





RADIANCE



The Thorlux Radiance is a UK designed and manufactured LED edge-lit panel built to a high specification. It uses fire retardant exposed parts and the control gear is housed in a metallic enclosure securely fixed to the rear of the luminaire.

Versions are available for use with exposed T ceilings, solid ceilings and suspended applications with an additional installation kit providing an option for cut-aperture plasterboard ceilings.

Several power choices are complemented with emergency derivatives and Smart energy saving versions.



CONSTRUCTION



The sophisticated shallow construction of the Radiance incorporates all the control gear into the luminaire housing. This removes the need for a separate remote gear enclosure secured elsewhere behind the ceiling and ensures that all parts of the luminaire are properly earthed and electrically safe.



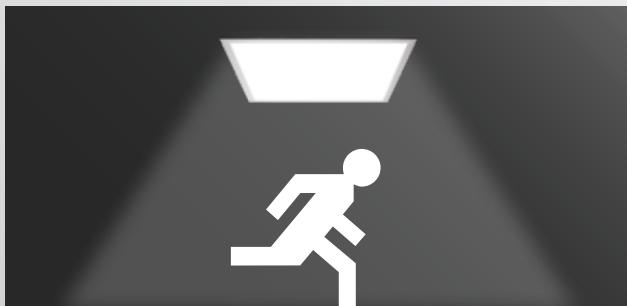
High quality, high power factor electronic control gear is used, and a fused live terminal is fitted for circuit protection.



192 medium power LEDs are placed around the edges of the luminaire, mounted onto aluminium backed circuit boards, for excellent thermal transfer and for optimum cooling.



Excellent overall thermal management of the LEDs and control gear provides a life expectancy of the system of 67,000 hours to L80 B10.



Integral emergency gear operates all of the LEDs, at a reduced level, in the event of a power failure.



Smart recessed versions use a discreetly mounted Smart sensor and can often provide energy savings in excess of 70%. Smart versions are installed quickly and correctly with the new Thorlux made LCM fast wiring system, saving installation time and costs.



GEAR COMPARTMENT

Hinges for easy access/wiring. Zinc plated steel powder coated black.

BODY

Corrosion resistant galvanised steel.

REFLECTOR

Maximises downward light efficiency, exceeding 100 luminaire lumens per circuit watt.

LIGHT GUIDE

Ensures that the front panel is illuminated uniformly without any dark areas or the "spotting" so often associated with LED luminaires.

DIFFUSER

Opal or LG7 flame retardant polycarbonate.
TP(a) rating for compliance with UK Building Regulations.

LED CIRCUIT BOARDS

Fitted to extruded heat sink frame.



LG7 VERSIONS

LG7 versions of the Radiance utilise a micro-prism diffuser which provides excellent optical control and dramatically reduces glare. In accordance with LG7:2015 (Office Lighting Guide) and BS EN 12464-1:2011 (Light and lighting, Indoor work places.)

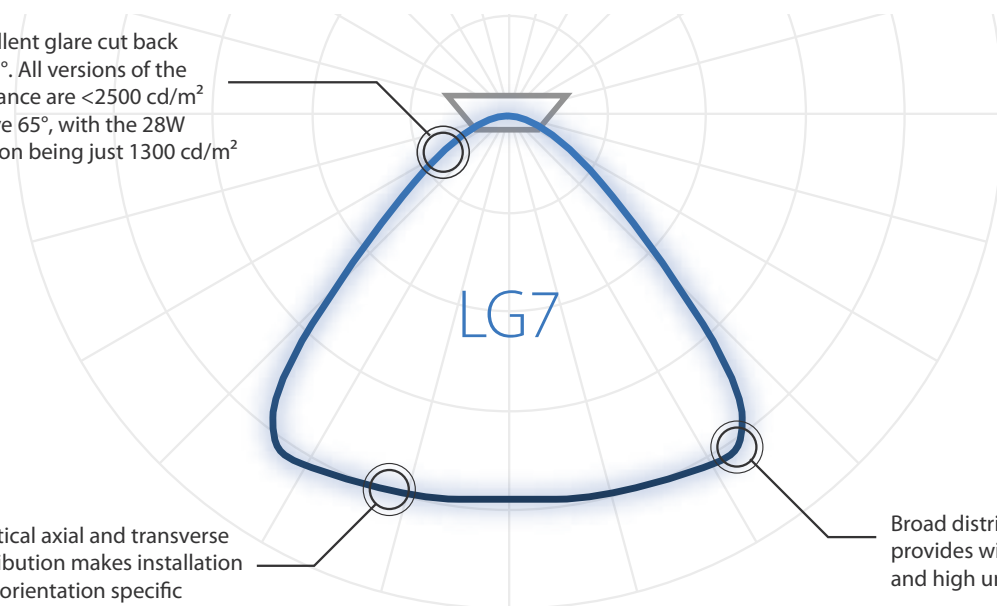
Luminaires are required to meet luminance and unified glare rating (UGR) limits in order to facilitate a comfortable working environment and limit reflections in computer screens.

