



COMMERCIAL

FIXTURES

BUYER'S GUIDE



CONTENTS

SIMKAR makes it easy for you to order the right choice for your commercial applications using the pages of this, our new commercial catalog. We offer a broad selection of fixtures, all designed with one purpose in mind: to make your job easy as 1 – 2 – 3.

Take a look at our popular and award-winning products. For example, the TDPW Direct/Indirect Lay-in Anjelus on page 7.

Or our shallow-plenum TE3P Parabolic that meets RP 1, on pages 17 and 18. We also have a full line of strips with patented flip-up sockets that are prewired to save time and money.

From direct/indirect to T5 technology, SIMKAR provides the fixtures you want, in the quantities you want — when you want them.

SIMKAR. Service at the speed of light.

Architectural	LDI Direct/Indirect NEW!	4
	SLPM Low Profile Pendant NEW!	5
	P2000 Glare Reducing Pendant	6
	TDPW Anjelus Direct/Indirect NEW!	7
	TFR Lay-in Troffer NEW!	8
	JS, JW Vision Saver Glare Reducing Fixtures	9
	TWW Lay-in Wall Washer	10
	COV Cove Elite Twin Tube Indirect	11
	SMC, SMCLP Clouds and SMCW Mini Clouds NEW!	12
	WECN, WECW Bathbars and Sconce	13
Parabolic	TE2P Series Precision Parabolic	14
	TEP, FEP Series Deep Cell Parabolic	16
	TE3P Low Brightness VDT Parabolic	17
	TEP94 Vertical Precision Parabolic	19
Troffers	XTKP Specification Grade Deep Recessed Troffer	20
	CRT/VDT Louvers and Overlay (TT, FT, TJ, FJ, TJ5, FJ5)	21
	Versatile Troffer and Lens (TE, XTE, FE, XFE, TA, FA, TS, FS, TY, FY)	23
	TY66 Cube	26
Surface & Wraparound	SEP Surface Parabolic	27
	SY Shallow Surface Series	28
	SN990 Glare Reducing Wraparound	29
	SY950 Wraparound	30
Industrial & Striplites	SY130, SP175 Wraparound	31
	SY920 Low Profile Wraparound NEW!	32
	IF 2, 3 or 4 Lamp Premium Industrial	33
	IE Series 1 or 2 Lamp Industrial	34
	ID Industrial Decorative Striplite NEW!	35
	RLC Series for Merchandising Area	36
	CH Original Patented Striplite	37
	CHS, CHA, and STC Striplites	38
	CHX Slimline and High Output Striplites	39
	CH5 Lensed T5 Striplite NEW!	40
	WS Series Slim Striplite NEW!	41
	MM and W Midget Series	42
	OS Directional Sign Light	43
	OH Health Care, WE66 and WY66 Wall Task Lighting	44
	OM Healthcare Series	45
	IW, XIW and UW Task Lighting	46
	KW, JBH and OW Task Lighting	47
	OV450 Wet Location Enclosed Striplite	48
	OV410 Gasketed Striplite	49
	OG Aluminum Enclosed Light	49
Vandgard® High Endurance	Vandgard Linear Series	50
	Vandgard 5 x 8 Series	51
	Vandgard 6 x 10 Series	52
	Vandgard 8 x 8 Series	53
	Vandgard 12 x 12 Series	54
	Vandgard 7 x 11 Series	55
	Vandgard 5 x 13 Series	56
	Vandgard 15 Round Series	57
General Information	Guide to Nomenclature	58
	Popular Reflectors for Simkar Fixtures	59
	Lay-In Accessories and Upgrades	60
	Factory Wired Options	62
	Labor Saving Accessories	63

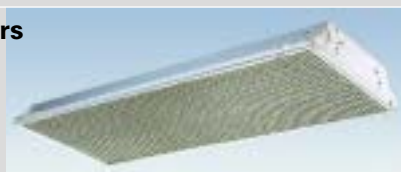
Architectural



Parabolics



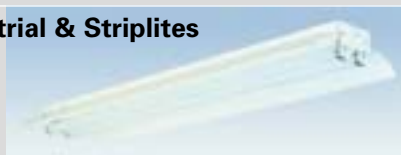
Troffers



Surface & Wraparound



Industrial & Striplites



Vandgard® High Endurance



Alphanumeric Index

AC.....	61, 63	OH Series	44	TE66	26
AH.....	61	OHG	44	TEP.....	16
Angelus.....	7	OHW	44	TEP94.....	19
AS.....	61	OLS.....	63	TFR.....	8
CAACW.....	63	OM Series	45	TJ.....	21
CH	37	OMG.....	45	TJ5	21
CH5	40	OMO.....	45	TK.....	23
CHA	38	OMW.....	45	TL.....	23
Chain Hanger		OS.....	43	TP	23
Assembly.....	63	OV410.....	49	TS.....	23
CHD	37	OV450.....	48	TT	21
CHJ.....	63	OV451.....	48	TTJ5.....	21
CHR5.....	40	OW Series	47	TWG	61
CHRP5	40	OWB	47	TWS	60
CHS.....	38	OWU.....	47	TWW.....	10
CHTT.....	37	P2000.....	6	TX	23
CHX.....	37, 39	PID.....	35	TY	23
Counter		PILPM	5	TY66.....	26
Parts Kit.....	63	PL.....	63	UG	46
COV	11	PLPM	5	UO	46
CP3	63	Plug-In		US	46
CS	63	connectors.....	62	UVW.....	44
DA.....	61	PS.....	9	UVWT.....	44
EC515	61	PSW	63	UW	46
ELS.....	62	PW	9	V1000	54
EM.....	62	RF	63	V105	61
FA	23	RLC	36	V106	61
FB.....	23, 63	SB	28, 63	V108	61
FE.....	23	SCON.....	13	V3000	57
FE2P.....	15	SEP	16, 27	V4000	50
FE3P.....	17	SH	63	V5000	51
FEP.....	16	SK.....	28	V6000	52
FFR.....	8	SLPM.....	5	V8000	53
FH	63	SMC	12	V805	61
FK.....	23	SMCLP.....	12	V806	61
Flange	60	SMCW.....	12	V808	61
Flex.....	62	SN.....	63	V899	61
FS.....	23	SN990.....	29	V9000	56
FY.....	23	SO990.....	29	VH6050.....	55
HR	61	SP.....	28	Vision Saver.....	9
ID	35	SP175.....	31	VISOR.....	61
IE	34	STC.....	38	W.....	42
IF	33	SW	28	WE66.....	44
IW.....	46	SW920.....	32	WECN.....	13
JBH	47	SY.....	28	WECW.....	13
JBUY.....	47	SY130.....	31	WG	63
JS.....	9	SY920.....	32	WS.....	41
JW.....	9	SY930.....	30	WSWT.....	41
KW.....	47	SY950.....	30	WY66.....	44
LDI	4	TA	23	XIW	46
LG	63	TB.....	23	XTBP.....	20
M/S	62	TBH.....	63	XTCP.....	20
MM	42	TDPW	7	XTKP.....	20
OAH.....	37, 39	TE	23	XTUP.....	20
OCH.....	37, 39	TE2P.....	15	XTYP.....	20
OG.....	49	TE3P.....	17	XTZP.....	20

LDI DIRECT/INDIRECT

LDI Linear Direct/Indirect fixtures have a bold, yet practical, look ideal for commercial environments and schools. One-piece housing ensures no sagging. Time saving "keyhole" end plate design for lift and slide continuous row installation. Electronic ballast saves energy and has no hum and no flicker.

Housing: One-piece steel housing with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. See back cover for post paint color options. Continuous row end plates designed for easy linear mounting.

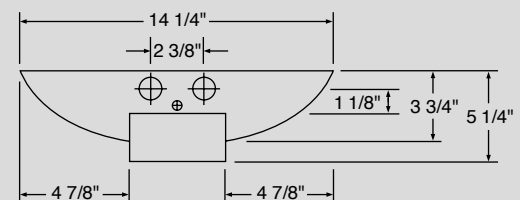
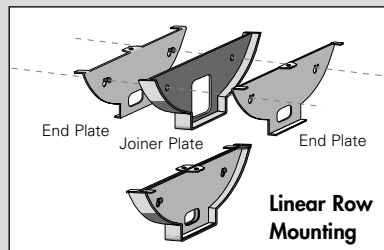
Reflector: Perforated housing with translucent milk white acrylic overlay allows ambient light distribution. Individually mounted units supplied with formed plastic end plates that will not fade or discolor.

Electrical: Fully wired for 120V, 60Hz AC operation with ETL-CBM, thermally protected, energy saving, automatic resetting Class P, sound rated A ballast unless otherwise specified. U.L. listed.

Mounting: Individual or continuous row pendant mount with aircraft cable or stem/canopies. Continuous row fixtures include joiner plate to eliminate light leak, order LDJIP and LDIEC separately. Row units available in 4' and 8' increments only.

NOTE

- See pages 58 through 63 for additional information.



Photometric Data 2-32W 4' Direct/Indirect Model

CANDLEPOWER				LIGHT GUIDE (T8 LAMPS AND ELECTRONIC BALLAST)				COEFFICIENT OF UTILIZATION							
Angle	0	45	90	Footcandles	Area/fixture in sq.ft./lg. room, good conditions - 8' to 10' ceilings			RC 80	70	50	30	50	30	50	30
					2-32W			RW 70	50	30	70	50	30	50	30
0	102	102	102	35	98			RCR							
5	103	101	99	50	69			1	78	74	71	67	64	62	46
15	97	98	99	75	48			2	71	65	60	61	56	52	40
25	90	96	98	100	34			3	65	57	51	56	49	44	36
35	78	87	96					4	59	50	43	51	43	38	31
45	63	77	95					5	54	44	38	46	38	33	28
55	44	66	89					6	49	39	33	42	34	29	25
65	23	52	86					7	45	35	29	39	31	25	22
75	8	39	71					8	42	32	25	36	28	22	20
85	0	20	45					9	39	29	22	33	25	20	18
90	3	17	39					10	36	26	20	31	23	18	16

AVERAGE LUMINANCE				TYPICAL V.C.P.s			
CD/SQ.M				Mounting Height			
Angle	0	45	90	Room Size	Lengthwise	Crosswise	
45	294	489	444	30x30	8.5	10	8.5
55	253	454	513	40x40	99	99	97
65	180	404	553	60x30	99	99	95
75	102	361	519	60x60	99	99	97
85	0	237	396	100x100	98	98	93

Lamps = F32 T8 @ 2850 lumens ea. Input Watts = 59.5 LER = 79.4 Test #05340							
Ballast = Electronic 120V Ballast Factor = 88% S/MH: 0° = 1.2; 90° = 1.4							
Comparative yearly lighting energy cost per 1000 lumens = \$3.02							
based on 3000 hrs. and \$.08 per KWH							

LIGHT DISTRIBUTION			
Zone	Lumens	%Lamp	%Fixture
0-30	1004	17.6	28.0
0-40	164	28.8	45.9
0-60	2882	50.6	80.5
0-90	3552	62.3	99.2

Ordering Information

LDII

SERIES

LDI - Linear direct/indirect*
LDII - Linear direct/indirect
individual with 2 end caps

232

LAMPS

232 - (2) 32W 48" T8
2232 - (4) 32W 48" T8

B11

BALLAST

B11 - Electronic T8
Consult factory for
twin-tube or T5

120V

VOLTAGE

120
277

*LDIEC - Linear Direct/Indirect End Cap, order 1 pair for each row.

*LDJIP - Linear Direct/Indirect Joiner Plate, order one less than number of fixtures.

SLPM LOW PROFILE PENDANT

SLPM Low Profile Pendant combines a sleek low-profile design, smooth white acrylic lens and die-cast brushed metal ends to create a high-tech designer appearance. The unit can be surface mounted or pendant hung with with 1/16" aircraft cable, as shown. An optional microperforated housing is available to provide 5% indirect uplight. The SLPM is ideal for office, residential and light commercial space.

Housing: Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Ends are hand finished to a stainless steel look. See back cover for post paint color options. Inside is grooved to accept acrylic lens and avoid light loss. Perforated housing available for ambient uplight.

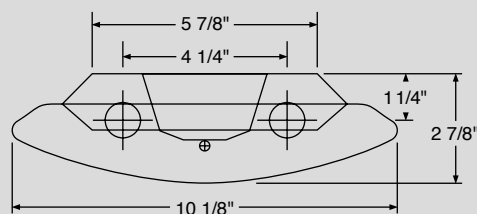
Shielding: Smooth milk white formed acrylic.

Electrical: Fixtures are factory assembled. Fully wired for 120V, 60 Hz AC operation with ETL-CBM, thermally protected, automatic resetting, energy saving, Class P, high-power-factor ballast, unless otherwise specified. Sound rated A ballast. U.L. listed.

Mounting: Flush mounted or pendant hung with CAAWC Suspension Kit. CAAWC Suspension Kit includes white cord, white canopies and 1/16" aircraft cable for maximum 36" suspension length. Individual mounting only. See page 63.



Pendant mounting shown above.



Photometric Data 2-32W 1x4 Model

CANDLEPOWER				LIGHT GUIDE (T8 LAMPS AND ELECTRONIC BALLAST)				COEFFICIENT OF UTILIZATION									
Angle	0	45	90	Footcandles	Area/fixture in sq.ft./lg. room, good conditions - 8' to 10' ceilings			RC	80	70	50	RW	70	50	30	50	30
					2-32W			RCR									
0	1138	1138	1138	35	91.5			1	72	69	66	70	67	64	63	60	
5	1130	1136	1134	50	64			2	66	60	55	63	58	54	55	51	
15	1096	1098	1095	75	42.7			3	60	53	48	58	51	46	48	44	
25	1020	1025	1025	100	32.0			4	55	47	41	53	46	40	43	38	
35	913	919	922					5	50	41	35	48	40	35	38	33	
45	771	781	784					6	46	37	31	44	36	30	34	29	
55	606	619	627					7	42	33	27	41	32	27	31	26	
65	415	440	463					8	39	30	24	38	29	24	28	23	
75	212	271	318					9	36	27	21	35	26	21	25	20	
85	36	145	206					10	33	24	19	32	24	19	23	18	
90	0	102	159					LIGHT DISTRIBUTION									
								Zone	Lumens	%Lamp	%Fixture						
								0-30	889	15.6	23.0						
								0-40	1463	25.7	37.8						
								0-60	2617	45.9	67.6						
								0-90	3486	61.2	90.1						

Lamps = F32 T8 @ 2850 lumens ea. Input Watts = 56.4 LER = FP64.2 Test #05266
Ballast = Electronic Ballast Factor = 93.6% S/MH: 0° = 1.3; 90° = 1.3
Comparative yearly lighting energy cost per 1000 lumens = \$3.74
based on 3000 hrs. and \$.08 per KWH

Ordering Information

S	LP	M	232	B11	120V
MOUNTING	DIFFUSER	ENDS	LAMPS	BALLAST	VOLTAGE
S - Surface ceiling P - Pendant PI - Pendant, perforated housing	LP - Low profile; milk white acrylic	M - Brushed metal	217 - (2) 17W 24" T8 232 - (2) 32W 48" T8	B11 - Electronic T8	120 277

P2000 GLARE REDUCING PENDANT

SIMKAR's P2000 Pendant is an indirect/direct contemporary fixture designed for two 40-watt twin-tube lamps. It provides abundant uplight and comfortable downlight. For higher levels of illumination, high-reflectance ceiling tile is recommended. The standard P2000 is 51 1/2" long by 11 1/8" wide and comes with canopy, stems and hardware for 12" suspension.

Housing: Die-formed heavy gauge steel with a white high-gloss baked enamel finish over a phosphate coating to ensure superior paint adhesion and rust resistance. See look above for available color options.

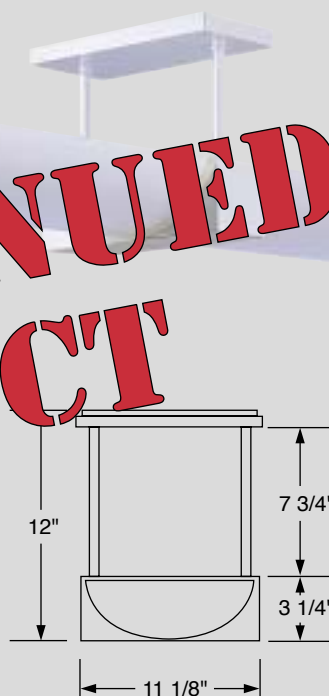
Shielding: Smooth white acrylic with open top and white faux alabaster end pieces permanently attached. Diffusers mount to center box. Acrylic is not to be touched.

Electrical: Fully wired for 120V, 60 Hz, 40-watt lamps with ETL-CBM, thermally protected, automatic recycling, energy saving, Class P, high-power-factor ballast, unless otherwise specified. Sound rated A ballast. U.L. listed.

Mounting: Ceiling pendant mount as single unit. Mounting hardware included.

NOTE

- See pages 58 through 63 for additional information.



Photometric Data 2-40W TT Model

CANDLEPOWER				LIGHT GUIDE (TT LAMPS AND MAGNETIC BALLAST)								COEFFICIENT OF UTILIZATION											
Angle	0	45	90	Footcandles	Area/fixture in sq.ft./lg. room, good conditions - 8' to 10' ceilings				Consult Factory for 50W or 55W Twin Tube model information				RC	80	70			50					
					4 foot unit 2-40W TT								RW	70	50	30	70	50	30	50	30		
0	439	439	439	35					98					1	82	78	75	73	70	67	54	52	
5	438	440	439	50					69					2	75	68	63	66	61	56	47	44	
15	424	428	428	75					46					3	68	60	54	60	53	48	41	38	
25	395	401	401	100					34					4	62	53	46	55	47	41	37	33	
35	351	362	364									5	57	47	40	50	42	36	33	28			
45	299	313	318									6	52	42	35	46	37	31	29	25			
55	234	255	265									7	48	37	30	42	33	27	26	22			
65	162	192	203									8	44	33	27	39	30	24	23	19			
75	91	127	141									9	41	30	24	36	27	21	21	17			
85	29	73	90									10	38	27	21	34	25	19	19	15			
90	20	59	75																				
95	57	99	95																				
105	263	504	521																				
115	480	722	814																				
125	641	848	990																				
135	798	889	1058																				
145	940	908	1042																				
155	1090	1041	1041																				
165	1206	1169	1153																				
175	1268	1262	1246																				
180	1274	1274	1274																				
				AVERAGE LUMINANCE CD/SQ.M								TYPICAL V.C.P.s											
				Angle	0	45	90	Room Size	Mounting Height			Crosswise											
				45	1260	1837	1383	8.5	10	8.5	10												
				55	1198	1617	1421	30x30	83	85	82	85											
				65	1100	1369	1269	40x40	80	81	79	81											
				75	960	1073	1012	60x30	84	85	83	84											
				85	738	786	786	60x60	77	77	76	77											
								100x100	74	75	74	75											
				Lamps = F40/30BX, SPX30 @ 3150 lumens ea. Input Watts = 87.2 LER = FW52.6 Test 003148																			
				Ballast = Magnetic 120 V Ballast Factor = 87.2 S/MH: 0° = 1.3; 90° = 1.3																			
				Comparative yearly lighting energy cost per 1000 lumens = \$4.56																			
				based on 3000 hrs. and \$.08 per KWH																			
												LIGHT DISTRIBUTION											
				Zone		Lumens		%Lamp		%Fixture													
				0-30		346		5.5		6.2													
				0-40		571		9.1		10.2													
				0-60		1038		16.5		18.4													
				0-90		1427		22.6		25.4													
				90-180		4198		66.6		74.6													
				0-180		5625		89.3		100.0													

Ordering Information

P

MOUNTING

P - Pendant

2000

SERIES

2000 - White
Alabaster End;
indirect/direct
white lens; open
top

LAMPS

Standard setup for two
40W twin-tube lamps
(not included)

B10

BALLAST

B10 - Magnetic twin tube
B14 - Electronic twin tube

120V

VOLTAGE

120
277

NOTE: Non-standard items or special orders will require extra lead time. Minimum of 25 units may apply.

TDPW ANJELUS DIRECT/INDIRECT

TDPW Direct/Indirect fluorescent fixtures provide contemporary lighting effects by balancing direct and reflected illumination. Efficient, twin-tube, T5 or T8 lamps are concealed by attractive micro-perforated screens with opaline acrylic inlays. The TDPW is only 3 3/4" deep and comes in 2 x 2 and 2 x 4 configurations.

Housing: Not visible from below ceiling line. Die-formed heavy-gauge steel; prepainted, rust-inhibited, high-gloss white enamel. Access plate provided with 2 KOs and ground screw.

Shielding: Micro-perforated screens with opaline acrylic inlay; staggered hole pattern. White powder-coat finish.

Reflector: Matte white powder-coat finish.

Electrical: Fully wired for 120V, 60 Hz AC operation with ETL-CBM, thermally protected, automatic resetting, energy saving, Class P, high-power-factor ballast, unless otherwise specified. Sound rated A ballast. U.L. listed.

Mounting: Lay-in (T) or flange (F).

A conversion kit is available for NEMA type F ceilings.

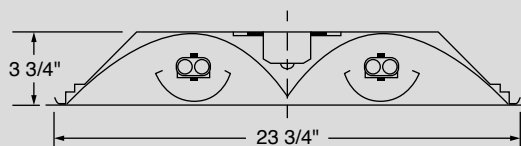
NOTE

- See pages 58 through 63 for additional information.



NEW!

T8 – completely reengineered and retooled



Photometric Data 2-40W TT 2x2 Model

CANDLEPOWER				LIGHT GUIDE (TT LAMPS AND ELECTRONIC BALLAST)								COEFFICIENT OF UTILIZATION											
Angle	0	45	90	Footcandles		Area/fixture in sq.ft./lg. room, good conditions - 8' to 10' ceilings						RC	80					70					50
						2-40W TT	4-40W TT	2-28W T5	4-28W T5			RW	70	50	30	70	50	30	50	30			
						2x2	2x4	2x4	2x4			RCR											
0	1425	1425	1425			35	91	166	89	162		1	75	72	69	73	70	68	67	65			
5	1415	1420	1424			50	64	116	63	114		2	68	63	59	67	62	58	59	56			
15	1366	1385	1399			75	42	78	42	76		3	63	56	51	61	55	50	53	49			
25	1267	1305	1337			100	32	58	31	57		4	57	50	44	56	49	43	47	42			
35	1127	1192	1250			AVERAGE LUMINANCE				TYPICAL V.C.P.s				5	52	44	38	51	43	37	41	36	
45	951	1044	1126			CD/SQ.M				Room Size				6	48	39	33	47	38	33	37	32	
55	737	851	897			Angle	0	90				Mounting Height											
65	493	577	539									Lengthwise	Crosswise										
75	229	248	252			45	3984	4717	30x30	47	48	45	47										
85	43	57	71			55	3806	4632	40x40	47	47	44	45										
90	2	3	3			65	3455	3778	60x30	50	51	50	51										
						75	7621	2884	60x60	47	47	43	44										
						85	1461	2413	100x100	51	49	46	45										
				Lamps = (2) F40 TT @ 3150 lumens ea. Input Watts = 66.4 LER = 64.2																			
				Test LTL #03768 Ballast = Electronic 120 V Ballast Factor = 99.3 S/MH: 0° = 1.3; 90° = 1.4																			
				Comparative yearly lighting energy cost per 1000 lumens = \$3.74																			
				based on 3000 hrs. and \$.08 per KWH																			
				LIGHT DISTRIBUTION																			
				Zone Lumens %Lamp %Fixture																			
				0-30 1129 17.9 26.3																			
				0-40 1876 29.8 43.7																			
				0-60 3425 54.4 79.7																			
				0-90 4296 68.2 100.0																			

Ordering Information

T	DP	W	242	240TT		B14	120V
MOUNTING	TYPE	SIZE	LAMPS	OPTIONS	BALLAST	VOLTAGE	
T - Lay-in, grid ceiling	DP - Direct/indirect lighting with perforated shield	242 - 2x2	214 - (2) 14W 22" T5	ELS - Emergency Lighting System, see page 62	B14 - Electronic TT	120	
F - Flange, GCK Kit, see page 60		244 - 2x4	217 - (2) 17W 24" T8		B10 - Magnetic TT	277	
			240 - (2) 40W 22" TT		B15 - Electronic T5		
			250 - (2) 50W 22" TT		B11 - Electronic T8		
			228 - (2) 28W 46" T5				
			414 - (4) 14W 22" T5				
			432 - (4) 32W 48" T8				
			440 - (4) 40W 22" TT				
			450 - (4) 50W 22" TT				
			428 - (4) 28W 46" T5				

TFR LAY-IN TROFFER

SIMKAR's TFR recessed troffer with parabolic reflector, available in 2 x 2 and 2 x 4 models, is designed to provide highly efficient office and retail lighting. It uses a faceted aluminum reflector with silver film laminate to achieve 95% reflectivity and deliver maximum light output. The aluminum reflector reduces overall fixture weight for ease of installation and has a 10-year warranty.

Housing: Not visible from below ceiling line. Die-formed heavy-gauge steel; prepainted, rust-inhibited, high-gloss white enamel. Ample KOs; access plate. Uses notched lock-in holders.

Reflector: Silver film on aluminum; 95% reflectivity, wide light distribution.

Electrical: Fully wired for 120V, 60 Hz AC operation with reduced harmonic, instant start Class II electronic ballast, unless otherwise specified. See related literature.

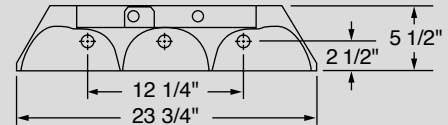
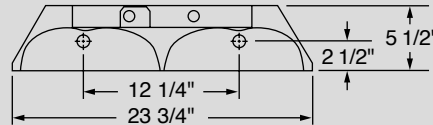
Mounting: Lay in troffer; mount individually or in continuous rows.

NOTE

- See pages 58 through 63 for additional information.

DISCONTINUED PRODUCT

NEW!



Photometric Data 3-32W 2x4 Model

CANDLEPOWER				LIGHT GUIDE (T8 LAMPS AND ELECTRONIC BALLAST)					COEFFICIENT OF UTILIZATION								
Angle	0	45	90	Footcandles	Area/fixture in sq.ft./lg. room, good conditions - 8' to 10' ceilings												
					2-17 W 2x2	3-17W 2x2	2-32W 2x4	3-32W 2x4	RC 80	70	50	30	70	50	30	50	30
0	3710	3710	3710	35	43	64	101	152	1	102	99	95	100	97	94	93	90
5	3687	3679	3577	50	30	45	71	106	2	94	88	82	92	86	81	83	79
15	3536	3528	3287	75	20	30	47	71	3	87	78	72	5	77	71	74	69
25	3258	3122	3039	100	15	23	35	53	4	80	70	62	78	68	62	66	60
35	2849	2625	2476									5	73	61	54	71	60
45	2317	2022	1979									6	67	55	47	65	54
55	1708	1472	792									7	61	49	41	60	48
65	1074	454	198									8	56	44	36	55	43
75	484	19	0									9	51	39	31	50	38
85	80	0	0									10	48	35	28	46	35
90	0	0	0														
				AVERAGE LUMINANCE				TYPICAL V.C.P.s				LIGHT DISTRIBUTION					
				CD/SQ.M			Room Size			Mounting Height							
Angle	0	90								Lengthwise	Crosswise		Zone	Lumens	%Lamp	%Fixture	
45	4774	4078					30x30			8.5	10	8.5	0-30	2712	31.7	34.4	
55	4339	2012					40x40			67	63	78	0-40	4338	50.7	55.1	
65	3703	683					60x30			70	65	80	0-60	7120	83.3	90.4	
75	2725	0					60x60			68	66	82	0-90	7879	92.2	100.0	
85	1337	0					100x100			70	70	82					

Lamps = (3) F32 T8 @ 2850 lumens ea. Input Watts = 86.6 LER = FP82.7 Test #03526
 Ballast = Electronic 120 V Ballast Factor = 90.9% S/MH: 0° = 1.2; 90° = 1.1
 Comparative yearly lighting energy cost per 1000 lumens = \$2.90
 based on 3000 hrs. and \$.08 per KWH

Ordering Information

T	FR	244	332	B11	SR	120V
MOUNTING	REFLECTOR	SIZE	LAMPS	BALLAST	SPECIAL FEATURE	VOLTAGE
T - Lay-In F - Flange XT - Powder Coat, lay-in XF - Powder Coat, flange	FR - Faceted aluminum reflector	242 - 2 x 2 244 - 2 x 4	117 - (1) 17W 24" T8 132 - (1) 32W 48" T8 217 - (2) 17W 24" T8 232 - (2) 32W 48" T8 317 - (3) 17W 24" T8 332 - (3) 32W 48" T8	B11 - Electronic T8	SR - Silver reflector FL - Flex, see page 62 L - Lamps	120 277

JS, JW VISION SAVER™ CEILING FIXTURES

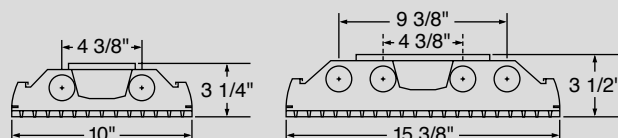
SIMKAR JS and JW Vision Saver fixtures use a specially engineered louver and housing combination to shield the lamps from direct view and cut off light in the high angles of the "glare zone." As a result, the fixtures provide good general illumination, while eliminating uncomfortable glare. Studies show that 25% of video display terminal (VDT) users suffer from eye strain, discomfort and fatigue. Vision Saver eliminates harsh lighting that cause glare on the screen.

Housing: Die-formed heavy gauge steel with high gloss, baked white enamel finish over rust inhibiting phosphate coating. Select color for post paint color options.

Shielding: Metalized louver, white slats, and diffuser housing.

Electrical: Available with T8 or T12 ballast. Fully wired for 120V AC operation. Thermally protected Class 100UL listed.

Mounting: Individual or continuous row, under or surface mount. Pendant mount available; consult factory.



