

ALLSCAPE



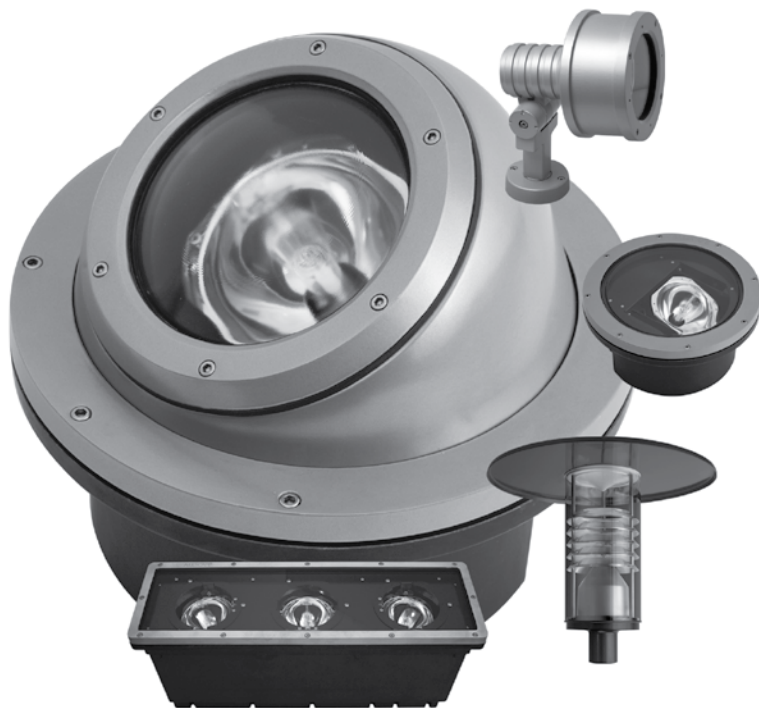
Catalog 2011

ALLSCAPE

LANDSCAPE LIGHTING BRILLIANCE

Company

At ALLSCAPE we strive to constantly create and deliver a versatile, comprehensive product range of pedestrian-scale architectural outdoor and landscape luminaries. These embody state-of-the-art photometric efficiency and operating economy with a long, trouble-free service life. ALLSCAPE boasts a team of skilled technicians and exceptional customer service personnel who take pride in their product, and in the way they serve a growing community of architects, lighting designers, and engineers around the world.



ALLSCAPE is a Philips group brand

PHILIPS

need help?

ALLSCAPE® **IN-GROUND**

home new product projects representatives solutions company contact us

Applications. Landscape lighting, architectural lighting, trees, flagpoles, columns, building accents, wallwash.

Main Features. Small 7" footprint with up to 70W integral ballast. Compression molded Rhinolite(TM) Composite housing, corrosion resistant in harsh lighting environments. Supplied with two 3/4" NPT conduit entrances and separated from the ballast compartment by the anti-wicking chamber hermetically sealed. The ballast compartment is sealed and also separated from the lamp compartment by another anti-wicking chamber.

Lamps. 100W INC/LV, 70W HID, 42W PLT, Titan 25WLED.

Other. A full range of flood, spot and wallwash optics available. The SL-23 Porthole option provides for above grade lighting.

SL-23

[overview](#)
[photo](#)
[specifications \(PDF\)](#)
[installation \(PDF\)](#)
[brochure \(PDF\)](#)
[AIM-SERIES \(PDF\)](#)
[LED Upgrade Kit](#)

LED in-ground step light pathway flood light building mount architectural area poles & brackets lamps & ballasts

On-Line Resource

The ALLSCAPE web site keeps you current with the latest product new releases, color brochures, specification sheets, installation sheets, photometrics, lighting solution tips and guidelines. The web site is designed to provide the information you need in just three clicks or less. The Company section now offers a Solution Center. The Solution Center provides information for the lighting community such as; information on products that provide energy efficient solutions, lighting articles, application photos with descriptions of the product used, videos, certification information and more.

Commitment

ALLSCAPE is committed to providing energy efficient lighting solutions to our customers. Our team of engineers are incorporating the latest low wattage HID, LED and solid state technology into our product range that provide for even more environmentally friendly lighting designs.



PRODUCT INDEX

In-ground

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SL-23



SL-23PH



SL-23HPBB



SL-24



SL-24PH



SL-25



SL-25PH



SL-26



SL-26PH



SL-29



SL-29HPBB



SL-33



SL-34



SL-42



SL-42PH



SL-43



SL-43PH



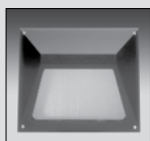
SL-43HPBB

Step Light

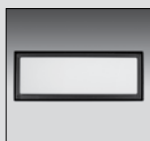
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SP-216



SP-217



SP-220

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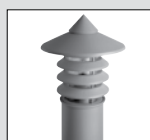
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LL-205-CLR



LL-205-CLL



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LL-205-CLB



LL-205-O



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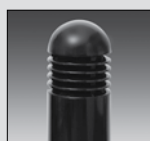
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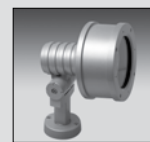
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FL-63

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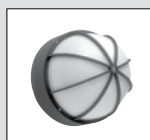
BL-25-30



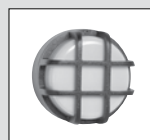
BL-26-31



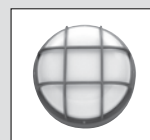
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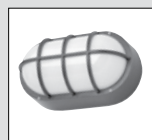
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BL-36-38



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BL-44



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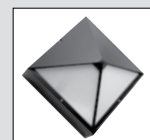
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Poles & Brackets

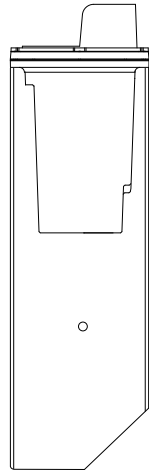
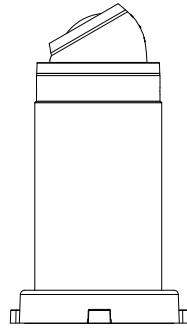
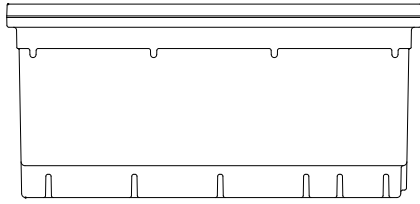
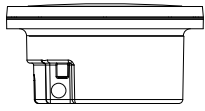
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IN-GROUND

Landscape Areas

Wall Wash

Flagpole Lighting

Building Accent

Driveway Marker

Sign Lighting



Specifications



Certifications ETL and CETL listed for wet location, direct burial, and concrete pour. Certified to IP65 and IP67 to ensure protection against the harshest environments. IEC compliant versions available, consult factory.

Lamp/Ballast Housing Compression molded Rhinolute™ composite material, structurally reinforced with glass fibers. Superior resistance to ultraviolet degradation and corrosion resistant in harsh environments. Trim Rng (TR) and Debris Cover (DC) supplied standard.

Splice Compartment Supplied with two 3/4" NPT conduit entrances. Connection to ballast compartment by way of anti-wicking device. Sealed with gasketed die cast aluminum cover plate. Suitable for through wiring.

Lens Standard 3/8" clear tempered flat borosilicate glass (F) or ADA anti slip and walkover clear tempered flat borosilicate glass (ADA). Flat lenses will withstand loads up to 200 PSI. Sealed to housing with high temperature injection molded silicone gasket. Optional linear spread lens also available.

Lens Frame Heavy duty die cast bronze lens frame is supplied as standard. Fastened to housing with six captive 10-24 stainless steel Allen cap screws.

Reflectors Spun aluminum highly specular Alzak™ finish for either NEMA type 1 or 2 spot (SPT) or NEMA type 3 or 4 flood (FLD) distributions. Field adjustable up to 25° tilt and 360° horizontal rotation. NOTE: Tilt adjustment varies by lamp type. A segmented fluorescent reflector is available for up to 42W lamps.

Lamp Holder Porcelain 4kv pulse rated medium base for HID and Incandescent lamp sources.

Options Cast aluminum Convex Rock Guard (CR), Directional Shield (DS), and Driveway Marker (DM). Internal Glare Shield (IGS), Internal Hex Cell Louver (HL), Glass Color Filter (GF), Grout Mask (GM), Die cast bronze Port Hole (PH).

Finish Housing Black (BK). Options can be painted in standard or custom colors. Powder Coat Standard.

Safety Caution: Care should be taken when specifying fixtures for use in pedestrian walkways to avoid problems that may be caused by high lens temperatures. Consult factory for more information.

Warning Caution: Care should be taken not to install in-ground fixtures in areas where water can stand for prolonged periods of time. Sufficient drainage must be provided to avoid problems. Consult factory for more information.

PROJECT
FIXTURE TYPE
CATALOG#



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

Product Order Guide

Series	Max Watts	Lamp Type	Voltage ⁶	Optics	Lens	Finish ⁶	Options
SL-23 Fluorescent							
26CFT		CFT ¹	120	SPT ¹	Spot	F ¹ Clear Flat	BK ⁶ Black DM ¹ Driveway Marker ^{2,5,7}
32CFT		CFT ¹	208		ADA ^{1,3}	ADA Walkover	BZ ⁶ Bronze CR ¹ Convex Rockguard ^{5,7}
42CFT		CFT ¹	240	WW ¹	Wallwash	LS ¹ Linear Spread	WH ⁶ White DS ¹ Directional Shield ^{5,7}
			277	FL ¹	Fluorescent		GR ⁶ Green PH ⁴ Porthole
High Pressure Sodium							
50HPS		E17 ¹		NFLD ¹	Narrow Flood	NA ⁶ Natural Alum	IGS ¹ Glare Shield
70HPS		E17 ¹		MFLD ¹	Medium Flood	GY ⁶ Gray HL	Hex Cell Louver
						CC ⁶ Custom Color	GF Glass Color Filter
							GM Grout Mask
							AHOT AIM-HOT™
							LFSS ¹ Stainless Steel Lens Frame
							STA ¹ Square Top Adaptor ^{5,7}
Metal Halide							
50MH		E17 ¹					
70MH		Par30 ^{1,8}					
39MH		Par20 ⁸					
70MH		E17 ¹					
70MH		T6 or T4 ¹					
35MH		R111 ^{1,8}					
20MH		BT5 ¹	120				
20MH		T4 ¹	120/277				
39MH		T6 or T4 ¹					
Incandescent/Halogen/Low Voltage							
75INC		Par30 ^{1,8}	120				
100INC		T4mini ¹	120				
50INC		Par20 ⁸	120				
75INC		MR16 ⁸	120/277/12				
50INC		AR111 ^{1,8}	120/277/12				
LED							
1X5	5WLED	CUS ^{1,9}	120-277	10,35,45	White (3050°K/ 4700°K)		
Titan	25WW	CUS3 ^{1,9}	120-277	25,45	Warm White (3050°K)		
Titan	25CW	CUS3 ^{1,9}	120-277	25,45	Cool (Daylight) White (4700°K)		

¹ Not available with the PH Porthole option, use Par20 or MR16 only.

CFT = triple biax

² The DM Driveway Marker can be used with any lamp option.

Note: E17 Lamps 150W and below are medium base

³ Use HPBB version if greater than 39W.

⁴ The PH Porthole option is supplied as standard in die cast bronze.

⁵ These options are supplied in heavy wall cast aluminum with baked enamel painted finish.

⁶ Consult factory for other voltages and finishes. Powder Coat Standard.

⁷ Consult factory for cast bronze options.

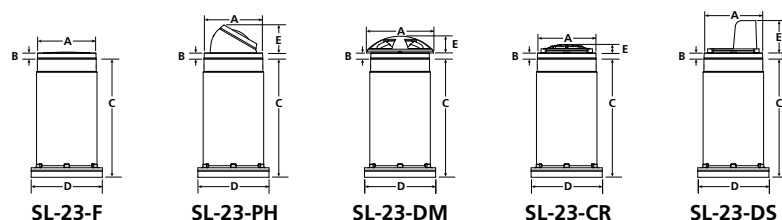
⁸ Does not require internal optics.

⁹ The CUS version uses a 5W Atlas from Lamina. The CUS3 uses a 25W Titan from Lamina with no tilt.

Example: SL-23-70MH-T6-277-SPT-F-BK-DS

Luminaire Dimensions

Luminaire	A		B		C		D		E		Weight	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
SL-23-F	6.95	177	0.75	19	14.10	358	8.50	216	n/a	n/a	19.0	8.6
SL-23-PH	6.95	177	0.75	19	14.10	358	8.50	216	3.35	85	21.0	9.5
SL-23-DM	8.00	203	0.75	19	14.10	358	8.50	216	2.00	51	21.0	9.5
SL-23-CR	6.95	177	0.75	19	14.10	358	8.50	216	1.00	25	19.5	8.8
SL-23-DS	6.95	177	0.75	19	14.10	358	8.50	216	3.85	98	20.0	9.1



Dual Lens for Cool Operation

Pedestrian Areas

Flagpole Lighting

Building Accent

Wall Wash

Sign Lighting



Specifications



Certifications

ETL and CETL listed for wet location, direct burial, concrete pour and is also listed for indoor usage. Certified to IP65 and IP67 to ensure protection against the harshest environments. IEC compliant versions available, consult factory.

Lamp/Ballast Housing

Compression molded Rhinolite™ composite material, structurally reinforced with glass fibers. Superior resistance to ultraviolet degradation and corrosion resistant in harsh environments. Trim Rng (TR) and Debris Cover (DC) supplied standard.

Splice Compartment

Supplied with two 3/4" NPT conduit entrances. Connection to ballast compartment by way of anti-wicking device. Sealed with gasketed die cast aluminum cover plate. Suitable for through wiring.

Dual Lens

External lens standard 3/8" clear tempered flat borosilicate glass (F) or ADA anti slip and walkover clear tempered flat borosilicate glass (ADA). Flat lenses will withstand loads up to 200 PSI. Sealed to housing with high temperature injection molded silicone gasket. Optional linear spread lens also available. Internal lens is 1/4" clear tempered flat soda-lime glass.

Lens Frame

Heavy duty die cast bronze lens frame is supplied as standard. Fastened to housing with six captive 10-24 stainless steel Allen cap screws.

Reflectors

Spun aluminum highly specular Alzak™ finish for either NEMA type 1 or 2 spot (SPT) or NEMA type 3 or 4 flood (FLD) distributions. Field adjustable up to 25° tilt and 360° horizontal rotation. NOTE: Tilt adjustment varies by lamp type.

Lamp Holder

Porcelain 4kv pulse rated medium base for HID and Incandescent lamp sources.

Options

Cast aluminum Convex Rock Guard (CR), and Directional Shield (DS). Internal Glare Shield (IGS), Internal Hex Cell Louver (HL), Glass Color Filter (GF), Clear Frosted Lens (CFL), Grout Mask (GM).

Finish

Housing Black (BK). Options can be painted in standard or custom colors. Powder Coat Standard.

Safety

Caution: Care should be taken when specifying fixtures for use in pedestrian walkways to avoid problems that may be caused by high lens temperatures. Consult factory for more information.

Warning

Caution: Care should be taken not to install in-ground fixtures in areas where water can stand for prolonged periods of time. Sufficient drainage must be provided to avoid problems. Consult factory for more information.

PROJECT
FIXTURE TYPE
CATALOG#

Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

SL-23HPBB

Product Order Guide

Series	Max Watts	Lamp Type	Voltage ²	Optics	Lens		Finish ^{1,6}		Options		
SL-23-HPBB											
	Metal Halide										
	39MH	Par20 ⁵	120	SPT	Spot	F	Clear Flat	BK ¹	Black	CR	Convex Rockguard ^{3,4}
	70MH	T6	208	NFLD	Narrow Flood	ADA	ADA Walkover	BZ ¹	Bronze	DS	Directional Shield ^{3,4}
	70MH	T4	240	MFLD	Medium Flood	LS	Linear Spread	WH ¹	White	HL	Hex Cell Louver
			277					GR ¹	Green	GF	Glass Color Filter
								NA ¹	Natural Alum	CFL	Clear Frosted Lens
	20MH	BT5	120					GY ¹	Gray	GM	Grout Mask
	20MH	T4	120/277					CC ¹	Custom Color	AHOT	AIM-HOT™
										LFSS	Stainless Steel Lens Frame
										STA	Square Top Adaptor ^{3,4}
	Incandescent/Halogen/Low Voltage										
	100INC	T4mini	120								
	50INC	Par20 ⁵	120								
	75INC	MR16 ⁵	120/277/12								

- ¹ Powder Coat Standard.
- ² Consult factory for other voltages and finishes.
- ³ Consult factory for cast bronze options.
- ⁴ These options are supplied in heavy wall cast aluminum.
- ⁵ Does not require internal optics

Note: E17 Lamps 150W and below are medium base

Example: SL-23-HPBB-70MH-T6-277-SPT-F

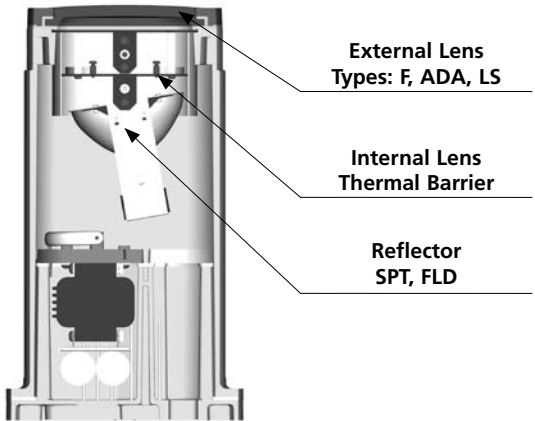
Luminaire Lens Temperatures

Luminaire	Center		Off-Center	
	°C	°F	°C	°F
SL-23-HPBB-70MH-T6-FLD	86°	187°	76°	177°
SL-23-HPBB-39MH-T6-FLD	64°	147°	61°	142°
SL-23-HPBB-20MH-BT5-FLD	52°	126°	50°	122°
SL-23-42CFT-FLD-GF ¹	63°	145°	60°	140°

Note: All temperatures are maximum relative to 25° C ambient.

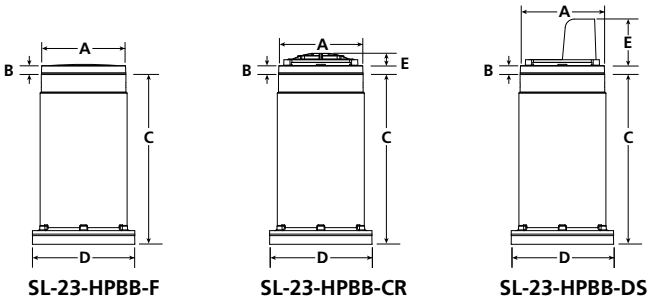
¹ 42CFT tested with clear filter only, no HPBB option

Consult factory for details of the temperature test and a copy of the test report.



Luminaire Dimensions

Luminaire	A		B		C		D		E		Weight	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
SL-23-HPBB-F	6.95	177	0.75	19	14.10	358	8.50	216	n/a	n/a	20.0	9.1
SL-23-HPBB-CR	6.95	177	0.75	19	14.10	358	8.50	216	1.00	25	20.5	9.3
SL-23-HPBB-DS	6.95	177	0.75	19	14.10	358	8.50	216	3.85	98	21.0	9.5



Landscape Areas

Wall Wash

Flagpole Lighting

Building Accent

Pedestrian Areas

Sign Lighting

Mini Bollards



Specifications



Certifications

ETL and CETL listed for wet location, direct burial, concrete pour and is also listed for indoor usage. Certified to IP65 and IP67 to ensure protection against the harshest environments. IEC compliant versions available, consult factory.

Lamp/Ballast Housing

Compression molded Rhinolite™ composite material, structurally reinforced with glass fibers. Superior resistance to ultraviolet degradation and corrosion resistant in harsh environments. The housing is attached to the mounting surface via a heavy duty sandcasting and three 3/8" socket or Allen cap screws (by others).

Splice Compartment

Supplied with two 3/4" NPT conduit entrances. Connection to ballast compartment by way of anti-wicking device. Sealed with gasketed die cast aluminum cover plate. Suitable for through wiring.

Lens

Standard 3/8" clear tempered flat borosilicate glass (F). Sealed to housing with high temperature injection molded silicone gasket. Optional linear spread lens also available.

Lens Frame

Heavy duty die cast bronze lens frame is supplied as standard. Fastened to housing with six captive 10-24 stainless steel Allen cap screws.

Reflectors

Spun aluminum highly specular Alzak™ finish for either NEMA type 1 or 2 spot (SPT) or NEMA type 3 or flood (FLD) distributions. Field adjustable up to 25° tilt and 360° horizontal rotation. NOTE: Tilt adjustment varies by lamp type. A segmented fluorescent reflector is available for up to 42W lamps.

Lamp Holder

Porcelain 4kv pulse rated medium base for HID and Incandescent lamp sources.

Options

Cast aluminum Convex Rock Guard (CR), Directional Shield (DS), and Driveway Marker (DM). Internal Glare Shield (IGS), Internal Hex Cell Louver (HL), Glass Color Filter, Die cast bronze Port Hole (PH).

Finish

Housing Black (BK). Options can be painted in standard or custom colors. Powder Coat Standard.


Safety

Caution: Care should be taken when specifying fixtures for use in pedestrian walkways to avoid problems that may be caused by high lens temperatures. Consult factory for more information.

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Product Order Guide

Product Order Guide											
Series	Max Watts	Lamp Type	Voltage ⁶	Optics		Lens		Finish ^{3,6}		Options	
SL-24	Fluorescent										
	26CFT	CFT ¹	120	SPT ¹	Spot	F ¹	Clear Flat	BK ³	Black	DM ¹	Driveway Marker ^{2,5,7}
	32CFT	CFT ¹	208			LS ¹	Linear Spread	BZ ³	Bronze	CR ¹	Convex Rockguard ^{5,7}
	42CFT	CFT ¹	240	FL ¹	Fluorescent			WH ³	White	DS ¹	Directional Shield ^{5,7}
			277	WW ¹	Wallwash			GR ³	Green	PH ⁴	Porthole
	High Pressure Sodium							NA ³	Natural Alum	IGS ¹	Glare Shield
	50HPS	E17 ¹		NFLD ¹	Narrow Flood			GY ³	Gray	HL	Hex Cell Louver
	70HPS	E17 ¹		MFLD ¹	Medium Flood			CC ³	Custom Color	GF	Glass Color Filter
										LFSS ¹	Stainless Steel Lens Frame
										AHOT	AIM-HOT™
										HPBB	see SL-23-HPBB options
	Metal Halide										
	50MH	E17 ¹									
	70MH	E17 ¹									
	70MH	Par30 ^{1,8}									
	39MH	Par20 ⁸									
	70MH	T6 or T4 ^{1,7}									
	35MH	R111 ^{1,8}									
	20MH	BT5 ¹	120								
20MH	T4 ¹	120/277									
39MH	T6 or T4 ^{1,7}										
Incandescent/Halogen/Low Voltage											
75INC	Par30 ^{1,8}	120									
100INC	T4mini ¹	120									
50INC	Par20 ⁸	120									
75INC	MR16 ⁸	120/277/12									
50INC	AR111 ^{1,8}	120/277/12									
LED											
1X5	5WLED	CUS ^{1,9}	120-277	10,35,45	White (3050°K/ 4700°K)						
Titan	25WW	CUS3 ^{1,9}	120-277	25,45	Warm White (3050°K)						
Titan	25CW	CUS3 ^{1,9}	120-277	25,45	Cool (Daylight) White (4700°K)						

¹ Not available with the PH Porthole option, use Par20 or MR16 only.

² The DM Driveway Marker can be used with any lamp option.

³ Powder Coat Standard.

⁴ The PH Porthole option is supplied as standard in die cast bronze.

⁵ These options are supplied in heavy wall cast aluminum.

⁶ Consult factory for other voltages and finishes.

⁷ Consult factory for cast bronze options.

⁸ Does not require internal optics.

⁹ The CUS version uses a 5W Atlas from Lamina.

The CUS3 uses a 25W Titan from Lamina with no tilt.

Note: E17 Lamps 150W and below are medium base

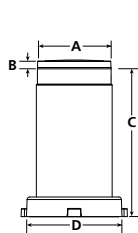
CFT = triple biax

Consult factory for updates.

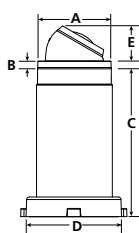
Example: SL-24-70MH-T6-277-SPT-F-BK

Luminaire Dimensions

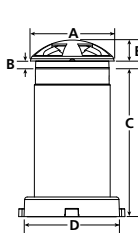
Luminaire	A		B		C		D		E		Weight	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
SL-24-F	6.95	177	0.75	19	14.10	358	9.10	231	n/a	n/a	21.0	9.5
SL-24-PH	6.95	177	0.75	19	14.10	358	9.10	231	3.35	85	23.0	10.4
SL-24-DM	8.00	203	0.75	19	14.10	358	9.10	231	2.00	51	23.0	10.4
SL-24-CR	6.95	177	0.75	19	14.10	358	9.10	231	1.00	25	21.5	9.8
SL-24-DS	6.95	177	0.75	19	14.10	358	9.10	231	3.85	98	22.0	10.0



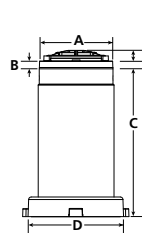
SL-24-F



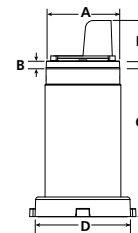
SL-24-PH



SL-24-DM



SL-24-CR



SL-24-DS

Above ground
Medians
Tree Lighting
Landscape Areas
Wall Wash
Building Accent
Sign Lighting



Specifications



Certifications

ETL and CETL listed for wet location, direct burial, and concrete pour. Certified to IP65 and IP67 to ensure protection against the harshest environments. IEC compliant versions available, consult factory.

Direct Burial Housing

6 5/8" diameter direct burial pipe with provision for anti-rotation device.

Lamp/Ballast Housing

Low copper heavy duty cast aluminum.

Splice Compartment

Supplied with two 3/4" NPT conduit entrances. Suitable for through wiring.

Lens

Standard 3/8" clear tempered flat borosilicate glass (F). Sealed to housing with high temperature injection molded silicone gasket. Optional linear spread lens available.

Lens Frame

Heavy duty die cast bronze lens frame is supplied as standard. Fastened to housing with six captive 10-24 stainless steel Allen cap screws.

Reflectors

Spun aluminum highly specular Alzak™ finish for either NEMA type 1 or 2 spot (SPT) or NEMA type 3 or 4 flood (FLD) distributions. Field adjustable up to 25° tilt and 360° horizontal rotation. NOTE: Tilt adjustment varies by lamp type. A segmented fluorescent reflector is available for up to 42W lamps.

Lamp Holder

Porcelain 4kv pulse rated for HID and Incandescent lamp sources.

Options

Cast aluminum Convex Rock Guard (CR), Directional Shield (DS), Internal Glare Shield (IGS), Internal Hex Cell Louver (HL), Glass Color Filter (GF), Die cast bronze Port Hole (PH).

Finish

Housing Black (BK). Options can be painted in standard or custom colors. Powder Coat Standard.

Safety

Caution: Care should be taken when specifying fixtures for use in pedestrian walkways to avoid problems that may be caused by high lens temperatures. Consult factory for more information.

Warning

Caution: Care should be taken not to install in-ground fixtures in areas where water can stand for prolonged periods of time. Sufficient drainage must be provided to avoid problems. Consult factory for more information.

PROJECT
FIXTURE TYPE
CATALOG#



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

Product Order Guide

Series	Max Watts	Lamp Type	Voltage ⁶	Optics	Lens	Finish ^{3,6}	DB ²	Options
SL-25 Fluorescent								
26CFT		CFT ¹	120	SPT ¹	Spot	F ¹ Clear Flat	BK ³ Black	DB-6" CR ¹ Convex Rockguard ^{5,7}
32CFT		CFT ¹	208		LS ¹ Linear Spread	BZ ³ Bronze	DB-12"	DS ¹ Directional Shield ^{5,7}
42CFT		CFT ¹	240	WW ¹ Wallwash		WH ³ White	DB-18"	PH ⁴ Porthole
			277	FL ¹ Fluorescent		GR ³ Green	DB-24"	IGS ¹ Glare Shield
High Pressure Sodium								
50HPS		E17 ¹		NFLD ¹ Narrow Flood		NA ³ Nat Alum	DB-30"	HL Hex Cell Louver
70HPS		E17 ¹		MFLD ¹ Medium Flood		GY ³ Gray		GF Glass Color Filter
						CC ³ Custom Color		LFSS ¹ Stainless Steel Lens Frame
								AHOT AIM-HOT™
Metal Halide								
50MH		E17 ¹						
70MH		E17 ¹						
70MH		Par30 ^{1,8}						
39MH		Par20 ⁸						
70MH		T6 or T4 ¹						
35MH		R111 ^{1,8}						
20MH		BT5 ¹	120					
20MH		T4 ¹	120/277					
39MH		T6 or T4 ¹						
Incandescent/Halogen/Low Voltage								
75INC		Par30 ^{1,8}	120					
100INC		T4mini ¹	120					
50INC		Par20 ⁸	120					
75INC		MR16 ⁸	120/277/12					
LED								
1X5 5WLED		CUS ^{1,9}	120-277		10,35,45	White (3050°K/ 4700°K)		
Titan 25WW		CUS3 ^{1,9}	120-277		25,45	Warm White (3050°K)		
Titan 25CW		CUS3 ^{1,9}	120-277		25,45	Cool (Daylight) White (4700°K)		

¹ Not available with the PH Porthole option, use Par20 or MR16 only.

² Height above grade All units include an extra 18" or 457mm of tube for direct burial.

³ Powder Coat Standard.

⁴ The PH Porthole option is supplied as standard in die cast bronze.

⁵ These options are supplied in heavy wall cast aluminum.

⁶ Consult factory for other voltages and finishes.

⁷ Consult factory for cast bronze options.

⁸ Does not require internal optics.

⁹ The CUS version uses a 5W Atlas from Lamina. The CUS3 uses a 25W Titan from Lamina with no tilt.

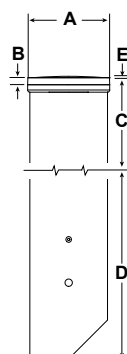
CFT = triple bias

Note: E17 Lamps 150W and below are medium base

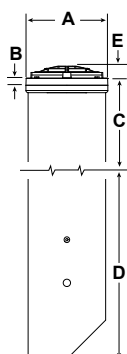
Example: SL-25-70MH-T6-277-SPT-F-BK-DB12-DS

Luminaire Dimensions

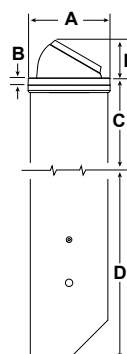
Luminaire	A		B		C		D		E		Weight	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
SL-25-F	6.95	177	0.75	19	30.00 max	762	18.00	457	n/a	n/a	25.0	11.3
SL-25-PH	6.95	177	0.75	19	30.00 max	762	18.00	457	3.35	85	28.0	12.7
SL-25-CR	6.95	177	0.75	19	30.00 max	762	18.00	457	1.00	25	25.0	11.3
SL-25-DS	6.95	177	0.75	19	30.00 max	762	18.00	457	3.85	98	25.0	11.3



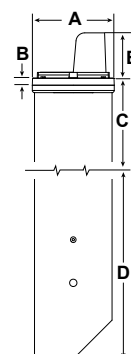
SL-25-F



SL-25-CR



SL-25-PH



SL-25-DS

Adjustable Above ground

Medians

Tree Lighting

Landscape Areas

Wall Wash

Building Accent

Sign Lighting



Specifications



Certifications ETL and CETL listed for wet location, direct burial, and concrete pour. Certified to IP65 and IP67 to ensure protection against the harshest environments. IEC compliant versions available, consult factory.

Direct Burial Housing 8 5/8" diameter direct burial pipe with provision for anti-rotation device.

Lamp/Ballast Housing Low copper heavy duty cast aluminum.

Splice Compartment Supplied with two 3/4" NPT conduit entrances. Suitable for through wiring.

Lens Standard 3/8" clear tempered flat borosilicate glass (F). Sealed to housing with high temperature injection molded silicone gasket. Optional linear spread lens available.

Lens Frame Heavy duty die cast bronze lens frame is supplied as standard. Fastened to housing with six captive 10-24 stainless steel Allen cap screws.

Reflectors Spun aluminum highly specular Alzak™ finish for either NEMA type 1 or 2 spot (SPT) or NEMA type 3 or 4 flood (FLD) distributions. Field adjustable up to 25° tilt and 360° horizontal rotation. NOTE: Tilt adjustment varies by lamp type. A segmented fluorescent reflector is available for up to 42W lamps.

Lamp Holder Porcelain 4kv pulse rated for HID and Incandescent lamp sources.


Options Cast aluminum Convex Rock Guard (CR), Directional Shield (DS), Internal Glare Shield (IGS), Internal Hex Cell Louver (HL), Glass Color Filter (GF), Die cast bronze Port Hole (PH).

Finish Housing Black (BK). Options can be painted in standard or custom colors. Powder Coat Standard.

Safety Caution: Care should be taken when specifying fixtures for use in pedestrian walkways to avoid problems that may be caused by high lens temperatures. Consult factory for more information.

Warning Caution: Care should be taken not to install in-ground fixtures in areas where water can stand for prolonged periods of time. Sufficient drainage must be provided to avoid problems. Consult factory for more information.

PROJECT
FIXTURE TYPE
CATALOG#

 Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

Product Order Guide

Product Order Guide	Series	Max Watts	Lamp Type	Voltage ⁶	Optics	Lens	Finish ^{3,6}	DB ²	Options	
SL-26	Fluorescent									
	26CFT	CFT ¹	120	SPT ¹	Spot	F ¹	Clear Flat	BK ³ Black	DB-10"	CR ¹ Convex Rockguard ^{5,7}
	32CFT	CFT ¹	208			LS ¹	Linear Spread	BZ ³ Bronze	DB-14"	DS ¹ Directional Shield ^{5,7}
	42CFT	CFT ¹	240	WW ¹	Wallwash			WH ³ White	DB-18"	PH ⁴ Porthole
			277	FL ¹	Fluorescent			GR ³ Green	DB-24"	IGS ¹ Glare Shield
	High Pressure Sodium									
	50HPS	E17 ¹		NFLD ¹	Narrow Flood			NA ³ Nat Alum		HL Hex Cell Louver
	70HPS	E17 ¹		MFLD ¹	Medium Flood			GY ³ Gray		GF Glass Color Filter
								CC ³ Custom Color		LFSS ¹ Stainless Steel Lens Frame
										AHOT AIM-HOT™
	Metal Halide									
	50MH	E17 ¹								
	70MH	E17 ¹								
	70MH	Par30 ^{1,8}								
	39MH	Par20 ⁸								
	39MH	T6 or T4 ¹								
	70MH	T6 or T4 ¹								
	35MH	R111 ^{1,8}								
	20MH	BT5 ¹	120							
	20MH	T4 ¹	120/277							
	Incandescent/Halogen/Low Voltage									
	75INC	Par30 ^{1,8}	120							
	100INC	T4mini ¹	120							
50INC	Par20 ⁸	120								
75INC	MR16 ⁸	120/277/12								
LED										
1X5	5WLED	CUS ^{8,9,10}	120-277	10,45	White (3050°K/ 4700°K)					
Titan	25WW	CUS ⁹	120-277	25,45	Warm White (3050°K)					
Titan	25CW	CUS ⁹	120-277	25,45	Cool (Daylight) White (4700°K)					

¹ Not available with the PH Porthole option, use Par20 or MR16 only.

² Height above grade. All units include an extra 18" or 457mm of tube for direct burial.

³ Powder coat standard.

⁴ The PH Porthole option is supplied as standard in die cast bronze.

⁵ These options are supplied in heavy wall cast aluminum.

⁶ Consult factory for other voltages and finishes.

⁷ Consult factory for cast bronze options.

⁸ Does not require internal optics.

⁹ The CUS version uses a 5W Atlas from Lamina. The CUS3 uses a 25W Titan from Lamina with no tilt.

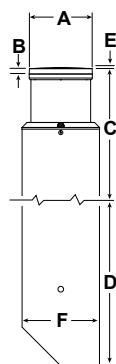
CFT = triple biax

Note: E17 Lamps 150W and below are medium base

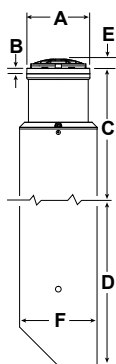
Example: SL-26-70MH-T6-277-SPT-F-BK-DB10-DS

Luminaire Dimensions

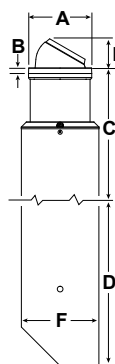
Luminaire	A		B		C		D		E		F		Weight	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
SL-26-F	6.95	177	0.75	19	10.00 min	254	18.00	457	n/a	n/a	8.62	219	37	17.8
SL-26-PH	6.95	177	0.75	19	14.00 min	355	18.00	457	3.35	85	8.62	219	40	18.1
SL-26-CR	6.95	177	0.75	19	18.00 min	457	18.00	457	1.00	25	8.62	219	37	17.8
SL-26-DS	6.95	177	0.75	19	24.00 min	609	18.00	457	3.85	98	8.62	219	37	17.8



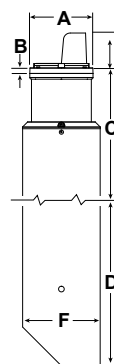
SL-26-F



SL-26-CR



SL-26-PH



SL-26-DS

Size	C min	C max
-10"	10"	20"
-14"	14"	28"
-18"	18"	38"
-24"	24"	48"

Landscape Areas

Wall Wash

Color LED Lighting

Flagpole Lighting

Building Accent

Pedestrian Areas

Sign Lighting

Accent Lighting



Specifications



Certifications ETL and CETL listed for wet location, direct burial, concrete pour and is also listed for indoor usage. Certified to IP65 and IP67 to ensure protection against the harshest environments. IEC compliant versions available, consult factory.

Lamp/Ballast Housing Compression molded Rhinolite™ composite material, structurally reinforced with glass fibers. Superior resistance to ultraviolet degradation and corrosion resistant in harsh environments. Trim Rng (TR) and Debris Cover (DC) supplied standard, unless the Soil Installation Kit selected (SIK).

Splice Compartment Supplied with two 3/4" NPT conduit entrances. Connection to ballast compartment by way of anti-wicking chamber. Sealed with gasketed die cast aluminum cover plate. Suitable for through wiring.

Lens Standard 3/4" clear tempered flat soda-lime glass (F) or ADA anti slip and walkover clear tempered flat soda-lime glass (ADA). Flat lenses will withstand loads up to 200 PSI. Sealed to housing with high temperature injection molded silicone gasket.

Lens Frame Heavy duty die cast bronze lens frame is supplied as standard. Fastened to housing with twelve captive 10-24 stainless steel Allen cap screws.

Reflectors Spun aluminum highly specular Alzak™ finish for either NEMA type 1 or 2 spot (SPT) or NEMA type 3 or 4 flood (FLD) distributions. Field adjustable up to 25° tilt and 360° horizontal rotation. NOTE: Tilt adjustment varies by lamp type. An asymmetric fluorescent reflector is available for one or two T5HO lamps. Multiple LED options available.

Lamp Holder Porcelain 4kv pulse rated for HID and Incandescent lamp sources.

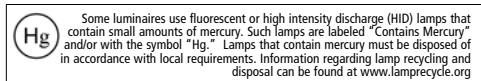
Options Directional Shield (DS), Grout Mask (GM), Internal Glare Shield (IGS), Internal Hex Cell Louver (HL), Glass Color Filter (GF).

Finish Housing Black (BK). Options can be painted in standard or custom colors. Powder Coat Standard.

Safety Caution: Care should be taken when specifying fixtures for use in pedestrian walkways to avoid problems that may be caused by high lens temperatures. Consult factory for more information.

Warning Caution: Care should be taken not to install in-ground fixtures in areas where water can stand for prolonged periods of time. Sufficient drainage must be provided to avoid problems. Consult factory for more information.

PROJECT
FIXTURE TYPE
CATALOG#



SL-29 TRIO

Product Order Guide

Series	Max Watts	Lamp Type	Voltage ¹	Optics	Lens	Finish ^{1,2}	Options
SL-29 Fluorescent							
24FL		T5HO	120	ASYM Asymmetric	F Clear Flat	BK ² Black	DS Directional Shield ³
2X24FL		T5HO	208		ADA ⁸ Walkover	BZ ² Bronze	IGS Glare Shield
			240			WH ² White	HL Hex Cell Louver
3X42CFT		CFT	277	FL Fluorescent		GR ² Green	GF Glass Color Filter
						NA ² Natural Alum	GM Grout Mask
						GY ² Gray	LFSS Stainless Steel Lens Frame
						CC ² Custom Color	ISW Independent Switching
Metal Halide							
3X20MH		BT5 ⁶	120	SPT Spot			AHOT ⁶ AIM-HOT™
3X20MH		T4 ⁶	120/277	NFLD Narrow Flood			DIM Dimmable 39WMH only
3X39MH		T6 ⁶		MFLD Medium Flood			SIK ⁷ Soil Installation Kit
2X70MH		T6 ⁶					
3X20MH		HID-MR16 ⁴					
3X39MH		PAR20 ⁴					
3X39MH		PAR30 ⁴					
2X70MH		PAR30 ⁴					
LED							
3X18WRGB	CUS3 ⁵	120 ¹	10,28		RGB (requires control system), Consult Factory		
3XTitan25WW	CUS3 ⁵	120-277	10,25,45		Warm White (3050K)		
3XTitan25CW	CUS3 ⁵	120-277	10,25,45		Cool (Daylight) White (4700K)		

¹ Consult factory for other voltages and finishes.

² Powder Coat Standard.

³ These options are supplied in heavy wall cast aluminum.

⁴ Does not require internal optics.

⁵ The CUS3 uses a 25W Titan from Lamina or 18W RGB led from Philips Solid State.

⁶ AIM-HOT™ can be used with the T6, T4, BT5 spot, narrow flood and medium flood optical packages.

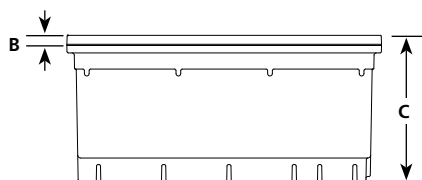
⁷ Required for soil or hollow floor installation.

⁸ Valid only for T5HO and LED only.

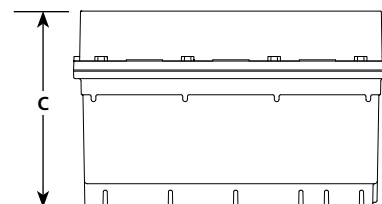
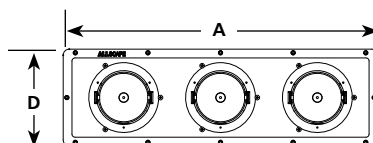
Example: SL-29-3X39MH-T6-277-SPT-F-BK-DS

Luminaire Dimensions

Luminaire	A		B		C		D		Weight	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
SL-29HPBB-F	26.00	660	0.75	19	12.10	307	8.00	203	38	17.2
SL-29HPBB-DS	26.00	660	0.75	19	16.30	414	8.00	203	41	18.6



SL-29-F



SL-29-DS

Dual Lens for Cool Operation

Pedestrian Areas

Flagpole Lighting

Building Accent

Wall Wash

Sign Lighting

Landscape Areas



Specifications



Certifications

ETL and CETL listed for wet location, direct burial, concrete pour and is also listed for indoor usage. Certified to IP65 and IP67 to ensure protection against the harshest environments. IEC compliant versions available, consult factory.

Lamp/Ballast Housing

Compression molded Rhinolite™ composite material, structurally reinforced with glass fibers. Superior resistance to ultraviolet degradation and corrosion resistant in harsh environments. Trim Rng (TR) and Debris Cover (DC) supplied standard, unless the Soil Installation Kit selected (SIK).

Splice Compartment

Supplied with two 3/4" NPT conduit entrances. Connection to ballast compartment by way of anti-wicking chamber. Sealed with gasketed die cast aluminum cover plate. Suitable for through wiring.

Dual Lens

External lens standard 3/4" clear tempered flat soda-lime glass (F), or ADA anti slip and walkover clear tempered flat soda-lime glass (ADA). Flat lenses will withstand loads up to 100 PSI. Sealed to housing with high temperature injection molded silicone gasket. Internal temperature barrier lens is 1/4" clear tempered flat soda-lime glass.

Lens Frame

Heavy duty die cast bronze lens frame is supplied as standard. Fastened to housing with twelve captive 10-24 stainless steel Allen cap screws.

Reflectors

Spun aluminum highly specular Alzak™ finish for either NEMA type 1 or 2 spot (SPT) or NEMA type 3 or 5 flood (FLD) distributions. Field adjustable up to 25° tilt and 360° horizontal rotation. NOTE: Tilt adjustment varies by lamp type.

Lamp Holder

Porcelain 4kv pulse rated for HID and Incandescent lamp sources.

Options

Directional Shield (DS), Grout Mask (GM), Internal Glare Shield (IGS), Internal Hex Cell Louver (HL), Glass Color Filter (GF).

Finish

Housing Black (BK). Options can be painted in standard or custom colors. Powder Coat Standard.


Safety

Caution: Care should be taken when specifying fixtures for use in pedestrian walkways to avoid problems that may be caused by high lens temperatures. Consult factory for more information.

Warning

Caution: Care should be taken not to install in-ground fixtures in areas where water can stand for prolonged periods of time. Sufficient drainage must be provided to avoid problems. Consult factory for more information.

PROJECT
FIXTURE TYPE
CATALOG#



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

SL-29HPBB

Product Order Guide

Series	Max Watts	Lamp Type	Voltage ¹	Optics		Lens		Finish ^{1,2}		Options			
SL-29	Metal Halide												
HPBB	3X39MH	PAR20 ⁴	120	SPT	Spot	F	Clear Flat	BK ²	Black	DS	Directional Shield ³		
	3X39MH	T6 ⁵	208	NFLD	Narrow Flood	ADA	ADA Walkover	BZ ²	Bronze	IGS	Glare Shield		
			240					WH ²	White	HL	Hex Cell Louver		
			277					MFLD	Medium Flood	GR ²	Green	GF	Glass Color Filter
										NA ²	Natural Alum	GM	Grout Mask
	3X20MH	HID-MR16 ⁴			GY ²	Gray	AHOT ⁵	AIM-HOT™					
	3X20MH	BT5 ⁵	120		CC ²	Custom Color	LFSS	Stainless Steel Lens Frame					
	3X20MH	T4 ⁵	120/277					ISW	Independent Switching				
								DIM	Dimmable 39WMH only				
								SIK ⁶	Soil Install Kit				
¹ Consult factory for other voltages and finishes.													

¹ Consult factory for other voltages and finishes.

² Powder Coat Standard.

³ These options are supplied in heavy wall cast aluminum.

⁴ Does not require internal optics.

⁵ AIM-HOT™ can be used with the T6, T4, BT5 spot, narrow flood and medium flood optical packages.

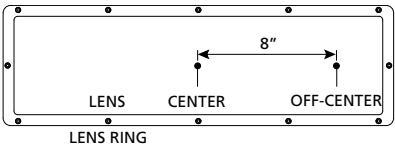
⁶ Required for soil or hollow floor installation.

Example: SL-29HPBB-3X20MH-T4-277-SPT-F

LENS TEMPERATURE TEST

Luminaire Lens Temperatures

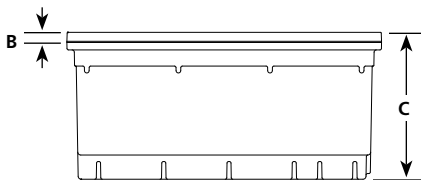
Luminaire	Center		Off-Center		Ambient	
	°C	°F	°C	°F	°C	°F
SL-29-HPBB-3X39MH-T6-FLD	82°	180°	75	167°	25°	77°
SL-29-HPBB-3X39MH-T6-SPT	78°	176°	72	164°	25°	77°
SL-29-HPBB-3X22MH-BT5-FLD	70°	158°	59°	138°	25°	77°
SL-29-HPBB-3X22MH-BT5-SPT	66°	154°	56°	135°	25°	77°
SL-29-2X24FL-T5HO-ASYM	45°	113°	44°	111	25°	77°



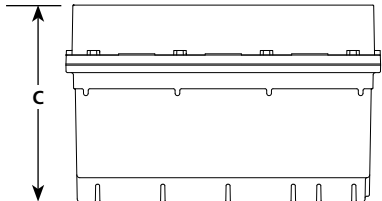
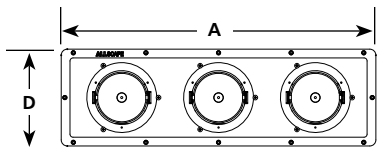
Note: Consult factory for details of the temperature test and a copy of the test report.

Luminaire Dimensions

Luminaire	A		B		C		D		Weight	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
SL-29-HPBB-F	26.00	660	0.75	19	12.10	307	8.00	203	41	18.6
SL-29-HPBB-DS	26.00	660	0.75	19	16.30	414	8.00	203	44	20.0



SL-29-HPBB-F



SL-29-HPBB-DS

Landscape Areas

Wall Wash

Flagpole Lighting

Building Accent

Driveway Marker

Sign Lighting



Specifications



Certifications

ETL and CETL listed for wet location, direct burial, and concrete pour. Certified to IP65 and IP67 to ensure protection against the harshest environments. IEC compliant versions available, consult factory.

Lamp/Ballast Housing

Compression molded Rhinolite™ composite material, structurally reinforced with glass fibers. Superior resistance to ultraviolet degradation and corrosion resistant in harsh environments. Trim Ring (TR) and Debris Cover (DC) supplied standard.

Splice Compartment

Supplied with two 3/4" NPT conduit entrances. Connection to ballast compartment by way of anti-wicking chamber. Sealed with gasketed aluminum cover plate. Suitable for through wiring.

Lens

Standard 7/16" clear tempered flat borosilicate glass (F). All flat lenses will withstand loads up to 200 PSI. Sealed to housing with high temperature injection molded silicone gasket. Optional flat ADA anti slip and walkover lens (ADA), flat wall wash lens (WW) and 1/4" clear tempered convex borosilicate glass lens (C).

Lens Frame

Heavy duty die cast bronze lens frame is supplied as standard. Fastened to housing with six captive 10-24 stainless steel Allen cap screws.

Reflectors

Spun aluminum highly specular Alzak™ finish for either NEMA type 2 spot (SPT) or NEMA type 3 flood (FLD) distributions. Field adjustable up to 15° tilt and 360° horizontal rotation. NOTE: Tilt adjustment varies by lamp type. Optional field adjustable reflector from flood-to-spot (FSR). A segmented fluorescent reflector is available for up to 42W lamps.

Lamp Holder

Porcelain 4kv pulse rated medium base for HID and Incandescent lamp sources.

Options

Cast aluminum Convex Rock Guard (CR), Directional Shield (DS), Glare Shield (GS), Directional Louver (DL), and Driveway Marker (DM). Internal Glare Shield (IGS), Internal Hex Cell Louver (HL), Glass Color Filter (GF), Grout Mask (GM), Debris Cover (DC).

Finish

Housing Black (BK). Options can be painted in standard or custom colors. Powder Coat Standard.


Safety

Caution: Care should be taken when specifying fixtures for use in pedestrian walkways to avoid problems that may be caused by high lens temperatures. Consult factory for more information.

Warning

Caution: Care should be taken not to install in-ground fixtures in areas where water can stand for prolonged periods of time. Sufficient drainage must be provided to avoid problems. Consult factory for more information.

PROJECT
FIXTURE TYPE
CATALOG#

 Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

Product Order Guide

Series	Max Watts	Lamp Type	Voltage ⁴	Optics	Lens	Finish ⁴	Options
SL-33	Fluorescent						
	26CFT	CFT	120	SPT Spot	F ⁸ Clear Flat	BK Black	DM Driveway Marker ³
	32CFT	CFT	208	FLD Flood	ADA ¹⁰ Walkover	BZ Bronze	CR Convex Rockguard ³
	42CFT ¹	CFT	240	FL Fluorescent	LS Linear Spread	WH White	DS Directional Shield ³
			277	WW ⁹ Wall Wash	C ⁸ Convex	GR Green	GS Glare Shield ³
	High Pressure Sodium						
	50HPS	E17				NA Nat Alum	DL Directional Louver ^{3,7}
	70HPS	E17				GY Gray	HL Hex Cell Louver
						CC Cust Color	IGS Internal Glare Shield T6 only
	Metal Halide						
	50MH	E17					GF Glass Color Filter ⁸
	70MH	E17					GM Grout Mask
	70MH	Par30 ⁵					LFSS Stainless Steel Lens Frame
	35MH	R111					STA Square Top Adaptor ³
	39MH	T6 or T4					FSR Field Adjustable Flood to Spot Reflector ⁶
	70MH	T6 or T4					
	39MH	Par20 ⁵					
	20MH	BT5	120				
	20MH	T4	120/277				
	Incandescent/Halogen/Low Voltage						
	75INC	Par38 ⁵	120				
	75INC	Par30 ⁵	120				
	50INC	Par20 ⁵	120				
	75INC	MR16 ⁵	120/277/12				
	50INC	AR111 ⁵	120				

LED

Titan25WW	CUS3 ¹¹	120-277	10,25,45
Titan25CW	CUS3 ¹¹	120-277	10,25,45

Warm White (3050K)
Cool (Daylight) White (4700K)

Note: E17 Lamps 150W and below are medium base

CFT = triple biax

¹ 42CFT works with convex lens only

² The DM Driveway Marker can be used with any lamp option up to 39W.

³ These options are supplied in heavy wall cast aluminum

⁴ Consult factory for other voltages and finishes.

⁵ Does not require internal optics.

⁶ Works with E17, T6, T4 and BT5 lamps only

⁷ DL works with flat lens only

⁸ GF Not available with 42CFT lamping.

⁹ WW optic includes a LS lens.

¹⁰ 39W max with ADA lens.

¹¹ The CUS3 uses a 25W Titan from Lamina.



DM

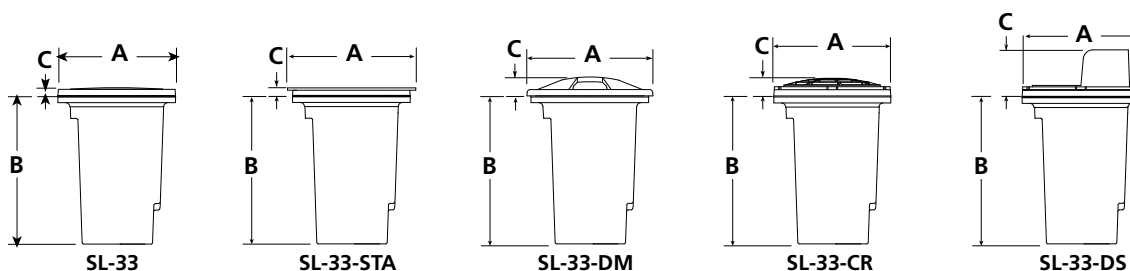


STA

Example: SL-33-70MH-E17-277-SPT-F-BK

Luminaire Dimensions

Luminaire	A		B		C		Weight	
	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
SL-33	8.75	222	11.32	287	1.43	37	15	6.8
SL-33-STA	10.00	254	11.32	287	1.64	42	15	6.8
SL-33-DM	10.00	254	11.32	287	1.50	38	17	7.7
SL-33-CR	8.75	222	11.32	287	1.12	29	15	6.8
SL-33-DS	8.75	222	11.32	287	5.30	135	16	7.3



Above ground lighting at it's best

Medians

Tree Lighting

Landscape Areas

Wall Wash

Building Accent

Sign Lighting



Specifications



Certifications

ETL and CETL listed for wet location, direct burial, and concrete pour. Certified to IP65 and IP67 to ensure protection against the harshest environments. IEC compliant versions available, consult factory.

Direct Burial Housing

8" diameter direct burial pipe with provision for anti-rotation device.

Lamp/Ballast Housing

Compression molded Rhinolite™ composite material, structurally reinforced with glass fibers. Superior resistance to ultraviolet degradation and corrosion resistant in harsh environments.

Splice Compartment

Supplied with two 3/4" NPT conduit entrances. Connection to ballast compartment by way of anti-wicking chamber. Sealed with gasketed aluminum cover plate. Suitable for through wiring.

Lens

Standard 7/16" clear tempered flat borosilicate glass (F). All flat lenses will withstand loads up to 200 PSI. Sealed to housing with high temperature injection molded silicone gasket. Optional, flat wall wash lens (WW) and 1/4" clear tempered convex borosilicate glass lens (C).

Lens Frame

Heavy duty die cast bronze lens frame is supplied as standard. Fastened to housing with six captive 10-24 stainless steel Allen cap screws.

Reflectors

Spun aluminum highly specular Alzak™ finish for either NEMA type 2 spot (SPT) or NEMA type 3 flood (FLD) distributions. Field adjustable up to 15° tilt and 360° horizontal rotation. NOTE: Tilt adjustment varies by lamp type. Optional field adjustable reflector from flood-to-spot (FSR). A segmented fluorescent reflector is available for up to 42W lamps.

Lamp Holder

Porcelain 4kv pulse rated medium base for HID and Incandescent lamp sources.

Options

Cast aluminum Convex Rock Guard (CR), Directional Shield (DS), Glare Shield and (GS), Directional Louver (DL). Internal Glare Shield (IGS), Internal Hex Cell Louver (HL), Glass Color Filter (GF).

Finish

Housing Black (BK). Options can be painted in standard or custom colors. Powder Coat Standard.


Safety

Caution: Care should be taken when specifying fixtures for use in pedestrian walkways to avoid problems that may be caused by high lens temperatures. Consult factory for more information.

Warning

Caution: Care should be taken not to install in-ground fixtures in areas where water can stand for prolonged periods of time. Sufficient drainage must be provided to avoid problems. Consult factory for more information.

PROJECT
FIXTURE TYPE
CATALOG#

 Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

Product Order Guide

Series	Max Watts	Lamp Type	Voltage ⁴	Optics	Lens ¹⁰	Finish ⁴	DB ²	Options
SL-34	Fluorescent							
	26CFT ¹	CFT	120	SPT Spot	F ⁸ Clear Flat	BK Black	DB-6"	LFSS Stainless Steel Lens Frame
	32CFT ¹	CFT	208	FLD Flood	LS Linear Spread	BZ Bronze	DB-12"	CR Convex Rockguard ³
	42CFT ¹	CFT	240	FL Fluorescent	C ⁸ Convex	WH White	DB-18"	DS Directional Shield ³
			277	WW ⁹ Wall Wash		GR Green	DB-24"	GS Glare Shield ³
						GY Gray	DB-30"	DL Directional Louver ^{3,7}
						NA Nat Alum		HL Hex Cell Louver
						CC Cust Color		IGS Internal Glare Shield T6 only
								GF Glass Color Filter ⁸
								FSR Field Adjustable Flood to Spot Reflector ⁶
	High Pressure Sodium							
	50HPS	E17						
	70HPS	E17						
	Metal Halide							
	50MH	E17						
	70MH	E17						
	70MH	Par30 ⁵						
	39MH	Par20 ⁵						
	39MH	T6 or T4						
	70MH	T6 or T4						
	35MH	R111						
	20MH	BT5	120					
	20MH	T4	120/277					
	Incandescent/Halogen/Low Voltage							
	75INC	Par38 ⁵	120					
	75INC	Par30 ⁵	120					
	50INC	Par20 ⁵	120					
	75INC	MR16 ⁵	120/277/12					
	50INC	AR111 ⁵	120					

LED

Titan25WW	CUS3 ¹⁰	120-277	10,25,45	Warm White (3050K)
Titan25CW	CUS3 ¹⁰	120-277	10,25,45	Cool (Daylight) White (4700K)

Note: E17 Lamps 150W and below are medium base.

CFT = triple biax

¹ 42CFT works with convex lens only

² Height above grade. All units include an extra 18" or 457mm of tube for direct burial.

³ These options are supplied in heavy wall cast aluminum

⁴ Consult factory for other voltages and finishes.

⁵ Does not require internal optics.

⁶ Works with E17, T6, T4 and BT5 lamps only.

⁷ DL works with flat lens only.

⁸ GF Not available with 42CFT.

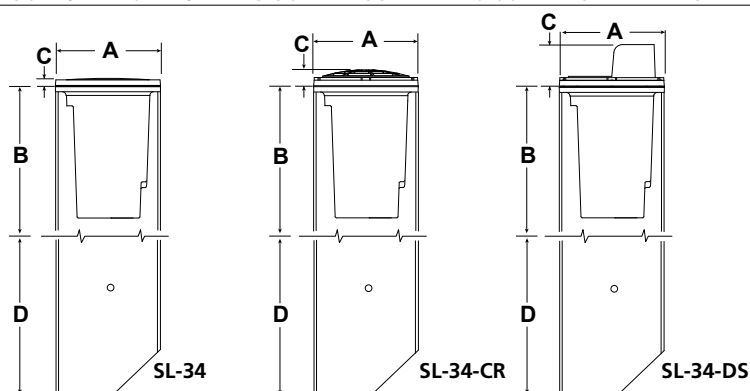
⁹ WW optic includes a LS lens.

¹⁰ The CUS3 uses a 25W Titan from Lamina.

Example: SL-34-70MH-E17-277-SPT-F-BK-DB-12-DS

Luminaire Dimensions

Luminaire	A		B		C		D		Weight	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
SL-34	8.75	222	30 max	762 max	1.43	37	18.00	457	31	14.1
SL-33-CR	8.75	222	30 max	762 max	2.55	65	18.00	457	31	14.1
SL-33-DS	8.75	222	30 max	762 max	5.30	135	18.00	457	32	14.5



Restricted Depth Applications

Interior Applications

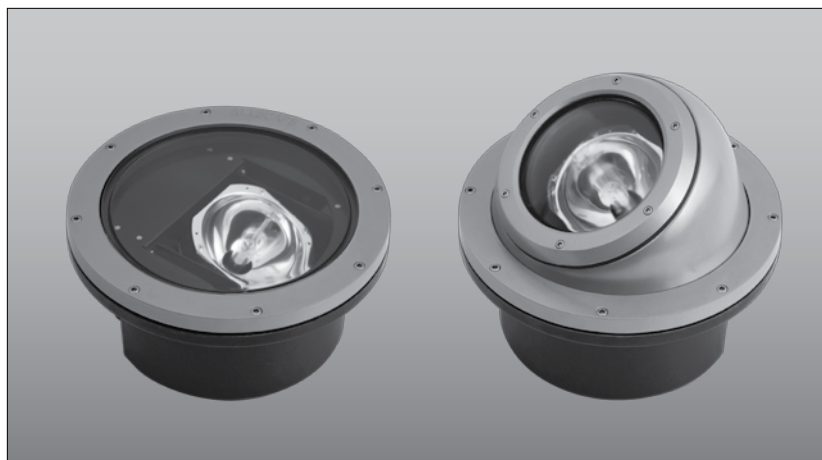
Landscape Areas

Building Accent

Pedestrian Areas

Driveway Marker

Sign Lighting



SL-42

SL-42-PH

Specifications



Certifications

ETL and CETL listed for wet location, direct burial, concrete pour and is also listed for indoor usage. Certified to IP65 and IP67 to ensure protection against the harshest environments. IEC compliant versions available, consult factory.

Lamp/Ballast Housing

Compression molded Rhinolite™ composite material, structurally reinforced with glass fibers. Superior resistance to ultraviolet degradation and corrosion resistant in harsh environments. Trim Rng (TR) and Debris Cover (DC) supplied standard.

Splice Compartment

Supplied with two 3/4" NPT conduit entrances. Connection to ballast compartment by way of anti-wicking chamber. Sealed with gasketed die cast aluminum cover plate. Suitable for through wiring.

Lens

Standard 7/16" clear tempered flat borosilicate glass (F) or ADA anti-slip and walkover clear tempered flat borosilicate glass (ADA). Flat lenses will withstand loads up to 200 PSI. Sealed to housing with high temperature injection molded silicone gasket. Optional linear and radial spread lenses also available.

Lens Frame

Heavy duty die cast bronze lens frame is supplied as standard. Fastened to housing with eight captive 1/4-20 stainless steel allen cap screws.

Reflectors

Spun aluminum highly specular Alzak™ finish for either NEMA type 1, or 2 spot (SPT) or NEMA type 3 or 5 flood (FLD) distributions. Field adjustable up to 25° tilt and +/- 45° horizontal rotation.

Lamp Holder

Porcelain 4kv pulse rated for HID lamp sources.

Options

Cast aluminum Convex Rock Guard (CR), Directional Shield (DS), and Driveway Marker (DM). Internal Hex Cell Louver (HL), Glass Color Filter (GF), Grout Mask (GM), Debris Cover (DC), Die cast bronze Port Hole (PH).

Finish

Housing Black (BK). Options can be painted in standard or custom colors. Powder Coat Standard.


Safety

Caution: Care should be taken when specifying fixtures for use in pedestrian walkways to avoid problems that may be caused by high lens temperatures. Consult factory for more information.

Warning

Caution: Care should be taken not to install in-ground fixtures in areas where water can stand for prolonged periods of time. Sufficient drainage must be provided to avoid problems. Consult factory for more information.

PROJECT
FIXTURE TYPE
CATALOG#

 Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

Product Order Guide

Series	Max Watts	Lamp Type	Voltage ⁸	Optics	Lens	Finish ⁹	Options
SL-42	Fluorescent						
	26CFT	CFT	120	FL ¹	Fluorescent F ¹	Clear Flat	BK ⁵ Black
	32CFT ²	CFT	208	FL ¹	Fluorescent ADA ¹	ADA Walkover	BZ ⁵ Bronze
	42CFT ²	CFT	240	FL ¹	Fluorescent LS ¹	Linear Spread	WH ⁵ White
			277	SPT ¹	Spot RS ¹	Radial Spread	GR ⁵ Green
	Metal Halide						
	39MH	T4	120	NFLD ¹	Flood		NA ⁵ Natural Aluminum
	39MH	T6	120/277	MFLD ¹	Flood		GY ⁵ Gray
	20MH	BT5					CC ⁵ Custom Color
	20MH	T4					
	20MH	HID-MR16 ¹⁰					
	39MHmax	Par20 ¹⁰					
	39MHmax	R111 ¹⁰					
							DM ¹ Driveway Marker ^{4,7}
							CR ¹ Convex Rockguard ⁷
							DS ¹ Directional Shield ⁷
							PH ⁶ Porthole
							HL Hex Cell Louver
							GF Glass Color Filter
							LFSS Stainless Steel Lens
							GM Frame Grout Mask
							IGS ^{1,11} Internal Glare Shield
							HPBB Cool Lens

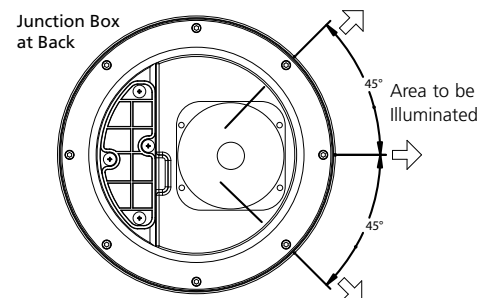
THESE SELECTIONS PORTHOLE ONLY

39MH ³	Par20	PHSPT	Porthole Spot ³
70MH ³	T6	PHFLD	Porthole Flood ³
70MH ³	T4	PHFL	Porthole Fluorescent ³
70MH ³	Par30		
70MH ³	R111		

Incandescent

75max MR16¹⁰LED¹²

1X5WLED CUS 120 10,30,45 White (WW - 3050K, DW - 4700K)

¹ These selections are not available with the PH Porthole option.² 26 CFT max for Porthole. Comes with wall wash lens on non-Porthole versions.³ Porthole Only.⁴ The DM Driveway Marker is limited to MR16 and HID-MR16 flood lamps.⁵ Powder coat paint standard.⁶ The PH Porthole option is supplied as standard in sandblasted bronze.⁷ These options are supplied in heavy wall cast aluminum.⁸ Consult factory for other voltages.⁹ Consult factory for other finishes.¹⁰ Does not require internal optics.¹¹ The IGS works with the T6, T4 and BT5 lamp types only.¹² The CUS version uses a 5W Atlas from Lamina.

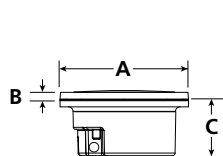
SL-42 Aiming Direction

Note: CFT = triple biax

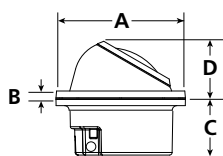
Example: SL-42-39MH-T6-277-SPT-F-DS-BK

Luminaire Dimensions

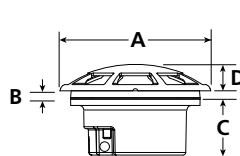
Luminaire	A		B		C		D		Weight	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
SL-42-F	12.25	311	0.80	20	5.10	130	N/A	N/A	15	6.8
SL-42-PH	12.25	311	0.80	20	5.10	130	5.50	140	22	10.0
SL-42-DM	14.30	363	0.80	20	5.10	130	2.50	64	23	10.4
SL-42-CR	12.25	311	0.80	20	5.10	130	1.20	30	16	7.3
SL-42-DS	12.25	311	0.80	20	5.10	130	4.20	107	17	7.7



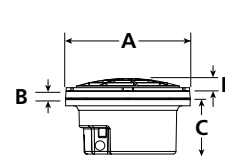
SL-42-F



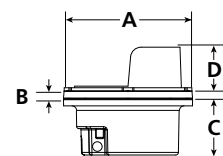
SL-42-PH



SL-42-DM



SL-42-CR



SL-42-DS

Landscape Areas

Wall Wash

Flagpole Lighting

Building Accent

Driveway Marker

Sign Lighting



Specifications



Certifications

ETL and CETL listed for wet location, direct burial, and concrete pour. Certified to IP65 and IP67 to ensure protection against the harshest environments. IEC compliant versions available, consult factory.

Lamp/Ballast Housing

Compression molded Rhinolite™ composite material, structurally reinforced with glass fibers. Superior resistance to ultraviolet degradation and corrosion resistant in harsh environments. Trim Rng (TR) and Debris Cover (DC) supplied standard.

Splice Compartment

Supplied with two 3/4" NPT conduit entrances. Connection to ballast compartment by way of anti-wicking chamber. Sealed with gasketed die cast aluminum cover plate. Suitable for through wiring.

Lens

Standard 7/16" clear tempered flat borosilicate glass (F) or ADA anti-slip and walkover clear tempered flat borosilicate glass (ADA). Flat lenses will withstand loads up to 200 PSI. Sealed to housing with high temperature injection molded silicone gasket. Optional linear and radial spread lenses also available.

Lens Frame

Heavy duty die cast bronze lens frame is supplied as standard. Fastened to housing with eight captive 1/4-20 stainless steel allen cap screws.

Reflectors

Spun aluminum highly specular Alzak™ finish for either NEMA type 1, or 2 spot (SPT) or NEMA type 3, or 5 flood (FLD) distributions. Field adjustable up to 25° tilt and 360 degree horizontal rotation. A segmented wall wash reflector with refractor is available along with a fluorescent reflector for up to 85W lamps.

Lamp Holder

Porcelain 4kv pulse rated medium base for HID and Incandescent lamp sources.

Options

Cast aluminum Convex Rock Guard (CR), Directional Shield (DS), and Driveway Marker (DM). Internal Glare Shield (IGS), Internal Hex Cell Louver (HL), Glass Color Filter (GF), Trim Ring (TR), Grout Mask (GM), Debris Cover (DC), Die cast bronze Port Hole (PH).

Finish

Housing Black (BK). Options can be painted in standard or custom colors. Powder Coat Standard.


Safety

Caution: Care should be taken when specifying fixtures for use in pedestrian walkways to avoid problems that may be caused by high lens temperatures. Consult factory for more information.

Warning

Caution: Care should be taken not to install in-ground fixtures in areas where water can stand for prolonged periods of time. Sufficient drainage must be provided to avoid problems. Consult factory for more information.

PROJECT
FIXTURE TYPE
CATALOG#

 Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

Product Order Guide

Product Order Guide											
Series	Max Watts	Type	Lamp Voltage ⁸	Optics	Lens		Finish ⁹		Options ¹⁰		
SL-43	Fluorescent										
	26CFT	CFT	120	SPT ¹	Spot	F ¹	Clear Flat	BK ⁵ Black	DM ¹	Driveway Marker ^{4,7,10}	
	32CFT	CFT	208	FLD ¹	Flood	ADA ¹	Walkover ¹⁴	BZ ⁵ Bronze	CR ¹	Convex Rockguard ^{7,10}	
	42CFT	CFT	240	FL ¹	Fluorescent	LS ¹	Linear Spread	WH ⁵ White	DS ¹	Directional Shield ^{7,10}	
	60PLH ¹	PLH	277	WW ¹	Wall Wash ²	RS ¹	Radial Spread	GR ⁵ Green	PH ⁶	Porthole	
	85PLH ¹	PLH						NA ⁵ Natural Aluminum	IGS ¹	Glare Shield	
					PHSPT	Porthole Spot ³		GY ⁵ Gray	HL	Hex Cell Louver	
					PHFLD	Porthole Flood		CC ⁵ Custom Color	GF	Glass Color Filter	
					PHFL	Porthole Fluorescent			GM	Grout Mask	
									LFSS	Stainless Steel Lens Frame	
									AHOT ¹³	AIM-HOT	
	High Pressure Sodium										
	50HPS	E17									
	70HPS	E17									
	100HPS	E17									
	150HPS	E17									
	Metal Halide										
	50/70/100MH	E17									
	150MH	E17									
	70MH	Par30 ¹¹									
	100/150MH	Par38 ¹¹									
	70/150MH	T6									
Incandescent											
250INC	Par38 ¹¹			120							
250INC	T4mini 120										
LED ¹²											
Titan25WW	CUS3 ¹²			120-277		10,25,45		Warm White (3050K)			
Titan25TC	CUS3 ¹²			120-277		10,25,45		TruColor (3050K) 1290 Raw Lumens			
Titan25CW	CUS3 ¹²			120-277		10,25,45		Cool (Daylight) White (4700K)			
18WRGB	CUS3 ¹²			120 ⁸		10,28		RGB (requires control system), Consult Factory			

¹ These selections are not available with the PH Porthole option.

² The Wall Wash optical package comes with a dedicated wall wash lens.

³ The Porthole spot parabolic reflector is optimized for 100MH E17 lamp.

⁴ The DM Driveway Marker is limited to 100W maximum.

⁵ Powder Coat Standard.

⁶ The PH Porthole option is supplied as standard in sandblasted bronze.

⁷ These options are supplied in heavy wall cast aluminum.

⁸ Consult factory for other voltages.

⁹ Consult factory for other finishes.

¹⁰ Consult factory for cast bronze options.

¹¹ Does not require internal optics.

¹² The CUS3 is a 25W Titan led from Lamina or 18W led from Philips Solid State.

¹³ AIM-HOT can be used with T6,E17,PAR38 and led optical packages. Consult factory for updates.

¹⁴ Use HPBB version if greater than 39W.

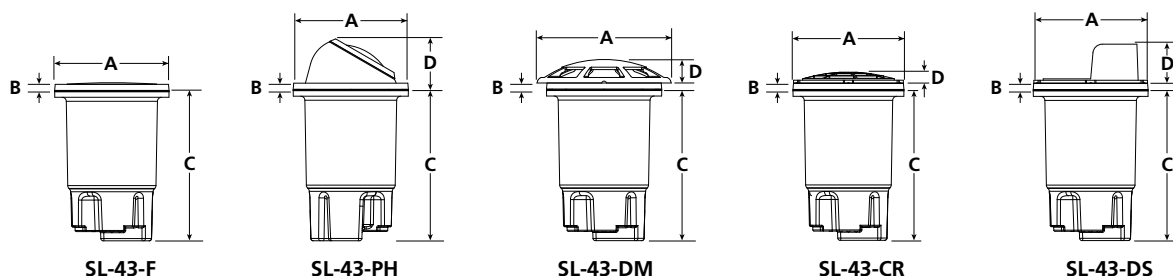
Note: E17 Lamps 150W and below are medium base.

CFT = triple biax, PLH = high

Example: SL-43-150MH-E17-277-SPT-F-DS-BK

Luminaire Dimensions

Luminaire	A		B		C		D		Weight	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
SL-43-F	12.25	311	0.80	20	16.00	405	N/A	N/A	30	13.6
SL-43-PH	12.25	311	0.80	20	16.00	405	5.50	140	37	16.8
SL-43-DM	14.30	363	0.80	20	16.00	405	2.50	64	38	17.2
SL-43-CR	12.25	311	0.80	20	16.00	405	1.20	30	31	14.1
SL-43-DS	12.25	311	0.80	20	16.00	405	4.20	107	32	14.5



Dual Lens for Cool Operation

Pedestrian Areas

Flagpole Lighting

Building Accent

Wall Wash

Sign Lighting

Landscape Areas



DUAL LENS

Specifications



Certifications

ETL and CETL listed for wet location, direct burial, and concrete pour. Certified to IP65 and IP67 to ensure protection against the harshest environments. IEC compliant versions available, consult factory.

Lamp/Ballast Housing

Compression molded Rhinolite™ composite material, structurally reinforced with glass fibers. Superior resistance to ultraviolet degradation and corrosion resistant in harsh environments. Trim Rng (TR) and Debris Cover (DC) supplied standard.

Splice Compartment

Supplied with two 3/4" NPT conduit entrances. Connection to ballast compartment by way of anti-wicking chamber. Sealed with gasketed die cast aluminum cover plate. Suitable for through wiring.

Dual Lens

External lens standard 7/16" clear tempered flat borosilicate glass (F) or ADA anti-slip and walkover clear tempered flat borosilicate glass (ADA). Flat lenses will withstand loads up to 200 PSI. Sealed to housing with high temperature injection molded silicone gasket. Optional linear, radial and wallwash spread lenses also available. Internal lens is 7/16" clear tempered flat borosilicate glass.

Lens Frame

Heavy duty die cast bronze lens frame is supplied as standard. Fastened to housing with eight captive 1/4-20 stainless steel Allen cap screws.

Reflectors

Spun aluminum highly specular Alzak™ finish for either NEMA type 1 spot (SPT) or NEMA type 3 flood (FLD) E17/T6 distributions. Field adjustable up to 25° tilt and 360 degree horizontal rotation. A fluorescent flood reflector for up to 42W lamps.

Lamp Holder

Porcelain 4kv pulse rated medium base for HID and Incandescent lamp sources.

