LD44Y

LOW GLARE MINIATURE RECESSED
INTERIOR & EXTERIOR LED WALL LIGHT







The LD44 has been designed for interior & exterior applications and can be specified as an uplight (LD44X) or wall light (LD44Y). Developed around our LD42 and LD43 range, it features a 2-core sheathed cable for exterior installations, delivering up to 180 lumens with a drive current option of 700mA. Optics are recessed 10mm for low glare and glare shield options allow aperture reductions of 45% or 70%. An optional 20° Tilt lens can be used to focus the light onto the lit surface for a more concentrated effect. With a replaceable light engine and anti-wicking barrier, the LD44 offers a robust, miniature solution for exterior rated uplighting and wall light applications in harsh environments.



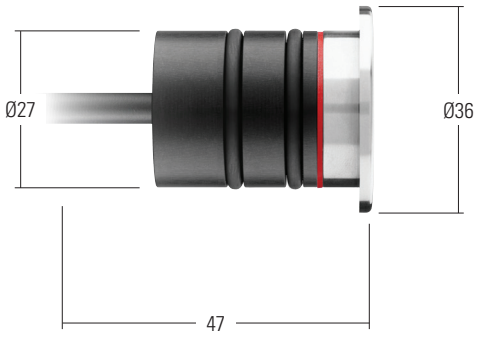
KEY FEATURES

- High-power C1 engine with NICHIA LED delivering up to 180lm at 700mA
- For interior and exterior uplight (LD44X) or wall light (LD44Y) applications, with a 2-core sheathed cable for exterior installations
- Minimal body depth and bezel diameter with optics recessed 10mm for low glare
- Range of beam angles including 12°, 31°, 48°, 12° x 36°
- Available with a 45% or 70% glare shield accessory
- Optional 20° Tilt lens angles the light onto the lit surface for a more concentrated effect
- Features an RLE (Replaceable Light Engine) engine with Moisutre Guard to increase protection against moisture ingress
- Wide range of high-quality machined metal, painted wet spray finishes available, including: 316 Stainless Steel, Polished & Passivated 316 Stainless Steel, Brass, Flamed Solid Bronze
- Contains our integral moisture guard (anti-wicking barrier), stopping water ingress from going up the cable into the product from incorrect IP-rated connections
- Fixing options include spring clips or /480 first fix sleeve with O-rings
- Switched, 0-10V, Casambi, DMX, DALI or Mains dimmable drivers available

DIMENSIONS

Dimensions in mm

For fixings and dimensions please go to page 4.





WHITE LED ENGINE SPECIFICATION

Engine	C1		
Beam angles	12°, 31°, 48°, 12° x 36°		
LED manufacturer	NICHIA		
Colour temperature	2200K, 2700K, 3000K, 4000K, 5000K		
Current [Rated output]	350mA [1.2W]	500mA [1.7]	700mA [2.4W]
Typical LED Circuit wattage	1.1W	1.6W	2.3W
Delivered lumens (L_{100})*	103	134	180
Delivered lm/Circuit W**	95	83	77
Typical LED Source wattage	1W	1.5W	2.1W
Source LED Lm	133	187	206
Source lm/W	136	129	98
Forward voltage (V_{100})	2.8V	2.9V	3V
CRI	93		
Colour consistency	2 SDCM		
Peak intensity	1,057 cd		
LOR	0.87		
TM30	RF93 | RG100		
UGR***	2.9	3.6	4.9
BUG rating (Sideways mounted)	B0-U3-G1		
BUG rating (Uplight mounted)	B0-U3-G0		
LED lifetime	L90B5 at 90,000hrs		
Applications			

This data is based on LD44Y-C1-700/930/NB
*Lumen output data applies to all colour temperatures
**LED wattage includes losses assocaited with using a 90% efficient driver
***UGR values based on room parameters of 4H 8H, C70 W50 F20

MECHANICAL

		350mA	500mA	700mA
Ambient temperature ○ 55°C	C1	-20°C to 55°C	-20°C to 55°C	-20°C to 45°C
	AUS/NZ	-20°C to 25°C	-20°C to 25°C	
Glass	3.3mm thick borosilicate glass with black ceramic screen print			
Materials	Hard anodised aluminium body, machined 316 stainless steel bezel			
Weight of product	0.078kg			
IP rating	IP68 (Not for permanent submersion)			
Wiring	In-series constant current wiring (pre-wired with 2 x core cable at a length of 250mm)			