DISCONTINUED PRODUCT

ARCHITECTURAL

Photometric Data 2-32W 1x4 T8 Model

CANDLEPOWER				LIGHT GUIDE (T8 LAMPS AND ELECTRONIC BALLAST)								COEFFICIENT OF UTILIZATION								
Angle	0	45	90	Footcandles	Area/fixture in sq.ft./lg. room, good conditions - 8' to 10' ceilings				RC	80	70	50	30	70	50	30	50	30		
					2-32W T8	4-32W T8	4-40W T12	4-40W T12	RW	70	50	30	70	50	30	50	30			
0	1507	1507	1507	35	74	167	64	142	1	67	65	63	65	63	62	61	59			
5	1499	1514	1517	50	53	117	45	99	2	62	59	56	61	58	55	56	53			
15	1441	1493	1524	75	35	78	30	66	3	58	53	50	57	52	49	51	48			
25	1330	1439	1461	100	26	59	22	50	4	54	48	44	53	47	43	46	43			
35	1173	1251	1182	AVERAGE LUMINANCE CD/SQ.M				TYPICAL V.C.P.s				5	50	43	39	49	43	39	42	38
45	967	951	965	Angle	0	90	Room Size	Mounting Height	Lengthwise	Crosswise	6	46	39	35	45	39	34	38	34	
55	705	625	539	0	5478	5478	30x30	8.5	10	8.5	7	42	35	31	42	35	30	34	30s	
65	25	81	39	45	4971	4961	40x40	82	74	84	8	39	32	27	38	31	27	31	27	
75	0	0	0	55	4468	3416	60x30	82	74	84	9	36	28	24	35	28	24	27	23	
85	0	0	0	65	215	335	60x60	82	74	85	10	33	25	21	33	25	21	25	21	
90	0	0	0	75	0	0	100x100	82	74	85	LIGHT DISTRIBUTION									
				85	0	0		83	75	85	78	Zone	Lumens	%Lamp	%Fixture					
				Lamps = (2) F32 T8 @ 2850 lumens ea. Input Watts = 129 LER = FP55.6 Test #04446								0-30	1216	21.3	35.9					
				Ballast = Electronic 120 V Ballast Factor = 93.6 S/MH: 0° = 1.2; 90° = 1.3								0-40	1977	34.7	58.4					
				Comparative yearly lighting energy cost per 1000 lumens = \$4.32								0-60	3279	57.5	96.8					
				based on 3000 hrs. and \$.08 per KWH								0-90	3386	59.4	100.0					

Ordering Information

J	S	232	B11		120V
MOUNTING	DIFFUSER	LAMPS	BALLAST	OPTION	VOLTAGE
J - Surface ceiling P - Pendant	S - Specular W - Semi-specular	217 - (2) 17W 24" T8 220 - (2) 20W 24" T12 232 - (2) 32W 48" T8 240 - (2) 34 or 40W 48" T12 317 - (3) 17W 24" T8* 332 - (3) 32W 48" T8* 417 - (4) 17W 24" T8 420 - (4) 20W 24" T12 440 - (4) 34 or 40W 48" T12 Tandem/continuous row** 2232 - (4) 32W 48" T8 2240 - (4) 34 or 40W 48" T12	B11 - Electronic T8 E1 - Magnetic T12	For tandem fixtures, please specify END - End of row, one endplate MID - Middle of row, no endplate	120 277
* Three light fixtures recommended for surface mount only. ** 96" units have one piece metal housing and use two 4' louver sections.					

TWW LAY-IN WALL WASHER

SIMKAR's TWW Lay-in Wall Washer provides maximum accent lighting with minimum brightness. Unit is ideal for highlighting artwork, signage, and merchandise.

Housing: Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Access plate (topside) provided with two KOs and ground screw.

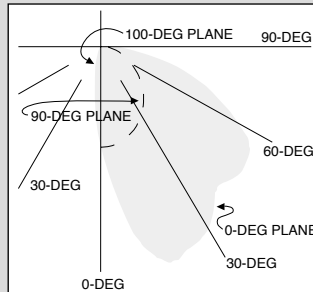
Reflector: Downward throw asymmetric reflector with semi-specular finish offers high optical performance, producing even light to vertical surface from single twin-tube lamp.

Electrical: End-of-life protection, where available. Fully wired for 120V, 60 Hz AC operation. Thermally protected, Class P, high power factor, sound rated A, full light energy-saving ballast, unless otherwise specified. U.L. listed.

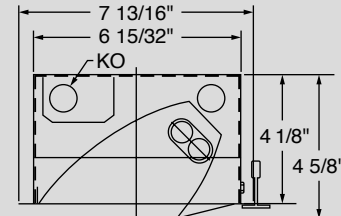
Mounting: 36" from wall. Lay-in (T) includes integral hang tabs. Offset ends for continuous row mounting. Optional conversion kit available for sheetrock or plaster ceilings (TWWFK82 or 84).

NOTE

- See pages 58 through 63 for additional information.

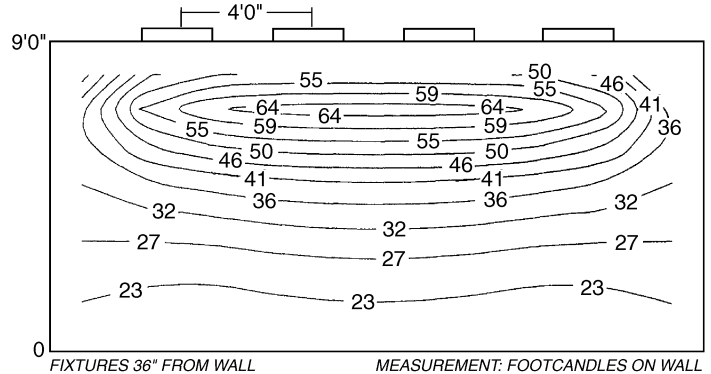


Consult factory for additional photometric data.



Photometric Data 1-40W TT 2' Model

CANDLEPOWER				AVERAGE LUMINANCE			
Angle	0	45	90	Angle	0	45	90
0	514	514	514	45	20055	16921	6417
5	711	668	510	55	23654	18693	5718
15	1132	1005	485	65	23882	21012	4961
25	1125	1081	437	75	23143	19325	4571
35	994	971	375	85	18384	12886	3952
45	947	799	303	LIGHT DISTRIBUTION			
55	906	716	219	Zone	Lumens	%Lamp	%Fixture
65	674	593	140	0-30	462	14.7	24.6
75	400	334	79	0-40	764	24.3	40.6
85	107	75	23	0-60	1403	44.5	74.6
90	34	15	3	0-90	1881	59.7	100.0
				Lamps = (1) 40W-TT @ 3150 lumens ea. Input Watts = 68.2 Test # 01823			



Ordering Information

T	WW	84	240TT	B14	FL	120V
MOUNTING	SIZE	LAMPS	BALLAST	SPECIAL FEATURE	VOLTAGE	
T - Lay-In F - Flange, see page 60	82 - 8" x 2' 84 - 8" x 4'	140 - One 40W 48" twin tube (2' model) 240 - Two 40W 48" twin tube (4' model) 250 - Two 50W 48" twin tube (4' model)	B10 - Magnetic TT B14 - Electronic TT	FL - Flex, see page 62	120 277	
APPLICATION						
WW - Wall washer, semi-specular						

COV COVE ELITE TWIN TUBE INDIRECT

SIMKAR's Cove Elite indirect fixture provides non-glaring ambient illumination from a concealed source. Transform retail space, bank or hotel lobbies, office corridors or conference rooms, and restaurants with indirect lighting. SIMKAR recommends use of high-reflectance ceiling tiles with indirect lighting fixtures. Available in two convenient lengths and a choice of T8 or T5 lamps.

Housing: Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Ample knockouts for wire through.

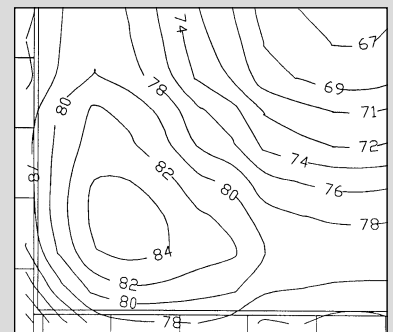
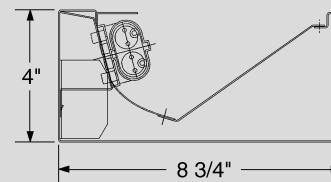
Reflector: Specular anodized forward-throw reflector and twin-tube lamps for even illumination without hot spots or striations. Fully assembled and ready to mount.

Electrical: End-of-life protection, where available. Fully wired for 120V, 60 Hz AC operation. Thermally protected Class P ballast. Sound rated A. U.L. listed.

Mounting: Surface mount or drop into cove approximately 18" from ceiling. Stop fixture 6" short of end wall to avoid excessive corner brightness. Light distribution becomes more uniform as distance from ceiling increases. Minimum spacing from ceiling is 18". For uniform light fixtures along one wall, room width should not exceed 108", or both walls, 216" max. room width.

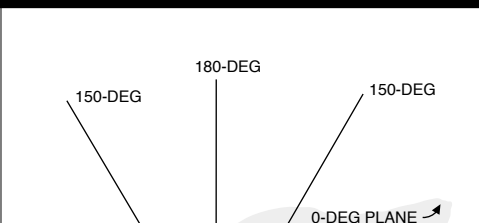
NOTE

- See pages 58 through 63 for additional information.



F.C. on workplane 30" high. Room 20' x 20' x 9', cove mounted at 7'.

Photometric Data 1-40W TT 2' Model

CANDLEPOWER				NOTES:		COEFFICIENT OF UTILIZATION												
Angle	0	45	90			RC 80	70	50	30	70	50	30	50	30	RCR			
90	0	1	0	Calculate average illuminance in foot candles using zonal cavity method, de-rate by 10% for perimeter layout. Consult factory for 50W Twin Tube model information. Lamps: (1) 40W TT @ 3150 lumens ea. Input Watts: 45.8. Test #01424. Ballast: Magnetic.														
95	18	104	27															
105	479	575	110															
115	1002	780	210															
125	1140	662	293															
135	829	651	360															
145	751	635	412															
155	685	594	450															
165	607	547	476															
175	525	503	485															
180	488	488	488															
LIGHT DISTRIBUTION																		
Zone	Lumens	%Lamp	%Fixture															
90-120	734	23.3	33.1															
90-130	1136	36.0	51.2															
90-150	1792	56.9	80.8															
90-180	2218	70.4	100.0															

Ordering Information

COV

MOUNTING

COV - Surface wall mount or lay into cove

2

SIZE AND WEIGHT

1 - 1 Lamp 2', 9#
1 - 1 32W 4' T8, 10#
2 - 2 Lamp 4', 14#

40TT

LAMPS

17 - 17W 24" T8
32 - 32W 48" T8
40 - 40W 22" Twin Tube

B14

BALLAST

B10 - Magnetic TT
B11 - Electronic T8
B14 - Electronic TT

120V

VOLTAGE

120
277

SMC, SMCLP CLOUDS AND SMCW MINI CLOUDS

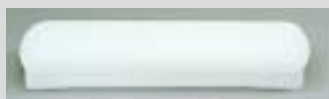
SMC Clouds, SMCW Mini Clouds, and SMCLP Low Profile Clouds provide soft, even, diffused light from a flawless white acrylic diffuser. SMC and SMCLP Lift and Shift diffuser for easy relamping and cleaning without tools. Coordinated ceiling and wall models unify separate rooms and living spaces. SMCLP hugs close to the ceiling with a depth of only 3 1/2".

Housing: Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat.

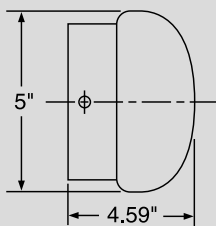
Shielding: Frameless white acrylic diffuser with D.R. for added durability and even efficient illumination on SMC and SMCLP units. SMCLP shielding is only 3 1/2" deep. SMCW models use knurled brass screws to hold diffuser in place.

Electrical: Fully wired for 120V, 60 Hz AC operation. Thermally protected, Class P, high power factor, sound rated A, full light energy-saving ballast, unless otherwise specified. U.L. listed.

Mounting: SMC and SMCLP ceiling and SMCW wall models.



SMCW Wall Mini Cloud

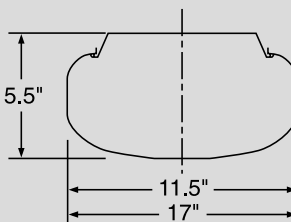


SMCW fixtures are available in 27", 39" and 51" models.

NEW!

in T8 Electronic

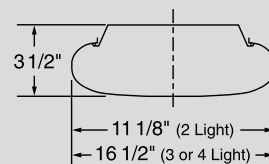
SMC Cloud



SMC fixtures are available in 28" and 52" models.

NEW!

SMCLP Low Profile Cloud



SMCLP fixtures, available in 52" length only, are 2/3 the depth of traditional clouds.

Photometric Data 2-32W Low Profile 4' Model

CANDLEPOWER				LIGHT GUIDE (T8 LAMPS AND ELECTRONIC BALLAST)								COEFFICIENT OF UTILIZATION									
Angle	0	45	90	Footcandles	Area/fixture in sq.ft./lg. room, good conditions - 8' to 10' ceilings				RC	80	50	30	50	30	10	30					
					2-32W				RW	70	50	30	70	50	30	30					
									RCR												
0	814	814	814	35	160				1	73	69	65	59	56	54	47	46				
5	808	811	811	50	112				2	66	59	54	51	47	43	40	38				
15	776	785	793	75	75				3	60	52	46	44	40	36	36	33				
25	724	745	765	100	56				4	55	46	39	34	39	34	31	28				
35	644	687	724	AVERAGE LUMINANCE CD/SQ.M Angle04590 45394842264184 55377840634182 65338839564247 75270439724461 85159644405173 LIGHT DISTRIBUTION ZoneLumens%Lamp%Fixture 0-3064411.115.3 0-40107418.525.6 0-60201634.848.0 0-90307653.073.3				5	50	40	33	34	29	25	28	24					
45	540	614	670					6	46	36	29	31	26	22	21						
55	423	429	612					7	42	32	26	28	23	19	22	19					
65	285	440	543					8	39	29	22	25	20	16	20	17					
75	147	354	469					9	36	26	20	22	17	14	18	15					
85	37	285	408					10	33	23	18	20	16	12	17	13					
90	9	254	379					Lamps = (2) F32T8 @ 2900 lumens ea. Input Watts = 57.0 LER = 72.4 Test LTL #05424 Ballast = Electronic 120V Ballast Factor = 93.6% S/MH: 0° = 1.2; 90° = 1.3 Comparative yearly lighting energy cost per 1000 lumens = \$3.31 based on 3000 hrs. and \$.08 per KWH													

Ordering Information

SMC

SERIES

SMC - Cloud
SMCW - Wall Mini Cloud
SMCLP - Low Profile Cloud*

* Low Profile available in 48" electronic T8 only.

440

LAMPS

232 - (2) 32W 48" T8
240 - (2) 34 or 40W 48" T12
317 - (3) 17W 24" T8**
332 - (3) 32W 48" T8**
417 - (4) 17W 24" T8
420 - (4) 20W 24" T12
432 - (4) 32W 48" T8
440 - (4) 34 or 40W 48" T12

E1

BALLAST

B11 - Electronic T8
E1 - Magnetic T12

120V

VOLTAGE

120
277

**3 lamp fixtures available in Electronic T8 only.

WECN, WECW BATH BARS AND SCONCE

WECN and WECW End Cap Bath Bars are versatile, stylish fixtures that can be used in many applications to complete a room. Range of colors, textures, trim options, and sizes to meet all decorating schemes and lighting requirements. Superior fit and finish – no exposed metal work or open joints to trap dust. Energy-efficient T8 lamps with improved color rendering bring out natural colors in fabrics, wall treatments, and skin tones. Quick installation for ceiling or wall applications.

Housing: Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Knockouts provided on back.

Diffuser: Consists of a UV acrylic clear fluted, white fluted, smooth white, or perforated lens mated to one of a variety of end caps. The end caps are available in wide and narrow versions in a range of colors and textures. Diffuser is secured to housing with spring clips. ADA Compliant.

Electrical: Fixtures are fully assembled and fully wired for 120V, 60 Hz AC operation. ETL-CBM, thermally protected, instant start, Class P, sound rated A reduced harmonic electronic ballast. U.L. listed.

Mounting: Surface mount wall or ceiling, vertical or horizontal.

NOTE

- Surface mount linear fixtures available, see Decorative Catalog.

Available Colors and Textures:



AL - Alabaster



BG - Black Gravel



BM - Black Marble



BW - Bone White



IV - Ivory Marble



PM - Peach Marble



SW - Solid White



TO - Tortoise

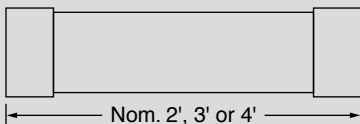


VG - Verde Green

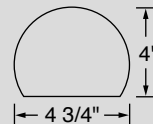
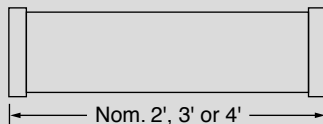


WM - White Marble

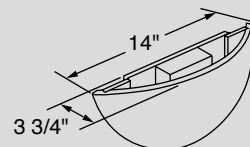
Model WECW - End cap, wide (1 1/2" wide)



Model WECN - End cap, narrow (1/2" wide)



Matching sconce SCON IV 26 in Ivory Marble.



Ordering Information

WECW	2	IV	WS	B	217	B11	120V
SERIES	SIZE	COLOR	DIFFUSER	TRIM	LAMPS	BALLAST	VOLTAGE
WECN - 1/2" end cap	2 - 25.5"	AL - Alabaster	CR - Clear	B - Brass	217 - (2) 17W 24" T8	B11 - Electronic T8	120
WECW - 1 1/2" end cap	3 - 37.5"	BG - Black Gravel	ribbed	C - Chrome	225 - (2) 25W 36" T8		277
SCON - 14" Sconce*	4 - 49.5"	BM - Black Marble	WR - White	N - None	232 - (2) 32W 48" T8		
		BW - Bone White	ribbed		26 - (2) 13W PL,		
		IV - Ivory Marble	WS - Smooth		Sconce only		
		PM - Peach Marble	white				
		SW - Solid White	P - Perforated				
		TO - Tortoise					
		VG - Verde Green					
		WM - White Marble					

* For sconce, identify color and lamp.

TE2P SERIES PRECISION PARABOLIC

SIMKAR Para-Spec® fixtures feature parabolic louvers manufactured to exacting engineering, materials and quality specifications to ensure superior performance and service life.

Para-Spec® II TE2P Deep Cell Parabolics are precision engineered to eliminate glare. In particular, optimal positioning of the lamps provides high-efficiency fixtures with uniform low brightness in the 60°- 90° zone. The TE2P complies with RP1.

PARABOLIC



TE2P-27 cell
controls light at glare
producing angles and meets IES
RP1 preferred criteria.



Photometric Data 2x4, 3-32W, 27 Cell Unit

CANDLEPOWER				LIGHT GUIDE (T8 LAMPS AND ELECTRONIC BALLAST)							COEFFICIENT OF UTILIZATION												
Angle	0	45	90	Footcandles	Area/fixture in sq.ft./lg. room, good conditions - 8' to 10' ceilings					RC	80		70		50								
					3-TT40W			3-17W		3-32W			70	50	30	50	30						
0	2424	2424	2424	35	132			54		115			1	72	72	72	70	70	70	67	67		
5	2415	2427	2443	50	93			37		80			2	68	66	65	67	65	64	63	61		
15	2302	2577	2814	75	62			25		54			3	64	61	58	63	60	58	58	56		
25	2101	2747	3090	100	46			18.7		40			4	57	51	47	55	51	47	49	46		
35	1794	2634	3283	AVERAGE LUMINANCE				TYPICAL V.C.P.s				5	53	47	43	52	46	42	45	41			
45	1197	1965	1250	CD/SQ.M				Room				6	49	43	39	48	43	39	42	38			
55	172	260	94	Angle	0	45	90	Size	Mounting Height		Crosswise				7	46	39	35	45	39	35	38	34
65	12	16	13	45	2769	4545	2891	8.5	10.0	8.5	10.0				8	42	35	31	42	35	31	34	30
75	3	3	4	55	490	741	268	30x30	95	95	98	95	9	39	32	27	38	32	27	31	27		
85	1	1	1	65	46	62	50	40x40	95	95	98	96	10	36	29	25	35	29	24	28	24		
90	0	0	0	65	46	62	50	60x30	95	95	98	96	LIGHT DISTRIBUTION										
				75	19	19	25	60x60	95	95	98	96	Zone	Lumens	%Lamp	%Fixture							
				85	19	19	19	100x100	96	95	98	96	0-30	2196	25.2	41.7							
				Lamps = F32 T8 @ 2850 lumens ea. Input Watts = 87.9 LER = FP51.8 Test #01423									0-40	3801	43.7	72.2							
				Ballast = Electronic Ballast Factor = .88 S/MH: 0° = 1.2; 90° = 1.7									0-60	5246	60.3	99.6							
				Comparative yearly lighting energy cost per 1000 lumens = \$4.63									0-90	5267	60.5	100.0							
				based on 3000 hrs. and \$.08 per KWH																			

TE2P SERIES PRECISION PARABOLIC

TE2P Precision Parabolics with full black reveal create a floating louver appearance and hinged louver allows easy relamping. Options include flex, master/satellite wiring and heat return functions. Protective poly sheet keeps louver clean during shipment and installation.

Housing: Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Access plate provided with two KO's and ground screw.

Shielding: Precision engineered, low iridescent, anodized specular aluminum parabolic 4.25" deep cell louver equipped with Things and spring latches to enable access from either side.

Electrical: Fully wired for 120V, 60 Hz AC operation with thermally protected, automatic resetting, energy saving, Class P, sound rated A ballast, unless otherwise specified. Electronic T8 is reduced harmonic. ETL-CBM approved. U.L. listed.

Mounting: Optional EC515 Earthquake clip for extra security for TE2P in T-Bar ceilings. Flanged units use trim kits that require field assembly.

NOTE

- See pages 58 through 63 for additional information.

Excellent choice for VDT applications!

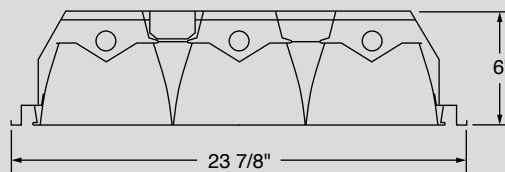


Precision design "cut-off" louver effectively eliminates glare in key zones.



TE2P 2x2 12 Cell

PARABOLIC



Ordering Information, T8 or Twin Tube Only

T	E2P	244	332	B11	SR	27C	120V
MOUNTING	SIZE	LAMPS	BALLAST	SPECIAL FEATURE	VOLTAGE		
T - Lay-in F - Flanged, see page 60	242 - 2 x 2 244 - 2 x 4	317 - (3) 17W 24" T8 332 - (3) 32W 48" T8 340TT- (3) 40W 22" TT	B11 - Electronic T8 B14 - Electronic TT B10 - Magnetic TT	FL - Flex, see page 62 SR - Silver Reflector See page 59 for additional accessories	120 277		
LOUVER FAMILY						CELL CONFIG	
E2P - Deep specular precision cut off						12 - 2x2 (3 rows of 4) 27 - 2x4 (3 rows of 9)	

TEP AND FEP SERIES DEEP PARABOLIC

TEP and FEP Deep Cell Parabolics are attractive high-efficiency fixtures that produce uniform low brightness in the 60°- 90° zone.

Housing: Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Full black reveal and hinged louver for easy relamping. Access plate provided with 2 KO's and ground screw.

Shielding: Low iridescence, anodized, semi-specular aluminum parabolic, nominal 3" deep-cell louver held securely by steel latches. "T" hinges allow access from either side.

Electrical: Fully wired for 120V, 60 Hz AC operation with thermally protected, automatic resetting, energy saving, Class P, sound rated A ballast, unless otherwise specified. Electronic T8 is reduced harmonic. U.L. listed.

Mounting: Optional EC515 Earthquake Clip for lay-in TEP grid ceilings. Specify FEP for flange unit or use GCK kit. Flanged units require field assembly. Specify SEP for surface unit.

NOTES

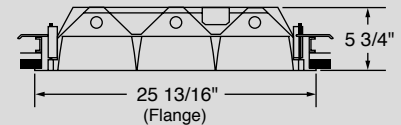
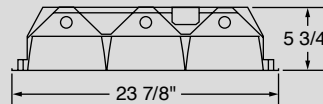
- Consult factory for specification grade XTEP.
- See pages 58 through 63 for additional information.



SIMKAR's new technology ensures sure firing of U-bend lamps – first time, every time



TEP-244 32 Cell



Photometric Data 3-32W 2x4 18 Cell Model

CANDLEPOWER				LIGHT GUIDE (T8 LAMPS AND ELECTRONIC BALLAST)						COEFFICIENT OF UTILIZATION												
Angle	0	45	90	Footcandles	Area/fixture in sq.ft./lg. room, good conditions - 8' to 10' ceilings				RC	80	70				50							
					2-31U 6"	2-32 1 x 4		3-32W	4-32W	RW	70	50	30	70	50	30	50	30				
0	2880	2880	2880	35	77	77		141	165	1	84	81	79	82	79	77	76	75				
5	2869	2885	2901	50	54	54		99	115	2	78	74	70	76	72	69	70	67				
15	2742	2866	2953	75	36	36		66	77	3	73	67	62	71	66	61	64	60				
25	2523	2751	2939	100	27	27		49	58	4	68	60	55	66	60	55	58	54				
35	2228	2545	2927	AVERAGE LUMINANCE					TYPICAL V.C.P.s					5	63	55	49	61	54	48	52	48
45	1822	2106	1305	CD/SQ.M				Room Size	Mounting Height			6	58	49	44	57	49	43	48	43		
55	1296	820	526	Angle	0	45	90	Lengthwise	Crosswise	7	54	45	39	52	44	39	43	38				
65	480	247	165	45	4289	4957	3072	8.5	10	8.5	10	8	49	40	34	48	40	34	39	34		
75	47	41	32	55	3761	2380	1526	30x30	84	79	91	9	46	36	30	44	36	30	35	30		
85	8	8	7	65	1890	973	650	40x40	86	83	92	10	42	33	27	41	32	27	32	27		
90	0	2	2	75	302	264	206	60x30	86	82	92	LIGHT DISTRIBUTION										
				85	153	153	134	60x60	88	85	92	90	Zone	Lumens	%Lamp	%Fixture						
					Lamps = F32 T8 @ 2850 lumens ea. Input Watts = 90.4 LER = FP62.3 Test #00910								0-30	2352	27.0	36.1						
					Ballast = Electronic Ballast Factor = .88 S/MH: 0° = 1.2; 90° = 1.5								0-40	3953	45.4	60.7						
					Comparative yearly lighting energy cost per 1000 lumens = \$3.85								0-60	6147	70.7	94.5						
					based on 3000 hrs. and \$.08 per KWH								0-90	6508	74.8	100.0						

Ordering Information

T	EP	244	332	B11	SR	18C	120V
MOUNTING		SIZE	LAMPS	BALLAST	SPECIAL FEATURE	VOLTAGE	
T - Lay-in		124 - 1 x 4*	232U - (2) 32W U6" T8**	B10 - Magnetic TT	CG - Gold louver	120	
F - Flange, see page 60		242 - 2 x 2	232 - (2) 32W 48" T8 ‡	B11 - Electronic T8	CW - White louver	277	
S - Surface unit, see page 27		244 - 2 x 4	240 - (2) 40W U6" T12	B14 - Electronic TT	FL - Flex, See page 62		
LOUVER FAMILY				E1 - Magnetic T12	SR - Silver reflector, see page 59	CELL CONFIG	
EP - Nominal 3" deep cell, semi-specular			317 - (3) 17W 24" T8‡		Air handling, see page 61	8 - 1x4 (1 row of 8)	
* 1x4 is flanged unit, standard			332U - (3) 32W U 1 5/8" T8			9 - 2x2 (3 rows of 3)	
** For 1 5/8" please specify			332 - (3) 32W 48" T8			12 - 2x4 (2 rows of 6)	
‡ Not available on all models			340 - (3) 34 or 40W 48" T12			16 - 2x2 (4 rows of 4)	
			340TT - (3) 40W 22" TT‡			18 - 2x4 (3 rows of 6)	
			417 - (4) 17W 24" T8‡			24 - 2x4 (3 rows of 8)	
			432 - (4) 32W 48" T8 ‡			24 - 2x4 (4 rows of 6)	
			440 - (4) 34 or 40W 48" T12			32 - 2x4 (4 rows of 8)	

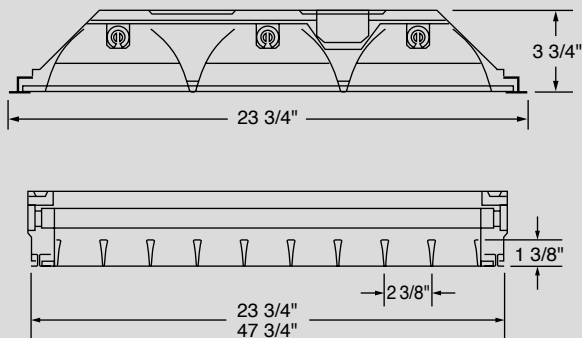
TE3P LOW BRIGHTNESS VDT PARABOLIC

SIMKAR's TE3P Parabolic is a shallow plenum parabolic specifically designed to provide exceptional visual comfort in VDT areas. Its low brightness and overall photometric performance comply with IES RP-1. The TE3P is only 3 3/4" high and can be installed in NEMA type "F" or "G" ceilings. Photometric data can be found on page 18.



TE3P Parabolic

PARABOLIC



TE3P Parabolics are ideal for applications like offices or schools where light control is needed.



Ordering Information

T	E3P	—	244	332	B11	57C	—	120V
MOUNTING	SPEC DOOR	SIZE	LAMPS	BALLAST	SPECIAL FEATURE			VOLTAGE
T - Lay-in F - Flange, see page 60 XF - Powder coat, flange XT - Powder coat, lay-in	Black steel, standard WF - Flat steel, white	242 - 2 x 2 244 - 2 x 4	317 - (3) 17W 24" T8 332 - (3) 32W 48" T8	B11 - Electronic T8	AR - Specular aluminum reflector FL - Flex, see page 62 QA - Quick access ballast cover			120 277
LOUVER		CELL CONFIG/3 ROWS						
E3P - Precision aluminum cell for shallow T8 troffer		27C - 27 cell semi-Specular 27CS - 27 cell specular (2x2) 57C - 57 cell semi-Specular 57CS - 57 cell specular (2x4)						

TE3P LOW BRIGHTNESS VDT PARABOLIC

A low-iridescence, semi-specular 57-cell louver is standard; specular aluminum is optional. Louvers are installed in a flush, black steel door to create an attractive floating appearance. The door hinges from either side with a swing-action cam latch for easy relamping.

Housing: Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Knockouts and/or access plate provided.

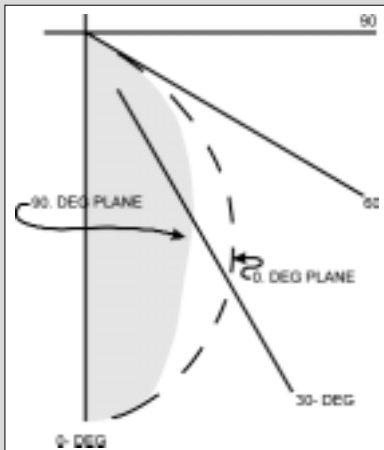
Shielding: Excellent VCP; meets IES RP-1 for VDT areas. Low iridescence, anodized semi-specular or specular aluminum parabolic louver is installed in flush steel door frame (black) with mitered corners that can be hinged from either side. Swing-action cam latches provide positive fit. Light traps standard. High-reflectance white reflector standard.

Electrical: Fully wired for 120V, 60 Hz AC operation with thermally protected, automatic resetting, energy saving, Class P, sound rated A ballast, unless otherwise specified. Electronic T8 is reduced harmonic. ETL-CBM approved. U.L. listed.

Mounting: Lay-in (T) or Flange (F) troffer with access plate provided with 2 KOs and ground screw. 2 x 2 and 2 x 4 flanged fixtures require field assembly.

NOTE

- See pages 58 through 63 for additional information.