Options

Cast aluminum Convex Rock Guard (CR), and Directional Shield (DS). Internal Hex Cell Louver (HL), Glass Color Filter (GF), Trim Ring (TR), Grout Mask (GM), Debris Cover (DC).

Finish

Housing Black (BK). Options can be painted in standard or custom colors. Powder Coat Standard.


Safety

Caution: Care should be taken when specifying fixtures for use in pedestrian walkways to avoid problems that may be caused by high lens temperatures. Consult factory for more information.

Warning

Caution: Care should be taken not to install in-ground fixtures in areas where water can stand for prolonged periods of time. Sufficient drainage must be provided to avoid problems. Consult factory for more information.

PROJECT
FIXTURE TYPE
CATALOG#



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

SL-43 HPBB

Product Order Guide

Series	Max Watts	Lamp Type	Voltage ⁵	Optics		Lens		Finish ⁶		Options	
SL-43HPBB	Fluorescent										
	26CFT	CFT	120	SPT ¹	Spot	F	Clear Flat	BK ³	Black	CR	Convex Rockguard ⁴
	32CFT	CFT	208	FLD	Flood	ADA	ADA Walkover	BZ ³	Bronze	DS	Directional Shield ⁴
	42CFT	CFT	240	FL	Fluorescent	LS	Linear Spread	WH ³	White	HL	Hex Cell Louver
			277	VV ²	Wall Wash	RS	Radial Spread	GR ³	Green	GF	Glass Color Filter
	High Pressure Sodium										
	50/70HPS	E17						NA ³	Natural Aluminum	GM	Grout Mask
	100HPS	E17						GY ³	Gray	LFSS	Stainless Steel Lens
								CC ³	Custom Color	Frame	
										AHOT	AIM-HOT(T6/E17)
	Metal Halide										
	50/70MH	E17									
	100MH	E17									
	70MH	Par30 ⁷		¹ SPT optics available for E17 and T6 lamps only.							
	100MH	Par38 ⁷		² The Wall Wash optical package comes with a dedicated wall wash lens and uses FLD optics.							
	70MH	T6		³ Powder coat painted standard.							
				⁴ These options are supplied in heavy wall cast aluminum with powder coat painted finish.							
	Incandescent										
	100INC	Par38 ⁷	120	⁵ Consult factory for other voltages.							
	100INC	T4mini	120	⁶ Consult factory for other finishes.							
				⁷ Does not require internal optics, select from available lamp manufacturers optics.							

- ¹ SPT optics available for E17 and T6 lamps only.
² The Wall Wash optical package comes with a dedicated wall wash lens and uses FLD optics.
³ Powder coat painted standard.
⁴ These options are supplied in heavy wall cast aluminum with powder coat painted finish.
⁵ Consult factory for other voltages.
⁶ Consult factory for other finishes.
⁷ Does not require internal optics, select from available lamp manufacturers optics.

Note: E17 Lamps 100W and below are medium base. CFT = triple biax

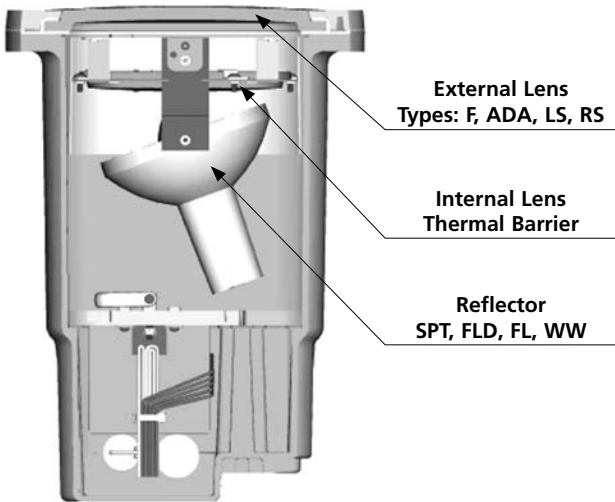
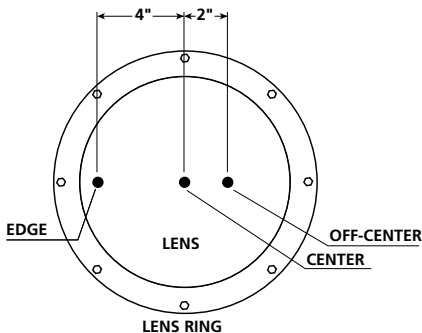
Example: SL-43HPBB-70MH-E17-277-SPT-F-BK

Luminaire Lens Temperatures

Luminaire	Center		Off-Center		Edge	
	°C	°F	°C	°F	°C	°F
SL-43HPBB-70MH-SPT	62°	144°	58°	137°	47°	117°
SL-43HPBB-70MH-FLD	65°	149°	61°	142°	50°	122°
SL-43HPBB-100MH-SPT	80°	176°	77°	171°	59°	138°
SL-43HPBB-100MH-FLD	86°	187°	77°	171°	60°	140°

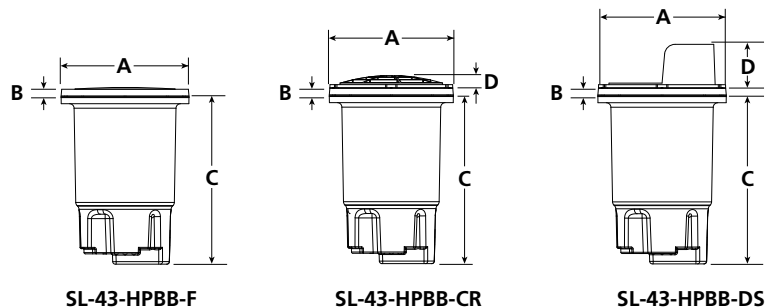
Note: All temperatures are maximum relative to 23° C ambient.

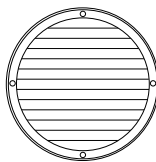
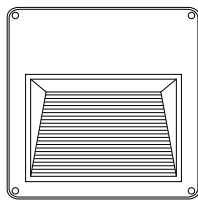
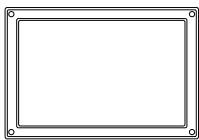
Consult factory for details of the temperature test and a copy of the test report.



Luminaire Dimensions

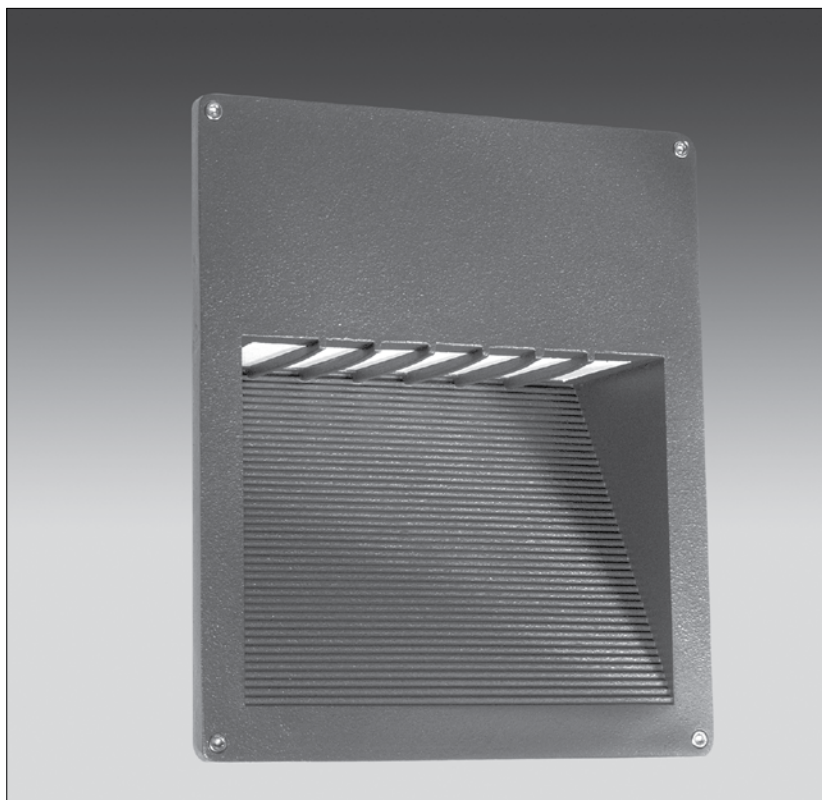
Luminaire	A		B		C		D		Weight	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
SL-43HPBB-F	12.25	311	0.80	20	16.00	405	N/A	N/A	31	13.6
SL-43HPBB-CR	12.25	311	0.80	20	16.00	405	1.20	30	32	14.1
SL-43HPBB-DS	12.25	311	0.80	20	16.00	405	4.20	107	33	14.5





STEP LIGHTS

Corridor
Walkways
Accent
General Lighting

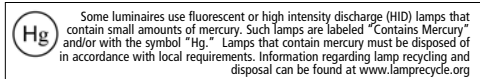


Specifications



- Certifications** The fixture shall be ETL and CETL listed for wet location and concrete pour. Also listed for through wiring. The fixture shall meet ADA requirements.
- Housing** Cast aluminum with a minimum wall thickness of 3/16" and two 3/4" NPT conduit entrances for through-wiring capability.
- Ballast** HID ballasts are HPF core and coil. Fluorescent ballasts 26/32/42 watt CF are electronic, universal voltage 120-277V, 50 or 60 Hz. All ballasts are factory wired and tested, mounted to a removable tray with quick disconnects, HPF.
- Lens / Optics** SP-10 uses tempered clear glass sealed to face plate with high temperature silicone and clips. The reflector is highly polished specular aluminum multifaceted for optimum efficiency.
- Trim Ring / Face Plate** Die-cast aluminum, recessed with louvers, fastened to lamp/ballast housing with four stainless steel screws.
- Finish** BK-BZ-WH-GR-GY-NA is thermoset polyester powdercoat which is electrostatically applied and bonded by heat fusion thermosetting. CC available upon request.

PROJECT
FIXTURE TYPE
CATALOG#



Product Order Guide

Series	Max Watts	Lamp Type	Voltage ¹	Finish ¹	Options
SP-10	50/70MH	E17	120	BK Black	QS Quartz Standby
	100/150MH	E17	208	BZ Bronze	EMG Emergency Battery Backup
			240	WH White	
	35/50 HPS	E17	277	GR Green	
	70/100 HPS	E17		GY Gray	
	150 HPS	E17		NA Natural Alum.	
				CC Custom	
	26 CFT	CFT ²			
	32 CFT	CFT ²			
	42 CFT	CFT ²			
	18 LPS	T17			

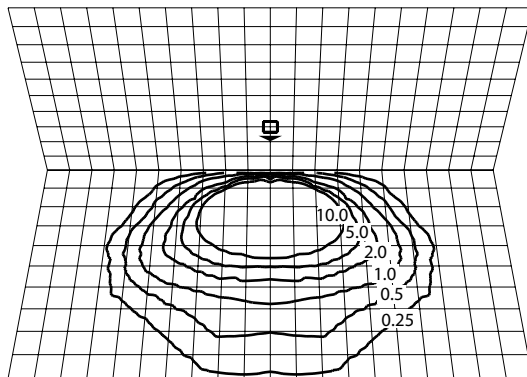
¹ Consult factory for other colors and voltages

² Compact fluorescent lamp base options: 26W CF-GX24q-3, 32W CF-6X24q-3, 42W CF-GX24q-4.

Example: SP-10-100HPS-E17-120-BK

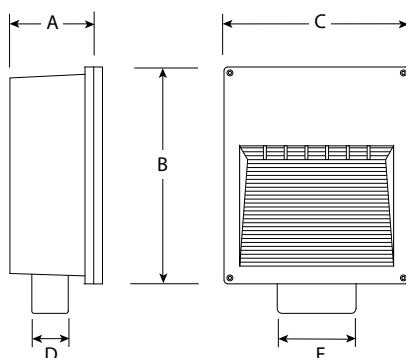
Photometric Data

SP-10-150MH
13000 Initial Lumens
3.0 ft Mounting Height, 1 ft. grid
Value in footcandles

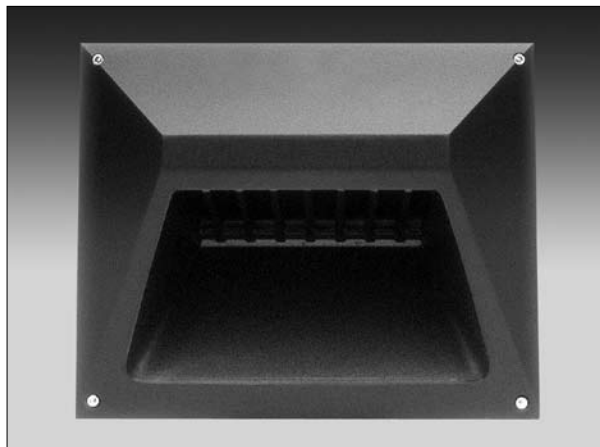


Luminaire Dimensions

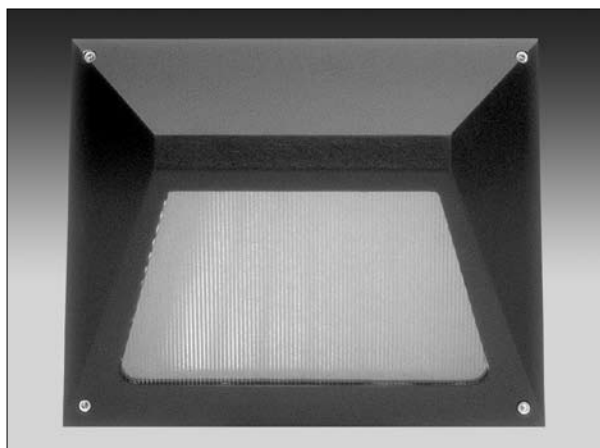
Luminaire	A		B		C		D		E		Weight	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
SP-10	6.0	152	15.0	381	13.0	330	2.75	70	5.25	133	21	9.5



Corridor
Walkways
Accent
General Lighting



SP-30



SP-31

Specifications



Certifications

The fixture shall be ETL and CETL listed for wet location and concrete pour. Also listed for through wiring. The fixture shall meet ADA requirements.

Housing

Cast aluminum with a minimum wall thickness of 3/16" and two 3/4" NPT conduit entrances for through-wiring capability.

Ballast

HID ballasts are HPF core and coil. Fluorescent ballasts 26/32/42 watt CF are electronic, universal voltage 120-277V, 50 or 60 Hz. All ballasts are factory wired and tested, mounted to a removable tray with quick disconnects, HPF.

Lens / Optics

SP-30 uses tempered clear glass sealed to face plate with high temperature silicone and clips. SP-31 uses a sandwich of tempered clear glass with a linear spread lens backing sealed to the faceplate with high temperature silicone and clips. The reflector is highly polished specular aluminum multifaceted for optimum efficiency.

The SP-31 can be inverted for uplight applications.


Trim Ring / Face Plate

Cast aluminum standard. Secured to housing with four 1/4-20 stainless steel allen cap screws. Sealed with closed cell silicone gasket to prevent entrance of dust, insects and moisture.

Finish

BK-BZ-WH-GR-GY-NA is thermoset polyester powdercoat which is electrostatically applied and bonded by heat fusion thermosetting. CC available upon request.

PROJECT
FIXTURE TYPE
CATALOG#



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

SP-30/31

Product Order Guide

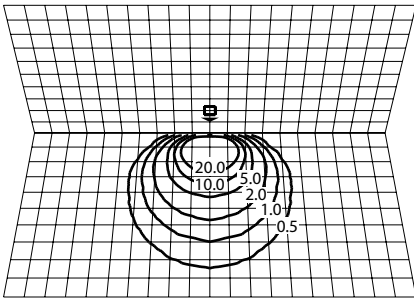
Series	Max Watts	Lamp Type	Voltage ¹	Finish ¹	Options
SP-30/31	50/70 MH	E17	120	BK Black	F Fusing
	100 MH	E17	208	BZ Bronze	LT Left Throw Optics ²
	150 MH	E17	240	WH White	RT Right Throw Optics ²
			277	GR Green	QS Quartz Standby
	35/50 HPS	E17		GY Gray	EMG Emergency Battery Backup
	70 HPS	E17		NA Natural Alum.	
	100 HPS	E17		CC Custom	
	150 HPS	E17			
	(2) 18 CFQ	CFQ			
	26 CFT	CFT			
	(2) 26 CFT	CFT			
	32 CFT	CFT			
	42 CFT	CFT			
	18 LPS	T17			

1 Consult factory for other colors and voltages
2 SP-31 only

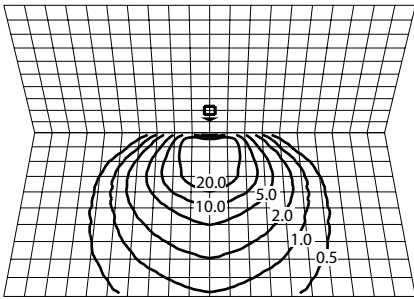
Example: SP-31-100MH-E17-120-BK-RT

Photometric Data

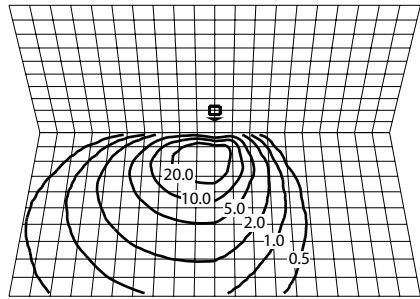
SP-30-150MH
13,000 Initial Lumens
4.0 ft Mounting Height, 2.0 ft. grid
Value in footcandles



SP-31-150MH
13,000 Initial Lumens
4.0 ft Mounting Height, 2.0 ft. grid
Value in footcandles

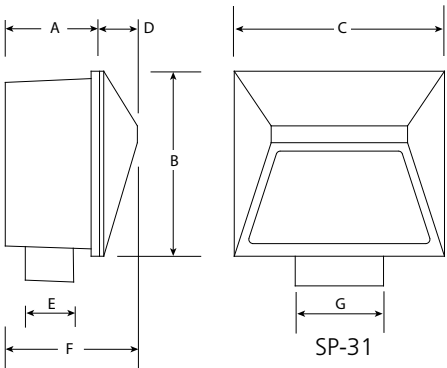
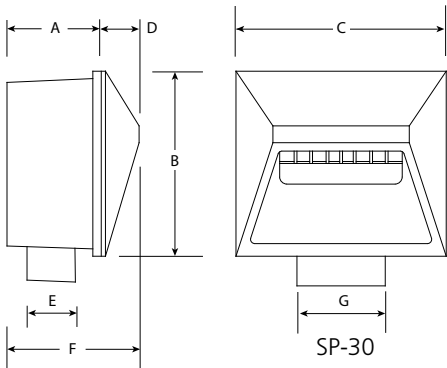


SP-31-150MH-RT
13,000 Initial Lumens
4.0 ft Mounting Height, 2.0 ft. grid
Value in footcandles



Luminaire Dimensions

Luminaire	A		B		C		D		E		F		G		Weight	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
SP-30/31	6.5	165	11.80	302	14.40	366	2.50	64	2.90	74	9.0	229	4.95	126	21	9.5



Corridors

Walkways

Accent and

General Lighting



SP-201



SP-200



SP-203



SP-204

Specifications



Certifications

The fixture shall be ETL and cETL listed to U.S. and Canadian safety standards for wet locations and concrete pour. IP66 rated dust-tight and sealed against direct jets of water. The fixture shall meet ADA requirements.

Housing

The housing is recessed, water-tight, die-cast, copper free aluminum for corrosion resistance in concrete applications. Includes four 1/2" NPT conduit entries for through wiring. Provision for thermal protection is supplied.

Ballast

The ballast for 18W CF shall be electronic 50 or 60 Hz. The ballasts for 9 and 13W CF shall be class B core and coil HPF rated for 0° starting temperature. 120/12 step-down transformer is core and coil isolated primary to secondary. 95% efficiency rating, sound rating "A". All ballasts are factory wired and tested and mounted on a removable tray.

Lens / Optics

The SP-200 lens is opal polycarbonate with color-impregnated polycarbonate to finish to match fixture. The lens shall be frosted tempered glass for all other fixtures. Symmetric reflector is precision formed with white reflective coating.

Trim Ring / Face Plate

The SP-200/201 trim ring is of a die-cast, copper-free aluminum for superior corrosion resistance. The SP-200/201 face plate is die-cast aluminum.


The SP-203/204 trim ring is of polycarbonate, color-impregnated with dark bronze finish. The face plates are natural cast bronze.

All fixtures use a silicone gasket ensuring a positive watertight seal, louver provides 45° shielding.

Finish

BK-BZ-WH-GR-GY-NA is thermoset polyester powdercoat which is electrostatically applied and bonded by heat fusion thermosetting. CC available upon request. **Back box trim must be painted to match the face plate.** CC may delay pre-shipment.

PROJECT
FIXTURE TYPE
CATALOG#



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

SP-200/201

203/204

Product Order Guide

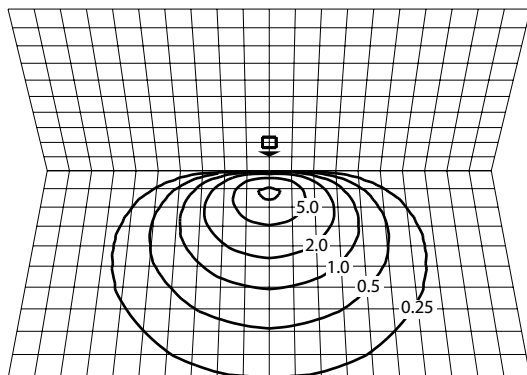
Series	Max Watts	Lamp Type	Voltage ³	Finish ³	Options
SP-200/201 203/204	9 CF ²	CF	120/277	BK Black	P ¹ Thermal Protector
	13 CF ²	CF	120/12 or 12	BZ Bronze	MM Masonry Mounting Kit
	18 CF ²	CF	120	WH White	NS New Stud Wall Mounting Kit
	(2)18 LV	S8		GR Green	ES Existing Hollow Wall Mounting Kit
	40 INC	T10		GY Gray	
				NA Natural Alum	
				CC Custom	
			SP-203/204	Cast Bronze	
	LED				
	3x1	3000K Warm White (WW) or 5500K Cool White (CW) Luxeon® (120V only)			
	5x1	3000K Warm White (WW) or 5500K Cool White (CW) Luxeon® (120V only)			

- 1 Thermal protector is required for installations in drywall, plaster, wood or other non-masonry materials with the exception of fluorescent and LED lamping and must be ordered as an option.
- 2 Compact fluorescent lamp base options: 9W CF-G23, 13W 120V CF-GX23-2, 13W 277V G24Q-1, 18W CF-G24Q-2.
- 3 Consult factory for other colors and voltages.

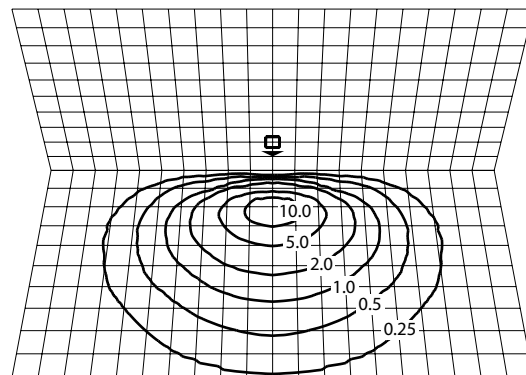
Example: SP-200-18CF-120-BK-P-NS

Photometric Data

SP-200-18CF
1075 Initial Lumens
1.0 ft Mounting Height, 0.5 ft. grid
Value in footcandles

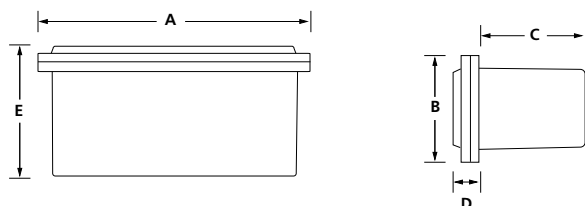


SP-201-18CF
1075 Initial Lumens
1.0 ft Mounting Height, 0.5 ft. grid
Value in footcandles



Luminaire Dimensions

Luminaire	A		B		C		D		E		Weight	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
SP-200	9.00	229	3.50	90	3.50	90	0.69	17	4.19	106	3.64	1.6
SP-201	9.00	229	3.50	90	3.50	90	1.00	25	4.50	114	3.64	1.6
SP-203	9.00	229	3.50	90	3.50	90	1.00	25	4.50	114	3.64	1.6
SP-204	9.00	229	3.50	90	3.50	90	1.00	25	4.50	114	3.64	1.6



Corridors

Walkways

Accent and

General Lighting



SP-206



SP-207

Specifications

ETL cETL ADA IP66

Certifications

The fixture shall be ETL and cETL listed to U.S. and Canadian safety standards for wet locations and concrete pour. IP66 rated dust-tight and sealed against direct jets of water. The fixture shall meet ADA requirements.

Housing

The housing is recessed, water-tight, die-cast, copper free aluminum for corrosion resistance in concrete applications. Includes four 1/2" NPT conduit entries for through wiring. Provision for thermal protection is supplied.

Ballast

The ballast for 18W CF shall be electronic 50 or 60 Hz. The ballasts for 9 and 13W CF shall be class B core and coil HPF rated for 0° starting temperature. 120/12 step-down transformer is core and coil isolated primary to secondary. 95% efficiency rating, sound rating "A". All ballasts are factory wired and tested and mounted on a removable tray.

Lens / Optics

The lens shall be frosted tempered glass for both fixtures. Symmetric reflector is precision formed with white reflective coating.

Trim Ring / Face Plate

SP-206 trim ring and face plate are die-cast, copper-free aluminum for superior corrosion resistance.


The SP-207 trim ring is polycarbonate, color impregnated with a dark bronze finish. Face plate is natural cast bronze.

Both are supplied with a silicone gasket ensuring a positive watertight seal. Louvers provide 45° shielding.

Finish

BK-BZ-WH-GR-GY-NA is thermoset polyester powdercoat which is electrostatically applied and bonded by heat fusion thermosetting. CC available upon request. **Back box trim must be painted to match the face plate.** CC may delay pre-shipment.

PROJECT
FIXTURE TYPE
CATALOG#



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

SP-206/207

Product Order Guide

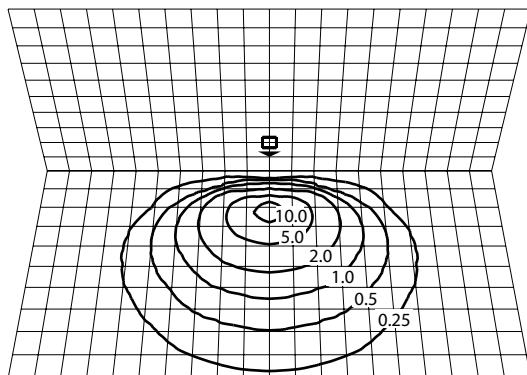
Series	Max Watts	Lamp Type	Voltage ²	Finish ²	Options
SP-206/207	9 CF ³	CF	120/277	SP-206 BK Black	P ¹ Thermal Protector
	13 CF ³	CF	120/12 or 12	BZ Bronze	MM Masonry Mounting Kit
	18 CF ³	CF	120	WH White	NS New Stud Wall Mounting Kit
	(2)18 LV	S8		GR Green	ES Existing Hollow Wall Mounting Kit
	40 INC	T10		GY Gray	
				NA Natural Alum	
				CC Custom	
SP-207 Cast Bronze					
LED					
	3x1	3000K Warm White (WW) or 5500K Cool White (CW) Luxeon® (120V only)			
	5x1	3000K Warm White (WW) or 5500K Cool White (CW) Luxeon® (120V only)			

- 1 Thermal protector is required for installations in drywall, plaster, wood or other non-masonry materials with the exception of fluorescent and LED lamping and must be ordered as an option.
- 2 Consult factory for other colors and voltages.
- 3 Compact fluorescent lamp base options: 9W CF-G23, 13W 120V CF-GX23-2, 13W 277V G24Q-1, 18W CF-G24Q-2.

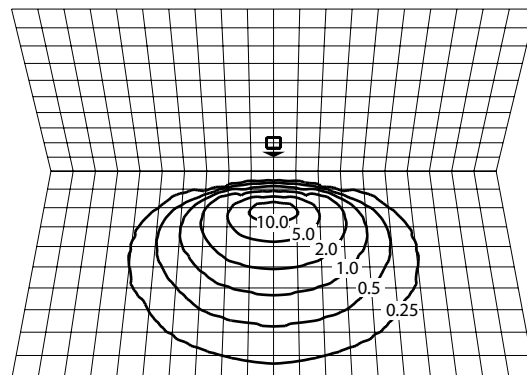
Example: SP-203-18CF-120-WH-P-NS

Photometric Data

SP-206-18CF
1075 Initial Lumens
1.0 ft Mounting Height, 0.5 ft. grid
Value in footcandles

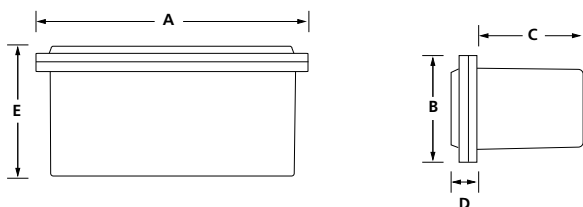


SP-207-18CF
1075 Initial Lumens
1.0 ft Mounting Height, 0.5 ft. grid
Value in footcandles



Luminaire Dimensions

Luminaire	A		B		C		D		E		Weight	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
SP-206	9.00	229	3.50	90	3.50	90	1.00	25	4.50	114	3.64	1.6
SP-207	9.00	229	3.50	90	3.50	90	1.00	25	4.50	114	3.64	1.6



Corridors

Walkways

Accent and

General Lighting



Specifications



Certifications

The fixture shall be ETL and cETL listed to U.S. and Canadian safety standards for wet locations and concrete pour. The fixture shall meet ADA requirements.

Housing

The housing is recessed, water-tight, die-cast, copper free aluminum for corrosion resistance in concrete applications. Includes two 1/2" NPT conduit taps in the bottom and one 1/2" NPT in each side for through wiring capability. Provision for thermal protection is supplied.

Ballast

HID ballasts are HPF core and coil. Fluorescent ballasts 26/32/42 watt CF are electronic, universal voltage 120-277V, 50 or 60 Hz. All ballasts are factory wired and tested, mounted to a removable tray with quick disconnects, HPF.

Lens / Optics

Precision formed, highly polished specular aluminum symmetric reflector standard. Symmetric reflector is precision formed specular aluminum.

Trim Ring / Face Plate

The trim ring and face plate are copper free die-cast aluminum, the face plate louver provides 45° shielding, lens is flat frosted glass, sealed with a single piece molded silicone gasket ensuring a positive water tight seal.

Finish

BK-BZ-WH-GR-GY-NA is thermoset polyester powdercoat which is electrostatically applied and bonded by heat fusion thermosetting. CC available upon request. **Back box trim must be painted to match the face plate.** CC may delay pre-shipment.

PROJECT
FIXTURE TYPE
CATALOG#

SP-210



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

Product Order Guide

Series	Max Watts	Lamp Type	Voltage ³	Finish ³	Options
SP-210	50 MH	E-17	120/277	BK Black	P1 Thermal Protector
				BZ Bronze	MM Masonry Mounting Kit
	35 HPS	E-17		WH White	NS New Stud Wall Mounting Kit
	50 HPS	E-17		GR Green	ES Existing Hollow Wall Mounting Kit
				GY Gray	
	26 CF ²	CF	120/208/240/277	NA Natural Alum.	
	32 CF ²	CF	120/208/240/277	CC Custom	
	42 CF ²	CF	120/208/240/277		
	50 LV ²	T4	120/12		
	60 INC	A19	120		

1 Thermal protector is required for installations in drywall, plaster, wood or other non-masonry materials with the exception of fluorescent and LED lamping and must be ordered as an option.

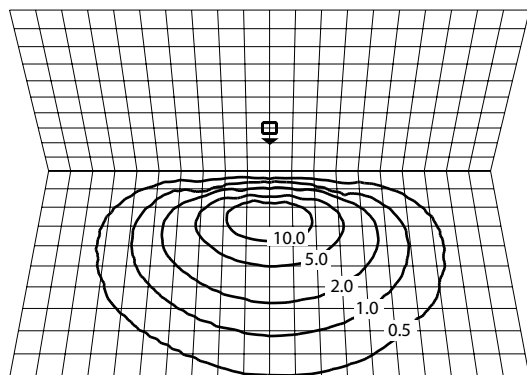
2 Compact fluorescent lamp base options: 26W CF-GX24q-3, 32W CF-GX24q-3, 42W CF-GX24q-4. T4 base is GY6.35.

3 Consult factory for other colors and voltages.

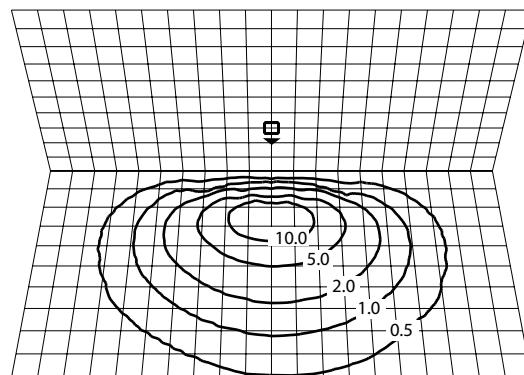
Example: SP-210-42CF-120-BK-NS

Photometric Data

SP-210-50MH Symmetric Reflector
3400 Initial Lumens
3.0 ft Mounting Height, 1.0 ft. grid
Value in footcandles

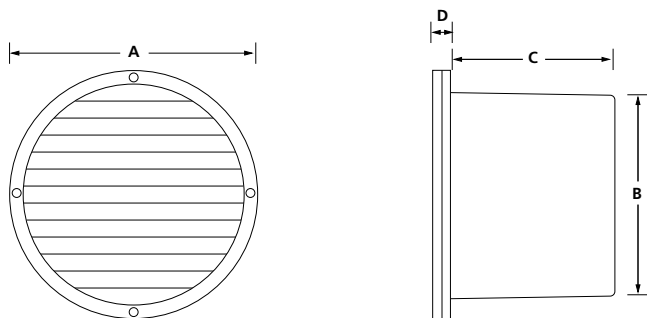


SP-210-42CF
2915 Initial Lumens
3.0 ft Mounting Height, 1.0 ft. grid
Value in footcandles



Luminaire Dimensions

Luminaire	A		B		C		D		Weight	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
SP-210	9.68	246	7.87	200	5.82	148	1.10	28	7.0	3.1



Corridors

Walkways

Accent and

General Lighting



Specifications



Certifications

The fixture shall be ETL and cETL listed to U.S. and Canadian safety standards for wet locations and concrete pour. The fixture shall meet ADA requirements.

Housing

The housing is recessed, water-tight, die-cast, copper free aluminum for corrosion resistance in concrete applications. Includes four 1/2" NPT conduit entries and ample wiring compartment for through wiring. Provision for thermal protection is supplied.

Ballast

HID ballasts are HPF core and coil. Fluorescent ballasts 26/32/42 watt CF are electronic, universal voltage 120-277V, 50 or 60 Hz. All ballasts are factory wired and tested, mounted to a removable tray with quick disconnects, HPF.

Lens / Optics

Specular aluminum segmented reflector assembly. Frosted lens is tempered glass, louvered fixtures have clear tempered glass.

Trim Ring / Face Plate

SP-214/215 trim ring and SP-215 face plate are die-cast, copper-free aluminum for superior corrosion resistance. The SP-214 face plate is cast bronze.


The SP-216/217 trim ring is polycarbonate, color-impregnated dark bronze finish. The face plate is natural cast bronze with finish to match fixture.

Fixtures are supplied with a silicone gasket ensuring a positive, watertight seal. Louver provides 45° shielding.

Finish

SP-214/215 is available in BK-BZ-WH-GR-GY-NA. Thermoset polyester powdercoat electrostatically applied and bonded by heat fusion thermosetting. CC available upon request. **Back box trim must be painted to match the face plate.** CC may delay pre-shipment.

PROJECT
FIXTURE TYPE
CATALOG#



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

SP-214/215

216/217

Product Order Guide

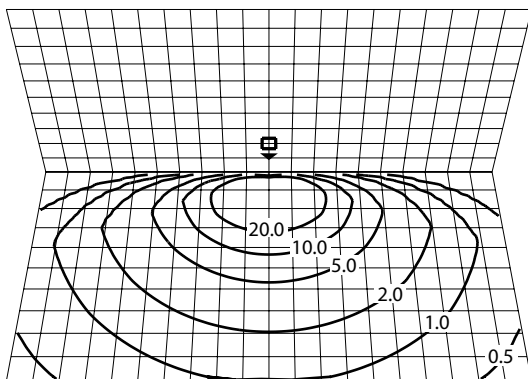
Series	Max Watts	Lamp Type	Voltage ²		Finish ²	Options
SP-214/215	50 MH	E-17	120	SP-214/215	BK Black	P1 Thermal Protector
216/217	70 MH	E-17	277		BZ Bronze	MM Masonry Mounting Kit
					WH White	NS New Stud Wall Mounting Kit
	35 HPS	E-17			GR Green	ES Existing Hollow Wall Mounting Kit
	50 HPS	E-17			GY Gray	
	70 HPS	E-17			NA Natural Alum.	
					CC Custom	
	26 CF ³	CF		SP-216/217	Cast Bronze	
	32 CF ³	CF				
	42 CF ³	CF				
	50 LV ⁴	T4	120/12			
	60 INC	A19	120			

- 1 Thermal protector is required for installations in drywall, plaster, wood or other non-masonry materials with the exception of fluorescent and LED lighting and must be ordered as an option.
- 2 Consult factory for other colors and voltages.
- 3 Compact fluorescent lamp base options: 26W CF-GX24q-3, 32W CF-GX24q-3 , 42W CF-GX24q-4.
- 4 T4 base is GY6.35.

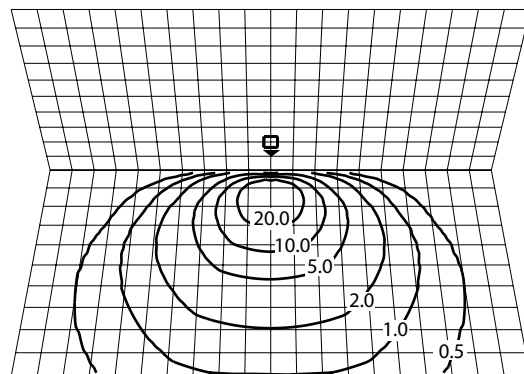
Example: SP-215-70MH-120-BK-P-NS

Photometric Data

SP-214-70MH
5900 Initial Lumens
2.0 ft Mounting Height, 1ft. grid
Value in footcandles

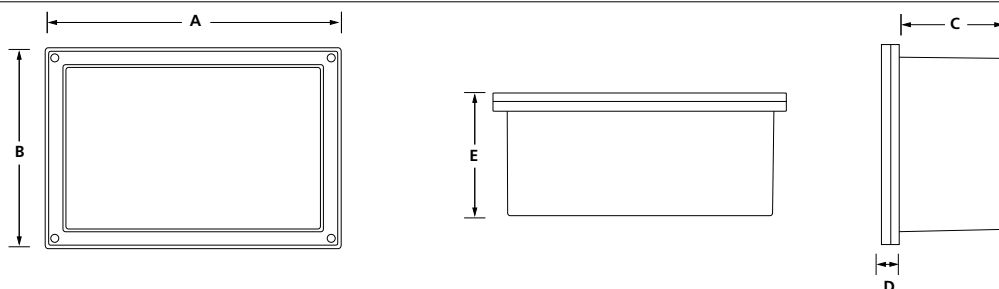


SP-214-42CF
2750 Initial Lumens
2.0 ft Mounting Height, 1ft. grid
Value in footcandles



Luminaire Dimensions

Luminaire	A		B		C		D		E		Weight	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
SP-214	12.36	314	8.34	212	5.75	146	0.67	17	6.41	163	8.0	3.6
SP-215	12.36	314	8.34	212	5.75	146	1.10	28	6.85	174	8.0	3.6
SP-216	12.36	314	8.34	212	5.75	146	0.67	17	6.41	163	8.0	3.6
SP-217	12.36	314	8.34	212	5.75	146	1.10	28	6.85	174	8.0	3.6



Corridors

Walkways

Accent and

General Lighting



Specifications



Certifications

The fixture shall be ETL and cETL listed to U.S. and Canadian safety standards for wet locations and concrete pour. The fixture shall meet ADA requirements.

Housing

The housing is die-cast, copper free aluminum for corrosion resistance in concrete applications. Includes one 1/2" NPT conduit tap on the back and two 3/4" NPT taps on the bottom and one 3/4" NPT on each side for through wiring capability. Provision for thermal protection is supplied.

Ballast

HID ballasts are HPF core and coil. Fluorescent ballasts 26/32/42 watt CF are electronic, universal voltage 120-277V, 50 or 60 Hz. All ballasts are factory wired and tested, mounted to a removable tray with quick disconnects, HPF.

Lens / Optics

The lens shall be frosted tempered glass with silicone gasketing. The reflector is constructed of specular aluminum segmented assembly.


Trim Ring / Face Plate

The trim ring is die-cast copper free aluminum. The face plate is semi-recessed water tight die-cast aluminum with hinges for easy relamping. Attaches with captive, black oxide stainless steel, tamper resistant screws.

Finish

BK-BZ-WH-GR-GY-NA is thermoset polyester powdercoat which is electrostatically applied and bonded by heat fusion thermosetting. CC available upon request. **Back box trim must be painted to match the face plate.** CC may delay pre-shipment.

PROJECT
FIXTURE TYPE
CATALOG#



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

Product Order Guide

Series	Max Watts	Lamp Type	Voltage ⁴	Finish ⁴	Options	
SP-220	39 MH	T6	120	BK Black	P1	Thermal Protector
	70 MH	T6	208	BZ Bronze	MM	Masonry Mounting Kit
	50/70 MH	E-17	220/50Hz ³	WH White	NS	New Stud Wall Mounting Kit
	100 MH	E-17		GR Green	ES	Existing Hollow Wall Mounting Kit
				GY Gray	QS	Quartz Standby (HID only)
	35/50 HPS	E-17		NA Natural Alum.	F	Fusing
	70/100 HPS	E-17		CC Custom	FF	Double Fusing
	26 CFT ²	CFT				
	32 CFT ²	CFT				
	42 CFT ²	CFT				

1 Thermal protector is required for installations in drywall, plaster, wood or other non-masonry materials with the exception of fluorescent and LED lamping and must be ordered as an option.

2 Compact fluorescent lamp base options: 26W CF-GX24q-3, 32W CF-GX24q-3, 42W CF-GX24q-4.

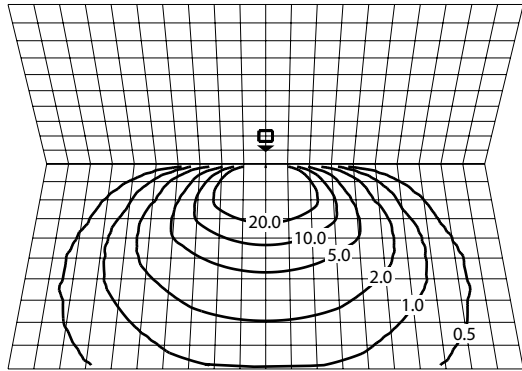
3 Available in 50, 70, 100 HPS and 70, 100 MH only.

4 Consult factory for other colors and voltages.

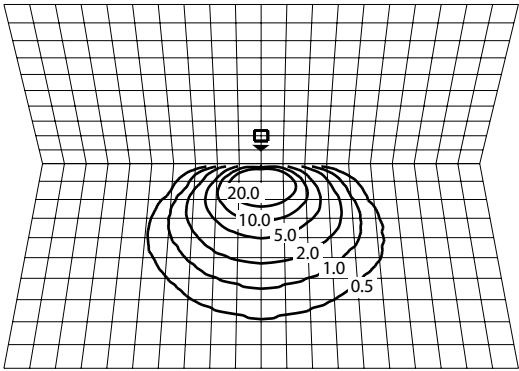
Example: SP-220-100MH-120-BK-P-NS

Photometric Data

SP-220-100MH
 9000 Initial Lumens
 2.0 ft. Mounting Height, 1.0 ft. grid
 Value in footcandles

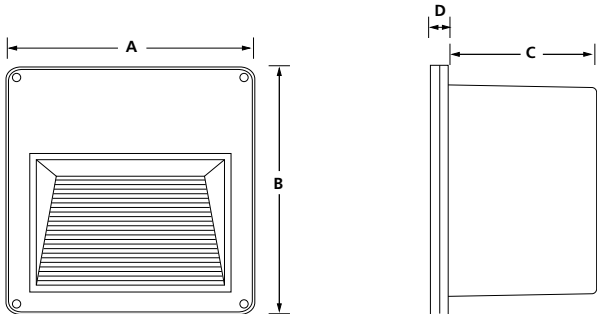


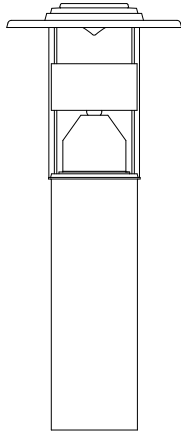
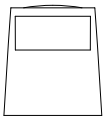
SP-220-42CF
 2475 Initial Lumens
 2.0 ft. Mounting Height, 1.0 ft. grid
 Value in footcandles



Luminaire Dimensions

Luminaire	A		B		C		D		Weight	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
SP-220	12.00	305	12.00	305	5.40	137	0.60	15	10.0	4.5





PATHWAY

Landscape Areas

Path Lighting

Walkway Lighting

Accent Lighting



PATHLIGHT

Specifications



Certifications ETL and CETL listed for wet location. Also meets IP65 standard.

Housing Dual wall die-cast aluminum construction.

Ballast The ballast shall be high power factor core and coil, multi-tap.


Optic Assembly Clear tempered glass and sealed to the housing with high temperature silicone gasket ensuring a positive water tight seal.

Mounting Galvanized steel anchor bolts provided for easy mounting.

Options The following options are available: single or double aperture.

Finish BK-BZ-WH-GR-NA-GY thermoset polyester powder coat which is electrostatically applied and bonded by heat fusion thermosetting.

PROJECT
FIXTURE TYPE
CATALOG#



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

Product Order Guide

Series	Max Watts	Lamp Type	Voltage ¹	Finish ¹	Options
LL-60	35MH	T6	120/277 ²	BK Black	SL Single Side Lens
	70MH	T6		BZ Bronze	DL Double Side Lens @ 180°
	75INC	T4		WH White	
				GR Green	
				NA Natural Aluminum	
				GY Gray	
				CC Custom	

¹ Consult factory for other colors and voltages

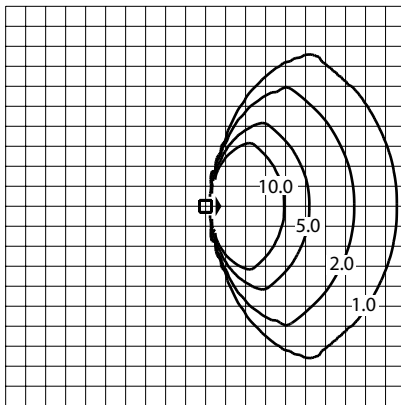
² Dual Tap Ballast only

Example: LL-60-70MH-T6-120-BK-DL

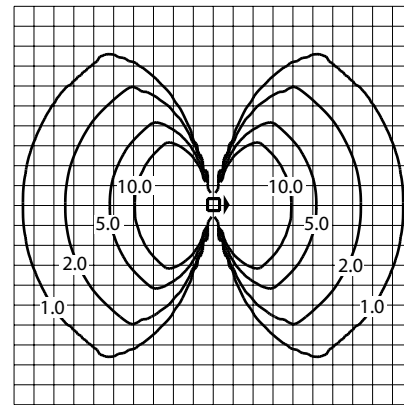
Caution: Care should be taken when specifying fixtures for use in pedestrian areas to avoid problems that may be caused by high lens temperatures. Care should be taken not to install ground level fixtures in areas where water can stand for prolonged periods of time. Sufficient drainage must be provided to avoid problems. Avoid placement of the Pathlight that may present pedestrian trip hazards. Consult factory for more information.

Photometric Data

LL-60-70MH-SL
6600 Initial Lumens
10 in. Mounting Height, 1.0 ft. grid
Value in footcandles

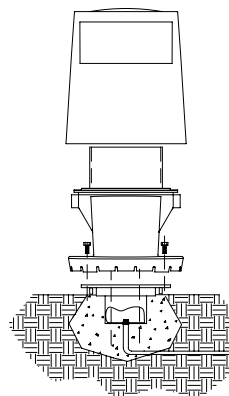
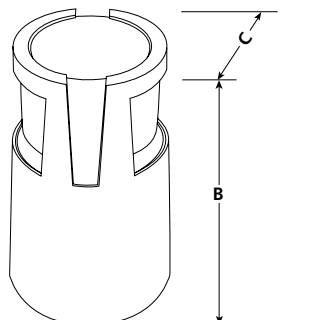
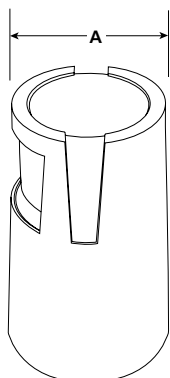


LL-60-70MH-DL
6600 Initial Lumens
10 in. Mounting Height, 1.0 ft. grid
Value in footcandles



Luminaire Dimensions

Luminaire	A		B		C		Weight	
	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
LL-60-SL	7.00"	178	10.50"	267	9.00"	229	16lbs	7.3kg
LL-60-DL	7.00"	178	10.50"	267	9.00"	229	16lbs	7.3kg



Mounting Detail
1/2" or 3/4"
Conduit by
Others

Pedestrian Areas

Walkways

Building Entrances

Parking Lots

Shopping Malls

Landscape Areas



PT - pointed shade and cap



GFL - glow top flat shade and cap

Specifications



Certifications ETL and CETL listed for wet location. Meets IP54 standard.

Housing The housing shall be constructed of spun and cast aluminum. The bollard shaft shall be constructed from 8" diameter one piece extruded 6063 alloy aluminum tube and shall be 24" high.

Ballast The ballast for HID are high power factor core and coil, multi-tap. Ballasts for 26/32/42W compact fluorescent are electronic, universal voltage 120-277V, 50 or 60Hz.

Lens The lens shall be clear polycarbonate (CLL, CLR, CLB & IND versions) or opal polycarbonate for wide angle light distribution (O version) or clear, partially frosted polycarbonate. (ECLR version)

Optic Assembly The reflectors shall be aluminum and silver anodized.

Options The glow tops shall be constructed of uv resistant opal or clear polycarbonate standard or colored polycarbonate optional.

Mounting Galvanized steel anchor bolts provided for easy mounting. Column is secured to base with stainless steel tamper proof screws.

Finish BK-BZ-WH-GR-NA-GY thermoset polyester powder coat which is electrostatically applied and bonded by heat fusion thermosetting.

PROJECT
FIXTURE TYPE
CATALOG#

LL-205



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

Product Order Guide

Series	Max Watts	Lamp Type	Lamp Voltage ³	Optics	Finish ³	Shade	Options
LL-205	70 MH	T6	120	O	BK Black	FL Flat	HSS House Side Shield
	150 MH	T6	208	CLR	BZ Bronze	PT Pointed	
	70/100 MH	E17	240		WH White	RD Round	
	150 MH	E17	277	CLB	GR Green	GFL Glow Flat Opal	
					NA Natural Alum	GPT Glow Pointed Opal	
	50/70 HPS	E17			GY Gray	GRD Glow Round Opal	
	100/150 HPS	E17			CC Custom	GFLC Glow Flat Clear	
						GPTC Glow Pointed Clear	
						GRDC Glow Round Clear	
	26 CFT	CFT ⁴		CLL			
	32 CFT	CFT ⁴		ECLR ¹			
	42 CFT	CFT ⁴					
				GR3			
				GR5			

1 Note ECLR option 70HPS/MH max.

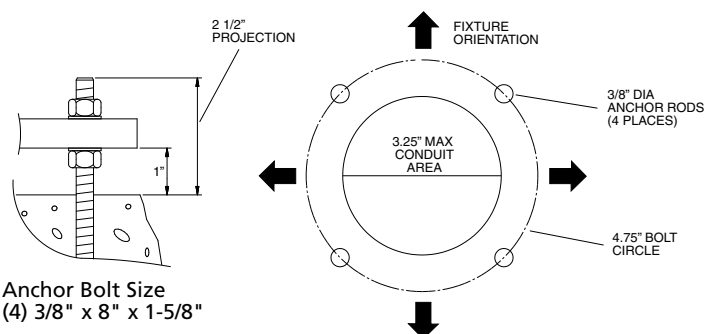
2 NA - Natural Aluminum.

3 Consult factory for other colors and voltages.

4 Compact fluorescent lamp base options: 26/32W CF-G24Q-3
42W CF-GX24Q-4.

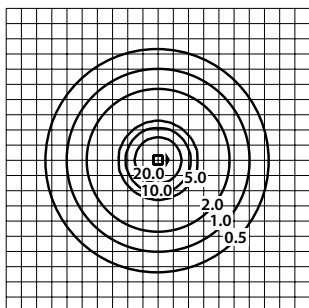
5 T6 Lamping only

Example: LL-205-100MH-E17-277-CLL-BK-FL

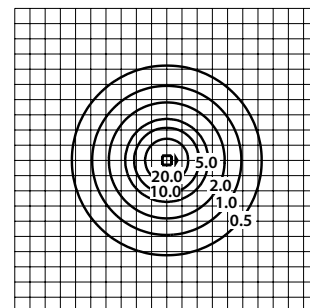


Photometric Data

LL-205-70MH-ECLR
5000 Initial Lumens
36 in. Mounting Height
2.0 ft. grid
Value in footcandles

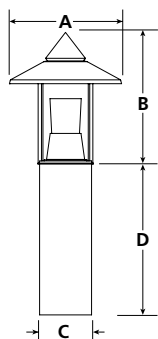


LL-205-70MH-GR5
5000 Initial Lumens
36 in. Mounting Height
2.0 ft. grid
Value in footcandles

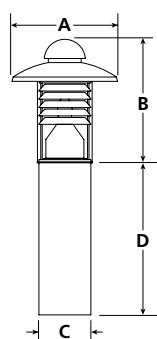


Luminaire Dimensions

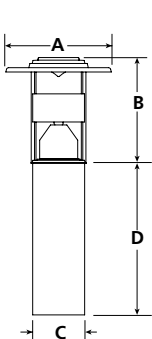
Luminaire	A		B		C		D		Weight	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
LL-205-GR5-PT-HDBP	15.00	381	19.00	483	8.00	394	24.00	610	24.0	10.9
LL-205-CLR-RD	15.00	381	17.75	451	8.00	203	24.00	610	24.5	11.1
LL-205-CLB-FL	15.00	381	15.25	387	8.00	203	24.00	610	24.0	10.9
LL-205-ECLR-RD	15.00	381	17.75	451	8.00	203	24.00	610	25.0	11.3
LL-205-CLL-RD	15.00	381	17.75	451	8.00	203	24.00	610	25.0	11.3



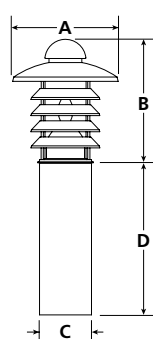
LL-205-GR5-PT



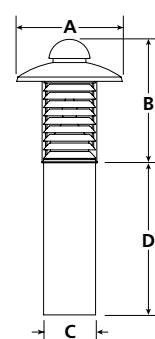
LL-205-CLR-RD



LL-205-CLB-FL



LL-205-ECLR-RD



LL-205-CLL-RD

Building Entrances

Landscape Accent

Walkways

Planted Areas

Parks

Parking Lots



LL-300



LL-301

Specifications



Certifications

The fixture is ETL and cETL listed to U.S. and Canadian safety standards for wet locations.

Housing

The head assembly is spun aluminum and has easy access for re-lamping. Fixture column is extruded aluminum, 6" diameter with .125" wall thickness. Fixture base is constructed of heavy duty cast aluminum.

Ballast

The ballast for HID are high power factor core and coil, multi-tap. Ballasts for 26/32/42W compact fluorescent are electronic, universal voltage 120-277V, 50 or 60Hz.

Lens

The lens shall be single piece clear acrylic with high temperature silicone gaskets for positive sealing of optical chamber.

Optic Assembly

Borosilicate Type 5 glass refractor with or without house side shield or conical specular aluminum reflector.

Mounting

Galvanized steel anchor bolts and twist-lock feature provided for easy mounting. Column is secured to base with stainless steel locking screw.


Finish

BK-BZ-WH-GR-NA-GY thermoset polyester powder coat which is electrostatically applied and bonded by heat fusion thermosetting. VR finish is hand-rubbed over a black thermoset polyester powdercoat. Limestone and Sandstone finish is bonded to the aluminum substrate.

Safety

Caution: Care should be taken when specifying fixtures for use in pedestrian walkways as lens temperatures from certain lamps could cause injury. Consult factory for more information.

PROJECT
FIXTURE TYPE
CATALOG#



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

LL-300/301

Product Order Guide

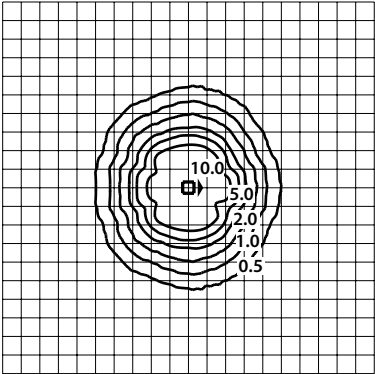
Series	Max Watts	Lamp Type	Voltage	Overall Height	Finish ³	Options
LL-300/301	50 MH	E-17	120	24" 609 mm	BK Black	CLR Cone ¹
	70 MH	E-17	208	30" 762 mm	BZ Bronze	GR5 Type V Refractor
			240	38" 965 mm	WH White	HSS House Side Shield
	70 HPS	E-17	277		GR Green	F Single Fusing (120/277)
	70 INC	A21			NA Natural Alum	FF Double Fusing (208/240)
					GY Gray	GFI GFI Provision
	26 CFT	CF ^{1,2}			VR Verde	EMG Emergency Battery Backup
	32 CFT	CF ^{1,2}			L Limestone	
	42 CFT	CF ^{1,2}			S Sandstone	
					CC Custom	

- 1 Cone optic not available with fluorescent lamps.
- 2 Compact fluorescent lamp base options: 26W CF-GX24q-3, 32W CF-GX24q-3, 42W CF-GX24q-4.
- 3 Consult factory for other colors and voltages.

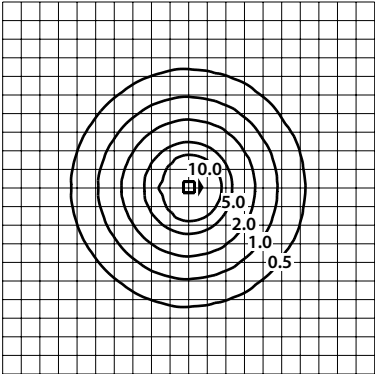
Example: LL-300-42CF-120-30-BK-GR5

Photometric Data

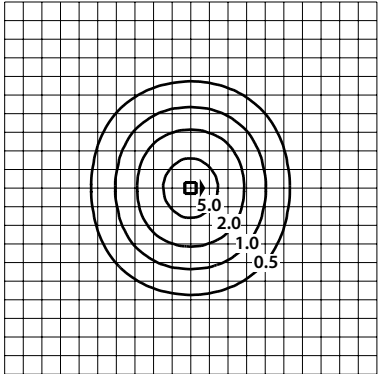
LL-300-100MH-type CLR
5900 Initial Lumens
36 in. Mounting Height, 2.0 ft. grid
Value in footcandles



LL-300-100MH-type V
5900 Initial Lumens
36 in. Mounting Height, 2.0 ft. grid
Value in footcandles

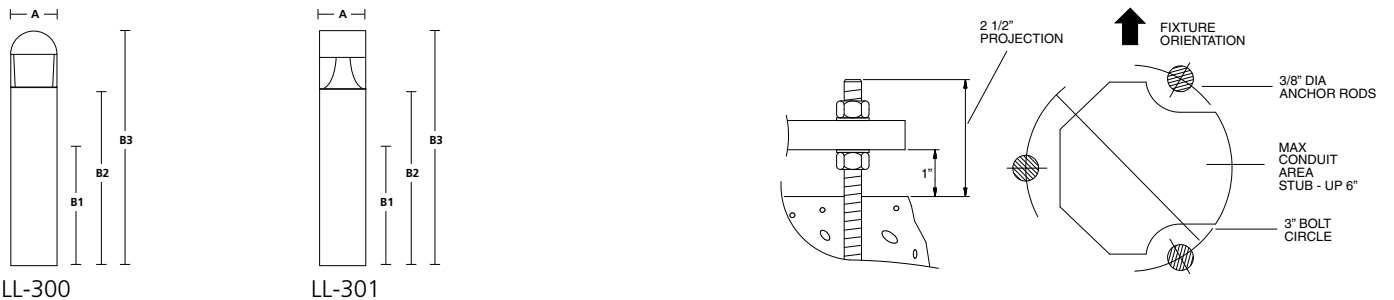


LL-301-42CF-type V
3200 Initial Lumens
36 in. Mounting Height, 2.0 ft. grid
Value in footcandles



Luminaire Dimensions

Luminaire	A		B1		B2		B3		C		Weight	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
LL-300	6.0	152	24.0	610	30.0	762	38.0	969	N/A	N/A	20.0	9.1
LL-301	6.0	152	24.0	610	30.0	762	38.0	969	N/A	N/A	20.0	9.1



Building Entrances

Landscape Accent

Walkways

Planted Areas

Parks

Parking Lots



LL-310



LL-311

Specifications



Certifications

The fixture is ETL and cETL listed to U.S. and Canadian safety standards for wet locations.

Housing

The head assembly is cast aluminum with easy access for re-lamping. Fixture column is extruded aluminum, 8" diameter with .125" wall thickness. Fixture base is constructed of heavy duty cast aluminum.

Ballast

The ballast for HID are high power factor core and coil, multi-tap. Ballasts for 26/32/42W compact fluorescent are electronic, universal voltage 120-277V, 50 or 60Hz.

Optic Assembly

Borosilicate Type 5 glass reflector with or without house side shield, Type 3 glass refractor, conical specular aluminum reflector, white powder coated louvers or specular louvers.

Mounting


Galvanized steel anchor bolts and twist-lock feature provided for easy mounting. Column is secured to base with stainless steel locking screw.

Finish

BK-BZ-WH-GR-NA-GY thermoset polyester powder coat which is electrostatically applied and bonded by heat fusion thermosetting. VR finish is hand-rubbed over a black thermoset polyester powdercoat. Limestone and Sandstone finish is bonded to the aluminum substrate.

Safety

Caution: Care should be taken when specifying fixtures for use in pedestrian walkways as lens temperatures from certain lamps could cause injury. Consult factory for more information.

PROJECT
FIXTURE TYPE
CATALOG#
 Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

LL-310/311

Product Order Guide

Series	Max Watts	Lamp Type	Voltage	Overall Height	Finish ³	Options
LL-310/311	50/70 MH 100 MH	E-17	120	24" 609 mm	BK Black	CLR Cone ²
		E-17	208	30" 762 mm	BZ Bronze	GR3 Type III Refractor
			240	36" 914 mm	WH White	GR5 Type V Refractor
	50/70 HPS 100 HPS	E-17	277	42" 1067 mm	GR Green	HSS House Side Shield ⁴
		E-17			NA Natural Alum	LW White Louvers
	100 INC	A21			GY Gray	LS Specular Louvers
					VR Verde	F Single Fusing (120/277)
					L Limestone	FF Double Fusing (208/240)
					S Sandstone	EMG Emergency Battery Backup
					CC Custom	
	26 CFT	CF ^{1,2}				
	32 CFT	CF ^{1,2}				
	42 CFT	CF ^{1,2}				

1 Compact fluorescent lamp base options: 26W CF-GX24q-3, 32W CF-GX24q-3, 42W CF-GX24q-4.

2 Cone optic not available with fluorescent lamps.

3 Consult factory for other colors and voltages.

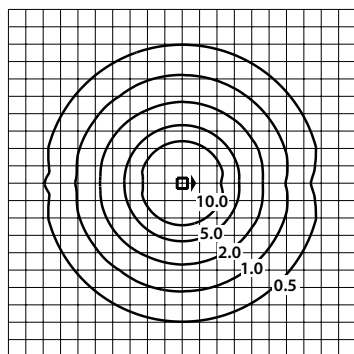
4 GR5 only.

5 Consult factory for HDBP anchor bolt arrangement.

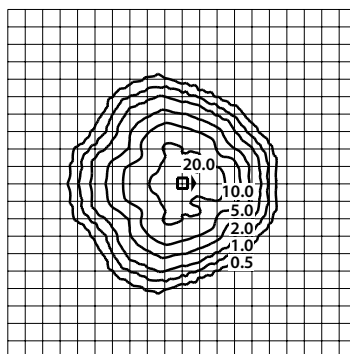
Example: LL-310-100MH-120-36-BZ-LS

Photometric Data

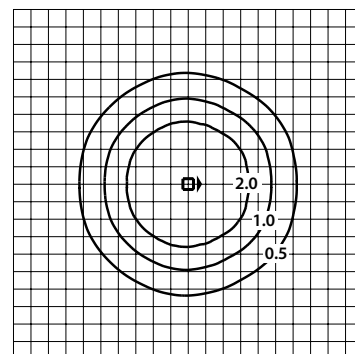
LL-311-100MH-type LW
9000 Initial Lumens
42 in. Mounting Height, 2.0 ft. grid
Value in footcandles



LL-311-100MH-type CLR
9000 Initial Lumens
42 in. Mounting Height, 2.0 ft. grid
Value in footcandles

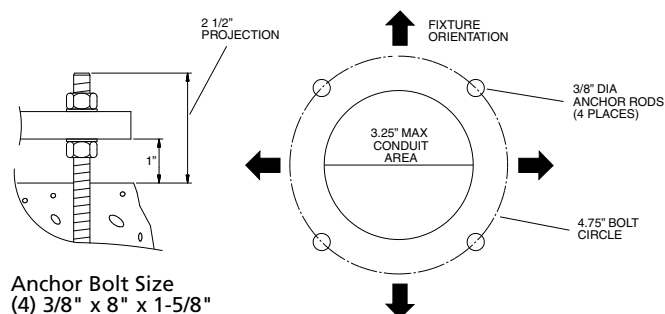
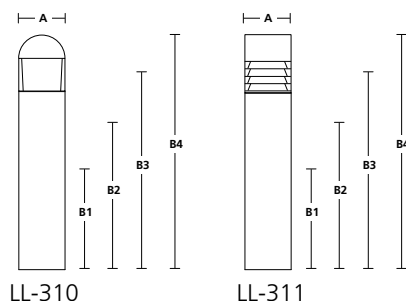


LL-310-42CF-type V
3200 Initial Lumens
42 in. Mounting Height, 2.0 ft. grid
Value in footcandles



Luminaire Dimensions

Luminaire	A		B1		B2		B3		B4		Weight	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
LL-310	8.0	203	24.0	610	30.0	762	36.0	914	42.0	1066	37.0	16.7
LL-311	8.0	203	24.0	610	30.0	762	36.0	914	42.0	1066	37.0	16.7



Building Entrances

Vandal Resistant

Landscape Accent

Walkways

Planted Areas

Parks

Parking Lots



LL-313



LL-314



LL-315

Specifications



Certifications

The fixture is ETL and cETL listed to U.S. and Canadian safety standards for wet locations.

Housing

The head assembly is sand cast aluminum roof and die-cast aluminum louvers with easy access for re-lamping. Fixture column is extruded aluminum, 8" diameter with .125" wall thickness. Fixture base is constructed of heavy duty cast aluminum.

Ballast

The ballast for HID are high power factor core and coil, multi-tap. Ballasts for 26/32/42W compact fluorescent are electronic, universal voltage 120-277V, 50 or 60Hz.

Optic Assembly

Tempered ribbed glass globe with high temperature, molded silicone gasket for positive sealing of the optical chamber. House side shield is supplied with each fixture (optional use).

Mounting

Galvanized steel anchor bolts and twist-lock feature provided for easy mounting. Column is secured to base with stainless steel locking screw.

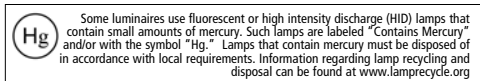
Finish

BK-BZ-WH-GR-NA-GY thermoset polyester powder coat which is electrostatically applied and bonded by heat fusion thermosetting. VR finish is hand-rubbed over a black thermoset polyester powdercoat. Limestone and Sandstone finish is bonded to the aluminum substrate.

Safety

Caution: Care should be taken when specifying fixtures for use in pedestrian walkways as lens temperatures from certain lamps could cause injury. Consult factory for more information.

PROJECT
FIXTURE TYPE
CATALOG#



LL-313/314/315

Product Order Guide

Series	Max Watts	Lamp Type	Voltage	Finish ²	Options
LL-313/314/315	50/70 MH 100 MH	E-17	120	BK Black	F Single Fusing (120/277)
		E-17	208	BZ Bronze	FF Double Fusing (208/240)
			240	WH White	HSS House Side Shield
	50/70 HPS 100 HPS	E-17	277	GR Green	EMG Emergency Battery Backup
		E-17		NA Natural Alum	
	100 INC	A21		GY Gray	
				VR Verde	
				L Limestone ³	
				S Sandstone ³	
				CC Custom	
	26 CFT	CF ¹			
	32 CFT	CF ¹			
	42 CFT	CF ¹			

1 Compact fluorescent lamp base options: 26/32W CF-GX24q-3, 42W CF-GX24q-4.

2 Consult factory for other colors and voltages.

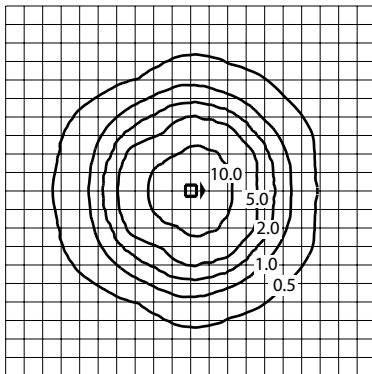
3 Louvers on CraftStone finishes are powdercoated White.

4 Consult factory for HDBP anchor bolt arrangement.

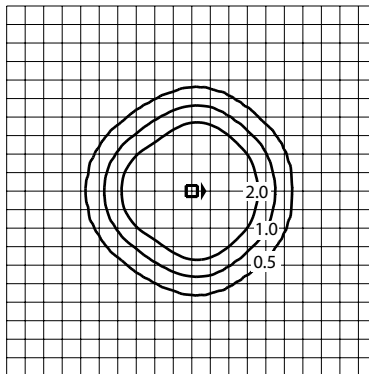
Example: LL-314-42CF-120-BK

Photometric Data

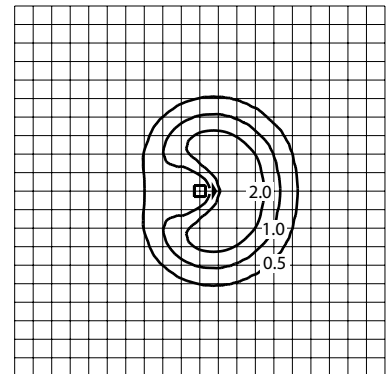
LL-313-100MH
9000 Initial Lumens
38 in. Mounting Height, 2.0 ft. grid
Value in footcandles



LL-313-42CF
3200 Initial Lumens
38 in. Mounting Height, 2.0 ft. grid
Value in footcandles

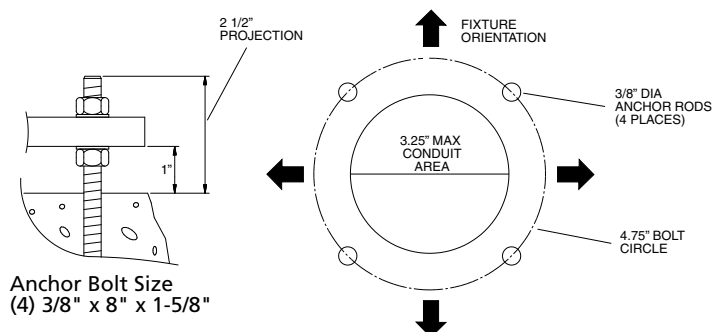
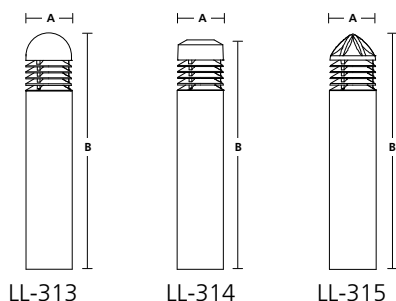


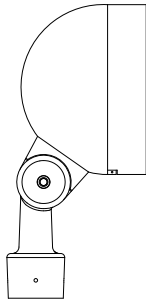
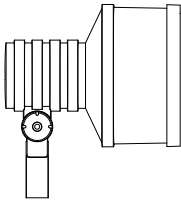
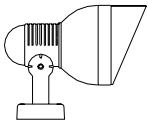
LL-313-42CF-HSS
3200 Initial Lumens
38 in. Mounting Height, 2.0 ft. grid
Value in footcandles



Luminaire Dimensions

Luminaire	A		B		Weight	
	Inch	mm	Inch	mm	lbs.	kg
LL-313	8.0	203	41.6	1056	37.0	16.7
LL-314	7.9	201	40.7	1035	37.0	16.7
LL-315	8.0	203	41.8	1062	37.0	16.7





FLOOD LIGHTS

Specification Grade

Sign Accent

Building Entrances

Doorways

Pedestrian Areas

Landscape Areas

Building Accent

Wall Wash



Specifications



Certifications

ETL and CETL listed for wet location and meets IP65 standard, dust-tight and water-jet proof.

Fixture Housing/Knuckle

The housing and knuckle is constructed of heavy wall die cast aluminum castings with a minimum 1/8" thickness.

Lens

Clear tempered 3/16" thick, high temperature silicone gasket sealed to fixture housing.

Lens Frame

Die cast aluminum minimum thickness of 1/8", attached to fixture housing with one center pinned latch and four rear mounted stainless steel cap screws.

Reflectors

Spun aluminum highly specular Alzak™ finish for either type R2 spot (1H1V), R3 flood (3H3V) or R4 flood (4H4V) distributions. One segmented asymmetric reflector is available, type R5 (distribution varies with lamp).

Lamp Holder

Porcelain 4kv pulse rated medium base for HID lamp sources.

Options

Color Filter (CF), Polycarbonate Lens Shield (PL), Barndoors (BD), Grid Louver (GL), Long Visor (LV), Short Visor (SV), Full Visor (FV), Fusing (F), Double Fusing (FF), Photo Control Button (PCB). The Vertical Orientation (VO) allows the FL-02 to be configured in the vertical position. Note: when in the VO orientation the asymmetric optics are rotated 90°.

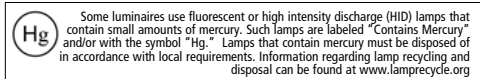
Mounting Detail

The FL-02 Knuckle is field adjustable up to 136° tilt and 360° horizontal rotation and slips over a 2-3/8" tenon. The FL-02-K or FL-02-VO may be horizontal surface mounted using either the Pier Mount (PM) or Stanchion Mount (SM) options. The FL-02-K or FL-02-VO may be wall mounted using the Designer Wall Bracket (DWB), or Standard Wall Bracket (WBT). The FL-02-Y is field adjustable up to 300° tilt and 90° horizontal rotation and can be secured to any surface with two screws using a cast adaptor. Mounting hardware and junction box by others. Call factory for custom mounting arrangements.

Finish

BK-BZ-WH-GR-GY-NA thermoset polyester powder coat which is electrostatically applied and bonded by heat fusion thermosetting. CC available upon request.

PROJECT
FIXTURE TYPE
CATALOG#



Product Order Guide

Series	Mounting Type		Max Watts	Lamp Type	Voltage ¹	Reflector Type	Finish ²		Options		
FL-02	K	Knuckle	26 CFT	CFT	120	R2	1H1V Spot	BK	Black	PCB	Photo Control Button
	Y	Yoke	32 CFT	CFT	208	R3	3H3V Flood	BZ	Bronze	PL	Polycarbonate Lens Shield
	VO	Vertical Orientation	42 CFT	CFT	240	R4 ³	7H7V Flood	WH	White	BD	Barn Doors
			60 PLH	PLH	277	R5 ³	Asymmetric	GR	Green	GL	Grid Louver
								NA	Natl Aluminum	LV	Long Visor
			GY	Gray	SV			Short Visor			
			CC	Custom Color	FV			Full Visor			
			35/50 HPS	E17	DWB			Designer Wall Bracket			
					PM			Pier Mount			
			70/100 HPS	E17	SM			Stanchion Mount			
					WBT			Wall Bracket with Tenon			
			50/70 MH	E17							
	100 MH	E17									
39/70 MH	T6										
LED											
	Titan 25TC	CUS3 ⁴	25,45	120-277	TruColor (3050°K)		1290 Raw Lumens	F	Fusing		
	Titan 25WW	CUS3 ⁴	25,45	120-277	Warm White (3050°K)			FF	Double Fusing		
	Titan 25CW	CUS3 ⁴	25,45	120-277	Cool (Daylight) White (4700°K)						

¹ Consult factory for other voltages.

² Consult factory for other finishes. Powder coat paint standard.

³ Compact fluorescent limited to R4 and R5 reflector types. R4 only compact fluorescent.

