

# GENERAL CATALOG - 2012



**SOURCE IEx**

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# RECESSED LIGHTING

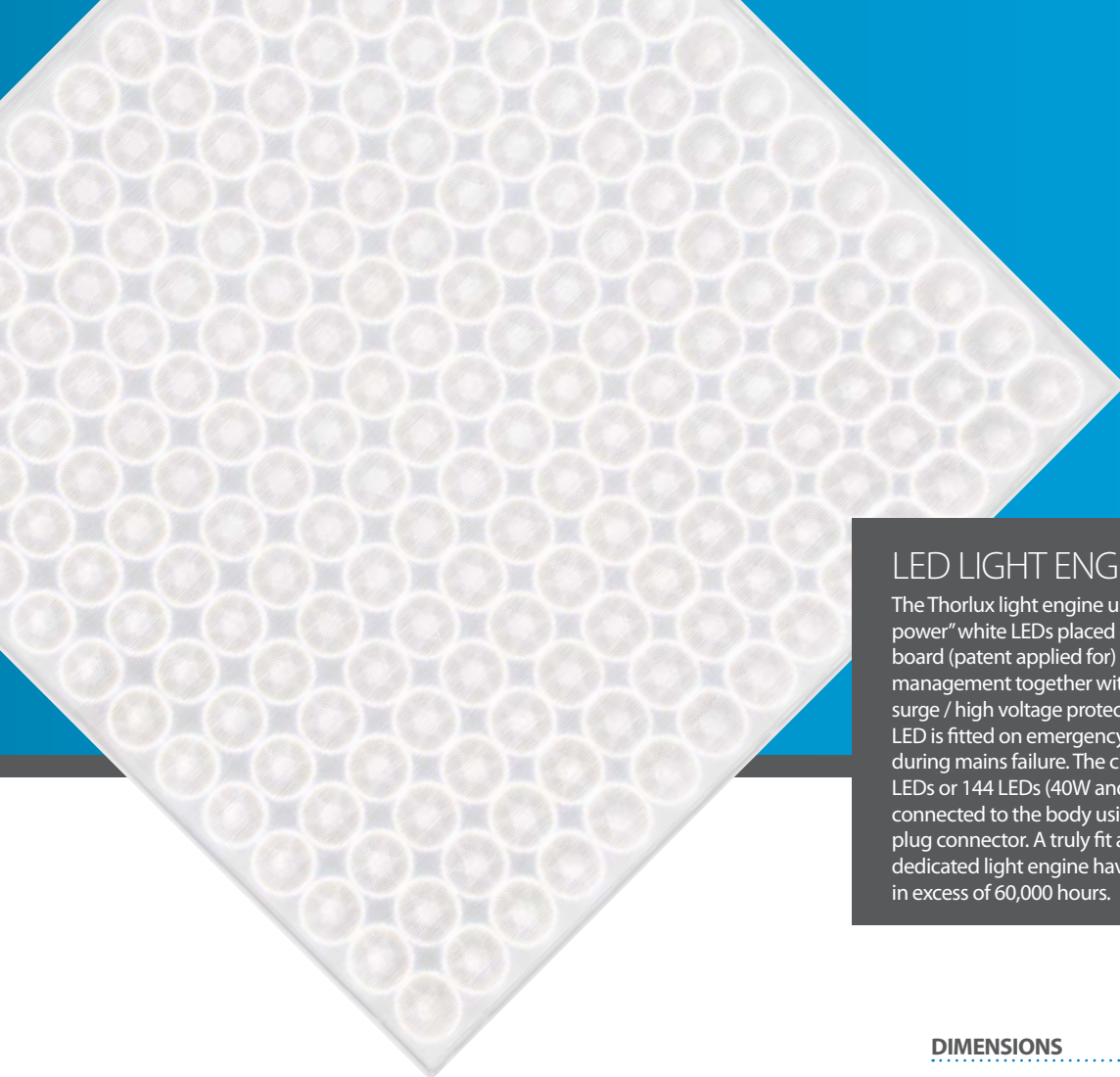
VIVA







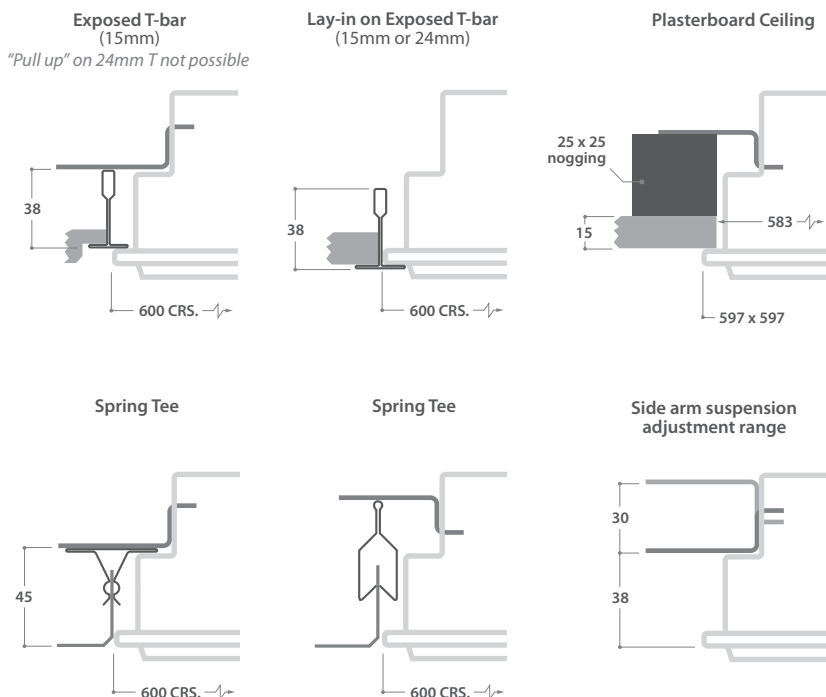




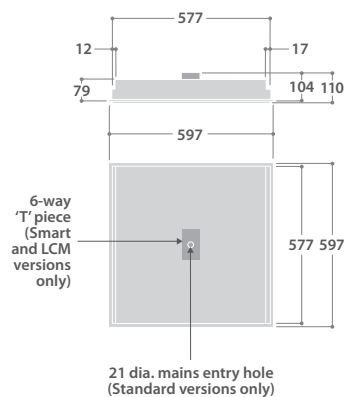
## LED LIGHT ENGINE

The Thorlux light engine uses the very latest "medium power" white LEDs placed onto a specially designed circuit board (patent applied for) providing excellent thermal management together with LED failure protection and surge / high voltage protection. An additional high powered LED is fitted on emergency versions and is only illuminated during mains failure. The circuit boards use either 196 LEDs or 144 LEDs (40W and 24W respectively) and are connected to the body using a high quality multi-way plug connector. A truly fit and forget, well-engineered, dedicated light engine having a life expectancy well in excess of 60,000 hours.

## MOUNTING ARRANGEMENTS



## DIMENSIONS



## 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.

LAMP	SPACING (Metres)	LUX AVERAGE	LUX AVERAGE
		70/50/20	80/60/30
24W LED	3.0 x 3.0	270	300
	3.0 x 2.4	330	370
	2.4 x 2.4	400	450
40W LED	3.0 x 3.0	450	500
	3.0 x 2.4	550	615
	2.4 x 2.4	670	750



**SPECIFICATION**

- Steel body finished full polyester satin white (RAL 9016)
- Shallow body depth
- Supremely efficient lens system - 102 lumens per “lamp” watt
- Excellent glare cut back above 65°. LG7:2005 (<1500cd/m² @ 65°)
- Lively LED effect
- Construction maintains ceiling “lines” with no protrusion into space
- Suitable for most ceiling types
- Designed to exclude dust, dirt and flies from lamp compartment
- Fitted with 4000K LEDs



Smart version

**LED CHARACTERISTICS**

Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/CW
80+	4000	60K	P	>85	R	>0.9	92.6

For LED characteristics explanation see [www.thorlux.com/led-characteristics](http://www.thorlux.com/led-characteristics)

**ACCESSORIES**

DESCRIPTION	CAT. No.
Optional side arm suspension kit ▲	<b>XL 11138</b>

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

**RANGE**

	NOMINAL SIZE (mm)	LED	CAT. No.	APPROX. kg	CIRCUIT
<b>SMART</b>	600 x 600	24W	<b>VV 15386D</b>	6.4	
		40W	<b>VV 15387D</b>	6.4	
<b>STANDARD</b>	600 x 600	24W	<b>VV 15384</b>	6.3	L/A
		40W	<b>VV 15385</b>	6.3	L/A

**CIRCUIT TYPE** - suffix catalogue number with:

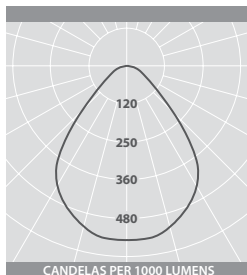
**L** - non-dimming (LED) / **A** - dimming (DALI) e.g. **VV 15384L** etc.  
Smart versions use digital dimming gear and are always suffixed **D**

**EMERGENCY VERSION** - prefix catalogue number with:

**EVV** - Emergency / **TVV** - AutoTest / **DVV** - Scanlight AT e.g. **EVV 15384L** etc.  
Emergency, AutoTest and Scanlight AT versions add 0.3kg to weights listed

**PHOTOMETRIC GUIDE**

**LED**



Luminaire Lumen Output  
24W = 2445lm  
40W = 4075lm

Web Link: [Smart System](#)

XL-20







## LED LIGHT ENGINE

The Thorlux light engine uses the very latest high power Royal Blue Luxeon LEDs placed onto specially designed circuit boards having excellent thermal management and fitted with LED failure protection. Each LED is placed into its own individual highly reflective light chamber (similar in concept to our G3 downlighter) with a highly efficient remote phosphor panel to convert the blue "LED" light to excellent quality, low glare white light. The three versions operate at either 700mA, 500mA or 350mA - 40W, 29W and 20W respectively. A truly fit and forget, well-engineered, dedicated LED light engine solution having a life expectancy well in excess of 60,000 hours.



*Area Emergency version*



*Corridor Emergency version*

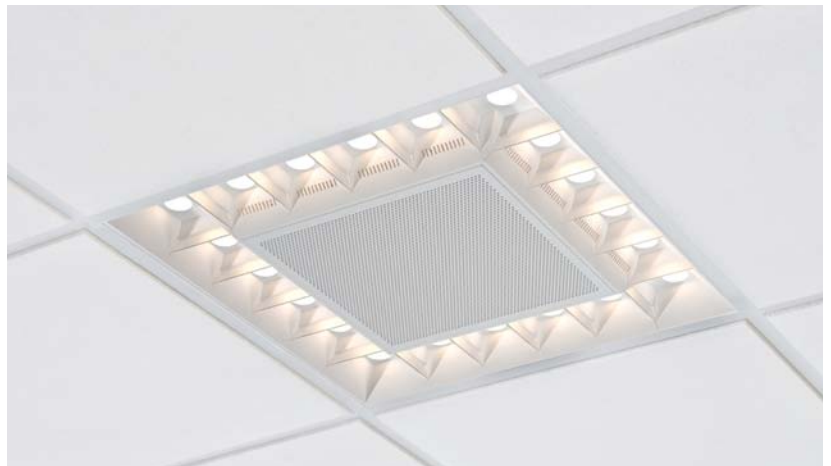


*Smart version*



**SPECIFICATION**

- Steel body finished full polyester satin white (RAL 9016)
- Shallow body depth
- 20 injection moulded blue LED mixing chambers with remote phosphor convertors
- Extremely efficient optical system - 104 lumens per “lamp” watt
- Glare cut back above 65°  
LG7:2005 (<1500cd/m² @ 65°)
- Highly technical LED solution
- Emergency versions use “Scanlight AT” LED downlighter technology
- Fitted with 4000K LEDs



**LED CHARACTERISTICS**

Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/CW
80+	4000	60K	P	>85	R	>0.9	90

For LED characteristics explanation see [www.thorlux.com/led-characteristics](http://www.thorlux.com/led-characteristics)

**ACCESSORIES**

DESCRIPTION	CAT. No.
Optional side arm suspension kit ▲	<b>XL 15402</b>

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

**STANDARD RANGE**

	NOMINAL SIZE (mm)	LED	CAT. No.	APPROX. kg	CIRCUIT
SMART	600 x 600	20W	<b>XL 15569D</b>	4.9	
		29W	<b>XL 15390D</b>	4.9	
		40W	<b>XL 15391D</b>	4.9	
STANDARD	600 x 600	20W	<b>XL 15568</b>	4.8	L/A
		29W	<b>XL 15388</b>	4.8	L/A
		40W	<b>XL 15389</b>	4.8	L/A

**EMERGENCY RANGE**

	NOMINAL SIZE (mm)	LED	AREA VERSION	CORRIDOR VERSION	APPROX. kg	CIRCUIT
SMART	600 x 600	20W	<b>XL 15572D</b>	<b>XL 15573D</b>	5.4	
		29W	<b>XL 15396D</b>	<b>XL 15398D</b>	5.4	
		40W	<b>XL 15397D</b>	<b>XL 15399D</b>	5.4	
STANDARD	600 x 600	20W	<b>XL 15570</b>	<b>XL 15571</b>	5.3	L/A
		29W	<b>XL 15392</b>	<b>XL 15394</b>	5.3	L/A
		40W	<b>XL 15393</b>	<b>XL 15395</b>	5.3	L/A

CIRCUIT TYPE - suffix catalogue number with:

**L** - non-dimming (LED) / **A** - dimming (DALI) e.g. **XL 15568L** etc.

Smart versions use digital dimming gear and are always suffixed **D**

EMERGENCY VERSION - prefix catalogue number with:

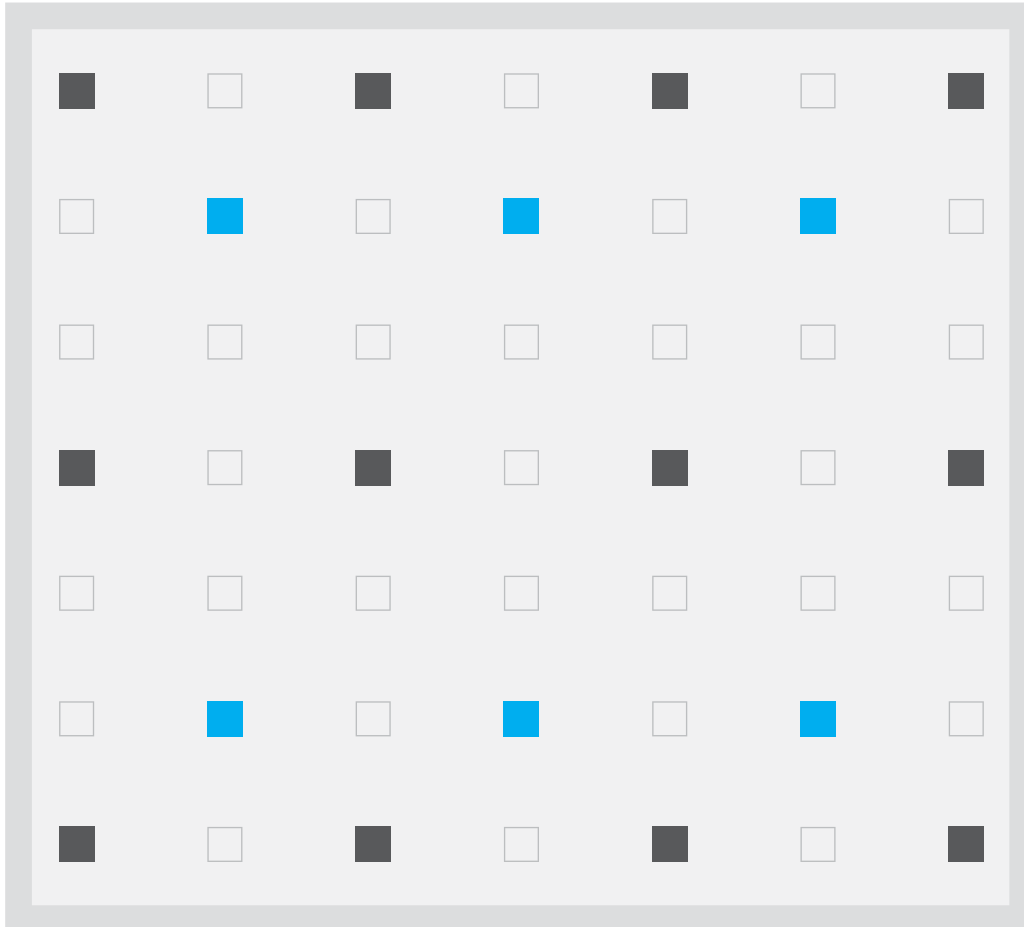
**EXL** - Emergency / **TXL** - AutoTest / **DXL** - Scanlight AT e.g. **EXL 15568L** etc.



## Typical Emergency Lighting Application

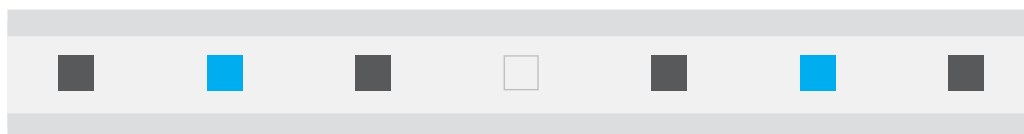
Emergency versions use tried and tested "Scanlight AT" style LED Downlighters mounted within the central panel. Sophisticated lens technology, illuminated only during mains failure, transmit light at higher angles than would normally be acceptable in VDT areas. Wider spacings mean fewer emergency luminaires are required reducing capital, maintenance and installation costs.

### AREA



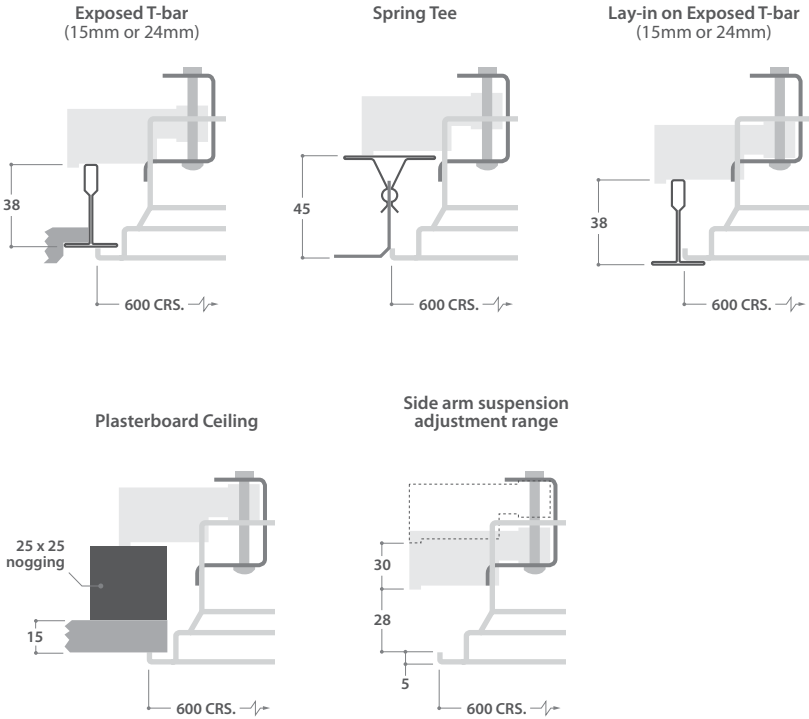
- "Conventional" 14W emergency fluorescent (**12 required**)
- XL20 with "Scanlight" LED Downlighter (area lens) (**6 required**)

### CORRIDOR

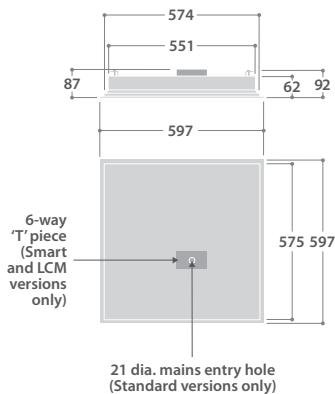


- "Conventional" 14W emergency fluorescent (**4 required**)
- XL20 with "Scanlight" LED Downlighter (corridor lens) (**2 required**)

**MOUNTING ARRANGEMENTS**



**DIMENSIONS**



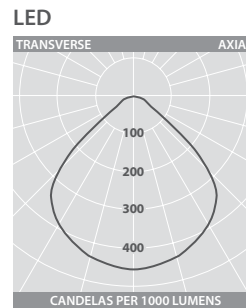
**PERFORMANCE GUIDE**

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

LAMP	SPACING (Metres)	LUX AVERAGE	LUX AVERAGE
		70/50/20	80/60/30
20W LED	3.0 x 3.0	230	260
	3.0 x 2.4	280	320
	2.4 x 2.4	340	390
29W LED	3.0 x 3.0	320	360
	3.0 x 2.4	390	430
	2.4 x 2.4	470	530
40W LED	3.0 x 3.0	430	490
	2.4 x 2.4	530	600
		650	730

OPEN PLAN

**PHOTOMETRIC GUIDE**



Luminaire Lumen Output  
20W = 2085lm  
29W = 2860lm  
40W = 3935lm

# SKY-DOME









## LED LIGHT ENGINE

The Thorlux light engine uses the very latest "medium power" white LEDs placed onto a specially designed circuit board (patent applied for) providing excellent thermal management together with LED failure protection and surge / high voltage protection. An additional high powered LED is fitted on emergency versions and is only illuminated during mains failure. The circuit boards use either 240 LEDs or 180 LEDs (43W and 30W respectively) and are connected to the body using a high quality multi-way plug connector. A truly fit and forget, well-engineered, dedicated light engine having a life expectancy well in excess of 60,000 hours.

## PERFORMANCE GUIDE

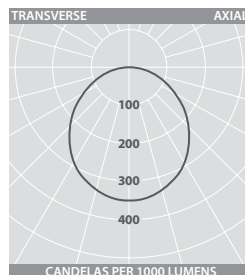
Typical task area illuminance assuming an open area with good reflection factors, 0.85 maintenance factor and a 2.65 metre ceiling height.

	LAMP	SPACING (Metres)	LUX AVERAGE	
			70/50/20	80/60/30
OPEN PLAN	30W LED	3.0 x 3.0	310	350
		3.0 x 2.4	370	430
		2.4 x 2.4	450	500
	43W LED	3.0 x 3.0	430	490
		3.0 x 2.4	520	590
		2.4 x 2.4	620	700
	3 x 13W T5 ECO	3.0 x 3.0	270	310
		3.0 x 2.4	330	380
		2.4 x 2.4	390	450
	4 x 13W T5 ECO	3.0 x 3.0	350	400
		3.0 x 2.4	430	490
		2.4 x 2.4	510	580
4 x 20W T5 ECO	3.0 x 3.0	540	620	
	3.0 x 2.4	650	750	
	2.4 x 2.4	780	880	
3 x 14W T5	3.0 x 3.0	280	320	
	3.0 x 2.4	330	380	
	2.4 x 2.4	400	450	
4 x 14W T5	3.0 x 3.0	360	420	
	3.0 x 2.4	440	500	
	2.4 x 2.4	520	600	
4 x 24W T5	3.0 x 3.0	490	570	
	3.0 x 2.4	600	680	
	2.4 x 2.4	710	800	
2 x 40W TC-L	3.0 x 3.0	500	570	
	3.0 x 2.4	600	680	
	2.4 x 2.4	710	810	
2 x 55W TC-L	3.0 x 3.0	570	650	
	3.0 x 2.4	690	780	
	2.4 x 2.4	810	920	

	LAMP	SPACING (Metres)	LUX AVERAGE	
			70/50/20	80/60/30
CORRIDOR	30W LED	5.4	195	231
	43W LED	5.4	270	320
	3 x 13W T5 ECO	5.4	120	150
	4 x 13W T5 ECO	5.4	160	200
	4 x 20W T5 ECO	5.4	250	300
	3 x 14W T5	5.4	130	160
	4 x 14W T5	5.4	170	200
	4 x 24W T5	5.4	230	280
	2 x 40W TC-L	5.4	230	280
	2 x 55W TC-L	5.4	250	300

## PHOTOMETRIC GUIDE

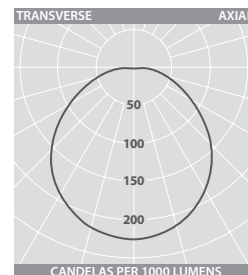
### LED



Luminaire Lumen Output  
 30W = 3030lm  
 43W = 4200lm

### 3 x 13W T5 ECO

L.O.R. 85%



Factor:  
 4 x 13W T5 ECO = 0.98  
 4 x 20W T5 ECO = 0.98  
 3 x 14W T5 = 0.94  
 4 x 14W T5 = 0.94  
 4 x 24W T5 = 0.86  
 2 x 40W TC-L = 0.86  
 2 x 55W TC-L = 0.71

IP44 LAMP SECTION IP42 LAMP SECTION (SMART) IP20 GEAR SECTION

TP(a) T5 TC-L ECO LED PATENT APPLIED FOR



Sky-Dome Design Registration Number 3021532

**SPECIFICATION**

- 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
- Fitted with 4000K or 6500K lamps / 4000K or 6500K LEDs

LED CHARACTERISTICS							
Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/CW
80+	4000 6500	60K	P	>85	R	>0.9	86.6

For LED characteristics explanation see [www.thorlux.com/led-characteristics](http://www.thorlux.com/led-characteristics)



Smart version

**ACCESSORIES**

DESCRIPTION	CAT. No.
Optional side arm suspension kit - Lamp version ▲	HI 12349
Optional side arm suspension kit - LED version ▲	XL 11138

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

**RANGE**

	NOMINAL SIZE (mm)	LAMP	CAT. No.	APPROX. kg	CIRCUIT
SMART	600 x 600	30W LED 4000K	SD 15177D	6.9	
		30W LED 6500K	SD 15176D	6.9	
		43W LED 4000K	SD 15179D	6.9	
		43W LED 6500K	SD 15178D	6.9	
		3 x 13W T5 ECO 4000K	SD 14706D	5.9	
		3 x 13W T5 ECO 6500K	SD 14714D	5.9	
		4 x 13W T5 ECO 4000K	SD 14707D	5.9	
		4 x 13W T5 ECO 6500K	SD 14715D	5.9	
		4 x 20W T5 ECO 4000K	SD 14708D	5.9	
		4 x 20W T5 ECO 6500K	SD 14716D	5.9	
		3 x 14W T5 6500K	SD 14174D	5.9	
		4 x 14W T5 6500K	SD 13787D	5.9	
		4 x 24W T5 6500K	SD 13788D	5.9	
		2 x 40W TC-L 6500K	SD 13789D	5.9	
		2 x 55W TC-L 6500K	SD 13790D	5.9	
		STANDARD	600 x 600	30W LED 4000K	SD 15171
30W LED 6500K	SD 15170			6.7	L/A
43W LED 4000K	SD 15173			6.7	L/A
43W LED 6500K	SD 15172			6.7	L/A
3 x 13W T5 ECO 4000K	SD 14701			5.8	J/D/T
3 x 13W T5 ECO 6500K	SD 14711			5.8	J/D/T
4 x 13W T5 ECO 4000K	SD 14702			5.8	J/D/T
4 x 13W T5 ECO 6500K	SD 14712			5.8	J/D/T
4 x 20W T5 ECO 4000K	SD 14703			5.8	J/D/T
4 x 20W T5 ECO 6500K	SD 14713			5.8	J/D/T
3 x 14W T5 6500K	SD 14090			5.8	J/D/T
4 x 14W T5 6500K	SD 12892			5.8	J/D/T
4 x 24W T5 6500K	SD 12893			5.8	J/D/T
2 x 40W TC-L 6500K	SD 12894			5.8	J/D/T
2 x 55W TC-L 6500K	SD 12895			5.8	J/D/T

CIRCUIT TYPE - suffix catalogue number with:

J - non-dimming (HF fluorescent) / L - non-dimming (LED) /

D - dimming (1-10V) / T - dimming (DSI) / A - dimming (DALI) e.g. SD 15170L etc.

Smart versions use digital dimming gear and are always suffixed D

EMERGENCY VERSION - prefix catalogue number with:

ESD - Emergency / TSD - AutoTest / DSD ▲ - Scanlight AT e.g. ESD 15170L etc.

Emergency, AutoTest and Scanlight AT versions add 0.7kg to weights listed or 0.3kg for LED versions

▲ LED versions only

Web Link: Smart System







IP44 LAMP SECTION IP42 LAMP SECTION (SMART) IP20 GEAR SECTION



**SPECIFICATION**

- 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 gasketted
- Fitted with 4000K or 6500K lamps / 4000K or 6500K LEDs



Smart version

**LED CHARACTERISTICS**

Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/CW
80+	4000 6500	60K	P	>85	R	>0.9	81.1

For LED characteristics explanation see [www.thorlux.com/led-characteristics](http://www.thorlux.com/led-characteristics)

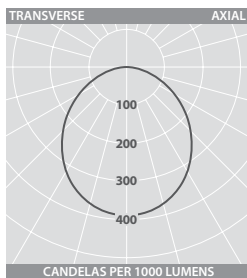
**ACCESSORIES**

DESCRIPTION	CAT. No.
Optional side arm suspension kit - Lamp version ▲	<b>HI 12349</b>
Optional side arm suspension kit - LED version ▲	<b>XL 11138</b>

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

**PHOTOMETRIC GUIDE**

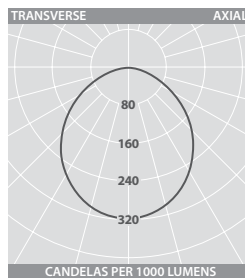
**LED**



Luminaire Lumen Output  
30W = 2840lm  
43W = 3950lm

**3 x 13W T5 ECO**

L.O.R. 85%



Factor:  
4 x 13W T5 ECO = 0.97  
4 x 20W T5 ECO = 0.93

**RANGE**

	NOMINAL SIZE (mm)	LAMP	CAT. No.	APPROX. kg	CIRCUIT
SMART	600 x 600	30W LED 4000K	<b>PU 15165D</b>	6.9	
		30W LED 6500K	<b>PU 15164D</b>	6.9	
		43W LED 4000K	<b>PU 15167D</b>	6.9	
		43W LED 6500K	<b>PU 15166D</b>	6.9	
		3 x 13W T5 ECO 4000K	<b>PU 14724D</b>	5.9	
		3 x 13W T5 ECO 6500K	<b>PU 14730D</b>	5.9	
		4 x 13W T5 ECO 4000K	<b>PU 14725D</b>	5.9	
		4 x 13W T5 ECO 6500K	<b>PU 14731D</b>	5.9	
		4 x 20W T5 ECO 4000K	<b>PU 14726D</b>	5.9	
		4 x 20W T5 ECO 6500K	<b>PU 14732D</b>	5.9	
STANDARD	600 x 600	30W LED 4000K	<b>PU 15161</b>	6.7	L/A
		30W LED 6500K	<b>PU 15160</b>	6.7	L/A
		43W LED 4000K	<b>PU 15163</b>	6.7	L/A
		43W LED 6500K	<b>PU 15162</b>	6.7	L/A
		3 x 13W T5 ECO 4000K	<b>PU 14721</b>	5.8	J/D/T
		3 x 13W T5 ECO 6500K	<b>PU 14727</b>	5.8	J/D/T
		4 x 13W T5 ECO 4000K	<b>PU 14722</b>	5.8	J/D/T
		4 x 13W T5 ECO 6500K	<b>PU 14728</b>	5.8	J/D/T
		4 x 20W T5 ECO 4000K	<b>PU 14723</b>	5.8	J/D/T
		4 x 20W T5 ECO 6500K	<b>PU 14729</b>	5.8	J/D/T

**CIRCUIT TYPE** - suffix catalogue number with:

**J** - non-dimming (HF fluorescent) / **L** - non-dimming (LED) / **D** - dimming (1-10V) / **T** - dimming (DSI) / **A** - dimming (DALI) e.g. **PU 15160L** etc. Smart versions use digital dimming gear and are always suffixed **D**

**EMERGENCY VERSION** - prefix catalogue number with:

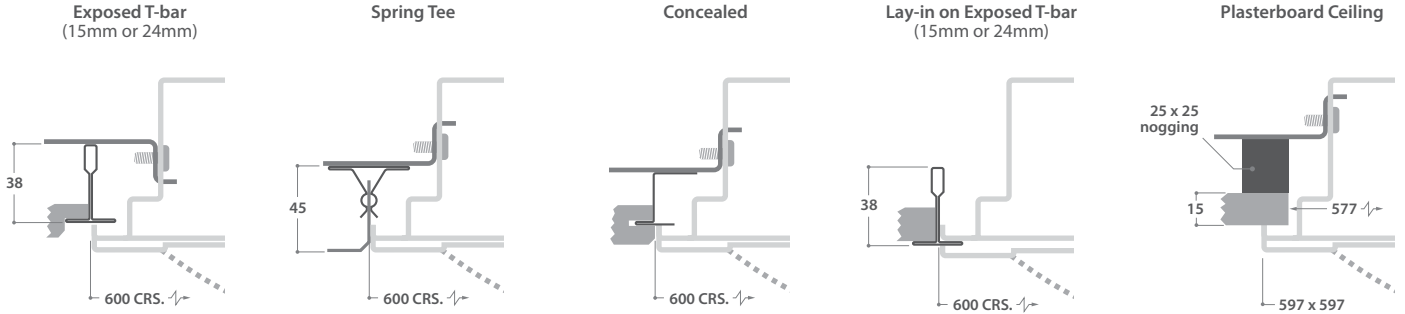
**EPU** - Emergency / **TPU** - AutoTest / **DPU ▲** - Scanlight AT e.g. **EPU 15160L** etc. Emergency, AutoTest and Scanlight AT versions add 0.7kg to weights listed or 0.3kg for LED versions

▲ LED versions only

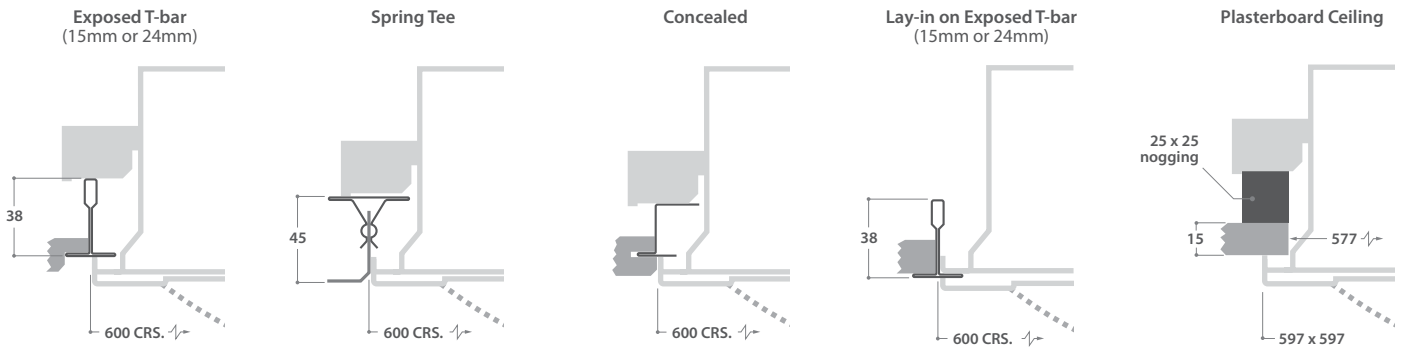
Web Link: Smart System

## MOUNTING ARRANGEMENTS - Sky-Dome / Plateau

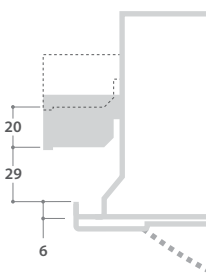
### LED Version



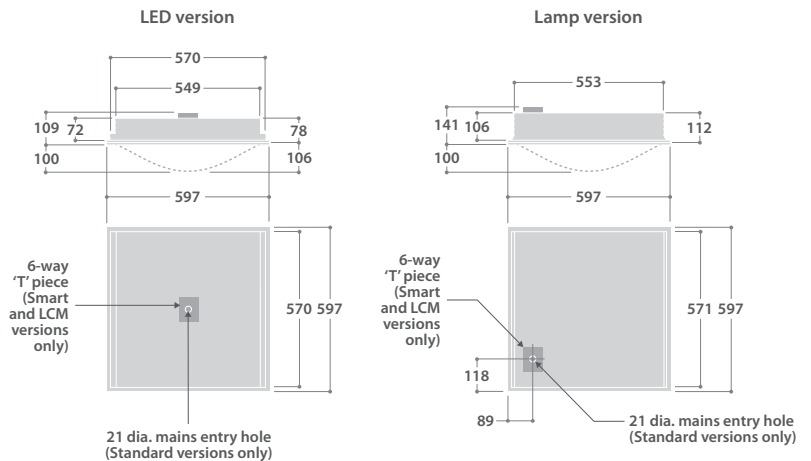
### Lamp Version



### Side arm suspension adjustment range



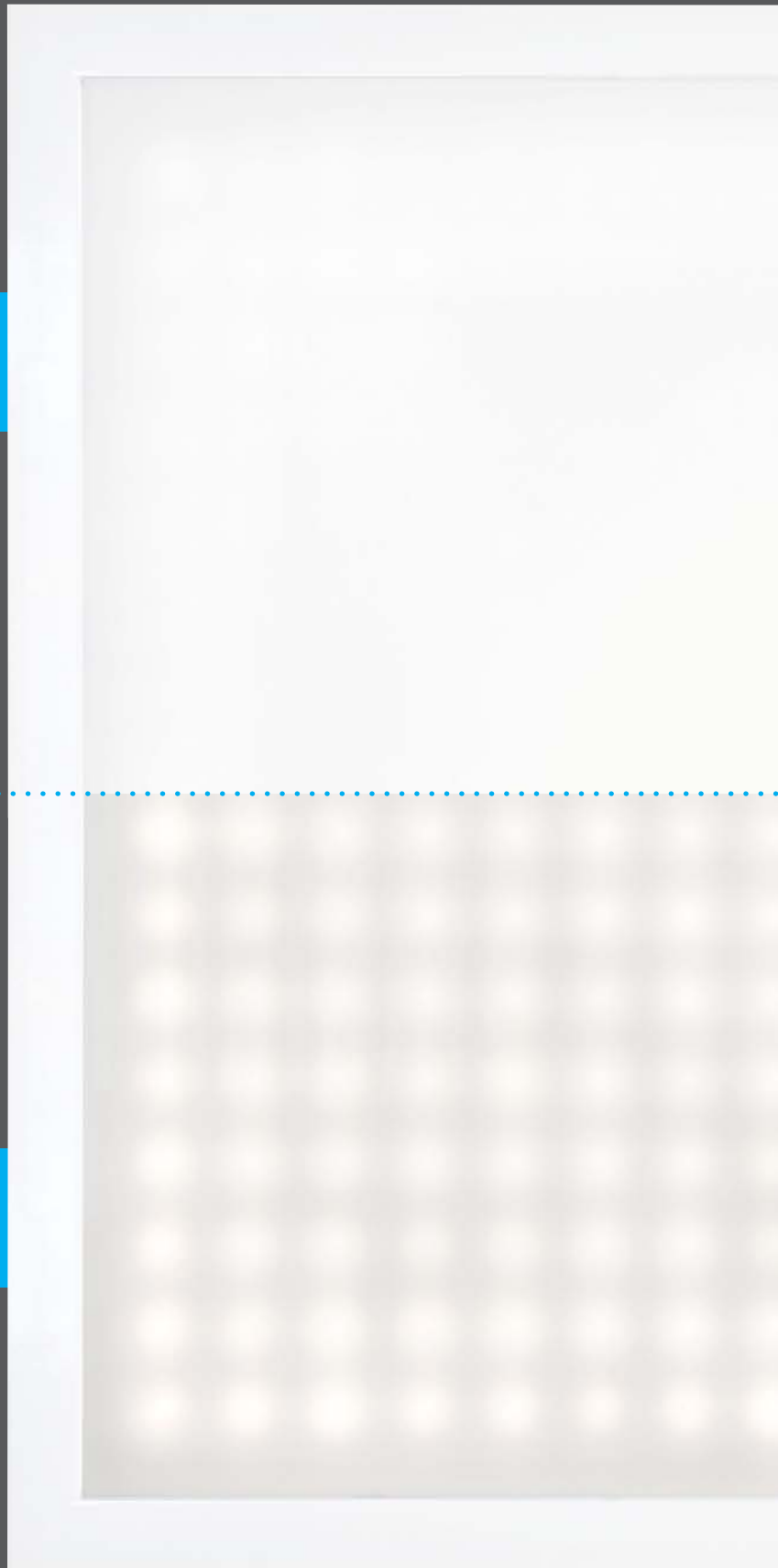
## DIMENSIONS - Sky-Dome / Plateau



SKY-DOME

LED  
Light Diffusion

PLATEAU



# XL-FIVE









# XL-FIVE

High Efficiency Louvre

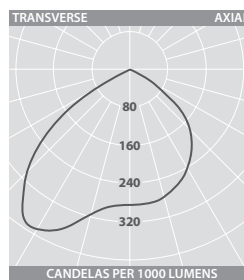
## PERFORMANCE GUIDE

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

	LAMP	SPACING (Metres)	LUX AVERAGE 70/50/20	LUX AVERAGE 80/60/30
LG7:2005	2 x 14W T5	3.0 x 2.4	285	320
		2.4 x 2.4	340	380
	3 x 14W T5	3.0 x 2.4	410	460
		2.4 x 2.4	490	550
4 x 14W T5	3.0 x 2.4	505	560	
	2.4 x 2.4	605	680	
FACETED CROSSBLADE	2 x 14W T5	3.0 x 2.4	250	280
		2.4 x 2.4	300	340
	3 x 14W T5	3.0 x 2.4	380	420
		2.4 x 2.4	450	510
4 x 14W T5	3.0 x 2.4	500	560	
	2.4 x 2.4	600	680	

