

# LD51



Miniature Surface Mounted Adjustable LED Spotlight

Data sheet - Page 1



Design Installation: Richard Horley Lighting Design Ltd Project: The Burgess Product: LD51, LD56, LD38

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
- Fixed & adjustable ground spike accessories 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 XPG2

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)<sub>100</sub>

3.0V

3.2V

3.4V

3.0V

3.2V

3.4V

 Delivered lumens\*\* (L<sub>100</sub>)

95

130

174

116

158

211

Lumens per circuit watt

79

76

73

97

93

88

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

\*\*2700K lumen output is 12% lower than the 3000K figure listed

4000K lumen output is 14% higher than the 3000K figure listed (80 CRI)



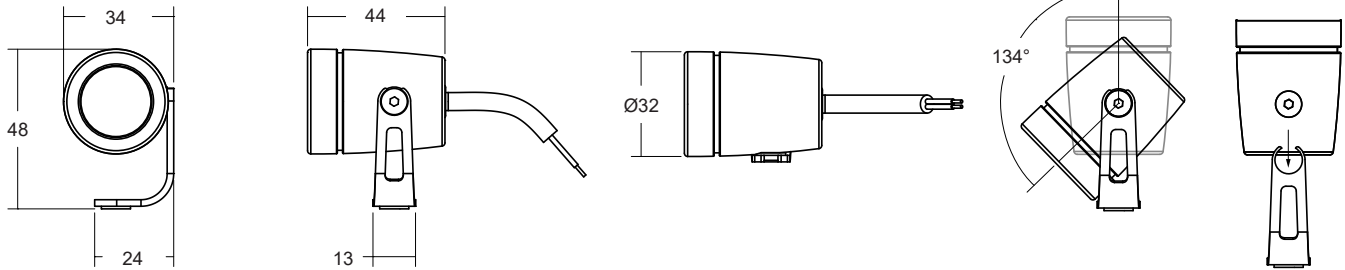
# LD51



Miniature Surface Mounted Adjustable LED Spotlight

Data sheet - Page 2

## Dimensions and Accessories

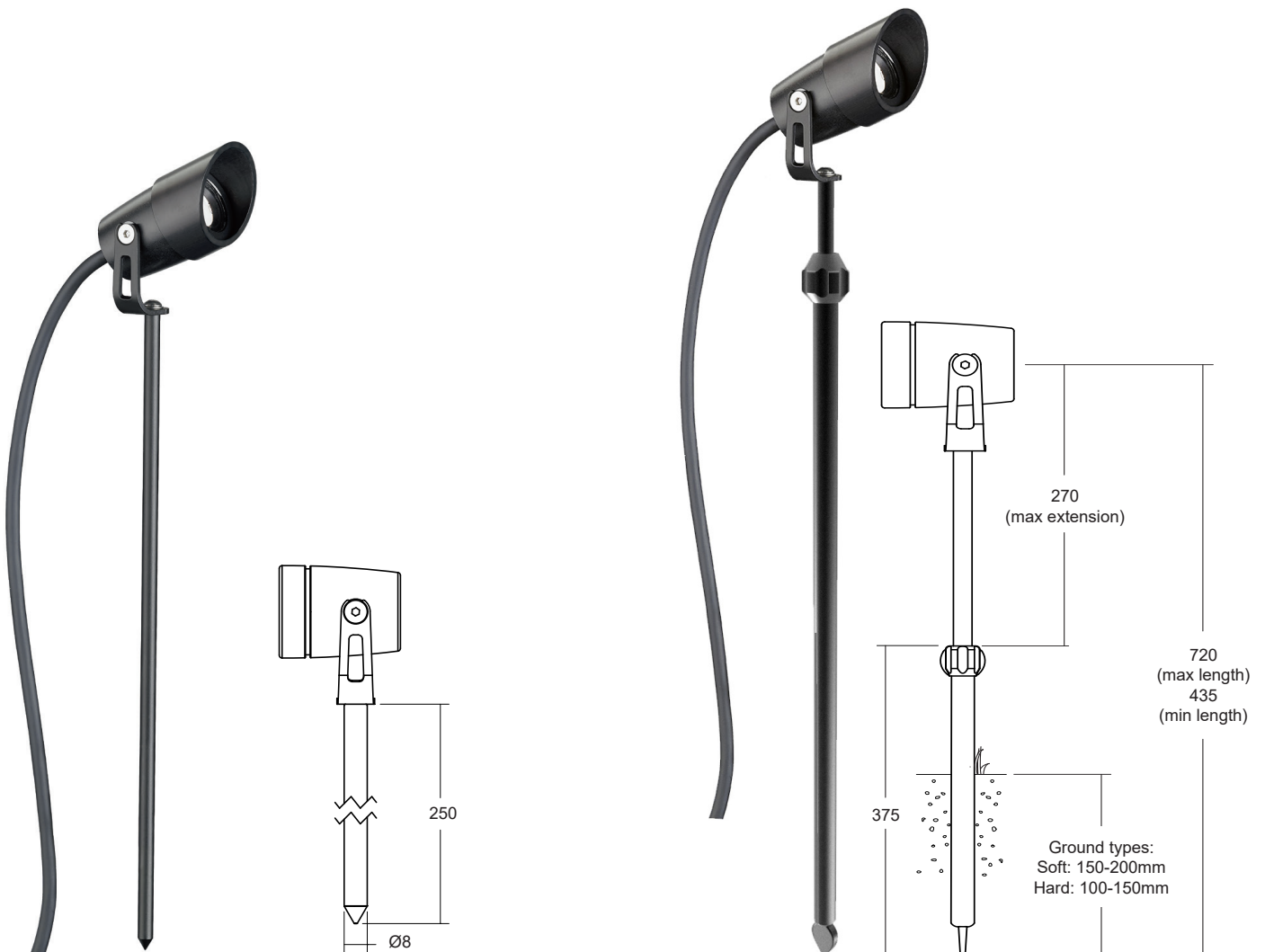


### /GS - Ground Spike

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

### /GSA - Adjustable Ground Spike

The adjustable ground spike is manufactured out of stainless steel and then painted to match the LD51 body. It is supplied with a 2m cable as standard.



# LD51



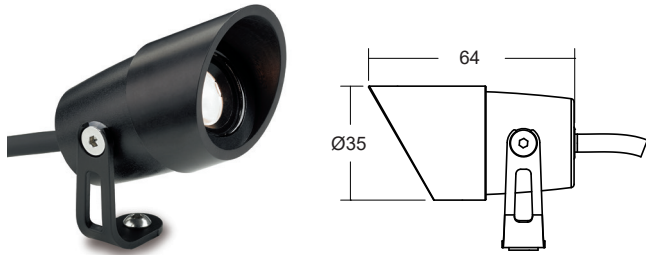
Miniature Surface Mounted Adjustable LED Spotlight

Data sheet - Page 3

## Dimensions and Accessories Cont.

### /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.



### /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.



### /SMB - Surface Mount Base



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

# LD51

Miniature Surface Mounted Adjustable LED Spotlight



Data sheet - Page 4



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

\*Other LED colour temperatures are available. Please speak to a member of our sales team.

### 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

Ground spike (250mm as standard)	/GS
Adjustable ground spike	/GSA
Anti glare cowl	/CO
Surface Mount Base	/SMB
Tree strap	/TS

### Finish options

Black anodised  
 Paint finish silver / white (RAL 9016) / antique bronze / satin antique brass / satin brass / RAL finish

### 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](http://www.lightgraphix.co.uk)