

The Lightech Range



- Lightech offers a range of industrial and commercial light fittings.
- SABS approved.
- Weather proof fittings - IP65 rating.
- Floodlights and bulkheads are IP55 and IP65 rated.
- Standard specification : SANS 60598-2-1
- Sizes and dimensions may vary.
- Product guarantee only valid if installed by qualified electrician.



General Information

Lightech's range of luminaires include a top quality selection of products suitable for both commercial and industrial applications.

Backed by years of knowledge and expertise, products in this catalogue have been selected for their stylish appearance, rugged design as well as practical application and cost effective quality.

Benefits:

- Lightech offers a range of industrial and commercial light fittings.
- SABS Approved.
- Weather proof fittings – IP65 rating.
- Floodlights and bulkheads are IP55/65 rated.
- Standard specification : SANS 60598-2-3.
- Title : Luminaires.

Please note that:

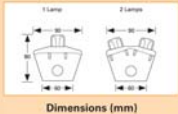
- Masses shown are in kilograms and are an estimate intended for general guidance.
- All dimensions are in millimeters.
- All the luminaires described in this catalogue are supplied without lamps.
- The information contained in this catalogue is given in all good faith, but LIGHTECH shall not be held liable for any inaccuracies or changed data. Furthermore, due to ongoing product improvement programmes, LIGHTECH reserves the right to change specifications such as dimensions, mass, design etc., without prior notice.
- Copies of the National Calibration Society certified photometric data sheets referring to many of the luminaires illustrated within this catalogue can be made available on request.
- Light distribution curves and technical information relating to floodlights are available on request.
- All LIGHTECH products are manufactured according to SABS safety specifications.
- T5 fittings available on order.
- Full range of Ballasts (electromagnetic and electronic) and chokes as well as dimmable ECG'S.
- All project lighting and T-bays/megabays available on specification.

Surface Fluorescent

V Shaped Open Channel

An efficient yet low cost channel type luminaires available for use with bi-pin fluorescent lamps. The width of this channel's base is sufficient to cover the beza box.

Body: Formed sheet steel finished with white epoxy powder paint.
Lampholders: Twist/Rotolock.
Ballast: Switch start or electronic.
Options: Clip-on industrial reflector (wings), special combinations/configurations.



ER Channel - V Shape Open Channel

Product Code	Reference	Length mm	Lamp Watt	Mass kg
9716/V	ER120V	600	1 x 18	1.3
9717/V	ER220V	600	2 x 18	1.4
9720/V	ER140V	1220	1 x 36	1.9
9721/V	ER240V	1220	2 x 36	2.5
9722/V	ER165V	1520	1 x 58	2.6
9723/V	ER265V	1520	2 x 58	3.6



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continued ...

Square Open Channel

This product is ideal for use in indoor areas such as shops, stores and entertainment areas.

Body: Powder coated, mild steel housing.
Lampholders: Twistlock/Rotolock for easy lamp replacement.

ER Channel - Square Open Channel

Product Code	Reference	Length mm	Lamp Watt	Mass kg
ER120	ER120	600	1 x 18	1.5
ER220	ER220	600	2 x 18	1.5
ER140	ER140	1220	1 x 36	2.45
ER240	ER240	1220	2 x 36	3.0
ER165	ER165	1520	1 x 58	3.2
ER265/N	ER265	1520	2 x 58	3.8
ER130	ER130	920	1 X 30	2.1
ER230	ER230	920	2 X 30	2.3
ER240/N	ER240	1220	2 x 36	3.0

Open Channel - Wide and Narrow Body Rotolock

A cross braced range for rigidity, this body is manufactured from cold rolled steel and hot dipped zinc phosphated luminaires using rota-lock positive location lampholders. DPW (Department of Public Works), Provincial and SABs authority approved.

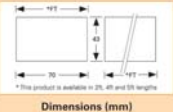
Body: Formed sheet steel finished with white epoxy powder paint.
Lampholders: Rotolock.
Ballast: SABs switch start or electronic.
Conversion: Replacing the bodycover with a one-piece metal reflector allows conversion to an industrial luminaire.
Options: One-piece industrial reflector, wireguards or emergency options.
Finishings: Baked high gloss white epoxy polyester powder coat.