Photometric Data 3-32W 2x4 Model, Specular

CANDLEPOWER				LIGHT GUIDE (T8 LAMPS AND ELECTRONIC BALLAST)				COEFFICIENT OF UTILIZATION							
Angle	0	45	90	Footcandles	Area/fixture in sq.ft./lg. room, good conditions - 8' to 10' ceilings			RC 80	70	50	30	70	50	30	50
0	3808	3808	3808		3-17W T8	3-32W		RW 70	70	50	30	70	50	30	50
5	3908	3887	3860	35	57	123		RCR	1	79	77	75	77	75	73
15	3694	3425	3325	50	40	86			2	74	70	67	72	69	66
25	3302	2843	2487	75	27	58			3	69	64	60	68	63	59
35	2788	1998	1759	100	20	43			4	65	59	54	63	58	53
45	2112	1315	1253						5	60	53	48	59	53	48
55	1094	821	680						6	56	49	44	55	48	44
65	45	124	35						7	52	45	40	51	44	39
75	2	2	3						8	49	41	35	48	40	35
85	1	1	0						9	45	37	32	44	36	31
90	0	0	0						10	42	34	29	41	33	29

AVERAGE LUMINANCE				TYPICAL V.C.P.s			
CD/SQ.M				Mounting Height			
Angle	0	45	90	Room Size	Lengthwise	Crosswise	
45	5049	3144	2995	8.5	10	8.5	10
55	3224	2420	2004	30x30	92	86	93
65	180	496	140	40x40	92	87	93
75	13	13	20	60x30	92	87	93
85	19	19	0	60x60	93	87	93
				100x100	93	87	94

Lamps = (3) F32 T8 @ 2850 lumens ea. Input Watts = 84.1 LER = FP-63.1 Test #03020															
Ballast = Electronic 120 v Ballast Factor = .887 S/MH = 1.2															
Comparative yearly lighting energy cost per 1000 lumens = \$3.80 based on 3000 hrs. and \$.08 per KWH															

LIGHT DISTRIBUTION			
Zone	Lumens	%Lamp	%Fixture
0-30	2653	31.0	44.4
0-40	3991	46.7	66.6
0-60	5854	68.5	97.9
0-90	5982	70.0	100.0

Photometric Data 3-32W 2x4 Model, Semi-specular Finish

CANDLEPOWER				LIGHT GUIDE (T8 LAMPS AND ELECTRONIC BALLAST)				COEFFICIENT OF UTILIZATION							
Angle	0	45	90	Footcandles	Area/fixture in sq.ft./lg. room, good conditions - 8' to 10' ceilings			RC 80	70	50	30	70	50	30	50
0	3726	3726	3726		3-17W T8	3-32W		RW 70	70	50	30	70	50	30	50
5	3698	3695	3696	35	57	123		RCR	1	74	72	70	73	71	69
15	3442	3373	3170	50	40	86			2	70	66	63	68	65	62
25	3043	2579	2355	75	27	58			3	66	60	57	64	60	56
35	2507	1885	1789	100	20	43			4	61	55	51	60	54	50
45	1832	1328	1314						5	57	50	45	56	49	45
55	966	796	670						6	53	46	41	52	45	41
65	142	156	46						7	49	42	37	46	41	37
75	20	13	7						8	46	38	33	45	38	33
85	2	3	2						9	42	34	30	42	34	29
90	0	0	1						10	40	32	27	39	31	26

AVERAGE LUMINANCE				TYPICAL V.C.P.s			
CD/SQ.M				Mounting Height			
Angle	0	45	90	Room Size	Lengthwise	Crosswise	
45	4407	3194	3161	8.5	10	8.5	10
55	2864	2366	1967	30x30	92	89	93
65	571	636	185	40x40	92	90	93
75	131	85	46	60x30	92	89	93
85	39	59	39	60x60	92	90	93
				100x100	92	90	93

Lamps = (3) F32 T8 @ 2850 lumens ea. Input Watts = 84.8 LER = FP-61 Test #02910															
Ballast = Electronic 120 v Ballast Factor = .914 S/MH = 1.1															
Comparative yearly lighting energy cost per 1000 lumens = \$3.93 based on 3000 hrs. and \$.08 per KWH															

LIGHT DISTRIBUTION			
Zone	Lumens	%Lamp	%Fixture
0-30	2551	26.9	43.6
0-40	3779	43.4	65.6
0-60	5583	64.2	96.9
0-90	5762	66.2	100.0

TEP94 VERTICAL PRECISION PARABOLIC

TEP94 Vertical Precision Parabolics are designed to provide optimal illumination along a vertical plane, as is typically required by libraries, file areas and corridors.

Housing: Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Access plate providing two KO's and ground screw.

Shielding: Specular aluminum parabolic louver, cell size nominal 2" deep, 8" wide. Installs to housing with torsion springs; access from either side. Choice of 16 cell or 12 cell.

Electrical: Fully wired for 120V, 60 Hz AC operation with thermally protected, automatic resetting, energy saving, Class P, sound rated A ballast, unless otherwise specified. Electronic T8 is reduced harmonic. ETL-CBM approved. U.L. listed.

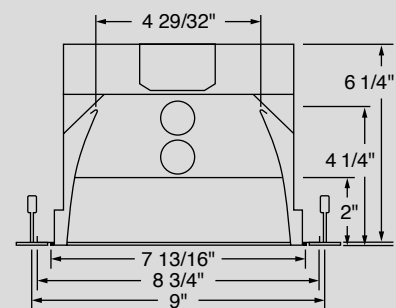
Mounting: Lay-in (T) troffer. Use GCK kit for sheetrock or plaster ceilings.

NOTE

- See pages 58 through 63 for additional information.



TEP94



PARABOLIC

Photometric Data 2-32W 9"x 4' Over/Under Model

CANDLEPOWER				LIGHT GUIDE (T8 LAMPS AND ELECTRONIC BALLAST)						COEFFICIENT OF UTILIZATION														
Angle	0	45	90	Footcandles	Area/fixture in sq.ft./lg. room, good conditions - 8' to 10' ceilings				RC	80	70	50	30	70	50	30	50	30						
					1-32W			2-32W O/U		RW														
0	1096	1096	1096	35	44			82		RCR														
5	1088	1109	1122	50	31			58		1	75	73	71	74	71	69	68	67						
15	1039	1155	1241	75	21			38		2	70	65	62	68	64	61	62	59						
25	960	1225	1498	100	15			29		3	65	59	54	63	58	53	56	52						
35	841	1422	1928	AVERAGE LUMINANCE				TYPICAL V.C.P.s				4	59	52	47	58	51	47	50	46				
45	690	1488	1472	CD/SQ.M				Room Size				Mounting Height				5	54	46	41	53	46	41	44	40
55	501	958	1274	Angle	0	45	90	Lengthwise				Crosswise				6	50	41	36	48	41	35	39	35
65	36	272	135	45	4884	10533	10419	8.5				10				7	45	37	31	44	36	31	35	30
75	5	6	5	55	4372	8360	11117	79				72				8	41	32	27	40	32	26	31	26
85	1	1	0	65	426	3221	1599	60x30				68				9	38	29	23	37	28	23	27	22
90	0	0	0	75	97	116	97	60x60				73				10	35	26	20	34	25	20	25	20
				85	57	57	0	100x100				63				LIGHT DISTRIBUTION								
				Lamps = (2) F32 T8 @ 2900 lumens ea. Input Watts = 54.3 LER = FP63.5 Test #02344												Zone	Lumens	%Lamp	%Fixture					
				Ballast = Electronic Ballast Factor = .88 S/MH: 0° = 1.2; 90° = 2.0												0-30	1006	17.3	25.7					
				Comparative yearly lighting energy cost per 1000 lumens = \$ 3.78												0-40	1883	32.5	48.0					
				based on 3000 hrs. and \$.08 per KWH												0-60	3696	63.7	94.2					

Ordering Information

T	EP	94	232	B11	O/U*	16C	120V
MOUNTING	SIZE	LAMPS	BALLAST	SPECIAL FEATURE	VOLTAGE	CELL	
T - Lay-in	94 - 9" x 48"	132 - (1) 32W 48" T8 232 - (2) 32W 48" T8	B11 - Electronic T8	O/U - Over/under stacked lamps (delete for single lamp model) *Specify switching	120 277	12C - 12 cells 16C - 16 cells	
LOUVER							
EP - 2" deep louver blade, nominal 8" wide							

TROFFERS

SIMKAR
CORPORATION

CRT/VDT LOUVER WITH OVERLAY

Simkar Lay-In Troffers are versatile, efficient fixtures available in many lamp configurations. TWENTY-ONE design features make SIMKAR's 3 3/4" troffer the best on the market.



SIMKAR's new technology ensures sure firing of U-bend lamps – first time, every time



TT 244

1. Top embossments for strength.
2. Ballast embossment provides full contact for superior heat dissipation.
3. Strengthening ribs on sides.
4. Full access plate with double KOs. Screws included.
5. Two built in T-bar clips on 2' wide models.
6. End plate attachment with screws, not tabs.
7. Upturned side rail edge for rigidity and safer handling.
8. Mitered door corners, for better fit than overlap corners.
9. Improved large cam latches open door with ease. No tools needed!
10. Full depth 1/2" door accepts 1/2" louver without notching.
11. Built-in lens retainers.
12. Door end screws — not tabs! — for strength and easy lens replacement.
13. Built-in door hinge on side rail. No pop rivets.
14. Ample ballast cover tabs prevent pinched wires.
15. Metal light traps instead of gasket that deteriorates.
16. Passes torque test for strength and minimal overall sag.
17. Superb lamp spacing: 4 1/8" centers are widest in industry. No hot spots! Allows lamp removal in any order.
18. Lamp-pin slots for ease of lamp installation.
19. Socket bar held in place with slot tab and screw — removable from inside fixture.
20. Hemmed end plate. Double-thick fold adds strength and eliminates sharp edge.
21. Machine installed shunts eliminate loose socket bar connections on electronic troffers.

Housing: Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Flush white steel door frame with mitered corners that can be hinged from either side. Swing-action cam latches provide positive fit. Light traps standard. Access plate providing two KOs and ground screw.

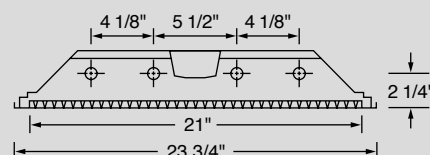
Option: Silver or gold durabolic and semi-specular finishes available. Specify TT, FT, TTJ5 for CRT louver with white transmission overlay.

Electrical: Fully wired for 120V, 60 Hz AC operation with ETL-CBM, thermally protected, automatic resetting, energy saving, Class P, high-power-factor ballast, unless otherwise specified. Sound rated A ballast. U.L. listed.

Mounting: Lay-in (T) or Flange (F) troffer. 2 x 2 and 2 x 4 flanged fixtures require field assembly.

NOTES

- See pages 58 through 63 for additional information.
- See page 22 for photometric data.



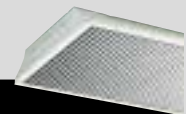
Ordering Information

T	J	—	244	332	B11	—	120V
MOUNTING	SPEC DOOR	SIZE	LAMPS	BALLAST	SPECIAL FEATURE	VOLTAGE	
F - Flange T - Lay-in XF - Powder coat, flange XT - Powder coat, lay-in	Flat steel, white, standard FW - Flat aluminum, white RB - Regressed black RW - Regressed white	124 - 1 x 4 242 - 2 x 2 244 - 2 x 4 484 - 4 x 4	232 - (2) 32W 48" T8 232U - (2) 32W U6" T8* 240 - (2) 34 or 40W 48" T12 240U - (2) 40W U6" T12 240TT - (2) 40W 22" TT 332 - (3) 32W 48" T8 332U - (3) 32W U 1 5/8" T8 340 - (3) 34 or 40W 48" T12 432 - (4) 32W 48" T8 440 - (4) 34 or 40W 48" T12	B10 - Magnetic TT B11 - Electronic T8 B14 - Electronic TT E1 - Magnetic T12	Reflectors, see page 59 FL - Flex, see page 62 Air handling, see page 61 B - Black door G - Gold durabolic S - Silver specular, standard SD - Silver durabolic SM - Silver semi-specular	120 277	
LOUVER							
Specify silver or gold finish J - 3/4" x 3/4" x 1/2" Double Wedge Cell J5 - 3/4" x 3/4" x 3/8" Shallow Wedge T - 3/4" x 3/4" x 1/2" Double Wedge Cell CRT Overlay TJ5 - 3/4" x 3/4" x 3/8" Shallow Wedge CRT Overlay							

* For 1 5/8" please specify

CRT/VDT LOUVER OPTIONS

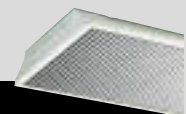
TT, FT HIGH VISUAL COMFORT LOUVER: 3/4" x 3/4" x 1/2" cell specular silver parabolic louver, CRT/PL3 with high transmission overlay directs light down to work surface while overlay reduces glare. 36° shielding from all angles.



Photometric Data 2x4, 4-32W Specular Silver

CANDLEPOWER				LIGHT GUIDE (T8 LAMPS AND ELECTRONIC BALLAST)							COEFFICIENT OF UTILIZATION												
Angle	0	45	90	Footcandles		Area/fixture in sq.ft./lg. room, good conditions - 8' to 10' ceilings					RC	80	70			50							
						2-"U" 6"		3-32W			4-32W			RW	70	50	30	70	50	30	50	30	
						2-"U" 6"		3-32W			4-32W			RCR									
0	3192	3192	3192	35	76				121			155			1	70	68	66	68	66	65	64	62
5	3190	3182	3187	50	54				85			109			2	65	62	58	64	60	58	58	56
15	3056	3096	3142	75	36				57			72			3	61	56	52	59	55	51	53	50
25	2795	2893	2995	100	27				45			54			4	56	50	46	55	50	45	48	45
35	2378	2538	2669	AVERAGE LUMINANCE					TYPICAL V.C.P.s														
45	1852	1981	2124	CD/SQ.M					Room Size					Mounting Height									
55	1303	1359	1403	Angle	0	45	90	Room Size	Lengthwise			Crosswise											
65	104	197	133	45	4196	4595	4926	30x30	8.5	10	8.5	10											
75	0	0	0	55	3726	3886	4012	40x40	82	77	80	76											
85	0	0	0	65	404	756	516	60x30	82	78	80	76											
90	0	0	0	75	0	0	0	60x60	82	78	80	77											
				85	0	0	0	100x100	82	78	81	77											
				Lamps = (4) F32 T8 @ 2850 lumens ea. Input Watts = 101.9 LER = FP56.4 Test #02876												LIGHT DISTRIBUTION							
				Ballast = 1-4 Light Electronic Ballast Factor = .806 S/MH: 1.2° = 1.2; 90° = 1.3												Zone	Lumens	%Lamp	%Fixture				
				Comparative yearly lighting energy cost per 1000 lumens = \$4.26												0-30	2513	22.0	35.3				
				based on 3000 hrs. and \$.08 per KWH												0-40	4094	35.9	57.4				
																0-60	6837	60.0	95.9				
																0-90	7127	62.5	100.0				

TJ, FJ DOUBLE WEDGE PARABOLIC: 3/4" x 3/4" x 1/2" cell specular silver parabolic louver, PL3, efficiently directs light to work surface. Double wedge cell. 35° shielding from all angles.



Photometric Data 2x4, 4-32W Specular Silver

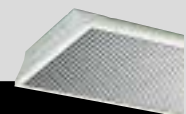
CANDLEPOWER				LIGHT GUIDE (T8 LAMPS AND ELECTRONIC BALLAST)							COEFFICIENT OF UTILIZATION								
Angle	0	45	90	Footcandles	Area/fixture in sq.ft./lg. room, good conditions - 8' to 10' ceilings			RC	80	70	50	30	70	50	30	50	30		
					2-"U" 6"			3-32W	4-32W	RW	70	50	30	70	50	30	50	30	
0	3165	3165	3165	35	82	132	166	RCR		1	75	73	71	73	71	69	68	67	
5	3151	3164	3175	50	58	92	117			2	70	66	62	68	65	62	62	60	
15	3019	3093	3149	75	38	62	78			3	65	60	55	64	59	55	57	53	
25	2777	2909	3010	100	29	46	58			4	60	54	49	59	53	48	51	47	
35	2430	2636	2826							5	55	48	43	54	47	42	46	42	
45	1991	2275	2502							6	51	43	38	50	43	38	41	37	
55	1394	1671	1630							7	47	39	33	46	38	33	37	33	
65	93	237	116							8	43	35	29	42	34	29	33	29	
75	0	0	0							9	40	31	26	39	31	25	30	25	
85	0	0	0							10	37	28	23	36	28	23	27	22	
90	0	0	0																

AVERAGE LUMINANCE				TYPICAL V.C.P.s				
CD/SQ.M				Room Size				
Angle	0	45	90	Mounting Height				
				Lengthwise	Crosswise			
45	4618	5277	5803	30x30	8.5	10	8.5	10
55	3986	4778	4661	40x40	79	75	77	73
65	361	920	450	60x30	80	75	77	73
75	0	0	0	60x60	80	75	77	73
85	0	0	0	100x100	80	76	78	73

Lamps = (4) F32 T8 @ 2850 lumens ea. Input Watts = 101.6 LER = FP60.7 Test #02874
Ballast = 1-4 Light Electronic Ballast Factor = .800 S/MH: 0° = 1.2; 90° = 1.4
Comparative yearly lighting energy cost per 1000 lumens = \$3.95
based on 3000 hrs. and \$.08 per KWH

LIGHT DISTRIBUTION			
Zone	Lumens	%Lamp	%Fixture
0-30	2516	22.1	32.9
0-40	4168	36.6	54.4
0-60	7342	64.4	95.9
0-90	7654	67.1	100.0

TJ5, FJ5 HIGH EFFICIENCY LOUVER: 3/4" x 3/4" x 3/8" cell specular silver parabolic louver, PL5, efficiently directs light to work surface. Shallow wedge cell with good VCP. 28° shielding from all angles.



Photometric Data 2x4, 4-32W Specular Silver

CANDLEPOWER				LIGHT GUIDE (T8 LAMPS AND ELECTRONIC BALLAST)							COEFFICIENT OF UTILIZATION									
Angle	0	45	90	Footcandles		Area/fixture in sq.ft./lg. room, good conditions - 8' to 10' ceilings					RC	80			70			50		
						2-"U" 6"		3-32W		4-32W		RW	70	50	30	70	50	30	50	30
						2-"U" 6"		3-32W		4-32W		RCR								
0	3265	3265	3265	35	84			135		171		1	78	77	73	76	74	72	71	69
5	3252	3258	3270	50	59			95		120		2	72	68	65	71	67	64	65	62
15	3110	3182	3238	75	39			63		80		3	67	62	57	66	61	56	59	55
25	2863	2981	3089	100	30			47		60		4	62	55	50	61	54	50	53	49
35	2508	2707	2892									5	57	50	44	56	49	44	47	43
45	2045	2338	2587									6	53	45	39	52	44	39	43	38
55	1443	1782	2019									7	49	40	34	47	39	34	38	34
65	42	271	55									8	45	36	30	44	35	30	34	30
75	0	0	0									9	41	32	26	40	31	26	31	26
85	0	0	0									10	38	29	23	37	29	23	28	23
90	0	0	0																	

AVERAGE LUMINANCE				TYPICAL V.C.P.s				
CD/SQ.M				Room Size				
Angle	0	45	90	Mounting Height				
				Lengthwise	Crosswise			
45	4743	5423	6000	30x30	8.5	10	8.5	10
55	4126	5095	5773	40x40	80	71	77	71
65	163	1052	213	60x30	80	71	78	71
75	0	0	0	60x60	81	72	78	71
85	0	0	0	100x100	81	72	78	71

Lamps = (4) F32 T8 @ 2850 lumens ea. Input Watts = 101.5 LER = FP62.9 Test #02875
Ballast = 1-4 Light Electronic Ballast Factor = .806 S/MH: 0° = 1.2; 90° = 1.4
Comparative yearly lighting energy cost per 1000 lumens = \$3.82
based on 3000 hrs. and \$.08 per KWH

LIGHT DISTRIBUTION			
Zone	Lumens	%Lamp	%Fixture
0-30	2588	22.7	32.7
0-40	4285	37.6	54.1
0-60	7620	66.8	96.2
0-90	7919	69.5	100.0

VERSATILE TROFFER AND LENS

SIMKAR Lay-In Troffers are versatile, efficient fixtures available in many lamp configurations. TWENTY-ONE design features make SIMKAR's 3 3/4" troffer the best on the market.

Housing: Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Flush white steel door frame with mitered corners that can be hinged from either side. TE - black flush steel door frame. Swing-action cam latches provide positive fit. Light traps standard. Access plate providing 2 KO's and ground screw.

Shielding: A variety of acrylic lens and louvers available. Silver or gold durabolic, specular, and semi-specular louver finishes available.

Electrical: Fully wired for 120V, 60 Hz AC operation with ETL-CBM, thermally protected, automatic resetting, energy saving, Class P, high-power-factor ballast, unless otherwise specified. Sound rated A ballast, except slimline and high-output models. U.L. listed.

Mounting: Lay-in (T) or Flange (F) troffer.

NOTES

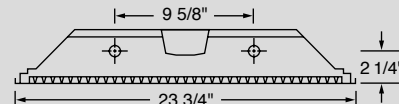
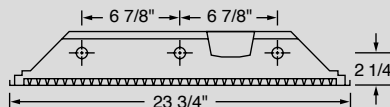
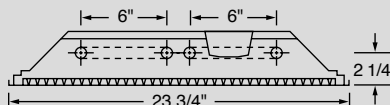
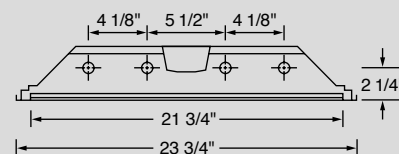
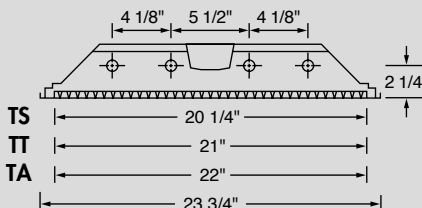
- See pages 58 through 63 for additional information.
- See page 24 for photometric data.



SIMKAR's new technology ensures sure firing of U-bend lamps – first time, every time



TY-244



TROFFERS

Ordering Information

T	Y	—	244	332	B11	20G	120V
MOUNTING	SPEC DOOR	SIZE	LAMPS	BALLAST	SPECIAL FEATURE	VOLTAGE	
T - Lay-In	FW - Flat white	122 - 1 x 2	131 - (1) 31W U6" T8	B10 - Magnetic TT	20G - 20 gauge (2 x 2	120	
F - Flange	aluminum	124 - 1 x 4	217 - (2) 17W 24" T8	B11 - Electronic T8	and 2 x 4 only)	277	
XF - Powder coat, flange	RB - Regressed black	242 - 2 x 2	232U - (2) 32W U6" T8**	B14 - Electronic TT	FL - Flex, see page 62		
XT - Powder coat, lay-in	RW - Regressed white	244 - 2 x 4	232 - (2) 32W 48" T8	E1 - Magnetic T12	Heat return option, see page 61		
	WF - White steel	484 - 4 x 4	240 - (2) 34 or 40W 48" T12		L - Lamps		
			240U - (2) 40W U6" T12		Reflectors, see page 59		
			240TT - (2) 40W 22" TT		B - Black door		
			332U - (3) 32W U 1 5/8" T8		G - Gold durabolic		
			332 - (3) 32W 48" T8		S - Silver specular (standard)		
			340 - (3) 34 or 40W 48" T12		SD - Silver durabolic		
			340TT - (3) 34 or 40W 22" TT		SM - Silver semi-specular		
			432 - (4) 32W 48" T8				
			440 - (4) 34 or 40W 48" T12				
LOUVER/LENS							
A - 1/2" x 1/2" x 1/2" cell*							
B - .125 clear prismatic acrylic polycarbonate							
E - 1 x 4 with 26 cells (2 rows of 13)*							
2 x 2 with 36 cells (6 rows of 6)*							
2 x 4 with 78 cells (6 rows of 13)*							
K - .125 clear prismatic acrylic							
L - 1/2" x 1/2" x 1/2" egg crate, white*							
P - Acrylic drop dish							
S - 1/2" x 1 1/2" x 1"							
X - Parahex louver							
Y - Clear prismatic acrylic							
* Specify silver or gold finish ** For 1 5/8" please specify							

VERSATILE TROFFER AND LENS

TE, XTE, FE, XFE SERIES PARABOLIC: Semi-specular aluminum parabolic louver, 3 1/2" square.

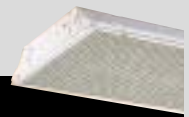


Photometric Data 3-32W 2x4 Model

CANDLEPOWER				LIGHT GUIDE (T8 LAMPS AND ELECTRONIC BALLAST)								COEFFICIENT OF UTILIZATION							
Angle	0	45	90	Footcandles	Area/fixture in sq.ft./lg. room, good conditions - 8' to 10' ceilings				RC	80	70			50					
					2-6" U	2-32W 1x4	3-32W	4-32W	RW	70	50	30	70	50	30	50	30		
0	2009	2009	2009	35	76	72	120	154	RCR										
5	1997	2009	2013	50	54	50	84	108	1	71	69	67	70	68	66	65	63		
15	1911	1940	1992	75	36	34	56	72	2	66	62	59	65	61	58	59	56		
				100	27	25	42	54	3	61	56	52	60	55	51	53	50		
25	1761	1892	2077	AVERAGE LUMINANCE				TYPICAL V.C.P.s											
35	1547	1828	2047	CD/SQ.M				Room Size	Mounting Height										
45	1262	1669	2241	Angle	0	90	Lengthwise	Crosswise											
55	872	1396	1725	45	918	1613	8.5	10	8.5	10									
				55	782	1547	30x30	88	82	84	77								
65	164	363	178	65	200	217	40x40	90	86	87	82								
				75	54	76	60x30	89	85	86	80								
75	27	31	38	85	30	24	60x60	91	88	88	85								
							100x100	91	88	88	85								
85	5	5	4	Lamps = (3) F32 T8 @ 2850 lumens ea. Input Watts = 105.9 LER = FP46.9 Test #00246															
				Ballast = Electronic 120 V Ballast Factor = .88 S/MH: 0° = 1.2; 90° = 1.6															
90	1	0	0	Comparative yearly lighting energy cost per 1000 lumens = \$5.12															
				based on 3000 hrs. and \$.08 per KWH															
				LIGHT DISTRIBUTION															
				Zone	Lumens	%Lamp	%Fixture												
				0-30	1623	18.7	29.1												
				0-40	2753	31.6	49.3												
				0-60	5237	60.2	93.8												
				0-90	5584	64.2	100.0												

Lamps = (3) F32 T8 @ 2850 lumens ea. Input Watts = 105.9 LER = FP46.9 Test #00246
Ballast = Electronic 120 V Ballast Factor = .88 S/MH: 0° = 1.2; 90° = 1.6
Comparative yearly lighting energy cost per 1000 lumens = \$5.12
based on 3000 hrs. and \$.08 per KWH

TA, FA SERIES SMALL CELL LOUVER: 1/2" x 1/2" x 1/2" cell specular silver parabolic louver, PL1.
44° shielding from all angles, excellent brightness control.

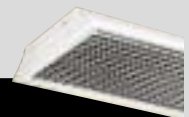


Photometric Data 4-32W 2x4 Model

CANDLEPOWER				LIGHT GUIDE (T8 LAMPS AND ELECTRONIC BALLAST)							COEFFICIENT OF UTILIZATION									
Angle	0	45	90	Footcandles			Area/fixture in sq.ft./lg. room, good conditions - 8' to 10' ceilings				RC 80		70		50					
					2-"U" 6"		3-32W		4-32W		RW 70	50	30	70	50	30	50	30		
0	3390	3390	3390	35	71		113		144		RCR									
5	3377	3402	3417	50	50		99		101		1	64	63	61	63	61	60	59		
15	3207	3312	3339	75	33		53		67		2	61	58	55	59	57	54	55		
25	2901	3036	3190	100	25		40		50		3	57	53	49	56	52	49	50		
35	2484	2685	2908	AVERAGE LUMINANCE				TYPICAL V.C.P.s				4		53	48	44	52	48		
45	1921	2177	2494	CD/SQ.M				Room Size				5				50	44	40	49	
55	275	544	311	Angle	0	45	90	Room Size	Mounting Height	Crosswise	6		46	40	36	45	40	36		
65	0	0	0	45	4161	4715	5402	30x30	8.5	10	8.5	10	7	43	36	32	42	36		
75	0	0	0	55	734	1453	830	40x40	87	93	84	91	8	40	33	29	36	33		
85	0	0	0	65	0	0	0	60x30	87	93	84	91	9	36	30	25	36	29		
90	0	0	0	75	0	0	0	60x60	88	93	85	92	10	34	27	23	33	27		
				85	0	0	0	100x100	88	93	85	92	LIGHT DISTRIBUTION							
				Lamps = (4) F32 T8 @ 2850 lumens ea. Input Watts = 100.1 LER = FP52.5 Test #02872 & 77								Zone		Lumens		%Lamp		%Fixture		
				Ballast = Electronic 120 v Ballast Factor = .525 S/MH: 0° = 1.2; 90° = 1.3								0-30		2664		23.4		40.9		
				Note: 2x2 model with 2-31W T8 U-6 has LER = FP49.5, Ballast Factor = .949, Input Watts = 55.8.								0-40		4348		38.1		66.7		
				Comparative yearly lighting energy cost per 1000 lumens: 2x2 = \$4.84 and 2x4 = \$4.57								0-60		6518		57.2		100.0		
												0-90		6519		57.2		100.0		

Lamps = (4) F32 T8 @ 2850 lumens ea. Input Watts = 100.1 LER = FP52.5 Test #02872 & 77
Ballast = Electronic 120 V Ballast Factor = .525 S/MH: 0° = 1.2; 90° = 1.3
Note: 2x2 model with 2-31W T8 U-6 has LER = FP49.5, Ballast Factor = .949, Input Watts = 55.8.
Comparative yearly lighting energy cost per 1000 lumens: 2x2 = \$4.84 and 2x4 = \$4.57

TS, FS SERIES 1 1/2" SUPERCUBE LOUVER: 1 1/2" x 1 1/2" x 1" cell specular silver parabolic louver, PL2.
38° shielding from all angles, excellent brightness control.



Photometric Data 4-32W 2x4 Model

CANDLEPOWER				LIGHT GUIDE (T8 LAMPS AND ELECTRONIC BALLAST)							COEFFICIENT OF UTILIZATION										
Angle	0	45	90	Footcandles		Area/fixture in sq.ft./lg. room, good conditions - 8' to 10' ceilings					RC 80		70		50						
						2-"U" 6"		3-32W		4-32W		RW 70	50	30	70	50	30	50	30		
0	2995	2995	2995	35	57			91		116		RCR									
5	2991	3006	3019	50	40			63		81		1	63	61	59	61	60	58	57	56	
15	2868	3010	3052	75	27			42		54		2	59	56	53	58	55	52	53	51	
25	2625	2840	2963	100	20			32		41		3	55	51	48	54	50	47	49	46	
35	2277	2598	2793	AVERAGE LUMINANCE				TYPICAL V.C.P.s													
45	1803	2229	2554	CD/SQ.M				Room Size		Mounting Height											
55	237	778	449	Angle	0	45	90	Lengthwise	Crosswise												
65	1	0	0	45	4440	5490	6290	8.5	10	8.5	10										
75	0	0	0	55	720	2362	1363	30x30	84	90	80	87									
85	0	0	0	65	4	0	0	40x40	84	91	80	87									
90	0	0	0	75	0	0	0	60x30	84	91	80	87									
				85	0	0	0	60x60	85	91	81	87									
								100x100	85	91	81	87									
				Lamps = (4) F32 T8 @ 2850 lumens ea. Input Watts = 101.5 LER = FP50.4 Test #02873																	
				Ballast = Electronic Ballast Factor = .806 S/MH: 0° = 1.2; 90° = 1.4																	
				Comparative yearly lighting energy cost: 2x2 = \$5.50, 2x4 = \$4.76																	
				Note: 2x2 model with 2-31W T8 U-6, LER = FP43.6 Ballast Factor = 94.9% Input Watts = 55.8																	
																LIGHT DISTRIBUTION					
				Zone		Lumens		%Lamp		%Fixture											
				0-30		2436		21.4		38.4											
				0-40		4050		35.5		63.8											
				0-60		6348		55.7		100.0											
				0-90		6349		55.7		100.0											

Lamps = (4) F32 T8 @ 2850 lumens ea. Input Watts = 101.5 LER = FP50.4 Test #02873
Ballast = Electronic Ballast Factor = .806 S/MH: 0° = 1.2; 90° = 1.4
Comparative yearly lighting energy cost: 2x2 = \$5.50, 2x4 = \$4.76
Note: 2x2 model with 2-31W T8 U-6, LER = FP43.6 Ballast Factor = 94.9% Input Watts = 55.8

VERSATILE TROFFER AND LENS

TY, FY TROFFER SERIES PRISMATIC: Pattern A12 prismatic lens.

