

EDITION 11

# LightGraphix

Creative Lighting Solutions

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



## LIGHTGRAPHIX

LIGHTGRAPHIX IS AN INTERNATIONAL COMPANY SPECIALISING IN THE DESIGN AND MANUFACTURE OF LIGHTING FOR ARCHITECTURAL, MARINE AND DISPLAY USE.

The company started in 1979 in Dartford, Kent and moved to purpose built premises in next door Crayford in 2006. The company's facilities include metalwork machining and presswork, fabrication, powder coating, assembly, and an extensive testing area together with design and administration offices and a comprehensive showroom.

With over 30 years experience in the lighting industry we have built up a reputation for high quality, well made and innovative products backed up by efficient and reliable customer service. We are very proud that all our products are manufactured in the UK, which helps us to develop new products rapidly, with the highest of quality, flexibility on delivery and the production of custom lengths.

We have the pleasure of working with some of the top international lighting designers and supply lighting products all over the world. Many of our products have been developed in consultation with these lighting designers.

### WHAT MAKES US SO DIFFERENT?

- > Linear products are all custom made to size, for us customisation is standard.
- > When you speak to someone at LightGraphix they are knowledgeable and can help with most enquiries immediately, you won't be passed from person to person to get the information you need.
- > High quality products machined from the highest grades of metal.
- > Thorough testing ensures long life even in the harshest of environments.
- > We love what we do!





Design: Spectron Project: Lyca Product: LD36 and LD11

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**UPLIGHTS AND WALL LIGHTS**



**SURFACE MOUNTED**



**RECESSED FOOTLIGHTS**



**DOWNLIGHTS**



**WALL AND FLOOR MARKERS**



**RECESSED WALL MOUNTED**



**LINEAR**





# GLOBAL NETWORK



LightGraphix supplies lighting to a wide variety of prestigious projects throughout the world and 40% of our production is currently exported with exports increasing year on year. Our lighting products are supplied through a global network of agents who have been chosen for their reliability and knowledge. Please contact us for details.

# PROJECTS

LightGraphix's lighting products are extremely versatile and have been used both internally and externally for a wide range of projects involving retail environments, museums, exhibitions, churches, hotels, yachts and cruise ships, theatres and cinemas, restaurants, bars, clubs, bridges, commercial buildings and private homes.

We take orders for the smallest spare parts and yet at the same time handle complex overseas projects such as the new Hilton in Riyadh with custom finishes and lengths and with a total contract value in excess of 400,000 GBP.

## CLIENTS INCLUDE:

- |                                     |                        |
|-------------------------------------|------------------------|
| 20 Fenchurch Street (Walkie Talkie) | Intercontinental Corp. |
| Alias Hotels                        | Jimmy Choo             |
| British Airways                     | Kempinski Hotels       |
| British Transport Museum            | Lexus Cars             |
| Calvin Klein                        | Marriott Hotels        |
| Clarins                             | Selfridges             |
| Celebrity Cruises                   | Skype                  |
| Christian Louboutin                 | St James's Hotel       |
| Estée Lauder                        | The Dorchester         |
| First Leisure                       | The Ritz Hotel         |
| Four Seasons Hotels                 | The Shard              |
| Fraser Hart Jewellers               | The Spa at Gleneagles  |
| French Connection                   | The Waldorf Hotel      |
| Google                              | Theo Fennel            |
| Harrods                             | Travel Lodge           |
| Hilton Hotels                       | Tussauds Group         |
| Hotel Du Cap-Ferrat                 | Virgin Group           |
| Hyatt International                 | Whitbread Group        |
| Lansdowne Club                      | Savoy Hotel            |



Design: Spectron



Design: Into Lighting Design



Design: James Morse Lighting Design



Design: Lighting Design International

## LIA

All LightGraphix products are designed and tested to comply with the relevant sections of EN60598 (the European Standard for lighting), which promotes good quality, safe lighting combining high performance and efficiency. LightGraphix is a member of the Lighting Industry Association (LIA).

We are members of the LIA Code of Practice scheme which monitors our quality control systems, and adherence to standards with an annual inspection visit to maintain our accreditation. This also allows the company to access the LIA's testing laboratories and technical knowledge.

See the website for more information:  
[www.thelia.org.uk](http://www.thelia.org.uk)

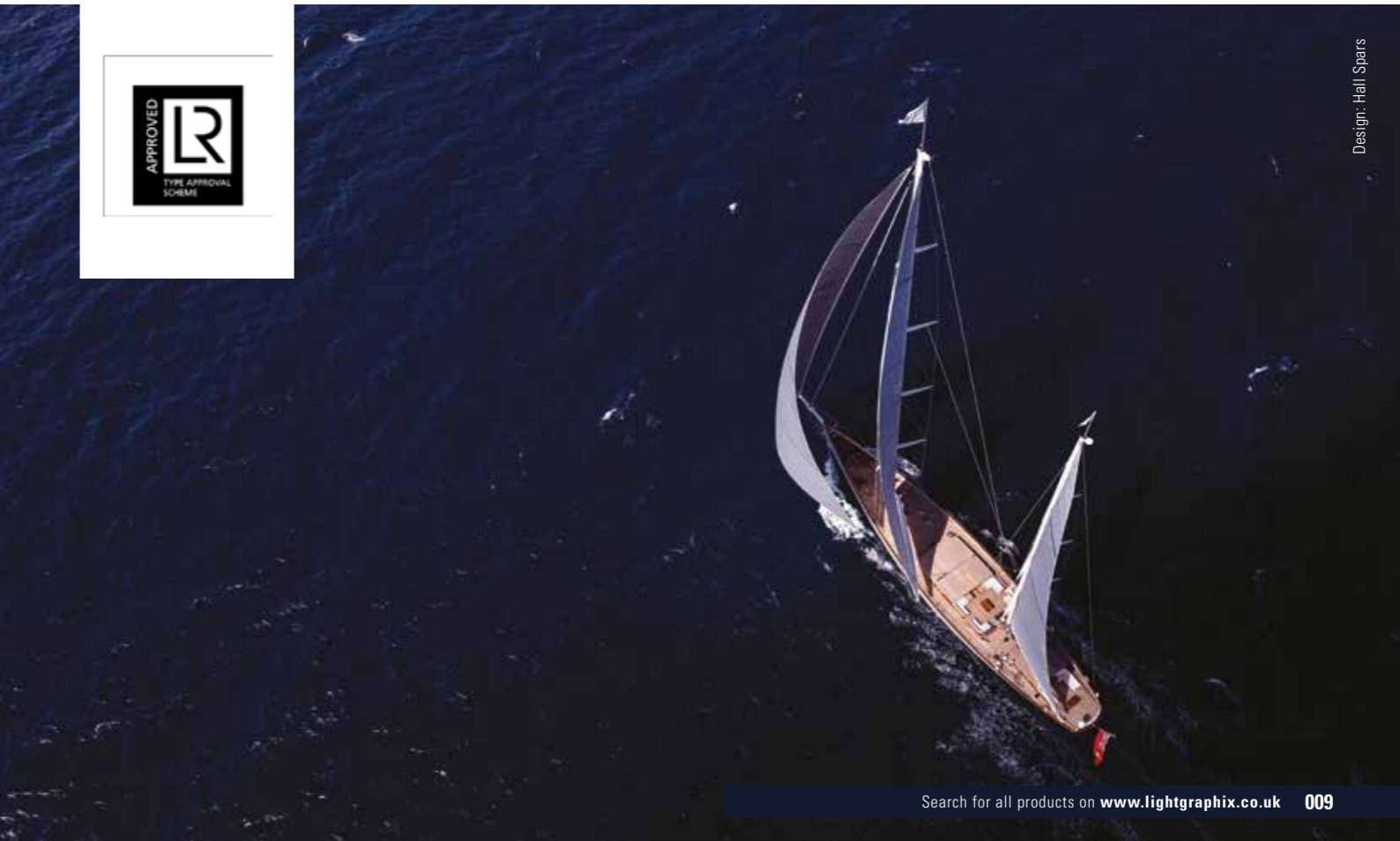
## LLOYD'S TYPE APPROVAL

Type Approval from Lloyd's Register demonstrates that LightGraphix's products in a marine environment conform to recognised industry quality standards, international conventions and LR Rules. Approval includes a process of independent design review, sample testing and verification of production controls. These products are approved for marine, offshore and industrial use in environmental categories ENV1, ENV2, ENV3 and ENV4 as described in LR Test specification No.1:2013 in association with BSEN 60598 and BSEN 60529.

See the website for more information:  
[www.lr.org/en/marine/compliance/type-approval/](http://www.lr.org/en/marine/compliance/type-approval/)



Design: Lighting Design International | Project: Savoy Hotel | Product: LD56



Design: Hall Spars



# OUR WEBSITE

Edition 11 has been designed as more of an ideas booklet. It contains large project images and enough data to enable you to specify our products. However, please always check on our website and look at the data sheets for more detailed and up to date technical information as catalogues go out of date very quickly.

On our website you will find the following information:

## DATA SHEETS WHICH CONTAIN:

- > Product images
- > Product diagrams
- > Output data
- > Accessories
- > Project information
- > Specification codes

## DESIGN PACKS WHICH CONTAIN:

- > Photometrics (ldt files)
- > Product images (jpeg files)
- > Product diagrams (jpeg files)
- > Autocad drawings

## DRIVER TABLES WHICH:

- > List the relevant drivers for that product



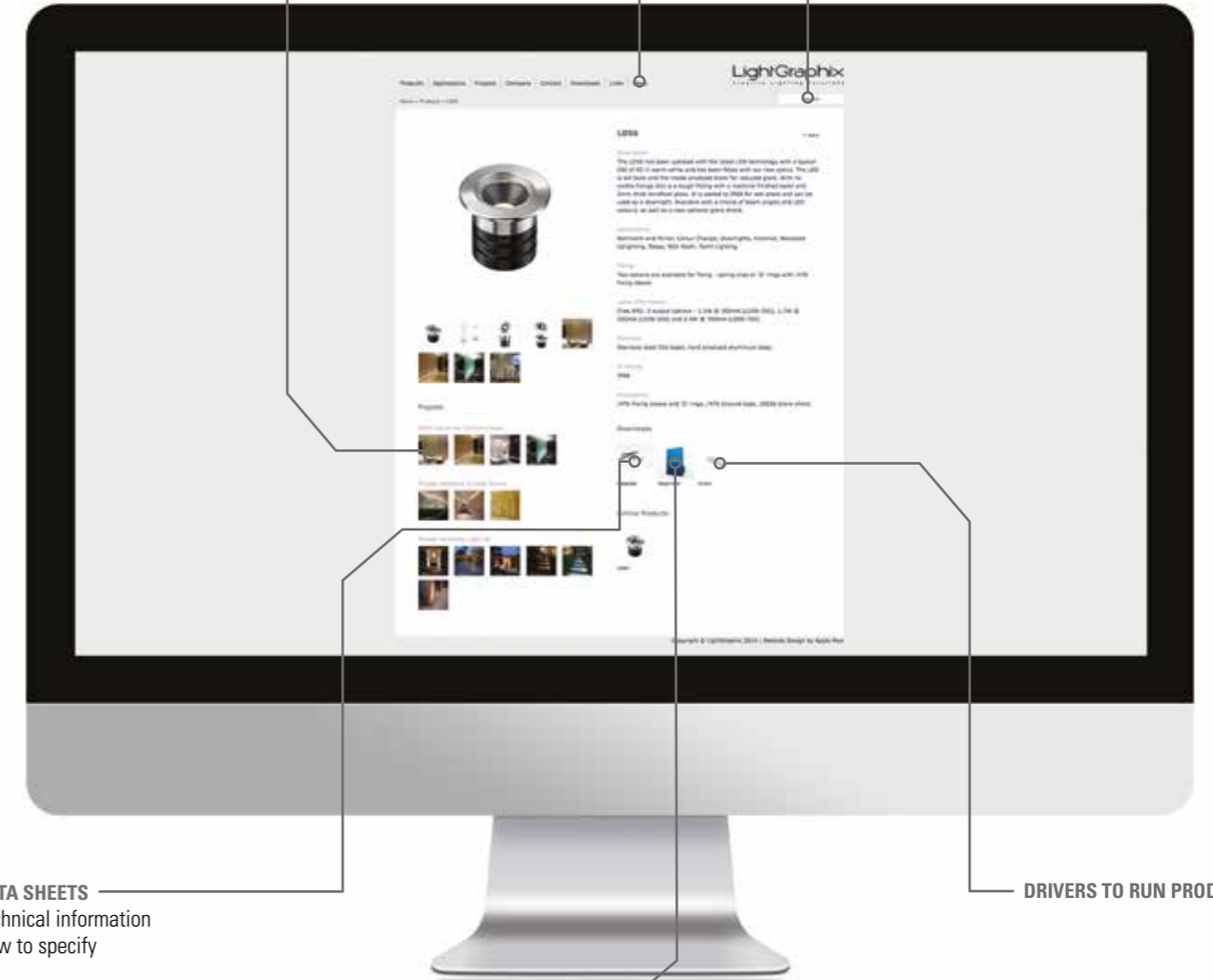
## EXAMPLE PROJECTS

## NEWS

New products  
New projects  
Specials

## SEARCH

Type in product code



## DATA SHEETS

Technical information  
How to specify








## DESIGN PACK

Photometrics (LDT.files)  
Product images  
Product diagrams





## DRIVERS TO RUN PRODUCT

In Edition 11 we have tried to reduce the amount of text. Symbols have been used as a quick visual guide to the products specification. The key below explains what each symbol means. This is repeated on the last page of the catalogue to make finding it easier.







## LED CONFIGURATION AND RGB OPTIONS

	Single LED
	3 Cluster LEDs
	Quad LEDs
	6 Cluster LEDs
	Multiple linear LEDs
	RGB
	RGBW

## LED INPUT TYPE















	Constant Voltage
	350mA Constant Current
	500mA Constant Current
	700mA Constant Current

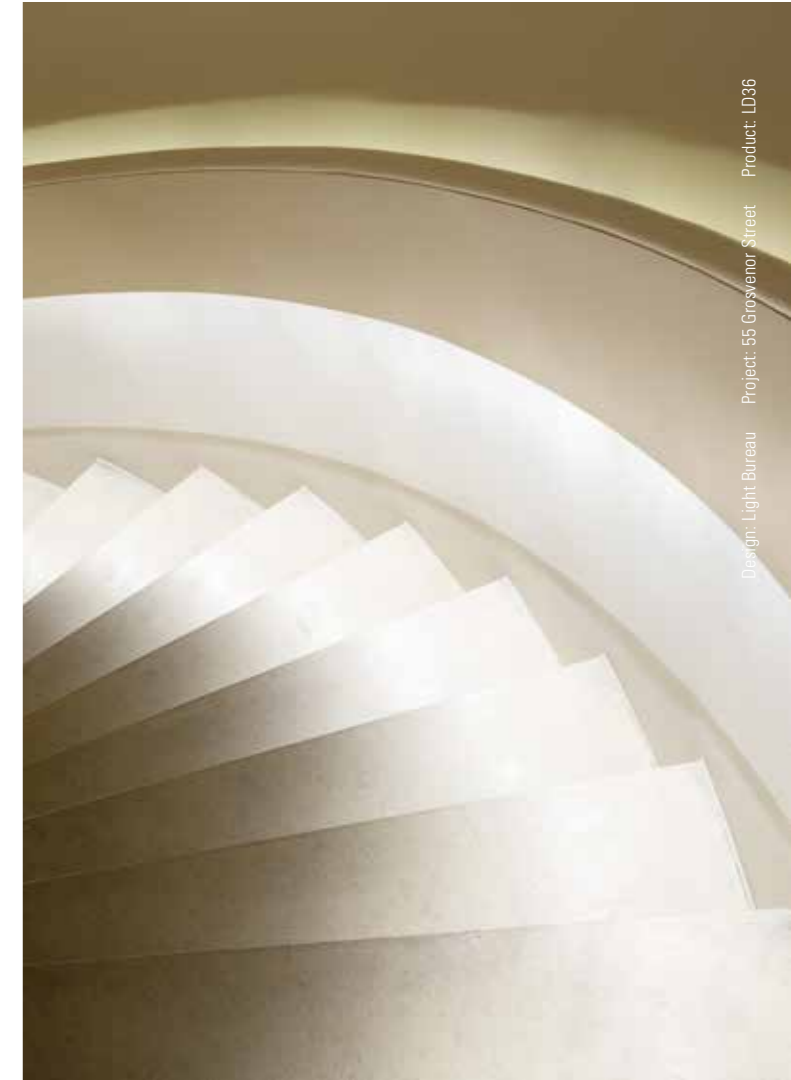
## IP RATING

	Totally protected against dust, protected against long periods of immersion under pressure
	Totally protected against dust, protected against the effects of temporary immersion between 15cm and 1m
	Totally protected against dust, protected against strong jets of water eg. for use on ship decks
	Protected against dust, protected against water sprayed from all directions
	Protected against solid objects over 1mm, protected against low pressure jets of water
	Protected against solid objects over 1mm, No water ingress protection

## APPLICATION SYMBOLS

The symbols below show the suggested applications the products can be used in.

	Indicator		Display and shelf
	Low depth		Downlight
	Low glare		Floor Wash
	Cove Lighting		Picture lighting
	Recessed Uplight		Wall Washer
	Steps		Yacht lighting
	Pathway		Surface Mounted

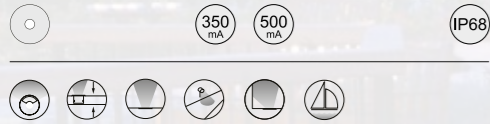


Design: Light Bureau Project: 55 Grosvenor Street Product: LD36



# LD41

## MINIATURE LED UPLIGHT AND WALL LIGHT



Our smallest exterior LED the LD41 is a very tough, compact fitting containing the latest in LED technology. It can be run up to 1.7W, and comes with a choice of beam angles making it suitable for a wide range of applications.



### KEY FEATURES

- > Minimal bezel and recess depth
- > Can be specified with frosted glass for indicator applications, a wide beam works best for this effect
- > Machined from a solid billet of stainless steel 316
- > IP68 up to 2m depth
- > No visible fixings. Fixing options include O-rings and a first fix sleeve or bonding directly into the mounting surface or a ground tube
- > Integral anti-wicking barrier increases protection against moisture ingress due to incorrect IP rated cable connections

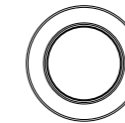
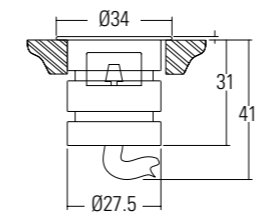
### SPECIFICATION

LED	1 x Cree XPG	
Max drive current	500mA	
Max LED power*	1.7W	
Colour Temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L <sub>100</sub> )	95	147
Lumens per circuit watt*	56	87

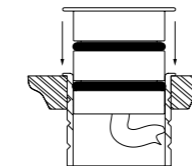
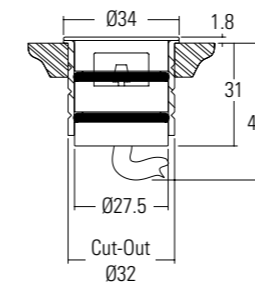
*\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files*

### DIMENSION AND FIXING OPTIONS

*Dimensions in mm*



/480 - O-rings and sleeve



See page 186 for optional ground tube

### ORDER CODES AND OPTIONS

Product Code	LED Colour	Lens Angle	Finish	Fixing
<b>LD41-350-500</b>				
Example: LD41-500 / LW30 / MB / Stainless Steel / 480				

### PRODUCT CODES WITH OUTPUT OPTION

1.2W LED at 350mA	<b>LD41-350</b>
1.7W LED at 500mA	<b>LD41-500</b>

### 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

\*2700K LEDs are available on special order

### BEAM / LENS ANGLE OPTION

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

### BEZEL FINISH OPTION

Stainless steel 316 (standard)	
Polished stainless steel (passivate for marine / underwater environments)	
Paint finish white / black / RAL	

### FIXING OPTION

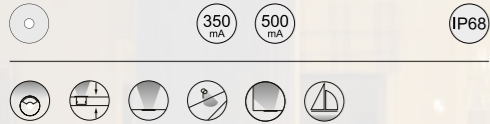
First fix sleeve and O-rings	/480
Ground tube (see page 186 for details)	/480GT

### LED DRIVERS

Use with 350mA or 500mA constant current LED drivers see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available

# LD60

## MINIATURE LED UPLIGHT AND WALL LIGHT



LD60 is a very tough, compact fitting with a larger bezel than the LD41. It can be run up to 1.7W, and comes with a choice of beam angles making it suitable for a wide range of applications.



### KEY FEATURES

- > Larger bezel to hide damage that might be caused to delicate surrounding surfaces when drilling hole cut-out
- > Can be specified with frosted glass for indicator applications, a wide beam works best for this effect
- > Machined from a solid billet of stainless steel 316
- > IP68 up to 2m depth
- > No visible fixings
- > Integral anti-wicking barrier increases protection against moisture ingress due to incorrect IP rated cable connections

### SPECIFICATION

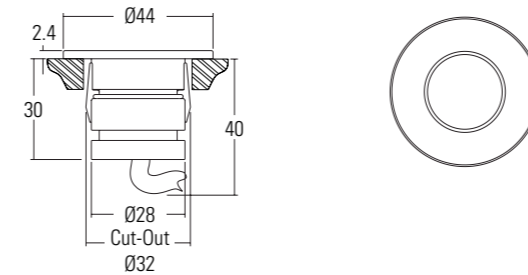
LED	1 x Cree XPG	
Max drive current	500mA	
Max LED power*	1.7W	
Colour Temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L <sub>100</sub> )	95	147
Lumens per circuit watt	56	87

\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files

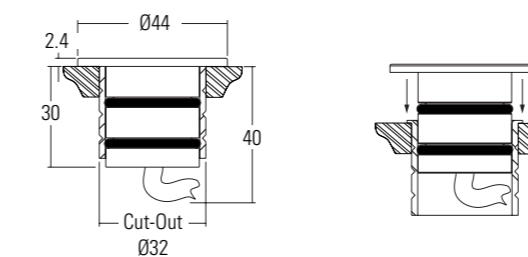
### DIMENSION AND FIXING OPTIONS

*Dimensions in mm*

/SC - Spring clips



/480 - O-rings and sleeve



See page 186 for optional ground tube

### ORDER CODES AND OPTIONS

Product Code	LED Colour	Lens Angle	Finish	Fixing
<b>LD60-350</b> <b>-500</b>				
Example: LD60-500 / LW30 / MB / Stainless Steel / 480				

### PRODUCT CODES WITH OUTPUT OPTION

1.2W LED at 350mA	<b>LD60-350</b>
1.7W LED at 500mA	<b>LD60-500</b>

### 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

\*2700K LEDs are available on special order

### BEAM / LENS ANGLE OPTION

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

### BEZEL FINISH OPTION

Stainless steel 316 (standard)	
Polished stainless steel (passivate for marine / underwater environments)	
Paint finish white / black / RAL	

### FIXING OPTION

Spring clips	/SC
First fix sleeve and O-rings	/480
Ground tube (see page 186 for details)	/480GT

### LED DRIVERS

Use with 350mA or 500mA constant current LED drivers see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available



# LD43/W/A

## MINIATURE RECESSED LED UPLIGHT



The LD43 packs a lot of features into a very compact fitting. It is based on the LD42 wall light, with a flush glass and walkover bezel. This enables the same look for both wall and floor washing. With its very minimal depth and small cables, it is best suited for interior applications, including bathrooms.

**Please note:** For exterior in-ground applications please use the LD41, LD60, LD43DR, LD56 or LD56T. These have an integral anti wicking barrier as well as having thicker cable which is more suitable for exterior in-ground installations.



### KEY FEATURES

- > Uplighter version of our LD42 wall light
- > Compact size with excellent power
- > Soft contoured beams from a range of optics
- > Very minimal depth
- > Recessed LED position for reduced glare
- > LD43W has an integral glare shield
- > LD43A has an integral glare shield and 20° tilt film to angle the light towards the lit surface and further reduce glare
- > Hard anodised body with stainless steel 316 bezel
- > Hidden fixing options include spring clips or O-rings and a first fix sleeve

### SPECIFICATION

LED	1 x Cree XPG	
Max drive current	500mA	
Max LED power*	1.7W	
Colour temperature	3000K	5000K
CRI (typical)	93	80
Delivered lumens (L <sub>100</sub> )	95	147
Lumens per circuit watt	56	87

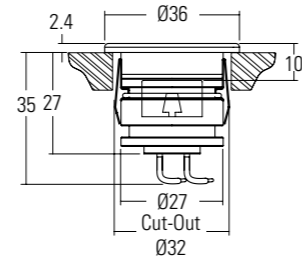
*\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files*

Design: Brilliant Lighting Project: Private Residence Product: LD60

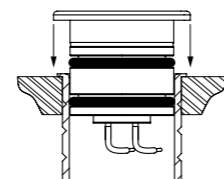
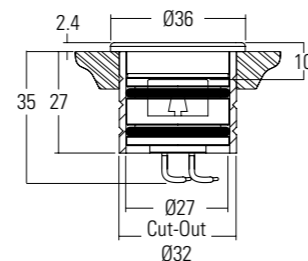


**DIMENSION AND FIXING OPTIONS** *Dimensions in mm*

/SC - Spring clip fixing



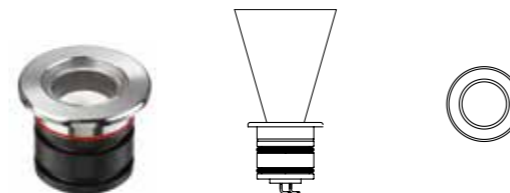
/480 - O-rings and sleeve  
A more robust and water-tight method of fixing, for in ground applications.



**BODY OPTIONS**

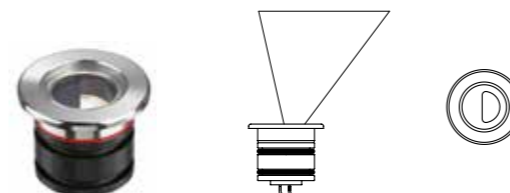
LD43

Lens and LED assembly are recessed into the body by 10mm.



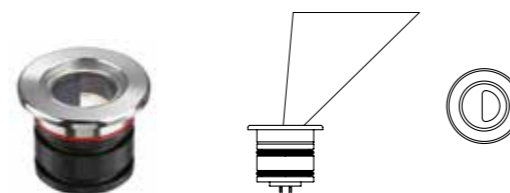
LD43W

Body has a machined half moon in front of the lens to reduce glare. Please note that the oval lens can not be used in this or the LD43A.



LD43A

Same as the LD43W but with an integral 20° refractor film which angles the light towards the surface to be lit. This is particularly useful when the fitting has to be spaced away from the lit surface.



**ORDER CODES AND OPTIONS**

Product Code	LED Colour	Lens Angle	Finish	Fixing
<b>LD43_-350</b> <b>-500</b>				
Example: LD43A-500 / LW30 / MB / Stainless Steel / 480				

**PRODUCT CODES WITH OUTPUT OPTION**

1.2W LED at 350mA	<b>LD43-350</b> <b>LD43W-350</b> <b>LD43A-350</b>
1.7W LED at 500mA	<b>LD43-500</b> <b>LD43W-500</b> <b>LD43A-500</b>

**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

\*2700K LEDs are available on special order

**BEAM / LENS ANGLE OPTION**

12° narrow spot	/NB
31° medium	/MB
48° wide	/WB
36° x 12° oval (only available on the LD43)	/OB

**BEZEL FINISH OPTION**

- Stainless steel 316 (standard)
- Polished stainless steel (passivate for marine environments)
- Paint finish white / black / RAL
- Antique bronze (flamed solid bronze)

**FIXING OPTION**

Spring clips	/SC
First fix sleeve and O-rings	/480

**LED DRIVERS**

Use with 350mA or 500mA constant current LED drivers see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available



# LD18

## TILTED EXTERIOR LED FLOOR AND WALL WASHER



LD18 is ideal for projects where a more industrial look with visible fixings is required. It features the latest in LED technology and has a very shallow recess depth. The LED and optics are tilted at 17° to focus the light on the lit surface, and reduce light spill.



### KEY FEATURES

- > LED and lens assembly tilted at 17° within a black anodised aluminium body
- > Tilted beam angle makes it an ideal solution for floor and wall washing
- > Can be mounted as an uplight or wall light
- > Integral anti wicking barrier increases protection against moisture ingress due to incorrect IP rated cable connections
- > For yacht exteriors the body can be manufactured from stainless steel (max 500mA 1.7W, LD18-500)
- > Not designed for permanent submersion, please use our LD242A, LD41, and LD60.

### SPECIFICATION

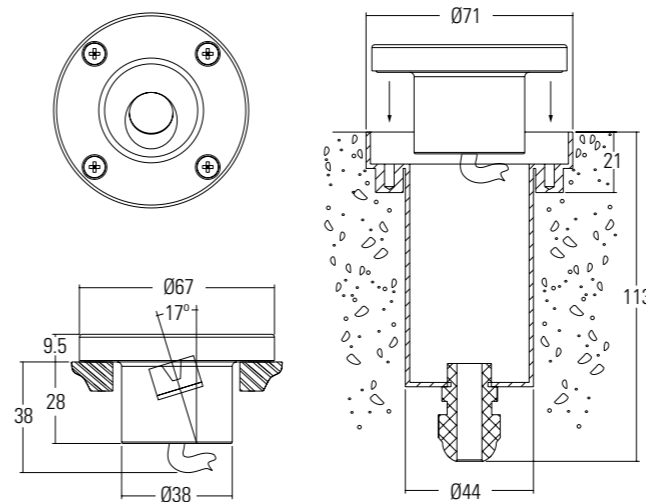
LED	1 x Cree XPG	
Max drive current	700mA	
Max LED power*	2.4W	
Colour Temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L <sub>100</sub> )	114	190
Lumens per circuit watt	48	79
	55 (1.7W)	90 (1.7W)

\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files

### DIMENSION AND FIXING OPTIONS

Dimensions in mm

Fixing is by removing the bezel, and /474 - Concrete housing  
then 4 screws go through the body.



