

Design: BDP Lighting Design Project: Liverpool One Product: LD64 Special

LD64

MINIATURE IN GROUND LED PATH MARKER

○ | 350 mA | 500 mA | IP67 | 55°C Ta | PART L Display | 5 YEAR Warranty

CB | RLE | R+R | MOISTURE GUARD

The LD64 is a miniature in-ground LED surface washer that uses a specially designed reflector to produce a 120° angle of illumination. It is manufactured from a single billet of 316 stainless steel making it extremely robust. It is useful for a wide range of applications including steps and pathways and can be used on interior or exterior walls to create interesting effects. With no visible fixings, it is secured either by O-rings and a first fix sleeve or a ground tube.

KEY FEATURES

- Manufactured from a single billet of 316 stainless steel
- No visible fixings
- Minimal aesthetic
- LD64 produces a single 120° angle of illumination with an output of up to 33lm
- Integral anti wicking barrier increases protection against moisture ingress due to incorrect IP rated cable connections
- Fixing using O-rings and a first fix sleeve
- Rated IP67 for exterior or interior pathways, staircases and walls
- Contains our integral moisture guard (anti-wicking barrier), stopping water ingress from going up the cable into the product from incorrect IP-rated connections
- Available with Switch, 0-10V, DMX, Dali or Mains dimmable drivers

DIMENSIONS

For fixings and dimensions please go to page 4.



WHITE LED ENGINE SPECIFICATION

Engine	C1	
Beam angles	120°	
LED manufacturer	NICHIA	
Colour temperature	2200K, 2700K, 3000K, 4000K, 5000K	
Current [Rated Output]	350mA [1.2W]	500mA [1.7W]
Typical LED Circuit wattage	1.1W	1.6W
Delivered lumens (L_{100})*	19	33
Delivered lm/Circuit W**	18	20
Typical LED Source wattage	1W	1.5W
Source LED lm	133	187
Source lm/W	136	129
Forward voltage (V_{100})	2.8V	2.9V
CRI	93	
Colour consistency	2 SCDM	
Peak intensity	22 cd	
LOR	0.17	
TM30	RF93 | RG101	
UGR rating ('downlight' mounted)	12.7	14.6
BUG rating ('uplight' mounted)	B0-U2-G0	
LED lifetime	L90B5 at 90,000hrs	
Applications		

This data is based on an LD64-C1-500/930
*LED wattage includes losses associated with using an 90% efficient driver
**Lumen output data applies to all colour temperatures.

MECHANICAL

	350mA	500mA
Ambient temperature ○ 55°C	-20°C to 55°C	-20°C to 50°C
Materials	Machine finish 316 stainless steel	
IP rating	IP67	
IK rating	IK10	
Wiring*	Comes pre-wired with 2 core 100mm lead, can be specified with up to 10m at extra cost	

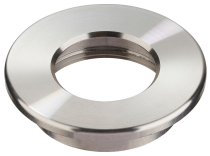
ENVIRONMENTAL

TM65	Available on request
TM66	2.6
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 4 for replacement parts

AVAILABLE FINISHES

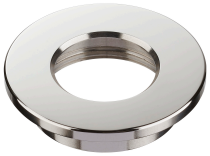
Please refer to our finishes guide for full details

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



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

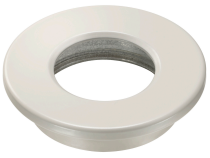
Our paint finishes are suitable for interior, exterior, and high-saline environments. All our painted finishes are applied in-house, allowing us to maintain complete control over quality and consistency. This also means we can easily accommodate any RAL colour specification in addition to our standard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



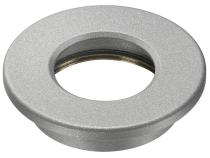
MATT BLACK
/PCBLK



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



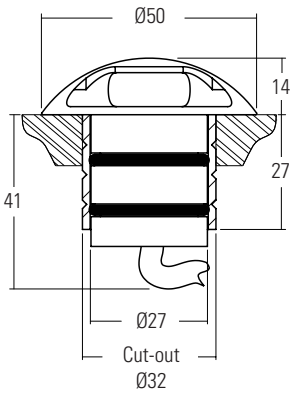
CUSTOM RAL
/CUSTFINISH

DIMENSIONS & FIXING OPTIONS

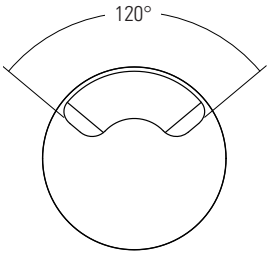
Dimensions in mm

/480 Sleeve and O-rings

Robust, watertight method of fixing for in-ground applications.

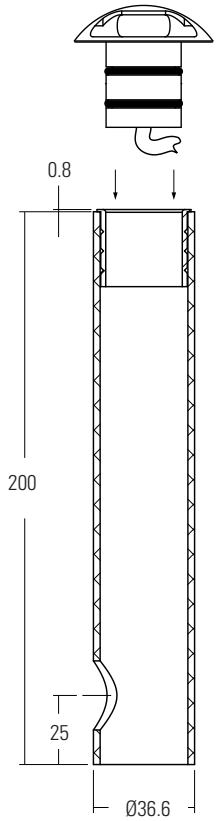






/480GT Ground tube

The in-ground tube has been designed for applications where a recessed uplighter 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.





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

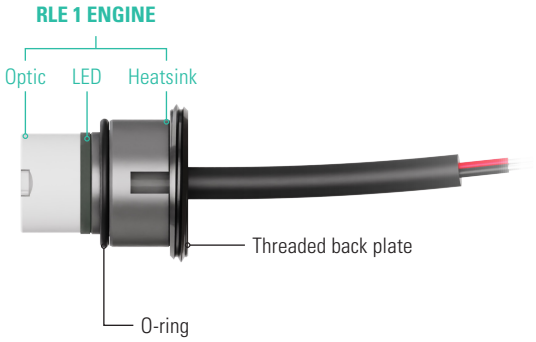


RLE Engines

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 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.

LD64 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		Optic		Accessories	
RLE1/							
RLE 1 ENGINE	RLE1/	2200K 93+ CRI	/922	Narrow beam 16mm optic	RLE/OP-16/NB	O-ring	RLE/OR2
		2700K 93+ CRI	/927			Threaded back plate	RLE/TBP
		3000K 93+ CRI	/930				
		4000K 93+ CRI on request	/940				
		5000K 93+ CRI	/950				

ORDER CODES & OPTIONS

Example: LD64-C1-500/930/316 Stainless Steel/480

Light Engine & Drive Current | / | LED Colour | / | Finish | / | Fixing

LD64 - / / /

Ambient temperature key: 55°C

C1

55°C Ta — 1.2W LED at 350mA	LD64-C1-350
1.7W LED at 500mA	LD64-C1-500

2200K 93+ CRI	/922
2700K 93+ CRI	/927
3000K 93+ CRI	/930
4000K 93+ CRI on request	/940
5000K 93+ CRI	/950
Blue	/LB
Green	/LG
Red	/LR
Amber	/LA

Machine Finish

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

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



/480



/480GT

Drivers
Use with 350mA, 500mA constant current LED drivers We have a wide range of LED drivers available. Please see the downloads section of our website.