LT Channel - Narrow Body SABs Rotolock

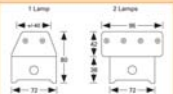
Product Code	Reference	Length mm	Lamp Watt	Mass kg
9729	NS140	1278	1 x 36	3.2
9730	NS240	1278	2 X 36	3.8
9731	NS165	1579	1 X 58	3.9
9732	NS265	1579	2 X 58	4.8

LT Channel - Wide Body SABs Rotolock

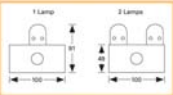
Product Code	Reference	Length mm	Lamp Watt	Mass kg
9725	LT140	1278	1 x 36	2.0
9726	LT240	1278	2 x 36	3.1
9727	LT165	1579	1 x 58	3.2
9728	LT265	1579	2 x 58	4.0



Dimensions (mm)



Dimensions (mm)



Dimensions (mm)

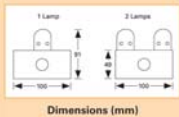


Surface Fluorescent continued ...

Open Channel - Wide Body Telescopic

A range of premium quality, general purpose open lamp luminaires using telescopic bi-pin lamp holders. DPW (Depth of Public Works) and Provincial authority approved.

- Body:** Formed sheet steel finished with white epoxy powder paint.
Lampholders: Telescopic for easier lamp replacement.
Ballast: SABS switch start or electronic.
Conversion: Replacing the body cover with a one-piece reflector allows conversion to an industrial luminaire.
Options: One-piece industrial reflector.



LTP Channel - Wide Body Telescopic

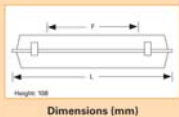
Product Code	Reference	Length mm	Lamp Watt	Mass kg
9735	LTP140	1270	1 x 36	3.0
9736	LTP240	1270	2 x 36	3.6
9737	LTP165	1570	1 x 58	4.2
9738	LTP265	1570	2 x 58	5.0
9709	LTP275	2430	2 x 75	6.5

Corrosion Resistant

Dust Proof / Corrosion Resistant

A totally enclosed high impact corrosion resistant fluorescent luminaire, which gives protection against weather, dust, moisture laden and corrosive atmospheres. IP65 heat resistant luminaire. Ideal for high dust, moisture and corrosive vapours environments.

- Body:** UV stabilised injection moulded polycarbonate or glass reinforced polyester fibre glass.
Ballast: Switch start or electronic.
Diffuser: One-piece impact resistant acrylic/polycarbonate with internal prisms and a smooth outer surface.
Latches: Injection moulded thermal plastic.



VWR Channel - Dustproof Fittings

Product Code	Reference	Length mm	Lamp Watt	Mass kg
9830	WR120	700	1 x 18	1.7
9831	WR220	700	2 x 18	2.0
9832	WR140	1310	1 x 36	2.1
9833	WR240	1310	2 x 36	3.5
9834	WR165	1610	1 x 58	3.2
9835	WR265	1610	2 x 58	5.5

Surface Decorative

LSD

This unit features an acrylic diffuser with conical light control prisms.

Body:	Formed sheet steel finished with white epoxy polyester powder coated.
Lampholders:	Rotolock for easy lamp replacement or twistlock.
Diffuser:	Acrylic with conical light control prisms.
Ballast:	SABS approved switch start control gear or electronic control gear.
Finishing:	High gloss, white epoxy Polyester paint.
End Caps:	Fixed die formed sheet metal.

Surface Decorative Single

Product Code	Reference	Length mm	Lamp Watt	Mass kg
9810	LSD120	654	1 x 18	1.6
9811	LSD140	1255	1 x 36	3.3
9812	LSD165	1555	1 x 58	4.2

Double Econo Narrow Body

Product Code	Reference	Length mm	Lamp Watt	Mass kg
9813/E	LSD220-ECONO	654	2 x 18	2.5
9814/E	LSD240-ECONO	1255	2 x 36	4.3
9815/E	LSD265-ECONO	1555	2 x 58	5.3

Double Wide Body Decorative

Product Code	Reference	Length mm	Lamp Watt	Mass kg
9813	LSD220	619	2 x 18	2.7
9814	LSD240	1227	2 x 36	4.5
9815	LSD265	1528	2 x 58	5.5

Recessed Fluorescent

Recessed Fluorescent Lay in Prismatic

A low cost, simple to install, lay-in type modular luminaire designed for use in exposed T suspended ceilings.

Sizes to fit ceiling modules: Variable sizes.

