

COMMERCIAL LIGHTING

PREMIUM LED PANEL RANGE



Codes -	Standard:	R6060LED-40	R60120LED-40
DALI Dimmable:		R6060LEDD-40	R60120LEDD-40
IP54:		R6060LEDIP54-40	R60120LEDIP54-40
Emergency Versions:	Insert an E before the dash e.g. R6060LED E -40		
Comparable to:		4 x 18W SS	4 x 36W SS
Light Output(lm):		2600	5000
Lux @ 1m (lx):		1000	1800
Beam Angle (°):		120	120
Colour Temp(k):		5,500	5,500
CRI (Ra):		72	72
Power (W):		38	74
Efficacy (lm/cctW):		69	67
Power factor:		0.93	0.93
Dimensions (mm):		595 x 595 x 14	595 x 1195 x 14
IP (Standard Panel):		20	20
Box Qty:		1	1
Weight (Kg):		4.6	10.5
Guarantee (yrs):		5	5

These clean looking, slim profile LED light panels are quick and simple to install. They replace the standard T8 lay-in modular's to provide energy efficient, but perhaps more importantly, low maintenance solutions where constant replacement of fluorescent tubes and cleaning of the fitting can be avoided. Installed where energy savings and low maintenance costs are of paramount importance they will enable the building to achieve a low carbon footprint and comply with current and foreseeable building regulations efficacy requirements, producing a massive 69 luminaire lumens per circuit watt. Applications include:

- Offices
- Hospitals
- Health Centres
- Restaurants
- Shops
- Reception areas
- Hotels
- Universities
- Schools
- Toilets
- Kitchens
- Inspection areas

FEATURES	BENEFITS
• High quality, high flux SMD LED arrays producing high output with low lumen depreciation	• Very efficient with low running costs
• Up to 69 Lumens / circuit watt	• Energy savings of >50% compared to T8
• 50,000 hours average LED life	• High efficacy exceeds Part L requirements
• LED suitable for PIR switching	• Up to 5 times longer life than standard fluorescent tubes
• 5,500 Kelvin colour temperature	• No tube changes provide low maintenance costs
• Emergency option for all panel types & sizes	• Traditional fluorescents are adversely affected by PIR switching. LED is not
• Driver complete with male and female loop in/out connectors	• Results in additional energy, replacement tube and labour cost savings
• Slim profile	• Ideal working environment colour
• Low glare diffuser	• Keeps people alert
• Clean & stylish lines with aluminium trim	• Bright, safe emergency lighting on mains failure
• Cool light output without Infra Red	• Enables first fix installation for testing and avoids damage to panels
• No UV content	• Allows simple driver and panel connection on completion
• Contains no mercury or other heavy metals	• Simple installation compared to bulky lay-in modules
• Fits into standard grid size ceiling	• No eye strain or discomfort
• Optional suspension and surface mounting kits	• Looks attractive in any installation type
• IP20/54 versions	• Easy clean and less likely to harbour germs or dirt
	• More pleasant work environment with less cooling required
	• Will not damage heat sensitive objects
	• No fading, no burning if touched, safe light source
	• Environmentally friendly
	• Reduced disposal costs
	• Fast and simple installation and connection
	• Provides alternative mounting options for solid or sloping ceilings
	• Suitable for many applications

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Building on the fantastic features & benefits of this truly superb range of LED panels, we now introduce two new variants:

- The IP54 range – specially developed for areas when excessive moisture and/or dust may be present
- The DALI dimmable LED light panel range to make even greater energy and maintenance cost savings. These utilise a Robus DALI driver which works in conjunction with third party DALI controls to either manually or automatically switch on and off, and dim or brighten the light output from the LED panels

IP54 LED light panels:

With the same great energy saving photometric and electrical characteristics, these LED panels offer an extra dimension to the applications they are suitable for and can be matched with the Robus DALI dimmable driver for increased energy cost savings.

With Ingress Protection rating of 54 they are suitable for installation in all areas where they may be subject to water spray or dust:

- Industrial units' • Manufacturing & assembly areas • Clean rooms • Toilets • Wash rooms' • Food preparation

DALI dimmable LED light panels:

Automatic operation:

How does it work?

- Lighting designs have to assume that there will be no natural light in an area at certain times
- This means that when there is natural light, unnecessary energy is being consumed with lighting at full output
- It also means that an area could be too bright at certain times which can be as uncomfortable as being too dark
- Energy savings associated with LED can now be further increased with **Daylight Harvesting**

What is Daylight Harvesting?

- Daylight harvesting is the utilisation of any natural light available to reduce the amount of additive light needed to provide the required light level for a specific area and task. Daylight harvesting requires a compatible lighting control system to achieve this

How is this achieved?

- The control system:
 - Should be compatible with the DALI driver provided by Robus
 - Is programmed to achieve a "set point" lux level for the area
 - Monitors the area for both presence and light level
 - Sends a signal to the DALI drivers it controls to switch on or off based on presence detection settings
 - Continually sends signals to the DALI driver to either brighten or dim the light output so as to only add as much light as is necessary to achieve the "set point" lux level

What are the benefits of Daylight Harvesting?

- This ensures that only as much added light is used to compliment natural light to achieve the set lux level for the tasks being carried out
- This reduces power consumption dramatically to achieve significant energy cost savings - As much as 50% savings are achievable
- Because the LED's are often running substantially below their normal rating, LED life may be substantially increased
- It ensures the area is being lit to the correct light level for the tasks so provides optimum eye comfort

Manual Operation:

Often there is a requirement for functional control of lighting. This may be required in rooms which are used for different applications or tasks. Typical applications could be for lighting in meeting rooms. Although it may be a requisite to turn on lighting when the area is occupied or automatically turn it off when not occupied (absence detection), the lighting may need to be manually overridden, dimmed down or turned off, when presentations are being made. Using the Robus DALI LED panels and appropriate third party controls the following can be achieved:

- Automatic or manual on/off
- Manual dimming of light level
- Scene setting for different applications