

LD51

MINIATURE SURFACE MOUNTED ADJUSTABLE LED SPOTLIGHT

○ | 350 mA | 500 mA | 700 mA | IP67 | 55°C Ta | PART L General | PART L Display | 5 YEAR Warranty

CB | RLED | R+R | MOISTURE GUARD

LD51 is a discreet, miniature surface mounted adjustable LED spotlight, with the versatility to meet a large range of applicational requirements. It has been specified on many of our most prestigious projects. The high-power LED is focused with a range of optics that offer excellent beam shape at various angles, thanks to a lockable tilt mechanism, that angles the fitting in the direction of the lit surface. It is manufactured from high quality machined components with glare control accessories and 5 fixing methods available, making it ideal for a variety of interior and exterior projects.

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
- Wide range of powder coated finishes including: 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
- 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 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 [1.7W]	700mA [2.4W]
Typical LED Circuit wattage	1.1W	1.6W	2.3W
Delivered lumens (L_{100})*	108	141	188
Delivered lm/Circuit W**	99	88	81
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	1,145 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-C1-700/930/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	-20°C to 55°C	-20°C to 55°C	-20°C to 55°C
Glass	3mm thick borosilicate		
Materials	Anodised aluminium body with stainless steel fixing bracket.		
Weight of product	0.12kg		
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	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 6 for replacement parts

AVAILABLE FINISHES

Please refer to our finishes guide for full details

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

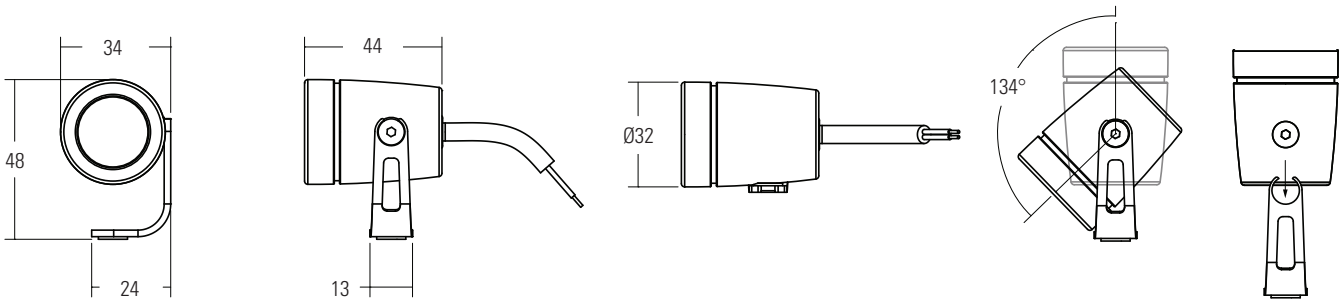


Design: Lighting Design International
Project: Four Seasons Astir Palace Hotel Athens, Greece
Product: LD51, LD51 Photography: Gavriil (www.gavriilux.com)