### ORDER CODES AND OPTIONS

Product Code	LED Colour	Lens Angle	Finish	Fixing
<b>LD18-350</b>				
<b>-500</b>				
<b>-700</b>				
Example: LD18-700 / LW30 / MB / Stainless Steel / 474				

### PRODUCT CODES WITH OUTPUT OPTION

1.2W LED at 350mA	<b>LD18-350</b>
1.7W LED at 500mA	<b>LD18-500</b>
2.4W LED at 700mA	<b>LD18-700</b>

### 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

\*2700K LEDs are available on special order

### BEAM / LENS ANGLE OPTION

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

### BEZEL FINISH OPTION

Stainless steel 316 (standard)	
Polished stainless steel (passivate for marine environments)	
Paint finish white / black / RAL	

### FIXING OPTION

Concrete housing	/474
------------------	------

### LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available

# LD43DR

## MINIATURE DEEP RECESSED LED UPLIGHT

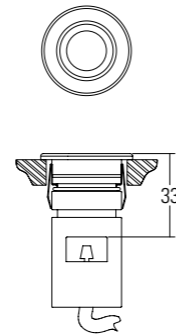


The LD43DR has a very deep recessed LED position with a small aperture, resulting in an uplight with little or no glare. The trade off is a beam which is quite hard on the edges, but makes it ideal for lighting doorways or narrow corridors.



### KEY FEATURES

- > LED and lens assembly deep recessed within a matt black anodised body for reduced glare
- > Only available with a narrow 12° optic due to the size of the aperture
- > No visible fixings. Options include spring fixing clips or O-rings and a first fix sleeve
- > Can be used as an uplighter or downlighter
- > Integral anti wicking barrier increases protection against moisture ingress due to incorrect IP rated cable connections
- > Optional glare shield accessory for even less glare
- > Range of bezel finishes
- > Not designed for permanent submersion, please use our LD242A, LD41, and LD60.



### SPECIFICATION

LED	1 x Cree XPG	
Max drive current	700mA	
Max LED power*	2.4W	
Colour Temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L <sub>100</sub> )	119	184
Lumens per circuit watt	50	77
	56 (1.7W)	87 (1.7W)

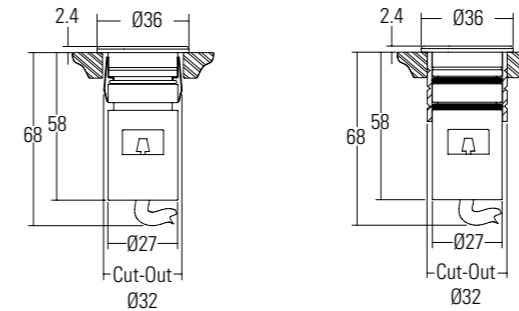
\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files

### DIMENSION AND FIXING OPTIONS

Dimensions in mm

/SC - Spring clip fixing  
Useful for plinth or downlight applications.

/480 - O-rings and sleeve  
A more robust and water tight method of fixing, for in ground applications.



### ACCESSORIES

/GS - Glare shield  
An optional glare shield is available to further reduce glare from the LED and optic. This is useful in narrow details where people are going to be directly over the fitting. This does not reduce the light on the lit surface (wall) but will cut out some light onto the ceiling.



### ORDER CODES AND OPTIONS

Product Code	LED Colour	Lens Angle	Finish	Accessory	Fixing
<b>LD43DR-350</b>					
<b>-500</b>					
<b>-700</b>					
Example: LD43DR-700 / LW30 / NB / Stainless Steel / GS / 480					

### PRODUCT CODES WITH OUTPUT OPTION

1.2W LED at 350mA	<b>LD43DR-350</b>
1.7W LED at 500mA	<b>LD43DR-500</b>
2.4W LED at 700mA	<b>LD43DR-700</b>

### 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

\*2700K LEDs are available on special order

### BEAM / LENS ANGLE OPTION

12° narrow spot	/NB
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### BEZEL FINISH OPTION

Stainless steel 316	
Polished stainless steel (passivate for marine environments)	
Paint finish white / black / RAL	
Antique Bronze (flamed solid bronze)	

### ACCESSORIES

Glare shield	/GS
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### FIXING OPTION

Spring clips	/SC
First fix sleeve and O-rings	/480
Ground tube (see page 186 for details)	/480GT

### LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available



# LD56

LOW GLARE INTERIOR/EXTERIOR IN GROUND LED UPLIGHTER



The LD56 packs a lot of features into a very compact product. It is an incredibly versatile LED uplighter which has been used in projects all over the world in a multitude of applications. The LED is set back for reduced glare, whilst the optics offer fantastic beam shape and spread. This is a very tough, high quality fitting, machined from high grade materials.



## KEY FEATURES

- > Excellent diffused beam shape from a range of optics
- > Low glare with the LED and lens assembly recessed within a black anodised body
- > Optional glare shield accessory
- > Typical 93 CRI in 3000K warm white
- > No visible fixings. Options include spring fixing clips, O-rings and a first fix sleeve and a ground tube
- > Can be used as an uplighter or downlighter
- > Integral anti wicking barrier increases protection against moisture ingress due to incorrect IP rated cable connections
- > Range of bezel finishes available
- > Variable output options
- > Not designed for permanent submersion, please use our LD242A, LD41, and LD60

## SPECIFICATION

LED	1 x Cree XPG	
Max drive current	700mA	
Max LED power*	2.4W	
Colour Temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L <sub>100</sub> )	123	191
Lumens per circuit watt	51	79
	58 (1.7W)	89 (1.7W)

*\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files*







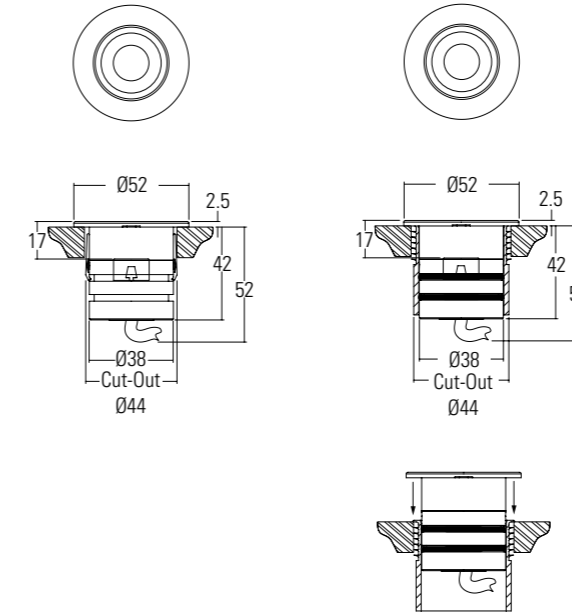
Design: Elektra Lighting Project: Private residence Product: LD56

## DIMENSION AND FIXING OPTIONS

Dimensions in mm

/SC - Spring clip fixing  
Useful for plinth or downlight applications.

/476 - O-rings and sleeve  
A more robust and water tight method of fixing, for in ground applications.



See page 186 for optional ground tube

## ACCESSORIES

/GS56 - Glare shield (not available with oval beam lens)  
An optional glare shield is available to further reduce glare from the LED and optic. This is useful in narrow details where people are going to be directly over the fitting. This does not reduce the light on the lit surface (wall) but will cut out some light onto the ceiling.



## ORDER CODES AND OPTIONS

Product Code	LED Colour	Lens Angle	Finish	Accessory	Fixing
<b>LD56-350</b>					
<b>-500</b>					
<b>-700</b>					

Example: LD56-700 / LW30 / MB / Stainless Steel / GS56 / 476

## PRODUCT CODES WITH OUTPUT OPTION

1.2W LED at 350mA	<b>LD56-350</b>
1.7W LED at 500mA	<b>LD56-500</b>
2.4W LED at 700mA	<b>LD56-700</b>

## 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

\*2700K LEDs are available on special order

## BEAM / LENS ANGLE OPTION

12° narrow spot	/NB
31° medium	/MB
48° wide	/WB
36° x 12° oval (not available with glare shield)	/OB

## BEZEL FINISH OPTION

Stainless steel 316
Polished stainless steel (passivate for marine environments)
Paint finish white / black / RAL
Antique Bronze (flamed solid bronze)

## ACCESSORIES

Glare shield	/GS56
--------------	-------

## FIXING OPTION

Spring clips	/SC
First fix sleeve and O-rings	/476
Ground tube (see page 186 for details)	/476GT

## LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available



# LD56T

## LOW GLARE TILTED EXTERIOR IN GROUND LED UPLIGHTER



The LD56T packs a lot of features into a very compact product. It is an incredibly versatile LED uplighter which has been used in projects all over the world in a multitude of applications. The LED is angled at 6° to focus the light up a wall or column. It is set back for reduced glare, whilst the optics offer fantastic beam shape and spread. This is a very tough, high quality fitting, machined from high grade materials.



### KEY FEATURES

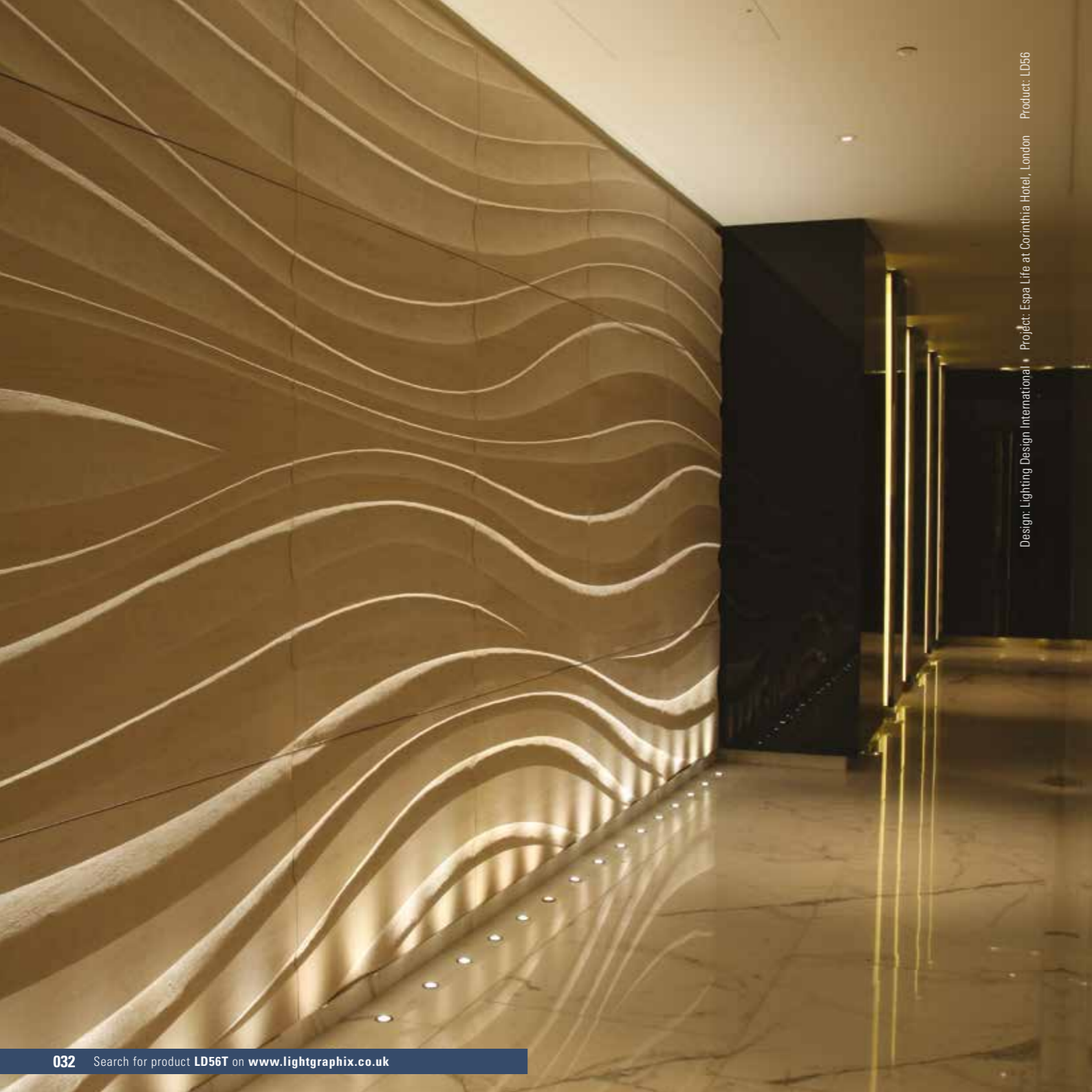
- > LED and lens assembly recessed and tilted at 6° within a black anodised body for reduced glare
- > Tilted beam angle makes it an ideal solution for wall washing and column uplighting
- > Excellent diffused beam shape from a range of optics
- > Optional glare shield accessory
- > No visible fixings. Options include spring fixing clips, O-rings and a first fix sleeve and a ground tube
- > Can be used as an uplighter or downlighter
- > Integral anti wicking barrier increases protection against moisture ingress due to incorrect IP rated cable connections
- > Range of bezel finishes available
- > Variable output options
- > Not designed for permanent submersion, please use our LD242A, LD41, and LD60

### SPECIFICATION

LED	1 x Cree XPG	
Max drive current	700mA	
Max LED power*	2.4W	
Colour Temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L <sub>100</sub> )	123	191
Lumens per circuit watt	51	79
	58 (1.7W)	89 (1.7W)

*\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files*





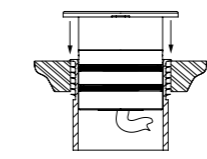
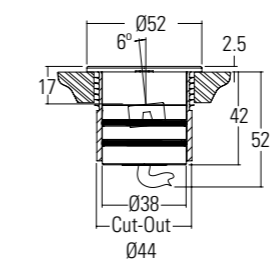
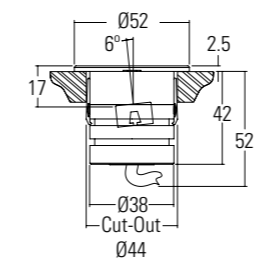
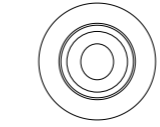
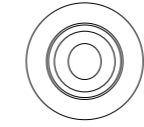
Design: Lighting Design International • Project: Espa Life at Corinthia Hotel, London • Product: LD56

**DIMENSION AND FIXING OPTIONS**

*Dimensions in mm*

**/SC - Spring clip fixing**  
Useful for plinth or downlight applications.

**/476 - O-rings and sleeve**  
A more robust and water tight method of fixing, for in ground applications.



See page 186 for optional ground tube

**ACCESSORIES**

**/GS56 - Glare shield (not available with oval beam lens)**  
An optional glare shield is available for the LD56T to further reduce glare from the LED and optic. This does not reduce the light on the lit surface (wall) but will cut out some light onto the ceiling. Consider the LD56 with glare shield as this is also very low glare but has a higher throw of light up the wall compared to the LD56T.



**ORDER CODES AND OPTIONS**

Product Code	LED Colour	Lens Angle	Finish	Accessory	Fixing
<b>LD56T-350</b>					
<b>-500</b>					
<b>-700</b>					

Example: LD56T-700 / LW30 / MB / Stainless Steel / 476

**PRODUCT CODES WITH OUTPUT OPTION**

1.2W LED at 350mA	<b>LD56T-350</b>
1.7W LED at 500mA	<b>LD56T-500</b>
2.4W LED at 700mA	<b>LD56T-700</b>

**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

\*2700K LEDs are available on special order

**BEAM / LENS ANGLE OPTION**

12° narrow spot	/NB
31° medium	/MB
48° wide	/WB
36° x 12° oval (not available with glare shield)	/OB

**BEZEL FINISH OPTION**

- Stainless steel 316
- Polished stainless steel (passivate for marine environments)
- Paint finish white / black / RAL
- Antique Bronze (flamed solid bronze)

**ACCESSORIES**

Glare shield	/GS56
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**FIXING OPTION**

Spring clips	/SC
First fix sleeve and O-rings	/476
Ground tube (see page 186 for details)	/476GT

**LED DRIVERS**

Use with 350mA, 500mA or 700mA constant current LED drivers see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available



# LD56RGB

LOW GLARE EXTERIOR COLOUR CHANGE LED UPLIGHTER



350 mA

IP68



This is a very tough, compact, in-ground RGB LED uplighter. A slightly longer body than the single colour LD56, it features the latest tri chip LED technology offering increased output and efficiencies. The single optic offers good colour mixing and no multiple shadows.

**Design tip:** The 30° medium beam optic is the best for colour mixing. The narrow 12° can be used if the lighting scheme does not involve mixing of the RGB to create a colour, or if the surface being washed is a reasonable distance away allowing the colour to mix.



Product: LD151 RGB  
Project: Buddha Bar, London  
Design: Into Lighting

## KEY FEATURES

- > Recessed LED and optic for low glare
- > Single LED optic allows colours to mix at the source, with smoother RGB changing
- > No multiple shadows
- > Fixing options include spring fixing clips, O-rings and a first fix sleeve and a ground tube
- > Range of bezel finishes
- > Not designed for permanent submersion

## SPECIFICATION

LED	1 x Cree XML RGB
Max drive current	350mA
Max LED power*	3.6W

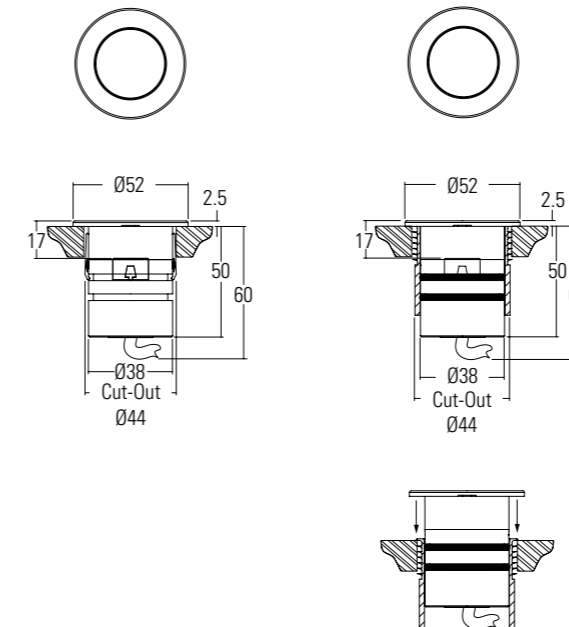
*\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information*

## DIMENSION AND FIXING OPTIONS

*Dimensions in mm*

/SC - Spring clips

/476 - O-rings and sleeve



## ORDER CODES AND OPTIONS

Product Code	Lens Angle	Bezel Finish	Fixing
<b>LD56RGB</b>			
Example: LD56RGB / MB / Stainless Steel / 476			

### BEAM / LENS ANGLE OPTION

12° Narrow spot	/NB
30° Medium (best RGB colour mixing performance)	/MB

### BEZEL FINISH OPTION

Stainless steel 316  
Polished stainless steel (passivate for marine environments)  
Paint finish white / black / RAL  
Antique Bronze (flamed solid bronze)

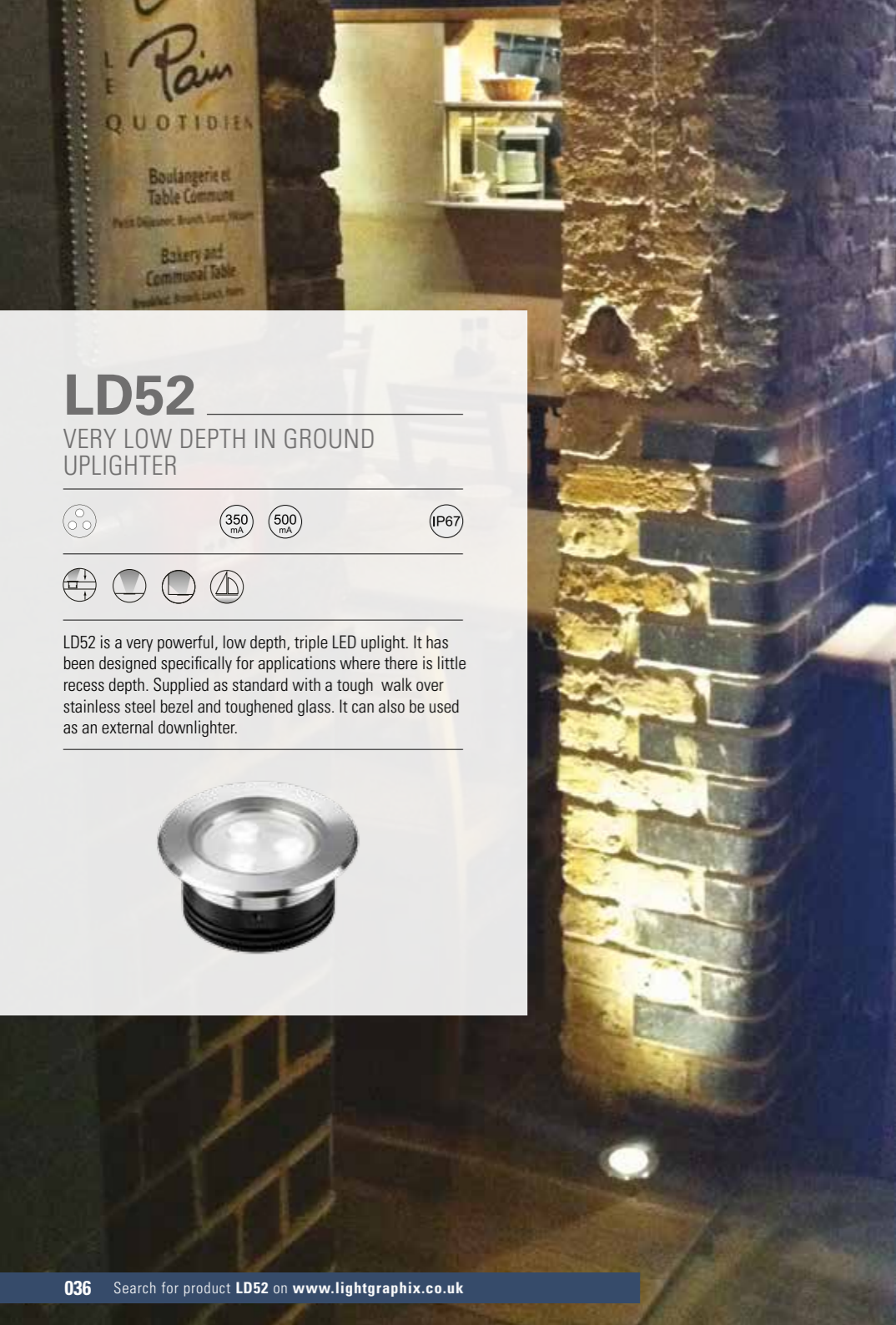
### FIXING OPTION

Spring clips	/SC
First fix sleeve and O-rings	/476
Ground tube (see page 186 for details)	/476GT

### LED DRIVERS

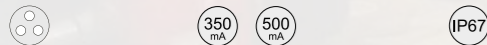
Use with 350mA constant current LED drivers see page 188  
1-10V, DMX, and DALI dimmable drivers are available





# LD52

VERY LOW DEPTH IN GROUND  
UPLIGHTER



LD52 is a very powerful, low depth, triple LED uplight. It has been designed specifically for applications where there is little recess depth. Supplied as standard with a tough walk over stainless steel bezel and toughened glass. It can also be used as an external downlighter.



## KEY FEATURES

- > High efficiency optics guarantee excellent beam spread and shape, with 3 beam angles available
- > Fixing is by 3 spring clips or by the /484S first fix sleeve and O-rings; this provides a watertight seal ideal for external applications
- > Range of bezel finish options
- > LD52 can be run up to a current of 500mA (5.1W) at an ambient temperature of 45°C
- > Can be used as an external downlighter

## SPECIFICATION

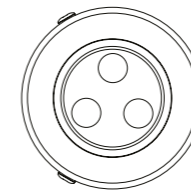
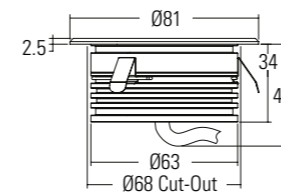
LED	3 x Cree XPG	
Max drive current	500mA	
Max LED power*	5.1W	
Colour Temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L <sub>100</sub> )	282	437
Lumens per circuit watt	59	91

\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files

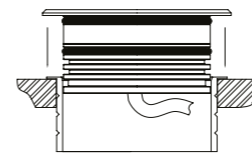
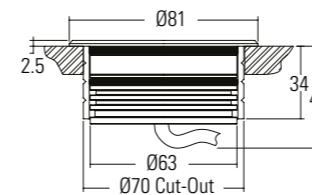
## DIMENSION AND FIXING OPTIONS

Dimensions in mm

/SC - Spring clips



/484S - First fix sleeve with O rings



## ORDER CODES AND OPTIONS

Product Code	LED Colour	Lens Angle	Finish	Fixing
<b>LD52-350-500</b>				
Example: LD52-500 / LW30 / MB / IP54 / Powder coated white / SC				

## PRODUCT CODES WITH OUTPUT OPTION

3.6W LED at 350mA	<b>LD52-350</b>
5.1W LED at 500mA	<b>LD52-500</b>

## 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

\*2700K LEDs are available on special order

## BEAM / LENS ANGLE OPTION

18° narrow spot	/NB
25° medium	/MB
36° wide	/WB

## BEZEL FINISH OPTION

- Stainless steel 316
- Polished stainless steel (passivate for marine environments)
- Paint finish white / black / RAL
- Flamed solid bronze (antique finish)

## FIXING OPTION

Spring Clips	/SC
First fix sleeve and O-rings	/484S

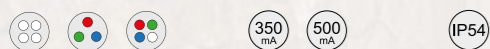
## LED DRIVERS

Use with 350mA or 500mA constant current LED drivers. Please see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available



# LD150

## HIGH POWER INTERIOR LED UPLIGHTER



A very powerful uplighter for its size and depth. The LD150 has been designed specifically to produce low glare illumination to walls and columns. It can be used for a wide range of project styles with a minimal aesthetic and no visible fixings. This is a very tough, high quality fitting, machined from high grade materials ensuring excellent thermal and light output performance.



### KEY FEATURES

- > LED and lens assembly recessed within a black anodised body for reduced glare
- > Glare shield developed to minimise the view of the intense light source without affecting the wash of light on the wall/column
- > Single optic produces a very consistent beam with no multiple shadows
- > Tight 10° spot is available for lighting columns and arches or a 15°x 30° spreader lens which is ideal for wall washing
- > No visible fixings. Fixing is by mounting directly into a cut out with the soft silicon seal, using the fixing sleeve, or the concrete housing with optional integral driver
- > RGBW LED option uses a larger optic, for a premixed light beam immediately adjacent to the fitting
- > Range of bezel finish options

### SPECIFICATION

LED	1 x Cree MKR 4 die LED	
Max drive current	500mA	
Max LED power*	7W (6.3W nominal)	
Colour temperature	3000K	5000K
CRI (typical)	85	75
Delivered lumens (L <sub>100</sub> )	416	445
Lumens per circuit watt	66	71

*\*LED wattage includes losses associated with using an 85% efficient driver  
Lumen output indicated is without the glare shield. Allow 30% less with glare shield  
See website for more detailed technical information and photometric files*







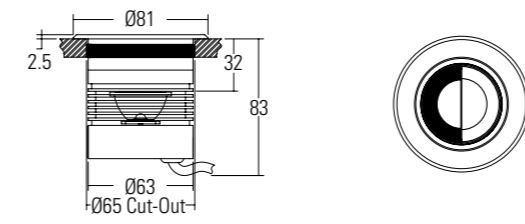
Design: Into Lighting Project: Buddha Bar, London Product: LD151



Design: Lighting Design International Project: Cap Ferrat Product: LD150

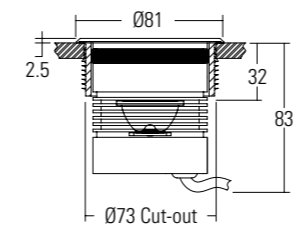
**DIMENSIONS AND FIXING OPTIONS**

Dimensions in mm

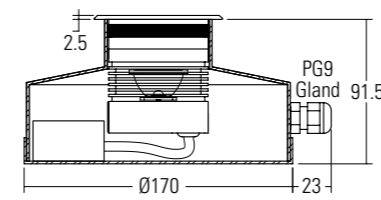


Soft silicon seal holds the fitting into cut-out

/482S - First fix sleeve  
 First fix sleeve is polypropylene  
 Fins on the side lock it into a range of mounting surfaces



/482N - Concrete housing  
 /ID - Optional non dimming driver (single colour only) to fit into housing



**ORDER CODES AND OPTIONS**

Product Code	LED Colour	Lens Angle	Bezel Finish	Accessory
<b>LD150-350</b> <b>-500</b>				
Example: LD150-500 / LW30 / MB / Stainless Steel / 476				

**PRODUCT CODES WITH OUTPUT OPTION**

5W 350mA	<b>LD150-350</b>
7W 500mA	<b>LD150-500</b>

LED COLOUR OPTIONS	SUFFIX
Extra warm white (2700K)*	/LW27
Warm white (3000K)	/LW30
Cool white (5000K)	/LW50
RGBW	/RGBW

\*2700K LEDs are available on special order

**BEAM / LENS ANGLE OPTION**

10° narrow spot	/NB
15° x 30° oval	/OB

RGBW LED comes with a 26° colour mix lens

**BEZEL FINISH OPTION**

- Stainless steel 316
- Polished stainless steel (passivate for marine environments)
- Paint finish white / black / RAL
- Flamed solid bronze (antique finish)

**FIXING ACCESSORIES**

First fix sleeve	/482S
Concrete housing	/482N
with integral driver	/ID

**LED DRIVERS**

Use with 350mA or 500mA constant current LED drivers. Please see page 188  
 Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available



# LD151

## HIGH POWER EXTERIOR LED UPLIGHTER



A very powerful uplighter for its size and depth. The LD151 has been designed specifically to produce low glare illumination to exterior walls and columns. It can be used for a wide range of project styles with a minimal aesthetic and no visible fixings. This is a very tough, high quality fitting, machined from high grade materials ensuring excellent thermal and light output performance.



