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
- Available in a wide range of colour temperatures from 2200K to 5000K.
- 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

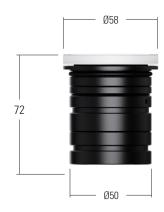
DIMENSIONS

Dimensions in mm

For fixing dimensions please go to page 3.

















WHITE LED ENGINE SPECIFICATION

Engine	⊕ E3	F1			
Beam angles	12°, 19°, 34°, 54°	25°, 46°, 65°, 25° x 43°			
LED manufacturer	NICHIA	CREE			
Colour temperature*	2200K, 2700K, 30	2200K, 2700K, 3000K, 4000			
Current [Rated Output]	350mA [5W]	500mA [7W]	700mA [10W]* * * *	350mA [3.5W]	500
Typical LED Circuit wattage	4.4W	6.4W	9.2W	3.3W	5W
Delivered lumens (L ₁₀₀)*	379	462	567	266	290
Delivered Im/Circuit W**	85	72	62	68	58
Typical LED Source wattage	4W	5.8W	8.3W	3W	4.5
Source LED Im	574	740	949	377	497
Source Im/W	144	128	114	126	110
Forward voltage (V ₁₀₀)	11.3V	11.6V	11.8V	8.7V	9V
CRI	85	90			
Colour consistency	2SDCM		3SDCM		
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
BUG rating ('sideways' mounted)	B0-U3-G2	B0-U3-G2			
BUG rating ('uplight' mounted)	B0-U3-G0	B0-U3-G0			
LED lifetime	L90B5 at 90,000h	L90B5 at 90,000hrs			
Applications					

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F1		
25°, 46°, 65°, 25°	x 43°	
CREE		
2200K, 2700K, 300	OK, 4000K, 5000K	
350mA [3.5W]	500mA [5W]	700mA [7W]
3.3W	5W	7.2W
266	290	375
68	58	52
3W	4.5W	6.5W
377	497	654
126	110	101
8.7V	9V	9.3V
90		
3SDCM		
1,885 cd		
0.57		
RF93 RG98		
8.8	9.6	10.5
B0-U3-G2		
B0-U3-G0		
L90B5 at 90,000hrs	3	

Lumen varian	ce by CCT
2200K	-7%
2700K	+/- 0%
4000K	+7%
5000K	+16%

MECHANICAL

	E3	Soil -20°C to 50° (350mA-500mA) or -20° to 45° (700mA) in soil					
		2011	-20 °C to 50 °(350IIIA-500IIIA) 01 -20 ° to 45 °(700IIIA) III \$011				
		Concrete	-20°C to 50° (350mA-700mA) in concrete				
Ambient temperature	F1	Soil	-20°C to 50°C (350mA-500mA) or -20°C to 45°C (700mA) in soil				
		Concrete	-20°C to 50°C (350mA-700mA) in concrete				
	AUS/NZ	-20°C to 50°C (350mA-500mA) or -20°C to 35°C (700mA)					
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						
Wiring	In-series constant current wiring (pre-wired with 2 core 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

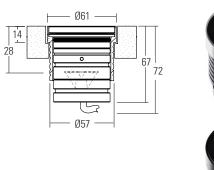
DIMENSIONS AND FIXING ACCESSORIES

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.*



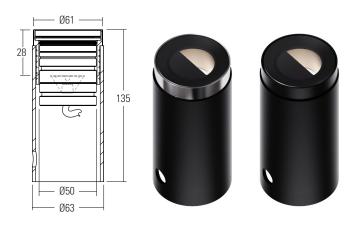




/441GTG

Trimless ground tube fixing

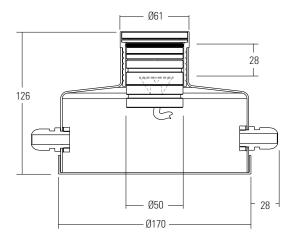
The in-ground tube has been designed for applications where a recessed uplight is required in soil or gravel surfaces. The tube can be buried with the necessary wiring, and then the fitting installed after the landscaping work has been completed. It is supplied with the fixing sleeve bonded into the 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

Trimless concrete housing with 1x PG9 IP67 gland





/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



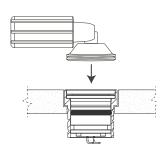
Set tool to a 90° angle.