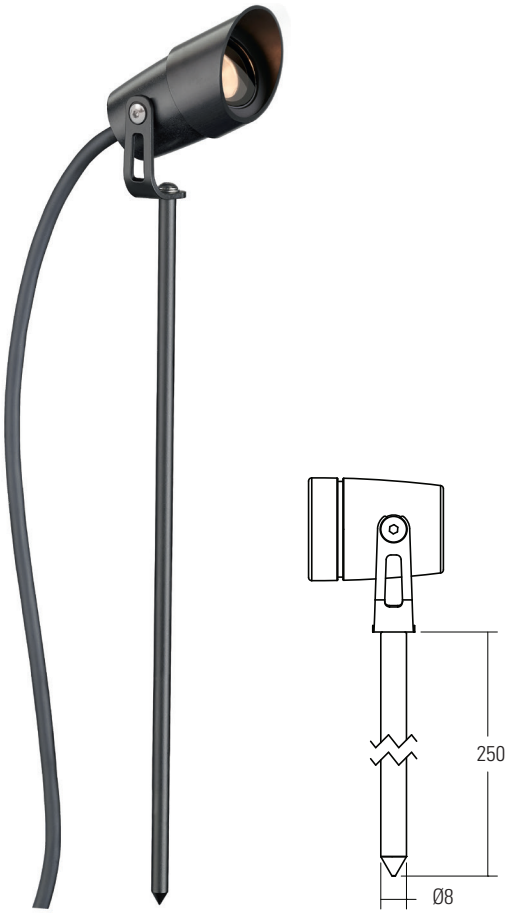
MOUNTING OPTIONS AND DIMENSIONS

Dimensions in mm

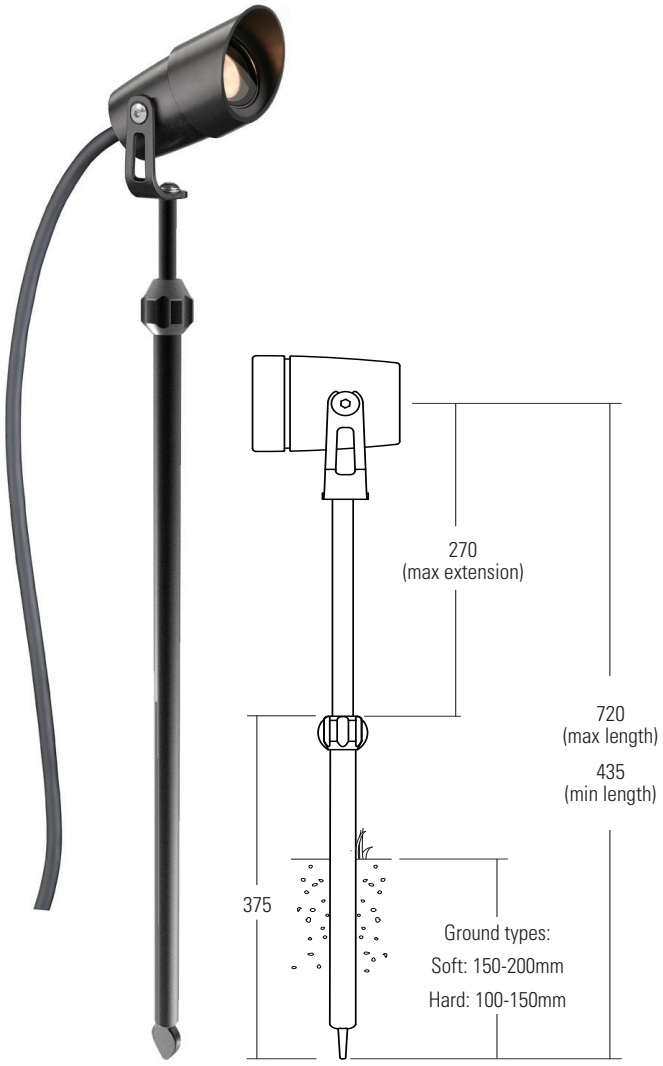
/SAM Surface adjustable mount
Supplied as standard with a Stainless Steel mounting bracket.



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

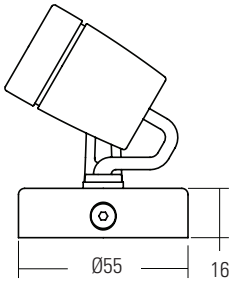


/GSA Adjustable ground spike
The adjustable ground spike is manufactured out of stainless steel and painted to match the body. It is supplied with a 2m cable as standard.



/SMB Surface mount base

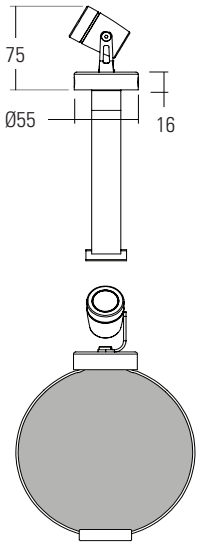




/TS Tree strap

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.





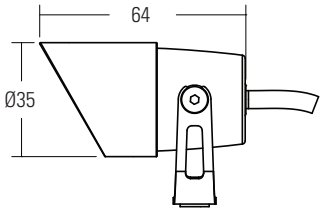
Trunk measurements:
1400mm circumference
Ø450 maximum diameter

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.