Design: Green Leaf Lighting Design Project: Private residence Product: LD151

### KEY FEATURES

- > LED and lens assembly recessed within a black anodised body for reduced glare
- > Glare shield developed to minimise the view of the intense light source without affecting the wash of light on the wall/column
- > Single optic produces a very consistent beam with no multiple shadows
- > Tight 10° spot is available for lighting columns and arches or a 15°x 30° spreader lens which is ideal for wall washing
- > No visible fixings. O-rings on the body secure it into a first fix sleeve, creating a water tight seal. A concrete housing and ground tube are also available
- > RGBW LED option uses a larger optic, for a premixed light beam immediately adjacent to the LED
- > Range of bezel finish options

### SPECIFICATION

LED	1 x Cree MKR 4 die LED	
Max drive current	500mA	
Max LED power*	7W (6.3W nominal)	
Colour temperature	3000K	5000K
CRI (typical)	85	75
Delivered lumens (L <sub>100</sub> )	416	445
Lumens per circuit watt	66	71

*\*LED wattage includes losses associated with using an 85% efficient driver  
Lumen output indicated is without the glare shield. Allow 30% less with glare shield  
See website for more detailed technical information and photometric files*







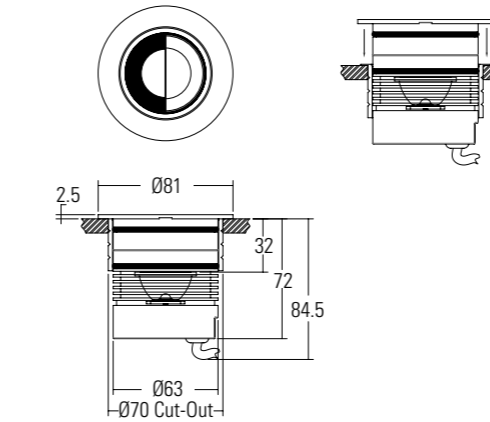
Design: Green Leaf Lighting Design Project: Private residence Product: LD151

## DIMENSIONS AND FIXING OPTIONS

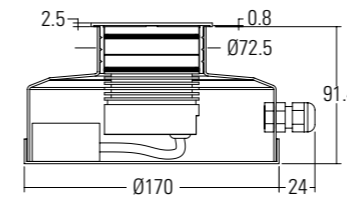
Dimensions in mm

The fitting is supplied as standard with a fixing sleeve; this is bonded into the mounting surface first. The LD151 is secured into the sleeve by 2 O-rings on the body. When pushed into the sleeve it creates a watertight seal.

/484S - First fix sleeve supplied as standard



/484N - Concrete housing  
/ID - Optional non dimming driver (single colour only) to fit into housing



See page 186 for optional ground tube

## ORDER CODES AND OPTIONS

Product Code	LED Colour	Lens Angle	Bezel Finish	Accessory
<b>LD151-350</b> <b>-500</b>				
Example: LD151-350 / LW30 / NB / Stainless Steel / 484N				

### PRODUCT CODES WITH OUTPUT OPTION

5W 350mA	<b>LD151-350</b>
7W 500mA	<b>LD151-500</b>

LED COLOUR OPTIONS	SUFFIX
Extra warm white (2700K)*	/LW27
Warm white (3000K)	/LW30
Cool white (5000K)	/LW50
RGBW	/RGBW

\*2700K LEDs are available on special order

### BEAM / LENS ANGLE OPTION

10° narrow spot	/NB
15° x 30° oval	/OB

RGBW LED comes with a 26° colour mix lens

### BEZEL FINISH OPTION

- Stainless steel 316
- Polished stainless steel (passivate for marine environments)
- Paint finish white / black / RAL
- Flamed solid bronze (antique finish)

### FIXING ACCESSORIES

Comes as standard with /484S first fix sleeve	
Concrete housing	/484N
with integral driver	/ID
Ground tube (see page 186 for details)	/484GT

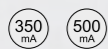
### LED DRIVERS

Use with 350mA or 500mA constant current LED drivers. Please see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available



# LD153

## HIGH POWER EXTERIOR LED UPLIGHTER



A very powerful uplighter for its size and depth. The LD153 has been designed specifically to produce low glare illumination to exterior walls and columns in public areas. The 4 screws in the front allow it to be locked into the mounting surface using a very clever O-ring compression system. This is a very tough, high quality fitting, machined from high grade materials ensuring excellent thermal and light output performance.

**Design tip:** For a screwless version the LD151 has the same output, and uses the same LED and optics as the LD153.



### KEY FEATURES

- > LED and lens assembly recessed within a black anodised body for reduced glare
- > Glare shield developed to minimise the view of the intense light source without affecting the wash of light on the wall/column
- > Single optic produces a very consistent beam with no multiple shadows
- > Tight 10° spot is available for lighting columns and arches or a 15°x 30° spreader lens which is ideal for wall washing
- > 4 screws in the bezel are tightened to expand O-rings on the body and secure it into the first fix sleeve, or concrete housing, creating a water tight seal
- > RGBW LED option uses a larger optic, for a premixed light beam immediately adjacent to the fitting

### SPECIFICATION

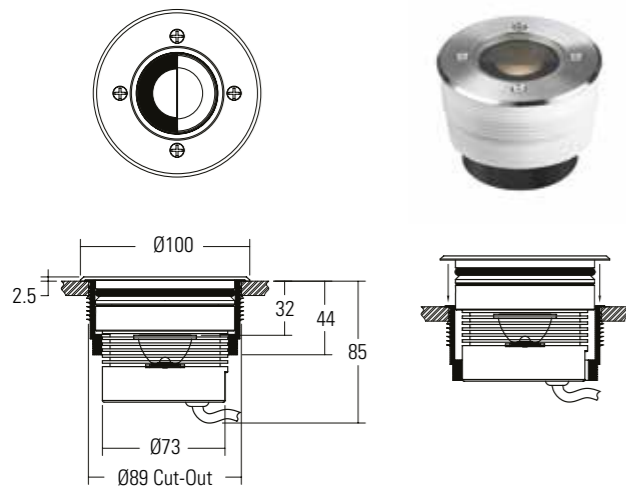
LED	1 x Cree MKR 4 die LED	
Max drive current	500mA	
Max LED power*	7W (6.3W nominal)	
Colour temperature	3000K	5000K
CRI (typical)	85	75
Delivered lumens (L <sub>100</sub> )	416	445
Lumens per circuit watt	66	71

*\*LED wattage includes losses associated with using an 85% efficient driver  
Lumen output indicated is without the glare shield. Allow 30% less with glare shield  
See website for more detailed technical information and photometric files*

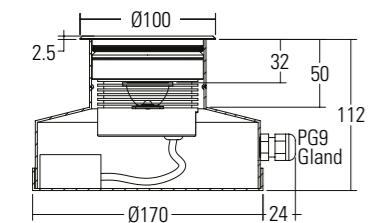


## DIMENSIONS AND FIXING OPTIONS

/483S - First fix sleeve is polypropylene, with a finned top to fix into various surfaces



/483N - Concrete housing  
/ID - Optional non dimming driver (single colour only) to fit into housing



## FIXING MECHANISM

Fitting pushed into housing



Orientate fitting. Then tighten 4 screws



Ring is pulled up and expands the O-ring, locking fitting into the housing



## ORDER CODES AND OPTIONS

Product Code	LED Colour	Lens Angle	Bezel Finish	Accessory
<b>LD153-350</b> <b>-500</b>				
Example: LD153-500 / LW30 / NB / Stainless Steel / 483N				

### PRODUCT CODES WITH OUTPUT OPTION

5W 350mA	<b>LD153-350</b>
7W 500mA	<b>LD153-500</b>

### LED COLOUR OPTIONS

LED Colour	SUFFIX
Extra warm white (2700K)*	/LW27
Warm white (3000K)	/LW30
Cool white (5000K)	/LW50
RGBW	/RGBW

\*2700K LEDs are available on special order

### BEAM / LENS ANGLE OPTION

10° narrow spot	/NB
15° x 30° oval	/OB

RGBW LED comes with a 26° colour mix lens

### BEZEL FINISH OPTION

Stainless steel 316
Polished stainless steel (passivate for marine environments)
Paint finish white / black / RAL
Flamed solid bronze* (antique finish) *To minimum order quantities

### FIXING ACCESSORIES

First fix sleeve	/483S
Concrete housing	/483N
with integral driver	/ID

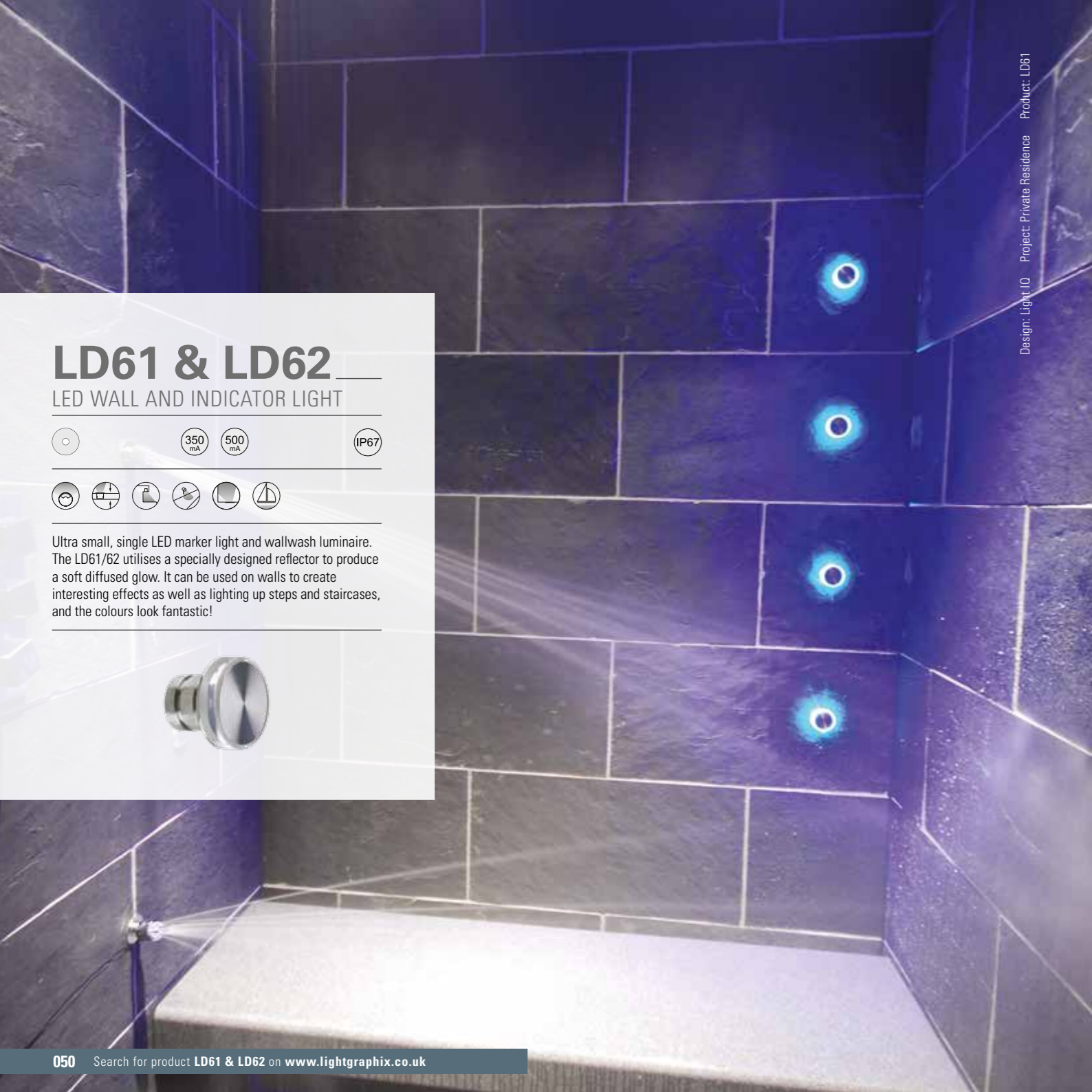
### LED DRIVERS

Use with 350mA or 500mA constant current LED drivers. Please see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available

Product: LD153-350/LWW/10







Design: Light IQ Project: Private Residence Product: LD61

# LD61 & LD62

LED WALL AND INDICATOR LIGHT







Ultra small, single LED marker light and wallwash luminaire. The LD61/62 utilises a specially designed reflector to produce a soft diffused glow. It can be used on walls to create interesting effects as well as lighting up steps and staircases, and the colours look fantastic!



## KEY FEATURES

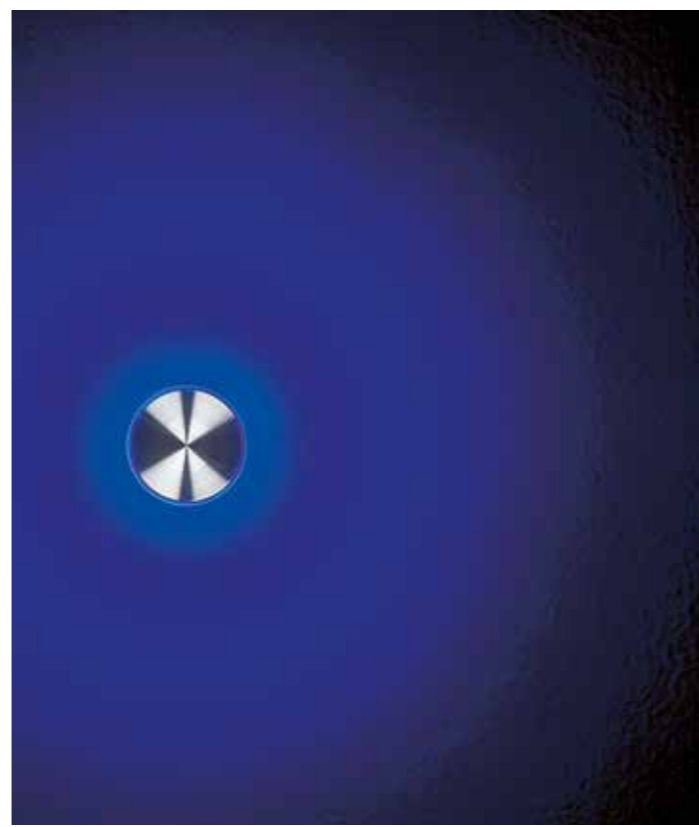
- > High quality machined components
- > No visible fixings
- > Minimal aesthetic
- > LD61 produces a soft 360° angle of illumination
- > LD62 adds a narrow 25° beam to the 360° angle of illumination, making it ideal for illuminating steps or pathways below
- > Integral anti-wicking barrier increases protection against moisture ingress due to incorrect IP rated cable connections (IP connections are still required)
- > Fixing options include spring fixing clips or O-rings and a first fix sleeve
- > Rated IP67 for exterior or interior walls

## SPECIFICATION

LED	1 x Cree XPG
Max drive current	500mA
Max LED power*	1.7W

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

LD61 - 360° illumination



LD62 - 360° + 25° illumination



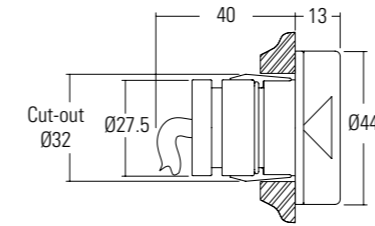


Design: Light IQ Project: Private Residence Product: LD61

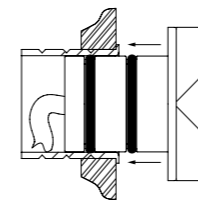
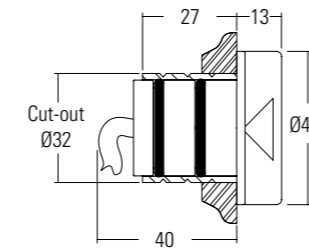
## DIMENSIONS AND FIXING OPTIONS

Dimensions in mm

/SC - Spring clip fixing



/480 - O-rings and sleeve  
This is most suited for wet and exterior environments.



## ORDER CODES AND OPTIONS

Product Code	LED Colour	Finish	Fixing
<b>LD61/62-350-500</b>			
Example: LD61-500 / LW30 / Stainless Steel / 480			

### PRODUCT CODES WITH OUTPUT OPTION

1.2W LED at 350mA **LD61-350**  
**LD62-350**

1.7W LED at 500mA **LD61-500**  
**LD62-500**

### LED COLOUR OPTIONS

LED Colour	SUFFIX
Extra warm white (2700K)*	/LW27
Warm white (3000K)	/LW30
Cool white (5000K)	/LW50
Blue	/LB
Green	/LG
Red	/LR
Amber	/LA

\*2700K LEDs are available on special order

### FINISH OPTIONS

Stainless steel 316  
Polished stainless steel (passivate for marine environments)

### FIXING OPTIONS

Spring clips /SC  
First fix sleeve and O-rings /480

### LED DRIVERS

Use with 350mA or 500mA constant current LED drivers. Please see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available





Product: LD64  
Project: Private Residence  
Design: Brilliant Lighting

## LD64 & LD65

MINIATURE IN GROUND LED  
SURFACE WASHER













Ultra small, robust, single LED marker light and floorwash luminaire. The LD64/65 utilises a specially designed reflector to produce a soft focused beam of light. Available with a single or double output it is ideal for pathways and steps. The LED colours look fantastic!



### KEY FEATURES

- > Manufactured from a single billet of 316 stainless steel
- > No visible fixings
- > Minimal aesthetic
- > LD64 produces a single 120° angle of illumination
- > LD65 produces 2 x 120° angles of illumination
- > Integral anti wicking barrier increases protection against moisture ingress due to incorrect IP rated cable connections
- > Fixing using O-rings and a first fix sleeve
- > Rated IP67 for exterior or interior pathways, staircases and walls

### SPECIFICATION

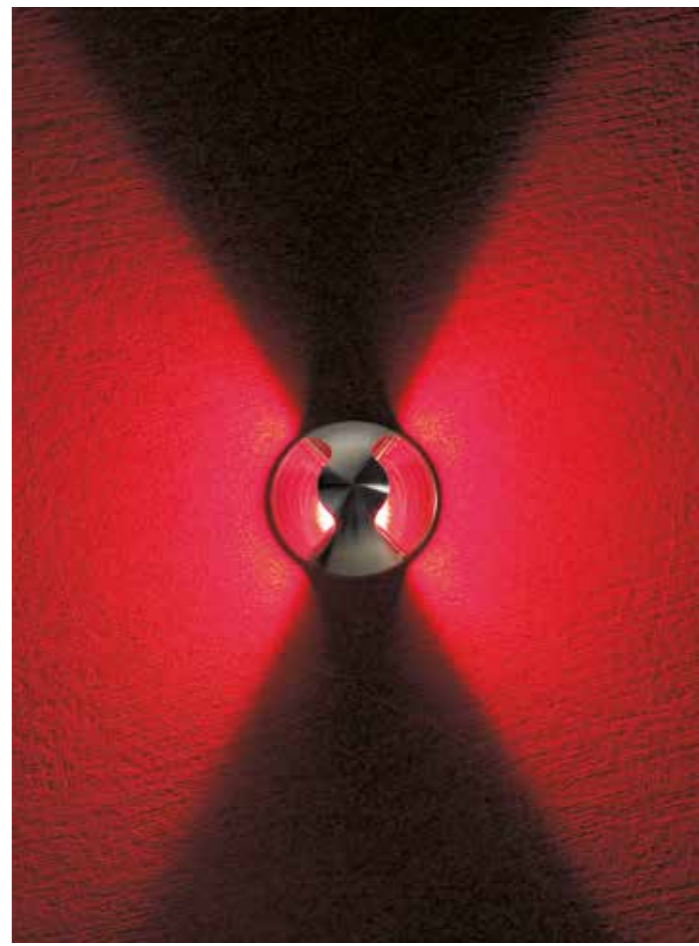
LED	1 x Cree XPG
Max drive current	500mA
Max LED power*	1.7W

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

LD64



LD65





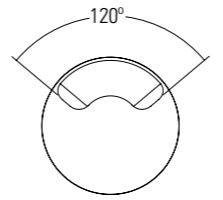


Product: Custom LD64

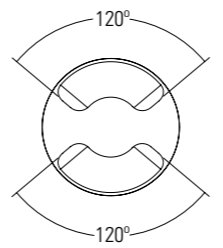
Project: Liverpool One

Design: BBP Lighting Design

LD64



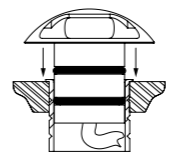
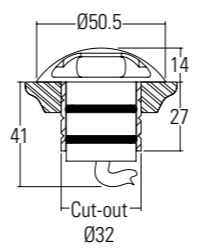
LD65



**DIMENSIONS AND FIXING OPTIONS**

*Dimensions in mm*

/480 - O-rings and sleeve



**ORDER CODES AND OPTIONS**

Product Code	LED Colour	Finish	Fixing
<b>LD64/65-350</b>			
<b>-500</b>			
Example: LD64-500 / LW30 / Stainless Steel / 480			

**PRODUCT CODES WITH OUTPUT OPTION**

1.2W LED at 350mA	<b>LD64-350</b> <b>LD65-350</b>
1.7W LED at 500mA	<b>LD64-500</b> <b>LD65-500</b>

**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

\*2700K LEDs are available on special order

**FINISH OPTIONS**

Stainless steel 316	
Polished stainless steel (passivate for marine environments)	

**FIXING OPTIONS**

First fix sleeve and O-rings	/480
Ground tube (see page 186 for details)	/480GT

**LED DRIVERS**

Use with 350mA or 500mA constant current LED drivers. Please see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available



# LD42/W/A

LOW GLARE MINIATURE LED  
RECESSED WALL LIGHT



350  
mA

500  
mA

IP68



LD42 is a miniature recessed LED wall light, ideal for discreet lighting of steps and pathways. It is a high quality fitting that can be used for interior or exterior applications, including yachts. Low glare is achieved by a recessed lens assembly set back into a black anodised body. Optional half moon glare shield and 20° tilt film further reduce glare.



## KEY FEATURES

- > Very minimal depth and bezel diameter
- > High power for its size
- > High efficiency optics specially designed for LightGraphix guarantee excellent beam spread and shape
- > Recessed LED position for reduced glare
- > Glass fixed with hidden gasket, so no unsightly glue line
- > Optional glare shield (LD42W) and 20° tilt film (LD42A) options available
- > Hidden fixing options include spring clips or O-rings and the /480 first fix sleeve
- > For a 2.4W version please see our LD45 or LD46
- > Not designed for permanent submersion, please use our LD242A, LD41, and LD60

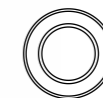
## SPECIFICATION

LED	1 x Cree XPG	
Max drive current	500mA	
Max LED power*	1.7W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L <sub>100</sub> )	95	147
Lumens per circuit watt	56	77

*\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files*

LD42

LD42W & LD42A

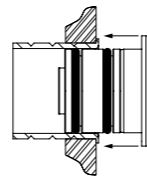
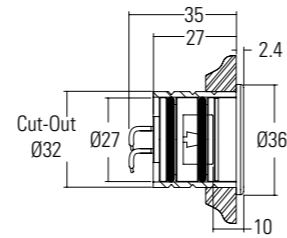




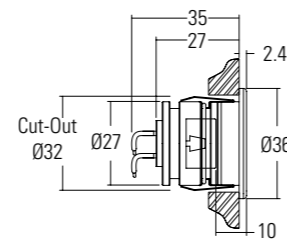
Design: Stan Baxter Lighting Design Project: Private residence Product: LD42W

**DIMENSION AND FIXING OPTIONS** *Dimensions in mm*

/480 - O-rings and sleeve  
A more robust and water-tight method of fixing for external applications.



/SC - Spring clip fixing



**BODY OPTIONS**

**LD42**  
Circular aperture with lens and LED assembly recessed into the body by 10mm.



**LD42W**  
Body has a machined half moon in front of the lens to reduce glare. Please note that the oval lens can not be used in this or the LD42A.



**LD42A**  
Same as the LD42W but with an integral 20° refractor film which angles the light down onto the surface to be lit.



**ORDER CODES AND OPTIONS**

Product Code	LED Colour	Lens Angle	Finish	Fixing
<b>LD42_-350</b> <b>-500</b>				
Example: LD43A-500 / LW30 / MB / Polished Stainless Steel / 480				

**PRODUCT CODES WITH OUTPUT OPTION**

1.2W LED at 350mA	<b>LD42-350</b> <b>LD42W-350</b> <b>LD42A-350</b>
1.7W LED at 500mA	<b>LD42-500</b> <b>LD42W-500</b> <b>LD42A-500</b>

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

\*2700K LEDs are available on special order

BEAM / LENS ANGLE OPTION	SUFFIX
12° narrow spot	/NB
31° medium	/MB
48° wide	/WB
36° x 12° oval (only available on the LD42)	/OB

BEZEL FINISH OPTION	SUFFIX
Stainless steel 316	
Polished stainless steel (passivate for marine environments)	
Paint finish white / black / RAL	
Antique bronze (flamed solid bronze)	

FIXING OPTION	SUFFIX
Spring clips	/SC
First fix sleeve and O-rings	/480

**LED DRIVERS**  
Use with 350mA or 500mA constant current LED drivers see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available



# LD45 & LD46

LOW GLARE INTERIOR/EXTERIOR WALL OR STEP LIGHTS



Available in round or square, the LD45/46 will fit into most architectural styles. Manufactured with a machined stainless steel 316 bezel and black anodized body these can be used for indoor and outdoor use. The compact design with the optic set back makes them ideal for steplighting. A 12° lens will kiss light across the step or 31° lenses to wash light more directly to the edges. Available with a choice of lens angles and LED colours.



## KEY FEATURES

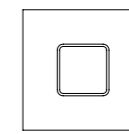
- > LED and lens assembly recessed within a black anodised body for reduced glare
- > High quality machined bezel and body
- > Square and round versions available
- > Glass fixed with hidden gasket, so no unsightly glue line
- > No visible fixings. Options include spring fixing clips or O-rings and a first fix sleeve
- > Can be used for external and internal applications
- > Integral anti-wicking barrier increases protection against moisture ingress due to incorrect IP rated cable connections
- > Range of bezel finish options including stainless steel and paint finishes

## SPECIFICATION

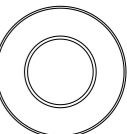
LED	1 x Cree XPG	
Max drive current	700mA	
Max LED power*	2.4W	
Colour Temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L <sub>100</sub> )	126	195
Lumens per circuit watt	53	81
	59 (1.7W)	92 (1.7W)

*\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files*

LD45



LD46





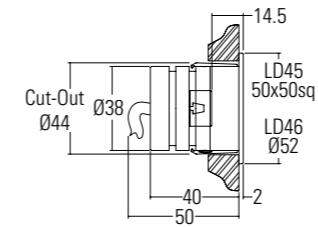


Design: Light IQ Project: Private residence Product: LD48

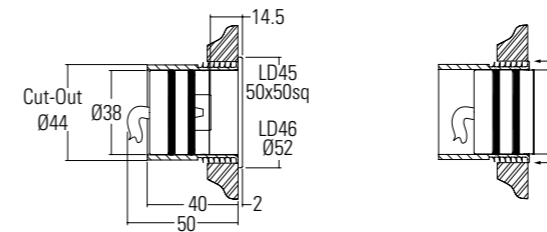
## DIMENSION AND FIXING OPTIONS

Dimensions in mm

/SC - Spring clip fixing  
Useful for most wall mounted applications.



/476 - O-rings and sleeve  
A more robust and water-tight method of fixing, for wet areas.



## ORDER CODES AND OPTIONS

Product Code	LED Colour	Lens Angle	Finish	Fixing
<b>LD45/46-350</b>				
-500				
-700				

Example: LD45-700 / LW30 / MB / Stainless Steel / 476

### PRODUCT CODES WITH OUTPUT OPTION

1.2W LED at 350mA	<b>LD45-350</b> <b>LD46-350</b>
1.7W LED at 500mA	<b>LD45-500</b> <b>LD46-500</b>
2.4W LED at 700mA	<b>LD45-700</b> <b>LD46-700</b>

### 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

\*2700K LEDs are available on special order

### BEAM / LENS ANGLE OPTION

12° narrow spot	/NB
31° medium	/MB
48° wide	/WB
36° x 12° oval (LD46 only)	/OB

### BEZEL FINISH OPTION

Stainless steel 316  
Polished stainless steel (passivate for marine environments)  
Paint finish white / black / RAL

### FIXING OPTION

Spring clips	/SC
First fix sleeve and O-rings	/476

### LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available



# LD47 & LD48

LOW GLARE TILTED INTERIOR/  
EXTERIOR WALL OR STEP LIGHTS



Available in round or square the LD47/48 will fit into most architectural styles. The lens assembly is set back and inclined by 20° for a floor wash illumination and minimal glare. Manufactured with a machined stainless steel 316 bezel and black anodized body these can be used for indoor and outdoor use.