The high performance micro-prism diffuser not only optimises the light distribution but also carefully controls the luminance and glare making it ideal for office applications.

Excellent glare cut back at 65°. All versions of the Radiance are $<2500 \text{ cd/m}^2$ above 65°, with the 28W version being just 1300 cd/m^2

Identical axial and transverse distribution makes installation non-orientation specific

Broad distribution provides wide spacings and high uniformity

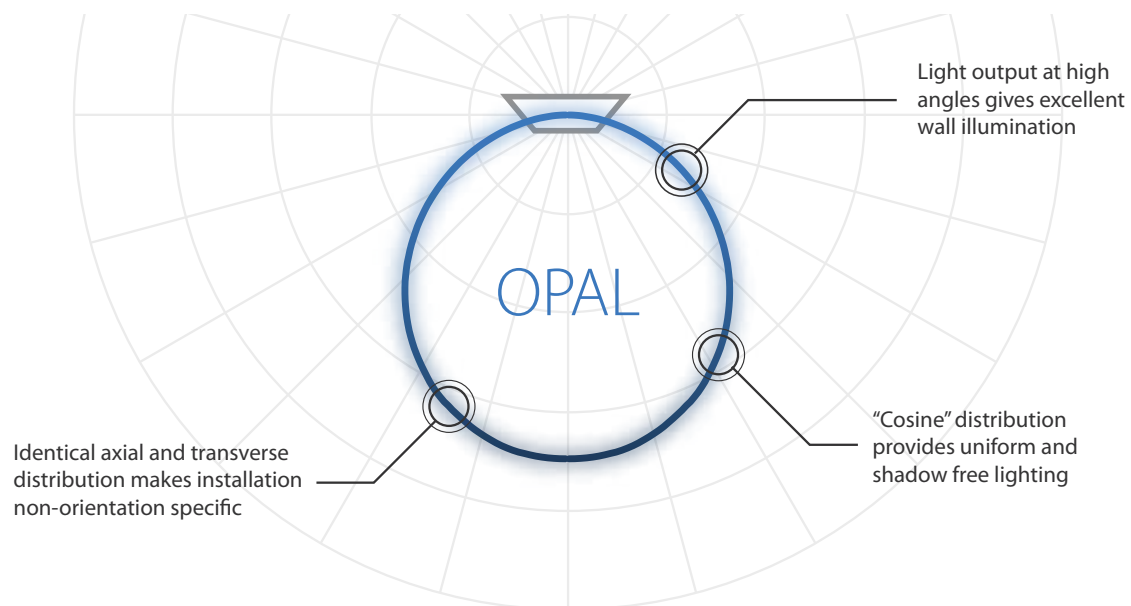


◆ LUMEN OUTPUT OPTIONS:
2085lm - 6695lm

OPAL VERSIONS



Opal versions of the Radiance provide an outstanding general purpose luminaire having a uniform "sky light" appearance with excellent wall illumination and uniformity.



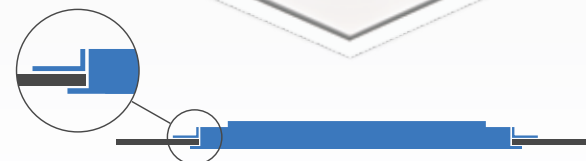
◆ LUMEN OUTPUT OPTIONS
2335lm - 7650lm



RECESSED



Recessed version suitable for
15 & 24mm exposed "T" ceilings



Additional accessory allows the Radiance to be
recessed into a plasterboard cut aperture ceiling.