Photometric Data 4-32W 2x4 Model

CANDLEPOWER				LIGHT GUIDE (T8 LAMPS AND ELECTRONIC BALLAST)								COEFFICIENT OF UTILIZATION											
Angle	0	45	90	Footcandles		Area/fixture in sq.ft./lg. room, good conditions - 8' to 10' ceilings						RC	80					70					50
						1 x 4 (2) 32W	2-"U" 6"	3-32W		4-32W		RW	70	50	30	70	50	30	50	30			
												RCR											
0	3970	3970	3970	35	78	86		149	202			1	91	87	84	89	85	83	82	80			
5	3955	3954	3966	50	54	60		105	141			2	84	78	73	82	76	72	74	70			
15	3801	3840	3888	75	36	40		70	94			3	77	70	64	76	69	63	66	62			
25	3463	3573	3675	100	27	30		52	71			4	71	63	56	70	62	56	60	54			
35	2914	3063	3249	AVERAGE LUMINANCE				LIGHT DISTRIBUTION				5	66	56	49	64	55	49	54	48			
45	2139	2308	2450	CD/SQ.M				Zone	Lumens	%Lamp	%Fixture	6	61	51	44	59	50	43	49	43			
55	1388	1471	1579	Angle	0	45	90	0-30	3107	26.8	32.6	7	56	46	39	55	45	39	44	38			
65	814	675	863	45	4738	5112	5426	0-40	5024	43.3	52.6	8	52	41	34	51	41	34	49	34			
75	512	386	516	55	3790	4017	4311	0-60	8118	70.0	85.1	9	48	37	30	47	37	30	36	30			
85	192	176	194	65	3017	2501	3198	0-90	9544	82.3	100.0	10	44	34	27	43	33	27	33	27			
90	25	26	33	75	3098	2336	3122	Lamps = (4) F32 T8 @ 2850 lumens ea. Input Watts = 144.5 LER = FL57.1 Test #00793															
				85	3450	3163	3486	Ballast = Electronic Ballast Factor = .88 S/MH: 0° = 1.2; 90° = 1.3															
				Comparative yearly lighting energy cost per 1000 lumens = \$4.20 based on 3000 hrs. and \$.08 per KWH																			

TY, FY TROFFER SERIES PRISMATIC: Pattern A12 prismatic lens.

2X4 - SR T8 (#00853)

Photometric Data

2X2 - "U" 6 T8 (#02879)

CANDLEPOWER				COEFFICIENT OF UTILIZATION										CANDLEPOWER				COEFFICIENT OF UTILIZATION									
Angle	0	45	90	RC RW RCR	80 70	50	30	70	50	30	50	30	Angle	0	45	90	RC RW RCR	80 70	50	30	70	50	30	50	30		
0	2319	2319	2319										0	1629	1629	1629											
5	2304	2293	2289	1	94	91	88	92	89	86	85	83	5	1623	1621	1625	1	77	74	72	75	73	70	70	68		
15	2179	2137	2123	2	87	81	76	85	80	75	77	73	15	1557	1575	1593	2	71	66	62	70	65	61	63	60		
25	1924	1903	1929	3	81	73	67	79	72	66	69	65	25	1416	1464	1510	3	66	60	55	64	59	54	57	53		
35	1556	1592	1688	4	75	66	59	73	65	58	63	57	35	1180	1249	1331	4	61	54	48	59	53	48	51	47		
45	1095	1195	1218	5	69	59	52	67	58	52	56	41	45	840	931	1011	5	56	48	42	55	47	42	46	41		
55	677	722	744	6	64	53	46	62	53	46	51	45	55	532	580	635	6	52	43	38	51	43	37	42	37		
65	403	322	411	7	59	48	41	58	48	41	46	41	65	305	263	335	7	48	39	33	47	39	33	38	33		
75	264	193	258	8	55	44	37	53	43	37	42	36	75	195	151	209	8	44	35	30	43	35	29	34	29		
85	103	87	98	9	50	39	33	49	39	32	38	32	85	74	66	84	9	41	32	26	40	31	26	31	26		
90	6	14	16	10	47	36	29	46	36	29	35	29	90	10	11	13	10	38	29	24	37	29	23	28	23		
LIGHT DISTRIBUTION				AVERAGE LUMINANCE										LIGHT DISTRIBUTION				AVERAGE LUMINANCE									
Zone	Lumens	%Lamp	%Fixture	CD/SQ.M										Zone	Lumens	%Lamp	%Fixture	CD/SQ.M									
0-30	1704	29.4	34.4	Angle	0			45			90			0-30	1274	23.2	33.1	Angle	0			45			90		
0-40	2706	46.6	54.6	45	2425			2625			2698			0-40	2055	37.4	53.4	45	3804			4216			4578		
0-60	4249	73.3	85.8	55	1849			1971			2031			0-60	3293	59.9	55.6	55	2970			3238			3545		
0-90	4953	85.4	100.0	65	1493			1193			1523			0-90	3848	70.0	100.0	65	2311			1993			2538		
				75	1597			1168			1561							75	2413			1868			2586		
				85	1851			1563			1761							85	2719			2425			3086		

TK, FK TROFFER SERIES PRISMATIC: .125 clear deep cut acrylic prismatic #12 pattern lens.

Photometric Data 4-32W 2x4 Model

CANDLEPOWER				LIGHT GUIDE (T8 LAMPS AND ELECTRONIC BALLAST)							COEFFICIENT OF UTILIZATION									
Angle	0	45	90	Footcandles		Area/fixture in sq.ft./lg. room, good conditions - 8' to 10' ceilings					RC	80			70			50		
					1x4		3-32W		4-32W		RW	70	50	30	70	50	30	50	30	RCR
0	3303	3303	3303	35	76		128		166		1	82	79	76	80	77	75	74	72	
5	3279	3293	3300	50	54		90		117		2	76	70	66	74	69	65	66	63	
15	3163	3218	3255	75	36		60		78		3	70	63	58	68	62	57	60	56	
25	2920	3046	3134	100	27		45		58		4	64	56	51	63	56	50	54	49	
35	2516	2738	2884	AVERAGE LUMINANCE				LIGHT DISTRIBUTION				5	59	50	44	58	50	44	48	43
45	1945	2197	2361	CD/SQ.M				Zone	Lumens	%Lamp	%Fixture	6	55	45	39	53	45	39	43	38
55	1243	1396	1519	Angle	0	90	0-30	2623	23.0	30.9	7	50	41	35	49	40	34	39	34	
65	654	692	766	45	4284	5201	0-40	4323	37.9	51.0	8	46	37	31	45	36	30	35	30	
75	365	331	380	55	3375	4125	0-60	7241	63.5	85.4	9	43	33	27	42	32	27	32	26	
85	143	133	152	65	2410	2823	0-90	8477	74.4	100.0	10	40	30	24	39	30	24	29	24	
90	22	21	30	Lamps = (4) F32 T8 @ 2850 lumens ea. Input Watts = 100.3 LER = FL50.8 Test #03421 Ballast = Electronic 120V Ballast Factor = 80.8 S/MH: 0° = 1.2; 90° = 1.4 Comparative yearly lighting energy cost per 1000 lumens = \$4.72 based on 3000 hrs. and \$.08 per KWH																

TY66 CUBE

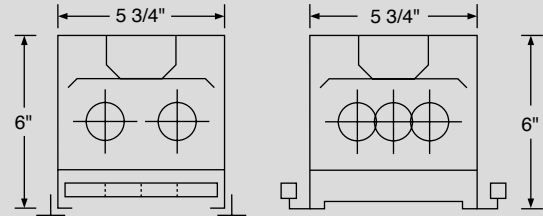
SIMKAR's TY66 Cube is a recessed 6" x 6" troffer, with either an acrylic prismatic diffuser or aluminum baffle louver, ideal for lobbies and corridors.

Housing: Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. End knockouts for through wire.

Shielding: Pattern A-12 prismatic acrylic lens.

Electrical: Fully wired for 120V, 60 Hz AC operation with ETL-CBM, thermally protected, automatic resetting, energy efficient, Class P, high power factor, sound rated A ballast, unless otherwise specified. U.L. listed, damp and dry locations.

Mounting: Lay-in for T-bar ceilings. Specify F for flanged unit. Flanged units require field assembly.



Photometric Data 2-32W

CANDLEPOWER				LIGHT GUIDE (T8 LAMPS AND ELECTRONIC BALLAST)								COEFFICIENT OF UTILIZATION											
Angle	0	45	90	Footcandles	Area/fixture in sq.ft./lg. room, good conditions - 8' to 10' ceilings							RC	80	70			50						
					2 Lamp							RW	70	50	30	70	50	30	50	30			
0	1394	1394	1394	35	57							RCR											
5	1384	1392	1383	50	40							1	56	54	52	55	53	51	51	49			
15	1335	1317	1301	75	26							2	52	48	45	51	47	45	46	43			
25	1217	1193	1164	100	20							3	48	44	40	47	43	40	41	39			
35	1027	973	913	AVERAGE LUMINANCE				TYPICAL V.C.P.s				4	44	39	35	43	39	35	37	34			
45	728	678	602	CD/SQ.M				Room Size				5	41	35	31	40	35	31	34	30			
55	455	411	375	Angle	0	45	90	Mounting Height				6	38	32	28	37	32	28	31	27			
65	247	189	210	45	7387	6880	6109	Lengthwise				7	35	29	25	34	29	25	28	24			
75	154	108	123	55	5692	5142	4691	Crosswise				8	33	26	22	32	26	22	25	12			
85	49	32	28	65	4194	3209	3565	30x30	43	46	46	49	9	30	24	20	29	23	20	13			
90	8	2	2	75	4269	2994	3410	40x40	39	42	44	45	10	28	22	18	27	21	18	18			
				85	4034	2635	2305	60x30	46	50	48	51	LIGHT DISTRIBUTION										
								60x60	37	38	42	43	Zone	Lumens	%Lamp	%Fixture							
								100x100	38	37	44	43	0-30	1051	18.1	36.0							
				Lamps = (2) F32T8 @ 2900 lumens ea. Input Watts = 56.2 LER = Test # 02122												0-40	1656	28.6	56.7				
				Ballast = Electronic 120 v Ballast Factor = .00 S/MH: 0° = 0.0; 90° = 0.0												0-60	2544	43.9	87.0				
				Comparative yearly lighting energy cost per 1000 lumens = \$0.00												0-90	2923	50.4	100.0				
				based on 3000 hrs. and \$.08 per KWH																			

Ordering Information

T	Y	66	232		B11	120V
MOUNTING	LENS	SIZE	LAMPS	OPTION	BALLAST	VOLTAGE
T - Lay-in F - Flange	E - Aluminum baffle, semi-specular Y - Acrylic prismatic	66 - 6" x 6"	217 - (2) 17W 24" T8 232 - (2) 32W 48" T8	ELS - Emergency Lighting System, see page 62	B4 - Magnetic T8 B11 - Electronic T8 DIM - Dimmable	120 277
						SPECIAL FEATURE
						FL - Flex, see page 62

SEP SURFACE PARABOLIC

SIMKAR's SEP Surface Parabolic is the solution for spaces where recessed units cannot be used. The SEP is ideal for retail or commercial environments, providing a touch of character and style. It looks great suspension mounted.

Housing: Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. See back cover for post paint color options. Housing available in wood tones. Specify oak or walnut. Knockouts provided for continuous row mounting.

Shielding: Uniform low brightness in 60°- 90° zone achieved with 3" deep low iridescence, anodized semi-specular aluminum parabolic louver. Hinged louver door is held securely by cam latches and T hinges. Louver also available in white and gold.

Electrical: Fully wired for 120V, 60 Hz AC operation with ETL-CBM, thermally protected, automatic resetting, energy saving, Class P, high-power-factor ballast, unless otherwise specified. Sound rated A ballast. U.L. listed.

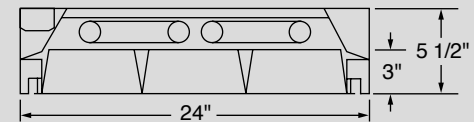
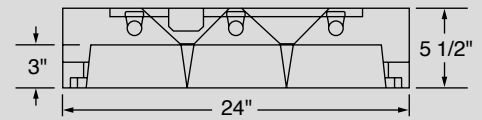
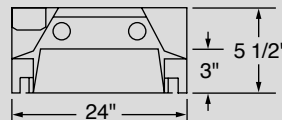
Mounting: Surface mount. Four stems required for suspension mounting.

NOTE

- See pages 58 through 63 for additional information.



SEP 244



Photometric Data 3-32W 2x4 Model

CANDLEPOWER				LIGHT GUIDE (T8 LAMPS AND ELECTRONIC BALLAST)				COEFFICIENT OF UTILIZATION									
Angle	0	45	90	Footcandles	Area/fixture in sq.ft./lg. room, good conditions - 8' to 10' ceilings			RC	80	70	50	30	70	50	30	50	30
					2-"U" 6"	2-32W 1x4	4-32W	RW	70	50	30	70	50	30	50	30	
0	2284	2284	2284	35	74	77	172	RCR	1	76	74	72	75	72	70	70	68
5	2271	2285	2305	50	52	54	120	2	71	67	63	69	65	62	63	60	
15	2164	2284	2397	75	35	36	80	3	66	60	56	64	59	55	57	54	
25	1987	2263	2524	100	26	27	60	4	61	54	49	59	53	48	52	47	
35	1730	2218	2754					5	56	48	43	55	48	43	46	42	
45	1393	1985	1274					6	52	43	38	50	43	38	42	37	
55	964	894	1200					7	48	39	34	47	39	33	38	33	
65	328	426	363					8	44	35	29	43	35	29	34	29	
75	32	40	38					9	40	31	26	39	31	26	30	25	
85	5	6	4					10	37	28	23	36	28	23	27	23	
90	1	0	1														

AVERAGE LUMINANCE				TYPICAL V.C.P.s				
CD/SQ.M				Room Size				
Angle	0	45	90	Mounting Height				
				Lengthwise	Crosswise			
45	3270	4660	2991	8.5	10	8.5	10	
55	2790	2587	3473	30x30	84	80	84	79
65	1288	1673	1426	40x40	87	84	87	83
75	205	257	244	60x30	86	83	86	82
85	95	114	76	60x60	89	86	88	86
				100x100	89	87	88	86

Lamps = (3) F32 T8 @ 2850 lumens ea. Input Watts = 109 LER = FP47.3 Test #01364			
Ballast = (2) Electronic 120 v Ballast Factor = .94 S/MH: 0° = 1.2; 90° = 1.6			
Comparative yearly lighting energy cost per 1000 lumens = \$5.07			
based on 3000 hrs. and \$.08 per KWH			

LIGHT DISTRIBUTION			
Zone	Lumens	%Lamp	%Fixture
0-30	1911	22.0	32.1
0-40	3305	38.0	55.5
0-60	5497	63.2	92.3
0-90	5957	68.5	100.0

SURFACE & WRAPAROUND

Ordering Information

S	EP	244	332	B11	SR	18C	120V
MOUNTING	WOOD	SIZE	LAMPS	BALLAST	SPECIAL FEATURE	VOLTAGE	
S - Surface	O - Oak Tone W - Walnut Tone	124 - 1 x 4 242 - 2 x 2 244 - 2 x 4	232 - (2) 32W 48" T8 232U - (2) 32W U6" T8* 240 - (2) 34 or 40W 48" T12 240TT - (2) 40W 22" TT 240U - (2) 40W U6" T12 332 - (3) 32W 48" T8 332U - (3) 32W U 1 5/8" T8 340 - (3) 34 or 40W 48" T12 340TT - (3) 40W 22" TT 432 - (4) 32W 48" T8 440 - (4) 34 or 40W 48" T12	B10 - Magnetic TT B11 - Electronic T8 B14 - Electronic TT E1 - Magnetic T12	CG - Gold louver CW - White louver L - Lamps SR - Silver reflector, see page 59	120 277	
3" LOUVER							CELLS
1 x 4 - 8 cell (one row) 2 x 2 - 9 cell 2 x 4 - 18 cell or 32 cell							8C - (1 x 4) 1 row of 8 9C - (2 x 2) 3 rows of 3 12C - (2 x 4) 2 rows of 6 18C - (2 x 4) 3 rows of 6 32C - (2 x 4) 4 rows of 8

* For 1 5/8" please specify

SURFACE & WRAPAROUND

SN990 GLARE REDUCING WRAPAROUND

SIMKAR's SN990 Glare Reducing Wraparound fixture is equipped with injection-molded acrylic basket diffuser with a flat bottom and vertical sides to provide uniform, low surface brightness.

Housing: Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Knockouts provided.

Shielding: Injection molded acrylic patterned prismatic for low surface brightness.

Electrical: Fully wired for 120V, 60 Hz AC operation with ETL-CBM, thermally protected, automatic resetting, energy saving, Class P, high-power-factor ballast, unless otherwise specified. Sound rated A ballast. U.L. listed, damp location.

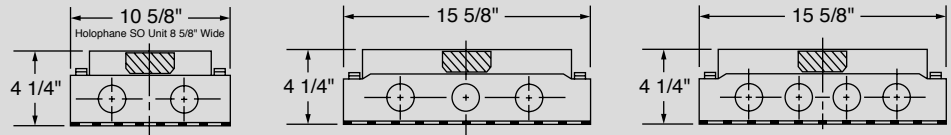
Mounting: Individual or continuous row stem or surface mount.



SN Series low brightness fixture

NOTE

- See pages 58 through 63 for additional information.



Photometric Data 2-32W 2x4 Model

CANDLEPOWER				LIGHT GUIDE (T8 LAMPS AND ELECTRONIC BALLAST)								COEFFICIENT OF UTILIZATION										
Angle	0	45	90	Footcandles		Area/fixture in sq.ft./lg. room, good conditions - 8' to 10' ceilings						RC	80	70	50	30	70	50	30	50	30	
					2-32W		3-32W		4-32W		RW	70	50	30	70	50	30	70	50	30		
0	1328	1328	1328	35	99.2		154.8		196.1		1	91	87	84	87	84	81	77	75			
5	1321	1334	1333	50	69.4		108.3		137.3		2	84	77	71	80	74	69	68	64			
15	1282	1335	1364	75	46.3		72.2		91.5		3	77	68	62	73	66	60	61	56			
25	1204	1315	1401	100	34.7		54.3		68.6		4	70	61	54	67	59	52	55	49			
35	1061	1262	1365	AVERAGE LUMINANCE CD/SQ.M						LIGHT DISTRIBUTION				5	65	54	47	62	52	45	49	43
45	849	1096	1183	Angle	0	45	90	Zone	Lumens	%Lamp	%Fixture	6	59	48	41	57	47	40	44	38		
55	534	597	730	45	3668	4036	4106	0-30	1188	19.4	22.4	7	55	43	36	52	42	35	39	33		
65	232	359	397	55	2844	2547	2877	0-40	1882	33.0	38.0	8	50	39	32	48	38	31	35	29		
75	129	246	328	65	1677	1889	1877	0-60	3270	57.4	66.0	9	46	35	28	44	34	27	32	26		
85	48	155	280	75	1523	1758	2014	0-90	4074	71.5	82.2	10	43	32	25	41	31	24	29	23		
90	2	117	277	85	1682	1813	2566	Lamps = 2 F32 @ 2850 lumens ea. Input Watts = 57.1 LER = FL81.2 Test #03149 Ballast = Electronic 120v Ballast Factor = 93.6 S/MH: 0° = 1.3; 90° = 1.5 Comparative yearly lighting energy cost per 1000 lumens = \$2.96 based on 3000 hrs. and \$.08 per KWH Four-lamp LER = FP76.8														

SURFACE & WRAPAROUND

Ordering Information

S	N	990	332	ELS	B11	120V
DIFFUSER	SERIES	LAMPS	OPTION	BALLAST	VOLTAGE	
N - Standard Lens 2L is 10 5/8" wide 3 and 4L are 15 5/8" wide O - Holophane Lens 2L is 8 5/8" wide 3 and 4L are 13 1/2" wide		232 - (2) 32W 48" T8 240 - (2) 34 or 40W 48" T12 332 - (3) 32W 48" T8 432 - (4) 32W 48" T8 440 - (4) 34 or 40W 48" T12 Tandem: 2232 - (4) 32W 48" T8 2240 - (4) 34 or 40 48" T12 2332 - (6) 32W 48" T8 2340 - (6) 34 or 40 48" T12 2432 - (8) 32W 48" T8 2440 - (8) 34 or 40 48" T12	ELS - Emergency lighting system, see page 62	B4 - Magnetic T8 if simplex clock is online B11 - Electronic T8 Also see page 58 E1 - Magnetic T12	120 277	

SY950 WRAPAROUND

SIMKAR's SY950 Wraparound with clear prismatic lens is available in 2- or 4-lamp models and tandem configurations, with either T8 or T12 lamps. All models are suitable for low-density ceiling mount applications.

Housing: Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Hinges from either side for easy maintenance.

Shielding: Clear prismatic acrylic with D.R.

Electrical: Fully wired for 120V, 60 Hz AC operation with ETL-CBM, thermally protected, automatic resetting, energy saving, Class P, high-power-factor ballast, unless otherwise specified. Sound rated A ballast. Knockouts provided. U.L. listed, damp location.

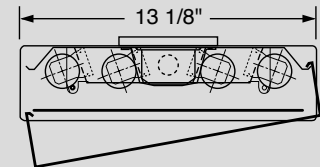
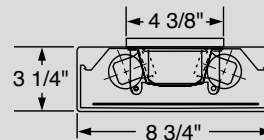
Mounting: Individual or continuous row stem or surface mount. See page 63 for stem mount accessories.

NOTE

- See pages 58 through 63 for additional information.



SY950
4 Lamp Diffuser
hinges from either side.



Photometric Data 2-32W 2x4 Model

CANDLEPOWER				LIGHT GUIDE (T8 LAMPS AND ELECTRONIC BALLAST)				COEFFICIENT OF UTILIZATION							
Angle	0	45	90	Footcandles	Area/fixture in sq.ft./lg. room, good conditions - 8' to 10' ceilings			RC	80	70	50	30	70	50	30
					2 Lamp 950		4 Lamp 950	RW	70	50	30	70	50	30	50
0	1549	1549	1549	35	92	175		RCR							
5	1543	1549	1555	50	64	124		1	81	77	74	78	75	72	70
15	1482	1523	1552	75	43	82		2	74	68	63	71	66	62	58
25	1373	1449	1470	100	32	62		3	68	61	55	66	59	54	51
35	1198	1256	1209					4	63	55	48	61	53	47	45
45	890	873	808					5	58	49	42	56	48	42	40
55	469	530	501					6	54	44	38	52	43	37	36
65	278	324	401					7	50	40	34	48	39	33	32
75	143	230	401					8	46	36	30	44	35	29	28
85	38	187	366					9	42	32	26	41	32	26	25
90	3	177	313					10	39	30	24	38	29	23	23

AVERAGE LUMINANCE				TYPICAL V.C.P.s			
CD/SQ.M				Room Size			
Angle	0	45	90	Mounting Height			
				Lengthwise Crosswise			
45	4811	4089	3581	8.5	10	8.5	10
55	3085	2851	2517	58	62	48	56
65	2416	2120	2414	54	57	41	47
75	1893	1992	3144	57	61	52	59
85	1131	2526	4330	50	53	34	40
				100x100	47	49	30

LIGHT DISTRIBUTION			
Zone	Lumens	%Lamp	%Fixture
0-30	1239	21.4	28.2
0-40	2007	34.6	45.7
0-60	3136	54.1	71.3
0-90	3942	68.0	89.7

Lamps = (2) F32T8 @ 2850 lumens ea. Input Watts = 58.6 LER = FL59.2 Test # 01375
 Ballast = Electronic 120 v Ballast Factor = .88 S/MH: 0° = 1.2; 90° = 1.3
 Comparative yearly lighting energy cost per 1000 lumens = \$4.05
 based on 3000 hrs. and \$.08 per KWH

Ordering Information

S	Y	950	232	ELS	B11	120V
DIFFUSER	SERIES	LAMPS	OPTION	BALLAST	VOLTAGE	
Y - Clear acrylic prismatic	950 - Wrap, flat bottom	217 - (2) 17W 24" T8 220 - (2) 20W 24" T8 240 - (2) 34 or 40W 48" T12 317 - (3) 17W 24" T8* 332 - (3) 32W 48" T8* 440 - (4) 34 or 40W 48" T12 2232 - (4) 32W 48" T8 2240 - (4) 34 or 40W 48" T12	ELS - Emergency Lighting System, see page 62 SR - Silver reflector	B11 - Electronic T8 E1 - Magnetic T12	120 277	

*Consult factory for pendant or cable mounting.

SY130, SP175 WRAPAROUND

SY130 Clear Prismatic Flat Lens Corridor Wraparound

is available in single-lamp 2', 3', 4' and 8' tandem. A two-lamp model is available in 2', 4' and 8' tandem T8 and T12. SY130 is intended for ceiling mount applications.

SP175 Smooth White Acrylic Wraparound is available in 18", 2', 3', 4' and 8' tandem T8 and T12. Unit is dust proof and suitable for wall mount.

Housing: Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. See back cover for post paint color options. Knockouts provided.

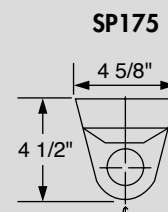
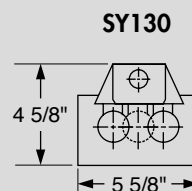
Shielding: Clear prismatic acrylic with D.R.

Electrical: Fully wired for 120V, 60 Hz AC operation with ETL-CBM, thermally protected, automatic resetting, energy saving, Class P, high-power-factor ballast, unless otherwise specified. Sound rated A ballast. U.L. listed, damp location.

Mounting: Individual or continuous row stem or surface mount. See page 63 for stem accessories.

NOTE

- See pages 58 through 63 for additional information.



Photometric Data 1-34W 4' SY130

CANDLEPOWER				LIGHT GUIDE (T12 LAMPS AND MAGNETIC BALLAST)						COEFFICIENT OF UTILIZATION																																																																								
Angle	0	45	90	Footcandles	Area/fixture in sq.ft./lg. room, good conditions - 8' to 10' ceilings					RC	80	70	50	30	70	50	30	50	30																																																															
0	555	555	555		1 Lamp SY130					RW	70	50	30	70	50	30	50	30																																																																
5	560	557	555	35	45.6					RCR																																																																								
15	543	555	566	50	31.9					1	91	86	81	87	82	78	75	72																																																																
25	505	546	573	75	21.2					2	82	73	67	78	70	64	64	59																																																																
35	449	523	563	100	15.9					3	74	64	56	71	61	54	56	50																																																																
45	362	462	512	AVERAGE LUMINANCE CD/SQ. M					4	68	56	48	64	54	46	50	43																																																																	
55	236	376	459						TYPICAL V.C.P.s					5	62	50	41	59	48	40	44	37																																																												
65	105	332	442											Room Size					6	57	44	36	54	42	35	39	32																																																							
75	33	310	429																Mounting Height					7	52	40	32	50	38	30	35	29																																																		
85	14	255	385																					Lengthwise					8	48	36	28	46	34	27	32	25																																													
90	0	192	356																										Crosswise					9	44	32	24	42	31	24	28	22																																								
Lamps = (1) F40T12 @ 3150 lumens ea. Input Watts = 40.8 LER = FL51.6 Test # 30600 Ballast = Magnetic 120 v Ballast Factor = .94 S/MH: 0° = 1.3; 90° = 1.5 Comparative yearly lighting energy cost per 1000 lumens = \$3.47 based on 3000 hrs. and \$.08 per KWH																																		10	41	29	22	39	28	21	26	20																																								
																																		LIGHT DISTRIBUTION					Zone	Lumens	%Lamp	%Fixture																																								
																																							0-30 461 14.6 16.3 0-40 783 24.9 27.7 0-60 1451 46.1 51.4 0-90 2278 72.3 80.7																																											

Ordering Information

S	Y	130	232	ELS	B11	120V
DIFFUSER		SERIES		OPTION	BALLAST	VOLTAGE
P - Milk white acrylic (SP175 only)		130 - Wrap corridor		ELS - Emergency lighting system, see page 62.	B11 - Electronic T8 E1 - Magnetic T12	120
Y - Clear acrylic prismatic		175 - White lens corridor/wall				277
LAMPS						
		117 - (1) 17W 24" T8		232 - (2) 32W 48" T8		
		120 - (1) 20W 24" T12		240 - (2) 34 or 40W 48" T12		
		125 - (1) 25W 36" T8		2132 - (2) 32W 48" T8		
		130 - (1) 30W 36" T12		2140 - (2) 34 or 40W 48" T12		
		132 - (1) 32W 48" T8		2232 - (4) 32W 48" T8		
		140 - (1) 34 or 40W 48" T12		2240 - (4) 34 or 40W 48" T12		

SY920 LOW PROFILE WRAPAROUND

All new SY920 Low Profile Wraparound utilizes a shallow 3 1/4" housing for an unassuming light source in any retail or commercial environment. Self-spacing unit is suitable for low-density cellulose fiberboard ceilings.

Housing: Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Standard white ends are injection molded. Knockouts provided.

Shielding: Clear acrylic prismatic lens with D.R. additive, smooth white also available. Lens hinges from either side.

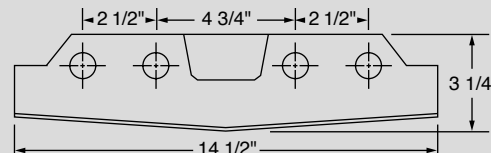
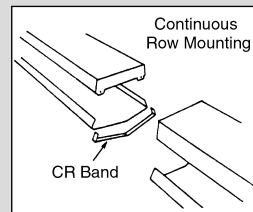
Options: Oak ends available.

Electrical: Fully wired for 120V, 60 Hz AC operation with ETL-CBM, thermally protected, automatic resetting, energy saving, Class P, high-power-factor ballast, unless otherwise specified. Sound rated A ballast. U.L. listed, damp location.

Mounting: Ceiling surface mount individual or continuous row (with CR bands). Tandem two-lamp model available. Use stabilizer bracket kit for four-lamp pendant hung models. See page 63 for pendant mount accessories.