## KEY FEATURES

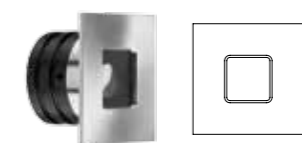
- > LED and lens assembly recessed and tilted by 20° within a black anodised body for reduced glare
- > High quality machined bezel and body
- > Square and round versions available
- > Glass fixed with hidden gasket, so no unsightly glue line
- > No visible fixings. Options include spring fixing clips or O-rings and a first fix sleeve
- > Can be used for external and internal applications
- > Integral anti-wicking barrier increases protection against moisture ingress due to incorrect IP rated cable connections
- > Range of bezel finish options including stainless steel and paint finishes

## SPECIFICATION

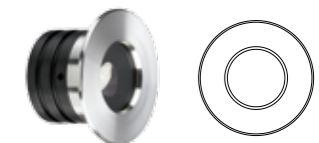
LED	1 x Cree XPG	
Max drive current	700mA	
Max LED power*	2.4W	
Colour Temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L <sub>100</sub> )	126	195
Lumens per circuit watt	53	81
	59 (1.7W)	92 (1.7W)

*\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files*

LD47



LD48



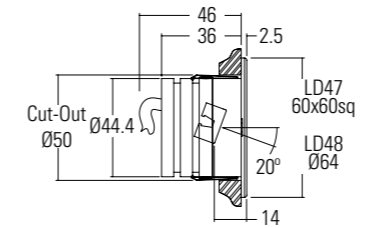


Design: DesignPlusLight Project: Private Residence Product: LD47

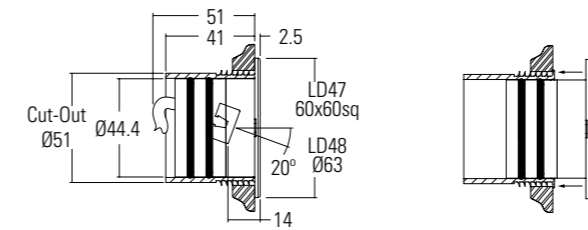
**DIMENSION AND FIXING OPTIONS**

*Dimensions in mm*

/SC - Spring clip fixing  
Useful for most wall mounted applications.



/477 - O-rings and sleeve  
A more robust and water-tight method of fixing, for wet areas.



**ORDER CODES AND OPTIONS**

Product Code	LED Colour	Lens Angle	Finish	Fixing
<b>LD47/48-350</b>				
-500				
-700				

Example: LD47-700 / LW30 / MB / Stainless Steel / 477

PRODUCT CODES WITH OUTPUT OPTION

1.2W LED at 350mA	<b>LD47-350</b> <b>LD48-350</b>
1.7W LED at 500mA	<b>LD47-500</b> <b>LD48-500</b>
2.4W LED at 700mA	<b>LD47-700</b> <b>LD48-700</b>

LED COLOUR OPTIONS

Extra warm white (2700K)*	SUFFIX /LW27
Warm white (3000K)	/LW30
Cool white (5000K)	/LW50
Blue	/LB
Green	/LG
Red	/LR
Amber	/LA

\*2700K LEDs are available on special order

BEAM / LENS ANGLE OPTION

12° narrow spot	/NB
31° medium	/MB
48° wide	/WB

BEZEL FINISH OPTION

- Stainless steel 316
- Polished stainless steel (passivate for marine environments)
- Paint finish white / black / RAL

FIXING OPTION

Spring clips	/SC
First fix sleeve and O-rings	/477

LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available



# LD57

## LOW GLARE LED WALL LIGHT (NO LENS)



Specially produced for a bulwark on a yacht, the LD57 was designed to have no glare. The LED is hidden from view by a black anodized shield and whilst the lack of a lens means output is lower, it is adequate for gentle deck and step lighting without any glare from the lightsource. We recommend the LD57 be run at 700mA (LD57-700).



Project: Private Residence Product: LD56 and LD57 square special Design: DesignPlusLight

### KEY FEATURES

- > LED deep recessed within a black anodised body for no glare
- > No optic or reflector
- > Minimal aesthetic
- > Typical 93 CRI in 3000K warm white
- > No visible fixings. Options include spring fixing clips or O-rings and a first fix sleeve
- > Integral anti-wicking barrier increases protection against moisture ingress due to incorrect IP rated cable connections

### SPECIFICATION

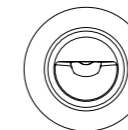
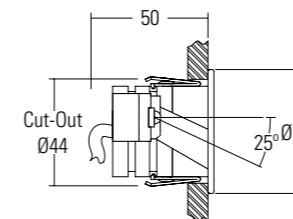
LED	1 x Cree XPG	
Max drive current	700mA	
Max LED power*	2.4W	
Colour Temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L <sub>100</sub> )	No data	
Lumens per circuit watt	No data	

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

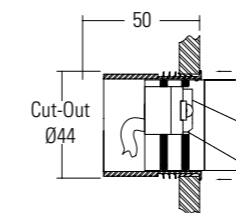
### DIMENSION AND FIXING OPTIONS

Dimensions in mm

/SC - Spring clip fixing  
Useful for most wall mounted applications.



/476 - O-rings and sleeve  
A more robust and water tight method of fixing, for exterior applications.



### ORDER CODES AND OPTIONS

Product Code	LED Colour	Finish	Fixing
<b>LD57-350</b>			
<b>-500</b>			
<b>-700</b>			
Example: LD57-700 / LW30 / Stainless Steel / 476			

### PRODUCT CODES WITH OUTPUT OPTION

1.2W LED at 350mA	<b>LD57-350</b>
1.7W LED at 500mA	<b>LD57-500</b>
2.4W LED at 700mA	<b>LD57-700</b>

### 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

\*2700K LEDs are available on special order

### BEZEL FINISH OPTION

Stainless steel 316  
Polished stainless steel (passivate for marine environments)  
Paint finish white / black / RAL  
Solid bronze or antique bronze (flamed solid bronze)

### FIXING OPTION

Spring clips	/SC
First fix sleeve and O-rings	/476

### LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available

# LD242A

## UNDERWATER LED LIGHT



The LD242A has been designed specifically for underwater applications. It is manufactured from a single billet of 316 stainless steel, the LED is potted and the glass is UV and silicon sealed. The bezel is polished and the body is passivated for extra protection against chlorine or salt water.



### KEY FEATURES

- > Integral anti-wicking barrier increases protection against moisture ingress due to incorrect IP rated cable connections
- > No visible fixings
- > First fix sleeve and O-rings to seal fitting into mounting surface
- > Body/bezel is polished and passivated for pool and sea environments
- > Available with 1-10V, DMX or DALI drivers
- > Please specify with long cables to enable connections to be done in a dry location

### SPECIFICATION

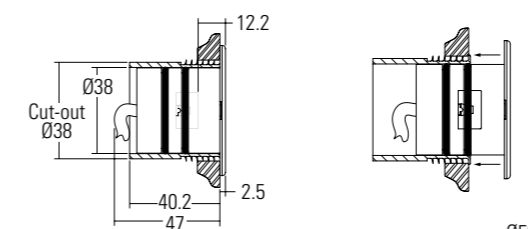
LED	1 x Cree XPG	
Max drive current	700mA	
Max LED power*	2.4W	
Colour Temperature	3000K	5000K
CRI (typical)	93	80
Delivered lumens (L <sub>100</sub> )	123	191
Lumens per circuit watt	51	79
	58 (1.7W)	89 (1.7W)

\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files

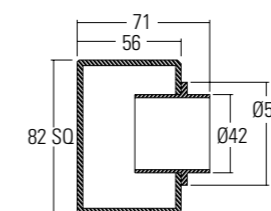
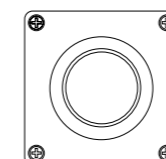
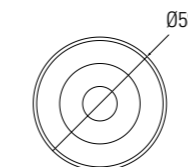
### DIMENSION AND FIXING OPTIONS

Dimensions in mm

/476 - Fixing sleeve and O-rings supplied as standard



/242N - Concrete housing



### ORDER CODES AND OPTIONS

Product Code	LED Colour	Lens Angle	Finish	Fixing
<b>LD242A-350</b>				
-500				
-700				

Example: LD242A-700 / LW30 / MB /Stainless Steel / 476

### PRODUCT CODES WITH OUTPUT OPTION

1.2W LED at 350mA	<b>LD242A-350</b>
1.7W LED at 500mA	<b>LD242A-500</b>
2.4W LED at 700mA	<b>LD242A-700</b>

### 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

\*2700K LEDs are available on special order

### BEAM / LENS ANGLE OPTION

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

### BEZEL FINISH OPTION

Polished and passivated stainless steel 316 (for marine environments)

### FIXING OPTION

First fix sleeve and O-rings (supplied as standard)	/476
Concrete housing	/242N

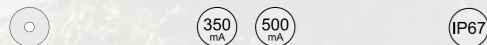
### LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available



# LD170

## HIGH POWER LED WALL LIGHT



The LD170 recessed wall light has been designed to create glare-free, broad and even illumination to steps and pathways. This is a very tough, high quality fitting, suitable for a wide range of applications.



Design: Maurice Brill Lighting Design Project: 20 Fenchurch Street, Sky Garden Product: Custom LD170

### KEY FEATURES

- > LED and lens assembly recessed within a black anodised body for reduced glare
- > Integral glare baffle which minimises the light above the horizontal
- > Single optic produces a very consistent beam with no multiple shadows
- > Angled kick glass focuses light down to where it is needed
- > No visible fixings. Fixing is by O-rings and a first fix sleeve which is bonded into the mounting surface
- > O-rings allow alignment with lit surface
- > IP67 for exterior and interior projects
- > Range of bezel finish options

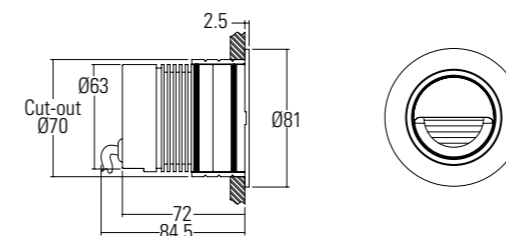
### SPECIFICATION

LED	1 x Cree MKR 4 die LED	
Max drive current	500mA	
Max LED power*	7W (6.3W nominal)	
Colour Temperature	3000K	5000K
CRI (typical)	85	80
Delivered lumens (L <sub>100</sub> )	165	210

\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files

### DIMENSIONS AND FIXING OPTIONS

Dimensions in mm



The fitting is supplied as standard with a fixing sleeve; this is bonded into the mounting surface first. It is secured into the sleeve by 2 O-rings on the body. When pushed into the sleeve it creates a watertight seal.



### ORDER CODES AND OPTIONS

Product Code	LED Colour	Finish
<b>LD170-350</b> <b>-500</b>		
Example: LD170-500 / LW30 / Brushed stainless steel		

### PRODUCT CODES WITH OUTPUT OPTION

5W LED at 350mA	<b>LD170-350</b>
7W LED at 500mA	<b>LD170-350</b>

### LED COLOUR OPTIONS

Extra warm white (2700K)*	SUFFIX /LW27
Warm white (3000K)	/LW30
White (5000K)	/LW50

\*2700K LEDs are available on special order

### FINISH OPTION

Stainless steel 316  
Polished stainless steel (passivate for marine environments)  
Paint finish white / black / RAL  
Flamed solid bronze (antique finish)

### FIXING OPTION

Comes as standard with /484S first fix sleeve

### LED DRIVERS

Use with 350mA or 500mA constant current LED drivers. Please see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available



# LD10234

## SQUARE RECESSED LOW GLARE WALL LIGHT



A square recessed wall light with a single 2.4W LED. It comes as standard with a brushed 3mm stainless steel bezel with no visible fixings, creating an attractive fitting for indoor use. The specular reflector gives a diffused wash of light onto a path or floor with minimal glare. The LD10234 comes with an integral non-dimming driver for 230V mains input.



### KEY FEATURES

- > Very broad diffused beam shape
- > Low glare with the LED and lens assembly recessed deep within the fitting
- > Typical 93 CRI in 3000K warm white
- > Flush glass
- > No visible fixings. Comes as standard with a first fix concrete in back box

### SPECIFICATION

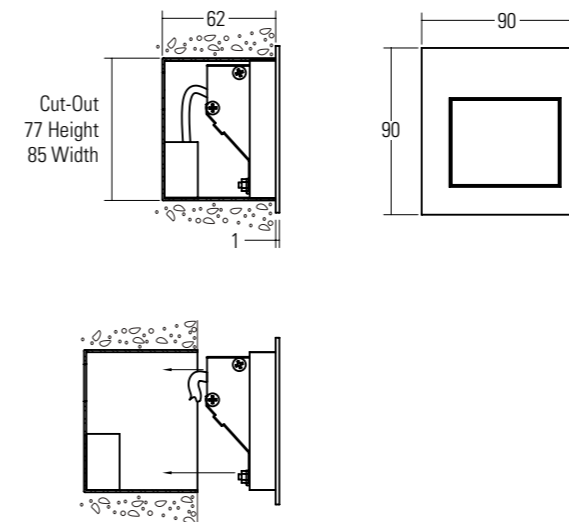
LED	1 x Cree XPG
Max drive current	700mA
Max LED power*	2.4W

\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files

### DIMENSION AND FIXING OPTIONS

Dimensions in mm

/476 - Fixing sleeve and O-rings



### ORDER CODES AND OPTIONS

Product Code	LED Colour	Finish
<b>LD10234-350</b>		
-500		
-700		
Example: LD10234-700 / LW30 / Stainless Steel		

### PRODUCT CODES WITH OUTPUT OPTION

1.2W LED at 350mA	<b>LD10234-350</b>
1.7W LED at 500mA	<b>LD10234-500</b>
2.4W LED at 700mA	<b>LD10234-700</b>

### 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

\*2700K LEDs are available on special order

### BEZEL FINISH OPTION

Brushed and passivated stainless steel 316  
Polished and passivated stainless steel  
Paint finish white / black / RAL

### FIXING OPTION

Comes as standard with a first fix concrete box

### LED DRIVERS

Comes as standard with a non-dim driver. For dimming use remote driver.  
Use with 350mA, 500mA or 700mA constant current LED drivers see page 188  
Switch (integral), 1-10V, DMX, DALI and Mains dimmable remote drivers are available





# LD51

## MINIATURE SURFACE MOUNTED ADJUSTABLE LED SPOTLIGHT

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.

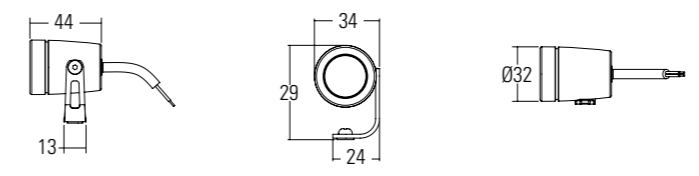


### KEY FEATURES

- > 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

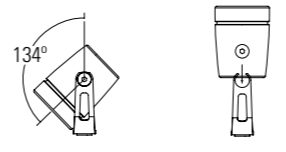
### DIMENSIONS

Dimensions in mm



### PIVOT BRACKET

The pivot bracket is lockable with the supplied allen key.



### SPECIFICATION

LED	1 x Cree XPG	
Max drive current	700mA	
Max LED power*	2.4W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L <sub>100</sub> )	119	184
Lumens per circuit watt	50	77
	56 (1.7W)	87 (1.7W)

*\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files*







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

**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.



**/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.



**/SMB - Surface Mount Base**



**ORDER CODES AND OPTIONS**

Product Code	LED Colour	Lens Angle	Accessory	Finish
<b>LD51-350</b>				
<b>-500</b>				
<b>-700</b>				

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

**PRODUCT CODES WITH OUTPUT OPTION**

1.2W 350mA	<b>LD51-350</b>
1.7W 500mA	<b>LD51-500</b>
2.4W 700mA	<b>LD51-700</b>

**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

\*2700K LEDs are available on special order

**BEAM / LENS ANGLE OPTION**

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

**ACCESSORIES**

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

**FINISH OPTION**

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

**LED DRIVERS**

Use with 350mA, 500mA or 700mA constant current LED drivers see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available



# LD81

## HIGH POWER MINIATURE LED SPOTLIGHT WITH MOUNTING SYSTEMS



The LD81 is a high power, miniature, adjustable LED spotlight. With its discreet design, and wide range of mounting options it is suitable for a huge variety of applications. Each mounting method is custom made to each projects requirements, allowing the designer to tailor the lighting layout for each display. The best method of specification for these spotlights and mounting systems is to send us a sketch of what is required. This can then be discussed and we will produce a project specification and quote.



Design: Into Lighting Design Project: The Shard, London Product: LD81

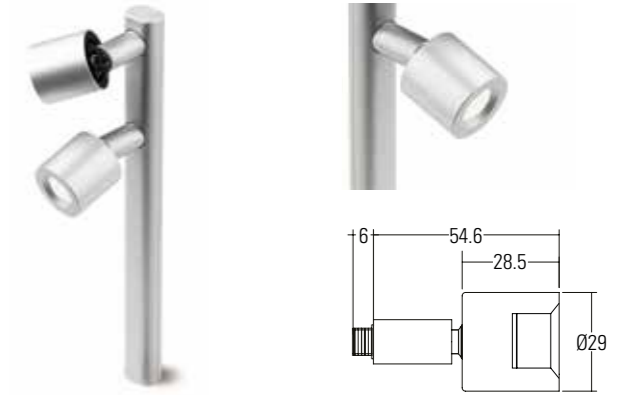
### KEY FEATURES

- > Utilizes the latest LED technology with a typical CRI of 93 in warm white
- > Broad range of uses including display, picture and sign lighting
- > Compact design with high output
- > Knuckle joint allows great flexibility in adjustment
- > Custom made to suit exact specified dimensions
- > Range of mounting options
- > Precise beam control with a range of optics

### SPECIFICATION

LED	1 x Cree XPG	
Max drive current	700mA	
Max LED power*	2.4W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L <sub>100</sub> )	127	197
Lumens per circuit watt	53	86
	58 (1.7W)	90 (1.7W)

\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files



LD82 - For a single spotlight on top of a stem, see our LD82 which has the knuckle joint on the side. This uses the same LED and optics as the LD81.



Project: Peter Jones, Sloane Square Product: LD81



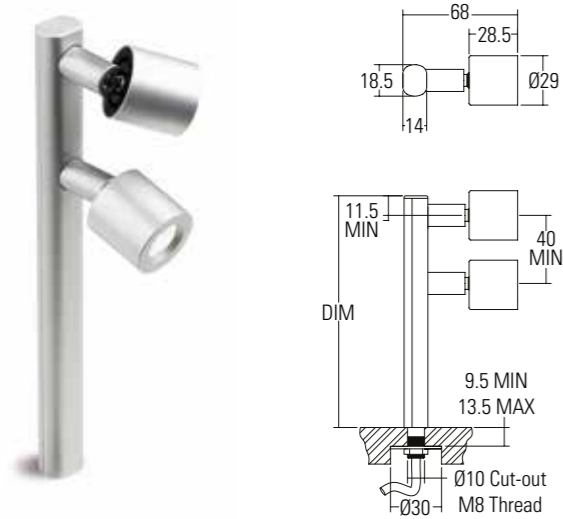
Project: Harrods, London Product: LD81

## MOUNTING OPTIONS AND DIMENSIONS

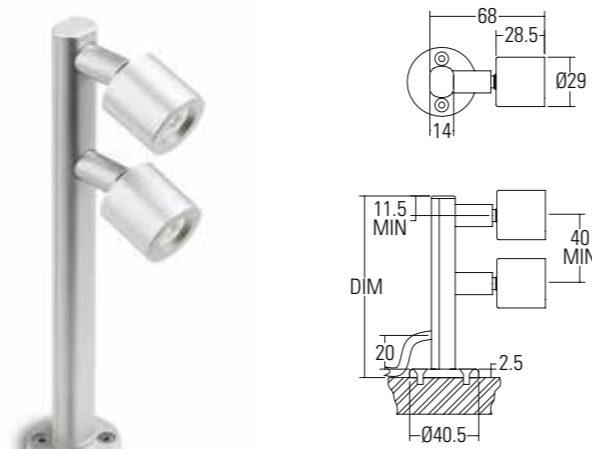
Dimensions in mm

**STEM MOUNTING METHODS** - This 2 part aluminium profile has been designed as a slight oval and is counterbored where the knuckles attach which gives a slim look and neat detail at the junction. The best method of specification is to send us a sketch of what is required, this can then be discussed and a project quote created. 4 mounting methods are available and each is custom made to the specification.

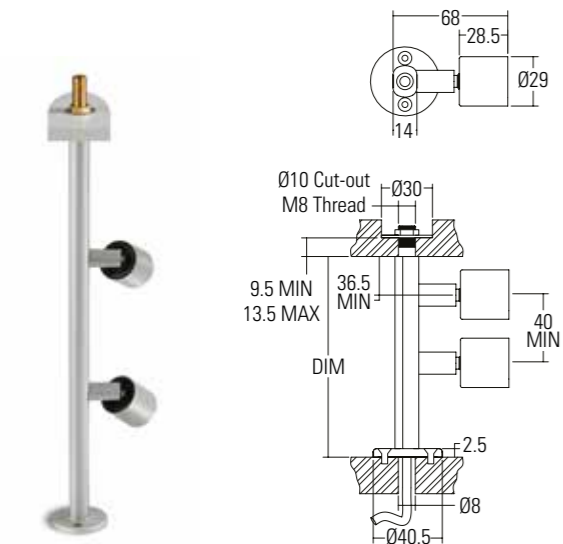
/M1- Method 1 - for fixing to the base of a cabinet, with cables exiting from the M8 all-thread stud. Specify stem length, number of spotlights and spacing.



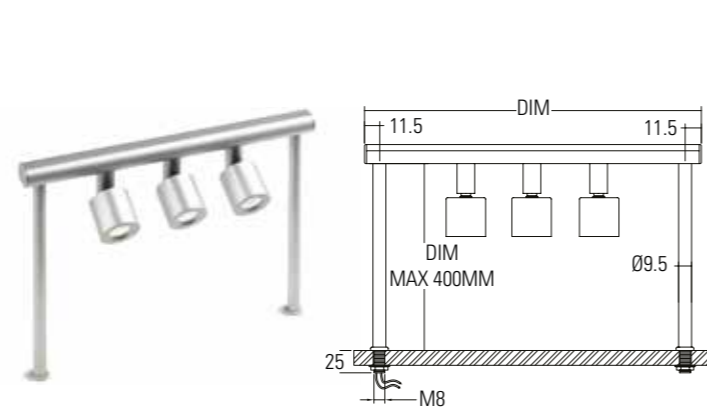
/M2- Method 2 - surface mounted option with cable exit at the back. Specify stem length, number of spotlights and spacing.



/M3 - Method 3 - stem is fixed at the bottom with a surface mount base and screws. An M8 thread and nut is used to fix at the top. Specify stem length, number of spotlights and spacing.



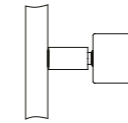
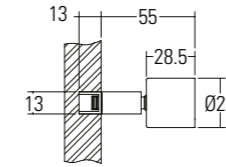
/M4 - Method 4 - goal post method. Specify stem and leg support length, height, LED spacing and number of spots.



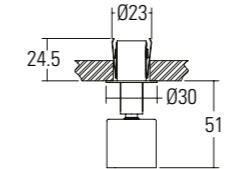
## ALTERNATIVE MOUNTING METHODS

Dimensions in mm

/E1313 - Aluminium U channel can be flush mounted into a routed groove into the side of cabinets which makes a very neat detail. All the wiring can be done at the manufacturing stage speeding up installation. Specify length, number of spotlights and spacing.



/PL-1 - Single swivel mounting plate is very useful for mounting individual spotlights neatly into the sides, top or base of cabinets.



## ORDER CODES AND OPTIONS

Product Code	LED Colour	Lens Angle	Finish	Mounting Method	Length
<b>LD81-350</b>					
<b>-500</b>					
<b>-700</b>					
Example: LD81-700 / LW30 / MB / Silver Anodised / M1 / 500mm					

### PRODUCT CODES WITH OUTPUT OPTION

1.2W 350mA	<b>LD81-350</b>
1.7W 500mA	<b>LD81-500</b>
2.4W 700mA	<b>LD81-700</b>

### LED COLOUR OPTIONS

LED Colour	SUFFIX
Extra warm white (2700K)*	/LW27
Warm white (3000K)	/LW30
Cool white (5000K)	/LW50

\*2700K LEDs are available on special order

### BEAM / LENS ANGLE OPTION

12° narrow spot	/NB
31° medium	/MB
48° wide	/WB

### FINISH OPTIONS

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

### MOUNTING METHOD

Method 1	/M1
Method 2	/M2
Method 3	/M3
Method 4	/M4
Aluminium U channel	/E1313
Single swivel mounting plate	/PL-1

### LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available



# LD81M

## MINIATURE LED SPOTLIGHT WITH MOUNTING SYSTEMS



350  
mA

(IP40)



The LD81M is a smaller, more discreet version of the LD81, using the same LED, optics and mounting methods. Maximum output is 1.2W compared to 2.4W in the LD81. Each mounting method is custom made to each projects requirements, allowing the designer to tailor the lighting layout for each display. The best method of specification for these spotlights and mounting systems is to send us a sketch of what is required. This can then be discussed and we will produce a project specification and quote.



Product: LD81M  
Project: Jimmy Choo, London  
Design: Illumination Works

### KEY FEATURES

- > Smaller version of the LD81
- > Utilizes the latest LED technology with a typical CRI of 93 in warm white
- > Broad range of uses including display, picture and sign lighting
- > Compact design with high output
- > Knuckle joint allows great flexibility in adjustment
- > Custom made fixing solutions to suit exact specified dimensions
- > Precise beam control with a range of optics

### SPECIFICATION

LED	1 x Cree XPG	
Max drive current	350mA	
Max LED power*	1.2W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L <sub>100</sub> )	75	116
Lumens per circuit watt	63	97

\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files



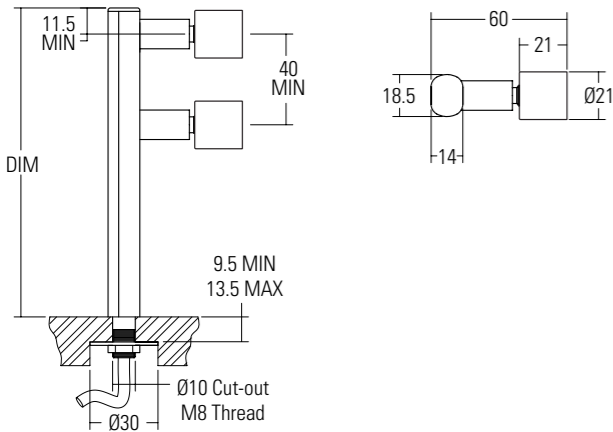
Product: LD81M  
Project: Mandarin Oriental, London  
Design: Light + Design

## MOUNTING OPTIONS AND DIMENSIONS

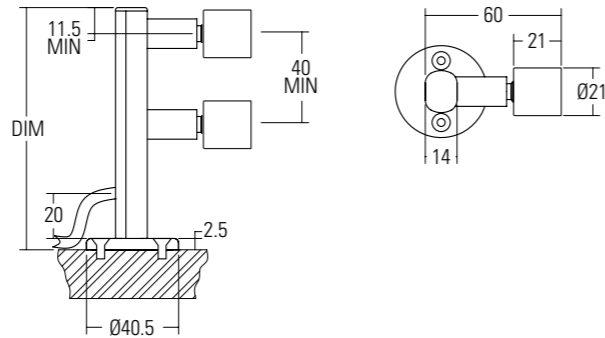
Dimensions in mm

**STEM MOUNTING METHODS** - This 2 part aluminium profile has been designed as a slight oval and is counterbored where the knuckles attach which gives a slim look and neat detail at the junction. The best method of specification is to send us a sketch of what is required, this can then be discussed and a project quote created. 4 mounting methods are available and each is custom made to the specification.

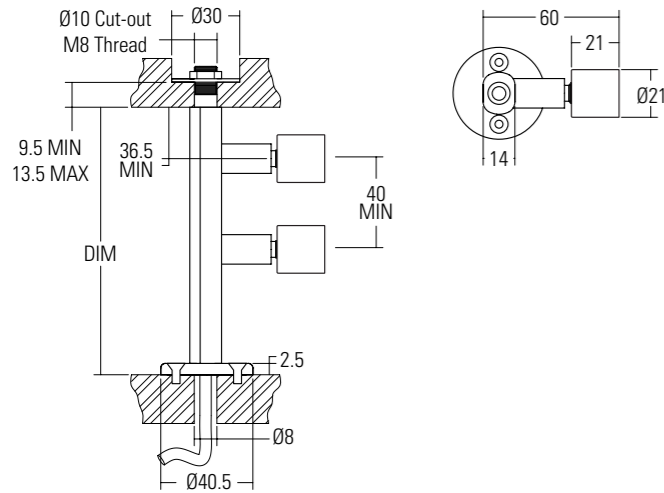
**/M1- Method 1** - for fixing to the base of a cabinet, with cables exiting from the M8 all-thread stud. Specify stem length, number of spotlights and spacing.



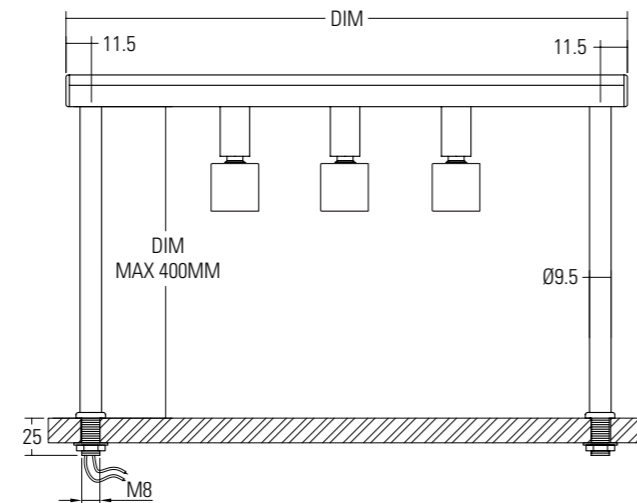
**/M2- Method 2** - surface mounted option with cable exit at the back. Specify stem length, number of spotlights and spacing.



