



VERY LATEST
New LED
Product Ranges

This brochure presents the very latest Thorlux LED product innovations using three different types of LED technology:

- 1 White high power LEDs - ideal where excellent optical control is required - for example see the G4 on page 04.
- 2 Blue LEDs and remote phosphor - ideal for excellent efficiency where precise optical control is less important - for example see the G3 on page 08.
- 3 Medium power LEDs - ideal to create high efficiency, well diffused, low glare solutions - for examples see Sky-Dome, Dot etc. on pages 14 to 25

In the last six months LEDs have developed significantly now exceeding the performance of even the best fluorescent solutions. Volume increases have reduced costs, making them the ideal choice in many more applications. Not all LED solutions are the same so Thorlux has introduced a simple marking code into its literature to identify the key performance characteristics of its LED based luminaires - an example is shown below.

Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/W
80+	4000	60K	P	>85	R	>0.9	63.2

Ra - Indicates colour rendering index (colour quality). A minimum of Ra 80 is recommended for working areas.

°K - The approximate colour temperature of the light source. There will be a band at which the LEDs are chosen from around this target figure. More accurate information, for specialist applications, is available upon request.

L70/B10 - These figures illustrate the target life expectancy of the LED (for example 60K = 60,000 hour life expectancy) which is a combination of light out degradation (L70 = when the light output has reduced to 70% of its initial level) and lamp failure expectation (B10 = when 10% of the LEDs have failed to meet operational expectations).

P/U - Some LED "lamps" comprise a number of LEDs connected in series or in a series/parallel group. If the system is protected (P) then failure of a single LED will not affect others in the group. If the system is unprotected (U) failure of one LED will cause others in the group to extinguish.

% - This figure illustrates the LED driver efficiency.

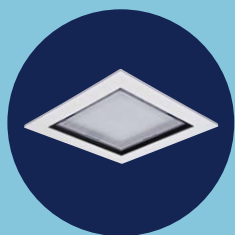
R/Rx - When the LED fails, some luminaires require replacement in their entirety (Rx) some have replaceable LED "lamp" assemblies (R).

PF - Indicates LED driver power factor.

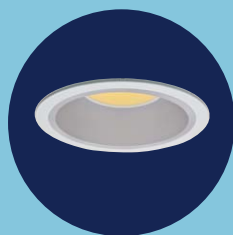
LL/W - Luminaire lumens per watt, the luminaire efficiency including ALL optical and gear losses.

Thorlux designs, manufactures and tests the vast majority of its own LED electronic circuits including the lenses for precise optical control. We carefully consider end of life scenarios, for example, LED failures, solder joint failures and isolated component failures to ensure new designs have on-going system reliability even when individual components fail.

Our 76 year company history, running into thousands of years of combined experience, ensures every aspect of lighting a space is carefully considered - a requirement all the more important as system lifetimes are now expected to reach 50,000 to 100,000 hours or even more!



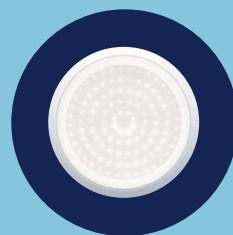
G4
04



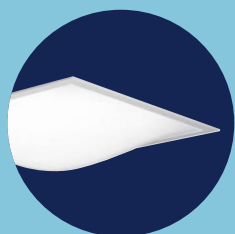
G3
08



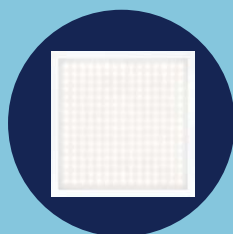
FLUTE
12



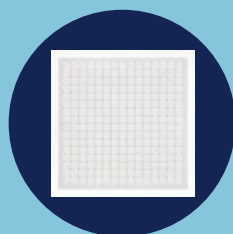
DOT / DOT HALO
14



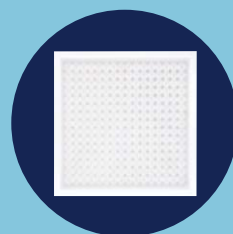
SKY-DOME
18



PLATEAU
22



XL-FIVE DAYLITE
24



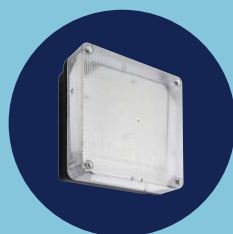
XL-FIVE PRISMATIC
CONTROLLER
25



A-LINE
26



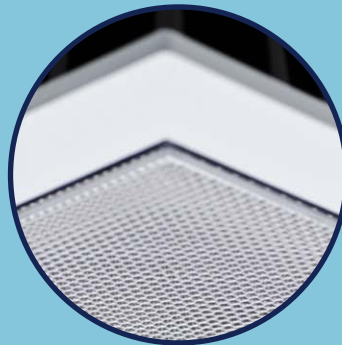
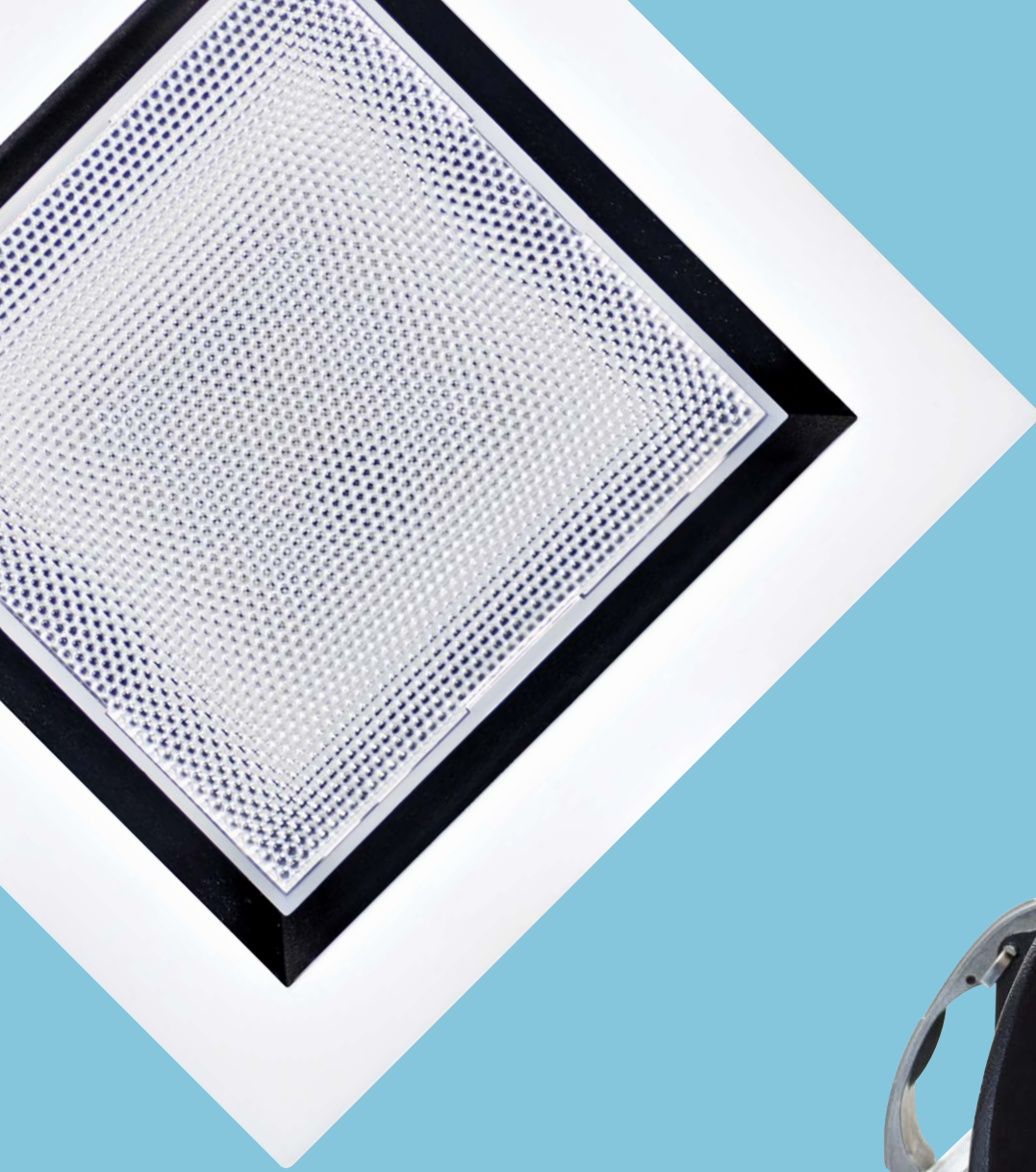
LED BAY
28



