LD141G

COMPACT TRIMLESS INTERIOR/ EXTERIOR RECESSED LED UPLIGHT/ WALL LIGHT





















The LD141G has been designed for exterior applications, with an IP67 rating and a robust seamless all glass bezel. Compact in size, the fitting offers a powerful output with a large range of features. There are 2 LED engine options $\,$ available. The E3 engine delivers a high output of 567 lumens and beam angles ranging from a 12° narrow to a 15° x 49° extra oval beam, whilst the F1 engine offers a super warm colour temperature of 2200K. Both configurations offer the ability to specify a 20° tilt film to angle the light down onto the lit surface for a more concentrated effect. Designed with our glass bezel, the LD141G offers a discreet, low-glare solution for a range of exterior-rated applications.





KEY FEATURES

- High-power E3 engine with NICHIA LED delivering up to 567lm at 700mA
- F1 LED engine with CREE COB with super warm 2200K option
- For exterior uplight applications
- Durable all glass bezel, suitable for a wide range of applications
- Range of beam angles including 12°, 19°, 34°, 54°, 15° x 49°
- Optional 20° tilt film angles the light onto the lit surface for a concentrated effect
- Optional glare shield and honeycomb louvre for further glare reduction
- Fixing options include a rebated trimless fixing sleeve, concrete housing and ground tube



Contains our integral moisture guard (anti-wicking barrier), stopping water ingress from going up the cable into the product from incorrect IP-rated connections

Switched, 0-10V, Casambi, DMX, DALI or Mains dimmable drivers available

DIMENSIONS

Dimensions in mm

For fixing dimensions please go to page 3.















WHITE LED ENGINE SPECIFICATION

| Engine | ⊕ E3 | | | F1 | | |
|---------------------------------------|-------------------------------|------------|-------------|-----------------------------------|------------|------------|
| Beam angles | 12°, 19°, 34°, 54°, 15° x 49° | | | 25°, 46°, 65°, 25° x 43° | | |
| LED manufacturer | NICHIA | | | CREE | | |
| Colour temperature* | 2700K, 3000K, 4000K, 5000K | | | 2200K, 2700K, 3000K, 4000K, 5000K | | |
| Current [Rated Output] | 350mA [5W] | 500mA [7W] | 700mA [10W] | 350mA [3.5W] | 500mA [5W] | 700mA [7W] |
| Typical LED Circuit wattage | 4.4W | 6.4W | 9.2W | 3.3W | 5W | 7.2W |
| Delivered lumens (L ₁₀₀)* | 379 | 462 | 567 | 266 | 290 | 375 |
| Delivered Im/Circuit W** | 85 | 72 | 62 | 68 | 58 | 52 |
| Typical LED Source wattage | 4W | 5.8W | 8.3W | 3W | 4.5W | 6.5W |
| Source LED Im | 574 | 740 | 949 | 377 | 497 | 654 |
| Source Im/W | 144 | 128 | 114 | 126 | 110 | 101 |
| Forward voltage (V ₁₀₀) | 11.3V | 11.6V | 11.8V | 8.7V | 9V | 9.3V |
| CRI | 85 | | | 90 | | |
| Colour consistency | 2SCDM | | | 3SCDM | | |
| Peak intensity** | 3,626 cd | | | 1,885 cd | | |
| LOR | 0.60 | | | 0.57 | | |
| TM30 | RF88 RG99 | | | RF93 RG98 | | |
| UGR rating ('downlight' mounted) *** | 10.7 | 11.4 | 12.2 | 8.8 | 9.6 | 10.5 |
| BUG rating ('sideways' mounted) | B0-U3-G2 | | | B0-U3-G2 | | |
| BUG rating ('uplight' mounted) | B0-U3-G0 | | | B0-U3-G0 | | |
| LED lifetime | L90B5 at 90,000hrs | | | L90B5 at 90,000hrs | | |
| Applications | | | | | | |

| Lumen variance by CCT | | |
|-----------------------|--------|--|
| 2700K | +/- 0% | |
| 4000K | +7% | |
| 5000K | +16% | |

MECHANICAL

| Ambient temperature | -20° to 50° (350mA-500mA) or -20° to 45° (700mA) in soil -20° to 50° (350mA-700mA) in concrete | |
|---------------------|---|--|
| Glass | 6mm toughened glass with ceramic screen print | |
| Materials | Black anodised aluminium body with black anodised bezel and glass front | |
| Weight of product | 0.25kg | |
| IP rating | IP67 | |
| IK rating | IK08 (LD141X) | |
| Wiring | In-series constant current wiring (pre-wired with 2-core exterior cable at a length of 250mm) | |