## PHOTOMETRIC GUIDE

**2 x 14W T5  
LG7:2005 LOUVRE**  
D.L.O.R. 86%



Factor:  
3 LAMP = 0.95  
4 LAMP = 0.98

**2 x 14W T5  
FACETED CROSSBLADE**  
D.L.O.R. 80%



Factor:  
3 LAMP = 0.99  
4 LAMP = 1.01



**SPECIFICATION**

- Steel body finished full polyester, non-yellowing white
- Louvres - vibrant appearance, 94% reflectivity - finger mark resistant
- LG7:2005 types <1500 cd/m<sup>2</sup> @ 65° or faceted crossblade
- Perforated canopy creates soft modelling with a measure of upward light
- Shallow body depth, 65mm
- Air-handling versions
- Supplied with side arm suspension kit
- Standard range - lamps must be ordered separately

**Smart Range**

- Lay-in or pull-up using side arm suspension kit (order separately see below)
- 'Peel-off' film protects louvre and canopy during installation
- Fitted with 3500K lamps



Smart version

**ACCESSORIES**

DESCRIPTION	CAT. No.
Optional side arm suspension kit - <i>Smart version</i> ▲	<b>XL 11138</b>

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

**RANGE**

	NOMINAL SIZE (mm)	LAMP	LG7:2005 VERSION	FACETED CROSSBLADE VERSION	APPROX. kg	CIRCUIT
<b>SMART</b>	<b>Non air-handling versions</b>					
	600 x 600	3 x 14W T5	<b>XL 11012D</b>	<b>XL 11014D</b>	6.7	
		4 x 14W T5	<b>XL 10776D</b>	<b>XL 11017D</b>	6.7	
	<b>Air-handling versions</b>					
600 x 600	3 x 14W T5	<b>XL 11011D</b>	<b>XL 11013D</b>	6.7		
	4 x 14W T5	<b>XL 11015D</b>	<b>XL 11016D</b>	6.7		
<b>STANDARD</b>	<b>Non air-handling versions</b>					
	600 x 600	2 x 14W T5	<b>XL 10133</b>	<b>XL 11056</b>	6.3	J/D/T
		3 x 14W T5	<b>XL 10134</b>	<b>XL 11057</b>	6.6	J/D/T
		4 x 14W T5	<b>XL 10135</b>	<b>XL 11058</b>	6.6	J/D/T
	<b>Air-handling versions</b>					
	600 x 600	3 x 14W T5	<b>XL 10137</b>	<b>XL 11060</b>	6.6	J/D/T
4 x 14W T5		<b>XL 10138</b>	<b>XL 11061</b>	6.6	J/D/T	

**CIRCUIT TYPE** - suffix catalogue number with:  
**J** - non-dimming (HF fluorescent) / **D** - dimming (1-10V) / **T** - dimming (DSI) e.g. **XL 10133J** etc.  
 Smart versions use digital dimming gear and are always suffixed **D**

**EMERGENCY VERSION** - prefix catalogue number with:  
**EXL** - Emergency / **TXL** - AutoTest e.g. **EXL 10133J** etc.  
 Emergency and AutoTest versions add 0.7kg to weights listed

**STANDARD RANGE** - lamps must be ordered separately

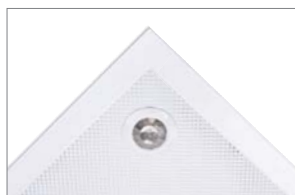


## SPECIFICATION

- 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
- LED versions fitted with 6500K LEDs
- Standard range - lamps must be ordered separately

## Smart Range

- Supplied with side arm suspension kit
- Fitted with 6500K lamps or 6500K LEDs



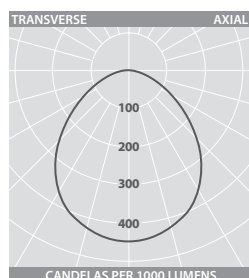
Smart version

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

For LED characteristics explanation see [www.thorlux.com/led-characteristics](http://www.thorlux.com/led-characteristics)

## PHOTOMETRIC GUIDE

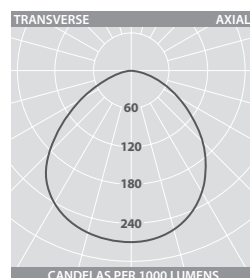
### LED



Luminaire Lumen Output  
30W = 2850lm  
43W = 4040lm

### 4 x 14W T5

D.L.O.R. 69%



## RANGE

	NOMINAL SIZE (mm)	LAMP	CAT. No.	APPROX. kg	CIRCUIT
SMART	600 x 600	30W LED	<b>XL 15188D</b>	7.5	
		43W LED	<b>XL 15189D</b>	7.5	
		4 x 14W T5	<b>XL 11568D</b>	7.7	
STANDARD	600 x 600	30W LED	<b>XL 15186</b>	7.3	L/A
		43W LED	<b>XL 15187</b>	7.3	L/A
		4 x 14W T5	<b>XL 10452</b>	7.6	J/D/T

CIRCUIT TYPE - suffix catalogue number with:

**J** - non-dimming (HF fluorescent) / **L** - non-dimming (LED) / **D** - dimming (1-10V) / **T** - dimming (DSI) / **A** - dimming (DALI) e.g. **XL 15186L** etc.  
Smart versions use digital dimming gear and are always suffixed **D**

EMERGENCY VERSION - prefix catalogue number with:

**EXL** - Emergency / **TXL** - AutoTest / **DXL** - Scanlight AT e.g. **EXL 15186L** etc.  
Emergency, AutoTest and Scanlight AT versions add 0.7kg to weights listed or 0.3kg for LED versions

**NOTE: 6500k 'daylight' lamps are recommended**

**STANDARD RANGE** - lamps must be ordered separately

Web Link: Smart System





**SPECIFICATION**

- Steel body finished full polyester, non-yellowing white
- Flat polycarbonate prismatic controller
- Shallow body depth
- Supplied with side arm suspension kit
- LED versions fitted with 4000K LEDs
- Standard range - lamps must be ordered separately

**Smart Range**

- Supplied with side arm suspension kit
- Fitted with 3500K lamps or 4000K LEDs



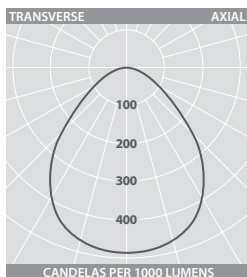
Smart version

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

For LED characteristics explanation see [www.thorlux.com/led-characteristics](http://www.thorlux.com/led-characteristics)

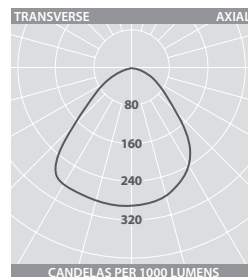
**PHOTOMETRIC GUIDE**

**LED**



Luminaire Lumen Output  
30W = 3050lm  
43W = 4400lm

**3 x 14W T5**  
D.L.O.R. 68%



Factor:  
4 Lamp = 0.97

**RANGE**

	NOMINAL SIZE (mm)	LAMP	CAT. No.	APPROX. kg	CIRCUIT
<b>SMART</b>	600 x 600	30W LED	<b>XL 15184D</b>	6.5	
		43W LED	<b>XL 15185D</b>	6.5	
		4 x 14W T5	<b>XL 11941D</b>	5.1	
<b>STANDARD</b>	600 x 600	30W LED	<b>XL 15182</b>	6.3	L/A
		43W LED	<b>XL 15183</b>	6.3	L/A
		3 x 14W T5	<b>XL 11263</b>	5.0	J/D/T
		4 x 14W T5	<b>XL 11262</b>	5.0	J/D/T

**CIRCUIT TYPE** - suffix catalogue number with:

**J** - non-dimming (HF fluorescent) / **L** - non-dimming (LED) / **D** - dimming (1-10V) / **T** - dimming (DSI) / **A** - dimming (DALI) e.g. **XL 15182L** etc.  
Smart versions use digital dimming gear and are always suffixed **D**

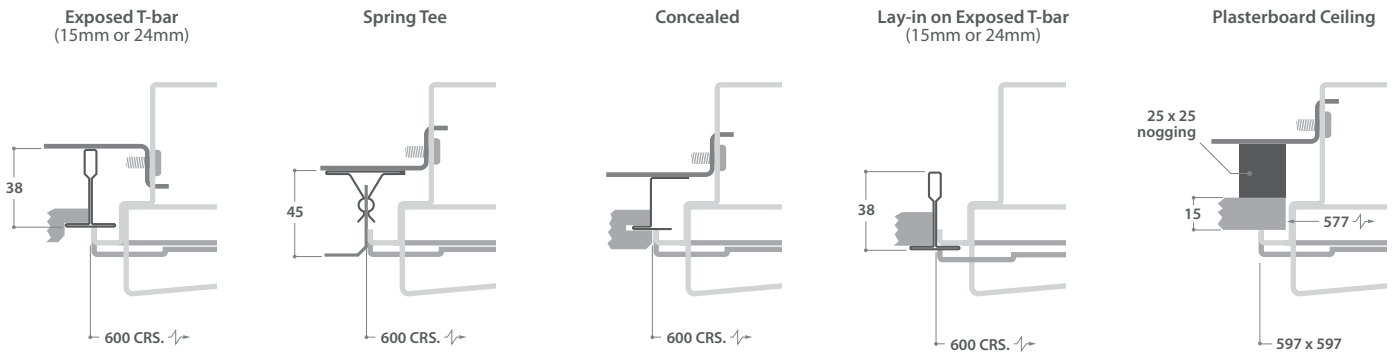
**EMERGENCY VERSION** - prefix catalogue number with:

**EXL** - Emergency / **TXL** - AutoTest / **DXL** - Scanlight AT e.g. **EXL 15182L** etc.  
Emergency, AutoTest and Scanlight AT versions add 0.7kg to weights listed or 0.3kg for LED versions

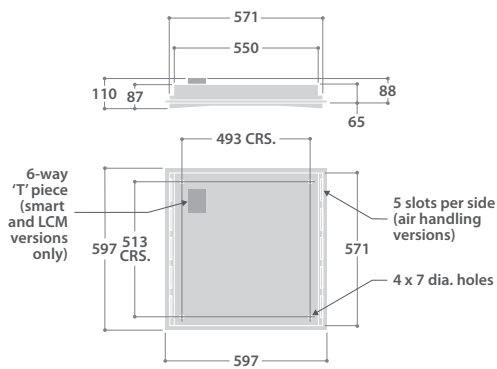
**STANDARD RANGE** - lamps must be ordered separately

Web Link: [Smart System](#)

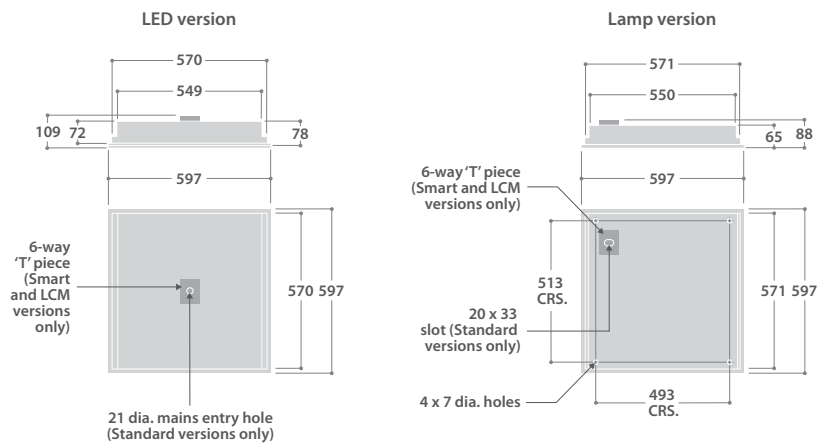
## MOUNTING ARRANGEMENTS - XL-Five / XL-Five Daylite / Prismatic



## DIMENSIONS - XL-Five



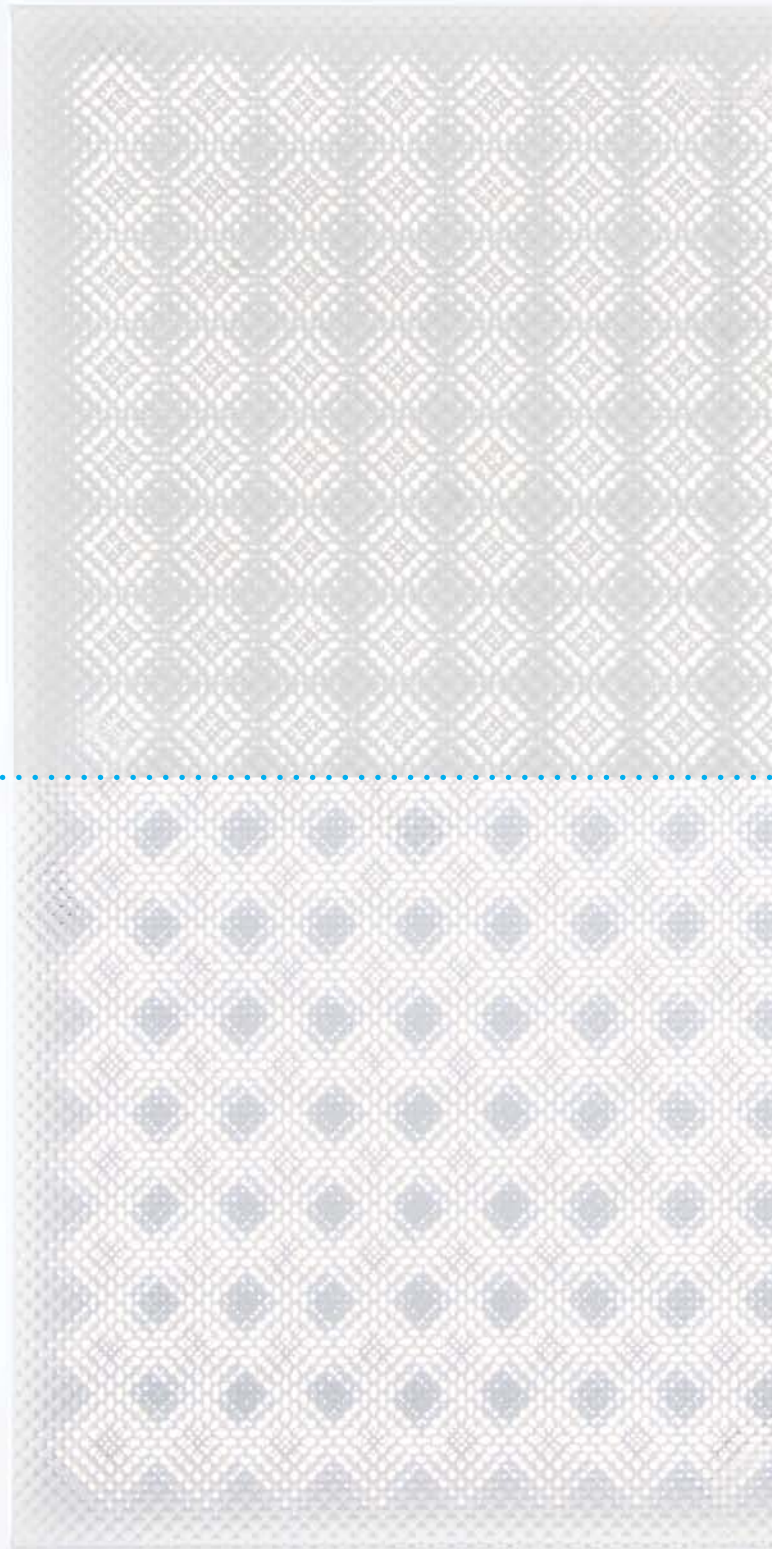
## DIMENSIONS - XL-Five Daylite / Prismatic



XL-FIVE Daylite

LED  
Light Diffusion

XL-FIVE Prismatic



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The highly successful Hi-Style range has been enhanced by the introduction of T5 lamp technology and associated improvements to its already market-leading optical performance.

Light output ratios of up to 98% ensure lighting schemes use the minimum amount of energy whilst complying with latest legislation.

Improvements in the phosphor technology of T5 lamps mean that up to 10% more light per watt is produced (up to 114 lumens per watt). Changes in gas pressure within the lamp optimise performance introducing a luminaire thermal efficiency gain. Average lamp life is now extended to 30,000 hours for typical switching regimes and maintenance cycles can therefore be extended by up to 50% when compared to existing TC-L versions.

New louvres, with individual lamp chambers, utilise extremely high reflectivity modern aluminium material which is finger print resistant and vibrant in appearance.

All versions use A2 BAT (Best Available Technology) high frequency control gear which minimises energy losses. As a result, Hi-Style Pro, Glo and Plus versions comply with the most stringent UK Building Regulations Part L and are also eligible for tax rebate under the ECA scheme.

These enhancements offer the lighting specifier/designer the opportunity to harness all the latest technology available to produce the best lit, most energy efficient installations possible.





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## FEATURES & SPECIFICATION

- Steel body is zinc plated finished full polyester satin white (RAL 9016)
- Shallow body depth, 106mm (135mm Smart or LCM versions)
- Hi-Style luminaires project no more than 49mm below ceiling
- Suitable for most ceiling types; lay-in or pull-up with optional side arm suspensions
- Carefully controlled optics including those required for LG7:2005 (<math><1500\text{ cd/m}^2 @ 65^\circ</math>) compliance
- Highly efficient optics with LOR's of up to 98%
- Wide distribution avoids harsh contrasts
- Glass-like trim and secondary optics
- Available with T-piece connector for quick installation
- Louvres - vibrant appearance, zero iridescence, 94% reflectivity. Surface coating technology is finger mark resistant
- Smart versions - with intelligent lighting control (See Figures 1 and 2)
- 'Glo-glass' and 'Plus-glass' panels, are UV stabilised, fire retardant polycarbonate
- Performance figures are based on Philips T5 ECO lamps
- Fitted with the latest generation T5 ECO lamps



Figure 1 - Basket mounted Smart Micro-pod



Figure 2 - Louvre mounted Smart Micro-pod

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Figure 1 - Basket mounted Smart Micro-pod



Figure 2 - Louvre mounted Smart Micro-pod



### SPECIFICATION

- Steel body finished full polyester satin white (RAL 9016)
- Broad distribution provides excellent illumination of corridors and circulation areas with good vertical illumination of upper walls
- High uniformity luminance at all angles gives a low brightness effect
- Body depth 106mm
- Fitted with 4000K lamp(s)

### 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.

	LAMP	SPACING (Metres)	LUX AVERAGE 70/50/20	LUX AVERAGE 80/60/30
OPEN PLAN	2 x 20W T5 ECO	3.0 x 2.4	270	310
		2.4 x 2.4	330	380
	3 x 20W T5 ECO	3.0 x 2.4	350	400
		2.4 x 2.4	430	480
	1 x 55W TC-L	3.0 x 2.4	300	350
		2.4 x 2.4	370	420
2 x 55W TC-L	3.0 x 2.4	520	590	
	2.4 x 2.4	620	710	
1 x 80W TC-L	3.0 x 2.4	350	400	
	2.4 x 2.4	420	480	
CORRIDOR	2 x 20W T5 ECO	5.4	100	120
	3 x 20W T5 ECO	5.4	130	160
	1 x 55W TC-L	5.4	110	130
	2 x 55W TC-L	5.4	190	220
	1 x 80W TC-L	5.4	130	150

### RANGE

	NOMINAL SIZE (mm)	LAMP	CAT. No.	APPROX. kg	CIRCUIT
SMART	600 x 600	2 x 20W T5 ECO	<b>HI 14765D</b>	5.4	
		3 x 20W T5 ECO	<b>HI 14766D</b>	5.5	
		1 x 55W TC-L	<b>HI 12295D</b>	5.3	
		2 x 55W TC-L	<b>HI 12594D</b>	5.4	
		1 x 80W TC-L	<b>HI 12296D</b>	5.3	
STANDARD	600 x 600	2 x 20W T5 ECO	<b>HI 14763</b>	5.3	J/D/T
		3 x 20W T5 ECO	<b>HI 14764</b>	5.4	J/D/T
		1 x 55W TC-L	<b>HI 12292</b>	5.2	J/D/T
		2 x 55W TC-L	<b>HI 12563</b>	5.3	J/D/T
		1 x 80W TC-L	<b>HI 12293</b>	5.2	J/D/T

CIRCUIT TYPE - suffix catalogue number with:

**J** - non-dimming (HF fluorescent) / **D** - dimming (1-10V) / **T** - dimming (DSI) e.g. **HI 14763J** etc.

Smart versions use digital dimming gear and are always suffixed **D**

EMERGENCY VERSION - prefix catalogue number with:

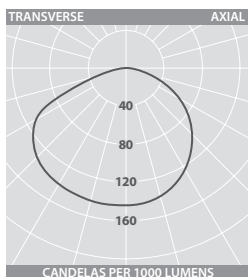
**EHI** - Emergency / **THI** - AutoTest e.g. **EHI 14763J** etc.

Emergency and AutoTest versions add 0.7kg to weights listed

### PHOTOMETRIC GUIDE

#### 1 LAMP - 55W TC-L

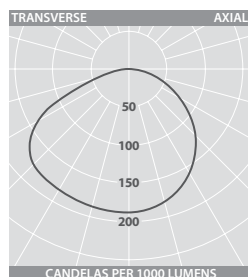
D.L.O.R. 50%



Factor:  
2 x 55W = 0.86  
1 x 80W = 0.97

#### 2 LAMP - 20W T5 ECO

D.L.O.R. 64%



Factor:  
3 x 20W T5 ECO = 0.86

### ACCESSORIES

DESCRIPTION	CAT. No.
Optional side arm suspension kit ▲	<b>HI 12349</b>

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

Web Link: Smart System



**SPECIFICATION**

- Steel body finished full polyester satin white (RAL 9016)
- Excellent illumination of corridors and circulation areas with good vertical illumination of upper walls
- High uniformity luminance at all angles giving a low brightness effect
- Broad distribution achieved with anodised aluminium reflector
- Body depth 106mm
- Fitted with 4000K lamp(s)



**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.

	LAMP	SPACING (Metres)	LUX AVERAGE 70/50/20	LUX AVERAGE 80/60/30
OPEN PLAN	2 x 20W T5 ECO	3.0 x 2.4	200	230
		2.4 x 2.4	240	290
	3 x 20W T5 ECO	3.0 x 2.4	280	320
		2.4 x 2.4	340	380
1 x 55W TC-L	3.0 x 2.4	230	270	
	2.4 x 2.4	280	320	
1 x 80W TC-L	3.0 x 2.4	250	290	
	2.4 x 2.4	310	350	
CORRIDOR	2 x 20W T5 ECO	5.4	70	90
	3 x 20W T5 ECO	5.4	100	130
	1 x 55W TC-L	5.4	90	100
	1 x 80W TC-L	5.4	100	110

**RANGE**

	NOMINAL SIZE (mm)	LAMP	CAT. No.	APPROX. kg	CIRCUIT
SMART	600 x 600	2 x 20W T5 ECO	HI 14769D	5.8	
		3 x 20W T5 ECO	HI 14770D	5.9	
		1 x 55W TC-L	HI 12301D	5.7	
		1 x 80W TC-L	HI 12302D	5.7	
STANDARD	600 x 600	2 x 20W T5 ECO	HI 14767	5.7	J/D/T
		3 x 20W T5 ECO	HI 14768	5.8	J/D/T
		1 x 55W TC-L	HI 12298	5.6	J/D/T
		1 x 80W TC-L	HI 12299	5.6	J/D/T

CIRCUIT TYPE - suffix catalogue number with:

J - non-dimming (HF fluorescent) / D - dimming (1-10V) / T - dimming (DSI) e.g. HI 14767J etc. Smart versions use digital dimming gear and are always suffixed D

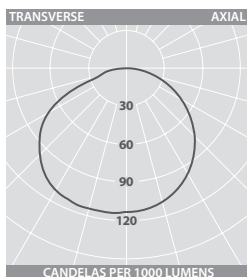
EMERGENCY VERSION - prefix catalogue number with:

EHI - Emergency / THI - AutoTest e.g. EHI 14767J etc. Emergency and AutoTest versions add 0.7kg to weights listed

**PHOTOMETRIC GUIDE**

**1 LAMP - 55W TC-L**

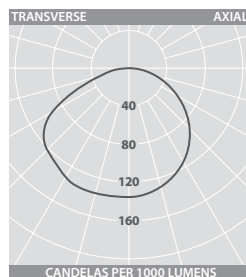
D.L.O.R. 50%



Factor:  
1 x 80W = 0.87

**2 LAMP - 20W T5 ECO**

D.L.O.R. 47%



Factor:  
3 x 20W T5 ECO = 0.94

**ACCESSORIES**

DESCRIPTION	CAT. No.
Optional side arm suspension kit ▲	HI 12349

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

Web Link: Smart System



# Prescriptions









**SPECIFICATION**

- Steel body finished full polyester satin white (RAL 9016)
- High performance with light output ratio up to 96%
- 'Plus-glass' wings give upward light contributing to ceiling illumination
- 'Glo-glass' side baffles give low glare yet vibrant glass-like appearance
- Anodised zero iridescence louvre
- LG7:2005 (<1500 cd/m<sup>2</sup> @ 65°)
- Excellent wall illumination at high angles
- Balanced direct/indirect luminance control above 65°
- Body depth 106mm
- Fitted with 4000K lamp(s)



**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.

	LAMP	SPACING (Metres)	LUX AVERAGE 70/50/20	LUX AVERAGE 80/60/30
OPEN PLAN	2 x 13W T5 ECO	3.0 x 2.4	310	350
		2.4 x 2.4	370	420
	2 x 20W T5 ECO	3.0 x 2.4	420	470
		2.4 x 2.4	500	570
	1 x 40W TC-L	3.0 x 2.4	350	400
		2.4 x 2.4	430	480
1 x 55W TC-L	3.0 x 2.4	420	480	
	2.4 x 2.4	510	570	

**RANGE**

	NOMINAL SIZE (mm)	LAMP	CAT. No.	APPROX. kg	CIRCUIT
SMART	600 x 600	2 x 13W T5 ECO	HI 14781D	6.5	
		2 x 20W T5 ECO	HI 14782D	6.5	
		1 x 40W TC-L	HI 12337D	6.4	
		1 x 55W TC-L	HI 12338D	6.4	
STANDARD	600 x 600	2 x 13W T5 ECO	HI 14779	6.4	J/D/T
		2 x 20W T5 ECO	HI 14780	6.4	J/D/T
		1 x 40W TC-L	HI 12333	6.3	J/D/T
		1 x 55W TC-L	HI 12334	6.3	J/D/T

CIRCUIT TYPE - suffix catalogue number with:

**J** - non-dimming (HF fluorescent) / **D** - dimming (1-10V) / **T** - dimming (DSI) e.g. HI 14779J etc. Smart versions use digital dimming gear and are always suffixed D

EMERGENCY VERSION - prefix catalogue number with:

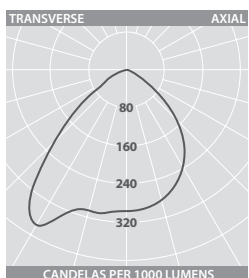
**EHI** - Emergency / **THI** - AutoTest e.g. EHI 14779J etc.

Emergency and AutoTest versions add 0.7kg to weights listed

**PHOTOMETRIC GUIDE**

**1 LAMP - 40W TC-L**

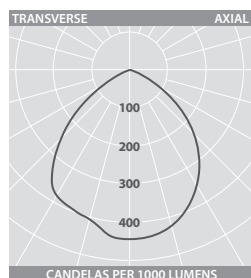
D.L.O.R. 75% U.L.O.R. 0.8%



D.L.O.R. Factor:  
1 x 55W = 0.87

**2 LAMP - 13W T5 ECO**

D.L.O.R. 95% U.L.O.R. 1%



D.L.O.R. Factor:  
2 x 20W T5 ECO = 0.97

**ACCESSORIES**

DESCRIPTION	CAT. No.
Optional side arm suspension kit ▲	HI 12349

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



**SPECIFICATION**

- Steel body finished full polyester satin white (RAL 9016)
- Polarising 'Daylite' panel with perforated satin white side baffles
- Wide vertical illumination with soft modelling
- Excellent wall illumination at high angles
- High uniform illuminance at all angles give low brightness effect
- Body depth 106mm
- Fitted with 6500K lamp(s)



**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.

	LAMP	SPACING (Metres)	LUX AVERAGE	
			70/50/20	80/60/30
OPEN PLAN	1 x 55W TC-L	3.0 x 2.4	330	370
		2.4 x 2.4	400	450
		1.8 x 2.4	530	600
	2 x 40W TC-L	3.0 x 2.4	440	500
		2.4 x 2.4	540	610
		1.8 x 2.4	720	800

**RANGE**

NOMINAL SIZE (mm)	LAMP	CAT. No.	APPROX. kg	CIRCUIT
600 x 600	1 x 55W TC-L	<b>HI 12996</b>	5.9	J/D/T
	2 x 40W TC-L	<b>HI 12997</b>	5.9	J/D/T

CIRCUIT TYPE - suffix catalogue number with:

**J** - non-dimming (HF fluorescent) / **D** - dimming (1-10V) / **T** - dimming (DSI) e.g. **HI 12996J** etc.

EMERGENCY VERSION - prefix catalogue number with:

**EHI** - Emergency / **THI** - AutoTest e.g. **EHI 12996J** etc.

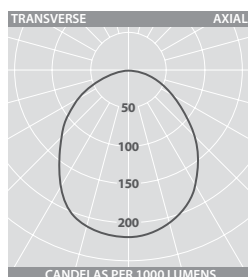
Emergency and AutoTest versions add 0.7kg to weights listed

**NOTE: 6500k 'daylight' lamps are recommended**

**PHOTOMETRIC GUIDE**

**1 LAMP - 55W TC-L**

D.L.O.R. 55%



Factor:  
2 x 40W = 0.93

**ACCESSORIES**

DESCRIPTION	CAT. No.
Optional side arm suspension kit ▲	<b>HI 12349</b>

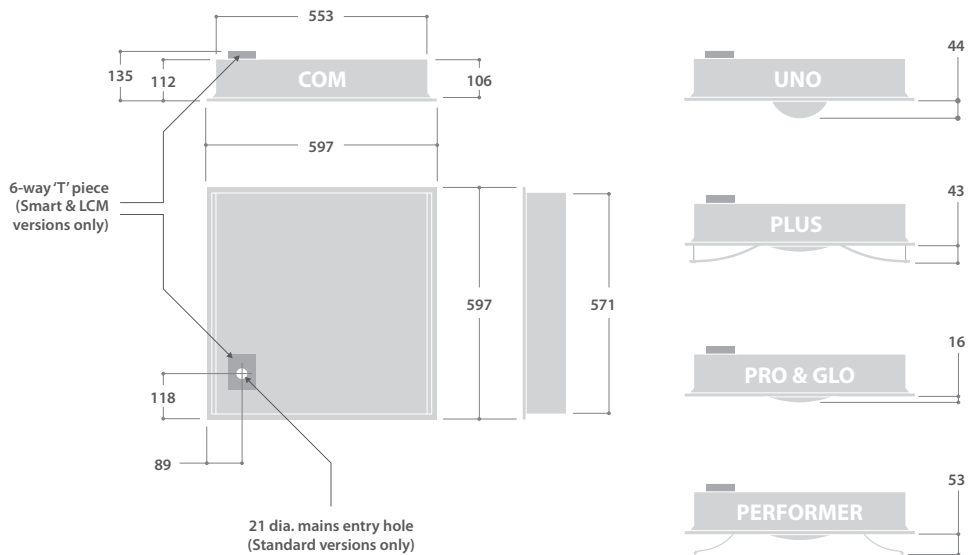
▲ 4 arms per kit - not required for lay-in mounting



# HI-STYLE

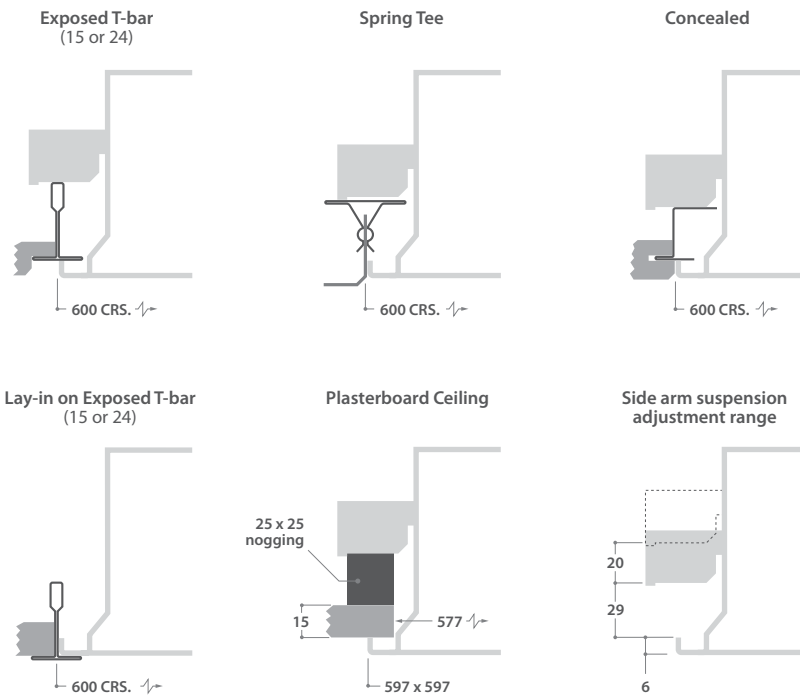
## DIMENSIONS & MOUNTING ARRANGEMENTS

### DIMENSIONS





## MOUNTING ARRANGEMENTS







**SPECIFICATION**

- Steel body finished full polyester satin white (RAL9016)
- Supremely efficient 93% LOR
- Vibrant appearance louvre made from high reflectivity Miro 5 silver aluminium
- PETg side diffusers
- Lay-in. Pull-up using "Lumafix®" side arm suspension kit (order separately, see below)
- Fitted with 4000K lamp



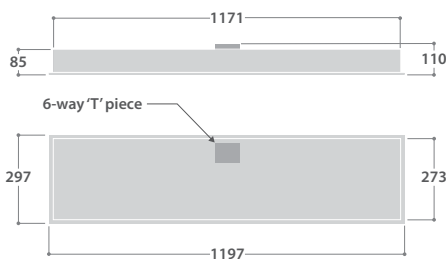
Smart Micro-Pod in louvre

**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.

	LAMP	SPACING (Metres)	LUX AVERAGE 70/50/20	LUX AVERAGE 80/60/30
<b>OPEN PLAN</b>	1 x 25W T5 ECO	2.4 x 3.0	300	330
		1.8 x 3.0	370	420
		2.4 x 2.4	350	400
		1.8 x 2.4	450	500

**DIMENSIONS**



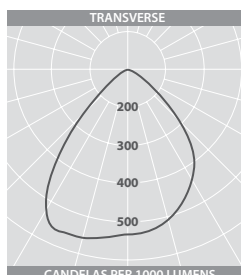
**RANGE**

	NOMINAL SIZE (mm)	LAMP	CAT. No.	APPROX. kg	CIRCUIT
<b>SMART</b>	300 x 1200	1 x 25W T5 ECO	<b>SF 14619D</b>	7.2	
<b>STANDARD</b>	300 x 1200	1 x 25W T5 ECO	<b>SF 14618</b>	7.1	J/T

**CIRCUIT TYPE** - suffix catalogue number with:  
**J** - non-dimming (HF fluorescent) / **T** - dimming (DSI) e.g. **SF 14618J** etc.  
 Smart versions use digital dimming gear and are always suffixed **D**

**PHOTOMETRIC GUIDE**

1 x 25W T5 ECO  
 D.L.O.R. 93%



**ACCESSORIES**

DESCRIPTION	CAT. No.
Optional side arm suspension kit ▲	<b>SF 14940</b>

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

Web Link: Smart System

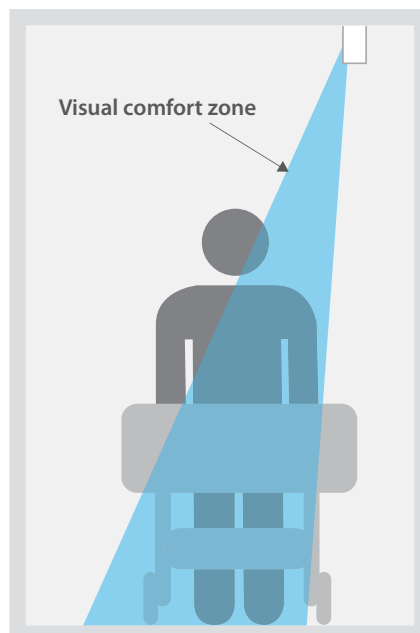




Lighting for hospital corridors must be given due care and attention. It is important to illuminate these spaces correctly paying particular attention to trolley borne patients who are susceptible to discomfort glare from the light fittings.

The Paleta range of luminaires has been specifically designed to provide a 'visual comfort zone' when mounted in an off centre position. This is achieved by reducing the luminaire's intensity at critical viewing angles whilst not affecting the ability of the luminaire to illuminate the space.

Sideways light distribution is maximised to ensure walls on both sides of the corridor receive direct light along with direct illumination of the ceiling further reducing the probability of glare.





