Dimensions in mm

LD141X _____ COMPACT EXTERIOR RECESSED LED UPLIGHT ⊕ ⓒ ③ 500 (700) (P67 ⑤ C PARTL) ⑤ YEAR CB R R © MOISTURE

The LD141 has been designed for exterior applications and can be specified as an uplight (LD141X) or wall light (LD141Y). Compact in size, the fittings offer 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 a repairable light engine, glare and fixing accessories, the LD141 offers a circular, low glare, solution for a range of exterior rated applications.



KEY FEATURES

- > High-power E3 engine with NICHIA LED delivering up to 567Im at 700mA
- > F1 LED engine with CREE COB with super warm 2200K option
- > For exterior uplight (LD141X) or wall light (LD141Y) 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
- > Wide range of high-quality machined metal, painted wet spray and powder coated 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, Textured Fir Green (RAL 6009) or any RAL colour
- > Optional glare shield and honeycomb louvre for further glare reduction
- Fixing options include spring clips or /480 first fix sleeve with 0-rings, 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

For fixing dimensions please go to page 4.





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*	2200K, 2700K, 30	00K, 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 (L100)*	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 (V100)	11.3V	11.6V	11.8V	8.7V	9V	9.3V	
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	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 90,000h	rs		L90B5 at 90,000hrs			
Applications			· · · · ·				

These values are based around a LD141X-E3-500-NB and LD141X-F1-500/MSB/LW30

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

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

MECHANICAL

	E3	Soil	-20°C to 50°C (350mA-500mA)				
Ambient temperature		Concrete	-20°C to 50°C (350mA-700mA) in concrete				
	F1	Soil	-20°C to 50°C (350mA-500mA)				
		Concrete	-20°C to 50°C (350mA-700mA) in concrete				
Glass	6mm toughened glass with ceramic screen print						
Materials	Black Anodised aluminium body, stainless steel bezel						
Weight of product	0.25kg						
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	R + R 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.



LightGraphix Creative Lighting Solutions

LD141X

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
- environmentsInterior & 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 dependent 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

LD141X/Y APPLICATION

In an effort to bring a modular approach to our new products, we now offer a further level of configuration to allow the same products for multiple applications. This includes bezel options and optical tilt lenses. These products will feature the suffix of LD141X for in-ground applications and LD141Y for wall/downlight applications referring to the axis of the mounting surface of the luminaire.

LD141X (Uplight)

The LD141X bezel is designed for in-ground applications. The glass is glued from the front to provide the bezel with a flush glass to help prevent the build-up of dirt and dust in the aperture.

LD141Y (Wall light)

The LD141Y bezel is designed for recessed wall applications. The glass is secured from behind with no glue line, allowing for a slightly smaller aperture and a more aesthetically pleasing luminaire. Pair the LD141Y bezel with our asymmetric tilt-lens for a great wall mounted floor washer.







Ø57 Cut-out Ø50



25

Ø64

2.5

71 6

Dimensions in mm

DIMENSIONS AND FIXING ACCESSORIES

/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

Ø64 2.5 27 63 73 Ø50

Ø57 Cut-out



/441S First Fix Sleeve

The fitting is supplied as standard with a fixing sleeve; this is bonded into the mounting surface first. The LD141 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



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

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







/441N Concrete housing with 1x PG9 IP67 gland

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

/441GT Ground tube









LIGHT OUTPUT OPTIONS

LD141X tilt lens

The addition of a 20° tilt film focuses the light towards the lit surface for a more concentrated effect. Ideal for discreet lighting applications where a throw of light is not required.



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.















LightGraphix Creative Lighting Solutions

LD141X

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.



n.48

2835 0.5

Cone Width (m)

1432 Cone Width (m)





7621

0 18

Cone Width (m)

0.5





ORDER CODES & OPTIONS

Example: LD141X-E3-500 / LW30 / EOB / L / GSHM / 316 STAINLESS STEEL/ 441S

Light Engi	ne & Drive Current	LED Co	our	Beam A	ngle	Optical	option	Glare shield	Finish	Fixing
	,	/		/		/		/	/	/
\oplus	E3									
5W LED at 350mA	LD141X-E3-350 -	Super Warm White (2200K)	/LW22 -	12° Narrow	/NB	20° tilt	A	0		
7W LED at 500mA	LD141X-E3-500	Extra Warm White (2700K)	/LW27	19° Medium	/MB	No tilt	L	/NGS	316 Stainless Steel	/SC
10W LED at 700mA	LD141X-E3-700 (for use with /441N(-2) only)	Warm White (3000K)	/LW30	34° Wide	/WB			•	Polished & Passivated 316 Stainless Steel (for marine environments)	
	White (4000K) on request	/LW40	54° Extra Wide	/WWB			/GSHM	Flamed	/441S	
		Cool White (5000K)	/LW50	15° x 49° Extra Oval Beam	/EOB			/HL	Solid Bronze	/441GT (LD141X only)
									Paint Finish White (RAL 9016)	441N
0	FI								Paint Finish Black	(LD141X only)
3.5W LED at 350mA	LD141X-F1-350 -	Super Warm White (2200K)	/LW22 -	25° Medium spot	/MSB				(RAL 9005)	/441N-2 (LD141X only)
5W LED at 500mA	LD141X-F1-500	Extra Warm White (2700K)	/LW27	46° Wide	/WB				Paint Finish Classic Bronze (YM262E)	
7W LED at 700mA	LD141X-F1-700 (for use with /441N(-2) only)	Warm White (3000K)	/LW30	65° Extra wide	/WWB				Paint Finish Textured	
		White (4000K) on request	/LW40	25° x 43° Oval	/EOB				Mars Bronze	
		Cool White (5000K)	/LW50						Paint Finish Textured Fir Green (RAL 6009)	
									Paint Finish Gunmetal Grey (RAL 7021)	
Drivers										
Jse with 35	50mA, 500mA and 700 ange of dimmable LED dri				se see the c	ownloads sectio	n on our web:	site.	Paint Finish RAL	