⁴ The CUS3 uses a 25W Titan from Lamina with no tilt

Note: E17 Lamps 150W and below are medium base

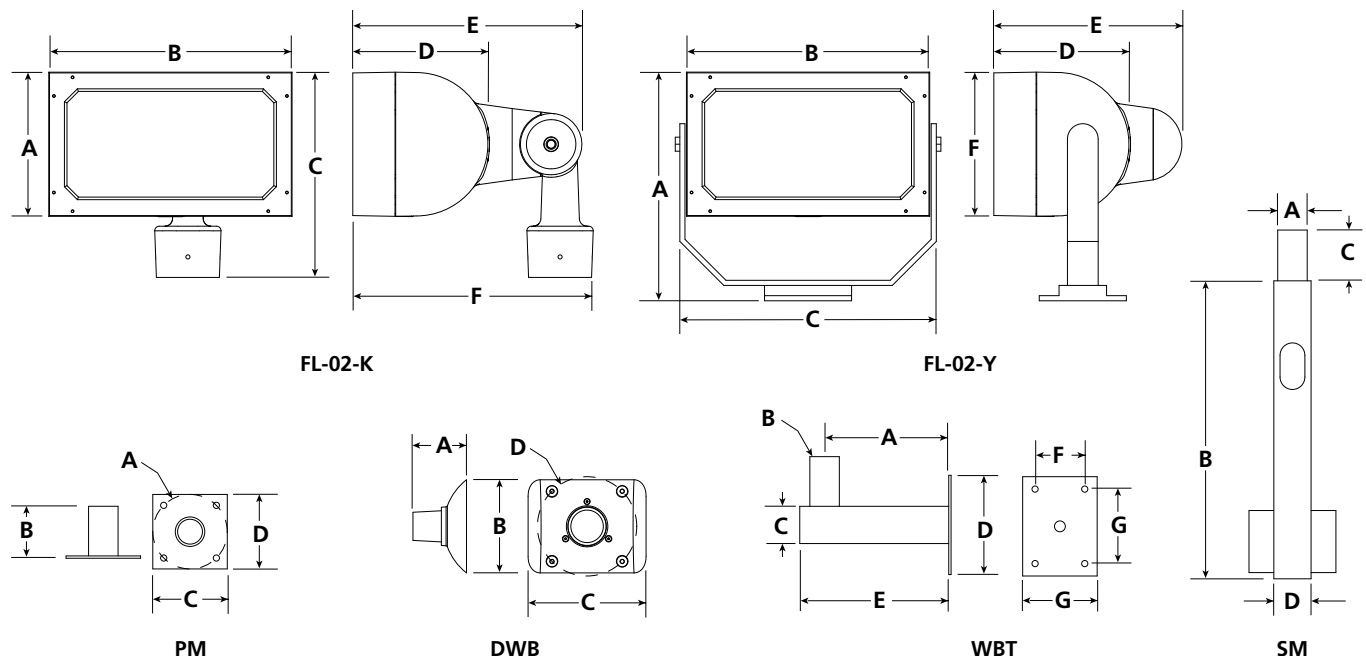
CFT=triple biax, PLH=High

Example: FL-02-K-70MH-E17-277-R3-BK-DWB

FL-02 EPA 0.81 or 0.61 at 45° Tilt

Luminaire Dimensions

Luminaire	A		B		C		D		E		F		G		Weight	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
FL-02-K	7.00	178	11.88	302	10.00	254	6.59	167	11.19	284	11.73	298	n/a	n/a	25	11.3
FL-02-Y	11.16	283	11.88	302	12.52	318	6.59	167	9.18	233	7.00	178	n/a	n/a	20	9.1
PM	6.00	152	4.00	102	6.00	152	6.00	152	n/a	n/a	n/a	n/a	n/a	n/a	3	1.4
SM	2.375	60	24.00	610	4.09	104	3.00	76	n/a	n/a	n/a	n/a	n/a	n/a	4	1.8
WBT	10.00	254	2.375	60	3.00	76	8.00	203	12.00	305	4.00	102	6.00	152	7	3.2
DWB	4.31	109	7.50	191	9.50	241	8.00	203	n/a	n/a	n/a	n/a	n/a	n/a	5	2.3



Specification Grade

Sign Accent

Building Entrances

Doorways

Pedestrian Areas

Walkways

Building Accent

Wall Wash



Specifications



Certifications

ETL and CETL listed for wet location and meets IP65 standard, dust-tight and water-jet proof.

Fixture Housing/Knuckle

The fixture housing is constructed of heavy wall aluminum casting with a minimum 3/16" thickness. The knuckle is constructed of heavy wall die cast aluminum castings.

Lens

Clear tempered 3/16" thick, silicone sealed to lens frame.

Lens Frame

Cast aluminum minimum thickness of 3/16". Attached to fixture housing with two stainless steel hinge pins and two stainless steel cap screws.

Reflectors

Spun aluminum highly specular Alzak™ finish for either type R2 spot (2H2V) or R3 flood (3H3V) distribution. Three segmented asymmetric reflectors are available, types R4 (6H7V), R5 (7H5V) and R6 (7H7V).

Lamp Holder

Porcelain 4kv pulse rated medium base for HID sources.

Options

Color Filter (CF), Polycarbonate Lens Shield (PL), Barndoors (BD), Grid Louver (GL), Visor (V), Fusing (F), Double Fusing (FF), Quartz Standby (QS), Photo Control Button (PCB).


Mounting Detail

The FL-04 Knuckle is field adjustable up to 116° tilt and 360° horizontal rotation and slips over a 2-3/8" tenon. The FL-04 may be horizontal surface mounted using either the Pier Mount (PM) or Stanchion Mount (SM) options. The FL-04 may be wall or pole mounted using the Designer Wall Bracket (DWB) or Standard Wall Bracket (WBT). Call factory for custom mounting arrangements. Mounting hardware and junction box by others.

Finish

BK-BZ-WH-GR-GY-NA thermoset polyester powder coat which is electrostatically applied and bonded by heat fusion thermosetting. CC available upon request.

PROJECT
FIXTURE TYPE
CATALOG#

 Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

Product Order Guide

Series	Mounting Type	Max Watts	Lamp Type	Voltage ¹	Reflector Type	Finish ²	Options
FL-04	K Knuckle	70/100 MH	E17	120	R2 2H2V Spot	BK Black	PCB Photo Control Button
		150 MH	E17	208	R3 3H3V Flood	BZ Bronze	PL Polycarbonate Lens Shield
	Y Yoke	70/150 MH	T6	240	R4 6H7V Asym	WH White	BD Barn Doors
				277	R5 7H5V Asym	GR Green	GL Grid Louver
		70/100 HPS	E17		R6 7H7V Asym	NA Natl Aluminum	V Visor
		150 HPS	E17			GY Gray	DWB Designer Wall Bracket
						CC Custom Color	PM Pier Mount
		26 CFT	CFT				SM Stanchion Mount
		32 CFT	CFT				WBT Wall Bracket with Tenon
		42 CFT	CFT				JBA Junction Box 1/2" NPT Adaptor
							F Fusing
							FF Double Fusing
							QS Quartz Standby

¹ Consult factory for other voltages.

² Consult factory for other finishes. Powder coat paint standard.

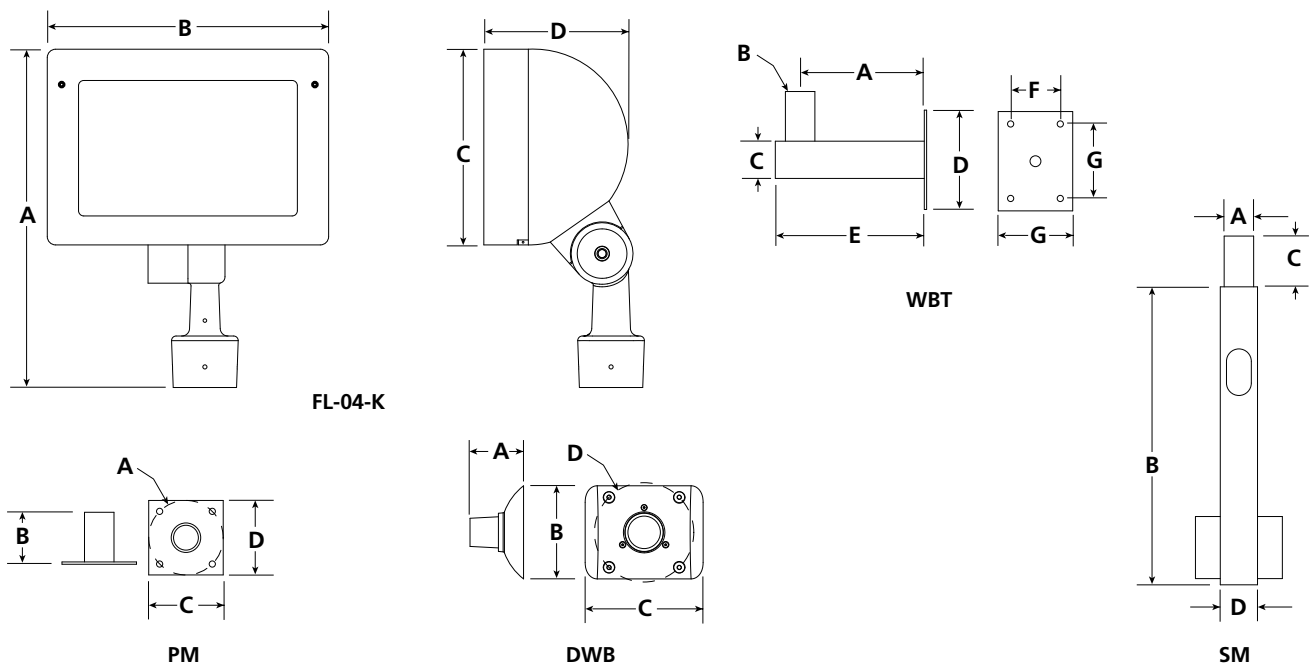
Note: E17 Lamps 150W and below are medium base
CFT=triple biax

Example: FL-04-K-150MH-E17-277-R2-BK-DWB

FL-04 EPA 1.17 or 0.92 at 45° Tilt

Luminaire Dimensions

Luminaire	A		B		C		D		E		F		G		Weight	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
FL-04-K	16.42	417	13.50	343	9.50	241	7.00	178	n/a	n/a	n/a	n/a	n/a	n/a	35	15.9
PM	6.00	152	4.00	102	6.00	152	6.00	152	n/a	n/a	n/a	n/a	n/a	n/a	3	1.4
SM	2.375	60	24.00	610	4.09	104	3.00	76	n/a	n/a	n/a	n/a	n/a	n/a	4	1.8
WBT	10.00	254	2.375	60	3.00	76	8.00	203	12.00	305	4.00	102	6.00	152	7	3.2
DWB	4.31	109	7.50	191	9.50	241	8.00	203	n/a	n/a	n/a	n/a	n/a	n/a	5	2.3



Specification Grade

Landscape Accent

Facade Lighting

Sign Accent

Building Accent

Wall Wash



Specifications



Certifications ETL and cETL listed to U.S. and Canadian safety stands for wet locations

Fixture Housing Single piece extruded aluminum with aluminum glare shield and round die-cast, aluminum end caps.

Lens/Lens Frame Lens is 1/8" tempered glass. Lens bracket is one-piece aluminum extrusion. Integral hinge pivots lens bracket down for easy removal of the lens and relamping.

Reflector Formed hammertone aluminum.

Lamp Holder Fluorescent lampholders are high temperature plastic.

Ballast Ballasts for 13W fluorescent are normal power factor core and coil. Ballasts for 26W and 32W are high power factor electronic.


Options Single stanchion mount, cylindrical J-box, cylindrical J-box with button photocell, single and twin post top mount, canopy and wall mount.

Mounting Detail The FL-12 Knuckle is field adjustable up to 60° back tilt. Swivel arm with locking teeth provides adjustment by tightening one stainless steel recessed screw. Swivel arms include 1/2" N.P.T. male thread for mounting.

Finish BK-BZ-WH are thermoset polyester powder coat. VR finish is hand-rubbed over a black thermoset polyester powder coat. Custom color available upon request.

Warning Fixtures aimed downward must be protected from rain and sprinklers.

PROJECT
FIXTURE TYPE
CATALOG#



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

Product Order Guide

Series	Mounting Type	Max Watts	Lamp Type	Min Start Temp.	Voltage	Finish ²	Options
FL-12	K	(2)13 CF	CF ¹	32°F	120	BK Black	JBC Junction box cylindrical
		(2)26 CF	CF ¹	-20°F	277	BZ Bronze	JBCP1 Junction box cylindrical
		(2)32 CF	CF ¹	-20°F		WH White	120V button photocell
						VR Verde	JBCP2 Junction box cylindrical
						CC Custom Color	277V button photocell
							WCM Wall or canopy mount
							PTS Post top mount single
							PTD Post top mount double
							PTA3 Post top mount
							3" O.D. pole
							SM18 Stanchion mount 18"

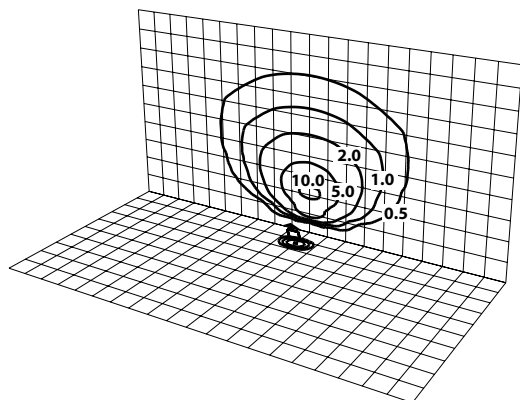
1 Compact fluorescent lamp base options: 13W CF-GX23, 26W CF-GX24Q-3, 32W CF-GX24Q-3.

2 Consult factory for other colors and voltages.

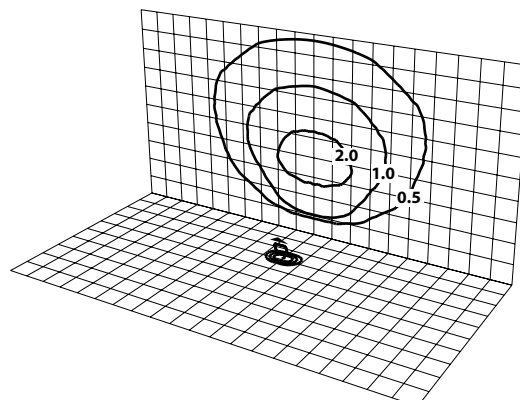
Example: FL-12-K-26CF-CF-120-BK-JBC

Photometric Data

FL-12-32CF
2200 Initial Lumens
1.0 ft. Mounting Height, 3 ft. back, 20° tilt
2.0 ft. grid, Value in footcandles

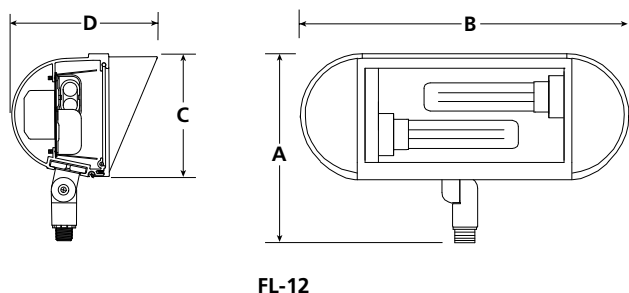


FL-12-32CF
2200 Initial Lumens
1.0 ft. Mounting Height, 4 ft. back, 20° tilt
2.0 ft. grid, Value in footcandles

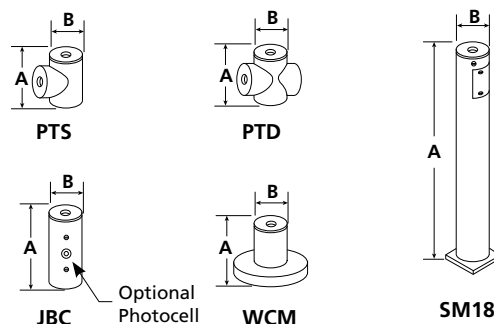


Luminaire Dimensions

Luminaire	A		B		C		D		Weight	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
FL-12	9.00	229	17.75	451	6.00	152	7.00	178	9.0	4.0
JBC	5.75	146	3.00	76	n/a	n/a	n/a	n/a	1.0	0.5
WCM	3.80	97	3.00	76	n/a	n/a	n/a	n/a	1.0	0.5
PTS	4.50	114	3.00	76	n/a	n/a	n/a	n/a	1.0	0.5
SM18	18.00	457	3.00	76	n/a	n/a	n/a	n/a	2.5	1.1



FL-12



JBC

Optional Photocell

WCM

SM18

Specification Grade

Landscape Accent

Facade Lighting

Sign Accent

Building Accent

Wall Wash



Specifications



Certifications ETL and cETL listed to U.S. and Canadian safety stands for wet locations.

Fixture Housing Single piece extruded aluminum with aluminum glare shield and round die-cast, aluminum end caps.

Lens/Lens Frame 1/8" clear acrylic. Lens bracket is one-piece aluminum extrusion. Integral hinge pivots lens bracket down for easy removal of the lens and relamping.

Reflector Formed hammertone aluminum.

Lamp Holder Fluorescent bases are high temperature plastic.


Ballast Ballasts are high power factor electronic.

Options Stanchion mount, cylindrical J-box, and cylindrical J-box with button photocell.

Mounting Detail The FL-14 Knuckle is field adjustable up to 60° back tilt. Swivel arm with locking teeth provides tilt adjustment by tightening one stainless steel recessed screw. Lateral adjustment swivel arm for easy mounting on an additional box for added support. Swivel arms include 1/2" N.P.T. male thread for mounting.

Finish BK-BZ-WH are thermoset polyester powder coat. VR finish is hand-rubbed over a black thermoset polyester powder coat. Custom color available upon request.

Warning Fixtures aimed downward must be protected from rain and sprinklers.

PROJECT
FIXTURE TYPE
CATALOG#
 Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

Product Order Guide

Series	Mounting Type	Max Watts	Lamp Type	Min Start Temp.	Voltage	Finish ²	Options
FL-14	K	(2)40 FL CW ⁴	Biax	-20°F	120 277	BK Black BZ Bronze WH White VR Verde CC Custom Color	JBC ³ Junction box cylindrical JBCP1 ³ Junction box cylindrical 120V button photocell JBCP2 ³ Junction box cylindrical 277V button photocell WCM ³ Wall or canopy mount SM18 ³ Stanchion mount 18"

1 Fluorescent lamp base options: 40W PL-L 2G11.

2 Consult factory for other colors and voltages.

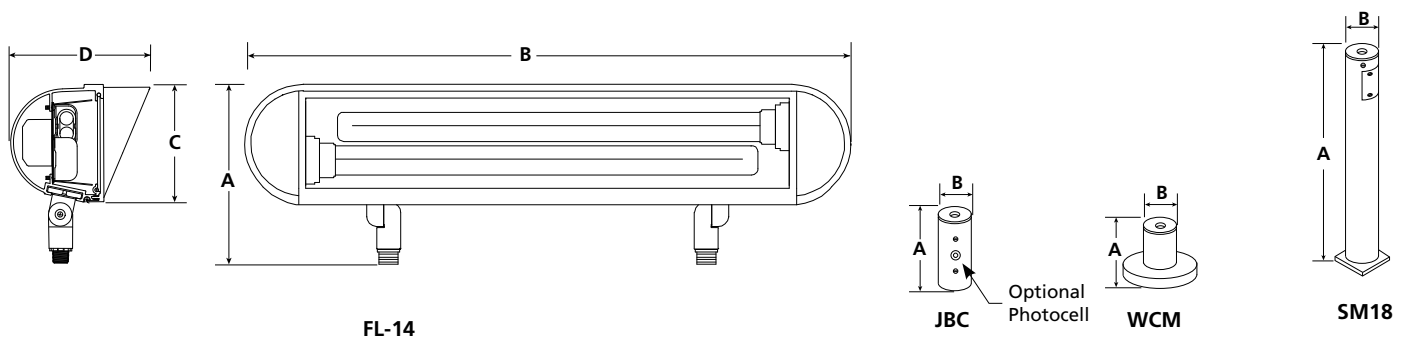
3 (2) support devices required.

4 Cold Weather.

Example: FL-14-K-(2)40FLCW-Biax-120-BK-JBC

Luminaire Dimensions

Luminaire	A		B		C		D		Weight	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
FL-14	9.00	229	30.75	781	6.00	152	7.00	178	14	6.4
JBC	5.75	146	3.00	76	n/a	n/a	n/a	n/a	1.0	0.5
WCM	3.80	97	3.00	76	n/a	n/a	n/a	n/a	1.0	0.5
SM18	18.00	457	3.00	76	n/a	n/a	n/a	n/a	2.5	1.1



Specification Grade

Landscape Accent

Facade Lighting

Sign Accent

Building Accent

Wall Wash



Specifications



Certifications ETL and cETL listed to U.S. and Canadian safety stands for wet locations

Fixture Housing Single piece extruded aluminum with aluminum glare shield and round die-cast, aluminum end caps.

Lens/Lens Frame 1/8" clear acrylic. Lens bracket is one-piece aluminum extrusion. Integral hinge pivots lens bracket down for easy removal of the lens and relamping.

Reflector Formed hammertone aluminum.

Lamp Holder Fluorescent bases are high temperature plastic.

Ballast Ballasts are high power factor electronic.


Options Stanchion mount, cylindrical J-box, and cylindrical J-box with button photocell.

Mounting Detail The FL-18 Knuckle is field adjustable up to 60° back tilt. Swivel arm with locking teeth provides tilt adjustment by tightening one stainless steel recessed screw. Lateral adjustment swivel arm for easy mounting on an additional box for added support. Swivel arms include 1/2" N.P.T. male thread for mounting.

Finish BK-BZ-WH are thermoset polyester powder coat. VR finish is hand-rubbed over a black thermoset polyester powder coat. Custom color available upon request.

Warning Fixtures aimed downward must be protected from rain and sprinklers.

PROJECT
FIXTURE TYPE
CATALOG#



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

Product Order Guide

Series	Mounting Type	Max Watts	Lamp Type	Min Start Temp.	Voltage	Finish ²	Options
FL-18	K	32 FL	T8 ¹	0°F	120	BK Black	JBC ³ Junction box cylindrical
		(2)32 FL	T8 ¹	0°F	277	BZ Bronze	JBCP1 ³ Junction box cylindrical
		54 FL	T5 ¹	-20°F		WH White	120V button photocell
		(2)54 FL	T5 ¹	-20°F		VR Verde	JBCP2 ³ Junction box cylindrical
						CC Custom Color	277V button photocell
							WCM ³ Wall or canopy mount
							SM18 ³ Stanchion mount 18"

1 Compact fluorescent & fluorescent lamp base options: 32FL-G13, 54FL- G5.

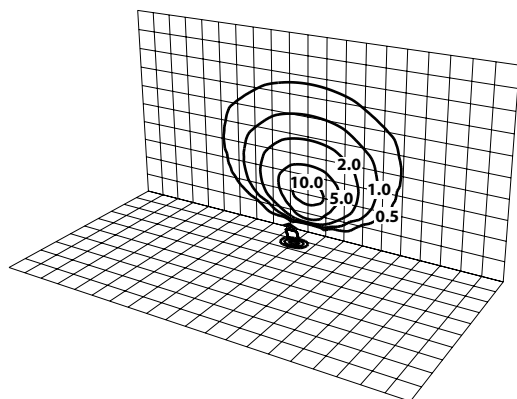
2 Consult factory for other colors and voltages.

3 (2) support devices required.

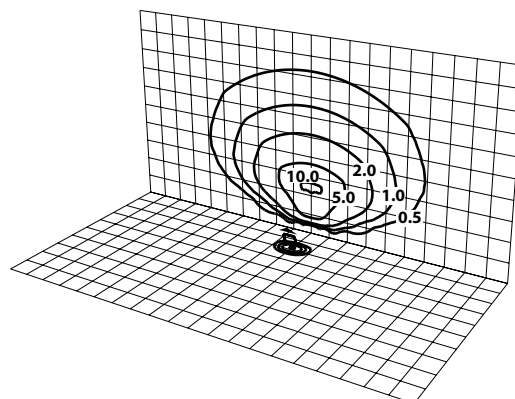
Example: FL-18-K-54FL-T5-120-BK-JBC

Photometric Data

FL-18-32FL
2950 Initial Lumens
1.0 ft. Mounting Height, 3 ft. back, 20° tilt
2.0 ft. grid, Value in footcandles

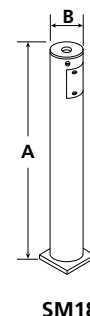
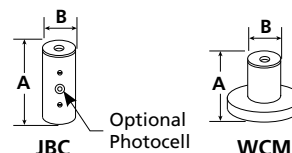
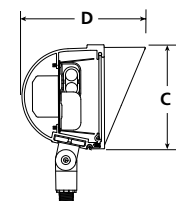


FL-18-2-32FL
2950 Initial Lumens
1.0 ft. Mounting Height, 4 ft. back, 20° tilt
2.0 ft. grid, Value in footcandles



Luminaire Dimensions

Luminaire	A		B		C		D		Weight	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
FL-18	9.00	229	55.50	1410	6.00	152	7.00	178	25	11.3
JBC	5.75	146	3.00	76	n/a	n/a	n/a	n/a	1.0	0.5
WCM	3.80	97	3.00	76	n/a	n/a	n/a	n/a	1.0	0.5
SM18	18.00	457	3.00	76	n/a	n/a	n/a	n/a	2.5	1.1



Landscape Areas

Building Accent

Pedestrian Areas

Tree Lighting

Low Voltage



CA - Curved Arm



UD - Up/Down



SP - Straight Post

Specifications



Certifications

ETL and CETL listed for wet location. Also meets IP65 standard.

Lamp Housing

Die-cast aluminum with die cast aluminum swivel that allows a 75° vertical tilt adjustment on the Up/Down, wall mount and Spike mount housings and 165° vertical tilt adjustment on Curved pole and Straight pole housings.

Lens Ring

Die cast aluminum mounted to lamp housing with three stainless steel cap screws. Clear flat tempered glass is standard.

Lamp Holder

Porcelain 2-pin GU5.3 or GY6.35.

Transformer Housing

Transformer is integral with all versions when 120, 220-240 or 277 is specified. Standard transformer is electronic with 120, 220-240 or 277 volt primary and 12 volt secondary. A JBRs surface mount junction box or other suitable housing must be specified with this feature.

Options

The following options are available: Wall mount curved arm (CA); Wall mount up/down dual head (UD), ground mount mini straight post (SP) and (SM) Spike mount.

Finish

BK-BZ-WH-GR-GY-NA thermoset polyester powder coat which is electrostatically applied and bonded by heat fusion thermosetting. CC available upon request.


Safety

Caution: Care should be taken when specifying fixtures for use in pedestrian areas to avoid problems that may be caused by high lens temperatures. Consult factory for more information.

Warning

Caution: Care should be taken in the placement of landscape floodlights. Avoid areas where landscape maintenance equipment such as lawn mowers may come into direct contact and damage the fixture.

PROJECT
FIXTURE TYPE
CATALOG#

 Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

Consult Cielo Application Brochure For More Options

Product Order Guide

Series	Max Watts	Lamp Type	Voltage	Finish	Options
FL-50	50LV	MR-16	12 120 ¹ 220/240 ¹ 277 ¹	BK Black	UD ² Up/Down Mount
				BZ Bronze	SP Straight Post
				WH White	CA ⁶ Curved Arm
				GR Green	SA ⁶ Straight Arm
				NA Natural Alum.	CP Curved Post
	20HEZ	T4		GY Gray	SP ² Straight Post
				CC Custom Color	JBRS ³ Surface Mount Junction Box
					JBRC Conduit Mount Junction Box
					JBRTM Tree Mount Junction Box
					STNM Stanchion Mount
LED	1X4W	MR-16	120/12 ⁷	WW (warm white) CW (cool white)	LP Low Post (Plastic)
					PTB ⁵ Portable 120/12v
					SM ⁴ Spike Mount
					HSL Horizontal Spread Lens
					VSL Vertical Spread Lens
LED	1X4W	MR-16	120/12 ⁷	CW (cool white)	

¹ Note 120/220-240/277 uses a transformer which requires a JBRS or other suitable housing.

² The U/D option requires a single gang 2" x 4" junction box.

³ The JBRS option requires a 4" octagonal junction box.

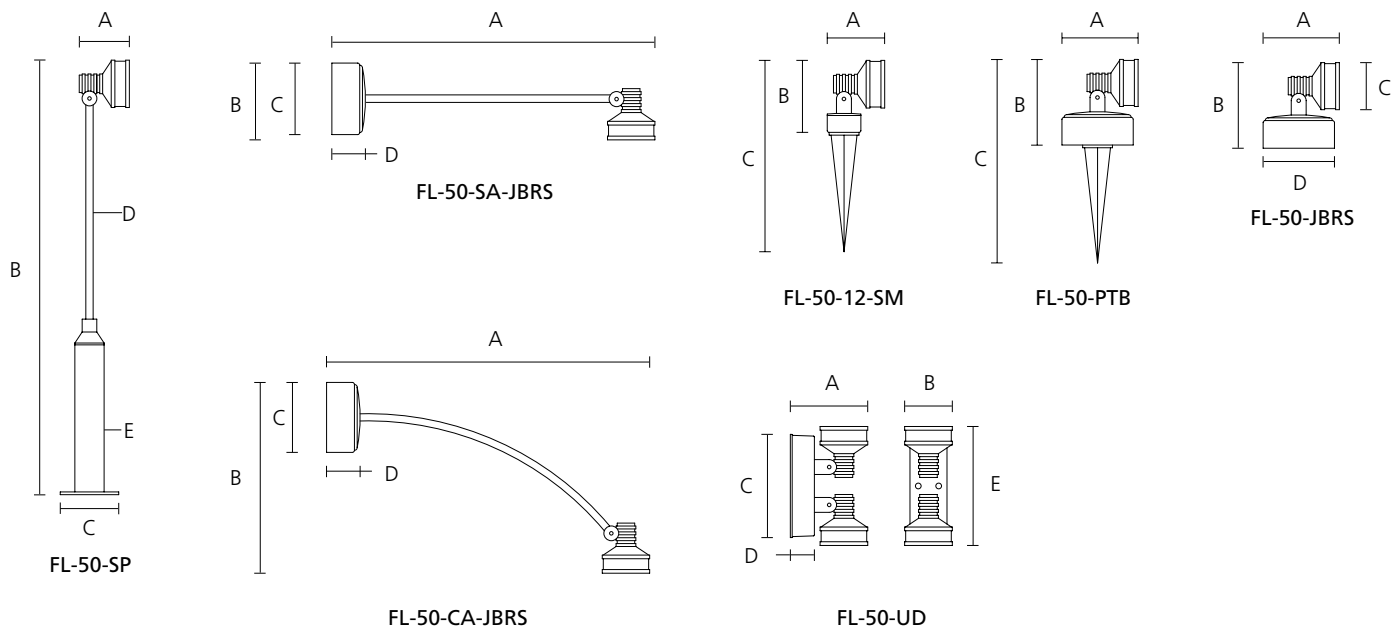
⁴ The SM option is available for LV (12V) and PTB applications only.

- ¹ Note 120/220-240/277 uses a transformer which requires a JBRS or other suitable housing.
- ² The U/D option requires a single gang 2" x 4" junction box.
- ³ The JBRS option requires a 4" octagonal junction box.
- ⁴ The SM option is available for LV (12V) and PTB applications only.
- ⁵ The PTB option is available for 120V portable applications only and must be connected to a GFI outlet.
- ⁶ Specify Junction Box Mounting or Surface Conduit Connection.
- ⁷ 120/12 uses a transformer which requires a JBRS or other suitable housing

Example: FL-50-120-BK-UD

Luminaire Dimensions

Luminaire	A		B		C		D		E		Weight	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs	kg
FL-50-SP	3.5"	89	29.5"	750	4"SQ	102	0.5"OD	13	2"OD	51	2.5	1.1
FL-50-SA	20"	508	5.125"	130	4.750"	120	2.250"	57	n/a	n/a	2.5	1.1
FL-50-CA	22"	559	13"	330	4.750"	120	2.250"	57	n/a	n/a	2.5	1.1
FL-50-SM	3.875"	98	4.875"	124	12.875"	327	n/a	n/a	n/a	n/a	1.25	.5
FL-50-PTB	5.125"	130	5.875"	149	13.875"	352	n/a	n/a	n/a	n/a	1.75	.8
FL-50-JBRS	5.125"	130	5.875"	149	3.250"	82	4.750"	120	n/a	n/a	1.5	.7
FL-50-UD	5.250"	133	3.250"	82	7"	178	1.625"	41	8"	203	3.0	1.4



Specification Grade

Sign Accent

Building Entrances

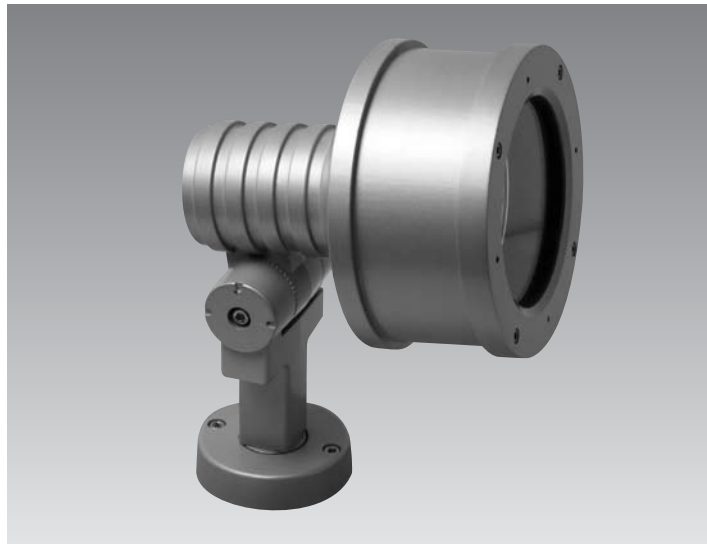
Doorways

Pedestrian Areas

Building Accent

Tree Lighting

Landscape Areas



CIELO

Specifications



Certifications

ETL and CETL listed for wet location and meets IP65 standard, dust-tight and water-jet proof.

Fixture Housing/Knuckle

The housing and the DK (standard) and CK (optional) knuckles are constructed of die cast aluminum castings with a minimum 1/8" thickness. Both knuckles come with 1/2" NPT threads for mounting to standard junction boxes or with an additional cast swivel for mounting to the available ballast housings. The knuckles provide 142° vertical (52° down, 90° up) and 360° horizontal adjustability.

Lens

Clear tempered 3/16" thick, sealed to lens frame with injection molded silicone gasket.

Lens Frame

Die cast aluminum minimum thickness of 1/8". Attached to fixture housing with four captive stainless steel 8-32 socket cap screws.

Adjustable Reflectors

Spun aluminum highly specular Alzak™ finish for either type SPT spot, FLD flood or MFLD medium flood for T6, T4 or BT5 lamps. All reflectors are provided with an adjustable external focusing mechanism.

Lamp Holder

Porcelain 4kv pulse rated medium base for HID and Incandescent lamp sources.

Options

Glass Filter (GF), Medium Visor (MV), Snoot (SN), Linear Spread Lens (LSL), Prismatic Spread Lens (PSL), Internal Hex Cell Louver (HL), Classic Knuckle (CK).

Finish

BK-BZ-WH-GR-GY-NA thermoset polyester powder coat which is electrostatically applied and bonded by heat fusion thermosetting. CC available upon request.

Safety

Caution: Care should be taken when specifying fixtures for use in pedestrian areas to avoid problems that may be caused by high lens and fixture temperatures. Consult factory for more information.


Warning

Caution: Care should be taken not to install in-ground and ground mounted fixtures in areas where water can stand for prolonged periods of time. Sufficient drainage must be provided to avoid problems. Consult factory for more information.

Warning

Caution: Care should be taken in the placement of landscape floodlights. Avoid areas where landscape maintenance equipment such as lawn mowers may come into direct contact and damage the fixture.

PROJECT
FIXTURE TYPE
CATALOG#

 Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

Product Order Guide

Series	Max Watts	Lamp Type	Voltage ¹	Optics	Finish ²	Options
FL-51	26CFT ^{4,8}	CFT	120	SPT (T6/T4/BT5)	BK Black	LSL Linear Spread Lens
	32CFT ^{4,8}	CFT	208	FLD (T6/T4/BT5)	BZ Bronze	PSL Prismatic Spread Lens
			240	MFLD (T6/T4/BT5)	WH White	SN ⁷ Snoot
			277	FLD 6H6V (CFT)	GR Green	MV ⁷ Medium Visor
	20MH ^{4,8}	BT5			NA Natl Aluminum	GF Glass Color Filter
	39MH ^{4,8}	PAR20			GY Gray	HL Internal Hex Cell Louver
	35MH ^{4,8}	R111			CC Custom Color	DK ⁶ Designer Knuckle
	39MH ⁴	T6				CK Classic Knuckle
	70MH ⁴	T6				JBS ³ Junction Box Square
	70MH ⁴	T4				JBR ^{5,3} Junction Box Round
	70MH ⁴	PAR30				JBRTM ³ Tree Mount Junction Box
	50INC	PAR20	120			STNM ³ Stanchion Mount
	50INC	AR111	120			RBB NEMA 3 Remote Ballast Box
	75INC	PAR30	120			LP ³ Plastic Post
	75INC	MR16	120/277/12			CBH Composite Ballast Housing
	100INC	T4mini	120			RCBH Remote CBH
						RWMS ⁵ Remote WMS
						WMR ⁸ Wall Mount Recessed
						WMS ^{5,8} Wall Mount Surface
						EEBH ⁵ Electronic Elliptical Ballast Housing
	LED					UD Up/Down Mount
	1X4W	MR-16	120/12 ⁹	WW (warm white)		CP Curved Post
	1X4W	MR-16	120/12 ⁹	CW (cool white)		SA Straight Arm
						CA Curved Arm
						LV Low Voltage
						PL 90° Post
						DPL 90° Double Post

¹ Consult factory for other voltages.

² Consult factory for other finishes. Powder coat paint standard.

³ Remote ballast required.

⁴ Requires ballast enclosure.

⁵ Specify Junction Box Mounting or Surface Conduit Connection.

⁶ The Designer Knuckle (DK) is provided as standard.

⁷ Care should be taken if these options are used in an up aiming orientation as debris can collect inside and obstruct the light and cause thermal problems. Consult factory for more information.

⁸ A smaller version of the WMR and WMS is available for 39W HID and below on request.

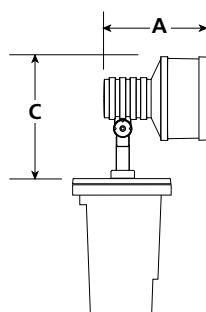
⁹ 120/12 uses a transformer which requires a WMS or other suitable housing

CFT = triple biax

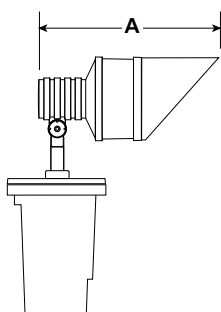
Example: FL-51-70MH-T6-277-SPT-BK-CBH

Luminaire Dimensions

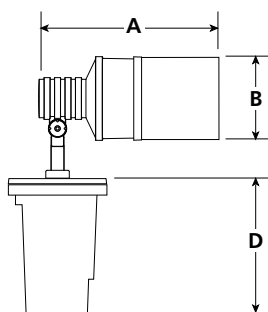
Luminaire	A		B		C		D		E		F		G		Weight	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
FL-51	7.60	193	6.50	165	10.28	261									7.00	3.2
FL-51-CBH	7.60	193	6.50	165	10.28	261	12.00	305							15.00	6.8
FL-51-CBH-MV	13.13	336	6.50	165	10.28	261	12.00	305							16.00	7.3
FL-51-CBH-SN	14.13	359	6.50	165	10.28	261	12.00	305							16.0	7.3
WMS/WMR (up to 39W)									6.38	162			3.50	89	12.50	5.7
WMS/WMR (up to 70W)									9.00	228			5.00	127	12.50	5.7
EEBH									5.54	141	8.00	204	2.55	65	7.00	3.1
FL-51-UD	16.25	413			10.28	261			10.38	264	6.00	152	3.50	89	24.00	10.9



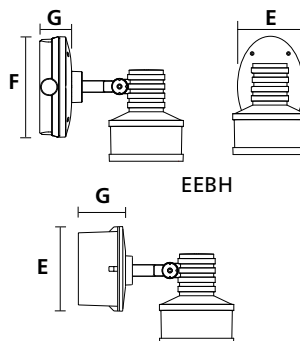
FL-51-CBH



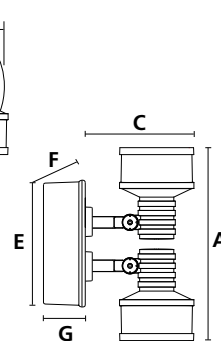
FL-51-CBH-MV



FL-51-CBH-SN



WMS/WMR



UD

Specification Grade

Sign Accent

Building Entrances

Doorways

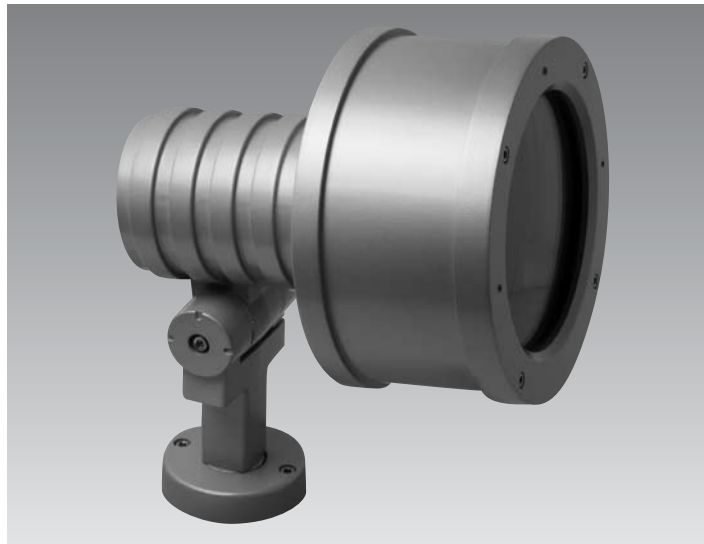
Pedestrian Areas

Walkways

Building Accent

Tree Lighting

Landscape Areas



CIELO

Specifications



Certifications

ETL and CETL listed for wet location and meets IP65 standard, dust-tight and water-jet proof.

Fixture Housing/Knuckle

The housing and the DK (standard) and CK (optional) knuckles are constructed of die cast aluminum castings with a minimum 1/8" thickness. Both knuckles come with 1/2" NPT threads for mounting to standard junction boxes or with an additional cast swivel for mounting to the available ballast housings. The knuckles provide 142° vertical (52° down, 90° up) and 360° horizontal adjustability.

Lens

Clear tempered 3/16" thick, sealed to lens frame with injection molded silicone gasket.

Lens Frame

Die cast aluminum minimum thickness of 1/8". Attached to fixture housing with four captive stainless steel 10-24 socket cap screws.

Adjustable Reflectors

Spun aluminum highly specular Alzak™ finish for either type SPT spot (2H2V) or FLD flood (3H3V) for E17 or T6 lamps. Both reflectors are provided with an adjustable spot to flood external aiming mechanism.

Lamp Holder

Porcelain 4kv pulse rated medium base for HID and Incandescent lamp sources.

Options

Glass Filter (GF), Medium Visor (MV), Snoot (SN), Linear Spread Lens (LSL), Prismatic Spread Lens (PSL), Internal Hex Cell Louver (HL), Classic Knuckle (CK).

Finish

BK-BZ-WH-GR-GY-NA thermoset polyester powder coat which is electrostatically applied and bonded by heat fusion thermosetting. CC available upon request.

Safety

Caution: Care should be taken when specifying fixtures for use in pedestrian areas to avoid problems that may be caused by high lens and fixture temperatures. Consult factory for more information.


Warning

Caution: Care should be taken not to install in-ground and ground mounted fixtures in areas where water can stand for prolonged periods of time. Sufficient drainage must be provided to avoid problems. Consult factory for more information.

Warning

Caution: Care should be taken in the placement of landscape floodlights. Avoid areas where landscape maintenance equipment such as lawn mowers may come into direct contact and damage the fixture.

PROJECT
FIXTURE TYPE
CATALOG#

 Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

Product Order Guide

Series	Max Watts	Lamp Type	Voltage ¹	Optics	Finish ²	Options
FL-52	26CFT ⁴	CFT	120	SPT 2H2V (E17/T6)	BK Black	LSL Linear Spread Lens
	32CFT ⁴	CFT	208	FLD 3H3V (E17/T6)	BZ Bronze	PSL Prismatic Spread Lens
	42CFT ⁴	CFT	240	FLD 6H6V (CFT)	WH White	MV ⁸ Medium Visor
			277		GR Green	SN ⁸ Snoot
	100MH ⁴	PAR38			NA Natl Aluminum	GF Glass Color Filter
	70MH ⁴	T6			GY Gray	HL Internal Hex Cell Louver
	150MH ⁴	T6			CC Custom Color	DK ⁷ Designer Knuckle
	70MH ^{4,6}	E17				CK Classic Knuckle
	100MH ^{4,6}	E17				JBS ³ Junction Box Square
	150MH ^{4,6}	E17				JBR ^{3,5} Junction Box Round
						JBRTM ³ Tree Mount Junction Box
	150HPS ⁴	E17				STNM ³ Stanchion Mount
						LP ³ Plastic Post
	150INC	PAR38	120			CBH Composite Ballast Housing
						RCBH Remote CBH
						WMS ⁵ Wall Mount Surface
						WMR Wall Mount Recessed
						RBB NEMA 3 Remote Ballast Box

¹ Consult factory for other voltages.

² Consult factory for other finishes. Powder coat paint standard.

³ Remote ballast required.

⁴ Requires ballast enclosure.

⁵ Specify Junction Box Mounting or Surface Conduit Connection.

⁶ 150W Upward aiming fixture only.

⁷ The Designer Knuckle (DK) is provided as standard.

⁸ Care should be taken if these options are used in an up aiming orientation as debris can collect inside and obstruct the light and cause thermal problems. Consult factory for more information.

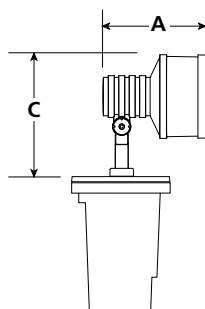
Note: E17 Lamps 150W and below are medium base

CFT = triple bias

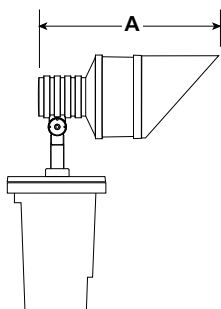
Example: FL-52-100MH-T6-277-SPT-BK-CBH

Luminaire Dimensions

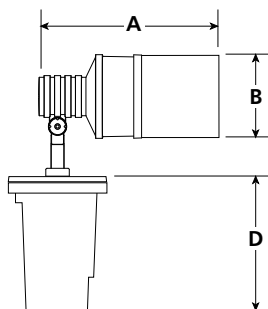
Luminaire	A		B		C		D		E		F		G		Weight	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
FL-52	9.75	248	8.00	203	11.62	295									9.00	4.1
FL-52-CBH	9.75	248	8.00	203	11.62	295	12.00	305							38.00	17.2
FL-52-CBH-MV	16.88	429	8.00	203	11.62	295	12.00	305							39.00	17.7
FL-52-CBH-SN	17.88	454	8.00	203	11.62	295	12.00	305							39.00	17.7
WMR									9.00	228	11.00	280	5.00	127	23.00	10.4
WMS									9.00	228	10.50	268	5.00	127	21.00	9.5



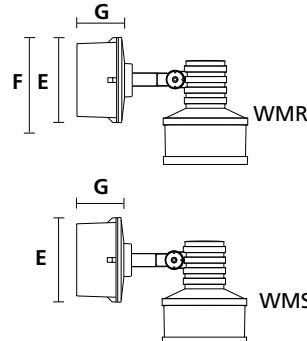
FL-52-CBH



FL-52-CBH-MV



FL-52-CBH-SN



Specification Grade

Sign Accent

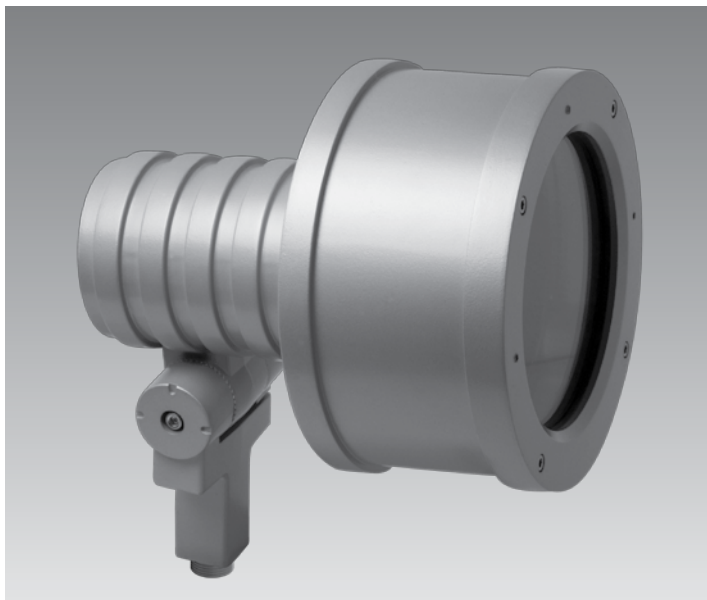
Building Entrances

Doorways

Building Accent

Tree Lighting

Landscape Areas



CIELO

Specifications



Certifications

ETL and CETL listed for wet location and meets IP65 standard, dust-tight and water-jet proof.

Fixture Housing/Knuckle

The housing and the DK (standard) and CK (optional) knuckles are constructed of die cast aluminum castings with a minimum 1/8" thickness. Both knuckles come with 1/2" NPT threads for mounting to standard junction boxes or with an optional cast swivel for mounting to the available ballast housings. The knuckles provide 142° vertical (52° down, 90° up) and 360° horizontal adjustability.

Lens

Clear tempered 3/16" thick, sealed to lens frame with injection molded silicone gasket. Note, 25° or greater LED 3/8" thick clear tempered flat borosilicate glass.

Lens Frame

Die cast aluminum minimum thickness of 1/8". Attached to fixture housing with four captive stainless steel 10-24 socket cap screws.

Power Supply

The HID lamp or LED power supply shall be integral to the fixture.

Reflectors

Spun aluminum highly specular Alzak™ finish for either type SPT spot, FLD flood or MFLD medium flood for T4 or BT5 lamps. The LED reflector options include 10°, 25° and 45° beam spreads.

Lamp Holder

Ceramic 5kv pulse rated for T4 and 2.5kv pulse rated for BT-5 lamp sources.

Options

Glass Filter (GF), Medium Visor (MV), Snoot (SN), Linear Spread Lens (LSL), Prismatic Spread Lens (PSL), Internal Hex Cell Louver (HL), Classic Knuckle (CK).

Finish

BK-BZ-WH-GR-GY-NA thermoset polyester powder coat which is electrostatically applied and bonded by heat fusion thermosetting. CC available upon request.

Safety

Caution: Care should be taken when specifying fixtures for use in pedestrian areas to avoid problems that may be caused by high lens and fixture temperatures. Consult factory for more information.


Warning

Caution: Care should be taken not to install in-ground and ground mounted fixtures in areas where water can stand for prolonged periods of time. Sufficient drainage must be provided to avoid problems. Consult factory for more information.

Warning

Caution: Care should be taken in the placement of landscape floodlights. Avoid areas where landscape maintenance equipment such as lawn mowers may come into direct contact and damage the fixture.

PROJECT
FIXTURE TYPE
CATALOG#



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

2930 South Fairview Street
 Santa Ana, CA 92704
 Phone: 714 668 3660
 Fax: 714 668 1107
sales@allscape.net
<http://www.alllighting.com>

FL-53 INTRA CIELLO

Product Order Guide

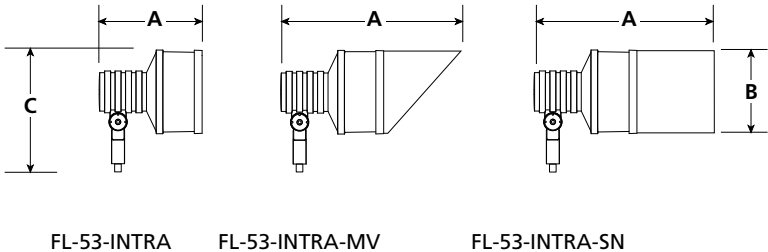
Series	Max Watts	Lamp Type	Voltage ¹	Optics	Finish ^{2,3}		Options	
FL-53	Metal Halide							
	20MH	BT5	120	SPT 1H1V (BT5/T4)	BK	Black	LSL ⁷	Linear Spread Lens
				FLD 2H2V (BT5/T4)	BZ	Bronze	PSL ⁷	Prismatic Spread Lens
	20MH	T4	120	MFLD 4H4V (BT5/T4)	WH	White	MV ⁶	Medium Visor
			208		GR	Green	SN ⁶	Snoot
			240		NA	Natl Aluminum	GF ⁷	Glass Color Filter
			277		GY	Gray	HL ⁷	Internal Hex Cell Louver
					CC	Custom Color	DK ⁵	Designer Knuckle
							CK	Classic Knuckle
							JBS	Junction Box Square
							JBR ⁴	Junction Box Round
							JBRTM	Tree Mount Junction Box
							STNM	Stanchion Mount
							LP	Low Post (plastic)
		LED						
	Titan 25WW ⁷		120-277	10°,25°,45° Warm White (3050°K)				
	Titan 25TC ⁷		120-277	10°,25°,45° TruColor (3050°K) 1290 Raw Lumens				
	Titan 25CW ⁷		120-277	10°,25°,45° Cool (Daylight) White (4700°K)				

- ¹ Consult factory for other voltages.
² Consult factory for other finishes.
³ Powder coat is standard.
⁴ Specify Junction Box Mounting or Surface Conduit Connection.
⁵ The Designer Knuckle (DK) is provided as standard.
⁶ Care should be taken if these options are used in an up aiming orientation as debris can collect inside and obstruct the light and cause thermal problems. Consult factory for more information.
⁷ LED 10° internal option HL or LSL/PSL/GF. Also LED 25°,35°,45° no internal options allowed.

Example: FL-53-20MH-T4-277-SPT-BK

Luminaire Dimensions

Luminaire	A		B		C		Weight	
	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
FL-53-INTRA	9.75	248	8.00	203	11.62	295	10.00	4.5
FL-53-INTRA-MV	16.88	429	8.00	203	11.62	295	11.00	4.9
FL-53-INTRA-SN	17.88	454	8.00	203	11.62	295	12.00	5.4



Landscape Areas

Sign Lighting

Tree Lighting

Building Accent Lighting



FL-61 with EEBH

Specifications



Certifications ETL and CETL listed for wet location, direct burial, and concrete pour. Also meets IP65 standard.

Fixture Housing Die cast aluminum. 1/2" NPS adjustable die cast aluminum knuckle with strength support against vertical displacement. The knuckle provides 135° vertical and 360° horizontal adjustability. Stainless steel screws are used as standard.

Lens Clear tempered 1/8" thick, sealed to lens frame with silicone gasket.

Lens Frame Die cast aluminum minimum thickness of 1/8" attached to fixture housing with four captive stainless steel 6-32 socket cap screws.

Lamp Holder Porcelain 4KV pulse rated for HID and Incandescent lamp source.

Options Cast aluminum ballast housings (EEBH, WMR, WMS). Composite Ballast Housing (CBH). Compression molded Rhinolite™ composite material, structurally reinforced with glass fibers. Glass Color Filter (GF), Visor (MV), Internal Hex Cell Louver (HL).


Finish BK-BZ-WH-GR-GY-NA thermoset polyester powdercoat which is electrostatically applied and bonded by heat fusion thermosetting. CC available upon request.

Safety Caution: Care should be taken when specifying fixtures for use in pedestrian areas to avoid problems that may be caused by high lens temperatures. Consult factory for more information.

Warning Caution: Care should be taken not to install in-ground ballast housings in areas where water can stand for prolonged periods of time. Sufficient drainage must be provided to avoid problems. Consult factory for more information.

Warning Caution: Care should be taken in the placement of landscape floodlights. Avoid areas where landscape maintenance equipment such as lawn mowers may come into direct contact and damage the fixture.

PROJECT
FIXTURE TYPE
CATALOG#



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

FL-61 BELERO

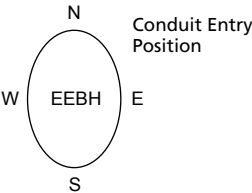
Product Order Guide

Consult Belero Application Brochure For More Options

Series	Max Watts	Lamp Type	Voltage ¹	Finish ¹	Options
FL-61	50INC	PAR 20	120	BK Black	RCBH Remote Composite Ballast Housing
	39MH	PAR 20	120-277	BZ Bronze	CBH Composite Ballast Housing
	39MH	T4-GU6.5 SPT & FLD	120-277	WH White	EEBH ^{2,3,4} Electronic Elliptical Ballast Housing
	50LV	MR16	12/120	GR Green	WMR Wall Mount Recessed
				NA Natl Alum	WMS ² Wall Mount Surface
				GY Gray	HL Internal Hex Cell Louver
				CC Custom	GF Glass Color Filter- (Specify Color)
					UD ² Up/Down Mount
					SP Straight Post
					STNM Stanchion Mount
					JBR ^{2,5} Junction Box Round
					JBS ⁵ Junction Box Square
					JBRTM ⁵ Tree Mount Junction Box
					LP ⁵ Low Post (Plastic)
					PL 90° Post
					DPL 90° Double Post
					CP Curve Post
					SA Straight Arm
					CA Curve Arm
					MV Medium Visor

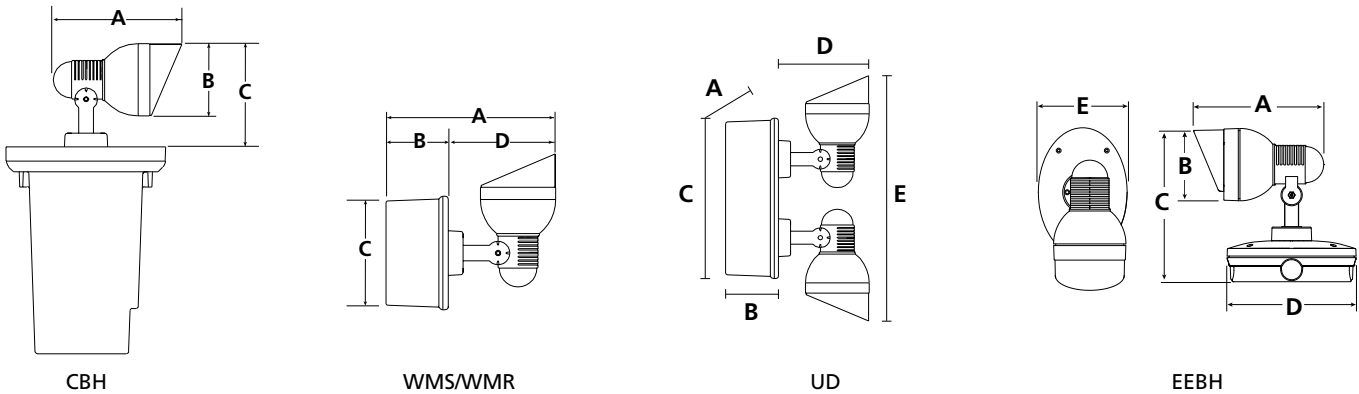
LED's available, consult factory

- 1 Consult factory for other colors and voltages.
- 2 Specify Junction Box Mounting or Surface Conduit Connection.
- 3 4" Octagonal or 2"x 4" J-box for Junction Mounting.
- 4 Specify position (N,S,E,W) of Conduit Entry for Surface Conduit Connection.
- 5 Remote ballast required.



Example: FL-61-39MH-120-PAR20-V-BK-EEBH

Luminaire Dimensions											
Luminaire	A		B		C		D		E		Weight
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs. kg
FL-61	8.10	206	4.50	114	7.00	178	n/a	n/a	n/a	n/a	3.00 1.3
FL-61-WWR	n/a	n/a	3.50	89	6.40	163	7.00	178	n/a	n/a	24.00 10.8
FL-61-WMS	10.10	256	3.50	89	6.40	163	7.00	178	n/a	n/a	24.00 10.8
FL-61-UD	6.00	152	3.50	89	10.40	264	7.00	178	17.00	432	18.00 8.1
FL-61-EEBH	6.00	152	3.50	89	9.50	241	8.00	203	5.50	141	12.00 5.4



Note: dimensions are shown with optional visor

Landscape Areas

Sign Lighting

Tree Lighting

Building Accent Lighting



BELERO

Specifications



Certifications

ETL and CETL listed for wet location and meets IP65 standard, dust-tight and water-jet proof.

Fixture Housing/Knuckle

The housing and the DK (standard) and CK (optional) knuckles are constructed of die cast aluminum with a minimum 1/8" thickness. Both knuckles come with a stainless steel 1/2" NPT fitter for mounting to standard junction boxes or with an optional cast swivel for mounting to the available ballast housings. The knuckles provide 142° vertical (52° down, 90° up) and 360° horizontal adjustability.

Lens

Clear tempered 3/16" thick, sealed to lens frame with injection molded silicone gasket.

Lens Frame

Die cast aluminum minimum thickness of 1/8". Attached to fixture housing with four captive stainless steel 10-24 socket cap screws.

Adjustable Reflectors

Spun aluminum highly specular Alzak™ finish for either type SPT spot (2H2V) or FLD flood (3H3V) for E17 or T6 lamps. Both reflectors are provided with an adjustable spot to flood external aiming mechanism.

Lamp Holder

Porcelain 4kv pulse rated medium base for HID and Incandescent lamp sources.

Options

Glass Filter (GF), Medium Visor (MV), Snoot (SN), Linear Spread Lens (LSL), Prismatic Spread Lens (PSL), Internal Hex Cell Louver (HL), Classic Knuckle (CK).

Finish

BK-BZ-WH-GR-GY-NA thermoset polyester powdercoat which is electrostatically applied and bonded by heat fusion thermosetting. CC available upon request.

Safety

Caution: Care should be taken when specifying fixtures for use in pedestrian areas to avoid problems that may be caused by high lens and fixture temperatures. Consult factory for more information.


Warning

Caution: Care should be taken not to install in-ground and ground mounted fixtures in areas where water can stand for prolonged periods of time. Sufficient drainage must be provided to avoid problems. Consult factory for more information.

Warning

Caution: Care should be taken in the placement of landscape floodlights. Avoid areas where landscape maintenance equipment such as lawn mowers may come into direct contact and damage the fixture.

PROJECT
FIXTURE TYPE
CATALOG#



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

FL-62

BELERO

Product Order Guide
Consult Belero Application Brochure For More Options

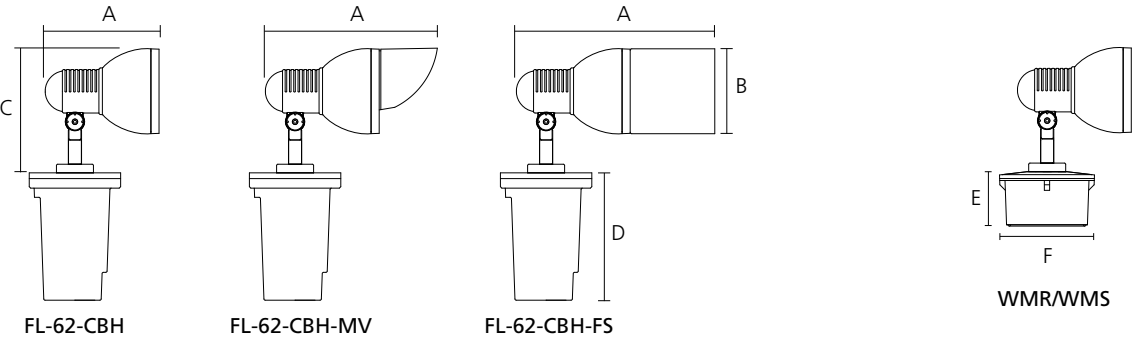
Series	Max Watts	Lamp Type	Voltage ¹	Optics	Finish ²	Options
FL-62	26CFT ⁴	CFT	120	SPT 2H2V (E17/T6)	BK Black	LSL Linear Spread Lens
	32CFT ⁴	CFT	208	FLD 3H3V (E17/T6)	BZ Bronze	PSL Prismatic Spread Lens
	42CFT ⁴	CFT	240	FLD 6H6V (CFT)	WH White	MV ⁸ Medium Visor
			277		GR Green	SN ⁸ Snoot
					NA Natl Aluminum	GF Glass Color Filter
					GY Gray	HL Internal Hex Cell Louver
					CC Custom Color	DK ⁷ Designer Knuckle
	70MH ⁴	PAR38				RCBH Remote CBH
	100MH ⁴	PAR38				CBH Composite Ballast Housing
	70MH ⁴	T6				CK Classic Knuckle
	150MH ⁴	T6				JBS ⁴ Junction Box Square
	100MH ^{4,6}	E17				JBR ^{4,5} Junction Box Round
	150MH ^{4,6}	E17				JBRTM ⁴ Tree Mount Junction Box
						STNM ⁴ Stanchion Mount
	150INC	PAR38	120			LP ⁴ Plastic Post
						WMS ⁵ Wall Mount Surface
						WMR Wall Mount Recessed
						RBB NEMA 3 Remote Ballast Box

- ¹ Consult factory for other voltages.
² Consult factory for other finishes. Powder coat paint standard.
³ Remote ballast required.
⁴ Requires ballast enclosure.
⁵ Specify Junction Box Mounting or Surface Conduit Connection.
⁶ 150W Upward aiming fixture only.
⁷ The Designer Knuckle (DK) is provided as standard.
⁸ Care should be taken if these options are used in an up aiming orientation as debris can collect inside and obstruct the light and cause thermal problems. Consult factory for more information.

Note: E17 Lamps 150W and below are medium base
CF=single biax, CFQ = double biax, CFT = triple biax

Example: FL-62-100MH-T6-277-SPT-BK-CBH

Luminaire Dimensions													
Luminaire	A		B		C		D		E		F		Weight
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs. kg
FL-62	10.75	273	8.00	203	11.62	295	12.00	305	n/a	n/a	n/a	n/a	8.00 3.6
FL-62-CBH-MV	16.25	413	8.00	203	11.62	295	12.00	305	n/a	n/a	n/a	n/a	41.00 18.5
FL-62-CBH-FS	18.75	476	8.00	203	11.62	295	12.00	305	n/a	n/a	n/a	n/a	38.00 17.2
WMR/WMS	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5.00	127	9.00	228	20.00 9.0



Landscape Areas

Sign Lighting

Tree Lighting

Building Accent Lighting



FL-63 with Medium Visor, integral ballast

Specifications



Certifications

ETL and CETL listed for wet location and meets IP65 standard, dust-tight and water-jet proof.

Fixture Housing/Knuckle

The housing and the DK (standard) and CK (optional) knuckles are constructed of die cast aluminum castings with a minimum 1/8" thickness. Both knuckles come with 1/2" NPT threads for mounting to standard junction boxes or with an optional cast swivel for mounting to the available ballast housings. The knuckles provide 142° vertical (52° down, 90° up) and 360° horizontal adjustability.

Lens

Clear tempered 3/16" thick, sealed to lens frame with injection molded silicone gasket. Note, 25° or greater LED 3/8" thick clear tempered flat borosilicate glass.

Lens Frame

Die cast aluminum minimum thickness of 1/8". Attached to fixture housing with four captive stainless steel 10-24 socket cap screws.

Power Supply

The HID lamp or LED power supply shall be integral to the fixture.

Reflectors

Spun aluminum highly specular Alzak™ finish for either type SPT spot, FLD flood or MFLD medium flood for T4 or BT5 lamps. The LED reflector options include 10°, 25° and 45° beam spreads.

Lamp Holder

Ceramic 5kv pulse rated for T4 and 2.5kv pulse rated for BT-5 lamp sources.

Options

Glass Filter (GF), Medium Visor (MV), Snoot (SN), Linear Spread Lens (LSL), Prismatic Spread Lens (PSL), Internal Hex Cell Louver (HL), Classic Knuckle (CK).

Finish

BK-BZ-WH-GR-GY-NA thermoset polyester powder coat which is electrostatically applied and bonded by heat fusion thermosetting. CC available upon request.

Safety

Caution: Care should be taken when specifying fixtures for use in pedestrian areas to avoid problems that may be caused by high lens and fixture temperatures. Consult factory for more information.


Warning

Caution: Care should be taken not to install in-ground and ground mounted fixtures in areas where water can stand for prolonged periods of time. Sufficient drainage must be provided to avoid problems. Consult factory for more information.

Warning

Caution: Care should be taken in the placement of landscape floodlights. Avoid areas where landscape maintenance equipment such as lawn mowers may come into direct contact and damage the fixture.

PROJECT
FIXTURE TYPE
CATALOG#



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

FL-63

INTRA BELERO

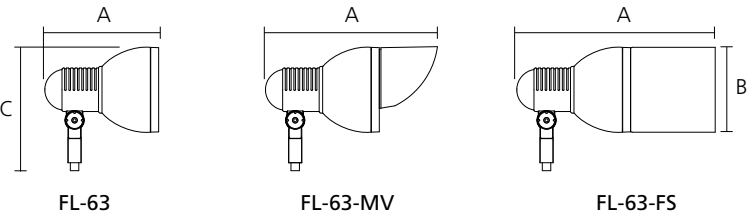
Product Order Guide

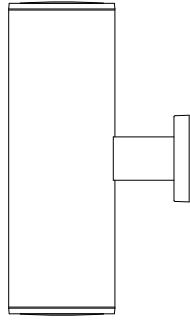
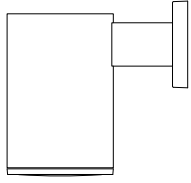
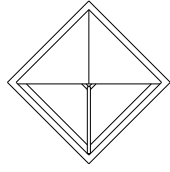
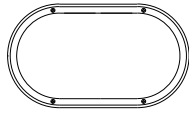
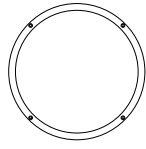
Series	Max Watts	Lamp Type	Voltage ¹	Optics	Finish ²		Options	
FL-63	Metal Halide							
	20MH	BT5	120	SPT 1H1V (BT5/T4)	BK	Black	LSL ⁶	Linear Spread Lens
				FLD 2H2V (BT5/T4)	BZ	Bronze	PSL ⁶	Prismatic Spread Lens
	20MH	T4	120-277	MFLD 4H4V (BT5/T4)	WH	White	MV ⁵	Medium Visor
					GR	Green	SN ⁵	Snoot
					NA	Natl Aluminum	GF ⁶	Glass Color Filter
					GY	Gray	HL ⁶	Internal Hex Cell Louver
					CC	Custom Color	DK ⁴	Designer Knuckle
							CK	Classic Knuckle
							JBS	Junction Box Square
							JBR ³	Junction Box Round
							JBRTM	Tree Mount Junction Box
							STNM	Stanchion Mount
							LP	Plastic Post
	LED							
	Titan 25WW ⁶		120-277	10°,25°,45° Warm White (3050°K)				
	Titan 25TC ⁶		120-277	10°,25°,45° TruColor Warm White (3050°K)			1290 Raw Lumens	
	Titan 25CW ⁶		120-277	10°,25°,45° Cool (Daylight) White (4700°K)				

- ¹ Consult factory for other voltages.
- ² Consult factory for other finishes. Powder coat paint standard.
- ³ Specify Junction Box Mounting or Surface Conduit Connection.
- ⁴ The Designer Knuckle (DK) is provided as standard.
- ⁵ Care should be taken if these options are used in an up aiming orientation as debris can collect inside and obstruct the light and cause thermal problems. Consult factory for more information.
- ⁶ LED 10° internal option HL or LSL/PSL/GF. LED 25°,45° no internal options allowed.

Example: FL-63-20MH-T4-277-SPT-BK

Luminaire Dimensions								
Luminaire	A		B		C		Weight	
	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
FL-63	10.75	273	8.00	203	11.62	295	9.00	4.0
FL-63-MV	16.25	413	8.00	203	11.62	295	12.00	5.4
FL-63-FS	18.75	476	8.00	203	11.62	295	10.00	4.5





BUILDING MOUNT

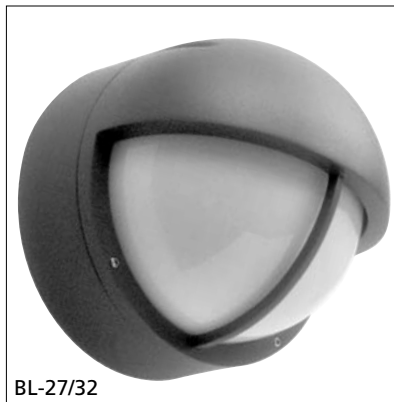
Building Mount
10-1/2" or 14" Dia.
Corridor
Walkways
Accent
Building Entrances



BL-25/30



BL-26/31



BL-27/32



BL-28/33

Specifications



Certifications

The fixture shall be ETL and CETL listed for wet location. Also meets IP65 standard.

Ballast Housing

Cast aluminum with a minimum thickness of 1/8". Mounting plate welded to ballast housing for J-box mounting. Conduit mounting available, consult factory. Housing is fully gasketed with 3/16" extruded EDPM cord gasket.

Lens Frame

Cast aluminum mounted to ballast housing with 10-24 stainless steel Allen cap screws.

Lens

Opal UV-stabilized polycarbonate (OP) is standard. Lens supplied with one-piece extruded silicone gasket.


Ballast

Fluorescent ballast for CFT lamps are electronic (minus 20° C). Other fluorescent 13- through 18-watt quad tube is core & coil (0° C).

Finish

BK-BZ-WH-GR-GY-NA thermoset polyester powder coat which is electrostatically applied and bonded by heat fusion thermosetting. CC available upon request.

PROJECT
FIXTURE TYPE
CATALOG#



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

BL-25/26/27/28

30/31/32/33

Product Order Guide

Series	Max Watts	Lamp Type	Voltage ¹	Finish ¹	Options
BL-25/26/27/28	26 CFT	CFT ²	120	BK Black	EMG ⁴ Emergency Battery Backup
	(2) 26 CFT	CFT ²	208	BZ Bronze	
	32 CFT	CFT ²	240	WH White	
	42 CFT	CFT ²	277	GR Green	
	13 CFQ	CFQ ²		NA Natural Aluminum	
	(2) 13 CFQ	CFQ ²		GY Gray	
	18 CFQ	CFQ ²		CC Custom Color	
	(2) 18 CFQ	CFQ ²			
	21 Watt 2-D	F212D			
	50 MH	E17			
	70 MH	E17			
	50 HPS ³	E17			
	70 HPS ³	E17			
BL-30/31/32/33	26 CFT	CFT ²			
	(2) 26 CFT	CFT ²			
	32 CFT	CFT ²			
	(2) 32 CFT	CFT ²			
	42 CFT	CFT ²			
	(2) 42 CFT	CFT ²			
	38 Watt 2-D	F382D			
	50 MH	E17			
	70 MH	E17			
	100 MH	E17			
	50 HPS	E17			
	70 HPS	E17			
	100 HPS	E17			

1 Consult factory for other colors and voltages

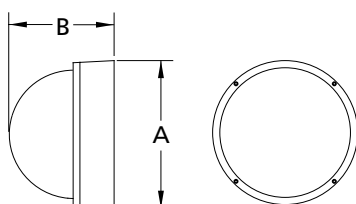
2 CFQ = double biax, CFT = triple biax

3 70 HPS 120V only

4 BL-25/26/27/28 require remote EMG

Luminaire Dimensions

Luminaire	A		B		Weight	
	Inch	mm	Inch	mm	lbs.	kg
BL-25	10.50	267	7.90	201	12	5.4
BL-26	10.50	267	8.50	216	12	5.4
BL-27	10.50	267	8.50	216	12	5.4
BL-28	10.50	267	8.40	213	12	5.4
BL-30	14.00	356	7.90	201	16	7.3
BL-31	14.00	356	10.50	267	16	7.3
BL-32	14.00	356	10.50	267	16	7.3
BL-33	14.00	356	10.40	264	16	7.3



Building Mount
10-1/2" or 14" Dia.
Corridor
Walkways
Accent
Building Entrances



Specifications



Certifications The fixture shall be ETL and CETL listed for wet location.

Ballast Housing Cast aluminum with a minimum thickness of 1/8". Mounting plate welded to ballast housing for J-box mounting. Housing is fully gasketed with 3/16" extruded EDPM cord gasket.


Lens Frame Cast aluminum mounted to ballast housing with 8-32 or 10-24 stainless steel flat head screws.

Lens Opal UV-stabilized polycarbonate (OP) is standard. Lens supplied with a one-piece extruded silicone gasket.

Ballast Fluorescent ballasts for CFT and lamps are electronic (minus 20° C). Other fluorescent 13- through 26-watt quad tube is core & coil (0° C).

Finish BK-BZ-WH-GR-GY-NA thermoset polyester powder coat which is electrostatically applied and bonded by heat fusion thermosetting. CC available upon request.

PROJECT
FIXTURE TYPE
CATALOG#



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

BL-36/37/38/39

Product Order Guide

Series	Max Watts	Lamp Type	Voltage ¹	Finish ¹	Options
BL-36/37	13 CFQ	CFQ ²	120	BK Black	EMG ³ Emergency Battery Backup
	(2) 13 CFQ	CFQ ²	208	BZ Bronze	
	18 CFQ	CFQ ²	240	WH White	
	(2) 18 CFQ	CFQ ²	277	GR Green	
	26 CFT	CFT ²		NA Natural Aluminum	
	(2) 26 CFT	CFT ²		GY Gray	
	32 CFT	CFT ²		CC Custom Color	
	42 CFT	CFT ²			
	50 MH	E17			
	70 MH	E17			
	50HPS	E17			
	70HPS	E17			
	26 CFT	CFT ²			
	(2) 26 CFT	CFT ²			
BL-38/39	32 CFT	CFT ²			
	(2) 32 CFT	CFT ²			
	42 CFT	CFT ²			
	(2) 42 CFT	CFT ²			
	50 MH	E17			
	70 MH	E17			
	100 MH	E17			
	50 HPS	E17			
	70 HPS	E17			
	100 HPS	E17			

1 Consult factory for other colors and voltages

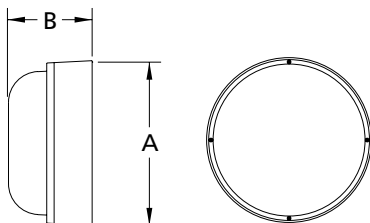
2 CFQ = double biax, CFT = triple biax

3 BL-36 and BL-37 require remote EMG. 750 lumens output for 30 minutes, -20F start temperature. 10' remote distance lamp to backup.

Example: BL-36-70MH-E17-277-WH

Luminaire Dimensions

Luminaire	A		B		Weight	
	Inch	mm	Inch	mm	lbs.	kg
BL-36	10.50	267	7.00	178	11	5.0
BL-37	10.50	267	6.50	165	11	5.0
BL-38	14.00	356	7.50	190	15	6.8
BL-39	14.00	356	7.00	178	15	6.8



Building Mount
Corridor
Walkways
Accent
Building Entrances



BL-44



BL-45



BL-47



BL-48



BL-49

Specifications



Certifications

The fixture shall be ETL and CETL listed for wet location. Also meets IP65 standard.

Ballast Housing

Cast aluminum with a minimum thickness of 1/8". Mounting plate welded to ballast housing for J-box mounting. Conduit mounting available, consult factory. Housing is fully gasketed with 3/16" extruded EDPM cord gasket.

Lens Frame

Cast aluminum mounted to ballast housing with 10-24 stainless steel Allen cap screws.

