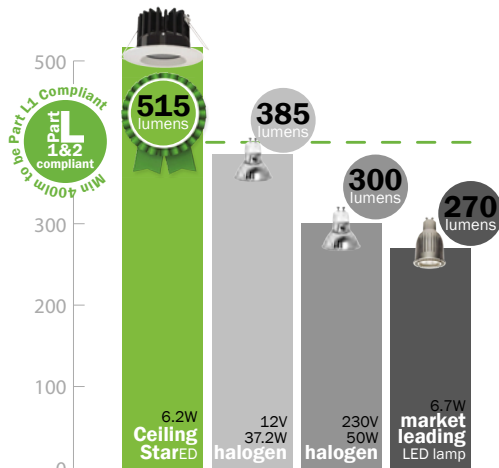
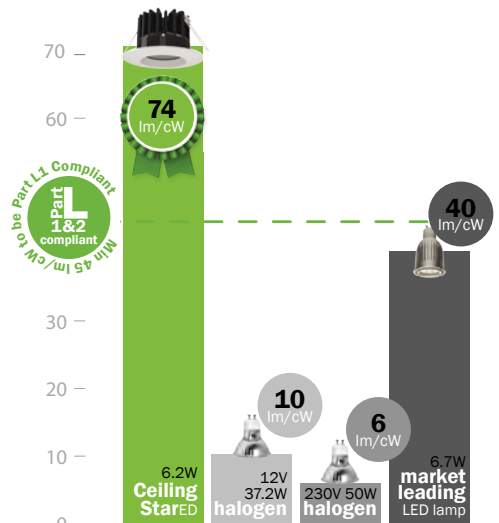


UK Building Regulations



Brightness (total delivered lumens)



Efficacy (delivered lm/cW)

CeilingStar ED

6.2W, Mercury 630 light engine, 3000K, 32° beam angle

UK Building Regulations were revised in October 2010. Part L refers to conservation of fuel and power and encompasses lighting.

- L1A for new dwellings
- L1B Existing dwellings
- L2A New buildings other than dwellings
- L2B Existing buildings other than dwellings

New dwellings must also comply with the new Code for Sustainable homes which has further requirements to Building Regulations for energy and CO₂ emissions.



A Summary of Part L1:

- AT least 75% of fittings must be low energy, defined as
 - Efficiency greater than 45 lamp lumens/circuitW
 - Delivering at least 400lm
- Fittings less than 5W are exempt from the total count
- Fittings in infrequently accessed areas (such as cupboards) are exempt
- Halogen and GLS lamps are highlighted in the guidelines as non compliant

All PhotonStar fittings comply, subject to the light engine choice:

- | | |
|-----------|----------------|
| • Titan | • Jupiter |
| • Mercury | • SmartWhite |
| • Venus | • SmartJupiter |
| • Aries | |

A Summary of Part L2 :

- A minimum 55 luminaire lumens/circuit Watt, averaged over the whole area for general lighting
- A minimum 22 lamp lumens/circuit Watt, averaged over the whole area for display lighting
- A control factor of 0.9 can be applied to the efficiency when occupancy sensors are used
- A control factor of 0.9 can be applied to the efficiency when daylight sensors are used
- A control factor of 0.85 can be applied when both types of controls are used
- It is not necessary for individual luminaires to meet 55 luminaire lumens per circuit Watt, giving the designer flexibility to use a mix of technologies that average 55 lm/cW.

All PhotonStar™ products exceed the requirements for display lighting, and the following light engines meet (and in many cases dramatically exceed) 55lm/cW in most fittings:

- | | |
|-----------|--|
| • Titan | • SmartWhite |
| • Mercury | • SmartJupiter |
| • Venus | • SmartNemesis and LEDsmart controls attract the control factors when installed in eligible areas. |
| • Aries | |
| • Jupiter | |

For more details and downloads visit our website
www.photonstarlighting.co.uk