PRISMALETTE
29



PRISMALUX &
PASSLIGHT
30 & 31



FEATURES

- High pressure die-cast frame finished full polyester, non-yellowing white
- Die-cast body/heat sink with through airflow for thermal management
- Choice of optics optimised for general area, corridor and low glare (VDT)
- Die-cast sprung suspension arms for rapid installation
- Supplied with two metre lead
- Plug-in remote gear
- Optional reinforcing board with centre cut aperture
- Smart versions with intelligent lighting control
- Emergency, AutoTest and Scanlight AT versions using integral, high power 1.5W LED
- 16W and 32W very high efficiency versions
- 60,000 hour LED life expectancy
- Fitted with 4000K LEDs



IP20 ABOVE CEILING **CE** IP40 BELOW CEILING **CE** TP(a)

LED CHARACTERISTICS

Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/W
80+	4000	60K	P	>85	R	>0.9	63.2



Remote Smart Micro-pod



1 LED Downlighter Power Unit for Emergency, AutoTest and ScanlightAT versions

2 Remote Driver for standard versions



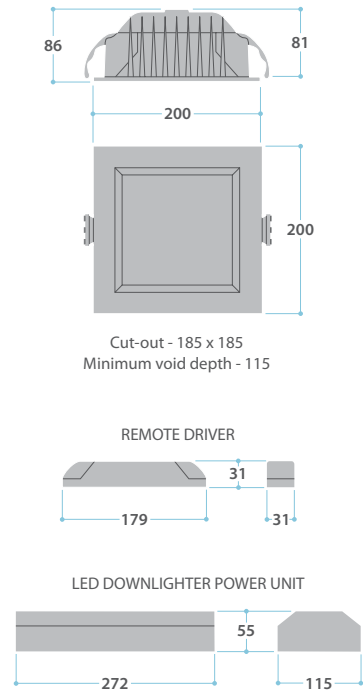
Heat sink body

PERFORMANCE GUIDE

Typical task area illuminance assuming an open area with good reflection factors, 0.80 maintenance factor and a 2.65 metre ceiling height.

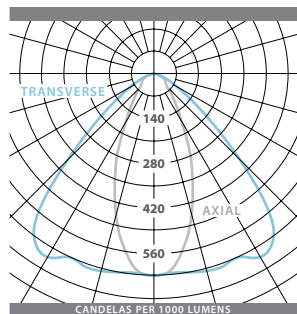
LED	SPACING (Metres)	LUX AVERAGE 70/50/20	LUX AVERAGE 80/60/30
Corridor			
16W	5.4	60	70
	4.2	80	90
32W	5.4	120	140
	4.2	160	180
General Area			
16W	1.8 x 2.4	250	280
	2.4 x 2.4	190	210
	2.4 x 3.0	150	170
	3.0 x 3.0	120	140
32W	1.8 x 2.4	430	500
	2.4 x 2.4	360	400
	2.4 x 3.0	300	330
	3.0 x 3.0	240	270
Low Glare Lens			
16W	1.8 x 2.4	140	160
	2.4 x 2.4	110	120
	2.4 x 3.0	90	100
	3.0 x 3.0	70	80
32W	1.8 x 2.4	280	310
	2.4 x 2.4	210	240
	2.4 x 3.0	170	190
	3.0 x 3.0	140	190

DIMENSIONS



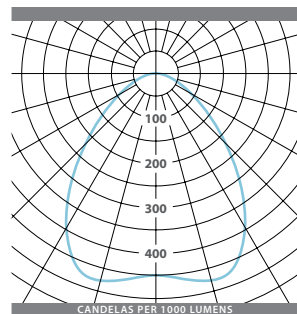
PHOTOMETRIC GUIDE

CORRIDOR



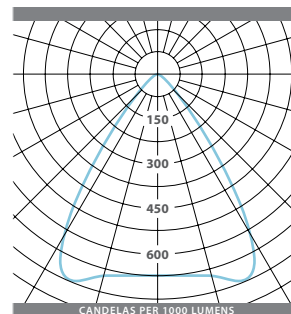
Luminaire Lumen Output:
16W - 1145 lm
32W - 2245 lm

GENERAL AREA



Luminaire Lumen Output:
16W - 1200 lm
32W - 2340 lm

LOW GLARE LENS



Luminaire Lumen Output:
16W - 675 lm
32W - 1320 lm



Plain

PLAIN RANGE

LED	CORRIDOR VERSION	GENERAL AREA VERSION	LOW GLARE VERSION	APPROX. kg	CIRCUIT
Standard Version					
16W	GF 15100	GF 15103	GF 15106	2.4	L-A
32W	GF 15101	GF 15104	GF 15107	2.4	L-A
Smart Version					
32W	GF 15102D	GF 15105D	GF 15108D	2.5	



Halo

HALO RANGE

LED	CORRIDOR VERSION	GENERAL AREA VERSION	LOW GLARE VERSION	APPROX. kg	CIRCUIT
Standard Version					
16W	GF 15109	GF 15112	GF 15115	2.6	L-A
32W	GF 15110	GF 15113	GF 15116	2.6	L-A
Smart Version					
32W	GF 15111D	GF 15114D	GF 15117D	2.7	



IK10 Blue Edge Tinted Polycarbonate tamper and impact resistant

IK10 RANGE

LED	CORRIDOR VERSION	GENERAL AREA VERSION	LOW GLARE VERSION	APPROX. kg	CIRCUIT
Standard Version					
16W	GF 15127	GF 15130	GF 15133	2.6	L-A
32W	GF 15128	GF 15131	GF 15134	2.6	L-A

CIRCUIT - add suffix required (Standard versions only):
L - non-dimming (LED) **A** - dimming (DALI) e.g. **GF 15100L**

EMERGENCY VERSION - Prefix catalogue number with 'EGF' e.g. **EGF 15100L**.

AUTOTEST VERSION - Prefix catalogue number with 'TGF' e.g. **TGF 15100L**.

SCANLIGHT AT VERSION - Prefix catalogue number with 'DGF' e.g. **DGF 15100L**.

Emergency, AutoTest and Scanlight AT versions add 0.3kg to weights listed.

ACCESSORIES

DESCRIPTION	CAT. No.	APPROX. kg
597 x 597mm ceiling reinforcing board (3mm thick plywood with 185 x 185mm central cut-out)	GF 15145	0.55



FEATURES

- High pressure die-cast ring finished full polyester, non-yellowing white
- Extruded aluminium heat sink
- Injection moulded reflector
- Toughened/safety drop glass attachments provide a measure of light on the ceiling
- Fitted with 2 metre lead
- Plug-in remote gear
- Optional reinforcing board with centre cut aperture
- Smart versions with intelligent lighting control
- Emergency, AutoTest and Scanlight AT versions using integral, high power 1.5W LED
- 12W and 24W very high efficiency versions
- 60,000 hour LED life expectancy
- Fitted with 4000K LEDs



IP20 ABOVE CEILING **CE** IP40 BELOW CEILING **CE**

IP65 version

IP20 ABOVE CEILING **CE** IP65 **CE** BELOW CEILING **CE**

LED CHARACTERISTICS

Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/W
80+	4000	60K	P	>85	R	>0.9	76.8

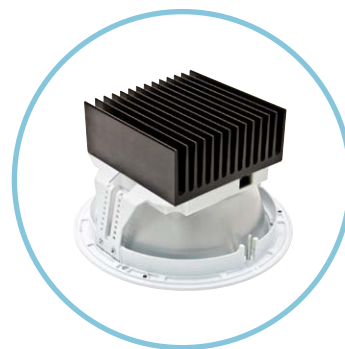


Remote Smart Micro-pod



1 LED Downlighter Power Unit for Emergency, AutoTest and ScanlightAT versions

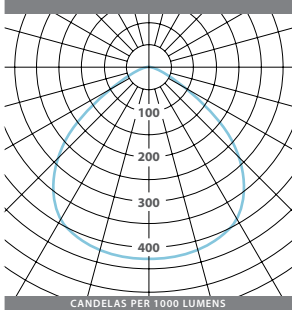
2 Remote Driver for standard versions



Body and heat sink

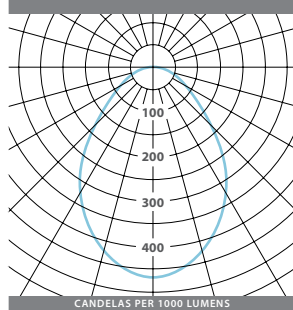
PHOTOMETRIC GUIDE

OPEN



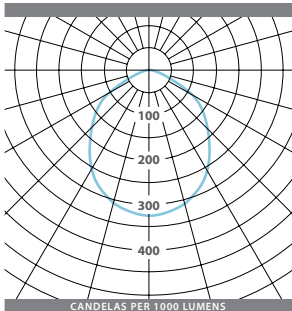
Luminaire Lumen Output:
12W - 1075 lm
24W - 2100 lm