Lens

Opal UV-stabilized polycarbonate (OP) is standard. Lens supplied with one-piece extruded silicone gasket.


Ballast

Fluorescent ballast for CFT lamp is electronic (minus 20° C). Other fluorescent 13- through 18-watt quad tube is core & coil (0° C).

Finish

BK-BZ-WH-GR-GY-NA thermoset polyester powder coat which is electrostatically applied and bonded by heat fusion thermosetting. CC available upon request.

PROJECT
FIXTURE TYPE
CATALOG#



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

BL-44/45/47

48/49

Product Order Guide

Series	Max Watts	Lamp Type	Voltage ¹	Finish ¹	Options
BL-44/45/47/48/49	26 CFT	CFT ²	120	BK Black	EMG Emergency Battery Backup
	(2) 26 CFT	CFT ²	208	BZ Bronze	
	32 CFT	CFT ²	240	WH White	
	42 CFT	CFT ²	277	GR Green	
	(2) 13 CFQ	CFQ ²		NA Natural Aluminum	
	(2) 18 CFQ	CFQ ²		GY Gray	
				CC Custom Color	
	50 MH	E17			
	70 MH	E17			
	50 HPS	E17			
	70 HPS	E17			

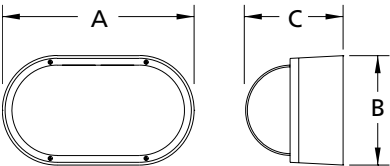
1 Consult factory for other colors and voltages
2 CF = single biax, CFQ = double biax, CFT = triple biax

Note: EMG 750 lumens output for 30 minutes, -20F start temperature. 10' remote distance lamp to backup.

Example: BL-48-70MH-E17-277-WH

Luminaire Dimensions

Luminaire	A		B		C		Weight	
	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
BL-44	14.00	356	8.00	203	7.50	191	9	4.1
BL-45	14.00	356	8.00	203	7.50	191	11	4.9
BL-47	14.00	356	8.00	203	7.50	191	12	5.4
BL-48	14.00	356	8.00	203	7.50	191	9	4.1
BL-49	14.00	356	8.00	203	7.50	191	11	4.9



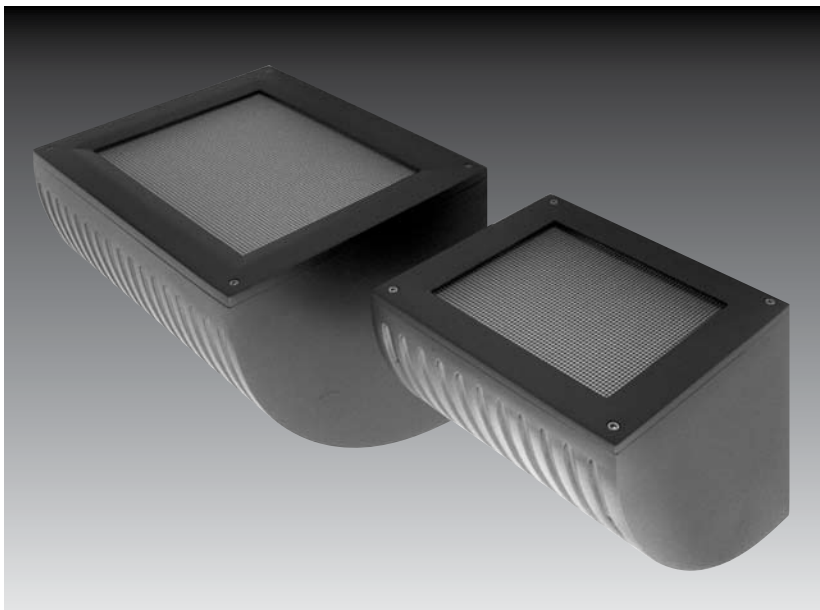
Building Mount

Corridor

Walkways

Accent

Building Entrances



Specifications



Certifications The fixture shall be ETL and CETL listed for wet location. Also meets IP65 standard.

Ballast Housing Cast aluminum.

Lens Frame Cast aluminum mounted to ballast housing with stainless steel screws.


Lens The lens shall be clear tempered glass (BL-80), optional clear tempered prismatic with spot and flood reflector. The lens shall be clear tempered glass (BL-81).

Reflector The reflector shall be an adjustable (40°) asymmetric reflector (BL-81). Optional spot and flood reflectors available.

Up/Down Mounting Each fixture can be mounted in an upward or downward orientation.

Finish BK-BZ-WH-GR-GY-NA thermoset polyester powder coat which is electrostatically applied and bonded by heat fusion thermosetting. CC available upon request.

PROJECT
FIXTURE TYPE
CATALOG#



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

BL-80/81

Product Order Guide

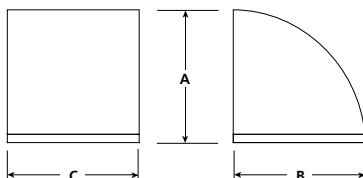
Series	Max Watts	Lamp Type	Voltage ¹	Lens	Finish ¹	Options
BL-80	26 CFT	CFT ²	120	PG Prismatic Tempered Glass	BK Black	CG Clear Tempered Glass
	32 CFT	CFT ²	208	CG Clear Tempered Glass (standard)	BZ Bronze	SPT Spot 1V1H T6 Only
	42 CFT	CFT ²			WH White	FLD Flood 3V3H T6 Only
					GR Green	PG Prismatic Tempered Glass
	50 HPS	E17	208		NA Natural Aluminum	ADJ Adjustable Asymmetric
	70 HPS	E17			GY Gray	SPT Spot 1V1H
					CC Custom Color	FLD Flood 3V3H
	50 MH	E17	240			PCC Photo Control
	70 MH	E17				EMG ⁴ Emergency Battery Backup
	39 MH	T6				
	70 MH	T6	277			
BL-81	42 CFT	CFT ²		PG Prismatic Tempered Glass		
	(2) 42 CFT	CFT ²		CG Clear Tempered Glass (standard)		
	100 MH	E17				
	150 MH	E17				
	150 MH	T6				
LED	100 HPS	E17				
	150 HPS	E17				
LED	Titan 25WW ³		120-277	25°, 45° Warm White (3050°K)		
	Titan 25CW ³		120-277	25°, 45° Cool (Daylight) White (4700°K)		

- 1 Consult factory for other colors and voltages
2 CF = single biax, CFQ = double biax, CFT = triple biax
3 25W Titan from Lamina
4 BL-80 requires remote EMG. 750 lumens output for 30 minutes, -20F start temperature. 10' remote distance lamp to backup.

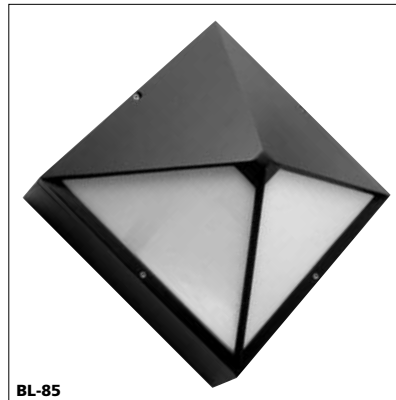
Example: BL-80-70MH-E17-240-PG-BK

Luminaire Dimensions

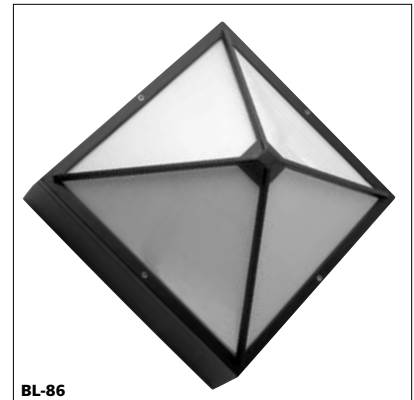
Luminaire	A		B		C		Weight	
	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
BL-80	9.00	229	8.75	222	9.75	248	12	5.4
BL-81	12.00	305	12.50	318	14.50	368	33	14.9



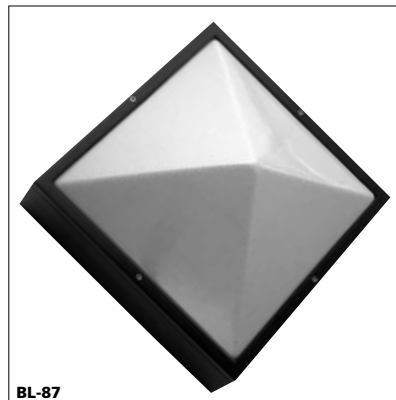
Building Mount
14" Square
Corridor
Walkways
Accent
Building Entrances



BL-85



BL-86



BL-87



BL-89

Specifications



Certifications

The fixture shall be ETL and CETL listed for wet location. Also meets IP65 standard

Ballast Housing

Cast aluminum with a minimum thickness of 1/8". Mounting plate welded to ballast housing for J-box mounting. Conduit mounting available, consult factory. Housing is fully gasketed with 3/16" extruded EDPM cord gasket.

Lens Frame

Cast aluminum mounted to ballast housing with 10-24 stainless steel Allen cap screws.

Lens

Opal UV-stabilized polycarbonate (OP) is standard on the BL-85/86/87. Lens supplied with one-piece extruded silicone gasket. The BL-89 lens shall be tempered flat and textured P62 glass with silicone gasket.


Ballast

Fluorescent ballasts for 42CFT and 2-D lamps are electronic (minus 20° C). Other fluorescent 13- through 26-watt quad tube is core & coil (0° C).

Finish

BK-BZ-WH-GR-GY-NA thermoset polyester powder coat which is electrostatically applied and bonded by heat fusion thermosetting. CC available upon request.

PROJECT
FIXTURE TYPE
CATALOG#



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BL-85/86/87/89

Product Order Guide

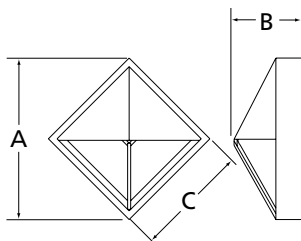
Series	Max Watts	Lamp Type	Voltage ¹	Finish ¹	Options
BL-85/86/87/89	26 CFT	CFT ²	120	BK Black	EMG ³ Emergency Battery Backup
	(2) 26 CFT	CFT ²	208	BZ Bronze	
	32 CFT	CFT ²	240	WH White	
	42 CFT	CFT ²	277	GR Green	
				NA Natural Aluminum	
	50 MH	E17		GY Gray	
	70 MH	E17		CC Custom Color	
	50 HPS	E17			
	70 HPS	E17			

- 1 Consult factory for other colors and voltages
2 CF = single biax, CFQ = double biax, CFT = triple biax
3 EMG 750 lumens output for 30 minutes, -20F start temperature. 10' remote distance lamp to backup

Example: BL-85-70MH-E17-240-BK

Luminaire Dimensions

Luminaire	A		B		C		Weight	
	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
BL-85	20.00	508	8.50	216	14.00	356	17	7.7
BL-86	20.00	508	8.50	216	14.00	356	15	6.8
BL-87	20.00	508	8.00	203	14.00	356	15	6.8
BL-89	20.00	508	8.62	219	14.00	356	17	7.7



Building Entrances

Doorways

Walkways

Accent and

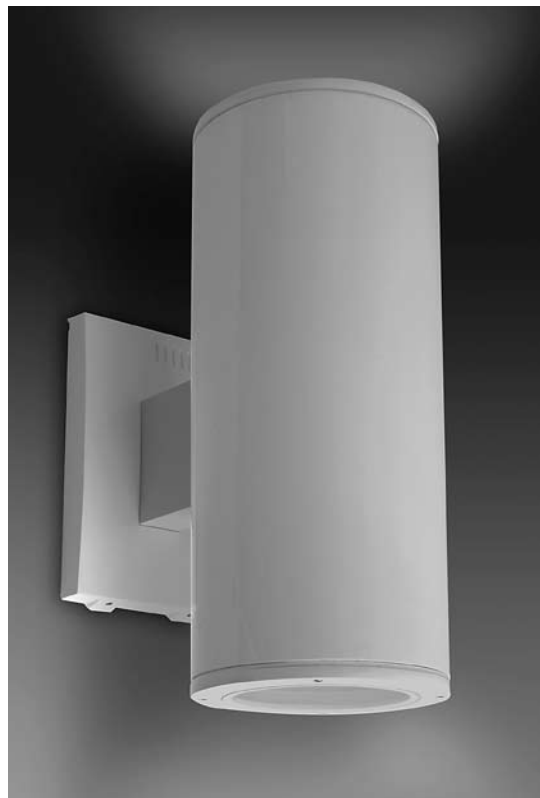
General Lighting



BL-125



BL-126



BL-127-UD Up/Downlight

Specifications



Certifications

The fixture shall be ETL and CETL listed for wet location and have a protection rating of IP65, dust-tight and jet-water proof.

Housing

The housing shall be constructed of extruded aluminum and cast aluminum door frames.

Ballast

The ballast shall be readily accessible, removable and insulated.
The fixture is to be pre-wired and electronically tested before shipment.

Lens

The lens shall be clear tempered glass.

Reflector

The reflector shall be textured aluminum and silver anodized.

Mounting Detail

The fixture shall be pendant, ceiling or wall mounted.

Pendant mounting detail — supported by a 5/8" diameter aluminum pipe (specify length) with hang straight bracket (maximum 30° slope) and canopy for mounting to 4" octagon box. Mounting hardware by others.

Surface mounting detail — attached to ceiling through two 1/4" holes at 180° with 6-5/16" bolt circle. Mounting hardware by others.

Wall mounting detail — wall mounting plate is attached to wall through four 1/2" holes at 90° on a 6"h x 4"w bolt pattern to mount over 4" octagon box. Mounting hardware by others.


Hardware

All exposed hardware shall be stainless steel.

Finish

BK-BZ-WH-GR-GY-NA thermoset polyester powder coat which is electrostatically applied and bonded by heat fusion thermosetting. CC available upon request.

PROJECT
FIXTURE TYPE
CATALOG#



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

BL-125/126/127

Product Order Guide

Series	Max Watts	Lamp Type	Voltage ¹	Finish ¹	Options
BL-125/126	26 CFT	CFT ²	120	BK Black	P ³ Specify Pendant Length
	32 CFT	CFT ²	208	BZ Bronze	SPT Nema 1 (E17 & T6)
	42 CFT	CFT ²	240	WH White	FLD Nema 3 (E17 & T6)
	39 MH	T6	277	GR Green	RB Remote Ballast
	70 MH	T6		NA Natural Aluminum	SPT Spot T6/E17
	70 MH	PAR38		GY Gray	FLD Flood T6/E17
	50 MH	E17		CC Custom Color	MFLD Medium Flood T6/E17
	70 MH	E17			
	50 HPS	E17			
	70 HPS	E17			
BL-127	26 CFT	CFT ²			D Downlight
	32 CFT	CFT ²			UD Up/Downlight
	42CFT	CFT ²			U Uplight
	70 MH	PAR38			SPT Nema 1 (E17 & T6)
	50 MH	E17			FLD Nema 3 (E17 & T6)
	70 MH	E17			RB Remote Ballast
	39 MH	T6			SPT Spot T6/E17
	70 MH	T6			FLD Flood T6/E17
	50 HPS	E17			MFLD Medium Flood T6/E17
	70 HPS	E17			
	Titan25WW	CUS3 ⁴	120-277	Beam 25° Warm White (3050K)	
	Titan25CW	CUS3 ⁴	120-277	Beam 25° Cool (Daylight) White (4700K)	

1 Consult factory for other colors and voltages

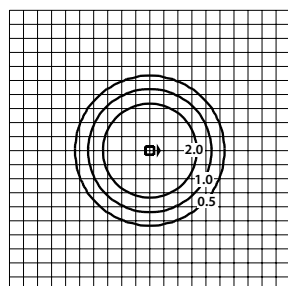
3 BL-125 only

2 CFT = triple biax

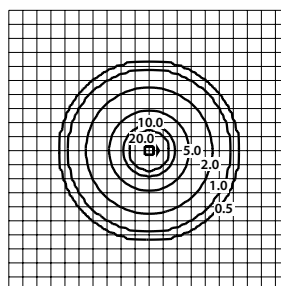
4 The CUS3 is a 25W Titan LED from Lamina and work in BL-125,BL-126 and BL-127

Example: BL-125-13CF-120-BK-P30"

Photometric Data



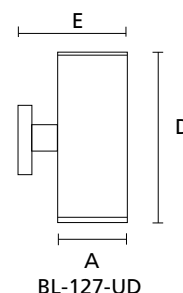
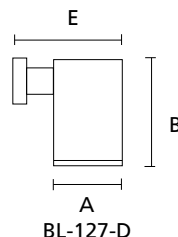
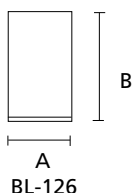
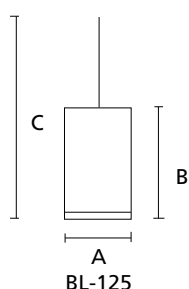
BL-125-26CFT-FLD
1610 Lumens
8.0 ft Mounting Height
value in initial footcandles



BL-126-70MH-E17-FLD
6200 Lumens
8.0 ft Mounting Height
value in initial footcandles

Luminaire Dimensions

Luminaire	A		B		C		D		E		Weight	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
BL-125	8.00	203	12.40	315	71.01	1805					6.2	2.8
BL-126	8.00	203	12.40	315							10.6	4.8
BL-127-D	8.00	203	12.01	305					11.42	290	11.5	5.2
BL-127-UD	8.00	203					20.50	508	11.50	292	20.0	9.0



Building Entrances

Doorways

Pedestrian Areas

Walkways

Building Accent

Surface Wash



BL-226



BL-225



BL-227-UD Up/Downlight

Specifications



Certifications

The fixture shall be ETL and CETL listed for wet location and meets IP65 standard, dust-tight and water-jet proof.

Lamp/Ballast Housing

The housing is constructed of roll formed .080" aluminum and heavy wall aluminum castings.

Lens

Standard external lens is 7/16" clear tempered flat borosilicate glass (F), sealed to the housing with high temperature injection molded silicone gasket. Optional linear, radial and surface wash spread lenses are also available.

Lens Frame

Heavy duty die cast aluminum lens frame is supplied as standard. Fastened to housing with eight captive 1/4-20 stainless steel Allen cap screws.

Reflectors

Spun aluminum highly specular Alzak™ finish for either NEMA type 1 or 2 spot (SPT) or NEMA type 5 flood (FLD) distributions. Field adjustable up to 25° tilt and 360° horizontal rotation. A segmented surface wash reflector with refractor is available along with a fluorescent flood reflector for up to 85W lamps.

Lamp Holder

Porcelain 4kv pulse rated medium base for HID and Incandescent lamp sources.

Options

Cast aluminum Convex Guard (CG), and Directional Shield (DS), Internal Hex Cell Louver (HL), Glass Color Filter (GF), Internal glare Shield (IGS).

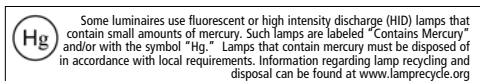
Mounting Detail

The pendant mounted fixture (BL-225) is supported by an aluminum pipe 1" O.D. (specify length) with a hang straight bracket (max. 25° slope) attached with two 3/8" bolts on a 5-3/4" bolt circle and a canopy for mounting over a 4" square junction box.
The surface mounted fixture (BL-226) is attached to the ceiling with two 3/8" bolts at 180° with 8" bolt circle.
The wall mounted fixture (BL-227) is attached to the wall with four 3/8" bolts at 90° on an 8" bolt circle to mount over a 4" square junction box.
Mounting hardware and junction box by others.

Finish

BK-BZ-WH-GR-GY-NA thermoset polyester powder coat which is electrostatically applied and bonded by heat fusion thermosetting. CC available upon request.

PROJECT
FIXTURE TYPE
CATALOG#



BL-225/226/227

Product Order Guide

Series	Max Watts	Lamp Type	Voltage ¹⁴	Optics	Lens	Finish ^{1,8}	Options
BL-225/226/227	26 CFT	CFT ²	120	SPT ⁴ Spot	F ⁴ Clear Flat	BK Black	CG ⁴ Convex Guard ^{10,11}
	32 CFT	CFT ²	208	FLD ⁴ Flood	LS Linear Spread	BZ Bronze	DS ⁴ Directional Shield ^{10,11}
	42 CFT	CFT ²	240	FL ⁴ Fluorescent	RS ⁴ Radial Spread	WH White	PH Porthole ¹¹
			277	SW ⁴ Surface Wash ⁵		GR Green	IGS ⁴ Glare Shield ¹²
	60 PLH ⁴	PLH		PHSPT Porthole Spot ⁶		NA Natl Alum ⁷	HL Hex Cell Louver
	85 PLH ⁴	PLH		PHFLD Porthole Flood		GY Gray	GF Glass Color Filter
				PHFL Porthole Fluorescent		CC Custom Color	P ⁹ Specify Pendant Length
	70 HPS	E17 ³					D ¹³ Downlight
	100 HPS	E17 ³					U ¹³ Uplight
	150 HPS	E17 ³					UD ¹³ Up/Downlight
	100 MH	E17 ³					
	150 MH	E17 ³					
	70 MH	Par30 ¹²					
	100 MH	Par38 ¹²					
	70 MH	T6					
	150 MH	T6					
	250 INC	Par38 ¹²					

1 Consult factory for other colors.

2 CFT = triple biax, PLH=high

3 E17 Lamps 150 W and below are medium base.

4 These selections are not available with the PH Porthole option.

5 The Surface Wash optical package comes with a dedicated surface wash lens.

6 The Porthole Spot parabolic reflector is optimized for 100MH E17 lamp.

7 Natural Aluminum.

8 Thermoset polyester powder coat standard. Custom color on request.

9 BL-225 only. Specify pendant length in inches.

10 These options are supplied in heavy wall cast aluminum with baked enamel painted finish.

11 Consult factory for cast bronze options.

12 Does not require internal optics.

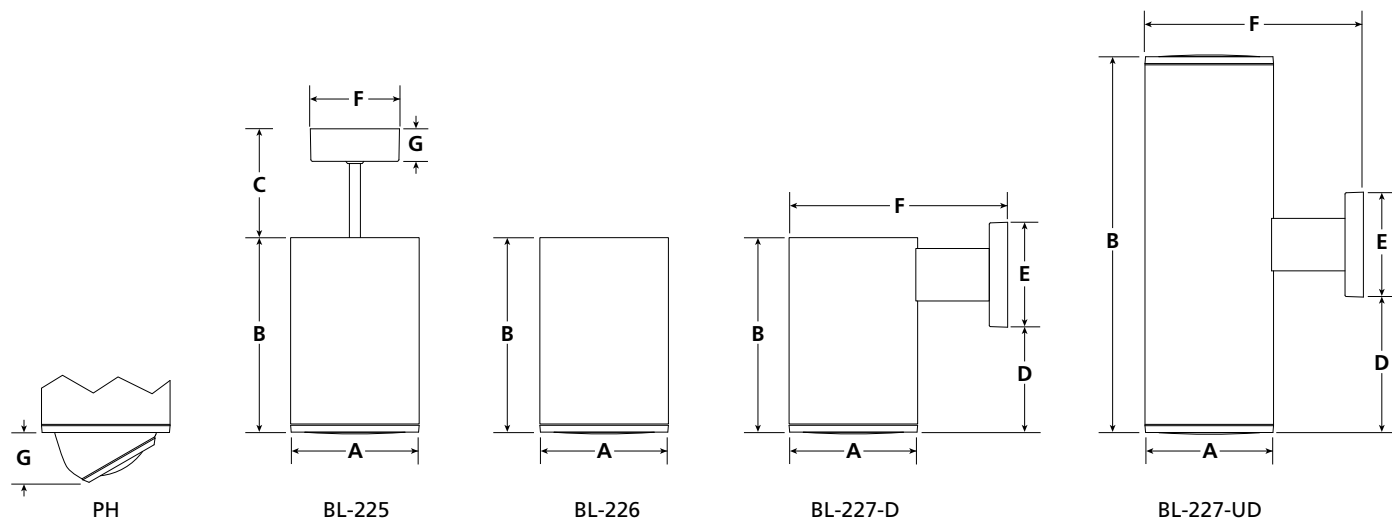
13 BL-227 only. Specify U-optics and D-optics.

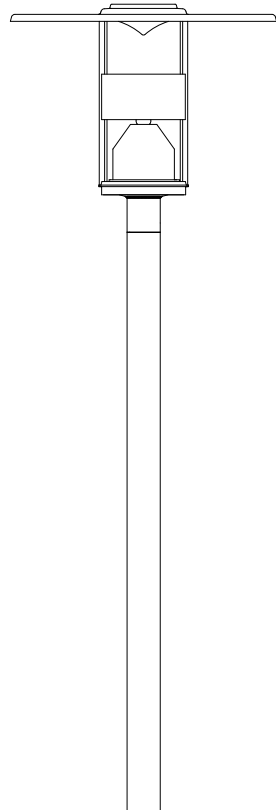
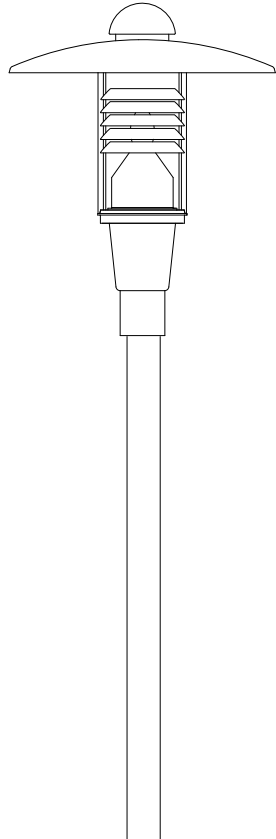
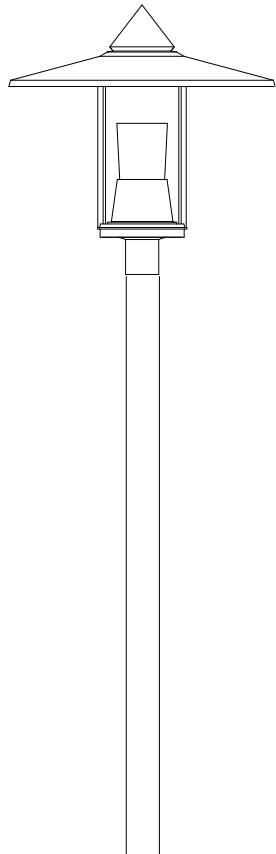
14 Consult factory for other voltages.

Example: BL-227-U-150MH-E17-277-SPT-F-DS-D-42-CFT-227-LS-BK

Luminaire Dimensions

Luminaire	A		B		C		D		E		F		G		Weight	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
PH	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4.75	121	1	0.5
BL-225	12.25	311	18.55	471	XX.XX	XX	n/a	n/a	n/a	n/a	8.50	216	3.10	79	31	14.1
BL-226	12.25	311	18.55	471	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	27	12.3
BL-227-D	12.25	311	18.55	471	n/a	n/a	10.05	255	10.00	254	20.80	528	n/a	n/a	34	15.5
BL-227-UD	12.25	311	35.80	909	n/a	n/a	12.90	328	10.00	254	20.80	528	n/a	n/a	45	20.5





ARCHITECTURAL AREA

Parking Areas
Roadway
Pedestrian Walkways
Tennis Courts
Large Areas



Specifications



Certifications The fixture shall be ETL and CETL listed for wet location.

Light Distribution The AL-01 shall meet the specified light distribution and footcandle levels with an internal optical system and horizontal lamping.

Assembly The fixture shall be factory pre-wired, completely assembled and tested prior to shipment. Each AL-01 shall be provided with an aluminum arm 9" long for 1, 2 at 180° and CWB mounting configurations and 9" long for 2 at 90°, 3 at 90°, 3 at 120°, and 4 at 90° mounting configurations.

Housing The fixture housing shall be constructed from heavy gauge aluminum sheet, internally welded and silicone sealed.


Door Frame Assembly Extruded clear anodized aluminum door frame shall be furnished with fully tempered clear glass lens, thermal and shock resistant. White dacron open cell gasket prevents entry of moisture, dust and insects. All external hardware to be stainless steel.

Ballast Ballast shall be readily accessible, removable and insulated. The fixture is to be factory pre-wired and electronically tested before shipment. Quick disconnects are standard.

Optical Assembly The optical assembly shall be of all non-ferrous components with a multi faceted highly reflective specular finished reflector providing full cutoff, rotatable 90°.

Finish BK-BZ-WH-GY-GR-NA are thermoset polyester powder coat. VR finish is hand-rubbed over a black thermoset polyester powder coat. Custom color available upon request.

Mounting Details AL-01-SH4 Bracket externally slip-fits 2 3/8" O.D. tenons with 4" square fitter. AL-01-RH4 Bracket externally slip-fits 2 3/8" O.D. tenons with 4" round fitter. AL-01-BC denotes aluminum arm finished with hardware for direct mounting to side of pole. Luminaire shall be pre-wired with high temperature wire.

PROJECT
FIXTURE TYPE
CATALOG#
 Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

Product Order Guide

Series	Mounting Type	Max Watts	Lamp Type	Voltage ¹	Reflector Type	Finish ¹	Options
AL-01-20	BC9	100 MHP	E17 ²	120	I	BZ Bronze	F Fusing
	CWB	150 MHP	E17 ²	208	II	BK Black	FF Double Fusing
	RH4	100 HPS	E17 ²	240	III	WH White	PCR Photo Control Receptacle only for Twist-Lock Eye
	SH4	150 HPS	E17 ²	277	V	GR Green	PL Polycarbonate Lens Shield
		210 CMH	T12	347	F	VR Verde	HSS House Side Shield (Internal)
AL-01-24		240 MHP	ED28	480		GY Gray	QS Quartz Standby
		320 MHP	ED37			NA Natural Alum	FF480 Double Fusing 480V
		250 HPS	E18			CC Custom Color	PSV Pole Side Visor (External)
		400 HPS	E18				CWB Cast Wall Bracket
							SH4 4" Square Hub for 2 3/8" O.D. Tenon
							RH4 4" Dia. Round Hub for 2 3/8" O.D. Tenon

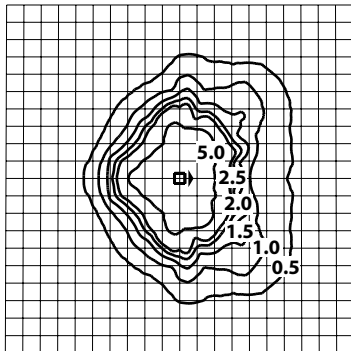
¹ Consult factory for other colors and voltages.

² Lamps 150 W and below are medium base.

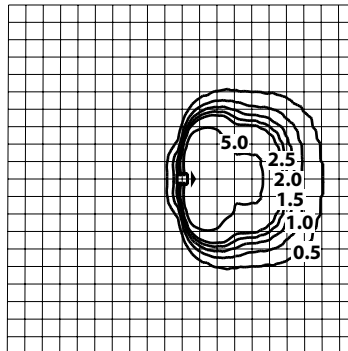
Example: AL-01-RH4/3T-400HPS-ED-18-120-III-BK-PCC

Photometric Data

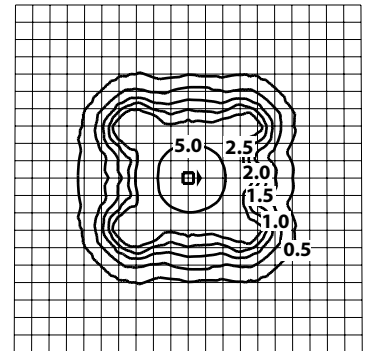
AL-01-400HPS-type III
50000 Initial Lumens
24.0 ft. Mounting Height
10.0 ft. grid, Value in footcandles



AL-01-400HPS-type F
50000 Initial Lumens
24.0 ft. Mounting Height
10.0 ft. grid, Value in footcandles

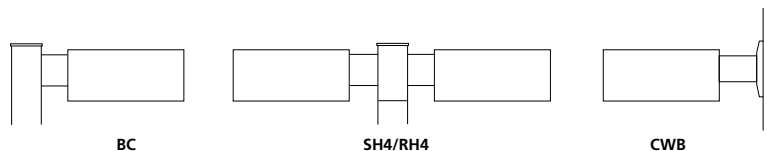


AL-01-400HPS-type V
50000 Initial Lumens
24.0 ft. Mounting Height
10.0 ft. grid, Value in footcandles



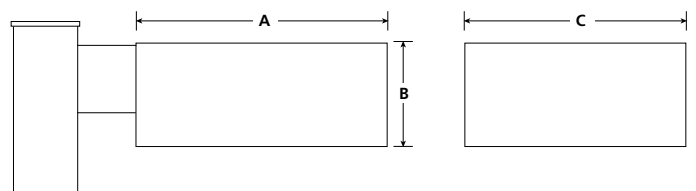
Mounting Type

BC9 Concealed Hardware Mounting Arm 9" long
CWB Cast Wall Bracket
SH4 4" Square Hub Mounting for 2-3/8" Tenon
RH4 4" Dia. Round Hub Mounting for 2-3/8" Tenon

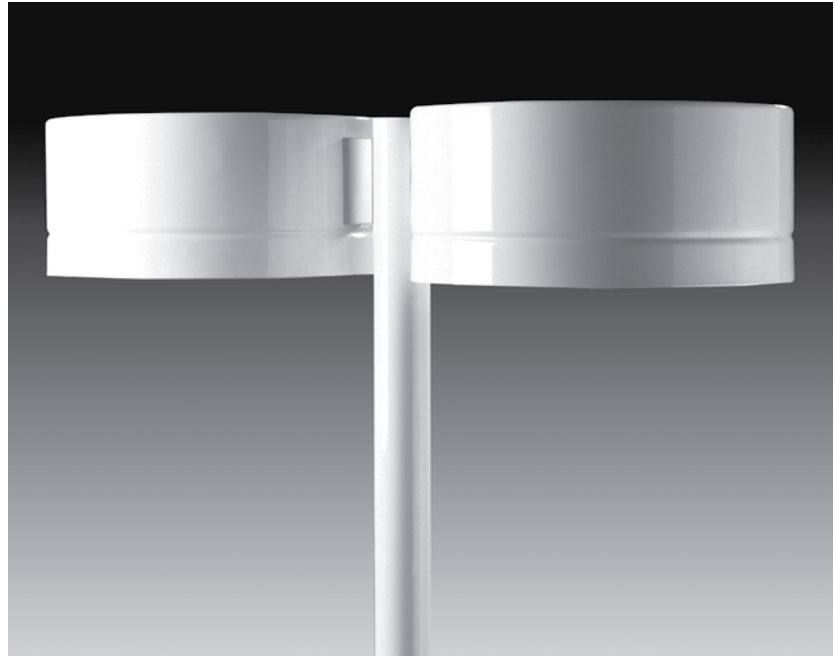


Luminaire Dimension

Luminaire	A		B		C		Weight		EPA
	inch	mm	inch	mm	inch	mm	lbs.	kg	
AL-01-150W	20.0	508	6.5	165	15.0	381	26	11.7	1.26
AL-01-400W	24.0	610	8.0	203	19.0	483	48	21.7	1.82



Parking Areas
Roadway
Pedestrian Walkways
Large Areas



Specifications



Certifications The fixture shall be ETL and CETL listed for wet location.

Light Distribution The AL-18 luminaire shall meet the specified light distribution and footcandle levels with an internal optical system and horizontal lamping.

Assembly The fixture shall be factory pre-wired, completely assembled and tested prior to shipment. Each AL-18 shall be provided with an aluminum 9" long arm for all mounting configurations.

Housing Luminaire body shall be one piece, heavy gauge, anodizing quality spun aluminum.

Door Frame Assembly Cast aluminum door frame shall be furnished with fully tempered clear glass lens, thermal and shock resistant and shall be hinged to the housing with twin stainless steel piano hinges. White dacron open cell gasket prevents entry of moisture, dust and insects. All external hardware to be stainless steel.


Ballast Ballast shall be readily accessible, removable and insulated. The fixture is to be factory pre-wired and electronically tested before shipment. Quick disconnects are standard.

Optical Assembly The optical assembly shall be of all non-ferrous components with a multi faceted highly reflective specular finished reflector providing full cutoff. The AL-18 reflector is rotatable to any angle.

Finish BK-BZ-WH-GY-GR-NA are thermoset polyester powdercoat. VR finish is hand-rubbed over a black thermoset polyester powdercoat. Custom color available upon request.

Mounting Details AL-18-SH4 Bracket externally slip-fits 2 3/8" O.D. tenons with 4" square fitter. AL-18-RH4 Bracket externally slip-fits 2 3/8" O.D. tenons with 4" round fitter. AL-18-BC denotes aluminum arm finished with hardware for direct mounting to side of pole. Luminaire shall be pre-wired with high temperature wire.

PROJECT
FIXTURE TYPE
CATALOG#



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

Product Order Guide

Series	Mounting Type	Max Watts	Lamp Type	Voltage ¹	Reflector Type	Finish ¹	Options
AL-18-20	BC9	100 MHP	E17 ²	120	I	BZ Bronze	F Fusing
	CWB	150 MHP	E17 ²	208	II	BK Black	FF Double Fusing
	SH4	100 HPS	E17 ²	240	III	WH White	PCR Photo Control Receptacle only for Twist-Lock Eye
	RH4	150 HPS	E17 ²	277	V	GR Green	PSV Pole Side Visor (External)
				347	F	VR Verde	QS Quartz Standby
AL-18-25		250 MHP	E28	480		GY Gray	FF480 Double Fusing 480V
		320 MHP	ED37			NA Natural Alum	HSS House Side Shield (internal)
		250 HPS	ED18			CC Custom Color	CWB Cast Wall Bracket
		400 HPS	ED18				SH4 4" Square Hub for 2 3/8" O.D. Tenon
							RH4 4" Dia. Round Hub for 2 3/8" O.D. Tenon

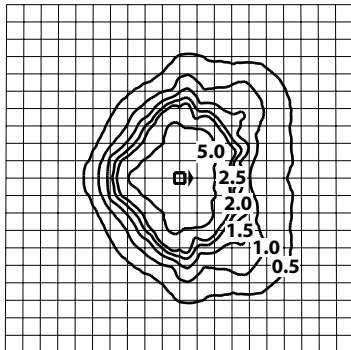
¹ Consult factory for other colors and voltages.

² Lamps 150 W and below are medium base.

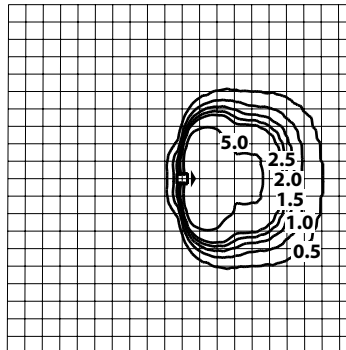
Example: AL-18-25-BC-400HPS-ED18-120-III-BK

Photometric Data

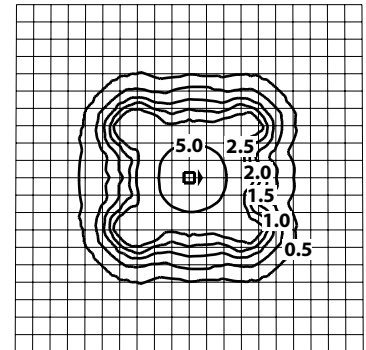
AL-18-400HPS-type III
50000 Initial Lumens
24.0 ft. Mounting Height
10.0 ft. grid, Value in footcandles



AL-18-400HPS-type F
50000 Initial Lumens
24.0 ft. Mounting Height
10.0 ft. grid, Value in footcandles

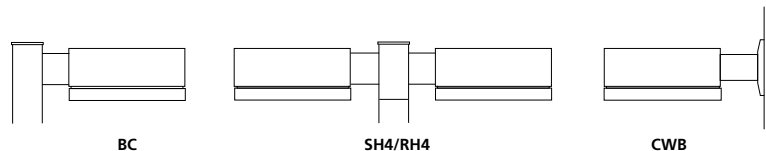


AL-18-400HPS-type V
50000 Initial Lumens
24.0 ft. Mounting Height
10.0 ft. grid, Value in footcandles



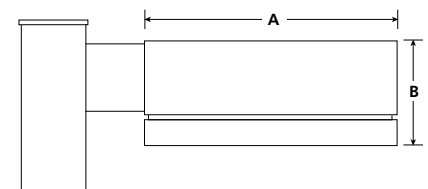
Mounting Type

BC9 Concealed Hardware Mounting Arm 9" long
CWB Cast Wall Bracket
SH4 4" Square Hub Mounting for 2-3/8" Tenon
RH4 4" Dia. Round Hub Mounting for 2-3/8" Tenon



Luminaire Dimensions

Luminaire	A		B		Weight		EPA
	inch	mm	inch	mm	lbs.	kg	
AL-18-20	20.0	508	10.5	266	36	16.3	1.40
AL-18-25	25.0	635	11.0	279	59	26.7	2.00



Pedestrian Areas
Walkways
Building Entrances
Parking Lots
Shopping Malls
Landscape Areas



AA-30/AA-31



AA-130/AA-131

Specifications



Certifications ETL and CETL listed for wet location. Meets IP65 standard.

Housing The housing shall be constructed of heavy duty cast aluminum with a minimum 3/16" wall thickness.

Shade The shade shall be constructed of heavy duty cast aluminum with a minimum 3/16" wall thickness.

Mounting Detail The fixture arm shall internally slip fit a 3" or 4" O.D. pole. Consult Factory for other pole sizes.

The Arm Mount (AM) brackets shall externally slip fit a 3" or 4" O.D. pole. Consult Factory for other pole sizes.

The pendant mounted option (P) is supported by an aluminum pipe 1" O.D. (specify length) with a hang straight bracket (max. 25° slope) attached with two 3/8" bolts on a 5-3/4" bolt circle and a canopy for mounting over a recessed 4" square junction box.

Ballast The ballast shall be readily accessible, removable and insulated. The fixture is to be pre-wired and electronically tested before shipment.


Lens The lens shall be opal acrylic for wide angle light distribution

Lamp Holder The standard lamp holder shall be 4KV pulse rated medium base, for HID and Incandescent lamp sources.

Hardware All exposed hardware shall be stainless steel.

Finish BK-BZ-WH-GR-GY-NA are thermoset polyester powder coat. Custom color available upon request.

PROJECT
FIXTURE TYPE
CATALOG#



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

AA-130/AA-131

AA-30/AA-31

Product Order Guide

Series	Max Watts	Lamp Type	Voltage ¹	Finish ²	Options
AA-30/AA-130	26 CFT	CFT	120	BK Black	WM Wall Mount
	32 CFT	CFT	208	BZ Bronze	P ³ Specify Pendant Length
	42 CFT	CFT	240	WH White	AM2180 ⁴ Pole adaptor 2 @ 180°
	50 MH	E17	277	GR Green	AM2180 ⁴ Pole adaptor 2 @ 180°
	70 MH	E17		NA Natural Aluminum	AM3120 ⁴ Pole adaptor 3 @ 120°
	100 MH	E17		GY Gray	AM490 ⁴ Pole adaptor 4 @ 90°
	50 HPS	E17		CC Custom Color	S4 4" Internal Slip Fitter
	70 HPS	E17			S3 3" Internal Slip Fitter
AA-31/AA-131	150 HPS	E17			
	150 MH	E17			

¹ Consult factory for other voltages.

² Thermoset polyester powder coat standard. Custom colors available on request.

³ Specify pendant length in inches or mm.

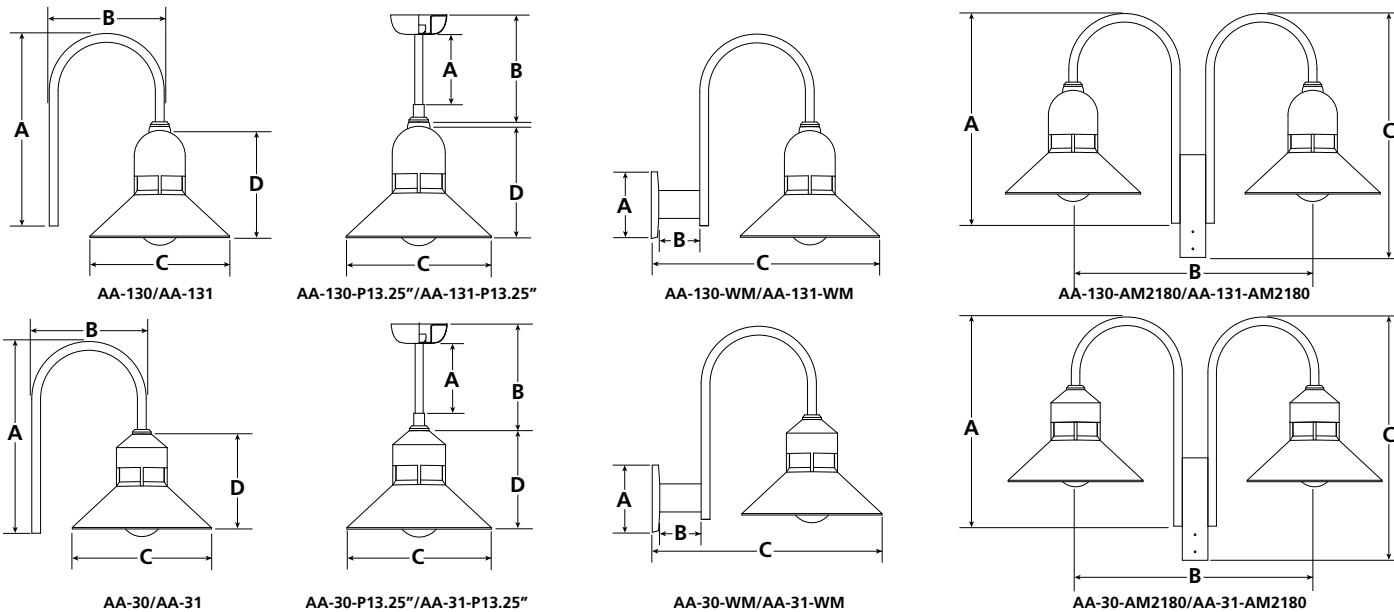
⁴ Specify pole size.

Note: E17 Lamps 150W and below are medium base
CFT=triple bias

Example: AA-30-100MH-E17-277-BK-WM

Luminaire Dimensions

Luminaire	A		B		C		D		EPA	Weight	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm		lbs.	kg
AA-30	35.00	889	17.50	445	21.00	533	13.00	330	0.94	26	11.8
AA-30-WM	11.00	279	7.00	178	35.75	908			1.27	32	14.5
AA-30-P	13.25	337	17.00	432	21.00	533	13.00	330	0.96	29	13.2
AA-30-AM2180	32.67	830	38.00	965	40.25	1022			2.44	60	27.2
AA-31	32.67	830	19.50	495	23.69	602	16.16	410	1.37	42	19.1
AA-31-WM	11.00	279	7.00	178	39.30	998			1.70	48	21.8
AA-31-P	13.25	337	17.00	432	23.69	602	16.16	410	1.52	45	20.4
AA-31-AM2180	35.00	889	42.00	1037	42.75	1086			3.30	94	42.6
AA-130	35.00	889	17.50	445	21.00	533	15.00	381	1.02	30	13.6
AA-130-WM	11.00	279	7.00	178	35.75	908			1.35	36	16.3
AA-130-P	13.25	337	17.00	432	21.00	533	15.00	381	1.17	33	15.0
AA-130-AM2180	32.67	830	38.00	965	40.25	1022			2.60	68	30.8
AA-131	32.67	830	19.50	495	23.69	602	18.19	462	1.46	50	22.7
AA-131-WM	11.00	279	7.00	178	39.30	998			1.79	56	25.4
AA-131-P	13.25	337	17.00	432	23.69	602	18.19	462	1.61	53	24.0
AA-131-AM2180	35.00	889	42.00	1037	42.75	1086			3.48	110	49.9



Pedestrian Areas
Walkways
Building Entrances
Parking Lots
Shopping Malls
Landscape Areas



AA-35/AA-36



AA-135/AA-136

Specifications



Certifications ETL and CETL listed for wet location. Meets IP65 standard.

Housing The housing shall be constructed of heavy duty cast aluminum with a minimum 3/16" wall thickness.

Shade The shade shall be constructed of heavy duty cast aluminum with a minimum 3/16" wall thickness.

Mounting Detail The fixture arm shall internally slip fit a 3" or 4" O.D. pole. Consult Factory for other pole sizes.

The Arm Mount (AM) brackets shall externally slip fit a 3" or 4" O.D. pole. Consult Factory for other pole sizes.

The pendant mounted option (P) is supported by an aluminum pipe 1" O.D. (specify length) with a hang straight bracket (max. 25° slope) attached with two 3/8" bolts on a 5-3/4" bolt circle and a canopy for mounting over a recessed 4" square junction box.

Ballast The ballast shall be readily accessible, removable and insulated. The fixture is to be pre-wired and electronically tested before shipment.


Lens The lens shall be opal acrylic for wide angle light distribution.

Lamp Holder The standard lamp holder shall be 4KV pulse rated medium base, for HID and Incandescent lamp sources.

Hardware All exposed hardware shall be stainless steel.

Finish BK-BZ-WH-GR-GY-NA are thermoset polyester powder coat. Custom color available upon request.

PROJECT
FIXTURE TYPE
CATALOG#



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

AA-135/AA-136

AA-35/AA-36

Product Order Guide

Series	Max Watts	Lamp Type	Voltage ¹	Finish ²	Options
AA-35/AA-135	26 CT	CFT	120	BK Black	WM Wall Mount
	32 CFT	CFT	208	BZ Bronze	P ³ Specify Pendant Length
	42 CFT	CFT	240	WH White	AM2180 ⁴ Pole adaptor 2 @ 180°
	50 MH	E17	277	GR Green	AM3120 ⁴ Pole adaptor 3 @ 120°
	70 MH	E17		NA Natural Aluminum	AM490 ⁴ Pole adaptor 4 @ 90°
	100 MH	E17		GY Gray	S3 3" Internal Slip Fitter
	50 HPS	E17		CC Custom Color	S4 4" Internal Slip Fitter
	70 HPS	E17			
AA-36/AA-136	150 HPS	E17			
	150 MH	E17			

¹ Consult factory for other voltages.

² Thermoset polyester powder coat standard. Custom colors available on request.

³ Specify pendant length in inches or mm.

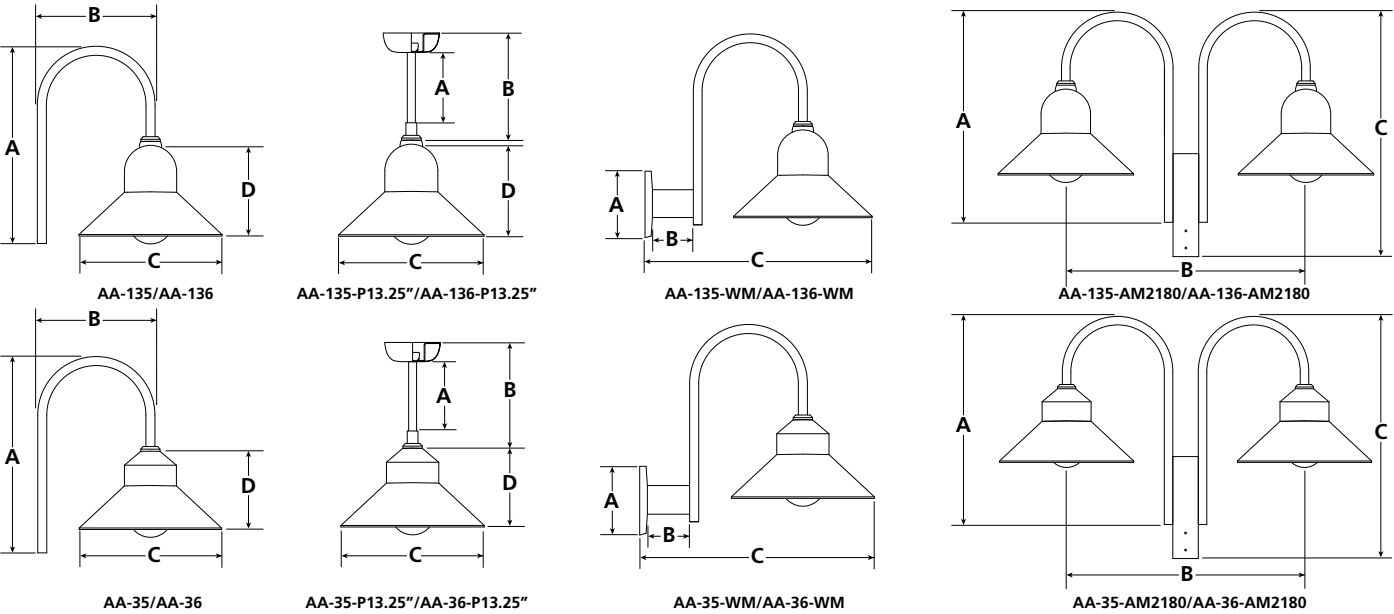
⁴ Specify pole size.

Note: E17 Lamps 150W and below are medium base
CFT=triple biax

Example: AA-35-100MH-E17-277-BK-WM

Luminaire Dimensions

Luminaire	A		B		C		D		EPA	Weight	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm		lbs.	kg
AA-35	35.00	889	17.50	445	21.00	533	10.00	254	0.81	22	10.0
AA-35-WM	11.00	279	7.00	178	35.75	908			1.14	28	12.7
AA-35-P	13.25	337	17.00	432	23.69	602	10.00	254	0.96	25	11.3
AA-35-AM2180	32.67	830	38.00	965	40.25	1022			2.18	54	24.5
AA-36	32.67	830	19.50	495	23.69	602	13.00	330	1.22	46	20.9
AA-36-WM	11.00	279	7.00	178	39.30	998			1.55	52	23.6
AA-36-P	13.25	337	17.00	432	23.69	602	13.00	330	1.37	49	22.2
AA-36-AM2180	35.00	889	42.00	1067	42.75	1035			3.00	102	46.3
AA-135	35.00	889	17.50	445	21.00	533	12.00	305	0.88	29	13.2
AA-135-WM	11.00	279	7.00	178	35.75	908			1.21	35	15.9
AA-135-P	13.25	337	17.00	432	23.69	602	12.00	305	1.03	32	14.5
AA-135-AM2180	32.67	830	38.00	965	40.25	1022			2.32	68	30.8
AA-136	32.67	830	19.50	495	23.69	602	15.00	381	1.31	53	24.0
AA-136-WM	11.00	279	7.00	178	39.30	998			1.64	59	26.8
AA-136-P	13.25	337	17.00	432	23.69	602	13.00	330	1.46	56	25.4
AA-136-AM2180	35.00	889	42.00	1067	42.75	1035			3.18	116	52.6



Pedestrian Areas
Walkways
Building Entrances
Parking Lots
Shopping Malls
Landscape Areas



AA-40/AA-41



AA-140/AA-141



AA-40-CL/AA-41-CLL



AA-140-CL/AA-141-CLL

Specifications



Certifications ETL and CETL listed for wet location. Meets IP65 standard.

Housing The housing shall be constructed of heavy duty cast aluminum with a minimum 3/16" wall thickness.

Shade The shade shall be constructed of heavy duty cast aluminum with a minimum 3/16" wall thickness.

Mounting Detail The AA-40/140 fixtures shall externally slip fit a 2-3/8" O.D. tenon (min 2-3/8" tall). The AA-41/141 fixtures shall externally slip fit a 3" O.D. tenon (min 3" tall).

The Bracket Mount (BM) shall externally slip fit a specified tenon.


Ballast The ballast shall be readily accessible, removable and insulated. The fixture is to be pre-wired and electronically tested before shipment.

Lens The lens shall be opal acrylic for wide angle light distribution or clear acrylic with louver system. (CLL option)

Lamp Holder The standard lamp holder shall be 4KV pulse rated medium base, for HID and Incandescent lamp sources.

Hardware All exposed hardware shall be stainless steel.

Finish BK-BZ-WH-GR-GY-NA are thermoset polyester powder coat. Custom color available upon request.

PROJECT
FIXTURE TYPE
CATALOG#
 Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

AA-40/AA-140

AA-41/AA-141

Product Order Guide

Series	Max Watts	Lamp Type	Voltage ¹	Finish ²	Options
AA-40/AA-140	26 CFT	CFT	120	BK Black	WM Wall Mount
	32 CFT	CFT	208	BZ Bronze	CLL Clear Lens with louvers
	42 CFT	CFT	240	WH White	BM2180 ³ Pole adaptor 2 @ 180°
	50 MH	E17	277	GR Green	BM3120 ³ Pole adaptor 3 @ 120°
	70 MH	E17		NA Natural Aluminum	BM490 ³ Pole adaptor 4 @ 90°
	100 MH	E17		GY Gray	
	35 HPS	E17		CC Custom Color	
	50 HPS	E17			
	70 HPS	E17			
AA-41/AA-141	150 HPS	E17			
	150 MH	E17			

¹ Consult factory for other voltages.

² Thermoset polyester powder coat standard. Custom colors available on request.

³ Specify tenon size.

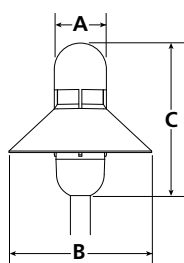
Note: E17 Lamps 150W and below are medium base.

CFT=triple biax

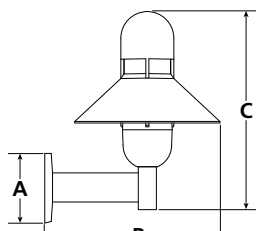
Example: AA-40-100MH-E17-277-BK-WM

Luminaire Dimensions

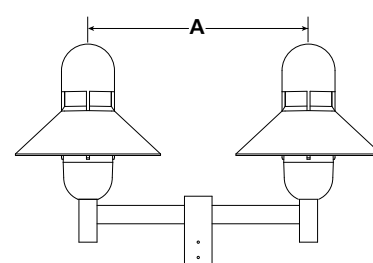
Luminaire	A		B		C		EPA	Weight	
	Inch	mm	Inch	mm	Inch	mm		lbs.	kg
AA-40	7.50	190	21.00	533	20.00	508	1.26	30	13.6
AA-40-WM	11.00	279	27.25	692	27.00	686	2.16	36	16.3
AA-40-BM2180	36.00	914					3.71	70	31.8
AA-41	8.65	220	23.69	602	23.38	594	1.77	52	23.6
AA-41-WM	11.00	279	28.63	727	30.38	772	2.67	58	26.3
AA-41-BM2180	36.00	914					4.73	114	51.7
AA-140	7.50	190	21.00	533	23.00	584	1.31	36	16.3
AA-140-WM	11.00	279	27.25	692	30.00	762	2.21	42	19.1
AA-140-BM2180	36.00	914					3.81	82	37.2
AA-141	8.65	220	23.69	602	25.38	645	1.87	60	27.2
AA-141-WM	11.00	279	28.63	727	32.38	822	2.77	66	29.9
AA-141-BM2180	36.00	914					4.93	130	59.0



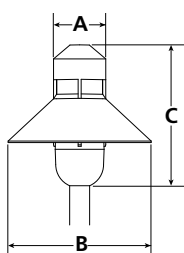
AA-140/AA-141



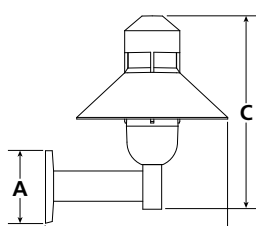
AA-140-WM/AA-141-WM



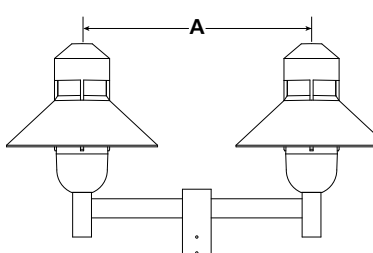
AA-140-BM2180/AA-141-BM2180



AA-40/AA-41



AA-40-WM/AA-41-WM



AA-40-BM2180/AA-41-BM2180

Pedestrian Areas
Walkways
Building Entrances
Parking Lots
Shopping Malls



RD - round shade and cap



GPT - glow top pointed shade and cap



PT - pointed shade and cap



FL - flat shade and cap

Specifications



Certifications The fixture shall be ETL and CETL listed for wet location. Meets IP65 standard.

Housing The housing shall be constructed of spun and cast aluminum.

Ballast The ballast shall be readily accessible, removable and insulated.
The fixture is to be pre-wired and electronically tested before shipment.

Lens The lens shall be clear polycarbonate (CLL, CLR, CLB & IND versions) or opal polycarbonate for wide angle light distribution (O version) or clear, partially frosted polycarbonate. (ECLR version)

Glow Top The glow tops shall be constructed of uv resistant opal or clear polycarbonate standard or colored polycarbonate optional.


Reflectors The reflectors shall be aluminum and silver anodized.

Hardware All exposed hardware shall be stainless steel.

Mounting Details The fixture shall either externally slipfit a 2-3/8" tenon (PM3) or internally slipfit a 4" pole. (PM4)

Finish BK-BZ-WH-GY-GR-NA are thermoset polyester powder coat. Custom color available upon request.

PROJECT
FIXTURE TYPE
CATALOG#



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

AA-105

AA-205

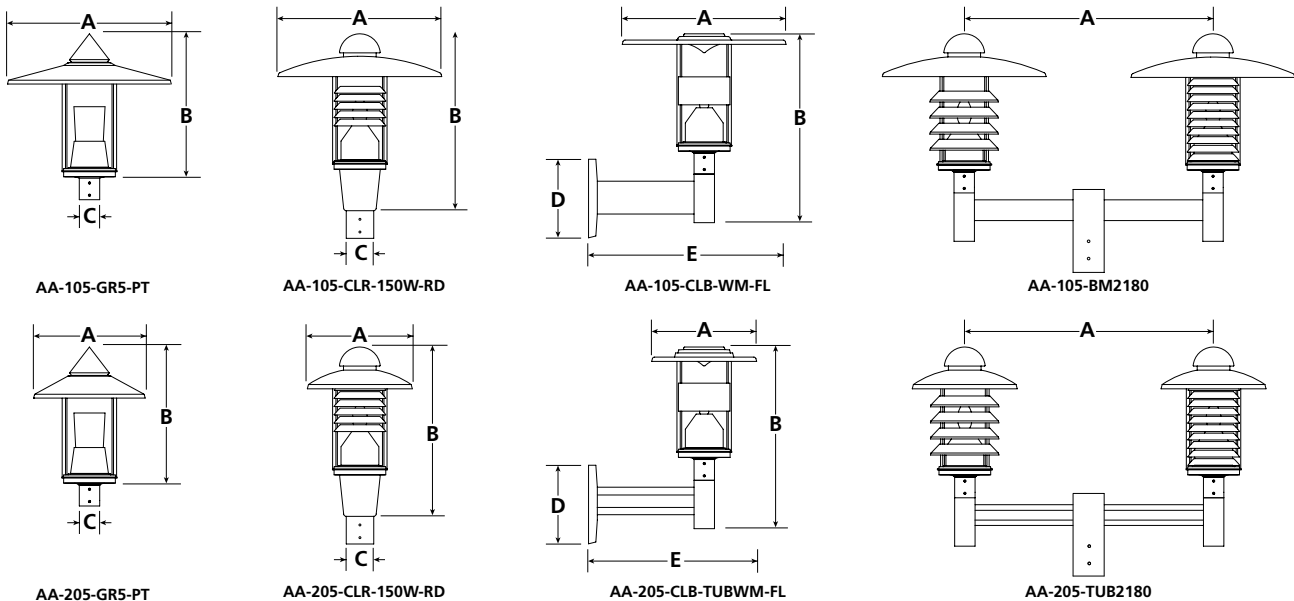
Product Order Guide

Series	Max Watts	Lamp Type	Voltage ¹	Optics	Finish ¹	Shade	Options
AA-105/	26 CFT	CFT ³	120	O	Opal Polycarbonate Lens	BK Black	FL Flat PM3 ⁴ 3" Pole adaptor
AA-205	32 CFT	CFT ³	208	CLR	Clear Polycarbonate Lens	BZ Bronze	PT Pointed PM4 ⁵ 4" Pole adaptor
	42 CFT	CFT ³	240		with Variform Reflector	WH White	RD Round
	70 MH	T6	277	CLB	Clear Polycarbonate Lens	GR Green	GFL Glow Flat Opal
	150 MH ⁹	T6			with Baffle and Variform Reflector	NA Natl Alum ⁸	GPT Glow Pointed Opal
	70 MH ⁹	E17 ²				GY Gray	GRD Glow Round Opal
	100 MH ⁹	E17 ²		CLL	Clear Polycarbonate Lens	CC Custom Color	CFLC Glow Flat Clear
	150 MH ⁹	E17 ²			with Controform Reflector		GPTC Glow Pointed Clear
	50 HPS	E17 ²		ECLR ¹⁰	Partially Frosted Lens with Exterior Controform Reflector		GRDC Glow Round Clear
	70 HPS	E17 ²					
	100 HPS	E17 ²		GR3	Glass Refractor Type 3		HSS House Side Shield
	150 HPS	E17 ²		GR5	Glass Refractor Type 5		BM2180 ⁶ Pole adaptor
				IND ^{9,7}	Clear Polycarbonate Lens with Indirect optics		TUB2180 ⁶ 2 @180°
							BM3120 ⁶ Pole adaptor
							TUB3120 ⁶ 3 @120°
							BM490 ⁶ Pole adaptor
							TUB490 ⁶ 4 @90°
							WM Wall Mount
							TUBWM Tubular Wall Mount
							EM ¹¹ Emergency Battery Backup

1. Consult factory for other colors and voltages
2. Lamps 150 W and below are medium base.
3. CFT = triple biax
4. PM3 - externally slip fits 2-3/8" tenon
5. PM4 - internally slip fits 4" pole
6. BM/TUB - externally slip fits specified tenon.
7. IND - Indirect lightsource is a spot reflector with 70W E17/T6, 100W E17, or 150W T6 lamp, AA-105 only.
8. NA - Natural Aluminum
9. Requires internal ballast box extension
10. Note ECLR option 70HPS/MH max.
11. EM requires PM3 or PM4 ballast enclosure.

Example: AA-105-100MH-E17-277-CLL-BK-FL-PM3

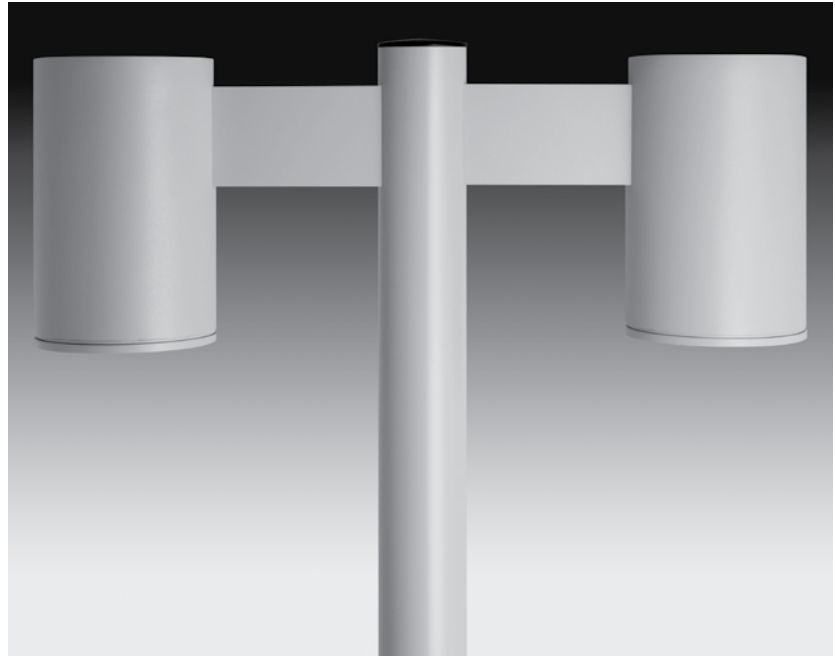
Luminaire	A		B		C		D		E		Weight		EPA
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs.	kg	
AA-105-GR5-PT	23.62	600	20.63	524	3.00	76	n/a	n/a	n/a	n/a	18.5	8.4	1.4
AA-205-GR5-PT	15.00	381	19.00	487	3.00	76	n/a	n/a	n/a	n/a	18.2	8.3	1.3
AA-105-CLR-150W-RD	23.62	600	25.60	650	3.50	89	n/a	n/a	n/a	n/a	20.0	9.1	1.7
AA-205-CLR-150W-RD	15.00	381	24.60	625	3.50	89	n/a	n/a	n/a	n/a	19.7	8.9	1.5
AA-105-CLB-WM-FL	23.62	600	27.68	665	n/a	n/a	11.00	279	25.20	640	23.1	10.5	1.8
AA-205-CLB-WMTUB-FL	15.00	381	26.38	670	n/a	n/a	11.00	279	24.38	619	22.9	10.4	1.7
AA-105-BM2180	36.00	915	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	46.2	21.0	3.7
AA-205-TUB2180	36.00	915	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	45.8	20.8	3.4



Pedestrian Areas

Walkways

Parks



Specifications



Certifications

ETL and CETL listed for wet location and meets IP65 standard, dust-tight and water-jet proof.

Lamp/Ballast Housing

The housing is constructed of extruded aluminum and heavy wall aluminum castings.

Lens

The lens shall be clear tempered safety glass, sealed to the housing with high temperature silicone.

Lens Frame

Heavy duty cast aluminum lens frame is supplied as standard. Fastened to housing with four 1/4-20 stainless steel Allen cap screws.

Reflectors

Spun aluminum highly specular Alzak™ finish for either NEMA type 2 spot (SPT) or NEMA type 3 flood (FLD) distributions. Fluorescent flood reflector for up to 42W CFT lamps.

Lamp Holder

Porcelain 4kv pulse rated medium base for HID and Incandescent lamp sources.

Mounting Details


The mounting arm is attached to the pole with two 3/8" all thread rods and accompanying nuts and washers.

See Installation Sheet For More Details

Finish

BK-BZ-WH-GR-GY-NA are thermoset polyester powder coat. Custom color available upon request.

PROJECT
FIXTURE TYPE
CATALOG#



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

Product Order Guide

Series	Max Watts	Lamp Type	Voltage ¹	Optics	Finish ²	Options
AA-127	Fluorescent					
	26 CFT	CFT	120	SPT ⁵ Spot	BK Black	D ⁴ Downlight
	32 CFT	CFT	208	FLD ⁵ Flood	BZ Bronze	PM2180 Pole Mount 2@180
	42 CFT	CFT	240	FL Fluorescent	WH White	PM290 Pole Mount 2@90
			277		GR Green	PM3120 Pole Mount 3@120
	Metal Halide			NA Natural Aluminum	PM490 Pole Mount 4@90	
	50 MH	E17		GY Gray	R3 3" O.D. Pole Mount	
	70 MH	E17		CC Custom Color	R4 4" O.D. Pole Mount	
	70 MH	Par30 ³			S Square Pole Mount	
	70 MH	Par38 ³				
	39 MH	T6				
	70 MH	T6				
	High Pressure Sodium					
	70 HPS	E17				
	LED					
	Titan25WW	CUS3 ⁶	120-277	Beam 25° Warm White (3050K)		
	Titan25CW	CUS3 ⁶	120-277	Beam 25° Cool (Daylight) White (4700K)		

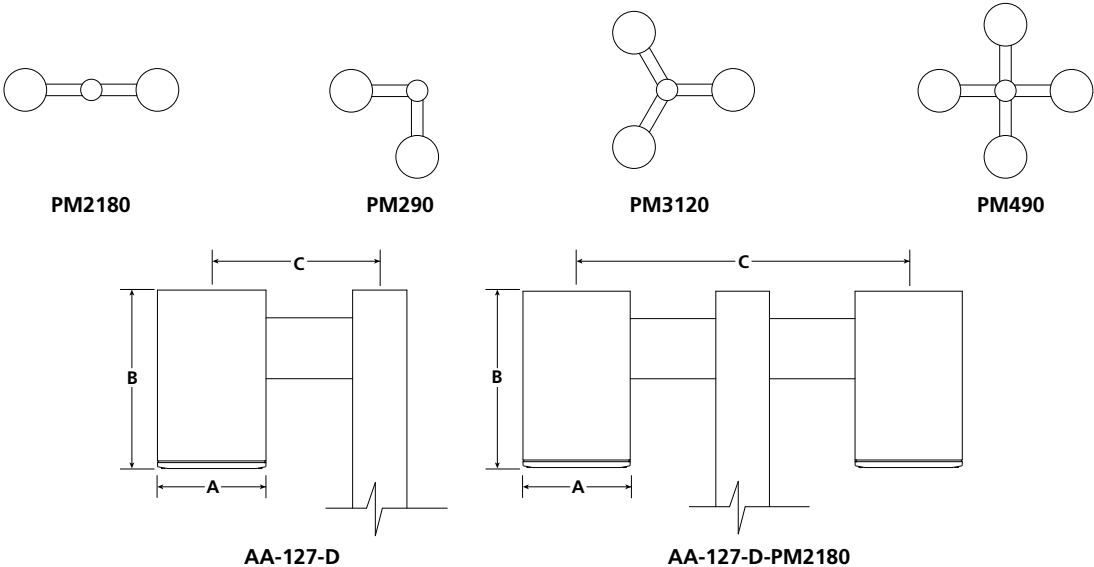
- ¹ Consult factory for other voltages.
- ² Thermoset polyester powder coat standard. Consult factory for other finishes.
- ³ Does not require internal optics.
- ⁴ Specify D-optics and/or U-optics.
- ⁵ Spot Nema 2 (T6 & E17), Flood Nema 3 (T6 & E17)
- ⁶ The CUS3 is a 25W Titan LED from Lamina

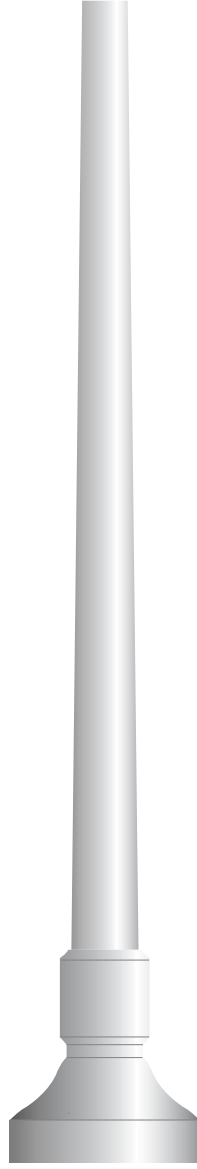
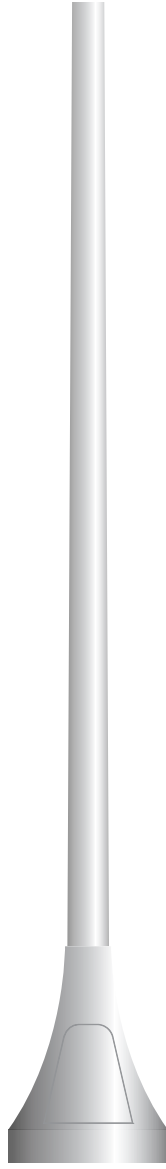
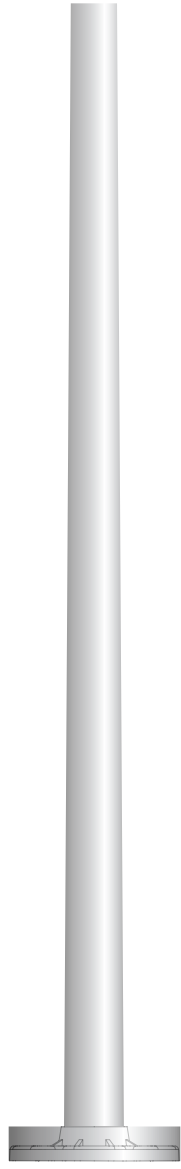
Note: E-17 Lamps 150W and below are medium base
CFT = triple biax

Example: AA-127-42CFT-120-FL-BK-D-PM2180

Luminaire Dimensions

Luminaire	A		B		C		Weight	
	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
AA-127-D	8.00	203	12.75	324	13.50	343	11.50	5.20
AA-127-D-PM2180	8.00	203	12.75	324	27.00	686	23.00	10.40





POLES & BRACKETS

PROJECT
FIXTURE TYPE
CATALOG#

Round Aluminum Tapered Poles

Catalog Number	Pole Dimensions	Bolt Circle	Anchor Bolt Size	Max. EPA ¹
RAT43-8	4" - 3" O.D. x 8'	7 1/2" - 9 1/2"	(4) 3/4" x 19"	9.78 6.10
RAT43-10	4" - 3" O.D. x 10'	7 1/2" - 9 1/2"	(4) 3/4" x 19"	7.85 4.82
RAT43-12	4" - 3" O.D. x 12'	7 1/2" - 9 1/2"	(4) 3/4" x 19"	6.45 3.60
RAT43-14	4" - 3" O.D. x 14'	7 1/2" - 9 1/2"	(4) 3/4" x 19"	4.11 2.01

Tenon Options

T238	2-3/8" O.D.		
DM10	Drill for single	DM390	Drill for triple at 90°
DM2180	Drill for double at 180°	DM490	Drill for quad at 90°
DM290	Drill for double at 90°	GFI	Provision only

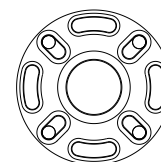
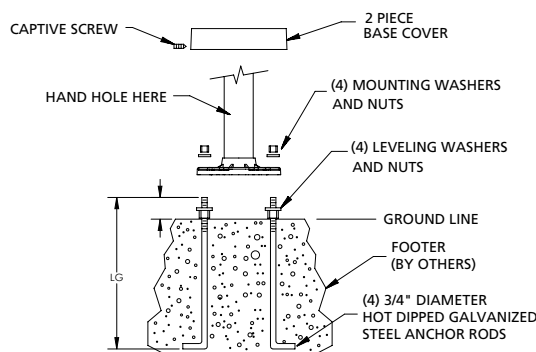
Dimensions

Base	11 1/2" dia. x 2 3/8" H
Base Cover (included)	12 1/8" dia. x 3 1/4" H
Hand-Hole Opening	2" x 4" Overall
Shaft	4" to 3" Tapered
Wall	0.125 Aluminum

Finishes

BK	Black	Polyurethane enamel finish. Assemblies are shot blasted to create a surface profile which allows for the highest level of paint adhesion, creating superior weatherability and fade resistance.
BZ	Bronze	
WH	White	
VR	Verde	
GR	Green	

Example: RAT43-10-WE-BK

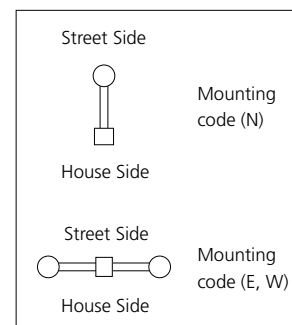
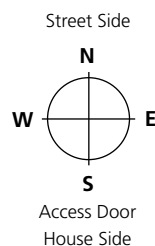


Base Plate

When ordering:

The diagram will help you properly designate the orientation of your fixtures.

