

LD51

MINIATURE SURFACE MOUNTED ADJUSTABLE LED SPOTLIGHT



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 glare cowl accessory can be rotated 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
- > Integral anti-wicking barrier increases protection against moisture ingress due to incorrect IP rated cable 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	350mA	500mA	700mA
LED power (Max)**	1.2W	1.7W	2.4W
Delivered lumens (L ₁₀₀)*	108	141	188
Lumens per circuit watt	90	83	78
Forward voltage (V ₁₀₀)	3V	3.2V	3.4V
CRI (Typ)	93		
Colour consistency	2 SCDM		
Peak intensity	1145 cd		
LED Lumens	206		
LOR	0.91		
TM30	RF93	RG99	
UGR***	19.2		
LED lifetime	L90B5 at 90,000hrs		
Applications			

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

Ambient temperature	-20° to 45° (350mA-500mA) or -20° to 35° (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)

AVAILABLE FINISHES

Please refer to our finishes guide for full details

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.



ALUMINIUM BLACK ANODISED
(STANDARD)

WET SPRAY



WHITE
(RAL 9016)



SATIN ANTIQUE BRASS



SATIN BRASS



SILVER ANODISED



ANTIQUE BRONZE



ANTHRACITE GREY
(RAL 7016)



RAL COLOURS

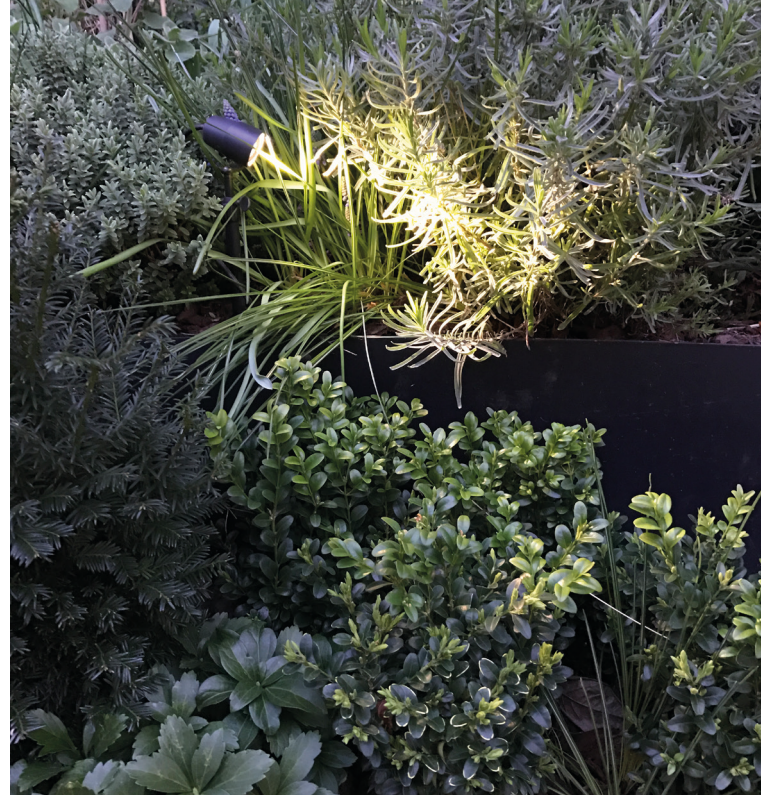
POWDER COAT



TEXTURED MARS BRONZE
(SX350F)



TEXTURED FIR GREEN
(RAL 6009)

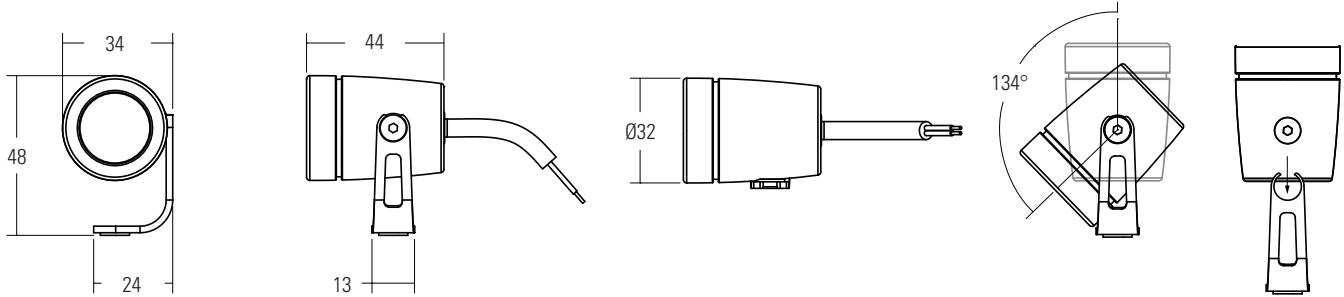


Product: LD51, LD56
Project: Drapers Hall
Design: Richard Morley Lighting

MOUNTING OPTIONS AND DIMENSIONS

Dimensions in mm

Supplied as standard with a Stainless Steel mounting bracket.