FROSTED OUTER



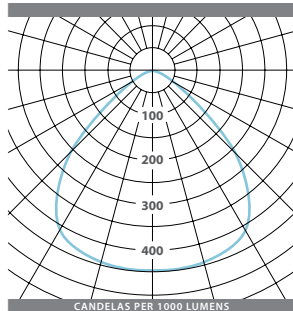
Luminaire Lumen Output:
12W - 925 lm
24W - 1795 lm

FROSTED INNER



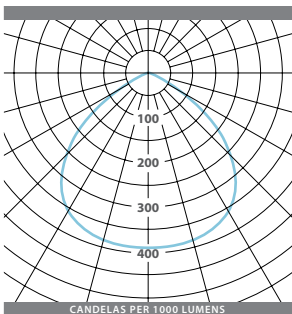
Luminaire Lumen Output:
12W - 850 lm
24W - 1640 lm

HALO



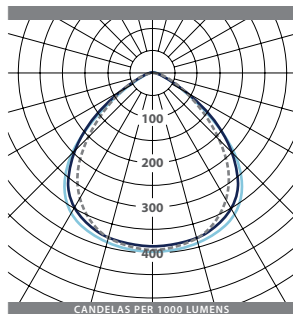
Luminaire Lumen Output:
12W - 1030 lm
24W - 2020 lm

BLUE TINTED



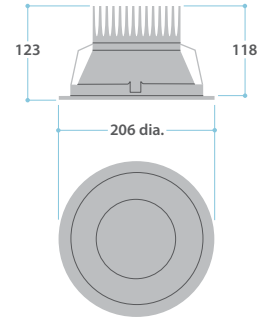
Luminaire Lumen Output:
12W - 960 lm
24W - 1855 lm

IP65

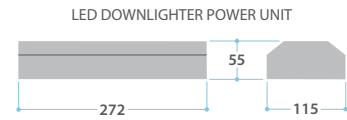
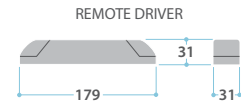


Luminaire Lumen Output:
12W Clear Glass - 950 lm
24W Clear Glass - 1850 lm
12W Frosted Glass - 900 lm
24W Frosted Glass - 1765 lm
12W Polycarbonate - 915 lm
24W Polycarbonate - 1785 lm

DIMENSIONS

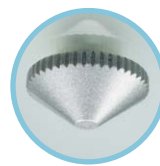


Cut-out - 180 dia.
Minimum void depth - 115

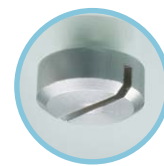


ACCESSORIES

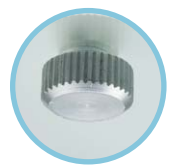
DESCRIPTION	CAT. No.	APPROX. kg
Retro-fit fixing kit (for fitting drop glasses etc. to undrilled bezels)	GT 11643	0.01
Matt chrome cone head screw kit (for drop glass versions)	GT 11866	0.02
Matt chrome slotted head screw kit (for drop glass versions)	GT 11867	0.02
Matt chrome knurled head screw kit (for drop glass versions)	GT 11868	0.02
597 x 597mm ceiling reinforcing board (3mm thick plywood with 185mm diameter central cut-out)	GT 11970	0.55



Cone Head



Slotted Head



Knurled Head

RANGE

LED	CAT. No.	APPROX. kg	CIRCUIT
Standard Version			
12W	GT 15070	2.6	L
24W	GT 15071	2.6	L-A-T
Smart Version			
24W	GT 15072D	2.7	



Open

RANGE

LED	CAT. No.	APPROX. kg	CIRCUIT
Standard Version			
12W	GT 15073	3.0	L
24W	GT 15074	3.0	L-A-T
Smart Version			
24W	GT 15075D	3.1	



Frosted Outer Drop Glass

RANGE

LED	CAT. No.	APPROX. kg	CIRCUIT
Standard Version			
12W	GT 15076	3.1	L
24W	GT 15077	3.1	L-A-T
Smart Version			
24W	GT 15078D	3.2	



Frosted Inner Drop Glass

RANGE

LED	CAT. No.	APPROX. kg	CIRCUIT
Standard Version			
12W	GT 15079	3.0	L
24W	GT 15080	3.0	L-A-T
Smart Version			
24W	GT 15081D	3.1	



Light Green Tinted Halo

RANGE

LED	CAT. No.	APPROX. kg	CIRCUIT
Standard Version			
12W	GT 15082	2.6	L
24W	GT 15083	2.6	L-A-T



IK10 Blue Edge Tinted Polycarbonate tamper and impact resistant

Impact and tamper resistant. Suitable for mental health units.

RANGE

LED	CLEAR GLASS VERSION	FROSTED GLASS VERSION	CLEAR POLY. VERSION	APPROX. kg	CIRCUIT
Standard Version					
12W	GT 15085	GT 15088	GT 15091	3.0	L
24W	GT 15086	GT 15089	GT 15092	3.0	L-A-T



Glass or IK10 Polycarbonate - IP65

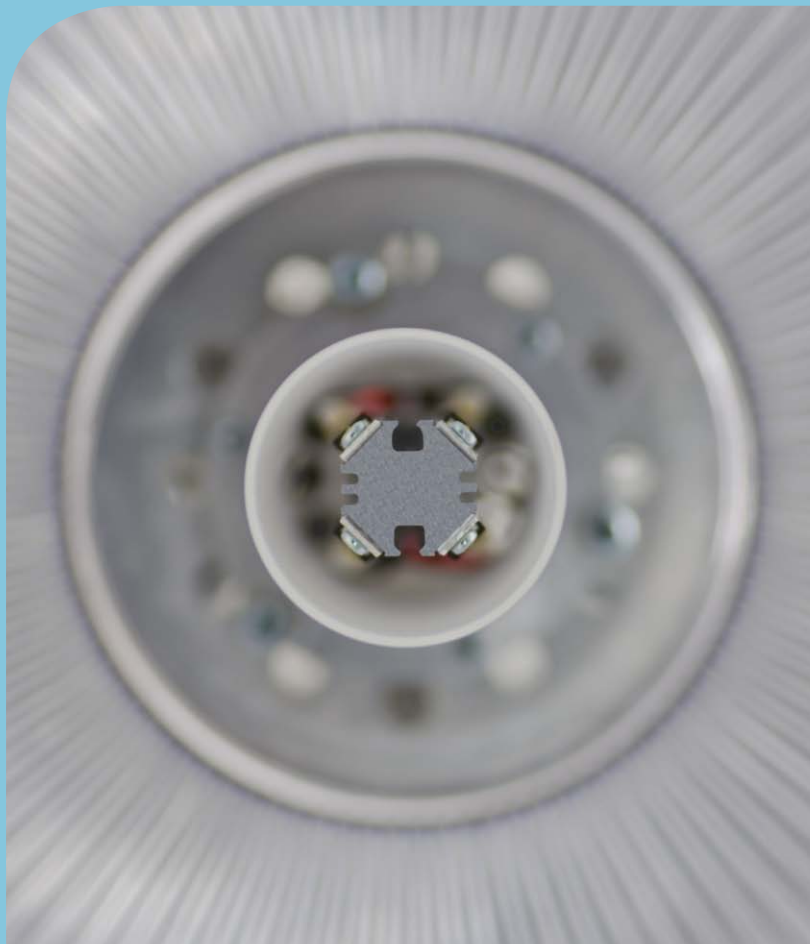
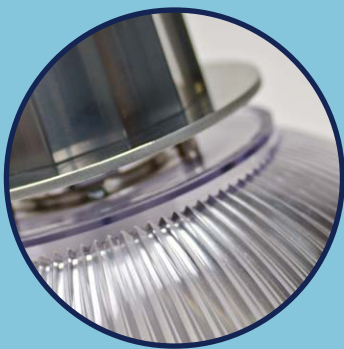
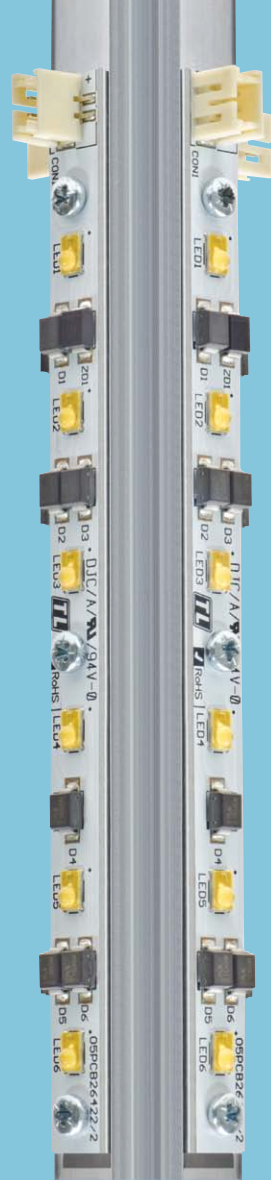
CIRCUIT - add suffix required (Standard versions only):
L - non-dimming (LED) **A** - dimming (DALI) **T** - dimming (DSI) e.g. **GT 15070L**

EMERGENCY VERSION - Prefix catalogue number with 'EGT' e.g. **EGT 15070L**.