SUSPENDED



Slim profile with wider aluminium frame provides the illusion of a floating illuminated panel





Surface versions with aluminium frame. Cable entries are provided to the rear and at opposing sides to allow wiring with 20mm conduit.



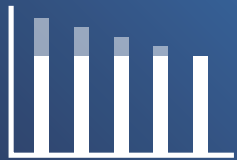
SMART ENERGY SAVING CONTROLS

The Thorlux Smart System exploits the latest 'Digital Technology' to provide a simple, effective method of lighting control which minimises energy consumption whilst retaining high levels of user comfort.

A discrete sensor integral to the luminaire monitors ambient light and presence, controlling output to the correct level, and ensuring that the area is only illuminated when occupied.

Individual Thorlux Smart luminaires may be linked using a 'Motionline' two wire low voltage bus allowing luminaires to communicate within a group. Upgrading to SmartScan provides the option of full wireless Motionline control between Smart luminaires eliminating the need for additional cabling.

Savings by the installation of automatic lighting control systems often exceed 70%.



MAINTAINED ILLUMINANCE

Smart luminaires maintain the desired lighting level throughout the maintenance cycle by automatically increasing LED output as the light source ages, avoiding over lighting new installations.



DAYLIGHT DIMMING

When daylight enters an area the sensors will take this light into account and gradually dim the LEDs, saving energy whilst maintaining the required light level.



MOVEMENT DETECTION

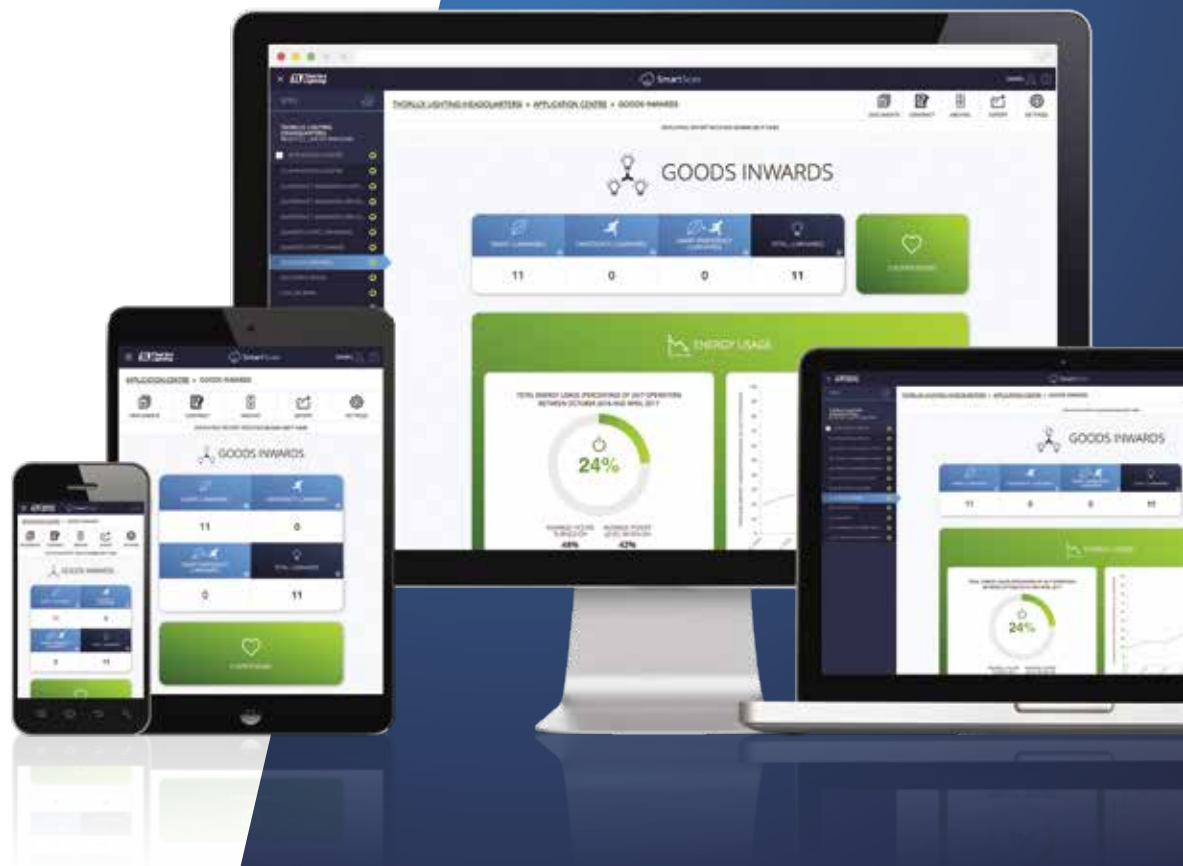
Presence sensors in all luminaires ensure excellent detection coverage, so that Smart luminaires switch on when movement is detected and stay on whilst the room is being used.