**3 Light T8 –
completely
reengineered
and retooled**



Photometric Data 2-32W 1x4 Model

CANDLEPOWER				LIGHT GUIDE (T8 LAMPS AND ELECTRONIC BALLAST)										COEFFICIENT OF UTILIZATION													
Angle		0	45	90	Footcandles		Area/fixture in sq.ft./lg. room, good conditions - 8' to 10' ceilings						RC	80		70		50									
							2-32W T8		3-32W T8		4-32W T8		RW	70	50	30	70	50	30	50	30						
													RCR														
0		1570	1570	1570	35		81.8		71.0		180.1		1	81	77	74	78	75	72	70	68						
5		1559	1568	1564	50		61.5		119.7		126.1		2	74	68	63	71	66	62	62	59						
15		1505	1518	1519	75		41.0		79.8		84.1		3	68	61	55	66	59	54	56	51						
25		1396	1406	1395	100		30.7		59.9		63.0		4	63	54	48	61	53	47	50	45						
35		1230	1208	1169	AVERAGE LUMINANCE CD/SQ.M							TYPICAL V.C.P.s							5	58	49	42	56	47	45	40	
		Angle	0	45	90	Room Size		Mounting Height								6	53	44	37	52	43	37	41	36			
																7	49	40	33	48	39	33	37	32			
45		959	896	832	45	4866	4109	3670	30x30	8.5	10	8.5	10	8	46	36	30	44	35	29	33	28					
55		446	590	553	55	2790	3183	2822	40x40	58	62	46	53	9	42	32	26	41	31	26	30	25					
65		225	388	449	65	1910	2641	2824	60x30	54	57	41	46	10	39	29	23	38	29	23	27	22					
75		134	230	370	75	1857	2217	3167	60x60	57	61	51	57														
85		51	156	320	85	2099	2734	4531	100x100	50	53	34	39														
90		5	151	286																							
				Lamps = (2) F32 T8 @ 2850 lumens ea. Input Watts = 59.5 LER = FL61.2 Test #01998																							
				Ballast = Electronic 120 v Ballast Factor = 93.6 S/MH: 0° = 1.2; 90° = 1.2																							
				Comparative yearly lighting energy cost per 1000 lumens = \$3.92																							
				based on 3000 hrs. and \$.08 per KWH																							
																LIGHT DISTRIBUTION											
Zone		Lumens		%Lamp	%Fixture																						
0-30		1222		21.1	27.9																						
0-40		1974		34.0	45.0																						
0-60		3149		54.3	71.8																						
0-90		3960		68.3	90.3																						

Ordering Information

S	Y	920	232	ELS	B11	120V
MOUNTING	DIFFUSER	SERIES	LAMPS	OPTION	BALLAST	VOLTAGE
S - Surface ceiling or pendant	Y - Acrylic prismatic W - Smooth white (two-lamp wide)	920 - White ends, standard Optional oak ends, see below.	217 - (2) 17W 24" T8 232 - (2) 32W 48" T8 317 - (3) 17W 24" T8 332 - (3) 32W 48" T8 417 - (4) 17W 24" T8 432 - (4) 32W 48" T8 Tandem: 2232 - (4) 32W 48" T8 2332 - (6) 32W 48" T8 T12 also available	ELS - Emergency lighting system, see page 62 SR - Silver reflector	B11 - Electronic T8 B4 - Magnetic T8 if Simplex clock sync is online E1 - Magnetic T12	120 277
		Bleached Oak				
	Walnut	Oak	Unfinished			
2-lamp	09-05000	09-05001	09-05002	09-05003		
3 or 4-lamp	09-05005	09-05006	09-05007	09-05008		

IF 2, 3 OR 4 LAMP PREMIUM INDUSTRIAL

SIMKAR IF Premium Industrial specification-grade fixtures feature spring-loaded lamp holders in a turret housing to provide positive lamp contact and retention.

Housing: Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. See back cover for post paint color options. 7/8" knockouts for easy installation. Two-lamp model has 6" on-center lamp spacing.

Reflector: Heavy gauge, rigid, die-embossed reflector with transverse beads, in 4' sections; high-gloss white reflector, or optional "A" apertures for 15% uplight. Optional reflective ends. Wire guard available, see page 61.

Electrical: Fully wired for 120V, 60 Hz AC operation with ETL-CBM, thermally protected, automatic resetting, energy saving, Class P, high-power-factor ballast, unless otherwise specified. Sound rated A ballast, except slimline and high-output models. U.L. listed, damp location.

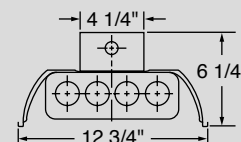
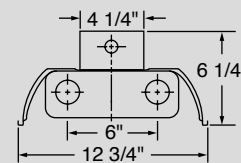
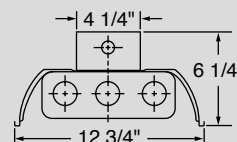
Mounting: Ceiling surface*, SN snapper, CA24 chain kit or SH stem mount individual or continuous row. AC aligner clips and CHJ joiner #64-22000 available for continuous runs. See page 63.

NOTE

- See pages 58 through 63 for additional information.



Optional reflector end, RE



Photometric Data 2-32W 4' Model

CANDLEPOWER				LIGHT GUIDE (T8 LAMPS AND ELECTRONIC BALLAST)								COEFFICIENT OF UTILIZATION												
Angle	0	45	90	Footcandles		Area/fixture in sq.ft./lg. room, good conditions - 8' to 10' ceilings						RC	80	70	50									
						2-32W T8		2-800 ma HO		2-1500 ma VHO		RW	70	50	30	70	50	30	50	30				
0	1577	1577	1577	35		101.5		260		450		1	99	95	91	97	93	89	89	86				
5	1566	1579	1579	50		47.4		182		316														
15	1520	1553	1567	75		71.0		121		210		2	90	83	77	88	81	76	78	73				
25	1421	1487	1524	100		35.5		91		158														
35	1273	1385	1454	AVERAGE LUMINANCE						LIGHT DISTRIBUTION						3	82	73	66	80	72	65	69	63
				CD/SQ.M																				
				Angle	0	45	90	Zone	Lumens	%Lamp	%Fixture	4	75	65	57	73	63	56	61	55				
45	1083	1245	1312	45	4187	4813	5072	0-30	1272	22.3	24.6	5	69	57	48	67	56	48	54	47				
55	852	1048	986	55	4060	4994	4699	0-40	2134	37.4	41.2	6	63	51	42	61	50	42	48	41				
				65	3816	4541	4793	0-60	3951	69.3	76.3													
65	590	702	741	75	3274	4700	4404	0-90	5172	90.7	99.9	7	58	45	37	56	44	37	43	36				
75	310	445	417	85	2227	2635	2321	0-180	5176	90.8	100.0	8	53	40	32	52	40	32	39	32				
85	71	84	74	Lamps = 2 F32 T8 @ 2850 lumens ea. Input Watts = 59.2 LER = F181.8 Test LTL #03152																				
				Ballast = Electronic 120 v Ballast Factor = 93.6 S/MH: 0° = 1.3; 90° = 1.3																				
				Comparative yearly lighting energy cost per 1000 lumens = \$2.93																				
90	9	13	6	based on 3000 hrs. and \$.08 per KWH																				

Ordering Information

IF	232	A	B11	CP	120V
SERIES	2, 3 OR 4 LAMPS	SPECIAL FEATURE		ACCESSORIES	VOLTAGE
I - Industrial	232 - (2) 32W 48" T8	A - Aperture 15% uplight		CP - Cord and plug	120
XI - Industrial w/90% reflective white powder coat reflector	248HO - (2) 48" 800ma			PL - Plug-in Connector	277
	248" VHO* or PG*			PSW - Pull switch	
	296 - (2) 96" Slimline or High Output*			V - Parabolic center "V"	
	248" VHO* or PG*			RE - Reflector end	
	296" VHO* or PG*			SR - Silver insets for use with standard reflector	
	332 - (3) 32W 48" T8				
	348HO - (3) 48" 800ma				
	348" VHO* or PG*				
	396 - (3) 96" Slimline or High Output*				
	432 - (4) 32W 48" T8				
	448HO - (4) 48" 800ma				
	496 - (4) 96" Slimline or High Output*				

*Must be suspended at least 6" from ceiling for cooler operation and longer ballast life

IE SERIES 1 OR 2 LAMP INDUSTRIAL

SIMKAR IE Industrial Fluorescent models come standard with patented labor-saving pre-wired flip-up socket bars.

Housing: Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. See back cover for post paint color options. 7/8" knockouts for easy installation.

Reflector: Strong, rigid, die-embossed solid white reflector in 4' sections, standard. Optional "A" apertures for 12% uplight. Silver laminate on steel and 48" LG wire guard also available. See page 63.

Electrical: Fully wired for 120V, 60 Hz AC operation with ETL-CBM, thermally protected, automatic resetting, energy saving, Class P, high-power-factor ballast, unless otherwise specified. Sound rated A ballast. U.L. listed, damp location.

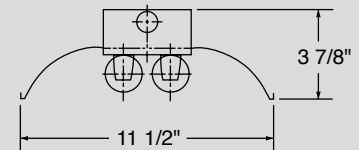
Mounting: Ceiling surface*, SN snapper, CA24 chain kit or SH stem mount individual or continuous row. CHJ joiner #64-22000 and AC aligner clips available for continuous runs. Tandem models available.

NOTE

- See pages 58 through 63 for additional information.



Optional uplight and specular reflectors available.



Photometric Data 2-32W 4' Model

CANDLEPOWER				LIGHT GUIDE (T8 LAMPS AND ELECTRONIC BALLAST)				COEFFICIENT OF UTILIZATION									
Angle	0	45	90	Footcandles	Area/fixture in sq.ft./lg. room, good conditions - 8' to 10' ceilings			RC 80	70	50	30	50	30	50	30		
					2-32W T8	2-96" Slimline		RW 70	50	30	70	50	30	50	30	RCR	
0	1505	1505	1505	35	106	226		1	107	97	93	100	95	91	91	88	
5	1491	1507	1507	50	74	158		2	92	84	77	90	82	76	79	74	
15	1440	1483	1504	75	49	105		3	84	74	66	82	72	65	69	63	
25	1344	1429	1491	100	37	79		4	77	65	56	74	63	55	61	54	
35	1203	1352	1430					5	69	57	48	67	56	47	53	46	
45	1024	1223	1325					6	64	50	41	62	49	42	48	40	
55	809	1053	1179					7	58	45	36	57	44	36	43	35	
65	562	852	1040					8	54	40	32	52	39	31	38	31	
75	298	620	676					9	49	36	28	48	35	27	34	27	
85	63	164	132					10	46	33	25	45	32	24	31	24	
90	6	16	1														

AVERAGE LUMINANCE				TYPICAL V.C.P.s			
CD/SQ.M				Room Size			
Angle	0	45	90	Mounting Height			
				Lengthwise	Crosswise		
45	4251	5077	5500	8.5	10	8.5	10
55	4140	5389	6034	30	36	24	28
65	3903	5918	7224	40x40	27	31	23
75	3380	7032	7667	60x30	31	35	28
85	2122	5523	4446	60x60	26	28	23
				100x100	28	28	27

Lamps = (2) F32T8 @ 2850 lumens ea. Input Watts = 57.8 LER = F181.9 Test #02019							
Ballast = Electronic 120 v Ballast Factor = 93.6 S/MH: 0° = 1.3; 90° = 1.5							
Comparative yearly lighting energy cost per 1000 lumens = \$2.93							
based on 3000 hrs. and \$.08 per KWH							

LIGHT DISTRIBUTION			
Zone	Lumens	%Lamp	%Fixture
0-30	1219	21.0	22.2
0-40	2054	35.4	37.5
0-60	3903	67.3	71.3
0-90	5478	94.4	100.0
0-180	5478	94.4	100.0

Ordering Information

IE	232	A	B11	CP	120V
SERIES	1, 2 OR 3 LAMPS	SPECIAL FEATURE	BALLAST	ACCESSORIES	VOLTAGE
I - Industrial	132 - (1) 32W 48" T8	A - Aperture 12% uplight	B11 - Electronic T8	CP - Cord and plug	120
XI - Industrial w/90% reflective white powder coat reflector	148 - (1) 48" 800ma		HO* - High output	PL - Plug in connector, see page 62	277
	196 - (1) 96"		VHO* - Very high output	PSW - Pull switch	
	232 - (2) 32W 48" T8		Also see page 58	SR - Silver reflector	
	248 - (2) 48" 800ma		Magnetic T12, contact factory		
	296 - (2) 96"				
	Tandem:		*HO, VHO must be suspended at least 6" from ceiling for cooler operation and longer ballast life		
	2132 - (2) 32W 48" T8				
	2196 - (2) 96"				
	2232 - (4) 32W 48" T8				

ID INDUSTRIAL DECORATIVE STRIPLITE

ID Industrial Decorative fixtures are ideal for spaces where a more refined look is desired. T8 lamp technology provides better color rendition and increased energy efficiency. Four diffuser options provide varying aesthetic looks and performance for a multitude of applications including light office and retail spaces. Finished end plates allow for attractive individual mounting.

Housing: Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. See back cover for post paint color options. 7/8" knockouts provided for easy installation. Wired flip-up socket bars standard.

Reflector: Strong, rigid, die-formed white reflector in 4' sections. Optional perforated reflector for ambient uplight available.

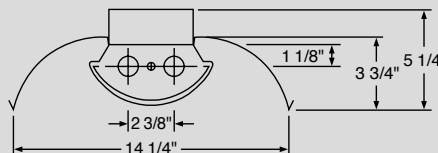
Diffuser: Four diffuser options available. Simple diffuser installation, no tools required. See below.

Electrical: Fully wired for 120V, 60 Hz AC operation with ETL-CBM, thermally protected, automatic resetting, energy saving, Class P, high-power-factor ballast, unless otherwise specified. Sound rated A ballast. U.L. Listed

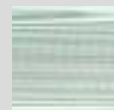
Mounting: Surface mount or pendant mount with aircraft cable or stem/canopies. Individual mounting only. See page 63.

NOTE

- See pages 58 through 63 for additional information.



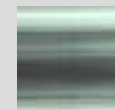
Diffuser options:



Perforated
(shown above)



Prismatic
Acrylic



Clear Fluted



Frosted

Photometric Data 2-32W Industrial Decorative with solid reflector

CANDLEPOWER				LIGHT GUIDE (T8 LAMPS AND ELECTRONIC BALLAST)							COEFFICIENT OF UTILIZATION										
Angle	0	45	90	Footcandles	Area/fixture in sq.ft./lg. room, good conditions - 8' to 10' ceilings			RC	80	70	50	30	70	50	30	50	30				
					2-32W			RW	70												
0	1279	1279	1279	35	85.9			1	69	66	64	67	65	63	62	60					
5	1268	1276	1275	50	60.2			2	63	58	55	62	57	54	55	52					
15	1218	1236	1254	75	40.1			3	58	52	47	57	51	47	49	45					
25	1127	1171	1165	100	30.1			4	53	46	41	52	45	41	44	40					
35	993	1030	1023	AVERAGE LUMINANCE CD/SQ.M				TYPICAL V.C.P.s				5	49	41	35	47	40	35	39	34	
45	821	849	862									6	45	37	31	44	36	31	35	30	
55	620	650	667	Angle	0	45	90	Room Size	Mounting Height		LIGHT DISTRIBUTION										
65	400	425	401	45	6562	3827	4090		Lengthwise	Crosswise											
75	200	203	175	55	5776	3531	3901	30x30	8.5	10	8.5	10	8	38	30	24	37	29	24	28	24
85	37	50	35	65	4637	3021	3183	40x40	49	50	51	52	9	35	26	21	34	26	21	25	21
90	0	17	0	75	3201	2183	2268	60x30	53	54	54	55	10	32	24	19	32	24	19	23	19
				85	1008	1180	1347	60x60	47	47	51	51									
								100x100	48	48	53	52									
				Lamps = (2) F32T8 @ 2850 lumens ea. Input Watts = 57.0 LER = 58.8 Test # 05424																	
				Ballast = Electronic 120V Ballast Factor = 93.6% S/MH: 0° = 1.2; 90° = 1.3																	
				Comparative yearly lighting energy cost per 1000 lumens = \$4.08																	
				based on 3000 hrs. and \$.08 per KWH																	

Lamps = (2) F32T8 @ 2850 lumens ea. Input Watts = 57.0 LER = 58.8 Test # 05424
Ballast = Electronic 120V Ballast Factor = 93.6% S/MH: 0° = 1.2; 90° = 1.3
Comparative yearly lighting energy cost per 1000 lumens = \$4.08
based on 3000 hrs. and \$.08 per KWH

Ordering Information

ID	P	232	B11	PR	120V
SERIES	DIFFUSER	LAMPS	BALLAST	SPECIAL FEATURE	VOLTAGE
ID - Surface industrial decorative PID - Pendant industrial decorative	P - Perforated CF - Clear fine fluted FR - Frosted PA - Prismatic acrylic	232 - (2) 32W 48" T8	B11 - Electronic T8	PR - Perforated reflector	120 277

RLC FOR MERCHANDISING AREA

RLC fixtures are ideal for merchandising and retail areas. The RLC recessed fixture provides 28% less glare than traditional strips, meaning less attention on the fixture and more on what is illuminated. Available in 4' and 8' lengths.

Housing: Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Reflector sides have full return for extra strength and a convenient removable wireway access panel. Ample knockouts provided for wiring. Shipped fully assembled.

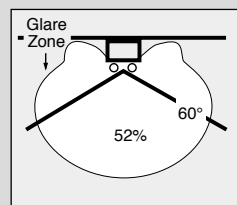
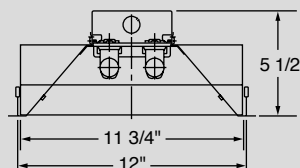
Options: Modular wiring, silver interior, and emergency lighting battery packs are available options. Specify HO B5 for electronic high output ballast that does not increase required plenum depth of fixture.

Electrical: Fully wired for 120V, 60 Hz AC operation with ETL-CBM, thermally protected, automatic resetting, energy saving, Class P, high-power-factor ballast, unless otherwise specified. Consult factory for sound rating. U.L. listed, damp location.

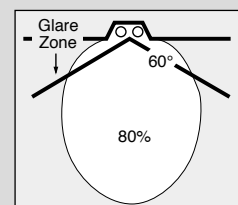
Mounting: Complete fixture lays into standard inverted T-bar grid systems, individual or continuous rows. Optional plug-in wiring system described in detail on page 62.

NOTE

- See pages 58 through 63 for additional information.



Standard
Strip
System



RLC
System

Photometric Data 2-F96T12 4' Model

CANDLEPOWER				LIGHT GUIDE (F96 T12 LAMPS AND MAGNETIC BALLAST)							COEFFICIENT OF UTILIZATION									
Angle	0	45	90	Footcandles		Area/fixture in sq.ft./lg. room, good conditions - 8' to 10' ceilings. To calculate for HO lamps, multiply by 1.4					RC	80	70	50	30	70	50	30	50	30
						2-48" (32w)	1-96"-6300	2-96"-6300ea.			RW	70	50	30	70	50	30	50	30	
0	3300	3300	3300	35	99	116	214			RCR	1	88	85	82	86	83	80	80	78	
5	3266	3308	3320	50	69	81	150			2	81	75	70	79	74	69	71	67		
15	3167	3264	3315	75	46	54	100			3	74	67	60	72	65	60	63	58		
				100	35	41	75			4	68	59	52	66	58	52	56	51		
25	2959	3163	3262	AVERAGE LUMINANCE CD/SQ.M				TYPICAL V.C.P.s				5	62	52	45	60	51	45	49	
35	2654	2948	3022	Angle	0	45	90	Room Size	Mounting Height		6	57	46	39	55	46	39	44	38	
45	2259	2573	2700	45	4621	5263	5523	30x30	Lengthwise	Crosswise	7	52	42	35	51	41	34	40	34	
55	1783	2120	2031	55	4496	5346	5122	40x40	8.5	10	8.5	10								
65	1226	1361	1104	65	4196	4658	3778	60x30	43	43	53	51								
				75	3442	2677	1313	60x60	46	43	57	54								
75	616	479	235	85	1411	730	631	100x100	51	50	58	54								
									50	46	60	56								
85	85	44	38									9	44	33	26	43	33	26	32	26
												10	41	30	24	40	30	23	29	23
90	0	0	0									LIGHT DISTRIBUTION								
												Zone	Lumens	%Lamp	%Fixture					
												0-30	2684	21.3	26.6					
												0-40	4496	35.7	44.5					
												0-60	8261	65.6	81.7					
												0-90	10107	80.2	100.0					
				Lamps = (2) F96T12-SP35 @ 6300 lumens ea. Input Watts = 96.3 LER = 78.7 Test LTL#03529 Ballast = Mag. Slimline Ballast Factor = .88 S/MH: 0° = 1.3; 90° = 1.4 Comparative yearly lighting energy cost per 1000 lumens = \$3.05 based on 3000 hrs. and \$.08 per KWH																

Ordering Information

RLC	2	96	ELS	HOB5	SR	PL1BK	120V
SERIES	# LAMPS	LENGTH	BALLAST	SPECIAL FEATURE	PLUG-IN SYSTEM	VOLTAGE	
	1 - Single	32 - 32W 48" T8	B4 - Magnetic T8	SR - Silver laminate on steel interior (consult factory)	Circuit wired to black:	120	
	2 - Double	40 - 34 or 40W 48" T12	B5 - Electronic T12		1BK - 1 circuit, 2 wires	277	
	21 - Tandem Two Lamps	48 - 48" 800 mA	B11 - Electronic T8		2BK - 2 circuit, 3 wires		
	22 - Tandem Four Lamps	96 - 96" Slimline Fits inverted T-Bar	HO - High output**		3BK - 3 circuit, 4 wires		
			HO-B5 - Elec. 800 mA high output		Circuit wired to red:		
			HO-E1 - Energy saving high output**		2RD - 2 circuit, 3 wires		
			LT - Cold weather 0°		3RD - 3 circuit, 4 wires		
			**Housing 1" deeper		Circuit wired to blue:		
					3BL - 3 circuit, 4 wires		

CH ORIGINAL PATENTED STRIPLITE

SIMKAR's Striplite Series is ideal for general purpose lighting in retail stores and commercial environments. Available in 2', 3', and 4' individual lengths as well as continuous row mounting.

Housing: Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat with removable wireway access panel. See back cover for post paint color options. Ample knockouts provided on side, back and ends. Shipped fully wired and assembled, including socket saddle. Simply flip up socket bar and attach wireway cover with turn fastener provided. Machine installed shunts eliminate loose socket bar connections on electronic strips. OCH and OAH not available in 4-light model.

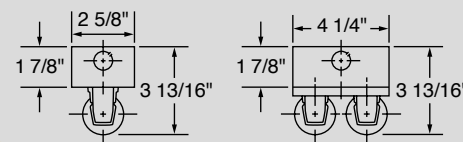
Options: Modular wiring, white or silver asymmetric or symmetric reflectors, and emergency lighting battery packs are available options. For T5, see page 39.

Electrical: Fully wired for 120V, 60 Hz AC operation with ETL-CBM, thermally protected, automatic resetting, energy saving, Class P, high-power-factor ballast, unless otherwise specified. Sound rated A ballast, except slimline and high-output models. U.L. listed, damp location.

Mounting: Combination end plate/joiner connect units for continuous row or wire through, see CHJ on page 63. Optional plug-in wiring system described in detail on page 62.

NOTE

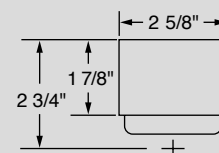
- See pages 58 through 63 for additional information.



CHTT



Flip-up sockets
Patent #4,422,132



Photometric Data 2-32W 4' Model

CANDLEPOWER				LIGHT GUIDE (T8 LAMPS AND ELECTRONIC BALLAST)								COEFFICIENT OF UTILIZATION												
Angle	0	45	90	Footcandles		Area/fixture in sq.ft./lg. room, good conditions - 8' to 10' ceilings						RC	80	70	50	30	70	50	30	50	30			
0	1029	1029	1029			1-32		2-32		4-32		RW	70	50	30	70	50	30	50	30				
5	1022	1031	1030	35	46			90		169		RCR												
15	987	1021	1042	50	32			63		118		1	97	92	87	93	88	84	81	77				
25	916	995	1059	75	22			42		79		2	87	79	72	83	75	69	69	64				
35	810	960	1058	100	16			31.5		59		3	79	69	60	75	66	58	60	54				
45	677	898	1024	AVERAGE LUMINANCE CD/SQ.M								LIGHT DISTRIBUTION				4	72	60	51	68	58	50	53	46
55	518	803	966	Angle	0	45	90	Zone	Lumens	%Lamp	%Fixture	5	65	53	44	62	50	42	46	39				
65	346	697	925	45	7509	8103	8310	0-30	844	14.8	15.6	6	60	47	38	57	45	37	41	34				
75	171	591	732	55	7083	8003	8420	0-40	1438	25.2	26.5	7	55	42	33	52	40	32	37	30				
85	33	335	461	65	6421	8030	9004	0-60	2811	49.3	51.8	8	51	37	29	48	36	28	33	26				
90	3	241	371	75	5182	8371	8357	0-90	4366	76.6	80.5	9	47	33	25	44	32	24	30	23				
95	0	312	441	85	2969	6412	6609	0-180	5427	95.2	100.0	10	43	30	23	41	29	22	27	20				
105	0	307	519	Lamps = (2) F32 T8 @ 2850 lumens ea. Input Watts = 59.5 LER = FS85.4 Test #03153																				
115	0	243	398	Ballast = Electronic Ballast Factor = 93.6 S/MH: 0° = 1.3; 90° = 1.6																				
125	0	169	320	Comparative yearly lighting energy cost per 1000 lumens = \$2.81																				
135	0	93	211	based on 3000 hrs. and \$.08 per KWH																				
145	0	26	105																					
155	0	0	16																					
165	0	0	0																					
175	0	0	0																					
180	0	0	0																					

Ordering Information

CH	2	32		B11		PL1BK	120V
SERIES	# LAMPS	LAMPS	OPTION	BALLAST	ACCESSORIES	PLUG-IN SYSTEM	VOLTAGE
CH - Channel	1 - Single	14 - 14W 15" T12	ELS -	B11 - Electronic T8	Reflectors, see page 59	Circuit wired to black:	120
CHD - Dimming*	2 - Double	15 - 15W 18" T8/T12	Emergency	B4 - Magnetic T8	Wire guards, see page 63	1BK - 1 circuit, 2 wires	277
CHTT - Twin tube	4 - Four	17 - 17W 24" T8	Lighting	B5 - Electronic T12		2BK - 2 circuit, 3 wires	
CHX - Slimline/HO	21 - Tandem,	20 - 20W 24" T12	System,	B10 - Magnetic TT		3BK - 3 circuit, 4 wires	
OAH - Aluminum*	two lamps	25 - 25W 36" T8	see page	B14 - Electronic TT		Circuit wired to red:	
OCH - Low temp/	22 - Tandem,	30 - 30W 36" T12	62	E1 - Magnetic T12		2RD - 2 circuit, 3 wires	
Powder coat*	four lamps	32 - 32W 48" T8		LB - Less ballast		3RD - 3 circuit, 4 wires	
		40 - 34/40W 48" T12		LT - Cold weather 0°		Circuit wired to blue:	
		40TT - 40W 22" TT				3BL - 3 circuit, 4 wires	

*See page 41

CHA, CHS AND STC STRIPLITES

CHA Side Lamp and STC Staggered Striplites are ideal for custom lighting in retail stores and commercial environments. Striplites are available in 2', 3', and 4' individual lengths as well as continuous row mounting.

Housing: Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat with removable wireway access panel. See back cover for post paint color options. Fixture is shipped fully wired. Secure wireway cover with screw. Ample knockouts provided.

Options: Popular options include modular wiring and master unit ballast driving multiple fixtures, e.g., CHS232 B11 4L will drive the second fixture CHS232 LB (less ballast). See page 62.

Electrical: Fully wired for 120V, 60 Hz AC operation with ETL-CBM, thermally protected, automatic resetting, energy saving, Class P, high-power-factor ballast, unless otherwise specified. Sound rated A ballast. U.L. listed, damp location.

Mounting: Individual or continuous row. STC features staggered ends to eliminate shadows at overlap. Optional plug-in wiring system described in detail on page 62.

NOTE

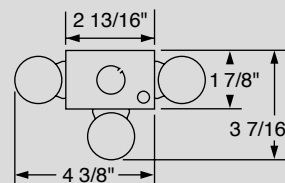
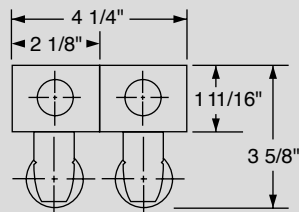
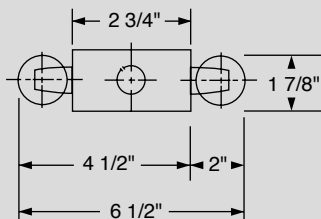
- See pages 58 through 63 for additional information.

CHS One Lamp
15" to 96"

CHS Two Lamp
15" to 48"

CHA - Two or three
lamps mounted at 90°
24", 36", 48"

STC Staggered
Series



STC STAGGERED SERIES	
Single Lamp Length	Double Lamp Length
24"	27"
36"	39"
48"	51"
93" (2 lamp)	99" (4 lamp)

Ordering Information

CHS	2	32	ELS	B11	PL1BK	120V
SERIES	# LAMPS	LAMPS	OPTION	BALLAST	PLUG-IN SYSTEM	VOLTAGE
CHA - Lamps mount at 90°	1 - Single	14 - 14W 15" T12	ELS - Emergency Lighting	B4 - Magnetic T8	Circuit wired to black:	120
CHS - Side-mount lamp(s)	2 - Double	15 - 15W 18" T12	System, see page 62	B5 - Electronic T12	1BK - 1 circuit, 2 wires	277
STC - Staggered strip Series	3 - (CHA)	17 - 17W 24" T8		B10 - Magnetic TT	2BK - 2 circuit, 3 wires	
	STC only:	20 - 20W 24" T12		B11 - Electronic T8	3BK - 3 circuit, 4 wires	
	21 - Tandem	25 - 25W 36" T8		B14 - Electronic TT	Circuit wired to red:	
	two Lamps	30 - 30W 36" T12		E1 - Magnetic T12	2RD - 2 circuit, 3 wires	
	22 - Tandem	32 - 32W 48" T8		LT - Cold weather 0°	3RD - 3 circuit, 4 wires	
	four Lamps	40 - 34 or 40W 48"* T12		LB - Less ballast	Circuit wired to blue:	
					3BL - 3 circuit, 4 wires	

*(1) 96 on CHS196 4" wide x 3" deep

CHX SLIMLINE AND HIGH OUTPUT STRIPLITES

Slimline and High Output Striplites are ideal for maximum illumination in retail stores and commercial environments. Striplites are available in 4', 6', and 8' individual lengths as well as continuous row mounting.

Housing: High-gloss, baked white enamel finish on steel housing with removable wireway access panel. See back cover for post paint color options. Fixture is shipped fully wired and assembled. CHX models have patented (#4,422,132) flip-up socket bar and turn fastener for attaching wireway cover. OAH aluminum housing has longitudinal ribs for rigidity. Ample knockouts provided.

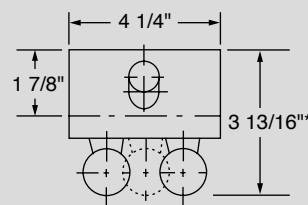
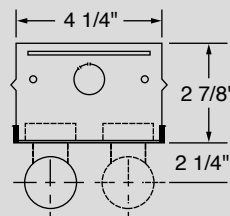
Options: Options include modular wiring, electronic ballasts for better sound rating, and OLS polycarbonate tube guards for cold or food area operation.

Electrical: Fully wired for 120V, 60 Hz AC operation with ETL-CBM, thermally protected, automatic resetting, energy saving, Class P, high-power-factor ballast, unless otherwise specified. Sound rated A ballast, except slimline and high-output models. CHX and OAH models are U.L. listed, damp location.

Mounting: Combination end plate/joiner connects units for continuous row or wire through. Heavy duty joiner plate #30-21602 available for steel CHX models. Optional plug-in wiring system described in detail on page 62. Surface or pendant mount, high output model must be suspended at least 6" from ceiling for cooler operation.