AUTOTEST VERSION - Prefix catalogue number with 'TGT' e.g. **TGT 15070L**.

SCANLIGHT AT VERSION - Prefix catalogue number with 'DGT' e.g. **DGT 15070L**.

Emergency, AutoTest and Scanlight AT versions add 0.3kg to weights listed.



FEATURES

- Refractor in polycarbonate and reflector in anodised aluminium
- Gloss silver finish extruded aluminium body
- Satin tube over LEDs reduces glare and diffuses light
- Supplied with 2 metre black lead
- 60,000 hour LED life expectancy
- Fitted with 4000K LEDs

IP20 

LED CHARACTERISTICS

Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/W
80+	4000	60K	P	>85	R	>0.9	53.8

RANGE

LED	CAT. No.	HEIGHT (mm)	DIAMETER (mm)	APPROX. kg
Polycarbonate Refractor				
24W	SH 15156L	365	312	1.9
36W	SH 15157L	365	312	1.9
Aluminium Reflector				
24W	SH 15158L	365	356	1.8
36W	SH 15159L	365	356	1.8



Polycarbonate Refractor



Aluminium Reflector

Dot / Dot Halo



Opal



Satin Sparkle



FEATURES

- Spun aluminium body finished full polyester, non-yellowing white (internal and external)
- Opal or high efficiency satin sparkle effect polycarbonate cover
- Optional 4W LED halo ring (RGB or white, see page 17)
- Emergency, AutoTest and Scanlight versions using integral 1.5W high power LED
- Main LED source has LED failure protection
- 60,000 hour LED life expectancy
- Fitted with 4000K LEDs

IP40  TP(a)

LED CHARACTERISTICS

Satin Sparkle

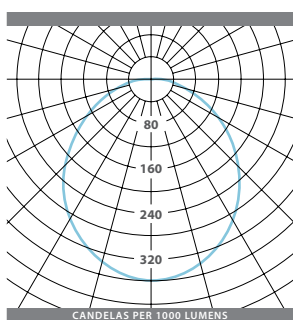
Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/W
80+	4000	60K	P	>80	R	>0.95	68.0

Opal

Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/W
80+	4000	60K	P	>80	R	>0.95	50.0

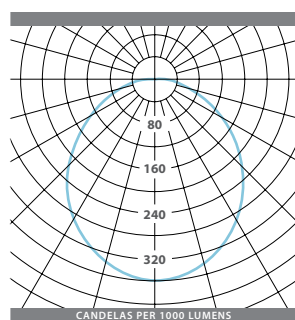
PHOTOMETRIC GUIDE

SATIN SPARKLE



Luminaire Lumen Output:
20W - 1700 lm

OPAL



Luminaire Lumen Output:
20W - 1250 lm

- Light output equivalent to typical 38W 2D fluorescent types

STANDARD RANGE

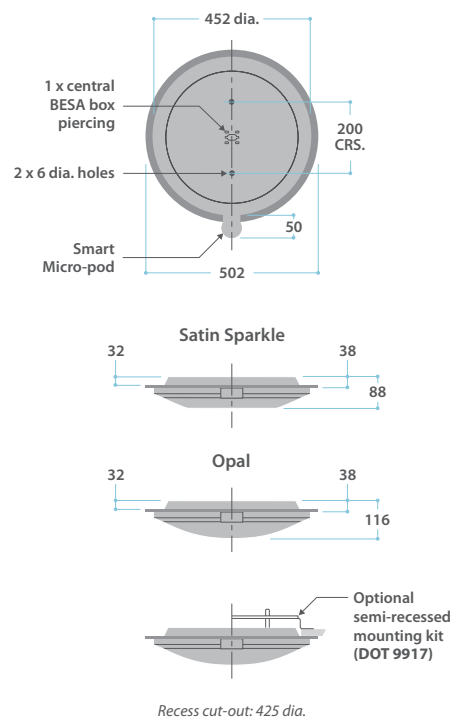
LED	STANDARD VERSION	APPROX. kg	WHITE LED HALO VERSION	RGB LED HALO VERSION	APPROX. kg
Satin Sparkle					
20W	DOT 14794L	2.0	DOT 14795L	DOT 14796L	2.7
Opal					
20W	DOT 14797L	2.0	DOT 14798L	DOT 14799L	2.7

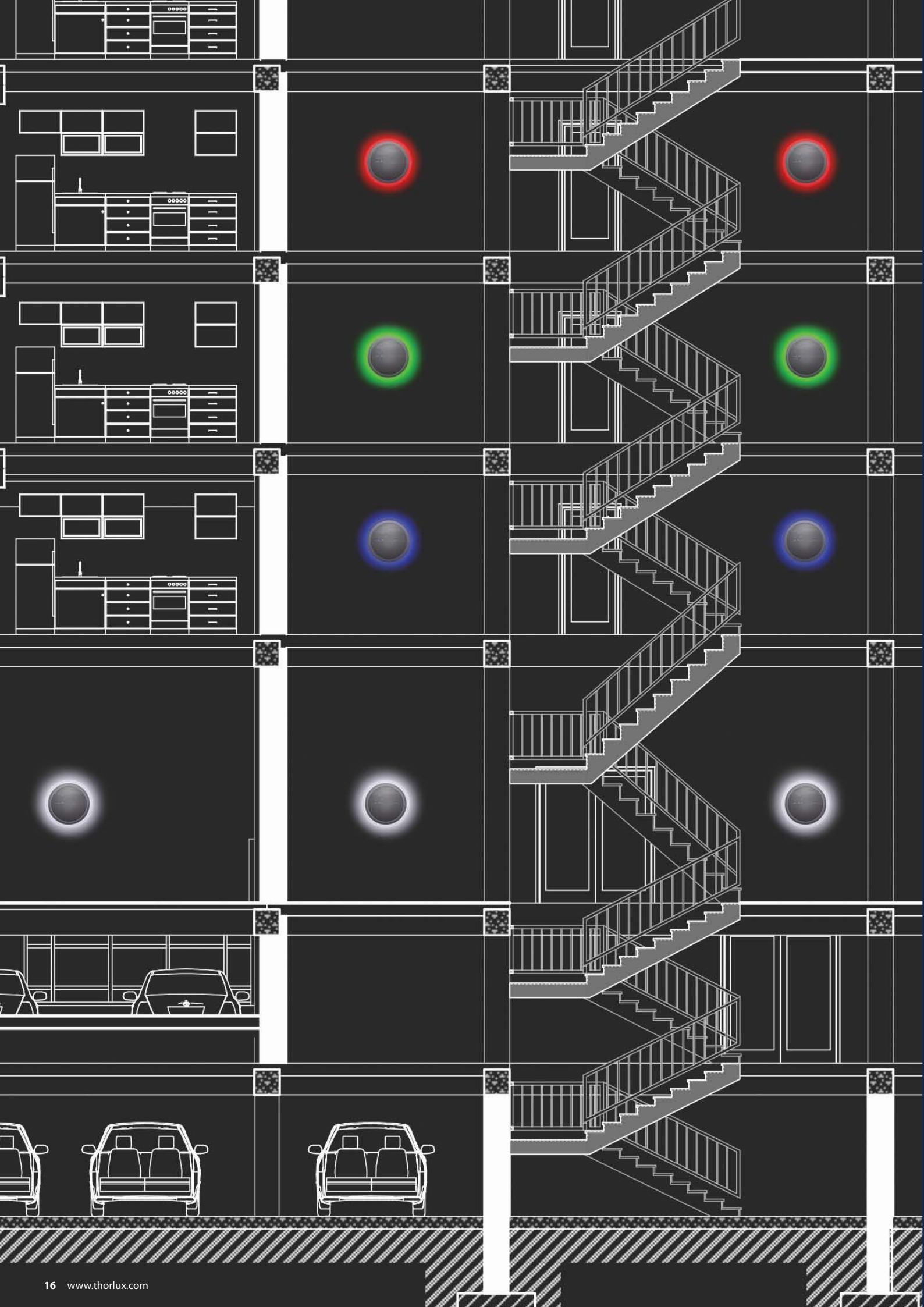
SMART RANGE

LED	STANDARD VERSION	APPROX. kg	WHITE LED HALO VERSION	RGB LED HALO VERSION	APPROX. kg
Satin Sparkle					
20W	DOT 14803D	2.1	DOT 14804D	DOT 14805D	2.8
Opal					
20W	DOT 14806D	2.1	DOT 14807D	DOT 14808D	2.8

EMERGENCY VERSION - Prefix catalogue number with 'EDT' e.g. **EDT 14794L**.
 AUTOTEST VERSION - Prefix catalogue number with 'TDT' e.g. **TDT 14794L**.
 SCANLIGHT AT VERSION - Prefix catalogue number with 'DDT' e.g. **DDT 14794L**.
 Emergency, AutoTest and Scanlight AT versions add 0.3kg to weights listed.

