## 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				F1						
Beam angles	12°, 19°, 34°, 54°,	15° x 49°		25°, 46°, 65°, 25° x 43°						
LED manufacturer	NICHIA			CREE						
Colour temperature*	2700K, 3000K, 4000	OK, 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 <sub>100</sub> )*	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 <sub>100</sub> )	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	i		L90B5 at 90,000hrs						
Applications			-							

Lumen variand	ce by CCT
2200K	-7%
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 associated with using a 90% efficient driver
\*\*\*UGR values based on room parameters of 4H 8H, C70 W50 F20
\*\*\*\*Can only be specified with /441N(-2) concrete housing and used in concrete

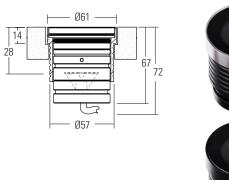
## **DIMENSIONS AND FIXING ACCESSORIES**

Dimensions in mm

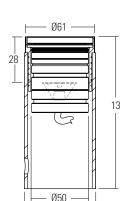
#### /441SG

## 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.\*







Ø63

/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

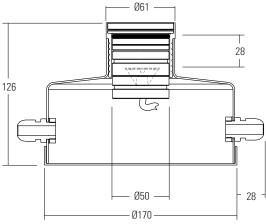
fixing sleeve bonded into the tube and can be cut down on site. Weight: 1.26kg. Fixing ring available with a passivated stainless steel or powder coat black finish.\*



#### /441NG or /441NG-2

## Trimless concrete housing

Must be when specifying the 700mA fitting and installed in concrete. 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-2 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



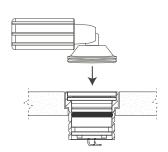
Set tool to a 90° angle.

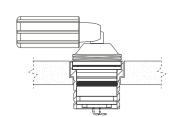


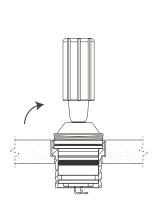
Press tool firmly onto glass.

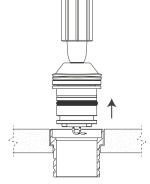


Tilt handle up to create suction, and pull directly upwards to remove fitting. Note: Do not twist during removal as this could damage the bezel.







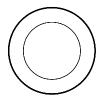


## **GLARE CONTROL OPTIONS**

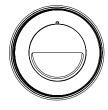
/NGS No glare shield. Deep recessed optic and matt black anodised optic holder aids in glare reduction.

/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.

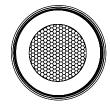
















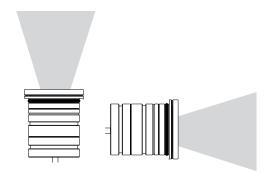




## **LIGHT OUTPUT OPTIONS**

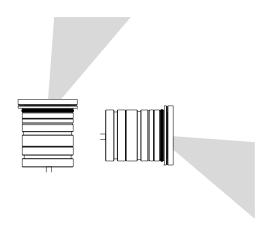
#### LD141G without tilt lens

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



#### LD141G with tilt lens

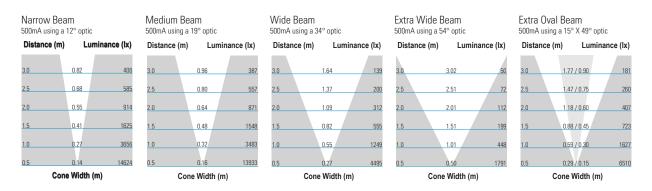
The addition of a 20° tilt film focuses the light towards the lit surface for a more concentrated effect.



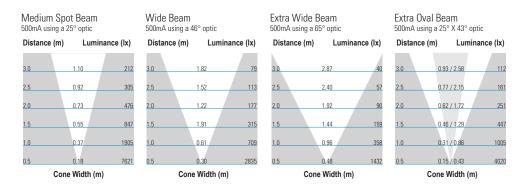
## **CONE DIAGRAMS**

#### 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

Light Engine	e & Drive Current	1	LED C	olour	7	Beam .	Angle	7	_	Optical	option	1	Glare shield	1	Fixing	1	Fixing Finish
		/			/			/	/ <u> </u>			/		/		/	
<b>(</b>	E3																
5W LED at 350mA Ta: -20°C to 50°C	LD141G-E3-350		Extra Warm White (2700K)	/LW27		12° Narrow	/NB			20° tilt	А						
7W LED at 500mA Ta: -20°C to 50°C	LD141G-E3-500		Warm White (3000K)	/LW30		19° Medium	/MB			No tilt	L		/NGS		/441SG		Passivated Stainless Steel
10W LED at 700mA Ta: -20°C to 50°C	LD141G-E3-700 (for use with /441N(-2) only)		White (4000K)	/LW40		34° Wide	/WB		L					-			
Ia20°C to 50°C	744114(2)61119)		request Cool White	/L\V\50	-	54° Extra	/WWB						/GSHM	-	/441GTG		Paint finish Black (Powder Coat)
			(5000K)	, = 1.00		Wide 15° x 49°									p and a second		
						Extra Oval Beam	/EOB						/HL		/441NG		
		ı													/441N-G2		
0	F1																
3.5W LED at 350mA Ta: -20°C to 50°C	LD141G-F1-350		Super Warm White (2200K)	/LW22 -		25° Medium spot	/MSB										
5W LED at 500mA Ta: -20°C to 50°C	LD141G-F1-500		Extra Warm White (2700K)	/LW27		46° Wide	/WB										
7W LED at 700mA Ta: -20°C to 50°C	LD141G-F1-700		Warm White (3000K)	/LW30		65° Extra wide	/WWB										
			White (4000K) - on request	/LW40		25° x 43° Oval	/EOB										
			Cool White (5000K)	/LW50													

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.