FULL STATUS MONITORING OF YOUR HIGH BAY LUMINAIRE FROM THE GROUND

The functional status and energy performance of SmartScan luminaires can be monitored from anywhere via the SmartScan website (SmartScan Gateway required), or from the ground using the SmartScan Programmer.

The website provides an easy to read visual reference highlighting the following:

- Control gear status monitoring
- Light source functionality
- Thermal performance (the luminaire is operating within correct temperature limits)
- Average energy used by the luminaire
- Total hours powered
- Full energy performance monitoring



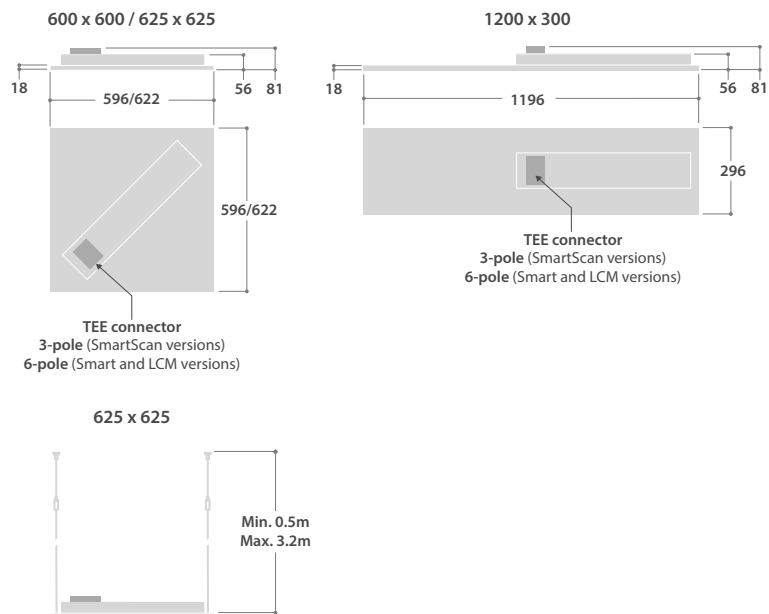
www.thorlux.com/smartscan



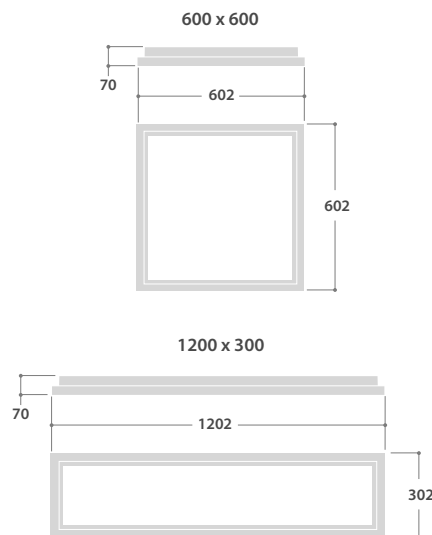
TECHNICAL INFORMATION

DIMENSIONS

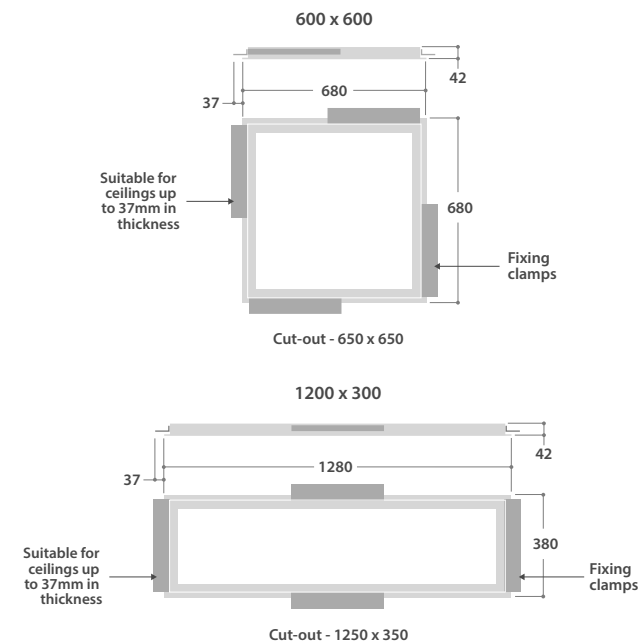
RECESSED / SUSPENDED



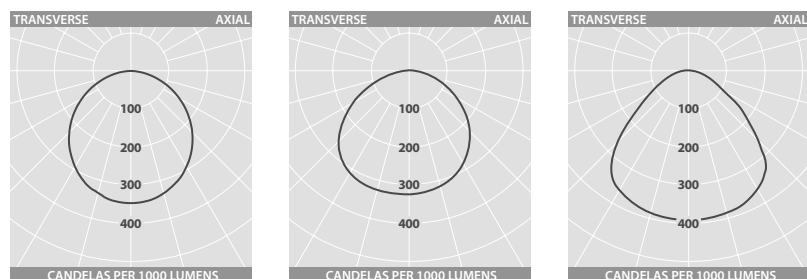
SURFACE



RECESSING FRAME (FOR PLASTERBOARD CEILINGS)



PHOTOMETRIC GUIDE



600 x 600 - OPAL

Luminaire Lumen Output
16W = 2335lm
28W = 4130lm
38W = 5375lm
51W = 7650lm

1200 x 300 - OPAL

Luminaire Lumen Output
16W = 2255lm
28W = 4011lm
38W = 5180lm
51W = 7315lm

600 x 600 - LOW GLARE

Luminaire Lumen Output
