

LD51



Miniature Surface Mounted Adjustable LED Spotlight

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Design: DPA Lighting Project: Waldorf Astoria, Amsterdam Product: LD51

LD51 is a miniature IP67 rated, surface mounted, adjustable LED spotlight. The high power LED is focussed with a range of optics that offer excellent beam shape in various angles. It is machined from high quality machined components with a range of accessories making it ideal for both interior and exterior projects.

Key Features

- LED and lens assembly recessed within a black anodised body for reduced glare
- Optional glare cowl accessory can be rotated to hide glare from selected angles
- Lockable tilt mechanism
- Ground spike accessory for garden/planter lighting
- Typical 93 CRI in 3000K warm white
- High efficiency optics available
- Integral anti wicking barrier increases protection against moisture ingress due to incorrect IP rated cable connections
- Range of finishes available
- Available with Switch, 0-10V, DMX, Dali or Mains dimmable drivers

Specification

Applications



Beam Angles

12°, 31°, 48°, 36° x 12°

LED type

1 x Cree XPG

Colour temperature

2700K / 3000K

5000K

Drive Current (mA)

350

500

700

350

500

700

LED power* (W)

1.2W

1.7W

2.4W

1.2W

1.7W

2.4W

CRI (typical)

93

93

93

75

75

75

 Forward voltage (V)₁₀₀

3.0V

3.2V

3.4V

3.0V

3.2V

3.4V

 Delivered lumens (L₁₀₀)

72

95

119

112

147

184

Lumens per circuit watt**

60

56

50

93

87

77

LED lifetime (to 70% lumen maintenance)

50,000hrs at a max ambient temperature of 35°C (if specifying fitting in ambient temperatures of up to 45°C run at 500mA max, LD51-500)

Materials

Anodised aluminium body with stainless steel fixing bracket. Optional stainless steel ground spike and anodised aluminium cowl

Glass

3mm thick borosilicate

Wiring

Comes pre-wired with 2 core 500mm lead, can be specified with up to 10m at extra cost

IP rating

IP67

*LED wattage includes losses associated with using an 85% efficient driver

**data shown allows for an ambient temperature of 35°C



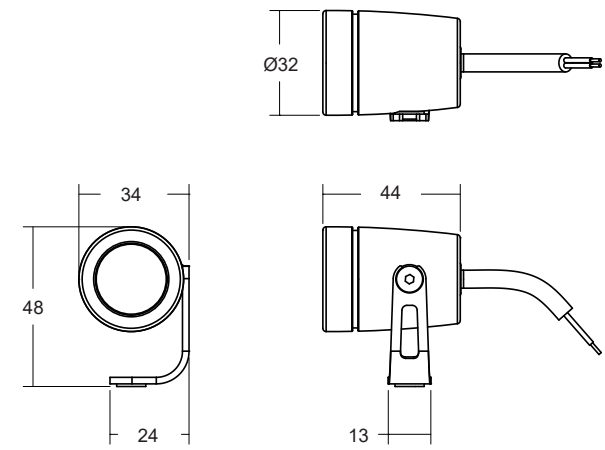
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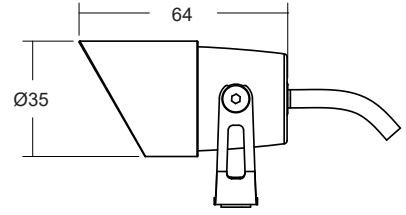
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Dimensions and Accessories

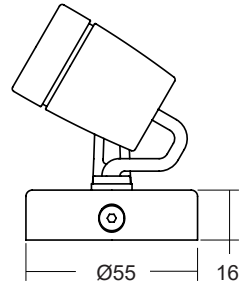


/CO - Anti Glare Cowl

With the aid of an O-ring the cowl is securely fitted to the LD51. This allows it to be rotated to hide glare.

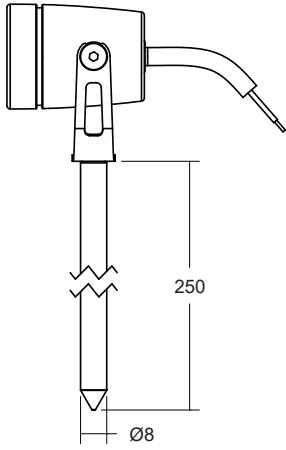


/SMB - Surface Mount Base



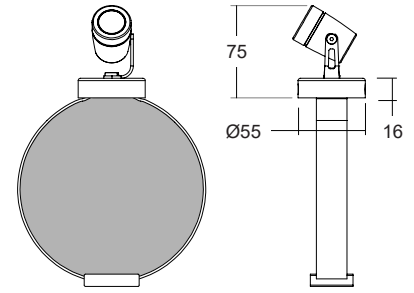
/GS - Ground Spike

The ground spike is manufactured out of stainless steel and then painted to match the LD51 body. The standard length is 250mm.



/TS - Tree Strap

The tree strap allows the LD51 to grip a trunk when tightened. A tilt adjustment of 10deg can be achieved towards the tree to provide a vertical beam.



Trunk measurements:
1400mm circumference
Ø450 maximum diameter

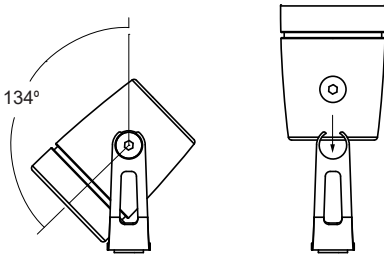
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Pivot Bracket



Photometrics

Photometric files are included in the design pack which can be downloaded from the LD51 product page on the website.



Order Codes and Options

Product code	LED colour	Lens angle	Accessories	Finish
LD51 - 350 - 500 - 700	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

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

Product codes with output options

1.2W LED 350mA	LD51-350
1.7W LED 500mA	LD51-500
2.4W LED 700mA	LD51-700

LED colour options

LED colour options	Suffix
Extra Warm White (2700K)	/LW27
Warm White (3000K)	/LW30
Cool White (5000K)	/LW50
Blue	/LB
Green	/LG
Red	/LR
Amber	/LA

Beam / lens angle options

12° narrow spot	/NB
31° medium spot	/MB
48° wide spot	/WB
36° x 12° oval beam	/OB

Fixing methods and accessories

Cowl	/CO
Ground spike (250mm as standard)	/GS
Surface mount base	/SMB
Tree strap	/TS

Paint finish options

Silver / black / white (RAL 9016) / Ral finish

(please see our finishes guide for bronze and other wet spary finishes)

Use with 350mA, 500mA or 700mA constant current LED drivers

For our complete range of LED drivers please download the data sheet from the downloads section at www.lightgraphix.co.uk