**SPECIFICATION**

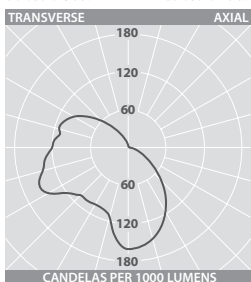
- Steel body finished full polyester, non-yellowing white
- Complies with the CIBSE 2008 Hospital Lighting Guide (LG2)
- Ultra slim styling
- Small surface area and internal linear prisms assists cleaning and infection control
- Semi-recessed minimises recessing depth
- Highly efficient prismatic polycarbonate controller
- Specifically designed to provide a "visual comfort zone"
- Suitable for central or off centre mounting
- Fitted with 4000K lamp



**PHOTOMETRIC GUIDE**

**1 LAMP - 14W T5**

D.L.O.R. 56% U.L.O.R. 29%



Factor:  
 1 x 24W T5 = 0.98  
 1 x 28W T5 = 0.91  
 1 x 54W T5 = 0.89

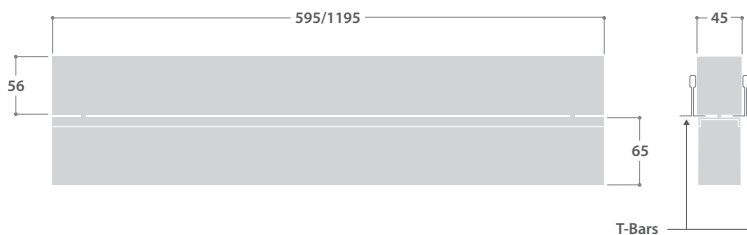
**RANGE**

NOMINAL SIZE (mm)	LAMP	CAT. No.	APPROX. kg	CIRCUIT
600	1 x 14W T5	<b>PA 14456</b>	1.8	J/D
	1 x 24W T5	<b>PA 14457</b>	1.8	J/D
1200	1 x 28W T5 ▲	<b>PA 14458</b>	3.3	J/D
	1 x 54W T5 ▲	<b>PA 14649</b>	3.3	J/D

**CIRCUIT TYPE** - suffix catalogue number with:  
**J** - non-dimming (HF fluorescent) / **D** - dimming (1-10V) e.g. **PA 14456J** etc.

▲ **EMERGENCY VERSION** - prefix catalogue number with:  
**EPA** - Emergency / **TPA** - AutoTest e.g. **EPA 14458J** etc.  
 Emergency and AutoTest versions add 0.7kg to weights listed

**DIMENSIONS**



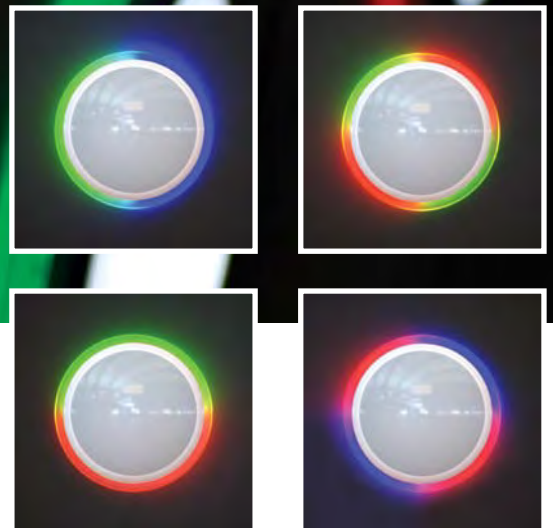
Web Link: Smart System



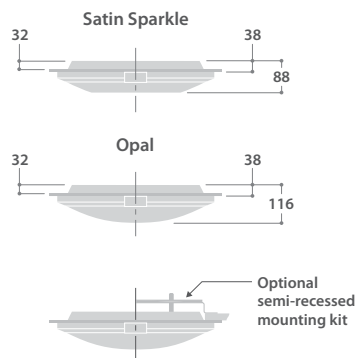
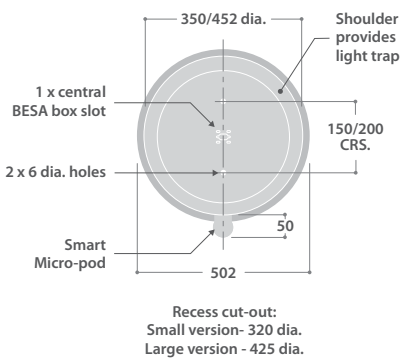
## SURFACE LIGHTING CATALOG

## LED HALO

The DOT LED 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.



## DIMENSIONS



## ACCESSORIES

DESCRIPTION	CAT. No.	APPROX. kg
Semi-recessed mounting kit - Small version	<b>DOT 10103</b>	0.27
Semi-recessed mounting kit - Large version	<b>DOT 9917</b>	0.32
Side entry conduit kit - Small version ▲	<b>DOT 11861</b>	0.3
Side entry conduit kit - Large version ▲	<b>DOT 11860</b>	0.37

▲ Not suitable for use with Halo versions





## SPECIFICATION

- 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)
- Emergency, AutoTest and Scanlight versions using integral 1.5W high power LED
- Main LED source has LED failure protection
- Smart versions with intelligent lighting control
- Fitted with 4000K LEDs

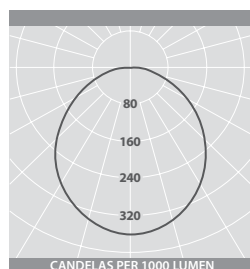


LED CHARACTERISTICS							
Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/CW
80+	4000	60K	P	>80	R	>0.95	Satin Sparkle - 72 Opal - 50

For LED characteristics explanation see [www.thorlux.com/led-characteristics](http://www.thorlux.com/led-characteristics)

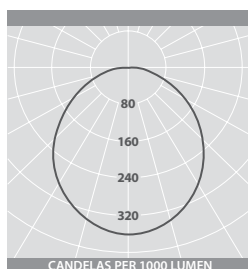
## PHOTOMETRIC GUIDE

### SATIN SPARKLE



Luminaire Lumen Output:  
20W = 1810lm

### OPAL



Luminaire Lumen Output:  
16W = 1000lm  
20W = 1250lm

## RANGE

	LED	STANDARD VERSION	APPROX. kg	WHITE LED HALO VERSION	RGB LED HALO VERSION	APPROX. kg	CIRCUIT
SMART	Large version - Satin Sparkle						
	20W	<b>DOT 14803D</b>	2.1	<b>DOT 14804D</b>	<b>DOT 14805D</b>	2.8	
SMART	Large version - Opal						
	20W	<b>DOT 14806D</b>	2.1	<b>DOT 14807D</b>	<b>DOT 14808D</b>	2.8	
STANDARD	Large version - Satin Sparkle						
	20W	<b>DOT 14794</b>	2.0	<b>DOT 14795</b>	<b>DOT 14796</b>	2.7	L/A
	Small version - Opal						
16W	<b>DOT 15169L</b>	1.4					
STANDARD	Large version - Opal						
	20W	<b>DOT 14797</b>	2.0	<b>DOT 14798</b>	<b>DOT 14799</b>	2.7	L/A

CIRCUIT TYPE - suffix catalogue number with:

**L** - non-dimming (LED) / **A** - dimming (DALI) e.g. **DOT 14794L** etc.

Smart versions use digital dimming gear and are always suffixed **D**

EMERGENCY VERSION - prefix catalogue number with:

**EDT** - Emergency / **TDT** - AutoTest / **DDT** - Scanlight AT e.g. **EDT 14794L** etc.

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



**SPECIFICATION**

- Spun aluminium body finished full polyester, non-yellowing white as standard (internal and external)
- Silver option
- Opal or high efficiency satin polycarbonate cover version with a measure or upward light
- Smart versions with intelligent lighting control
- Surface or semi-recessed mounting
- Fitted with 3500K lamp



Silver



Smart version



Opal diffuser



High efficiency satin diffuser

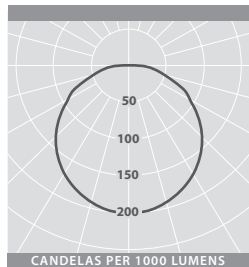
**ACCESSORIES**

DESCRIPTION	CAT. No.	APPROX. kg
Semi-recessed mounting kit - Small version	<b>DOT 10103</b>	0.27
Semi-recessed mounting kit - Large version	<b>DOT 9917</b>	0.32
Side entry conduit kit - Small version	<b>DOT 11861</b>	0.3
Side entry conduit kit - Large version	<b>DOT 11860</b>	0.37

**PHOTOMETRIC GUIDE**

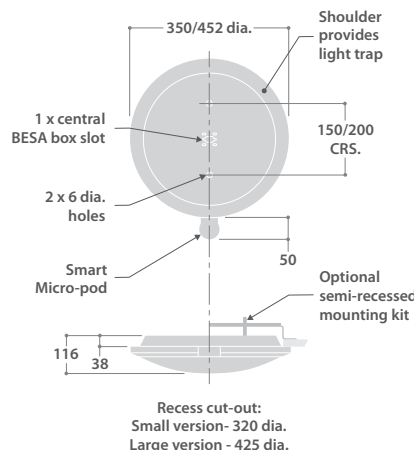
**38W 2D LAMP  
LARGE SATIN VERSION**

D.L.O.R. 62%



Factors:  
 28W Small Opal = 0.79  
 28W Satin = 0.98  
 28W Opal = 0.71  
 38W Opal = 0.69

**DIMENSIONS**



**RANGE**

	LAMP	CAT. No.	APPROX. kg	CIRCUIT
<b>SMART</b>	Large version - Opal cover 38W 2D	<b>DOT 13761D</b>	2.3	
	Large version - Satin cover 38W 2D	<b>DOT 13762D</b>	2.3	
<b>STANDARD</b>	Small version - Opal cover 28W 2D	<b>DOT 10102J</b>	1.7	
	Large version - Opal cover 28W 2D	<b>DOT 9902</b>	2.2	J/A
	38W 2D	<b>DOT 9903</b>	2.2	J/A
	Large version - Satin cover 28W 2D	<b>DOT 12099</b>	2.2	J/A
	38W 2D	<b>DOT 12100</b>	2.2	J/A

**SILVER OPTION** - Add suffix **SV3** e.g. **DOT 10102JSV3**

**CIRCUIT TYPE** - suffix catalogue number with:  
**J** - non-dimming (HF fluorescent) / **A** - dimming (DALI)  
 e.g. **DOT 9902J** etc.

Smart versions use digital dimming gear and are always suffixed **D**

**EMERGENCY VERSION** - prefix catalogue number with:  
**EDT** - Emergency / **TDT** - AutoTest e.g. **EDT 9902J** etc.

Emergency and AutoTest versions add 0.7kg to weights listed.

Web Link: Smart System



**SPECIFICATION**

- Spun aluminium body finished full polyester, non-yellowing white (internal and external)
- Opal or high efficiency satin polycarbonate cover versions
- Smart versions with intelligent lighting control
- Fitted with 3500K lamp

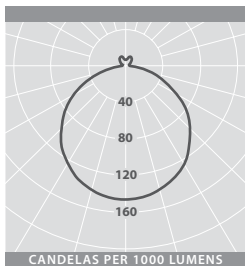


Smart version

**PHOTOMETRIC GUIDE**

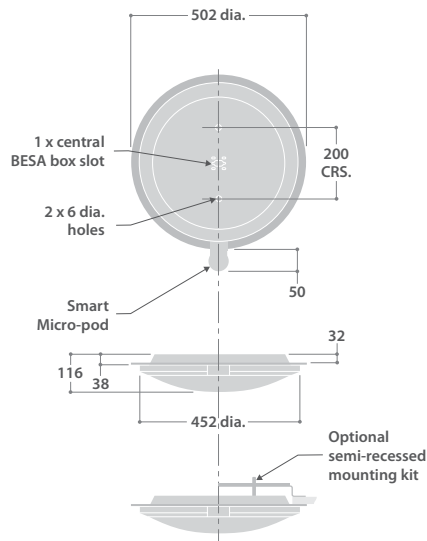
**38W 2D LAMP SATIN VERSION**

D.L.O.R. 60%



Factors:  
 28W Satin = 0.98  
 28W Opal = 0.80  
 38W Opal = 0.80

**DIMENSIONS**



**ACCESSORIES**

DESCRIPTION	CAT. No.	APPROX. kg
Semi-recessed mounting kit - Large version	DOT 9917	0.32

**RANGE**

	LAMP	CAT. No.	APPROX. kg	CIRCUIT
SMART	Opal cover 38W 2D	DOT 13763D	2.8	
	Satin cover 38W 2D	DOT 13764D	2.8	
STANDARD	Opal cover 28W 2D	DOT 12439	2.7	J/A
	Opal cover 38W 2D	DOT 12440	2.7	J/A
	Satin cover 28W 2D	DOT 12599	2.7	J/A
	Satin cover 38W 2D	DOT 12600	2.7	J/A

CIRCUIT TYPE - suffix catalogue number with:  
**J** - non-dimming (HF fluorescent) / **A** - dimming (DALI)  
 e.g. DOT 12439J etc.

Smart versions use digital dimming gear and are always suffixed **D**

EMERGENCY VERSION - prefix catalogue number with:  
**EDT** - Emergency / **TDT** - AutoTest e.g. EDT 12439J etc.  
 Emergency and AutoTest versions add 0.7kg to weights listed.

Web Link: Smart System







**SPECIFICATION**

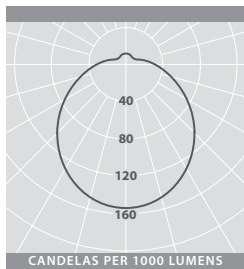
- Spun aluminium body finished full polyester, non-yellowing white
- Textured opal polycarbonate cover
- Fitted with 3500K lamp(s)



**PHOTOMETRIC GUIDE**

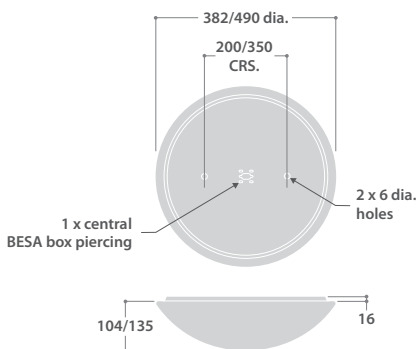
**38W 2D LAMP  
LARGE VERSION**

D.L.O.R. 50% U.L.O.R. 8%



Factor:  
1 x 28W Small = 1.24  
1 x 55W Large = 1.44

**DIMENSIONS**



**RANGE**

LAMP	CAT. No.	APPROX. kg
Small version 28W 2D	<b>GLO 11132J</b>	1.0
Large version 38W 2D	<b>GLO 11134J</b>	1.4
55W 2D ▲	<b>GLO 11135J</b>	1.6

CIRCUIT TYPE - J - non-dimming (HF fluorescent)

EMERGENCY VERSION - prefix catalogue number with:  
**EGL** - Emergency / **TGL** - AutoTest e.g. **EGL 11132J** etc.  
Emergency and AutoTest versions add 0.7kg to weights listed.

▲ Uses a sustained 10W TC-D 4-pin lamp (supplied)



**ATTITUDES TO LEARNING**  
LEARNING STAGE: 1-6

1. Attitudes	Attitudes are learned and can be changed.
2. Attitudes	Attitudes are learned and can be changed.
3. Attitudes	Attitudes are learned and can be changed.
4. Attitudes	Attitudes are learned and can be changed.
5. Attitudes	Attitudes are learned and can be changed.
6. Attitudes	Attitudes are learned and can be changed.
7. Attitudes	Attitudes are learned and can be changed.
8. Attitudes	Attitudes are learned and can be changed.
9. Attitudes	Attitudes are learned and can be changed.
10. Attitudes	Attitudes are learned and can be changed.
11. Attitudes	Attitudes are learned and can be changed.
12. Attitudes	Attitudes are learned and can be changed.
13. Attitudes	Attitudes are learned and can be changed.
14. Attitudes	Attitudes are learned and can be changed.
15. Attitudes	Attitudes are learned and can be changed.
16. Attitudes	Attitudes are learned and can be changed.
17. Attitudes	Attitudes are learned and can be changed.
18. Attitudes	Attitudes are learned and can be changed.
19. Attitudes	Attitudes are learned and can be changed.
20. Attitudes	Attitudes are learned and can be changed.

**ACTION LEARNING**

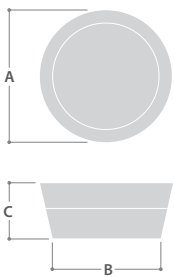


**SPECIFICATION**

- White body and clear prismatic controller both in polycarbonate
- Fitted with 3500K lamp



**DIMENSIONS**



**RANGE**

LAMP	CAT. No.	APPROX. kg	DIMENSIONS (mm)			CIRCUIT
			A	B	C	
<b>Mains</b>						
16W 2D	<b>MID 7888</b>	1.0	220	170	90	E/S
28W 2D	<b>MID 8261</b>	2.1	310	255	100	J
38W 2D	<b>MID 9673</b>	2.1	310	255	100	J
<b>Emergency</b>						
16W 2D	<b>EMD 9660</b>	2.7	310	255	100	J
<b>AutoTest</b>						
16W 2D	<b>TMD 9660</b>	2.7	310	255	100	J

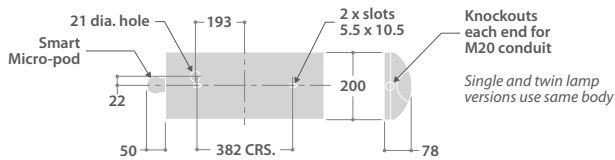
CIRCUIT TYPE - suffix catalogue number with:

E - electronic start / S - switch start / J - non-dimming (HF fluorescent) e.g. **MID 7888E** etc.

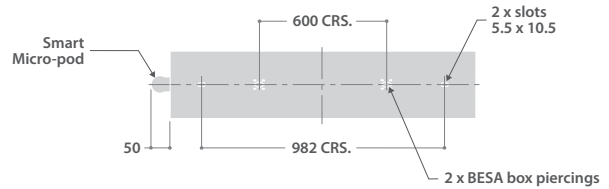


## DIMENSIONS

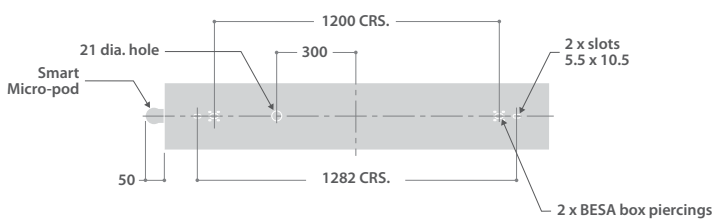
600 version  
(14W)



1200 versions  
(28W)



1500 versions  
(35 & 49W)







**SPECIFICATION**

- Steel body finished full polyester, non-yellowing white
- Shallow profile with co-extruded 'Satin-Glo' polycarbonate controller
- Smart versions with intelligent lighting control

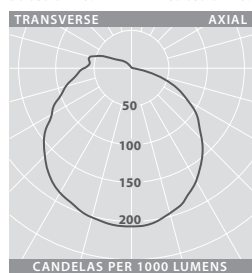


Smart version

**PHOTOMETRIC GUIDE**

**1 x 28W T5**

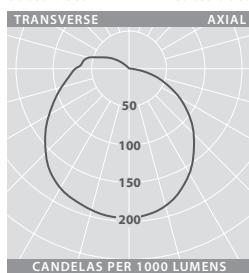
D.L.O.R. 77% U.L.O.R. 11%



FACTOR:  
1 x 35W = 0.91  
1 x 49W = 0.86

**2 x 28W T5**

D.L.O.R. 66% U.L.O.R. 9%



FACTOR:  
2 x 14W = 1.08  
2 x 35W = 1.10  
2 x 49W = 0.98

**RANGE**

	NOMINAL SIZE (mm)	LAMP	CAT. No.	LENGTH (mm)	APPROX. kg	CIRCUIT
SMART	600	2 x 14W T5	<b>JUB 13616D</b>	645	3.1	
	1200	1 x 28W T5	<b>JUB 13077D</b>	1245	4.1	
		2 x 28W T5	<b>JUB 13078D</b>		4.2	
	1500	1 x 35W T5	<b>JUB 13079D</b>	1545	5.1	
		2 x 35W T5	<b>JUB 13080D</b>		5.2	
		1 x 49W T5	<b>JUB 13081D</b>		5.1	
		2 x 49W T5	<b>JUB 13082D</b>		5.2	
STANDARD	600	2 x 14W T5	<b>JUB 13612</b>	595	3.0	J/D/T
	1200	1 x 28W T5	<b>JUB 13061</b>	1195	4.0	J/D/T
		2 x 28W T5	<b>JUB 13062</b>		4.1	J/D/T
		1 x 35W T5	<b>JUB 13065</b>		5.0	J/D/T
	1500	2 x 35W T5	<b>JUB 13066</b>	1495	5.1	J/D/T
		1 x 49W T5	<b>JUB 13067</b>		5.0	J/D/T
		2 x 49W T5	<b>JUB 13068</b>		5.1	J/D/T

CIRCUIT TYPE - suffix catalogue number with:  
**J** - non-dimming (HF fluorescent) / **D** - dimming (1-10V) / **T** - dimming (DSI) e.g. **JUB 13612J** etc.  
 Smart versions use digital dimming gear and are always suffixed **D**

EMERGENCY VERSION - prefix catalogue number with:  
**EJB** - Emergency / **TJB** - AutoTest e.g. **EJB 13612J** etc.  
 Emergency and AutoTest versions add 0.7kg to weights listed.

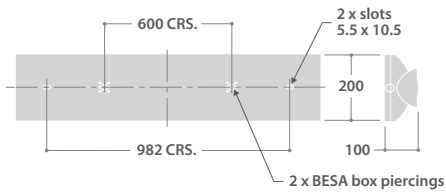
Lamps must be ordered separately

Web Link: Smart System

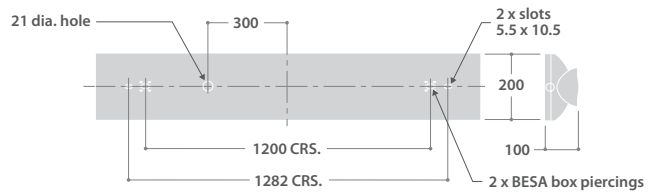


## DIMENSIONS

1200 versions  
(28W)



1500 versions  
(35 & 49W)





**SPECIFICATION**

- Steel body finished full polyester, non-yellowing white
- ‘Satin-Glo’ polycarbonate side controllers provide high angle illuminance
- Vibrant appearance louvre made from high reflectivity Miro aluminium
- Finger print resistant coating on louvre
- Excellent optical LG7:2005 design
- High light output ratio - up to 94%
- Smart versions with intelligent lighting control

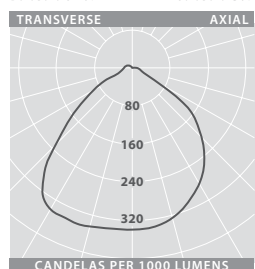


Smart version

**PHOTOMETRIC GUIDE**

**1 x 28W T5**

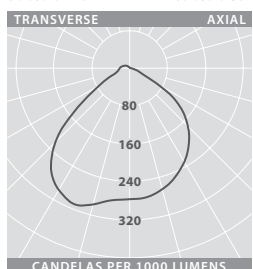
D.L.O.R. 91% U.L.O.R. 3%



FACTOR:  
1 x 35W = 0.91  
1 x 49W = 0.87

**2 x 28W T5**

D.L.O.R. 74% U.L.O.R. 3%



FACTOR:  
2 x 35W = 1.10  
2 x 49W = 1.04

**RANGE**

	NOMINAL SIZE (mm)	LAMP	CAT. No.	LENGTH (mm)	APPROX. kg	CIRCUIT
SMART	1200	1 x 28W T5	<b>JUB 13083D</b>	1195	4.5	
		2 x 28W T5	<b>JUB 13084D</b>		4.6	
	1500	1 x 35W T5	<b>JUB 13085D</b>	1495	5.5	
		2 x 35W T5	<b>JUB 13086D</b>		5.6	
		1 x 49W T5	<b>JUB 13087D</b>		5.5	
		2 x 49W T5	<b>JUB 13088D ▲</b>		5.6	
STANDARD	1200	1 x 28W T5	<b>JUB 13069</b>	1195	4.4	J/D/T
		2 x 28W T5	<b>JUB 13070</b>		4.5	J/D/T
	1500	1 x 35W T5	<b>JUB 13073</b>	1495	5.4	J/D/T
		2 x 35W T5	<b>JUB 13074</b>		5.5	J/D/T
		1 x 49W T5	<b>JUB 13075</b>		5.4	J/D/T
		2 x 49W T5	<b>JUB 13076 ▲</b>		5.5	J/D/T

CIRCUIT TYPE - suffix catalogue number with:  
**J** - non-dimming (HF fluorescent) / **D** - dimming (1-10V) / **T** - dimming (DSI) e.g. **JUB 13069J** etc.  
 Smart versions use digital dimming gear and are always suffixed **D**

EMERGENCY VERSION - prefix catalogue number with:  
**EJB** - Emergency / **TJB** - AutoTest e.g. **EJB 13069J** etc.  
 Emergency and AutoTest versions add 0.7kg to weights listed.

▲ 2 x 49W - Greater than 1500, less than 2000cd/m<sup>2</sup> at 65°

Lamps must be ordered separately

Web Link: Smart System

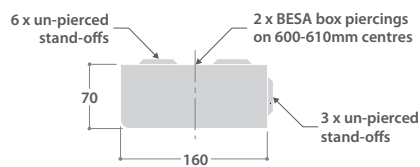


**SPECIFICATION**

- Steel body finished full polyester, non-yellowing white
- Polycarbonate prismatic base controller secured with light grey ABS end caps
- Ideal for corridors

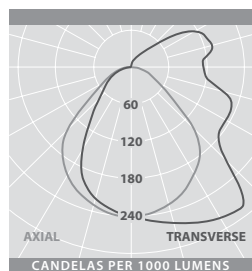


**DIMENSIONS**



**PHOTOMETRIC GUIDE**

1 x 35W T5  
D.L.O.R. 67% U.L.O.R. 15%



FACTOR:  
2 x 35W = 0.93

**RANGE**

NOMINAL SIZE (mm)	LAMP	CAT. No.	LENGTH (mm)	APPROX. kg
1500	1 x 35W T5	<b>CN 13301J</b>	1544	4.6
	2 x 35W T5	<b>CN 13302J</b>		4.8

CIRCUIT TYPE - J - non-dimming (HF fluorescent)

EMERGENCY VERSION - prefix catalogue number with:  
**ECN** - Emergency / **TCN** - AutoTest e.g. **ECN 13301J** etc.  
Emergency and AutoTest versions add 0.7kg to weights listed.

Lamps must be ordered separately









## SPECIFICATION

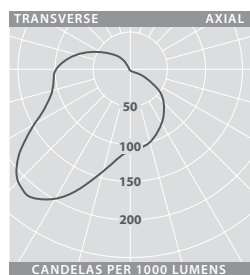
- Steel body, gear cover and end caps finished full polyester, non-yellowing white
- Ultra slim profile
- Acrylic or polycarbonate controllers
- Unique patented, Duo-flux® controller design reduces glare and increases downward light efficiency
- Smart versions with intelligent lighting control



## PHOTOMETRIC GUIDE

### 1 x 28W T5 ACRYLIC

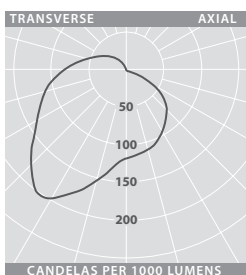
D.L.O.R. 68% U.L.O.R. 19%



FACTOR:  
1 x 35W = 1.09  
1 x 49W = 1.10

### 2 x 28W T5 ACRYLIC

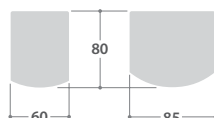
D.L.O.R. 67% U.L.O.R. 16%



FACTOR:  
2 x 35W = 1.05  
2 x 49W = 1.05

## DIMENSIONS

Single lamp Twin lamp



Controller with Smart-Pod

## RANGE

	NOMINAL SIZE (mm)	LAMP	ACRYLIC VERSION	POLYCARBONATE VERSION	LENGTH (mm)	FIXINGS	APPROX. kg	CIRCUIT
SMART	1500	1 x 35W T5		<b>KB 13308D</b>	1558	Suitable for BESA fixing on 600 to 610mm centres	3.0	
		2 x 35W T5		<b>KB 13260D</b>			3.6	
		1 x 49W T5		<b>KB 13395D</b>			3.0	
		2 x 49W T5		<b>KB 13279D</b>			3.6	
STANDARD	1200	1 x 28W T5	<b>KB 10848</b>	<b>KB 10856</b>	1208	As above	2.5	J/D/T
		2 x 28W T5	<b>KB 10849</b>	<b>KB 10857</b>			3.0	J/D/T
	1500	1 x 35W T5	<b>KB 10850</b>	<b>KB 10858</b>	1508	As above	2.9	J/D/T
		2 x 35W T5	<b>KB 10851</b>	<b>KB 10859</b>			3.5	J/D/T
		1 x 49W T5	<b>KB 10854</b>	<b>KB 10862</b>			2.9	J/D/T
		2 x 49W T5	<b>KB 10855</b>	<b>KB 10863</b>			3.5	J/D/T

CIRCUIT TYPE - suffix catalogue number with:

**J** - non-dimming (HF fluorescent) / **D** - dimming (1-10V) / **T** - dimming (DSI) e.g. **KB 10848J** etc.

Smart versions use digital dimming gear and are always suffixed **D**

EMERGENCY VERSION - prefix catalogue number with:

**EKB** - Emergency / **TKB** - AutoTest e.g. **EKB 10848J** etc.

Emergency and AutoTest versions add 0.7kg to weights listed.

Lamps must be ordered separately

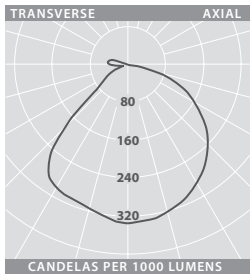
Web Link: Smart System



**PHOTOMETRIC GUIDE**

**1 x 28W T5**

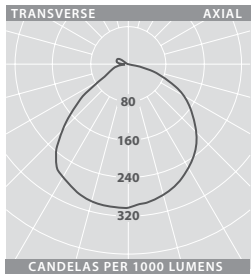
D.L.O.R. 86% U.L.O.R. 5%



FACTOR:  
 1 x 35W = 1.03  
 1 x 49W = 0.99  
 1 x 80W = 0.96

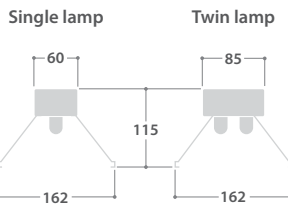
**2 x 28W T5**

D.L.O.R. 81% U.L.O.R. 5%



FACTOR:  
 2 x 35W = 1.03  
 2 x 49W = 0.95  
 2 x 80W = 0.95

**DIMENSIONS**





## SPECIFICATION

- Steel body, reflector and end caps finished full polyester, non-yellowing white
- Highly efficient photometric performance
- White polyester finish steel wire guard available
- Smart versions with intelligent lighting control for use up to 10 metres mounting height



Reflector with Smart Micro-Pod



## RANGE

	NOMINAL SIZE (mm)	LAMP	CAT. No.	LENGTH (mm)	FIXINGS	APPROX. kg	CIRCUIT
SMART	1500	2 x 49W T5	<b>KB 13276D</b>	1558	Suitable for BESA fixing on 600 to 610mm centres	5.3	
		2 x 80W T5	<b>KB 13277D</b>			5.3	
STANDARD	1200	1 x 28W T5	<b>KB 10832</b>	1208	As above	3.8	J/D/T
		2 x 28W T5	<b>KB 10833</b>			4.4	J/D/T
		1 x 35W T5	<b>KB 10834</b>			4.6	J/D/T
		2 x 35W T5	<b>KB 10835</b>			5.2	J/D/T
	1500	1 x 49W T5	<b>KB 10838</b>	1508	As above	4.6	J/D/T
		2 x 49W T5	<b>KB 10839</b>			5.2	J/D/T
		1 x 80W T5	<b>KB 10840</b>			4.6	J/D/T
		2 x 80W T5	<b>KB 12026</b>			5.2	J/D/T

CIRCUIT TYPE - suffix catalogue number with:

**J** - non-dimming (HF fluorescent) / **D** - dimming (1-10V) / **T** - dimming (DSI) e.g. **KB 10832J** etc.

Smart versions use digital dimming gear and are always suffixed **D**

EMERGENCY VERSION - prefix catalogue number with:

**EKB** - Emergency / **TKB** - AutoTest e.g. **EKB 10832J** etc.

Emergency and AutoTest versions add 0.7kg to weights listed.

Lamps must be ordered separately

## ACCESSORIES

DESCRIPTION	CAT. No.	APPROX. kg
1200mm wire guard kit for single or twin lamp	<b>KB 10864</b>	0.74
1500mm wire guard kit for single or twin lamp	<b>KB 10865</b>	0.93



Web Link: [Smart System](#)









**SPECIFICATION**

- Steel body and end caps finished full polyester, non-yellowing white
- Extremely efficient specular aluminium reflector provides low glare illumination of racking aisles
- Smart versions with intelligent lighting control for use up to 10 metres mounting height

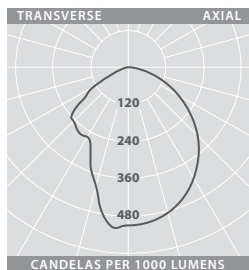


Smart version

**PHOTOMETRIC GUIDE**

**1 x 49W T5**

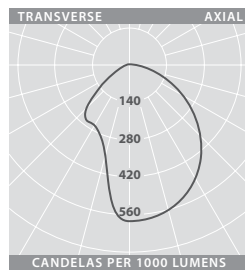
D.L.O.R. 99% U.L.O.R. 0%



FACTOR:  
1 x 80W = 1.01

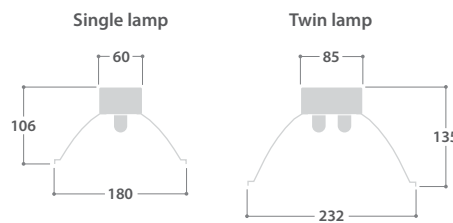
**2 x 49W T5**

D.L.O.R. 93% U.L.O.R. 0%



FACTOR:  
2 x 80W = 1.00

**DIMENSIONS**



**RANGE**

	NOMINAL SIZE (mm)	LAMP	CAT. No.	LENGTH (mm)	FIXINGS	APPROX. kg	CIRCUIT
SMART	1500	2 x 49W T5	<b>KB 13396D</b>	1558	Suitable for BESA fixing on 600 to 610mm centres	3.8	
		2 x 80W T5	<b>KB 13397D</b>			3.8	
STANDARD	1500	1 x 49W T5	<b>KB 10844</b>	1508	As above	3.1	J/D/T
		2 x 49W T5	<b>KB 10845</b>			3.7	J/D/T
		1 x 80W T5	<b>KB 10846</b>			3.1	J/D/T
		2 x 80W T5	<b>KB 12027</b>			3.7	J/D/T

CIRCUIT TYPE - suffix catalogue number with:

**J** - non-dimming (HF fluorescent) / **D** - dimming (1-10V) / **T** - dimming (DSI) e.g. **KB 10844J** etc.

Smart versions use digital dimming gear and are always suffixed **D**

EMERGENCY VERSION - prefix catalogue number with:

**EKB** - Emergency / **TKB** - AutoTest e.g. **EKB 10844J** etc.

Emergency and AutoTest versions add 0.7kg to weights listed.

Lamps must be ordered separately

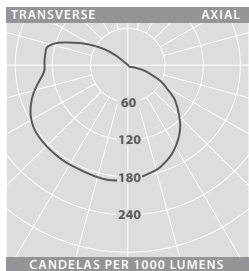
Web Link: Smart System



**PHOTOMETRIC GUIDE**

**1 x 28W T5**

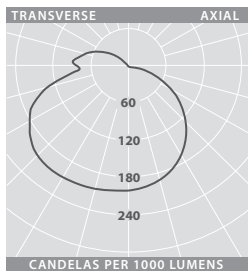
D.L.O.R. 80%      U.L.O.R. 22%



FACTOR:  
 1 x 35W = 1.06  
 1 x 49W = 1.01  
 1 x 54W = 1.01

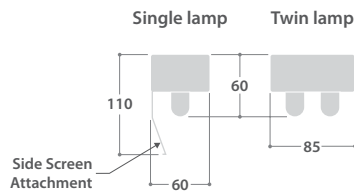
**2 x 28W T5**

D.L.O.R. 83%      U.L.O.R. 15%



FACTOR:  
 2 x 35W = 0.99  
 2 x 49W = 1.02  
 2 x 54W = 0.81

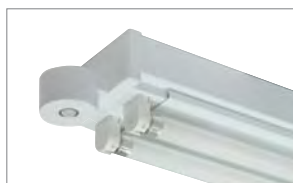
**DIMENSIONS**





**SPECIFICATION**

- Steel body and end caps finished full polyester, non-yellowing white
- Ultra slim section
- Side screen attachment
- Smart versions with intelligent lighting control



Batten with Smart Micro-Pod

**RANGE**

	NOMINAL SIZE (mm)	LAMP	CAT. No.	LENGTH (mm)	FIXINGS	APPROX. kg	CIRCUIT
SMART	1500	1 x 35W T5	<b>KB 13377D</b>	1558	Suitable for BESA fixing on 600 to 610mm centres	2.5	
		2 x 35W T5	<b>KB 13254D</b>			3.1	
STANDARD	1200	1 x 28W T5	<b>KB 10822</b>	1208	As above	2.1	J/D/T
		2 x 28W T5	<b>KB 10823</b>			2.6	J/D/T
		1 x 54W T5	<b>KB 10826</b>			2.1	J/D/T
		2 x 54W T5	<b>KB 10827</b>			2.6	J/D/T
	1500	1 x 35W T5	<b>KB 10824</b>	1508	As above	2.4	J/D/T
		2 x 35W T5	<b>KB 10825</b>			3.0	J/D/T
		1 x 49W T5	<b>KB 10828</b>			2.4	J/D/T
		2 x 49W T5	<b>KB 10829</b>			3.0	J/D/T

**CIRCUIT TYPE** - suffix catalogue number with:  
**J** - non-dimming (HF fluorescent) / **D** - dimming (1-10V) / **T** - dimming (DSI) e.g. **KB 10822J** etc.  
 Smart versions use digital dimming gear and are always suffixed **D**

**EMERGENCY VERSION** - prefix catalogue number with:  
**EKB** - Emergency / **TKB** - AutoTest e.g. **EKB 10822J** etc.  
 Emergency and AutoTest versions add 0.7kg to weights listed.

