LD141DR _

DEEP RECESSED COMPACT EXTERIOR RECESSED LED UPLIGHT

























The LD141DR has been designed for exterior applications that require super low glare, with the lens assembly recessed 51mm into the body. Compact in size, it 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 626lm, 12° narrow beam, and both engines are available in a wide range of colour temperatures from 2200K to 5000K. Designed with a repairable light engine, the LD141DR offers a circular, low glare, solution for a wide range of exterior rated applications.



KEY FEATURES

- Deep recessed uplight with optics set back 53mm into the body for super low glare
- High-power E3 engine with NICHIA LED delivering up to 440lm at 500mA
- Available in a wide range of colour temperatures from 2200K to 5000K.
- Range of beam angles including 12°, 19°, 25°
- Wide range of high-quality machined metal and painted bezel finishes available, including: 316 Stainless Steel, Polished & Passivated 316 Stainless Steel, Brass, White (RAL 9016), Black (RAL 9005), Classic Bronze (YM262E), Gunmetal Grev (RAL 7021), Textured Mars Bronze (SX350F), Textured Fir Green (RAL 6009) or any RAL colour
- Optional half-moon glare shield is available
- Fixing options include spring clips or first fix sleeve with O-rings



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 4.











WHITE LED ENGINE SPECIFICATION

Engine	⊕ E3	(a) F1	
Beam angles	12°, 19°	25°	
LED manufacturer	NICHIA	CREE	
Colour temperature*	2200K, 2700K, 3000K, 4000K,	2200K, 2700K, 3000K, 4000K,	
Current [Rated Output]	350mA [5W]	350mA [3.5W]	
Typical LED Circuit wattage	4.4W	3.3W	
Delivered lumens (L ₁₀₀)*	336	208	
Delivered Im/Circuit W**	76	63	
Typical LED Source wattage	4W	5.8W	3W
Source LED Im	574	740	377
Source Im/W	144	128	126
Forward voltage (V ₁₀₀)	11.3V	8.7V	
CRI	85	90	
Colour consistency	2SDCM	3SDCM	
Peak intensity**	4,513 cd	1,810 cd	
LOR	0.59	0.54	
TM30	RF88 RG99	RF93 RG99	
UGR rating ('downlight' mounted) ***	3.2	4.1	4.1
BUG rating ('uplight' mounted)	B0-U3-G0	B0-U3-G0	
LED lifetime	L90B5 at 90,000hrs	L90B5 at 90,000hrs	
Applications			

250								
25°								
CREE								
2200K, 2700K, 3000K, 4000K, 5000K								
350mA [3.5W]	500mA [5W]							
3.3W	5W							
208	268							
63	54							
3W	4.5W							
377	497							
126	110							
8.7V	9V							
90								
3SDCM								
1,810 cd								
0.54								
RF93 RG99								
4.1	5.1							
B0-U3-G0								
L90B5 at 90,000hrs								

This data is based on LD141DRX-E3-500-NB and LD141DRX-F1-500/MSB/LW30

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

MECHANICAL

	F0	Soil	-20°C to 50°C (350mA-500mA) in soil				
	E3	Concrete	-20°C to 50°C (350mA-500mA) in concrete				
Ambient temperature							
	F1	Soil	-20°C to 50°C (350mA-500mA) in soil				
		Concrete	-20°C to 50°C (350mA-500mA) in concrete				
Glass	6mm toughened glass with ceramic screen print						
Materials	Black Anodised aluminium, stainless steel bezel						
Weight of product	0.32kg						
IP rating	IP67						
IK rating	IK08						
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.						







^{*}Lumen output data applies to all E3 colour temperatures, for F1, please see lumen variance table to the right
*Indicates the nominal power for the LED run at that aprticular current and includes losses associated with using an 85% efficient driver
***UGR values based on room parameter of 4H 8H, C70 W50 F20

AVAILABLE FINISHES

Please refer to our finishes guide for full details



316 STAINLESS STEEL

- Marine grade 316 Stainless Steel
- Standard machined finish
- Extremely durable with high corrosion resistance
- Passivation recommended for marine environments to prevent corrosion and build up of brown stains caused by oxidation
- Interior & exterior use



POLISHED & PASSIVATED 316 STAINLESS STEEL

- Marine Grade 316 Stainless Steel
- Pristine mirror like finish
- Recommended for pools and marine applications
- Extremely durable with very high corrosion resistance
- Passivated to extensively prolong resistance to corrosion and brown stains caused by oxidation in marine environments
- Interior & exterior use



FLAMED SOLID BRONZE

- Solid Bronze
- Hand finished Flamed Bronze unique to LightGraphix
- Extremely durable with very high corrosion resistance.
- Please note a natural dark patination layer will form after long term exposure to the elements, the extent of this discolouration will be dependant on its location.
- Interior & exterior use