16W = 2085lm
28W = 3715lm
38W = 4770lm
51W = 6695lm

• Exceeds EN12464-1 / LG7 3000 cd/m² limit

RECESSING FRAME KIT FOR PLASTERBOARD CEILINGS - FINISHED SATIN WHITE RAL9016

DESCRIPTION	CAT. No	APPROX. kg
600 x 600*	RAD 16877	3.7
1200 x 300*	RAD 16878	4.2

* For use with recessed luminaires

ORDERING EXAMPLE:

600 x 600 Radiance 16W Opal Smart for recessing into plasterboard ceiling -
RAD 16400D/RAD 16877

WEB LINK >
"PLUG AND PLAY"
LIGHTING CABLE
MANAGEMENT



LED EDGE-LIT LUMINAIRES



SPECIFICATION

- Strong extruded aluminium heat sink frame
- Fire-retardant polycarbonate flat panel opal diffuser or LG7 micro-prism diffuser
- Zinc coated steel gear enclosure securely fastened to the luminaire housing
- Recessed lay in, plasterboard, surface and suspended options
- Edge-lit diffuser technology eliminates visible LEDs
- Smart versions with intelligent lighting control
- SmartScan wireless technology removes the need for control cabling. Ideal for retro-fit
- Fitted with 4000K LEDs

LED CHARACTERISTICS

CRI	80+
COLOUR TEMPERATURE	4000K
RATED LIFE (HOURS)	67K - L80/B10
PROTECTION	LUX GUARD
DRIVER EFFICIENCY	>85%
REPLACEABLE	-
POWER FACTOR	>0.9
LL/CW	133.2

