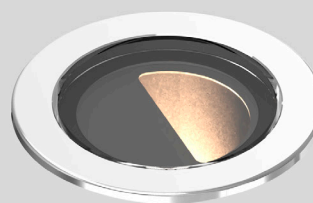


LD141DR

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 Grey (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		F1	
Beam angles	12°, 19°		25°	
LED manufacturer	NICHIA		CREE	
Colour temperature*	2200K, 2700K, 3000K, 4000K, 5000K		2200K, 2700K, 3000K, 4000K, 5000K	
Current [Rated Output]	350mA [5W]	500mA [7W]	350mA [3.5W]	500mA [5W]
Typical LED Circuit wattage	4.4W	6.4W	3.3W	5W
Delivered lumens (L ₁₀₀)*	336	440	208	268
Delivered lm/Circuit W**	76	68	63	54
Typical LED Source wattage	4W	5.8W	3W	4.5W
Source LED lm	574	740	377	497
Source lm/W	144	128	126	110
Forward voltage (V ₁₀₀)	11.3V	11.6V	8.7V	9V
CRI	85	90***	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	5.1
BUG rating ('uplight' mounted)	B0-U3-G0		B0-U3-G0	
LED lifetime	L90B5 at 90,000hrs		L90B5 at 90,000hrs	
Applications	  			

This data is based on LD141DRX-E3-500/830/NB and LD141DRX-F1-500/930/MSB

*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 particular current and includes losses associated with using an 85% efficient driver

***90 CRI available in 2700K/3000K only. Approx. 10% lumen drop will occur compared to 85 CRI variants

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

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

MECHANICAL

Ambient temperature ○ 55°C	E3	Soil/Sleeve	350mA -20°C to 55°C	500mA -20°C to 40°C
		Concrete	-20°C to 55°C	-20°C to 55°C
	F1	Soil/Sleeve	-20°C to 55°C	-20°C to 40°C
		Concrete	-20°C to 55°C	-20°C to 55°C
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.

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

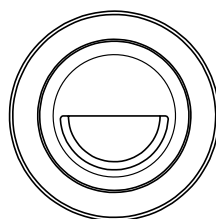
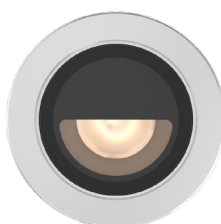


PAINT FINISH - POWDER COAT

- > 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.

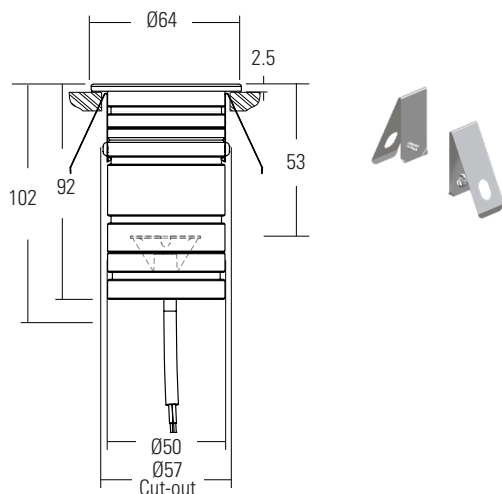


DIMENSIONS AND FIXING ACCESSORIES

Dimensions in mm

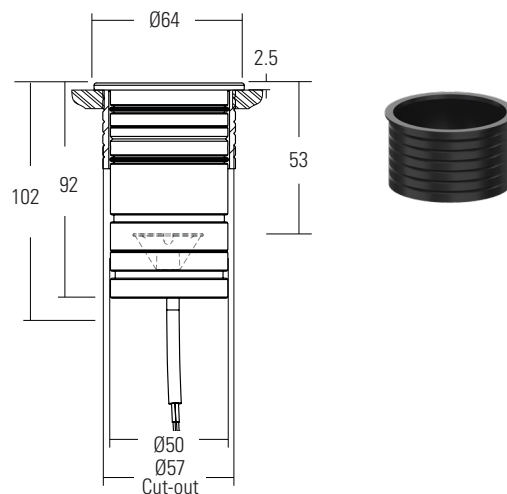
/SC Spring clips

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



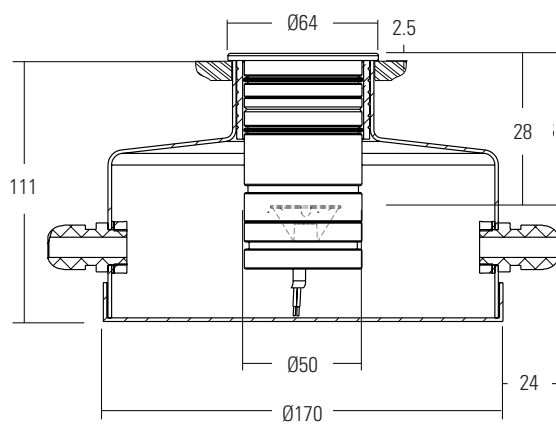
/441S First fix Sleeve

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 'O' rings on the body. When pushed into the sleeve it creates a watertight seal. Weight: 0.18kg