PAINT FINISH - POWDER COAT

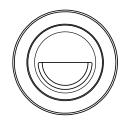
- The powder coated finish is very matt
- Powder coat finishes: White (RAL 9016), Black (RAL 9005), Classic Bronze (YM262E), Gunmetal Grey (RAL 7021) Textured Mars Bronze (SX350F), Textured Fir Green (RAL 6009) or any RAL colour
- Not recommended for high traffic in-ground applications, unless placed to one side where the bezel will not be walked on
- Powder coat paint is generally used on stainless steel or anodised aluminium components
- Interior and exterior use

GLARE CONTROL OPTIONS

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















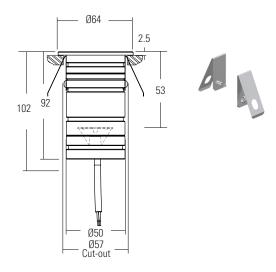


DIMENSIONS AND FIXING ACCESSORIES

Dimensions in mm

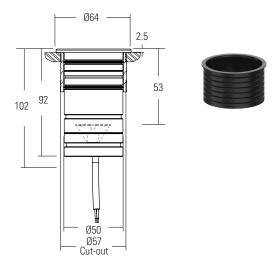
/SC Sping clips

Suitable for use in surfaces with a thickness of 1mm – 25mm. Spring clips provide a simple, single fix mounting method. We recommend that spring clips are only used in interior applications. Weight: 0.05kg



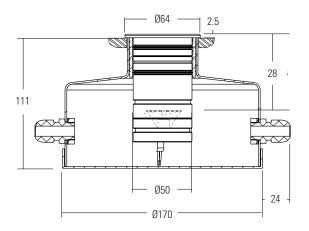
/441S First fix Sleeve

The fitting is supplied as standard with a fixing sleeve; this is bonded into the mounting surface first. The LD151 is secured into the sleeve by 2 '0' rings on the body. When pushed into the sleeve it creates a watertight seal. Weight: 0.18kg



/441N or /441N-2 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. Weight: 2.90kg





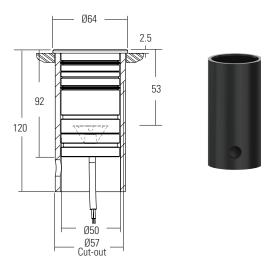
Concrete housing with 1x PG9 IP67 gland



Concrete housing with 2x PG9 IP67 gland

/441GT Ground tube

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









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 LD141DR product page on the website.

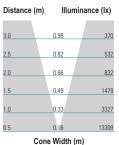




Narrow Beam 500mA using a 12° optic



Medium Beam 500mA using a 19° optic

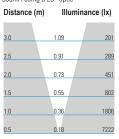


F1 LED Engine

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 LD141DR product page on the website.



Medium Spot Beam 500mA using a 25° optic



Cone Width (m)











ORDER CODES & OPTIONS

Example: LD141DRX-E3-500/LW30/OB/L/GS/316 STAINLESS STEEL/441S

Light Engine & Drive Current		LED	LED Colour		Beam Angle		1	Glare shield		Finish		Fixing
		/		/			/		/		/	
	E3											
3.5W LED at 350mA	LD141DRX-E3-350	Super Warm Wh (2200K)	te /LW22		12° Narrow	/NB						A
7W LED at 500mA	LD141DRX-E3-500	Extra Warm Wh (2700K)	te /LW27		19° Medium	/MB		/NGS		316 Stainless Steel		/SC
		Warm Wh (3000K)	te /LW30							Polished & Passivated		
		(4000K) on request	/LW40					/GSHM		316 Stainless Steel (for marine environments)		/441S
		Cool Whit (5000K)	/LW50							Flamed Solid Bronze		
												/441GT
										Paint Finish White (RAL 9016)		4
O	F1			-						Paint Finish Black		441N
3.5W LED at 350mA	LD141DRX-F1-350	Super Warm Wh (2200K)	te /LW22		25° Medium spot	/MSB				(RAL 9005)		<u>.</u>
5W LED at 500mA	LD141DRX-F1-500	Extra Warm Wh (2700K)	te /LW27							Paint Finish Classic Bronze (YM262E)		/441N-2
		Warm Wh (3000K)	te /LW30									/44111-2
		(4000K) on request	/LW40							Paint Finish Textured Mars Bronze		
		Cool Whit (5000K)	/LW50							Paint Finish		
										Textured Fir Green (RAL 6009)		
										Paint Finish Gunmetal Grey (RAL 7021)		
Drivers												
	Use with 350mA and 500mA 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. Paint Finish RAL											