For LED characteristics explanation see www.thorlux.com/led-guide

HIGH COLOUR RENDERING RA90+
VERSIONS AVAILABLE TO SPECIAL ORDER

RECESSED - FINISHED ANODISED SILVER

	NOMINAL SIZE (mm)	LED	OPAL VERSION	LG7:2015 VERSION	APPROX. kg	CIRCUIT
SMART	600 x 600	16W	RAD 16400	RAD 16721	7.0	D/SS
		28W	RAD 16401	RAD 16722	7.0	D/SS
		38W	RAD 16402	RAD 16723	7.0	D/SS
		51W	RAD 16403	RAD 16724	7.0	D/SS
	1200 x 300	16W	RAD 16713		7.0	D/SS
		28W	RAD 16714		7.0	D/SS
		38W	RAD 16715		7.0	D/SS
		51W	RAD 16716		7.0	D/SS
STANDARD	600 x 600	16W	RAD 16404	RAD 16725	6.9	L/A
		28W	RAD 16405	RAD 16726	6.9	L/A
		38W	RAD 16406	RAD 16727	6.9	L/A
		51W	RAD 16407	RAD 16728	6.9	L/A
	1200 x 300	16W	RAD 16717		6.9	L/A
		28W	RAD 16718		6.9	L/A
		38W	RAD 16719		6.9	L/A
		51W	RAD 16720		6.9	L/A

1200 x 600mm VERSIONS AVAILABLE TO SPECIAL ORDER

SURFACE- FINISHED SATIN WHITE RAL9016

	NOMINAL SIZE (mm)	LED	OPAL VERSION	LG7:2015 VERSION	APPROX. kg	CIRCUIT
SMART	600 x 600	16W	RAD 16920	RAD 16928	10.7	D/SS
		28W	RAD 16921	RAD 16929	10.7	D/SS
		38W	RAD 16922	RAD 16930	10.7	D/SS
		51W	RAD 16923	RAD 16931	10.7	D/SS
	1200 x 300	16W	RAD 17054		11.0	D/SS
		28W	RAD 17055		11.0	D/SS
		38W	RAD 17056		11.0	D/SS
		51W	RAD 17057		11.0	D/SS
STANDARD	600 x 600	16W	RAD 16924	RAD 16932	10.6	L/A
		28W	RAD 16925	RAD 16933	10.6	L/A
		38W	RAD 16926	RAD 16934	10.6	L/A
		51W	RAD 16927	RAD 16935	10.6	L/A
	1200 x 300	16W	RAD 17058		10.9	L/A
		28W	RAD 17059		10.9	L/A
		38W	RAD 17060		10.9	L/A
		51W	RAD 17061		10.9	L/A



SUSPENDED - FINISHED ANODISED SILVER

	NOMINAL SIZE (mm)	LED	CAT. No.	APPROX. kg	CIRCUIT
SMART	600 x 600	16W	RAD 17005	7.4	D/SS
		28W	RAD 17006	7.4	D/SS
		38W	RAD 17007	7.4	D/SS
		51W	RAD 17008	7.4	D/SS
	1200 x 300	16W	RAD 17013	7.4	D/SS
		28W	RAD 17014	7.4	D/SS
		38W	RAD 17015	7.4	D/SS
		51W	RAD 17016	7.4	D/SS
STANDARD	600 x 600	16W	RAD 17009	7.3	L/A
		28W	RAD 17010	7.3	L/A
		38W	RAD 17011	7.3	L/A
		51W	RAD 17012	7.3	L/A
	1200 x 300	16W	RAD 17017	7.3	L/A
		28W	RAD 17018	7.3	L/A
		38W	RAD 17019	7.3	L/A
		51W	RAD 17020	7.3	L/A

CIRCUIT TYPE - suffix catalogue number with:

SMART D - Smart / SS - SmartScan
STANDARD L - non-dimming / A - dimming (DALI)
 e.g. **RAD 16400SS** etc.

EMERGENCY VERSION - prefix catalogue number with:

ERD - Emergency } (Not available when selecting the 'SS' suffix)
TRD - AutoTest
WRD - SmartScan (Only available when selecting the 'SS' suffix)
 e.g. **WRD 16400SS** etc.
 Add 0.3kg to weights listed.

SmartScan Configurations



Find out more at www.thorlux.com/smartsan



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The information given in this catalogue is typical and must not be interpreted as a guarantee of individual product performance and/or characteristics. We reserve the right to alter specifications and designs without prior notice.

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