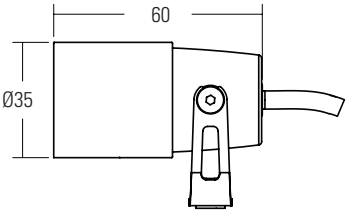


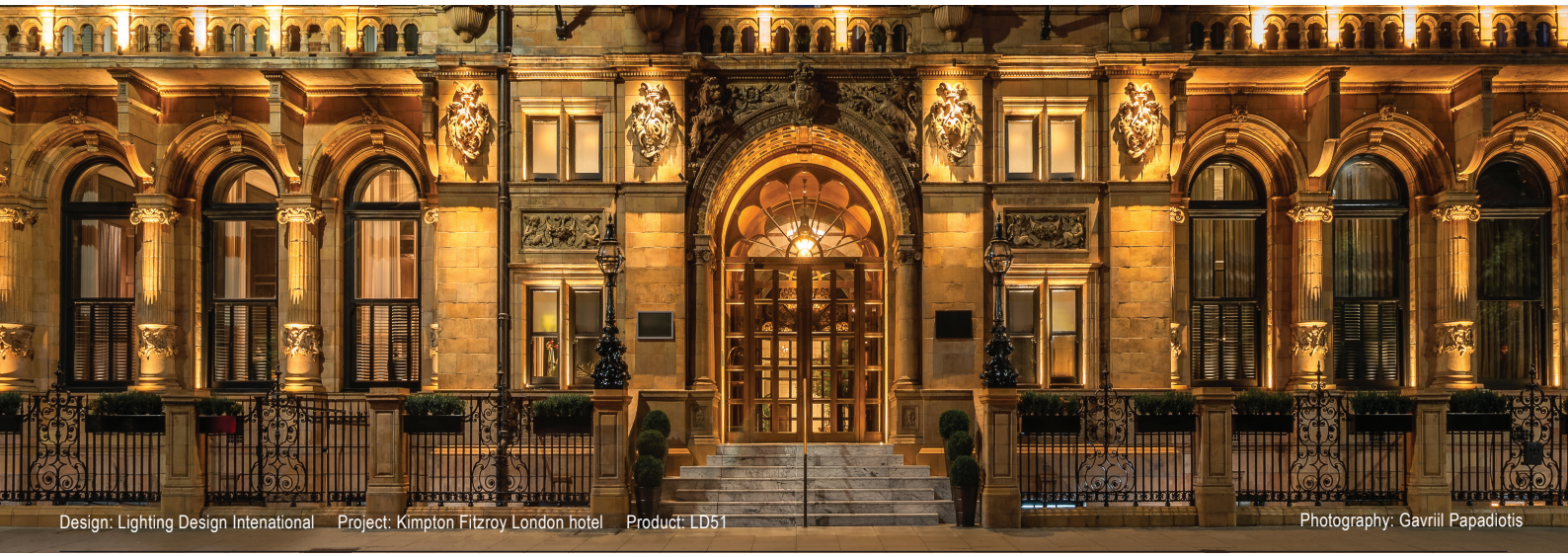


/FC51 Anti-glare full cowl

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







Design: Lighting Design Intenational Project: Kimpton Fitzroy London hotel Product: LD51 Photography: Gavriil Papadiotis

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.

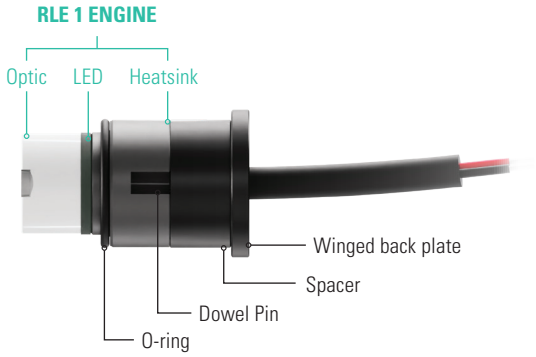


RLE Engines

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.

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		Accessories	
RLE1/							
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	Winged back plate	RLE/WBP
		4000K 93+ CRI on request	/940	Oval beam 16mm optic	RLE/OP-16/OB	Spacer for LD51	RLE/SP1
		5000K 93+ CRI	/950				

ORDER CODES & OPTIONS

Example: LD51-C1-700/930/MB/Black/CO/GS

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

Ambient temperature key: 55°C

C1

55°C Ta	1.2W LED at 350mA	LD51-C1-350	2200K 93+ CRI	/922	12° Narrow spot	/NB	Matt Black	/SAM
55°C Ta	1.7W LED at 500mA	LD51-C1-500	2700K 93+ CRI	/927	31° Medium	/MB	Matt White	/GS
55°C Ta	2.4W LED at 700mA	LD51-C1-700	3000K 93+ CRI	/930	48° Wide	/WB	Antique White	/GSA
			4000K 93+ CRI on request	/940	12 x 36° Oval	/OB	Matt Silver	/SMB
			5000K 93+ CRI	/950			Anthracite Grey	/TS
			Red	/LR			Gun Metal Grey	/HC51
			Green	/LG			Antique Bronze	/FC51
			Blue	/LB			Earth Bronze	
			Amber	/LA			Desert Bronze	
							Textured Mars Bronze	
							Textured Fir Green	
							White Stone	
							Any RAL	

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.