ENVIRONMENTAL

| TM65 | Available on request | | |
|--------------------|---|--|--|
| TM66 | 2.7 | | |
| Repair + Refurbish | This product is included in our Repair and Refurbish scheme. This offers customers the ability to send back products to us for repair or refurbishment to extend their life without having to buy new fittings. | | |







These values are based around a LD141G-E3-500-NB and LD141G-F1-500/MSB/LW30

*See lumen variance table to the right for F1 engine. E3 lumens apply across all colour temperatures

**LED wattage includes losses assocaited with using a 90% efficient driver

***UGR values based on room parameters of 4H 8H, C70 W50 F20

DIMENSIONS AND FIXING ACCESSORIES

Dimensions in mm

/441SG

Rebated trimless fixing sleeve

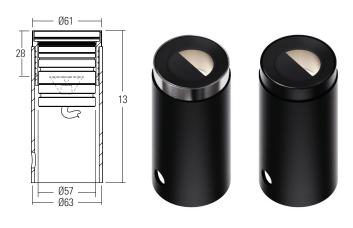
The fitting can be supplied with a rebated fixing sleeve. This is bonded into the mounting surface first. The LD141G is secured into the sleeve by a single '0' ring on the body. When pushed into the sleeve it creates a watertight seal. Mounting surface will require a 14mm rebate depth to allow for flush installation. Weight: 0.18kg. Fixing ring available with a passivated stainless steel or powder coat black finish.*



/441GTG

Trimless ground tube fixing

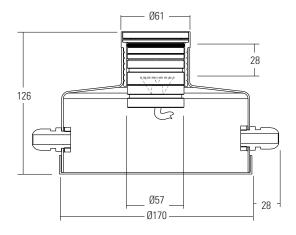
The in-ground tube has been designed for applications where a recessed uplight is required in soil or gravel surfaces. The tube can be buried with the necessary wiring, and then the fitting installed after the landscaping work has been completed. It is supplied with the fixing sleeve bonded into the tube and can be cut down on site. Weight: 1.26kg. Fixing ring available with a passivated stainless steel or powder coat black finish.*



/441NG or /441NG-2

Trimless concrete housing

The aluminium housing is used as a heat sink which keeps the LED fitting cool through the thermal transfer of the heat within the housing to the surrounding concrete. The housings are big enough for IP rated connections to be made inside the housing and a second gland is available for cabling onto the next luminaire. The housing can be buried with the necessary wiring, and then the fitting installed after the landscaping work has been completed. Weight: 2.90kg. Fixing ring available with a passivated stainless steel or powder coat black finish.*





/441NG

Trimless concrete housing with 1x PG9 IP67 gland





Trimless concrete housing with 2x PG9 IP67 gland



*NOTE: Powder coat black paint finish is not suitable for high-traffic areas.







/HT-44-G Trimless Family Hand tool

We supply our Trimless family fittings with a hand tool for easy intallation and removal. Use the /HT-44-G suction cup or a similar suction tool for the removal of the fittings from their fixing options. Please contact your LightGraphix sales representative for more information.





How to use the hand tool



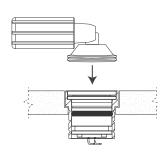
Set tool to a 90° angle.

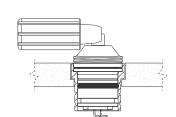


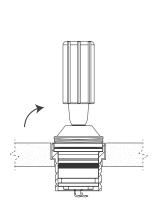
Press tool firmly onto glass.

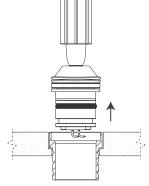


Tilt handle up to create suction, and pull directly upwards to remove fitting. Note: Do not twist during removal as this could damage the bezel.







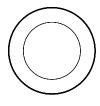


GLARE CONTROL OPTIONS

/NGS No glare shield. Deep recessed optic and matt black anodised optic holder aids in glare reduction.

/GSHM For applications that require low glare. Lumen output is typically reduced by 60% with no light lost on the lit surface.

/HL Helps reduce glare from all angles and can be used with glare shields. The honeycomb louvre cannot be specified with the tilt lens option.