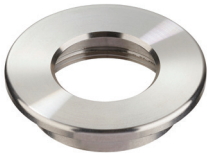
ENVIRONMENTAL

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.
RLE (REPLACEABLE LIGHT ENGINE)	RLE 1  Visit page 5 for replacement parts

AVAILABLE FINISHES

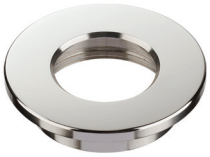
Please refer to our finishes guide for full details

MACHINED & PLATED FINISHES



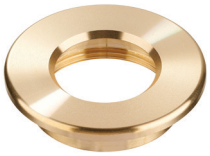
316 STAINLESS STEEL
/SS

- Marine grade 316 Steel
- Standard machined finish
- Extremely durable with very 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
/PPSS

- Marine Grade 316 Steel
- Mirror like finish
- 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



MACHINED BRASS
/BS

- Solid CZ121 Brass
- Standard machined finish
- Corrosion resistance rated fair to excellent
- Please note a natural green/brown 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



FLAMED SOLID BRONZE
/FBZ

- 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

POWDER COAT PAINT FINISHES

Our paint finishes are suitable for interior, exterior, and high-saline environments. All our painted finishes are applied in-house, allowing us to maintain complete control over quality and consistency. This also means we can easily accommodate any RAL colour specification in addition to our standard colour range, offering you full flexibility for custom projects.



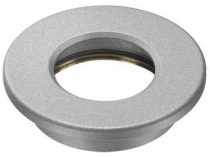
MATT BLACK
/PCBLK



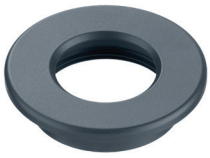
MATT WHITE
/PCWHT



ANTIQUE WHITE
/PCAWHT



MATT SILVER
/PCMS



ANTHRACITE GREY
/PCANTGREY



GUNMETAL GREY
/PCGMG



ANTIQUE BRONZE
/PCANTBRZ



EARTH BRONZE
/PCEBRZ



DESERT BRONZE
/PCDBRZ



TEXTURED MARS BRONZE
/PCMARS



TEXTURED FIR GREEN
/PCTFG



WHITE STONE
/PCTWS



CUSTOM RAL
/CUSTFINISH

LD44 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 LD44X for in-ground applications and LD44Y for wall/downlight applications referring to the axis of the mounting surface of the luminaire.

LD44X (Uplight)
The LD44X 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.



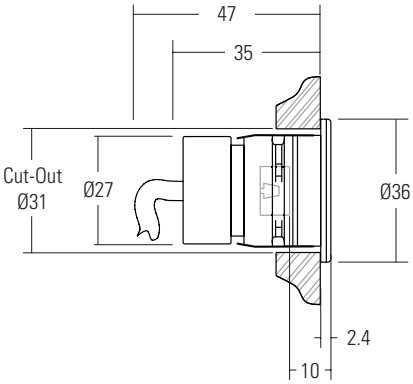
LD44Y (Wall light)
The LD44Y bezel is designed for recessed wall applications. The glass is secured from behind with no glue line, allowing for a slightly smaller aperture and a more aesthetically pleasing luminaire. Pair the LD44Y bezel with our asymmetric Tilt-lens for a great wall mounted floor washer.



DIMENSIONS AND FIXING ACCESSORIES

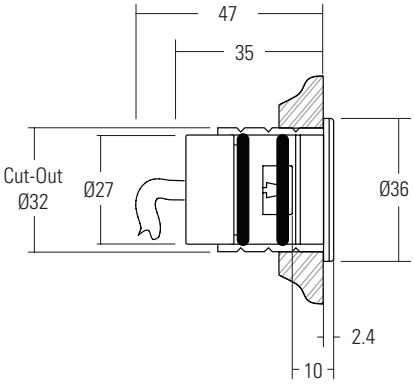
Dimensions in mm

/SC Spring clip
Provides a simple single-fix mounting method that is most suited to interior wall and floor applications.





/480 O-rings and sleeve
Robust, watertight method of fixing for in-ground exterior applications.





GLARE CONTROL AND LIGHT OUTPUT OPTIONS

LD44
Circular aperture with lens and LED assembly recessed into the body by 10mm.



LD44 with GS44-45
Addition of a half-moon glare shield in front of the lens to further reduce glare. Please note that the Oval beam cannot be used with GS44-45.



LD44 with Tilt lens and GS44-45
Features a half-moon glare shield, but with the addition of an integral 20° Tilt lens which angles the light towards the lit surface. Please note that the Oval beam cannot be used with the Tilt lens and GS44-45.