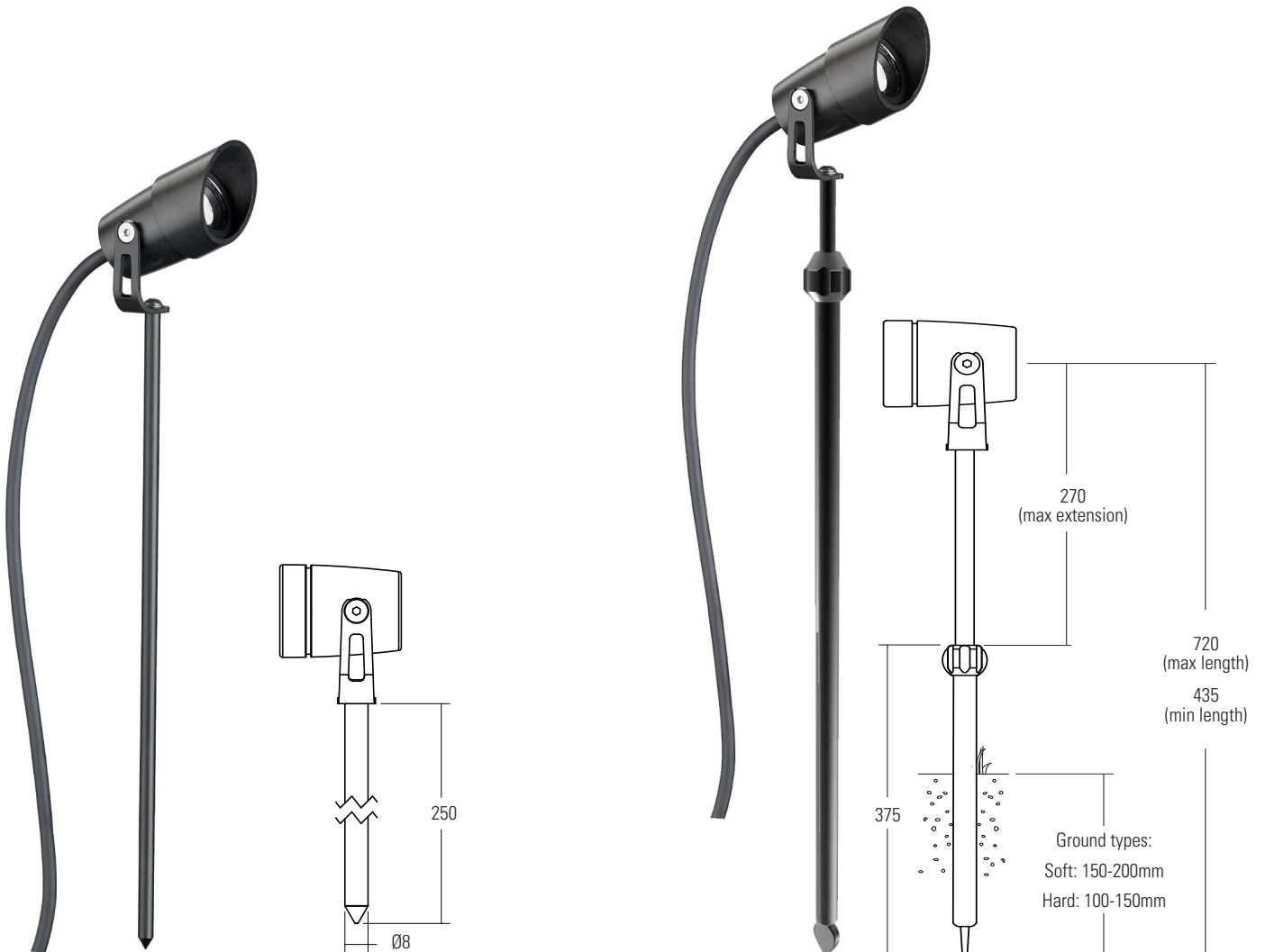


/GS Ground spike

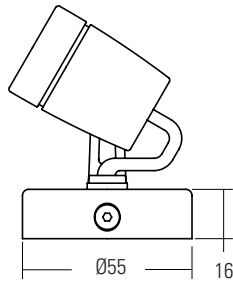
The ground spike is manufactured out of stainless steel and painted to match the body. The standard length is 250mm.

/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.