**/M3 - Method 3** - stem is fixed at the bottom with a surface mount base and screws. An M8 thread and nut is used to fix at the top. Specify stem length, number of spotlights and spacing.



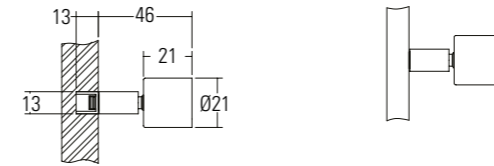
**/M4 - Method 4** - goal post method. Specify stem and leg support length, height, LED spacing and number of spots.



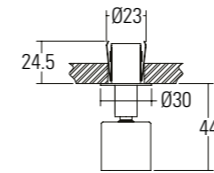
## ALTERNATIVE MOUNTING METHODS

Dimensions in mm

**/E1313** - Aluminium U channel can be flush mounted into a routed groove into the side of cabinets which makes a very neat detail. All the wiring can be done at the manufacturing stage speeding up installation.



**/PL-1** - Single swivel mounting plate is very useful for mounting individual spotlights neatly into the sides, top or base of cabinets.



## SIZE COMPARISON BETWEEN THE LD81 AND LD81M



## ORDER CODES AND OPTIONS

Product Code	LED Colour	Lens Angle	Finish	Mounting Method	Length
<b>LD81M-350</b>					
Example: LD81M-350 / LW30 / MB / Silver Anodised / M1 / 500mm					

PRODUCT CODES WITH OUTPUT OPTION \_\_\_\_\_ **LD81M-350**  
1.2W 350mA

LED COLOUR OPTIONS \_\_\_\_\_ SUFFIX  
Extra warm white (2700K)\* /LW27  
Warm white (3000K) /LW30  
Cool white (5000K) /LW50  
\*2700K LEDs are available on special order

BEAM / LENS ANGLE OPTION \_\_\_\_\_  
12° narrow spot /NB  
31° medium /MB  
48° wide /WB

FINISH OPTIONS \_\_\_\_\_  
Silver / black / white (RAL 9016) / RAL finish

MOUNTING METHOD \_\_\_\_\_  
Method 1 /M1  
Method 2 /M2  
Method 3 /M3  
Method 4 /M4  
Aluminium U channel /E1313  
Single swivel mounting plate /PL-1

LED DRIVERS \_\_\_\_\_  
Use with 350mA constant current LED drivers see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available



# LD82

## HIGH POWER SURFACE MOUNTED MINIATURE LED SPOTLIGHT

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- 
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- 

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- 
- 

The LD82 is a high power, miniature, adjustable LED spotlight. The knuckle attaches to the body from the side making it ideal for instances where a single spotlight is needed. A wide range of mounting methods are available with each being custom made to each projects requirements. This allows the designer to tailor the lighting layout for each display. The best method of specification for these spotlights and mounting systems is to send us a sketch of what is required. This can then be discussed and we will produce a project specification and quote.



### KEY FEATURES

- > Utilizes the latest LED technology with a typical CRI of 93 in warm white
- > Broad range of uses including display, picture and sign lighting
- > Compact design with high output
- > Knuckle joint allows great flexibility in adjustment
- > Custom made to suit exact specified dimensions
- > Mounting options
- > Precise beam control with a range of optics

### SPECIFICATION

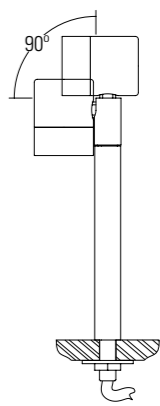
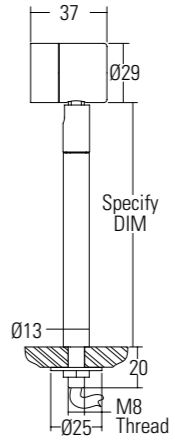
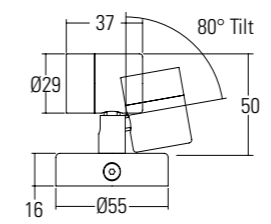
LED	1 x Cree XPG	
Max drive current	700mA	
Max LED power*	2.4W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L <sub>100</sub> )	127	197
Lumens per circuit watt	53	82
	58 (1.7W)	90 (1.7W)

*\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files*

### MOUNTING OPTIONS AND DIMENSIONS

/SMB - Surface mount base offers hidden wiring and a machined pivot arm with lockable tilt and rotation.

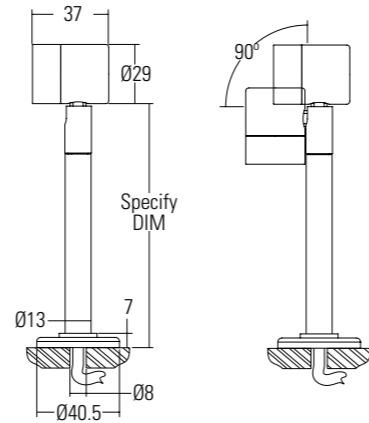
/M1 - Method 1 - has no visible fixings. The stem and spotlight are fixed to the mounting surface via an M8 thread and nut. Cables exit from this point as well. Specify DIM (please note this does not include the height of the LED head).



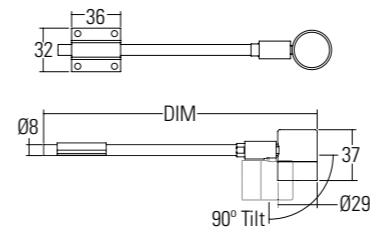
**MOUNTING OPTIONS AND DIMENSIONS**

Dimensions in mm

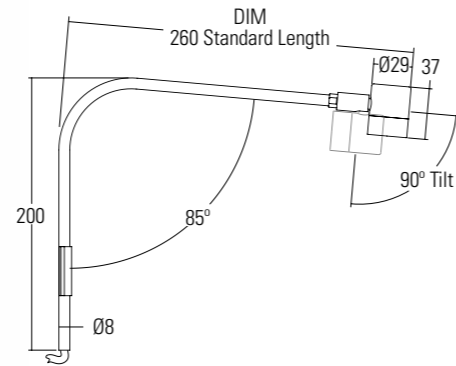
/M2- Method 2 - supplied with surface mount base which is suited to applications where there is no access to the underside of the mounting surface. Specify DIM (please note this does not include the height of the head).



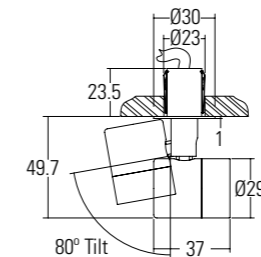
/M4 - Method 4 - is for fixing to an interior ledge, shelf or bookcase. The arm is length adjustable with the use of the fixing bracket. Specify DIM.



/M3 - Method 3 - is designed for lighting pictures and signs. The range of LightGraphix optics allow the specifier the control and soft edged beam required to light pictures effectively. The arm is height adjustable with the use of the fixing bracket.



/PL-1 - This is a very discreet method of mounting a single spotlight into the base or side of a cabinet or showcase.



**ORDER CODES AND OPTIONS**

Product Code	LED Colour	Lens Angle	Finish	Mounting Method	Length
<b>LD82-350</b>					
<b>-500</b>					
<b>-700</b>					
Example: LD82-700 / LW30 / MB / Silver Anodised / M1 / 500mm					

PRODUCT CODES WITH OUTPUT OPTION

1.2W 350mA	<b>LD82-350</b>
1.7W 500mA	<b>LD82-500</b>
2.4W 700mA	<b>LD82-700</b>

LED COLOUR OPTIONS

LED Colour	SUFFIX
Extra warm white (2700K)*	/LW27
Warm white (3000K)	/LW30
Cool white (5000K)	/LW50

\*2700K LEDs are available on special order

BEAM / LENS ANGLE OPTION

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

FINISH OPTIONS

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

MOUNTING METHOD

Method 1	/M1
Method 2	/M2
Method 3	/M3
Method 4	/M4
PL1	/PL-1
Surface mount base	/SMB

LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available



# LD10236

## 2 X LED UP AND DOWN WALL WASHER



350  
mA

500  
mA

IP67



A compact, high quality wall washer with excellent output. The LD10236 has a very minimal design ensuring it will blend into most interior / exterior project styles. Low glare has been achieved by setting the LED back into the fitting which is then held in place by a matt black anti glare ring. It has been used for general illumination and creating effects around buildings, as well as an extensive list of interior projects. It is available in a range of finishes.



Product: LD10236  
Design: Stan Baxter Lighting Design  
Project: Private residence

### KEY FEATURES

- > LED and lens assembly recessed within a black anodised body for reduced glare
- > High quality machined components
- > Interior or exterior use
- > Minimal aesthetic enabling it to fit into most project styles
- > Discreet fixing with two grub screws behind the body
- > Single optic produces a very consistent beam with no multiple shadows
- > Narrow 10° spot is available for lighting columns and arches or an oval 15°x 30° spreader lens which is ideal for wall washing
- > RGBW LED option uses a larger optic, for a premixed light beam immediately adjacent to the fitting

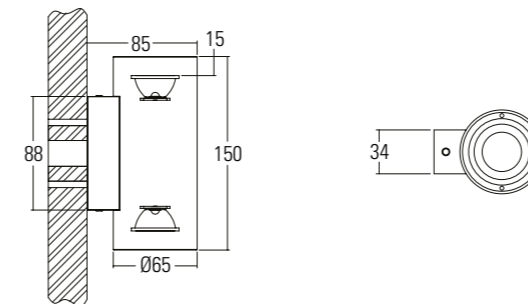
### SPECIFICATION

LED	2 x Cree MKR 4 die LED	
Max drive current	500mA	
Max LED power*	14W (12.6W nominal)	
Colour temperature	3000K	5000K
CRI (typical)	85	75
Delivered lumens (L <sub>100</sub> )	938	1004
Lumens per circuit watt	74	80

\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files

### DIMENSIONS

Dimensions in mm



### ORDER CODES AND OPTIONS

Product Code	LED Colour	Lens Angle	Finish
<b>LD10236-350</b>			
<b>-500</b>			
Example: LD10236-500 / LW30 / NB / OB / Silver Anodised			

### PRODUCT CODES WITH OUTPUT OPTION

10W 350mA	<b>LD10236-350</b>
14W 500mA	<b>LD10236-500</b>

### LED COLOUR OPTIONS

Extra warm white (2700K)*	SUFFIX /LW27
Warm white (3000K)	/LW30
Cool white (5000K)	/LW50
RGBW	/RGBW

\*2700K LEDs are available on special order

### BEAM / LENS ANGLE OPTION

10° narrow spot	/NB
30° medium spot	/MB
50° wide spot	/WB
15° x 30° oval spreader beam	/OB
Different beam angle at each end	/** / **
RGBW LED comes with a 26° Lens	

### FINISH OPTION

Silver anodised  
Bright anodised (stainless steel effect)  
Paint finish black / white (RAL 9016) / RAL

### LED DRIVERS

Use with 350mA or 500mA constant current LED drivers. Please see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available

# LD10237

## LED UP/DOWN WALL WASHER



A compact, high quality wall washer with excellent output. The LD10237 has a very minimal design ensuring it will blend into most interior / exterior project styles. Low glare has been achieved by setting the LED back into the fitting which is then held in place by a matt black anti glare ring. It has been used for general illumination and creating effects around buildings, as well as an extensive list of interior projects. It is available in a range of finishes.



Product: LD10236  
Project: Private residence  
Design: Sian Baxter Lighting Design

### KEY FEATURES

- > LED and lens assembly recessed within a black anodised body for reduced glare
- > High quality machined components
- > Interior or exterior use
- > Minimal aesthetic enabling it to fit into most project styles
- > Discreet fixing with two grub screws behind the body
- > Single optic produces a very consistent beam with no multiple shadows
- > Narrow 10° spot is available for lighting columns and arches or an oval 15°x 30° spreader lens which is ideal for wall washing
- > RGBW LED option uses a larger optic, for a premixed light beam immediately adjacent to the LED

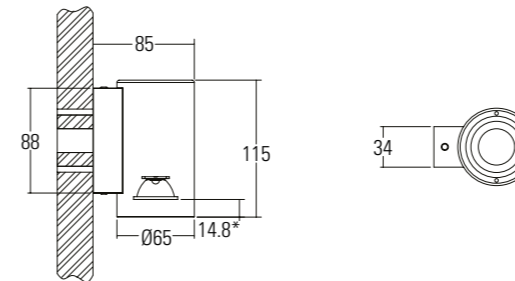
### SPECIFICATION

LED	Cree MKR 4 die LED	
Max drive current	700mA	
Max LED power*	10W (9W nominal)	
Colour temperature	3000K	5000K
CRI (typical)	85	75
Delivered lumens (L <sub>100</sub> )	584	625
Lumens per circuit watt	65	69

\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files

### DIMENSIONS

Dimensions in mm



\*4.3mm when using the taller RGBW optic

### ORDER CODES AND OPTIONS

Product Code	LED Colour	Beam Angle	Finish
<b>LD10237-350</b> <b>-500</b>			
Example: LD10237-350 / LW30 / NB / White			

### PRODUCT CODES WITH OUTPUT OPTION

5W 350mA	<b>LD10237-350</b>
7W 500mA (max for RGBW)	<b>LD10237-500</b>
10W 700mA	<b>LD10237-700</b>

### LED COLOUR OPTIONS

Extra warm white (2700K)*	/SUFF
Warm white (3000K)	/LW27
Cool white (5000K)	/LW30
RGBW	/LW50
	/RGBW

\*2700K LEDs are available on special order

### BEAM / LENS ANGLE OPTION

10° narrow spot	/NB
30° medium spot	/MB
50° wide spot	/WB
15° x 30° oval spreader beam	/OB
RGBW LED comes with a 26° lens	

### FINISH OPTION

Silver anodised  
Bright anodised (stainless steel effect)  
Paint finish black / white (RAL 9016) / RAL

### LED DRIVERS

Use with 350mA or 500mA constant current LED drivers. Please see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available





Design: DesignPlusLight Project: Private Residence Product: LD10238

# LD10238

HIGH POWER SURFACE MOUNTED  
ADJUSTABLE EXTERIOR LED SPOTLIGHT

A compact, high power spotlight, with excellent output. The LD10238 has a very minimal design ensuring it will blend into most interior / exterior project styles. The use of a single optic ensures excellent beam shape and soft edge. It comes with a wide range of fixing options and accessories and is available in a choice of finishes.



## KEY FEATURES

- > Low glare is achieved with a cowl, and recessing the LED and lens assembly deep within the body
- > Lockable tilt adjustment
- > Single optic produces a very consistent beam with no multiple shadows
- > Narrow 10° spot is available for lighting columns and arches
- > Surface mount base offers lockable tilt and rotation with no visible cable
- > Spike accessory available for in-ground applications
- > RGBW LED option uses a larger optic, for improved colour mixing (max 500mA)
- > Same LED as LD151, LD150 and LD10236 for consistency through a project
- > Range of finish options

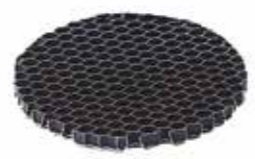
## SPECIFICATION

LED	Cree MKR 4 die LED	
Max drive current	700mA	
Max LED power*	10W (9W nominal)	
Colour temperature	3000K	5000K
CRI (typical)	85	75
Delivered lumens (L <sub>100</sub> )	584	625
Lumens per circuit watt	65	69

*\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files*

## ACCESSORIES

/HL - Honeycomb louvre for reduced glare. Please note this is not suitable for use with the 30° and 50° deg beam angle due to the quality of the beam.



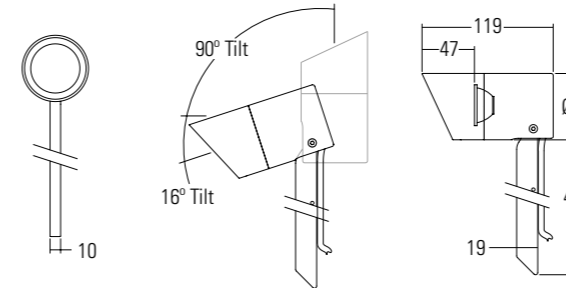
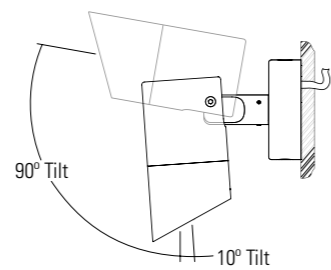
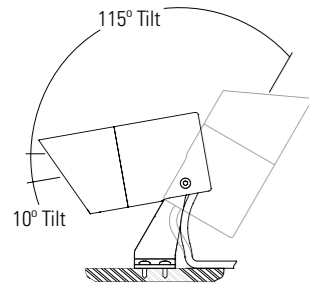
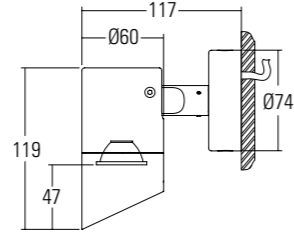
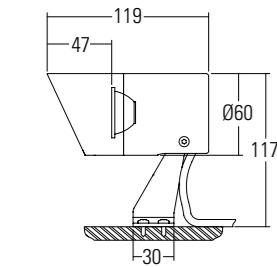
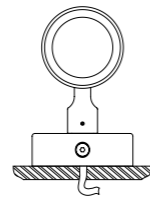
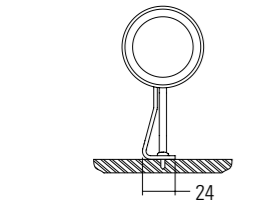
**FIXING OPTIONS AND DIMENSIONS**

Dimensions in mm

/SAM - Surface arm mounting is screwed to the mounting surface and allows for minor rotational adjustment. The tilt is lockable via the socket head screw on the side.

/SMB - Surface mount base offers hidden wiring and a machined pivot arm with lockable tilt and rotation.

/GS - Ground spikes for in ground applications.



**ORDER CODES AND OPTIONS**

Product Code	LED Colour	Lens Angle	Finish	Fixing Method & Accessory
<b>LD10238-350</b>				
-500				
-700				
Example: LD10238-700 / LW30 / NB / Black / SMA / HL				

PRODUCT CODES WITH OUTPUT OPTION

5W 350mA	<b>LD10238-350</b>
7W 500mA (max for RGBW)	<b>LD10238-500</b>
10W 700mA	<b>LD10238-700</b>

LED COLOUR OPTIONS

LED Colour	SUFFIX
Extra warm white (2700K)*	/LW27
Warm white (3000K)	/LW30
Cool white (5000K)	/LW50
RGBW	/RGBW

\*2700K LEDs are available on special order

BEAM / LENS ANGLE OPTION

10° narrow spot	/NB
30° medium spot	/MB
50° wide spot	/WB
15° x 30° oval spreader beam	/OB
RGBW LED comes with a 26° lens	

FINISH OPTION

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

FIXING METHODS AND ACCESSORIES

Surface mount bracket	/SAM
Surface mount base	/SMB
Ground spike	/GS
Honeycomb louvre (not suitable for use with 30° and 50° lens)	/HL

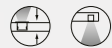
LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers. Please see page 188. Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available.



# LD40

## MINIATURE SHALLOW LED DOWN AND WALL LIGHT



LD40 is an incredibly shallow downlight for applications where a very small recess depth is required. Originally designed as a special for under cabinet lighting, it has now been added to our standard range as it has proved so popular.



Product: LD40 - 350 / NB (50mm from centre of fitting to wall)

### KEY FEATURES

- > Very shallow, only 22mm recess depth required including cable
- > Ideal for shelf lighting or under cabinets
- > 93 CRI LED in warm white
- > Range of beam angles
- > Maximum output is 350mA 1.2W due to its small size
- > Minimal bezel thickness
- > Spring clip fixing method

### SPECIFICATION

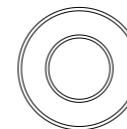
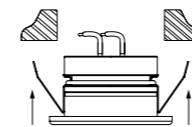
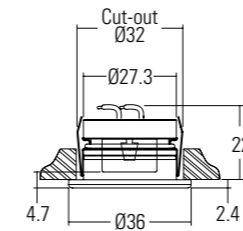
LED	1 x Cree XPG	
Max drive current	350mA	
Max LED power*	1.2W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L <sub>100</sub> )	72	112
Lumens per circuit watt	60	93

\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files

### DIMENSIONS AND FIXING OPTIONS

Dimensions in mm

/SC - Spring clips



### ORDER CODES AND OPTIONS

Product Code | LED Colour | Lens Angle | Bezel Finish | Fixing

LD40-350

Example: LD40-350 / LW30 / MB / Stainless steel / SC

### PRODUCT CODES WITH OUTPUT OPTION

1.2W 350mA

LD40-350

### LED COLOUR OPTIONS

Extra warm white (2700K)\*

Warm white (3000K)

Cool white (5000K)

Blue

Green

Red

Amber

SUFFIX

/LW27

/LW30

/LW50

/LB

/LG

/LR

/LA

\*2700K LEDs are available on special order

### BEAM / LENS ANGLE OPTION

12° narrow spot

31° medium

48° wide

36° x 12° oval beam

/NB

/MB

/WB

/OB

### BEZEL FINISH OPTIONS

Stainless steel 316 (standard)

Paint finish silver / black / white (RAL 9016) / RAL

Polished stainless steel (passivate for marine environments)

### FIXING OPTIONS

Spring clips

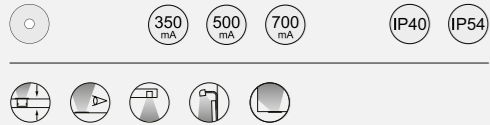
/SC

### LED DRIVERS

Use with 350mA constant current LED drivers. Please see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available

# LD72

## MINIATURE LOW GLARE LED DOWNLIGHT



LD72 is a miniature, LED downlight, ideal for display, niches or general downlighting effects. It is very discreet with the LED set back by 10mm to reduce the glare, and a painted bezel which can be matched to the mounting surface. It utilizes the latest LED technology with a typical CRI of 93 in warm white. IP40 as standard, but can be specified IP54 for bathrooms or wet environments.



Product: LD72 - 700 / NB (50mm from centre of fitting to wall)

### KEY FEATURES

- > Very minimal depth and bezel diameter
- > High power for its size
- > High efficiency optics specially designed for LightGraphix guarantee excellent beam spread and shape
- > Recessed LED position for reduced glare
- > Optional IP54 version for wet areas, comes with glass and gasket
- > Hidden fixing options include spring clips
- > Simple and fast installation

### SPECIFICATION

LED	1 x Cree XPG	
Max drive current	700mA	
Max LED power*	2.4W	
Colour temperature	3000K	5000K
CRI (typical)	93	80
Delivered lumens (L <sub>100</sub> )	127	197
Lumens per circuit watt	53	82
	58 (1.7W)	90 (1.7W)

\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files

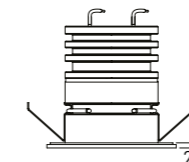
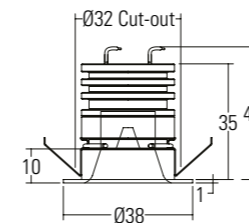


### DIMENSIONS

Dimensions in mm

LED and optic position recessed by 10mm for reduced glare

IP54 rated version is supplied with an extra gasket which sits between the bezel and the mounting surface



### ORDER CODES AND OPTIONS

Product Code	LED Colour	Lens Angle	IP rating	Finish
<b>LD72-350</b>				
<b>-500</b>				
<b>-700</b>				

Example: LD72-700 / LW30 / MB / IP54 / Paint finish white

### PRODUCT CODES WITH OUTPUT OPTION

1.2W 350mA	<b>LD72-350</b>
1.7W 500mA	<b>LD72-500</b>
2.4W 700mA	<b>LD72-700</b>

### 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

\*2700K LEDs are available on special order

### BEAM / LENS ANGLE OPTION

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

### IP RATING

IP40 (dry internal use as standard)	/IP40
IP54 rated for wet environments	/IP54

### BEZEL FINISH OPTIONS

Paint finish silver / black / white (RAL 9016) / RAL  
Chrome finish (minimum order - please contact us)

### LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available



# LD71

## MINIATURE ADJUSTABLE LOW GLARE LED DOWNLIGHT



LD71 is a miniature, adjustable LED downlight, ideal for display, niches or general downlighting effects. It is very discreet with the LED set back by 10mm to reduce the glare, with a maximum tilt of 25°. It utilizes the latest LED technology with a typical CRI of 93 in warm white. IP40 as standard, but can be specified IP54 for bathrooms or wet environments.



Product: LD71 - 700 / NB (100mm from centre of fitting to wall)

### KEY FEATURES

- > Very minimal depth and bezel diameter
- > Adjustable with a 25° tilt
- > High power for its size
- > High efficiency optics specially designed for LightGraphix guarantee excellent beam spread and shape
- > Recessed LED position for reduced glare
- > Optional IP54 version for wet areas, comes with glass and gasket
- > Hidden fixing options include spring clips
- > Simple and fast installation

### SPECIFICATION

LED	1 x Cree XPG	
Max drive current	700mA	
Max LED power*	2.4W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L <sub>100</sub> )	127	197
Lumens per circuit watt	53	82
	58 (1.7W)	90 (1.7W)

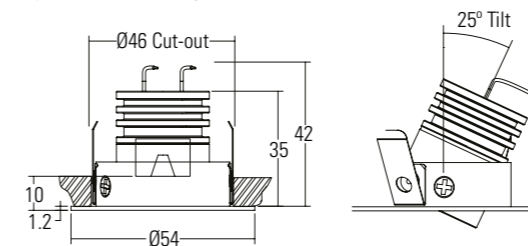
*\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files*



### DIMENSIONS

Dimensions in mm

LED and optic position recessed by 10mm for reduced glare



### ORDER CODES AND OPTIONS

Product Code	LED Colour	Lens Angle	IP rating	Finish
<b>LD71-350</b>				
<b>-500</b>				
<b>-700</b>				

Example: LD71-700 / LW30 / MB / IP54 / Paint finish white

### PRODUCT CODES WITH OUTPUT OPTION

1.2W 350mA	<b>LD71-350</b>
1.7W 500mA	<b>LD71-500</b>
2.4W 700mA	<b>LD71-700</b>

### 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

\*2700K LEDs are available on special order

### BEAM / LENS ANGLE OPTION

12° narrow spot	/NB
31° medium	/MB
48° wide	/WB

### IP RATING

IP40 (dry internal use as standard)	/IP40
IP54 rated for wet environments	/IP54

### BEZEL FINISH OPTIONS

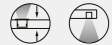
Paint finish silver / black / white (RAL 9016) / RAL  
Chrome finish (minimum order - please contact us)

### LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available

# LD75

## VERY LOW DEPTH HIGH POWER LED DOWNLIGHT



LD75 is a very low depth, triple LED downlight. It is ideal for shelf and display case applications where mounting depth is at a minimum but high output is required.



Product: LD75 - 500 / NB (85mm from centre of fitting to wall)

### KEY FEATURES

- > 93 CRI LED in warm white
- > Very low depth
- > Triple LED for high output
- > 1mm bezel thickness
- > High efficiency optics guarantee excellent beam spread and shape, with 3 beam angles available
- > Fixing is by 3 spring clips
- > Range of bezel finish options

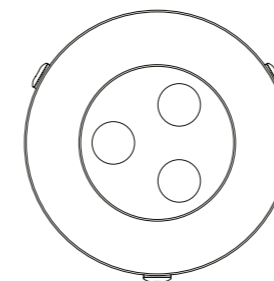
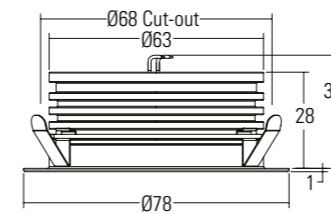
### SPECIFICATION

LED	3 x Cree XPG	
Max drive current	500mA	
Max LED power*	5.1W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L <sub>100</sub> )	311	482
Lumens per circuit watt	65	100

\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files

### DIMENSIONS

Dimensions in mm



### ORDER CODES AND OPTIONS

Product Code	LED Colour	Lens Angle	Finish
<b>LD75-350</b> <b>-500</b>			
Example: LD75-350 / LW30 / MB / White			

### PRODUCT CODES WITH OUTPUT OPTION

3.6W 350mA	<b>LD75-350</b>
5.1W 500mA	<b>LD75-500</b>

### 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

\*2700K LEDs are available on special order

### BEAM / LENS ANGLE OPTION

18° narrow spot	/NB
25° medium	/MB
36° wide	/WB

### BEZEL FINISH OPTIONS

Paint finish silver / black / white (RAL 9016) / RAL

### LED DRIVERS

Use with 350mA or 500mA constant current LED drivers. Please see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available

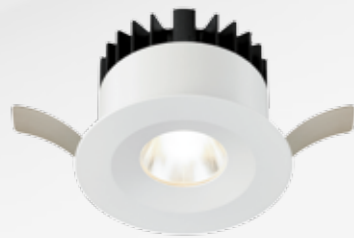


# LD1020

## LED DOWNLIGHT



A very shallow, compact, high quality downlight with impressive light output. The LD1020 is ideal for display cabinets, shelves and areas with restricted recess depth. It has a very minimal design ensuring it will blend into most interior project styles.



