

## LD141Y


### COMPACT EXTERIOR RECESSED LED WALL LIGHT



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.



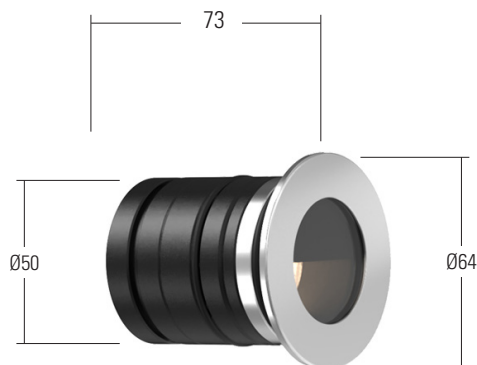
## KEY FEATURES

- > High-power E3 engine with NICHIA LED delivering up to 567lm at 700mA
- > Available in a wide range of colour temperatures from 2200K to 5000K.
- > 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 O-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

*Dimensions in mm*

For fixing dimensions please go to page 4.



## WHITE LED ENGINE SPECIFICATION

Engine	E3			F1		
Beam angles	12°, 19°, 34°, 54°, 15° x 49°			25°, 46°, 65°, 25° x 43°		
LED manufacturer	NICHIA			CREE		
Colour temperature*	2200K, 2700K, 3000K, 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 (L <sub>100</sub> )*	379	462	567	266	290	375
Delivered lm/Circuit W**	85	72	62	68	58	52
Typical LED Source wattage	4W	5.8W	8.3W	3W	4.5W	6.5W
Source LED lm	574	740	949	377	497	654
Source lm/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	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 90,000hrs			L90B5 at 90,000hrs		
Applications	   					

These values are based around a LD141Y-E3-500-NB and LD141Y-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

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

## MECHANICAL

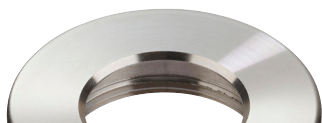
Ambient temperature	E3	Soil	-20°C to 50°C (350mA-500mA) or -20°C to 45°C (700mA) in soil
		Concrete	-20°C to 50°C (350mA-700mA) in concrete
	F1	Soil	-20°C to 50°C (350mA-500mA) or -20°C to 45°C (700mA) in soil
		Concrete	-20°C to 50°C (350mA-700mA) in concrete
	AUS/NZ	-20°C to 50°C (350mA-500mA) or -20°C to 35°C (700mA)	
Glass	6mm toughened glass with ceramic screen print		
Materials	Black Anodised aluminium body, stainless steel bezel		
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	 <p>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.</p>		

## 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

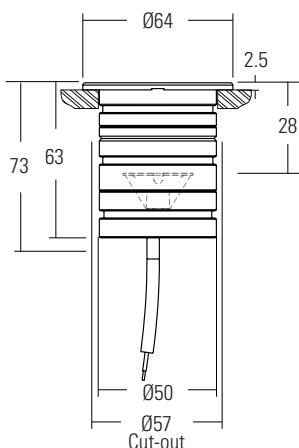
- > The powder coated finish is very matt
- > Powder coat finishes: White (RAL 9016), Black (RAL 9005), Classic Bronze (YM262E), Gunmetal Grey (RAL 7021) Textured Mars Bronze (SX350F), Textured Fir Green (RAL 6009) or any RAL colour
- > Not recommended for high traffic in-ground applications, unless 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

## 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.

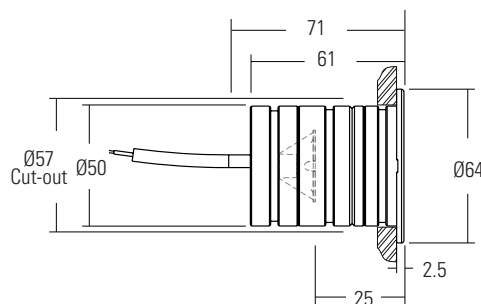
### LD141X (Uplight)

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.