OAH Aluminum Series



CHX Steel Series

* HO, VHO, SHO and PG are 4 5/8" deep

Photometric Data 2-96" Model

CANDLEPOWER				LIGHT GUIDE (T12 LAMPS AND MAGNETIC BALLAST)								COEFFICIENT OF UTILIZATION													
Angle	0	45	90	Footcandles		Sq. ft. per fixture in a large room with 8' to 10' ceilings.						RC	80	70	50										
						CHX296	CHX296HO					RW	70	50	30	70	50	30	50	30					
0	2242	2242	2242																						
5	2212	2242	2254																						
15	2132	2224	2294																						
25	1972	2184	2334	35		201	297					1	93	88	84	89	85	80	77	74					
35	1744	2092	2328	50		140	207					2	84	76	69	80	72	66	66	61					
45	1446	1954	2252	75		94	139					3	76	66	58	72	63	56	58	52					
55	1100	1748	2094	100		70	104					4	69	58	50	66	56	48	51	45					
65	714	1484	1812	AVERAGE LUMINANCE						LIGHT DISTRIBUTION						5	63	51	42	60	49	41	45	38	
75	334	1134	1476	CD/SQ.M						Zone	Lumens	%Lamp	%Fixture	6	58	45	37	55	43	35	40	33			
85	56	698	1008	Angle	0	45	90	0-30	1846	14.7	16.1	7	53	40	32	50	39	31	36	29					
90	6	572	886	45	7740	8619	9021	0-40	3144	24.9	27.4	8	49	36	28	46	35	27	32	25					
95	2	668	1020	55	7212	8407	9294	0-60	6127	48.6	53.5	9	45	32	24	43	31	24	29	22					
105	0	564	922	65	6284	8511	9334	0-90	9309	73.9	81.3	10	42	29	22	40	28	21	26	20					
115	0	452	772	75	4688	8491	9397	0-180	11453	90.9	100.0														
125	0	338	602	85	2096	7672	8748																		
135	0	226	430	Lamps = (2) F96 T12 @ 6300 lumens ea. Input Watts = 157.3 Test #00722																					
145	0	124	266	Ballast = Magnetic 120 V S/MH = 1.2																					
155	0	34	116																						
165	0	0	6																						
175	0	0	0																						
180	0	0	0																						

INDUSTRIAL & STRIPLITES

Ordering Information

CHX	2	96	HO		PL1BK	120V
SERIES	# LAMPS	LAMPS	BALLAST	SPECIAL HOUSING	PLUG-IN SYSTEM	VOLTAGE
CHX - Slimline/HO	1 - Single	48 - 48"	B5 - Electronic T12	20G - 20 gauge steel	Circuit wired to black:	120
OAH - Aluminum	2 - Double	72 - 72"	B11 - Electronic T8	housing, certain models	1BK - 1 circuit, 2 wires	277
Slimline/HO etc.	3 - Triple	96 - 96"	E1 - Magnetic T12	Accessories, reflectors and	2BK - 2 circuit, 3 wires	
OCH - Low	4 - Four		HO - 800mA	wire guards, see pages	3BK - 3 circuit, 4 wires	
Temp/Powder	21 - Tandem		LT - Cold Weather 0°	58 - 63	Circuit wired to red:	
Coat	Two Lamps		(High Output - 20°)	Consult factory for three-	2RD - 2 circuit, 3 wires	
			PG - For use w/ T17	lamp models 396	3RD - 3 circuit, 4 wires	
			power groove	DEEP - 2 3/4" deep	Circuit wired to blue:	
			VHO - 1500mA	housing, overall 4 5/8"	3BL - 3 circuit, 4 wires	

CH5 LENSED T5 STRIPLITE

CH5 Lensed T5 Striplites provide high output, excellent color rendering, and warm temperatures for effective lighting in a small scale housing. SIMKAR's CH5 is perfect for a variety of applications from residential cove lighting to wall mounting in commercial corridors or offices to industrial garage applications to direct light down and out. Decorative end plates allow for surface mounting on ceilings as well as visible wall applications. Four diffuser options and two reflector options are available and provide varying aesthetics.

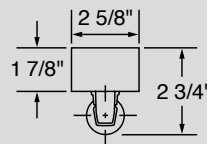
Housing: Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. See back cover for post paint color options. Steel housing is equipped with removable wireway access panel. Simply flip up socket bar and attach wireway cover with turn fastener.

Reflector: White steel or perforated steel available. Fixture also available without reflector.

Diffuser: Four diffuser options available. Simple diffuser installation, no tools required. See below.

Electrical: Fully wired for 120V, 60 Hz AC operation with ETL-CBM, thermally protected, automatic resetting, energy saving, Class P, high-power-factor ballast, unless otherwise specified. Sound rated A ballast, except high-output models. U.L. Listed

Mounting: Surface or Pendant mount with aircraft cable or stem/canopies. Continuous row mounting for non-lensed fixtures only. See page 63.

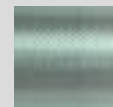


For both
1 and 2 lamp
models.

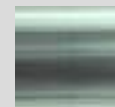
Diffuser options:



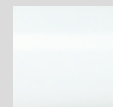
Perforated
(shown above)



Prismatic
Acrylic



Clear Fluted



Frosted

NOTE

- See pages 58 through 63 for additional information.

Ordering Information

CH5

SERIES

CH5 - T5 Channel
CHR5 - T5 Channel, white steel reflector
CHRP5 - T5 Channel, perforated reflector

P

DIFFUSER

CF - Clear fine fluted
FR - Frosted
P - Perforated
PR - Prismatic acrylic

1

LAMPS

1
2

28

LAMPS

14 - 14W 22" T5
21 - 21W 34" T5
24 - 24W 22" T5
28 - 28W 46" T5
35 - 35W 57" T5
39 - 39W 34" T5
54 - 54W 46" T5

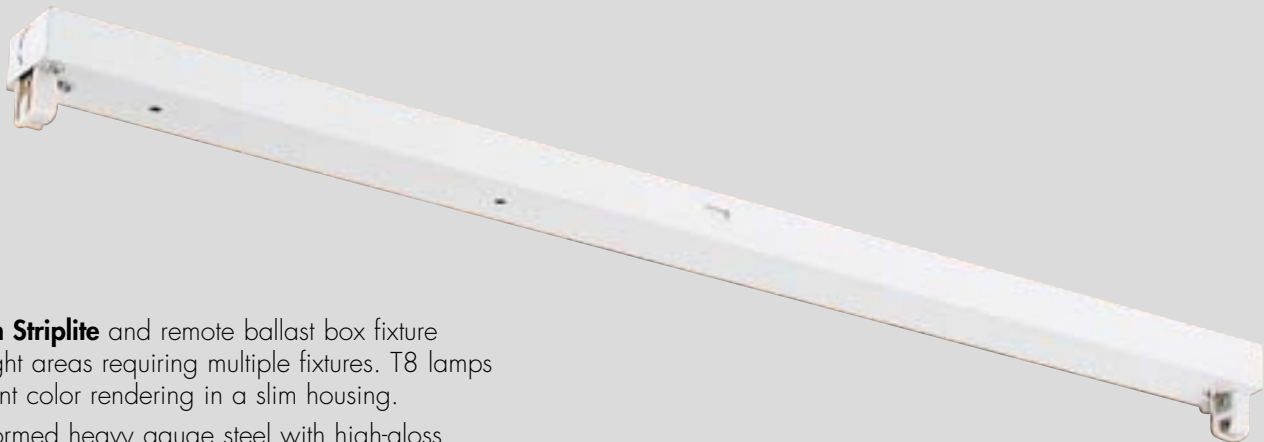
120V

VOLTAGE

120
277



WS SERIES SLIM STRIPLITE



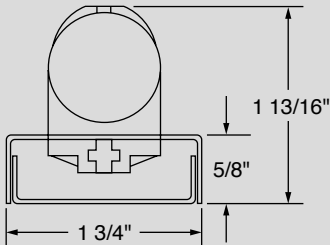
WS Series Slim Striplite and remote ballast box fixture are ideal for tight areas requiring multiple fixtures. T8 lamps provide excellent color rendering in a slim housing.

Housing: Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. See back cover for post paint color options. Removable front panel allows access for wiring with snap-in conduit fittings on site. Quick assembly to back panel with screws provided. Embossed mounting holes through fixture speed up mounting to surface and allow remote assembly, if required. Striplite is shipped separate from remote ballast box and flex assemblies.

Option: Popular options include emergency lighting system and wire-thru unit (WSWT) with holes at both ends for snap-in conduit connector (add 2" to length). A twin-tube strip may also be specified.

Electrical: Ballast and flex prepared as specified. Fully wired for 120V, 60 Hz AC operation with ETL-CBM, thermally protected, automatic resetting, energy saving, Class P, high-power-factor ballast, unless otherwise specified. Sound rated A ballast. U.L. listed.

Mounting and Ballast Box: One 18" ballast box comfortably handles 3 striplites, utilizing the four standard knockouts. Ballast box access cover is held in place with tab and quarter-turn fastener.



18" BALLAST BOX ORDERING INFORMATION	
Box	Lamps
WSRB125B11	1L - 25W T8
WSRB132B11	1L - 32W T8
WSRB132B11277V	1L - 32W T8
WSRB232B11	2L - 32W T8
WSRB332B11	3L - 32W T8
WSRB432B11	4L - 32W T8

Ordering Information					
WS	132	ELS	B11	120V	WSFL
SERIES	LAMPS	OPTION	BALLAST	VOLTAGE	FLEX
WS - Single lamp Slim Channel, one conduit hole	117 - 17W 26" T8 125 - 25W 38" T8 132 - 32W 50" T8	Emergency Lighting System, see page 62	B4_L - Magnetic T8* B10 - Magnetic TT B11_L - Electronic T8* B14 - Electronic TT LB - Less ballast LT - Cold start, 0°	120 277	Specify length and connector type**
WSWT - Channel for wire thru, conduit hole on each end - add 2" length	140 - 40W 62" T8 140TT - 40W 26" TT				
* L - Specify how many lamps are to be driven by one ballast. Maximum 4 for electronic with 15' flex.					
** FLEX - Specify length (minimum of 2', maximum of 15') and number of wires plus ground and connectors (straight or 90°; field installed), e.g., 6' flex of 3-wire (red, green, blue) for use with B11 electronic ballast. Flex would code as WSFL6-3W (R, G, Blue) 90 & 90. The 90 & 90 indicates 90° connector on both ends of flex. The end of run might require a straight connector, so would code WSFL6-3W (R, G, Blue) STR & 90. Magnetic ballast may require a 5-wire flex, e.g., WSFL6-5W (R, R, G, Blue, Blue) STR & 90.					

W MIDGET SERIES

W Midget Series fixtures, available in five lengths, are perfect for tight spaces and display cases.

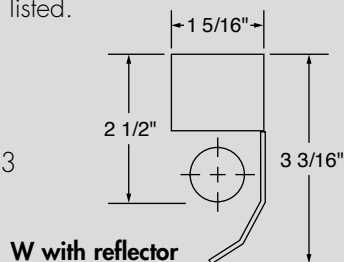
Housing: Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. See back cover for post paint color options. Deburred flattened knockouts provided.

Electrical: Fully wired for 120V, 60 Hz AC operation with ETL-CBM, thermally protected, automatic resetting, energy saving, Class P, high-power-factor ballast, unless otherwise specified. Uses a preheat ballast with replaceable starter. Sound rated A ballast. U.L. listed.

Mounting: Individual or continuous rows.

NOTE

- See pages 58 through 63 for additional information.



Ordering Information

W

4

SERIES

LAMPS

W

4 - (1) 4W T5
6 - (1) 6W T5
8 - (1) 8W 12" T5

15 - (1) 15W 18" T5
215 - (2) 15W 18" T5

MM MIDGET SERIES

MM Series are multipurpose striplites for longer 14W or 28W T5 lamps.

Housing: Heavy gauge steel. White as standard, see back cover for post paint color options. Ample knockouts provided.

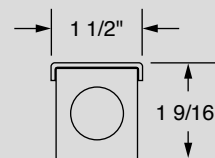
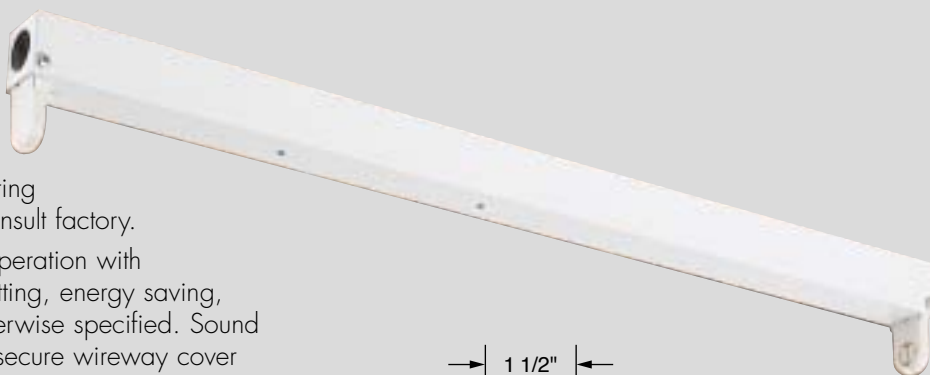
Options: Popular options include modular wiring and a master unit driving multiple fixtures. Consult factory.

Electrical: Fully wired for 120V, 60 Hz AC operation with ETL-CBM, thermally protected, automatic resetting, energy saving, Class P, high-power-factor ballast, unless otherwise specified. Sound rated A ballast. U.L. listed. Equipped with a secure wireway cover with screw and twist locking sockets. Cord and plug are optional.

Mounting: Individual or continuous rows.

NOTE

- See pages 58 through 63 for additional information.



Ordering Information

MM

1

14

B9

PL1BLK

120V

SERIES

LAMPS

LAMPS

BALLAST

OPTIONS

VOLTAGE

MM - Striplite for T5 silhouette lamp

1

14 - 14W 15" T5
28 - 28W 46" T5

B9 - Special electronic type
LB - Less ballast

FL - Flex, see page 62
Plug-in system:

BK - Ballast to Black
RD - Ballast to Red
BL - Ballast to Blue
PL1BK - 1 circuit
PL2BK - 2 circuit
PL2RD - 2 circuit
PL3BK - 3 circuit
PL3RD - 3 circuit
PL3BL - 3 circuit

120
277

OS DIRECTIONAL SIGN LIGHT

OD Directional Sign Light offers 360° swivel for precision aiming of light. Lip on flat lens allows unit to be aimed upward while still maintaining the U.L. listing for wet locations.

Housing: Totally enclosed, fully assembled, corrosion resistant aluminum housings. White interior, splice box. Die-cast aluminum splice box tapped 3/4" -14 N.P. All hardware is corrosion resistant stainless steel. Gasketed sockets; use with remote ballast. KOs provided top and ends.

Shielding: Extruded clear wraparound acrylic snap-in diffuser that will not discolor.

Electrical: Fully wired for 120V, 60 Hz AC operation. Suffix PG for Power Groove 1500 mA, PG17. All units above are supplied with remote, low temperature, weatherproof 120V ballast, unless otherwise specified. 277V ballasts are available on tandems and PG models. For 277V non-weatherproof ballast apply suffix LT 277. HO ballasts sound rated B or C. VHO and PG, sound rated D. U.L. listed, damp location.

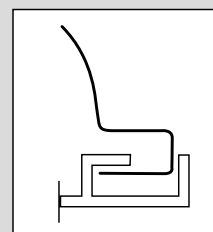
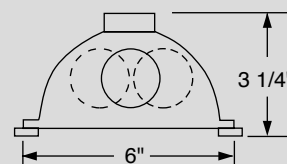
Mounting: Run conduit (not supplied) from remote ballast to individual fixtures, continuous rows or end-of-row fixtures. Order extra splice box and end caps whenever a tandem unit is to be mounted separately. Add 2 1/2" to length.

NOTE

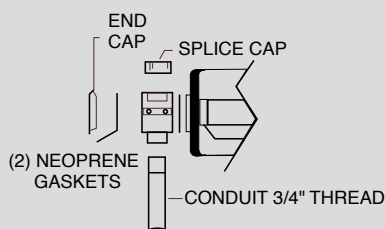
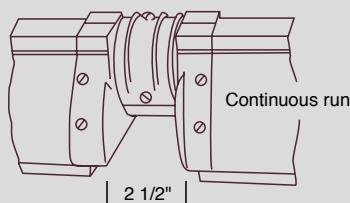
- For overall lengths on continuous rows, add 2 1/2" to total lengths of all mounting centers, e.g., four 8' units in one row would be $98\frac{1}{2}" + 98\frac{1}{2}" + 98\frac{1}{2}" + 98\frac{1}{2}" + 2\frac{1}{2}" = 396\frac{1}{2}"$



One- and two-lamp models available. Consult factory for two-lamp models.



Outstanding Feature! Lip on flat lens allows unit to be aimed upward.



Ordering Information

OS

SERIES

OS

1

LAMPS

1 - Single
21 - Tandem
Two Lamps

48

LAMPS

48 - 48", 50.5"
72 - 72", 74.5"
96 - 96", 98.5"

HO

BALLAST

HO - 800 mA
PG - Power Groove 1500 mA, PG17
VHO - 1500 mA T12
LT 277 - Non-weatherproof, 277V only

120V

VOLTAGE

120
277*

* Available for tandems and PG models

OH HEALTH CARE TASK LIGHTING

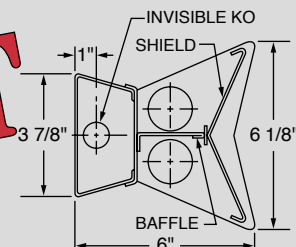
SIMKAR OH White or OH Walnut Series healthcare task lighting, available in 3' or 4' lengths, is designed to provide discrete lighting in a multi-bed environment.

Housing: Sturdy steel body with invisible 7/8" knockout on each end. Standard unit has center baffle, convenience outlet, push switch six-watt night light, and for "T" rated pull switch for up and down light selection.

Electrical: Fully wired for 120V, 60 Hz AC operation with ETL-CBM, thermally protected, automatic resetting, energy saving, Class P, high-power-factor ballast, unless otherwise specified. Sound rated A ballast. U.L. listed.

Mounting: Surface wall mount, designed for horizontal mounting.

OH Walnut Series



DISCONTINUED PRODUCT

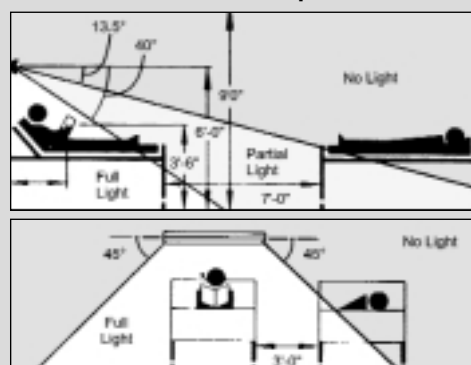
NOTE

- See pages 58 through 63 for additional information.

Ordering Information

OHW	232	B11	120V
SERIES	LAMPS	BALLAST	VOLTAGE
OHW - White fascia	225 - (2) 25W 36" T8	B4 - Magnetic T8	120
OHG - Walnut fascia	230 - (2) 30W 36" T12	B11 - Electronic T8	277
Companion (no baffle):	232 - (2) 32W 48" T8	RS - T12	
UVWT - White fascia	240 - (2) 40W 48" T12	E1 - Magnetic T12	
UVW - Walnut fascia			

OH/OM Series illumination patterns.



WY66 AND WE66 WALL TASK LIGHTING

WY66 and WE66 Series wall-mounted fixtures provide versatile direct/indirect illumination for a range of task lighting applications.

Housing: Sturdy steel body. See back cover for post paint color options. Wood trim (min. 50), optional emergency pack.

Shielding: Acrylic prismatic diffuser (WY), shielding (WE), or open bottom, open top.

Electrical: Fully wired for 120V, 60 Hz AC operation with ETL-CBM, thermally protected, automatic resetting, energy saving, Class P, high-power-factor ballast, unless otherwise specified. Sound rated A ballast. U.L. listed.

Mounting: Surface wall mount designed for horizontal mounting. Order WMB 4 1/4" square wall mounting bracket for 1" wall box (two per fixture required).

WY66-D1-217 shown with standard prismatic diffuser.

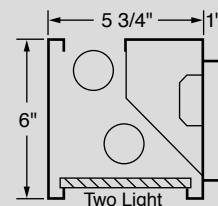


Ordering Information

WY66	DI	232	B11	120V
SERIES	FEATURE	LAMPS	BALLAST	VOLTAGE
WY66 - Prismatic bottom	DI - Direct/indirect down/uplight	217 - (2) 17W 24" T8	B4 - Magnetic T8	120
WE66 - Aluminum louver bottom	LN - Less lens for open bottom	232 - (2) 32W 48" T8	B11 - Electronic T8	277



Fixture provides both uplight and downward illumination.



Wall model shown with WMB wall bracket.

OM HEALTH CARE SERIES

OM Series White, Walnut or Oak Finish fixtures

are designed with switchable general or task lighting levels, built-in night light and convenience outlet.

Housing: Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. 3' or 4' enclosed units. Available in white, walnut, oak, or color. See back cover for post paint color options. Standard model has front baffle, center baffle, convenience outlet, six-watt night light with push switch, and four-position Trated pull switch for up or down light selection. Companion WBT Series in lengths from 24" to 96" also available.

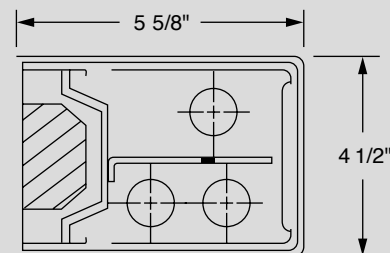
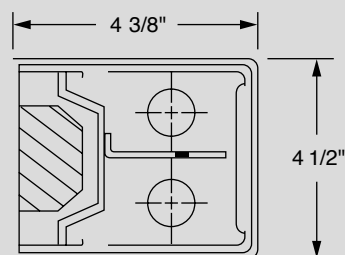
Shielding: Acrylic diffuser and linear prism provides glare-free illumination and efficient light distribution

Electrical: Fully wired for 120V, 60 Hz AC operation with ETL-CBM, thermally protected, automatic resetting, energy efficient, Class P, high power factor, sound rated A ballast, unless otherwise specified. U.L. listed.

Mounting: Surface wall mount horizontal.



Two lamp OM Series in white finish.



OH and OM Series fixtures are designed for patient-care facilities with features care-givers require, such as switchable general or task lighting levels, or use of built-in night light and convenient outlet. Shown here is a three lamp walnut finish.

INDUSTRIAL & STRIPLITES

Ordering Information

OMW

FINISH

OMG - Walnut tone on steel
OMO - Oak tone on steel
OMW - White

2

OF LAMPS

2 - Two lamp
3 - Three lamp, two bottom, one top

32

LAMPS

17 - 17W 24" T8
20 - 20W 24" T12
25 - 25W 36" T8
30 - 30W 36" T12
32 - 32W 48" T8
40 - 34 or 40W 48" T12

B11

BALLAST

B4 - Magnetic T8
B11 - Electronic T8
E1 - Magnetic T12

LSF

OPTION

LA - Less switch, nightlight and outlet
LCO - Less outlet
LIB - Less internal baffle
LSF - Less fascia for milk white translucent front

120V

VOLTAGE

120
277, available only on LA models

IW, XIW AND UW TASK LIGHTING

IW, XIW, and UW Task Lighting provides uniform, efficient illumination. UW series is shipped with outlet and turn switch, cord and plug available. Slim IW and XIW fit discreetly under cabinets and shelves for all task lighting applications.

Housing: Heavy gauge steel with flush ends. KOs provided top, side and back. Ballast compartment is designed with concealed screws, eliminating exposed hardware (IW and XIW). Baked white enamel over rust inhibiting phosphate coat, white interior. XIW is post painted with a white powder coat finish. See back cover for post paint color options.

Shielding: Snap-in D.R. acrylic diffuser for longer life and less breakage. Ribbed linear prisms for even light distribution. Translucent milk white is standard, steel front available.

Options: White grounded 6' cordset, grounded convenience outlet, cool white lamp included, and rocker switch are available options.

Electrical: Factory wired for 110 - 125V operation. T5, T8, and T12 units available. T5 with electronic instant start, thermally protected, Class P ballast of hybrid design. T8, rapid and trigger start fixtures supplied with Class P ballasts. Consult factory for sound rating. U.L. listed.

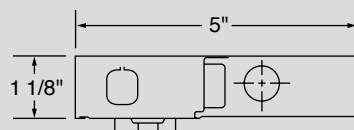
Mounting: Individual or continuous rows.

NOTE

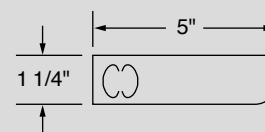
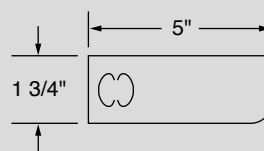
- See pages 58 through 63 for additional information.



IW and XIW



UW



Ordering Information

UW	8		TS	120V
SERIES	LAMPS	OPTION	BALLAST	VOLTAGE
UW - White US - Chrome UG - Walnut UO - Oak	8 - 8W 12" T5 15 - 15W 18" T12 20 - 20W 24" T12 30 - 30W 36" T12 40 - 40W 48" T12 117 - (1) 17W 24" T8 125 - (1) 25W 36" T8 132 - (1) 32W 48" T8	Standard with outlet and turn switch Specify LESS SW, LESS CO, or LESS SW & CO	TS - Trigger start B11 - Electronic T8 B4 - Magnetic T8 E1 - Magnetic T12 Leave blank for T5	120 277
IW XIW - Post painted, electronic start	8 - 8W 12" T5 13 - 13W 21" T5 28 - (2) 8W 12" T5 813 - 8W 12" and 13W 21" T5 213 - (2) 13W 21" T5	C - White grounded 6' cordset CO - Grounded convenience outlet L1 - Lamps installed LA - Less anything LI1 - Cool white lamp included SF - Solid front SW - Rocker switch		

KW, JBH AND OW TASK LIGHTING

KW, JBH, and OW Series task lighting is intended for uniform task illumination. 2', 3', 4', and 5' (KW) lengths available. JBH and OW sturdy design is ideal for halls, walls, or over beds.

Housing: Heavy gauge steel with baked white enamel over rust inhibiting phosphate coat, deburred, flush ends. See back cover for post paint color options. Flattened KOs provided, top, back, and sides. Forward throw angled housing (JBH).

Shielding: Snap-in clear pattern 12 prismatic acrylic. Viewing edge is linear prism (OW).

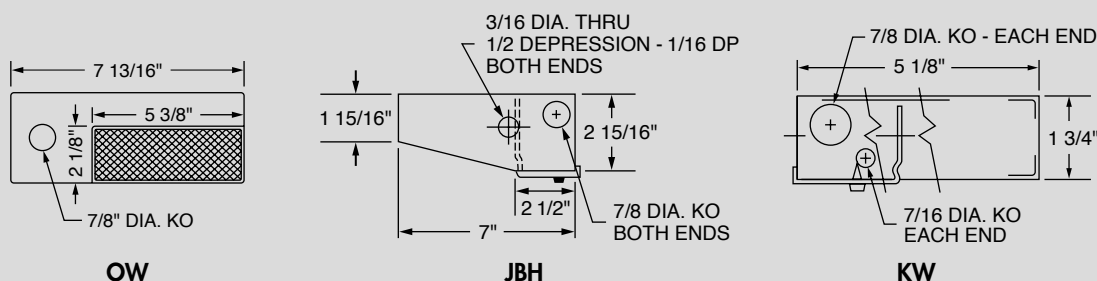
Options: 6' white 3 wire cord and plug, hardware/conduit connector, grounded convenience outlet, fast blow fuse, radio suppressor filter, slow blow fuse, rocker switch, translucent milk white front are available options.

Electrical: Factory wired for 110 - 125V operation, thermally protected, Class P, sound rated A ballast. U.L. listed.

Mounting: Individual or continuous rows. OW and JBH units are intended for surface wall mount, horizontal use.

NOTE

- See pages 58 through 63 for additional information.



Ordering Information

OW	2	17		B11	120V
SERIES	# LAMPS	LAMPS	OPTION	BALLAST	VOLTAGE
OW	2	17 - (2) 17W 24" T8	C - 6' white 3 wire cord and plug	B11 - Electronic T8	120
OWB - Black finish		20 - (2) 20W 24" T12	CC - Hardware/conduit connector	E1 - Magnetic T12	277
OWU - 2 lamps down		25 - (2) 25W 36" T8	CO - Grounded convenience outlet	RS - Rapid start	
1 lamp up, indicate if 2 ballasts required		30 - (2) 30W 36" T12	FB - Fast blow fuse		
JBH		32 - (2) 32W 48" T8	L - Lamps installed		
JBHUY - 1 5/8" upright cutouts in snap-in diffuser		34 - (2) 34W 48" T12	LA - Less anything		
		32 - (3) 32W U	RF - Radio suppressor filter		
			SB - Slow blow fuse		
			SF - Solid front (standard)		
			SW - Rocker switch		
			TF - Translucent milk white front		
KW	1	17 - (1) 17W 24" T8		B4 - Magnetic T8	
		25 - (1) 25W 24" T8		B11 - Electronic T8	
		32 - (1) 32W 48" T8			
		40 - (1) 34 or 40W 48" T12			

OV450 WET LOCATION ENCLOSED STRIPLITE

OV450 is ideal for outdoor applications like walkways and garages because it is U.L. Wet Location listed.

Housing: Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. KO's provided top and end.

Shielding: Rigid, one-piece, self-extinguishing (ASTM D635-74) reinforced polyester fiberglass, accepted by NSF and USDA. Robotically applied gasketing – 98% compression recovery, no seams, no porosity – forms moisture seal to D.R. acrylic diffuser or optional polycarbonate. Celcon latches standard; stainless latches optional.

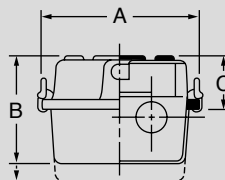
Options: Polycarbonate lens, stainless or tamperproof latches, low temperature ballast and wet location fittings.

Electrical: Fully wired for 120V, 60 Hz AC operation. Consult factory for sound rating. U.L. listed, wet wall or ceiling mount.

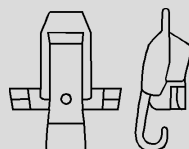
Mounting: Surface, stem, chain kit; individual or continuous rows. CA450xn Chain hanger assembly with support plate. Overall length 24", two per set. Have factory install plate with suffix CASP plus CA24 chain kit. SH450xn Single canopy and stem set, hardware and 24" stem. WLF Fitting for use with water tight conduit, field installed. One each. See page 63.

