

LD45 & LD46



Low Glare Interior/Exterior Wall or Step lights

Data sheet - Page 1



Design: MBLD Project: Hilton, Manchester Product: LD248

Available in round or square, the LD45/46 will fit into most architectural styles. Manufactured with a machined stainless steel 316 bezel and black anodised body these can be used for indoor and outdoor use. The compact design with the optic set back makes them ideal for steplighting. A 12° lens will kiss light across the step or 31° lenses to wash light more directly to the edges. Available with a choice of lens angles and LED colours.

Key Features

- LED and lens assembly recessed within a black anodised body for reduced glare
- High quality machined bezel and body
- Square and round versions available
- Glass fixed with hidden gasket, so no unsightly glue line
- No visible fixings. Options include spring fixing clips or O-rings and a first fix sleeve
- Can be used for external and internal applications
- Integral anti-wicking barrier increases protection against moisture ingress due to incorrect IP rated cable connections
- Range of bezel finish options including stainless steel and paint finishes
- Available with Switch, 0-10V, DMX, Dali or Mains dimmable drivers

Specification

| Applications | | | | | | |
|---|--|------|------|-------|------|------|
| Beam Angles | 12°, 31°, 48°, 36° x 12° | | | | | |
| LED type | 1 x Cree XPG2 | | | | | |
| Colour temperature | 2700K** / 3000K | | | 5000K | | |
| Drive Current (mA) | 350 | 500 | 700 | 350 | 500 | 700 |
| LED power* (W) | 1.2W | 1.7W | 2.4W | 1.2W | 1.7W | 2.4W |
| CRI (typical) | 93 | 93 | 93 | 75 | 75 | 75 |
| Forward voltage (V) ₁₀₀ | 3.0V | 3.2V | 3.4V | 3.0V | 3.2V | 3.4V |
| Delivered lumens** (L ₁₀₀) | 93 | 127 | 167 | 113 | 154 | 206 |
| Lumens per circuit watt | 78 | 75 | 70 | 94 | 91 | 86 |
| LED lifetime (to 70% lumen maintenance) | 50,000hrs at a max ambient temperature of 35°C (if specifying fitting in ambient temperatures of up to 45°C run at 500mA max, LD45/46-500) | | | | | |
| Materials | Black anodised aluminium body, Machine finish 316 stainless steel bezel (other options available) | | | | | |
| Glass | 5mm thick borosilicate | | | | | |
| Wiring | Comes pre-wired with 2 core 100mm lead, can be specified with up to 10m at extra cost | | | | | |
| IP rating | IP67 | | | | | |

* LED wattage includes losses associated with using an 85% efficient driver

** 2700K lumen output is 12% lower than the 3000K figure listed

4000K lumen output is 14% higher than the 3000K figure listed (80 CRI)

LD45



LD46



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Data sheet - Page 2

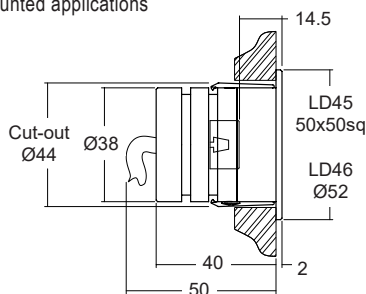


Design: Light IQ. Project: Private Residence

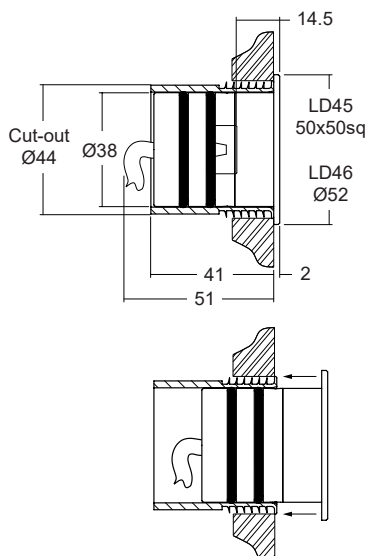
Dimensions and Fixing Options

/SC - Spring clip fixing

Useful for most wall mounted applications


/476 - O-rings and sleeve

A more robust and water tight method of fixing, for wet areas



(Dimensions in mm)

Photometrics

Photometric files are included in the design pack which can be downloaded from the LD45 & LD46 product page on the website.

Order Codes and Options

| Product code | LED colour | Lens angle | Finish | Fixing |
|---------------------------------|------------|------------|--------|--------|
| LD45/46 - 350 - 500 - 700 | | | | |

Example: LD45-700 / LW30 / MB / Stainless steel / 476

Product codes with output options

| | |
|-------------------|--------------------|
| 1.2W LED at 350mA | LD45-350, LD46-350 |
| 1.7W LED at 500mA | LD45-500, LD46-500 |
| 2.4W LED at 700mA | LD45-700, LD46-700 |

LED colour options

| LED colour options | Suffix |
|----------------------------|--------|
| Extra Warm White (2700K) | /LW27 |
| Warm white (3000K) | /LW30 |
| White (4000K) - on request | /LW40 |
| Cool White (5000K) | /LW50 |
| Blue | /LB |
| Green | /LG |
| Red | /LR |
| Amber | /LA |

Beam / lens angle options

| | |
|----------------------------|-----|
| 12° narrow spot | /NB |
| 31° medium | /MB |
| 48° wide | /WB |
| 36° x 12° oval (LD46 only) | /OB |

Bezel finish options

Stainless steel 316
 Paint finish white / black / RAL
 Polished and passivated stainless steel (for marine environments)

Fixing options

| | |
|------------------------------|------|
| Spring clips | /SC |
| First fix sleeve and O-rings | /476 |

Use with 350mA, 500mA or 700mA constant current LED drivers

We have a wide range of dimmable LED drivers, 0-10V, DMX, DALI and Mains dimmable. Please see the downloads section on our website:

To run 1-14 LD45/LD46-350 in series use a TXDEL350D (0-10V dimmable)

To run 1-14 LD45/LD46-500 in series use a TXDEL500D (0-10V dimmable)

To run 1-13 LD45/LD46-700 in series use a TXDEL700D (0-10V dimmable)