

LD44G

TRIMLESS LOW GLARE MINIATURE RECESSED INTERIOR/EXTERIOR LED UPLIGHT/WALL LIGHT



The LD44G has been designed for interior & exterior applications, featuring a high-quality, seamless glass top to blend perfectly into its surroundings. Developed around our LD42, LD43 and LD44 fittings, 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 film 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 LD44G 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
- > Durable all glass bezel, suitable for a wide range of applications
- > Range of beam angles including 12°, 31°, 48°, 12° x 36°
- > Available with a 45% or 70% glare shield accessory
- > Optional 20° tilt film angles the light onto the lit surface for a more concentrated effect
- > Features an RLE (Replaceable Light Engine) engine with Moisture Guard to increase protection against moisture ingress
- >  Contains our integral moisture guard (anti-wicking barrier), stopping water ingress from going up the cable into the product from incorrect IP-rated connections
- > Hidden fixing options include a rebate trimless fixing sleeve, minimalist trimmed sleeve, or plaster-in sleeve
- > Switched, 0-10V, Casambi, DMX, DALI or Mains dimmable drivers available

DIMENSIONS

Dimensions in mm

For fixings and dimensions please go to page 3.



WHITE LED ENGINE SPECIFICATION

Engine			
Beam angles	12°, 31°, 48°, 12° x 36°		
LED manufacturer	NICHIA		
Colour temperature	2200K, 2700K, 3000K, 4000K, 5000K		
Current	350mA [1.2W]	500mA [1.7W]	700mA [2.4W]
LED power (Max)**	1.1W	1.5W	2.1W
Delivered lumens (L ₁₀₀)*	103	134	180
Delivered lm/Circuit W	95	83	77
Lumens per circuit watt	94	89	86
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	3.0V
CRI (Typ)	93		
Colour consistency	2 SCDM		
Peak intensity	1,057 cd		
LOR	0.87		
TM30	RF93 RG100		
UGR rating ('downlight' mounted) ***	2.9	3.6	4.9
BUG rating ('sideways' mounted)	B0-U3-G1		
BUG rating ('uplight' mounted)	B0-U3-G0		
LED lifetime	L90B5 @ 90,000hrs		
Applications			

This data is based on LD44G-C1-700/930/NB

*Lumen output data applies to all colour temperatures

**Indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% 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	
Materials	Black anodised aluminium body with black anodised bezel and glass front			
IP rating	IP68 (Not for permanent submersion)			
IK rating	IK06			
Wiring	In-series constant current wiring (pre-wired with 2 x core cable at a length of 250mm)			

ENVIRONMENTAL

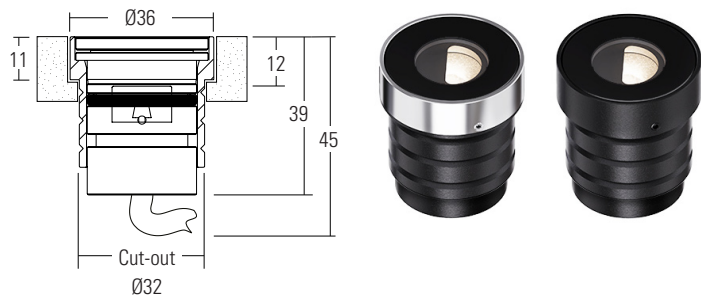
TM65	Available on request		
TM66	2.7		
Repair + Refurbish	 This product is included in our Repair and Refurbish scheme. This offers customers the ability to send back products to us for repair or refurbishment to extend their life without having to buy new fittings.		
RLE (REPLACEABLE LIGHT ENGINE)	 Visit page 6 for replacement parts		

DIMENSIONS AND FIXING ACCESSORIES

Dimensions in mm

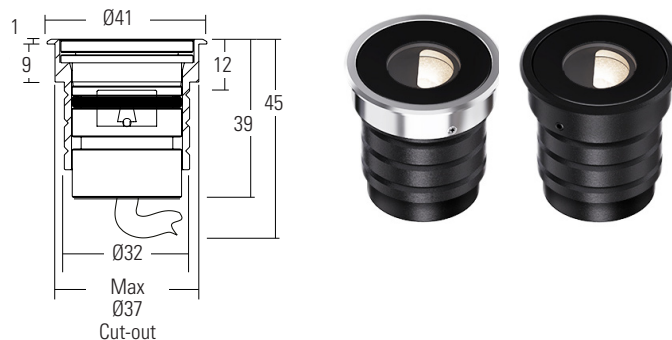
/480SG Rebate trimless fixing sleeve and O-Ring

A robust and water tight method of fixing, for in ground applications. Mounting surface will require an 11mm rebate to allow for flush installation. Fixing ring available with a passivated stainless steel or powder coat black finish.*