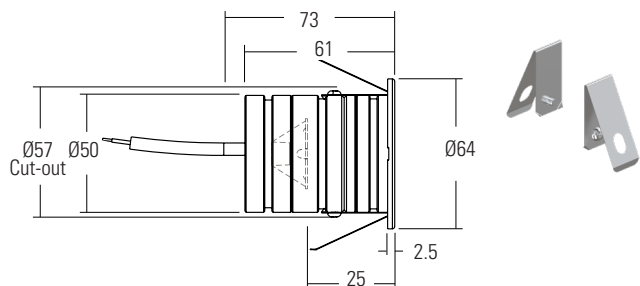


## DIMENSIONS AND FIXING ACCESSORIES

Dimensions in mm

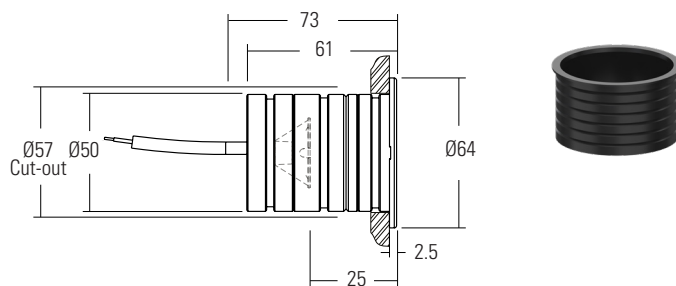
### /SC Spring clips

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

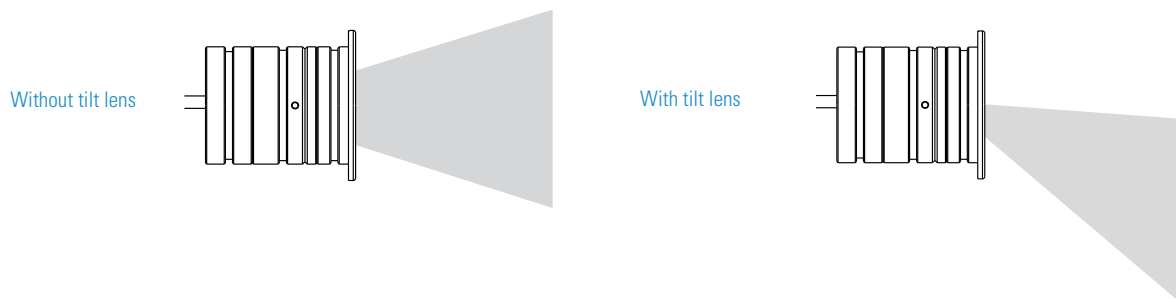
The fitting is supplied as standard with a fixing sleeve; this is bonded into the mounting surface first. The LD141 is secured into the sleeve by 2 'O' rings on the body. When pushed into the sleeve it creates a watertight seal. Weight: 0.18kg



## LIGHT OUTPUT OPTIONS

### LD141Y tilt lens

The addition of a 20° tilt film focuses the light down onto the lit surface for a more concentrated effect. Ideal for narrow stairway or corridor applications.

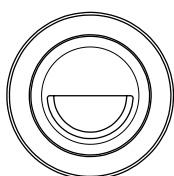
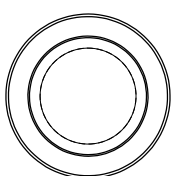
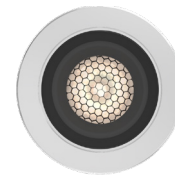
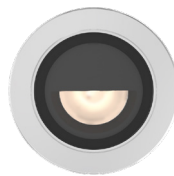
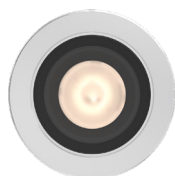