Lamps must be ordered separately

**ACCESSORIES**

DESCRIPTION	CAT. No.	APPROX. kg
1500mm side screen attachment (single lamp only)	<b>KB 10868</b>	1.19



Side screen attachment

Web Link: Smart System



# A-LINE



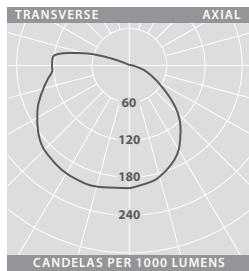


# A-LINE POLYCARBONATE COVER

## PHOTOMETRIC GUIDE

### 1 x 35W T5

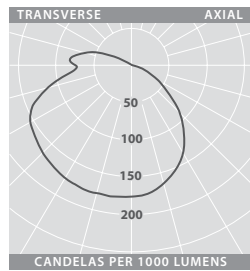
D.L.O.R. 80% U.L.O.R. 12%



FACTOR:  
1 x 49W = 1.18

### 2 x 35W T5

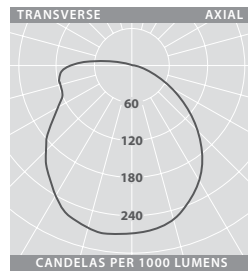
D.L.O.R. 70% U.L.O.R. 11%



FACTOR:  
2 x 49W = 0.95

### 1 x 35W T5 - XL VERSION

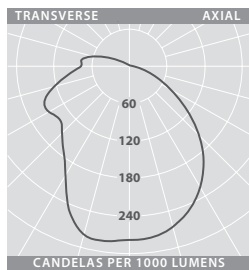
D.L.O.R. 86% U.L.O.R. 7%



FACTOR:  
1 x 49W = 1.09

### 2 x 35W T5 - XL VERSION

D.L.O.R. 81% U.L.O.R. 9%

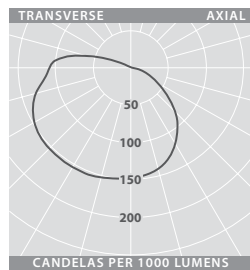


FACTOR:  
2 x 49W = 0.96

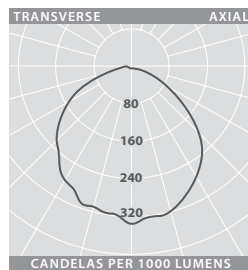
### COOKER HOOD VERSION

#### 1 x 58W T8

D.L.O.R. 65% U.L.O.R. 10%

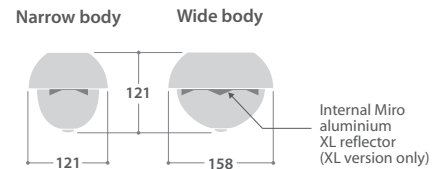


### LED



Luminaire Lumen Output:  
58W = 6100 lm

## DIMENSIONS

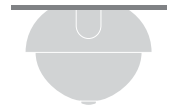


## INSTALLATION KITS - One kit per luminaire installed

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

### EXTERNAL FIXING

An external backstrap option is available to special order



### COOKER HOOD VERSION

For high ambient temperature applications up to 60°C, specify:  
**AL 10116X** - 1500mm, 1 x 58W T8, switch start control gear with polycarbonate cover and slotted screw cover fixings. Length 1598mm and approx. 6.0kg. Narrow body.



## SPECIFICATION

- Robust and durable extruded aluminium body with die-cast ends finished full polyester, non-yellowing white
- Body dissipates heat, ensuring long control gear life in higher ambient temperatures
- High impact-resistant textures, flame retardant polycarbonate cover
- Tamper-resistant cover screws
- Removable gear tray, hangs on safety straps for easy maintenance
- Version for high ambient temperatures to 60°C
- Complies with M.O.D. JSP482 Chapter 8 Document for 'Category C' areas
- XL version - Miro aluminium XL reflectors focus and direct the light efficiently and effectively
- Smart versions with intelligent lighting control for use up to 10 metres mounting height
- LED version fitted with 4000K LEDs



## LED CHARACTERISTICS

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

For LED characteristics explanation see [www.thorlux.com/led-characteristics](http://www.thorlux.com/led-characteristics)



Smart version



LED version PCB board



XL version (cover removed)

## RANGE

	NOMINAL SIZE (mm)	LAMP	CAT. No.	LENGTH (mm)	APPROX. kg	CIRCUIT	
SMART	LED Version						
	1500	58W LED	<b>AL 15223D ▲</b>	1598	8.1		
	T5 Lamp XL Version						
	1500	1 x 35W T5	<b>AL 14283D ▲</b>		1598	6.2	
		2 x 35W T5	<b>AL 14083D ▲</b>			8.2	
		1 x 49W T5	<b>AL 14528D ▲</b>			6.2	
2 x 49W T5		<b>AL 14085D ▲</b>		8.2			
STANDARD	LED Version						
	1500	58W LED	<b>AL 15212L ▲</b>	1598	8.0		
	T5 Lamp XL Version						
	1500	1 x 35W T5	<b>AL 13695 ■</b>		1598	6.1	J/D/T
		2 x 35W T5	<b>AL 13696 ▲</b>			8.1	J/D/T
		1 x 49W T5	<b>AL 14224 ■</b>			6.1	J/D/T
		2 x 49W T5	<b>AL 14081 ▲</b>			8.1	J/D/T
	T5 Lamp Version						
	1200	1 x 28W T5	<b>AL 13484 ■</b>		1298	4.8	J/D/T
		2 x 28W T5	<b>AL 13485 ■</b>			4.9	J/D/T
	1500	1 x 35W T5	<b>AL 11037 ■</b>		1598	6.0	J/D/T
		2 x 35W T5	<b>AL 11038 ■</b>			6.1	J/D/T
1 x 49W T5		<b>AL 11039 ■</b>		6.0		J/D/T	
2 x 49W T5		<b>AL 11040 ■</b>		6.1		J/D/T	

CIRCUIT TYPE - suffix catalogue number with:

**L** - non-dimming (LED) / **J** - non-dimming (HF fluorescent) / **D** - dimming (1-10V) / **T** - dimming (DSI) e.g. **AL 13696J** etc.

EMERGENCY VERSION - prefix catalogue number with:

**EAL** - Emergency / **TAL** - AutoTest e.g. **EAL 13696J** etc.  
Emergency and AutoTest versions add 0.7kg to weights listed.

■ Narrow body / ▲ Wide body

Lamps must be ordered separately

Web Link: Smart System

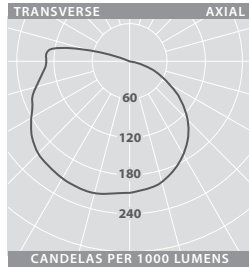


# A-LINE ACRYLIC COVER

## PHOTOMETRIC GUIDE

### 1 x 35W T5

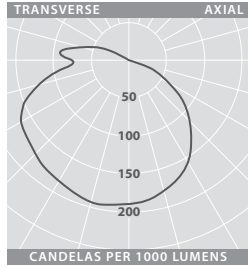
D.L.O.R. 86% U.L.O.R. 12%



FACTOR:  
1 x 49W = 1.07

### 2 x 35W T5

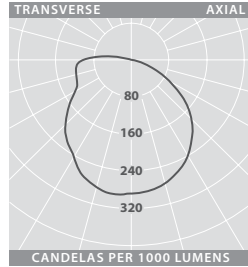
D.L.O.R. 72% U.L.O.R. 11%



FACTOR:  
2 x 49W = 1.02

### 1 x 35W T5 - XL VERSION

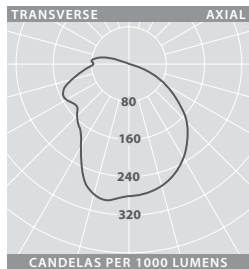
D.L.O.R. 90% U.L.O.R. 7%



FACTOR:  
1 x 49W = 1.10

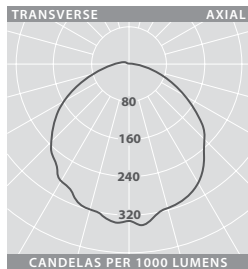
### 2 x 35W T5 - XL VERSION

D.L.O.R. 85% U.L.O.R. 9%



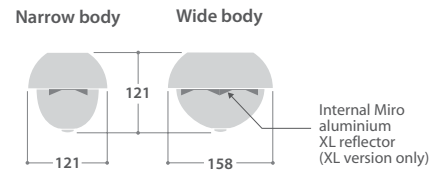
FACTOR:  
2 x 49W = 0.96

## LED



Luminaire Lumen Output:  
58W = 6400 lm

## DIMENSIONS



## INSTALLATION KITS - One kit per luminaire installed

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

### EXTERNAL FIXING

An external backstrap option is available to special order





## SPECIFICATION

- Robust and durable extruded aluminium body with die-cast ends finished full polyester, non-yellowing white
- Body dissipates heat, ensuring long control gear life in higher ambient temperatures
- Smooth acrylic cover has high resistance to corrosion
- Removable gear tray, hangs on safety straps for easy maintenance
- XL version - Miro aluminium XL reflectors focus and direct the light efficiently and effectively
- Smart versions with intelligent lighting control for use up to 10 metres mounting height
- LED version fitted with 4000K LEDs



### LED CHARACTERISTICS

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

For LED characteristics explanation see [www.thorlux.com/led-characteristics](http://www.thorlux.com/led-characteristics)



Smart version



LED version PCB board



XL version (cover removed)

## RANGE

	NOMINAL SIZE (mm)	LAMP	CAT. No.	LENGTH (mm)	APPROX. kg	CIRCUIT	
SMART	LED Version						
	1500	58W LED	<b>AL 15224D ▲</b>	1598	8.1		
	T5 Lamp XL Version						
	1500	1 x 35W T5	<b>AL 14284D ▲</b>		1598	6.2	
		2 x 35W T5	<b>AL 14084D ▲</b>			8.2	
		1 x 49W T5	<b>AL 14527D ▲</b>		6.2		
2 x 49W T5		<b>AL 14086D ▲</b>		8.2			
STANDARD	LED Version						
	1500	58W LED	<b>AL 15213L ▲</b>	1598	8.0		
	T5 Lamp XL Version						
	1500	1 x 35W T5	<b>AL 13693 ■</b>		1598	6.1	J/D/T
		2 x 35W T5	<b>AL 13694 ▲</b>			8.1	J/D/T
		1 x 49W T5	<b>AL 14225 ■</b>		6.1	J/D/T	
		2 x 49W T5	<b>AL 14082 ▲</b>		8.1	J/D/T	
	T5 Lamp Version						
	1200	1 x 28W T5	<b>AL 13482 ■</b>		1298	4.8	J/D/T
		2 x 28W T5	<b>AL 13483 ■</b>			4.9	J/D/T
	1500	1 x 35W T5	<b>AL 11033 ■</b>		1598	6.0	J/D/T
		2 x 35W T5	<b>AL 11034 ■</b>			6.1	J/D/T
1 x 49W T5		<b>AL 11035 ■</b>		6.0	J/D/T		
2 x 49W T5		<b>AL 11036 ■</b>		6.1	J/D/T		

L - non-dimming (LED) / J - non-dimming (HF fluorescent) / D - dimming (1-10V) / T - dimming (DSI) e.g. **AL 13694J** etc.

EMERGENCY VERSION - prefix catalogue number with:  
**EAL - Emergency** / **TAL - AutoTest** e.g. **EAL 13694J** etc.  
Emergency and AutoTest versions add 0.7kg to weights listed.

■ Narrow body / ▲ Wide body

Lamps must be ordered separately

Web Link: Smart System

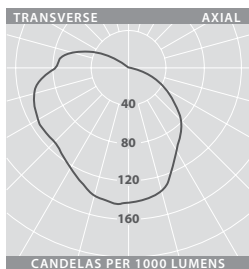


## PHOTOMETRIC GUIDE

### 1 x 36W

D.L.O.R. 55%

U.L.O.R. 13%

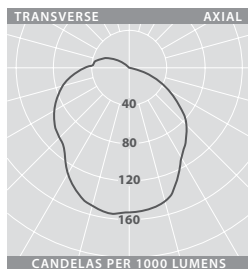


FACTOR:  
1 x 58W = 1.00

### 2 x 36W

D.L.O.R. 51%

U.L.O.R. 8%



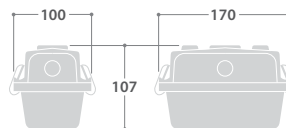
FACTOR:  
2 x 58W = 1.00

## DIMENSIONS

600/1200/1500mm versions

Single lamp

Twin lamp



## INSTALLATION KITS - One kit per luminaire installed

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



**SPECIFICATION**

- Corrosion-resistant light grey G.R.P. moulded body
- Impact resistant internally prismatic polycarbonate cover secured with durable stainless steel clips
- Quick-release turnbuckles make gear tray removal simple. Hangs on safety straps for easy maintenance
- Through wiring facility option
- Complies with M.O.D. JSP482 Chapter 8 Document for 'Category C' areas



**RANGE**

NOMINAL SIZE (mm)	LAMP	CAT. No.	LENGTH (mm)	FIXINGS	APPROX. kg
600	2 x 18W T8	<b>PFG 13002J</b>	666	Drill 2 holes on 230mm centres	3.7
1200	1 x 36W T8 2 x 36W T8	<b>PFG 13003J</b> <b>PFG 13004J</b>	1276	Drill 2 holes on 836mm centres	3.2 4.6
1500	1 x 58W T8 2 x 58W T8	<b>PFG 13005J</b> <b>PFG 13006J</b>	1576	Drill 2 holes on 1136mm centres	4.2 6.9

FACTORY FITTED THROUGH WIRING WITH BRASS GLAND EARTHING LUGS - add 'TW' after catalogue number eg. **PFG 13002JTW**

CIRCUIT TYPE - J - non-dimming (HF fluorescent)

EMERGENCY VERSION - prefix catalogue number with:  
**EFP** - Emergency / **TFP** - AutoTest e.g. **EFP 13002J** etc.  
 Emergency and AutoTest versions add 0.7kg to weights listed.

LOW TEMPERATURE VERSIONS (down to -40C) - Contact our Technical Department for further details

Lamps must be ordered separately



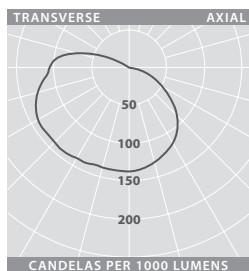


## PHOTOMETRIC GUIDE

### 1 x 36W

D.L.O.R. 63%

U.L.O.R. 12%

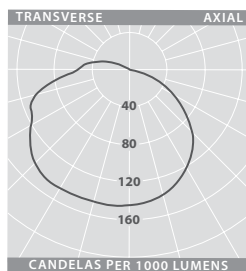


FACTOR:  
1 x 58W = 1.00

### 2 x 26W

D.L.O.R. 61%

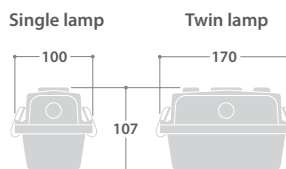
U.L.O.R. 5%



FACTOR:  
2 x 58W = 1.00

## DIMENSIONS

600/1200/1500mm versions  
Injection moulded prismatic acrylic cover



## INSTALLATION KITS - One kit per luminaire installed

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

IP65 CE T8

**SPECIFICATION**

- Corrosion-resistant light grey G.R.P. moulded body
- Internally prismatic acrylic covers secured with durable stainless steel clips
- Quick-release turnbuckles make gear tray removal simple. Hangs on safety straps for easy maintenance
- Through wiring facility option

**RANGE**

NOMINAL SIZE (mm)	LAMP	CAT. No.	LENGTH (mm)	FIXINGS	APPROX. kg
600	2 x 18W T8	<b>AFG 13010J</b>	666	Drill 2 holes on 230mm centres	3.7
1200	1 x 36W T8 2 x 36W T8	<b>AFG 13011J</b> <b>AFG 13012J</b>	1276	Drill 2 holes on 836mm centres	3.2 4.6
1500	1 x 58W T8 2 x 58W T8	<b>AFG 13013J</b> <b>AFG 13014J</b>	1576	Drill 2 holes on 1136mm centres	4.2 6.9

FACTORY FITTED THROUGH WIRING WITH BRASS GLAND EARTHING LUGS - add 'TW' after catalogue number eg. **AFG 13010JTW**

CIRCUIT TYPE - J - non-dimming (HF fluorescent)

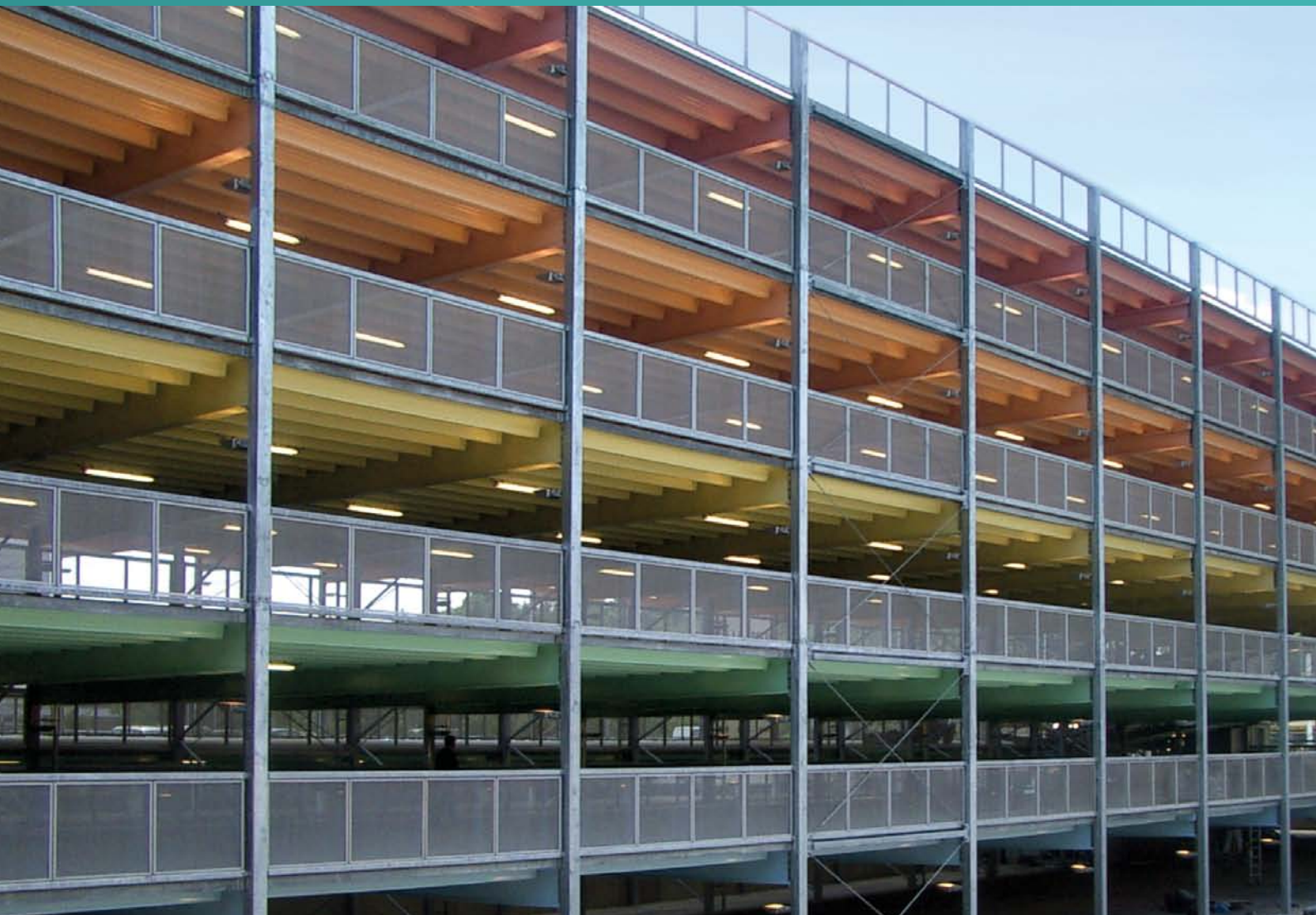
EMERGENCY VERSION - prefix catalogue number with:

**EFA** - Emergency / **TFA** - AutoTest e.g. **EFA 13010J** etc.

LOW TEMPERATURE VERSIONS (down to -40C) - Contact our Technical Department for further details

Lamps must be ordered separately





## ACCESSORIES



### DESCRIPTION

### CAT. No.

### APPROX. kg

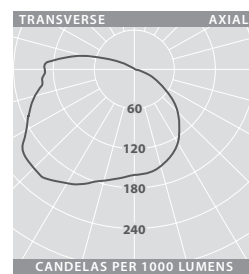
Narrow distribution reflector (Single 58W T8)	<b>TP 10415</b>	0.15
Narrow distribution reflector (Twin 58W T8)	<b>TP 10416</b>	0.5
Narrow distribution reflector (Single 35/49W T5)	<b>TP 11836</b>	0.15
Narrow distribution reflector (Twin 35/49W T5)	<b>TP 11835</b>	0.5
IP65 20mm weatherproof compression gland kit with sealing washers	<b>IK 6389</b>	0.02
Stainless steel adjustable bracket (Short) - two per pack	<b>IK 10419</b>	0.13
Stainless steel adjustable bracket (148mm long) - two per pack	<b>IK 10420</b>	0.24
Stainless steel adjustable hook - two per pack	<b>IK 10421</b>	0.05
Stainless steel cover clip - eight required per 1200mm body - ten required per 1500mm body	<b>TP 10541</b>	

## PHOTOMETRIC GUIDE

### 1 x 28W

D.L.O.R. 83%

U.L.O.R. 13%

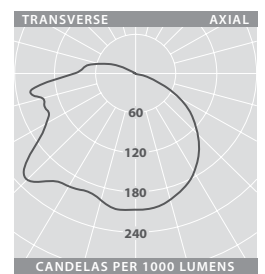


FACTOR:  
1 x 35W = 0.98  
1 x 49W = 0.99

### 2 x 28W

D.L.O.R. 82%

U.L.O.R. 10%

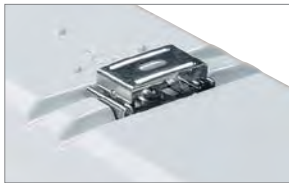


FACTOR:  
2 x 35W = 0.98  
2 x 49W = 0.94



**SPECIFICATION**

- High-impact and corrosion-resistant light grey, injection moulded polycarbonate body
- Clear prismatic polycarbonate cover
- Body and cover flame-retardant
- Smooth easy-clean lines
- Snug-fit polycarbonate cover clips (stainless steel option)
- Fast installation via external stainless-steel brackets preserves IP rating
- Optional aluminium narrow distribution reflector for rack lighting applications
- Complies with M.O.D. JSP482 Chapter 8 Document for 'Category C' areas

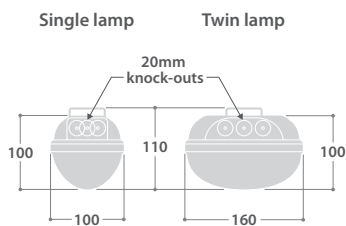


**DIRECT**  
Pair of stainless steel brackets supplied. Provides clearance for thermal expansion and fixing



**PENDANT**  
Pair of steel spring loops supplied

**DIMENSIONS**



**RANGE**

NOMINAL SIZE (mm)	LAMP	CAT. No.	LENGTH (mm)	FIXINGS	APPROX. kg
<b>T5 Lamp versions</b>					
1200	1 x 28W T5	<b>TP 12075J</b>	1270	920mm centres	3.0
	2 x 28W T5	<b>TP 13400J</b>			4.0
1500	1 x 35W T5	<b>TP 11795J</b>	1570	1150mm centres	4.2
	2 x 35W T5	<b>TP 11796J</b>			5.5
1500	1 x 49W T5	<b>TP 11797J</b>	1570	1150mm centres	4.2
	2 x 49W T5	<b>TP 11798J</b>			5.5
<b>T8 Lamp versions</b>					
1200	1 x 36W T8	<b>TP 10411J</b>	1270	920mm centres	3.0
	2 x 36W T8	<b>TP 10412J</b>			4.0
1500	1 x 58W T8	<b>TP 10413J</b>	1570	1150mm centres	4.2
	2 x 58W T8	<b>TP 10414J</b>			5.5

**FACTORY FITTED THROUGH WIRING** - add 'TW' after catalogue number eg. **TP 12075JTW**

**CIRCUIT TYPE - J - non-dimming (HF fluorescent)**

**EMERGENCY VERSION** - prefix catalogue number with:  
**ETP - Emergency / TTP - AutoTest** e.g. **ETP 12075J** etc.  
 Emergency and AutoTest versions add 0.7kg to weights listed.

Lamps must be ordered separately



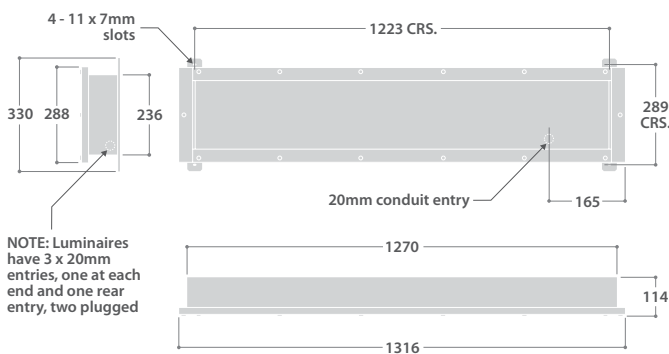


**SPECIFICATION**

- Body in 1.2mm and front frame in 1.6mm stainless steel
- Asymmetric light distribution
- Quick-release front cover
- 5mm clear, flat, polycarbonate panel or 5mm clear toughened/safety glass
- Specialist designs to suit application (subject to minimum order quantity)
- Complies with M.O.D. JSP482 Chapter 8 Document for 'Category C' areas



**DIMENSIONS**



**RANGE**

NOMINAL SIZE (mm)	LAMP	CAT. No.	APPROX. kg
1200	2 x 40W TC-L	<b>PG 11903J</b>	14.2
1200	2 x 40W TC-L	<b>PG 12821J</b>	16.4

EMERGENCY VERSION - prefix catalogue number with:  
**EPG - Emergency / TPG - AutoTest** e.g. **EPG 111903J** etc.  
 Emergency and AutoTest versions add 0.7kg to weights listed.

Lamps must be ordered separately



**SPECIFICATION**

- 1.0mm steel body finished full polyester powder coated textured black
- 1.5mm steel front cover frame retained with tamper-resistant captive fixings (key supplied)
- Opal or clear, 5mm thick polycarbonate front cover options
- Continuous mounting available using infills
- Complies with M.O.D. JSP482 Document for 'Category C' areas
- High impact strength - IK10
- Safe cell prison versions available (see below)



Infill



Clear panel

**DIMENSIONS**



NOTE: Supply entries and fixing points to be drilled on site  
IP65 integrity must be maintained

**RANGE**

NOMINAL SIZE (mm)	LAMP	CLEAR POLYCARBONATE PANEL	OPAL POLYCARBONATE PANEL	APPROX. kg
1500	1 x 49W T5	<b>VN 13313J</b>	<b>VN 13317J</b>	13.0
	2 x 49W T5	<b>VN 13314J</b>	<b>VN 13318J</b>	13.2

**EMERGENCY VERSION** - prefix catalogue number with:  
**EVN - Emergency / TVN - AutoTest** e.g. **EVN 13313J** etc.  
Emergency and AutoTest versions add 0.7kg to weights listed.

Lamps must be ordered separately

**SAFE CELL**

Version available to special order with National Offender Management Service (NOMS) approval for use in Prison "Safer Cells". Contact our Sales department for details

**ACCESSORIES**

DESCRIPTION	CAT. No.	APPROX. kg
1500mm Infill (for use with continuous mounting)	<b>VN 13327</b>	13.6
Key for tamper-resistant screws	<b>KY 13328</b>	-



## SPECIFICATION

- Steel body finished full polyester, non-yellowing white
- Rigid steel construction
- Designed for general indoor use
- Easily converted into reflector luminaires
- Surface, chain or trunking mounted
- Smart versions with intelligent lighting control



Batten with Smart Micro-Pod



Support Loop

## ACCESSORIES

DESCRIPTION	CAT. No.
Support loops (pair) for chain suspension	<b>WB 4347</b>

## RANGE

	NOMINAL SIZE (mm)	LAMP	CAT. No.	LENGTH (mm)	FIXINGS	APPROX. kg	CIRCUIT
SMART	1500	1 x 58W T8	<b>WB 13403D</b>	1601	2 x 21mm dia. holes on 610mm centres	4.8	
		2 x 58W T8	<b>WB 13404D</b>			6.3	
STANDARD	1500	1 x 58W T8	<b>WB 4508</b>	1551	As above	4.7	J/D
		2 x 58W T8	<b>WB 4509</b>			6.2	J/D

CIRCUIT TYPE - suffix catalogue number with:

**J** - non-dimming (HF fluorescent) / **D** - dimming (1-10V) e.g. **WB 4508J** etc.

Smart versions use digital dimming gear and are always suffixed D

EMERGENCY VERSION - prefix catalogue number with:

**EWB** - Emergency / **TWB** - AutoTest e.g. **EWB 4508J** etc.

Emergency and AutoTest versions add 0.7kg to weights listed.

Lamps must be ordered separately

Web Link: Smart System



## SPECIFICATION

- Steel body finished full polyester, non-yellowing white
- Rigid steel construction
- Designed for general indoor use
- Reflectors are attached to body with quick-release turnbuckles
- White polyester finish steel wire guard option
- Surface, chain or trunking mounted
- Smart versions with intelligent lighting control for use up to 10 metres mounting height

## ACCESSORIES

DESCRIPTION	CAT. No.	APPROX. kg
Support loops (pair) for chain suspension	<b>WB 4347</b>	-
1500mm Wire guard for single or twin lamp	<b>WB 4449</b> ■ ▲	1.25



Support Loop

- Closed End Reflector only
- ▲ Not suitable for angle reflectors



Open end reflector version

Closed end reflector version

## RANGE

	NOMINAL SIZE (mm)	LAMP	CAT. No.	LENGTH (mm)	FIXINGS	APPROX. kg	CIRCUIT
SMART	1500	1 x 58W T8	<b>WB 13405D</b>	1601	2 x 21mm dia. holes on 610mm centres	6.9	
		2 x 58W T8	<b>WB 13406D</b>			8.3	
STANDARD	1500	1 x 58W T8	<b>WB 4552</b>	1551	As above	6.8	J/D
		2 x 58W T8	<b>WB 4553</b>			8.2	J/D
	1500	1 x 58W T8	<b>WB 4530</b>	1629	As above	7.4	J/D
		2 x 58W T8	<b>WB 4531</b>			8.8	J/D
1500	1 x 58W T8	<b>WB 4576</b>	1627	As above	8.0	J/D	
	2 x 58W T8	<b>WB 4577</b>			9.4	J/D	



Closed end reflector with wire guard

CIRCUIT TYPE - suffix catalogue number with:  
**J** - non-dimming (HF fluorescent) / **D** - dimming (1-10V) e.g. **WB 4552J** etc.  
 Smart versions use digital dimming gear and are always suffixed **D**

EMERGENCY VERSION - prefix catalogue number with:  
**EWB** - Emergency / **TWB** - AutoTest e.g. **EWB 4552J** etc.  
 Emergency and AutoTest versions add 0.7kg to weights listed.

Lamps must be ordered separately

Web Link: Smart System

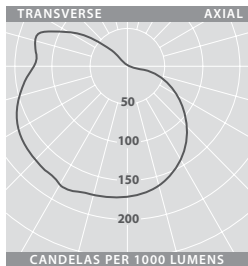




**PHOTOMETRIC GUIDE**

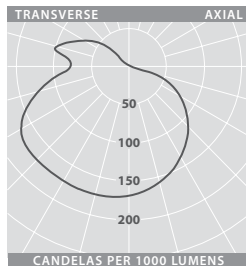
**1 LAMP - BATTEN**

D.L.O.R. 75% U.L.O.R. 18%



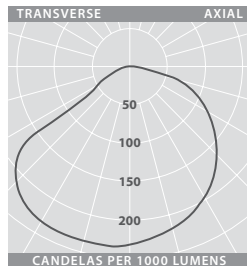
**2 LAMP - BATTEN**

D.L.O.R. 70% U.L.O.R. 18%



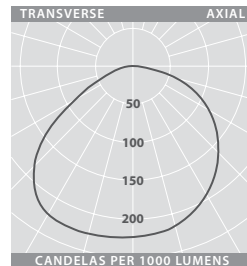
**1 LAMP - OPEN/CLOSED END REFLECTOR**

D.L.O.R. 76% U.L.O.R. 4%



**2 LAMP - OPEN/CLOSED END REFLECTOR**

D.L.O.R. 73% U.L.O.R. 3%

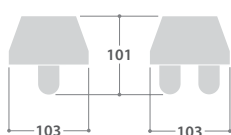




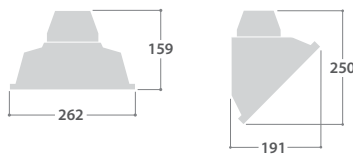


**DIMENSIONS**

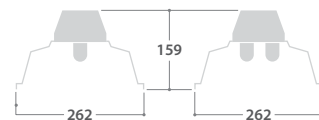
Batten  
Single lamp      Twin lamp



Closed End Reflector



Open End Reflector  
Single lamp      Twin lamp



# EXTERIOR LIGHTING

# FOLIO



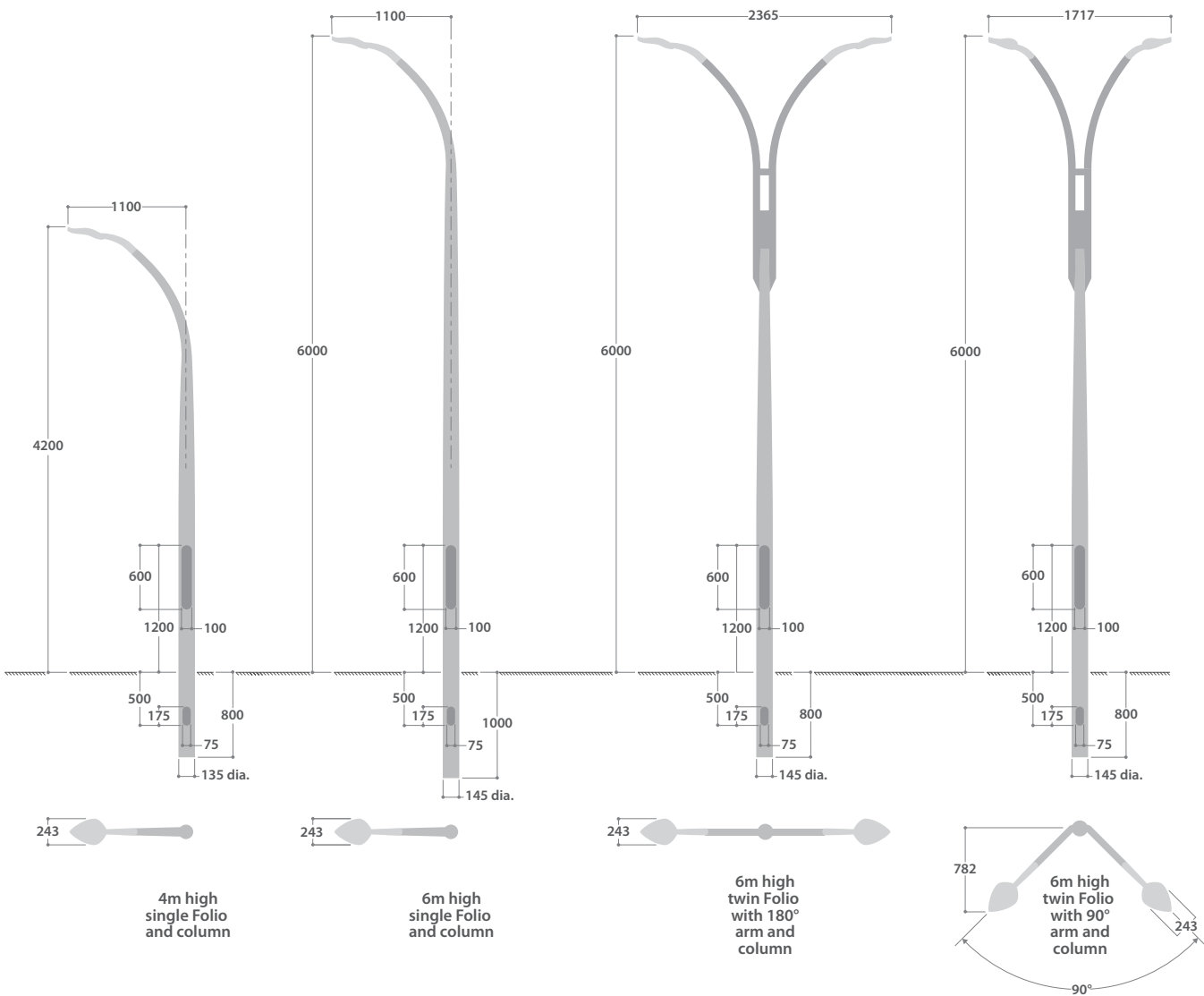






The Folio is equipped with 18 LEDs, each precisely located to minimise upward light and optimise the spacing distance between fittings.

**DIMENSIONS**







**SPECIFICATION**

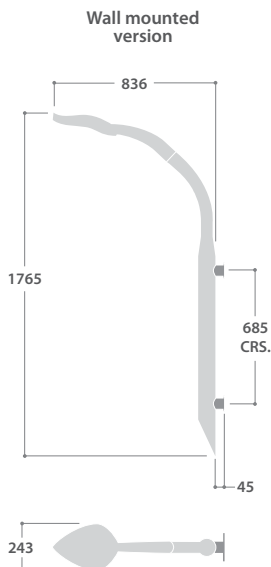
Folio head units complete with support arms and power packs are factory fitted to the aluminium columns or adaptors to ensure swift installation on site

- Head unit - cast aluminium finished light textured silver (RAL 9006)
- Impact resistant, UV stabilised, polycarbonate cover
- Cast aluminium support arm
- Upward light ratio (ULR) 3%
- Smart External or conventionally switched versions
- Smart version dimmable - 10% to 100%
- Photocell option - standard versions
- Fitted with 6000K LEDs

A range of columns and arms complement the Folio.

- Columns and Twin Folio Arms manufactured from aluminium
- Thermo-plastic root protection
- 600mm access door to gear/wiring compartment
- Galvanised steel retro-fit arms available for existing installations
- Wall mounted version available - mounting arm also finished light textured silver (RAL 9006)

**DIMENSIONS**



Folio Design Registration Number 1099451

LED CHARACTERISTICS							
Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/CW
65	6000	60K	P	>90	R	>0.95	57.1

For LED characteristics explanation see [www.thorlux.com/led-characteristics](http://www.thorlux.com/led-characteristics)

**RANGE**

	DESCRIPTION	LED	CAT. No.	APPROX. kg
SMART EXTERNAL	4m high single	38W	FL 14475D	22.1
	6m high single	38W	FL 14476D	30.1
	6m high twin 180°	2 x 38W	FL 14477D	40.1
	6m high twin 90°	2 x 38W	FL 14536D	40.1
	Wall mounted	38W	FL 15278D	9.7
STANDARD	4m high single	38W	FL 14472L	22.0
	6m high single	38W	FL 14473L	30.0
	6m high twin 180°	2 x 38W	FL 14474L	40.0
	6m high twin 90°	2 x 38W	FL 14535L	40.0
	Wall mounted	38W	FL 15278L	9.6

**CIRCUIT TYPE - L - non-dimming (LED)**

Smart External versions use digital dimming gear and are always suffixed D

**OPTIONS**

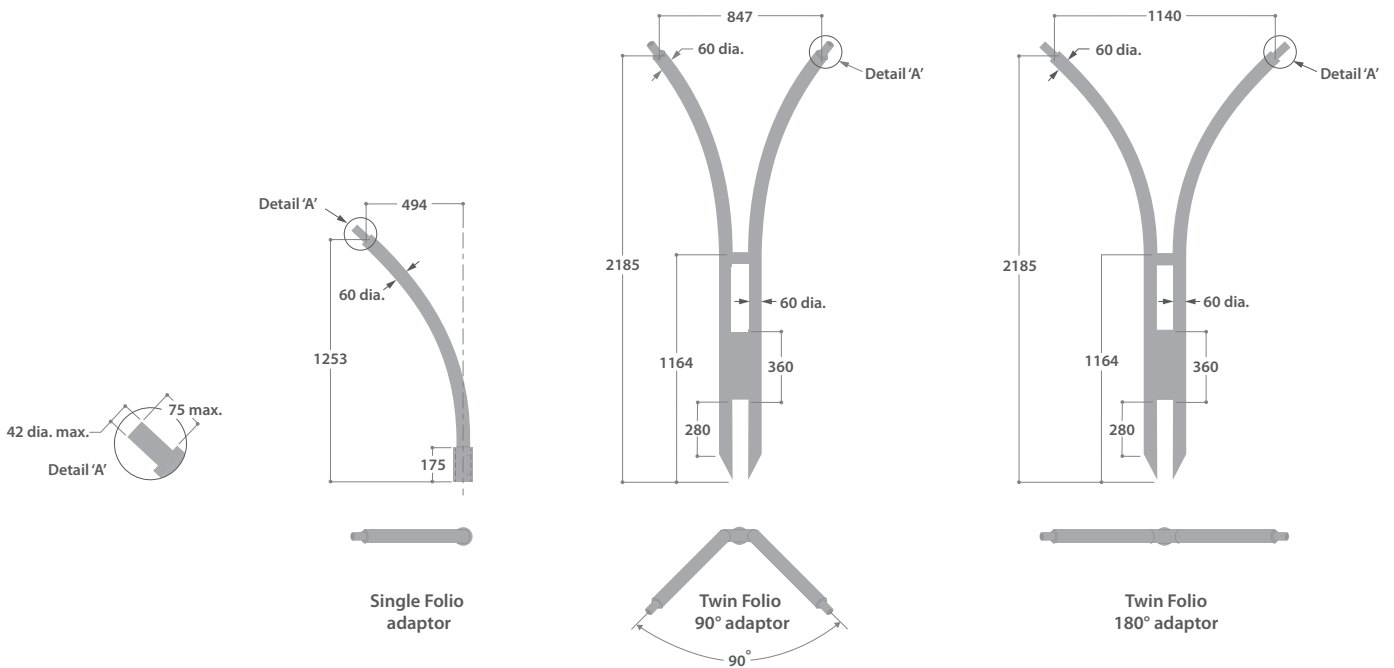
DESCRIPTION	SUFFIX	EXAMPLE
Photocell (standard versions only)	PC	FL 14472LPC

Web Link: Smart External System





**DIMENSIONS**



The Folio can also be mounted onto existing columns, or columns supplied by others, using an adaptor kit. The kit comprises Folio, adaptor and electronic driver (for mounting at column base, see Figure 1).