NOTE

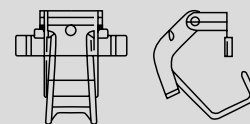
- See pages 58 through 63 for additional information



Dimensions	A =	B =	C =	Length
32W, 40W, 48W models	7 5/8"	4 1/2"	3"	49 13/16"
96" or tandem models	7 5/8"	5 5/8"	3"	97 13/16"



Celcon latches, standard



Stainless steel latches, specify SS

Photometric Data 2-40W 4' Model

CANDLEPOWER				LIGHT GUIDE (T12 LAMPS AND MAGNETIC BALLAST)							COEFFICIENT OF UTILIZATION												
Angle	0	45	90	Footcandles		Sq. ft. per fixture in large room with 8' to 10' ceilings.					RC	80	70	50	30	50	30						
						2-40W*	2-96" SL*	2-96HO**			RW	70	50	30	70	50	30						
0	1120	1120	1120	35	86	174	250				RCR												
5	1113	1123	1126	50	60	122	168				1	79	75	71	76	72	69						
15	1074	1125	1159	75	40	81	112				2	71	64	59	69	62	57						
25	998	1109	1178	100	30	61	84				3	65	56	50	62	55	49						
35	886	1060	1148	*multiply x .40 for 0°operating conditions for 40W & 96" **x .40 for 296HO at 0° operation							4	59	50	43	57	48	42						
45	737	950	1055	AVERAGE LUMINANCE				LIGHT DISTRIBUTION				5	54	44	36	52	42						
55	546	786	917	CD/SQ.M				Zone	Lumens	%Lamp	%Fixture	6	49	39	32	47	38						
65	336	618	777	Angle	0	45	90	0-30	932	14.8	19.7	7	45	35	28	44	34						
75	163	484	639	45	4752	5405	5528	0-40	1582	25.1	33.5	8	42	31	24	40	30						
85	50	320	454	55	4288	5046	5333	0-60	2980	47.3	63.0	9	38	28	21	37	27						
90	22	242	366	65	3492	4710	5267	0-90	4344	69.0	91.9	10	36	25	19	34	25						
				75	2587	4703	5407	Lamps = (2) F40 T12 @ 3150 lumens ea. Input Watts = 85.6 LER = FL47.7 Test #02267									11	34	26	20	16		
				85	1793	4497	5358	Ballast = Magnetic 120 v Ballast Factor = .94 S/MH: 0° = 1.3; 90° = 1.5									12	32	24	19	14	11	
				Comparative yearly lighting energy cost per 1000 lumens = \$5.03														13	30	22	17	13	10
				based on 3000 hrs. and \$.08 per KWH														14	28	20	15	11	8

Ordering Information

OV450	2	96	—	HO-E1	SSTP	120V
SERIES/LENS	# LAMPS	LAMPS	OPTION	BALLAST/TEMPS	SPECIAL	VOLTAGE
OV450 - 15% ** DR Crepe/Stipple Lens	1 - Single 2 - Double Tandem:	34 - 48" 60" 40 - 48" T12 48 - 48" HO	OV Battery Packs BDL500 - Two LP 2' - 8' BDL600 - Two LP 2' - 8' BDL900 - One LP 2' - 4'	B5 - Electronic T12 B11-M - Electronic T8 B11-LT - Electronic T8/0° - 90° E1 - Mag. T12/50° - 90°F HO-E1 - 800ma, -20° - +30°F max. HO-LT same as above, (4' for freezers only) LT - Cold, 0° - 50°F max.	CASP - Support plate for chain HAD - High-abuse 50% D.R. lens SSTP - Stainless tamperproof latch TSD - Tamper-proof screw driver	120 277
OV451 - Poly-carbonate lens	21 - Tandem two lamps 22 - Tandem four lamps	96 - 96" Slimline				
**Specify suffix HAD for 50% D.R. high-impact lens	To operate 450-240/296 over 50° F, specify SLH ballast.					

OV410 GASKETED STRIPLITE

OV410 Enclosed gasketed fixture is equipped with a pressure-lock cam latch to tightly seal out vapor, moisture and dust. Available in 4' and 8' lengths as well as T8, T12, and high output.

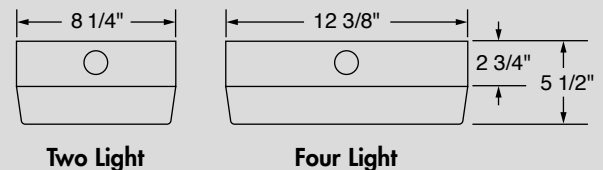
Housing: Heavy-gauge steel with welded corners and compressible gasketing. See back cover for post paint color options. KOs provided top and ends.

Shielding: Standard with clear acrylic prismatic lens.

Options: Popular options include aluminum housing on two-lamp 4' model, white lens, and wet location label (suffix VL) for ceiling mount only (includes RTV silicone seal).

Electrical: Fully wired for 120V, 60 Hz AC operation with ETL-CBM, thermally protected, automatic resetting, energy efficient, Class P, high-power-factor ballast, unless otherwise specified. Sound rated A ballast, except high-output models. U.L. listed.

Mounting: Surface or stem, individual or continuous rows.



Ordering Information				
OV410	2	32	B14	120V
SERIES	# LAMPS	LAMPS	BALLAST	VOLTAGE
OV410	2	32 - 32W 48" T8 40 - 34 or 40W 48" T12 48 - 48" HO 96 - 96"	B11 - Electronic T8 E1 - Magnetic T12 LT - 0° - 50°F max. HO - High Output HOE1 - 800 mA, -20° - +30°F max.	120 277
NOTE: Magnetic and electronic ballasts operate from +50° to 90°F. For -20° to 90°F use HO (high output) unit.				

OG ALUMINUM ENCLOSED LIGHT

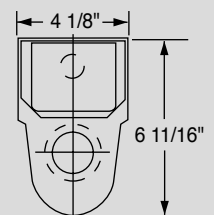
OG's narrow width and 4' to 16' length options make it ideal for parking garages and other outdoor applications where space is limited.

Housing: Die-formed, totally enclosed, fully gasketed, corrosion resistant aluminum housing. White is standard, see back cover for post paint color options. KOs provided.

Shielding: Extruded clear wraparound acrylic snap-in diffuser that will not discolor.

Electrical: Fully wired for 120V, 60 Hz AC operation with ETL-CBM, thermally protected, automatic resetting, energy efficient, Class P, high-power-factor ballast, unless otherwise specified. Sound rated A ballast, except high-output models. U.L. listed, damp location.

Mounting: Surface mount or stem hang, individual or continuous rows with OG-CB adapter.



Ordering Information				
OG	1	48	B14	120V
SERIES	# LAMPS	LAMPS	BALLAST	VOLTAGE
OG	1 - Single 21 - Tandem Two Lamps	48 - 48" 72 - 72" 96 - 96"	HO - 800 mA, Drop suffix HO - 430 mA PG - Power Groove 1500 mA, T17	120 277

V4000 SERIES VANDGARD®

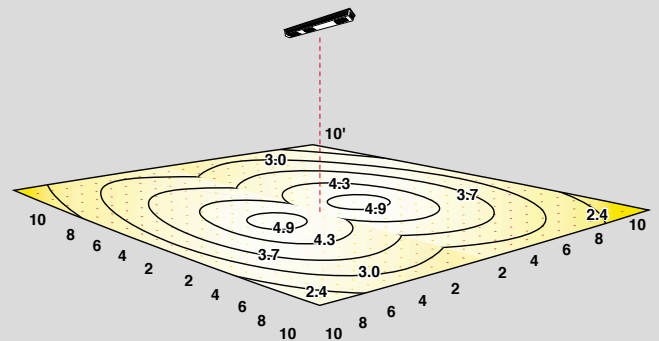
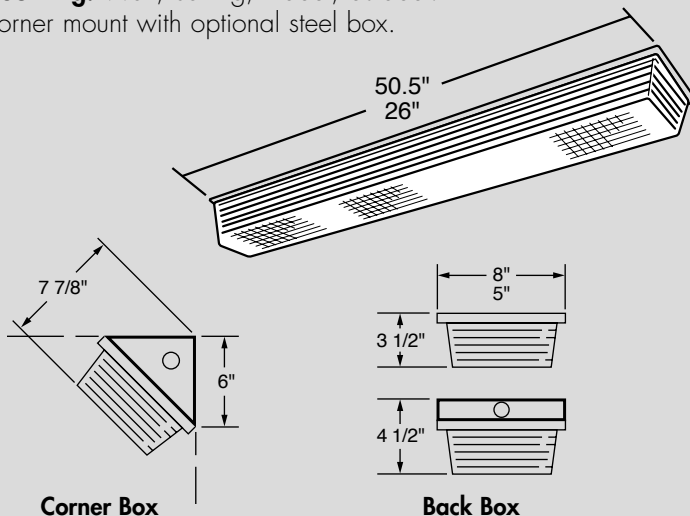
V4000 marine Grade A aluminum housing keeps out moisture, preventing rust, and also promotes longer lamp life and longer ballast life due to better heat dissipation and cooler operating temperatures. High abuse fluorescent fixture for T12 or T8 available in one and two lamp models.

Housing: Heavy-gauge steel or marine Grade A heavy-gauge aluminum with gasketing for maximum corrosion resistance, offered with optional back boxes and corner boxes. Models with painted parts receive high-gloss baked enamel applied after pre-treatment to ensure superior paint adhesion and rust resistance. Fixtures have white housing.

Shielding: High-impact, UV Treated, multipatterned Lexan® polycarbonate for remarkable impact strength. VX models are pattern X44 prismatic.

Electrical: Fluorescent models are wired for 120V, 60 Hz AC operation. Reliable start ratings: 20W/40W @ 50° F. U.L. listed, wet location ceiling mount, damp location wall mount.

Mounting: Wall, ceiling, indoor, outdoor.
Corner mount with optional steel box.



Horizontal Illuminance Analysis: Model V4232
Scale and Surface: .25" to 1' (1' Grid)
Units: Footcandles

Ordering Information

V	4017	A	MS	B11	120V
SERIES	LAMPS	HOUSING	OPTIONS	BALLAST	VOLTAGE
V - Vandgard VX - Steel housing	4017 - (1) 17W 24" T8 4020 - (1) 20W 24" T12 4132 - (1) 32W 48" T8 4140 - (1) 40W 48" T12 4217 - (2) 17W 24" T8 4220 - (2) 20W 24" T12 4232 - (2) 32W 48" T8 4240 - (2) 40W 48" T12	A - Aluminum No suffix - Steel	MS - Maximum security, standard on VX units HPF - High power factor, standard on 4' units L11 - Lamps included NL - Nite lite candelabra base socket for 7W incandescent PC - Photocontrol, backbox mounted VC - Steel corner box -	B11 - Electronic T8 E1 - Magnetic T12 LT - 0° - 50°F max	120 277
ACCESSORIES					
V40120 - Steel back box for 1/2" conduit for 20W unit (Discontinued) V401A20 - Aluminum back box for 1/2" conduit for 20W unit V40140 - Steel back box for 1/2" conduit for 40W unit (Discontinued) V401A40 - Aluminum back box for 1/2" conduit for 40W unit TSD - Tamper-proof screwdriver					

V5000 SERIES VANDGARD®

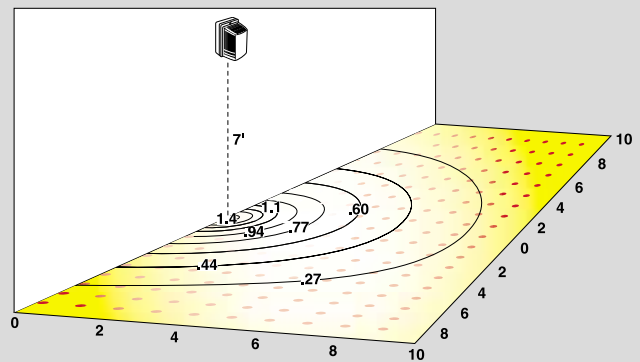
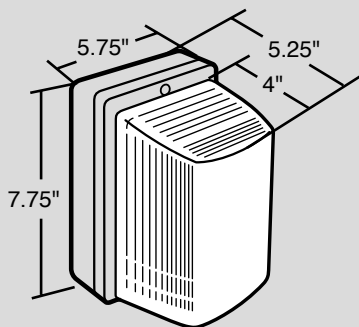
V5000 marine Grade A aluminum housing keeps out moisture, preventing rust, and also promotes longer lamp life and longer ballast life due to better heat dissipation and cooler operating temperatures. The long life span of the ballast on PL models results in lower maintenance costs. 4" deep models meet ADA requirements.

Housing: Marine Grade A heavy-gauge aluminum with gasketing for maximum corrosion resistance. Models with painted parts receive high-gloss baked enamel applied after pre-treatment to ensure superior paint adhesion and rust resistance. Fixture housing is white. V501A aluminum back box has a bronze finish.

Shielding: High-impact, UV Treated, clear prismatic Lexan® polycarbonate for remarkable impact strength.

Electrical: Incandescent fixtures have medium base socket. Fluorescent models are wired for 120V, 60 Hz AC operation. Reliable start ratings: 7W@0°F. U.L. listed, wet location: 60W max., damp location: ceiling - 60W max., wall - 75W max.

Mounting: Incandescent wall mount base up (top). See individual models for ratings for ceiling mount.



Horizontal Illuminance Analysis: Model V5014A
Scale and Surface: .25" to 1' (1' Grid)
Units: Footcandles

Ordering Information

V

SERIES

V - Vandgard

5000

LAMPS

5000 - (1) 60W or 75W A19
5007 - (1) 7W PL
5014 - (2) 7W PL

A

HOUSING

A - Aluminum
No suffix - Steel

MS

OPTIONS

MS - Maximum security, standard
HPF - High power factor
L11 - Lamps included
LL - Diode, extends lamp life, incandescent only
NL - Nite lite candelabra base socket for 7W incandescent
PC - Photocontrol, backbox mounted
W - White polycarbonate lens

120V

VOLTAGE

120
277*

*Back box may be required for 277V models

ACCESSORIES

V501A - Aluminum back box for 1/2" conduit, bronze
TSD - Tamper-proof screwdriver

VANDGARD® HIGH ENDURANCE

V6000 SERIES VANDGARD®

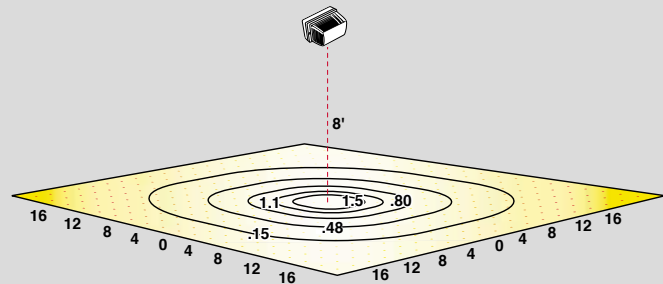
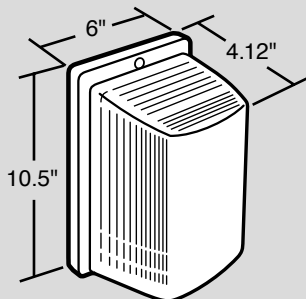
V6000 marine Grade A aluminum housing keeps out moisture, preventing rust, and also promotes longer lamp life and longer ballast life due to better heat dissipation and cooler operating temperatures. The long life span of the ballast on PL models results in lower maintenance costs. New design features Quad lamp models.

Housing: Marine Grade A heavy-gauge aluminum with gasketing for maximum corrosion resistance. Models with painted parts receive high-gloss baked enamel applied after pre-treatment to ensure superior paint adhesion and rust resistance. Fixture housing is white.

Shielding: High-impact, UV Treated, clear prismatic Lexan® polycarbonate for remarkable impact strength.

Electrical: Incandescent fixtures have medium base socket. Fluorescent models are wired for 120V, 60 Hz AC operation. Reliable start ratings: 7W @ 0°F, 9W @ 25°F, 13W @ 32°F, 18W Quad @ 32°F. U.L. listed, wet location.

Mounting: Incandescent wall mount, base up (top). See individual models for ratings for ceiling mount.



Horizontal Illuminance Analysis: Model V8014A
Scale and Surface: .125" to 1' (1' Grid)
Units: Footcandles

Ordering Information

V

SERIES

V - Vandgard

6009

LAMPS

6009 - (1) 9W PL
 6018 - (2) 9W PL
 6013 - (1) 13W PL
 6026 - (2) 13W PL
 6100 - Max 100W A
 6018AQD - (1) 18W Quad
 (Aluminum)

A

HOUSING

A - Aluminum
 Steel - Discontinued

MS

OPTIONS

MS - Maximum security, standard
 HPF - High power factor**
 L11 - Lamps included
 LL - Diode, extends lamp life, incandescent only
 NL - Nite lite candelabra base socket for 7W incandescent
 PC - Photocontrol, backbox mounted

**9W PL only

120V

VOLTAGE

120
 277*

*277V available only on 9W and 18W models or incandescent

ACCESSORIES

TSD - Tamper-proof screwdriver

V8000 SERIES VANDGARD®

V8000 marine Grade A aluminum housing keeps out moisture, preventing rust, and also promotes longer lamp life and longer ballast life due to better heat dissipation and cooler operating temperatures. The long life span of the ballast on PL and HID models results in lower maintenance costs.

Housing: Marine Grade A heavy-gauge aluminum with gasketing for maximum corrosion resistance. Models with painted parts receive high-gloss baked enamel applied after pre-treatment to ensure superior paint adhesion and rust resistance. Incandescent and Compact Fluorescent fixtures have white housings, HID housings are bronze.

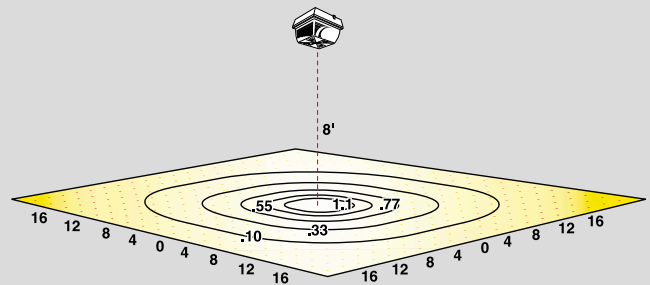
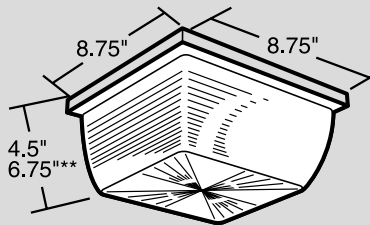
Shielding: High-impact, UV Treated, multipatterned Lexan® polycarbonate for remarkable impact strength.

Electrical: Incandescent fixtures have medium base socket. Fluorescent and H.I.D. models are wired for 120V, 60 Hz AC operation. Reliable start ratings: 7W @ 0°F, 9W @ 25°F, 13W @ 32°F, H.I.D. @ -20°F. U.L. listed, wet location.

Mounting: Incandescent wall mount, base up (top). See individual models for ratings for ceiling mount.

NOTE

- Consult factory for accessories. See page 61.



Horizontal Illuminance Analysis: Model V8014A
Scale and Surface: .125" to 1' (1' Grid)
Units: Footcandles

Ordering Information

V

SERIES

V - Vandgard
VH - High pressure sodium**
VA - Metal Halide**

** HID models include bronze cast aluminum housing for surface conduit

8000

LAMPS

8000 - (1) 75W A19
8007/9A - (1) 7W or 9W PL
8013 - (1) 13W PL
8014 - (2) 7W PL
8020 - (1) 20W Circline
8035 - (1) 35W E17 HPS-LPF
8050 - (1) 50W E17 HPS-LPF or MH
8070 - (1) 70W E17 HPS-LPF or MH

A

HOUSING

A - Aluminum
Steel - Discontinued

MS

OPTIONS

MS - Maximum security, standard
HPF - High power factor**
L11 - Lamps included
LL - Diode, extends lamp life, incandescent only
NL - Nite lite candelabra base socket for 7W incandescent
PC - Photocontrol, backbox mounted

** Available for 7W, 9W, and 13W, consult factory for HPS or MH

120V

VOLTAGE

120
277*

*Back box may be required for 277V models

ACCESSORIES

V801 - Steel back box for 1/2" conduit, bronze
V801A - Aluminum back box for 1/2" conduit, bronze
TSD - Tamper-proof screwdriver

V1000 SERIES VANDGARD®

V1000 marine Grade A aluminum housing keeps out moisture, preventing rust, and also promotes longer lamp life and longer ballast life due to better heat dissipation and cooler operating temperatures. The long life span of the ballast on PL and HID models results in lower maintenance costs.

Housing: Marine Grade A heavy-gauge aluminum with gasketing for maximum corrosion resistance. Models with painted parts receive high-gloss baked enamel applied after pre-treatment to ensure superior paint adhesion and rust resistance. Incandescent and Compact Fluorescent fixtures have white housings, HID housings are bronze.

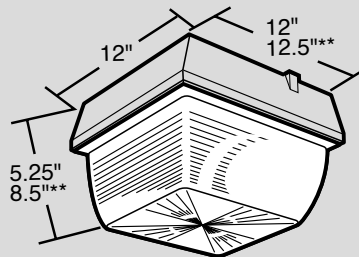
Shielding: High-impact, UV Treated, multipatterned Lexan® polycarbonate for remarkable impact strength.

Electrical: Incandescent fixtures have medium base socket. Fluorescent and H.I.D. models are wired for 120V, 60 Hz AC operation. Reliable start ratings: 7W @ 0°F, 9W @ 25°F, 13W @ 32°F, H.I.D. @ -20°F. U.L. listed, wet location.

Mounting: Incandescent wall mount, base up (top). See individual models for ratings for ceiling mount.

NOTE

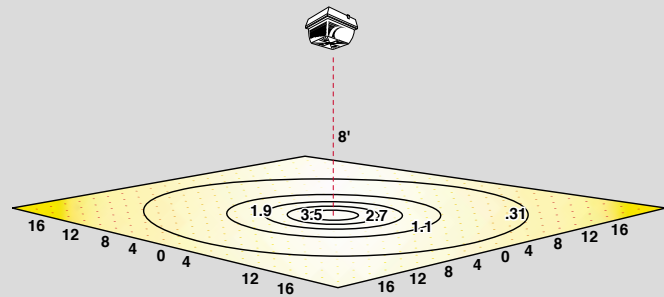
- Consult factory for accessories. See page 61.



Incandescent or
Compact Fluorescent



HID



Horizontal Illuminance Analysis: Model VA1100
Scale and Surface: .125" to 1' (Grid 1')
Units: Footcandles

Ordering Information

V

SERIES

V - Vandgard
VH - High pressure sodium**
VA - Metal Halide**

** HID models include bronze cast aluminum housing for surface conduit

1000

LAMPS

1000 - (2) 60W A19
1018 - (2) 9W PL
1022 - (1) 22W Circline
1026 - (2) 13W PL
1026AQDB14 - (1) 26W Quad
1052AQDB14 - (2) 26W Quad
1100 - (1) 100W E17 HPS-LPF or M90 MH
1150 - (1) 150W E17 HPS-LPF

A

HOUSING

A - Aluminum
Steel - Discontinued

MS

OPTIONS

MS - Maximum security, standard
HPF - High power factor†
L11 - Lamps included
LL - Diode, extends lamp life, incandescent only
NL - Nite lite candelabra base socket for 7W incandescent
PC - Photocontrol, backbox mounted

† Available for 9W and 13W, consult factory for HPS or MH

120V

VOLTAGE

120
277*

*Back box may be required for 277V models

ACCESSORIES

V801 - Steel back box for 1/2" conduit, bronze
V801A - Aluminum back box for 1/2" conduit, bronze
TSD - Tamper-proof screwdriver

VH6050 SERIES VANDGARD®

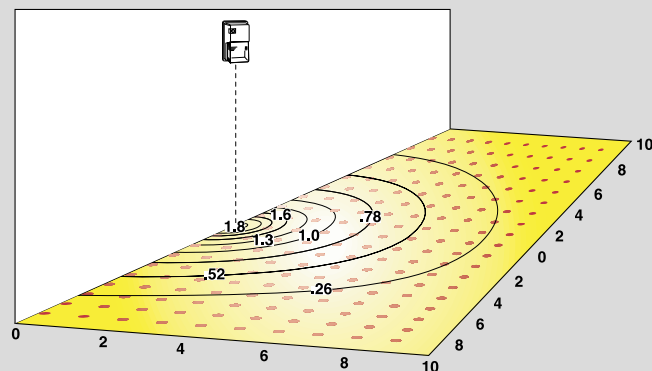
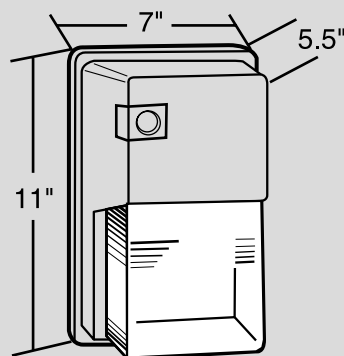
VH6050 marine Grade A aluminum housing keeps out moisture, preventing rust. High-impact bronze tone acrylic housing prismatic lens. Built-in photocell saves energy. No exposed screws.

Housing: Marine Grade A heavy-gauge aluminum with gasketing for maximum corrosion resistance. Models with painted parts receive high-gloss baked enamel applied after pre-treatment to ensure superior paint adhesion and rust resistance. Fixture housing is bronze.

Shielding: High-impact acrylic.

Electrical: H.I.D. models are wired for 120V, 60 Hz AC operation. Reliable start ratings: 50W sodium @ -20°F. UL listed, wet location.

Mounting: Wall mount, outside.



Horizontal Illuminance Analysis: Model VH6050AL11PC
Scale and Surface: .25" to 1' (1' Grid)
Units: Footcandles

Ordering Information

VH

SERIES

VH - High pressure sodium

6050

LAMPS

6035 - (1) 35W E17 HPS-LPF
6050 - (1) 50W E17 HPS-LPF

A

HOUSING

A - Aluminum
Steel - Discontinued

PC

OPTIONS

HPF - High power factor*
L11 - Lamps included
LL - Diode, extends lamp life, incandescent only
PC - Photocontrol, backbox mounted

*Consult factory

120V

VOLTAGE

120
277

VANDGARD® HIGH ENDURANCE

V9000 SERIES VANDGARD®

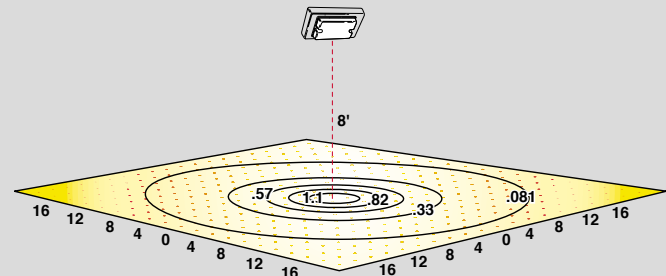
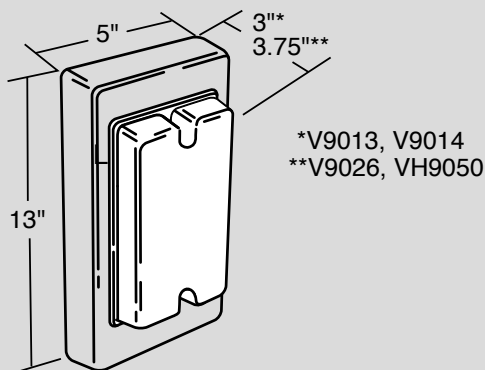
V9000 marine Grade A aluminum housing keeps out moisture, preventing rust, and also promotes longer lamp life and longer ballast life due to better heat dissipation and cooler operating temperatures. The long life span of the ballast results in lower maintenance costs.

Housing: Marine Grade A heavy-gauge aluminum, painted black, with gasketing for maximum corrosion resistance. Models with painted parts receive high-gloss baked enamel applied after pre-treatment to ensure superior paint adhesion and rust resistance. White interior, black exterior.

Shielding: High-impact, UV treated milk white polycarbonate lens.

Electrical: Fluorescent and H.I.D. models are wired for 120V, 60 Hz AC operation. Reliable start ratings: 7W @ 0°F, 9W @ 25°F, 13W @ 32°F, H.I.D. @ -20°F. U.L. listed, wet location.

Mounting: Wall, ceiling, indoor, outdoor. See individual models for ratings for ceiling mount.



Horizontal Illuminance Analysis: Model V9026
Scale and Surface: .125" to 1' (1' Grid)
Units: Footcandles

Ordering Information

V

SERIES

V - Vandgard
VH - High pressure sodium

9013

LAMPS

9013 - (1) 13W PL
9014 - (2) 7W PL
9026 - (2) 13W PL
9050 - (1) 50W E17 HPS-LPF

A

HOUSING

A - Aluminum
Steel - Discontinued

MS

OPTIONS

MS - Maximum security, standard
L11 - Lamps included
LL - Diode, extends lamp life, incandescent only
NL - Nite lite candelabra base socket for 7W incandescent
W - White polycarbonate lens, standard
Consult factory for prismatic lens, minimums apply

120V

VOLTAGE

120
277

ACCESSORIES

TSD - Tamper-proof screwdriver

V3000 SERIES VANDGARD®

V3000 marine Grade A aluminum housing keeps out moisture, preventing rust, and also promotes longer lamp life and longer ballast life due to better heat dissipation and cooler operating temperatures. Cycles less than steel back models, leading to longer lamp life. The long life span of the ballast on PL and HID models results in lower maintenance costs.

Housing: Marine Grade A heavy-gauge aluminum with gasketing for maximum corrosion resistance. Models with painted parts receive high-gloss baked enamel applied after pre-treatment to ensure superior paint adhesion and rust resistance. Incandescent and Compact Fluorescent fixtures have white housings, HID housings are bronze.

Shielding: High-impact, UV Treated, multipatterned Lexan® polycarbonate for remarkable impact strength.

Electrical: Incandescent fixtures have medium base socket. Fluorescent and H.I.D. models are wired for 120V, 60 Hz AC operation. Reliable start ratings: 13W @ 32°F, H.I.D. @ -20°F. U.L. listed, wet location.

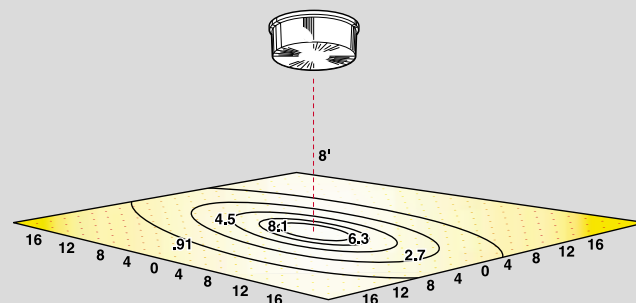
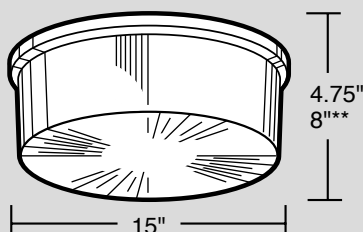
Mounting: Incandescent wall mount, base up (top). See individual models for ratings for ceiling mount.



Incandescent or
Compact Fluorescent



HID



Horizontal Illuminance Analysis: Model VA3100
Scale and Surface: .125" to 1' (1' Grid)
Units: Footcandles

Ordering Information

V

SERIES

V - Vandgard
VH - High pressure sodium**
VA - Metal Halide**

** HID models include bronze cast aluminum housing for surface conduit

3150

LAMPS

3150 - (2) 75W A19 or 150W E17 HPS-LPF
3054 - 22W + 32W Circline
3026 - (2) 13W PL
3035 - (1) 35W E17 HPS-LPF
3050 - (1) 50W E17 HPS-LPF
3100 - (1) 100W E17 HPS-LPF or M90 MH

A

HOUSING

A - Aluminum
Steel - Discontinued

MS

OPTIONS

MS - Maximum security, standard
HPF - High power factor*
L11 - Lamps included
LL - Diode, extends lamp life, incandescent only
NL - Nite lite candelabra base socket for 7W incandescent
PC - Photocontrol, backbox mounted

* Available for 13W, consult factory for HPS or MH

120V

VOLTAGE

120
277

ACCESSORIES

TSD - Tamper-proof screwdriver

VANDGARD® HIGH ENDURANCE

GUIDE TO NOMENCLATURE

Specifications (All Types)

Housing: Die-formed heavy gauge steel. All painted parts receive high-gloss baked enamel finish applied after pre-treatment to ensure superior paint adhesion and rust resistance. Minimum reflectance 86%. Consult factory for models available with spec-grade "X", powder coat, or 90% reflectance finish as required.