## GLARE CONTROL OPTIONS

**/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.

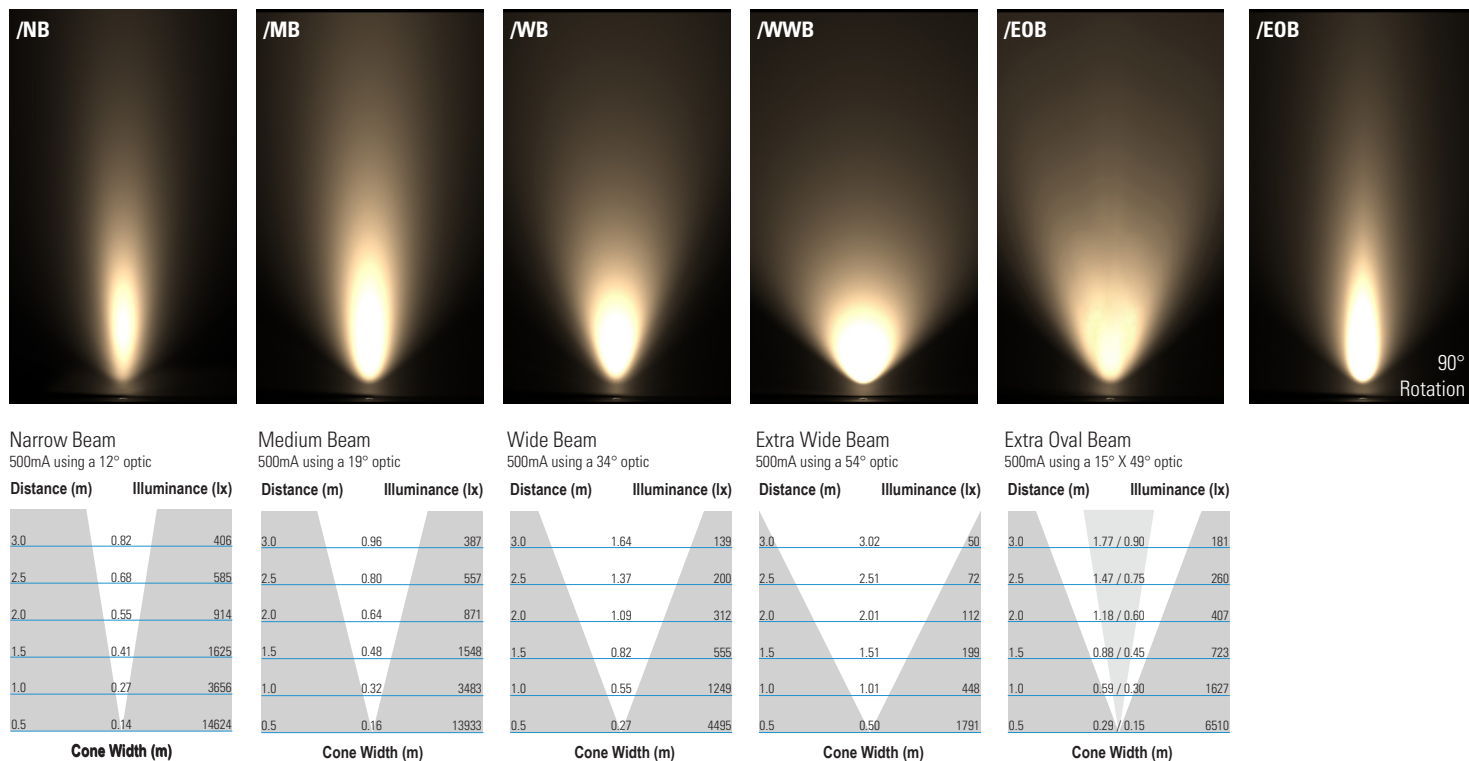
**/HL** Helps reduce glare from all angles and can be used with glare shields. The honeycomb louvre cannot be specified with the tilt lens option.