Product: LD1020 - 500 / NB (100mm from centre of fitting to wall)

### KEY FEATURES

- > Very shallow recess depth
- > High quality machined components
- > Minimal aesthetic enabling it to fit into most project styles
- > Single optic produces a very consistent beam with no multiple shadows
- > Narrow 10° spot is available for lighting columns and arches or an oval 15°x 30° spreader lens which is ideal for wall washing

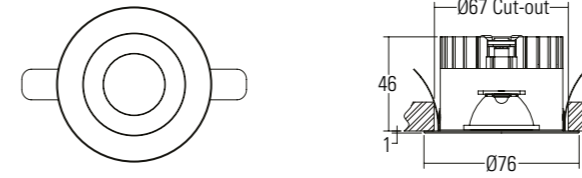
### SPECIFICATION

LED	1 x Cree MKR 4 die LED	
Max drive current	500mA	
Max LED power*	7W (6.3W nominal)	
Colour temperature	3000K	5000K
CRI (typical)	85	75
Delivered lumens (L <sub>100</sub> )	537	575
Lumens per circuit watt	85	91

\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files

### DIMENSIONS

Dimensions in mm



### ORDER CODES AND OPTIONS

Product Code	LED Colour	Beam Angle	Finish
<b>LD1020-350</b> <b>-500</b>			
Example: LD1020-350 / LW30 / NB / White			

### PRODUCT CODES WITH OUTPUT OPTION

5W 350mA	<b>LD1020-350</b>
7W 500mA	<b>LD1020-500</b>

### LED COLOUR OPTIONS

LED Colour	SUFFIX
Extra warm white (2700K)*	/LW27
Warm white (3000K)	/LW30
Cool white (5000K)	/LW50

\*2700K LEDs are available on special order

### BEAM / LENS ANGLE OPTION

10° narrow spot	/NB
30° medium	/MB
50° wide	/WB
15° x 30° oval spreader beam	/OB

### BEZEL FINISH OPTIONS

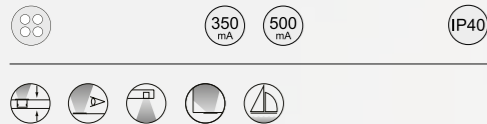
Paint finish silver / black / white (RAL 9016) / RAL

### LED DRIVERS

Use with 350mA or 500mA constant current LED drivers. Please see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available

# LD1030

## LOW GLARE LED DOWNLIGHT



A very shallow, compact, high quality downlight with impressive light output. The LD1030 is ideal for general downlighting, as well as wall washing and column lighting. It uses the same light engine and optics as our LD150, LD151 uplighters allowing consistency in a project. It has a very minimal design ensuring it will blend into most interior project styles.



Product: LD1030 - 500 / NB (100mm from centre of fitting to wall)

### KEY FEATURES

- > Recessed LED and optic for reduced glare
- > Shallow recess depth
- > High quality machined components
- > Minimal aesthetic enabling it to fit into most project styles
- > Single optic produces a very consistent beam with no multiple shadows
- > Narrow 10° spot is available for lighting columns and arches or an oval 15°x 30° spreader lens which is ideal for wall washing
- > Same light engine and optics as the LD151, LD150 uplighter

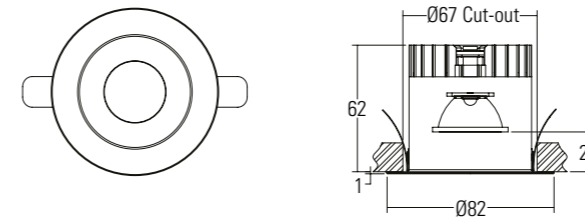
### SPECIFICATION

LED	1 x Cree MKR 4 die LED	
Max drive current	500mA	
Max LED power*	7W (6.3W nominal)	
Colour temperature	3000K	5000K
CRI (typical)	85	75
Delivered lumens (L <sub>100</sub> )	537	575
Lumens per circuit watt	85	91

\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files

### DIMENSIONS

Dimensions in mm



### ORDER CODES AND OPTIONS

Product Code	LED Colour	Beam Angle	Finish
<b>LD1030-350-500</b>			
Example: LD1030-350 / LW30 / NB / White			

### PRODUCT CODES WITH OUTPUT OPTION

5W 350mA	<b>LD1030-350</b>
7W 500mA	<b>LD1030-500</b>

### LED COLOUR OPTIONS

Extra warm white (2700K)*	SUFFIX /LW27
Warm white (3000K)	/LW30
Cool white (5000K)	/LW50

\*2700K LEDs are available on special order

### BEAM / LENS ANGLE OPTION

10° narrow spot	/NB
30° medium	/MB
50° wide	/WB
15° x 30° oval spreader beam	/OB

### BEZEL FINISH OPTIONS

Paint finish silver / black / white (RAL 9016) / RAL

### LED DRIVERS

Use with 350mA or 500mA constant current LED drivers. Please see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available



# LD1250

## FIXED LOW GLARE LED DOWNLIGHT



LD1250 is a very powerful, low glare LED downlight. With its minimal bezel thickness and small diameter it is ideal for discreet wall washing, general downlighting and display lighting. A choice of beam angles are available with slightly frosted optics creating an even, focused beam of light, without compromising efficiency. At 350mA and 500mA a shorter heat sink is required making it useful for applications where ceiling void space is at a minimum, for example display lighting. At 700mA a larger heat sink is required.



Product: LD1250 - 700 / NB (100mm from centre of fitting to wall)

### KEY FEATURES

- > LED and lens assembly recessed for reduced glare
- > High output 6 LED cluster using 93 CRI LEDs
- > Interchangeable optics
- > A range of soft contoured beams
- > Variable heat sink size depending on application and selected output
- > High quality machined components
- > Spring clip fixing

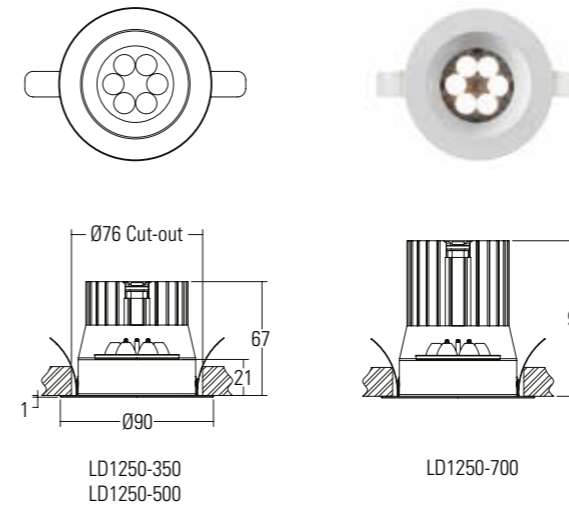
### SPECIFICATION

LED	6 x Cree XPG	
Max drive current	700mA	
Max LED power*	14W	
Colour temperature	3000K	5000K
CRI (typical)	93	80
Delivered lumens (L <sub>100</sub> )	673	1043
Lumens per circuit watt	49	76
	68 (10W)	106 (10W)

\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files

### DIMENSIONS

Dimensions in mm



Please note depth increase when using the 700mA version

### ORDER CODES AND OPTIONS

Product Code	LED Colour	Beam Angle	Finish
<b>LD1250-350</b>			
-500			
-700			
Example: LD1250-350 / LW30 / MB / White			

### PRODUCT CODES WITH OUTPUT OPTION

7W 350mA	<b>LD1250-350</b>
10W 500mA	<b>LD1250-500</b>
14W 700mA	<b>LD1250-700</b>

### LED COLOUR OPTIONS

Extra warm white (2700K)*	SUFFIX /LW27
Warm white (3000K)	/LW30
Cool white (5000K)	/LW50

\*2700K LEDs are available on special order

### BEAM / LENS ANGLE OPTION

15° narrow spot	/NB
25° medium	/MB
40° wide	/WB

### BEZEL FINISH OPTIONS

Paint finish silver / black / white (RAL 9016) / RAL

### LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available

# LD1270

HIGH POWER LOW DEPTH  
ADJUSTABLE LED DOWNLIGHT



LD1270 is a very powerful, adjustable, low glare LED downlight. With its minimal bezel thickness and small diameter it is ideal for discreet wall washing, general downlighting and display lighting. A choice of beam angles are available with slightly frosted optics creating an even, focused beam of light, without compromising efficiency. At 350mA and 500mA a shorter heat sink is required making it useful for applications where ceiling void space is at a minimum, for example display lighting. At 700mA a larger heat sink is required.



Product: LD1270 - 700 / NB (100mm from centre of fitting to wall)

## KEY FEATURES

- > LED and lens assembly recessed for reduced glare
- > Adjustable with a 20° tilt
- > High output 6 LED cluster using 93 CRI LEDs
- > Interchangeable optics
- > A range of soft contoured beams
- > Low depth, ideal for restricted spaces
- > Variable heat sink size depending on application and selected output
- > High quality machined components
- > Spring clip fixing

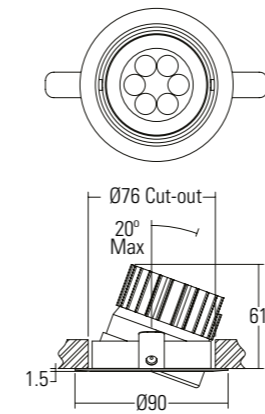
## SPECIFICATION

LED	6 x Cree XPG	
Max drive current	700mA	
Max LED power*	14W	
Colour temperature	3000K	5000K
CRI (typical)	93	80
Delivered lumens (L <sub>100</sub> )	673	1043
Lumens per circuit watt	49	76
	68 (10W)	106 (10W)

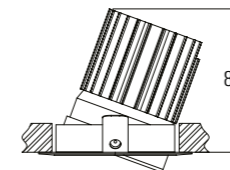
\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files

## DIMENSIONS

Dimensions in mm



LD1270-350  
LD1270-500



LD1270-700  
Please note depth increase  
when using the 700mA version

## ORDER CODES AND OPTIONS

Product Code	LED Colour	Beam Angle	Finish
LD1270-350			
-500			
-700			
Example: LD1270-350 / LW30 / MB / White			

## PRODUCT CODES WITH OUTPUT OPTION

7W 350mA	LD1270-350
10W 500mA	LD1270-500
14W 700mA	LD1270-700

## LED COLOUR OPTIONS

Extra warm white (2700K)*	SUFFIX /LW27
Warm white (3000K)	/LW30
Cool white (5000K)	/LW50

\*2700K LEDs are available on special order

## BEAM / LENS ANGLE OPTION

15° narrow spot	/NB
25° medium	/MB
40° wide	/WB

## BEZEL FINISH OPTIONS

Paint finish silver / black / white (RAL 9016) / RAL

## LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available

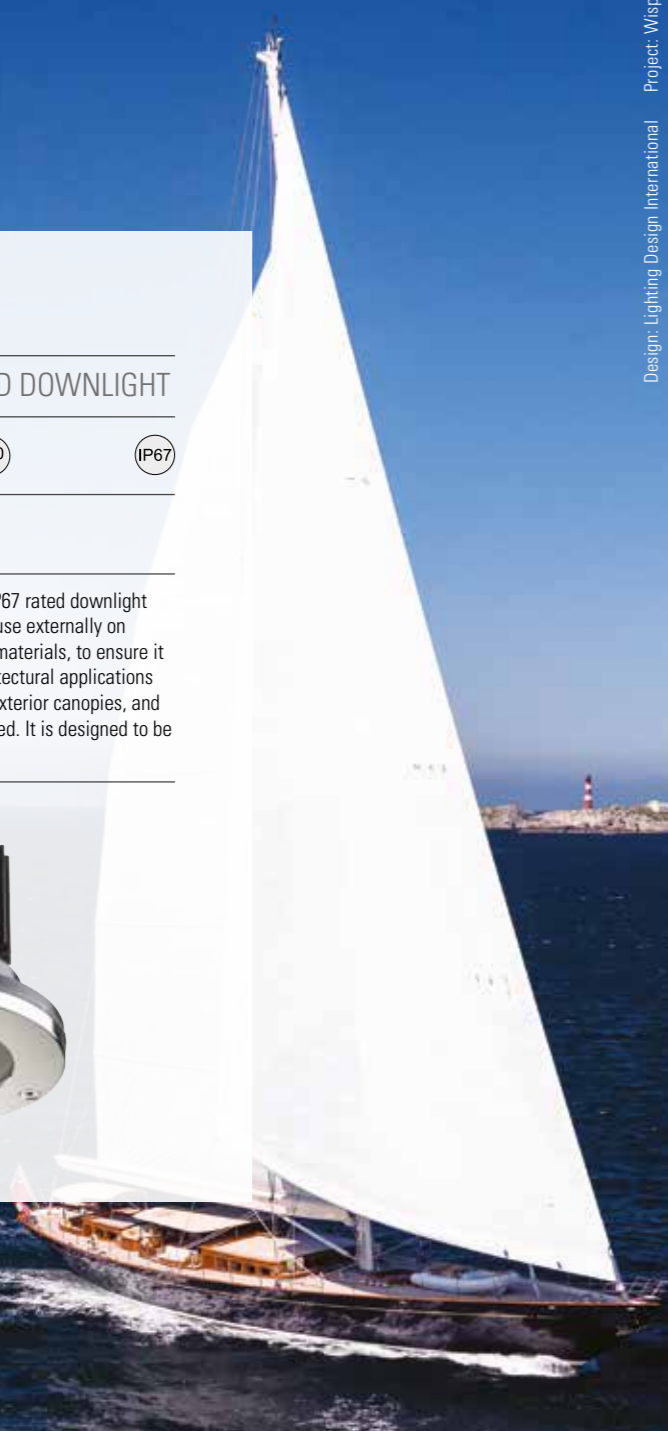


# LD1210

## EXTERIOR LOW GLARE LED DOWNLIGHT



LD1210 is a very powerful, low glare, IP67 rated downlight which has been primarily designed for use externally on yachts. It is machined from high grade materials, to ensure it can withstand sea environments. Architectural applications where this fitting can be used include exterior canopies, and where an IP rated downlighter is required. It is designed to be set flush into the mounting surface.



### KEY FEATURES

- > LED and lens assembly recessed within a black anodised body for reduced glare
- > High output 6 LED cluster using 93 CRI LEDs
- > Interchangeable optics
- > Low depth, ideal for restricted spaces
- > High quality machined components
- > Stainless steel 316 bezel and hard anodized aluminium body for harsh exterior environments
- > Fixing is by 3 screws through the body which is then hidden by the bezel. 3 further screws fix the bezel to the body



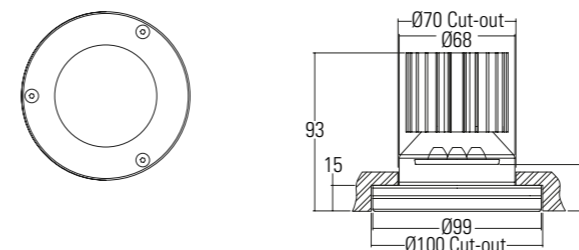
### SPECIFICATION

LED	6 x Cree XPG	
Max drive current	700mA	
Max LED power*	14W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L <sub>100</sub> )	639	990
Lumens per circuit watt	46	72
	56 (10W)	87 (10W)

\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files

### DIMENSIONS

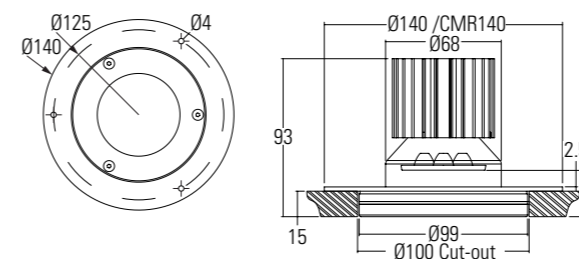
Dimensions in mm



### ACCESSORIES

**/CMR140 - Ceiling Mount Ring**  
This accessory allows the LD1210 to be mounted flush into the ceiling with a simple circular cut-out for the bezel. The ceiling ring is fixed to the back of the mounting surface, and the LD1210 is then attached to the ring. If the ceiling is not 15mm thick then a rebate will need to be created on the back of the mounting surface to allow the ceiling mount ring to sit at a depth which allows the bezel to sit flush.

**Please note: The /CMR140 accessory can only be used if there is access to behind the mounting surface!**



### ORDER CODES AND OPTIONS

Product Code	LED Colour	Beam Angle	Accessories	Finish
<b>LD1210-350</b>				
-500				
-700				
Example: LD1210-350 / LW30 / MB / CMR140 / Polished Stainless Steel				

### PRODUCT CODES WITH OUTPUT OPTION

7W 350mA	<b>LD1210-350</b>
10W 500mA	<b>LD1210-500</b>
14W 700mA	<b>LD1210-700</b>

### LED COLOUR OPTIONS

Extra warm white (2700K)*	SUFFIX /LW27
Warm white (3000K)	/LW30
Cool white (5000K)	/LW50

\*2700K LEDs are available on special order

### BEAM / LENS ANGLE OPTION

15° narrow spot	/NB
25° medium	/MB
40° wide	/WB

### ACCESSORIES

Ceiling mount ring (black anodised)	/CMR140
Honeycomb louvre	/HL50

### BEZEL FINISH OPTIONS

Paint finish black / white (RAL 9016) / RAL  
Polished and passivated stainless steel (marine grade polishing)

### LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available



# LD1220

EXTERIOR LOW GLARE ADJUSTABLE LED DOWNLIGHT

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- 

LD1220 is a very powerful, low glare, exterior rated, adjustable downlighter. This is a specialist product primarily designed for use externally on yachts, so special attention needs to be paid to the mounting of this product. It is machined from high grade materials, to ensure it can withstand sea environments.



## KEY FEATURES

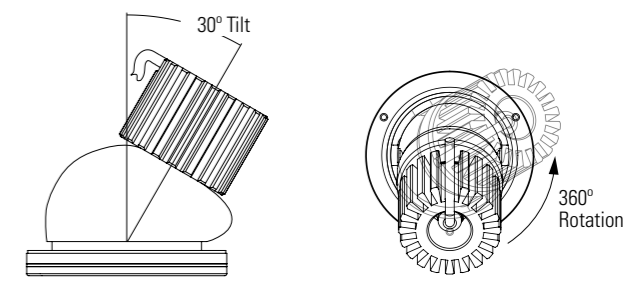
- > LED and lens assembly recessed within a black anodised body for reduced glare
- > Lockable tilt of up to 30° and 360° rotation
- > Innovative flexible 'boot' which allows adjustment whilst maintaining IP rating
- > Fixing ring accessory allows flush mounting into ceiling
- > High output 6 LED cluster using 93 CRI LEDs
- > Interchangeable optics
- > Low depth, ideal for restricted spaces
- > High quality machined components
- > Stainless steel 316 and hard anodized aluminium for harsh exterior environments

## SPECIFICATION

LED	6 x Cree XPG	
Max drive current	700mA	
Max LED power*	14W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L <sub>100</sub> )	639	990
Lumens per circuit watt	46	72
	56 (10W)	87 (10W)

*\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files*

## LOCKABLE ADJUSTMENT





## FIXING METHOD

/CMR140 - Metal Ceiling Mount Ring

**This is the recommended method of fixing. It can only be used if there is access to behind the mounting surface!**

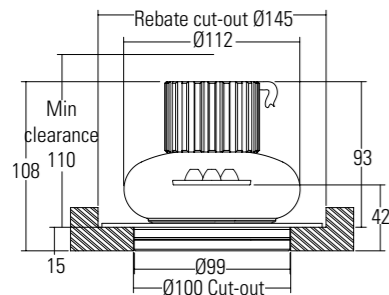
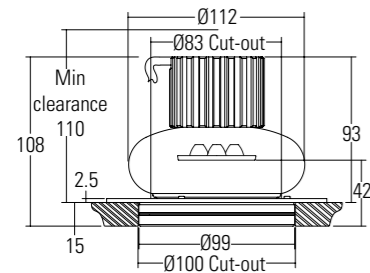
Why use the ceiling mount ring?

- > The fixing holes for the LD1220 are very close to the cut-out diameter, so if the ceiling ring was not used there would be a risk of the fixing screws breaking out
- > Maximum thickness behind the bezel is 5mm to allow for the fixture to tilt. So if fixing into wood, this would not be thick enough for a secure fixing
- > CMR140 ceiling mount ring is manufactured from metal and has the threaded fixing holes pre-drilled
- > It provides a surface for the LD1220 to be fixed flush into the mounting surface

What is the thickness of the mounting surface?

The LD1220 is designed to be installed flush, so the thickness of the mounting surface is important to how the ceiling ring is installed:

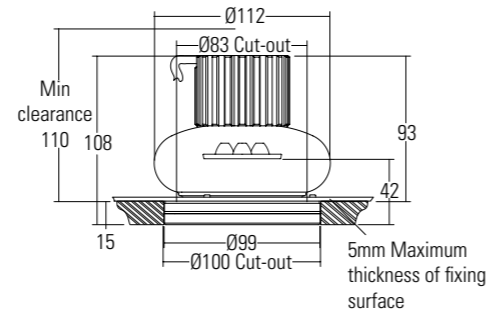
- > If this surface is 15mm in thickness then the ceiling ring can be fixed directly to the back of it
- > If the surface is thicker than 15mm then a rebate will need to be created to guarantee the LD1220 sits flush with the front surface



Fixing directly into mounting surface

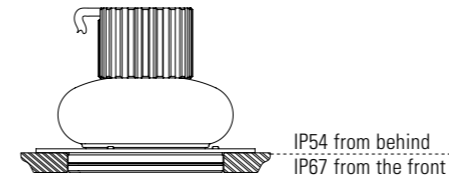
**Only recommended if this is being mounted into metal work with pre-drilled mounting holes!**

- > Because the fixing holes are so close to the edge of the cut-out this method will only work when mounting into a metal surface
- > This surface should have a maximum thickness of 5mm to allow the adjustment of the LD1220
- > The fixing holes in the ceiling mount ring need to be replicated in the fixing surface, and should only be attempted by a boat yard
- > This method is not suitable for mounting into wood or plaster board



Dimensions in mm

## IP RATING



## ORDER CODES AND OPTIONS

Product Code	LED Colour	Beam Angle	Accessories	Finish
LD1220-350				
-500				
-700				

Example: LD1220-350 / LW30 / MB / CMR140 / Polished Stainless Steel

PRODUCT CODES WITH OUTPUT OPTION

7W 350mA	<b>LD1220-350</b>
10W 500mA	<b>LD1220-500</b>
14W 700mA	<b>LD1220-700</b>

LED COLOUR OPTIONS

LED Colour	SUFFIX
Extra warm white (2700K)*	/LW27
Warm white (3000K)	/LW30
Cool white (5000K)	/LW50

\*2700K LEDs are available on special order

BEAM / LENS ANGLE OPTION

15° narrow spot	/NB
25° medium	/MB
40° wide	/WB

ACCESSORIES

Ceiling mount ring (black anodised)	/CMR140
Honeycomb louvre	/HL50

BEZEL FINISH OPTIONS

Paint finish black / white (RAL 9016) / RAL  
Polished and passivated stainless steel (marine grade polishing)

LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available

# LD242

## YACHT SPREADER LED LIGHT



This has been specifically designed for use on yacht spreaders to illuminate the deck or other spreaders below. It is fitted with the latest LED technology and machined from a solid billet of high grade aluminium. This is hard anodised making it resistant to harsh sea environments. The narrow 12 degree beam will light a deck from 9m.



### KEY FEATURES

- > Integral anti-wicking barrier increases protection against moisture ingress due to incorrect IP rated cable connections
- > 2 countersunk screws fix the body to the mounting surface
- > Hard anodised body for high resistance to sea environments
- > Range of beam angles
- > 12° beam will light a deck from 9m

### SPECIFICATION

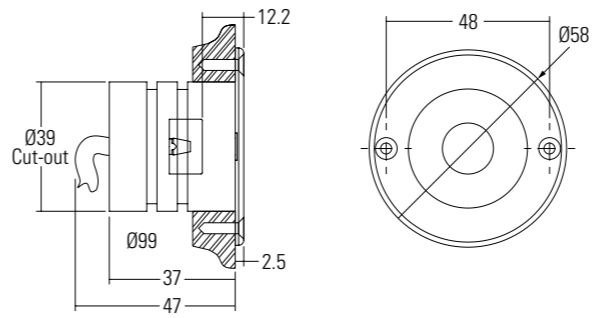
LED	1 x Cree XPG	
Max drive current	700mA	
Max LED power*	2.4W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L <sub>100</sub> )	123	191
Lumens per circuit watt	51	79
	58 (1.7W)	89 (1.7W)

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



### DIMENSIONS

*Dimensions in mm*



### ORDER CODES AND OPTIONS

Product Code	LED Colour	Beam Angle	Finish
<b>LD242-350</b>			
-500			
-700			
Example: LD242-350 / LW30 / MB / Hard anodised			

### PRODUCT CODES WITH OUTPUT OPTION

1.2W 350mA	<b>LD242-350</b>
1.7W 500mA	<b>LD242-500</b>
2.4W 700mA	<b>LD242-700</b>

### 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

\*2700K LEDs are available on special order

### BEAM / LENS ANGLE OPTION

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

### BEZEL FINISH OPTIONS

Hard anodised aluminium (gun metal grey)  
Paint finish black / white (RAL 9016) / RAL

### LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available



# LD11

## MINIATURE LOW PROFILE 24V LINEAR LED



LD11 is housed in a very low profile polycarbonate extrusion, allowing it to be used in very small details. A custom plastic mix was developed, which adds a slight frost for an even, diffused wash. Ideal for a range of architectural applications that include steps and small niche details.



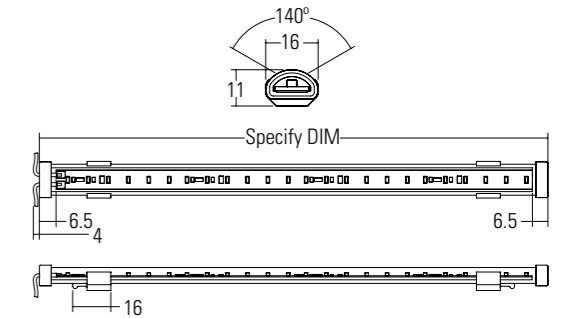
Design: Brilliant Lighting Project: Private residence Product: LD12

### KEY FEATURES

- > Choice of LED outputs depending on the application, including RGB
- > Economical solution compared to bare LED tape
- > Added advantage of protecting LEDs from impacts, dust and moisture
- > Range of fixing options depending on the detail
- > Flexible in the vertical plane to a minimum bend radius of 500mm
- > IP67 rated version for wet environments
- > Integral anti-wicking barrier on the IP67 version increases protection against moisture ingress, due to incorrect IP rated cable connections (excludes RGB version)
- > Lengths are custom made to suit to a maximum of 4022mm\*\*, so no dark spots!

### DIMENSIONS

Dimensions in mm



### SPECIFICATION

LED OUTPUT OPTIONS >	ECO 220 lm/m		SHORT 780 lm/m		RGB ECO 180 lm/m
	Applications	 Highlighting architectural details, steps		 Same applications as Eco but with increased output and closer pitch LEDs	
Description	Eco output tape		Short pitch tape		Eco RGB tape
Colour temperature*	3000K	4000K	3000K	5000K	-
Delivered lumens / m	220lm/m	240lm/m	780lm/m	850lm/m	180lm/m
Watts / m	3.6W/m		9.7W/m		6.5W/m
Lumens per watt	61lm/w		80lm/w		-
Voltage	24V		24V		24V
CRI	85		85		-

\* 2700K (LW27) extra warm white is available

\*\* Shipping and practicalities of installation need to be considered when specifying long lengths

Please see our website for more detailed technical information and photometric files

**FIXING OPTIONS**

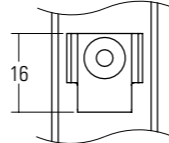
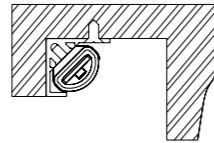
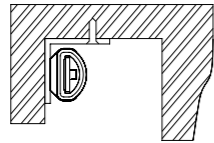
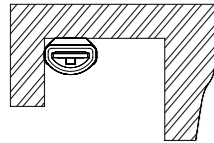
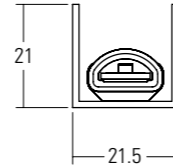
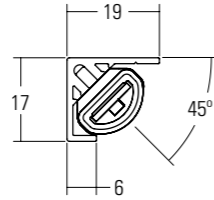
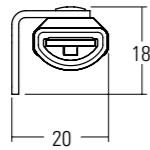
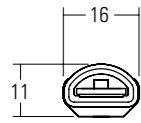
*Dimensions in mm*

/SC - Flat fixing clip

/LBM - 'L' bracket mounting. Comes with fixing clips attached.

/E1917 - Aluminium P channel angled at 45°. Ideal for shelf details. Silver anodised as standard. Comes with fixing clips attached.

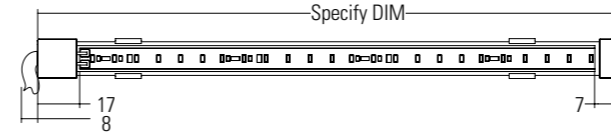
/E2121 - U channel is supplied in white as standard, and with clips attached. It is useful for details where glare is an issue or in details that require the LD11 to be hidden.



See our website for mounting details.

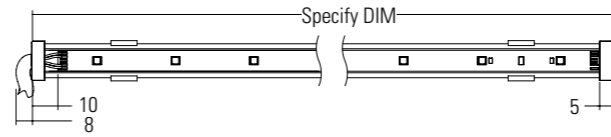
**IP67 RATED**

To achieve an IP67 rating, resin is used to seal each end of the product, and the cable upgraded to an exterior version. This does create a larger gap between the last LED and the end of the extrusion, so particular attention needs to be paid to the mounting detail to avoid a gap in the light between multiple lengths.



**RGB IP54 RATED**

The below dimensions apply to the IP54 rated RGB Eco LD11. This is to allow extra space to connect the 4 cables to the LED board.

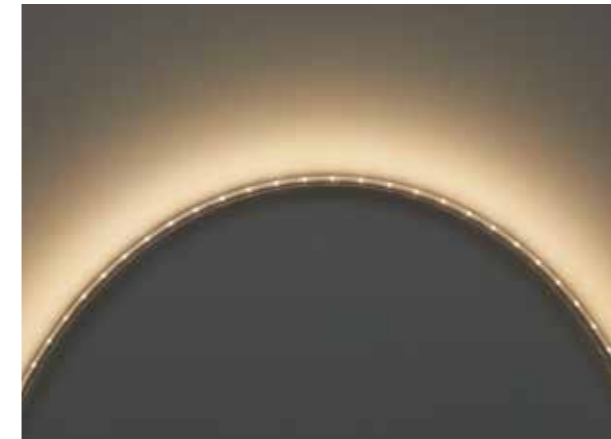


**LINKED LENGTHS**

Only the IP54 version in a single colour is available with multiple linked lengths. The IP67 version can have 1 link only. RGB lengths are not available with links.