DIMENSIONS







The **DOTLED** is available with optional separately switched 4W red, green, blue (RGB) or white backlit Halo ring. The RGB version has 4 quadrant circuit boards and each is supplied with a switch to enable simple individual quadrant colour selection during installation.

Add some life and energy to projects; particularly suitable for primary schools.

The ability to switch the colour of each quadrant individually makes **DOTLED** extremely versatile. Different colour and pattern combinations can be used to clearly define separate floors or areas of a building or could simply be used to create an effect along a corridor or up a flight of stairs.





LED Light Engine



Smart Version



Sky-Dome Design Registration Number 3021532

FEATURES

- Steel body finished full polyester, non-yellowing white
- Shallow body depth
- Domed diffuser provides wall and ceiling illumination
- Suitable for most ceiling types. Lay-in or pull-up with optional side arm suspensions
- Designed to exclude dust, dirt and flies.
All control gear is outside the lamp enclosure and the diffuser frame is gasketed
- 60,000 hour LED life expectancy
- Fitted with 6500K or 4000K LEDs

IP44 **TP(a)**
LAMP COMPARTMENT

IP42 **TP(a)**
LAMP COMPARTMENT (Smart version)

IP20
GEAR COMPARTMENT

LED CHARACTERISTICS

Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/W
80+	4000 6500	60K	P	>85	R	>0.9	85.7

STANDARD RANGE

NOMINAL SIZE (mm)	LED	CAT. No.	APPROX. kg	CIRCUIT
600 x 600	30W - 6500K	SD 15170	6.7	L-A
	30W - 4000K	SD 15171	6.7	L-A
	43W - 6500K	SD 15172	6.7	L-A
	43W - 4000K	SD 15173	6.7	L-A

CIRCUIT - add suffix required:
L - non-dimming (LED) A - dimming (DALI) e.g. **SD 15170L**

SMART RANGE

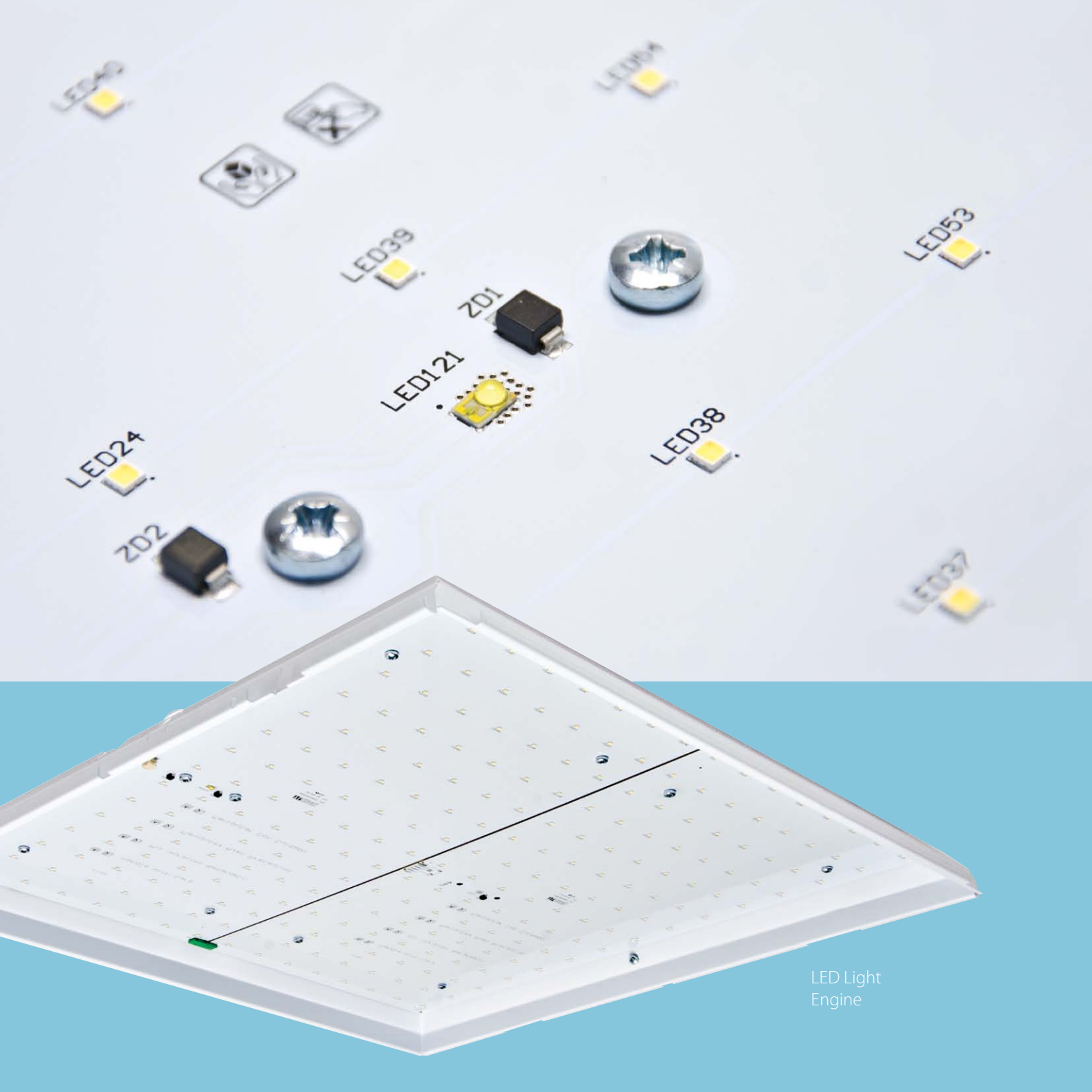
NOMINAL SIZE (mm)	LED	CAT. No.	APPROX. kg
600 x 600	30W - 6500K	SD 15176D	6.9
	30W - 4000K	SD 15177D	6.9
	43W - 6500K	SD 15178D	6.9
	43W - 4000K	SD 15179D	6.9

EMERGENCY VERSION - Prefix catalogue number with 'ESD' e.g. **ESD 15070L**
AUTOTEST VERSION - Prefix catalogue number with 'TSD' e.g. **TSD 15070L**
SCANLIGHT AT VERSION - Prefix catalogue number with 'DSD' e.g. **DSD 15070L**
 Emergency, AutoTest and Scanlight AT versions add 0.3kg to weights listed.

ACCESSORIES

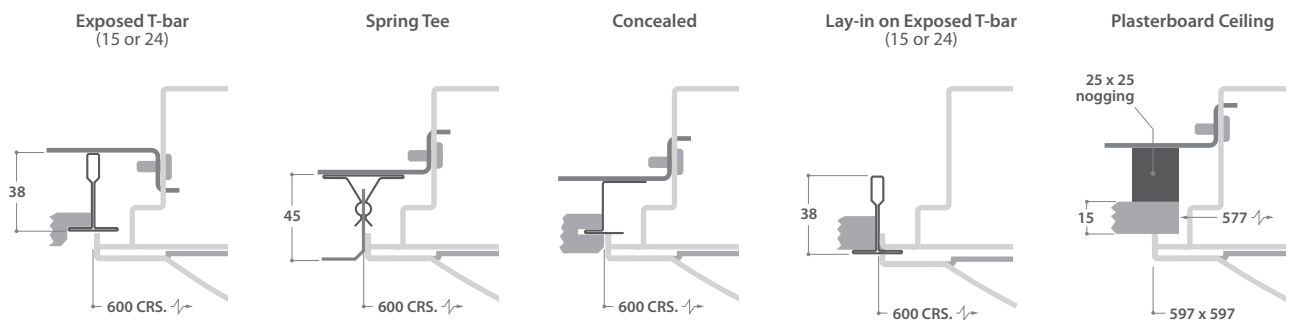
DESCRIPTION	CAT. No.
Optional side arm suspension kit ▲	XL 11138

▲ 4 arms per kit - not required for lay-in mounting



LED Light Engine

MOUNTING ARRANGEMENTS

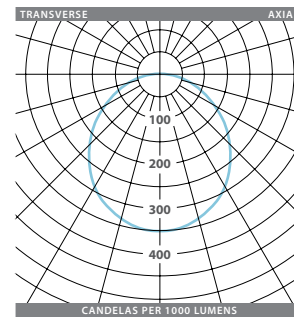


PERFORMANCE GUIDE

Typical task area illuminance assuming an open area with good reflection factors, 0.85 maintenance factor and a 2.65 metre ceiling height.