The access door side (S) is generally located on the house side positioning of the pole, with street side being the opposite (N). Therefore, if you plan to mount one fixture on the roadway side of a pole, you should use mounting code "N".



¹ EPA values based on destructive break testing. For AASHTO ratings, contact factory.

PROJECT
FIXTURE TYPE
CATALOG#

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Round Aluminum Straight Poles

Catalog Number	Pole Dimensions	Bolt Circle	Anchor Bolt Size	Max. EPA ¹
RAS4-12	4" O.D. x 12'	7 1/2" - 9 1/2"	(4) 3/4" x 19"	6.45 3.88
RAS4-14	4" O.D. x 14'	7 1/2" - 9 1/2"	(4) 3/4" x 19"	4.13 2.31
RAS4-15	4" O.D. x 15'	7 1/2" - 9 1/2"	(4) 3/4" x 19"	3.92 2.01
RAS4-16	4" O.D. x 16'	7 1/2" - 9 1/2"	(4) 3/4" x 19"	3.35 1.80
RAS4-18	4" O.D. x 18'	7 1/2" - 9 1/2"	(4) 3/4" x 19"	2.72 1.34
RAS4-20	4" O.D. x 20'	7 1/2" - 9 1/2"	(4) 3/4" x 19"	2.17 0.93

Tenon Options

T238	2-3/8" O.D.		
T300	3" O.D.		
DM10	Drill for single	DM390	Drill for triple at 90°
DM2180	Drill for double at 180°	DM490	Drill for quad at 90°
DM290	Drill for double at 90°	GFI	Provision only

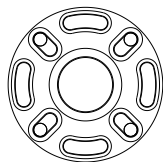
Dimensions

Base	11 1/2" dia. x 2 3/8" H
Base Cover (included)	12 1/8" dia. x 3 1/4" H
Hand-Hole Opening	2" x 4" Overall
Shaft	4" Straight
Wall	0.188 Aluminum

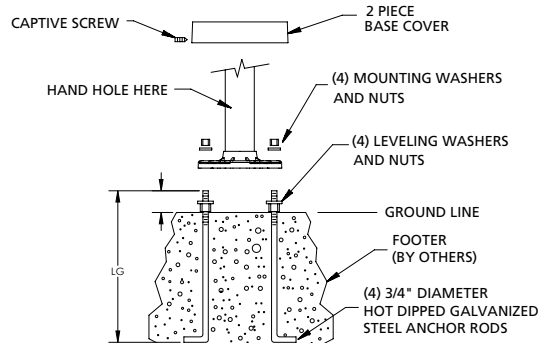
Finishes

BK	Black	Polyurethane enamel finish. Assemblies are shot blasted to create a surface profile which allows for the highest level of paint adhesion, creating superior weatherability and fade resistance.
BZ	Bronze	
WH	White	
VR	Verde	
GR	Green	

Example: RAS4-14-T238-BZ



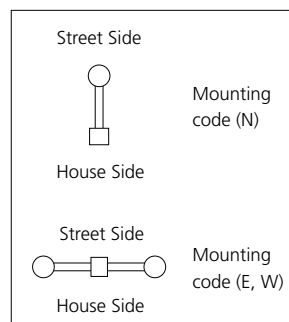
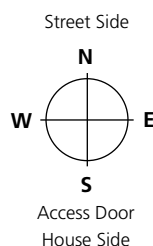
Base Plate



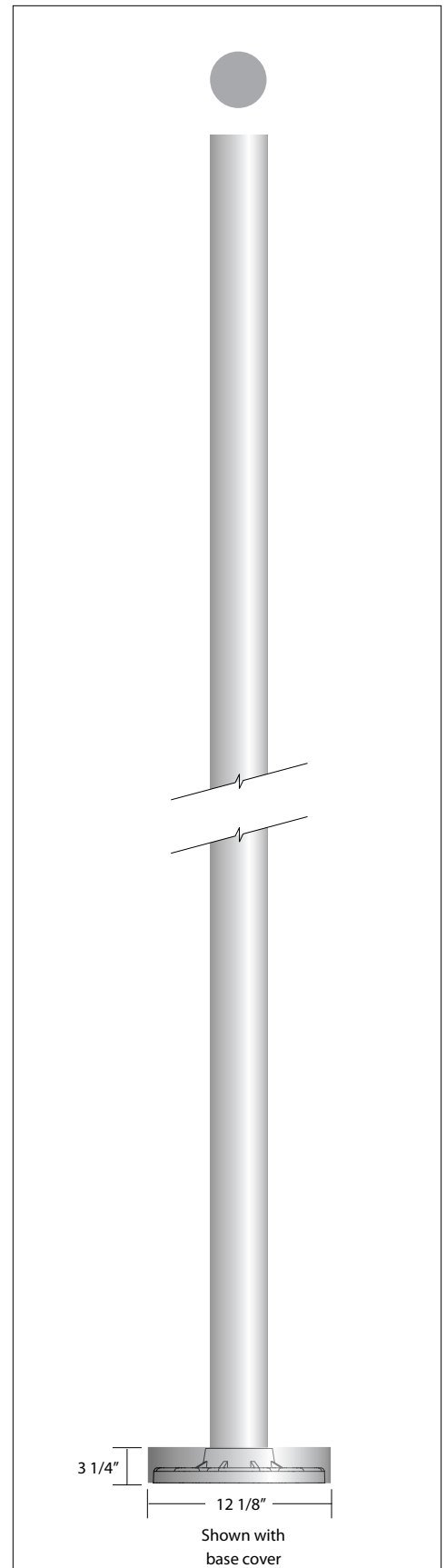
When ordering:

The diagram will help you properly designate the orientation of your fixtures.

The access door side (S) is generally located on the house side positioning of the pole, with street side being the opposite (N). Therefore, if you plan to mount one fixture on the roadway side of a pole, you should use mounting code "N".



¹ EPA values based on destructive break testing. For AASHTO ratings, contact factory.



PROJECT
FIXTURE TYPE
CATALOG#

Square Aluminum Straight Poles

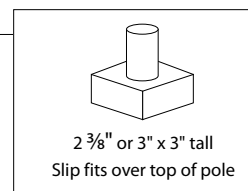
Catalog Number	Pole Dimensions	Bolt Circle	Anchor Bolt Size	Max. EPA ¹ 80	100
SQAS4-12	4" O.D. x 12'	9 1/2"	(4) 3/4" x 19"	17.52	10.29
SQAS4-14	4" O.D. x 14'	9 1/2"	(4) 3/4" x 19"	11.56	6.52
SQAS4-15	4" O.D. x 15'	9 1/2"	(4) 3/4" x 19"	10.21	5.65
SQAS4-16	4" O.D. x 16'	9 1/2"	(4) 3/4" x 19"	9.49	5.02
SQAS4-18	4" O.D. x 18'	9 1/2"	(4) 3/4" x 19"	7.74	3.73
SQAS4-20	4" O.D. x 20'	9 1/2"	(4) 3/4" x 19"	6.23	2.60

Tenon Adapter Options

T238	2-3/8" O.D.	T300	3" O.D.
DM10	Drill for single	DM390	Drill for triple at 90°
DM2180	Drill for double at 180°	DM490	Drill for quad at 90°
DM290	Drill for double at 90°	GFI	Provision only

Dimensions

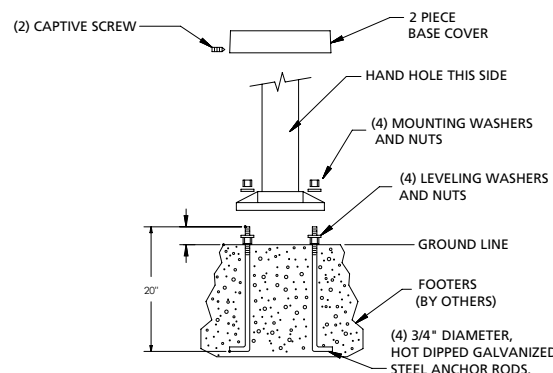
Base	11 1/2" sq. x 2" H
Base Cover (included)	12 1/4" sq. x 3 1/4" H
Hand-Hole Opening	2" x 4" Oval
Shaft	4" Straight
Wall	0.188 Aluminum



Finishes

BK	Black	Polyurethane enamel finish. Assemblies are shot blasted to create a surface profile which allows for the highest level of paint adhesion, creating superior weatherability and fade resistance.
BZ	Bronze	
WH	White	
VR	Verde	
GR	Green	

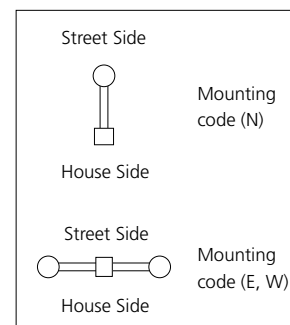
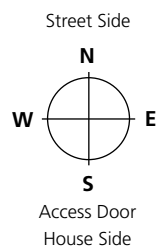
Example: SQAS4-20-N-BZ



When ordering:

The diagram will help you properly designate the orientation of your fixtures.

The access door side (S) is generally located on the house side positioning of the pole, with street side being the opposite (N). Therefore, if you plan to mount one fixture on the roadway side of a pole, you should use mounting code "N".



¹ EPA values based on destructive break testing. For AASHTO ratings, contact factory.

Round Aluminum Tapered Poles

Catalog Number	Pole Dimensions	Bolt Circle	Anchor Bolt Size	Max. EPA ¹ 80	100
RAT43DB1-8	4"-3" O.D. x 8'	6 1/2"	(4) 1/2" x 15"	9.27	5.56
RAT43DB1-10	4"-3" O.D. x 10'	6 1/2"	(4) 1/2" x 15"	7.18	5.11
RAT43DB1-12	4"-3" O.D. x 12'	6 1/2"	(4) 1/2" x 15"	5.61	3.01

Tenon Options

T238	2-3/8" O.D.		
DM10	Drill for single	DM390	Drill for triple at 90°
DM2180	Drill for double at 180°	DM490	Drill for quad at 90°
DM290	Drill for double at 90°	GFI	Provision only

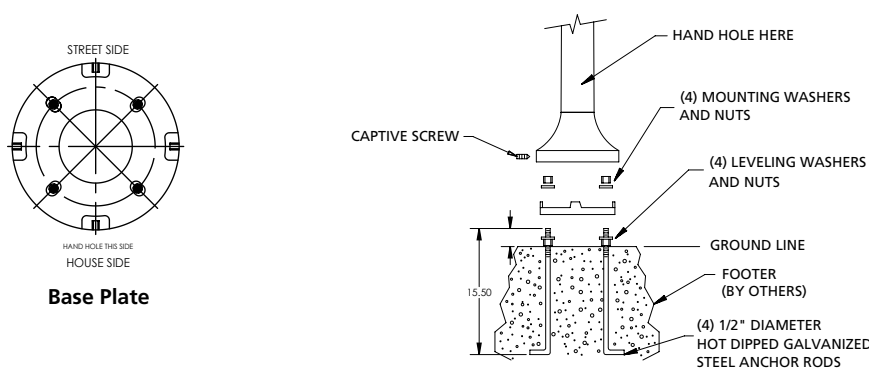
Dimensions

Base	9 1/8" dia. x 1 1/8" H
Base Cover (included)	10" dia. x 6" H
Hand-Hole Opening	2" x 4"
Shaft	4" to 3" Tapered
Wall	0.125 Aluminum

Finishes

BK	Black	Polyurethane enamel finish. Assemblies are shot blasted to create a surface profile which allows for the highest level of paint adhesion, creating superior weatherability and fade resistance.
BZ	Bronze	
WH	White	
VR	Verde	
GR	Green	

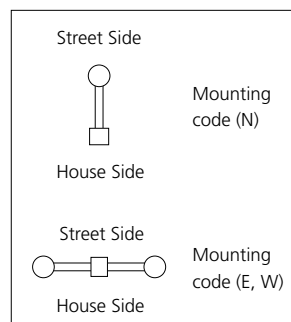
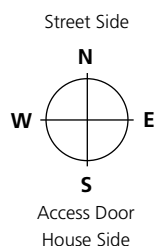
Example: RAT43DB1-10-T238-BK



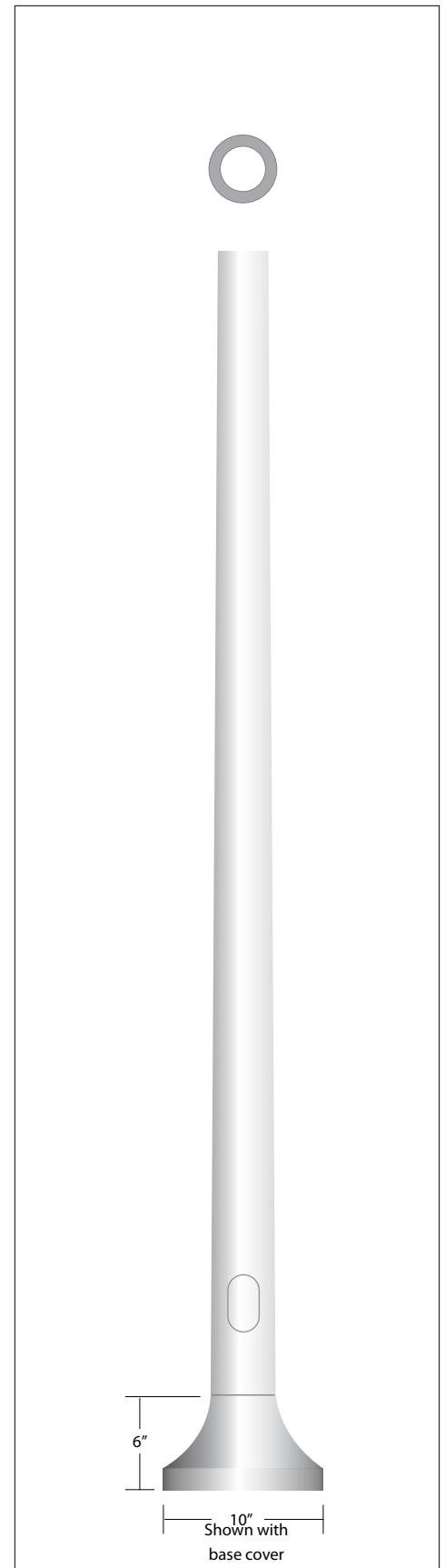
When ordering:

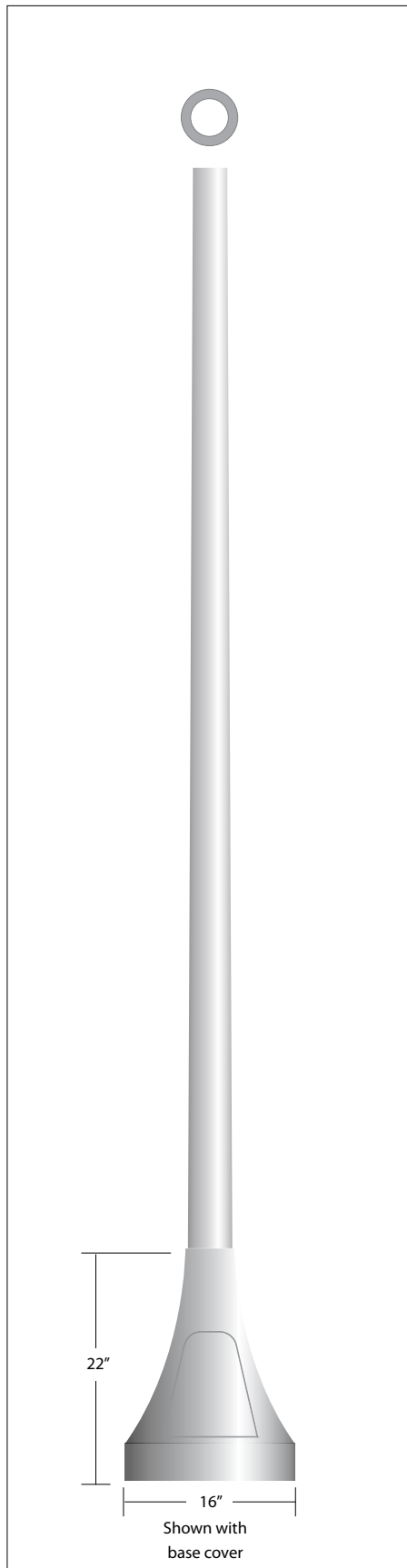
The diagram will help you properly designate the orientation of your fixtures.

The access door side (S) is generally located on the house side positioning of the pole, with street side being the opposite (N). Therefore, if you plan to mount one fixture on the roadway side of a pole, you should use mounting code "N".



¹ EPA values based on destructive break testing. For AASHTO ratings, contact factory.





Catalog Number	Pole	Bolt	Anchor	Max. EPA ¹	
	Dimensions	Circle	Bolt Size	80	100
RAT43DB2-10	4"-3" O.D. x 10'	8"-13" dia.	(4) 3/4" x 19"	12.53	7.52
RAT43DB2-12	4"-3" O.D. x 12'	8"-13" dia.	(4) 3/4" x 19"	10.08	5.84
RAT43DB2-14	4"-3" O.D. x 14'	8"-13" dia.	(4) 3/4" x 19"	6.53	3.60
RAT43DB2-16	4"-3" O.D. x 16'	8"-13" dia.	(4) 3/4" x 19"	5.21	2.64

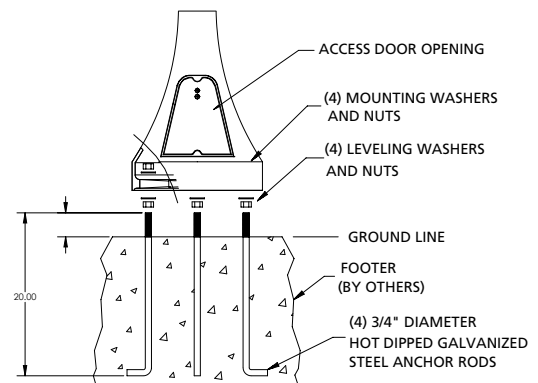
T238	2-3/8" O.D.		
DM10	Drill for single	DM390	Drill for triple at 90°
DM2180	Drill for double at 180°	DM490	Drill for quad at 90°
DM290	Drill for double at 90°	GFI	Provision only

Base	16" dia. x 22" H
Base Cover (included)	Internal Anchor Rods
Hand-Hole Opening	9" x 10"
Shaft	4" x 3" Smooth Tapered
Wall	0.125 Aluminum

BK	Black	Polyurethane enamel finish. Assemblies are shot blasted to create a surface profile which allows for the highest level of paint adhesion, creating superior weatherability and fade resistance.
BZ	Bronze	
WH	White	
VR	Verde	
GR	Green	

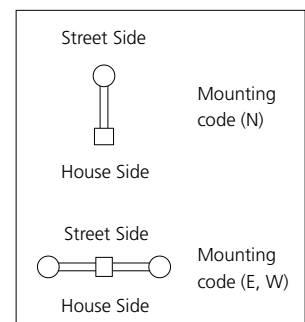
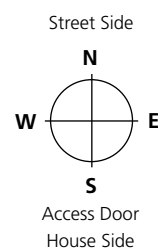
Diagram of a roundabout with four entry points. The top entry is labeled "STREET SIDE" and the bottom entry is labeled "HOUSE SIDE". Each entry has a black dot representing a vehicle.

Base Plate



The diagram will help you properly designate the orientation of your fixtures.

The access door side (S) is generally located on the house side positioning of the pole, with street side being the opposite (N). Therefore, if you plan to mount one fixture on the roadway side of a pole, you should use mounting code "N".



1 EPA values based on destructive break testing. For AASHTO ratings, contact factory.

PROJECT
FIXTURE TYPE
CATALOG#

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Round Aluminum Straight Poles

Catalog Number	Pole Dimensions	Bolt Circle	Anchor Bolt Size	Max. EPA ¹ 80	100
RAS4DB2-10	4" O.D. x 10'	8"-13" dia.	(4) 3/4" x 19"	12.53	7.52
RAS4DB2-12	4" O.D. x 12'	8"-13" dia.	(4) 3/4" x 19"	10.08	5.84
RAS4DB2-14	4" O.D. x 14'	8"-13" dia.	(4) 3/4" x 19"	6.53	3.60
RAS4DB2-16	4" O.D. x 16'	8"-13" dia.	(4) 3/4" x 19"	5.21	2.64

Tenon Options

T238	2-3/8" O.D.	T300	3" O.D.
DM10	Drill for single	DM390	Drill for triple at 90°
DM2180	Drill for double at 180°	DM490	Drill for quad at 90°
DM290	Drill for double at 90°	GFI	Provision only

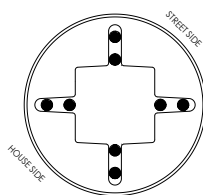
Dimensions

Base	16" dia. x 22" H
Base Cover (included)	Internal Anchor Rods
Hand-Hole Opening	9" x 10"
Shaft	4" Smooth Straight
Wall	0.125 Aluminum

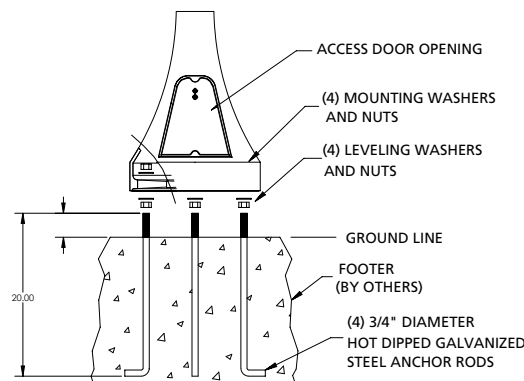
Finishes

BK	Black	Polyurethane enamel finish. Assemblies are shot blasted to create a surface profile which allows for the highest level of paint adhesion, creating superior weatherability and fade resistance.
BZ	Bronze	
WH	White	
VR	Verde	
GR	Green	

Example: RAS4DB2-12-BK



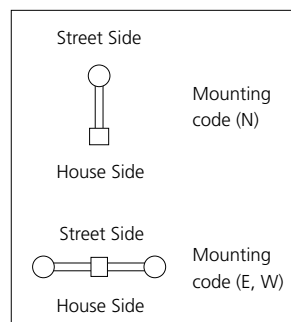
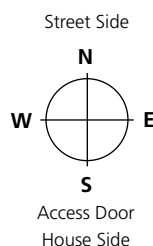
Base Plate



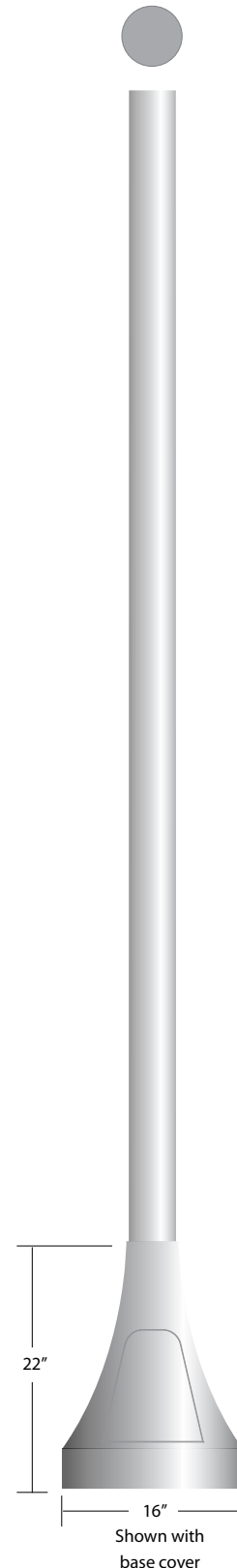
When ordering:

The diagram will help you properly designate the orientation of your fixtures.

The access door side (S) is generally located on the house side positioning of the pole, with street side being the opposite (N). Therefore, if you plan to mount one fixture on the roadway side of a pole, you should use mounting code "N".



¹ EPA values based on destructive break testing. For AASHTO ratings, contact factory.



PROJECT
FIXTURE TYPE
CATALOG#

Round Aluminum Straight Poles

Catalog Number	Pole Dimensions	Bolt Circle	Anchor Bolt Size	Max. EPA ¹
RAS4DB3-8	4" O.D. x 8'	7" dia.	(4) 3/4" x 19"	10.05 5.93
RAS4DB3-10	4" O.D. x 10'	7" dia.	(4) 3/4" x 19"	7.96 4.48
RAS4DB3-12	4" O.D. x 12'	7" dia.	(4) 3/4" x 19"	5.06 2.55

Tenon Options

T238	2-3/8" O.D.	T300	3" O.D.
DM10	Drill for single	DM390	Drill for triple at 90°
DM2180	Drill for double at 180°	DM490	Drill for quad at 90°
DM290	Drill for double at 90°	GFI	Provision only

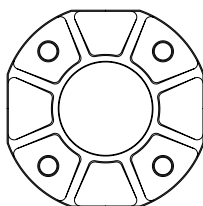
Dimensions

Base Plate	9" dia.
Base Cover (included)	2 Piece Decorative
Hand-Hole Opening	2" x 4" Oval
Shaft	4" Straight
Wall	0.188 Aluminum

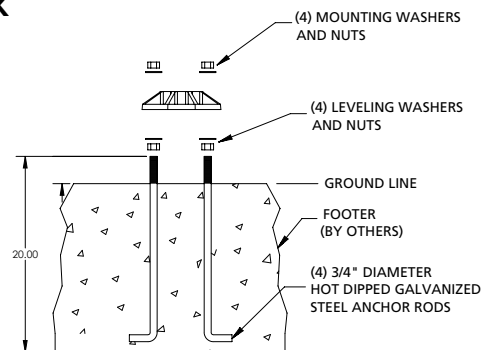
Finishes

BK	Black	Polyurethane enamel finish. Assemblies are shot blasted to create a surface profile which allows for the highest level of paint adhesion, creating superior weatherability and fade resistance.
BZ	Bronze	
WH	White	
VR	Verde	
GR	Green	

Example: RAS4DB3-12-T238-BK



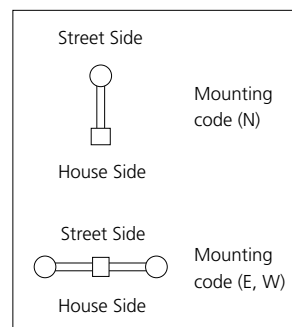
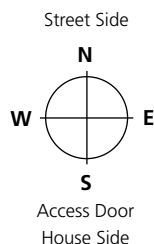
Base Plate



When ordering:

The diagram will help you properly designate the orientation of your fixtures.

The access door side (S) is generally located on the house side positioning of the pole, with street side being the opposite (N). Therefore, if you plan to mount one fixture on the roadway side of a pole, you should use mounting code "N".



¹ EPA values based on destructive break testing. For AASHTO ratings, contact factory.

PROJECT
FIXTURE TYPE
CATALOG#

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Round Aluminum Tapered Poles

Catalog Number	Pole Dimensions	Bolt Circle	Anchor Bolt Size	Max. EPA ¹	80	100
RAT53DB3-10	5"-3" O.D. x 10'	8"-9" dia.	(4) 3/4" x 19"	11.22	6.73	
RAT53DB3-12	5"-3" O.D. x 12'	8"-9" dia.	(4) 3/4" x 19"	9.03	5.23	
RAT53DB3-14	5"-3" O.D. x 14'	8"-9" dia.	(4) 3/4" x 19"	5.85	3.23	
RAT53DB3-16	5"-3" O.D. x 16'	8"-9" dia.	(4) 3/4" x 19"	4.67	2.37	

Tenon Options

T238	2-3/8" O.D.		
DM10	Drill for single	DM390	Drill for triple at 90°
DM2180	Drill for double at 180°	DM490	Drill for quad at 90°
DM290	Drill for double at 90°	GFI	Provision only

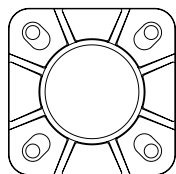
Dimensions

Base Plate	9" Square
Base Cover (included)	2 Piece Decorative
Hand-Hole Opening	2" x 4" Oval
Shaft	5" - 3" Tapered
Wall	0.125 Aluminum

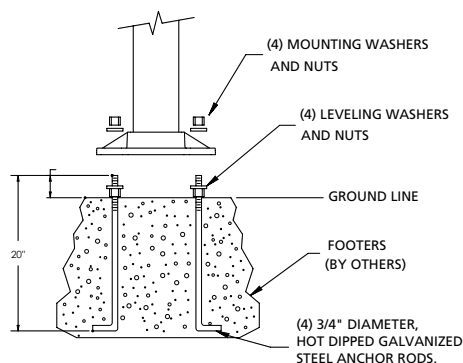
Finishes

BK	Black	Polyurethane enamel finish. Assemblies are shot blasted to create a surface profile which allows for the highest level of paint adhesion, creating superior weatherability and fade resistance.
BZ	Bronze	
WH	White	
VR	Verde	
GR	Green	

Example: RAT53DB3-12-BK



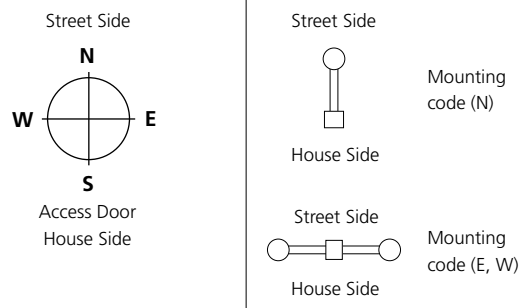
Base Plate



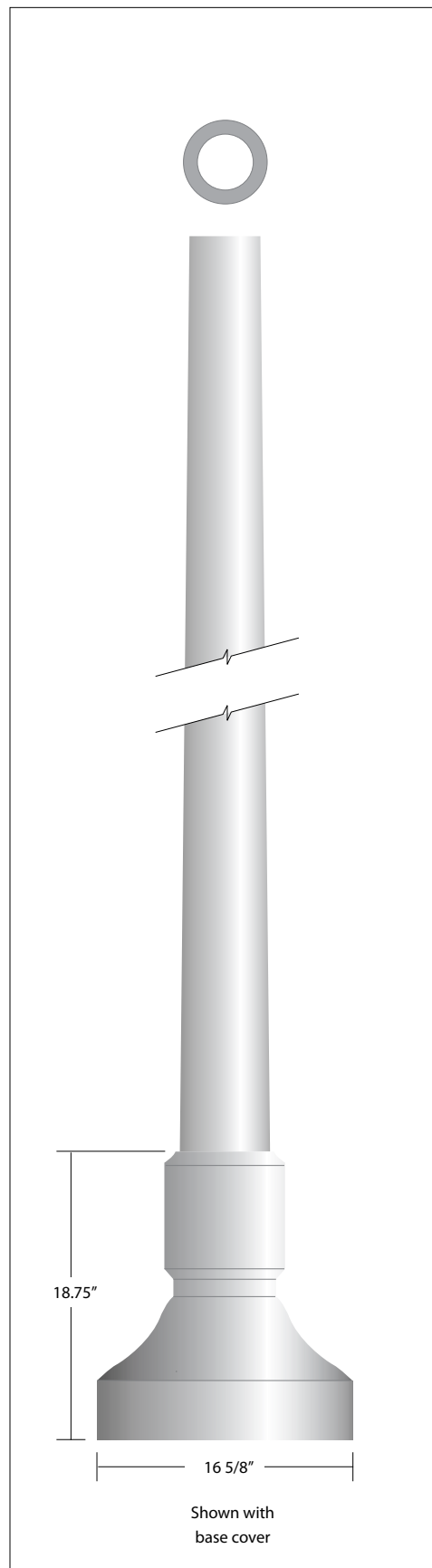
When ordering:

The diagram will help you properly designate the orientation of your fixtures.

The access door side (S) is generally located on the house side positioning of the pole, with street side being the opposite (N). Therefore, if you plan to mount one fixture on the roadway side of a pole, you should use mounting code "N".

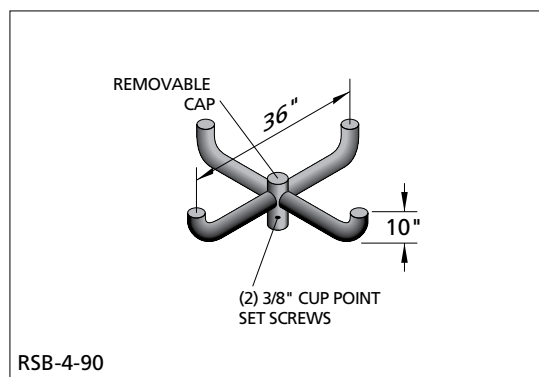
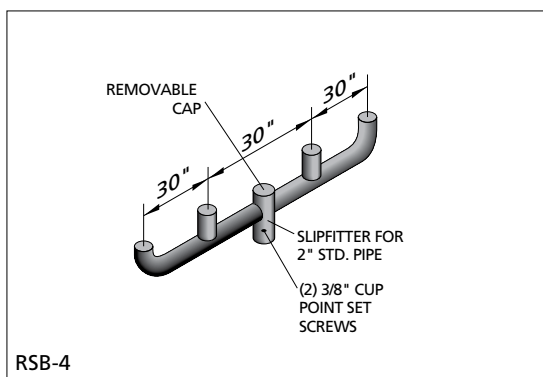
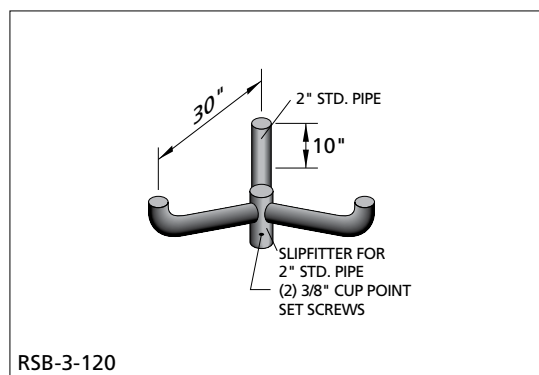
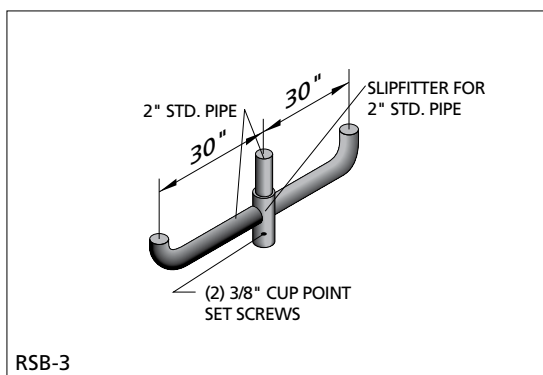
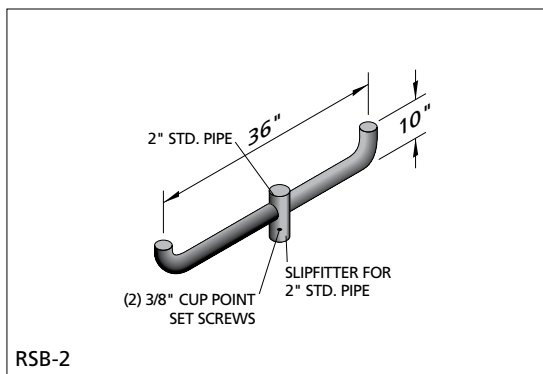


¹ EPA values based on destructive break testing. For AASHTO ratings, contact factory.



PROJECT
FIXTURE TYPE
CATALOG#

Steel Mounting Brackets



Terms & Conditions of Sale

All quotations and bids and the acceptance of orders are subject to approval.

PRICING in effect on date of receipt of order except:

A. Written quotations will be held firm for a period of 60 days from the date of quotation.

B. If order specifies that shipment is to be held or deferred beyond 30 days from date of order, prices in effect on the date of shipment will apply.

C. In the event of price reductions between the date of order and the date of shipment, the original price will apply.

HOLD ORDERS: Orders received with Hold for Release or Approval, etc., are not booked and processed for manufacture until release is given. Subject to pricing terms above.

TERMS: Net 30 days from date of invoice.

MINIMUM ORDER SIZE is \$100.00 net plus tax and transportation charges will be made if applicable.

TAXES: Buyer agrees to assume responsibility for all Federal, State or Local taxes applicable or arising out of the fulfillment of buyer's purchase order.

PACKING: All prices are based on the use of standard domestic packaging and packing.

SHIPPING AND HANDLING ALLOWANCE:

All surface freight shipments are F.O.B. shipping point with freight allowed on orders in the amount of \$3500.00 or over for shipments to destinations within the continental United States.

ROUTING: Seller reserves the right to use its own discretion in routing all shipments where freight charges are allowed. Shipments will be made in any manner requested by the customer when possible, provided the customer will assume any additional transportation costs.

EXPRESS, AIR EXPRESS AND AIR FREIGHT SHIPMENT: will be forwarded transportation charges collect. A surface freight rate allowance will be made on shipments amounting to \$3500.00 and over, based on the lowest rate to the destination.

UPS shipments are prepaid and insured. All charges will be added to the face of the invoice.

PARTIAL SHIPMENTS: No freight allowance will be made on a shipment having a net value of less than \$3500.00. **NOTE:** Anchor bolts not shipped with poles and back boxes are subject to freight charges (F.O.B. shipping point).

PASSAGE OF TITLE AND RISK: Loss and damages shall pass to the Buyer on delivery of goods by Seller to the carrier.

SHORTAGE, TRANSPORTATION CLAIMS: Buyer must give notice of any shortage in shipment within 5 days after delivery of goods. Claims for damage in shipment should be made to the carrier within legal limits prescribed by the carrier's tariff.

RETURNS Products of Seller are made to order; thus Seller is not obligated to accept returns and there is no standard "restocking" charge. Under no circumstances will returns be accepted without written factory authorization. Requests for returns must be made in writing within 60 days of shipment. Since each request will be considered individually, a customer agreement letter must be executed before an RGA will be issued. Custom-made goods are not returnable. This letter will establish the terms and conditions of return agreeable to both the Seller and Buyer.

CREDIT: Seller may at any time, limit or withdraw the credit of Buyer; and may require payment prior to delivery, without affecting the obligation of the Buyer to complete contract. Upon failure of Buyer to make prepayment as demanded the order will be subject to cancellation charges.

LAW: This contract shall be construed in accordance with and governed by the laws of the State of California. Seller may cancel remainder of contract, sell all or any undelivered goods without notice at public or private sale, and hold Buyer responsible for any loss.

CANCELLATION: Orders are not subject to cancellation either in whole or part, except by consent of Seller. Cancellations are subject to a minimum service charge of 35%.

FORCE MAJEURE: Seller shall not be liable for any delay in delivery of any part or all of the goods, due to accidents, strikes, lock-outs, fires, riots, war, government regulations or any other cause beyond the control of Seller; or in the event of an embargo, lack of shipping facilities, strike by or lock-out of employees of shipping facilities, or other inability to transport the goods beyond control of Seller. If any part of the goods is not delivered by the Seller, or is not in accordance with the contract, the contract for the remainder of the goods and the Buyer's obligations hereunder shall not be affected thereby. Where goods are damaged in transit, Buyer may accept delivery without claim, or at its option, reject the goods and reduce the covering contract to the extent of the rejection.

GUARANTEE: Goods are guaranteed against defects in material and workmanship for a period of one year from date of shipment.

The obligation of Seller under this guarantee is limited to the furnishing of new parts, free of charge, in exchange for parts which have been proven defective under normal usage after proper installation, and does not include any other cost, such as removal of defective part, installation, labor or consequential damages of any kind.

WARRANTIES: SELLER MAKES NO REPRESENTATIONS OR WARRANTIES EXPRESSED OR IMPLIED, EXCEPT AS HEREIN SPECIFICALLY SET FORTH, AND BUYER EXPRESSLY ACKNOWLEDGES THAT NO SUCH REPRESENTATIONS OR WARRANTIES HAVE BEEN MADE BY SELLER OR ON ITS BEHALF. ALL OTHER WARRANTIES, (WHETHER WRITTEN, ORAL OR IMPLIED) INCLUDING WARRANTY OF MERCHANTABILITY IN OTHER RESPECTS THAN SPECIFICALLY SET FORTH HEREIN, AND WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED.

BUYER'S DAMAGES: In no event shall Seller be liable for prospective profits, special, indirect or consequential damages; liability shall be strictly limited to the price of the goods.

WARRANTY ON POLES: Any poles ordered hereunder are warranted to be designed in accordance with generally accepted engineering practice.

The warranty of the design of these products is limited to their ability to withstand, without destruction, stress loads applied to the product at or before the time of proper installation, or to an identically designed product. These test loads are to be the calculated equivalents of the yield strength loads for which the products are designed and as are represented on Seller's approved design drawings. Where specifications are set forth, minimum standards shall apply.

Calculated relationships between strength loads, and wind velocity, presented in Seller's catalog are derived from generally accepted engineering authorities, and are presented for the convenience of the customer only. For exact pole loading and rating within specific luminaire projected area, consult factory.

MODIFICATION: No modification or variation of contract shall be binding unless in writing signed by both parties, and no waiver by Seller of any default shall be deemed a waiver of any subsequent default.

ALLSCAPE

ALLSCAPE Quality Assurance Policy

LIMITED WARRANTY

A. Allscape warrants that its products (other than ballasts, lamps, photoelectric controls and emergency battery packs) are free of defects in workmanship and materials for a period of three (3) years except as indicated below:

ten (10) years for all grade mounted composite, copper, and transformers;
lifetime for cast bronze and stainless steel.

SUCH WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Allscape, at its sole option, will repair or replace, F.O.B. our factory, freight prepaid, any Allscape product (other than ballasts, lamps, photoelectric controls and emergency battery packs) defective in workmanship or materials. Such repair or replacement is the sole and exclusive remedy against Allscape and is limited to three (3) years from date of original shipment by Allscape. Allscape reserves the right to determine whether to repair or replace. No charge-back, or charge for labor or material, that does not have Allscape's prior written approval from its Corporate Offices will be honored, accepted or paid by Allscape. Allscape will not be responsible for any consequential or incidental damages in connection with any breach of its aforementioned warranty.

B. Ballasts, lamps, photoelectric controls and emergency battery packs may be covered by separate ballast manufacturers' warranties. Allscape does not make any warranties whatsoever as to these items which are sold by Allscape "AS IS," and Allscape will accept no responsibility or liability whatsoever therefore.

C. Allscape will not be responsible for any products subjected to inappropriate application or installed or modified in any way that is not in accordance with Allscape's instructions.

D. No agent, employee or representative of Allscape has any authority to bind Allscape to any other affirmation, representation or warranty concerning goods sold by Allscape.

ALLSCAPE

Allscape 100 Craftway Littlestown, PA 17340 Ph. 800-273-1569 Fax (717) 359-9545 www.allscape.net

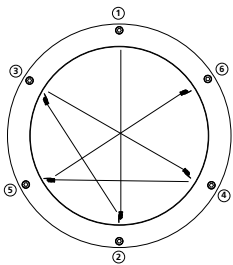
Safety, Warnings and Suggestions

- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ³ **Make** sure that electrical power is disconnected before any work is performed.
- ⁴ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁵ **As** a rule of thumb, the higher the fixture is mounted above grade potential problems such as foliage over growth or water, mud etc. collecting on the lens are reduced.
- ⁶ **All** wiring and installation should meet local, state and national electrical codes.
- ⁷ **This** will help prevent wire connector corrosion due to water penetration from the conduit.
- ⁸ **Install** correct lamp type and wattage.
- ⁹ **If** condensation, built up during installation, is visible on the lens it is recommended that the fixture be turned on before the lens ring is fully secured for approximately 30 minutes. This should allow the condensation to be exhausted.

P#32A43565

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Use several rotations of the following sequence to firmly tighten the lens ring screws, to 25 in/lbs.

Mount fixture as high above grade as possible to prevent debris and water standing on fixture surface.

Create an isolation barrier around the fixture to prevent rocks and foliage from interfering with light output.

Add drainage media below and around fixture to prevent standing water.

1. Prepare the site with adequate excavation to install fixtures¹. Drainage media below fixture will enhance installation^{2,3}.

2. Remove lens ring, lens, gasket,⁴ reflector assembly and "D" shaped splice box cover plate.

3. Connect conduit to the 3/4" NPT openings in the splice compartment at the bottom of the fixture, using the appropriate thread sealing compound. Tighten to 15 ft-lbs. max.

4. Position fixture so it is flush or just above the installation grade⁵ and orient the fixture with regard to architectural requirements to obtain the appropriate accent.

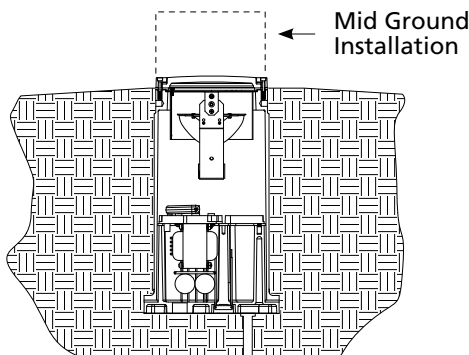
For Mid Ground installation up to 6" above grade use soil mount or concrete base approach. For heights greater than 6" use a concrete base to anchor and stabilize fixture. A concrete base is always preferred.

5. Make power and ground connections using the water-proof connectors provided. It is recommended that RTV Silicone or other re-enterable water sealing compound be used to seal the conduit entry points⁷.

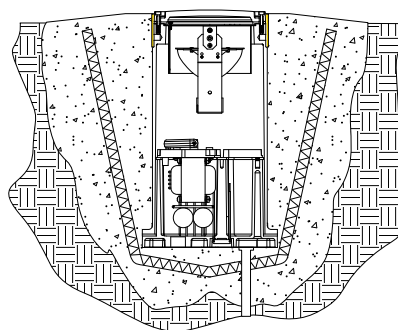
6. Reinstall "D" shaped splice box cover plate ensuring that all three (3) screws are securely tightened.⁴ Reinstall reflector assembly, install lamp⁸ and make aiming adjustments.

7. Install lens ring and lens with gasket⁴

IMPORTANT! A CRISS CROSS PATTERN IS REQUIRED TO ENSURE THAT A GOOD COMPRESSION SEAL IS MADE. If this is not accomplished the fixture could leak and be damaged. Tighten screws gradually using multiple tightening steps to 25 in/lbs.

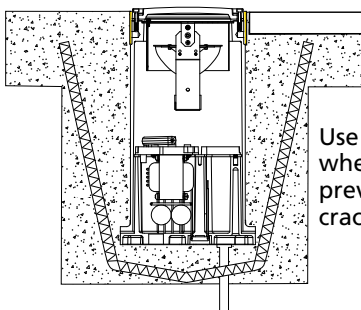


SL-23 In Soil



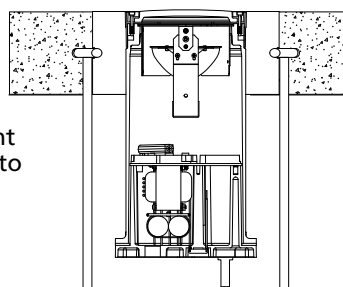
SL-23 In Soil With Concrete Base and Trim Ring

Concrete Paver/Marble



SL-23 In Concrete With Trim Ring

Install feet (3) on Trim Ring



SL-23 In Concrete With Grout Mask and Trim Ring

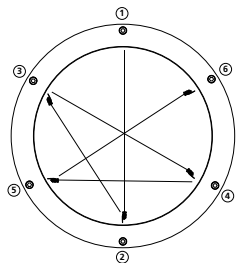
Safety, Warnings and Suggestions

- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ³ **Make** sure that electrical power is disconnected before any work is performed.
- ⁴ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁵ **As** a rule of thumb, the higher the fixture is mounted above grade potential problems such as foliage over growth or water, mud etc. collecting on the lens are reduced.
- ⁶ **All** wiring and installation should meet local, state and national electrical codes.
- ⁷ **This** will help prevent wire connector corrosion due to water penetration from the conduit.
- ⁸ **Install** correct lamp type and wattage.
- ⁹ **If** condensation, built up during installation, is visible on the lens it is recommended that the fixture be turned on before the lens ring is fully secured for approximately 30 minutes. This should allow the condensation to be exhausted.

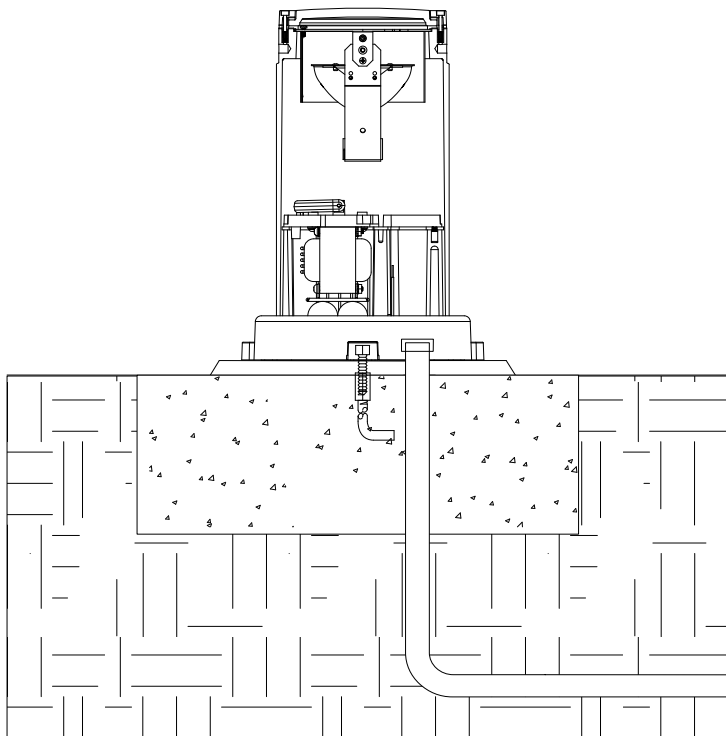
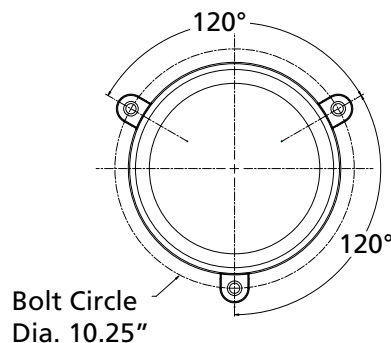
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Use several rotations of the following sequence to firmly tighten the lens ring screws, to 25 in/lbs.



1. Prepare the site with adequate excavation and install the anchor bolts and 3/8" couplers per factory supplied template¹.
2. Remove lens ring and lens with gasket,⁴ reflector assembly and "D" shaped splice box cover plate.
3. Connect conduit to the 3/4" NPT openings in the splice compartment at the bottom of the fixture, using the appropriate thread sealing compound. Tighten to 15 ft-lbs. max.
4. Make power and ground connections using the water-proof connectors provided. It is recommended that RTV Silicone or other re-enterable water sealing compound be used to seal the conduit entry points⁷.
5. Reinstall "D" shaped splice box cover plate ensuring that all three (3) screws are securely tightened.⁴ Reinstall reflector assembly, install lamp⁸ and make aiming adjustments.
6. Install lens ring and lens with gasket⁴ **IMPORTANT! A CRISS CROSS PATTERN IS REQUIRED TO ENSURE THAT A GOOD COMPRESSION SEAL IS MADE.** If this is not accomplished the fixture could leak and be damaged. Tighten screws gradually using multiple tightening steps to 25 in/lbs.
7. Install three bolts and level. Secure the base with (3)-3/8 socket cap or Allen cap bolts.

INSTALLATION SHEET

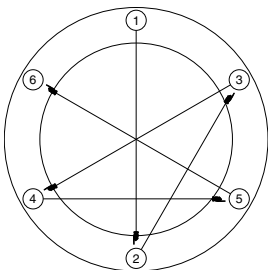
Safety, Warnings and Suggestions

- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ³ **Make** sure that electrical power is disconnected before any work is performed.
- ⁴ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁵ **As** a rule of thumb, the higher the fixture is mounted above grade potential problems such as foliage over growth or water, mud etc. collecting on the lens are reduced.
- ⁶ **All** wiring and installation should meet local, state and national electrical codes.
- ⁷ **This** will help prevent wire connector corrosion due to water penetration from the conduit.
- ⁸ **Install** correct lamp type and wattage.
- ⁹ **If** condensation, built up during installation, is visible on the lens it is recommended that the fixture be turned on before the lens ring is fully secured for approximately 30 minutes. This should allow the condensation to be exhausted.

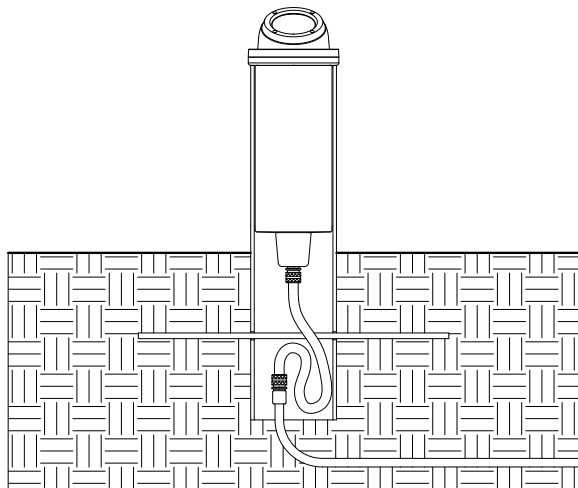
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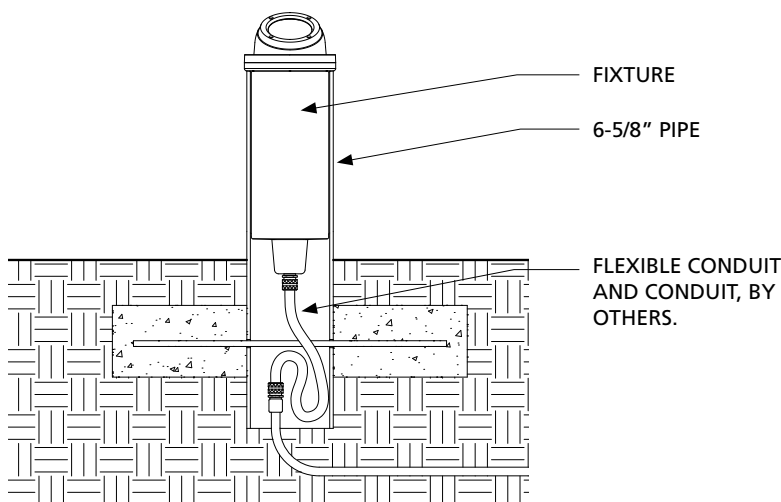
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Use several rotations of the following sequence to tighten lens ring screws, to 25 in/lbs.



SL-25 PIPE IN SOIL



SL-25 PIPE IN SOIL with CONCRETE

1. Prepare the site with adequate excavation to install the fixture mounted in the 6-5/8" dia. Pipe. Drainage media below fixture will enhance installation.

2. Remove lens ring and lens with gasket, reflector assembly, ballast assembly, and splice cover.

3. Connect conduit to the 3/4" NPT openings in the splice compartment at the bottom of the fixture using the appropriate thread sealing compound. Tighten securely.

4. Position fixture and pipe with regard to architectural requirements and to obtain the appropriate accent. If a greater degree of stability is required use concrete to anchor the base of the pipe and its reinforcing rod as shown in diagram. Pipe must have a minimum burial depth of 18" below grade.

5. Make power and ground connections using UL approved connectors. It is recommended that RTV silicone or other re-enterable water sealing compound be used to seal the conduit entry points.

6. Re-install splice cover, ballast assembly, and reflector assembly. Install lamp and make aiming adjustments.

7. Install lens ring and lens.

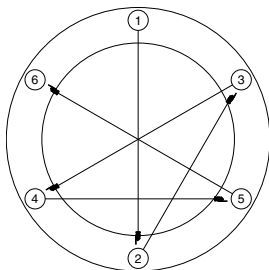
Safety, Warnings and Suggestions

- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ³ **Make** sure that electrical power is disconnected before any work is performed.
- ⁴ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁵ **As** a rule of thumb, the higher the fixture is mounted above grade potential problems such as foliage over growth or water, mud etc. collecting on the lens are reduced.
- ⁶ **All** wiring and installation should meet local, state and national electrical codes.
- ⁷ **This** will help prevent wire connector corrosion due to water penetration from the conduit.
- ⁸ **Install** correct lamp type and wattage.
- ⁹ **If** condensation, built up during installation, is visible on the lens it is recommended that the fixture be turned on before the lens ring is fully secured for approximately 30 minutes. This should allow the condensation to be exhausted.

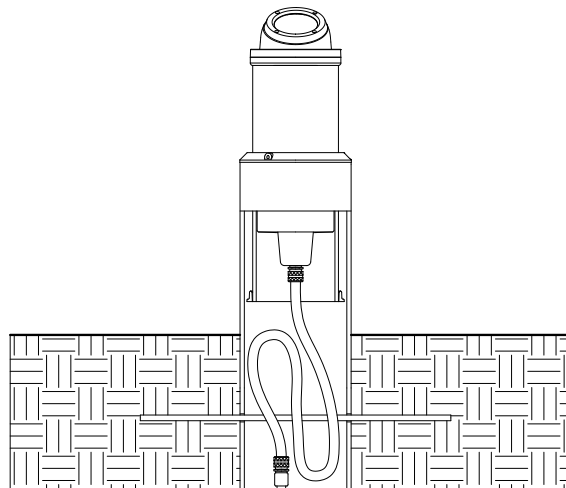
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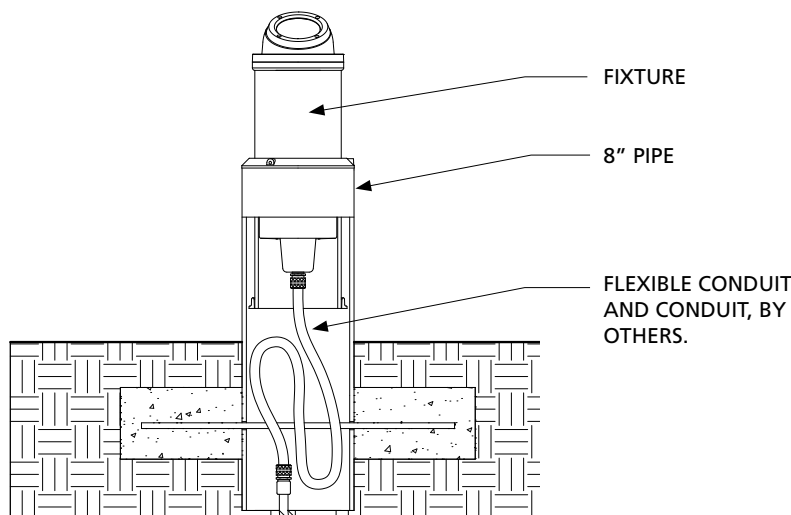
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Use several rotations of the following sequence to tighten lens ring screws, to 25 in/lbs.



SL-26 PIPE IN SOIL



SL-26 PIPE IN SOIL with CONCRETE

1. Prepare the site with adequate excavation to install the fixture mounted in the 8" Pipe. Drainage media below fixture will enhance installation.

2. Remove lens ring and lens with gasket, reflector assembly, ballast assembly, and splice cover.

3. Connect flexible conduit to the 3/4" NPT openings in the splice compartment at the bottom of the fixture using the appropriate thread sealing compound. Tighten securely. Ensure that adequate length of conduit be looped or coiled inside lower mounting pipe to allow full range of adjustment.

4. Position fixture and pipe with regard to architectural requirements and to obtain the appropriate accent. If a greater degree of stability is required use concrete to anchor the base of the pipe and its reinforcing rod as shown in diagram. Outer pipe must have minimum burial depth of 18" below grade

5. Make power and ground connections using UL approved connectors. It is recommended that RTV silicone or other re-enterable water sealing compound be used to seal the conduit entry points.

6. Re-install splice cover, ballast assembly, and reflector assembly. Install lamp and make aiming adjustments.

7. Install lens ring and lens.

8. Adjust fixture to desired height by loosening three screws on pipe transition casting, raising or lowering inner fixture assembly, and retightening screws.

9. Keep this sheet for future reference.

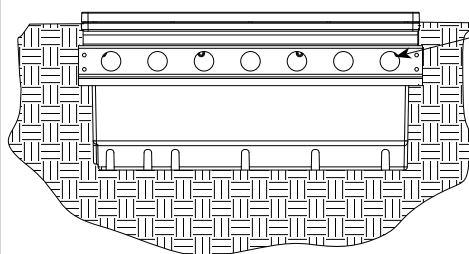
Safety, Warnings and Suggestions

- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ³ **Make** sure that electrical power is disconnected before any work is performed.
- ⁴ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁵ **Installing** the fixture a few inches above the grade can reduce potential problems that can be caused by water and mud etc. collecting on the lens.
- ⁶ **All** wiring and installation should meet local, state and national electrical codes.
- ⁷ **This** will help prevent wire connector corrosion due to water penetration from the conduit.
- ⁸ **Install** correct lamp type and wattage.
- ⁹ **If** condensation, built up during installation, is visible on the lens it is recommended that the fixture be turned on before the lens ring is fully secured for approximately 30 minutes. This should allow the condensation to be exhausted.

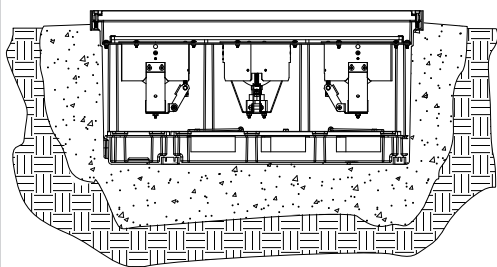
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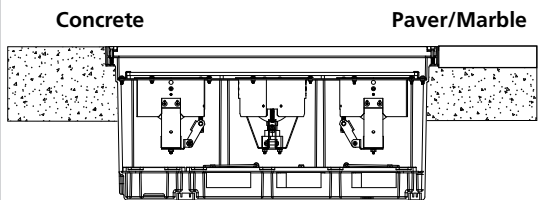
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SL-29 In Soil With Installation Cage
(For Soil Only Installations)



SL-29 In Soil With Concrete Base
and Trim Ring



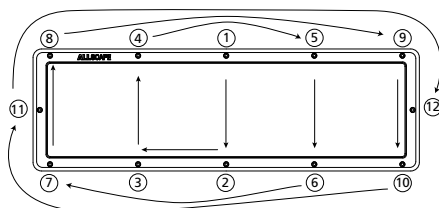
SL-29 In Concrete With Trim Ring
Use reinforcement where necessary
to prevent concrete cracking.

INSTALLATION CAGE

Mount Fixture as high above grade as possible to prevent debris and water standing on fixture surface.

Create an isolation barrier around the fixture to prevent rocks and foliage from interfering with light output.

Add drainage media below and around fixture to prevent standing water.



SL-29 Tightening Sequence

Use several rotations of the following sequence to tighten the lens ring screws, to 25 in/lbs.

1. Prepare the site with adequate excavation to install fixtures¹. Drainage media below fixture will enhance installation^{2,3}.

2. Remove lens frame and lens with gasket,⁴ reflector assembly and splice box cover plate.

3. Connect conduit to the 3/4" NPT openings in the splice compartment at the bottom of the fixture, using the appropriate thread sealing compound. Tighten to 15 ft-lbs. max.

4. Position fixture so it is flush in concrete or just above the landscape grade⁵ and orient the fixture with regard to architectural requirements to obtain the appropriate accent. For concrete pour installations, replace lens ring, Lens & gasket with provided debris cover, gasket and screws. After concrete sets reinstall lens ring, lens, and gasket.

5. Make power and ground connections using provided waterproof wire nuts. It is recommended that RTV Silicone or other re-enterable water sealing compound be used to seal the conduit entry points⁷.

6. Reinstall splice box cover plate and ensuring that all four (4) screws are securely tightened.⁴ Reinstall reflector assembly, install lamp⁸ and make aiming adjustments.

7. Install lens and lens with gasket⁴
IMPORTANT! FOLLOW RECOMMENDED TIGHTENING PATTERN TO ENSURE THAT A GOOD COMPRESSION SEAL IS MADE. If this is not accomplished the fixture could leak and be damaged. Tighten screws gradually using multiple tightening steps to 25 in/lbs.

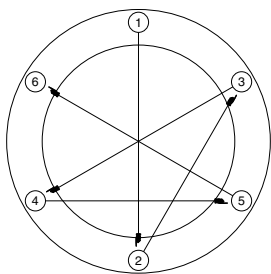
Safety, Warnings and Suggestions

- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ³ **Make** sure that electrical power is disconnected before any work is performed.
- ⁴ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁵ **As** a rule of thumb, the higher the fixture is mounted above grade potential problems such as foliage over growth or water, mud etc. collecting on the lens are reduced.
- ⁶ **All** wiring and installation should meet local, state and national electrical codes.
- ⁷ **This** will help prevent wire connector corrosion due to water penetration from the conduit.
- ⁸ **Install** correct lamp type and wattage.
- ⁹ **If** condensation, built up during installation, is visible on the lens it is recommended that the fixture be turned on before the lens ring is fully secured for approximately 30 minutes. This should allow the condensation to be exhausted.

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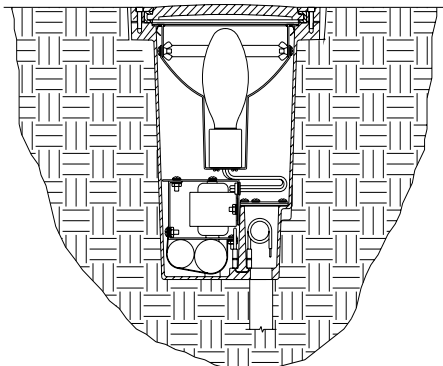


Use several rotations of the following sequence to tighten the lens ring screws, to 25 in/lbs.

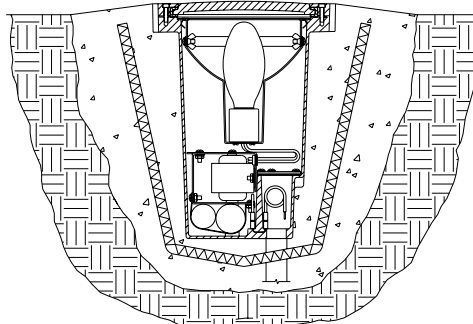
Mount Fixture as high above grade as possible to prevent debris and water standing on fixture surface.

Create an isolation barrier around the fixture to prevent rocks and foliage from interfering with light output.

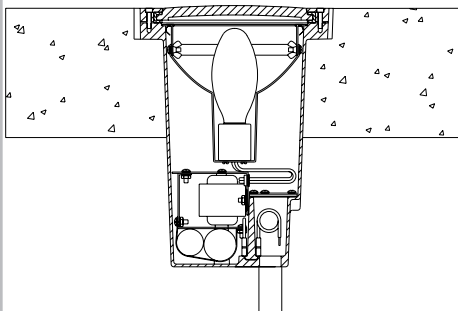
Add drainage media below and around fixture to prevent standing water.



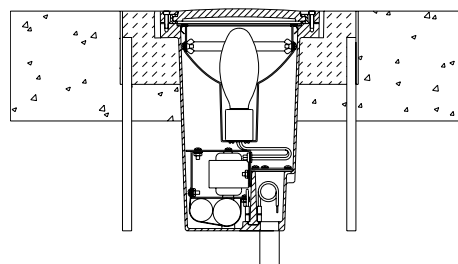
SL-33 In Soil



SL-33 In Soil With Concrete Base



SL-33 In Concrete



SL-33 In Concrete With Grout Mask

1. Prepare the site with adequate excavation to install fixtures¹. Drainage media below fixture will enhance installation^{2,3}.

2. Remove lens ring and lens with gasket,⁴ reflector assembly and "D" shaped splice box cover plate and gasket.

3. Connect conduit to the 3/4" NPT openings in the splice compartment at the bottom of the fixture, using the appropriate thread sealing compound. Tighten to 15 ft-lbs. max.

4. Position fixture so it is flush or just above the installation area grade⁵ and orient the fixture with regard to architectural requirements to obtain the appropriate accent.

5. Make power and ground connections using UL approved connectors. It is recommended that RTV Silicone or other re-enterable water sealing compound be used to seal the conduit entry points⁷.

6. Reinstall "D" shaped splice box cover plate and gasket ensuring that all four (4) screws are securely tightened.⁴ Reinstall reflector assembly, install lamp⁸ and make aiming adjustments.

7. Install lens ring and lens with gasket⁴ IMPORTANT! A CRISS CROSS PATTERN IS REQUIRED TO ENSURE THAT A GOOD COMPRESSION SEAL IS MADE. If this is not accomplished the fixture could leak and be damaged. Tighten screws gradually using multiple tightening steps to 25 in/lbs.

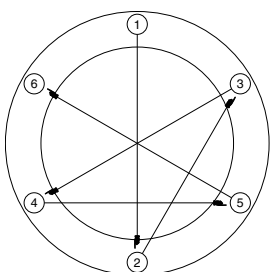
Safety, Warnings and Suggestions

- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ³ **Make** sure that electrical power is disconnected before any work is performed.
- ⁴ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁵ **As** a rule of thumb, the higher the fixture is mounted above grade potential problems such as foliage over growth or water, mud etc. collecting on the lens are reduced.
- ⁶ **All** wiring and installation should meet local, state and national electrical codes.
- ⁷ **This** will help prevent wire connector corrosion due to water penetration from the conduit.
- ⁸ **Install** correct lamp type and wattage.

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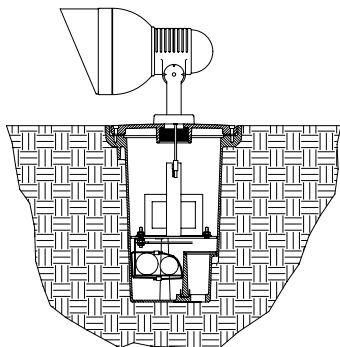
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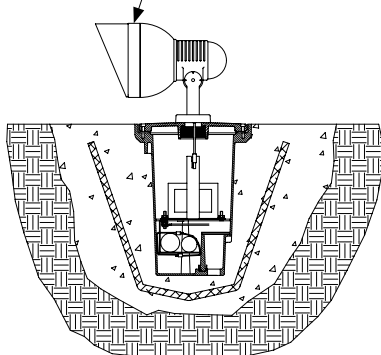


Use several rotations of the following sequence to tighten the cast cover plate screws, to 25 in/lbs.

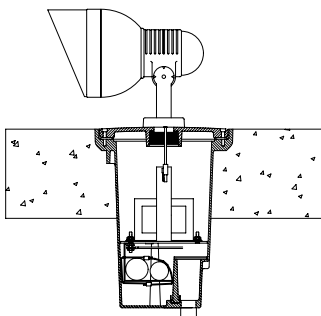
NOTE
FL-62 FIXTURE
SHOWN AS REFERENCE.



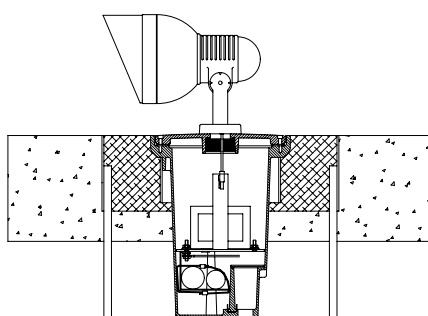
SL-33 In Soil



SL-33 In Soil With Concrete Base



SL-33 In Concrete



SL-33 In Concrete With Grout Mask

1. Prepare the site with adequate excavation to install fixtures¹. Drainage media below fixture will enhance installation^{2,3}.

2. Remove the cover plate with gasket,⁴ ballast assembly and "D" shaped splice box cover plate and gasket.

3. Connect conduit to the 3/4" NPT openings in the splice compartment at the bottom of the fixture, using the appropriate thread sealing compound. Tighten to 15 ft-lbs. max.

4. Position the ballast housing so it is flush or just above the installation area grade.⁵

5. Make power and ground connections using UL approved connectors. Make wire connection in the splice compartment using waterproof wire nuts by contractor. It is recommended that RTV Silicone or other re-enterable water sealing compound be used to seal the conduit entry points⁷.

6. Reinstall "D" shaped splice box cover plate and gasket ensuring that all four (4) screws are securely tightened.⁴ Reinstall ballast assembly.

7. Install the ballast cover with the fixture mounted to it and gasket-see installation sheet on how to mount the fixture. **IMPORTANT! A CRISS CROSS PATTERN IS REQUIRED TO ENSURE THAT A GOOD COMPRESSION SEAL IS MADE.** If this is not accomplished the fixture could leak and be damaged. Tighten screws gradually using multiple tightening steps to 25 in/lbs.

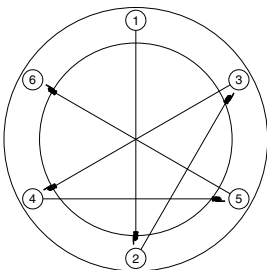
Safety, Warnings and Suggestions

- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ³ **Make** sure that electrical power is disconnected before any work is performed.
- ⁴ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁵ **As** a rule of thumb, the higher the fixture is mounted above grade potential problems such as foliage over growth or water, mud etc. collecting on the lens are reduced.
- ⁶ **All** wiring and installation should meet local, state and national electrical codes.
- ⁷ **This** will help prevent wire connector corrosion due to water penetration from the conduit.
- ⁸ **Install** correct lamp type and wattage.
- ⁹ **If** condensation, built up during installation, is visible on the lens it is recommended that the fixture be turned on before the lens ring is fully secured for approximately 30 minutes. This should allow the condensation to be exhausted.

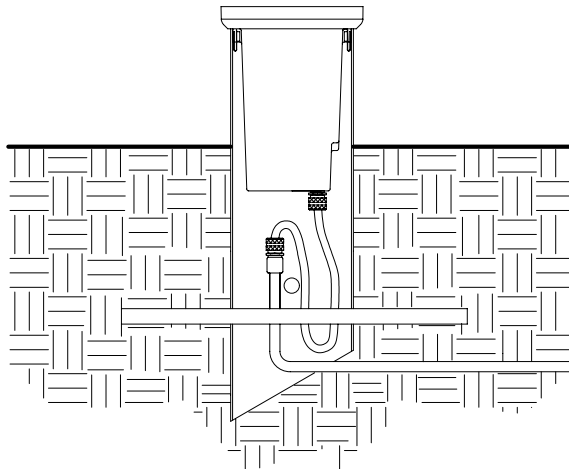
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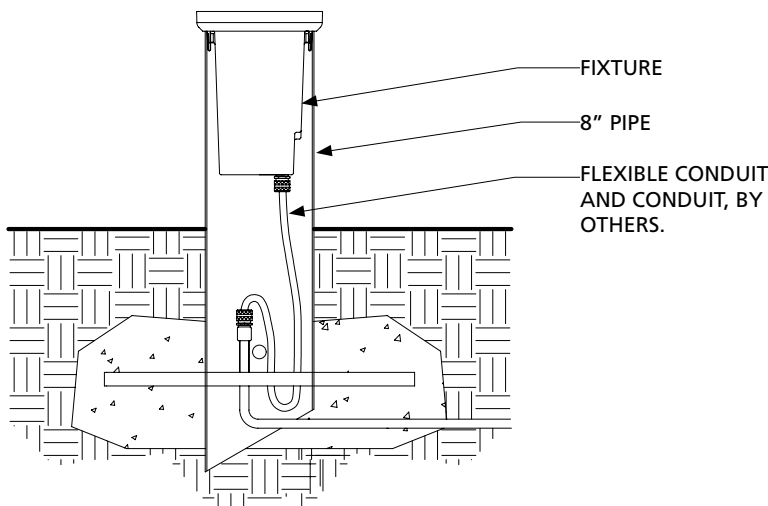
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Use several rotations of the following sequence to tighten lens ring screws, to 25 in/lbs.



SL-34 8" PIPE IN SOIL



SL-34 8" PIPE IN SOIL with CONCRETE

1. Prepare the site with adequate excavation to install the fixture mounted in the 8" dia. pipe^{1,2,4}. Drainage media below fixture will enhance installation³.

2. Remove lens ring and lens with gasket,⁵ reflector assembly and "D" shaped splice box cover plate and gasket.

3. Connect conduit to the 3/4" NPT openings in the splice compartment at the bottom of the fixture, using the appropriate thread sealing compound. Tighten to 15 ft-lbs. max.

4. Position fixture and pipe with regard to architectural requirements and to obtain the appropriate accent. If a greater degree of stability is required use a 1" reinforced pipe in a cross pattern at the bottom of the 8" pipe as shown in the diagram below.

5. Make power and ground connections using UL approved connectors. It is recommended that RTV Silicone or other re-enterable water sealing compound be used to seal the conduit entry points⁷.

6. Reinstall "D" shaped splice box cover plate and gasket ensuring that all four (4) screws are securely tightened.⁵ Reinstall reflector assembly, install lamp⁸ and make aiming adjustments.

7. Install lens ring and lens with gasket⁴ IMPORTANT! A CRISS CROSS PATTERN IS REQUIRED TO ENSURE THAT A GOOD COMPRESSION SEAL IS MADE. If this is not accomplished the fixture could leak and be damaged. Tighten screws gradually using multiple tightening steps to 25 in/lbs.

INSTALLATION SHEET

Safety, Warnings and Suggestions

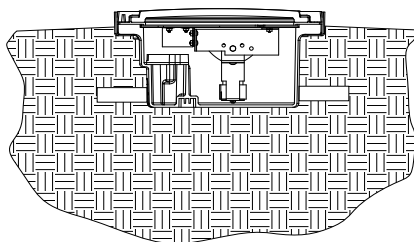
- ¹ Care should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² Avoid installing fixtures in locations where water collects and stands for prolonged periods.
- ³ Make sure that electrical power is disconnected before any work is performed.
- ⁴ All gaskets and sealing surfaces must be kept clean during installation.
- ⁵ Installing the fixture a few inches above the grade can reduce potential problems that can be caused by water and mud etc. collecting on the lens.
- ⁶ All wiring and installation should meet local, state and national electrical codes.
- ⁷ This will help prevent wire connector corrosion due to water penetration from the conduit.
- ⁸ Install correct lamp type and wattage.
- ⁹ If condensation, built up during installation, is visible on the lens it is recommended that the fixture be turned on before the lens ring is fully secured for approximately 30 minutes. This should allow the condensation to be exhausted.

Note: due to the SL-42's shallow profile it must be anchored to rebar, (connect to three anchor points provided on fixture housing) or held in place with a 21 lbs. min. weight, to keep it from floating out of the concrete during installation.