Body:	Formed sheet steel.
Diffuser:	Lay-in clear acrylic with conical prisms.
Ballast:	Switch start or electronic control gear SABS approved.
Maintenance:	"Lift and shift" action allows easy removal of diffuser for access to lamps.
Overall height:	90

LTF Recessed Modular - Lay in Prismatic

Product Code	Reference	Length mm	Lamp Watt	Mass kg
9850+60	LTF320 & DIFF LTF320	600 x 600	3 x 18	5.4
9851+60	LTF420 & DIFF LTF420	600 x 600	4 x 18	7.2
9852+61	LTF340 & DIFF LTF340	1200 x 600	3 x 36	9.0
9853+61	LTF440 & DIFF LTF440	1200 x 600	4 x 36	9.8

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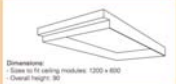


Recessed Fluorescent continued ...

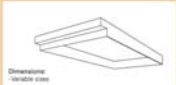
Recessed Fluorescent - Lay in Low Brightness Single & Double Parabolic

This single parabolic louvre unit is made of 99.98% pure aluminium.

- Body:** Formed sheet steel.
Ballast: SABs approved switch start control gear or electronic control gear.
Louvre: 99.98% pure aluminium cross blades transversely mounted. Lay in louvre with 9 cross blades and no scalloped ends. Suitable for laying into body.
Options: Emergency options & plug and cord set options.



Dimensions (mm)



Dimensions (mm)



Dimensions (mm)



Dimensions (mm)

LTF Recessed Modular - Lay in Double Parabolic

Product Code	Reference	Length mm	Lamp Watt	Mass kg
LR0009	REC DBL 440	1200 x 600	4 x 36	9.8

Louvre : Clip-in louvre with 9 cross blades, scalloped ends and torsion wishbone spring clips. Allowing swing down for easy lamp replacement.

LTF Recessed Modular - Lay in Single Low Brightness

Product Code	Reference	Length mm	Lamp Watt	Mass kg
9850+81	LTB320	600	3 x 18	5.4
9851+83	LTB420	600	4 x 18	7.2
9852+82	LTB340	1200	3 x 36	7.29
9853+84	LTB440	1200	4 x 36	9.8
	LTB365	1500	3 x 58	10.3

Surface Decorative Fluorescent - Bevelled Edges

This unit features bevelled edge sides and ends for aesthetically pleasing modern appearance.

- Body:** Formed sheet steel. Unusually shallow with low brightness.
Lamp holders: Rotolock for easy lamp replacement.
Control gear: SABs approved switch start control gear or electronic control gear.
Finishing: High gloss, white epoxy polyester coat.
Louvre: Secured to body of the luminaire with four double torsion (wish bone) springs.

Surface Decorative Fluorescent - Box Type

Shallow surface mounting luminaire fitted with low brightness louvres or acrylic lay-in diffuser for effective light and glare control.

- Body:** Formed sheet steel.
Lamp holders: Rotolock for easy lamp replacement.
Diffuser: Die formed anodised high grade aluminium low brightness louvres.
Ballast: SABs approved switch start control gear or electronic control gear.
Finishing: White epoxy powder paint.
End caps: Fixed, die formed sheet metal.

Beveled Edges & Box Type

Product Code	Reference	Length mm	Lamp Watt	Mass kg
9280	LTL240 LBR	1242	2 x 36	6.0
9821	LTL265 LBR	1542	2 x 58	6.5
LR0016	Surface Box LBR340	1242	3 x 36	8.0
LR0017	Surface Box Prismatic 340	1242	3 x 36	8.0
LR0018	Surface Box LBR440	1242	4 x 36	9.0
LR0024	Surface Box Prismatic 440	1242	4 x 36	9.0

The Lightech Range

HiBay Luminaries

A range efficient, versatile and economical luminaries for medium to high-bay installations.

- Lamp:

Use only coated elliptical Mercury Vapour or High Pressure Sodium or metal halide or CFL.
- Control gear:

SABS approved control gear.
- Finishing:

Baked, high gloss, grey epoxy polyester powder coated. Manufactured from cold, rolled steel. Hot dip zinc phosphated. Brightened and anodized reflector spun from high purity aluminium.

HiBay			
Product Code	Lamp Watt	Lamp Type	Mass kg
9895	250	MW	8.5
9896	250	HPS/T	9.7
9897	250	MH	9.5
9898	400	MV	9.7
9899	400	HPS	9.7
9902	400	MH	9.7
9894 (Incandescent highbay & reflector)			

Reflector Specifications	
Product Code	Product Description
9905	Standard Large Reflector
9906	Jumbo Reflector
9907	Enclosed Reflector
9908	Acrylic Reflector

Low Bay Luminaries

Low Bay

A range H.I.D. luminaries with a wide "Batwing" distribution, suitable in applications with low to medium mounting heights.