LED	SPACING (Metres)	LUX AVERAGE 70/50/20	LUX AVERAGE 80/60/30
Open Plan			
30W	3.0 x 3.0	310	350
	3.0 x 2.4	370	430
	2.4 x 2.4	450	500
43W	3.0 x 3.0	430	490
	3.0 x 2.4	520	590
	2.4 x 2.4	620	700
Corridor			
30W	5.4	195	231
43W	5.4	270	320

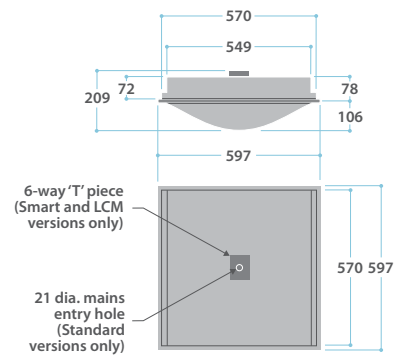
PHOTOMETRIC GUIDE



Luminaire Lumen Output:
 30W - 3030 lm
 43W - 4200 lm



DIMENSIONS





LED Light Engine



Smart Version



LED Light Diffusion

FEATURES

- Steel body finished full polyester, non-yellowing white
- Shallow body depth
- Suitable for most ceiling types. Lay-in or pull-up with optional side arm suspensions
- Designed to exclude dust, dirt and flies. All control gear is outside the lamp enclosure and the diffuser frame is gasketed
- 60,000 hour LED life expectancy
- Fitted with 6500K or 4000K LEDs



IP44 **TP(a)**
LAMP COMPARTMENT

IP42 **TP(a)**
LAMP COMPARTMENT (Smart version)

IP20
GEAR COMPARTMENT

LED CHARACTERISTICS

Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/W
80+	4000 6500	60K	P	>85	R	>0.9	82.0

STANDARD RANGE

NOMINAL SIZE (mm)	LED	CAT. No.	APPROX. kg	CIRCUIT
600 x 600	30W - 6500K	PU 15160	6.7	L-A
	30W - 4000K	PU 15161	6.7	L-A
	43W - 6500K	PU 15162	6.7	L-A
	43W - 4000K	PU 15163	6.7	L-A

CIRCUIT - add suffix required:

L - non-dimming (LED) **A** - dimming (DALI) e.g. **PU 15160L**

SMART RANGE

NOMINAL SIZE (mm)	LED	CAT. No.	APPROX. kg
600 x 600	30W - 6500K	PU 15164D	6.9
	30W - 4000K	PU 15165D	6.9
	43W - 6500K	PU 15166D	6.9
	43W - 4000K	PU 15167D	6.9

EMERGENCY VERSION - Prefix catalogue number with 'EPU' e.g. **EPU 15160L**.

AUTOTEST VERSION - Prefix catalogue number with 'TPU' e.g. **TPU 15160L**.

SCANLIGHT AT VERSION - Prefix catalogue number with 'DPU' e.g. **DPU 15160L**.

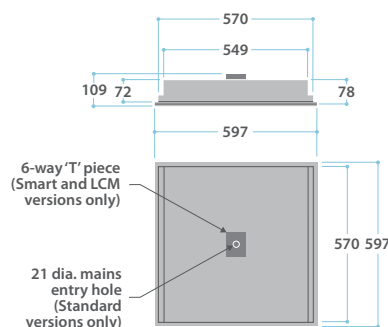
Emergency, AutoTest and Scanlight AT versions add 0.3kg to weights listed.

ACCESSORIES

DESCRIPTION	CAT. No.
Optional side arm suspension kit ▲	XL 11138

▲ 4 arms per kit - not required for lay-in mounting

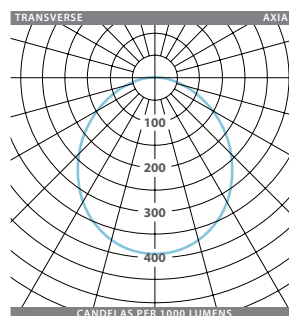
DIMENSIONS



MOUNTING ARRANGEMENTS

See Sky-Dome - page 20

PHOTOMETRIC GUIDE



Luminaire Lumen Output:
30W - 2840 lm
43W - 3950 lm

XL-Five Daylite

Recessed luminaires for general lighting and VDT environments

FEATURES

- Steel body finished full polyester, non-yellowing white
- Window like 'Daylite' panel provides polarised light
- Suitable for VDT intensive environments
- Shallow body depth
- Supplied with side arm suspension kit
- Smart versions supplied with side arm suspension kit
- 60,000 hour LED life expectancy
- Fitted with 6500K LEDs

IP40 **CE** TP(a)

LED CHARACTERISTICS

Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/W
80+	6500	60K	P	>85	R	>0.9	82.3

STANDARD RANGE

NOMINAL SIZE (mm)	LED	CAT. No.	APPROX. kg	CIRCUIT
600 x 600	30W	XL 15186	7.3	L-A
	43W	XL 15187	7.3	L-A

CIRCUIT - add suffix required:

L - non-dimming (LED) **A** - dimming (DALI) e.g. **XL 15186L**

SMART RANGE

NOMINAL SIZE (mm)	LED	CAT. No.	APPROX. kg
600 x 600	30W	XL 15188D	7.5
	43W	XL 15189D	7.5

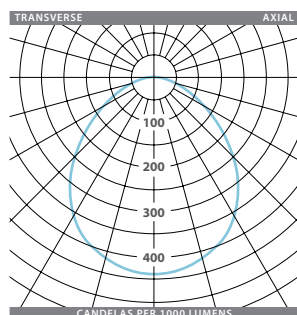
EMERGENCY VERSION - Prefix catalogue number with 'EXL' e.g. **EXL 15186L**.

AUTOTEST VERSION - Prefix catalogue number with 'TXL' e.g. **TXL 15186L**.

SCANLIGHT AT VERSION - Prefix catalogue number with 'DXL' e.g. **DXL 15186L**.

Emergency, AutoTest and Scanlight AT versions add 0.3kg to weights listed.

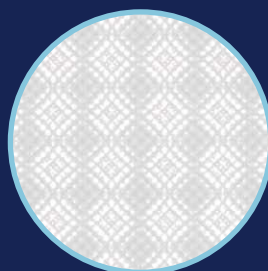
PHOTOMETRIC GUIDE



Luminaire Lumen Output:
30W - 2850 lm
43W - 4040 lm



LED Light Engine



XL-Five Daylite LED Light Diffusion



Smart Version



XL-Five Daylite LED

Flat panel in frame - TP(a)

Fire retardant flat prismatic polycarbonate controller, fitted with an extruded aluminium anodised frame.

TP(a) rating avoids spacing restrictions imposed by Building Regulations Approved Document B 2002: Fire Safety.

Emergency versions suitable for lighting defined escape routes.

DIMENSIONS

As Plateau - see page 23

MOUNTING ARRANGEMENTS

As Sky-Dome - see page 20



XL-Five Prismatic Controller LED

Flat panel in frame - TP(a)

Fire retardant flat prismatic polycarbonate controller, fitted with an extruded aluminium anodised frame.

TP(a) rating avoids spacing restrictions imposed by Building Regulations Approved Document B 2002: Fire Safety.

Emergency versions suitable for lighting defined escape routes.