**FLEXIBLE**

LD11 is flexible in the vertical plane (around the thinnest side) to a minimum bend radius of 500mm. Cable ties might be needed to fix the profile into the clips. Further details can be found on the instruction leaflet.



**ORDER CODES AND OPTIONS**

Product Code	LED	LED Colour	Fixing	IP rating	Length
<b>LD11</b>					
Example: LD11 / Eco / LW30 / SC / IP54 / 2000mm					

PRODUCT CODES WITH OUTPUT OPTION \_\_\_\_\_ SUFFIX

Eco	220lm/m	/Eco
Short	780lm/m	/Short
RGB Eco	180lm/m	/RGB Eco

LED WHITE COLOUR OPTIONS \_\_\_\_\_

Extra warm white (2700K)	/LW27
Warm white (3000K)	/LW30
Cool white (4000K Eco)	/LW40
Cool white (5000K Short)	/LW50

FIXING OPTIONS \_\_\_\_\_

Fixing clip (3 fixing clips supplied per metre)	/SC
L bracket mounting	/LBM
45° P channel	/E1917
U channel	/E2121

IP OPTIONS \_\_\_\_\_

IP54 (standard)	/IP54
IP67 rated for wet environments	/IP67

LED DRIVERS \_\_\_\_\_  
 Use with 24V constant voltage LED drivers. Please see page 196  
 1-10V, DMX, DALI dimmable drivers are available.



# LD22

HIGH POWER 24V LINEAR LED COVE LIGHT



LD22 is a very small, low profile linear system. Designed to maximise the light output with a broad beam, it is ideal for coves, shelf details, recesses and highlighting architectural details. It is a 24V DC system allowing long lengths to be powered from a single driver.

**Design Tip:** Our 900lm/m LGX9C board offers a more than adequate amount of light for a bright cove detail. At 12.5W/m it enables 12m to be run off one 150W driver.



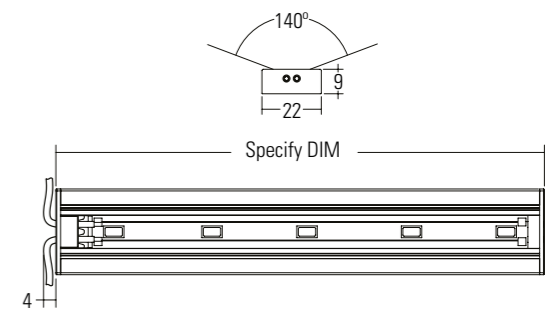
Product: LD22  
Project: 20 Fenchurch Street, The Walkie-Talkie  
Design: Maurice Brill Lighting Design

## KEY FEATURES

- > Choice of LED outputs depending on the application including RGB
- > Very low profile
- > Clear cover is supplied as standard. A frosted diffuser can be specified, creating a softer light effect which can be useful in tight details
- > A range of fixing options including a miniature adjustable bracket allows maximum flexibility
- > IP40 as standard with an IP54 option for pool/spa coffers (not exterior applications)
- > Lengths are custom made to suit to a maximum of 3000mm\*\*, so no dark spots!
- > Short pieces can be made interlinked to accommodate curves
- > Non-fade Rosco filters can be used to achieve colour temperatures of 2200K

## DIMENSIONS

Dimensions in mm



## SPECIFICATION

LED OUTPUT OPTIONS >	ECO 220 lm/m		LGX9C 900 lm/m		POWER 1700 lm/m		RGB 435 lm/m
	Eco output tape		LightGraphix high output LED board		Power flex tape		RGB tape
Description	Eco output tape		LightGraphix high output LED board		Power flex tape		RGB tape
Colour temperature*	3000K	4000K	3000K	5000	3000K	5000K	-
Delivered lumens / m	220lm/m	240lm/m	900lm/m	1000lm/m	1700lm/m	1800lm/m	435lm/m
Watts / m	3.6W/m		12.5W/m		22.7W/m		18W/m
Lumens per watt	61lm/w		70lm/w		70lm/w		24.1lm/m
Voltage (V)	24V		24		24V		24V
CRI	85		85		85		-

\* 2700K (LW27) extra warm white is available

\*\* Shipping and practicalities of installation need to be considered when specifying long lengths

Please see our website for more detailed technical information and photometric files



Project: Private residence  
Product: LD22  
Design: Spectron

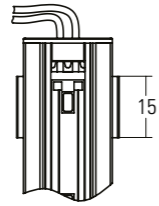
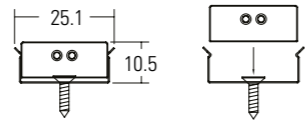


Product: LD22  
Project: Mandarin Oriental, London  
Design: Light + Design

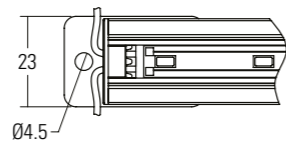
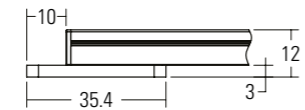
### FIXING OPTIONS AND DIMENSIONS

Dimensions in mm

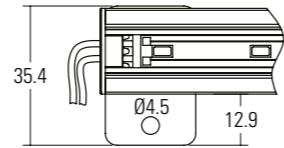
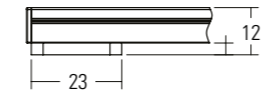
/SC - Flat fixing clip



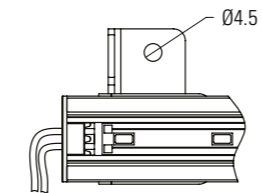
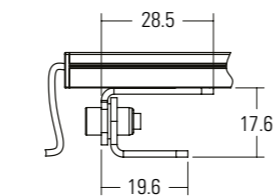
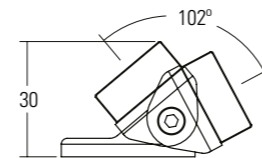
/BEM - Bracket end mounting



/BSM - Bracket side mounting



/ABM - Adjustable bracket mounting



### COVER OPTIONS

Frosted cover diffuses the light source and softens the beam edges

/CC - Clear cover

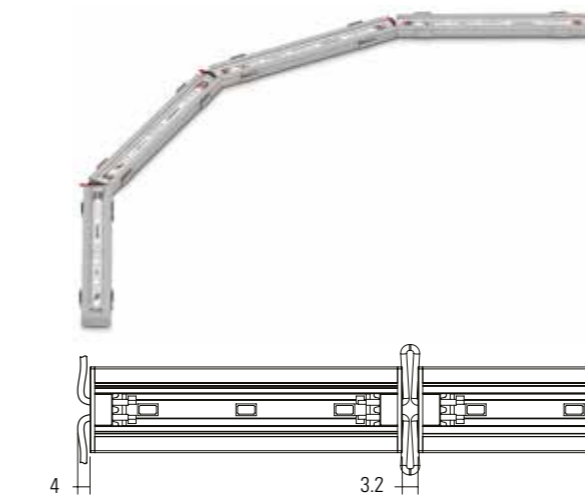


/FC - Frosted cover



### LINKED LENGTHS

LD22 can be linked to allow for curves. The length of each module depends on the LED used and the radius of the curve.



### ORDER CODES AND OPTIONS

Product Code	LED	LED Colour	Cover	Fixing	IP rating	Length
LD22						
Example: LD22 / LGX9C / LW30 / CC / SC / IP40 / 2000mm						

LED OUTPUT OPTION	SUFFIX
Eco 220lm/m	/Eco
LGX9C 900lm/m	/LGX9C
Power 1700lm/m	/Power
RGB 475lm/m	/RGB

LED COLOUR OPTIONS	SUFFIX
Extra warm white (2700K)	/LW27
Warm white (3000K)	/LW30
Cool white (4000K Eco)	/LW40
Cool white (5000K LGX9C, Power)	/LW50

COVER OPTIONS	SUFFIX
Clear cover	/CC
Frosted cover	/FC

FIXING OPTIONS	SUFFIX
Spring clips	/SC
Bracket end mounting	/BEM
Bracket side mounting	/BSM
Adjustable bracket mounting	/ABM

IP OPTIONS	SUFFIX
IP40 (internal use as standard)	/IP40
IP54 rated for moist environments (not for exterior use)	/IP54

LED DRIVERS  
Use with 24V constant voltage LED drivers. Please see page 196  
1-10V, DMX, DALI dimmable drivers are available.



# LD FLEXI

IP68 FLEXIBLE 24V LINEAR LED



LD Flexi is a robust, very shallow, IP68 rated flexible 24V linear LED product. Ideal for a range of architectural applications that include steps and underwater details.

**Please note colour shift:** Due to the resin being in contact with the LED there is a colour shift of around 600K to a cooler white colour temperature. This means the warmest white we can supply is 3300K which uses 2700K LED tape.

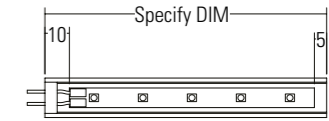
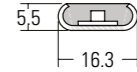


## KEY FEATURES

- > Choice of LED outputs depending on the application, including RGB
- > Specially designed PVC extrusion which is robust but very flexible with excellent resistance to chemical attack
- > LEDs are encapsulated in an optically clear UV resistant polyurethane resin
- > Fixing is by stainless steel fixing clips, with a choice of two depending on the installation detail
- > LD Flexi only bends in the vertical plane (around the thinnest side), to a minimum bend radius of 200mm
- > IP68 rated for underwater applications
- > Lengths are custom made to suit to a maximum of 3015mm\*\*

## DIMENSIONS

Dimensions in mm

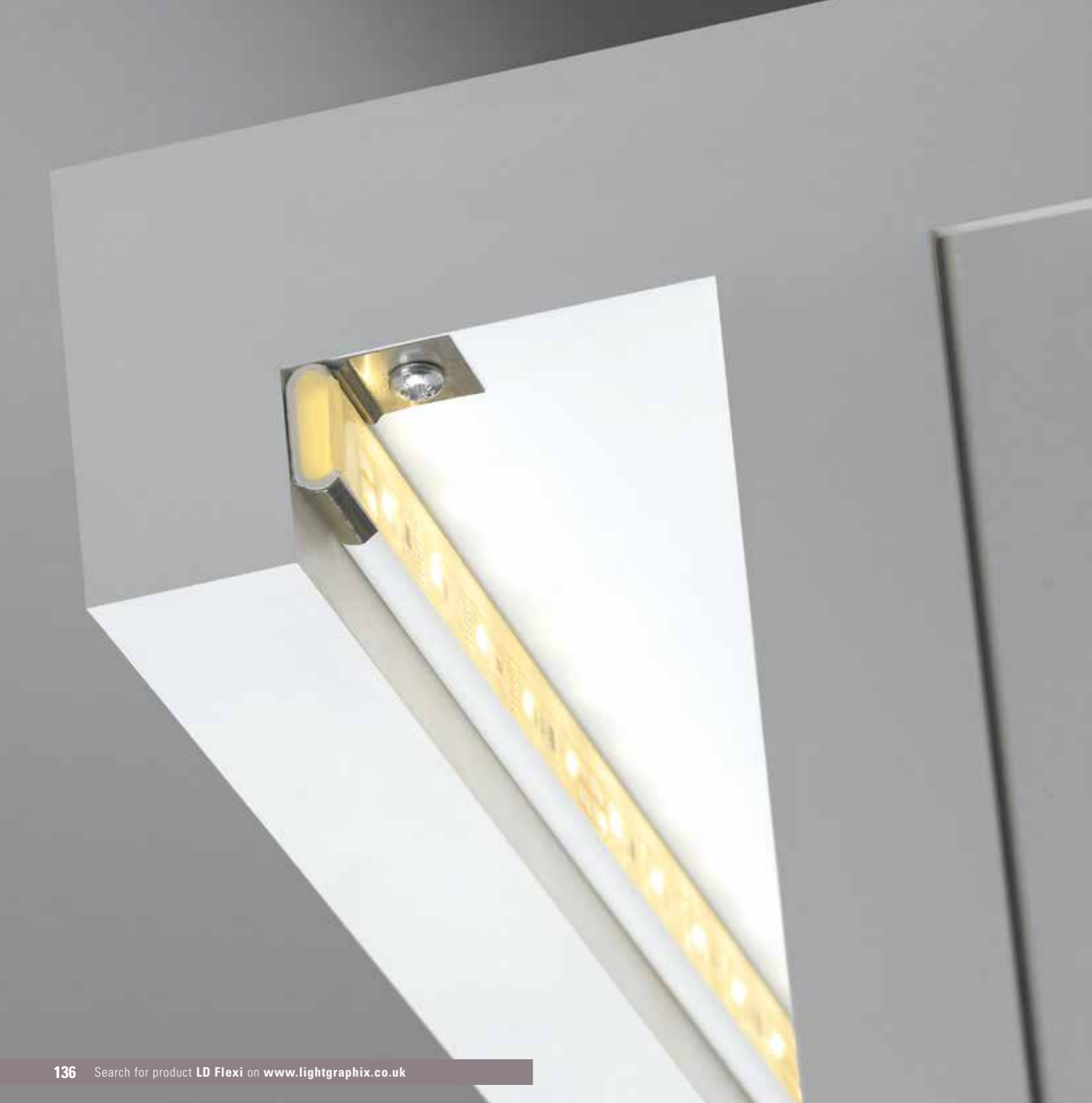


## SPECIFICATION

LED OUTPUT OPTIONS >	ECO 220 lm/m		SHORT 780 lm/m		RGB 435 lm/m
	Applications	 Highlighting architectural details, steps		 Same applications as Eco but with increased output and closer pitch LEDs	
Description	Eco output tape		Short pitch tape		RGB tape
Colour temperature	3300K (2700K)	4600K (4000K)	3300K (4000K)	5600K (5000K)	-
Delivered lumens / m	220lm/m	240lm/m	780lm/m	850lm/m	435lm/m
Watts / m	3.6W/m		9.7W/m		18W/m
Lumens per watt	61lm/w		80lm/w		24.1lm/m
Voltage (V)	24V		24		24V
CRI	85		85		-

\*\* Shipping and practicalities of installation need to be considered when specifying long lengths

Please see our website for more detailed technical information and photometric files

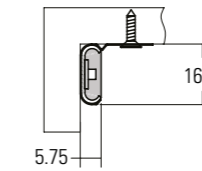
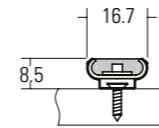
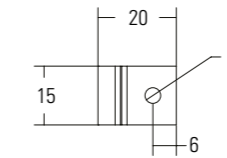
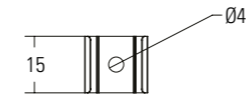


**FIXING OPTIONS**

*Dimensions in mm*

/FFC - Flat fixing clip

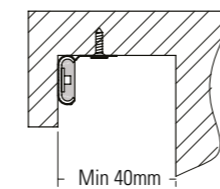
/AFC - Angled fixing clip



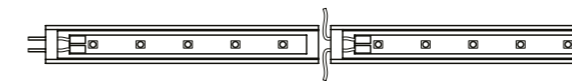
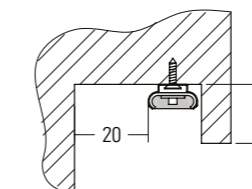
**SUGGESTED MOUNTING DETAILS**

We recommend the distances shown below when mounting multiple lengths end to end to ensure a continuous wash of light.

ANGLED FIXING CLIP



FLAT FIXING CLIP



**ORDER CODES AND OPTIONS**

Product Code	LED	LED Colour	Fixing option	Length
<b>LD Flexi</b>				
Example: LD Flexi / Eco / LW30 / AFC / 2000mm				

PRODUCT CODES WITH OUTPUT OPTION \_\_\_\_\_ SUFFIX

Eco	220lm/m	/Eco
Short	790lm/m	/Short
RGB Eco	475lm/m	/RGB

LED WHITE COLOUR OPTIONS \_\_\_\_\_

Warm white (3300K)	/LW33
Cool white (4600K Eco)	/LW46
Cool white (5600K Short)	/LW56

FIXING OPTIONS \_\_\_\_\_

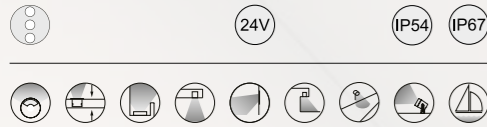
Angled fixing clip	/AFC
Flat fixing clip (3 fixing clips supplied per metre)	/FFC

LED DRIVERS \_\_\_\_\_  
 Use with 24V constant voltage LED drivers. Please see page 196  
 1-10V, DMX, DALI dimmable drivers are available.



# LD LINE 15

MINIATURE LOW PROFILE 24V LINEAR LINE OF LIGHT



LD Line 15 is an incredibly shallow line of light. It has been designed for indirect applications that require no spotting of LEDs. With a depth of only 15mm, it is ideal for shelves as shallow as 30mm and lighting polished/reflective surfaces. LightGraphix worked very closely with BWF in Germany to create a new polycarbonate extrusion based on their colourLED® technology. The special formulation, coupled with the built in reflector, resulted in a product that achieves no spotting from the LEDs whilst achieving minimal efficiency losses.



## KEY FEATURES

- > 15mm depth
- > No spotting of LEDs
- > Built in reflector
- > Extruded polycarbonate ColourLED® technology
- > Increased light transmission over conventional opal diffusers
- > Range of fixing options depending on the detail
- > Very minimal 1mm thick end caps
- > IP54 as standard
- > Rigid profile
- > IP67 rated version for wet environments
- > Very cost effective solution when IP40/44 is not enough, and the alternative is an expensive IP68 rated product
- > Lengths are custom made to suit to a maximum of 4013mm\*\*, so no dark spots!

## SPECIFICATION

LED	Short pitch LED	
Colour temperature*	3000K	5000K
Delivered lumens / (L <sub>100</sub> )	480lm/m	520lm/m
Watts/m	9.7W/m	
Lumens per watt	50lm/w	
Voltage (V)	24V	
CRI (typical)	85	

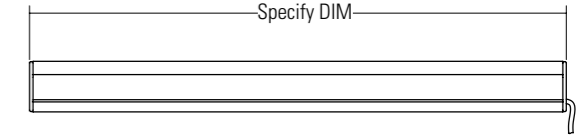
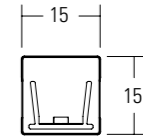
\* 2700K (LW27) extra warm white is available

\*\* Shipping and practicalities of installation need to be considered when specifying long lengths

Please see our website for more detailed technical information

## DIMENSIONS

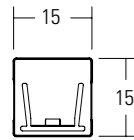
Dimensions in mm



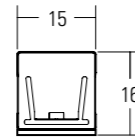
## FIXING OPTIONS

Dimensions in mm

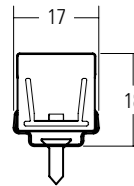
/NF - No fixing supplied. Product is bonded directly onto the mounting surface. Ideal for routed grooves in 30mm thick shelves.



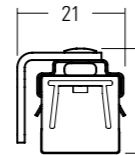
/3M - 3M adhesive tape is suitable for most applications and will provide a very good bond to metal, wood and painted surfaces. 1mm thickness allows for any bumps in the mounting surface. Ideal for routed grooves where the fitting needs to sit flush. Indoor applications only.



/SC - Stainless steel fixing clips are ideal for exterior environments. For example under steps or around water features.



/LBM - Stainless steel fixing clips are ideal for exterior environments. For example under steps or around water features.



Broad diffused beam, ideal for small details



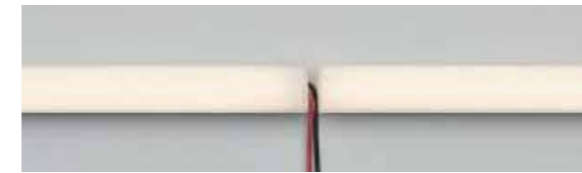
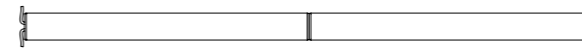
No spotting when used over reflective/polished surfaces

## MOUNTING DETAIL NOTES

End caps are only 1mm thick, and the material matches the linear profile, enabling a very neat join between two non-cable feed ends. The images show the IP54 rated version.



2 x 4m lengths can be used to create an 8m run.



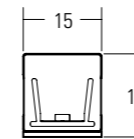
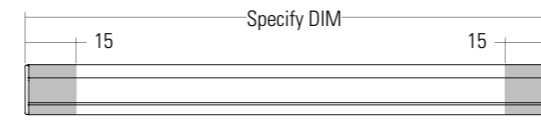
If more than 2 lengths are used (over 8m run) then they would need to be arranged as per above.



## IP67 RATED

/IP67 - LD Line 15 can be supplied as IP67. This can be very useful for lighting the edges of ponds or water features, where the LED can be seen in the reflection of the water.

To achieve an IP67 rating, resin is used to seal each end of the product. This produces a 15mm break between the end of the product and the LED. The result is a slightly less bright zone at each end.



## ORDER CODES AND OPTIONS

Product Code	LED	LED Colour	Fixing	IP rating	Length
<b>LD Line 15</b>					

Example: LD Line 15 / Short / LW30 / 3M / IP54 / 2000mm

PRODUCT CODES WITH OUTPUT OPTION \_\_\_\_\_ SUFFIX  
Short 480lm/m /Short

LED WHITE COLOUR OPTIONS \_\_\_\_\_  
Extra warm white (2700K) /LW27  
Warm white (3000K) /LW30  
Cool white (5000K) /LW50

FIXING OPTIONS \_\_\_\_\_  
No fixing /NF  
3M Tape /3M  
Fixing clip (3 fixings per metre) /SC  
L bracket (3 fixings supplied per metre) /LBM

IP OPTIONS \_\_\_\_\_  
IP54 (standard) /IP54  
IP67 rated for wet environments /IP67

LED DRIVERS \_\_\_\_\_  
Use with 24V constant voltage LED drivers. Please see page 196  
1-10V, DMX, DALI dimmable drivers are available





Product: LD Line 25 Exterior - Project: 10 Bloomsbury Way - Design: Light Bureau

## LD LINE 25 EXTERIOR

25MM WIDE EXTERIOR LINE OF LIGHT



LD Line 25 is an exterior rated LED homogenous line of light. It is custom made to suit the dimensions on site. Cut increments of 50mm allow lengths to fit into most details, with minimal dark spots.

**Note on in ground applications:** LD Line 25 can only be used for internal ground/floor applications.

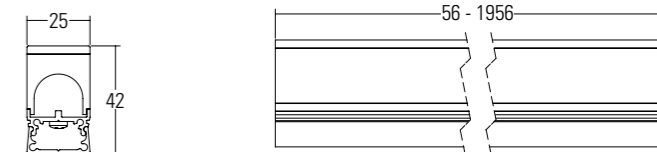


### KEY FEATURES

- > Completely homogeneous line of light
- > No spotting of LEDs
- > Multiple lengths can be installed end to end for a continuous line of light
- > Custom made lengths from 56mm to 1956mm
- > 50mm cut increments
- > Minimal recess depth
- > Surface or recessed mounted
- > First fix channel
- > Easy installation with innovative wiring method
- > IP67 as standard
- > Single colour
- > Not flexible
- > 15m can be run off one driver, please talk to us about driver locations and distances

### DIMENSIONS

*Dimensions in mm*



### SPECIFICATION

LED	Short pitch LED	
Colour temperature*	3000K	5000K
Delivered lumens / (L <sub>100</sub> )	390lm/m	410lm/m
Watts/m	9.7W/m	
Voltage (V)	24V	
CRI (typical)	85	

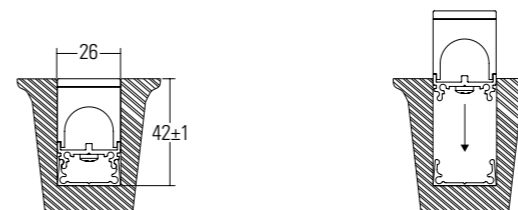
\* 2700K (LW27) extra warm white is available

\*\* Lumen data is estimated. Please check website for tested output results

Please see our website for more detailed technical information

### FIXING AND MOUNTING DETAILS

*Dimensions in mm*



The system has two parts. A first fix aluminium channel is screwed to the mounting surface. Allowing the main body to clip into this.



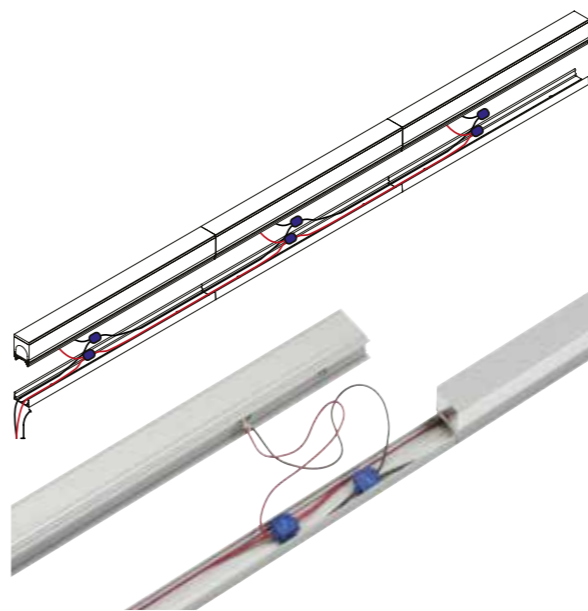
Product: LD Line 25 Exterior - Project: 10 Bloomsbury Way - Design: Light Bureau



Product: LD Line 25 Exterior - Project: 10 Bloomsbury Way - Design: Light Bureau

**WIRING**

LD Line 25 Exterior uses a bus wire to connect each length to the power supply. This makes for a very quick and easy installation.



**MULTIPLE LENGTHS**

Multiple lengths can be installed end to end to create a continuous line of light. 90° corners can be accommodated. Angled mitred corners are not possible.



**BROAD DIFFUSED BEAM**



**ORDER CODES AND OPTIONS**

Product Code	LED	LED Colour	Length
<b>LD Line 25 Exterior</b>			
Example: LD1030-350 / LW30 / NB / White			

LED LENGTH CODE \_\_\_\_\_ SUFFIX  
 Short 390lm/m /Short

LED WHITE COLOUR OPTIONS \_\_\_\_\_  
 Extra warm white (2700K) /LW27  
 Warm white (3000K) /LW30  
 Cool white (5000K) /LW50

LED DRIVERS \_\_\_\_\_  
 Use with 24V constant voltage LED drivers. Please see page 196  
 1-10V, DMX, DALI dimmable drivers are available.



# LD PICTURE LIGHT

## MINIATURE 24V LINEAR LED SYSTEM



LD picture lights are designed to light paintings and artwork effectively, which means with adequate light and good colour rendering with no UV. Depending on the finishes specified, they will suit projects with either period or contemporary furnishings and décor.



Design: Brilliant Lighting

Product: LD Picture Light

Project: Private residence

### KEY FEATURES

- > Very slim profile for minimal viewing angle
- > Height adjustable with 90deg tilt head
- > LED assembly is set deep within the profile for reduced glare
- > Very lightweight
- > High quality look and feel with machined end caps and brass arms
- > Standard lengths and custom lengths available
- > Clear and frosted covers (frosted does not remove the LED spots)

### SPECIFICATION

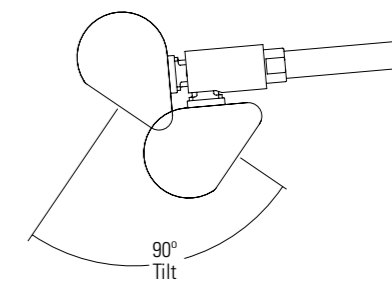
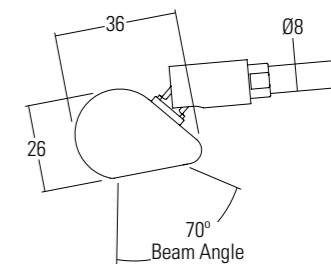
LED	LGX9C LightGraphix LED board	
Colour temperature*	3000K	5000K
Delivered lumens / (L <sub>100</sub> )	900lm/m	1000lm/m
Watts/m	12.5W/m	
Voltage	24	
CRI (typical)	85	

\* 2700K (LW27) extra warm white is available

Please see our website for more detailed technical information

### DIMENSIONS

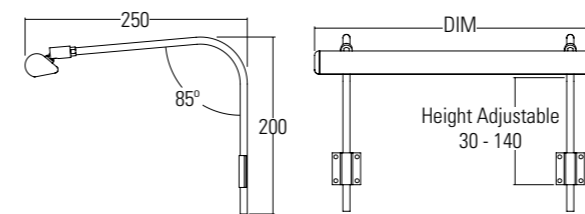
Dimensions in mm





#### FIXING OPTIONS AND DIMENSIONS

Dimensions in mm



#### WET SPRAY FINISHES

LightGraphix has had four custom colours made up to allow us to give a much closer match to our anodised finishes. This allows us to match the finish of all the component parts of the LED picture light, which is manufactured from many different materials.

/ANTIQUE BRONZE



/SATIN ANTIQUE BRASS



/SATIN BRASS



/SILVER ANODISED



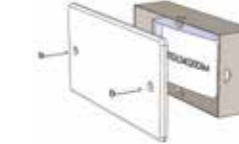
#### MOUNTING A DRIVER BEHIND A PICTURE

If the LED driver can not be located remotely then one of the drivers below can be located in a box recessed into the wall behind the picture (wall box supplied by others).