- Control gear:

SABS approved control gear is integrally mounted and easily accessed in separate compartments.
- Reflector:

High purity aluminium reflector designed for maximum efficiency and wide distribution.

Lamp Option Specifications					
Mercury Vapor		High Pressure Sodium		Metal Halide	
Type	Lamp	Type	Lamp	Type	Lamp
250	250	250	250	250	250
400	400	400	400	400	400



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Flood Lights

Mini-Flood

An attractive, economical yet efficient low wattage general purpose floodlight designed for use in smaller areas and for security lighting.

Ingress protection: IP65

Body: One piece glass reinforced polyester or UV stabilised high impact polycarbonate.

Lamp: Elliptical coated Mercury Vapour or High Pressure Sodium.

Control gear: Mounted internally.

Cable entry: 20mm Ø cable gland.

Mounting: Direct on wall or via galvanised steel stirrup.

Front glass: Armoured, framed, silicone gasketed and hinged. Secured by four captive stainless steel swivel bolts.

Reflector: Anodised dimpled aluminum.

Mini-Flood 70 w HPS, 125 w MV - Fibre Glass

Product Code	Lamp Watt	Mass kg
9925	70 HPS	4.1
9926	125 MV	4.2

All Purpose - Polycarbonate

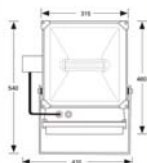
Product Code	Lamp Watt	Mass kg
9915	70HPS	4.1
9916	125MV	4.2

All Purpose - Die Cast Aluminium

Product Code	Lamp Watt	Mass kg
9917	250MV	9.0
9918	250HPS	9.0
9919	400MV	9.0
9920	400HPS	9.0
9993	250HPS	9.0
9994	400MH	9.0

Energy Saving Floodlights - Fibre Glass

Product Code	Lamp Watt	Mass kg
9995	2 x 18	4.0
9996	2 x 26	4.5
LR0067	85CFL	4.0



Dimensions (mm)



Dimensions (mm)



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The Lightech Range

Flood Lights

Maxi-Flood

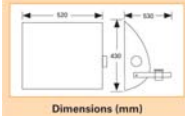
A high-performance floodlight for large outdoor work areas, for security and for sports fields at club level. Available with wide beam reflector.

Ingress protection: IP65

Body:	One piece glass reinforced polyester.
Lamp:	Clear tubular High Pressure Sodium or Metal Halide.
Control gear:	Integral but remote in a glass reinforced polyester housing.
Cable entry:	20mm Ø compression gland.
Mounting:	Heavy gauge galvanised wall or pole mounting stirrup.
Reflector:	Specular anodised aluminum.
Front glass:	Armoured, framed, silicone gasketed and hinged. Secured by four captive stainless steel swivel bolts.

Maxi-Flood 400 w SON/T, MH/T

Product Code	Length mm	Mass kg
9929	400W HPS Wide Beam	21.5
LR0011	1000W HPS Wide Beam - alternate die cast aluminium	33.0



Electronic Dimmable Transformer

- Silent.
- Slow deterioration.
- Leading and trailing edge.
- One time quick start – flicker free.
- High power factor, small harmonic content.
- Low temperature rise of lamp shell (<60°C).
- Short circuit, thermal and overload protected.
- Long service life and outstanding performance.
- Able to start and work stably in a low temperature (-10°C) environment.

Industrial LVT Transformer

Product Code	Input Volts (V)	Line Current (A)	Input Power (w)	Input Power ANS (w)	Power Factor	Min f/C Start Temp	Dimensions
9977	220-240	0.27	1 x 50	60	0.98	0/ - 18	112 x 112
			2 x 30				
			3 x 20				

Prison Fitting

Body:	Stainless steel.
Diffuser:	High impact Poly Carbonate.
Control gear:	2 x PL55 electronic control gear.
Cover:	Tamperproof fixing screws.

Prison Fitting

Product Code	Length mm	Lamp Watt	Mass kg
9904	90	2 x 55PL	9.0



Bulkheads Luminaries

Euroclip

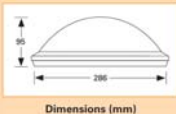
An extremely versatile euroclip decorative range of bulkhead luminaries that are aesthetically pleasing and practical. Circular decorative weather tight bulkhead for indoor and outdoor applications.

Polycarbonate visor.

