



KEY FEATURES

- High-power C1 light engine featuring NICHIA LED delivering upto 188lm and 90+ CRI
- LED and high efficiency optic assembly recessed for reduced glare
- Optional half or full cowl accessory to prevent glare from selected angles
- 134° tilt mechanism on adjustable fixing methods
- Machined from aluminium and available in the following paint finishes: White (RAL 9016), Black (RAL 9005), Silver, Antique Bronze, Satin Antique Brass, Satin Brass and Anthracite Grey (RAL 7016) or any RAL finish
- 5 mounting methods including fixed and adjustable ground spikes



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 5.













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 [1.7W]	700mA [2.4W]		
Typical LED Circuit wattage	1.1W	1.6W	2.3W		
Delivered lumens (L ₁₀₀)*	108	141	188		
Delivered Im/Circuit W**	99	88	81		
Typical LED Source wattage	1W	1.5W	2.1W		
Source LED Im	133	187	206		
Source Im/W	136	129	98		
Forward voltage (V ₁₀₀)	2.8V	2.9V	3V		
CRI	93				
Colour consistency	2 SDCM				
Peak intensity	1,145 cd				
LOR	0.91				
TM30	RF93 RG99				
UGR***	6.6	7.5	8.5		
BUG rating ('downlight' mounted)	B0-U0-G0				
LED lifetime	L90B5 at 90,000hrs				
Applications					

This data is based on LD51-C1-700-LW30-NB

MECHANICAL

Ambient temperature	-20°C to 50°C (350mA-700mA)	
Glass	3mm thick borosilicate	
Materials	Anodised aluminium body with stainless steel fixing bracket.	
Weight of product	0.012kg	
IP rating	IP67	
Wiring	In-series constant current wiring (pre-wired with 2 core cable at a length of 1000mm)	

ENVIRONMENTAL

TM65	Available on request
TM66	2.8
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)	RLE 1 Visit page 6 for replacement parts







^{*}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

AVAILABLE FINISHES

The LD51 body is machined from aluminium and painted in-house at LightGraphix. Paint finishes are suitable for interior and exterior use on surface mounted products. Our standard colours are below but we can accommodate any RAL request.

WET SPRAY



BLACK



WHITE



SILVER ANODISED



ANTIQUE WHITE



ANTIQUE BRONZE



SATIN ANTIQUE BRASS



SATIN BRASS



ANTHRACITE GREY (RAL 7016)



RAL COLOURS



POWDER COAT



TEXTURED FIR GREEN (RAL 6009)









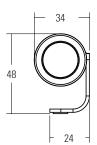


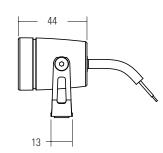
MOUNTING OPTIONS AND DIMENSIONS

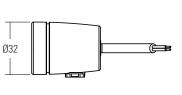
Dimensions in mm

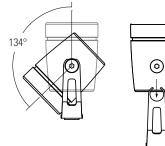
/SAM Surface adjustable mount

Supplied as standard with a Stainless Steel mounting bracket.









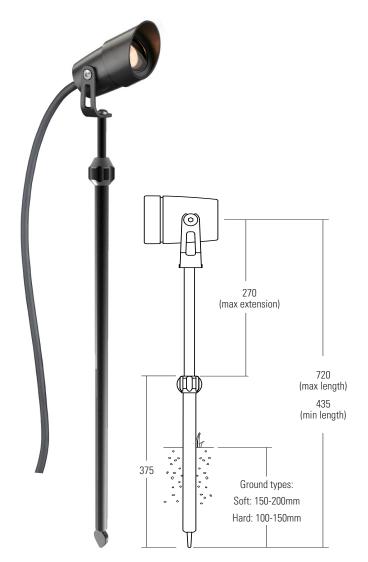
/GS Ground spike

The ground spike is manufactured out of stainless steel and painted to match the body. The standard length is 250mm.

/GSA Adjustable ground spike

The adjustable ground spike is manufactured out of stainless steel and painted to match the body. It is supplied with a 2m cable as standard.





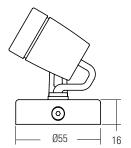






/SMB Surface mount base





/TS Tree strap

The tree strap material grips and is tightened around the trunk. A tilt adjustment of 10° can be achieved towards the tree to provide a vertical beam.

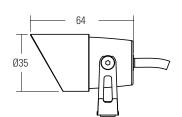


GLARE CONTROL OPTIONS

/HC51 Anti-glare half cowl

With the aid of an O-ring the aluminium cowl is securely fitted to the LD51. This allows it to be rotated in any direction to reduce glare.

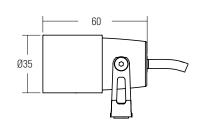




/FC51 Anti-glare full cowl

With the aid of an O-ring the aluminium cowl is securely fitted to the LD51. The full cowl reduces glare from all angles.















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.

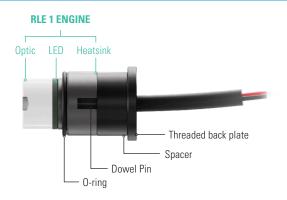


Repairs can be conducted on any site worldwide, or in our factory, with a small tool. Simply swap out the singular modular LED insert, and replace it with another, along with a new optic, which are both supplied by us. The warranty provided with the product with vary based on who is performing RLE repairs.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



LD51 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 RLE1/ **RLE 1 ENGINE** RLE1/ Super Warm White Narrow beam RLE/OP-16/NB /LW22 (2200K) 16mm optic Extra Warm White Medium beam RLE/OP-16/MB /LW27 (2700K) 16mm optic Warm White Wide beam /LW30 RLE/OP-16/WB (3000K)16mm optic White Oval beam 16mm RLE/OP-16/OB /LW40 (4000K) - on request Cool White /LW50

Dowel pin for Oval beam orientation	RLE1/OP-16/DP
0-ring	RLE/OR
Threaded back plate	RLE/TBP
Spacer for LD51	RLE/SP1

Accessories







(5000K)



ORDER CODES & OPTIONS

Example: LD51-C1-700 / LW30 / MB / Black / C0 / GS

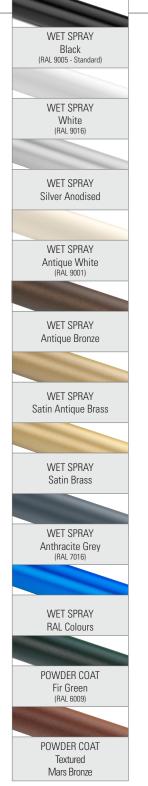
Light Engine & Drive Current		LED Colour		Beam Angle		Finish		Fixing & Accessories
LD51 -	/		/		/		/	

WHITE LED ENGINES

(0)	C1	
1.2W LED at 350mA	LD51-C1-350	
1.7W LED at 500mA	LD51-C1-500	
2.4W LED at 700mA	LD51-C1-700	

Super Warm White (2200K)	/LW22
Extra Warm White (2700K)	/LW27
Warm White (3000K)	/LW30
White (4000K) on request	/LW40
Cool White (5000K)	/LW50
Red	/LR
Green	/LG
Blue	/LB
Amber	/LA

12° Narrow spot	/NB	
31° Medium	/MB	
48° Wide	/WB	





Drivers

Use with 350mA, 500mA & 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.





