

Glossary

A

Accent
Where light is used to emphasize or highlight objects or merchandise.

Ambient
Lighting that defines the extent of a space.

B

Ballast lumen factor BLF (%)
The ratio of light output on emergency operation to the nominal light output.

C

Candela (cd)
The unit of luminous intensity

Colour Rendering Index Ra(%)
A measure of the degree to which the colour rendition of a light source differs on average from that of the lamp. Values of 100-90 are good. 90-80 less good and lamps with Ra's below 80 should not be used where colour rendition is key.

Colour Temperature Tc(K)
Black bodies (like most others) when heated to sufficiently high temperatures emit red light, when the temperature is increased further the emitted light becomes white.

The colour co-ordinates derived from this heated black body (a full spectral, or perfect radiator) when plotted on the diagram lie on a smooth curve known as the full radiator locus, and are shown on the CIE Chromacity Diagram and is generally quoted in degrees Kelvin.

Cone Diagrams
Shows whether the luminaire emits a narrow or wide beam of light and indicates the lighting level measured at the centre of the beam. The Ø symbol represents the beam diameter at ½ the peak intensity.

Blade™ B50T & B50L Angle 60°
12V 50mm Ø 20W DICHOIC

HGT	LUX	Ø
1.0m	350	115cm
2.0m	88	231cm
3.0m	39	346cm
4.0m	22	462cm

Typically applied to downlights and spotlights in this catalogue.

E

Efficacy
How well a luminaire uses the luminous flux of the lamp. It is indicated in the lighting graphs by LOR (light output ratio).

Emergency Lighting
Lighting provided for when mains lighting installation falls.

Emergency lighting design lumen (ELDL)
ELDL indicates the guaranteed light output from a lamp on emergency operation. It is used when calculating emergency lighting, the wall, ceiling and floor reflectances must be set at zero.

Escape Route Lighting *(Used to define escape routes)*
Emergency lighting provided to avoid panic and provide illumination to allow people to reach a place where an escape route can be identified.

G

Glare
Glare is the discomfort caused by different levels in luminance and can strain the eyes.

H

High Risk Task Area Lighting (New Category)
That part of Emergency Escape Lighting provided to ensure the safety of people involved in a potentially dangerous situation and to enable proper shut down procedures for the safety of the operator and other persons.

L

Light
Electromagnetic radiation with a wavelength between 380-720nm.

Lighting Level
The incidence of light flux on a surface per unit of area measured in lux.

Light output ratio

- **(DLOR)**
The ratio of the luminaire downward light output to lamp light output. The efficiency of the luminaire.
- **(ULOR)**
The ratio of the luminaire upward light output to lamp light output. The efficiency of the luminaire.

Lumen (lm)
Unit of luminous flux used to describe a quantity of light emitted by a source or received by a surface.

Luminance
The measure of brilliance with which the eye perceives an illuminated surface from a certain direction. The luminous intensity per unit of visible surface of a light source (direct) or an illuminated surface (reflection). Luminance is indicated in candelas per square metre (cdm²)

Luminous efficacy (lm/W)
Indicates how efficiently a lamp converts electrical energy to light.

Luminous flux
The total light output or a lamp measured in lumens (lm)

Luminous intensity
The power of a source or illuminated surface to emit light in a particular direction, measured in candela.

Lux (lux)
The unit of illuminance, equal to one lumen per square metre (lm/m²).

M

Maintained Emergency Lighting
A lighting system in which all emergency lighting lamps are in operation at all material times.

Maintenance factor
Lighting levels decrease in time due to soiling, lamp and environment deterioration. Mean values are 0.72 for a normal interior and 0.85 for a very clean one.

Non-Maintained Emergency Lighting
A lighting system in which all emergency lighting lamps are in operationally when the normal lighting fails.