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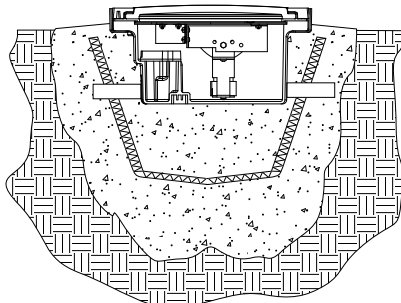


SL-42 In Soil

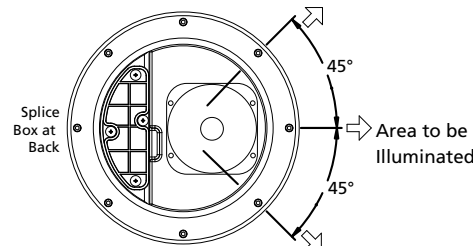
Mount Fixture as high above grade as possible to prevent debris and water standing on fixture surface.

Create an isolation barrier around the fixture to prevent rocks and foliage from interfering with light output.

Add drainage media below and around fixture to prevent standing water.



SL-42 In Soil With Concrete Base and Trim Ring



SL-42 Aiming Direction

1. Prepare the site with adequate excavation to install fixtures¹. Drainage media below fixture will enhance installation^{2,3}.

2. Remove lens ring and lens with gasket,⁴ reflector assembly and "D" shaped splice box cover plate and gasket.

3. Connect conduit to the 3/4" NPT openings in the splice compartment at the bottom of the fixture, using the appropriate thread sealing compound. Tighten to 15 ft-lbs. max.

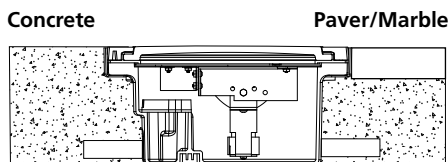
4. Position fixture so it is flush in concrete or above the landscape grade⁵ and orient the fixture with regard to architectural requirements to obtain the appropriate accent.

Warning: Reflector rotates $\pm 45^\circ$ so fixture position is critical. Splice box must be positioned 180° from area to be illuminated. For concrete pour installations, replace lens ring, Lens & gasket with provided debris cover, gasket and screws. After concrete sets reinstall lens ring, lens, and gasket.

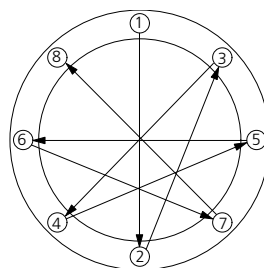
5. Make power and ground connections using provided waterproof wire nuts. It is recommended that RTV Silicone or other re-enterable water sealing compound be used to seal the conduit entry points⁷.

6. Reinstall "D" shaped splice box cover plate and gasket ensuring that all four (4) screws are securely tightened.⁴ Reinstall reflector assembly, install lamp⁸ and make aiming adjustments.

7. Install lens ring and lens with gasket⁴
IMPORTANT! A CRISS CROSS PATTERN IS REQUIRED TO ENSURE THAT A GOOD COMPRESSION SEAL IS MADE. If this is not accomplished the fixture could leak and be damaged. Tighten socket head cap screws gradually using multiple tightening steps to 50 in/lbs.



SL-42 In Concrete With Trim Ring



Use several rotations of the following sequence to tighten the lens ring socket head cap screws, to 50 in/lbs.

Note: due to the SL-42's shallow profile it must be anchored to rebar, (connect to three anchor points provided on fixture housing) or held in place with a 21 lbs. min. weight, to keep it from floating out of the concrete during installation.

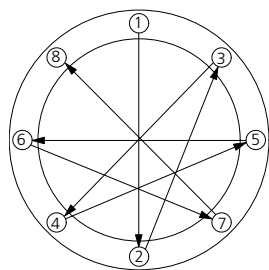
Safety, Warnings and Suggestions

- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ³ **Make** sure that electrical power is disconnected before any work is performed.
- ⁴ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁵ **As** a rule of thumb, the higher the fixture is mounted above grade potential problems such as foliage over growth or water, mud etc. collecting on the lens are reduced.
- ⁶ **All** wiring and installation should meet local, state and national electrical codes.
- ⁷ **This** will help prevent wire connector corrosion due to water penetration from the conduit.
- ⁸ **Install** correct lamp type and wattage.
- ⁹ **If** condensation, built up during installation, is visible on the lens it is recommended that the fixture be turned on before the lens ring is fully secured for approximately 30 minutes. This should allow the condensation to be exhausted.

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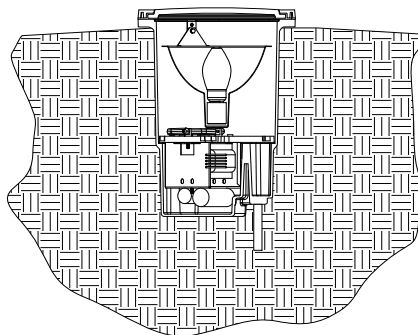


Use several rotations of the following sequence to tighten the lens ring socket head cap screws, to 50 in/lbs.

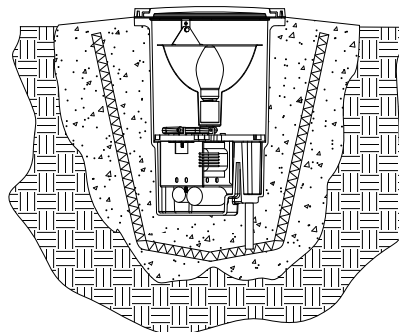
Mount Fixture as high above grade as possible to prevent debris and water standing on fixture surface.

Create an isolation barrier around the fixture to prevent rocks and foliage from interfering with light output.

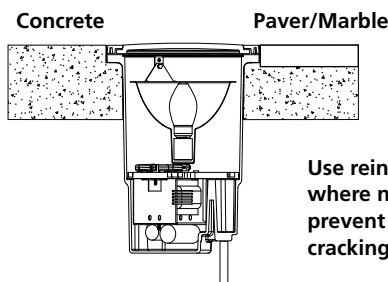
Add drainage media below and around fixture to prevent standing water.



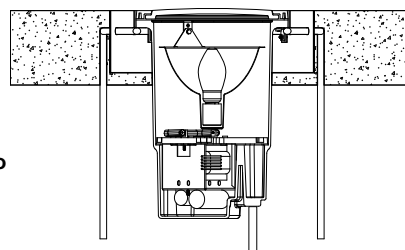
SL-43 In Soil



SL-43 In Soil With Concrete Base and Trim Ring



SL-43 In Concrete With Trim Ring



SL-43 In Concrete With Grout Mask and Trim ring

1. Prepare the site with adequate excavation to install fixtures¹. Drainage media below fixture will enhance installation^{2,3}.

2. Remove lens ring and lens with gasket,⁴ reflector assembly and "D" shaped splice box cover plate and gasket.

3. Connect conduit to the 3/4" NPT openings in the splice compartment at the bottom of the fixture, using the appropriate thread sealing compound. Tighten to 15 ft-lbs. max.

4. Position fixture so it is flush or just above the installation area grade⁵ and orient the fixture with regard to architectural requirements to obtain the appropriate accent.

5. Make power and ground connections using provided waterproof wire nuts. It is recommended that RTV Silicone or other re-enterable water sealing compound be used to seal the conduit entry points⁷.

6. Reinstall "D" shaped splice box cover plate and gasket ensuring that all four (4) screws are securely tightened.⁴ Reinstall reflector assembly, install lamp⁸ and make aiming adjustments.

7. Install lens ring and lens with gasket⁴ IMPORTANT! A CRISS CROSS PATTERN IS REQUIRED TO ENSURE THAT A GOOD COMPRESSION SEAL IS MADE. If this is not accomplished the fixture could leak and be damaged. Tighten socket head cap screws gradually using multiple tightening steps to 50 in/lbs.

INSTALLATION SHEET

Safety, Warnings and Suggestions

- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ³ **Make** sure that electrical power is disconnected before any work is performed.
- ⁴ **All** wiring and installation should meet local, state and national electrical codes.
- ⁵ **This** will ensure that the required airflow is maintained and the lens surface temperature is maintained.

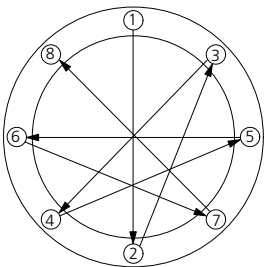
Maintenance

- ¹ **Make** sure that electrical power is disconnected before any work is performed on the fixture.
- ² **Install** correct lamp type and wattage when required.
- ³ **Check** that the inside of the housing is free of debris of any kind. Remove if found. This can obstruct the flow of air and increase the temperature on the lens surface.
- ⁴ **Check** that the gap between the lens ring and the casting that they fit in is clear of any obstruction. Clean if required. This can obstruct the flow of air and increase the temperature on the lens surface.

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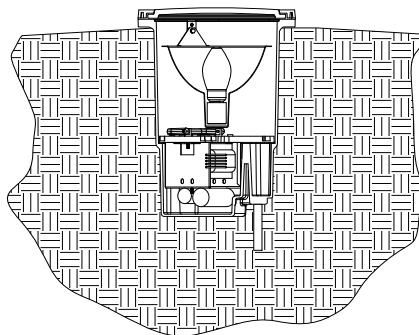


Use several rotations of the following sequence to tighten the lens ring socket head cap screws, to 50 in/lbs.

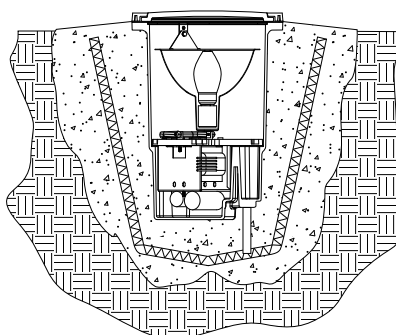
Mount Fixture as high above grade as possible to prevent debris and water standing on fixture surface.

Create an isolation barrier around the fixture to prevent rocks and foliage from interfering with light output.

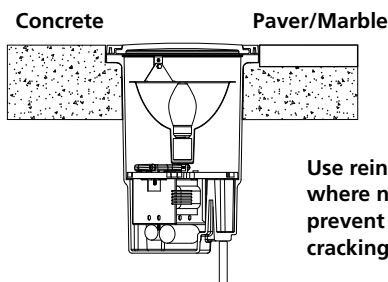
Add drainage media below and around fixture to prevent standing water.



SL-43 In Soil

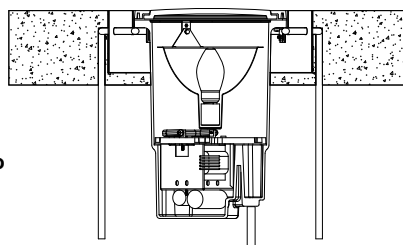


SL-43 In Soil With Concrete Base and Trim Ring



SL-43 In Concrete With Trim Ring

Use reinforcement where necessary to prevent concrete cracking.



SL-43 In Concrete With Grout Mask and Trim ring

1. Prepare the site with adequate excavation to install fixtures¹. Drainage media below fixture will enhance installation^{2,3}.

2. Remove lens ring and lens with gasket⁴, reflector assembly and "D" shaped splice box cover plate and gasket.

3. Connect conduit to the 3/4" NPT openings in the splice compartment at the bottom of the fixture, using the appropriate thread sealing compound. Tighten to 15 ft-lbs. max.

4. Position fixture so it is flush or just above the installation area grade⁵ and orient the fixture with regard to architectural requirements to obtain the appropriate accent.

5. Make power and ground connections using provided waterproof wire nuts. It is recommended that RTV Silicone or other re-enterable water sealing compound be used to seal the conduit entry points⁷.

6. Reinstall "D" shaped splice box cover plate and gasket ensuring that all four (4) screws are securely tightened⁴. Reinstall reflector assembly, install lamp⁸ and make aiming adjustments.

7. Install lens ring and lens with gasket⁴ IMPORTANT! A CRISS CROSS PATTERN IS REQUIRED TO ENSURE THAT A GOOD COMPRESSION SEAL IS MADE. If this is not accomplished the fixture could leak and be damaged. Tighten socket head cap screws gradually using multiple tightening steps to 50 in/lbs.

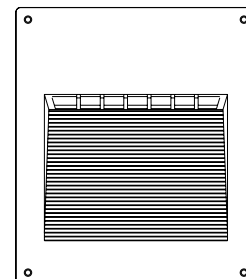
100 Craftway Drive
Littlestown, PA 17340
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www.allscape.net

INSTALLATION SHEET

SP

Safety, Warnings and Suggestions

- ¹ **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ² **Make** sure that electrical power is disconnected before any work is performed.
- ³ **All** wiring and installation should meet local, state and national electrical codes.

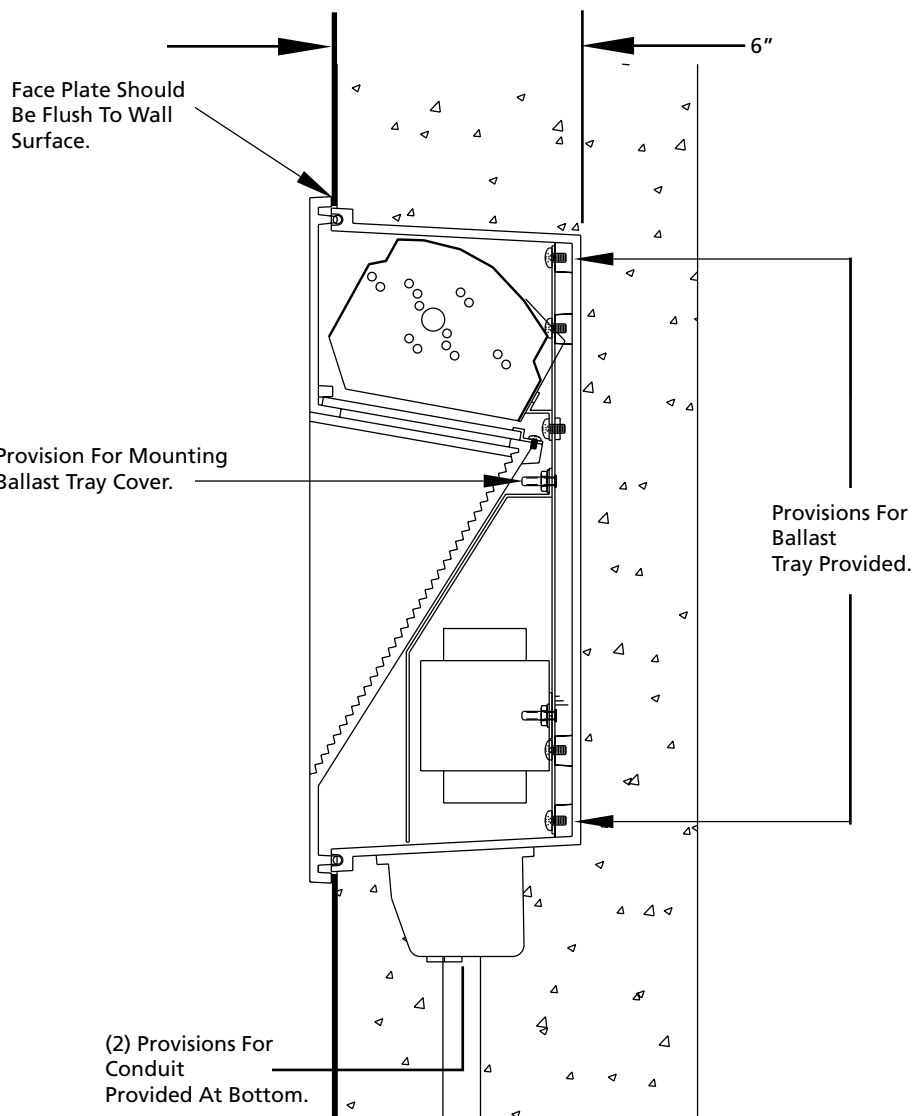


SP-10

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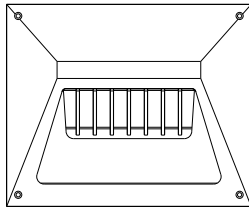


1. Remove face plate, internal reflector and internal ballast tray. Make sure all hardware is carefully saved until needed.
2. With back box by itself, connect conduit to the provisions on the bottom of the back box. See illustration for details.
3. Once the conduit has been connected, Secure back box to wall opening or any mounting provisions being used to hold box in place. Make sure that back box is flush to wall or to other mounting provision being used. See illustration for details.
4. After all preparations to wall have been finished, carefully clean out any dirt left inside of back box.
5. Install and secure ballast tray with hardware provided. Carefully make all necessary connection using UL listed connectors.
6. Install and secure ballast cover to ballast tray assembly with hardware provided. Make sure to install proper lamp source as designated on lamp label.
7. Install face plate onto back box by using screws provided. Adequately tighten all screws on faceplate to ensure a good seal all around gasket area. Once face plate has been tightened, Make sure it is flush to the mounting surface. See illustration for details.

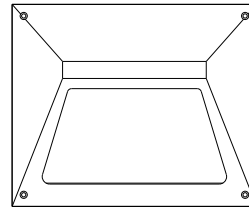
INSTALLATION SHEET

Safety, Warnings and Suggestions

- ¹ **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ² **Make** sure that electrical power is disconnected before any work is performed.
- ³ **All** wiring and installation should meet local, state and national electrical codes.



SP-30



SP-31

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Back Box Should Be Flush To Wall Surface.

Provisions For Mounting Reflector.

Provision For Mounting Ballast Tray.

(2) Provisions For Conduit Provided At Bottom.

Provision For Mounting Ballast Tray Cover.

(2-Way) Quick Disconnect.

6-1/2"

SP-30

1. Remove face plate, reflector and ballast tray. Make sure all hardware is carefully saved until needed.

2. With back box by itself, connect conduit to the provisions on the bottom of the back box. See illustration for details.

3. Once the conduit has been connected, Secure back box to wall opening or any mounting provisions being used to hold box in place. Make sure that back box is flush to wall or to any other mounting provisions being used. See illustration for details.

4. After all preparations to wall have been finished, carefully clean out any dirt left inside of back box.

5. Install and secure ballast tray with hardware provided. Carefully make all necessary connection using UL listed connectors.

6. Install and secure ballast cover or reflector (Depending on fixture) to ballast tray assembly with hardware provided. Refer to illustrations for details. Make sure to connect the 2-way connectors from the reflector assembly to the ballast assembly to insure proper functioning of the lamp. Install proper lamp source as designated on lamp label.

7. Install face plate onto back box by using screws provided. Safely tighten all screws on faceplate to ensure a good seal all around gasket area. Once face plate has been tightened, Make sure it is flush to mounting surface. See illustration for details.

Back Box Should Be Flush To Wall Surface.

Provision For Mounting Ballast Tray.

Provision For Mounting Ballast Tray Cover.

(2) Provisions For Conduit Provided At Bottom.

(2-Way) Quick Disconnect.

6-1/2"

Provisions For Mounting Reflector.

SP-31

INSTALLATION SHEET

Safety, Warnings and Suggestions

- ¹ **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ² **Make** sure that electrical power is disconnected before any work is performed.
- ³ **All** wiring and installation should meet local, state and national electrical codes.



SP-200



SP-201



SP-203



SP-204



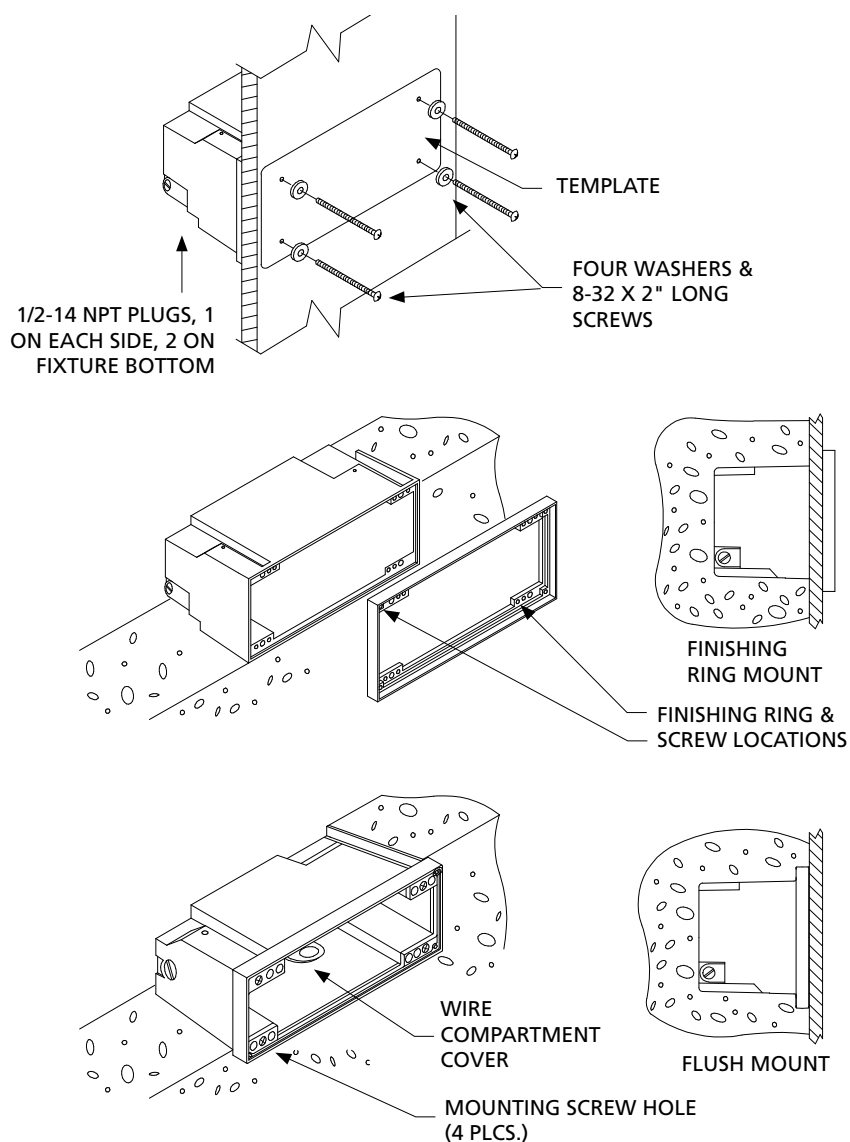
SP-206



SP-207

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Due to a program of continuous improvement, ALLSCAPE reserves the right to make any variation in design or construction to the equipment described.



1. Level supplied template on wood support frame and drill designated 3/16" diameter clearance holes.
2. Remove the 1/2" NPT plugs from the sides/bottom of the housing and pull the supply wire through into the housing.
3. Install the plastic protective shield (if supplied) into the housing and be sure all unused electrical plugs are replaced. Finishing ring may be removed now and replaced on housing after concrete pour.
4. Secure housing to wood support with screws supplied in hardware packet.
5. Pour concrete.
6. If finishing ring was removed, replace it and tighten flat head screws. If screws are not tight, fixture may leak.

INSTALLATION SHEET

Safety, Warnings and Suggestions

- ¹ **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ² **Make** sure that electrical power is disconnected before any work is performed.
- ³ **All** wiring and installation should meet local, state and national electrical codes.



SP-206

SP-207



SP-200



SP-201



SP-203

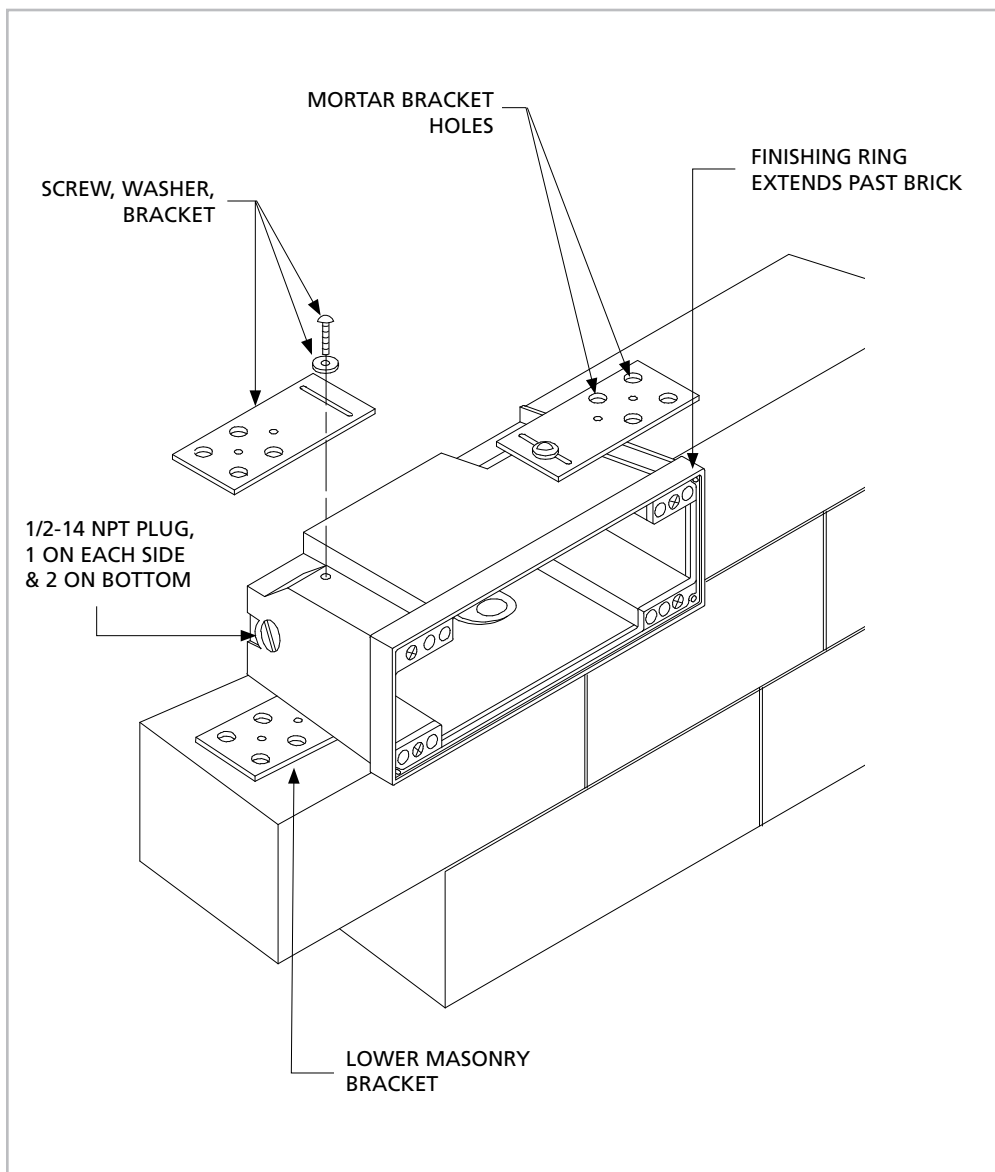


SP-204

P#32A52317

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Due to a program of continuous improvement, ALLSCAPE reserves the right to make any variation in design or construction to the equipment described.



1. Install two screws through washers and lower masonry brackets into tapped housing holes on bottom of fixture.

2. Remove the 1/2" NPT plugs from the side/bottom of the housing and pull the supply wire through and into the housing.

3. Press fixture and lower masonry brackets into layer of mortar so that the mortar penetrates through the holes of the masonry bracket.

4. After laying another course of blocks, install the two upper masonry brackets onto the housing as in step 1.

Safety, Warnings and Suggestions

¹ **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.

² **Make** sure that electrical power is disconnected before any work is performed.

³ **All** wiring and installation should meet local, state and national electrical codes.



SP-206



SP-207



SP-200



SP-201



SP-203

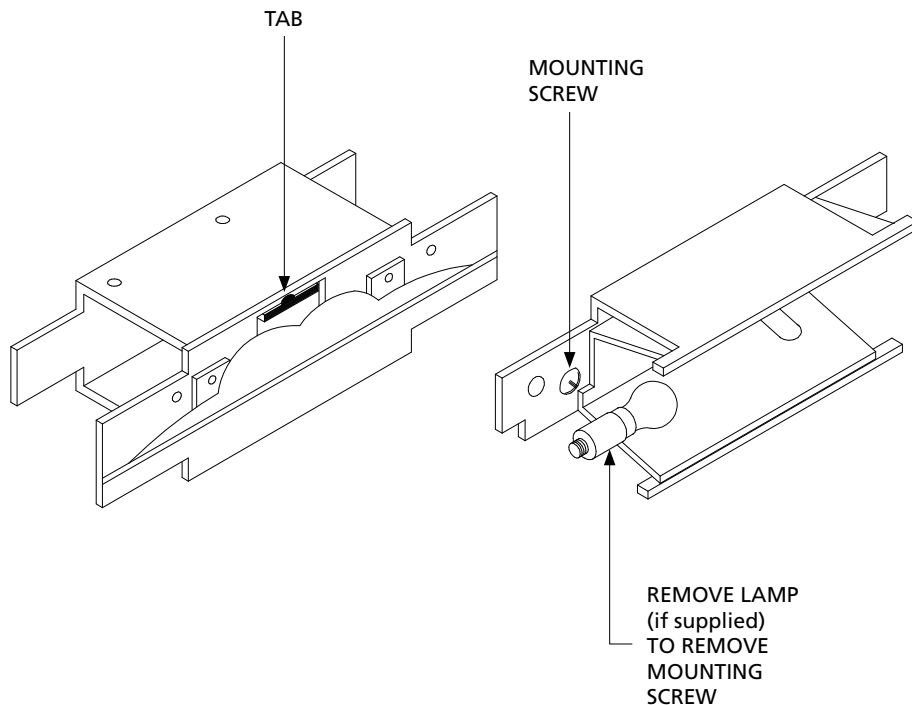


SP-204

P#32A52318

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Due to a program of continuous improvement, ALLSCAPE reserves the right to make any variation in design or construction to the equipment described.



1. Remove unit from carton. Remove lens, reflector assembly and electrical chassis. Remove screw or depress tab as required as shown in the illustration.

2. Install rough-in housing per NEC and local electrical codes. For internal or external, new or existing, plasterboard or wood installation, a thermal protector is required and insulation is to be a minimum of six inches from sides of housing. Install thermal protector by removing 1 inch snap-in plug and pushing protector into hole.

3. Thermal protection is not required for masonry or brick installations. Thermal protection is also not required for fluorescent lampings.

4. Re-assemble fixture.

Caution: Turn power on only when fixture is completely re-assembled. Always turn power off when re-lamping or servicing fixture.

INSTALLATION SHEET

Safety, Warnings and Suggestions

- ¹ **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ² **Make** sure that electrical power is disconnected before any work is performed.
- ³ **All** wiring and installation should meet local, state and national electrical codes.



SP-206

SP-207



SP-200



SP-201



SP-203

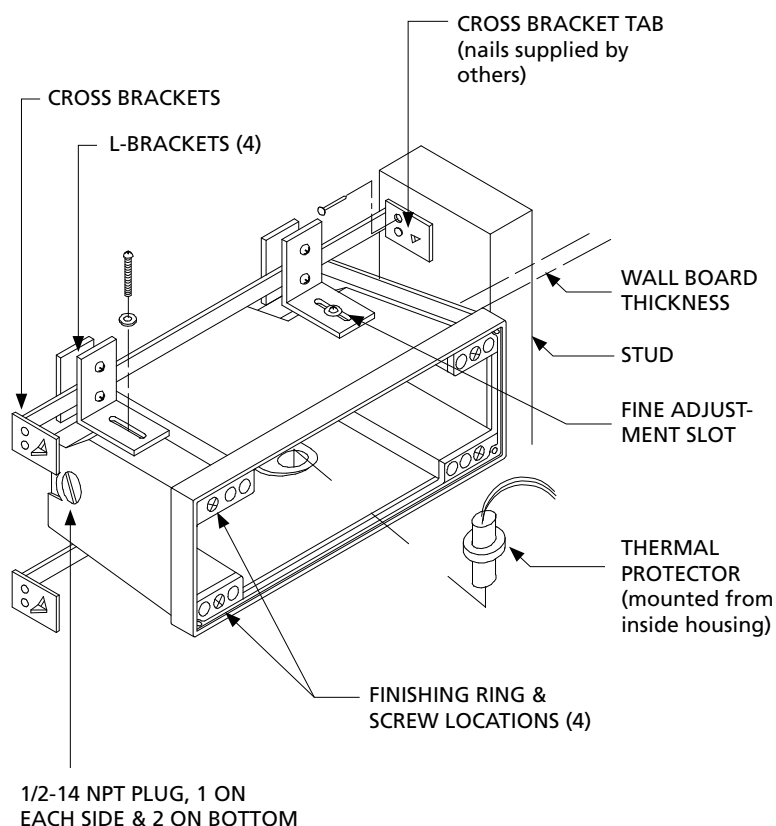


SP-204

P#32A52318

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Due to a program of continuous improvement, ALLSCAPE reserves the right to make any variation in design or construction to the equipment described.



1. Using the template supplied, cut a level hole through the wall board to fit around the fixture housing. Failure to level hole will cause the fixture to have a tilted appearance.

2. Mount L-brackets onto housing 4 places with screw positioned in center of slot and insert cross brackets through the L-brackets on top and bottom of housing.

3. Position fixture so that the back of the finishing ring extends past the studs the thickness of the wallboard.

4. Level fixture and hammer tabs on cross brackets into studs, then nail brackets securely to studs.

5. Fine adjust fixture position and tighten all loose screws.

6. Remove the 1/2" NPT plugs from the side/bottom of the housing and pull supply wire through the housing.

7. Remove finishing ring by removing four flat head screws. Install wall board.

8. Replace finishing ring.

9. Install thermal protector (attached to electrical chassis.)

INSTALLATION SHEET

Safety, Warnings and Suggestions

- ¹ **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ² **Make** sure that electrical power is disconnected before any work is performed.
- ³ **All** wiring and installation should meet local, state and national electrical codes.



SP-200



SP-201



SP-203



SP-204



SP-206

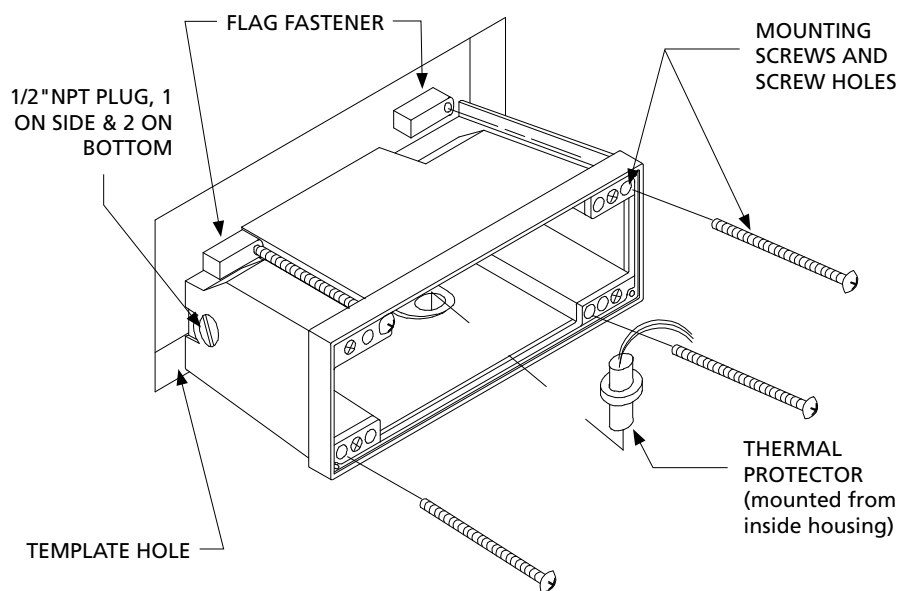


SP-207

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1. Using the template supplied, cut a level hole through the existing wall between existing studs. Failure to level hole will cause the fixture to have a tilted appearance.

2. Push the four mounting screws through the housing holes and into rear channels. (note: thin membrane covers the housing holes and may require forcing the screws through to penetrate the membrane).

3. Place flags flat on rear of housing and thread screws into flags until the screws are completely through the flags.

4. Remove the 1/2" NPT plugs from the side/bottom of the housing and pull the supply wire through into the housing.

5. Push housing into the hole in the wall and tighten the four mounting screws until the flag fasteners have drawn tightly against the rear surface of the wall.

6. Install thermal protector (attached to electrical chassis.)

INSTALLATION SHEET

Safety, Warnings and Suggestions

- ¹ **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ² **Make** sure that electrical power is disconnected before any work is performed.
- ³ **All** wiring and installation should meet local, state and national electrical codes.

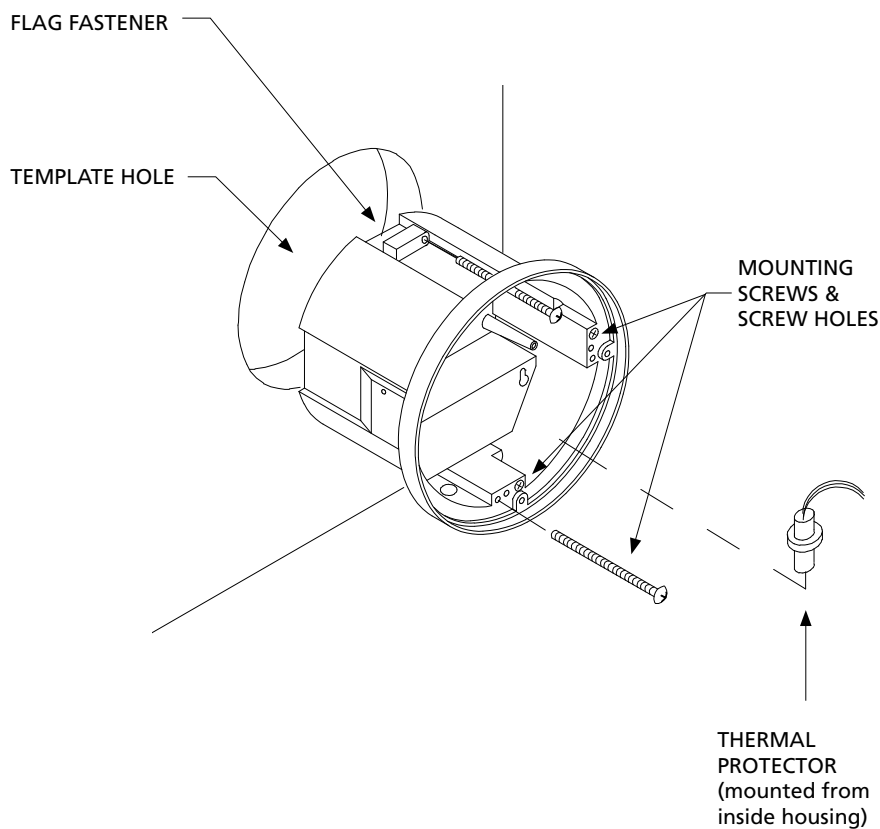


SP-210

P#32A52350

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1. Using the template, cut a level hole through the existing wall between existing studs. Failure to level hole will cause the fixture to have a tilted appearance.

2. Push the two mounting screws through the housing holes and into channels as shown. (note: thin membrane covers the housing holes and may require forcing the screws through to penetrate membrane.)

3. Place flags flat on rear of housing and thread screws into flags until the screws are completely through the flags.

4. Remove the 1/2" NPT plugs from the sides/bottom of the housing and pull the supply wire through into the housing.

5. Push housing into hole in the wall and tighten the mounting screws until the flag fasteners have drawn tightly against the rear surface of the wall.

6. Install thermal protector (attached to electrical chassis).

note: factory recommends using two kits when installing larger step light in drywall.

INSTALLATION SHEET

Safety, Warnings and Suggestions

- ¹ **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ² **Make** sure that electrical power is disconnected before any work is performed.
- ³ **All** wiring and installation should meet local, state and national electrical codes.

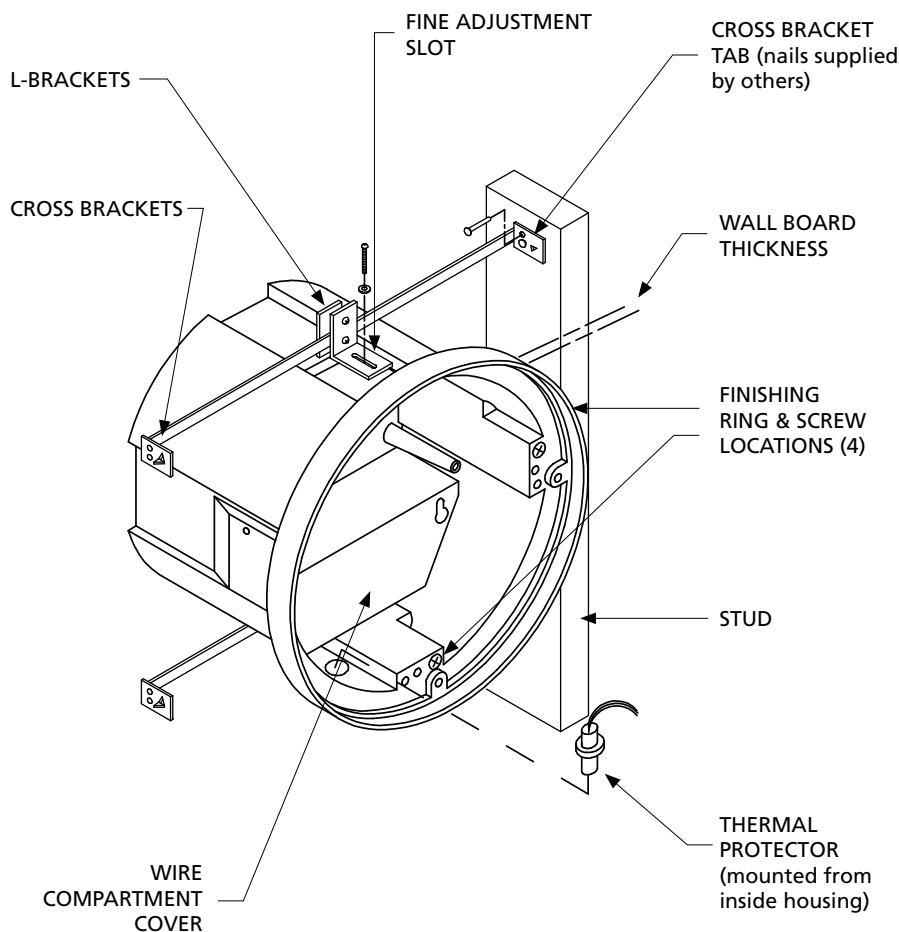


SP-210

P#32A52353

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Due to a program of continuous improvement, ALLSCAPE reserves the right to make any variation in design or construction to the equipment described.



1. Using template, cut a level hole through the wall board to fit around the fixture housing.

2. Mount L-brackets onto top and bottom of housing with screws positioned in center of slots and insert cross brackets through L-brackets.

3. Position the fixture so that the back of the finishing ring extends past the studs by the thickness of the wall board.

4. Level fixture and hammer tabs on cross brackets into studs, then nail brackets securely to studs.

5. Fine adjust fixture position and tighten any loose screws.

6. Remove the 1/2" NPT plugs from the sides/bottom of the housing and pull the supply wire through the housing.

7. Remove finishing ring by removing flat head phillips screws. Install wall board.

8. Replace finishing ring.

9. Install thermal protector, (attached to electrical housing) screw and push wiring compartment into housing.

INSTALLATION SHEET

Safety, Warnings and Suggestions

- ¹ **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ² **Make** sure that electrical power is disconnected before any work is performed.
- ³ **All** wiring and installation should meet local, state and national electrical codes.

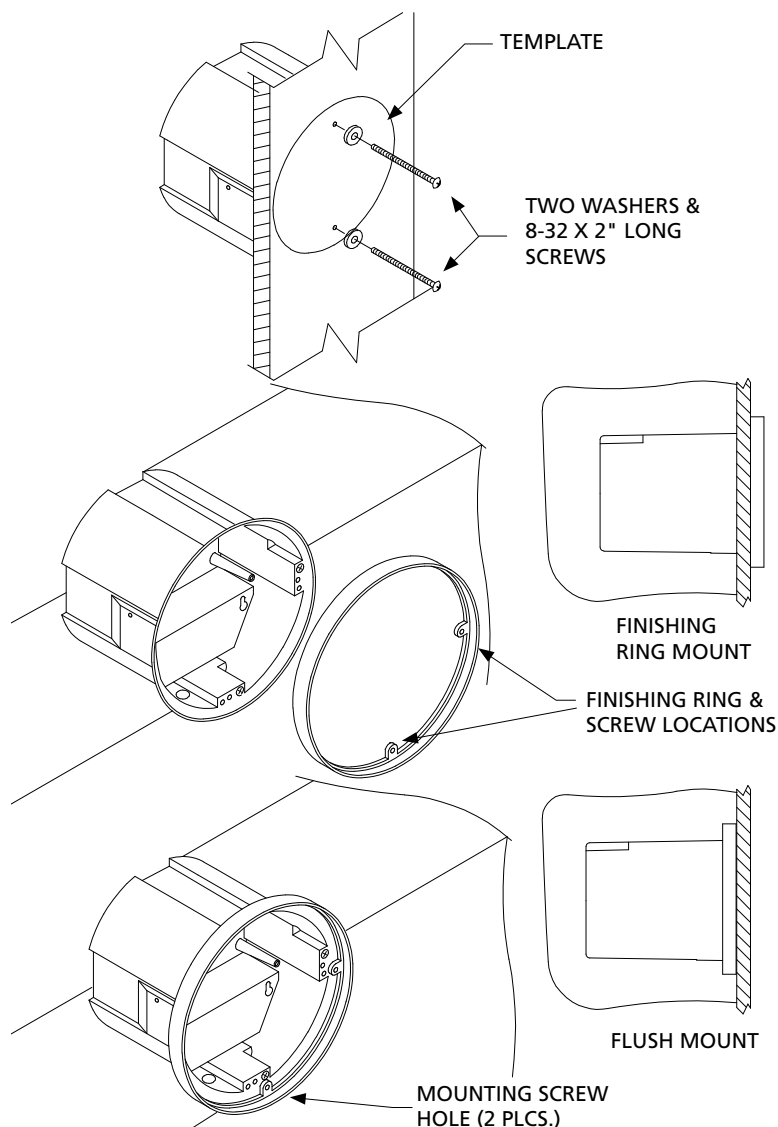


SP-210

P#32A52348

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Due to a program of continuous improvement, ALLSCAPE reserves the right to make any variation in design or construction to the equipment described.



1. Level supplied template on wood support frame and drill designated 3/16" diameter clearance holes.

2. Remove the 1/2" NPT plugs from the sides/bottom of the housing and pull the supply wire through into the housing.

3. Install the plastic protective shield (if supplied) into the housing and be sure all unused electrical plugs are replaced. Finishing ring may be removed now and replaced on housing after concrete pour.

4. Secure housing to wood support with screws supplied in hardware packet.

5. Pour concrete.

6. If finishing ring was removed, replace it and tighten flat head screws. If screws are not tight, fixture may leak.

INSTALLATION SHEET

Safety, Warnings and Suggestions

- ¹ **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ² **Make** sure that electrical power is disconnected before any work is performed.
- ³ **All** wiring and installation should meet local, state and national electrical codes.

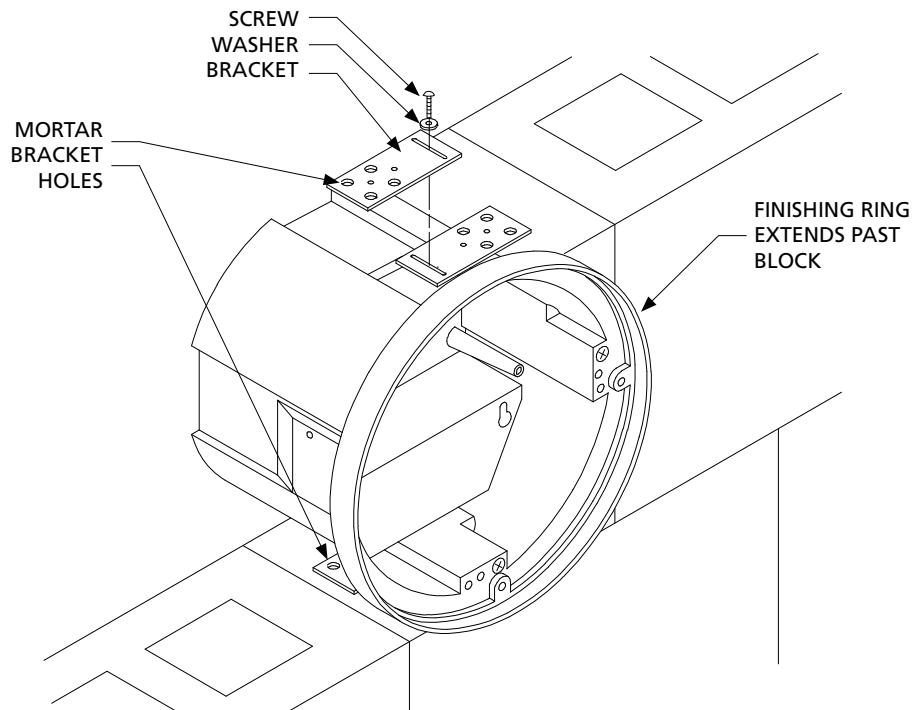


SP-210

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1. Install screw through washer, lower masonry brackets, and into the tapped housing hole on bottom of fixture.
2. Remove the 1/2" NPT plugs from the sides/bottom of housing and pull the supply wire through into the housing. (Through wiring is not recommended for mini round step lights).
3. Press fixture and lower masonry brackets into layer of mortar so that the mortar comes through the holes of the masonry brackets.
4. After laying another course of blocks, install the two upper masonry brackets onto the housing as in step 1.

Safety, Warnings and Suggestions

- ¹ **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ² **Make** sure that electrical power is disconnected before any work is performed.
- ³ **All** wiring and installation should meet local, state and national electrical codes.



SP-220



SP-214



SP-215



SP-216

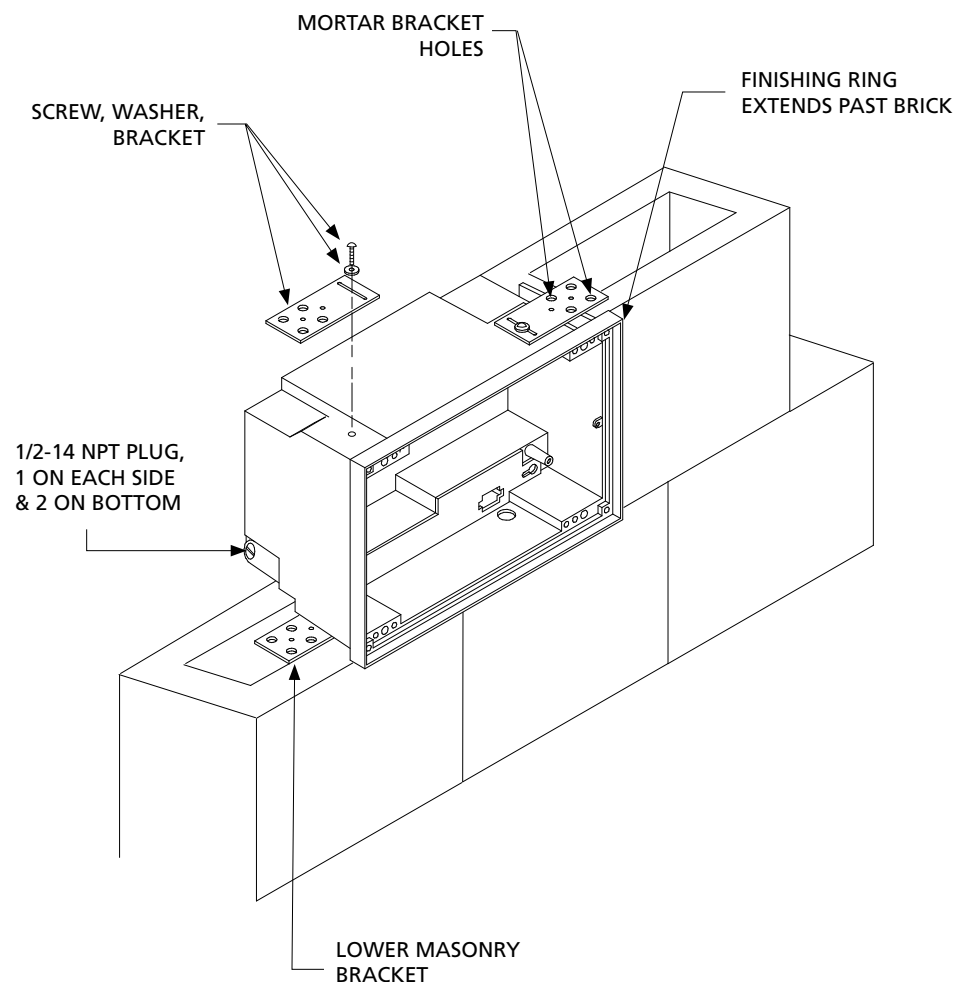


SP-217

P#32A52389

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Due to a program of continuous improvement, ALLSCAPE reserves the right to make any variation in design or construction to the equipment described.



1. Install two screws through washers and lower masonry brackets into tapped housing holes on bottom of fixture.

2. Remove the 1/2" NPT plugs from the side/bottom of the housing and pull the supply wire through and into the housing.

3. Press fixture and lower masonry brackets into layer of mortar so that the mortar penetrates through the holes of the masonry bracket.

4. After laying another course of blocks, install the two upper masonry brackets onto the housing as in step 1.

Safety, Warnings and Suggestions

- ¹ **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ² **Make** sure that electrical power is disconnected before any work is performed.
- ³ **All** wiring and installation should meet local, state and national electrical codes.



SP-220



SP-214



SP-215



SP-216

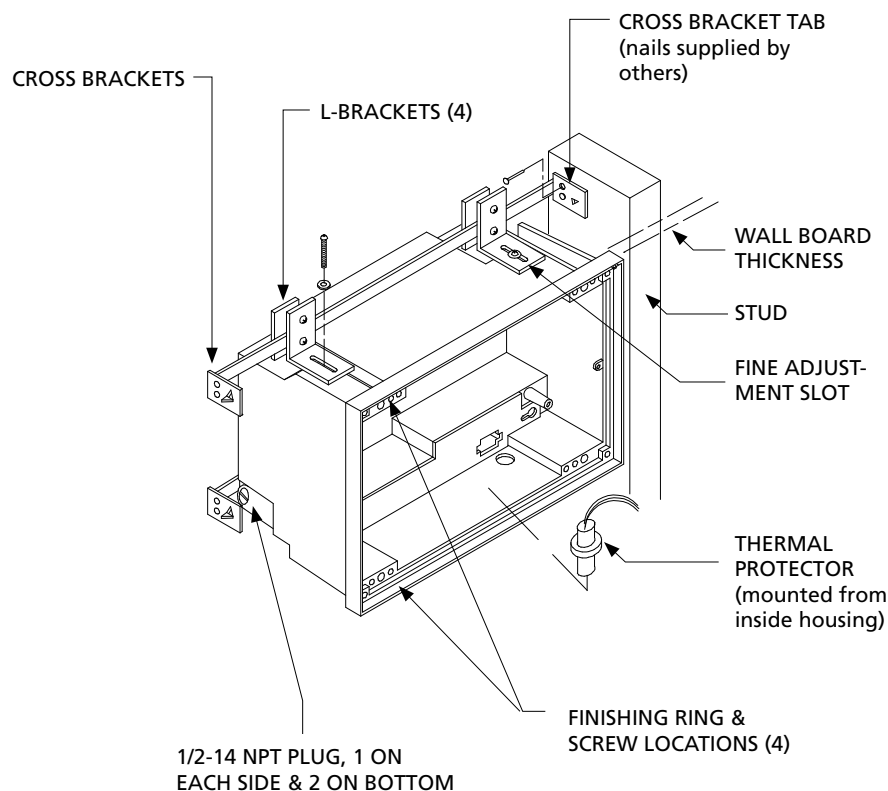


SP-217

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Due to a program of continuous improvement, ALLSCAPE reserves the right to make any variation in design or construction to the equipment described.



1. Using the template supplied, cut a level hole through the wall board to fit around the fixture housing. Failure to level hole will cause the fixture to have a tilted appearance.
2. Mount L-brackets onto housing 4 places with screw positioned in center of slot and insert cross brackets through the L-brackets on top and bottom of housing.
3. Position fixture so that the back of the finishing ring extends past the studs the thickness of the wallboard.
4. Level fixture and hammer tabs on cross brackets into studs, then nail brackets securely to studs.
5. Fine adjust fixture position and tighten all loose screws.
6. Remove the 1/2" NPT plugs from the side/bottom of the housing and pull supply wire through the housing.
7. Remove finishing ring by removing four flat head screws. Install wall board.
8. Replace finishing ring.
9. Install thermal protector (attached to electrical chassis.)

Safety, Warnings and Suggestions

- ¹ **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ² **Make** sure that electrical power is disconnected before any work is performed.
- ³ **All** wiring and installation should meet local, state and national electrical codes.



SP-220



SP-214



SP-215



SP-216

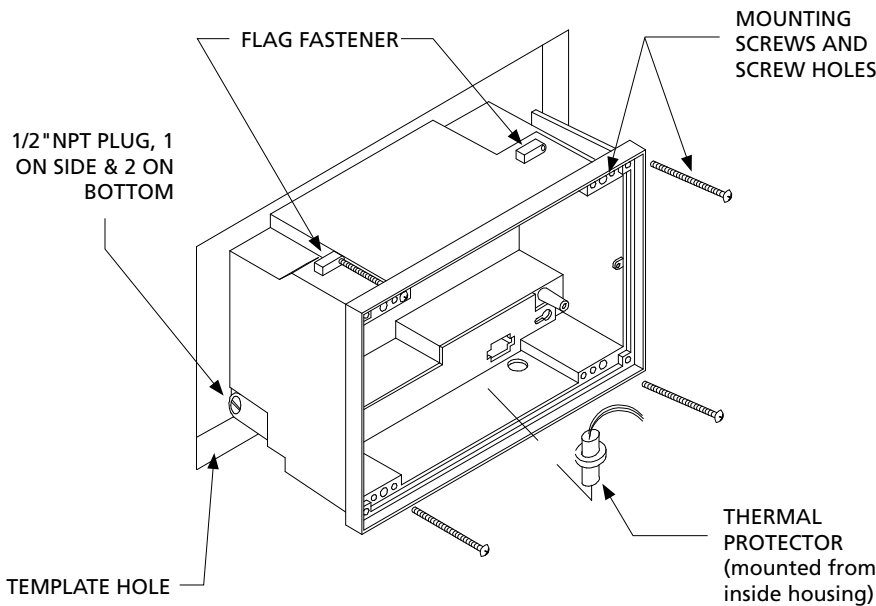


SP-217

P#32A52391

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1. Using the template supplied, cut a level hole through the existing wall between existing studs. Failure to level hole will cause the fixture to have a tilted appearance.

2. Push the four mounting screws through the housing holes and into rear channels. (note: thin membrane covers the housing holes and may require forcing the screws through to penetrate the membrane).

3. Place flags flat on rear of housing and thread screws into flags until the screws are completely through the flags.

4. Remove the 1/2" NPT plugs from the side/bottom of the housing and pull the supply wire through into the housing.

5. Push housing into the hole in the wall and tighten the four mounting screws until the flag fasteners have drawn tightly against the rear surface of the wall.

6. Install thermal protector (attached to electrical chassis.)

Safety, Warnings and Suggestions

- ¹ **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ² **Make** sure that electrical power is disconnected before any work is performed.
- ³ **All** wiring and installation should meet local, state and national electrical codes.



SP-220



SP-214



SP-215



SP-216

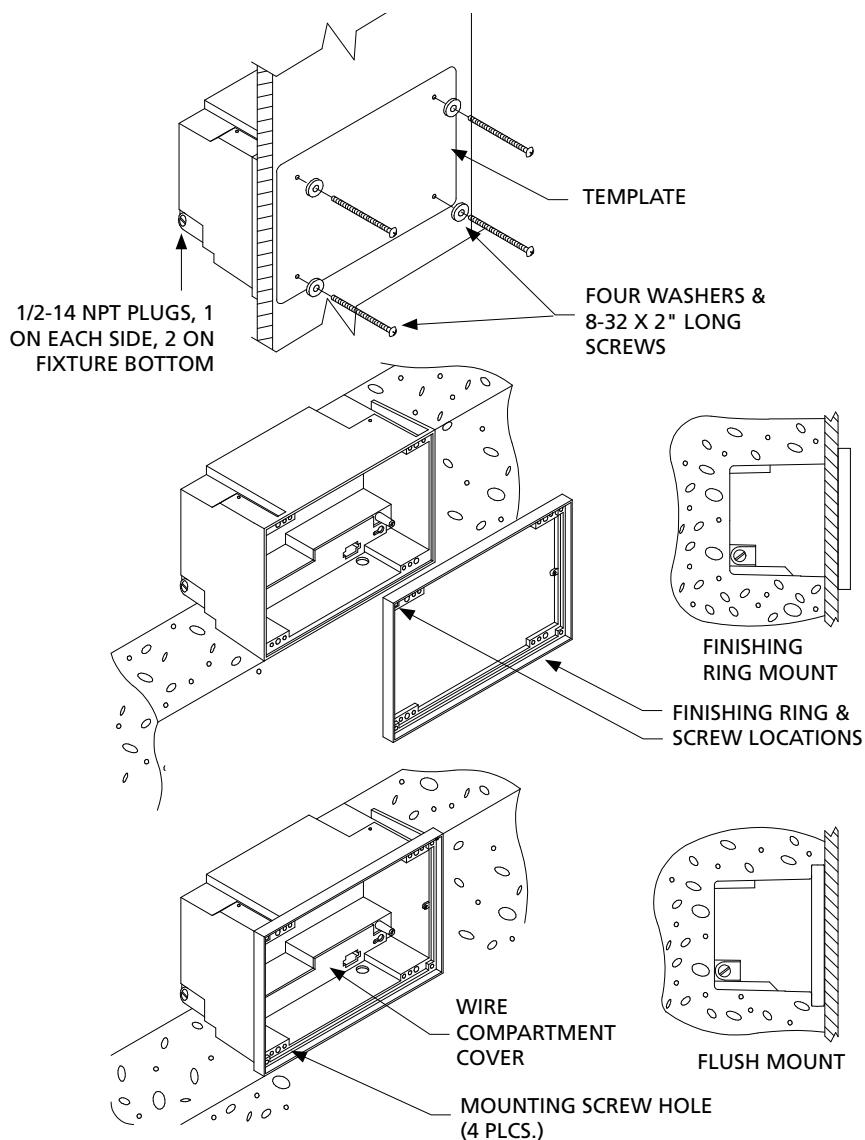


SP-217

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1. Level supplied template on wood support frame and drill four 3/16" diameter clearance holes.

2. Remove the 1/2" NPT plugs from the sides/bottom of the housing and pull the supply wire through into the housing.

3. Install the plastic protective shield (if supplied) into the housing and be sure all unused electrical plugs are replaced. Finishing ring may be removed now and replaced on housing after concrete pour.

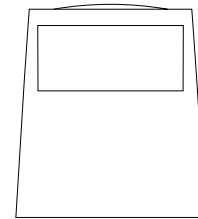
4. Secure housing to wood support with screws supplied in hardware packet.

5. Pour concrete.

6. If finishing ring was removed, replace it and tighten flat head screws. If screws are not tight, fixture may leak.

Safety, Warnings and Suggestions

- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ³ **Make** sure that electrical power is disconnected before any work is performed.
- ⁴ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁵ **All** wiring and installation should meet local, state and national electrical codes.
- ⁶ **Install** correct lamp type and wattage.

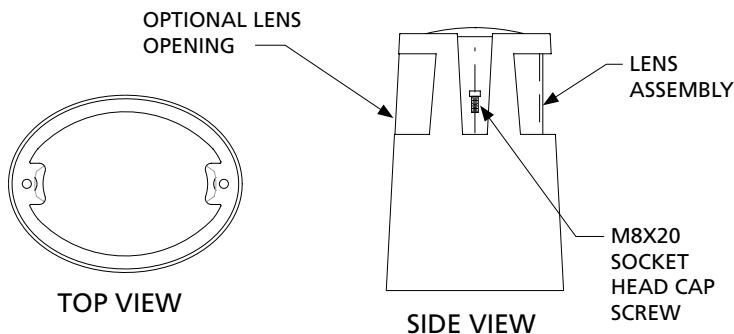


LL-60

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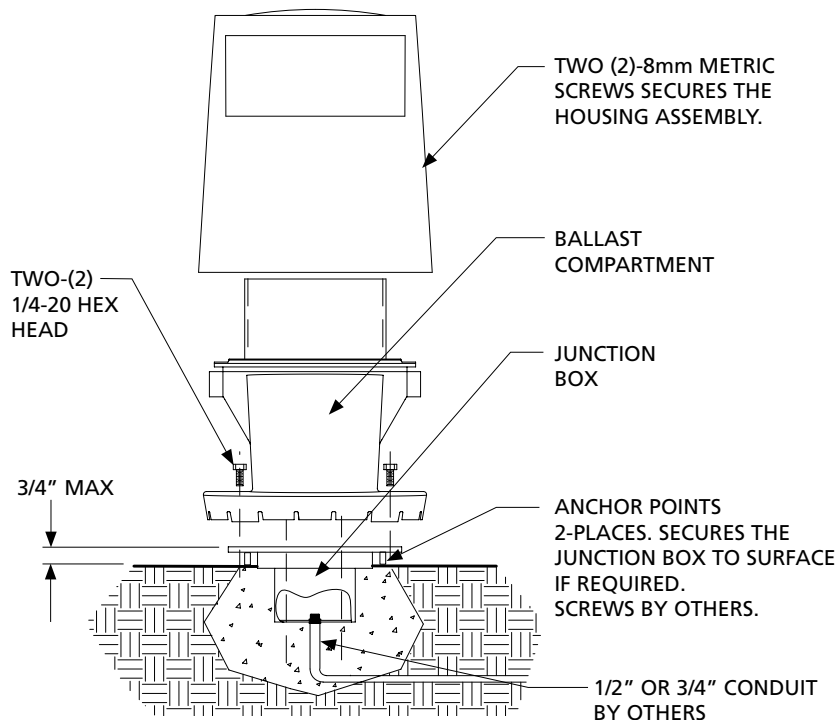
1. Prepare the site with adequate excavation and install the anchor bolts as per factory supplied template .

2. Remove the fixture from box and unscrew two 8mm socket head cap screws using a 6mm Allen key and remove the housing. Remove the junction box by removing two 1/4-20 hex head bolts. Install the junction box to anchor bolts or conduit and level.

3. Take the ballast compartment and make power and ground connection using UL approved connectors, and contractor supply waterproof junction box. Secure it to the junction box with the (2)-1/4-20 hex bolts.

4. Install the correct lamp type and wattage. **MAKE SURE THAT THE CYLINDER GLASS LENS IS PROPERLY SEATED WITH THE GASKET IN PLACE.**

5. Reinstall the housing cover with the (2)-8mm socket head cap screws.

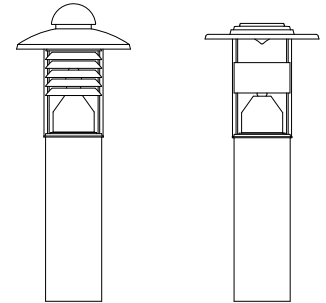


Mounting In Soil With Concrete Base

INSTALLATION SHEET

Safety, Warnings and Suggestions

- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ³ **Make** sure that electrical power is disconnected before any work is performed.
- ⁴ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁵ **All** wiring and installation should meet local, state and national electrical codes.
- ⁶ **Install** correct lamp type and wattage.



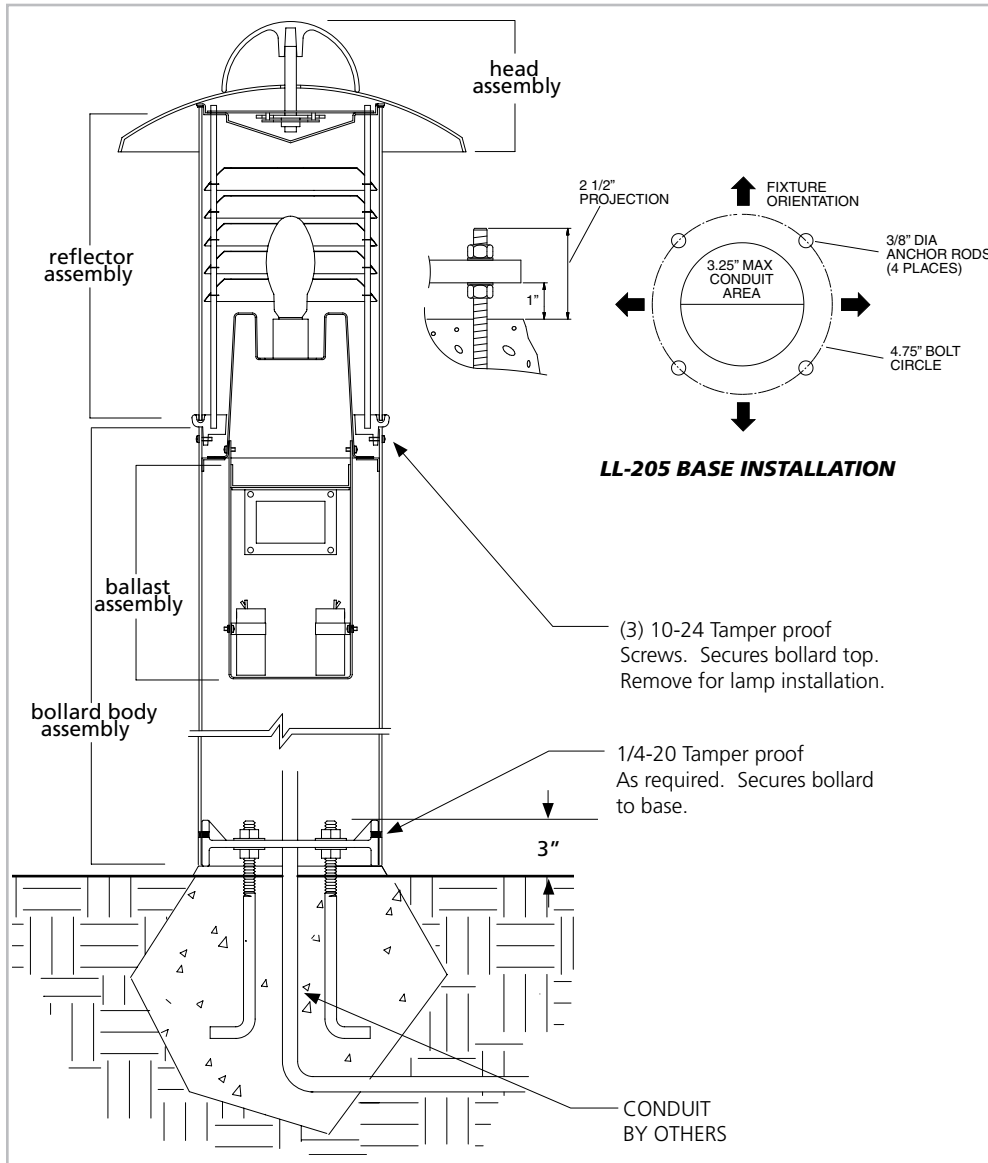
LL-205-CLR-RD

LL-205-CLB-FL

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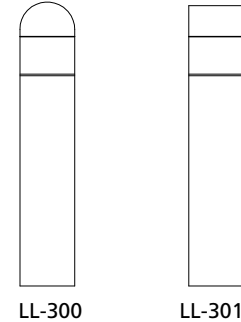


1. Prepare the site with adequate excavation and install the anchor bolts as per factory supplied template.
 2. Remove the bollard from base by removing (securing screws). Install the base to anchor bolts and level.
 3. Remove the reflector assembly and the lens from the fixture housing by loosening the (3) side mount 10-24 socket cap truss head security screws.
 4. Make power and ground connection using UL approved connectors. At this time install the lamp.
 5. Take the bollard body assembly and install over the cast base and secure the body with the 1/4-20 tamper proof screws.
 6. Replace the lens and the reflector assembly and secure with the (3) 10-24 security screws.
- NOTE: MAKE SURE BEFORE INSTALLING THE LENS, THAT THE GASKET IS PROPERLY SEATED.**
7. Place separately packed shade over all-thread and screw down top casting until hand tight.

INSTALLATION SHEET

Safety, Warnings and Suggestions

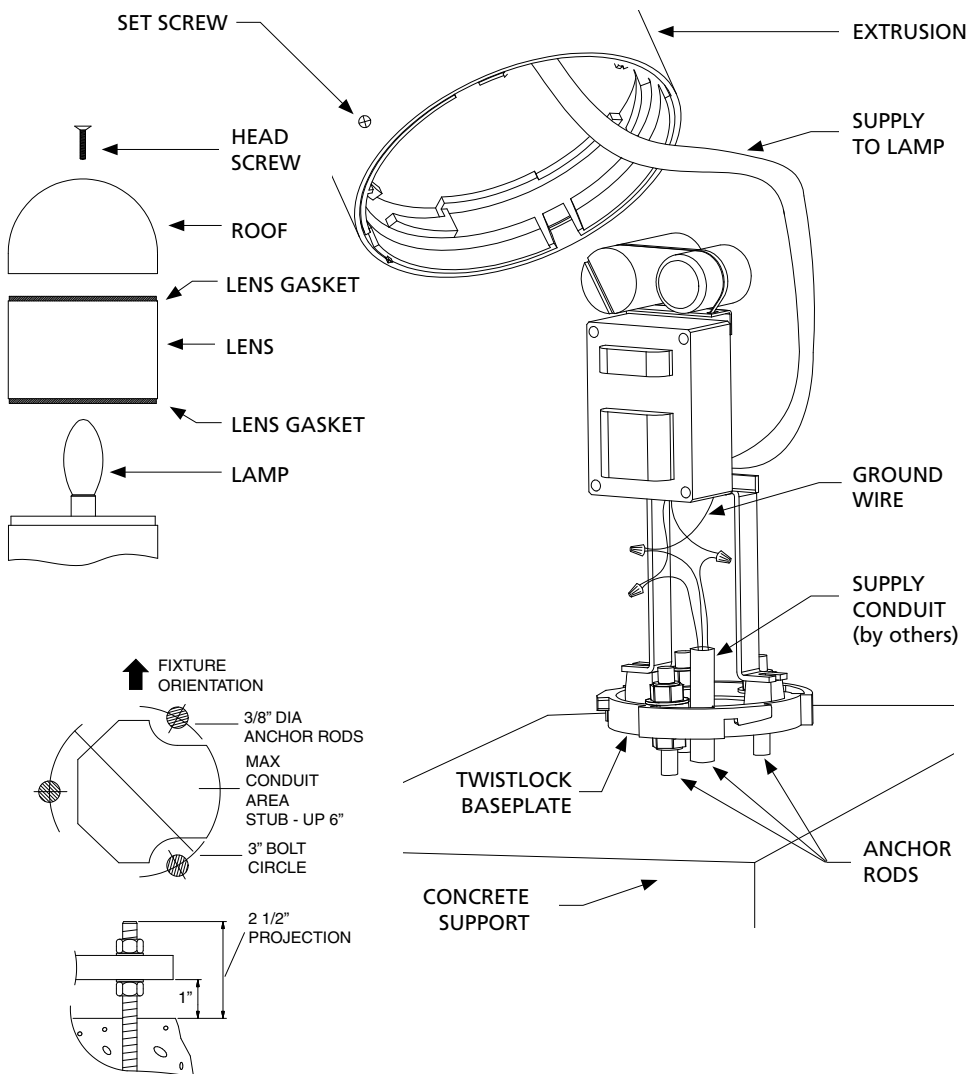
- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ³ **Make** sure that electrical power is disconnected before any work is performed.
- ⁴ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁵ **All** wiring and installation should meet local, state and national electrical codes.
- ⁶ **Install** correct lamp type and wattage.



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1. Install the anchor rods into a concrete footing as indicated on the supplied template. Install and level the twistlock baseplate with ballast assembly as shown on the template.

2. Connect the supply lines from the supply conduit to the fixture's inputs. Tie the wires so they do not lie on the ground.

3. Set the fixture onto the twistlock baseplate using the "Align Screw" mark shown on the baseplate to orient the fixture. Be sure not to crimp any wires in the twistlock.

4. Turn the fixture clockwise about 1/8 turn until hand tight. Tighten the set screw to lock it in place.

5. Install a lamp per the relamping instructions below and test the fixture for proper operation.

Relamping

Make sure power is off before relamping. Remove the head screw from the top of the roof and lift the roof off of the fixture. Replace the lamp or install a new one per the label on the fixture. Replace the roof, checking to ensure the lens gasket is properly seated. Tighten the head screw.

LL-300/301 BASE INSTALLATION

INSTALLATION SHEET

Safety, Warnings and Suggestions

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- ³ **Make** sure that electrical power is disconnected before any work is performed.
- ⁴ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁵ **All** wiring and installation should meet local, state and national electrical codes.
- ⁶ **Install** correct lamp type and wattage.



LL-310

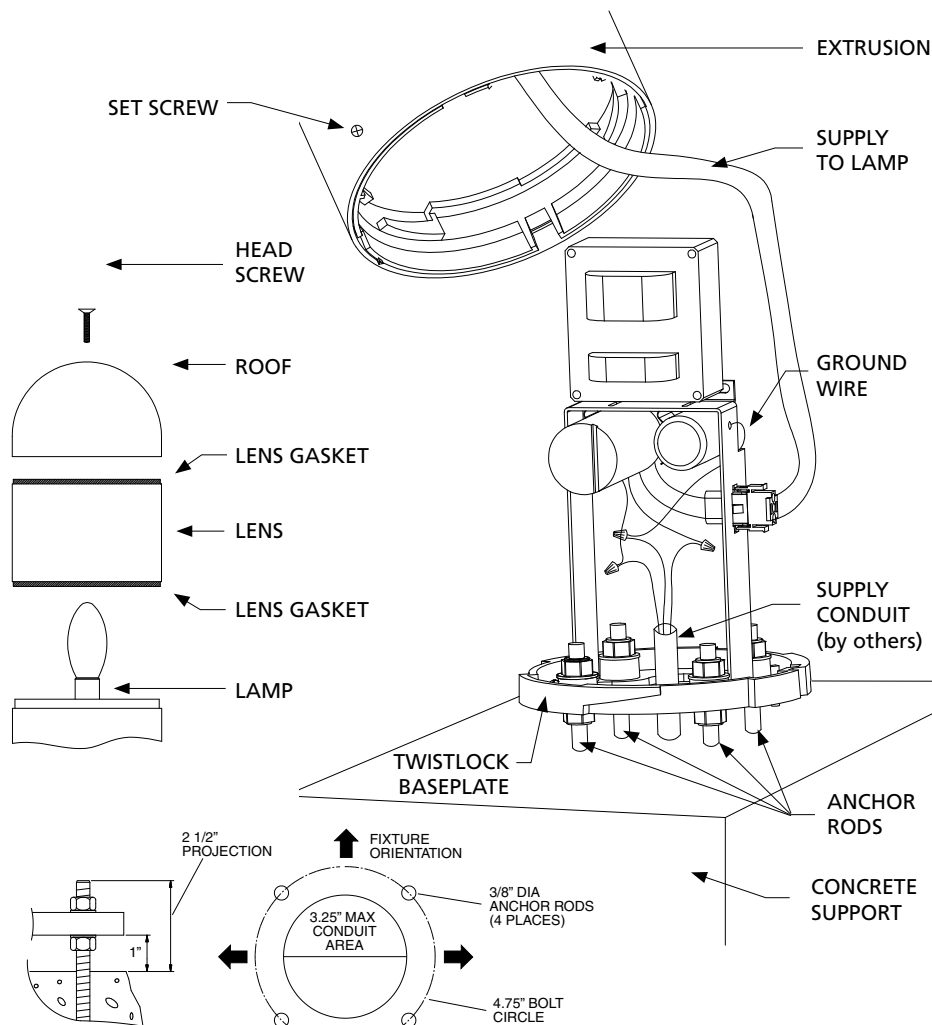


LL-311

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LL-310/311 BASE INSTALLATION

1. Install the anchor rods into a concrete footing as indicated on the supplied template. Install and level the twistlock baseplate with ballast assembly as shown on the template.