Ingress protection: IP65 (neoprene gasket).

Body: Injection moulded in U.V. stabilised polycarbonate.

Cable entry: All models suitable for back cable entry.



SB Square Industrial or Commercial - Euroclip

Product Code	Lenght mm	Lamp Watt	Mass kg
LR0006	286	100W ES	1.0
LR0008	286	2XPL9	1.0
LR0007	286	100W BC	1.0

SB Square and RB Round Bulkheads

SB square and RB Round are low profile bulkheads of robust construction, using either incandescent or compact fluorescent lamps. They are ideal for security lighting or in areas frequented by the public.

Ingress protection: IP55.

Body: Injection moulded glass reinforced nylon.

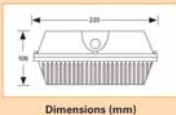
Control gear: Lamps have integral starters.

Mounting: 20mm ø entry at each end. Back entry via conduit box knock-outs.

Diffuser Gasketed, impact resistant polycarbonate with internal prism and a smooth outer surface.

SB Square

Product Code	Width mm	Lamp Watt	Mass kg
9935	220	1 x 100W CFL	1.5
9941	220	1 x 16W 2D	2.0
9938	220	2 x 9 PL	2.0



RB Round

Product Code	Lenght mm	Lamp Watt	Mass kg
9936	220	1 x 100W CFL	1.5
9942	220	1 x 16W 2D	2.0
9962	220	2 x 9 PL	2.0



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The Lightech Range

Bulkheads Luminaries continued ...

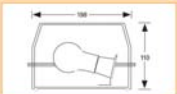
Rectangular Bulkhead

Rectangular, weather tight bulkheads suitable for indoor or outdoor applications and recommended for use with BC incandescent / CFL lamps to a maximum of 60W.

Lamp holders: BC/CFL
Body: Ultra violet, stabilised, injection moulded polycarbonate.
Diffuser: Fixed to the box with two small self-threading screws.
Gasket: Finely engineered tongue and groove fit between body and visor.
Visor: Ultra violet, stabilised, injection moulded polycarbonate with linear prismatic. Internal surface and smooth exterior. Visor can withstand continuous temperatures of 115°C.

RB Round Industrial or Commercial - Rectangular Bulkhead

Product Code	Length mm	Lamp Watt	Mass kg
DMN60	110	60 BC/CFL	1.2



Dimensions (mm)



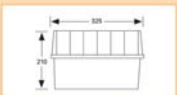
IB Industrial HID Bulkhead

A versatile high quality, dust and moisture resistant industrial luminaire designed for indoor or outdoor applications.

Ingress protection: IP55
Body: Glass reinforced polyester or UV stabilised polycarbonate.
Lamp: Elliptical HPS, Mercury Vapour or energy saving.
Diffuser: Gasketed high impact polycarbonate with internal prisms and a smooth outer surface.
Control gear: SABS Approved. Mounted internally.
Cable entry: 200mm Ø knock-outs at each end.
Mounting: Back entry conduit box knock-outs

IB Industrial HID

Product Code	Reference	Length mm	Lamp Watt	Mass kg
9946 (IB-70-HPS)	IB 70 HPS	230	1 x 70 HPS	4.9
9945 (IB-80-MV)	IB 80 MV	230	1 x 80 MV	4.9
9947 (IB-125-MV)	IB 125 MV	230	1 x 125 MV	4.9
9948 (IB-160-MBT)	IB 160 MBT	230	1 X 160 MBT	3.2
9964 (IB)	IB	230	2 x 26 CFL	4.7



Dimensions (mm)

Bulkheads Luminaries continued ...

Wall Pack Bulkhead

A wall mounting, dust and moisture proof luminaire giving a light distribution concentrated downwards and sideways for the illumination of medium-sized areas. optically correct wall fitting, ideal for industrial applications.

Ingress protection: IP55

Body: Polycarbonate

Lamp: Elliptical HPS, MV or Mercury Vapour.

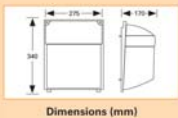
Control gear: Mounted internally.

Cable entry: 200mm Ø knock-outs at each end.

Mounting: Back entry conduit box knock-outs.

Reflector: Asymmetric anodised specular aluminium

Bowl: Gasketed high impact polycarbonate with internal prisms and a smooth outer surface.