LD44 with GS44-70
Features a 70% glare shield for applications that require minimal output and glare. Please note that the Oval beam cannot be used with the GS44-70.



LD44 with Tilt lens and GS44-70
Features a 70% glare shield, but with the addition of an integral 20° Tilt lens which angles the light towards the lit surface. Please note this option is only available in a Narrow beam.



RLE - REPLACEABLE LIGHT ENGINES

RLE

What is RLE

On the surface, RLE is LightGraphix's answer to the Circular economy question that is facing many industries at the moment. However for us, RLE is an ethos; a commitment that LightGraphix will factor in the principles of good circular design into all of its future product design. It allows us to offer luminaires that contain replaceable, energy-efficient light engines. This gives customers the ability to refurbish existing lighting installations rather have having to replace the entire luminaire. This will fall into two types of refurbishments: replaceable, and repairable.



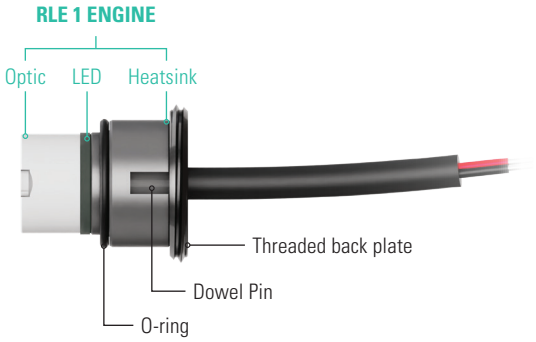
RLE1

RLE Engines

Repairs can be conducted on any site worldwide, or in our factory, with a small tool. Simply swap out the singular modular LED insert, and replace it with another, along with a new optic, which are both supplied by us. The warranty provided with the product with vary based on who is performing RLE repairs. There are three types of RLE engine, categorised based on the size of the product. RLE1 is the smallest, with RLE3 being the largest.

LD44Y RLE REPLACEMENT PARTS

Please use the configurator below to specify your replacement engine and optic. If you are unsure of your original specifications, please check the label on your LightGraphix fitting, or get in touch with our sales team. Installation sheets will be supplied with the new components.



RLE Engine		LED Colour		Beam Angle	
RLE 1 ENGINE	RLE1/	2200K 93+ CRI	/922	Narrow beam 16mm optic	RLE/OP-16/NB
		2700K 93+ CRI	/927	Medium beam 16mm optic	RLE/OP-16/MB
		3000K 93+ CRI	/930	Wide beam 16mm optic	RLE/OP-16/WB
		4000K 93+ CRI on request	/940	Oval beam 16mm optic	RLE/OP-16/OB
		5000K 93+ CRI	/950		

Accessories	
Dowel pin for Oval beam orientation	RLE1/OP-16/DP
O-ring	RLE/OR1
Threaded back plate	RLE/TBP

ORDER CODES & OPTIONS - LD44Y

Example: LD44Y-C1-700/930/OB/L/NGS/316 Stainless Steel/SC

Light engine & drive current / LED colour / Beam angle / Optical option / Glare shield / Finish / Fixing

Ambient temperature key: 55°C

C1

55°C Ta	1.2W LED at 350mA*	LD44Y-C1-350
55°C Ta	1.7W LED at 500mA*	LD44Y-C1-500
	2.4W LED at 700mA	LD44Y-C1-700

***AUS/NZ:**
Add - AU - suffix to the product code e.g. LD44Y-AU-C1-350

2200K 93+ CRI	/922
2700K 93+ CRI	/927
3000K 93+ CRI	/930
4000K 93+ CRI on request	/940
5000K 93+ CRI	/950

12° Narrow	/NB
31° Medium	/MB
48° Wide	/WB
12° x 36° Oval	/OB

20° Tilt	A
No tilt	L


NGS


GS44-45
(not applicable with Oval beam)


GS44-70
(Not applicable with Oval beam. When using Tilt lens, only Narrow beam can be specified)


/480


/SC

Machine Finish

- 316 Stainless Steel
- Polished & Passivated Stainless Steel
- Flamed Bronze
- Brass

Powder Coat

- Matt Black
- Matt White
- Antique White
- Matt Silver
- Anthracite Grey
- Gun Metal Grey
- Antique Bronze
- Earth Bronze
- Desert Bronze
- Textured Mars Bronze
- Textured Fir Green
- White Stone
- Any RAL

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.