- Versions available for single and twin Folios
- Retro-fit adaptor arm manufactured from galvanised steel
- Suitable for existing columns with 76mm top

**RANGE**

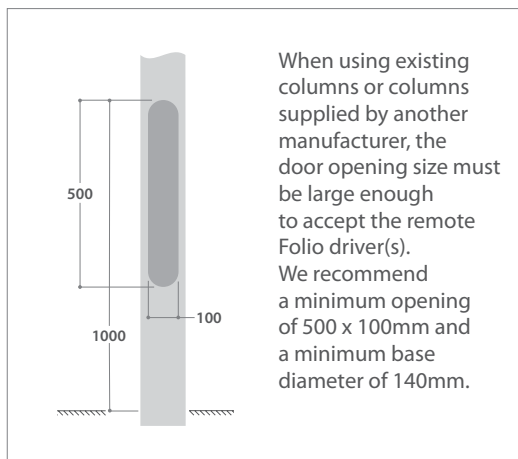
DESCRIPTION	CAT. No.	APPROX. kg
Single Folio and adaptor kit	<b>FL 14614L</b>	11.8
Twin Folio 90° and adaptor kit	<b>FL 14615L</b>	31.7
Twin Folio 180° and adaptor kit	<b>FL 14616L</b>	31.7

CIRCUIT TYPE - L - non-dimming (LED)

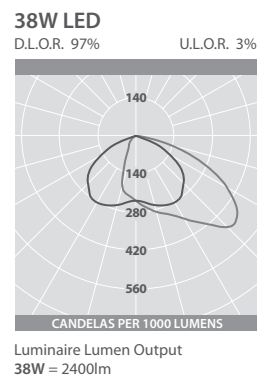
NOTE: Adaptor kit comprises Folio head unit(s), column adaptor and driver(s)



Figure 1 - Twin driver(s)



**PHOTOMETRIC GUIDE**





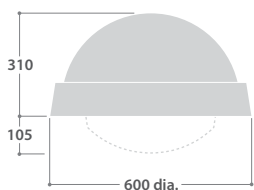
IP66 CE TC-T SON-T MBI-T WINDAGE - 0.13m<sup>2</sup>

**SPECIFICATION**

- Flat toughened/safety glass or dished UV stabilised polycarbonate covers
- Corrosion-resistant GRP body ring
- Choice of high efficiency reflectors for area or roadway light distribution (up to ME3a classification)
- ZERO upward light pollution
- Integral control gear
- Pole top, wall mount and outreach arm accessories
- Photocell option



**DIMENSIONS**



**MOUNTING OPTIONS**

**Single Pole Mount - JUN 12031**



- Formed from 3.0mm rigid steel with anti-corrosive zinc coated pre-treatment finished full polyester powder coated silver
- Decorative lower infill plate pre-treated and polyester powder coated
- Mounting pot to suit 89mm pole
- Stainless steel grub screws ensure a firm level fixing

**Twin Pole Mount - JUN 12032**



- Formed from 3.0mm rigid steel with anti-corrosive zinc coated pre-treatment finished full polyester powder coated silver
- Decorative lower infill plate pre-treated and polyester powder coated
- Mounting pot to suit 89mm pole
- Stainless steel grub screws ensure a firm level fixing

**Wall Bracket - JUN 12034**



- Formed from 3.0mm rigid steel with anti-corrosive zinc coated pre-treatment finished full polyester powder coated silver
- Decorative lower infill plate pre-treated and polyester powder coated
- Extended wall flange plate for secure fixing

**Spigot Adaptor - JUN 12033**



- Die-cast aluminium polyester powder coated silver
- Suits 32-42mm diameter outreach arms
- Stainless steel grub screws ensure a firm level fixing



**1** Housing and Cover Options

		COVER	CAT. No.	APPROX. kg
DISTRIBUTION	AREA	GLASS	<b>JUN 12044</b>	6.2
		POLYCARBONATE	<b>JUN 12050</b>	5.2
	ROADWAY	GLASS	<b>JUN 12047</b>	6.2
		POLYCARBONATE	<b>JUN 12050</b>	5.2

- A** Select distribution and cover  
e.g. **JUN 12044**
- B** Add photocell suffix **PC** if required  
e.g. **JUN 12044PC**

**2** Reflector/Gear Tray Options

	LAMP	AREA DISTRIBUTION VERSION	ROADWAY DISTRIBUTION VERSION	APPROX. kg
	57W TC-T	<b>JUN 12035J</b>	<b>JUN 12040J</b>	1.7
	70W SON-T/MBI-T	<b>JUN 12036</b>	<b>JUN 12041</b>	3.9
	100W SON-T/MBI-T	<b>JUN 12037</b>	<b>JUN 12042</b>	4.2
	150W SON-T/MBI-T	<b>JUN 12038</b>	<b>JUN 12043</b>	5.0
	250W SON-T/MBI-T	<b>JUN 12039</b>	<b>JUN 12453</b>	6.0

- C** Select reflector/gear tray  
e.g. **JUN 12035J**
- D** Add photocell suffix **PC** if required  
e.g. **JUN 12035PC**

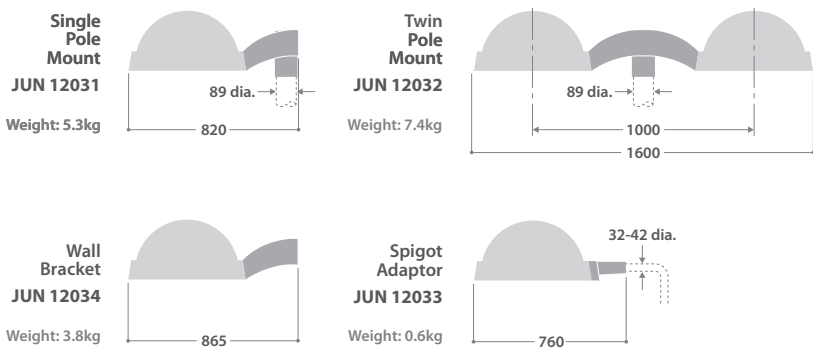
CIRCUIT TYPE - J - non-dimming (HF fluorescent)

**IMPORTANT: DO NOT USE LAMPS WITH AN INTERNAL STARTING DEVICE**

NOTE: Ceramic Metal Halide lamps (CDO-TT) may also be used in the Juno.

Lamps must be ordered separately

**3** Mounting Options



- E** Select mounting option  
e.g. **JUN 12033**

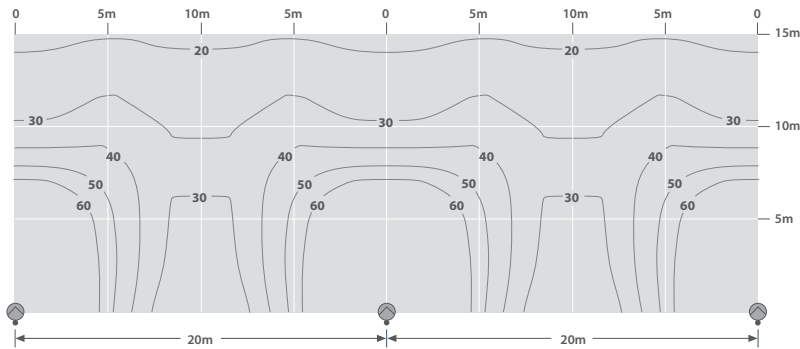
**ACCESSORIES**

DESCRIPTION	CAT. No.
Spigot centraliser - enables <b>JUN 12031</b> to be centralised when fixing to 76mm diameter spigot	<b>JUN 12132</b>
Spigot reducer - used to reduce spigot from 101mm to 89mm	<b>JUN 12133</b>

Columns p205

**PHOTOMETRIC GUIDE** - Area Distribution Reflector

**250W SON-T with glass cover at 8m mounting height - 15m forward throw**



PLAN VIEW

**57W TC-T with glass cover at 6m mounting height - 15m forward throw**

SPACING	AVERAGE ILLUMINANCE	UNIFORMITY E(min):E(av)
10m	12 lux	0.23
15m	8 lux	0.26
20m	6 lux	0.23

**150W SON-T with glass cover at 6m mounting height - 15m forward throw**

SPACING	AVERAGE ILLUMINANCE	UNIFORMITY E(min):E(av)
15m	35 lux	0.43
20m	26 lux	0.24
25m	21 lux	0.11
30m	20 lux	0.04

**250W SON-T with glass cover at 12m mounting height - 15m forward throw**

SPACING	AVERAGE ILLUMINANCE	UNIFORMITY E(min):E(av)
15m	39 lux	0.48
20m	29 lux	0.50
25m	23 lux	0.52
30m	19 lux	0.39

**150W CDO-TT with glass cover at 8m mounting height - 15m forward throw**

SPACING	AVERAGE ILLUMINANCE	UNIFORMITY E(min):E(av)
15m	26 lux	0.34
20m	20 lux	0.39
25m	16 lux	0.28
30m	13 lux	0.16

**250W SON-T with glass cover at 8m mounting height - 15m forward throw**

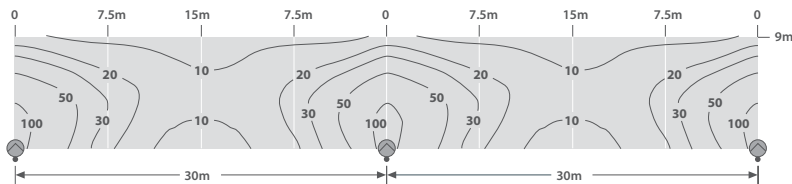
SPACING	AVERAGE ILLUMINANCE	UNIFORMITY E(min):E(av)
15m	58 lux	0.44
20m	43 lux	0.45
25m	35 lux	0.31
30m	30 lux	0.21

**250W MBI-T with glass cover at 12m mounting height - 15m forward throw**

SPACING	AVERAGE ILLUMINANCE	UNIFORMITY E(min):E(av)
15m	41 lux	0.46
20m	23 lux	0.46
25m	19 lux	0.51
30m	16 lux	0.38
35m	13 lux	0.28

**PHOTOMETRIC GUIDE** - Roadway Distribution Reflector

**150W SON-T with glass cover at 8m mounting height - 9m forward throw**



PLAN VIEW

**57W TC-T with glass cover at 6m mounting height - 9m forward throw**

SPACING	AVERAGE ILLUMINANCE	UNIFORMITY E(min):E(av)
25m	10 lux	0.35
30m	8 lux	0.25

**150W SON-T with glass cover at 6m mounting height - 9m forward throw**

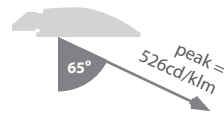
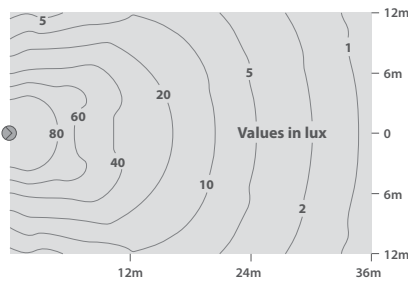
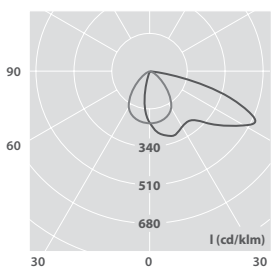
SPACING	AVERAGE ILLUMINANCE	UNIFORMITY E(min):E(av)
25m	32 lux	0.34
30m	28 lux	0.25

FIGURES ARE BASED ON INITIAL LUMENS

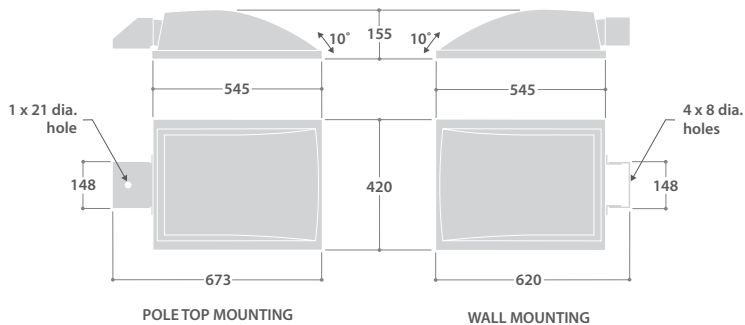


## PHOTOMETRIC GUIDE

250W SON-T / 28000lm / 8m mounting height



## DIMENSIONS



## OPTIONS

DESCRIPTION	SUFFIX	EXAMPLE
Photocell	PC	STG 10912PC



IP65 CE TC-T SON-T MBI-T WINDAGE - 0.10m<sup>2</sup>

### SPECIFICATION

- Corrosion-resistant and fire-retardant GRP moulded body - light grey finish
- Clear toughened/safety glass cover
- Aluminium heat sink ensures cool running of control gear for optimum life in high ambient temperatures
- ZERO upward light pollution
- High elevation peak beam angle for outstanding area coverage relative to mounting height
- High beam efficiency with low glare
- Pole top or wall mounted versions
- Photocell option
- Fitted with lamp

### MOUNTING BRACKETS



Wall mounting bracket



Pole top mounting bracket



### RANGE

LAMP	WALL MOUNTED VERSION	APPROX. kg	POLE TOP VERSION	APPROX. kg
<b>High pressure sodium lamps</b>				
150W SON-T	<b>STG 10912</b>	10.3	<b>STG 11000</b>	10.5
250W SON-T	<b>STG 10913</b>	10.8	<b>STG 11001</b>	11.0
<b>Metal halide lamps - compatible with high pressure sodium control gear</b>				
150W MBI-T ▲	<b>STG 10909</b>	10.3	<b>STG 10997</b>	10.5
250W MBI-T ▲	<b>STG 10910</b>	10.8	<b>STG 10998</b>	11.0
<b>Metal halide lamps - compatible with mercury (MBF) control gear and semi-parallel ignitor</b>				
250W MBI-T ■	<b>STG 10911</b>	10.1	<b>STG 10999</b>	10.3
<b>Compact fluorescent lamps</b>				
42W TC-T ●	<b>STG 13428J</b>	7.1	<b>STG 13426J</b>	7.3
57W TC-T ●	<b>STG 13429J</b>	7.1	<b>STG 13427J</b>	7.3

CIRCUIT TYPE - J - non-dimming (HF fluorescent)

IMPORTANT: DO NOT USE LAMPS WITH AN INTERNAL STARTING DEVICE

NOTE: Pole top versions - Mounting pots or crossarms are required for this fitting and must be ordered separately

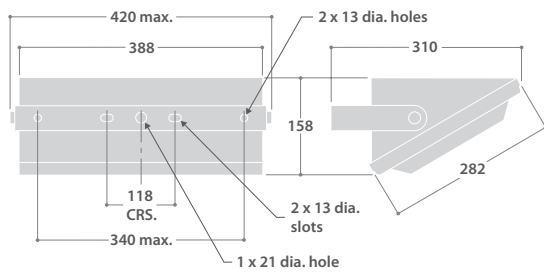
▲ Venture Whitelux 4000K fitted

■ Philips HPIT Plus 4500K fitted

● 4000K lamp fitted

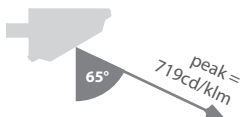
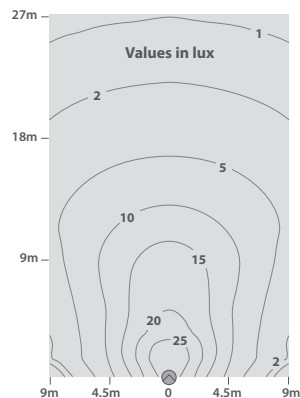
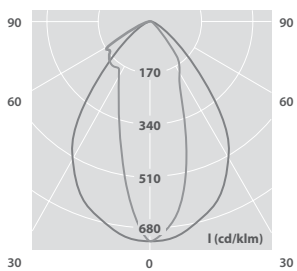


## DIMENSIONS



## PHOTOMETRIC GUIDE

70W SON-T Plus / 6600lm / 6m mounting height



IP65 CE TC-T SON-T MBI-T WINDAGE - 0.11m<sup>2</sup>

**SPECIFICATION**

- Corrosion-resistant and fire-retardant GRP moulded body finished off white
- Impact resistant polycarbonate front cover
- Photocell option
- White light metal halide option
- 42W TC-T version uses tri-lamp ballast enabling retro-fit of 26 and 32 watt lamps
- Fitted with lamp



**ACCESSORIES**

DESCRIPTION	CAT. No.
Pole clamp assembly - for 48-60mm dia. poles	<b>PC 7778</b>
Pole clamp assembly - for 76-89mm dia. poles	<b>PC 7779</b>

**OPTIONS**

DESCRIPTION	SUFFIX	EXAMPLE
Photocell	<b>PC</b>	<b>AZ 7708PC</b>

**RANGE**

LAMP	CAT. No.	APPROX. kg
<b>High pressure sodium lamps</b> 70W SON-T Plus ▲	<b>AZ 7708</b>	6.9
<b>Metal halide lamps</b> - compatible with high pressure sodium control gear 70W MBI-T UV Reduced ■	<b>AZ 11597</b>	6.9
<b>Compact fluorescent lamps</b> 42W TC-T ● 57W TC-T ●	<b>AZ 13424J</b> <b>AZ 13425J</b>	5.6 5.6

CIRCUIT TYPE - J - non-dimming (HF fluorescent)

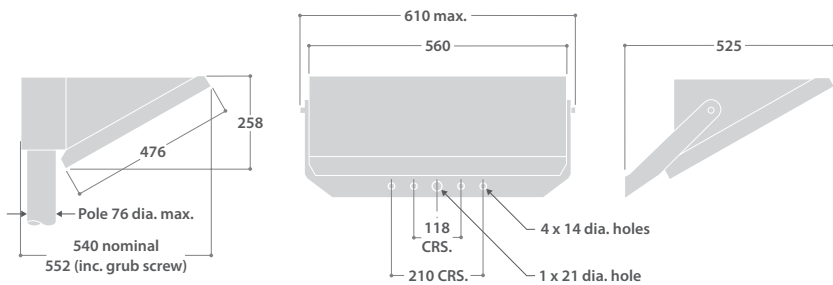
IMPORTANT: DO NOT USE LAMPS WITH AN INTERNAL STARTING DEVICE

- ▲ Philips SON-T Plus fitted
- Philips HPIT Plus 4500K fitted
- 4000K lamp fitted



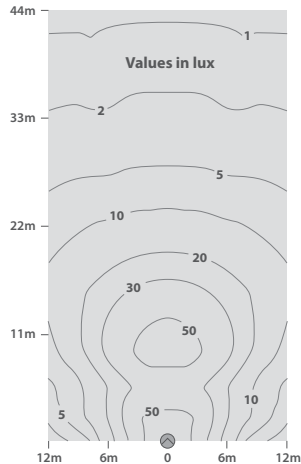
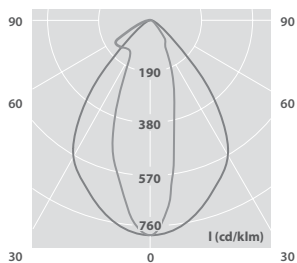


## DIMENSIONS



## PHOTOMETRIC GUIDE

250W SON-T (Fixed-head) / 28000lm / 8m mounting height



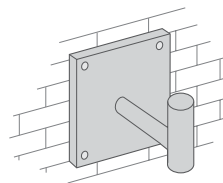
## ACCESSORIES

### DESCRIPTION

- Wall bracket - for use with fixed-head versions
- Pole clamp assembly - for use with cradle mounted versions (for 50-100m dia. poles)
- Pole top adaptor - for mounting one fixed-head luminaire on 89mm dia. poles

### CAT. No.

- AZ 7277**
- PC 5108**
- AZ 7279**



### Wall bracket - AZ 7277

For use with fixed-head versions. Allows adjustment in the azimuth plane. Steel, galvanised.

Fixings: 4 x 14 diameter holes on 230 x 230 centres.

## OPTIONS

### DESCRIPTION

### SUFFIX

### EXAMPLE

Photocell ▲

PC

AZ 10180PC

▲ Not BSI Kitemarked or ENEC approved



**SPECIFICATION**

- Corrosion-resistant and fire-retardant GRP moulded body finished off white
- Clear toughened/safety glass cover
- Fixed-head or cradle mounted versions
- Galvanised steel mounting cradle
- Photocell option
- BSI Kitemarked and ENEC approved versions



Cradle mount version



Fixed-head version

**RANGE**

	LAMP	FIXED-HEAD VERSION	APPROX. kg	CRADLE VERSION	APPROX. kg	
<b>LESS CONTROL GEAR</b>	150/400W	<b>AZ 10180</b>	9.9	<b>AZ 10186</b>	9.8	✓
<b>WITH CONTROL GEAR</b>	<b>High pressure sodium lamps</b>					
	150W SON-T	<b>AZ 10181</b>	14.8	<b>AZ 10187</b>	14.8	✓
	250W SON-T	<b>AZ 10182</b>	15.4	<b>AZ 10188</b>	15.3	✓
	400W SON-T	<b>AZ 10183</b>	15.4	<b>AZ 10189</b>	15.3	✓
	<b>Metal halide lamps - compatible with high pressure sodium control gear</b>					
	150W MBI-T	<b>AZ 10181</b>	14.8	<b>AZ 10187</b>	14.8	✓
	250W MBI-T	<b>AZ 10182</b>	15.4	<b>AZ 10188</b>	15.3	✓
400W MBI-T	<b>AZ 10183</b>	15.4	<b>AZ 10189</b>	15.3	✓	

**IMPORTANT: DO NOT USE LAMPS WITH AN INTERNAL STARTING DEVICE**  
**ELLIPTICAL LAMPS:** Floodlights are supplied set for tubular lamps. A lampholder adjustment is required before using elliptical lamps  
 Lamps must be ordered separately

IP65 CE SON-TD MBIL WINDAGE - 0.09m<sup>2</sup>



### SPECIFICATION

- Strong die-cast aluminium body finished full polyester powder black
- Hinged clear toughened/safety glass cover
- Galvanised steel mounting cradle
- Axially symmetrical light distribution

### ACCESSORIES

DESCRIPTION	CAT. No.
Pole clamp, vertical mounting <i>(for 50-100m dia. poles)</i>	<b>PC 6289</b>

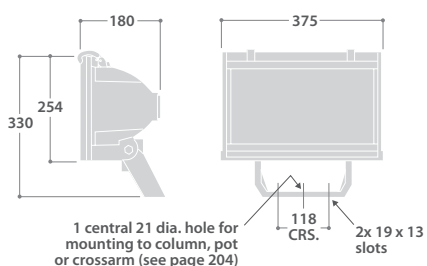
### RANGE

LAMP	MANUFACTURER	CAT. No.	REFLECTOR DISTRIBUTION	APPROX. kg
<b>Tungsten Halogen lamp</b> (not available from Thorlux)				
750/1000W	Any	<b>STF 5281</b>	Broad	5.0
1500W	Any	<b>STF 5280</b>	Broad	5.0
<b>Linear high pressure sodium lamps</b> ▲				
400W SON-TD	G/B	<b>STF 8256</b> ■	Broad	5.0
<b>Linear metal halide lamps</b> ●				
1kW MBIL	VS	<b>STF 8256</b> ■	Broad	5.0

- ▲ G - GE Lucalox B - BLV HST-DE
- Less control gear
- VS - Venture

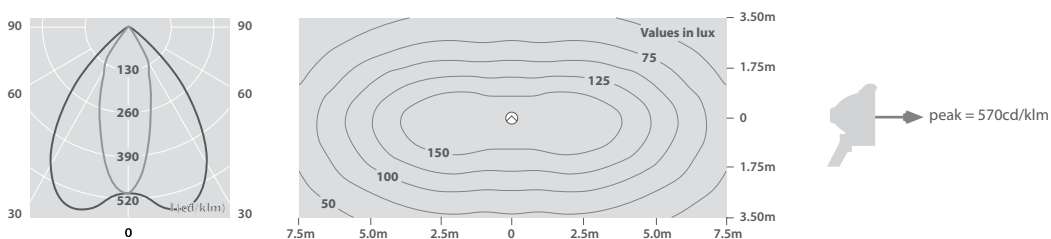
Lamps must be ordered separately

### DIMENSIONS



### PHOTOMETRIC GUIDE

1500W broad / 33000lm / 10m offset









**SPECIFICATION**

- 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
- Fitted with 4000K LEDs

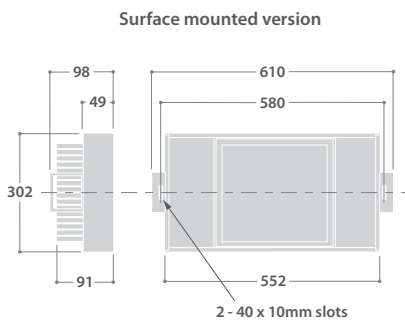
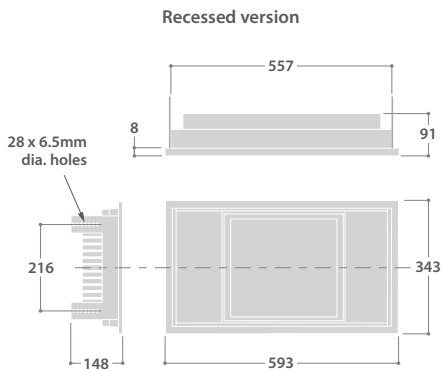


**LED CHARACTERISTICS**

Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/CW
70+	4000	60K	P	>90	R	>0.95	72.9

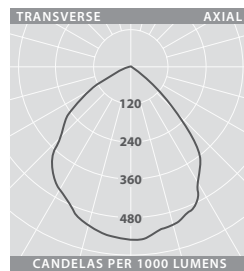
For LED characteristics explanation see [www.thorlux.com/led-characteristics](http://www.thorlux.com/led-characteristics)

**DIMENSIONS**



**PHOTOMETRIC GUIDE**

**110W LED**



Luminaire Lumen Output  
110W = 9120lm



**RANGE**

	MOUNTING	LED	CAT. No.	APPROX. kg
<b>SMART EXTERNAL</b>	Recessed	110W	<b>CX 14642D</b>	14.4
	Surface Mounted	110W	<b>CX 14644D</b>	10.1
<b>STANDARD</b>	Recessed	110W	<b>CX 14641L</b>	14.3
	Surface Mounted	110W	<b>CX 14643L</b>	10.0

**CIRCUIT TYPE - L - non-dimming (LED)**

Smart External versions use digital dimming gear and are always suffixed D

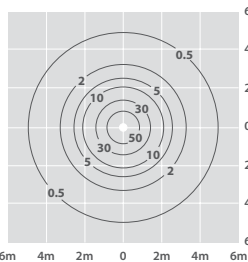
Web Link: [Smart External System](#)





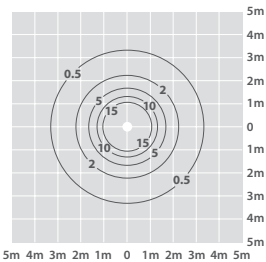
**PHOTOMETRIC GUIDE**

**PROBE -  
70W SON-T PLUS LAMP**  
INITIAL LUX LEVELS AT GROUND



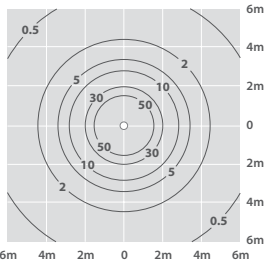
Factor:  
70W MBI-UV reduced lamp = 0.68

**PROBE -  
24W LED**  
INITIAL LUX LEVELS AT GROUND



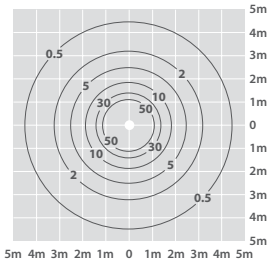
Luminaire Lumen Output  
24W = 195lm

**PROBE-XL -  
70W SON-T PLUS LAMP**  
INITIAL LUX LEVELS AT GROUND



Factor:  
70W MBI-UV reduced lamp = 0.68

**PROBE-XL - 24W LED -  
1040mm VERSION**  
INITIAL LUX LEVELS AT GROUND



Luminaire Lumen Output  
24W = 575lm

IP66 IK10 CE TC-T SON-T MBI LED

**SPECIFICATION**

- Surface or root mounted accessories
- Integral control gear
- Fused mains terminal block
- LED versions fitted with 6000K LEDs

**PROBE**

- Low glare, round top bollard, aluminium construction finished black
- Clear polycarbonate lamp cover

**PROBE-XL**

- High efficiency flat top bollard, aluminium construction finished black
- Linear prismatic polycarbonate lamp cover

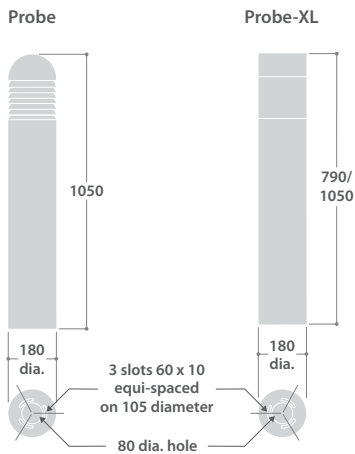


**LED CHARACTERISTICS**

Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/CW
65	6000	60K	P	>85	R	>0.95	Probe - 7.2 Probe-XL -21.3

For LED characteristics explanation see [www.thorlux.com/led-characteristics](http://www.thorlux.com/led-characteristics)

**DIMENSIONS**



**ACCESSORIES**

DESCRIPTION	CAT. No.
500mm root mounting extension	<b>PRB 12128</b>
Mounting adaptor for cast concrete	<b>PRB 12129</b>

**RANGE**

LAMP	PROBE VERSION	PROBE-XL 790mm VERSION	PROBE-XL 1040mm VERSION	APPROX. kg
24W LED	<b>PRB 14443L</b>	<b>PRB 14530L</b>	<b>PRB 14442L</b>	9.8
70W SON-T Plus	<b>PRB 12123</b>	<b>PRB 13782</b>	<b>PRB 12125</b>	10.6
70W MBI - UV Reduced				
57W TC-T	<b>PRB 12124J</b>	<b>PRB 13783J</b>	<b>PRB 12126J</b>	9.2

CIRCUIT TYPE - J - non-dimming (HF fluorescent) / L - non-dimming (LED)

IMPORTANT: DO NOT USE LAMPS WITH AN INTERNAL STARTING DEVICE

Lamps must be ordered separately





## LEDbar



The LEDbar substitutes the conventional Realta lamp source with an 18W LED lamp package. The aluminium bar dissipates the heat generated by the LEDs for optimum performance.

## ACCESSORIES



Single luminaire pole mounting attachment



Twin luminaire pole mounting attachment

### DESCRIPTION

Single luminaire pole mounting attachment (for 60mm dia. poles)  
 Twin luminaire pole mounting attachment (for 60mm dia. poles)  
 76/60mm dia. spigot adaptor (for retro-fit on 76mm dia. columns)

### CAT. No.

**RL 13759**  
**RL 14175**  
**GLB 11184**

### APPROX. kg

1.6  
 2.6  
 0.8



### SPECIFICATION

- Graphite full polyester powder finish. Silver option
- Strong die-cast LM2 aluminium body
- High efficiency prismatic polycarbonate or borosilicate glass front refractor
- 50W SON-T version replaces the need for 70W SON-T
- LED version with excellent performance
- Highly specular, multi-faceted injection moulded vacuum metallised reflector
- Excellent distribution with less than 2% upward light component
- Optional photocell control
- TC-T versions with high frequency tri-lamp ballast enables retro-fit of 26 and 32W lamps
- Conventionally switched and Smart External versions
- Fitted with lamp(s) or 5000K LEDs



Realta Design Registration Number 3024955

### RANGE

LED CHARACTERISTICS							
Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/CW
65	5000	60K	P	>85	R	>0.95	Poly - 61.9 Glass - 52.4

For LED characteristics explanation see [www.thorlux.com/led-characteristics](http://www.thorlux.com/led-characteristics)

### OPTIONS

DESCRIPTION	SUFFIX	EXAMPLE
Photocell ( <i>standard versions only</i> )	PC	RL 14436LPC
Tamper resistant screws ♦	T	RL 14436T

♦ To fasten tamper resistant screws order special screwdriver **KEY 10008**

	LAMP	CAT. No.	APPROX. kg	
SMART EXTERNAL	IK10++ Polycarbonate Cover 18W LED ●	RL 14437D	3.9	
	STANDARD	IK10++ Polycarbonate Cover 18W LED ●	RL 14436L	3.8
		35W CDM-T ▲	RL 13538	3.6
		42W TC-T ■●	RL 13535J	3.6
50W SON-T		RL 13536	4.6	
STANDARD	IK06 Glass Cover 18W LED ●	RL 14438L	4.6	
	35W CDM-T ▲	RL 13531	4.5	
	42W TC-T ■●	RL 13528J	4.5	
	50W SON-T	RL 13529	5.5	

CIRCUIT TYPE - J - non-dimming (HF fluorescent) / L - non-dimming (LED)

SILVER OPTION - add suffix **SV3** e.g. **RL 14437DSV3** etc.

▲ 3000K lamp fitted

■ 4000K lamp fitted

● EMERGENCY VERSION - prefix catalogue number with:

**ERL** - Emergency / **TRL** - AutoTest / **DRL** - Scanlight AT e.g. **ERL 13535J** etc.

Emergency, AutoTest and Scanlight AT versions add 0.4kg to weights listed

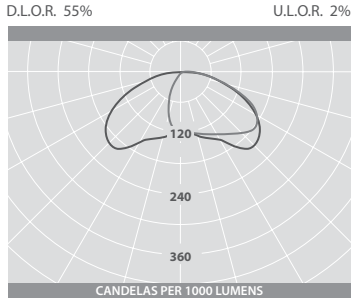
Emergency operation is provided by a sustained emergency lamp (fitted) - 2W LED (LED versions) or 5W TC-S (Lamp versions)

35W CDM-T and 42W TC-T versions use electronic control gear

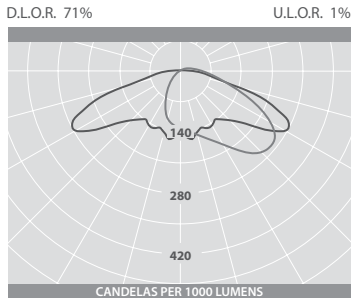
Web Link: [Smart External System](#)

## PHOTOMETRIC GUIDE

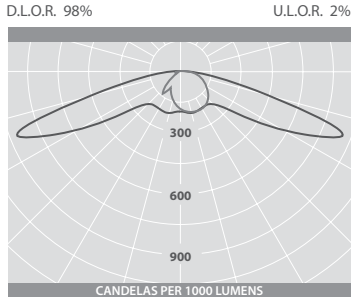
### POLYCARBONATE COVER - 42W TC-T



### POLYCARBONATE COVER - 50W SON-T



### POLYCARBONATE COVER - 18W LED

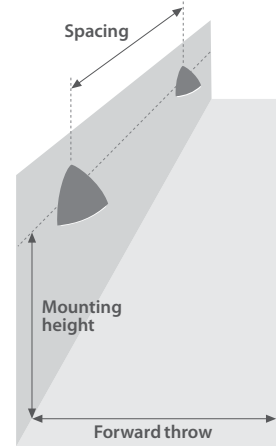


Luminaire Lumen Output  
18W = 1300lm

## PERFORMANCE GUIDE

### Photometric Performance - 18W LED with polycarbonate cover

SPACING	AVERAGE ILLUMINANCE	UNIFORMITY (min/av)
<b>3m mounting height - 3m forward throw</b>		
10m ctrs	18 lux	0.53
15m ctrs	12 lux	0.49
20m ctrs	10 lux	0.35
<b>4m mounting height - 4m forward throw</b>		
10m ctrs	15 lux	0.64
15m ctrs	9 lux	0.55
20m ctrs	7 lux	0.49
<b>5m mounting height - 5m forward throw</b>		
10m ctrs	10 lux	0.56
15m ctrs	7 lux	0.49
20m ctrs	5 lux	0.55



e.g. At 3m mounting height and 10m centres: 18 lux average horizontal illuminance at ground level

FIGURES ARE BASED ON INITIAL LUMENS

## ENERGY SAVINGS COMPARISON - Installation of 25 luminaires

	42W CFL	18W LED SMART	SAVING
Circuit (W)	47	24	23
Burn hours per annum	4,380	1,095 ▲	3,285
Annual kWh	5,147	1,314	3,833
CO <sub>2</sub> (kg)	2,728	696	2,032
Cost ■	£617.58	£78.84	£538.74

- ▲ On-time reduced due to Smart presence detection
- Based on 12p/kWh

## 25 YEAR LIFE COSTING ANALYSIS - Installation of 25 luminaires

	42W CFL	18W LED SMART	SAVING
Number of lamps replaced	125	0	125
Total cost of relamping ▲	£17,913	£0	£17,913
Power usage for site (kWh)	128,663	32,850	95,813
Electricity cost ▲ ■	£25,719	£3,283	£22,436
CO <sub>2</sub> (kg)	68,430	17,560	50,970
Number of trees required to absorb CO <sub>2</sub> produced	69	18	51

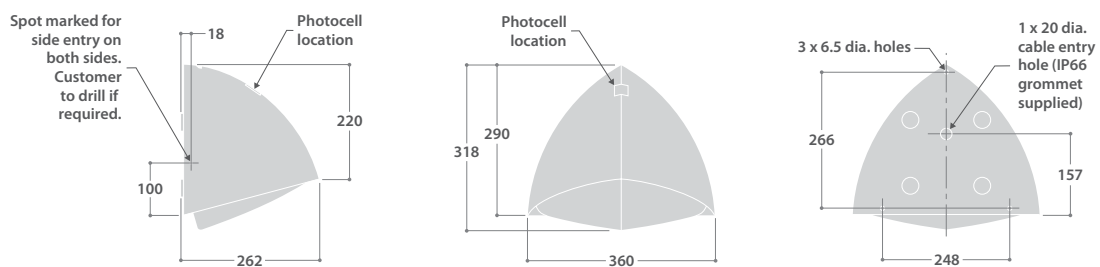
- ▲ Based on inflation rate of 4% each year (includes travelling, access equipment, re-lamping and labour for 2 maintenance engineers)
- Based on 12p/kWh





LED version

**DIMENSIONS**





IP66 IK10++ CE TC-S LED

**SPECIFICATION**

- Graphite full polyester powder finish. Silver option
- White polyester powder coated internal gear tray/reflector
- Strong die-cast LM2 aluminium body
- One piece injection moulded UV stabilised polycarbonate cover
- Compact fluorescent or LED lamp sources
- Fitted with 4000K lamp or 6000K LEDs



Silver version

**LED CHARACTERISTICS**

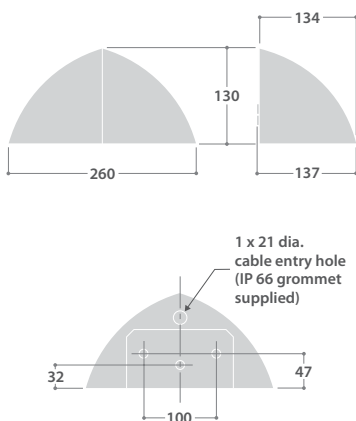
Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/CW
65	6000	60K	n/a	40	R	0.5	37.8

For LED characteristics explanation see [www.thorlux.com/led-characteristics](http://www.thorlux.com/led-characteristics)

**RANGE**

	LAMP	CAT. No.	APPROX. kg
MAINS	5W TC-S	RL 13542J	1.3
	3W LED	RL 13543L	1.3
EMERGENCY	5W TC-S ■	ERL 13542J	1.3
AUTOTEST	5W TC-S ■	TRL 13542J	1.3
	3W LED ▲	TRL 13543L	1.3
SCANLIGHT AT	5W TC-S ■	DRL 13542J	1.3
	3W LED ▲	DRL 13543L	1.3

**RANGE**



CIRCUIT TYPE - J - non-dimming (HF fluorescent) / L - non-dimming (LED)

SILVER OPTION - add suffix SV3 e.g. RL 13542JSV3 etc.