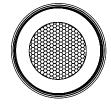


















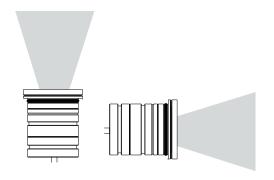




LIGHT OUTPUT OPTIONS

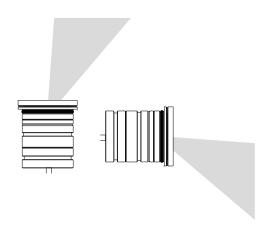
LD141G without tilt lens

Ideal for discreet lighting applications where a throw of light is required.



LD141G with tilt lens

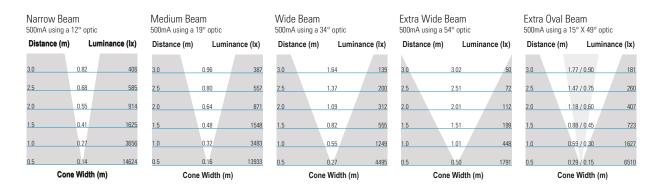
The addition of a 20° tilt film focuses the light towards the lit surface for a more concentrated effect.



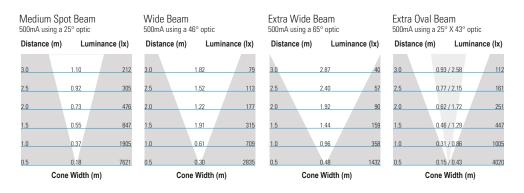
CONE DIAGRAMS

E3 LED Engine

Cone diagrams below are based on a 3000K E3 LED engine run at maximum output 500mA, 7W. Images below represents beam outputs when wall washing a 3m wall, spaced 125mm away from the lit surface. Photometric files (LDT) are included in the design pack which can be downloaded from the LD141 product page on the website.



Cone diagrams below are based on a 3000K F1 LED engine run at maximum output 500mA, 5W. Images below represents beam outputs when wall washing a 3m wall, spaced 125mm away from the lit surface. Photometric files (LDT) are included in the design pack which can be downloaded from the LD141 product page on the website.



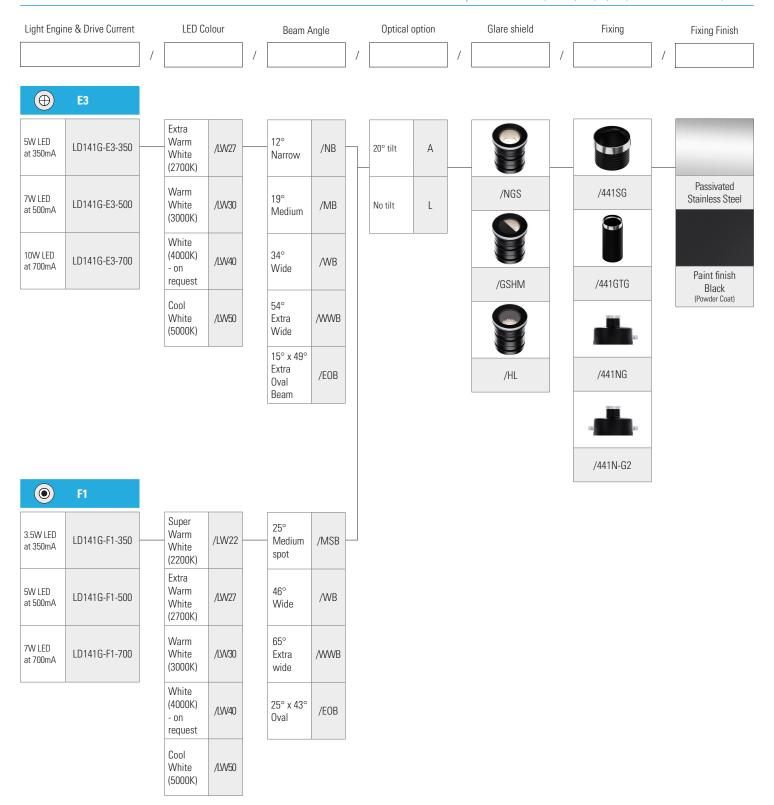






ORDER CODES & OPTIONS

Example: LD141G-E3-500 / LW30 / OB / L / GS / 316 STAINLESS STEEL / 441SG



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

We have a range of dimmable LED drivers including DMX and DALI compatible. Please see the downloads section on our website.