Electrical: Fully wired for 120V, 60 Hz AC operation with ETL-CBM, thermally protected, automatic resetting, energy saving, Class P, high-power-factor ballast, unless otherwise specified. Sound rated A ballast, except slimline and high-output models. Knockouts and/or access plate provided as noted by series type. All models are U.L. listed.

Critical Applications: SIMKAR strives to offer the most current product designs and value. Consequently, all SIMKAR products are subject to redesign and revision. Critical applications such as size, operating temperature, or sensor operation should be confirmed with the factory.

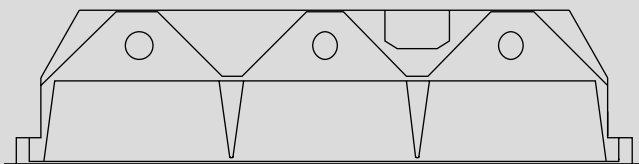
QTY	TYPE	CATALOG #	VOLTAGE

Ordering Information System

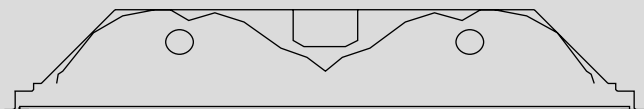
T	E	—	244	332	SR	18C	B11	120V
MOUNTING	UPGRADE / OTHER				SPECIAL FEATURE	CELLS		VOLTAGE
F - Flange S - Surface T - Lay-in XF - Spec Grade Flange XT - Spec Grade Lay-in	FW - Flat White Aluminum RB - Regressed Black RW - Regressed White WF - White Frame (if not standard)				AB - Blank static unit AC - Air combination AH - Heat removal ends Air Handling, see page 61 AR - Anodized specular aluminum reflector AS - Supply/return side B - Black door CG - Gold cell louver CW - White cell louvers DA - Damper DL - Damp location label (standard on many items) EM - Emergency socket FB - Fast-blow fusing FL - Flexible leads G - Gold durabolic HR - Heat removal ELS B50 - Bodine ELS-2L B90 - Bodine ELS-1L <u>Lamps:</u> L3 - Saver Cool L4 - Saver Warm L9 - Specify color K° M/S - Master/satellite MW - Modular wiring PL - Plug-in wiring RF - Radio suppressor S - Silver specular SB - Slow-blow fusing SD - Silver durabolic SM - Silver semi-specular SR - Silver reflector TP - Tamper-proof screw WR - White reflector 90% 20G - 20 gauge (2x2 and 2x4 only)	C - Number of cells in louver	120 277 Consult factory for other voltages	
SHIELDING/LOUVER		SIZE					BALLAST	
A - 1/2 x 1/2 x 1/2" Cell B - .125 Polycarbonate prism. C - .200 P15 E - Shallow parabolic 1x4 with 26 cells (2 rows of 13) 2x2 with 36 cells (6 rows of 6) 2x4 with 78 cells (6 rows of 13) EP - 3" deep parabolic cell E2P - Deep precision cut-off parabolic E3P - Shallow precision parabolic J - 3/4 x 3/4 x 1/2" Double Wedge J5 - 3/4 x 3/4 x 3/8" Econo Wedge (Suffix PL5) K - .125 acrylic prismatic L - 1/2 x 1/2 x 3/8" white eggcrate N - Injection molded acrylic prismatic O - .140 high impact P - Acrylic drop-dish white lens Q - .125 RFI #12 S - 1 1/2 x 1 1/2 x 1" Supercube T - 3/4 x 3/4 x 1/2" Double Wedge with overlay T5 - 3/4 x 3/4 x 3/8" Econo Wedge with overlay U - .156 prismatic acrylic W - Flat white acrylic X - Parahex louver Y - Standard acrylic prismatic A12 Z - Customer specified lens		122 - 1 x 2 124 - 1 x 4 242 - 2 x 2 244 - 2 x 4 484 - 4 x 4 66 - 6" x 6" 82 - 8" x 24" 84 - 8" x 48" 94 - 9" x 48"				B4 - Magnetic T8 B5 - Electronic T12 B8 - Customer supplied B9 - Customer specified B10 - Magnetic TT B11 - Electronic T8, RH, Instant Start B14 - Electronic TT DIM - Dimming ballast E1 - Magnetic T12 HO - High Output LB - Less ballast LT - Cold weather PG - Power Groove T17 RES - Residential grade Power Products brand SHR - Rapid Start; use w/occupancy sensors VHO - Very High Output 3L - (1) Three-light 4L - (1) Four-light		
		LAMPS						
		217 - (2) 17W 24" T8 131 - (1) 31W U6" T8 132 - (1) 32W 48" T8 140TT - (1) 40W 22" TT 1440 - (1) 34/40W T12 232 - (2) 32W 48" T8 232U - (2) 32W U6" T8 240TT - (2) 40W 22" TT 240U - (2) U 6" T12 2440 - (2) 34/40W T12 317 - (3) 17W 24" T8 332 - (3) 32W 48" T8 332U - (3) 32W U 1 5/8" T8 340TT - (3) 40W 22" TT 3440 - (3) 34/40W T12 417 - (4) 17W 24" T8 432 - (4) 32W 48" T8 96 - 96" lamp(s) <u>Tandem 96" example:</u> 2132 - (2) lamps 32W 2232 - (4) lamps 32W						
								NOTE: See pages 59 - 63 for additional information about many of the above items.

NOTE: See pages 59 - 63 for additional information about many of the above items.

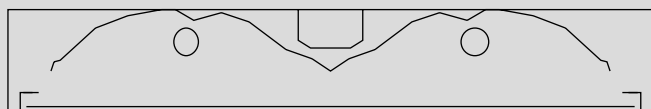
POPULAR REFLECTORS FOR SIMKAR FIXTURES



Aluminum Reflectors for Parabolic Series TEP, TE2P —
Apply SR, AR or VWR. Example: TEP244 432 18C SR B11



Aluminum Reflectors for Troffer Series TY, FY, TK, etc. —
Apply SR, AR or VWR. Example: TY244 332 B11 SR



Aluminum Reflectors for Surface Series SY244, SB, etc. —
Apply SR, AR or VWR. Example: SY244 432 B11 SR

SIMKAR® Reflectors

Computer designed to be a perfect combination with SIMKAR fixtures. Apply SR, AR or VWR to upgrade your fixture type.

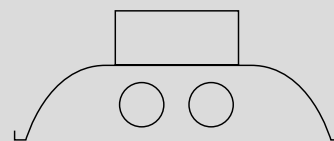
Material:

SR – Specular Silver laminated to aluminum

AR – Specular Anodized Aluminum

VWR – White finish, 90% reflectance.

Mounting: Industrials and Strip reflectors typically replace the ballast cover and attach with turn fasteners. Troffers, parabolics, wraparound and surface box reflectors attach with screws and are shipped in position.

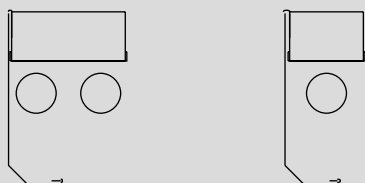


Steel Reflectors for Industrial IE Series —

Apply SR for silver reflector. Example: IE232 A B11 SR
Add prefix X for 90% white reflector.



Reflectors for Wraparound Series SY920, SY950, etc. —
Apply SR or AR. Example: SY920 232 SR B11



ARW Asymmetric Reflectors for Striplites

Reflector width = 2", reflector height = 4 9/16",
total height = 6 7/16"

Fits CHX, CH and OCH Models — One or Two Lamp

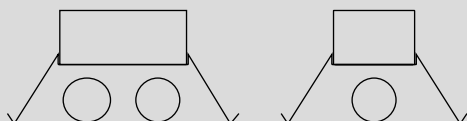
ARW 20 - 24"

ARW 30 - 36"

ARW 48 - 48"

ARW 96 - 96" (two 48" units)

Must be ordered as an accessory. Apply AR for aluminum
or SR for silver.



Symmetric Reflectors for Striplites — Silver on aluminum (SR), anodized aluminum (AR), or white steel (VWR).

Reflector width = 4 3/4" (2 lamp), 3 1/8" (1 lamp)
reflector height = 2", total height = 3 7/8"

Fits CHX, CH and OCH Models — One or Two Lamp

SRW 120 - 24" CH or OCH

SRW 130 - 36" CH or OCH

SRW 140 - 48" CH or OCH

SRW 48 - 48" (two-lamp or wide body)

SRW 96 - 96" (two-lamp or wide body)

Must be ordered as an accessory. Apply AR for aluminum
or SR for silver.

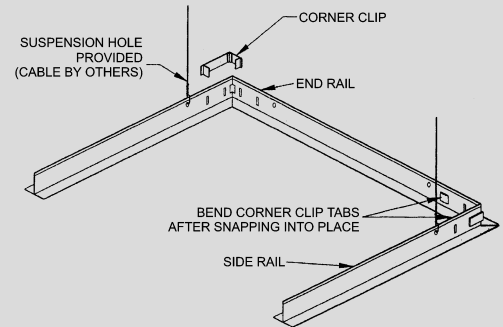
LAY-IN ACCESSORIES AND UPGRADES

Grid Conversion Kits

An alternative to flanged fixtures. Complete individual ceiling-mount kits set up for independent suspension. Allows installation of regular lay-in fixtures in sheetrock or plaster ceilings without the use of flange, level lugs or plaster frames PFI.

White extruded aluminum with mitered corners. Easy installation. Bulk packed as required. Not for continuous rows. Check available plenum swing clearance on deep fixtures.

CATALOG #	SIZE	FRAME OUT	CODE #
For Parabolics			
GCK 12	1' X 2'	12.5" X 24.5"	55-01013
GCK 14	1' X 4'	12.5" X 48.5"	55-01011
GCK 22	2' X 2'	24.5" X 24.5"	55-01010
GCK 24	2' X 4'	24.5" X 48.5"	55-01012
For Troffers			
FTI 12	1' X 2'	12.5" X 24.5"	55-01020
FTI 14	1' X 4'	12.5" X 48.5"	55-01021
FTI 22	2' X 2'	24.5" X 24.5"	55-01022
FTI 24	2' X 4'	24.5" X 48.5"	55-01023
For TWW Series Wall Washer			
TWW FK82	8" X 2'	8.5" X 24.5"	55-01000
TWW FK84	8" X 4'	8.5" X 48.5"	55-01001

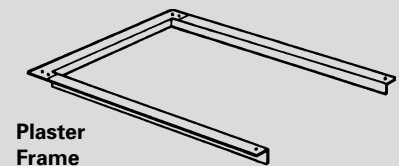
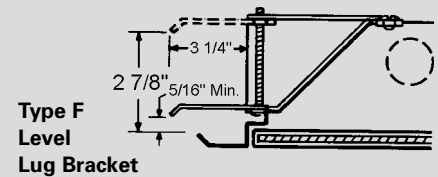


Flange Frame Out

A mounting accessory for flanged units to install in sheetrock or plaster ceilings.

PLASTER FRAME KIT CATALOG NUMBER*	NOMINAL SIZE	MAKE CEILING OPENING†‡
PF __ 14"	1' X 4'	12 1/4" X 48 3/8"
PF __ 22"	2' X 2'	24 1/4" X 24 3/8"
PF __ 24"	2' X 4'	24 1/4" X 48 3/8"
PF __ 44"	4' X 4'	48 1/4" X 48 3/8"

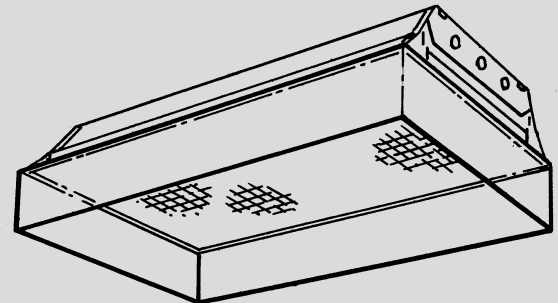
† Add only 24" or 48" for fixture in continuous rows.
 * Insert "I" for Individual kit; insert "C" for Continuous row; insert "E" for End row kit.
 ‡ Add 1/4" if using plaster frame or FTI kit.



Skylite Collar

Deep regression for recessed skylight effect. Universal for lay-in fixtures in T-bar ceilings with proper clearance. Usually fitted to troffer with white diffuser and daylight lamps. Maintains visual comfort with low glare.

Steel collar with baked white enamel finish. Shipped flat. Assembles quickly at jobsite. Available in 2", 4" or 6" depth. Specify TWS, include dimensions (1x4, 2x2, 4x4).

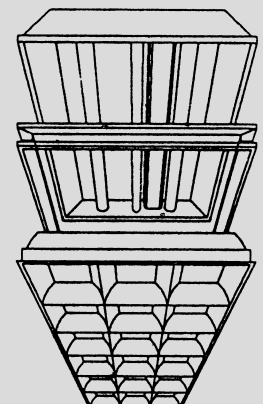


Parabolic Conversion Louver and Collar

For lay-in fixtures in T-bar ceilings with sufficient clearance. Low iridescence semi-specular aluminum 3"-deep parabolic louver in black baked enamel collar. Black reveal creates attractive "floating louver" appearance. High visual comfort and efficiency maintained. Hinged louver allows easy relamping.

Troffer (not included) rests on top of collar assembly, adds nominal 2" to depth of fixture. Fasten collar to grid with EC515 for added security. Standard pack: 3 sets. Four (4) popular configurations.

SIZE	DESCRIPTION	CODE #	CONFIGURATION
1' x 4'	Para-Conv T244-18 Collar	32-71120	Two 4'
2' x 2'	Para-Conv T244-18 Collar	32-71110	One 2' or three 2'
2' x 4'	Para-Conv T244-18 Collar	32-71100	Three 4'
2' x 4'	Para-Conv T244-18 Collar	32-71103	Four 4'

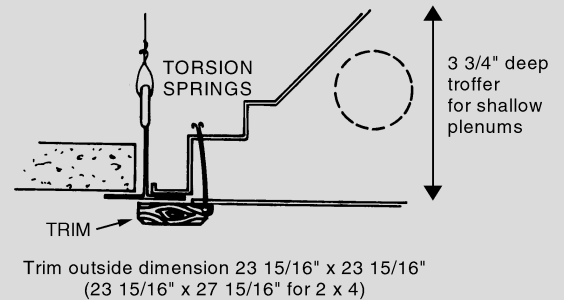
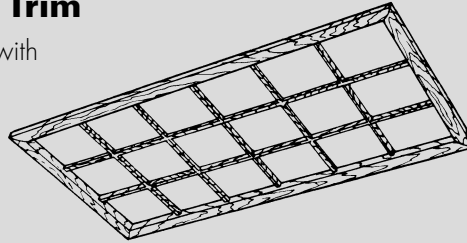


LAY-IN ACCESSORIES AND UPGRADES

Decorative Oak Troffer Trim

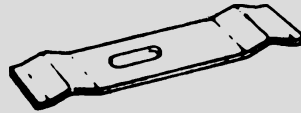
Solid oak medium gloss finish grid with flat diffuser. Fits SIMKAR 2 x 2 and 2 x 4 lay-in troffers ONLY.

Torsion springs fit in hinge/latch openings to fasten trim to troffer housing. Bulk shipped as required. Specify TWG 2 x 2 or TWG 2 x 4.



Earthquake Clips

Provides additional security beyond the integral clip on 2'-wide troffers. EC kit includes clip and screws. Specify EC515 for deep parabolics.



Air-handling functions are offered on SIMKAR TEP deep-cell parabolic troffers.

NOTE: Efficacy may be affected by today's cooler running ballasts and T8 lamps which, when combined with master/satellite wiring plans, actually result in a much cooler lamp chamber. Additional heat removal may cause starting problems with some energy-saving lamp types. Consider the rating of each fixture, plenum design, and lamp and ballast combination before specifying air-handling units.

Heat Removal

For flush steel door models, suffix HR provides heat removal through extraction vents on top of fixture housing. Also apply suffix DA for adjustable dampers accessible from inside fixture. For units with flat plastic diffusers, a hinged flush steel door with open ends for heat removal is supplied.

For parabolic and louvered models, suffix AH provides heat removal through extraction vents in ends of TEP and TE2P troffers, or through top of type T and F troffers.

Air Combination

For parabolic troffers only, suffix AC provides air supply slots on 4' sides hidden from sight by a black reveal. Unit is compatible with a variety of air supply boots. Unit also has ends open for heat removal through extraction vents and may be ordered with DA adjustable dampers.

Supply Air or Air Return

For parabolic troffers only, suffix AS provides air slots on 4' sides hidden from sight by black reveal and hinged floating door. Unit is compatible with a variety of air supply boots. No heat extraction vents on this type.

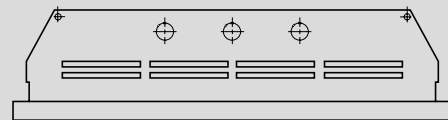
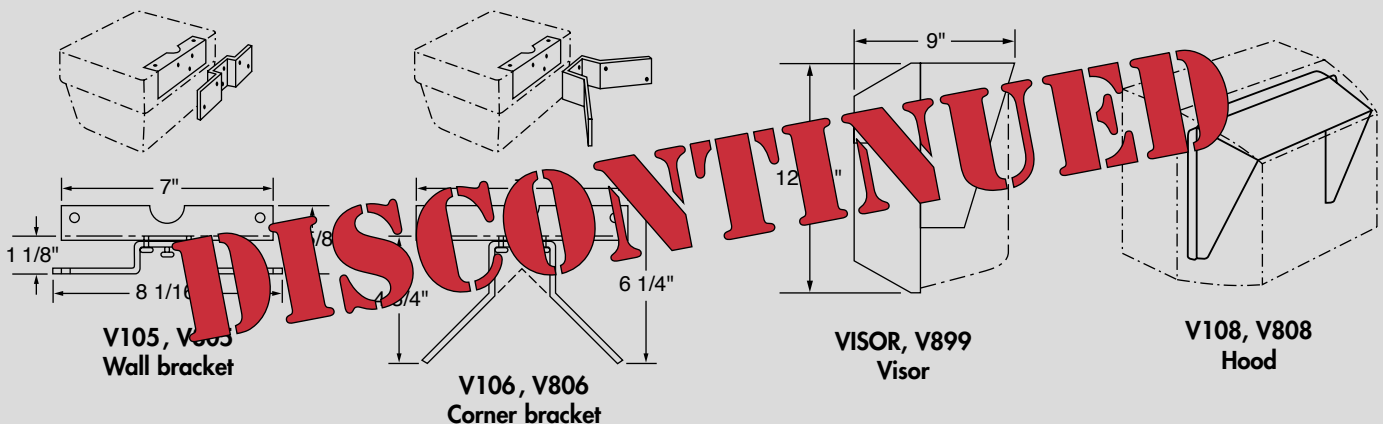


Illustration of TEP-AH deep parabolic shows vents for extraction through end.

V1000, V8000 VANDGARD® ACCESSORIES



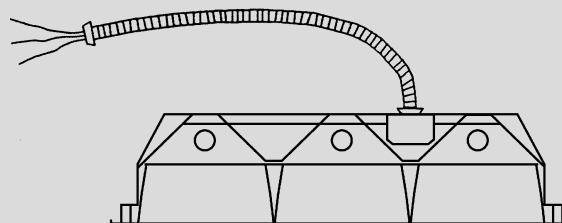
FACTORY WIRED OPTIONS

6' Flex and Leads (Suffix FL)

Specify desired flex:

- FL1 = 3/8" flex with two #18, one ground and one connector
- FL2 = 3/8" flex with three #18, one ground and one connector
- FL3 = 1/2" flex with three #18, one ground and one connector
- FL4 = 3/8" flex with two #18, one ground and two connectors
- FL5 = 3/8" flex with three #18, one ground and two connectors
- FL6 = 1/2" flex with three #18, one ground and two connectors
- FL9 = Customer specified or supplied

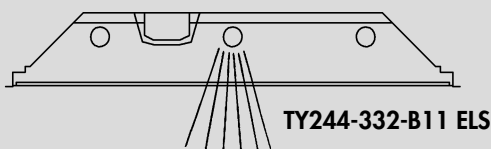
Flex can also be added to a Master fixture.



Example: Flex with two connectors TEP-244-332-B11-FL4 (or FL5 for inboard/outboard switching).

Emergency Lighting System (Suffix ELS)

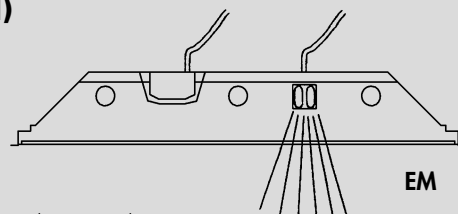
Available on a variety of fixtures, will upgrade the selected fixture to respond to power failure with one lamp operational for 90 minutes. U.L. listed, including indicator light and test button. Bodine emergency packs may also be specified.



ELS SUFFIXES	
Suffix	Lumen Rating
B50	1100 - 1400
B90	500 - 600
B100	350 - 450
Damp Location	Lamps
BDL500	(2) 2' - 8'
BDL600	(2) 2' - 8'
BDL900	(1) 2' - 4'

Emergency Socket (Suffix EM)

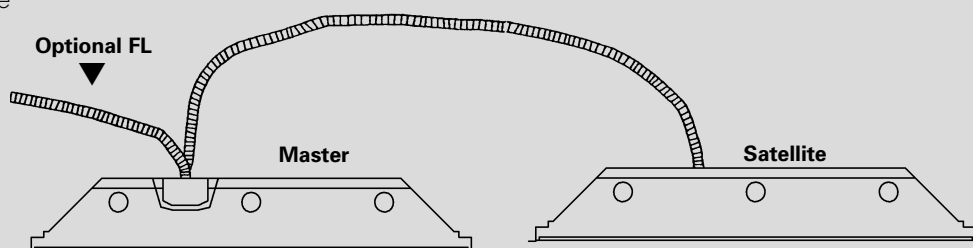
Equips fixture with fluorescent or PL socket for nightlight or emergency use.



Master/Satellite (Tandem) Concept (Suffix M/S)

The Master/Satellite option offers energy saving by switches or controls allowing center lamp and outside lamps to be individually operated with fewer ballasts and connections. Combine with electronic ballasts to handle many lamps from one master unit.

Example: For three-lamp troffers, order a four-lamp and two-lamp electronic ballast Master, all prewired at the factory and ready to snap into position on access plate with 9' of flex to satellite fixture, which is also prewired to accept nylon snap-in connector. The four-lamp ballast drives outboard lamps and the two-lamp ballast drives inboard lamp. Standard 9' or optional 12' interconnect. Master unit available with optional flex and lead.



TY244-332 B11 4L + 2L Master; TY244-332 Satellite

Modular Wiring

Factory will modify standard product to accept specified system.

Plug-In Connectors

Specify optional modular wiring for your system:

Circuit wired to Black:

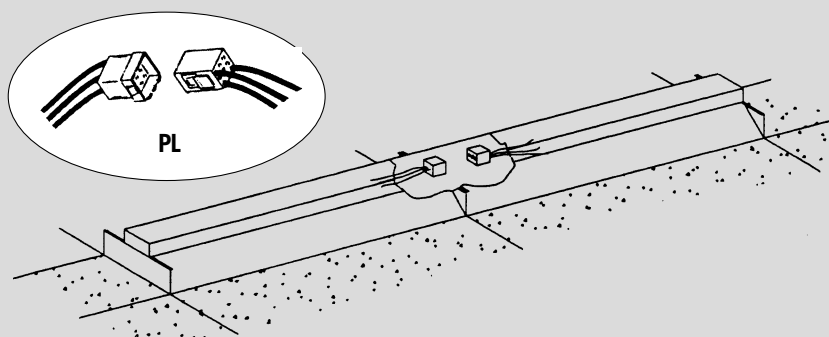
- PL1 BK - one circuit, two wires
- PL2 BK - two circuits, three wires
- PL3 BK - three circuits, four wires

Circuit wired to Red:

- PL2 RD - two circuits, three wires
- PL3 RD - three circuits, four wires

Circuit wired to Blue:

- PL3 BL - three circuits, four wires



LABOR SAVING ACCESSORIES

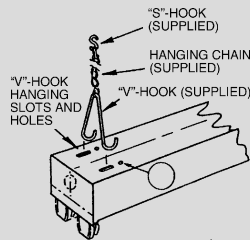
AC—Aligner Clips. Hold reflectors in alignment.



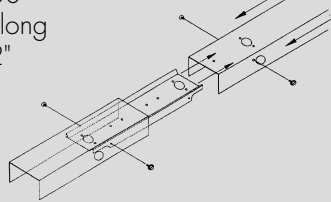
CAACW—Suspension kit includes white cord, white canopies, and 1/16" aircraft cable for maximum 36" suspension length. Individual mounting only.

CHAIN HANGER ASSEMBLY—

Hanging Kit. Includes two 18" chains, two "V" hooks, and two "S" hooks for a total drop of 24". Additional chain length available.



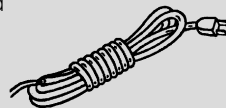
CHJ—Connector Joiner #64-22000 and Hex Head Screws. Connect long rows of CH, CHX, IE or IF 4 1/2" housings.



COUNTER PARTS KIT—

A grouping of common replacement parts such as end plates, center braces, sockets, socket bars and screws.

CP3—Cord and Plug. Six-foot 18-3 SJ cord and plug wired with strain relief to fixture. Specify color and cord attachment point, e.g., end or side. For field installed cordset, order CP3NW and specify length and color.



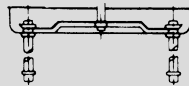
CS—Ceiling Spacer. Maintains 2 1/2" space between top of fixture and ceiling. Hollow stem. Use with any surface fixture.



FB or SB—Fast-Blow or Slow-Blow Fusing. One required per ballast.



FH—Twin Canopy and 24" Stem Set. Two stems and hardware.



OLS—Clear Polycarbonate Lamp Guard. Contains glass from shattered lamps. Recommended for efficient cold weather operation. May be required in food service areas. Order by length and lamp type:

OLS40/34 - 48" T12 lamp.

OLS32 - 48" T8 lamp.

OLS48 - 48" slimline; for HO, use heat dissipation screen

OLS-HS 42-00373.

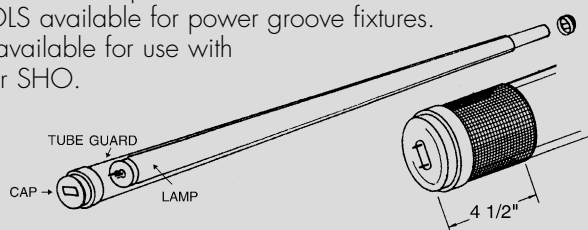
OLS72" and OLS96" also available.

OLS96/T8 - 96" lamp for T8 models.

Special OLS available for power groove fixtures.

No OLS available for use with

VHO or SHO.



PL—Plug-in Connector. Also see page 62.



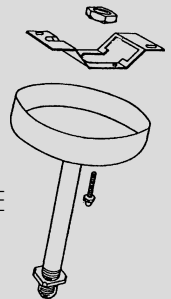
PSW—Pull Switch Option. PSW for standard grade pull switch or LSW for premium Levolor pull chain switch.



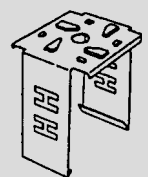
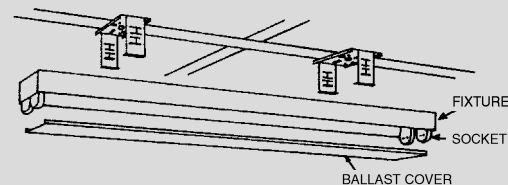
RF—Radio Frequency Suppressor. Broad band filter used to suppress radio interference noise that may be conducted through power lines. Still has application on units with reduced harmonic ballasts. Note: Troffers or surface boxes can also specify an RFI diffuser, e.g. "Q" for .125 RFI pattern #12.



SH—Single White Canopy and 24" Stem Set with mounting hardware (one set). Factory recommends use of two stems on 4' and 8' individual fixtures or continuous rows. Factory also recommends joiner (CHJ) for CH/ CHX/IE and IF. Note: Fixtures more than 15" wide require four stems, e.g., 2 x 4 surface box.

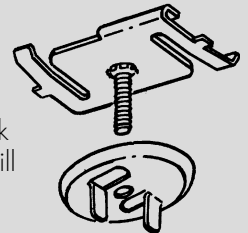


SN—Snapper Bracket. Snaps onto Tbar to hold fixture and maintain 1 3/4" space from ceiling on HO body or 2 5/8" on slimline. Can also be used on standard ceilings with proper support. Use with CH, CHX, IE, IF. Tabs adjust to high output housing.



TBH—T-Bar Grid Mounting Clip.

Twists and clips onto grid and provides thread to mount housing, which is supported by turn fastener. Available bulk or packaged in sets of two. Two clips will support fixtures up to 48" x 15" wide.



WIREGUARDS—14 Gauge Security Cage. For channels and industrials:

WG120 - 24" for 1 lamp

CH or OAH.

WG130 - 36" for 1

lamp CH or OAH.

WG140 - 48" for 1 lamp CH or OAH.

WG48 - 48" for CHX (WG96 for 96" Kit).

WG240 - 48" for 2 lamp CH or OAH

(WG296 for 96" Kit).

LGIF48 - 48" hinged wire

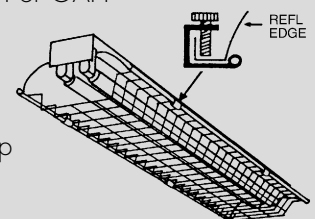
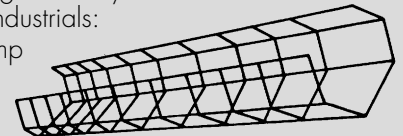
lamp guard for IF

Industrial.

LG48 - 48" hinged wire lamp

guard for IE Industrial

(use 2 for 96").



SIMKAR MAKES IT EASY AS 1 - 2 - 3!

1 SIMKAR Is a Primary Manufacturer.

From forming its own metal to post painting and assembly, SIMKAR manufactures in a state-of-the-art facility in Philadelphia, Pennsylvania. All SIMKAR products meet U.L. listing requirements.

2 SIMKAR Can Modify Products Based on Your Needs...and Timing.

Owing to SIMKAR's in-house engineering staff and designers, products can be modified according to your needs and then manufactured at our facility. This allows fast turnaround time, as well as live prototypes made through the use of CAD/CNC. The eventual "hard copies" are perfectly formed fixtures, ready for shipment.

SIMKAR's state of the art painting capabilities allow for post painted finishes on many products to fit your needs. Post painted colors of white, yellow, silver, black, blue, and red are available at no upcharge from our usual cost for post painted white. Please consult factory for custom color matches and other fixtures. Additional charges may apply.



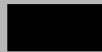
WHITE



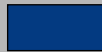
YELLOW



SILVER



BLACK



BLUE



RED

3 SIMKAR Is Committed to On-Time and Complete Delivery.

When it all comes down to getting the order out, SIMKAR is second to none. Through the use of distribution centers across the country and its own fleet of trucks, SIMKAR is able to get you all the products you want — when you want them.

Read more about us at WWW.SIMKAR.COM.

We built our website for speed and ease of navigation. The SIMKAR website features product information on all of our key products and an up-to-date listing of quick ship products — products that can be shipped within 24 hours — and one of the most advanced computerized lighting layout programs in the industry, SIMKAR Simply Lighting. But that's not all, the SIMKAR website has breaking stories about upcoming tradeshows and new product launches, as well as contact information.



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