DIMENSIONS

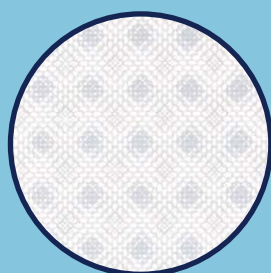
As Plateau - see page 23

MOUNTING ARRANGEMENTS

As Sky-Dome - see page 20



LED Light Engine



XL-Five Prismatic Controller LED Light Diffusion



Smart Version

FEATURES

- Steel body finished full polyester, non-yellowing white
- Flat polycarbonate prismatic controller
- Shallow body depth
- Supplied with side arm suspension kit
- 60,000 hour LED life expectancy
- Fitted with 4000K LEDs

IP40 CE TP(a)

LED CHARACTERISTICS

Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/W
80+	4000	60K	P	>85	R	>0.9	89.8

STANDARD RANGE

NOMINAL SIZE (mm)	LED	CAT. No.	APPROX. kg	CIRCUIT
600 x 600	30W	XL 15182	6.3	L-A
	43W	XL 15183	6.3	L-A

CIRCUIT - add suffix required:

L - non-dimming (LED) A - dimming (DALI) e.g. **XL 15182L**

SMART RANGE

NOMINAL SIZE (mm)	LED	CAT. No.	APPROX. kg
600 x 600	30W	XL 15184D	6.5
	43W	XL 15185D	6.5

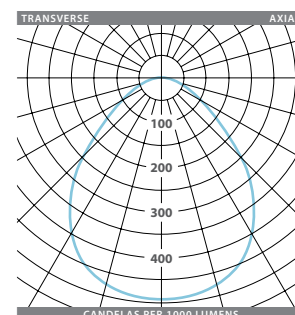
EMERGENCY VERSION - Prefix catalogue number with 'EXL' e.g. **EXL 15182L**

AUTOTEST VERSION - Prefix catalogue number with 'TXL' e.g. **TXL 15182L**

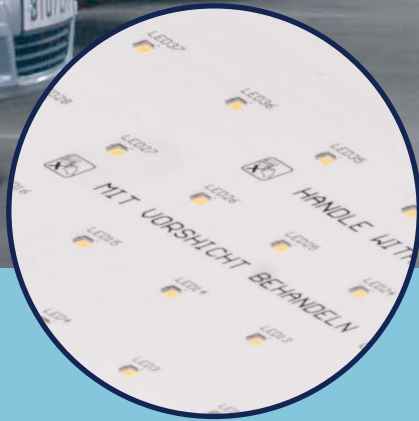
SCANLIGHT AT VERSION - Prefix catalogue number with 'DXL' e.g. **DXL 15182L**

Emergency, AutoTest and Scanlight AT versions add 0.3kg to weights listed.

PHOTOMETRIC GUIDE



Luminaire Lumen Output:
30W - 3050 lm
43W - 4400 lm

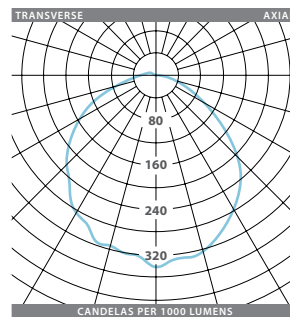


INSTALLATION KITS

KIT	CAT. No.	DESCRIPTION	APPROX. kg
Hook suspension	IK 6388	Two stainless steel hooks with sealing washers for chain suspension	0.05
IP65 gland kit	IK 6389	Weatherproof nylon gland with sealing washers for 20mm entry of flexible cables	0.02
Conduit entry	IK 6390	IP65 20mm conduit suspension sealing washer kit	0.01
Rod suspension	IK 6391	IP65 10mm diameter rod sealing washer kit	0.01

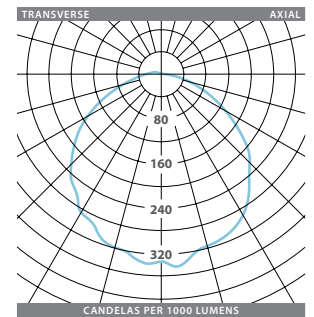
PHOTOMETRIC GUIDE

POLYCARBONATE



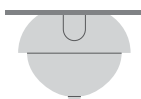
Luminaire Lumen Output:
58W - 6100 lm

ACRYLIC



Luminaire Lumen Output:
58W - 6400 lm

EXTERNAL FIXINGS



An external backstrap option is available to special order

FEATURES

- Robust and durable extruded aluminium body with die-cast ends
- Body dissipates heat, ensuring long control gear life in higher ambient temperatures
- Removable gear tray, hangs on safety straps for easy maintenance
- 60,000 hour LED life expectancy
- Fitted with 4000K LEDs

Polycarbonate version

- High impact-resistant textured, flame-retardant polycarbonate cover
- Tamper-resistant cover screws
- Complies with M.O.D. JSP482 Chapter 8 Document for 'Category C' areas

Acrylic version

- Smooth acrylic cover has high resistance to corrosion
- Compatible with food industry standards. Easy to clean, minimal dust traps. Captive assembly minimises risk of falling components

IP65 

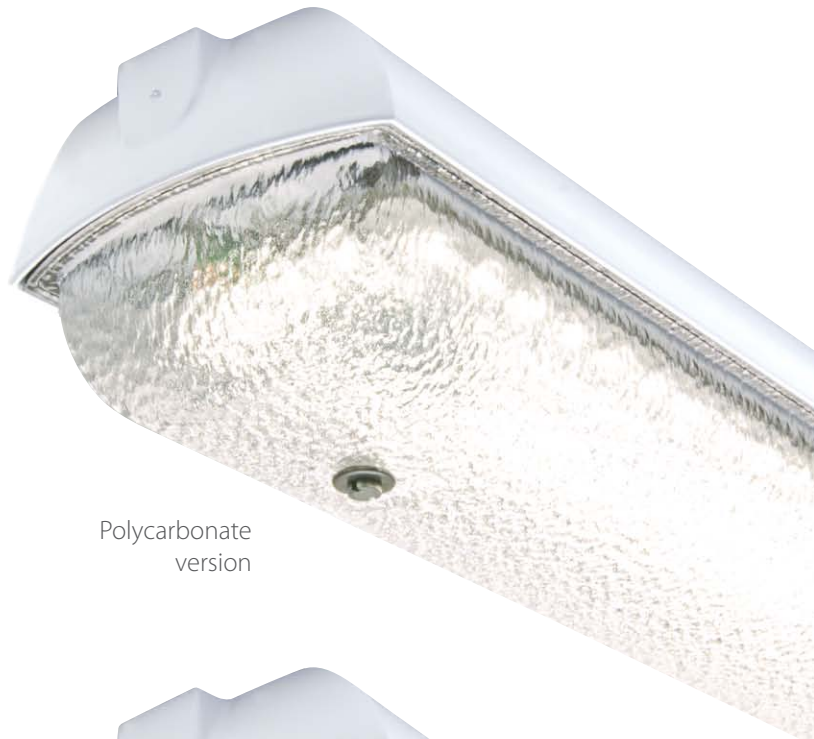
LED CHARACTERISTICS

Polycarbonate version

Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/W
80+	4000	60K	P	>85	R	>0.95	91.0

Acrylic version

Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/W
80+	4000	60K	P	>85	R	>0.95	95.5



Polycarbonate version



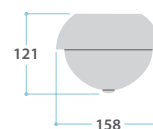
Acrylic version

RANGE

NOMINAL SIZE (mm)	LED	CAT. No.	APPROX. kg
Polycarbonate version			
1500	58W	AL 15212L	8.0
Acrylic version			
1500	58W	AL 15213L	8.0

EMERGENCY VERSION - Prefix catalogue number with 'EAL' e.g. **EAL 15212L**.
AUTOTEST VERSION - Prefix catalogue number with 'TAL' e.g. **TAL 15212L**.
SCANLIGHT AT VERSION - Prefix catalogue number with 'DAL' e.g. **DAL 15212L**.
 Emergency and AutoTest versions add 0.7kg to weights listed.

DIMENSIONS



FEATURES

- Zinc coated steel body finished full polyester, non-yellowing white
- 2.8mm thick acrylic front cover
- Recessed or surface mounting options
- Optional fully integral Smart Micro-pod Sensor for automatic switching, dimming, presence detection and daylight sensing
- 60,000 hour LED life expectancy
- Fitted with 4000K LEDs

IP43  

LED CHARACTERISTICS

Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/W
80+	4000	60K	P	>90	R	>0.95	55.0

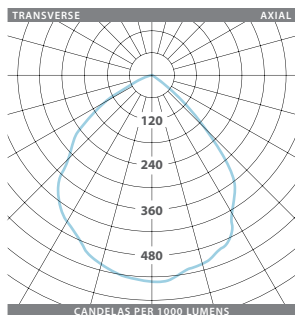
STANDARD RANGE

LED	CAT. No.	APPROX. kg
Recessed		
110W	LY 14902L	14.3
Surface Mounted		
110W	LY 14904L	10.0

SMART RANGE

LED	CAT. No.	APPROX. kg
Recessed		
110W	LY 14903D	14.4
Surface Mounted		
110W	LY 14905D	10.1

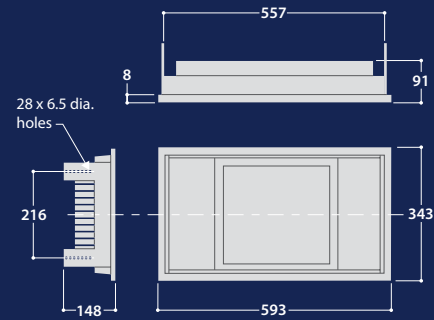
PHOTOMETRIC GUIDE



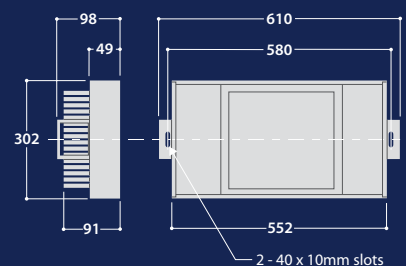
Luminaire Lumen Output:
110W - 7150 lm



Recessed



Surface Mounted



FEATURES

- Strong pressure die-cast LM24 aluminium body. Textured black, full polyester powder finish as standard
- White option finish
- Hinged clear prismatic or satin, flame-retardant polycarbonate cover
- Tamper-resistant cover screws as standard
- Bezel trim for semi-recessed mounting
- Emergency version uses 1.5W high power LED
- 60,000 hour LED life expectancy
- Fitted with 4000K LEDs