2. Connect the supply lines from the supply conduit to the fixture's inputs. Tie the wires so they do not lie on the ground.

3. Set the fixture onto the twistlock baseplate using the "Align Screw" mark shown on the baseplate to orient the fixture. Be sure not to crimp any wires in the twistlock.

4. Turn the fixture clockwise about 1/8 turn until hand tight. Tighten the set screw to lock it in place.

5. Install a lamp per the relamping instructions below and test the fixture for proper operation.

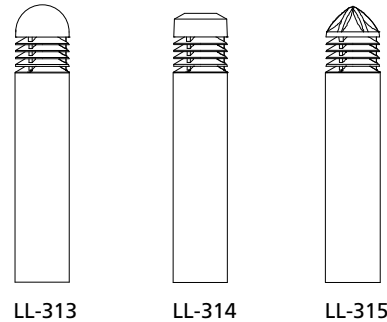
Relamping

Make sure power is off before relamping. Remove the head screw from the top of the roof and lift the roof off of the fixture. Replace the lamp or install a new one per the label on the fixture. Replace the roof, checking to ensure the lens gasket is properly seated. Tighten the head screw.

INSTALLATION SHEET

Safety, Warnings and Suggestions

- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ³ **Make** sure that electrical power is disconnected before any work is performed.
- ⁴ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁵ **All** wiring and installation should meet local, state and national electrical codes.
- ⁶ **Install** correct lamp type and wattage.



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Due to a program of continuous improvement, ALLSCAPE reserves the right to make any variation in design or construction to the equipment described.

1. Install the anchor rods into a concrete footing as indicated on the supplied template. Install and level the twistlock baseplate with ballast assembly as shown on the template.

2. Connect the supply lines from the supply conduit to the fixture's inputs. Tie the wires so they do not lie on the ground. Connect the lamp quick-connect to the receptacle on the ballast bracket.

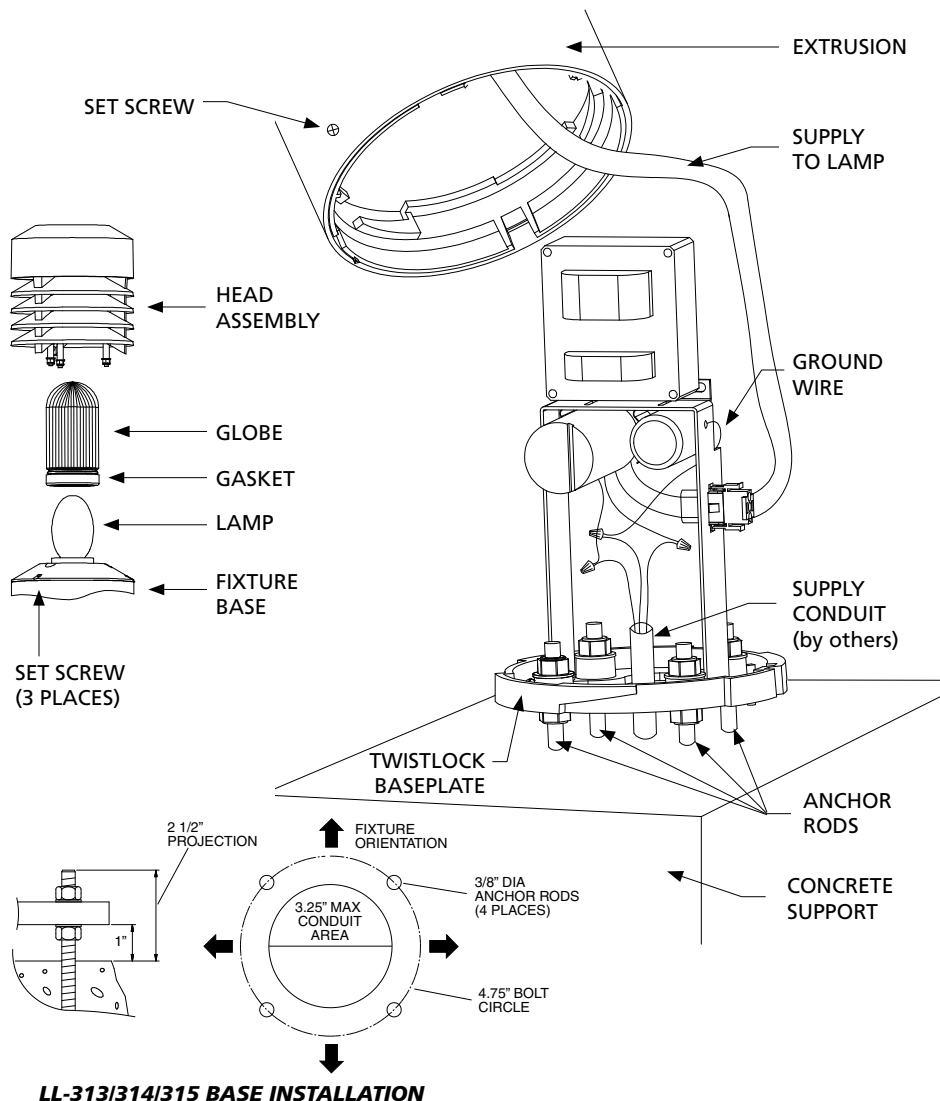
3. Set the fixture onto the twistlock baseplate using the "Align Screw" mark shown on the baseplate to orient the fixture. Be sure not to crimp any wires in the twistlock.

4. Turn the fixture clockwise about 1/8 turn until hand tight. Tighten the set screw to lock it in place.

5. Install a lamp per the relamping instructions below and test the fixture for proper operation.

Relamping

Make sure power is off before relamping. Loosen the three set screws on the bottom louver by about 1/2" each. Lift the head of the fixture off, holding it by the louvers, not the roof. Lift the globe straight off. Make sure the gasket stays tightly on the globe. Replace the lamp or install a new one per the lamp style on the lamp label. Note that if house side shield is needed it should be inserted at this time. Replace the globe, positioning the house side shield (if used) in desired direction. Set the head onto the fixture. Hold the head down and tighten (3) set screws.



LL-313/314/315 BASE INSTALLATION

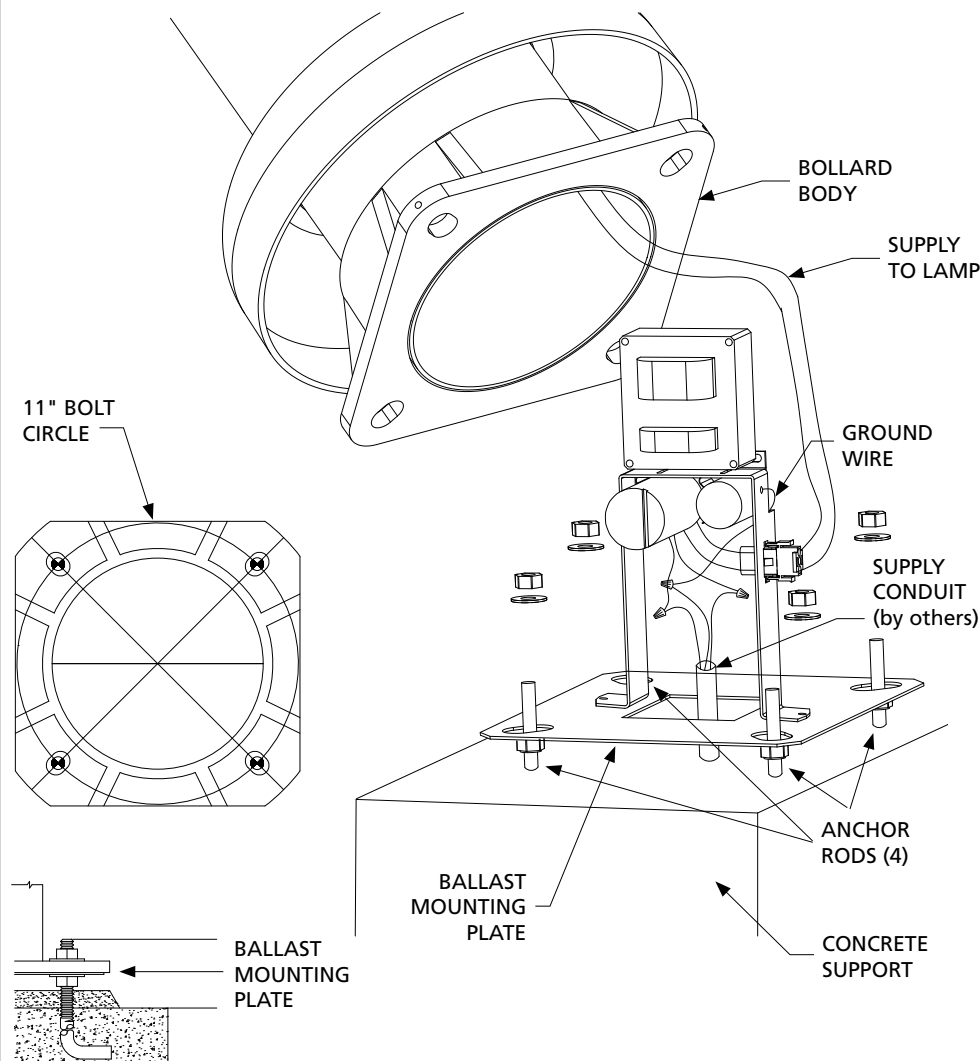
Safety, Warnings and Suggestions

- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ³ **Make** sure that electrical power is disconnected before any work is performed.
- ⁴ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁵ **All** wiring and installation should meet local, state and national electrical codes.
- ⁶ **Install** correct lamp type and wattage.

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1. Install the anchor rods into a concrete footing as indicated on the supplied template. Install and level the ballast mounting plate with ballast assembly as shown on the template.

2. Connect the supply lines from the supply conduit to the fixture's inputs. Tie the wires so they do not lie on the ground connect quick connect from socket to receptacle on ballast assembly.

3. Set the fixture onto the ballast mounting plate/anchor bolts. Install the flat washers and nuts snug. Check straightness of bollard tube with a level and adjust nuts accordingly. Tighten nuts securely. Be sure not to pinch any wires.

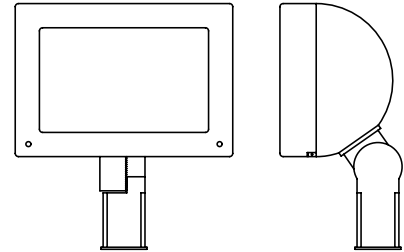
4. Install base cover and secure with (4) 10-24 x 1/2" stainless steel screws.

5. Install lamp per standard bollard instruction sheet and test for proper operation.

INSTALLATION SHEET

Safety, Warnings and Suggestions

- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
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- ³ **Make** sure that electrical power is disconnected before any work is performed.
- ⁴ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁵ **All** wiring and installation should meet local, state and national electrical codes.
- ⁶ **Install** correct lamp type and wattage.



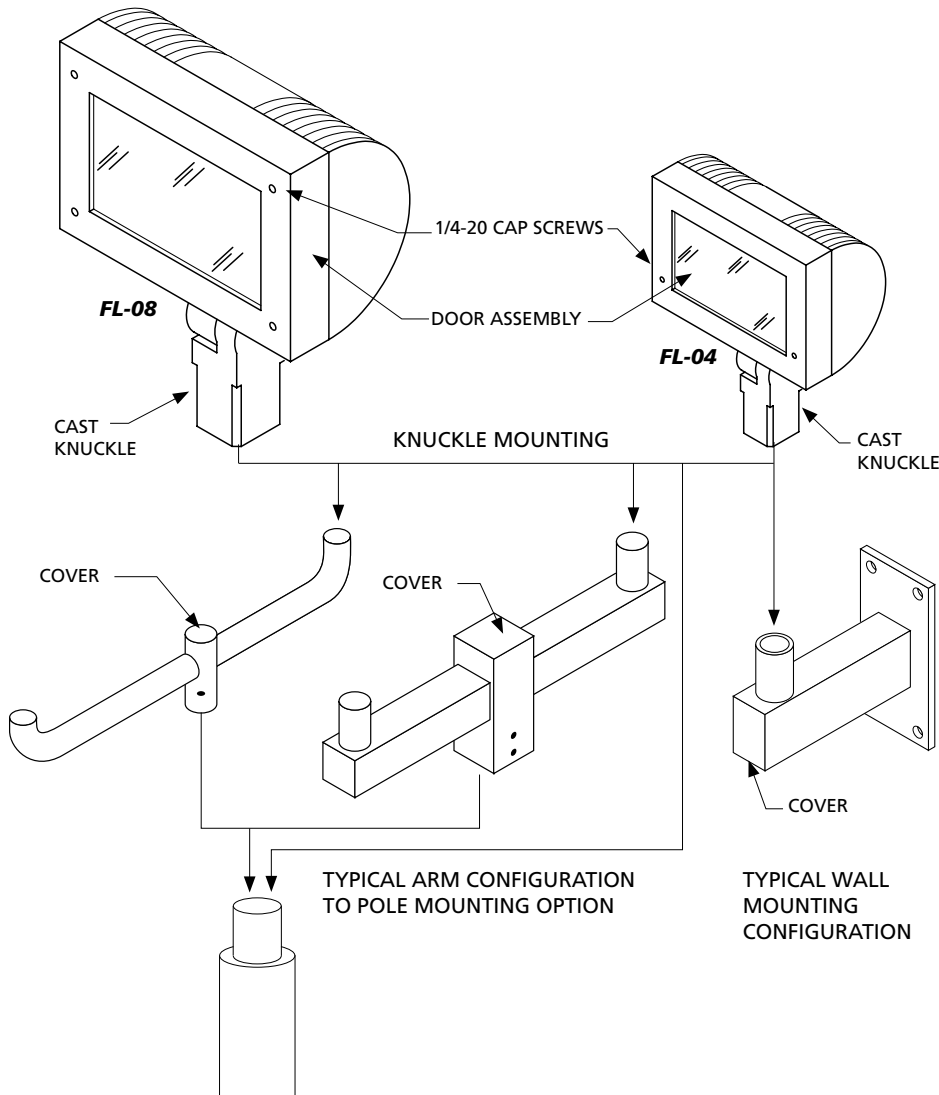
TYPICAL VIEWS (FL-04)

P#32A38877

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TYPICAL ARM INSTALLATIONS - FL-04



1. Secure the arm assembly or wall bracket as required if they are not already installed.

2. Remove the fixture from the box and install over the 2 3/8" O.D. tenon on the pole, on the arm assembly or on the wall bracket.

3. Make power and ground connection using UL approved connectors.

4. Aiming Horizontally- Aim the fixture to the desired orientation. Secure the unit with 1/4" set screws provided with the knuckle.

5. Aiming Vertically- Loosen the hex bolt and aim the fixture to the desired position. Retighten the hex bolt.

6. (FL-08) Open the door by loosening 4-captive 1/4-20 cap screws.

6-A. (FL-04) Open the door by loosening 2-captive 1/4-20 cap screws.

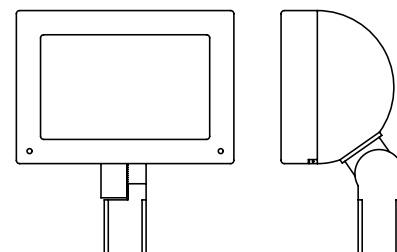
6-B. (FL-02) Open the door by loosening 4-captive 1/4-20 cap screws from the back of fixture.

7. Install the correct lamp and close the door, retighten the cap screws.

INSTALLATION SHEET

Safety, Warnings and Suggestions

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- ² **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ³ **Make** sure that electrical power is disconnected before any work is performed.
- ⁴ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁵ **All** wiring and installation should meet local, state and national electrical codes.
- ⁶ **Install** correct lamp type and wattage.



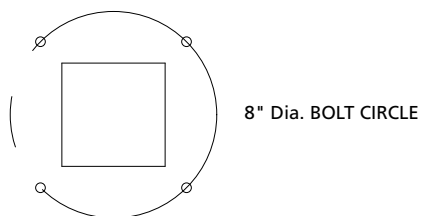
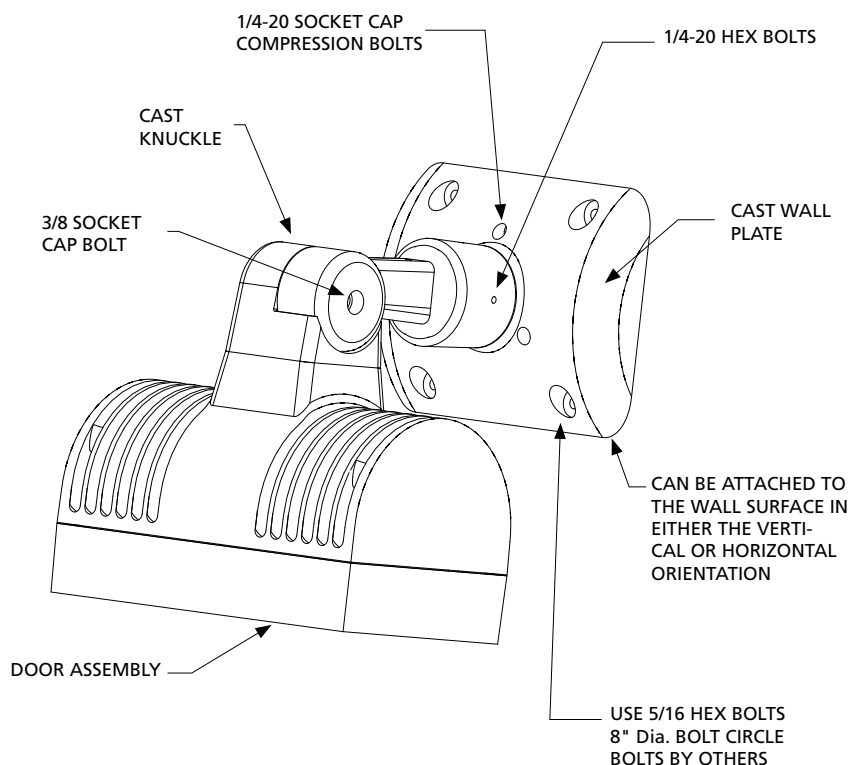
TYPICAL VIEWS (FL-04)

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TYPICAL DWB INSTALLATION - FL-02 shown

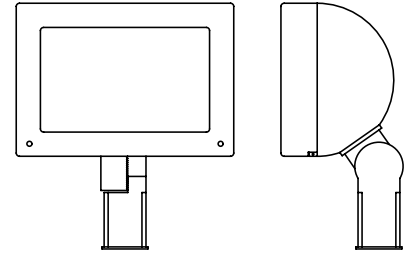


1. Secure the cast wall plate over junction box and in the required orientation. Anchorage by others.
2. Remove the fixture from the box and make power and ground connection using UL approved connectors at the wall plate/tenon opening.
3. Install fixture over the 2 3/8" O.D. tenon on the cast wall plate. Secure the four 1/4-20 hex bolts to the tenon.
4. Aiming Horizontally- Loosen the three 1/4-20 Socket Cap compression bolts and aim the fixture to the desired orientation. Secure fixture by tightening the compression bolts.
5. Aiming Vertically- Loosen the 3/8 socket cap bolt connecting the knuckle to the fixture and aim the fixture to the desired position. Retighten the bolt.
6. (FL-02) Open the door by loosening 4-captive 1/4-20 cap screws from the back of fixture.
- 6-A. (FL-04) Open the door by loosening 2-captive 1/4-20 cap screws in the door frame.
7. Install the correct lamp and close the door, retighten the cap screws.

INSTALLATION SHEET

Safety, Warnings and Suggestions

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- ³ **Make** sure that electrical power is disconnected before any work is performed.
- ⁴ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁵ **All** wiring and installation should meet local, state and national electrical codes.
- ⁶ **Install** correct lamp type and wattage.



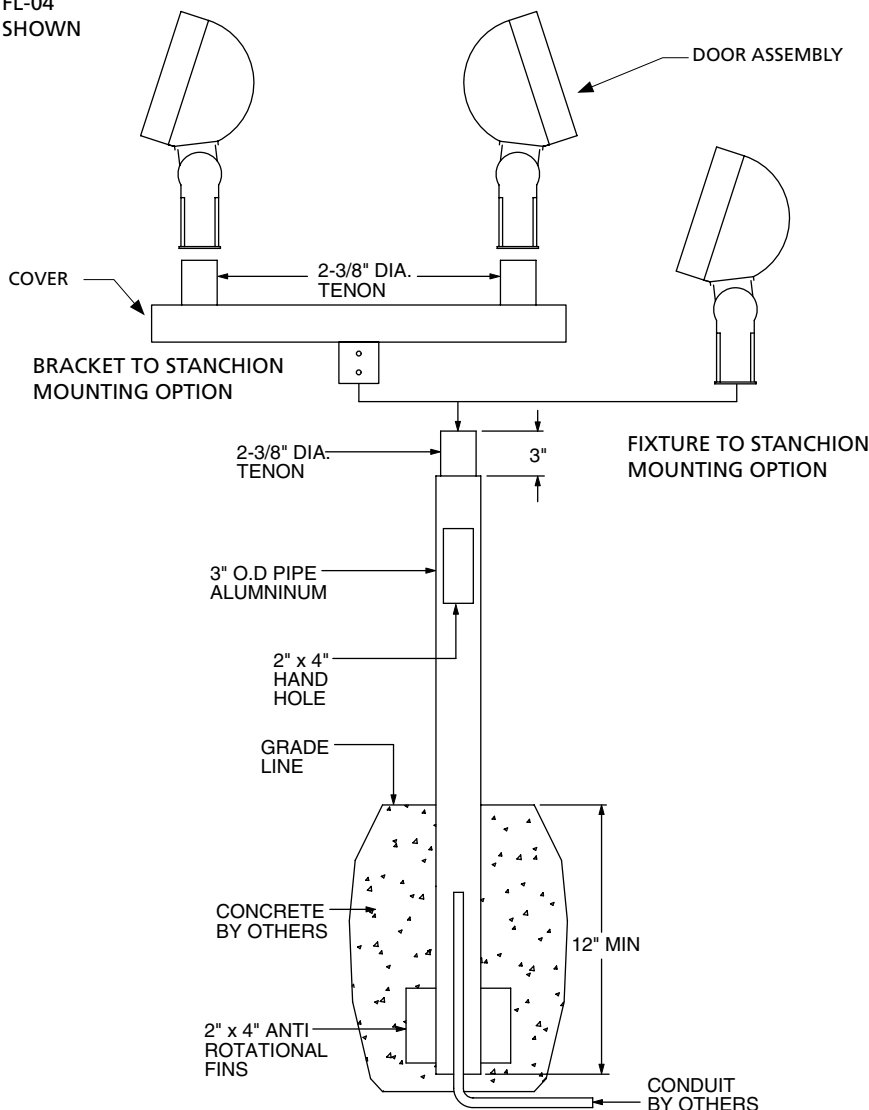
TYPICAL VIEWS (FL-04)

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FL-04
SHOWN



1. Prepare the site with adequate excavation and install the stanchion post as shown.

2. Secure the bracket assembly option to the 2 3/8" O.D. tenon on the stanchion with the set screws provided with the bracket.

3. Remove the fixture from the box and install over the 2 3/8" O.D. tenon on the bracket assembly.

3-A. No bracket option-Remove the fixture from the box and install over the 2 3/8" O.D. tenon on the Stanchion assembly.

4. Make power and ground connection using UL approved connectors.

5. Aiming Horizontally- Aim the fixture to the desired orientation. Secure the unit with the 1/4" set screws provided with the knuckle.

6. Aiming Vertically- Loosen the hex bolt and aim the fixture to the desired position. Retighten the hex bolt.

7. (FL-08) Open the door by loosening 4-captive 1/4-20 cap screws.

7-A. (FL-04) Open the door by loosening 2-captive 1/4-20 cap screws.

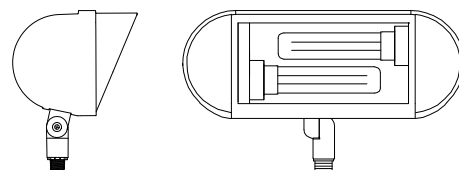
7-B. (FL-02) Open the door by loosening 4-captive 1/4-20 cap screws from the back of fixture.

8. Install the correct lamp and close the door and tighten the cap screws.

INSTALLATION SHEET

Safety, Warnings and Suggestions

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- ³ **Make** sure that electrical power is disconnected before any work is performed.
- ⁴ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁵ **All** wiring and installation should meet local, state and national electrical codes.
- ⁶ **Install** correct lamp type and wattage.

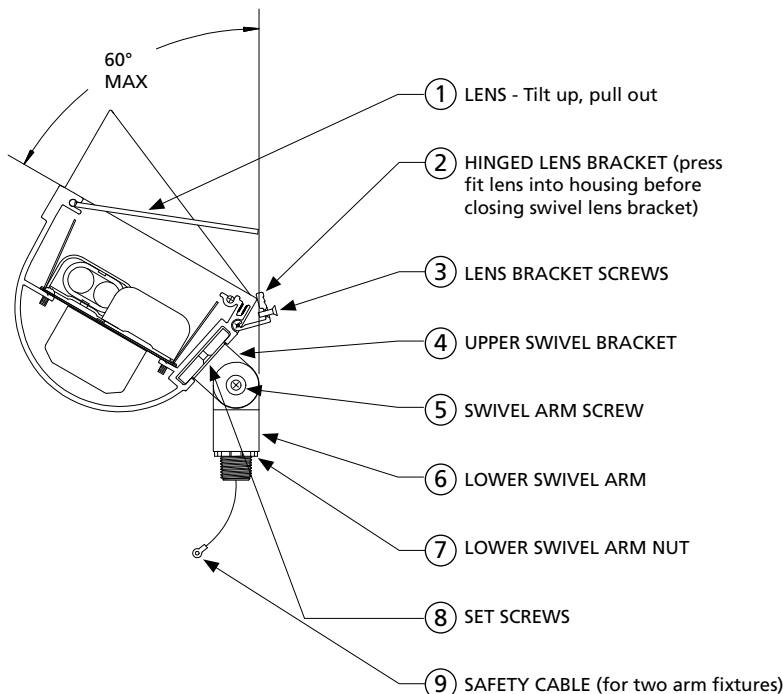
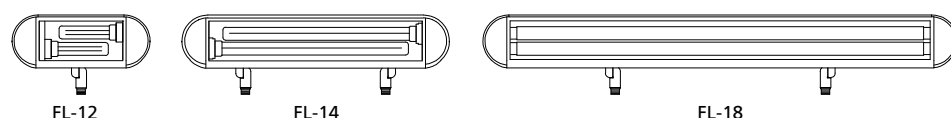


TYPICAL VIEWS (FL-12)

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RELAMPING

1. Remove hinged lens bracket screws (3).
2. Rotate swivel lens bracket (2) down and remove lens (1).
3. Replace lamp.
4. Center lens and press fit it into housing.
5. Hold lens in place and close hinged lens bracket.
6. Replace lens bracket and screws.

1. Remove lower swivel arm(s) (6) from fixture and fasten to mounting surface/junction box cover.
2. If fixture has two arms, move the left swivel bracket laterally by loosening the set screws (8) until the upper two swivel brackets (4) are inline with the mounted lower swivel arms. Tighten the set screws.
3. Pull the fixture wires through the lower swivel arm and into the wire compartment/junction box.
4. Re-install the lower swivel arm(s) on the upper swivel brackets(s) by tightening the swivel arm screw(s) and the lower swivel arm nut(s) (7).
5. When mounting any double armed fixture to a surface higher than 1 foot off the ground, the safety cable must be secured to the junction box or mounting surface.
6. Connect fixture wires to supply wires according to National and Local Electrical code specifications.
7. Loosen swivel arm screws to adjust fixture tilt angle. Caution: Do not tilt fixture back over 60° from vertical. Do not mount fixture in downward aiming position.

INSTALLATION SHEET

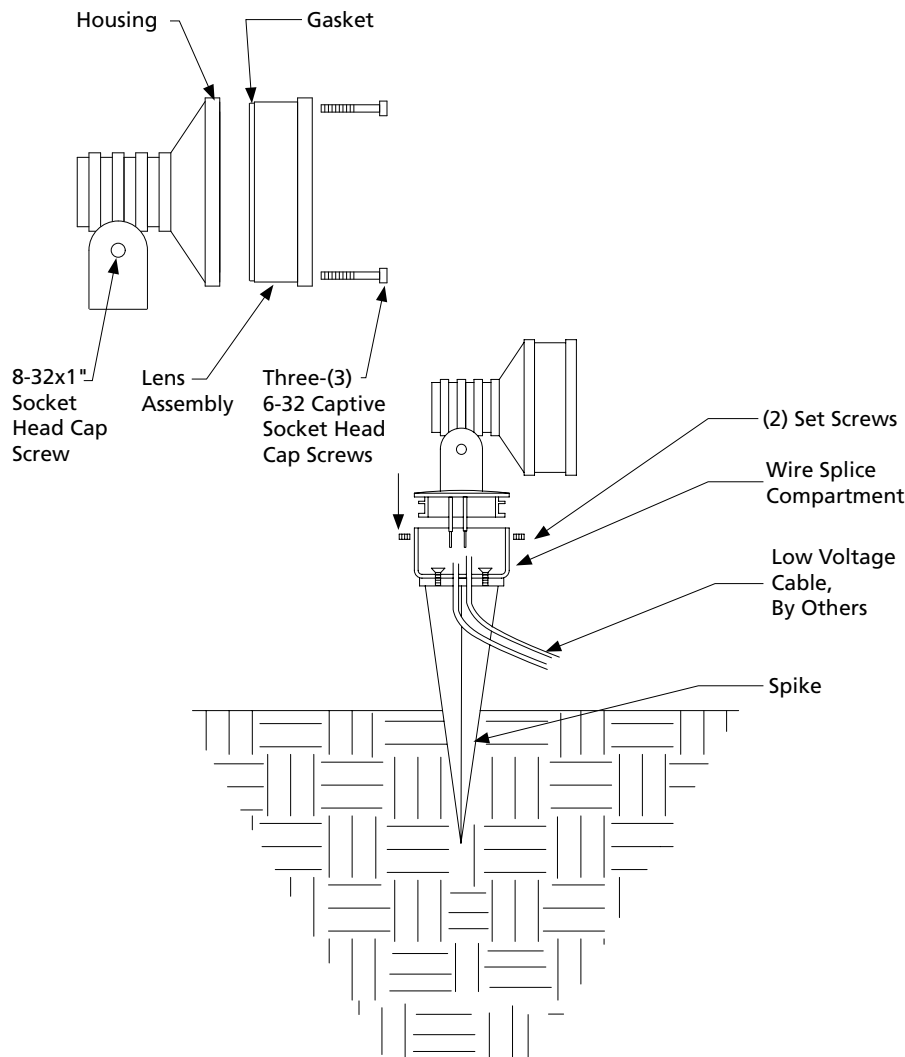
Safety, Warnings and Suggestions

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- ² **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ³ **Make** sure that electrical power is disconnected before any work is performed.
- ⁴ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁵ **All** wiring and installation should meet local, state and national electrical codes.
- ⁶ **Install** correct lamp type and wattage.

P#32A38671

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1. Remove the complete unit from box and remove the head assembly, by loosening (2)-M5x8mm set screws.

2. Bring the low voltage cable up the spike and thru the wire way opening under the splice compartment, low voltage cable by others.

3. The head assembly is ready to be connected to the incoming power. Make power connection inside the splice compartment using UL approved connectors. Contractor to supply waterproof wire nuts. Re-tighten the (2)-M5 set screws.

4. Remove the lens assembly by loosening (3) 6-32 captive socket head cap screws. Install the correct lamp type and wattage.

5. Re-install the lens assembly and make sure that the gasket is properly seated before tightening. Tighten the socket head cap screws manually using multiple tightening steps.

6. Install spike assembly by slowly pressing into the ground and aim.

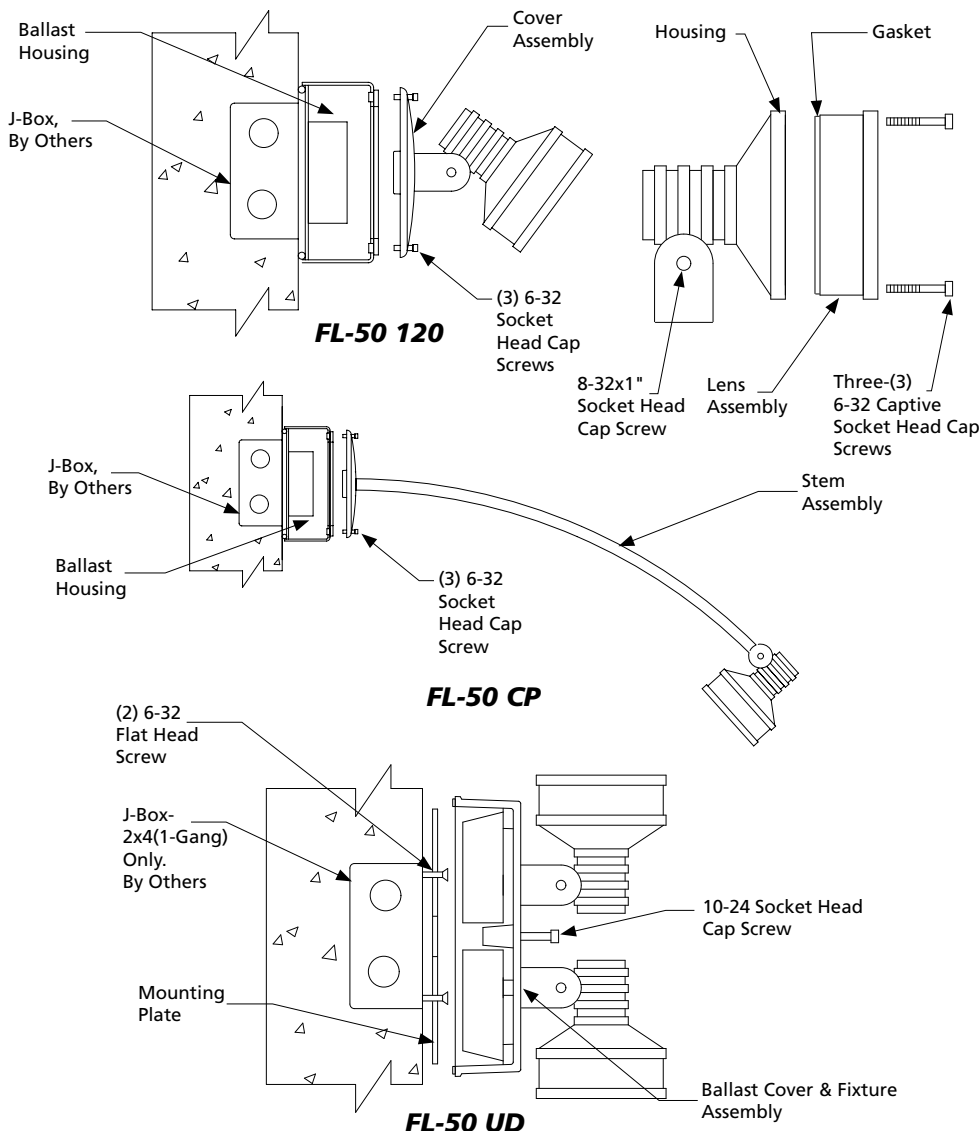
Safety, Warnings and Suggestions

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- ² **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ³ **Make** sure that electrical power is disconnected before any work is performed.
- ⁴ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁵ **All** wiring and installation should meet local, state and national electrical codes.
- ⁶ **Install** correct lamp type and wattage.

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1. (SL50-120 and SL50-CP ONLY) Remove the complete unit from packaging and remove the cover assembly SL50-120/stem assembly SL50-CP, by loosening (3)-6-32 socket head cap screws and put assembly aside. Position the ballast housing over the J-box and secure with (2) 8-32 screws.

2. Make power and ground connection using UL approved connectors. Re-install the assemblies with the (3) 6-32 socket head cap screws.

3. Remove the lens cover assembly by loosening (3)-6-32 captive screws. Install the correct lamp type and wattage.

4. Re-install the lens cover assembly and make sure that the gasket is properly seated before tightening. Tighten the screws manually using multiple tightening steps.

1A. (SL50-UD ONLY) Remove the complete unit from packaging and remove the ballast and fixture assembly, by loosening (2)-10-24 socket head cap screws and put assembly aside. Position the mounting plate over the J-box and secure with (2) 6-32 flat head screws.

2A. Make power and ground connection using UL approved connectors. Re-install the ballast and fixture assembly with the (2) 10-24 socket head cap screws.

3A. SEE STEPS 3 AND 4 ABOVE FOR LAMPING PROCEDURES.

INSTALLATION SHEET

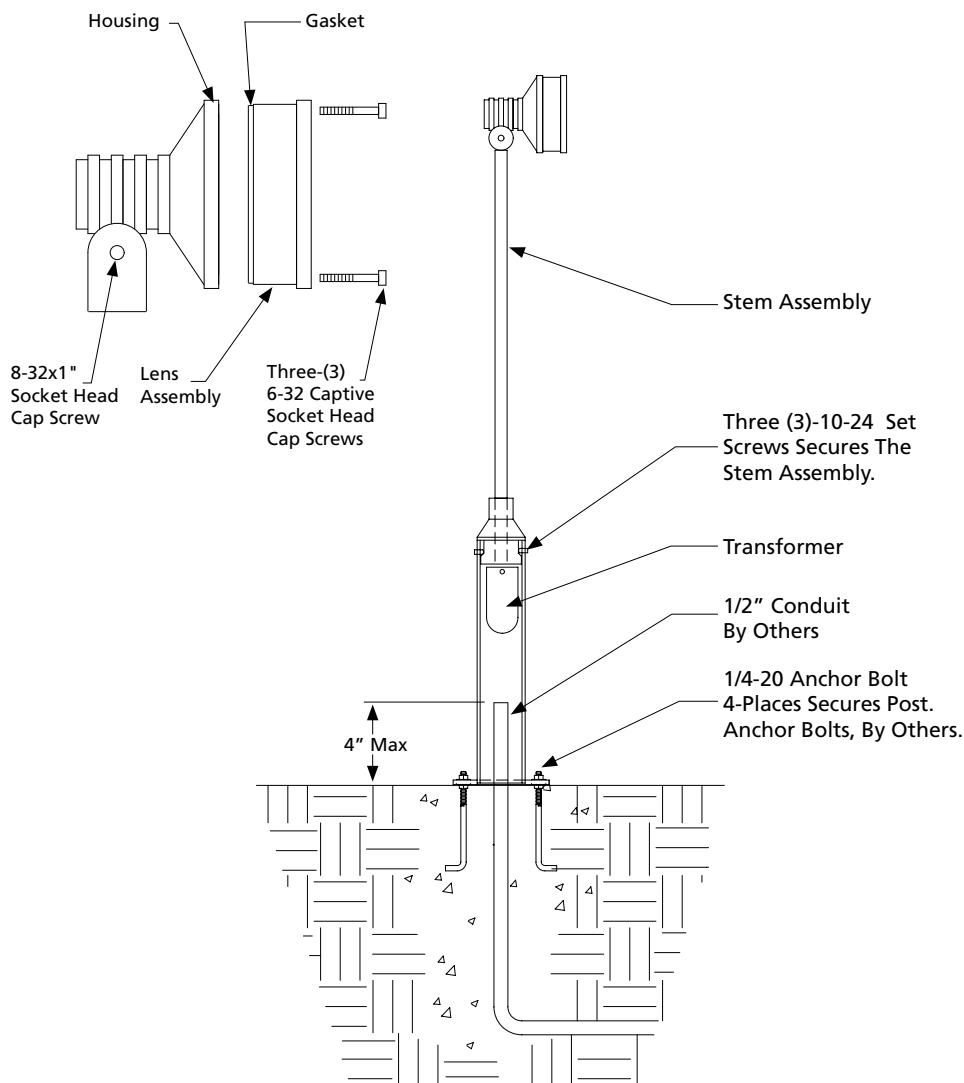
Safety, Warnings and Suggestions

- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ³ **Make** sure that electrical power is disconnected before any work is performed.
- ⁴ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁵ **All** wiring and installation should meet local, state and national electrical codes.
- ⁶ **Install** correct lamp type and wattage.

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1. Prepare the site with adequate excavation and install the anchor bolts as per factory supplied template .

2. Remove the complete unit from package box and remove the stem assembly, by loosening (3)-10-24 set screws. Install post assembly to the anchor bolts and level.

3. The stem assembly is ready to be connected to the incoming power. Make power and ground connection inside the post using UL approved connectors. Contractor to supply waterproof wire nuts. Re-tighten the (3)-10-24 set screws.

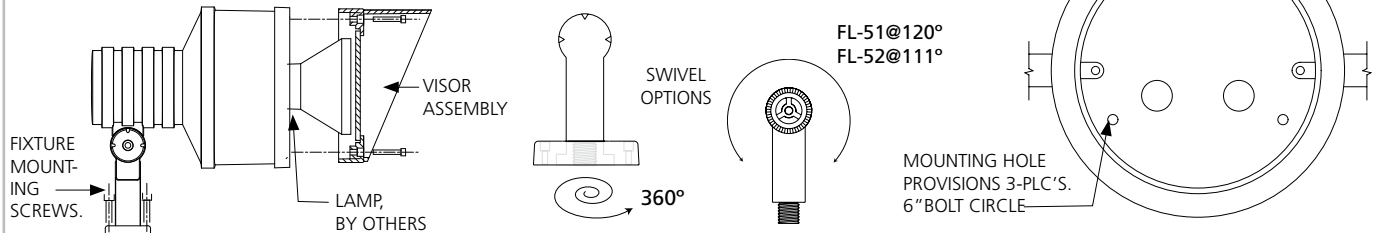
4. Remove the lens assembly by loosening (3)-6-32 captive socket head cap screws. Install the correct lamp type and wattage.

5. Re-install the lens assembly and make sure that the gasket is properly seated before tightening. Tighten the screws manually using multiple tightening steps.

INSTALLATION SHEET

Safety, Warnings and Suggestions

- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
 - ² **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
 - ³ **Make** sure that electrical power is disconnected before any work is performed.
 - ⁴ **All** wiring and installation should meet local, state and national electrical codes.
- Note: FL-51/53 supplied with 1/2" NPT nipple only if no swivel required.

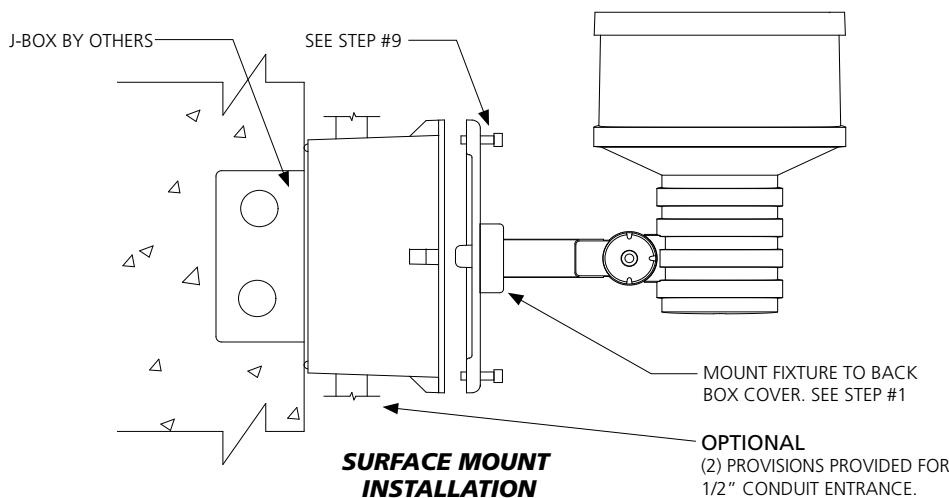


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FL



1. Remove fixture from package and mount to the BACK BOX COVER with (2)-1/4-20 socket head cap screws provided with the fixture.

2. Remove the visor/lens assembly by unscrewing (4) 8-32 (FL-51), or (4) 10-24 (FL-52/53) socket head cap screws. Make sure all hardware is carefully saved until needed.

3. Install the correct lamp type and wattage.

4. Re-install the visor/lens assembly and hand tighten the four (4) 8-32 (FL-51), or (4) 10-24 (FL-52/53) socket head cap screws to 15 in/lbs. max.

5. Position the box on the mounting surface area and secure to surface with three-1/4-20 bolts, bolts by others. (SURFACE MOUNT ONLY).

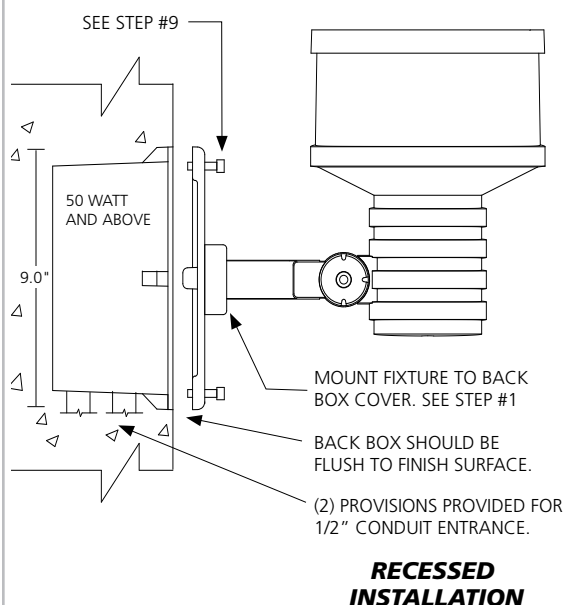
5A. Connect the conduit to the provisions on the back box. See installation details. (RECESSED ONLY)

6. Once the conduit has been connected, Secure back box to wall opening or any mounting provisions being used to the hold box in place. Make sure that back box is flush to the finish surface level.

7. After all preparations to wall have been finished, carefully clean out any dirt left inside of the back box. (RECESSED ONLY)

8. Carefully make all necessary connections using UL listed connectors.

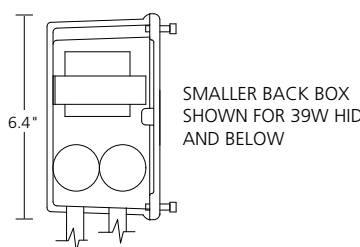
9. Install the back box cover with the fixture mounted to it with four-(4) 10-24 socket head cap screws provided with the fixture.



NOTE: AIMING OPTIONS

1. To adjust the aim in the vertical plane, unscrew the 1/4-20 socket head cap screw which attaches the housing to the knuckle several turns. Aim the housing. Then hand tighten the 1/4-20 socket head cap screw to 15 in/lbs. maximum. The fixture housing can be adjusted 130°.

2. To adjust the aim in the horizontal plane unscrew the 1/2" NPT lock nut (junction box) or the two (2) 1/4-20 socket head cap screws securing the fixture to the ballast box several turns. The fixture can be adjusted 360°. Once the correct position has been established lock the fixture in place, by either, tightening the 1/2" NPT lock nut (junction box) or the two (2) 1/4-20 socket head cap screws to 15 in/lbs. maximum (ballast box).



INSTALLATION SHEET

Safety, Warnings and Suggestions

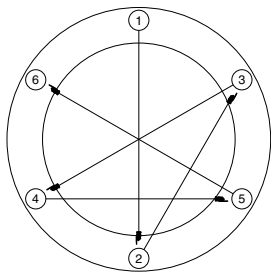
- ¹ Care should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² Avoid installing fixtures in locations where water collects and stands for prolonged periods.
- ³ Make sure that electrical power is disconnected before any work is performed.
- ⁴ All gaskets and sealing surfaces must be kept clean during installation.
- ⁵ As a rule of thumb, the higher the fixture is mounted above grade potential problems such as foliage over growth or water, mud etc. collecting on the lens are reduced.
- ⁶ All wiring and installation should meet local, state and national electrical codes.
- ⁷ Install correct lamp type and wattage.

Note: FL-51/53 supplied with 1/2" NPT nipple only if no swivel required.

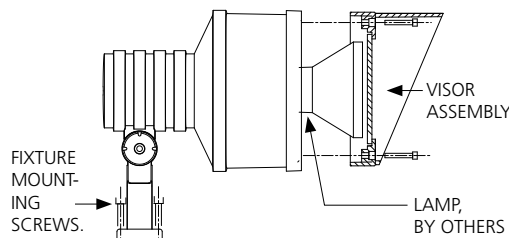
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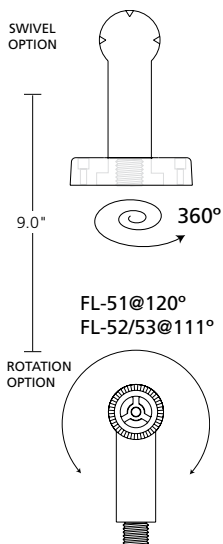


Use several rotations of the following sequence to tighten the cast cover plate socket head cap screws, to 25 in/lbs. max.



NOTE: AIMING OPTIONS

1. To adjust the aim in the vertical plane, unscrew the 1/4-20 socket head cap screw which attaches the housing to the knuckle several turns. Aim the housing. Then hand tighten the 1/4-20 socket head cap screw to 15 in/lbs. maximum. The fixture housing can be adjusted 130°.
2. To adjust the aim in the horizontal plane unscrew the two (2) 1/4-20 socket head cap screws securing the fixture to the ballast box several turns. The fixture can be adjusted 360°. Once the correct position has been established lock the fixture in place by tightening the two (2) 1/4-20 socket head cap screws to 15 in/lbs. maximum (ballast box).



BALLAST COVER

NOTE:
SL-33 COMPOSITE HOUSING SHOWN DOTTED FOR REFERENCE. SEE SL-33 COMPOSITE BALLAST HOUSING FOR INSTALLATION INSTRUCTIONS.

1. Install ballast housing or junction box as required for job.

2. Remove fixture and ballast housing cover from packaging.

3. Remove the visor/lens assembly by unscrewing four-(4) 8-32 (FL-51), or (4) 10-24 (FL-52/53) socket head cap screws.

4. Install the correct lamp type and wattage.

5. Re-install the visor/lens assembly and hand tighten the four-(4) 8-32 (FL-51), or (4) 10-24 (FL-52/53) socket head cap screws to 15 in/lbs. max.

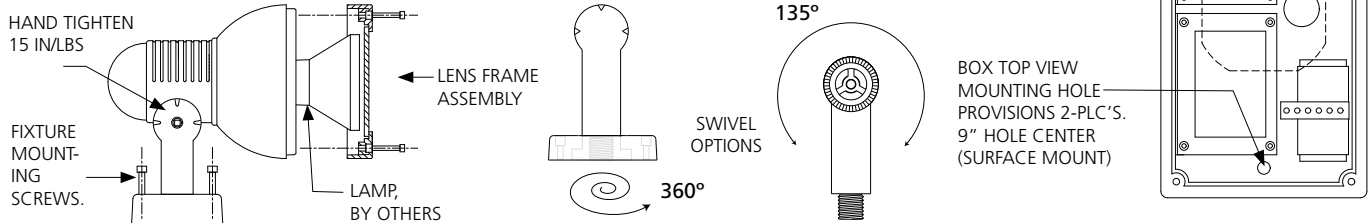
6. Install the ballast cover with the fixture mounted to it; with six-(6) 10-24 socket head cap screws provided with the cover.

IMPORTANT! A CRISS CROSS PATTERN IS REQUIRED TO ENSURE THAT A GOOD COMPRESSION SEAL IS MADE. If this is not accomplished the ballast housing could leak and be damaged. Tighten the socket head cap screws gradually using multiple tightening steps up to 25 in/lbs. max.

INSTALLATION SHEET

Safety, Warnings and Suggestions

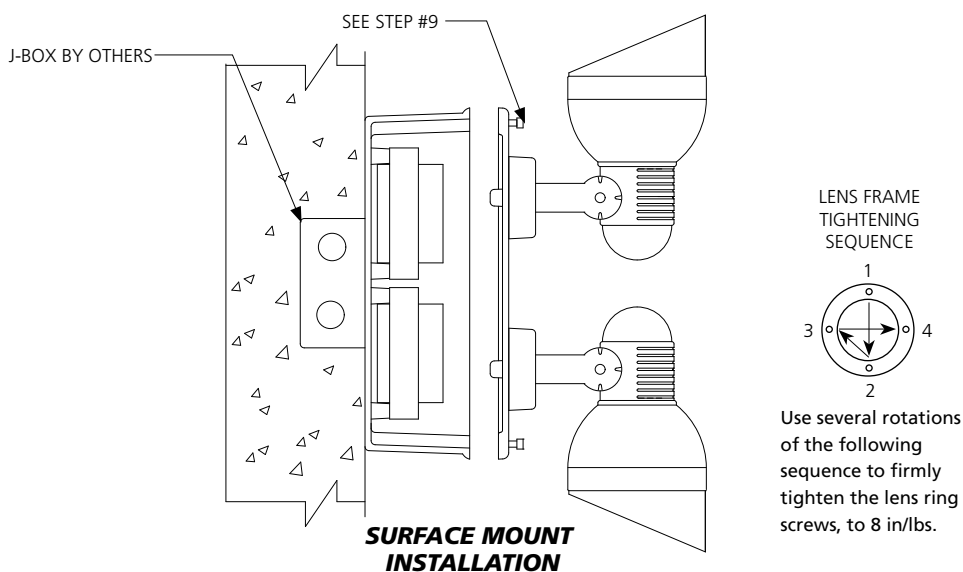
- ¹ Care should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
 - ² Avoid installing fixtures in locations where water collects and stands for prolonged periods.
 - ³ Make sure that electrical power is disconnected before any work is performed.
 - ⁴ All wiring and installation should meet local, state and national electrical codes.
- Note: FL-61 supplied with 1/2" NPS nipple only if no swivel required.



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1. Remove fixtures from package and mount to the BACK BOX COVER with (2)-8-32 socket head cap screws provided with the fixture.

2. Remove the lens frame assembly by unscrewing (4) 6-32 socket head cap screws.

3. Install the correct lamp type and wattage.

4. Re-install the lens frame assembly and hand tighten the four (4) 6-32 socket head cap screws to 8 in/lbs using several rotations in sequence.

5. Position the box on the mounting surface area and secure to surface with two-1/4-20 bolts, bolts by others. (SURFACE MOUNT ONLY).

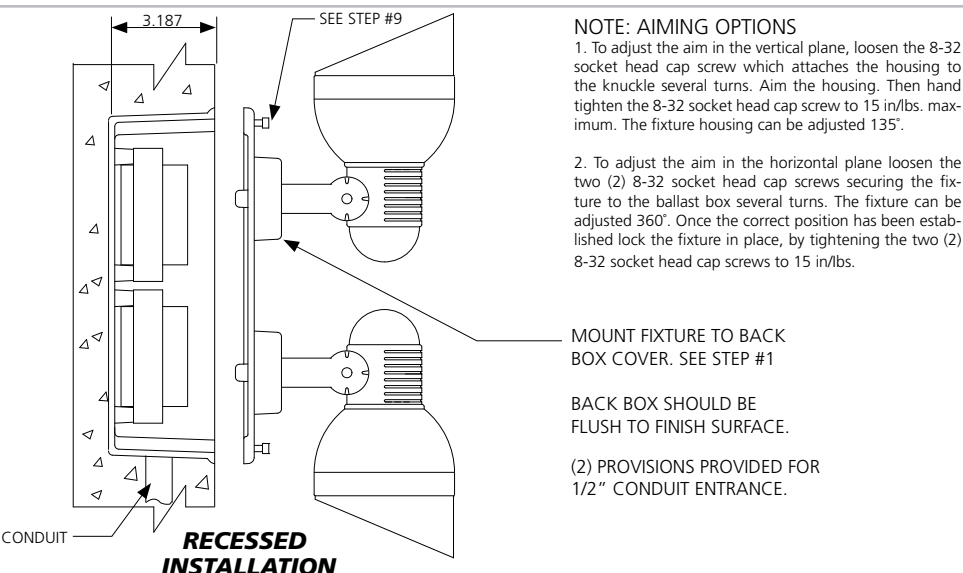
5A. Connect the conduit to the provisions on the back box. See installation details. (RECESSED ONLY)

6. Once the conduit has been connected, Secure back box to wall opening or any mounting provisions being used to hold box in place. Make sure that back box is flush to the finish surface level.

7. After all preparations to wall have been finished, carefully clean out any dirt left inside of the back box. (RECESSED ONLY)

8. Carefully make all necessary connections using UL listed connectors.

9. Install the back box cover with the fixtures mounted to it with four-(4) 8-32 socket head cap screws provided with the fixture.



NOTE: AIMING OPTIONS

1. To adjust the aim in the vertical plane, loosen the 8-32 socket head cap screw which attaches the housing to the knuckle several turns. Aim the housing. Then hand tighten the 8-32 socket head cap screw to 15 in/lbs. maximum. The fixture housing can be adjusted 135°.
2. To adjust the aim in the horizontal plane loosen the two (2) 8-32 socket head cap screws securing the fixture to the ballast box several turns. The fixture can be adjusted 360°. Once the correct position has been established lock the fixture in place, by tightening the two (2) 8-32 socket head cap screws to 15 in/lbs.

MOUNT FIXTURE TO BACK BOX COVER. SEE STEP #1

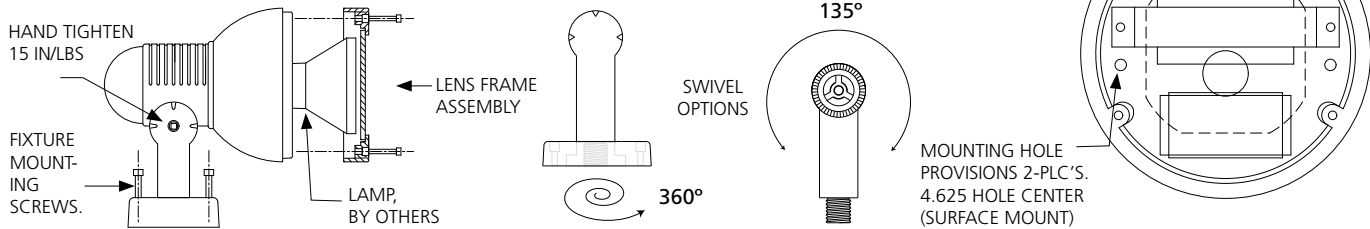
BACK BOX SHOULD BE FLUSH TO FINISH SURFACE.

(2) PROVISIONS PROVIDED FOR 1/2" CONDUIT ENTRANCE.

INSTALLATION SHEET

Safety, Warnings and Suggestions

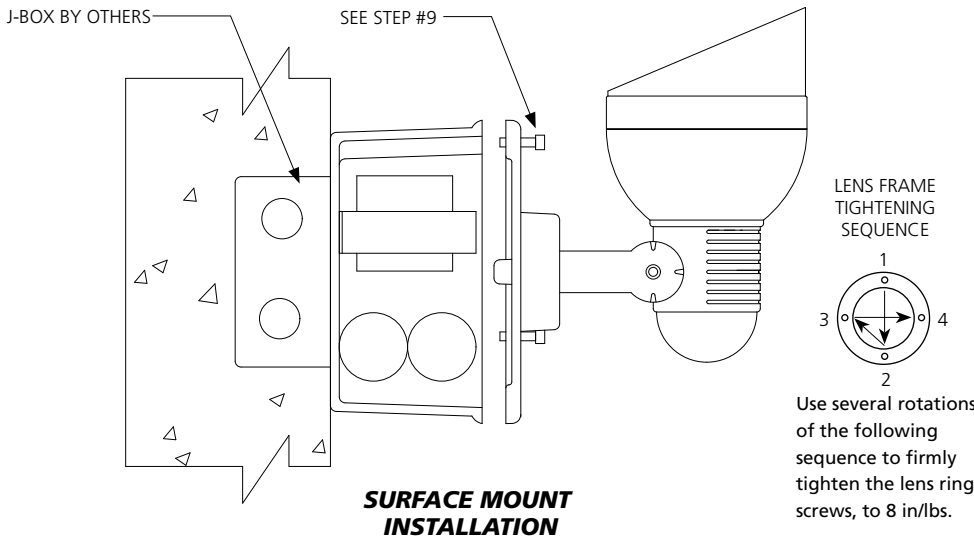
- ¹ Care should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
 - ² Avoid installing fixtures in locations where water collects and stands for prolonged periods.
 - ³ Make sure that electrical power is disconnected before any work is performed.
 - ⁴ All wiring and installation should meet local, state and national electrical codes.
- Note: FL-61 supplied with 1/2" NPS nipple only if no swivel required.



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SURFACE MOUNT INSTALLATION

1. Remove fixture from package and mount to the BACK BOX COVER with (2)-8-32 socket head cap screws provided with the fixture.

2. Remove the lens frame assembly by unscrewing (4) 6-32 socket head cap screws.

3. Install the correct lamp type and wattage.

4. Re-install the lens frame assembly and hand tighten the four (4) 6-32 socket head cap screws to 8 in/lbs. using several rotations in sequence.

5. Position the box on the mounting surface area and secure to surface with two-1/4-20 bolts, bolts by others. (SURFACE MOUNT ONLY).

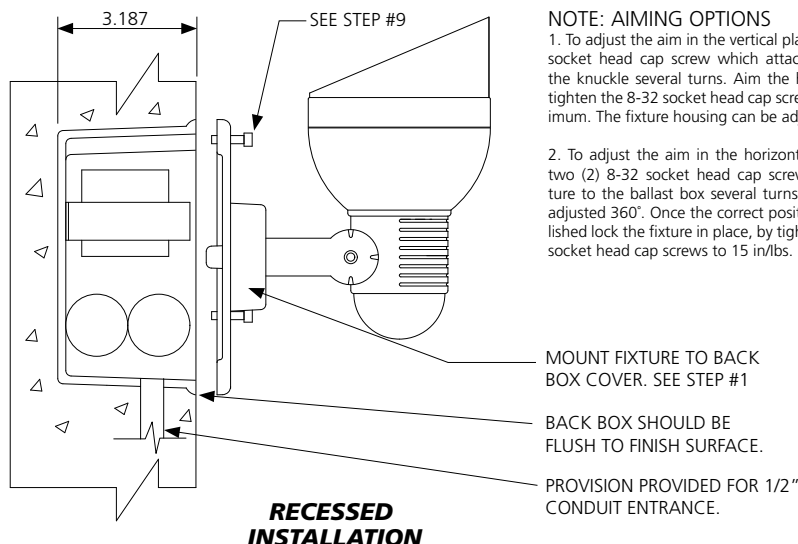
5A. Connect the conduit to the provisions on the back box. See installation details. (RECESSED ONLY)

6. Once the conduit has been connected, Secure back box to wall opening or any mounting provisions being used to hold box in place. Make sure that back box is flush to the finish surface level.

7. After all preparations to wall have been finished, carefully clean out any dirt left inside of the back box. (RECESSED ONLY)

8. Carefully make all necessary connections using UL listed connectors.

9. Install the back box cover with the fixture mounted to it with three-(3) 8-32 socket head cap screws provided with the fixture.



RECESSED INSTALLATION

NOTE: AIMING OPTIONS

1. To adjust the aim in the vertical plane, loosen the 8-32 socket head cap screw which attaches the housing to the knuckle several turns. Aim the housing. Then hand tighten the 8-32 socket head cap screw to 15 in/lbs. maximum. The fixture housing can be adjusted 135°.
2. To adjust the aim in the horizontal plane loosen the two (2) 8-32 socket head cap screws securing the fixture to the ballast box several turns. The fixture can be adjusted 360°. Once the correct position has been established lock the fixture in place, by tightening two (2) 8-32 socket head cap screws to 15 in/lbs.

MOUNT FIXTURE TO BACK BOX COVER. SEE STEP #1

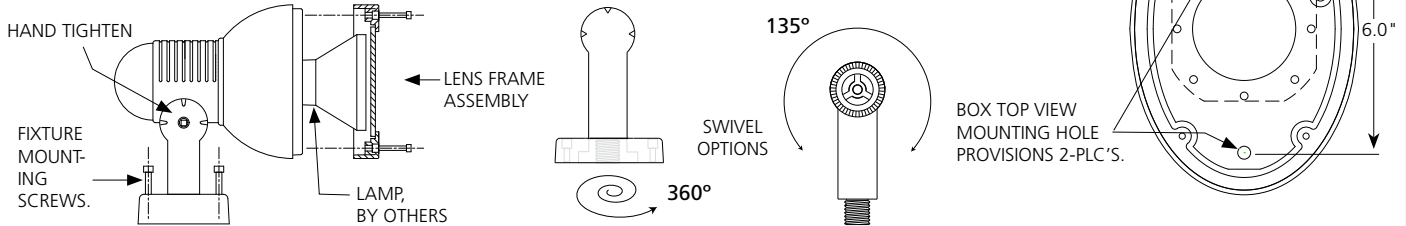
BACK BOX SHOULD BE FLUSH TO FINISH SURFACE.

PROVISION PROVIDED FOR 1/2" CONDUIT ENTRANCE.

INSTALLATION SHEET

Safety, Warnings and Suggestions

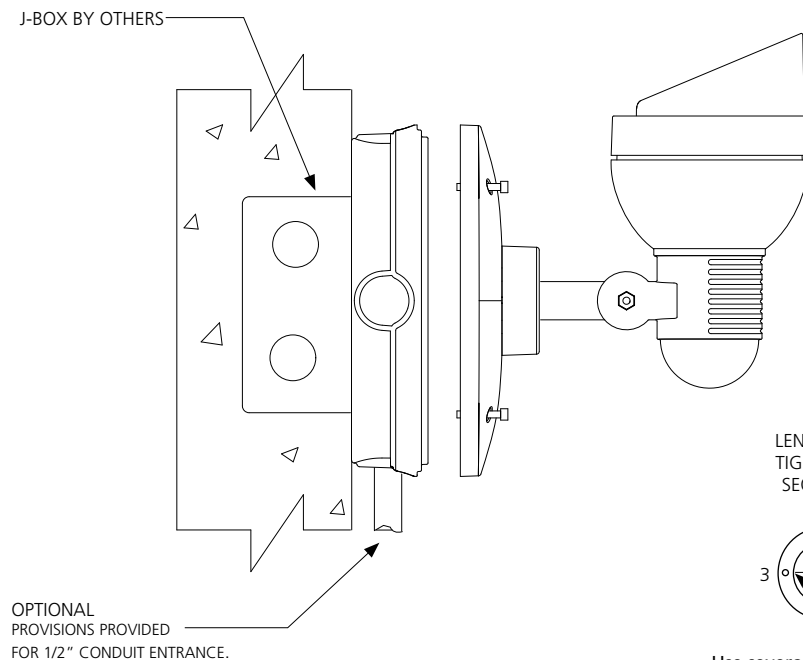
- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
 - ² **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
 - ³ **Make** sure that electrical power is disconnected before any work is performed.
 - ⁴ **All** wiring and installation should meet local, state and national electrical codes.
- Note: FL-51 supplied with 1/2" NPT and FL-61 supplied with 1/2" NPS nipple only if no swivel required.



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NOTE: AIMING OPTIONS

1. To adjust the aim in the vertical plane, loosen the 8-32 (FL-61) or 1/4-20 (FL-51) socket head cap screw which attaches the housing to the knuckle several turns. Aim the housing. Then hand tighten the 8-32 (FL-61) or 1/4-20 (FL-51) socket head cap screw to 10 or 15 in/lbs respectively. The fixture housing can be adjusted 135°.

2. To adjust the aim in the horizontal plane loosen the two (2) 8-32 (FL-61) or 1/4-20 (FL-51) socket head cap screws securing the fixture to the ballast housing several turns. The fixture can be adjusted 360°. Once the correct position has been established, lock the fixture in place by tightening the two (2) 8-32 (FL-61) or 1/4-20 (FL-51) socket head cap screws to 10 or 15 in/lbs respectively.

Use several rotations of the following sequence to firmly tighten the lens ring screws, to 8 in/lbs (FL-61) or 10 in/lbs (FL-51).

1. Remove the lens frame assembly by unscrewing four (4) 6-32 (FL-61) or (4) 8-32 (FL-51) socket head cap screws.

2. Install the correct lamp type and wattage.

3. Re-install the lens frame assembly and hand tighten the four (4) 6-32 (FL-61) or (4) 8-32 (FL-51) socket head cap screws to 8 in/lbs (FL-61) or 10 in/lbs (FL-51).

4. Position the lower half ballast housing on the mounting surface and secure with two (2) 1/4-20 bolts, bolts by others. To ensure a watertight seal, use silicone sealant between the housing and mounting surface.

4A. Connect conduit to the provisions on the lower housing half. (SURFACE CONDUIT CONNECTION ONLY)

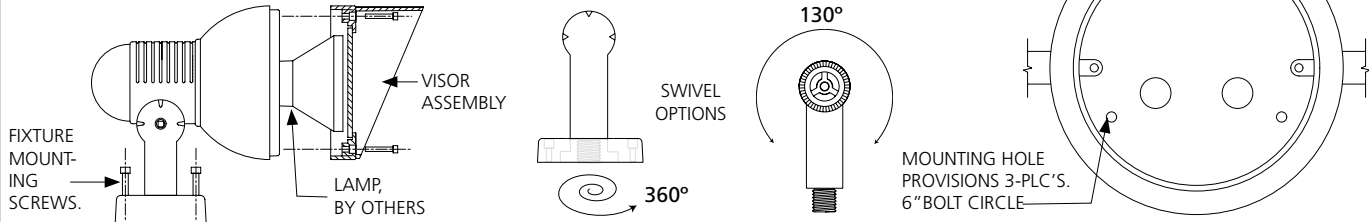
5. Carefully make all necessary connections using UL listed connectors.

6. Install the ballast housing cover with the fixture mounted to it with the four (4) 8-32 socket head cap screws provided with the fixture. Caution: ensure wires are not pinched during cover assembly.

INSTALLATION SHEET

Safety, Warnings and Suggestions

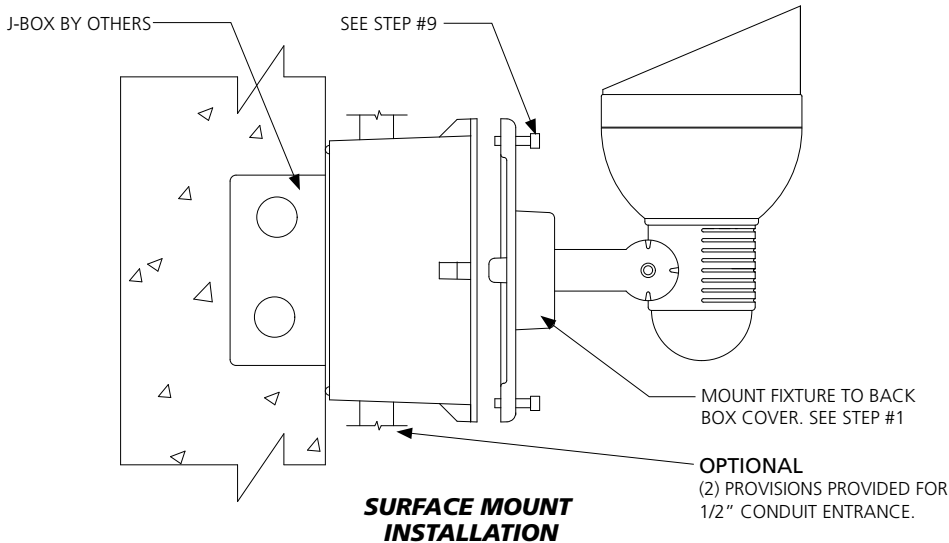
- ¹ Care should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
 - ² Avoid installing fixtures in locations where water collects and stands for prolonged periods.
 - ³ Make sure that electrical power is disconnected before any work is performed.
 - ⁴ All wiring and installation should meet local, state and national electrical codes.
- Note: FL-63 supplied with 1/2" NPT nipple only if no swivel required.



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1. Remove fixture from package and mount to the BACK BOX COVER with (2)-1/4-20 cap head screws provided with the fixture.

2. Remove the visor/lens assembly by unscrewing (4) 8-32 socket head cap screws. Make sure all hardware is carefully saved until needed.

3. Install the correct lamp type and wattage.

4. Re-install the visor/lens assembly and hand tighten the four (4) 8-32 socket head cap screws to 10 in/lbs. max.

5. Position the box on the mounting surface area and secure to surface with three-1/4-20 bolts, bolts by others. (SURFACE MOUNT ONLY).

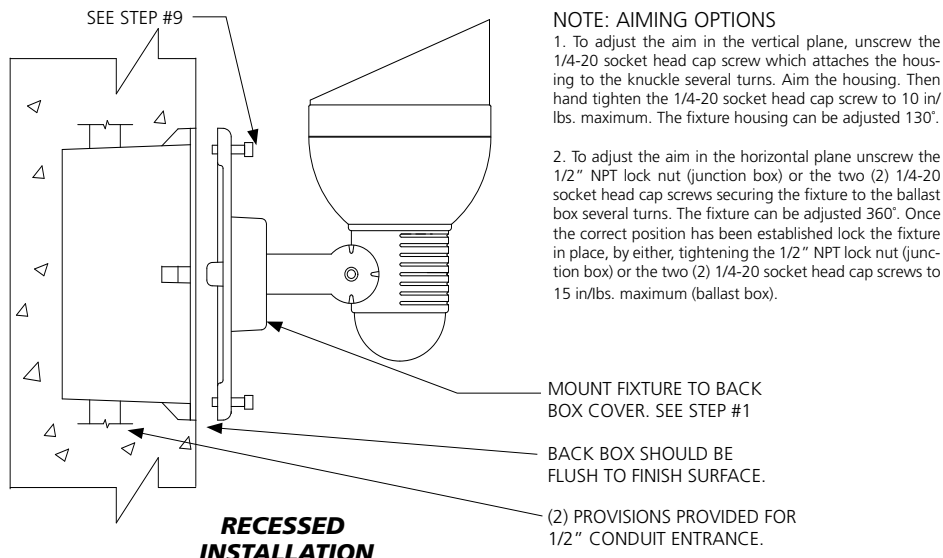
5A. Connect the conduit to the provisions on the back box. See installation details. (RECESSED ONLY)

6. Once the conduit has been connected, Secure back box to wall opening or any mounting provisions being used to hold box in place. Make sure that back box is flush to the finish surface level.

7. After all preparations to wall have been finished, carefully clean out any dirt left inside of the back box. (RECESSED ONLY)

8. Carefully make all necessary connections using UL listed connectors.

9. Install the back box cover with the fixture mounted to it with four-(4) 10-24 socket head cap screws provided with the fixture.



NOTE: AIMING OPTIONS

1. To adjust the aim in the vertical plane, unscrew the 1/4-20 socket head cap screw which attaches the housing to the knuckle several turns. Aim the housing. Then hand tighten the 1/4-20 socket head cap screw to 10 in/lbs. maximum. The fixture housing can be adjusted 130°.

2. To adjust the aim in the horizontal plane unscrew the 1/2" NPT lock nut (junction box) or the two (2) 1/4-20 socket head cap screws securing the fixture to the ballast box several turns. The fixture can be adjusted 360°. Once the correct position has been established lock the fixture in place, by either, tightening the 1/2" NPT lock nut (junction box) or the two (2) 1/4-20 socket head cap screws to 15 in/lbs. maximum (ballast box).

INSTALLATION SHEET

Safety, Warnings and Suggestions

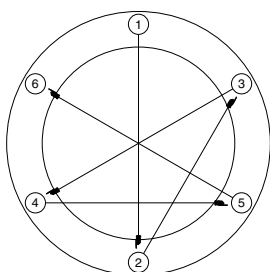
- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ³ **Make** sure that electrical power is disconnected before any work is performed.
- ⁴ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁵ **As** a rule of thumb, the higher the fixture is mounted above grade potential problems such as foliage over growth or water, mud etc. collecting on the lens are reduced.
- ⁶ **All** wiring and installation should meet local, state and national electrical codes.
- ⁷ **Install** correct lamp type and wattage.

Note: FL-63 supplied with 1/2" NPT nipple only if no swivel required.

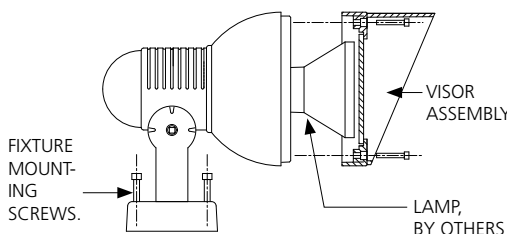
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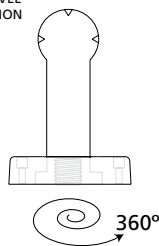
Use several rotations of the following sequence to tighten the cast cover plate screws, to 25 in/lbs. max.



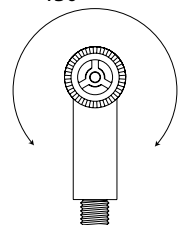
NOTE: AIMING OPTIONS

1. To adjust the aim in the vertical plane, unscrew the 1/4-20 socket head cap screw which attaches the housing to the knuckle several turns. Aim the housing. Then hand tighten the 1/4-20 socket head cap screw to 10 in/lbs. maximum. The fixture housing can be adjusted 130°.
2. To adjust the aim in the horizontal plane unscrew the two (2) 1/4-20 socket head cap screws securing the fixture to the ballast box several turns. The fixture can be adjusted 360°. Once the correct position has been established lock the fixture in place by tightening the two (2) 1/4-20 socket head cap screws to 15 in/lbs. maximum (ballast box).