■ Non-maintained

▲ Maintained (remove wire link for non-maintained operation)

**ACCESSORY**

DESCRIPTION	CAT. No.	APPROX. kg
Wall mounting kit for 20mm conduit (side entry only)	RL 15419	0.4



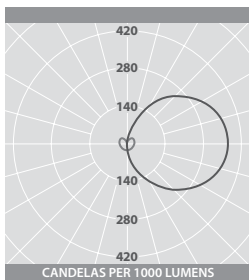
Web Link: Scanlight AT System





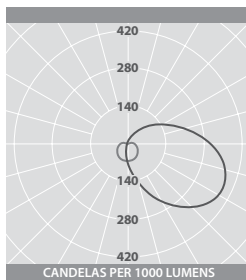
## PHOTOMETRIC GUIDE

### 15/23W LED - PLAIN VERSION



Luminaire Lumen Output  
15W = 1070lm  
23W = 1450lm

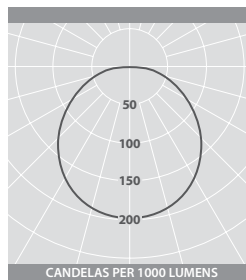
### 18W LED - HOOD VERSION



Luminaire Lumen Output  
18W = 720lm

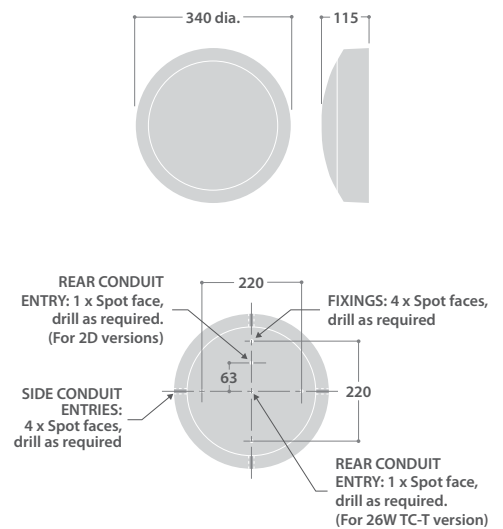
### 38W 2D LAMP (Ceiling mounted)

D.L.O.R. 59% U.L.O.R. 0%



Factor:  
28W 2D OPAL = 0.75  
38W 2D OPAL = 0.75  
28W 2D SATIN = 1.03

## DIMENSIONS



## OPTIONS

DESCRIPTION	SUFFIX	EXAMPLE
Photocell ▲	PC	CT 14441LPC

▲ Hood / hood & grill versions only

## ACCESSORIES

DESCRIPTION	CAT. No.
Tamper-resistant screw kit including key	CT 11699



**SPECIFICATION**

- Strong die-cast LM2 aluminium body and cover frame. Graphite, full polyester powder finish as standard
- Silver or white finish options
- Two diffuser options - opal or high efficiency satin polycarbonate
- Choice of cover styles
- Complies with M.O.D. JSP482 Chapter 8 Document for 'Category C' areas
- Photocell option
- Fitted with lamp or 5000K/6000K LEDs



Hood & Grill



Plain



Hood



Plain & Grill

**LED CHARACTERISTICS**

Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/CW
65	15/23W - 6000 18W - 5000	60K	P	>90	R	>0.95	15W Plain - 59.4 / Plain & Grill - 39.7 23W Plain - 58.0 / Plain & Grill - 38.4 18W Hood - 32.7 / Hood & Grill - 35.0

For LED characteristics explanation see [www.thorlux.com/led-characteristics](http://www.thorlux.com/led-characteristics)

**DIFFUSER OPTIONS**



High Efficiency Satin Diffuser



Opal Diffuser

**RANGE**

	LAMP	PLAIN VERSION	HOOD VERSION	APPROX. kg	PLAIN & GRILL VERSION	HOOD & GRILL VERSION	APPROX. kg
<b>HIGH EFFICIENCY SATIN DIFFUSER</b>	15W LED	<b>CT 14538L</b>		3.0	<b>CT 14540L</b>		3.2
	18W LED		<b>CT 14441L</b>	3.0		<b>CT 14504L</b>	3.2
	23W LED	<b>CT 14542L</b>		3.0	<b>CT 14544L</b>		3.2
	26W TC-T ■		<b>CT 11572J ◆</b>	3.3		<b>CT 11581J ◆</b>	3.5
	28W 2D ▲	<b>CT 11573J</b>		3.7	<b>CT 11574J</b>		3.9
	38W 2D ▲	<b>CT 11575J</b>		3.7	<b>CT 11576J</b>		3.9
<b>OPAL DIFFUSER</b>	26W TC-T ■		<b>CT 11460J ◆</b>	3.1		<b>CT 11461J ◆</b>	3.3
	28W 2D ▲	<b>CT 11462J</b>		3.5			
	38W 2D ▲	<b>CT 11464J</b>		3.5			

- ▲ 3500K lamp fitted
- 4000K lamp fitted
- ◆ Photocell option

CIRCUIT TYPE - J - non-dimming (HF fluorescent) / L - non-dimming (LED)

COLOUR OPTIONS - add suffix: **SV3** - Silver / **W9** - White e.g. **CT 14538LSV3** etc.

EMERGENCY VERSION - prefix catalogue number with:

**ECT** - Emergency / **TCT** - AutoTest / **DCT** - Scanlight AT (LED versions only) e.g. **ECT 14538L** etc.

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

**NOTE: Lamp more visible with High Efficiency Satin Diffuser than Opal Diffuser when lit**

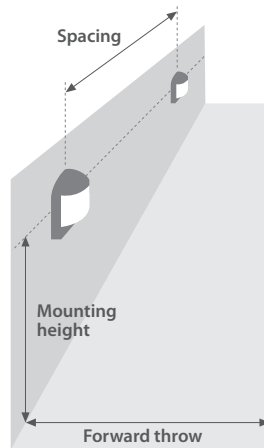




## PERFORMANCE GUIDE

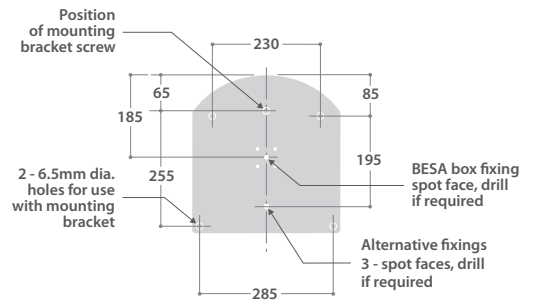
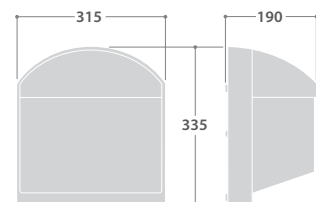
### Photometric Performance - 70W SON-T Plus

SPACING	AVERAGE ILLUMINANCE	UNIFORMITY (min/av)
<b>3m mounting height - 5m forward throw</b>		
12m ctrs	37 lux	0.35
15m ctrs	30 lux	0.30
18m ctrs	25 lux	0.23
21m ctrs	22 lux	0.20
24m ctrs	19 lux	0.15
<b>4m mounting height - 6m forward throw</b>		
12m ctrs	28 lux	0.42
16m ctrs	22 lux	0.40
20m ctrs	18 lux	0.30
24m ctrs	15 lux	0.23
28m ctrs	13 lux	0.18
<b>5m mounting height - 7m forward throw</b>		
15m ctrs	18 lux	0.41
20m ctrs	14 lux	0.40
25m ctrs	12 lux	0.28
30m ctrs	10 lux	0.21



e.g. At 3m mounting height and 12m centres: 37lux average horizontal illuminance at ground level over an area of 12m (centres) x 5m (forward throw)

## DIMENSIONS



FIGURES ARE BASED ON INITIAL LUMENS





**SPECIFICATION**

- Strong pressure die-cast LM2 aluminium body prevents distortion when fixing and preserves IP rating. Textured black full polyester powder finish
- Impact-resistant, flame-retardant prismatic polycarbonate cover
- Spacings up to eight times mounting height
- Optional photocell control
- Tamper-resistant cover screws available
- Simple to fix using external stainless-steel brackets and two lower points, all external to gasket line to preserve IP rating
- Complies with M.O.D. JSP482 Chapter 8 Document for 'Category C' areas
- TC-T version uses tri-lamp ballast enabling retro-fit of 26 and 32 watt lamps
- BSI Kitemarked and ENEC approved versions
- Fitted with lamp



**OPTIONS**

DESCRIPTION	SUFFIX	EXAMPLE
Photocell ▲	PC	MER 9953PC
Tamper resistant screws ◆	T	MER 9953T
Fused terminal block	FF	MER 9953FF

- ▲ Not BSI Kitemarked or ENEC approved
- ◆ To fasten tamper resistant screws order special screwdriver **KEY 10008**

**RANGE**

	LAMP	CAT. No.	APPROX. kg	APPROVED
<b>MAINS</b>	70W SON-T Plus	<b>MER 9953</b>	4.3	✓
	70W MBI - UV Reduced ▲	<b>MER 9954 ◆</b>	4.3	✓
	42W TC-T ■	<b>MER 9955J</b>	2.8	✓
<b>EMERGENCY</b>	42W TC-T ■	<b>EMR 9955J</b>	3.5	
<b>AUTOTEST</b>	42W TC-T ■	<b>TMR 9955J</b>	3.5	

CIRCUIT TYPE - J - non-dimming (HF fluorescent)

**IMPORTANT: DO NOT USE LAMPS WITH AN INTERNAL STARTING DEVICE**

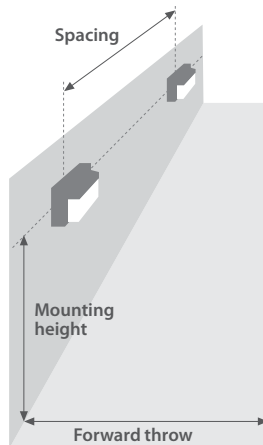
- ▲ Venture Whitelux 4000K fitted
- 4000K lamp fitted
- ◆ Metal Halide lamps (Compatible with high pressure sodium control gear)



## PERFORMANCE GUIDE

### Photometric Performance - 70W SON-E

SPACING	AVERAGE ILLUMINANCE	UNIFORMITY (min/av)
<b>3m mounting height - 5m forward throw</b>		
12m ctrs	27 lux	0.33
15m ctrs	21 lux	0.25
18m ctrs	18 lux	0.15
<b>4m mounting height - 6m forward throw</b>		
12m ctrs	24 lux	0.49
16m ctrs	19 lux	0.35
20m ctrs	15 lux	0.24
24m ctrs	12 lux	0.14
<b>5m mounting height - 7m forward throw</b>		
15m ctrs	13 lux	0.51
20m ctrs	11 lux	0.36
25m ctrs	8 lux	0.23
30m ctrs	6 lux	0.14



e.g. At 3m mounting height and 12m centres: 27lux average horizontal illuminance at ground level over an area of 12m (centres) x 5m (forward throw)

FIGURES ARE BASED ON INITIAL LUMENS

## ACCESSORIES

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

## OPTIONS

DESCRIPTION	SUFFIX	EXAMPLE
Photocell ▲	<b>PC</b>	<b>PL 6449PC</b>

See range table for availability

▲ Not BSI Kitemarked or ENEC approved



**SPECIFICATION**

- 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
- Complies with M.O.D. JSP482 Chapter 8 Document for 'Category C' areas (up to 70W)
- BSI Kitemarked and ENEC approved versions

**LED Version**

- High power white LEDs
- Aluminium gear tray with LED heat sink bar
- Fitted with 4000K LEDs

**LED CHARACTERISTICS**

Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/CW
70	4000	>60K	P	>85	R	>0.95	70.0

For LED characteristics explanation see [www.thorlux.com/led-characteristics](http://www.thorlux.com/led-characteristics)



Wire guard



LED retro-fit gear tray



**RANGE**

	LAMP	CAT. No.	APPROX. kg	PHOTOCELL OPTION	APPROVED
GLASS COVER	24W LED	<b>PL 14898L</b>	6.6		
	38W LED	<b>PL 14900L</b>	6.6		
	200W (max.) GLS	<b>PL 6294</b>	5.6	100W (max.) ★	✓
	80W MBF	<b>PL 6234</b>	7.7	★	✓
	125W MBF	<b>PL 6935</b>	7.8		
	70W SON-E	<b>PL 6235</b>	7.9	★	✓
	100W SON-E	<b>PL 6922 ▲ ■</b>	8.2		
	70W MBIE	<b>PL 6235 ◆</b>	7.9	★	
	100W MBIE	<b>PL 11065 ◆</b>	8.2		
	26/32/42W TC-T	<b>PL 11922J ●</b>	5.7	★	
57W TC-T	<b>PL 11923J</b>	5.7	★		
POLYCARBONATE COVER	24W LED	<b>PL 14897L</b>	4.4		
	38W LED	<b>PL 14899L</b>	4.4		
	150W (max.) GLS	<b>PL 6295</b>	3.4	100W (max.) ★	✓
	70W SON-E	<b>PL 6281</b>	5.7	★	✓
	100W SON-E	<b>PL 6923 ▲ ■</b>	6.0		
	70W MBI - UV Reduced	<b>PL 6281 ◆</b>	5.7	★	
	26/32/42W TC-T	<b>PL 11932J ●</b>	3.5	★	
	57W TC-T	<b>PL 11933J</b>	3.5	★	
LED RETRO-FIT GEAR TRAY	24W LED	<b>PL 14930L</b>	1.6		
	38W LED	<b>PL 14931L</b>	1.6		

CIRCUIT TYPE - J - non-dimming (HF fluorescent) / L - non-dimming (LED)

IMPORTANT: DO NOT USE LAMPS WITH AN INTERNAL STARTING DEVICE

- ▲ GES lampholder
- Elliptical lamp only
- ◆ Metal Halide lamps (Compatible with high pressure sodium control gear)
- With high frequency tri-lamp ballast suitable for operation of 26, 32 or 42W lamps
- ★ Option available

Lamps must be ordered separately





## SPECIFICATION

- Strong pressure die-cast LM2 aluminium body. Textured black, full polyester powder finish as standard
- White option finish
- Hinged clear prismatic (or satin option on LED versions), flame-retardant polycarbonate cover
- Tamper-resistant cover screws as standard
- Optional photocell control
- Bezel for semi-recessed mounting
- Complies with M.O.D. JSP482 Chapter 8 Document for 'Category C' areas
- Fitted with 3500K lamp or 4000K LEDs



Bezel for semi-recessed mounting - black



LED version - Clear cover



LED version - Satin cover

## LED CHARACTERISTICS

Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/CW
80	4000	50K	P	85	R	>0.95	77.9

For LED characteristics explanation see [www.thorlux.com/led-characteristics](http://www.thorlux.com/led-characteristics)

## ACCESSORIES

DESCRIPTION	CAT. No.
Bezel for semi-recessed mounting ( <i>black finish</i> )	<b>PS 11876B</b>
Bezel for semi-recessed mounting ( <i>white finish</i> )	<b>PS 11876W</b>
Key for tamper-resistant screw kit	<b>KY 7979</b>

## OPTIONS

DESCRIPTION	SUFFIX	EXAMPLE
Photocell ▲	<b>PC</b>	<b>PS 8128PC</b>

▲ Not available on LED or recessed versions

## RANGE

	LAMP	CAT. No.	APPROX. kg
CLEAR COVER	16W LED	<b>PS 14913L</b>	2.8
	21W 2D	<b>PS 8128J</b>	3.2
	28W 2D	<b>PS 7951J</b>	3.2
	38W 2D	<b>PS 7952J</b>	3.2
SATIN COVER	16W LED	<b>PS 14914L</b>	2.8
RETRO-FIT GEAR TRAY	16W LED	<b>PS 14917L</b>	0.8

WHITE OPTION - add suffix **W** - White e.g. **PS 14913LW** etc.

CIRCUIT TYPE - **J** - non-dimming (HF fluorescent) / **L** - non-dimming (LED)

EMERGENCY VERSION - prefix catalogue number with:  
**ECT** - Emergency / **TCT** - AutoTest e.g. **ECT 14538L** etc.  
 Emergency and AutoTest versions add 0.7kg to weights listed



**SPECIFICATION**

- 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
- 100°C high ambient GLS version
- Type 'n' versions for Zone 2 and 22 areas (see Hazardous Area section)
- Complies with M.O.D. JSP482 Chapter 8 Document for 'Category C' areas (up to 70W)
- BSI Kitemarked and ENEC approved versions



LED retro-fit gear tray

**LED Version**

- High power white LEDs
- Aluminium gear tray with LED heat sink bar
- Fitted with 4000K LEDs

**LED CHARACTERISTICS**

Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/CW
70	4000	>60K	P	>85	R	>0.95	81.5

For LED characteristics explanation see [www.thorlux.com/led-characteristics](http://www.thorlux.com/led-characteristics)

**ACCESSORIES**

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

**RANGE**

	LAMP	APPROX. CAT. No.	kg	APPROVED
GLASS COVER	20W LED	<b>PX 14933L</b>	6.2	
	32W LED	<b>PX 14935L</b>	6.2	
	100W GLS (ES)	<b>PX 10099 ▲</b>	5.3	
	200W GLS (ES)	<b>PX 5053</b>	5.3	✓
	80W MBF	<b>PX 5051</b>	7.2	✓
	50W SON-E	<b>PX 6537</b>	7.4	✓
	70W SON-E	<b>PX 5235</b>	7.4	✓
	70W SON-E	<b>PX 5936 ■</b>	7.3	✓
	70W MBIE	<b>PX 5235 ◆</b>	7.4	
	26/32/42W TC-T	<b>PL 11921J ●</b>	5.4	
POLYCARBONATE COVER	20W LED	<b>PX 14932L</b>	4.0	
	32W LED	<b>PX 14934L</b>	4.0	
	150W GLS (ES)	<b>PX 6383</b>	3.1	✓
	50W SON-E	<b>PX 6539</b>	5.2	✓
	70W SON-E	<b>PX 6385</b>	5.2	✓
	70W SON-E	<b>PX 6386 ■</b>	5.1	✓
	70W MBI - UV Reduced	<b>PX 6385 ◆</b>	5.2	
26/32/42W TC-T	<b>PL 11931J ●</b>	3.2		
LED RETRO-FIT GEAR TRAY	20W LED	<b>PX 14936L</b>	1.6	
	32W LED	<b>PX 14937L</b>	1.6	

CIRCUIT TYPE - J - non-dimming (HF fluorescent) / L - non-dimming (LED)

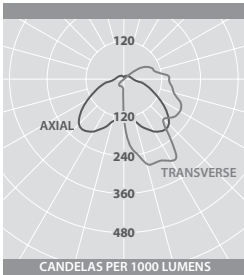
IMPORTANT: DO NOT USE LAMPS WITH AN INTERNAL STARTING DEVICE UNLESS INDICATED WITH ■

- Less ignitor, lamp with internal starter required
  - ▲ 100°C ambient version - wall mounted, lampholder down
  - ◆ Metal Halide lamps (Compatible with high pressure sodium control gear)
  - TC-T versions with high frequency tri-lamp ballast suitable for operation of 26, 32 or 42W lamps
- Lamps must be ordered separately



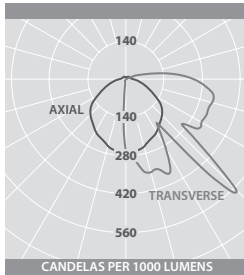
**PHOTOMETRIC GUIDE**

**PASSLIGHT - LED VERSION - POLYCARBONATE COVER**



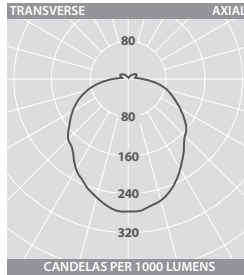
Luminaire Lumen Output  
24W = 1520lm  
38W = 2060lm

**PASSLIGHT - LED VERSION - GLASS COVER**



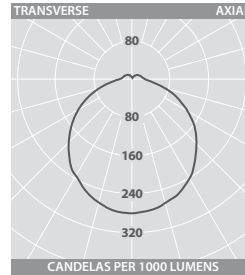
Luminaire Lumen Output  
24W = 1650lm  
38W = 2240lm

**PRISMALETTE - LED VERSION - CLEAR COVER**



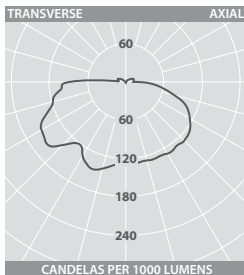
Luminaire Lumen Output  
16W = 1480lm

**PRISMALETTE - LED VERSION - SATIN COVER**



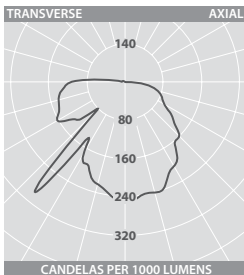
Luminaire Lumen Output  
16W = 1400lm

**PRISMALUX - LED VERSION - POLYCARBONATE COVER**



Luminaire Lumen Output  
20W = 1600lm  
32W = 2610lm

**PRISMALUX - LED VERSION - GLASS COVER**



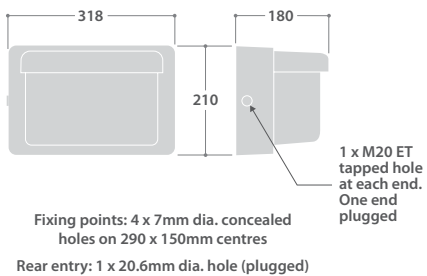
Luminaire Lumen Output  
20W = 1720lm  
32W = 2770lm



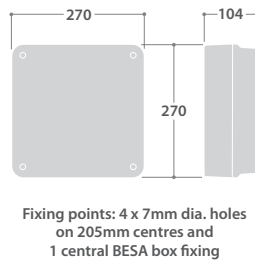


**DIMENSIONS**

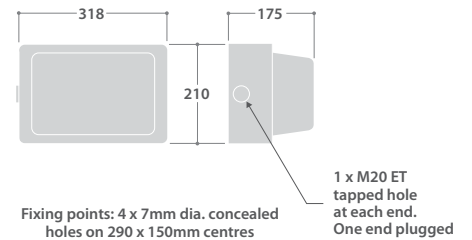
Passlight



Prismalette



Prismalux





### SPECIFICATION

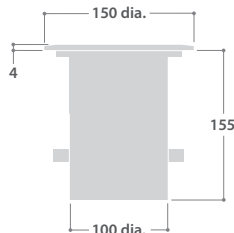
- Stainless steel body and frame
- Toughened/safety glass cover, frosted (10mm thick)
- Suitable for low usage traffic areas
- Touch temperature 40°C
- Integral LED driver
- Fitted with 6000K LEDs

### LED CHARACTERISTICS

Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/CW
65	6000	60K	U	>80	R	>0.5	28.6

For LED characteristics explanation see [www.thorlux.com/led-characteristics](http://www.thorlux.com/led-characteristics)

### DIMENSIONS

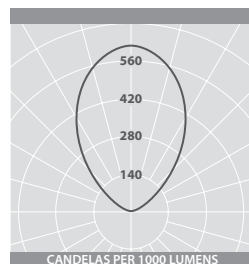


### PHOTOMETRIC GUIDE

#### 3 x 1.2W LED

D.L.O.R. 0%

U.L.O.R. 100%



Luminaire Lumen Output = 145lm

### RANGE

LED	CAT. No.	APPROX. kg
3 x 1.2W	LED 14144L	1.5

CIRCUIT TYPE - L - non-dimming (LED)



**SPECIFICATION**

- Cast aluminium frame finished silver
- Plastic recessing housing for solid surfaces
- Toughened/safety glass cover, frosted (8mm thick)
- Touch temperature 37°C
- Remote LED driver (supplied) - driver to LED max. distance 100m
- Fitted with 6000K LEDs

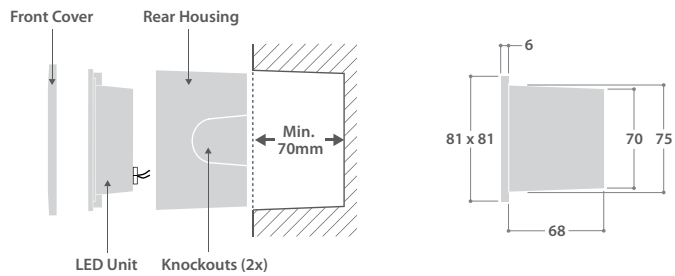


**LED CHARACTERISTICS**

Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/CW
65	6000	60K	U	>80	R	>0.5	24.9

For LED characteristics explanation see [www.thorlux.com/led-characteristics](http://www.thorlux.com/led-characteristics)

**DIMENSIONS**

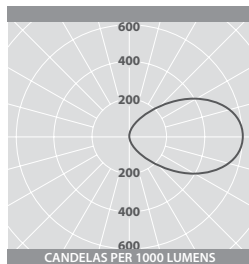


Fitted to 75 x 75mm concrete aperture or panel mounted using optional recessing kit below

**PHOTOMETRIC GUIDE**

**3 x 1.2W LED**

D.L.O.R. 50% U.L.O.R. 50%



Luminaire Lumen Output = 91lm

**RANGE**

LED	CAT. No.	APPROX. kg
3 x 1.2W	LED 14550L	0.4

CIRCUIT TYPE - L - non-dimming (LED)

**ACCESSORY**

DESCRIPTION	CAT. No.	APPROX. kg
Recessing kit suitable for plasterboard, ceiling tiles, metal sheeting etc.	IK 14549	0.2





### SPECIFICATION

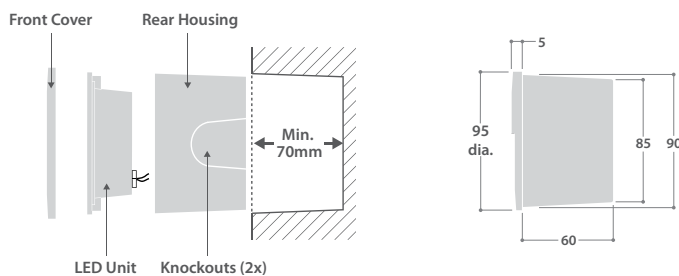
- Cast aluminium frame finished silver
- Plastic recessing housing for solid surfaces
- Toughened/safety glass cover, frosted (4mm thick)
- Touch temperature 40°C
- Remote LED driver (supplied) - driver to LED max. distance 100m
- Fitted with 6000K LEDs

### LED CHARACTERISTICS

Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/CW
65	6000	60K	U	>80	R	>0.5	25.8

For LED characteristics explanation see [www.thorlux.com/led-characteristics](http://www.thorlux.com/led-characteristics)

### DIMENSIONS



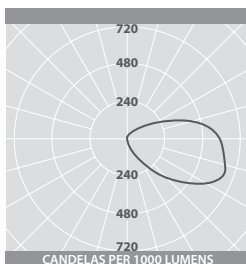
Fitted to 90mm dia. concrete aperture or panel mounted using optional recessing kit below

### PHOTOMETRIC GUIDE

#### 3 x 1.2W LED

D.L.O.R. 69%

U.L.O.R. 31%



Luminaire Lumen Output = 711lm

### RANGE

LED	CAT. No.	APPROX. kg
3 x 1.2W	LED 14551L	0.4

CIRCUIT TYPE - L - non-dimming (LED)

### ACCESSORY

DESCRIPTION	CAT. No.	APPROX. kg
Recessing kit suitable for plasterboard, ceiling tiles, metal sheeting etc.	IK 14548	0.2



**SPECIFICATION**

- Cast aluminium frame finished silver
- Plastic recessing housing for solid surfaces
- Toughened/safety glass cover, frosted (4mm thick)
- Touch temperature 37°C
- Remote LED driver (supplied) - driver to LED max. distance 100m
- Fitted with 6000K LEDs

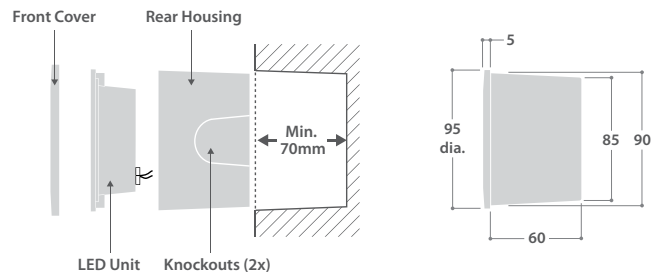


**LED CHARACTERISTICS**

Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/CW
65	6000	60K	U	>80	R	>0.5	37.5

For LED characteristics explanation see [www.thorlux.com/led-characteristics](http://www.thorlux.com/led-characteristics)

**DIMENSIONS**

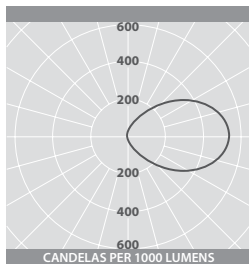


Fitted to 90mm dia. concrete aperture or panel mounted using optional recessing kit below

**PHOTOMETRIC GUIDE**

**3 x 1.2W LED**

D.L.O.R. 50% U.L.O.R. 50%



Luminaire Lumen Output = 116lm

**RANGE**

LED	CAT. No.	APPROX. kg
3 x 1.2W	LED 14552L	0.4

CIRCUIT TYPE - L - non-dimming (LED)

**ACCESSORY**

DESCRIPTION	CAT. No.	APPROX. kg
Recessing kit suitable for plasterboard, ceiling tiles, metal sheeting etc.	IK 14548	0.2



**SPECIFICATION**

- Cast aluminium body finished silver
- Touch temperature 42°C
- Remote LED driver (supplied) - driver to LED max. distance 100m
- Fitted with 6000K LEDs

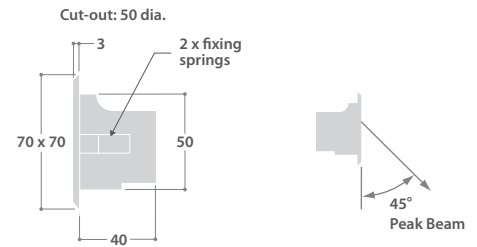
**LED CHARACTERISTICS**

Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/CW
65	6000	60K	n/a	>80	Rx	>0.5	13.8

For LED characteristics explanation see [www.thorlux.com/led-characteristics](http://www.thorlux.com/led-characteristics)



**DIMENSIONS**

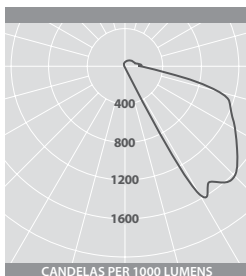


Push fit into a 50mm dia. recess. If panel mounted minimum wall thickness = 18mm

**PHOTOMETRIC GUIDE**

1 x 1.2W LED

D.L.O.R. 88% U.L.O.R. 12%



Luminaire Lumen Output = 271lm

**RANGE**

LED	CAT. No.	APPROX. kg
1 x 1.2W	LED 14553L	0.2

CIRCUIT TYPE - L - non-dimming (LED)





**SPECIFICATION**

- Cast aluminium body finished silver as standard
- White finish option
- Touch temperature 35°C
- Remote LED driver (supplied) - driver to LED max. distance 100m
- Fitted with 6000K LEDs

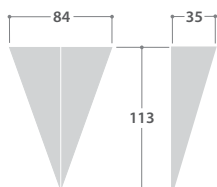


**LED CHARACTERISTICS**

Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/CW
65	6000	60K	n/a	>80	Rx	>0.5	20.3

For LED characteristics explanation see [www.thorlux.com/led-characteristics](http://www.thorlux.com/led-characteristics)

**DIMENSIONS**



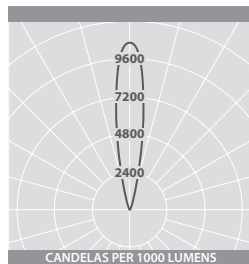
Supplied complete with hidden wall fixing bracket



**PHOTOMETRIC GUIDE**

1 x 1.2W LED

D.L.O.R. 0% U.L.O.R. 100%



Luminaire Lumen Output = 50lm

**RANGE**

LED	CAT. No.	APPROX. kg
1 x 1.2W	LED 13644L	0.2

CIRCUIT TYPE - L - non-dimming (LED)

WHITE OPTION - add suffix **W** e.g. **LED 13644W** etc.

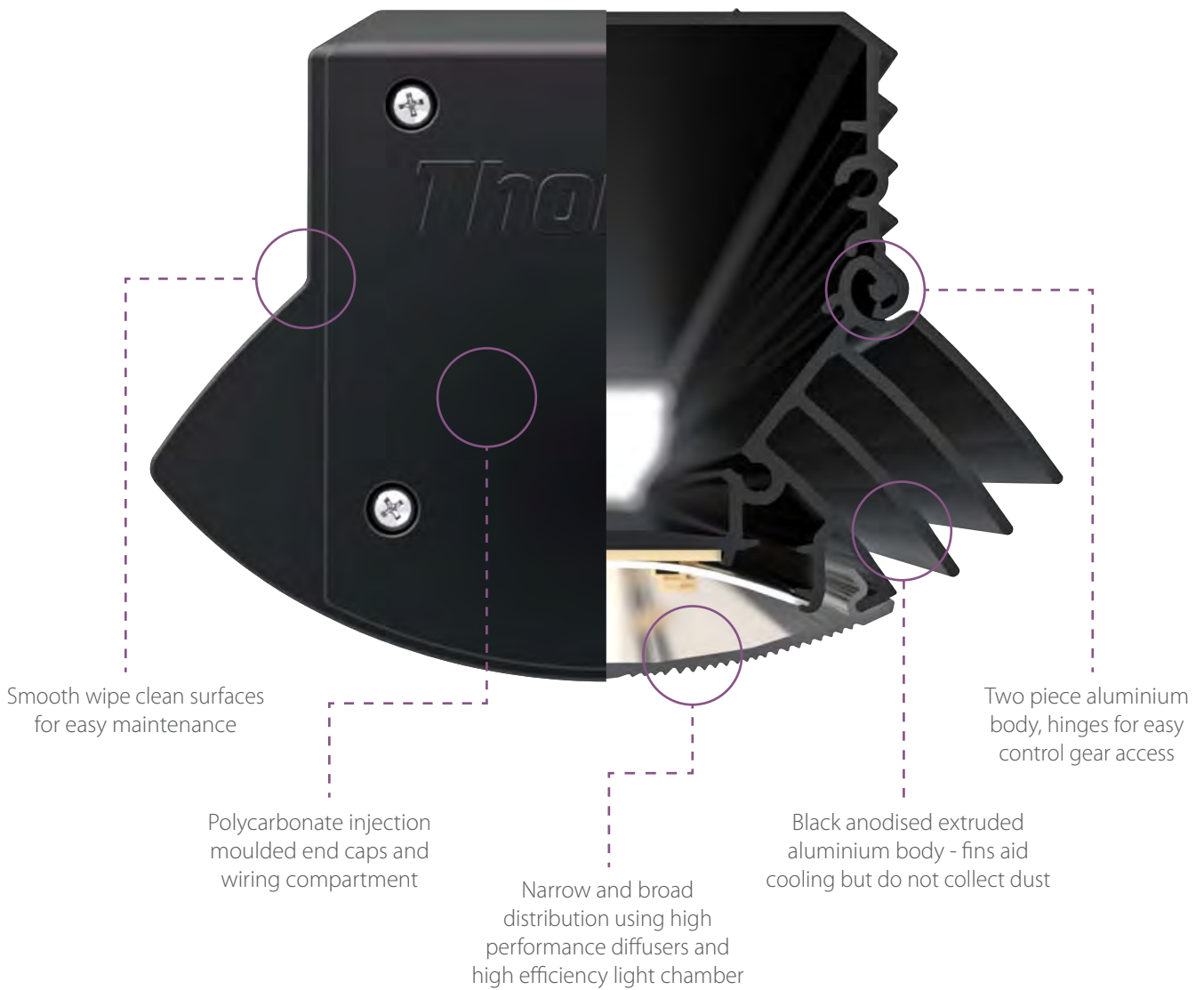
# HI BAY LOW BAY LIGHTING

# SOLOW LED

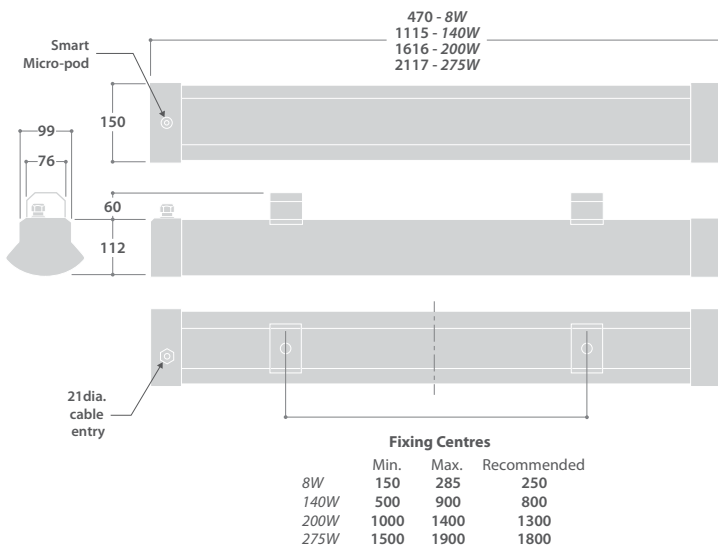






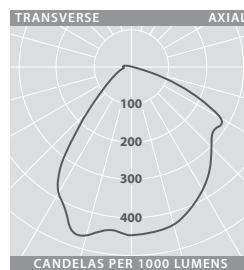


**DIMENSIONS**



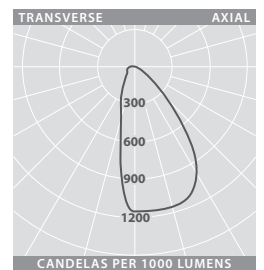
**PHOTOMETRIC GUIDE**

**BROAD DISTRIBUTION**



Luminaire Lumen Output:  
**Ra70+**  
 140W = 11540lm  
 200W = 17300lm  
 275W = 23080lm  
**Ra80+**  
 140W = 10300lm  
 200W = 15450lm  
 275W = 20600lm

**NARROW DISTRIBUTION**



Luminaire Lumen Output:  
**Ra70+**  
 140W = 12365lm  
 200W = 18550lm  
 275W = 24700lm



**SPECIFICATION**

- Black anodised extruded aluminium body - fins aid cooling
- Two piece body, hinges for easy control gear access
- High quality control gear and LEDs designed to achieve 100,000 hour life expectancy
- Polycarbonate injection moulded end caps
- Narrow and broad distribution
- Snap fit stainless steel mounting brackets for fast installation (supplied)
- Smooth wipe clean surfaces, no dust traps
- Fitted with 1m flying lead
- Smart versions, suitable for use up to 10m mounting height
- Separate non-maintained emergency versions available
- Fitted with 4000K LEDs



**RANGE**

	LENGTH (mm)	LED	NARROW DISTRIBUTION Ra70+	BROAD DISTRIBUTION ♦ Ra70+	BROAD DISTRIBUTION ♦ Ra80+	APPROX. kg	CIRCUIT
<b>IP40</b>							
<b>SMART</b>	1115	140W	SWL 15356D	SWL 15357D	SWL 15583D	6.6	
	1616	200W	SWL 15358D	SWL 15359D	SWL 15584D	9.9	
	2117	275W	SWL 15360D	SWL 15361D	SWL 15585D	12.9	
<b>STANDARD</b>	1115	140W	SWL 15350	SWL 15351	SWL 15580	6.5	L/A
	1616	200W	SWL 15352	SWL 15353	SWL 15581	9.8	L/A
	2117	275W	SWL 15354	SWL 15355	SWL 15582	12.8	L/A
<b>EMERGENCY</b>	470	8W	EWL 15374L ▲		EWL 15377L ▲	3.2	
	470	8W	TWL 15374L ■		TWL 15377L ■	3.2	
	470	8W	DWL 15374L ●		DWL 15377L ●	3.2	
<b>IP54</b>							
<b>SMART</b>	1115	140W	SWL 15368D	SWL 15369D	SWL 15589D	6.6	
	1616	200W	SWL 15370D	SWL 15371D	SWL 15590D	9.9	
	2117	275W	SWL 15372D	SWL 15373D	SWL 15591D	12.9	
<b>STANDARD</b>	1115	140W	SWL 15362	SWL 15363	SWL 15586	6.5	L/A
	1616	200W	SWL 15364	SWL 15365	SWL 15587	9.8	L/A
	2117	275W	SWL 15366	SWL 15367	SWL 15588	12.8	L/A
<b>EMERGENCY</b>	470	8W	EWL 15375L ▲		EWL 15378L ▲	3.2	
	470	8W	TWL 15375L ■		TWL 15378L ■	3.2	
	470	8W	DWL 15375L ●		DWL 15378L ●	3.2	

LED CHARACTERISTICS							
Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/CW
80+	4000	100K	P	>90	R	>0.90	85.9

For LED characteristics explanation see [www.thorlux.com/led-characteristics](http://www.thorlux.com/led-characteristics)

CIRCUIT TYPE - suffix catalogue number with:

L - non dimming (LED) / A - dimming (DALI) e.g. SWL 15350L etc.