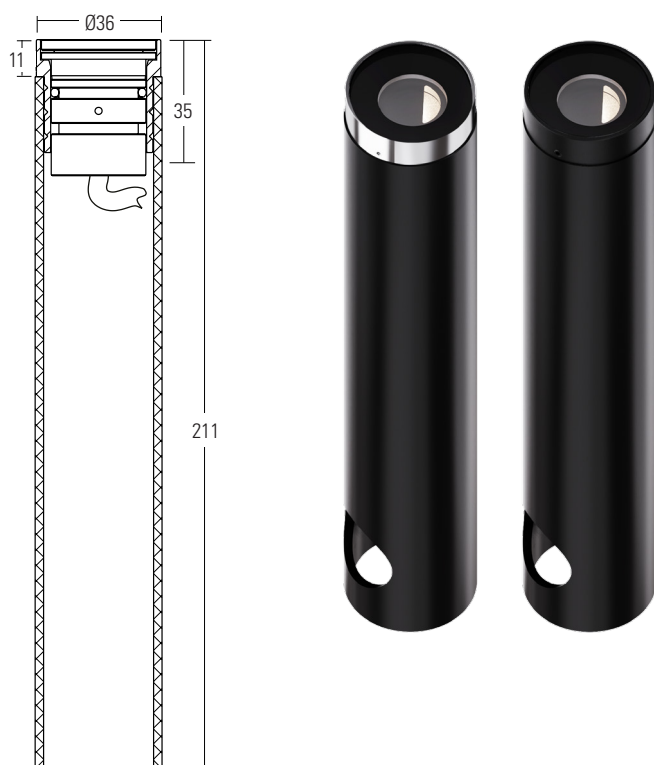
/480TRG Minimalist Trimmed Sleeve and O-Ring

A robust and water tight method of fixing, with trimmed edge bezel for easy installation due to no rebate being required. Fixing ring available with a passivated stainless steel or powder coat black finish.*



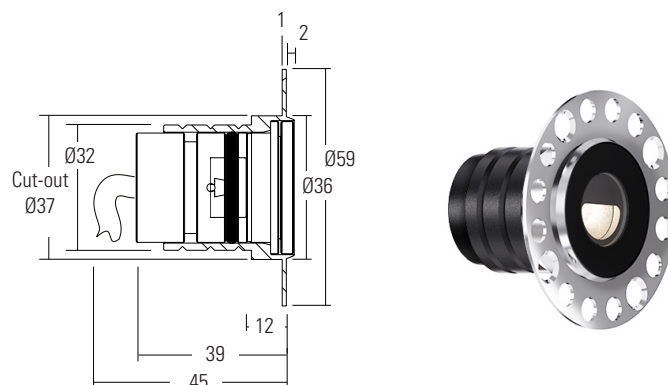
/480GTG Ground tube

The in-ground tube has been designed for applications where a recessed uplighter is required in soil or gravel terrain, and can also be used in concrete. 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. Fixing ring available with a passivated stainless steel or powder coat black finish.*



/480PSG Plaster in Sleeve

For plaster in applications such as walls or ceilings.



*NOTE: Powder coat black paint finish is not suitable for high-traffic areas.



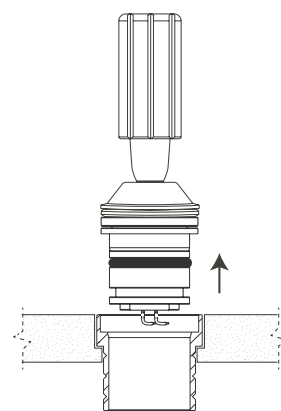
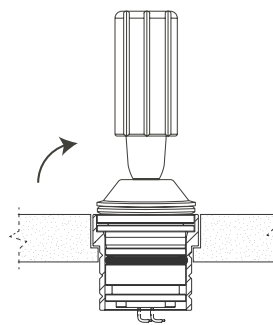
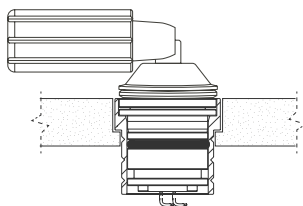
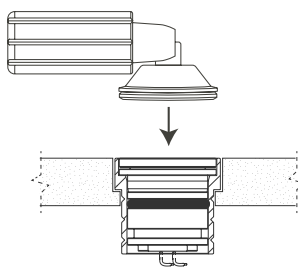
/HT-44-G Trimless Family Hand tool

We supply our Trimless family fittings with a hand tool for easy installation and removal. Use the /HT-44-G suction cup or a similar suction tool for the removal of the fittings from their fixing options. Please contact your LightGraphix sales representative for more information.



How to use the hand tool

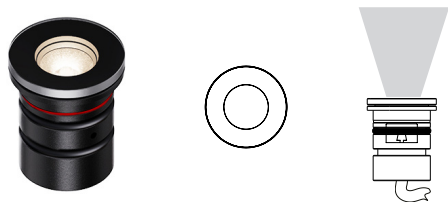
- 1 Set tool to a 90° angle.
- 2 Press tool firmly onto glass.
- 3 Tilt handle up to create suction, and pull directly upwards to remove fitting.
Note: Do not twist during removal as this could damage the bezel.