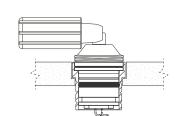


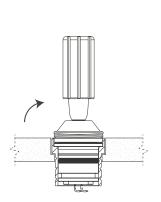
Press tool firmly onto glass.

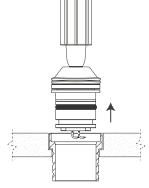


Tilt handle up to create suction, and pull directly upwards to remove fitting. Note: Do not twist during removal as this could damage the bezel.







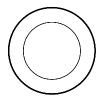


GLARE CONTROL OPTIONS

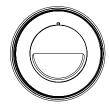
/NGS No glare shield. Deep recessed optic and matt black anodised optic holder aids in glare reduction.

/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.

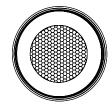




















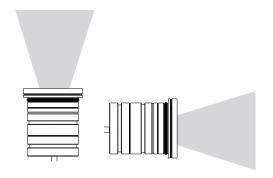




LIGHT OUTPUT OPTIONS

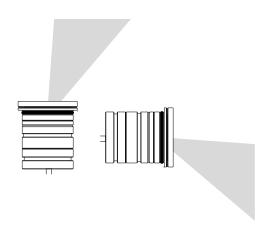
LD141G without tilt lens

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



LD141G with tilt lens

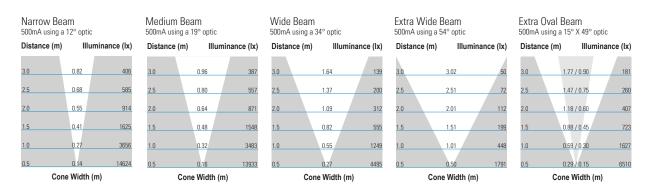
The addition of a 20° tilt film focuses the light towards the lit surface for a more concentrated effect.



CONE DIAGRAMS

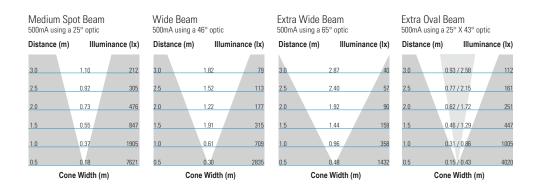
E3 LED Engine

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.



F1 LED Engine

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 Engi	ine & Drive Current	LED Co	lour	Beam A	ingle	Optical	option	Glare shield	l	Finish	Fixing
		/		/		/		/	/		/
(E3										
5W LED at 350mA	LD141G-E3-350* -	Super Warm White (2200K)	/LW22	12° Narrow	/NB	20° tilt	А				
7W LED at 500mA	LD141G-E3-500*	Extra Warm White (2700K)	/LW27	19° Medium	/MB	No tilt	L	/NGS		/441SG	Passivated Stainless Steel
10W LED at 700mA	LD141G-E3-700* (for use with /441N(-2) only)	Warm White (3000K)	/LW30	34° Wide	/WB						
*AUS/NZ: Add - AU - suffix	s to the product code	White (4000K)	/LW40	54°				/GSHM		/441GTG	Paint finish Black (Powder Coat)
e.g. LD141G-AU- (For wall light us	-E3-350 se only)	on request		Extra wide	/WWB						
		Cool White (5000K)	/LW50	15° x 49° Extra Oval Beam	/EOB			/HL		/441NG	
										/441N-G2	
0	F1										-
3.5W LED at 350mA	LD141G-F1-350* -	Super Warm White (2200K)	/LW22	25° — Medium spot	/MSB						
5W LED at 500mA	LD141G-F1-500*	Extra Warm White (2700K)	/LW27	46° Wide	/WB						
7W LED at 700mA	LD141G-F1-700* (for use with /441N(-2) only)	Warm White (3000K)	/LW30	65° Extra wide	/WWB						
e.g. LD141G-AU-F	to the product code F1-350	White (4000K) on request	/LW40	25° x 43° Oval	/EOB						
(For wall light use	e only)	Cool White (5000K)	/LW50	J. C.							

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.