Smart versions use digital dimming gear and are always suffixed D

EMERGENCY VERSION: ▲ EWL - Emergency / ■ TWL - AutoTest / ● DWL - Scanlight AT

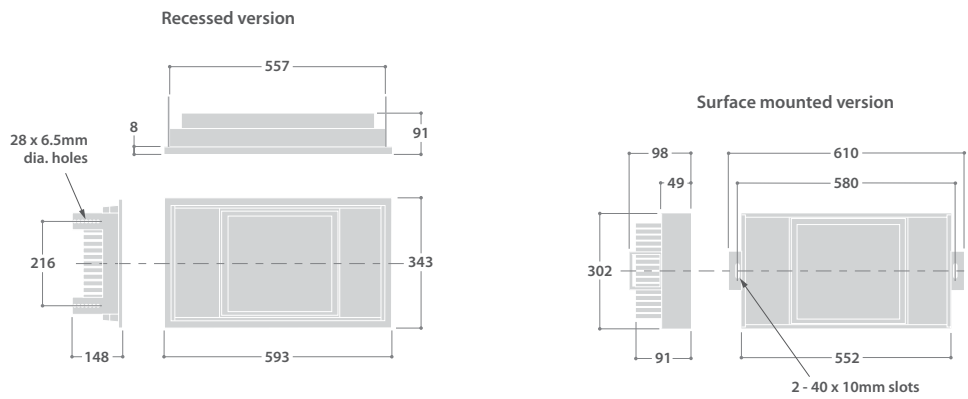
♦ In accordance with BS EN12464-1:2011, for visual performance and wellbeing, Ra80+ light sources are required in areas inhabited for long periods of time.

Web Link: Smart System





## DIMENSIONS







**SPECIFICATION**

- Zinc coated body finished full polyester, non-yellowing white
- 2.8mm thick acrylic front cover
- Recessed or surface mounting options
- Smart versions, suitable for use up to 10m mounting height
- Fitted with 4000K LEDs



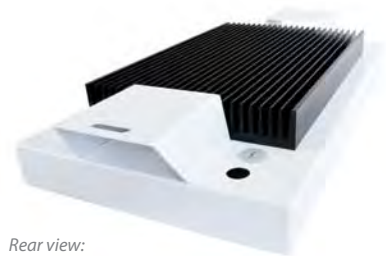
*Recessed version*

*Surface mounted version*

**LED CHARACTERISTICS**

Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/CW
80+	4000	60K	P	>90	R	>0.95	64.6

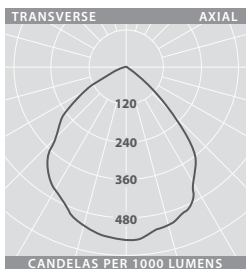
For LED characteristics explanation see [www.thorlux.com/led-characteristics](http://www.thorlux.com/led-characteristics)



*Rear view: showing heat sink*

**PHOTOMETRIC GUIDE**

**110W LED**



Luminaire Lumen Output  
110W = 8070lm

**RANGE**

	MOUNTING	LED	CAT. No.	APPROX. kg
<b>SMART</b>	Recessed	110W	<b>LY 14903D</b>	14.4
	Surface Mounted	110W	<b>LY 14905D</b>	10.1
<b>STANDARD</b>	Recessed	110W	<b>LY 14902L</b>	14.3
	Surface Mounted	110W	<b>LY 14904L</b>	10.0

**CIRCUIT TYPE - L - non-dimming (LED)**

Smart versions use digital dimming gear and are always suffixed **D**

Web Link: Smart System





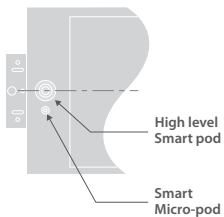


**SPECIFICATION**

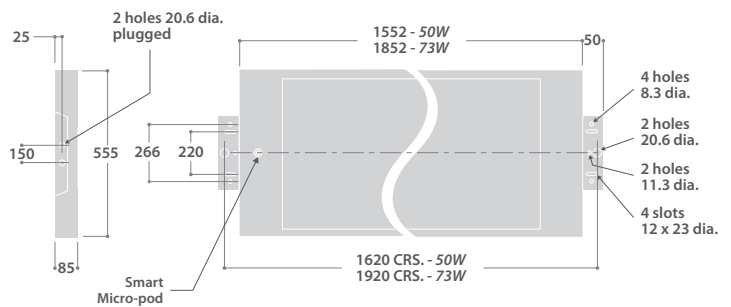
- Slim profile zinc plated steel body with full polyester powder coat silver (RAL9006)
- Multi-lamp T5 ECO high lumen package
- High performance broad and narrow distribution reflectors using the latest silver coating technology (up to 97% reflectivity)
- Polycarbonate cover secured with quick-release fasteners
- Smart versions, suitable for use up to 10m mounting height or high level versions to 16m
- Can be multi-point suspended or surface mounted
- Cool gear compartments outside lamp chamber ensure long gear life



**High Level Smart version**



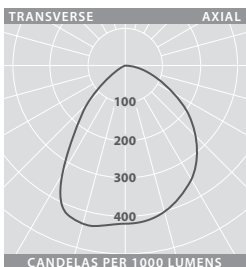
**DIMENSIONS**



**PHOTOMETRIC GUIDE**

**4 x 50W BROAD**

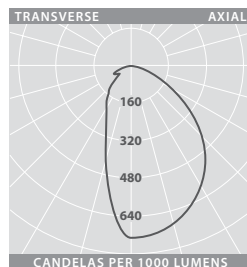
D.L.O.R. 87% U.L.O.R. 0%



Factor:  
4 x 73W = 0.93

**4 x 50W NARROW**

D.L.O.R. 90% U.L.O.R. 0%



Factor:  
4 x 73W = 0.92

**RANGE**

	NOMINAL SIZE (mm)	LAMP	BROAD DISTRIBUTION	NARROW DISTRIBUTION	APPROX. kg	CIRCUIT
SMART	1200	4 x 50W T5 ECO	SW 15293D	SW 15294D	19.4	
	1500	4 x 73W T5 ECO	SW 15299D	SW 15300D	20.9	
HIGH LEVEL SMART	1200	4 x 50W T5 ECO	SW 15295D	SW 15296D	19.5	
	1500	4 x 73W T5 ECO	SW 15301D	SW 15302D	21.0	
STANDARD	1200	4 x 50W T5 ECO	SW 15291	SW 15292	19.3	J/D/T
	1500	4 x 73W T5 ECO	SW 15297	SW 15298	20.8	J/D/T

**LAMPS**

DESCRIPTION	CAT. No.	INITIAL LUMENS	CCT(K)	CRI(Ra)
50W T5 ECO	LMP 14525	4450	4000	>80
73W T5 ECO	LMP 14526	6550	4000	>80

CIRCUIT TYPE - suffix catalogue number with:

J - non-dimming (HF fluorescent) / D - dimming (1-10V) / T - dimming (DSI) e.g. SW 15291J etc. Smart versions use digital dimming gear and are always suffixed D

EMERGENCY VERSION - prefix catalogue number with:

ESW - Emergency / TSW - AutoTest e.g. ESW 15291J etc. Emergency and AutoTest versions add 0.7kg to weights listed.

Lamps must be ordered separately

Web Link: Smart System

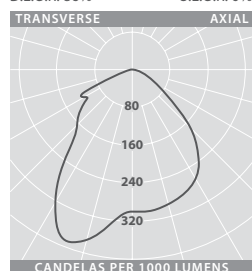




## PHOTOMETRIC GUIDE

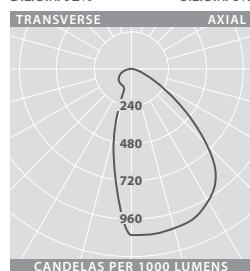
### 250W SON-T BROAD DISTRIBUTION

D.L.O.R. 86% U.L.O.R. 0%



### 250W SON-T NARROW DISTRIBUTION

D.L.O.R. 92% U.L.O.R. 0%



## ACCESSORIES

DESCRIPTION	CAT. No.	APPROX. kg
205W tungsten halogen lamp (auxiliary lamp)	<b>LMP 6713</b>	0.07
Kit of 3 spacers for trunking fix	<b>SW 11792</b>	0.22
Clear toughened/safety glass cover	<b>SW 11697</b>	1.13
Clear polycarbonate cover	<b>SW 11695</b>	0.33
Wire guard (white polyester coated)	<b>SW 11696</b>	0.77
Transverse louvre (white polyester coated)	<b>SW 11698</b>	0.34



**SPECIFICATION**

- Zinc coated steel body and back plate finished full polyester, non-yellowing white
- Lockable quick-release latch detaches body from backplate for easy access
- Broad or narrow light distribution versions
- Accessories may be used together in various combinations
- Auxiliary lamp option



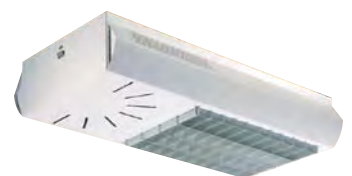
Glass cover



Clear polycarbonate cover

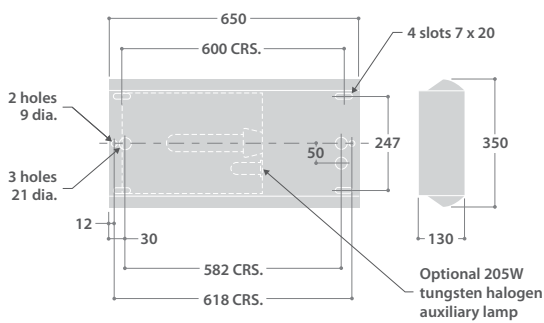


Wire guard



Transverse louvre

**DIMENSIONS**



**RANGE**

LAMP	MANUFACTURER	BROAD DISTRIBUTION VERSION	NARROW DISTRIBUTION VERSION	APPROX. kg
<b>High pressure sodium lamps</b>				
150W SON-T	Any	SW 11661	SW 11666	6.4
250W SON-T	Any	SW 11662	SW 11667	7.9
400W SON-T +	Any	SW 11663	SW 11668	8.8
<b>Metal halide lamps - compatible with high pressure sodium control gear</b>				
250W MBI-T ▲	Any	SW 11686	SW 11688	9.0
250W MBI-T ■	Any	SW 12641	SW 12645	8.2
<b>Metal halide lamps - compatible with mercury (MBF) control gear and semi-parallel ignitor</b>				
250W MBI-T ▲	P	SW 11664	SW 11669	10.1
400W MBI-T ▲	P	SW 11665	SW 11670	11.0
250W MBI-T ■	P	SW 12643	SW 12647	7.0
400W MBI-T ■	P	SW 12644	SW 12648	7.7

AUXILIARY LAMP VERSION (205W TH max. ES) - add suffix X e.g. SW 11661X etc.

IMPORTANT: DO NOT USE LAMPS WITH AN INTERNAL STARTING DEVICE.  
METAL HALIDE LAMPS MUST BE SUITABLE FOR HORIZONTAL OPERATION.

P - Philips (HPIT Plus)

▲ Supplied with toughened/safety glass cover

■ Supplied with clear polycarbonate cover

+ Not suitable for Metal Halide lamps compatible with high pressure sodium control gear

Lamps must be ordered separately

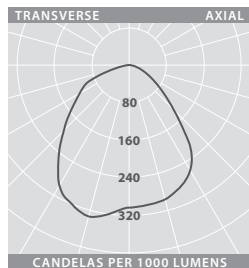




## PHOTOMETRIC GUIDE

### 400W SON-T GLASS COVER BROAD DISTRIBUTION

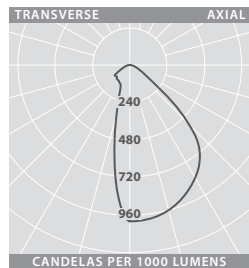
D.L.O.R. 79% U.L.O.R. 0%



Factor: For polycarbonate versions multiply values by 0.96

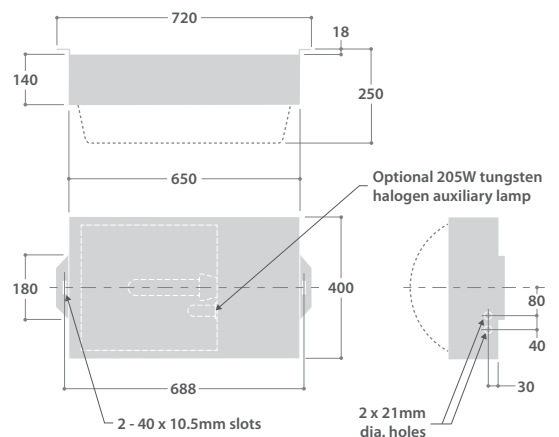
### 400W SON-T GLASS COVER NARROW DISTRIBUTION

D.L.O.R. 84% U.L.O.R. 0%



Factor: For polycarbonate versions multiply values by 0.96

## DIMENSIONS







**SPECIFICATION**

- Welded aluminium body finished full polyester, non-yellowing white
- Broad distribution reflector for general use
- Narrow distribution reflector for high level racking
- Suitable for food areas - food grade silicone gasket kit available
- Choice of hinged clear polycarbonate or flat hinged toughened/safety glass covers
- Auxiliary lamp option



**ACCESSORIES**

DESCRIPTION	CAT. No.	APPROX. kg
205W tungsten halogen lamp (auxiliary lamp)	LMP 6713	0.07
Food grade gasket kit (for sealing luminaire to ceiling)	SW 12697	

**RANGE**

	LAMP	GLASS COVER VERSION	POLYCARBONATE COVER VERSIONS	LAMP MANUFACTURER	APPROX. kg
<b>BROAD DISTRIBUTION</b>	<b>High pressure sodium lamps</b>				
	250W SON-T	SW 12682	SW 12685	Any	8.5
	400W SON-T	SW 12683	SW 12686	Any	9.5
	<b>Metal halide lamps - compatible with mercury (MBF) control gear and semi-parallel ignitor</b>				
<b>NARROW DISTRIBUTION</b>	250W MBI-T	SW 12687	SW 12898	P	8.5
	400W MBI-T	SW 12688	SW 12899	P	9.5
	<b>High pressure sodium lamps</b>				
	250W SON-T	SW 12672	SW 12675	Any	8.5
400W SON-T	SW 12673	SW 12676	Any	9.5	
<b>BROAD DISTRIBUTION</b>	<b>Metal halide lamps - compatible with mercury (MBF) control gear and semi-parallel ignitor</b>				
	250W MBI-T	SW 12677	SW 12896	P	8.5
	400W MBI-T	SW 12678	SW 12897	P	9.5

AUXILIARY LAMP VERSION (205W TH max. ES) - add suffix X e.g. SW 12682X etc.

**IMPORTANT: DO NOT USE LAMPS WITH AN INTERNAL STARTING DEVICE. METAL HALIDE LAMPS MUST BE SUITABLE FOR HORIZONTAL OPERATION.**

P - Philips (HPIT Plus)

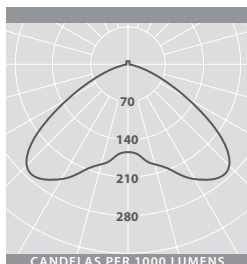
Lamps must be ordered separately



## PHOTOMETRIC GUIDE

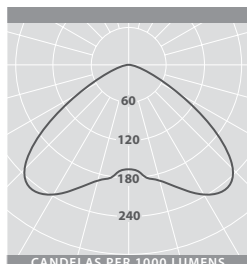
### COMBO-X 400W SON/MBIF

D.L.O.R. 80% U.L.O.R. 1%



### ENCLOSED COMBO 400W SON/MBIF

D.L.O.R. 71% U.L.O.R. 0%



## ACCESSORIES

DESCRIPTION	CAT. No.	APPROX. kg
205W tungsten halogen lamp (auxiliary lamp)	<b>LMP 6713</b>	0.07
Adjustable mounting bracket for integral ballast <b>+</b>	<b>CR 5874</b>	1.35
406mm diameter clip-on steel galvanised wire guard <b>▲</b>	<b>WG 1240</b>	0.24
457mm diameter clip-on steel galvanised wire guard <b>▲</b>	<b>WG 1242</b>	0.29

- ▲** Combo-X and Combo Overlamp only
- +** Add after luminaire number e.g. CBX 6201/CR 5874

Adjustable bracket mounting  
for integral ballasts  
(2 x 14mm diameter holes  
on 118mm centres)



IP20 COMBO-X IP54 ENCLOSED COMBO CE SON MBIF

**SPECIFICATION**

- Die-cast aluminium ballast housing finished textured black with easy access wiring chamber
- Anodised aluminium reflector
- Broad light distribution
- Resin-filled housing dissipates heat, ensuring long control gear life in higher ambient temperatures
- 25mm tapped entry and lugs for safety chain/chain suspension
- Adjustable mounting bracket option
- Auxiliary lamp option

**ENCLOSED COMBO**

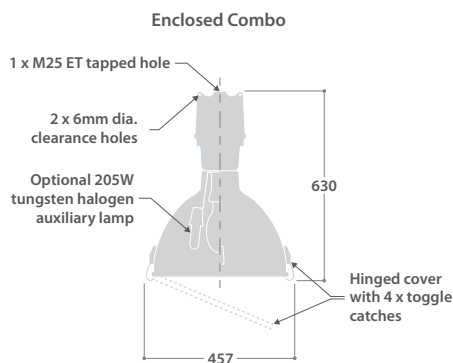
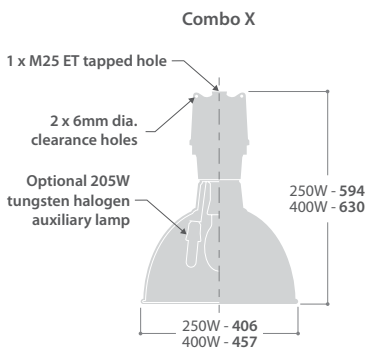
- Hinged clear flat toughened/safety glass cover



Enclosed Combo

Combo-X

**DIMENSIONS**



**RANGE**

	LAMP	MANUFACTURER	CAT. No.	APPROX. kg
COMBO-X	<b>High Pressure Sodium Lamps</b>			
	250W SON	Any	<b>CBX 6201 ▲</b>	7.6
	400W SON	Any	<b>CBX 6202</b>	8.2
	<b>Metal Halide Lamps (Open Luminaire Type) - compatible with high pressure sodium control gear</b>			
ENCLOSED COMBO	250W MBIF	Any	<b>CBX 6201 ▲</b>	7.6
	400W MBIF	Any	<b>CBX 6202</b>	8.2
	<b>High Pressure Sodium Lamps</b>			
	250W SON	Any	<b>CB 8420</b>	9.7
ENCLOSED COMBO	400W SON	Any	<b>CB 8421</b>	9.8
	<b>Metal Halide Lamps (Open Luminaire Type) - compatible with high pressure sodium control gear</b>			
	250W MBIF	Any	<b>CB 8420</b>	9.7
	400W MBIF	Any	<b>CB 8421</b>	9.8

AUXILIARY LAMP VERSION - add suffix X e.g. **CBX 6202X** etc.

**IMPORTANT: DO NOT USE LAMPS WITH AN INTERNAL STARTING DEVICE. METAL HALIDE LAMPS MUST BE SUITABLE FOR BASE-UP OPERATION.**

▲ Auxiliary lamp facility not available

Lamps must be ordered separately



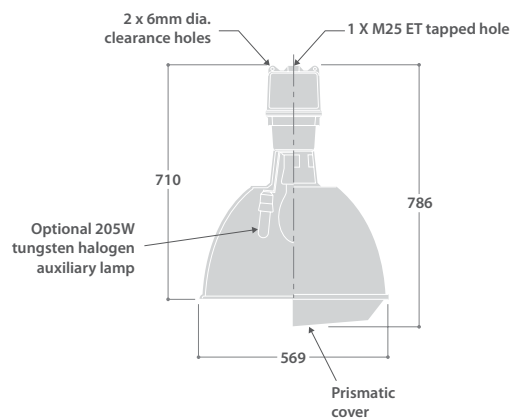
## PHOTOMETRIC GUIDE

### 400W SON/MBIF OPEN

D.L.O.R. 68% U.L.O.R. 14%



## DIMENSIONS



## ACCESSORIES

DESCRIPTION	CAT. No.	APPROX. kg
205W tungsten halogen lamp (auxiliary lamp)	<b>LMP 6713</b>	0.07
Adjustable mounting bracket for integral ballast <b>+</b>	<b>CR 5874</b>	1.35

**+** Add after luminaire number e.g. **CBP 8438/CR 5874**

Adjustable bracket mounting  
for integral ballasts  
(2 x 14mm diameter holes  
on 118mm centres)





**SPECIFICATION**

- Die-cast aluminium ballast housing finished textured black with easy access wiring chamber
- Low glare prismatic clear acrylic refractor(s)
- Open or closed versions
- Broad light distribution with high upward light component
- Resin-filled ballast housing dissipates heat, ensuring long control gear life in higher ambient temperatures
- 25mm tapped entry and lugs for safety chain/chain suspension
- Adjustable mounting bracket option
- Auxiliary lamp option



Enclosed version

Open version

**RANGE**

	LAMP	MANUFACTURER	CAT. No.	APPROX. kg
OPEN VERSIONS	<b>High Pressure Sodium Lamps</b>			
	250W SON	Any	<b>CBP 8438</b>	9.8
	400W SON	Any	<b>CBP 8439</b>	10.2
	<b>Metal Halide Lamps (Open Luminaire Type) - compatible with high pressure sodium control gear</b>			
	250W MBIF	Any	<b>CBP 8438</b>	9.8
	400W MBIF	Any	<b>CBP 8439</b>	10.2
ENCLOSED VERSIONS	<b>High Pressure Sodium Lamps</b>			
	250W SON	Any	<b>CBP 8443</b>	10.7
	400W SON	Any	<b>CBP 8444</b>	11.1
	<b>Metal Halide Lamps (Open Luminaire Type) - compatible with high pressure sodium control gear</b>			
	250W MBIF	Any	<b>CBP 8443</b>	10.7
	400W MBIF	Any	<b>CBP 8444</b>	11.1

Maximum ambient temperature (ta):

- 250/400W open - 40°C
- 250W enclosed - 35°C
- 400W enclosed - 25°C

AUXILIARY LAMP VERSION - add suffix X e.g. **CBP 8438X** etc.

**IMPORTANT: DO NOT USE LAMPS WITH AN INTERNAL STARTING DEVICE. METAL HALIDE LAMPS MUST BE SUITABLE FOR BASE-UP OPERATION.**

Lamps must be ordered separately



## ACCESSORIES

Adjustable bracket mounting  
for integral ballasts  
(2 x 14mm diameter holes  
on 118mm centres)



DESCRIPTION	CAT. No.	APPROX. kg
205W tungsten halogen lamp (auxiliary lamp)	<b>LMP 6713</b>	0.07
Adjustable mounting bracket for integral ballast +	<b>CR 5874</b>	1.35

+ Add after luminaire number e.g. CBP 8438/CR 5874



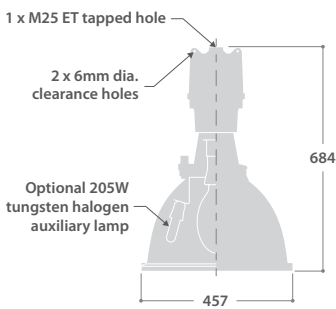


**SPECIFICATION**

- Die-cast aluminium ballast housing finished textured black with easy access wiring chamber
- Aluminium or vitreous enamelled reflectors
- Sealed, clear flat toughened/safety glass cover
- Resin-filled ballast housing dissipates heat, ensuring long control gear life in higher ambient temperatures
- Broad light distribution
- 25mm tapped entry and lugs for safety chain/chain suspension
- Adjustable mounting bracket option
- Auxiliary lamp option
- Type 'n' versions for Zones 2 and 22 (see Hazardous Area section)



**DIMENSIONS**

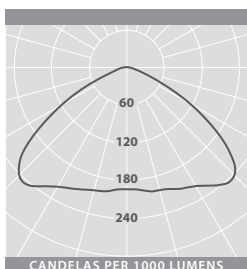


**RANGE**

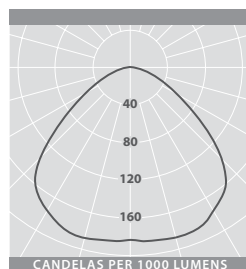
	LAMP	MANUFACTURER	CAT. No.	APPROX. kg
<b>BROAD DISTRIBUTION ALUMINIUM REFLECTORS</b>	<b>High pressure sodium lamps</b>			
	250W SON	Any	<b>THA 6166</b>	11.6
	400W SON	Any	<b>THA 6167</b>	12.0
	<b>Metal halide lamps - compatible with high pressure sodium control gear</b>			
	250W MBIF	Any	<b>THA 6166</b>	11.6
	400W MBIF	Any	<b>THA 6167</b>	12.0
<b>DISPERSIVE/VITREOUS REFLECTORS</b>	<b>High pressure sodium lamps</b>			
	250W SON	Any	<b>TH 13661</b>	12.9
	400W SON	Any	<b>TH 5744</b>	13.3
	<b>Metal halide lamps - compatible with high pressure sodium control gear</b>			
	250W MBIF	Any	<b>TH 13661</b>	12.9
	400W MBIF	Any	<b>TH 5744</b>	13.3

**PHOTOMETRIC GUIDE**

**400W SON/MBIF BROAD DISTRIBUTION REFLECTOR**  
D.L.O.R. 75% U.L.O.R. 0%



**400W SON/MBIF DISPERSIVE DISTRIBUTION REFLECTOR**  
D.L.O.R. 49% U.L.O.R. 0%



AUXILIARY LAMP VERSION - add suffix X e.g. **THA 6166X** etc.

**IMPORTANT: DO NOT USE LAMPS WITH AN INTERNAL STARTING DEVICE. METAL HALIDE LAMPS MUST BE SUITABLE FOR BASE-UP OPERATION.**

Lamps must be ordered separately

# HAZARDOUS AREA LIGHTING

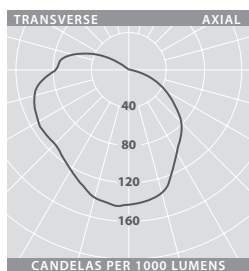


## PHOTOMETRIC GUIDE

### 1 x 36W

D.L.O.R. 55%

U.L.O.R. 13%

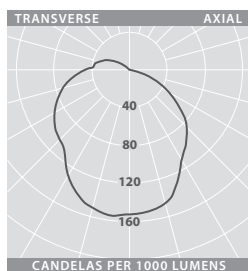


FACTOR:  
1 x 58W = 1.00

### 2 x 36W

D.L.O.R. 51%

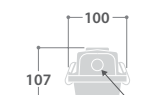
U.L.O.R. 8%



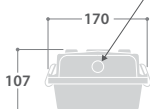
FACTOR:  
2 x 58W = 1.00

## DIMENSIONS

### Single Lamp



### Twin Lamp



1 x 20mm dia. clearance hole at each end (one plugged)

Drill 2 x 6mm dia. clearance holes (screw or hook)



Drill 2 x 10mm or 2 x 20mm dia. clearance holes (rod or conduit)

	1 & 2 x 36W	1 & 2 x 58W
A	1276	1576
B	836	1136
C	1056	1356





**SPECIFICATION**

- Corrosion-resistant light grey G.R.P. moulded body
- Suitable for use in areas classified as low impact risk
- Impact resistant prismatic polycarbonate cover secured with durable stainless steel clips
- Quick-release turnbuckles make gear tray removal simple. Hangs on safety straps for easy maintenance
- Through wiring facility option
- 220-240V, 50/60Hz, as supplied
- Complies with M.O.D. JSP482 Chapter 8 Document for 'Category C' areas

BASEEFA CERTIFICATE NUMBER:  
Baseefa02ATEX0239X



**INSTALLATION KITS** - One kit per luminaire installed

KIT	CAT. No.	DESCRIPTION
Hook Suspension	<b>IK 6388</b>	Two stainless steel hooks (including nuts and sealing washers) for chain suspension
IP65 gland kit	<b>IK 6389</b>	Weatherproof nylon gland (including nuts and sealing washers) for entry of flexible cables
Conduit entry	<b>IK 6390</b>	IP65 20mm conduit suspension sealing washer kit
Rod suspension	<b>IK 6391</b>	IP65 10mm dia. rod sealing washer kit

**RANGE**

NOMINAL SIZE (mm)	LAMP	RESTRICTED BREATHING VERSION	BREATHING T. CLASS	UNRESTRICTED BREATHING VERSION	BREATHING T. CLASS	SURFACE TEMP. (DUST)	MAXIMUM AMBIENT (ta)	LENGTH (mm)	APPROX. kg
1200	1 x 36W	<b>PFG 11803J</b>	T6	<b>PFG 11809J</b>	130°C (T4)	90°C	52°C	1276	3.2
	2 x 36W	<b>PFG 11804J</b>		<b>PFG 11810J</b>	111°C (T4)	90°C	46°C		4.6
1500	1 x 58W	<b>PFG 11805J</b>	T6	<b>PFG 11811J</b>	118°C (T4)	90°C	49°C	1576	4.2
	2 x 58W	<b>PFG 11806J</b>		<b>PFG 11812J</b>	113°C (T4)	90°C	37°C		6.9

FACTORY FITTED THROUGH WIRING WITH METAL GLAND EARTHING LUGS - add 'TW' after catalogue number eg. PFG 11803JTW

NOTE: 600mm standard and 600, 1200, 1500mm emergency versions can be supplied to special order

Lamps must be ordered separately



## SPECIFICATION

- Die-cast aluminium ballast and lamp chamber finished full polyester powder textured black
- Suitable for use in areas classified as high impact risk
- Choice of aluminium or steel, vitreous enamelled reflectors
- Ballast un-restricted breathing, lamp chamber restricted breathing
- Sealed, toughened/safety glass cover
- 240V, 50/60Hz as standard. Other voltages on request
- Complies with M.O.D. JSP482 Chapter 8 Document for 'Category C' areas (as indicated ■)

BASEEFA CERTIFICATE NUMBER:  
Baseefa 02ATEX0009X

## RANGE

LAMP	VITREOUS VERSION	ALUMINIUM VERSION	SURFACE TEMP. (DUST)	T. CLASS AT ta = 40°C	SURFACE TEMP (Dust)	T. CLASS AT ta = 50°C	DIA. (mm) A		DIA. (mm) A		APPROX. kg
							VIT.	ALU.	VIT.	ALU.	
High pressure sodium lamps											
250W SON	TH 5795 ■	THA 5795 ■	130°C	T4	140°C	140°C (T3)	406	457	617	725	12.1
400W SON	TH 5796	THA 5796	139°C	139°C (T3)	149°C	149°C (T3)	457	457	728	725	13.8
Metal halide lamps - compatible with high pressure sodium control gear											
250W MBIF	TH 5795 ■	THA 5795 ■	130°C	T4	140°C	140°C (T3)	406	457	617	725	12.1
400W MBIF	TH 5796	THA 5796	139°C	139°C (T3)	149°C	149°C (T3)	457	457	728	725	13.8

NOTE: High T. Class low wattage versions available to special order.

IMPORTANT: DO NOT USE LAMPS WITH AN INTERNAL STARTING DEVICE.

■ Suitable for Category C areas (max. ambient ta = 40°C)

Lamps must be ordered separately

## ACCESSORY

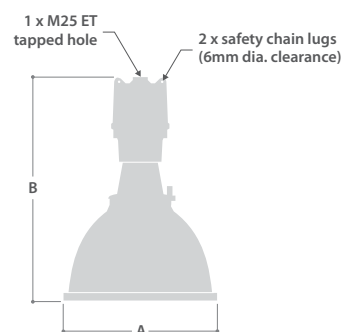
DESCRIPTION	CAT. No.	APPROX. kg
Adjustable mounting bracket for integral ballast +	CR 5874	1.35

+ Add after luminaire number e.g. TH 5795/CR 5874



Adjustable bracket mounting for integral ballasts (2 x 14mm diameter holes on 118mm centres)

## DIMENSIONS





**SPECIFICATION**

- Body and frame die-cast in highly corrosion resistant LM6M aluminium, textured full polyester powder black finish
- High and low impact area versions
- Choice of covers in impact-resistant polycarbonate or borosilicate glass
- Restricted breathing type
- 240V, 50Hz as standard. Other voltages on request
- Complies with M.O.D. JSP482 Chapter 8 Document for 'Category C' areas (as indicated ■) and 'Category B' areas (as indicated +)

BASEEFA CERTIFICATE NUMBER:  
BAS01ATEX3410X



**RANGE**

LAMP	GLASS VERSION	APPROX. kg	POLY VERSION	APPROX. kg	T. CLASS	MAXIMUM AMBIENT (ta)	SURFACE TEMP. (Dust)
100W (ES) GLS (max.)			<b>PX 6486 ■</b>	3.1	T4	30°C	130°C
200W (ES) GLS (max.)	<b>PX 5052 ■</b>	5.3			T4	40°C	130°C
70W SON	<b>PX 5891</b>	7.4	<b>PX 5890</b>	5.2	T6	40°C	80°C
80W MBF	<b>PX 5050 +</b>	7.3			T5	35°C ▲ 25°C ◆	95°C 95°C
36W TC-F	<b>PX 11856E</b>	5.4			T6	33°C	80°C

NOTE: All luminaires require a guard if used in high impact risk areas.  
IMPORTANT: DO NOT USE LAMPS WITH AN INTERNAL STARTING DEVICE

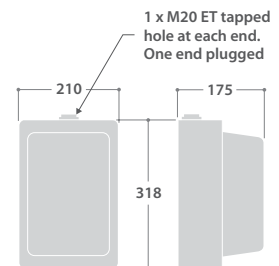
- Suitable for Category C areas
- + Suitable for Category B areas
- ▲ Vertical mounting
- ◆ Ceiling mounting

Lamps must be ordered separately

**ACCESSORIES**

DESCRIPTION	CAT. No.	APPROX. kg
Steel wire guard (nylon coated)	<b>WG 5071</b>	0.31
Tamper-resistant screw kit	<b>SCR 6758</b>	0.04
Key for tamper-resistant screw kit	<b>KY 6759</b>	0.02

**DIMENSIONS**



Fixing points: 4 x 7mm dia. concealed holes on 290 x 150mm centres

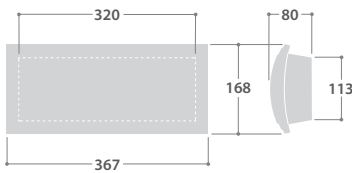


# EMERGENCY LIGHTING

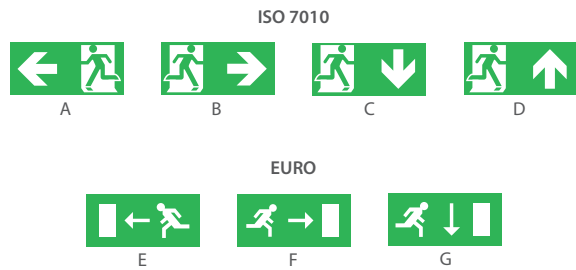


- Clear cover and off-white body in polycarbonate
- Three hour, maintained or non-maintained emergency operation
- Uses three 1W long life LEDs
- Emergency, AutoTest and Scanlight AT versions
- Stylish and robust
- Choice of legends

**DIMENSIONS**



**LEGEND OPTIONS**



**RANGE**

ISO 7010 LEGEND	CAT. No	EURO LEGEND	CAT. No	APPROX. kg	TYPE
<b>Emergency</b>					
A	ESE 15250	E	ESE 13621	1.3	Maintained ▲
B	ESE 15251	F	ESE 13622	1.3	Maintained ▲
C	ESE 15252	G	ESE 13623	1.3	Maintained ▲
D	ESE 15253			1.3	Maintained ▲
<b>AutoTest/Scanlight AT</b>					
A	TSE 15250+	E	TSE 13621+	1.3	Maintained ▲
B	TSE 15251+	F	TSE 13622+	1.3	Maintained ▲
C	TSE 15252+	G	TSE 13623+	1.3	Maintained ▲
D	TSE 15253+			1.3	Maintained ▲

- ✦ Can be connected to Scanlight AT using DALI connections
- ▲ Wire link may be removed to enable non-maintained operation



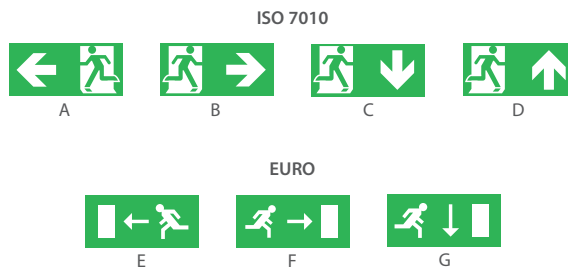
- Steel body finished white
- Emergency and AutoTest versions
- Three hour, maintained or non-maintained emergency operation
- Opal legend panel
- Choice of legends
- Fitted with 3500K lamp or 4000K LEDs



**DIMENSIONS**



**LEGEND OPTIONS**



**RANGE**

LAMP	ISO 7010 LEGEND	CAT. No	EURO LEGEND	CAT. No	APPROX. kg	TYPE
1 x 8W T5	A	EEX 15254E	E	EEX 9121E	3.2	Maintained
1 x 8W T5		EEX 15460		EEX 9122	2.9	Non-maintained
4W LED		EEX 15593		EEX 15601	3.0	Maintained
4W LED		EEX 15594		EEX 15602	2.9	Non-maintained
1 x 8W T5	B	EEX 15255E	F	EEX 9123E	3.2	Maintained
1 x 8W T5		EEX 15461		EEX 9124	2.9	Non-maintained
4W LED		EEX 15595		EEX 15603	3.0	Maintained
4W LED		EEX 15596		EEX 15604	2.9	Non-maintained
1 x 8W T5	C	EEX 15256E	G	EEX 9125E	3.2	Maintained
1 x 8W T5		EEX 15462		EEX 9126	2.9	Non-maintained
4W LED		EEX 15597		EEX 15605	3.0	Maintained
4W LED		EEX 15598		EEX 15606	2.9	Non-maintained
1 x 8W T5	D	EEX 15257E			3.2	Maintained
1 x 8W T5		EEX 15463			2.9	Non-maintained
4W LED		EEX 15599			3.0	Maintained
4W LED		EEX 15600			2.9	Non-maintained

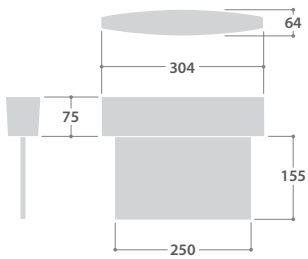
EMERGENCY VERSION - prefix catalogue number with:  
**TEX** - AutoTest e.g. **TEX 15254E** etc.