## CONE DIAGRAMS

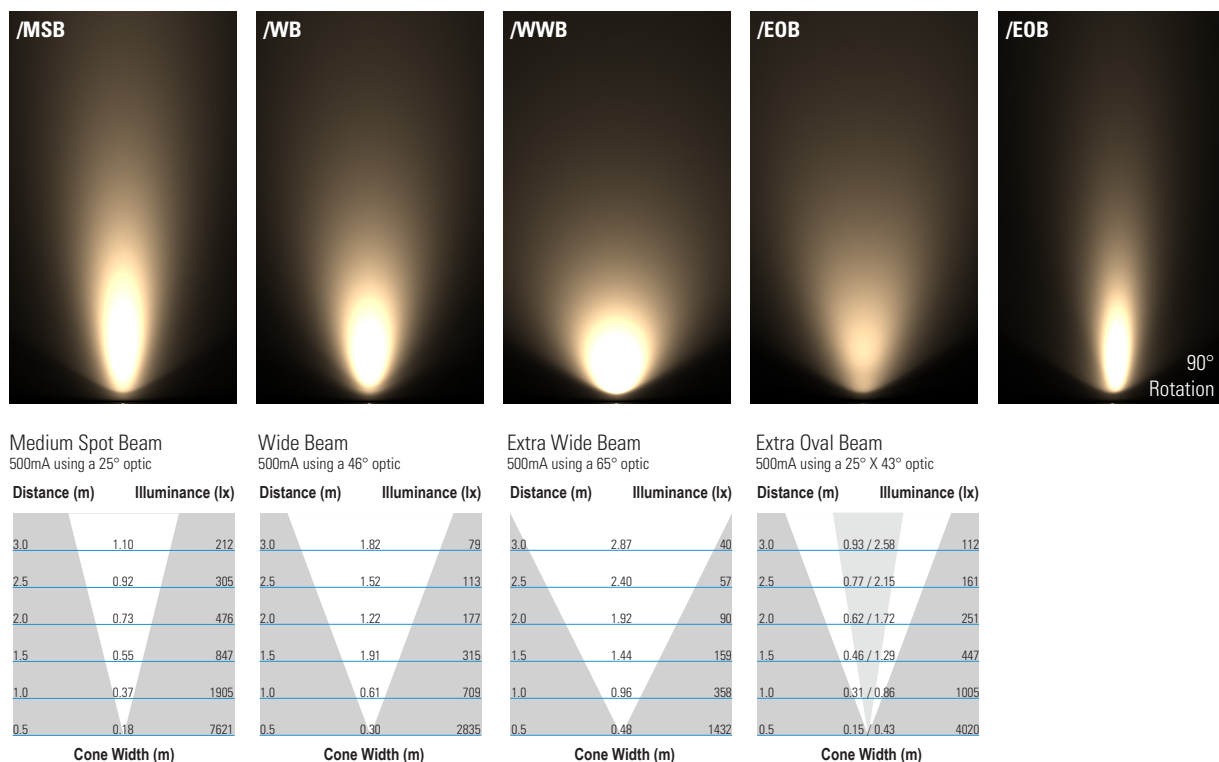
### E3 LED Engine

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: LD141Y-E3-500 / LW30 / EOB / L / GSHM / 316 STAINLESS STEEL / 441S

Light Engine & Drive Current	LED Colour	Beam Angle	Optical option	Glare shield	Finish	Fixing

### E3

5W LED at 350mA	LD141Y-E3-350*	Super Warm White (2200K)	/LW22	12° Narrow	/NB	20° tilt	A			
7W LED at 500mA	LD141Y-E3-500*	Extra Warm White (2700K)	/LW27	19° Medium	/MB	No tilt	L	/NGS	316 Stainless Steel	/SC
10W LED at 700mA	LD141Y-E3-700*	Warm White (3000K)	/LW30	34° Wide	/WB				Polished & Passivated 316 Stainless Steel (for marine environments)	
		White (4000K) on request	/LW40	65° Extra wide	/WWB			/GSHM	Flamed Solid Bronze	/441S
		Cool White (5000K)	/LW50	15° x 49° Extra Oval Beam	/EOB				Paint Finish White (RAL 9016)	
								/HL	Paint Finish Black (RAL 9005)	

**\*AUS/NZ:**  
Add - AU - suffix to the product code  
e.g. LD141Y-AU-E3-350

### F1

3.5W LED at 350mA	LD141Y-F1-350*	Super Warm White (2200K)	/LW22	25° Medium spot	/MSB					
5W LED at 500mA	LD141Y-F1-500*	Extra Warm White (2700K)	/LW27	46° Wide	/WB					
7W LED at 700mA	LD141Y-F1-700*	Warm White (3000K)	/LW30	65° Extra wide	/WWB					
		White (4000K) on request	/LW40	25° x 43° Oval	/EOB					
		Cool White (5000K)	/LW50							

**\*AUS/NZ:**  
Add - AU - suffix to the product code  
e.g. LD141Y-AU-F1-350

Drivers
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.