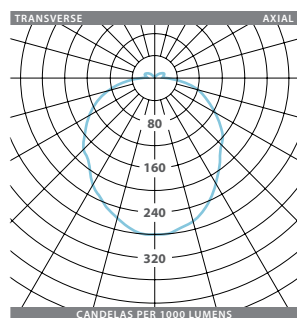
IP65

LED CHARACTERISTICS

Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/W
80+	4000	60K	P	85	R	>0.95	77.9

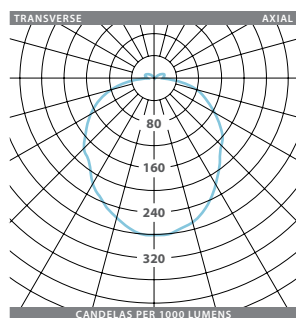
PHOTOMETRIC GUIDE

CLEAR



Luminaire Lumen Output:
16W - 1480 lm

SATIN



Luminaire Lumen Output:
16W - 1400 lm



RANGE

LED	CAT. No.	APPROX. kg
Clear Cover		
16W	PS 14913L	2.8
Satin Cover		
16W	PS 14914L	2.8
Retro-fit Gear Tray		
16W	PS 14917L	0.8

White Option: Add suffix **W** e.g. **PS 14913W**.

EMERGENCY VERSION - Prefix catalogue number with 'EPS' e.g. **EPS 14913L**.

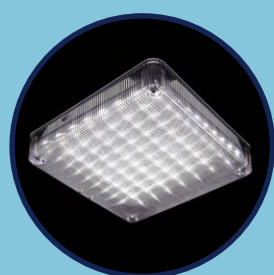
AUTOTEST VERSION - Prefix catalogue number with 'TPS' e.g. **TPS 14913L**.

SCANLIGHT AT VERSION - Prefix catalogue number with 'DPS' e.g. **DPS 14913L**.

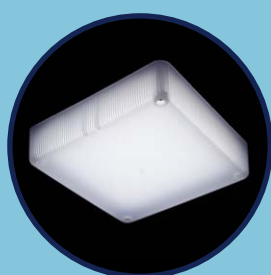
Emergency and AutoTest versions add 0.3kg to weights listed.

ACCESSORIES

DESCRIPTION	CAT. No.
Spare key for tamper-resistant screw	KY 6759
Bezel for semi-recessed mounting (black finish)	PS 11876B
Bezel for semi-recessed mounting (white finish)	PS 11876W

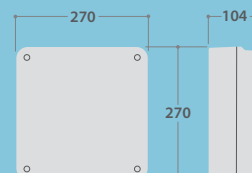


Clear Cover



Satin Cover

DIMENSIONS



Fixing points: 4 x 7mm dia. holes on 205mm centres and 1 central BESA box fixing

FEATURES

- Body and frame in strong pressure die-cast LM6M high corrosion resistance aluminium. Textured black full polyester powder finish
- Fixings outside gasket line to preserve IP rating
- Covers in prismatic polycarbonate or 9mm thick (nominal) thermally shock resistant borosilicate glass
- Clip-on nylon coated steel wire guard available
- Tamper-resistant cover screws available
- Aluminium gear tray with LED bar
- 60,000 hour LED life expectancy
- Fitted with 4000K LEDs

IP65  

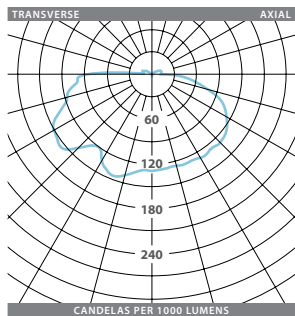
LED CHARACTERISTICS

Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/W
70	4000	60K	P	>85	R	>0.95	79.9



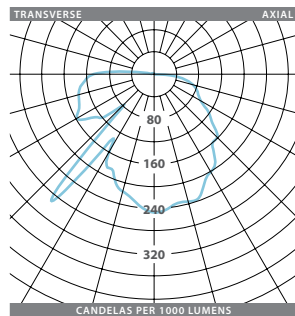
PHOTOMETRIC GUIDE

POLYCARBONATE



Luminaire Lumen Output:
20W - 1600 lm
32W - 2610 lm

GLASS



Luminaire Lumen Output:
20W - 1720 lm
32W - 2770 lm

RANGE

LED	CAT. No.	APPROX. kg
Polycarbonate Cover		
20W	PX 14932L	4.0
32W	PX 14934L	4.0
Glass Cover		
20W	PX 14933L	6.2
32W	PX 14935L	6.2
Retro-fit Gear Tray		
20W	PX 14936L	1.6
32W	PX 14937L	1.6

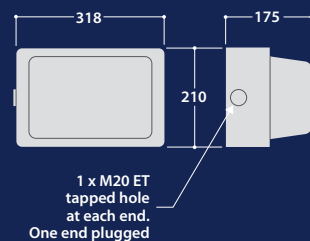
ACCESSORIES

DESCRIPTION	CAT. No.
Steel wire guard (black nylon coated)	WG 5071
Tamper-resistant screw kit	SCR 6758
Key for tamper-resistant screw kit	KY 6759



Retro-fit Gear Tray

DIMENSIONS



FEATURES

- Body and frame in strong pressure die-cast LM6M high corrosion resistance aluminium. Textured black full polyester powder finish
- Cover frame retained on two stainless steel safety chains
- Covers in prismatic polycarbonate or 9mm thick (nominal) thermally shock resistant borosilicate glass
- Fixings outside gasket line to preserve IP rating
- Clip-on nylon coated steel wire guard available
- Optional photocell control
- Tamper-resistant cover screws available
- Aluminium gear tray with LED bar
- High ambient temperature versions (details available on request)
- 60,000 hour LED life expectancy
- Fitted with 4000K LEDs

IP65 

LED CHARACTERISTICS

Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/W
70	4000	60K	P	>85	R	>0.95	82.5

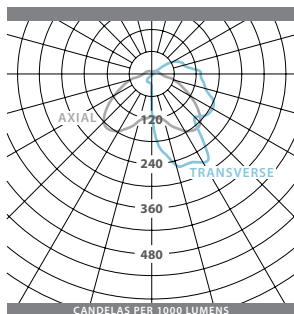


RANGE

LED	CAT. No.	APPROX. kg
Polycarbonate Cover		
24W	PL 14897L	4.4
38W	PL 14899L	4.4
Glass Cover		
24W	PL 14898L	6.6
38W	PL 14900L	6.6
Retro-fit Gear Tray		
24W	PL 14930L	1.6
38W	PL 14931L	1.6

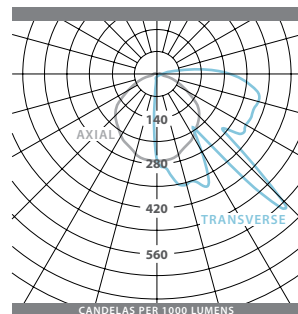
PHOTOMETRIC GUIDE

POLYCARBONATE



Luminaire Lumen Output:
24W - 1520 lm
38W - 2060 lm

GLASS



Luminaire Lumen Output:
24W - 1650 lm
38W - 2240 lm

ACCESSORIES

DESCRIPTION	CAT. No.
Steel wire guard (black nylon coated)	WG 6237
Tamper-resistant screw kit	SCR 6758
Key for tamper-resistant screw kit	KY 6759

OPTIONS

DESCRIPTION	SUFFIX	CAT. No.
Photocell	PC	PL 14897PC etc.

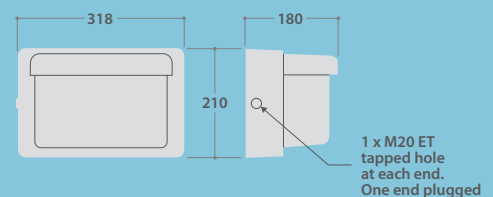


Wire Guard



Retro-fit Gear Tray

DIMENSIONS



Fixing points: 4 x 7mm dia. concealed holes on 290 x 150mm centres
Rear entry: 1 x 20.6mm dia. hole (plugged)



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Thorlux Carbon Offsetting Project:
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