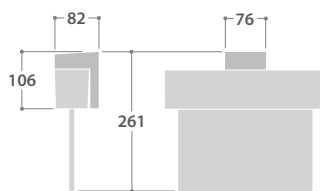


**DIMENSIONS**

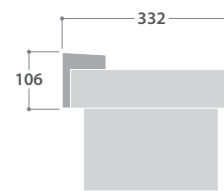
Ceiling Mounting



Wall Mounting



Cantilever Mounting





- Polycarbonate body finished matt silver
- Acrylic legend panel
- AutoTest and Scanlight AT versions
- Uses 8 low power consumption long life LEDs (4W total)
- Very easy battery compartment access
- Ceiling mounted or optional kit for wall and cantilever mounting
- Three hour, maintained or non-maintained operation
- Choice of legends



Ceiling mounting

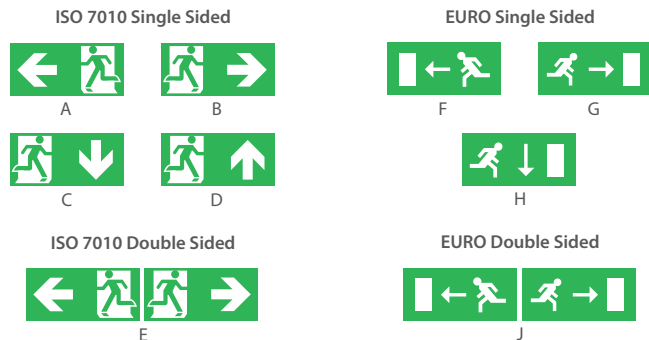


Wall mounting



Cantilever mounting

LEGEND OPTIONS



RANGE

ISO 7010 LEGEND	CAT. No	EURO LEGEND	CAT. No	APPROX. kg	TYPE
<b>AutoTest</b>					
A	TSV 15245	F	TSV 13626	1.0	Maintained ▲
B	TSV 15246	G	TSV 13627	1.0	Maintained ▲
C	TSV 15247	H	TSV 13628	1.0	Maintained ▲
D	TSV 15248	J	TSV 13629	1.0	Maintained ▲
E	TSV 15249			1.0	Maintained ▲
<b>Scanlight AT</b>					
A	DSV 15245	F	DSV 13626	1.0	Maintained ▲
B	DSV 15246	G	DSV 13627	1.0	Maintained ▲
C	DSV 15247	H	DSV 13628	1.0	Maintained ▲
D	DSV 15248	J	DSV 13629	1.0	Maintained ▲
E	DSV 15249			1.0	Maintained ▲

▲ Wire link may be removed to enable non-maintained operation

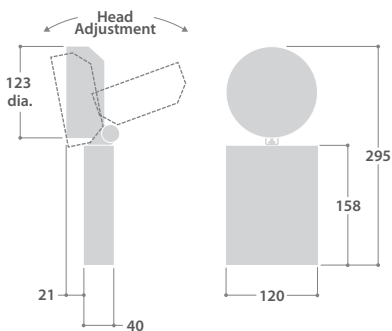
OPTIONAL MOUNTING KIT

DESCRIPTION	APPROX. kg	CAT. No.
Wall or cantilever mounting kit	0.2	SV 13630



- Steel body finished silver
- Emergency, AutoTest and Scanlight AT versions
- Uses single 2W high power LED
- 3 hour, non-maintained operation
- Adjustable lamp head
- Complete with brackets for wall or ceiling fixing

## DIMENSIONS



## RANGE

LED	CAT. No.	DURATION	APPROX. kg	TYPE
Emergency 2W	<b>ENI 15475</b>	3-Hour	1.5	Non-maintained
AutoTest / Scanlight AT 2W	<b>TNI 15475 ▲</b>	3-Hour	1.5	Non-maintained

▲ Can be connected to Scanlight AT using DALI connections



IP20 or IP65 CE TH

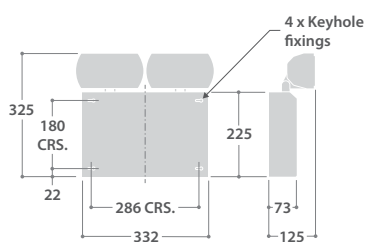
- IP20 version with white heavy gauge steel gear housing
- IP65 version with light grey polycarbonate gear housing
- Emergency, AutoTest and Scanlight AT versions
- Non-maintained twin 20W or 55W tungsten halogen versions
- One or three hour duration
- Adjustable heads
- Maintenance-free sealed batteries
- Fitted with lamps



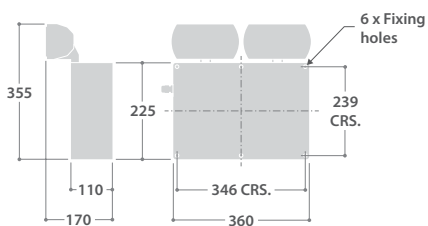
IP65 Version

IP20 Version

**DIMENSIONS**



IP20 Version



IP65 Version

**RANGE**

LAMP	CAT. No.	DURATION	APPROX. kg	TYPE
<b>IP20 Versions</b>				
2 x 20W	<b>ETS 9611</b>	3-Hour	8.4	Non-maintained
2 x 55W	<b>ETS 9612</b>	1-Hour	8.4	Non-maintained
<b>IP65 Versions</b>				
2 x 20W	<b>ETS 9614</b>	3-Hour	8.2	Non-maintained
2 x 55W	<b>ETS 9615</b>	1-Hour	8.2	Non-maintained

EMERGENCY VERSION - prefix catalogue number with:  
**TTS** - AutoTest / **DTS** - Scanlight AT e.g. **DTS 9611** etc.

# LAMPS & TRANSFORMERS

## TRI-PHOSPHOR FLUORESCENT LAMPS

	DESCRIPTION	CAT. No.	MANUFACTURER	INITIAL LUMENS	CCT(K)	CRI (Ra)	lm/W	BURNING POSITION	LUMINAIRE TYPE	BASE	
T8 RANGE	18W T8 830	<b>LMP 8257</b>	ANY	1350	3000	>80	75.0	Universal	Open	Bi-pin	
	18W T8 835	<b>LMP 9523</b>	ANY	1350	3500	>80	75.0	Universal	Open	Bi-pin	
	18W T8 840	<b>LMP 9182</b>	ANY	1350	4000	>80	75.0	Universal	Open	Bi-pin	
	18W T8 865	<b>LMP 10464</b>	ANY	1300	6500	>80	72.2	Universal	Open	Bi-pin	
	18W T8 950	<b>LMP 10097</b>	ANY	1150	5300	>90	63.9	Universal	Open	Bi-pin	
	18W T8 965	<b>LMP 10509</b>	ANY	1150	6500	>90	63.9	Universal	Open	Bi-pin	
	18W T8 830 XTREME	<b>LMP 12554</b>	PHILIPS	1350	3000	>80	75.0	Universal	Open	Bi-pin	
	18W T8 840 XTREME	<b>LMP 12555</b>	PHILIPS	1350	4000	>80	75.0	Universal	Open	Bi-pin	
	36W T8 830	<b>LMP 8928</b>	ANY	3350	3000	>80	93.1	Universal	Open	Bi-pin	
	36W T8 835	<b>LMP 8359</b>	ANY	3350	3500	>80	93.1	Universal	Open	Bi-pin	
	36W T8 840	<b>LMP 8954</b>	ANY	3350	4000	>80	93.1	Universal	Open	Bi-pin	
	36W T8 865	<b>LMP 11089</b>	ANY	3250	6500	>80	90.3	Universal	Open	Bi-pin	
	36W T8 950	<b>LMP 10098</b>	ANY	2800	5300	>90	77.8	Universal	Open	Bi-pin	
	36W T8 830 XTREME	<b>LMP 12556</b>	PHILIPS	3250	3000	>80	90.3	Universal	Open	Bi-pin	
	36W T8 840 XTREME	<b>LMP 12557</b>	PHILIPS	3250	4000	>80	90.3	Universal	Open	Bi-pin	
	58W T8 830	<b>LMP 8862</b>	ANY	5200	3000	>80	89.7	Universal	Open	Bi-pin	
	58W T8 835	<b>LMP 9277</b>	ANY	5200	3500	>80	89.7	Universal	Open	Bi-pin	
	58W T8 840	<b>LMP 8955</b>	ANY	5200	4000	>80	89.7	Universal	Open	Bi-pin	
	58W T8 865	<b>LMP 11090</b>	ANY	5000	6500	>80	86.2	Universal	Open	Bi-pin	
	58W T8 950	<b>LMP 9909</b>	ANY	4550	5000	>90	78.4	Universal	Open	Bi-pin	
	58W T8 830 XTREME	<b>LMP 12558</b>	PHILIPS	5150	3000	>80	88.8	Universal	Open	Bi-pin	
	58W T8 840 XTREME	<b>LMP 12559</b>	PHILIPS	5150	4000	>80	88.8	Universal	Open	Bi-pin	
	70W T8 830	<b>LMP 10465</b>	ANY	6300	2950	>80	90.0	Universal	Open	Bi-pin	
	70W T8 835	<b>LMP 8989</b>	ANY	6300	3400	>80	90.0	Universal	Open	Bi-pin	
	70W T8 840	<b>LMP 10466</b>	ANY	6300	4000	>80	90.0	Universal	Open	Bi-pin	
	T5 RANGE	8W T5 835	<b>LMP 6518</b>	ANY	470	3500	>80	58.8	Universal	Open	Bi-pin
		8W T5 840	<b>LMP 11837</b>	ANY	410	4000	>80	51.3	Universal	Open	Bi-pin
13W T5 ECO 830		<b>LMP 15012</b>	PHILIPS	1150	3000	>80	88.5	Universal	Open	Bi-pin	
13W T5 ECO 835		<b>LMP 15006</b>	PHILIPS	1150	3500	>80	88.5	Universal	Open	Bi-pin	
13W T5 ECO 840		<b>LMP 14521</b>	PHILIPS	1150	4000	>80	88.5	Universal	Open	Bi-pin	
13W T5 ECO 865		<b>LMP 14639</b>	PHILIPS	1050	6500	>80	80.8	Universal	Open	Bi-pin	
20W T5 ECO 830		<b>LMP 15013</b>	PHILIPS	1650	3000	>80	82.5	Universal	Open	Bi-pin	
20W T5 ECO 835		<b>LMP 14479</b>	PHILIPS	1650	3500	>80	82.5	Universal	Open	Bi-pin	
20W T5 ECO 840		<b>LMP 14491</b>	PHILIPS	1650	4000	>80	82.5	Universal	Open	Bi-pin	
20W T5 ECO 865		<b>LMP 14640</b>	PHILIPS	1600	6500	>80	80.0	Universal	Open	Bi-pin	
25W T5 ECO 830		<b>LMP 15014</b>	PHILIPS	2450	3000	>80	98.0	Universal	Open	Bi-pin	
25W T5 ECO 835		<b>LMP 15007</b>	PHILIPS	2450	3500	>80	98.0	Universal	Open	Bi-pin	
25W T5 ECO 840		<b>LMP 14522</b>	PHILIPS	2450	4000	>80	98.0	Universal	Open	Bi-pin	
25W T5 ECO 865		<b>LMP 15001</b>	PHILIPS	2250	6500	>80	90.0	Universal	Open	Bi-pin	
32W T5 ECO 830		<b>LMP 15015</b>	PHILIPS	3100	3000	>80	96.9	Universal	Open	Bi-pin	
32W T5 ECO 835		<b>LMP 15008</b>	PHILIPS	3100	3500	>80	96.9	Universal	Open	Bi-pin	
32W T5 ECO 840		<b>LMP 14523</b>	PHILIPS	3100	4000	>80	96.9	Universal	Open	Bi-pin	
32W T5 ECO 865		<b>LMP 15002</b>	PHILIPS	2850	6500	>80	89.1	Universal	Open	Bi-pin	
45W T5 ECO 830		<b>LMP 15016</b>	PHILIPS	4100	3000	>80	91.1	Universal	Open	Bi-pin	
45W T5 ECO 835		<b>LMP 15009</b>	PHILIPS	4100	3500	>80	91.1	Universal	Open	Bi-pin	
45W T5 ECO 840		<b>LMP 14524</b>	PHILIPS	4100	4000	>80	91.1	Universal	Open	Bi-pin	
45W T5 ECO 865		<b>LMP 15003</b>	PHILIPS	3900	6500	>80	86.7	Universal	Open	Bi-pin	
50W T5 ECO 830		<b>LMP 15017</b>	PHILIPS	4400	3000	>80	88.0	Universal	Open	Bi-pin	
50W T5 ECO 835		<b>LMP 15010</b>	PHILIPS	4400	3500	>80	88.0	Universal	Open	Bi-pin	
50W T5 ECO 840		<b>LMP 14525</b>	PHILIPS	4400	4000	>80	88.0	Universal	Open	Bi-pin	
50W T5 ECO 865		<b>LMP 15004</b>	PHILIPS	4150	6500	>80	83.0	Universal	Open	Bi-pin	
73W T5 ECO 830		<b>LMP 15018</b>	PHILIPS	6550	3000	>80	89.7	Universal	Open	Bi-pin	
73W T5 ECO 835	<b>LMP 15011</b>	PHILIPS	6550	3500	>80	89.7	Universal	Open	Bi-pin		
73W T5 ECO 840	<b>LMP 14526</b>	PHILIPS	6550	4000	>80	89.7	Universal	Open	Bi-pin		

	DESCRIPTION	CAT. No.	MANUFACTURER	INITIAL LUMENS	CCT(K)	CRI (Ra)	lm/W	BURNING POSITION	LUMINAIRE TYPE	BASE
TL5 RANGE	14W TL5 830	<b>LMP 10130</b>	ANY	1200	3000	>80	85.7	Universal	Open	Bi-pin
	14W TL5 835	<b>LMP 10139</b>	ANY	1200	3500	>80	85.7	Universal	Open	Bi-pin
	14W TL5 840	<b>LMP 10131</b>	ANY	1200	4000	>80	85.7	Universal	Open	Bi-pin
	14W TL5 865	<b>LMP 10462</b>	ANY	1100	6500	>80	78.6	Universal	Open	Bi-pin
	28W TL5 830	<b>LMP 10173</b>	ANY	2600	3000	>80	92.9	Universal	Open	Bi-pin
	28W TL5 835	<b>LMP 10678</b>	ANY	2600	3500	>80	92.9	Universal	Open	Bi-pin
	28W TL5 840	<b>LMP 10679</b>	ANY	2600	4000	>80	92.9	Universal	Open	Bi-pin
	28W TL5 865	<b>LMP 10463</b>	ANY	2400	6500	>80	85.7	Universal	Open	Bi-pin
	35W TL5 830	<b>LMP 10680</b>	ANY	3300	3000	>80	94.3	Universal	Open	Bi-pin
	35W TL5 835	<b>LMP 10351</b>	ANY	3300	3500	>80	94.3	Universal	Open	Bi-pin
	35W TL5 840	<b>LMP 10352</b>	ANY	3300	4000	>80	94.3	Universal	Open	Bi-pin
	35W TL5 865	<b>LMP 12614</b>	ANY	3100	6500	>80	88.6	Universal	Open	Bi-pin
	24W TL5 830	<b>LMP 11092</b>	ANY	1750	3000	>80	72.9	Universal	Open	Bi-pin
	24W TL5 835	<b>LMP 11478</b>	ANY	1750	3500	>80	72.9	Universal	Open	Bi-pin
	24W TL5 840	<b>LMP 10354</b>	ANY	1750	4000	>80	72.9	Universal	Open	Bi-pin
	24W TL5 865	<b>LMP 11479</b>	ANY	1650	6500	>80	68.8	Universal	Open	Bi-pin
	24W TL5 940	<b>LMP 12269</b>	ANY	1400	4000	>90	58.3	Universal	Open	Bi-pin
	24W TL5 965	<b>LMP 12270</b>	ANY	1400	6500	>90	58.3	Universal	Open	Bi-pin
	49W TL5 830	<b>LMP 10781</b>	ANY	4300	3000	>80	87.8	Universal	Open	Bi-pin
	49W TL5 835	<b>LMP 11482</b>	ANY	4300	3500	>80	87.8	Universal	Open	Bi-pin
	49W TL5 840	<b>LMP 10782</b>	ANY	4300	4000	>80	87.8	Universal	Open	Bi-pin
	49W TL5 865	<b>LMP 11483</b>	ANY	4100	6500	>80	83.7	Universal	Open	Bi-pin
	49W TL5 940	<b>LMP 12273</b>	ANY	3700	4000	>90	75.5	Universal	Open	Bi-pin
	49W TL5 965	<b>LMP 12274</b>	ANY	3700	6500	>90	75.5	Universal	Open	Bi-pin
	49W TL5 840 XTRA	<b>LMP 13647</b>	PHILIPS	4300	4000	>80	87.8	Universal	Open	Bi-pin
	54W TL5 830	<b>LMP 10362</b>	ANY	4450	3000	>80	82.4	Universal	Open	Bi-pin
	54W TL5 835	<b>LMP 11480</b>	ANY	4450	3500	>80	82.4	Universal	Open	Bi-pin
	54W TL5 840	<b>LMP 10086</b>	ANY	4450	4000	>80	82.4	Universal	Open	Bi-pin
54W TL5 865	<b>LMP 11481</b>	ANY	4250	6500	>80	78.7	Universal	Open	Bi-pin	
54W TL5 940	<b>LMP 12271</b>	ANY	3800	4000	>90	70.4	Universal	Open	Bi-pin	
54W TL5 965	<b>LMP 12272</b>	ANY	3800	6500	>90	70.4	Universal	Open	Bi-pin	
54W TL5 840 XTRA	<b>LMP 13645</b>	PHILIPS	4450	4000	>80	82.4	Universal	Open	Bi-pin	
80W TL5 830	<b>LMP 10898</b>	ANY	6450	3000	>80	80.6	Universal	Open	Bi-pin	
80W TL5 840	<b>LMP 10899</b>	ANY	6450	4000	>80	80.6	Universal	Open	Bi-pin	
80W TL5 865	<b>LMP 11485</b>	ANY	5950	6500	>80	74.4	Universal	Open	Bi-pin	
80W TL5 840 XTRA	<b>LMP 13646</b>	PHILIPS	6150	4000	>80	76.9	Universal	Open	Bi-pin	



## COMPACT FLUORESCENT LAMPS

DESCRIPTION	CAT. No.	MANUFACTURER	INITIAL LUMENS	CCT(K)	CRI (Ra)	lm/W	BURNING POSITION	LUMINAIRE TYPE	BASE
10W 2D 4pin 835	<b>LMP 11211</b>	GE	650	3500	>80	65.0	Universal	Open	4-pin
16W 2D 4pin 835	<b>LMP 7333</b>	GE	1100	3500	>80	68.8	Universal	Open	4-pin
21W 2D 4pin 835	<b>LMP 7950</b>	GE	1375	3500	>80	65.5	Universal	Open	4-pin
28W 2D 4pin 835	<b>LMP 7238</b>	GE	2250	3500	>80	80.4	Universal	Open	4-pin
28W 2D 4pin 840	<b>LMP 10741</b>	GE	2250	4000	>80	80.4	Universal	Open	4-pin
38W 2D 4pin 835	<b>LMP 7637</b>	GE	3000	3500	>80	78.9	Universal	Open	4-pin
38W 2D 4pin 840	<b>LMP 13368</b>	PHILIPS	2800	4000	>80	73.7	Universal	Open	4-pin
55W 2D 4pin 835	<b>LMP 11098</b>	GE	3200	3500	>80	58.2	Universal	Open	4-pin
13W TC-D 4pin 840	<b>LMP 10738</b>	PHILIPS	900	4000	>80	69.2	Universal	Open	4-pin
18W TC-D 4pin 840	<b>LMP 8919</b>	PHILIPS	1200	4000	>80	66.7	Universal	Open	4-pin
26W TC-D 4pin 840	<b>LMP 10511</b>	PHILIPS	1800	4000	>80	69.2	Universal	Open	4-pin
13W TC-T 4pin 840 NON AM	<b>LMP 12211</b>	PHILIPS	900	4000	>80	69.2	Universal	Open	4-pin
18W TC-T 4pin 840 NON AM	<b>LMP 12212</b>	PHILIPS	1200	4000	>80	66.7	Universal	Open	4-pin
26W TC-T 4pin 830	<b>LMP 11554</b>	GE	1800	3000	>80	69.2	Universal	Open	4-pin
26W TC-T 4pin 840	<b>LMP 11052</b>	GE	1800	4000	>80	69.2	Universal	Open	4-pin
26W TC-T 4pin 840 NON AM	<b>LMP 12455</b>	PHILIPS	1800	4000	>80	69.2	Universal	Open	4-pin
32W TC-T 4pin 830	<b>LMP 11556</b>	GE	2400	3000	>80	75.0	Universal	Open	4-pin
32W TC-T 4pin 835	<b>LMP 11557</b>	GE	2400	3500	>80	75.0	Universal	Open	4-pin
32W TC-T 4pin 840	<b>LMP 10570</b>	GE	2400	4000	>80	75.0	Universal	Open	4-pin
32W TC-T 4pin 840 NON AM	<b>LMP 12499</b>	OSRAM	2400	4000	>80	75.0	Universal	Open	4-pin
42W TC-T 4pin 830	<b>LMP 11558</b>	GE	3200	3000	>80	76.2	Universal	Open	4-pin
42W TC-T 4pin 835	<b>LMP 11559</b>	GE	3200	3500	>80	76.2	Universal	Open	4-pin
42W TC-T 4pin 840	<b>LMP 9967</b>	GE	3200	4000	>80	76.2	Universal	Open	4-pin
42W TC-T 4pin 840 NON AM	<b>LMP 12500</b>	OSRAM	3200	4000	>80	76.2	Universal	Open	4-pin
57W TC-T 4pin 830	<b>LMP 11967</b>	PHILIPS	4300	3000	>80	75.4	Universal	Open	4-pin
57W TC-T 4pin 840	<b>LMP 11968</b>	PHILIPS	4300	4000	>80	75.4	Universal	Open	4-pin
5W TC-S 4pin 827	<b>LMP 11814</b>	GE	265	2700	>80	53.0	Universal	Open	4-pin
10W PL-C 840	<b>LMP 11053</b>	PHILIPS	600	4000	>80	60.0	Universal	Open	4-pin
11W TC-S 4pin 840	<b>LMP 9995</b>	OSRAM	970	4000	>80	88.2	Universal	Open	4-pin
18W TC-L 835	<b>LMP 7539</b>	PHILIPS	1200	3500	>80	66.7	Universal	Open	4-pin
18W TC-L 840	<b>LMP 9702</b>	SYLVANIA	1200	4000	>80	66.7	Universal	Open	4-pin
24W TC-L 835	<b>LMP 6950</b>	PHILIPS	1800	3500	>80	75.0	Universal	Open	4-pin
34W TC-L 830	<b>LMP 9752</b>	GE	2800	3000	>80	82.4	Universal	Open	4-pin
34W TC-L 840	<b>LMP 9754</b>	GE	2800	4000	>80	82.4	Universal	Open	4-pin
36W TC-L 830	<b>LMP 9755</b>	PHILIPS	2900	3000	>80	80.6	Universal	Open	4-pin
36W TC-L 840	<b>LMP 9193</b>	PHILIPS	2900	4000	>80	80.6	Universal	Open	4-pin
36W TC-L 860	<b>LMP 10460</b>	SYLVANIA	2900	6000	>80	80.6	Universal	Open	4-pin
40W TC-L 830	<b>LMP 9756</b>	PHILIPS	3500	3000	>80	87.5	Universal	Open	4-pin
40W TC-L 835	<b>LMP 9757</b>	PHILIPS	3500	3500	>80	87.5	Universal	Open	4-pin
40W TC-L 840	<b>LMP 11819</b>	PHILIPS	3500	4000	>80	87.5	Universal	Open	4-pin
40W TC-L 860	<b>LMP 11815</b>	OSRAM	3325	6000	>80	83.1	Universal	Open	4-pin
55W TC-L 830	<b>LMP 9759</b>	PHILIPS	4800	3000	>80	87.3	Universal	Open	4-pin
55W TC-L 840	<b>LMP 9191</b>	PHILIPS	4800	4000	>80	87.3	Universal	Open	4-pin
55W TC-L 865	<b>LMP 10461</b>	PHILIPS	4550	6500	>80	82.7	Universal	Open	4-pin
55W TC-L 950	<b>LMP 11469</b>	PHILIPS	3800	5300	>90	69.1	Universal	Open	4-pin
80W TC-L 835	<b>LMP 13601</b>	PHILIPS	6000	3500	>80	75.0	Universal	Open	4-pin
80W TC-L 830	<b>LMP 12347</b>	PHILIPS	6000	3000	>80	75.0	Universal	Open	4-pin
80W TC-L 840	<b>LMP 12348</b>	PHILIPS	6000	4000	>80	75.0	Universal	Open	4-pin
36W TC-F 840	<b>LMP 11902</b>	OSRAM	2810	4000	>80	78.1	Universal	Open	4-pin

## HIGH PRESSURE SODIUM LAMPS

DESCRIPTION	CAT. No.	MANUFACTURER	INITIAL LUMENS	CCT(K)	CRI (Ra)	lm/W	BURNING POSITION	LUMINAIRE TYPE	BASE
50W SON-E	<b>LMP 6592</b>	PHILIPS	3500	2000	25	70.0	Universal	Open	E27
70W SON-E	<b>LMP 6060</b>	PHILIPS	5600	2000	25	80.0	Universal	Open	E27
70W SON-E Twin Arc	<b>LMP 10801</b>	SYLVANIA	6000	2050	25	85.7	Universal	Open	E27
250W SON-E Twin Arc	<b>LMP 9881</b>	SYLVANIA	31500	2050	25	126.0	Universal	Open	E40
400W SON-E Twin Arc	<b>LMP 9882</b>	SYLVANIA	52500	2050	25	131.3	Universal	Open	E40
150W SON-E Plus	<b>LMP 7204</b>	PHILIPS	17000	1950	25	11.3	Universal	Open	E40
250W SON-E Plus	<b>LMP 7205</b>	PHILIPS	31100	2000	25	124.4	Universal	Open	E40
400W SON-E Plus	<b>LMP 7206</b>	PHILIPS	55500	2000	25	138.8	Universal	Open	E40
150W SON-E Comfort	<b>LMP 6380</b>	PHILIPS	12500	2150	65	83.3	Universal	Open	E40
250W SON-E Comfort	<b>LMP 6381</b>	PHILIPS	22000	2150	65	88.0	Universal	Open	E40
400W SON-E Comfort	<b>LMP 6566</b>	PHILIPS	37000	2150	65	92.5	Universal	Open	E40
250W SON-T Twin Arc	<b>LMP 9789</b>	SYLVANIA	32000	2050	25	128.0	Universal	Open	E40
50W SON-T Plus	<b>LMP 10028</b>	PHILIPS	4400	2000	25	88.0	Universal	Open	E27
70W SON-T Plus	<b>LMP 6233</b>	PHILIPS	6600	2000	25	94.3	Universal	Open	E27
100W SON-T Plus	<b>LMP 9748</b>	OSRAM	10700	2000	25	107.0	Universal	Open	E40
150W SON-T Plus	<b>LMP 7207</b>	PHILIPS	17500	1950	25	116.7	Universal	Open	E40
250W SON-T Plus	<b>LMP 7208</b>	PHILIPS	33200	2000	25	132.8	Universal	Open	E40
400W SON-T Plus	<b>LMP 7209</b>	PHILIPS	56500	1950	25	141.3	Universal	Open	E40
150W SON-T Comfort	<b>LMP 6773</b>	PHILIPS	13000	2150	65	86.7	Universal	Open	E40
250W SON-T Comfort	<b>LMP 6775</b>	PHILIPS	23000	2150	65	92.0	Universal	Open	E40
400W SON-T Comfort	<b>LMP 6767</b>	PHILIPS	38000	2150	65	95.0	Universal	Open	E40
400W SON-TD	<b>LMP 6626</b>	GE	43000	2000	25	107.5	Horizontal	Open	Rx7s
1kW SON-T / 240V	<b>LMP 6070</b>	GE	130000	2000	25	130.0	Universal	Open	E40

## METAL HALIDE LAMP SELECTION

Careful consideration must be given to metal halide lamp/luminaire compatibility. The following points should be checked when choosing suitable lamps.

- 1 **ELECTRICAL COMPATIBILITY** - lamps are generally compatible with either mercury (MBF) or high pressure sodium (SON) ballasts
- 2 **LUMINAIRE TYPE** - certain metal halide lamps are only suitable for use with enclosed luminaires
- 3 **UV REDUCED** - these lamps should be chosen in preference when polycarbonate covers are in use
- 4 **BURNING POSITION** - lamps will only give their optimum performance at their specified burning orientation

**IF IN DOUBT CONTACT OUR TECHNICAL DEPARTMENT FOR ADVICE**

## METAL HALIDE LAMPS

	DESCRIPTION	CAT. No.	MANUFACTURER	INITIAL LUMENS	CCT(K)	CRI (Ra)	lm/W	BURNING POSITION	LUMINAIRE TYPE	BASE
SON COMPATIBLE	70W MBI-UV Reduced	<b>LMP 9961</b>	VENTURE	5300	4000	65	75.7	Universal	Open	E27
	100W MBI-UV Reduced	<b>LMP 11064</b>	VENTURE	7700	4000	65	77.0	Universal	Open	E27
	100W MBI-UV Reduced	<b>LMP 10080</b>	VENTURE	8500	4000	65	85.0	Universal	Open	E40
	150W MBI-UV Reduced	<b>LMP 10081</b>	VENTURE	13300	4000	65	88.7	Universal	Open	E40
	250W MBI-UV Reduced	<b>LMP 10766</b>	VENTURE	20000	4000	70	80.0	HBU	Open	E40
	400W MBIF-UV Reduced	<b>LMP 9795</b>	VENTURE	40000	3700	70	100.0	BU	Open	E40
	250W MBIF - 5200K	<b>LMP 6415</b>	OSRAM	19000	5200	>90	76.0	Universal	Enclosed	E40
	400W MBIF - 5900K	<b>LMP 8278</b>	OSRAM	31000	5900	>90	77.5	Universal	Enclosed	E40
	70W MBIT	<b>LMP 10069</b>	VENTURE	5300	4000	65	75.7	Universal	Enclosed	E27
	70W MBI-UV Reduced	<b>LMP 9831</b>	IWASAKI	4500	3500	>90	64.3	Universal	Open	E27
	150W MBIT	<b>LMP 10068</b>	VENTURE	14000	4000	65	93.3	HBU	Enclosed	E40
	250W MBIT - 4000K	<b>LMP 9793</b>	VENTURE	19000	4000	65	76.0	HBU	Enclosed	E40
	400W MBIT - 4000K	<b>LMP 9796</b>	VENTURE	36000	4000	65	90.0	HBU	Enclosed	E40
	250W MBIT - 5400K	<b>LMP 6417</b>	OSRAM	20000	5400	>90	80.0	Universal	Enclosed	E40
	400W MBIT - 5200K	<b>LMP 8277</b>	OSRAM	32000	5200	>90	80.0	Universal	Enclosed	E40
	250W MBIFP - 6000K	<b>LMP 11488</b>	OSRAM	17000	6000	90	68.0	Universal	Open	E40
	250W HPI BUP Plus	<b>LMP 11097</b>	PHILIPS	18000	4300	69	72.0	BU	Open	E40
	400W HPI BUP Plus	<b>LMP 10555</b>	PHILIPS	32500	4300	69	81.3	BU	Open	E40
MBF COMPATIBLE	250W HPIT Plus	<b>LMP 10553</b>	PHILIPS	20500 ♦	4600 ♦	65	82.0	Horizontal	Enclosed	E40
	400W HPIT Plus	<b>LMP 10554</b>	PHILIPS	35000 ♦	4500 ♦	65	87.5	Horizontal	Enclosed	E40
♦ Figures are based on lamp operating with MBF/U control gear										
HIGH WATTAGE	1000W MBIL	<b>LMP 11346</b>	VENTURE	80000	5200	65	80.0	Horizontal	Enclosed	D/End
	1000W MBIF	<b>LMP 10942</b>	VENTURE	105000	3700	70	105.0	Universal	Enclosed	E40
	1000W MBIE	<b>LMP 9951</b>	VENTURE	105000	4000	65	105.0	Universal	Enclosed	E40
	1000W MHN-LA	<b>LMP 10604</b>	PHILIPS	100000	4200	>80	100.0	Horizontal	Enclosed	D/End
	2000W MHN-LA	<b>LMP 10006</b>	PHILIPS	220000	4200	>80	110.0	Horizontal	Enclosed	D/End
CERAMIC METAL HALIDE	35W CDM-TC 830	<b>LMP 12964</b>	PHILIPS	3300	3000	>80	94.3	Universal	Enclosed	G8.5
	70W CDM-TC 830	<b>LMP 12965</b>	PHILIPS	6400	3000	>80	91.4	Universal	Enclosed	G8.5
	20W CDM-Tm 830	<b>LMP 13466</b>	PHILIPS	1650	3000	>80	82.5	Universal	Enclosed	PGJ5
	35W CDM-T 830	<b>LMP 13568</b>	OSRAM	3600	3000	>80	102.9	Universal	Enclosed	G12
	70W CDM-T 830	<b>LMP 10568</b>	PHILIPS	6600	3000	>80	94.3	Universal	Enclosed	G12
	70W CDM-T 942	<b>LMP 11101</b>	PHILIPS	6600	4200	>90	94.3	Universal	Enclosed	G12
	150W CDM-T 830	<b>LMP 10569</b>	PHILIPS	14000	3000	>80	93.3	Universal	Enclosed	G12
	150W CDM-T 942	<b>LMP 11102</b>	PHILIPS	12700	4200	>90	84.7	Universal	Enclosed	G12
	70W CDM-TD 830	<b>LMP 10768</b>	PHILIPS	6500	3000	>80	92.9	Horizontal	Enclosed	D/End
	70W CDM-TD 942	<b>LMP 11103</b>	PHILIPS	6000	4200	>90	85.7	Horizontal	Enclosed	D/End
	150W CDM-TD 830	<b>LMP 10769</b>	PHILIPS	13250	3000	>80	88.3	Horizontal	Enclosed	D/End
	150W CDM-TD 942	<b>LMP 11104</b>	PHILIPS	14200	4200	>90	94.7	Horizontal	Enclosed	D/End
	70W CDO-TT 828	<b>LMP 10358</b>	PHILIPS	6300	2800	>80	90.0	Universal	Enclosed	E27
	100W CDO-TT 828	<b>LMP 12227</b>	PHILIPS	8700	2800	>80	87.0	Universal	Enclosed	E40
	150W CDO-TT 828	<b>LMP 10359</b>	PHILIPS	13500	2800	>80	90.0	Universal	Enclosed	E40

## LOW VOLTAGE TUNGSTEN HALOGEN LAMPS

DESCRIPTION	CAT. No.	MANUFACTURER	INITIAL LUMENS	CCT(K)	CRI (Ra)	lm/W	BURNING POSITION	LUMINAIRE TYPE	BASE
12V 20W GU4 30 deg	<b>LMP 11081</b>	PHILIPS	n/a	2900	100	n/a	Universal	Open	2-pin
12V 50W GU5.3 36 deg	<b>LMP 11088</b>	PHILIPS	n/a	2900	100	n/a	Universal	Open	2-pin
12V 45W GU5.3 60 deg	<b>LMP 12596</b>	PHILIPS	n/a	2900	100	n/a	Universal	Open	2-pin
12V 35W GU4 30 deg	<b>LMP 11187</b>	PHILIPS	n/a	2900	100	n/a	Universal	Open	2-pin

## TUNGSTEN HALOGEN LAMPS

DESCRIPTION	CAT. No.	MANUFACTURER	INITIAL LUMENS	CCT(K)	CRI (Ra)	lm/W	BURNING POSITION	LUMINAIRE TYPE	BASE
205W T/H E27	<b>LMP 6713</b>	OSRAM	4200	2900	100	20.5	Universal	Open	E27

## LEDS

DESCRIPTION	CAT. No.	MANUFACTURER	INITIAL LUMENS	CCT(K)	CRI (Ra)	lm/W	BURNING POSITION	LUMINAIRE TYPE	BASE
LED 4W GU10 40 deg	<b>LMP 14888</b>	PHILIPS	180	3000	80	45.0	Universal	Open	2-pin
LED 6W GU10 35 deg	<b>LMP 15610</b>	MEGAMAN	410	2800	80	68.3	Universal	Open	2-pin

## TRANSFORMERS

### TRANSFORMERS - IP20

TYPE	CAT. No.	RATING	L	H	W	CRS. (mm)	kg
Electronic, dimmable	<b>TRA 18/580</b>	35-75VA	150	35	49	144	0.2
Electronic, dimmable	<b>TRA 18/453</b>	50-155VA	190	41	54	160 x 42	0.4
Electronic, dimmable	<b>TRA 18/215</b>	50-210VA	190	41	54	160 x 42	0.4
LED Driver	<b>LED 13620</b>	11W (350mA)	128	28	37	117	0.6