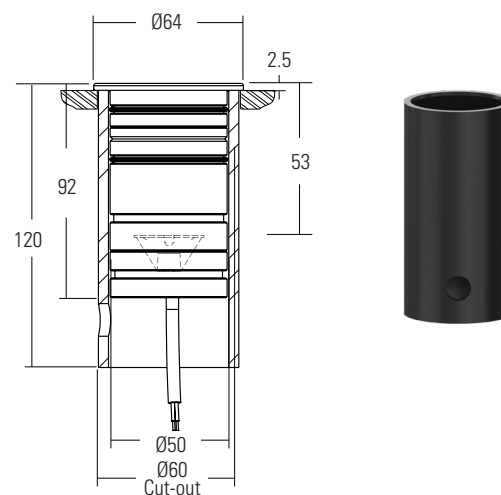
/441N or /441N-2 Concrete housing

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



/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



/441N
Concrete housing with 1x PG9 IP67 gland



/441N-2
Concrete housing with 2x PG9 IP67 gland

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

Distance (m)	Illuminance (lx)	Cone Width (m)
3.0	0.80	505
2.5	0.67	727
2.0	0.53	1136
1.5	0.40	2020
1.0	0.27	4544
0.5	0.13	18176

Medium Beam

500mA using a 19° optic

Distance (m)	Illuminance (lx)	Cone Width (m)
3.0	0.98	370
2.5	0.82	532
2.0	0.66	832
1.5	0.49	1479
1.0	0.33	3327
0.5	0.16	13309

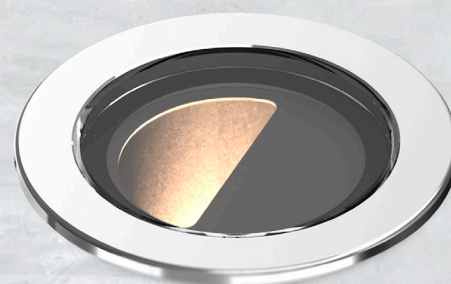
F1 LED Engine

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

Distance (m)	Illuminance (lx)	Cone Width (m)
3.0	1.09	201
2.5	0.91	289
2.0	0.73	451
1.5	0.55	802
1.0	0.36	1806
0.5	0.18	7222



ORDER CODES & OPTIONS

Example: LD141DRX-E3-500/830/OB/L/GS/316 Stainless Steel/441S

Light Engine & Drive Current

LED Colour

Beam Angle

Glare shield

Finish

Fixing

	/		/		/		/	
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Ambient temperature key:  55°C



E3

3.5W LED at 350mA	LD141DRX-E3-350
7W LED at 500mA*	LD141DRX-E3-500

*55°C ambient when placed in
a 485N / 485N-2 concrete can
in concrete.

2200K 85+ CRI	/822
2700K 85+ CRI	/827
3000K 85+ CRI	/830
4000K 85+ CRI on request	/840
5000K 85+ CRI	/850
2700K 90+ CRI	/927
3000K 90+ CRI	/930

12° Narrow	/NB
19° Medium	/MB


/NGS

/GSHM


316 Stainless Steel

Polished & Passivated 316 Stainless Steel (for marine environments)

Flamed Solid Bronze

Paint Finish White (RAL 9016)

Paint Finish Black (RAL 9005)

Paint Finish Classic Bronze (YM262E)

Paint Finish Textured Mars Bronze

Paint Finish Textured Fir Green (RAL 6009)

Paint Finish Gunmetal Grey (RAL 7021)

Paint Finish RAL


/SC

/441S

/441GT

441N

/441N-2



F1

3.5W LED at 350mA	LD141DRX-F1-350
5W LED at 500mA*	LD141DRX-F1-500

*55°C ambient when placed in
a 485N / 485N-2 concrete can
in concrete.

2200K 90+ CRI	/922
2700K 90+ CRI	/927
3000K 90+ CRI	/930
4000K 90+ CRI on request	/940
5000K 90+ CRI	/950

25° Medium spot	/MSB
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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.