WP Directional HID - Wall Pack Bulkhead

Product Code	Length mm	Lamp Watt	Mass kg
9950	318	160 MBT	3.0
9951	318	70 HPS	4.5
9952	318	125 MV	4.5

SFB Square Flatback Bulkhead

SFB square are low profile bulkheads of robust construction using either incandescent or compact fluorescent lamps. They are ideal for security lighting or in areas frequented by the public.

Ingress protection: IP55

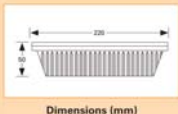
Body: Formed sheet steel, finished with white epoxy powder paint.

Diffuser: Gasketed, impact resistant polycarbonate with internal prisms and a smooth outer surface.

Control gear: SABS approved. Lamps have integral starters.

Cable entry: 200mm Ø knock-outs at each end.

Mounting: Back entry via conduit box knock-outs



SFB Square Industrial or Commercial

Product Code	Depth mm	Lamp Watt	Mass kg
9943	50	2D 16W	2.0



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Bulkheads Luminaries continued ...

RFB Round Round Flatback Bulkhead

RFB round are low profile bulkheads of robust construction using either incandescent or compact fluorescent lamps. They are ideal for security lighting or in areas frequented by the public.

Ingress protection: IP55

Body:	Formed sheet steel, finished with white epoxy powder paint.
Diffuser:	Gasketed, impact resistant polycarbonate with internal prisms and a smooth outer surface.
Control gear:	SABS approved. Lamps have integral starters.
Cable entry:	20mm ø knock-out at each end.
Mounting:	Back entry via conduit box knock-outs

RFB Round Industrial or Commercial

Product Code	Length mm	Lamp Watt	Mass kg
9944	50	2D 16W	2.0

Down Lighters

Down Lighters

A range of compact recessed decorative down lighters with vertically mounted lamps suitable for domestic or commercial applications.

Control gear:	SABS approved switch start control gear or electronic control gear.
Cradle:	Cold, rolled steel. Hot dip phosphate.
Finishing:	Baked, high gloss white epoxy polyester coated.
Reflector:	Spun aluminium, faceted and sand blasted. Anodised for maximum light control and glare reduction.

Recessed Down Lighters

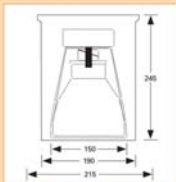
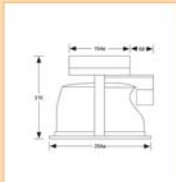
Lamp Options		Options
160mm cut out / 174i or 256	1 x 18W PL: 2 x 18 PL	Emergency
100W inc	2 x 26W : 1 x 26 PL	Enclosed
1 x 9W PL	70W : MH	Electronic Ballast
2 x 9W PL	150W : MH	Remote control gear

Surface Mounted Compact Down Lighters

Lamp Options	Options
100W inc : 2 x 9W PL	Emergency
1 x 18 : 2 x 18W PL	Electronic Ballast
1 x 26: 2 x 26W PL	Enclosed

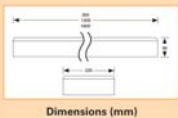


Dimensions (mm)

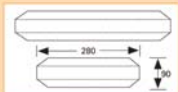


Dimensions (mm)





Dimensions (mm)



Dimensions (mm)

Fluorescent Tamper Proof Luminaries

Tamper Proof

A vandal proof fluorescent luminaire with tamper resistant screws and night light option.

Ingress protection: IP66 - Prior to drilling mounting holes.

Body: Manufactured from cold, rolled sheet metal of minimum thickness 0.8mm gauge 80mm deep. Sheet steel with end caps welded into place. Rounded corners eliminate sharp edges. Eight vandal resistant round head screws secures frame. **Cable entry:** 20mm rear entry.

Lamp: 36W or 58W. SABS 1464 approved.

Control gear: SABS approved switch start control gear or electronic control gear. Quick disconnect tray for easy of maintenance.

Gear tray: 0.8mm gauge, cold rolled sheet metal formed for optimum light distribution.

Lens: 4mm thick, fl at, polycarbonate clear lens for extremely high impact resistance.

Tamper Proof

Lamp Watt	Night Light Watt	Application
2 x 36	-	General area light
2 x 36	1 x 9	Cell light
1 x 36	-	General area light
1 x 36	1 x 9	Cell light
2 x 11	-	General bulkhead
2 x 58	-	General area light
2 x 58	1 x 9	Cell light
1 x 58	1 x 9	Cell light

Exit and Emergency

Backlit Illuminated Signs

A range of backlit illuminated signs. Surface mounted in a bevelled edge body. Robust yet elegant. Ideal for illuminated signage in any location.