GLARE CONTROL AND LIGHT OUTPUT OPTIONS

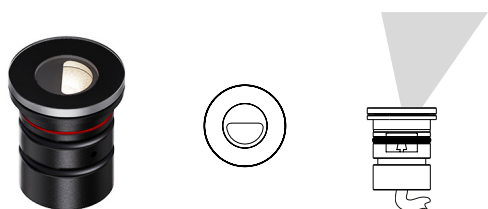
LD44G

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



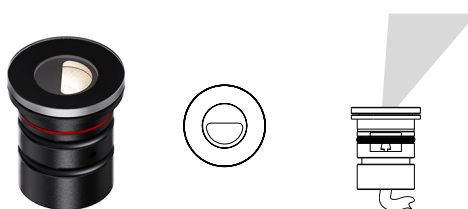
LD44G with GS45

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 GS45.



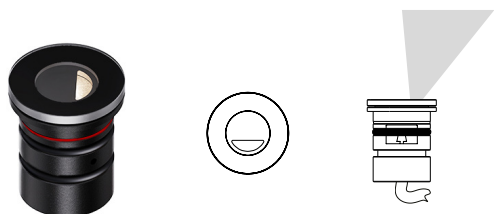
LD44G with Tilt lens and GS45*

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 a Tilt lens and GS45.



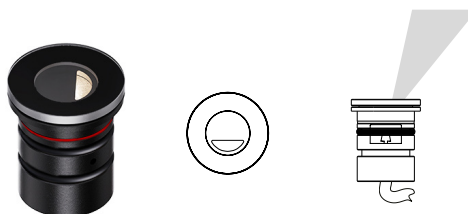
LD44G with GS70

Features a 70% glare shield for applications that require minimal output and glare. Please note that the Oval beam cannot be used with the GS70.



LD44G with Tilt lens and GS70*

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.



***NOTE:** LightGraphix recommends always adding a glare shield when the Tilt lens is used.

RLE - REPLACEABLE LIGHT ENGINES



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 than having to replace the entire luminaire. This will fall into two types of refurbishments: replaceable, and repairable.

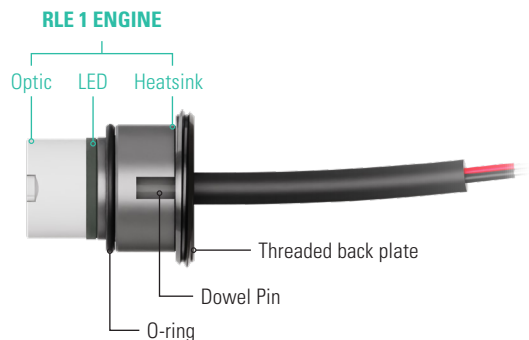
RLE Engines

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 varies 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.



LD44G 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		Accessories	
RLE 1 ENGINE	RLE1/	2200K 93+ CRI	/922	Narrow beam 16mm optic	RLE/OP-16/NB	Dowel pin for Oval beam orientation	RLE1/OP-16/DP
		2700K 93+ CRI	/927	Medium beam 16mm optic	RLE/OP-16/MB	O-ring	RLE/OR1
		3000K 93+ CRI	/930	Wide beam 16mm optic	RLE/OP-16/WB	Threaded back plate	RLE/TBP
		4000K 93+ CRI on request	/940	Oval beam 16mm optic	RLE/OP-16/OB		
		5000K 93+ CRI	/950				

ORDER CODES & OPTIONS

Example: LD44G-C1-500/930/MB/A/GS44-45/480SG/Paint finish black

Light Engine & Drive Current

LED Colour

Beam Angle

Optical option

Glare shield

Fixing

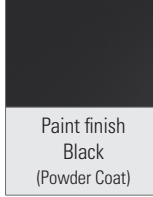
Fixing Finish*

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Ambient temperature key: ● 55°C

*Not available on 480PSG

○ C1

● 55°C _{Ta}	1.2W LED at 350mA*	LD44G-C1-350	2200K 93+ CRI	/922	12° Narrow	/NB	20° Tilt	A			
	1.7W LED at 500mA*	LD44G-C1-500	2700K 93+ CRI	/927	31° Medium	/MB	No tilt	L	/NGS	/480SG	
● 55°C _{Ta}	2.4W LED at 700mA	LD44G-C1-700	3000K 93+ CRI	/930	48° Wide	/WB					
			4000K 93+ CRI on request	/940	12° x 36° Oval	/OB			/GS45 (not applicable with Oval beam)	/480TRG	
			5000K 93+ CRI	/950							
									/GS70 Not applicable with Oval beam. When using Tilt lens, only Narrow beam can be specified)		

***AUS/NZ:**
Add - AU - suffix to the product code e.g.
LD44G-AU-C1-350
(For wall light use only)

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.