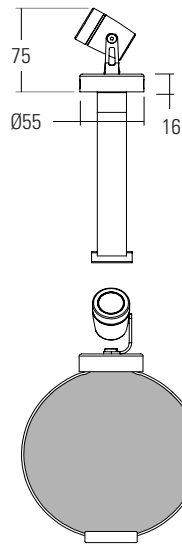


/SMB Surface mount base



/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.

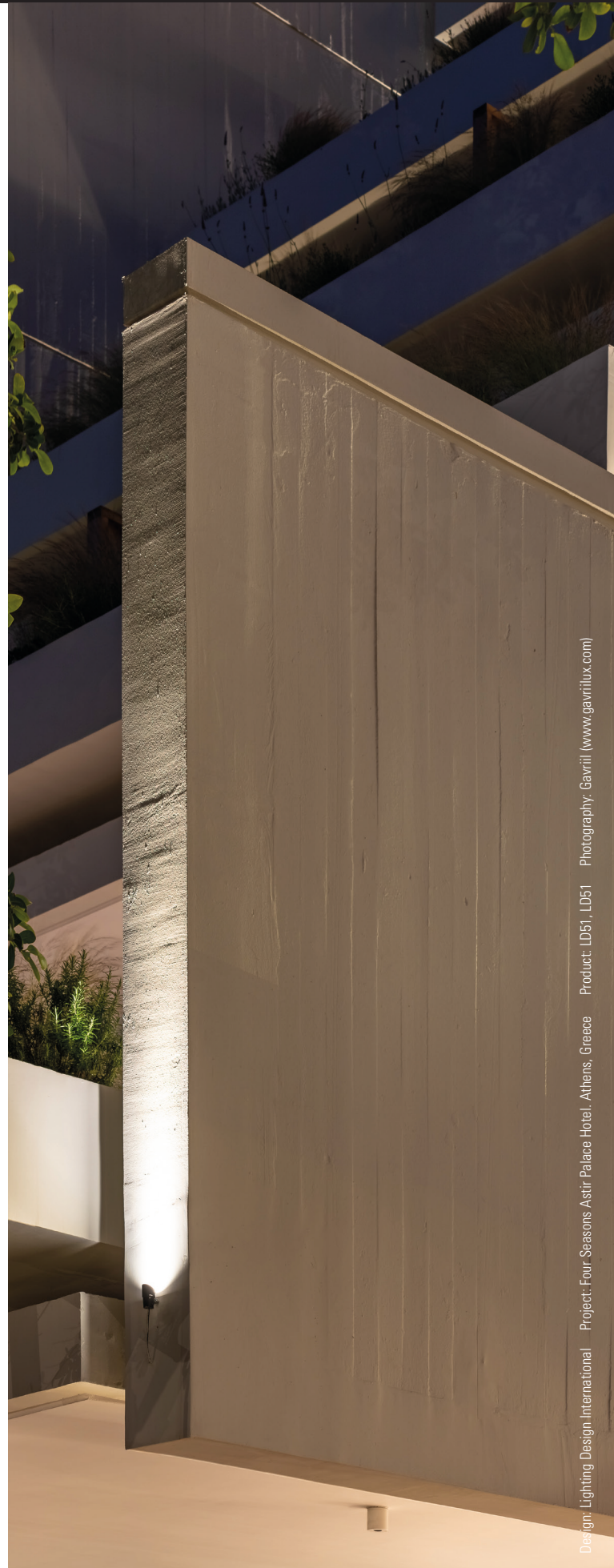
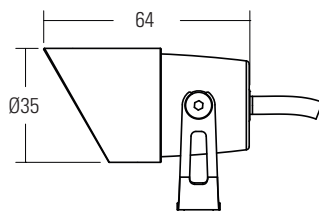


Trunk measurements:
1400mm circumference
Ø450 maximum diameter

GLARE CONTROL OPTIONS

/CO Anti-glare 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.



ORDER CODES & OPTIONS

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

Light Engine & Drive Current

LED Colour

Beam Angle

Finish

Fixing & Accessories

LD51 - / / / / /

WHITE LED ENGINES






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
12 x 36° Oval	/OB

	Aluminium black anodised (standard)
	WET SPRAY White (RAL 9016)
	WET SPRAY Silver anodised
	WET SPRAY Antique Bronze
	WET SPRAY Satin Antique Brass
	WET SPRAY Satin Brass
	WET SPRAY Anthracite Grey (RAL 7016)
	WET SPRAY RAL Colours
	POWDER COAT Textured Mars Bronze (SX350F)
	POWDER COAT Textured Fir Green (RAL 6009)

	/GS
	/GSA
	/CO
	/SMB
	/TS

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.