Body: Manufactured from cold rolled steel, hot dip phosphated.

Diffuser: Manufactured from 3mm opal acrylic lens in an extruded anodised aluminium frame fixed to a body by means of 4 double wishbone springs.

Ballast: SABS approved switch start control gear or electronic control gear.

Finishing: High gloss, white epoxy polyester coat.

Self testing emergency control unit

These emergency lighting control units incorporate a self testing facility, which both exercises the battery as well as establish the lamp condition on a regular basis. Automatic tests are conducted on a weekly basis with full functional tests every month. Standard : 1 hour, 20%

- Satisfies SABS 1464 Part 22 standards.
- Small physical size for use in small confines.
- Satisfies SABS 598-1 and SABS 1464 Part 22.
- Battery pack : 5 x 4hr – all lamps. 5 x 2hr – THX 3hr.
- Single unit construction for reduced wiring requirements.
- Built in computer established age of lamp, sound lamp connections and battery status.
- Prohibits deep discharging of batteries.
- Lamp: - In a multi-lamp fitting only one lamp is affected during tests.
- Two versions cover all four pin fluorescent lamps, thereby simplifying stock.
- Small indicating lamp reports battery status with intermittent flashes.
- Emergency power: - TLX 1 hour provides one hour of emergency lighting satisfying most standard escape route requirements.



Lightech reserves the right to change specifications, such as dimensions, mass, design; etc. without prior notice

The Lightech Range

Exit and Emergency continued ...

- TLX 3 hour provides three hours of emergency lighting satisfying escape route requirements for high rise buildings and underground parking areas.

- TLX 1/e provides one hour emergency lighting and can be used with any electronic ballast or lamp dimension system.

STANDARD: 1 hour, 20%

Technical Information

Lamp Operating Data

The information provided in this section is confined to the lamps used in the luminaires illustrated. It is intended to aid production selection by listing the light source performance characteristics.

Lamps		Lamp Life	Watt		Line Current ² (Amps)	
Type	Lumens ¹	Hours	Lamp	Circuit	Starting	Running
Fluorescent - tubular 26mm Ø						
18W	1150	7500	18	28	-	0.15
36W	2850	10000	36	47	-	0.22
58W	4650	10000	58	71	-	0.34
Fluorescent - tubular TLX single pin, for Type Exe Explosion proof luminaires						
20W	1000	500	20	30	-	0.13
40W	2500	7500	40	50	-	0.25
65W	4800	7500	65	78	-	0.38
Fluorescent - compact						
PL9	600	7500	9	13.5	-	0.07
2D16	1050	5000	15.5	21.5	-	0.11
Mercury Vapour - coated elliptical						
80 MVE	3800	12000	80	96	0.90	0.45
125 MVE	6300	12000	125	144	1.35	0.68
250 MVE	13000	12000	250	275	2.60	1.35
400MVE	22000	12000	400	430	4.20	2.10
Mercury Vapour Blended - coated elliptical						
160MB	3100	12000	160	160	-	-
High Pressure Sodium - coated elliptical						
70 HPSE	5600	12000	70	88	0.72	0.45
250 HPSE	25000	12000	250	280	2.10	1.42
400 HPSE	47000	12000	400	440	3.80	2.20
High Pressure Sodium - clear tubular						
150 HPST	14500	12000	150	184	1.30	0.88
250 HPST	27000	12000	250	280	2.10	1.42
400 HPST	48000	12000	400	440	3.80	2.20
Metal Halide - coated elliptical						
400 MHE	24000	8000	400	440	3.80	2.20
Metal Halide - clear tubular						
250 MHT	19000	8000	250	280	3.00	1.35
400 MH	25000	8000	400	440	3.80	2.20
1000 MHT	80000	4000	1000	1100	9.60	5.20
Incandescent						
100W ES	1230	1000	100	-	-	-

NOTE: 1) After 100 burning. 2) Based on a power factor of 0.85 or better.

Technical Information

Ingress Protection - I.P Ratings

A major parameter in the assessment of safety considerations is the degree of protection offered against the ingress of solid bodies and liquids. Where luminaires are used in dirty or wet condition, the resistance to ingress contributes in a major way to their reliability in terms of safety and explosion protection.