SWIVEL OPTION

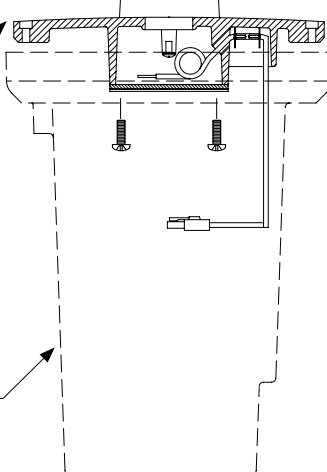


ROTATION OPTION 130°



BALLAST COVER

NOTE:
SL-33 COMPOSITE HOUSING SHOWN DOTTED FOR REFERENCE. SEE SL-33 COMPOSITE BALLAST HOUSING FOR INSTALLATION INSTRUCTIONS.



1. Install ballast housing or junction box as required for job.

2. Remove fixture and ballast housing cover from packaging.

3. Remove the visor/lens assembly by unscrewing four-(4) 8-32 socket head cap screws.

4. Install the correct lamp type and wattage.

5. Re-install the visor/lens assembly and hand tighten the four-(4) 8-32 socket head cap screws to 10 in/lbs. max.

6. Install the ballast cover with the fixture mounted to it; with six-(6) 10-24 socket head cap screws provided with the cover.

IMPORTANT! A CRISS CROSS PATTERN IS REQUIRED TO ENSURE THAT A GOOD COMPRESSION SEAL IS MADE. If this is not accomplished the ballast housing could leak and be damaged. Tighten the screws gradually using multiple tightening steps up to 25 in/lbs. max.

INSTALLATION SHEET

Safety, Warnings and Suggestions

- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ³ **Make** sure that electrical power is disconnected before any work is performed.
- ⁴ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁵ **All** wiring and installation should meet local, state and national electrical codes.
- ⁶ **Install** correct lamp type and wattage.

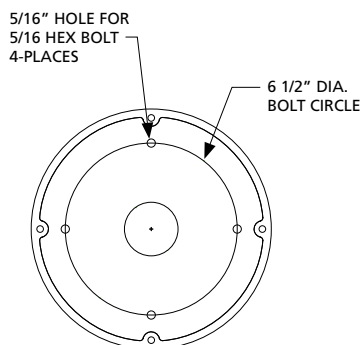
REFLECTOR ADJUSTMENT FLOOD TO SPOT OR VISE-VERSA

1. To adjust the reflector from flood to spot use a flat screwdriver to turn the adjustment screw at the back of the housing.
2. To achieve a flood pattern, turn the adjustment screw counterclockwise.
3. To achieve a spot pattern, turn the adjustment screw clock-wise.

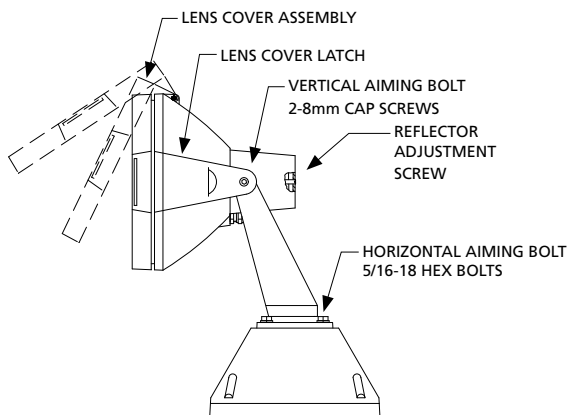
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**FL-220 SSM WALL PLATE
ASSEMBLY BOLT PATTERN**



1. Secure the wall plate as required if it is not already installed.

2. (FL-320 WALL PLATE LSM) Remove the fixture from the box and remove the wall plate assembly by removing (4)-1/4-20 cap bolts. Install the wall plate assembly with (4)-3/8-16 hex bolts provided by the contractor.

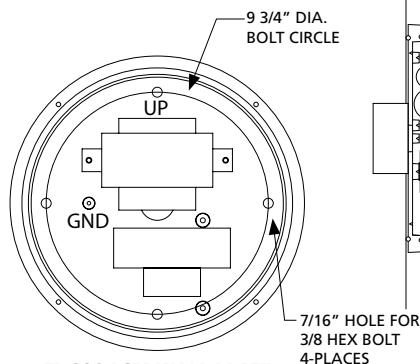
- 2-A. (FL-220 WALL PLATE SSM) Remove the fixture from the box and remove the wall plate. Secure the plate to the wall as required, use (4)-5/16 hex bolts provided by contractor. Reinstall the fixture onto the wall plate with (4)-1/4-20 cap screws.

3. Make power and ground connections using UL approved connectors. Wall plate option make electrical connection at the junction box.

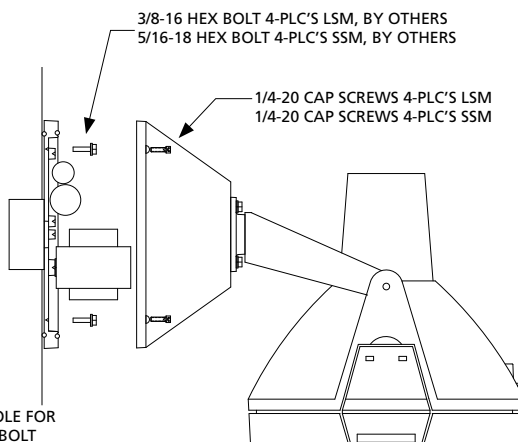
4. Aiming Horizontally- Loosen (2)-5/16-18 hex bolts. Aim the fixture to the desired orientation. Retighten the bolts.

5. Aiming Vertically- Loosen (2)-8mm cap bolts, use a #6mm Allen bit. Aim the fixture to the desired orientation. Retighten the bolts.

6. Open the lens cover by lifting the (2)-latches and swing the cover open as shown. Install the proper lamp and close the lens cover.



**FL-320 LSM WALL PLATE
ASSEMBLY BOLT PATTERN**

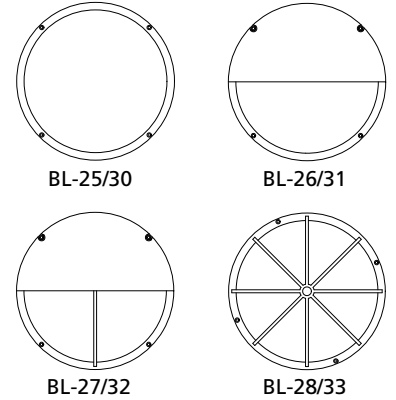


TYPICAL WALL MOUNTING OPTION LSM/SSM

INSTALLATION SHEET

Safety, Warnings and Suggestions

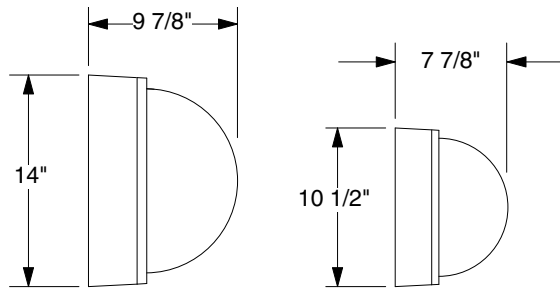
- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² **Make** sure that electrical power is disconnected before any work is performed.
- ³ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁴ **All** wiring and installation should meet local, state and national electrical codes.
- ⁵ **Install** correct lamp type and wattage.



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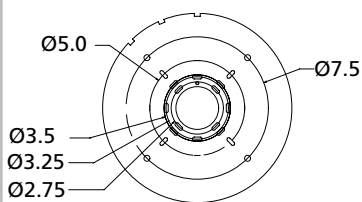
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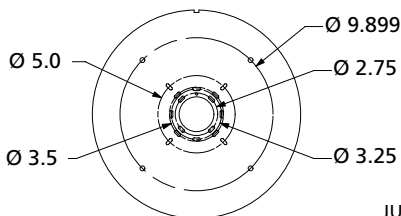
BL-30 THRU 33

BL-25 THRU 28

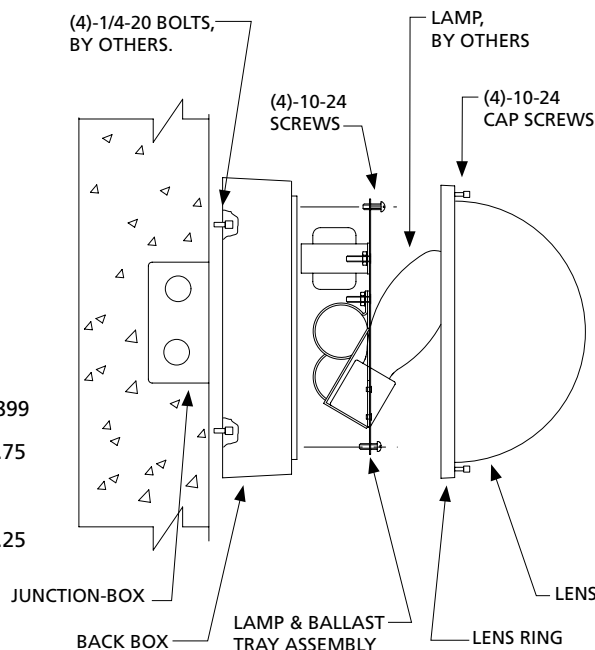
TYPICAL FIXTURE DIMENSIONS



BL-25 THRU 28
MOUNTING DETAIL



BL-30 THRU 33
MOUNTING DETAIL



TYPICAL WALL INSTALLATION

1. Remove the fixture from the box. Remove the lens and lens ring by loosening (4)-10-24 cap screws. Remove the ballast tray assembly by loosening (4)-10-24 screws.

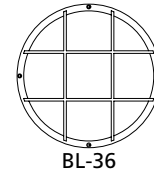
2. Secure the back box to the wall with (4)-1/4-20 bolts or to the junction box with 8-32 screws, hardware by others. Make power and ground connection using UL approved connectors at the Junction-box (J-box by others). Reinstall the ballast tray with the (4)-10-24 screws provided

3. (LAMP INSTALLATION)
Install the correct lamp type and wattage. Reinstall the lens and lens ring. Tighten the (4)-10-24 cap screws.

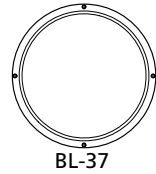
INSTALLATION SHEET

Safety, Warnings and Suggestions

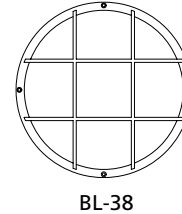
- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² **Make** sure that electrical power is disconnected before any work is performed.
- ³ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁴ **All** wiring and installation should meet local, state and national electrical codes.
- ⁵ **Install** correct lamp type and wattage.



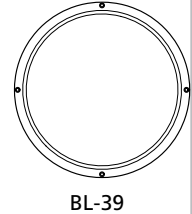
BL-36



BL-37



BL-38

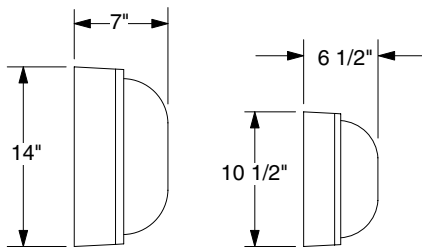


BL-39

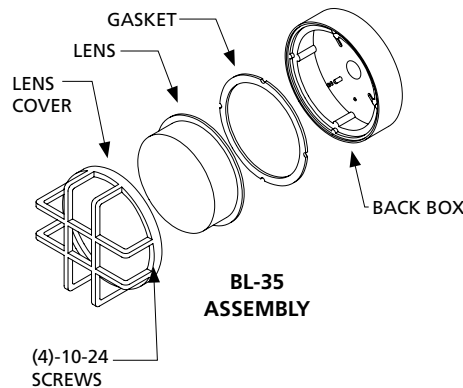
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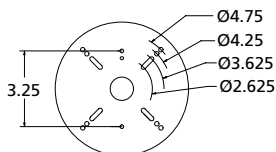
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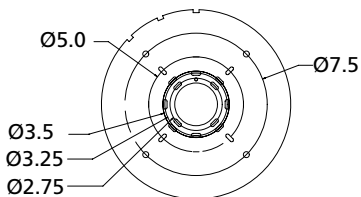
BL-38/39
BL-36/37
TYPICAL FIXTURE DIMENSIONS



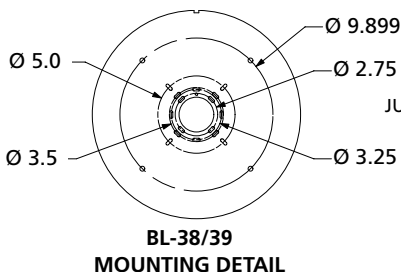
BL-35
ASSEMBLY



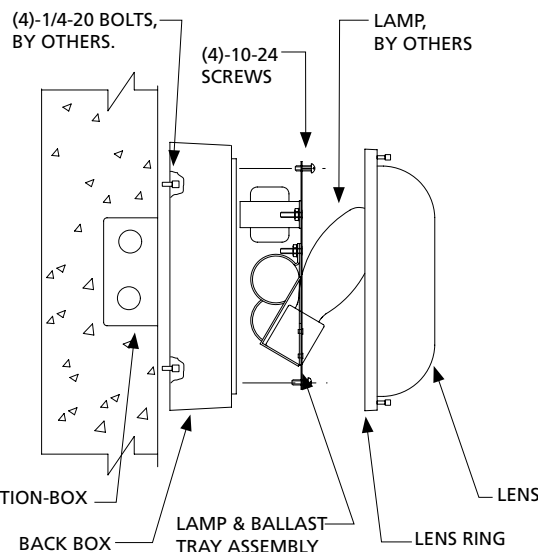
BL-35
MOUNTING DETAIL



BL-36/37
MOUNTING DETAIL



BL-38/39
MOUNTING DETAIL



TYPICAL WALL INSTALLATION

1. Remove the fixture from the box. Remove the lens and lens ring by loosening (4)-10-24 cap screws. Remove the ballast tray assembly by loosening (4)-10-24 screws.

1A. (BL-35 ONLY)
Remove the fixture from the box. Remove the lens and lens ring by loosening (4)-8-32 Phillips head screws. Remove the ballast tray assembly by loosening (3)-10-24 screws.

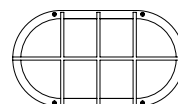
2. Secure the back box to the wall with (4)-1/4-20 bolts or to the junction box with 8-32 screws, hardware by others. (BL-35 use 8-32 screws as required) Make power and ground connection using UL approved connectors at the Junction-box (J-box by others). Reinstall the ballast tray with the (4)-10-24 screws provided.

3. (LAMP INSTALLATION)
Install the correct lamp type and wattage. Reinstall the lens and lens ring. Tighten the (4)-10-24 cap screws, (for the BL-35 use the Phillips head screws).

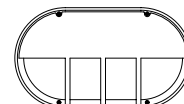
INSTALLATION SHEET

Safety, Warnings and Suggestions

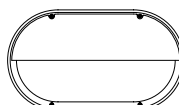
- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² **Make** sure that electrical power is disconnected before any work is performed.
- ³ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁴ **All** wiring and installation should meet local, state and national electrical codes.
- ⁵ **Install** correct lamp type and wattage.



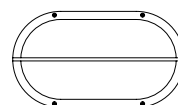
BL-44



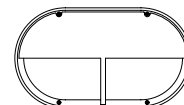
BL-45



BL-47



BL-48

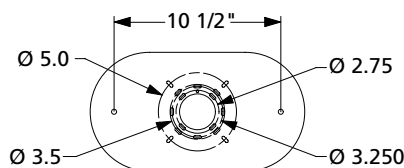


BL-49

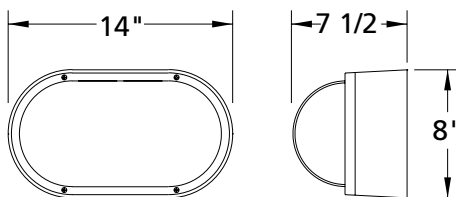
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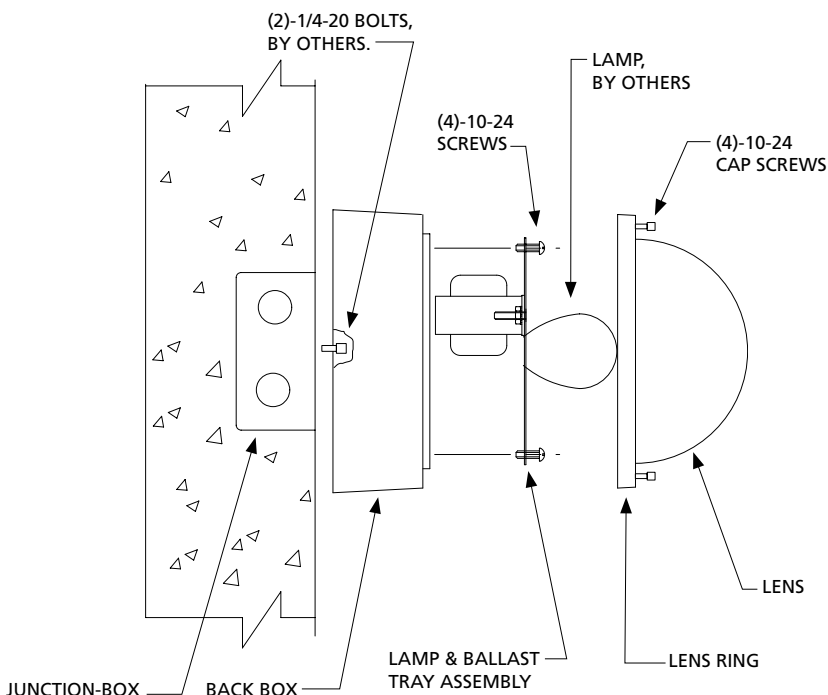
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BL-44 THRU 49
MOUNTING DETAIL



BL-44 THRU 49
TYPICAL FIXTURE DIMENSIONS



TYPICAL WALL INSTALLATION

1. Remove the fixture from the box. Remove the lens and lens ring by loosening (4)-10-24 cap screws. Remove the ballast tray assembly by loosening (4)-10-24 screws.

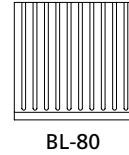
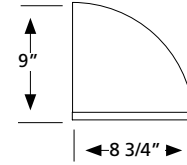
2. Secure the back box to the wall with (2)-1/4-20 bolts or to the junction box with 8-32 screws, hardware by others. Make power and ground connection using UL approved connectors at the Junction-box (J-box by others). Reinstall the ballast tray with the (2)-10-24 screws provided.

3. (LAMP INSTALLATION)
Install the correct lamp type and wattage. Reinstall the lens and lens ring. Tighten the (4)-10-24 cap screws.

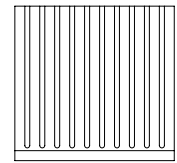
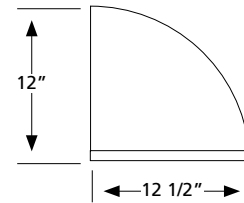
INSTALLATION SHEET

Safety, Warnings and Suggestions

- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² **Make** sure that electrical power is disconnected before any work is performed.
- ³ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁴ **All** wiring and installation should meet local, state and national electrical codes.
- ⁵ **Install** correct lamp type and wattage.



BL-80

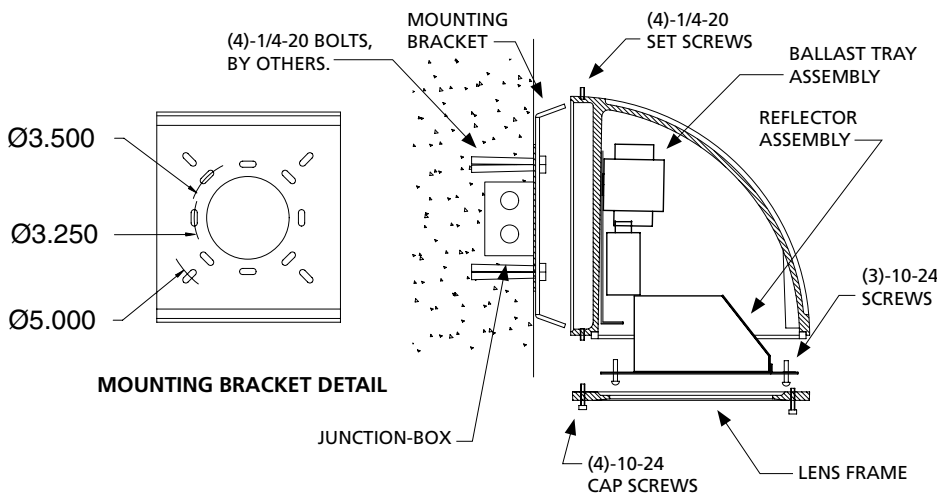


BL-81

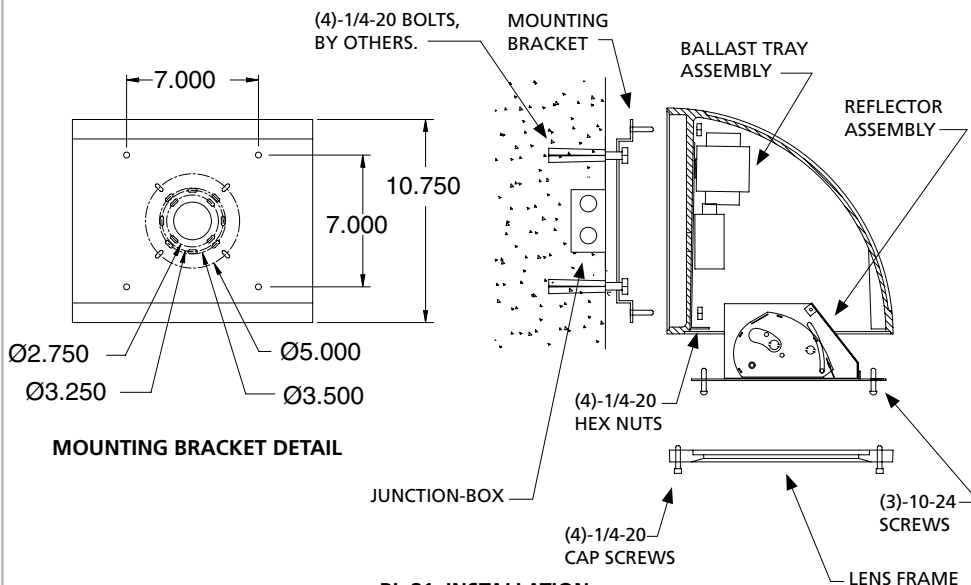
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BL-80 INSTALLATION



BL-81 INSTALLATION

1. (BL-80 ONLY)

Remove the fixture from the box and remove the wall plate by loosening (4)-1/4-20 set screws from the top and bottom of the cast housing. Secure the wall plate to the wall with (4)-1/4-20 bolts or to the junction box with 8-32 screws, hardware by others. Make power and ground connection using UL approved connectors at the Junction-box (J-box by others) then, reinstall the unit by mounting it over the wall plate, retightening the top and bottom set screws. See mounting detail.

2. (BL-81 ONLY)

Remove the fixture from the box and remove the lens frame by loosening (4)-1/4-20 cap screws. Remove the reflector assembly by loosening (3)-10-24 screws. Remove the wall plate by loosening (4)-1/4-20 hex nuts from the inside of the cast housing. Secure the wall plate to the wall with (4)-1/4-20 bolts, hardware by others. Make power and ground connection using UL approved connectors at the Junction-box (J-box by others), then reinstall the unit by mounting it to the wall plate and tightening the (4)-hex nuts. See mounting detail. Reinstall the reflector assembly with the (3)-10-24 screws provided.

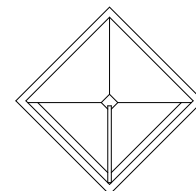
3. (LAMP INSTALLATION)

Install the correct lamp type and wattage. Reinstall the lens frame. Tighten the (4)-cap screws.

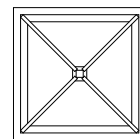
INSTALLATION SHEET

Safety, Warnings and Suggestions

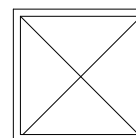
- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² **Make** sure that electrical power is disconnected before any work is performed.
- ³ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁴ **All** wiring and installation should meet local, state and national electrical codes.
- ⁵ **Install** correct lamp type and wattage.



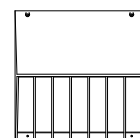
BL-85



BL-86



BL-87

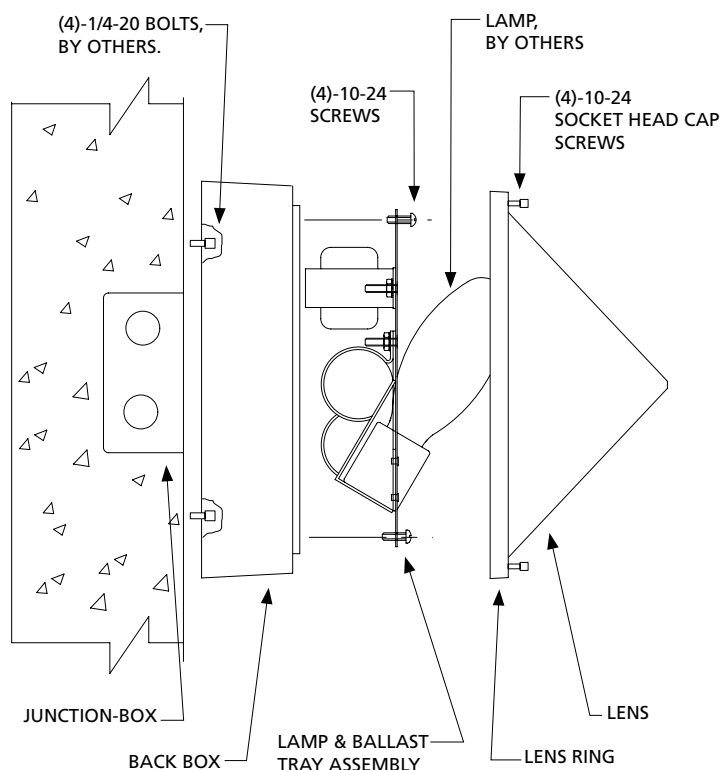


BL-89

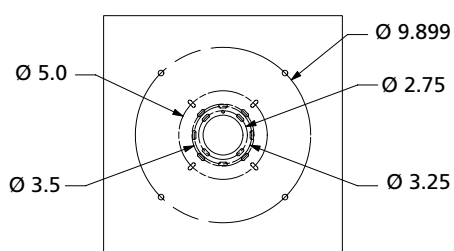
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TYPICAL WALL INSTALLATION



MOUNTING DETAIL

1. Remove the fixture from the box. Remove the lens and lens frame by loosening (4)-10-24 socket head cap screws. Remove the ballast tray assembly by loosening (4)-10-24 screws.

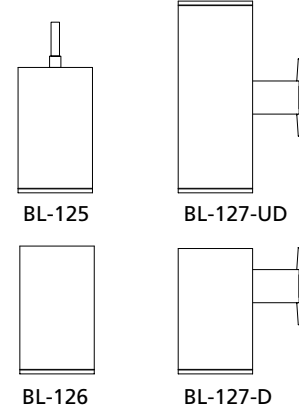
2. Secure the back box to the wall with (4)-1/4-20 bolts or to the junction box with 8-32 screws, hardware by others. Make power and ground connection using UL approved connectors at the Junction-box (J-box by others). Reinstall the ballast tray with the (4)-10-24 screws provided (See step 3)

3. (LAMP INSTALLATION)
Install the correct lamp type and wattage. Reinstall the lens and lens frame. Tighten the (4)-10-24 socket head cap screws.

INSTALLATION SHEET

Safety, Warnings and Suggestions

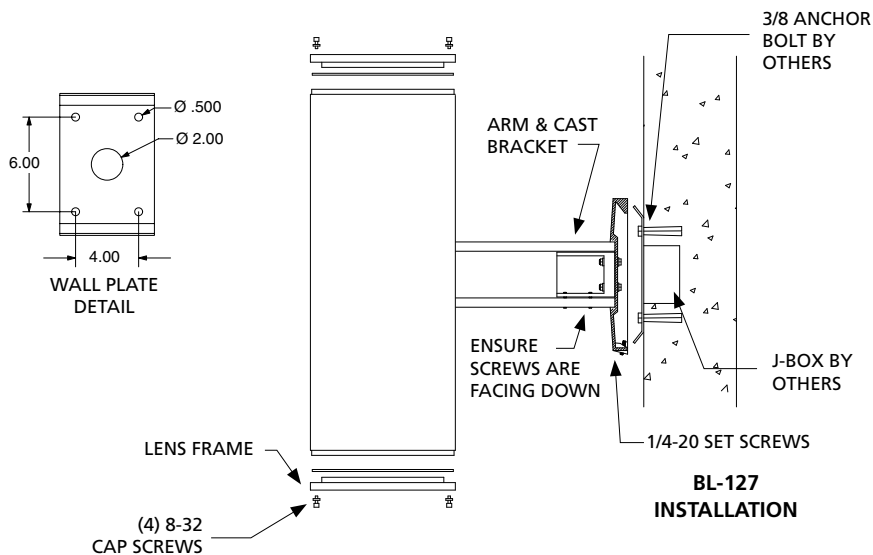
- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² **Make** sure that electrical power is disconnected before any work is performed.
- ³ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁴ **All** wiring and installation should meet local, state and national electrical codes.
- ⁵ **Install** correct lamp type and wattage.



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1. (BL-127 CAST BRACKET INSTALLATION)

Remove the fixture from the box and remove the wall plate by loosening (2)-1/4-20 set screws from the bottom of the cast cover. Secure the wall plate to the wall with (4)-3/8 bolts or anchor bolts (hardware by others). Reinstall the unit by mounting it over the wall plate and retightening the bottom set screws.

1. (BL-125 PENDANT INSTALLATION)

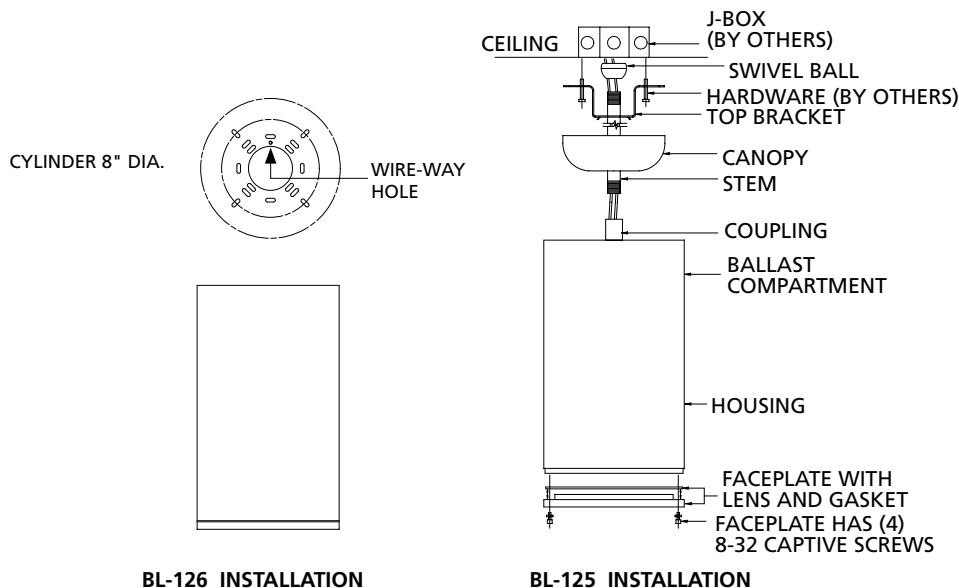
Remove the fixture from the box. Secure the canopy assembly to the junction box. Run the wiring through the stem and thread the stem to the coupling on top of the fixture and tighten the set screw on the coupling. Mount the assembled stem and fixture over the canopy hook bracket. Make power and ground connection using UL approved connectors inside the J-box. Secure the canopy cover to the top bracket.

1. (BL-126 SURFACE INSTALLATION)

Remove the fixture from the box. Remove lens frame assembly, lamp/reflector assembly and ballast assembly. Make power and ground connection using UL approved connectors inside the J-box. Secure the fixture to the surface using screws by others. Reinstall the ballast, lamp/reflector and lens frame assemblies.

2. (LAMP INSTALLATION)

Access the lamp by loosening (4)-8-32 captive cap screws. Remove the cover and install the proper lamp. Reinstall the cover and re-tighten the 8-32 captive cap screws.



INSTALLATION SHEET

Safety, Warnings and Suggestions

- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² **Make** sure that electrical power is disconnected before any work is performed.
- ³ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁴ **All** wiring and installation should meet local, state and national electrical codes.
- ⁵ **Install** correct lamp type and wattage.
- ⁶ **Never** install pendant bracket with access opening facing down slope. See Figure D.

LENS REMOVAL & INSTALLATION

The lens ring incorporates eight captive ¼-20 cap screws. Loosen all eight screws slightly. Loosen six screws completely leaving the last two 180° apart. Fully loosen one of the remaining screws while holding up the lens ring. Fully loosen the last screw and remove the lens ring and lens. To reinstall the lens ring and lens reverse the order above and tighten as shown in figure E.

REFLECTOR/LAMP ASSEMBLY REMOVAL & INSTALLATION

The reflector assembly incorporates four captive truss head screws. Loosen all four screws slightly. Fully loosen three screws. Fully loosen the last screw while holding up reflector assembly. Remove the reflector assembly and disconnect the wires. To reinstall the reflector assembly reverse the order above.

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4" junction box and 5-3/4" bolt circle
Figure A



Hang straight bracket and pendant
Figure B



Canopy covering pendant assembly
Figure C

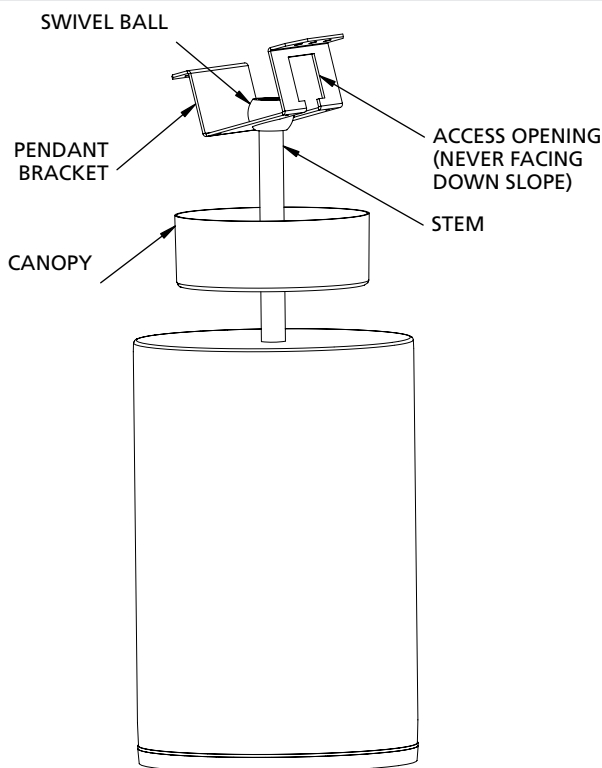


Figure D

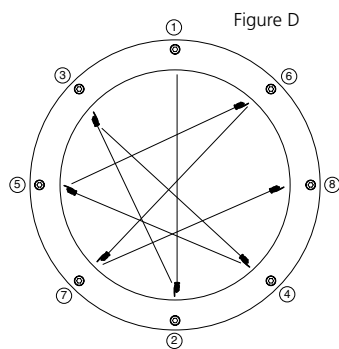


Figure E

Use several rotations of the following sequence to tighten the lens ring screws, to 40 in/lbs. max.

1. During construction of ceiling, install the 2x4 support studs as shown in Figure A on both sides of junction box.

2. After ceiling surface is in place, place template over junction box, mark the appropriate hole locations, and drill pilot holes for 3/8" lag bolts or hanger bolts. (supplied by others)

3. Place pendant bracket over junction box and install 3/8" lag bolts or hanger bolts. See Figure B. (supplied by others)
Note: Bolts must be long enough to securely fasten the pendant bracket to the 2x4 support studs. Warning: If mounting on a sloped ceiling the access opening of the pendant bracket must never be facing down slope (see figure D).

4. Route wires thru canopy and stem, and thread stem into fixture using Red Loctite.

5. Hang assembled stem and fixture on pendant bracket. Caution: Be careful not to pinch wires during hanging. Align groove on swivel ball with tab on pendant bracket.

6. Make wire connections and fasten canopy. See Figure C.

BALLAST TRAY ASSEMBLY REMOVAL & INSTALLATION

The ballast tray assembly incorporates three truss head screws and one captive thumbscrew. Loosen the three truss head screws one to two turns each. Fully loosen the thumbscrew and grasp the handle. Rotate and remove the ballast tray assembly. Disconnect the power and ground wires. Caution: Be careful not to pinch wires during removal. To reinstall the ballast tray assembly reverse the order above.

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INSTALLATION SHEET

Safety, Warnings and Suggestions

- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² **Make** sure that electrical power is disconnected before any work is performed.
- ³ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁴ **All** wiring and installation should meet local, state and national electrical codes.
- ⁵ **Install** correct lamp type and wattage.
- ⁶ **Fixture** must not be installed on a combustible surface.

LENS REMOVAL & INSTALLATION

The lens ring incorporates eight captive ¼-20 cap screws. Loosen all eight screws slightly. Loosen six screws completely leaving the last two 180° apart. Fully loosen one of the remaining screws while holding up the lens ring. Fully loosen the last screw and remove the lens ring and lens. To reinstall the lens ring and lens reverse the order above and tighten as shown in figure B.

REFLECTOR/LAMP ASSEMBLY REMOVAL & INSTALLATION

The reflector assembly incorporates four captive truss head screws. Loosen all four screws slightly. Fully loosen three screws. Fully loosen the last screw while holding up reflector assembly. Remove the reflector assembly and disconnect the wires. To reinstall the reflector assembly reverse the order above.

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4" junction box and 8" bolt circle
Figure A

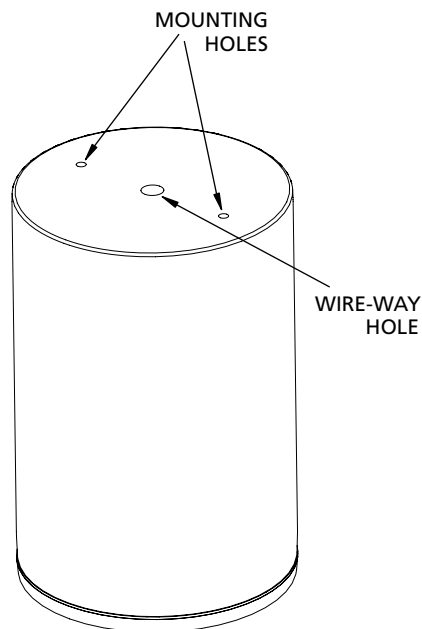


Figure C

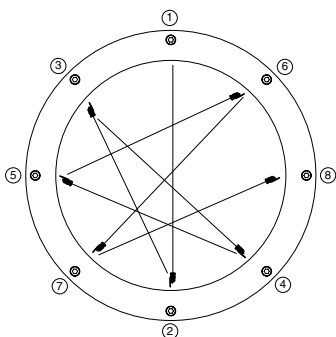


Figure B

Use several rotations of the following sequence to tighten the lens ring screws, to 40 in/lbs. max.

1. During construction of ceiling, install 2x4 support studs on both sides of junction box as shown in Figure A.
2. After ceiling surface is in place, place template over junction box, mark the appropriate hole locations, and drill pilot holes for 3/8" hanger bolts. (supplied by others)
3. Install 3/8" hanger bolts into pilot holes. (supplied by others) Note: Hanger bolts must be long enough to securely fasten the fixture to the 2x4 support studs and must protrude 1-1/2" below the finished ceiling surface.
4. Prepare fixture for mounting by removing lens, reflector/lamp assembly, and ballast tray assembly (see instructions above and below).
5. Install fixture onto hanger bolts while routing wires from junction box thru top of fixture. Fasten using flat washers, lock washers and hex nuts. (supplied by others)
6. Make wire connections inside housing. Reinstall ballast tray assembly, reflector/lamp assembly and lens assembly.

BALLAST TRAY ASSEMBLY REMOVAL & INSTALLATION

The ballast tray assembly incorporates three truss head screws and one captive thumbscrew. Loosen the three truss head screws one to two turns each. Fully loosen the thumbscrew and grasp the handle. Rotate and remove the ballast tray assembly. Disconnect the power and ground wires. Caution: Be careful not to pinch wires during removal. To reinstall the ballast tray assembly reverse the order above.

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INSTALLATION SHEET

Safety, Warnings and Suggestions

- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² **Make** sure that electrical power is disconnected before any work is performed.
- ³ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁴ **All** wiring and installation should meet local, state and national electrical codes.
- ⁵ **Install** correct lamp type and wattage.

LENS REMOVAL & INSTALLATION

The lens ring incorporates eight captive ¼-20 cap screws. Loosen all eight screws slightly. Loosen six screws completely leaving the last two 180° apart. Fully loosen one of the remaining screws while holding up the lens ring. Fully loosen the last screw and remove the lens ring and lens. To reinstall the lens ring and lens reverse the order above and tighten as shown in figure E.

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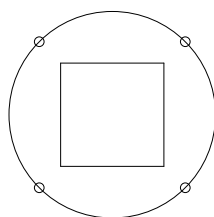
4" square j box and 8" bolt circle
 Figure A



Surface dry wall or other treatment
 Figure B



Cast cover and extruded arm
 Figure C



8" Dia. Bolt Circle

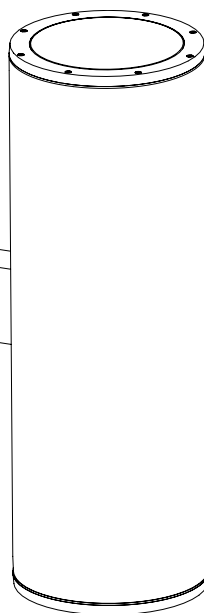
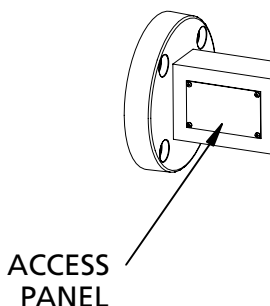


Figure D

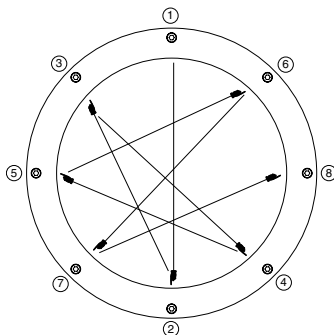


Figure E

Use several rotations of the following sequence to tighten the lens ring screws, to 40 in/lbs. max.

1. During construction of wall, install 2x4 support studs on both sides of junction box as shown in Figure A.
2. After wall surface is in place, (see Figure B) place template over junction box, mark the appropriate hole locations, and drill pilot holes for 3/8" lag bolts or hanger bolts. (supplied by others)
3. Remove access panel from arm (see figure D) and allow wires from fixture to hang outside arm. Route wires from junction box into fixture and let hang outside arm.
4. Attach fixture to wall with 3/8" lag bolts or hanger bolts. (See Figure C) Note: Bolts must be long enough to securely fasten the fixture to the 2x4 support studs. (supplied by others)
5. Make wire connections and reinstall access panel.

BALLAST TRAY ASSEMBLY REMOVAL & INSTALLATION

The ballast tray assembly incorporates three truss head screws and one captive thumbscrew. Loosen the three truss head screws one to two turns each. Fully loosen the thumbscrew and grasp the handle. Rotate and remove the ballast tray assembly. Disconnect the power and ground wires. Caution: Be careful not to pinch wires during removal. To reinstall the ballast tray assembly reverse the order above.

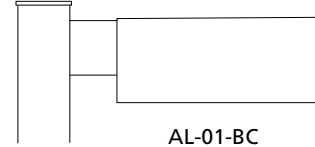
REFLECTOR/LAMP ASSEMBLY REMOVAL & INSTALLATION

The reflector assembly incorporates four captive truss head screws. Loosen all four screws slightly. Fully loosen three screws. Fully loosen the last screw while holding up reflector assembly. Remove the reflector assembly and disconnect the wires. To reinstall the reflector assembly reverse the order above.

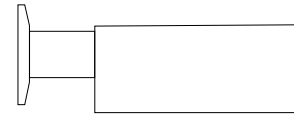
AL-01 CONCEALED ARM (BC)/ CAST WALL BRACKET(CWB) INSTALLATION SHEET

Safety, Warnings and Suggestions

- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² **Make** sure that electrical power is disconnected before any work is performed.
- ³ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁴ **All** wiring and installation should meet local, state and national electrical codes.
- ⁵ **Install** correct lamp type and wattage.



AL-01-BC

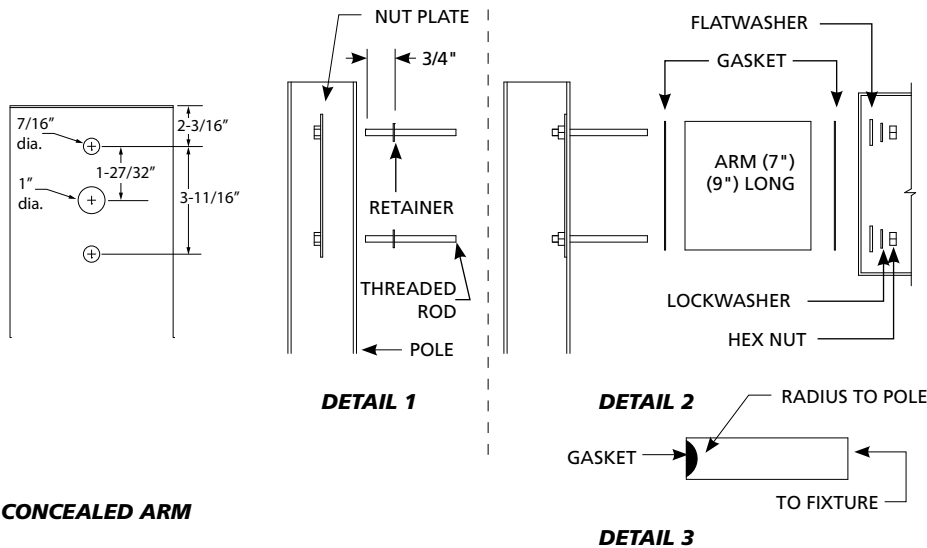


AL-01-CWB

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1. (Concealed Arm) Add retainers to both rods. Position retainer about $\frac{3}{4}$ " from the end of each threaded rod (Detail 1).

2. Insert the end of one rod into the bottom mounting hole of pole. While holding the nut plate in position inside the pole, thread the rod into the nut plate until the retainer is snug against the pole. Thread top rod into nut plate equally.

3. Slide arm over rods (radius against pole Detail 3).

4. Feed the electrical wires of the fixture through the arm and out the top of the pole.

5. Position fixture over rods. Secure fixture to arm assembly with flat washers, lock washers and hex nuts. (See Detail 2).

Important: The rods must be properly pre-tensioned. Torque nuts to 10Ft-lbs. Then turn the nuts an additional $\frac{1}{8}$ turn for the 2-1/2" arm, $\frac{1}{2}$ turn for the 13-1/2" arm and $\frac{3}{4}$ turn for the 16" arm.

6. Connect wires black to black, white to white and green to ground.

7. Install proper type and wattage of lamp.

1. (Cast Wall Bracket) Secure mounting plate to wall (plate must be flat and level).

2. Make sure gaskets are placed on fixture and cast bracket cover.

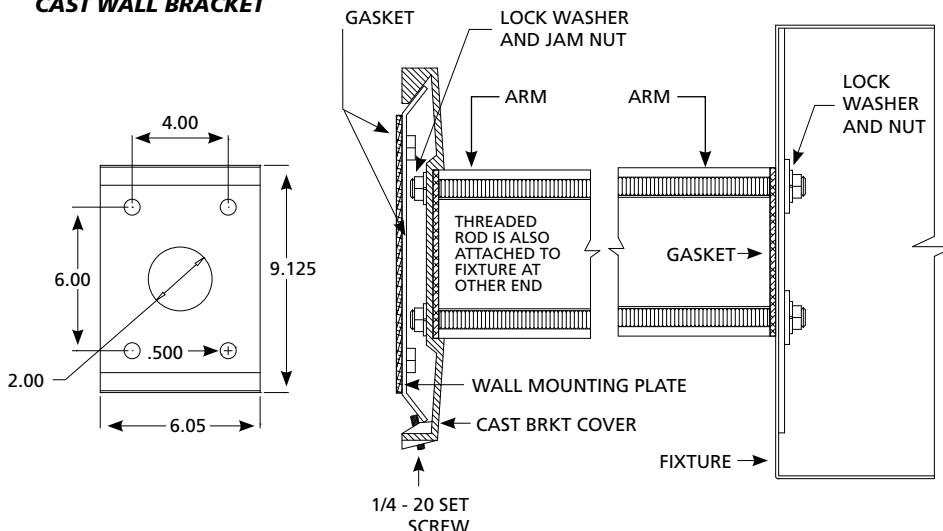
3. Attach threaded rod to cast bracket cover by using lock washers and jam nuts.

4. Slide arm over threaded rods.

5. Feed fixture wires through arm and cast bracket cover. Insert threaded rods into fixture housing and attach using washers, lock washers and nuts. Tighten securely.

6. After making all electrical connections hook cast bracket cover over wall mounting plate and secure bracket cover using $\frac{1}{4}$ -20 set screws.

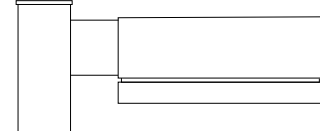
CAST WALL BRACKET



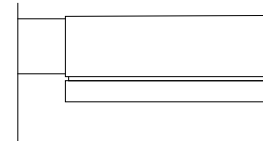
AL-18 CONCEALED ARM (BC) CAST WALL BRACKET (CWB) INSTALLATION SHEET

Safety, Warnings and Suggestions

- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² **Make** sure that electrical power is disconnected before any work is performed.
- ³ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁴ **All** wiring and installation should meet local, state and national electrical codes.
- ⁵ **Install** correct lamp type and wattage.



AL-18-BC

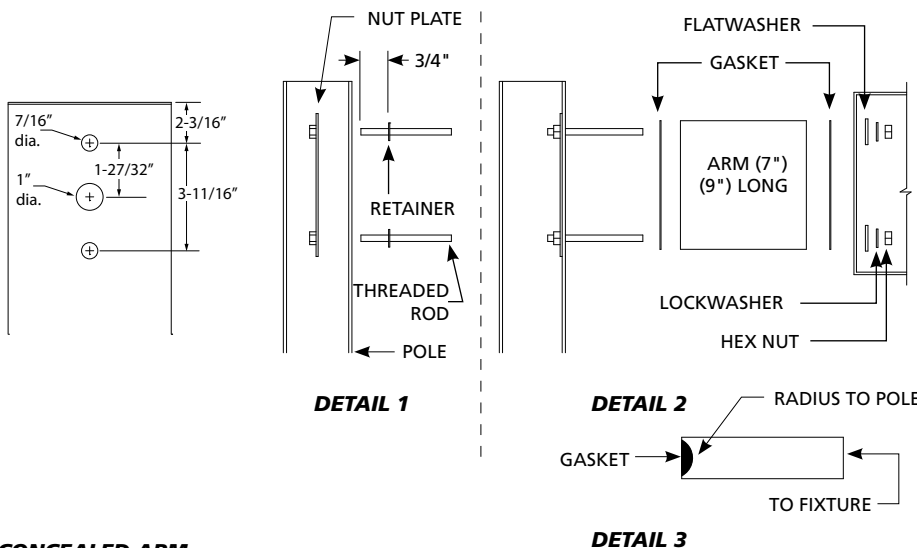


AL-18-CWB

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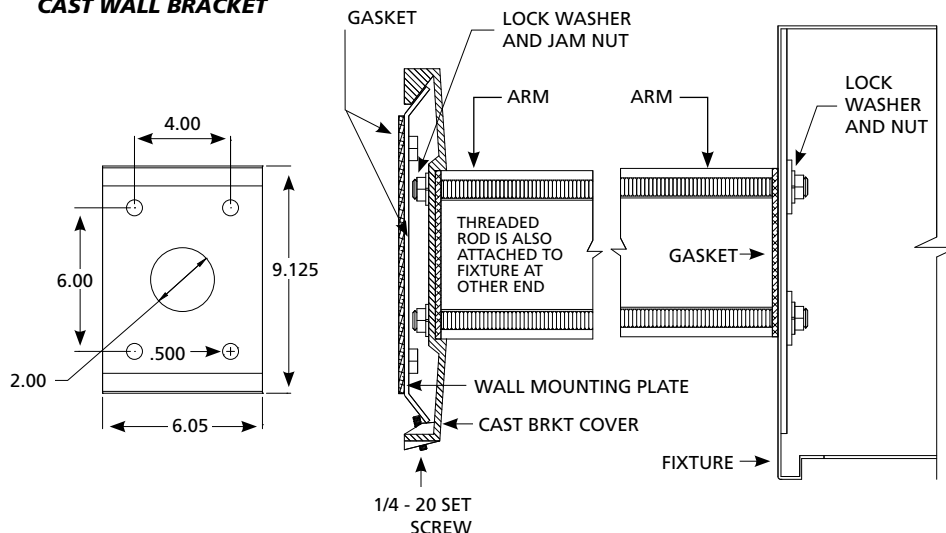
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CONCEALED ARM

CAST WALL BRACKET



1. (Concealed Arm) Add retainers to both rods. Position retainer about $\frac{3}{4}$ " from the end of each threaded rod (Detail 1).

2. Insert the end of one rod into the bottom mounting hole of pole. While holding the nut plate in position inside the pole, thread the rod into the nut plate until the retainer is snug against the pole. Thread top rod into nut plate equally.

3. Slide arm over rods (radius against pole Detail 3).

4. Feed the electrical wires of the fixture through the arm and out the top of the pole.

5. Position fixture over rods. Secure fixture to arm assembly with flat washers, lock washers and hex nuts. (See Detail 2).

Important: The rods must be properly pre-tensioned. Torque nuts to 10Ft-lbs. Then turn the nuts an additional $\frac{1}{8}$ turn for the $2\frac{1}{2}$ " arm, $\frac{1}{2}$ turn for the $13\frac{1}{2}$ " arm and $\frac{3}{4}$ turn for the 16" arm.

6. Connect wires black to black, white to white and green to ground.

7. Install proper type and wattage of lamp.

1. (Cast Wall Bracket) Secure mounting plate to wall (plate must be flat and level).

2. Make sure gaskets are placed on fixture and cast bracket cover.

3. Attach threaded rod to cast bracket cover by using lock washers and jam nuts.

4. Slide arm over threaded rods.

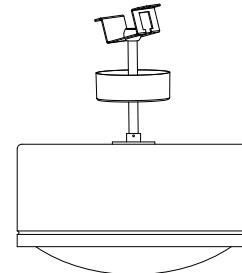
5. Feed fixture wires through arm and cast bracket cover. Insert threaded rods into fixture housing and attach using washers, lock washers and nuts. Tighten securely.

6. After making all electrical connections hook cast bracket cover over wall mounting plate and secure bracket cover using $\frac{1}{4}$ -20 set screws.

INSTALLATION SHEET

Safety, Warnings and Suggestions

- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² **Make** sure that electrical power is disconnected before any work is performed.
- ³ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁴ **All** wiring and installation should meet local, state and national electrical codes.
- ⁵ **Install** correct lamp type and wattage.

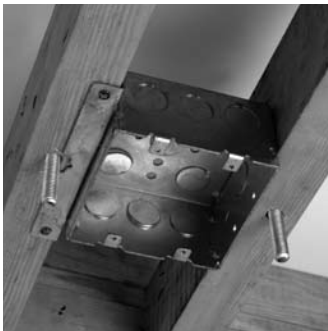


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4" junction box and 5-3/4" bolt circle
Figure A



Hang straight bracket and pendant
Figure B



Canopy covering pendant assembly
Figure C

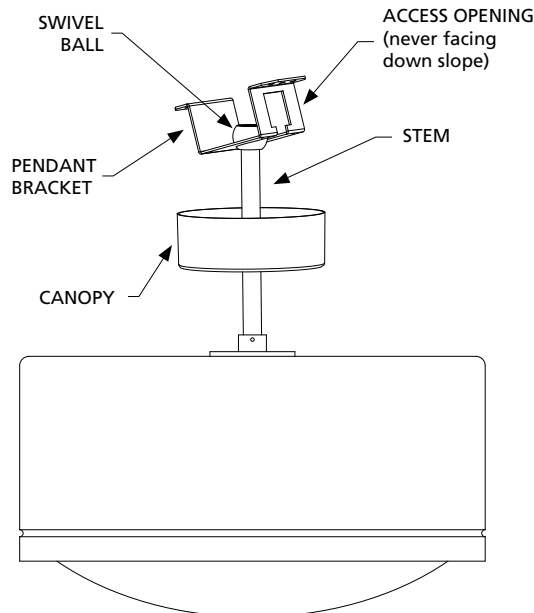


Figure D

1. During construction of ceiling, install the 2x4 support studs as shown in Figure A on both sides of junction box.

2. After ceiling surface is in place, place template over junction box, mark the appropriate hole locations, and drill pilot holes for 3/8" lag bolts or hanger bolts. (supplied by others)

3. Place pendant bracket over junction box and install 3/8" lag bolts or hanger bolts. See Figure B. (supplied by others) Note: Bolts must be long enough to securely fasten the pendant bracket to the 2x4 support studs. Warning: If mounting on a sloped ceiling the access opening of the pendant bracket must never be facing down slope (see figure D).

4. Route wires thru canopy and stem, and thread stem into fixture using Red Loctite.

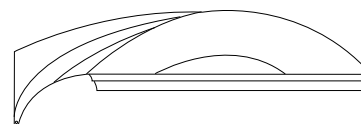
5. Hang assembled stem and fixture on pendant bracket. Caution: Be careful not to pinch wires during hanging. Align groove on swivel ball with tab on pendant bracket.

6. Make wire connections and fasten canopy. See Figure C.

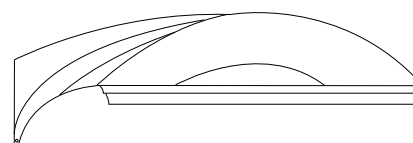
INSTALLATION SHEET

Safety, Warnings and Suggestions

- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² **Make** sure that electrical power is disconnected before any work is performed.
- ³ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁴ **All** wiring and installation should meet local, state and national electrical codes.
- ⁵ **Install** correct lamp type and wattage.



AL-310

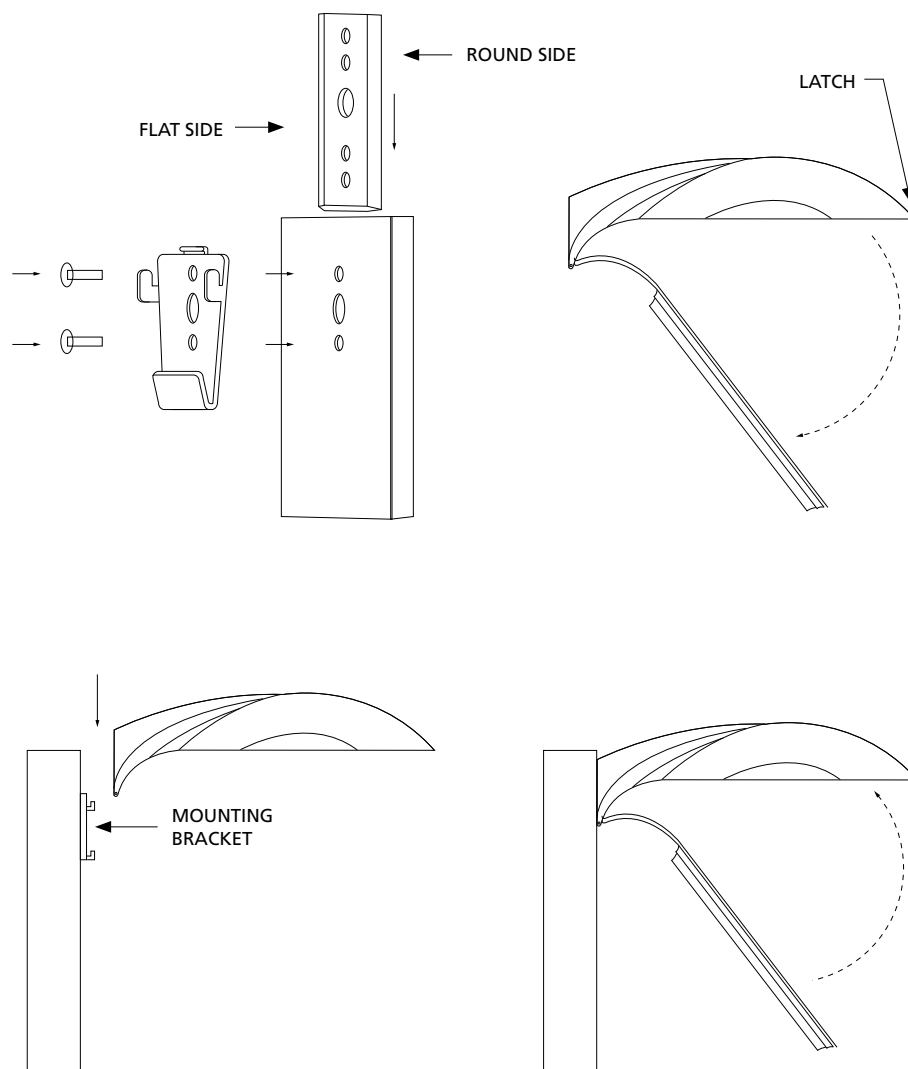


AL-311

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1. Take special note to the shape of the back plate. There is a flat side and a round side. This is to allow for both square and round poles. Make sure the back plate is properly mounted in accordance with the shape of the pole. NOTE: round pole requires round pole adapter.

2. Place flat side of the plate inside the wall of the pole.

3. While holding the back plate in place, place the top bolt thru the pole and begin threading it into the back plate. Once the bolt has been started you may release the back plate. Do not fully tighten down the first bolt until after the second bolt is started. This will allow for any necessary movement that would be required. Once the second bolt is started, fully tighten both bolts.

4. Open and remove the lens frame to the fixture. Pull the bottom of the latch forward to open the lens frame. Release the hinge by compressing the hinge pins using the finger grips. Take special care to the reflector optics once the lens frame has been removed.

5. Secure the mounting bracket to the pole. The fixture hangs on the mounting bracket hooks. Use the bolt to tighten down the housing to the mounting bracket. WARNING: Bolt must be securely locked in place to ensure the structural integrity of the housing to the pole.

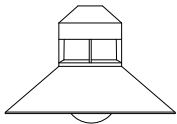
6. Install the ballast tray into the housing align hinge slots on electronic tray with hinge hooks on fixture housing. Connect supply wire and socket wire to the quick connects on the electronics tray. Close the ballast tray by pivoting tray up till the spring latch clicks in place.

7. Attach the lens frame to the housing and swing lens frame up to closed position making sure the hinge pins snap back into the holes properly and the lens frame is flush to the housing.

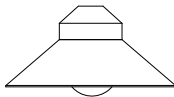
INSTALLATION SHEET

Safety, Warnings and Suggestions

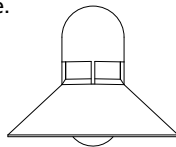
- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ³ **Make** sure that electrical power is disconnected before any work is performed.
- ⁴ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁵ **All** wiring and installation should meet local, state and national electrical codes.
- ⁶ **Install** correct lamp type and wattage.



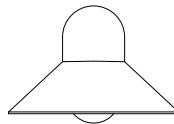
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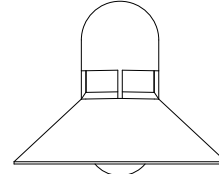
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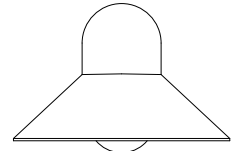
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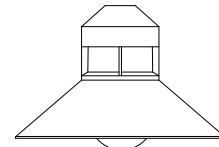
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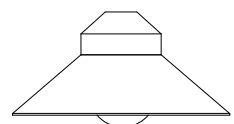
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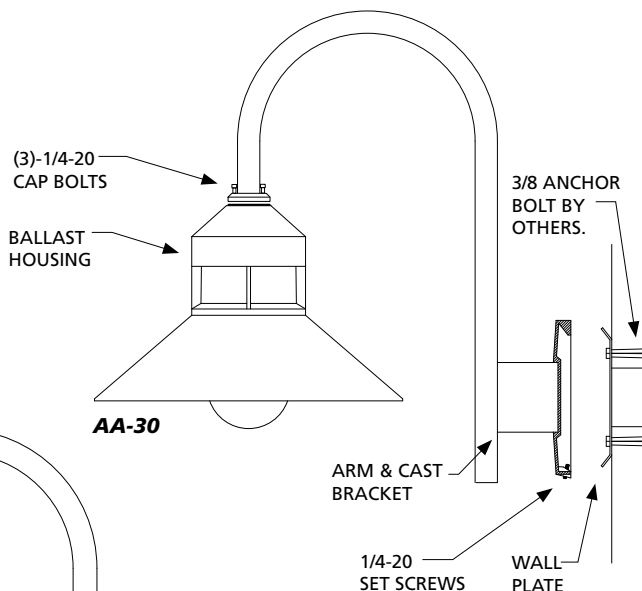


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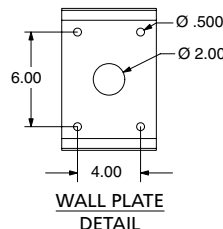
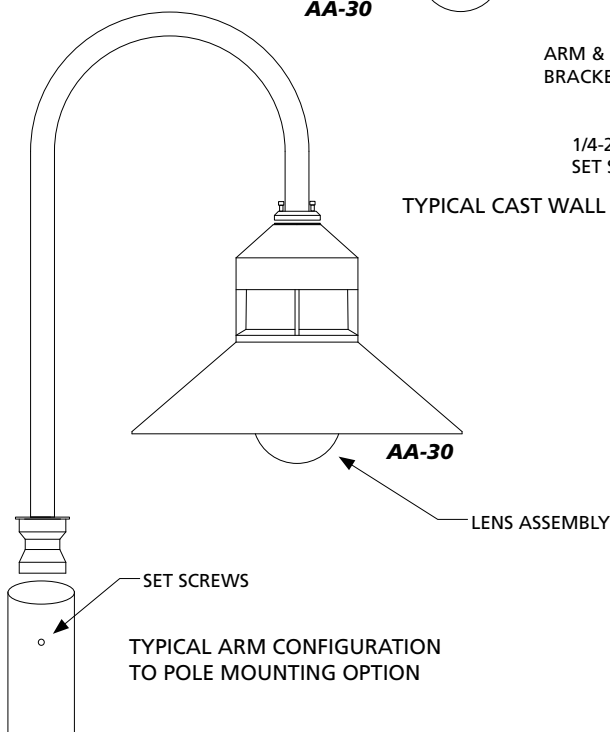
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TYPICAL CAST WALL BRACKET INSTALLATION



1. (ARM INSTALLATION) Remove the fixture and the arm assembly from the box. Remove (3)-1/4-20 cap screws from the top of the fixture. Make all necessary electrical connections from fixture to arm and push the wire nuts into the housing. Secure the fixture to the arm with the (3) bolts. Now mount the arm assembly to the pole or tenon (See step 3). Orient the arm assembly as desired and tighten all the set screws. Drill and tap the tenon or pole to accept a 3/8-hex bolt. The bolt is used to prevent wind milling.

2. (CAST BRACKET INSTALLATION) Remove the fixture and arm assembly from the box. Remove (3)-1/4-20 cap screws from the top of the fixture. Make all necessary electrical connections from fixture to arm and push the wire nuts into the housing. Secure the fixture to the arm with the (3) bolts. Remove the wall plate from the arm assembly by loosening (2)-1/4-20 set screws from the bottom of the cast cover. Secure the wall plate to the wall with (4)-3/8 bolts or anchor bolts (hardware by others). (See step 3) Reinstall the unit by mounting it over the wall plate and retightening the set screws at the bottom of the cast bracket.

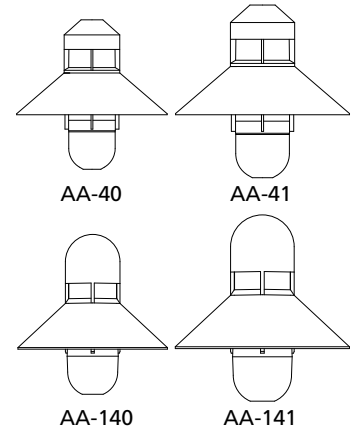
3. Make power and ground connections using UL approved connectors at the pole, splice connection or J-box (J-box by others).

4. (LAMP INSTALLATION) Remove the lens assembly by loosening (4)-10-24 screws. Install the correct lamp, reinstall the lens assembly, and retighten the screws.

INSTALLATION SHEET

Safety, Warnings and Suggestions

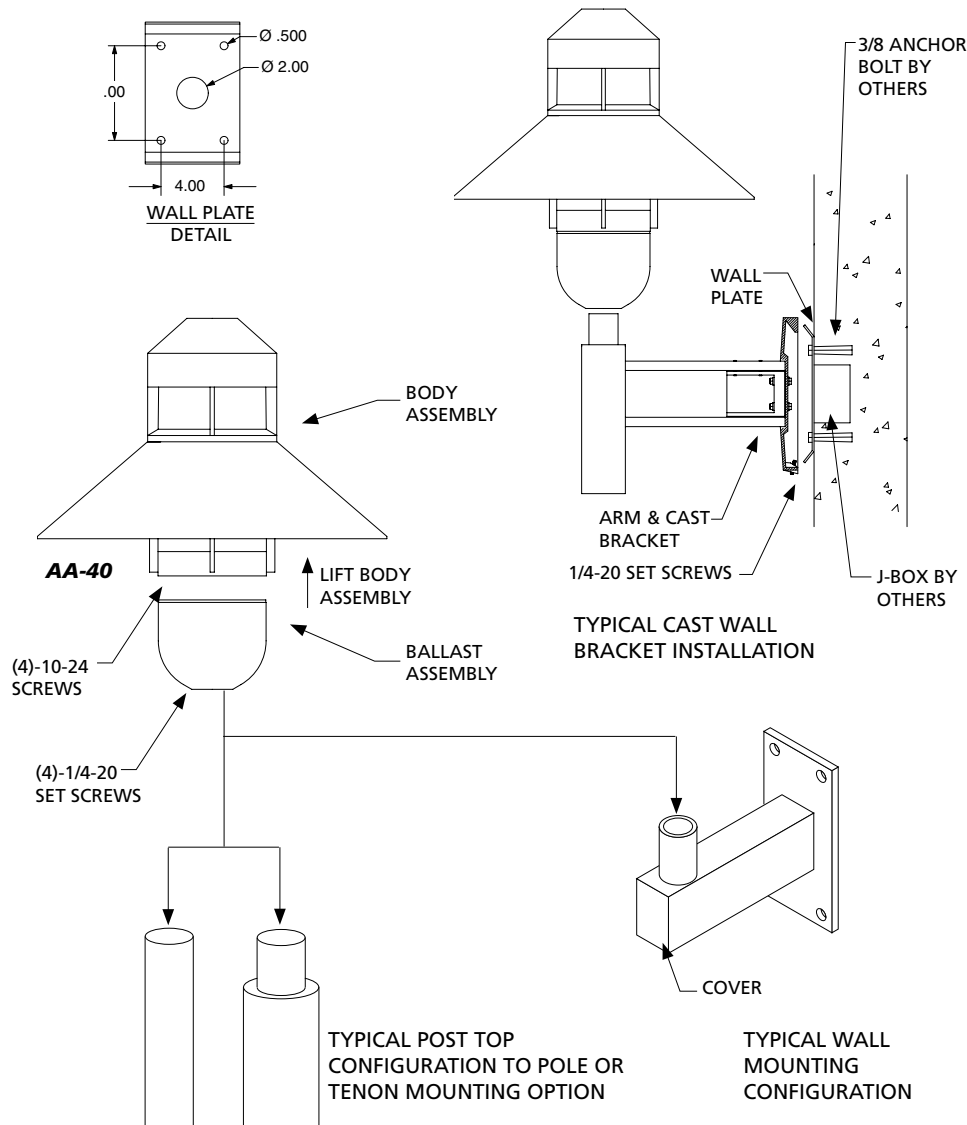
- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ³ **Make** sure that electrical power is disconnected before any work is performed.
- ⁴ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁵ **All** wiring and installation should meet local, state and national electrical codes.
- ⁶ **Install** correct lamp type and wattage.



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1. (POST TOP INSTALLATION)

Remove the fixture from the box. Loosen (4)-1/4-20 set screws from ballast housing. Mount the fixture to the pole or tenon (See step 3). Orient the fixture as desired and tighten all the set screws.

1-A. Remove the body assembly by removing (4)-10-24 flat Phillips screws. Carefully lift the body assembly and set aside. Install the correct lamp, reinstall the body assembly and tighten the 4-screws.

2. (CAST BRACKET INSTALLATION)

Remove the fixture from the box. Loosen (4)-1/4-20 set screws from the ballast housing. Remove the wall plate from the arm assembly by loosening (2)-1/4-20 set screws from the bottom of the cast cover. Secure the wall plate to the wall with (4)-3/8 bolts or anchor bolts (hardware by others). (See step 3) Reinstall the arm assembly by mounting it over the wall plate and retightening the set screws at the bottom of the cast bracket. Mount the fixture to the tenon (See step 3). Orient the fixture as desired and tighten all the set screws.

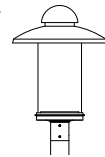
2-A. Remove the body assembly by removing (4)-10-24 flat Phillips screws. Carefully lift the body assembly and set aside. Install the correct lamp, reinstall the body assembly and tighten the 4-screws.

3. Make power and ground connections using UL approved connectors at the pole, splice connection or J-box (J-box by others).

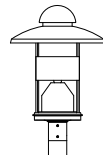
INSTALLATION SHEET

Safety, Warnings and Suggestions

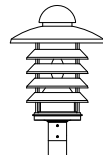
- ¹ **Care** should be taken not to position fixtures in locations where bare skin can come into contact with the potentially high temperatures on the lens.
- ² **Avoid** installing fixtures in locations where water collects and stands for prolonged periods.
- ³ **Make** sure that electrical power is disconnected before any work is performed.
- ⁴ **All** gaskets and sealing surfaces must be kept clean during installation.
- ⁵ **All** wiring and installation should meet local, state and national electrical codes.
- ⁶ **Install** correct lamp type and wattage.



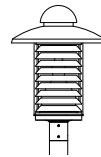
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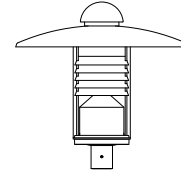
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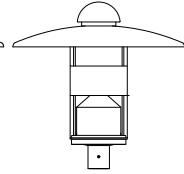
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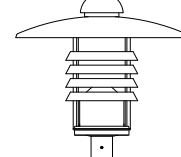
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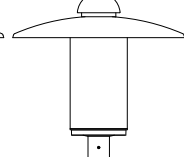
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AA-105-CLB



AA-105-ECLR



AA-105-O

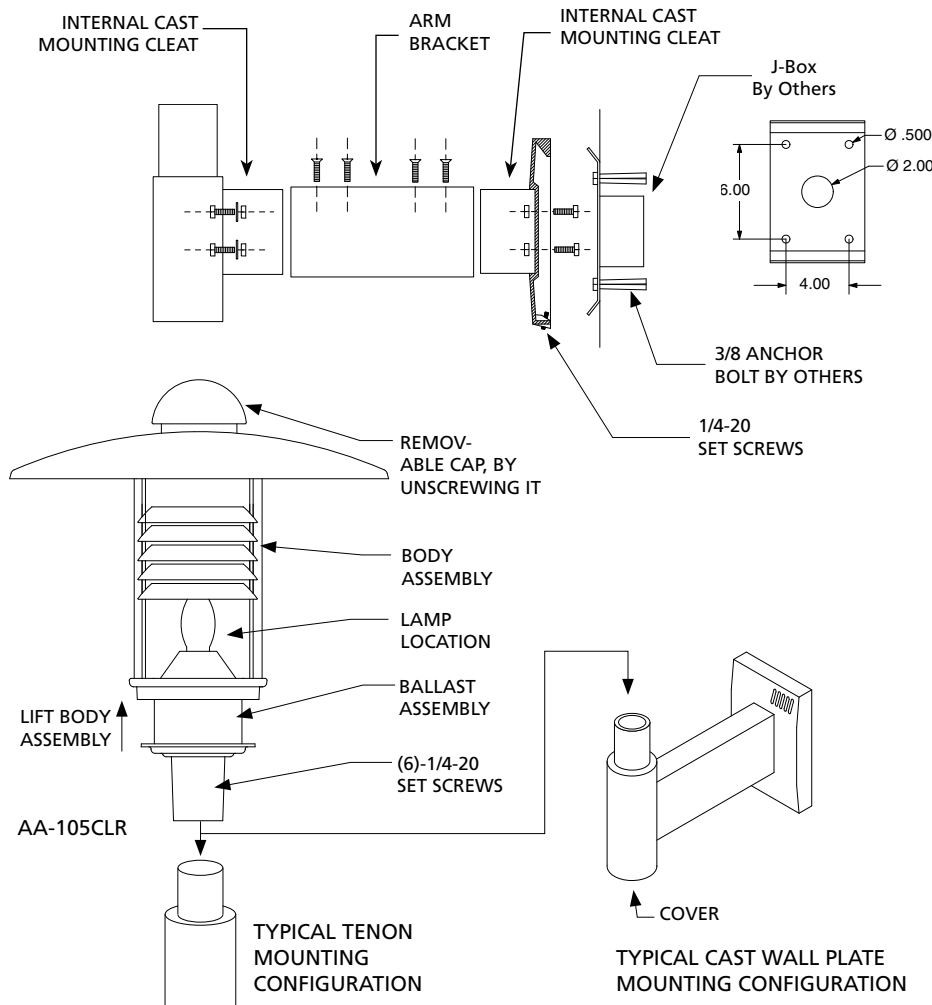
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CAST WALL PLATE INSTALLATION DETAIL

AA-105 USED FOR EXAMPLE



1. (POST TOP INSTALLATION)

Remove the fixture from the box. Loosen (6) 1/4-20 set screws from tenon fitter. Mount the fixture to the tenon on the pole or wall bracket. Make power and ground connections using UL approved connectors at the pole or tenon. Orient the fixture as desired and tighten all the set screws.

2. (CAST BRACKET INSTALLATION)

Remove the fixture from the box and remove the wall plate by loosening (2) 1/4-20 set screws from the bottom of the cast cover. Secure the wall plate to the wall with (4) 3/8 bolts or anchor bolts (hardware by others). (See step 3) Reinstall the unit by mounting it over the wall plate and retightening the set screws at the bottom of the cast bracket.

3. Make power and ground connections using UL approved connectors at the J-box (J-box by others).

4. Access the lamp by loosening (3) 10-24 cap screws from the bottom of the ballast assembly. Lift the body assembly as shown. Install the correct lamp and reinstall the body assembly. Retighten the cap screws.

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