Definition of Ingress Protection
(Based on SABS 1222)

First Digit Numerical	Degree of protection (Foreign bodies)	Second Digit Numerical	Degree of protection (Liquids)
0	No protection.	0	No protection.
1	Protected against the ingress of solid objects greater than 50mm in diameter.	1	Protected against dripping water.
2	Protected against the ingress of solid objects greater than 12mm in diameter.	2	Protected against dripping water at an angle of 15° from the vertical.
3	Protected against the ingress of solid objects greater than 2.5mm in diameter.	3	3 Protected against spray falling at an angle of 60° from the vertical.
4	Protected against the ingress of solid objects greater than 1.0mm in diameter.	4	Protected against water splashed from any direction.
5	Protected against the ingress of dust in an amount sufficient to interfere with the satisfactory operation of the equipment enclosed	5	Protected against water projected by a nozzle against the enclosure from any direction.
6	Dust-tight. Complete protection against the ingress of dust.	6	6 Protected from heavy seas or water projected in powerful jets.
-	-	7	Protected against immersion in water under defined conditions of time and pressure.
-	-	8	Protected in continuous immersion in water.

Example: IP54: An enclosure protected against the ingress of dust in sufficient quantities to interfere with the satisfactory operation of the equipment and against splashing water.

Protection Symbols

IP23	Protection against rain.
IP43	Protection against rain.
IP44	Protection against splashing water.
IP50	Protection against dust.
IP53	Protection against dust and rain.
IP54	Protection against dust and splashing water.
IP55	Protection against dust and waterjets.
IP65	Totally dustproof and protected against waterjets.
IP68	Totally dustproof and protected against submersion in water under specified pressure.



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Technical Information

Chemical Resistance

The chemical resistance table gives a general indication of the degree of resistance to the chemical attack of the most important luminaire materials and is applicable to ambient temperatures of approximately 60 °C.

• = Resistant

* = Resistant within limits

- = Non-resistant

Chemical	Aluminium (DB, PL, OB Bulkheads)	Polyster (Floodlights Streetlight)	Acrylic (Diffusers & Bowls)	Polycarbonate (Diffuser Bowls)
Acetone	•	-	-	-
Aliphatic hydrocarbons	•	*	*	•
Alcohol up to 30%	*	•	•	•
Alcohol concentrated	•	*	-	-
Ammonia 28%	•	-	•	-
Accumulator acid	*	•	•	•
Aniline	•	-	-	-
Aromatic hydrocarbons	•	*	-	-
Ether	•	*	-	-
Ethyl acetate (ester)	•	-	-	-
Petrol	•	•	•	•
Benzene	*	-	-	-
Beer	•	•	•	•
Blood	•	•	•	•
Hydrobromic acid	-	-	-	-
Chloroform	•	-	-	-
Chlorophenol	•	-	-	-
Diesel oil, crude oil	•	•	•	*
Dioxane	*	•	-	-
Acetic acid up to 5%	*	•	-	•
Acetic acid up to 30%	-	•	-	*
Glycerine	•	•	•	*
Glycol	•	•	•	•
Glyssantin	•	•	•	•
Carbon dioxide	•	•	•	•
Carbon monoxide	•	•	•	•
Milk of lime	-	•	•	*
Common salt solution	•	•	•	•
Ketones	•	-	-	-
Lysol	•	-	-	-
Sea-water	*	•	•	•
Methylene chloride	*	-	-	-
Methanol	•	-	-	-
Metal salts and their aqueous solutions	-	•	•	•
Caustic soda solution 2%	-	*	•	•
Caustic soda solution 10%	-	-	•	-
Petroleum ether	•	•	•	*
Pyridine	*	-	-	-
Phenol	*	-	-	-
Crude oil	•	•	•	•
Nitric acid up to 10%-	•	•	•	-
Nitric acid 10 to 20%-	*	**	**	-
Nitric acid 20% +	*	-	-	-
Hydrochloric acid up to 20%	-	•	•	•
Hydrochloric acid 20% +	*	•	•	•
Sulphuric acid up to 50%	-	•	•	•
Sulphuric acid up to 70%	-	•	*	*
Sulphuric acid 70% +	-	-	-	-
Sulphurous acid up to 5%	*	*	*	-
Sulphuretted hydrogen	•	•	•	•
Soap-suds	•	•	•	•
Soda	-	•	•	•
Synthetic detergents	*	•	•	•
Turpentine	•	•	*	*
Carbon tetrachloride	•	•	-	-
Water up to 70 °C	•	•	•	•
Hydrogen peroxide up to 40%	*	-	-	*
Hydrogen peroxide over 40%	•	-	*	*
Xylene	•	-	-	-