TXDA24008 (8W) - Non dim, to suit standard single gang wall box



TXDL24020DIM (20W) - 1-10V dim, to suit standard double gang wall box



#### ORDER CODES AND OPTIONS

Product Code	LED Colour	Cover	Finish
LD-***			
Example: LD PL275 / LW30 / CC / White RAL 9001			

#### LED LENGTH CODE

220mm (2W) - single arm only	<b>LD-PL220</b>
275mm (3W)	<b>LD-PL275</b>
350mm (4W)	<b>LD-PL350</b>
425mm (5W)	<b>LD-PL425</b>
510mm (6W)	<b>LD-PL510</b>
660mm (8W)	<b>LD-PL660</b>
Custom Lengths up to 1900mm (over 1200mm requires 3 arms)	<b>LDPL-SP ****</b>

#### LED COLOUR OPTIONS

LED COLOUR OPTIONS	SUFFIX
Extra warm white (2700K)	/LW27
Warm white (3000K)	/LW30
Cool white (5000K)	/LW50

#### COVER OPTIONS

Clear cover	/CC
Frosted cover (recommended)	/FC

#### FINISH OPTIONS

Paint finishes – Matt white RAL 9016, Cream white RAL9001, Matt black 9005, Antique bronze, Satin antique brass, Satin brass, Silver anodised  
Special finishes – Chrome or nickel plated  
(please see our finishes guide on page 204)

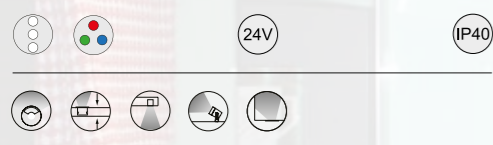
#### LED DRIVERS

Use with 24V constant voltage LED drivers. Please see page 198  
1-10V, DMX, DALI dimmable drivers are available.



# LD PRISMEX

MADE TO MEASURE LED LIGHT PANELS



LD Prismex has been redesigned, and is now a 24V LED system. This has allowed a smaller LED profile to be designed, and reduces the quantity of LED drivers needed. It is an ideal product for back bar/shelving lighting, light boxes with restricted depth and back lighting to signage/posters.

**Design Tip:** Our 900lm/m LGX9C board offers a more than adequate amount of light for most details. It also has the smallest LED cut increments of 75mm so we can get closer to the requested dimensions.



## KEY FEATURES

- > Choice of LED outputs depending on the application, including RGB
- > Only 24mm depth which includes a frosted panel
- > Custom made to size
- > White or coloured frosted panels available
- > Maximum usable lit area 1460mm x 2980mm
- > Multiple panels can be butted up for larger applications
- > 1460mm is the maximum distance between the LED strips

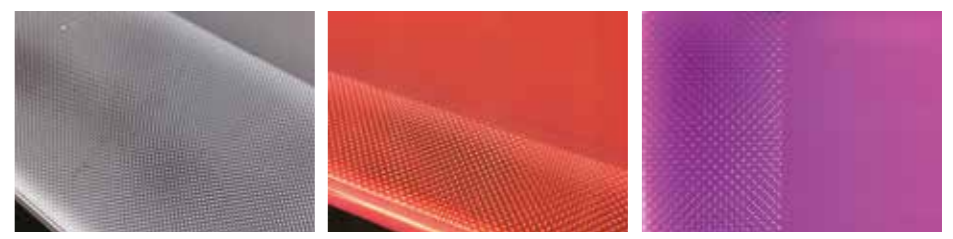
## SPECIFICATION

LED OUTPUT OPTIONS >	LGX9C 900 lm/m**		POWER 1700 lm/m**		RGB 435 lm/m**
Description	LightGraphix high output LED board		Power flex tape		RGB tape
Colour temperature*	3000K	4000K	3000K	5000K	-
Delivered lumens/m ** (L <sub>100</sub> )	900lm/m	1000lm/m	1700lm/m	1800lm/m	435lm/m
Watts/m	12.5W/m		22.7W/m		18W/m
Lumens per watt	70lm/w		70lm/w		24.1lm/w
Voltage (V)	24V		24V		24V

\* 2700K (LW27) extra warm white is available  
 \*\* Lumen output is from the LEDs only, no lumen output data is available for the prismex panel

Please see our website for more detailed technical information

## PRISMEX TECHNOLOGY

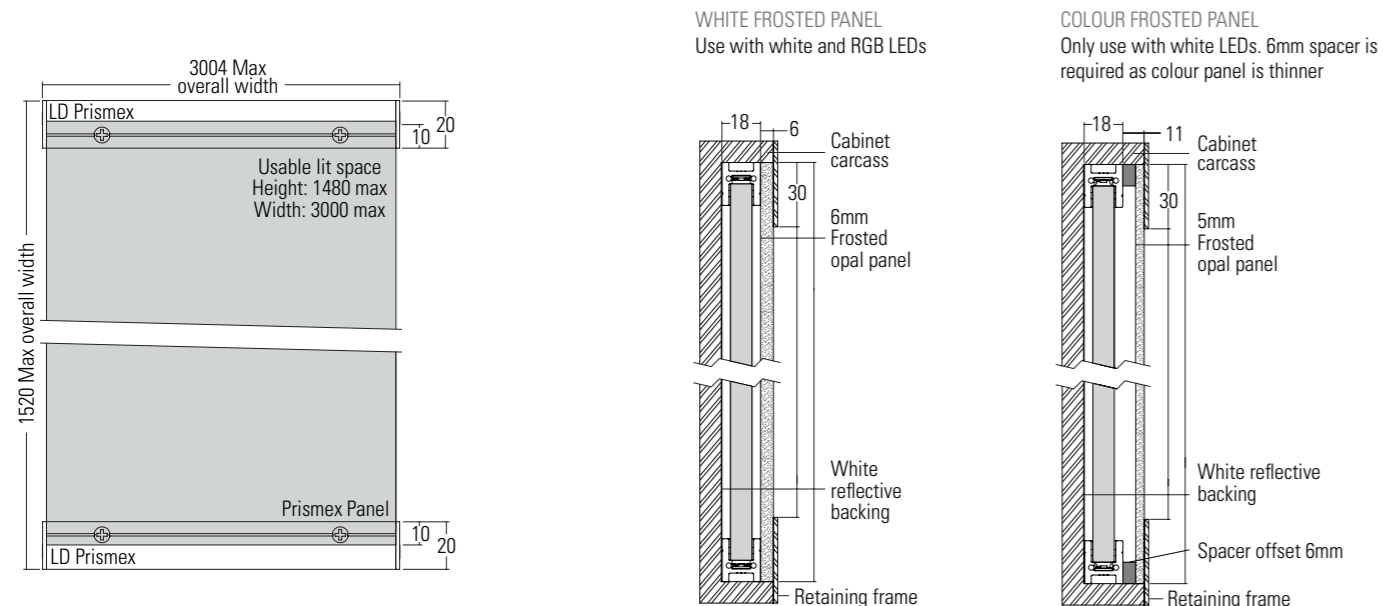


Prismex panels are made from clear acrylic which has a custom white dot matrix screen printed onto both sides. The size of the dots vary in size depending on how far they are from the light source. The further away they are the larger the dots, and the more light these reflect. When used with a frosted panel this creates an even glow.

## FIXING OPTIONS AND DIMENSIONS

Dimensions in mm

Prismex panels need to be illuminated from 2 sides to achieve an even panel of light. The diagrams below show a typical installation detail. Both the prismex and the frosted panels need to be secured by a retaining frame which would be part of the joinery detail.



## MULTIPLE PANELS BUTTED TOGETHER

Dimensions in mm

When multiple panels are needed, LD Prismex can be supplied with no end caps to allow a seamless join to the next panel. To reduce any dark spots between panels we recommend a 10mm spacer is used between the prismex and the frosted panel.



## ORDER CODES AND OPTIONS

Product Code	LED Output	LED Colour	Frosted Panel	Size
<b>LD Prismex</b>				
Example: LD Prismex / LGX9C / LW30 / White frosted / 1200mm				

LED OUTPUT OPTIONS \_\_\_\_\_ SUFFIX  
 LGX9C /LGX9C  
 Power /Power  
 RGB /RGB

LED COLOUR OPTIONS \_\_\_\_\_  
 Extra warm white (2700K) /LW27  
 Warm white (3000K) /LW30  
 Cool white (5000K) /LW50

FROSTED PANEL OPTIONS \_\_\_\_\_  
 White frosted panel (030 opal polar frost)  
 Colour frosted panel (specify colour e.g. chilli red frost)

SIZE \_\_\_\_\_  
 The size specified needs to include the LED lengths so overall dimensions (please bear in mind the usable lit space)

LED DRIVERS \_\_\_\_\_  
 Use with 24V constant voltage LED drivers. Please see page 196  
 1-10V, DMX, DALI dimmable drivers are available.



# LD26 & LD26A

HIGH POWER LINEAR REFLECTOR LED SYSTEM



LD26 comes in two versions. A symmetric 82° reflector (LD26) and the LD26A with an asymmetric reflector tilted at 8deg. By mounting the LEDs within a linear reflector, there is no uneven spotting from lenses or loss of output from just using the LED itself. Designed with the latest LED technology to create a continuous wash, the LED spacing is maintained across multiple lengths, so no dark spots! It offers great flexibility to the designer, with a range of options that suit most applications, details and project budgets.



Product: Custom LD25 Linear LED Lighting Design: Fieldworks Design Consultants

## KEY FEATURES

- > Superb continuous lighting capabilities
- > Maintained LED spacing across multiple lengths
- > Reflectors focus the light to where it is needed
- > Custom made lengths as standard, up to 2.1m
- > Linked version available for curved applications
- > High power for its compact size

## SPECIFICATION

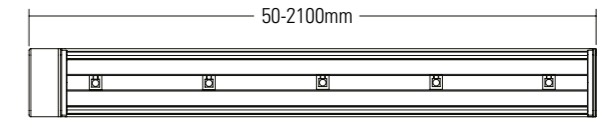
LED	Cree XPG	
Max drive current	500mA	
Max LED power per metre*	34W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens / (L <sub>100</sub> )		
50mm spacing	1857	2862
75mm spacing	1313	2022
100mm spacing	1023	1538
Lumens per circuit watt	55	84

\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files

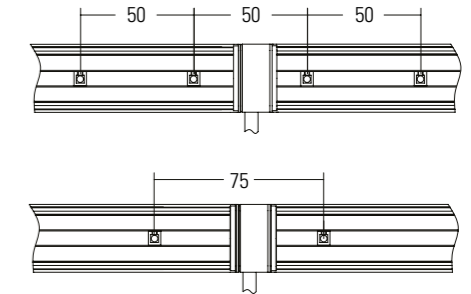
## DIMENSIONS

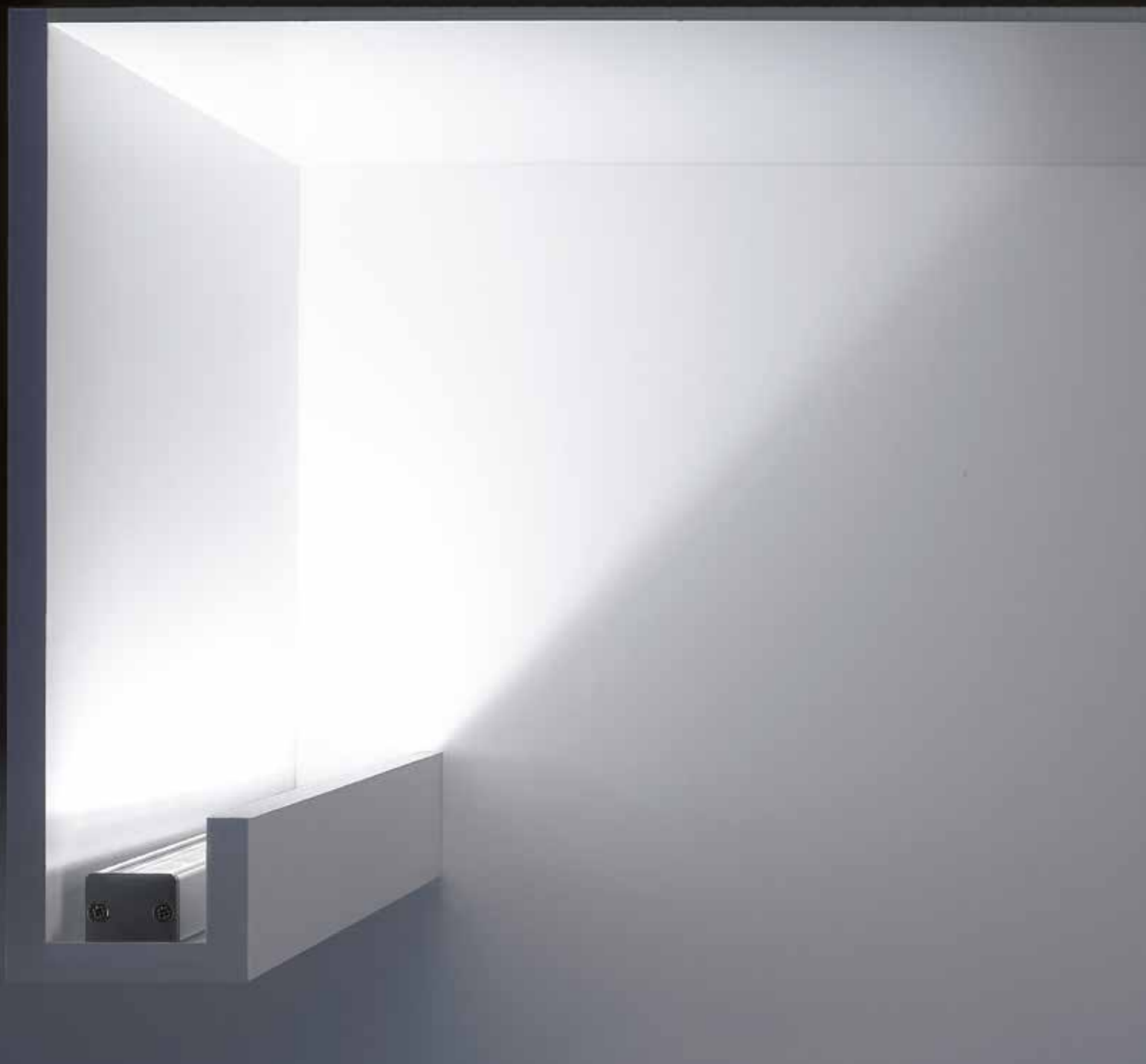
Dimensions in mm

Custom made lengths



LED spacing maintained over multiple lengths

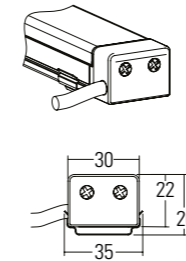




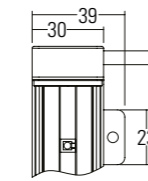
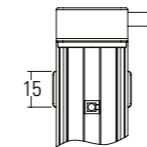
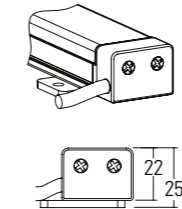
**FIXING OPTIONS AND DIMENSIONS**

*Dimensions in mm*

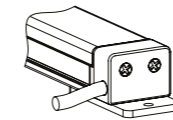
/SC - Spring Clip Fixing



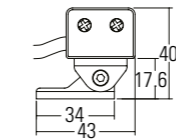
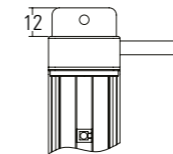
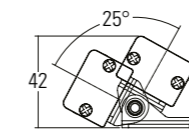
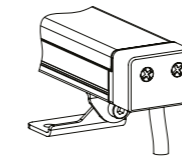
/BSM - Bracket Side Mounting



/BEM - Bracket End Mounting  
Max 1000mm length



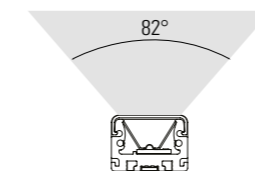
/ABM - Adjustable Bracket Mounting



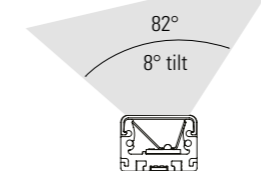
**REFLECTOR OPTIONS**

*Dimensions in mm*

LD26 - Symmetric



LD26A - Asymmetric



**ORDER CODES AND OPTIONS**

Product Code	LED Colour	Lens Spacing	Fixing	Cable Entry	IP rating	Length
<b>LD26 (A)-350-500</b>						
Example: LD26-500 / LW30 / 50 / ABM / SCE / IP40 / 1200mm						

PRODUCT CODES WITH OUTPUT OPTION

1.2W 350mA	<b>LD26(A)-350</b>
1.7W 500mA	<b>LD26(A)-500</b>

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

\*2700K LEDs are available on special order

LED SPACING

50mm	/50
75mm	/75
100mm	/100

FIXING OPTIONS

Spring clips	/SC
Bracket end mounting	/BEM
Bracket side mounting	/BSM
Adjustable bracket mounting	/ABM

CABLE ENTRY OPTIONS

Side cable entry	/SCE
Rear cable entry	/RCE
End cable entry	/ECE

IP OPTIONS

IP40 (internal use as standard)	/IP40
IP54 rated for moist environments	/IP54

LED DRIVERS

Use with 350mA or 500mA constant current LED drivers. Please see page 188 Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available

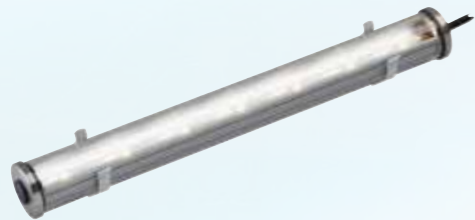


# LD26 & LD26A IP66

HIGH POWER LINEAR REFLECTOR  
LED SYSTEM



LD26 is now offered in a re-designed IP66 rated housing to reduce the cost per metre. This makes it a far more cost effective solution for lighting walls in showers where IP54 is not a high enough rating, and IP68 is not cost effective. It is a reflector based linear system which has been designed to produce a continuous, even wash with the latest in LED technology. By mounting the LEDs within a linear reflector, there is no uneven spotting from lenses or loss of output from just using the LED itself. It comes in two versions, LD26 with a symmetric 82° reflector and the LD26A with an asymmetric reflector tilted at 8°.



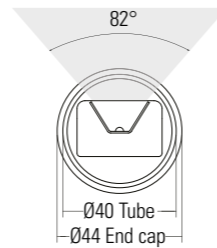
Project: Four Seasons Hotel, Amman Product: LD26 Design: Lighting Design International

## KEY FEATURES

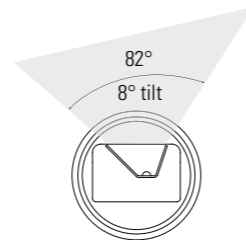
- > Superb continuous lighting capabilities
- > IP66 rated for bathrooms and showers
- > Reflectors focus the light to where it is needed
- > Custom made lengths as standard
- > High power for its compact size

## REFLECTOR OPTIONS

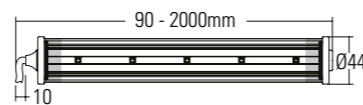
LD26 - Symmetric



LD26A - Asymmetric



Custom made lengths



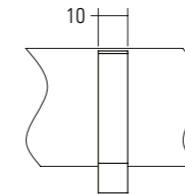
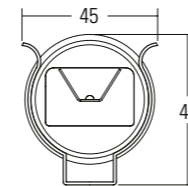
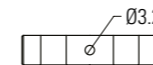
## SPECIFICATION

LED	Cree XPG	
Max drive current	500mA	
Max LED power per metre*	34W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens / (L <sub>100</sub> )		
50mm spacing	1857	2862
75mm spacing	1313	2022
100mm spacing	1023	1538
Lumens per circuit watt	55	84

\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files

## FIXING OPTIONS AND DIMENSIONS

Dimensions in mm



## ORDER CODES AND OPTIONS

Product Code	LED Colour	LED Spacing	Fixing Option	Length
<b>LD26 (A)</b>				
<b>-350 IP66</b>				
<b>-500 IP66</b>				
Example: LD26-500 IP66 / LW30 / 50 / SC / 2000mm				

## PRODUCT CODES WITH OUTPUT OPTION

1.2W 350mA	<b>LD26(A)-350 IP66</b>
1.7W 500mA	<b>LD26(A)-500 IP66</b>

## LED COLOUR OPTIONS

LED Colour	SUFFIX
Extra warm white (2700K)*	/LW27
Warm white (3000K)	/LW30
Cool white (5000K)	/LW50
Blue	/LB
Green	/LG
Red	/LR
Amber	/LA

\*2700K LEDs are available on special order

## LED SPACING

50mm	/50
75mm	/75
100mm	/100

## PRODUCT COLOUR

Silver anodised	
-----------------	--

## FIXING OPTIONS

Spring clips	/SC
--------------	-----

## LED DRIVERS

Use with 350mA or 500mA constant current LED drivers. Please see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available

# LD30

## HIGH POWER LINEAR REFLECTOR LED SYSTEM



350 mA

500 mA

IP40



The ultra slim profile is the ideal lighting solution for display cases. The LEDs are mounted within a unique linear reflector system which creates a very even and focused beam with no spotting from lenses or loss of output from just using the LED itself. For its size this system packs a huge punch! LD30 offers great flexibility to the designer, with a range of options that suit most applications, details and project budgets.



Project: Goldsmiths

### KEY FEATURES

- > Superb continuous lighting capabilities
- > Multiple point sources create maximum sparkle
- > High power for compact size
- > 5 different mounting options
- > Reflector focuses the light where it is needed
- > LED spacing of 50, 75 and 100mm are available, allowing cost savings with fewer LEDs and drivers whilst still achieving the desired effect
- > Custom made lengths as standard

### SPECIFICATION

LED	Cree XPG	
Max drive current	500mA	
Max LED power per metre*	34W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens / (L <sub>100</sub> )		
50mm spacing	1857	2862
75mm spacing	1313	2022
100mm spacing	1023	1538
Lumens per circuit watt	55	84

\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files

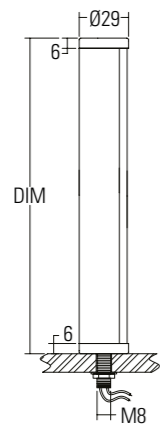




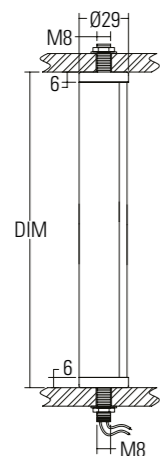
**MOUNTING OPTIONS AND DIMENSIONS**

*Dimensions in mm*

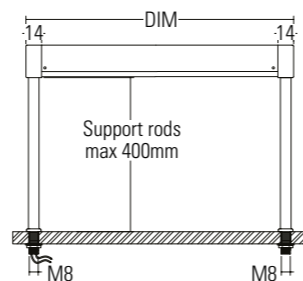
/M1 - Method 1 - Profile fixed from one end using M8 all-thread and nut. Cable exit through all-thread. Specify Dim.



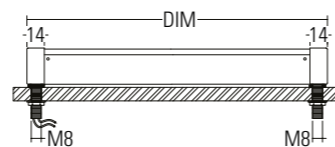
/M2 - Method 2 - Profile fixed from both ends using M8 all-thread and nut. Cable exit through all-thread and can be either end. Specify Dim.



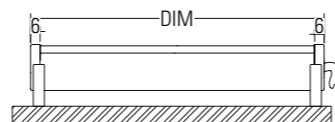
/M3 - Method 3 - Profile is mounted in a 'goal post' configuration. To direct the light output by 350° loosen M3 grub screws and rotate profile. Specify Dim.



/M4 - Method 4 - Profile fixed from one end using M8 all-thread and nut. Cable exit through all-thread. Specify Dim.



/M5 - Method 5 - Linear profile is fixed using spring fixing clips which are screwed to the surface, cables exit one or both ends. Specify Dim.



**THERMALS**

Max ambient temp. @ 50mm spacing:-  
 350mA - 45°C  
 500mA - 35°C  
 Requires consideration in small, unventilated display cabinets.



**ORDER CODES AND OPTIONS**

Product Code	LED Colour	Lens Spacing	Cover	Mounting Method	Length (DIM)	Finish
<b>LD30-350-500</b>						
Example: LD30-350 / LW30 / 50 / CC / M1 / 1000mm / Silver anodised						

PRODUCT CODES WITH OUTPUT OPTION

1.2W 350mA	<b>LD30-350</b>
1.7W 500mA	<b>LD30-500</b>

LED COLOUR OPTIONS

Extra warm white (2700K)*	SUFFIX /LW27
Warm white (3000K)	/LW30
Cool white (5000K)	/LW50
Blue	/LB
Green	/LG
Red	/LR
Amber	/LA

\*2700K LEDs are available on special order

LED SPACING

50mm	/50
75mm	/75
100mm	/100

COVER OPTIONS

Clear cover	/CC
Frosted cover	/FD

MOUNTING METHOD

Method 1	/M1
Method 2	/M2
Method 3	/M3
Method 4	/M4
Method 5	/M5

FINISH OPTIONS

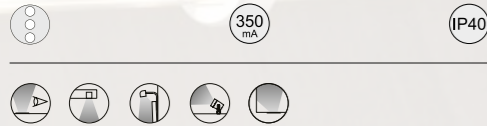
Silver anodised (standard)  
 Black anodised  
 Bronze anodised  
 Paint finish white / black / RAL (only available with LD30-350)

LED DRIVERS

Use with 350mA or 500mA constant current LED drivers. Please see page 188  
 Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available

# LD30HR

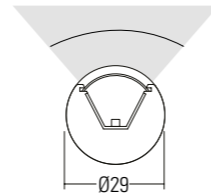
## LINEAR LED HANGING RAIL



The ultra slim profile creates a very neat way of illuminating clothes in wardrobes. The unique linear reflector system where the LEDs are mounted within it, creates a very even and focused beam with no spotting from lenses or loss of output from just using the LED itself. The deep recessed position and non specular reflector keeps glare to a minimum. Our experience is that 75mm spacing provides an adequate level of light for this application.

### KEY FEATURES

- > Ultra slim profile
- > 93CRI LEDs
- > Great colour rendering on the clothes below
- > Low glare
- > 75mm LED spacing recommended
- > Silver anodised finish recommended as this is the hardest wearing
- > Custom made lengths to suit on site dimensions



### SPECIFICATION

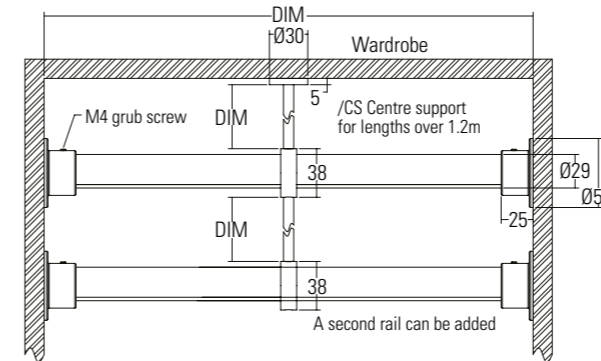
LED	Cree XPG	
Max drive current	350mA	
Max LED power per metre*	24W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens / (L <sub>100</sub> )		
50mm spacing	1417	2195
75mm spacing	1030	1550
100mm spacing	810	1183
Lumens per circuit watt	55	84

\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files

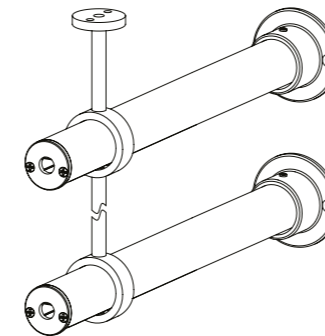
### MOUNTING DETAILS AND DIMENSIONS

Dimensions in mm

Specify dimensions



Cable entry is via the ends of the extrusion.



### ORDER CODES AND OPTIONS

Product Code	LED Colour	Lens Spacing	Cover	Fixing	Length (DIM)	Finish
<b>LD30-350HR</b>						
Example: LD30-350HR / LW30 / 50 / CC / M1 / 1000mm / Silver anodised						

### PRODUCT CODES WITH OUTPUT OPTION

1.2W 350mA

**LD30-350HR**

### LED COLOUR OPTIONS

Extra warm white (2700K)\*

Warm white (3000K)

Cool white (5000K)

\*2700K LEDs are available on special order

### SUFFIX

/LW27

/LW30

/LW50

### LED SPACING

50mm

/50

75mm

/75

100mm

/100

### COVER OPTIONS

Clear cover

/CC

Frosted cover

/FD

### FIXING OPTION

Central support

/CS

### FINISH OPTIONS

Silver anodised (standard)

Black anodised

### LED DRIVERS

Use with 350mA or 500mA constant current LED drivers. Please see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available



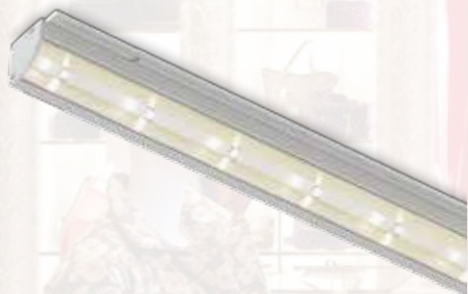


# LD32

## HIGH POWER LINEAR REFLECTOR LED SYSTEM



Designed specifically for under shelf lighting, the high CRI LEDs are mounted at 30° and integrated around a broad beam 102° reflector. When surface mounted at the front edge of the shelf the entire area will be illuminated.



Design: Nulty Lightings Design Project: Jivey Couture, London Product: LD32



### KEY FEATURES

- > Low glare with the LEDs set back into the profile within the broad beam reflector
- > Illuminates entire shelf area
- > By mounting the LEDs within a linear reflector, the light is focused to where it is needed with no loss of output from just using the LED itself.
- > Clear cover is supplied as standard. A frosted diffuser can be specified, creating a softer light effect which can be useful in tight details
- > LED spacings of 50mm and 75mm are available, allowing cost savings with fewer double space LEDs and drivers whilst still achieving the desired effect
- > Lengths are custom made to suit to a maximum of 2.1 metres, with LED spacing maintained between lengths, so no dark spots!

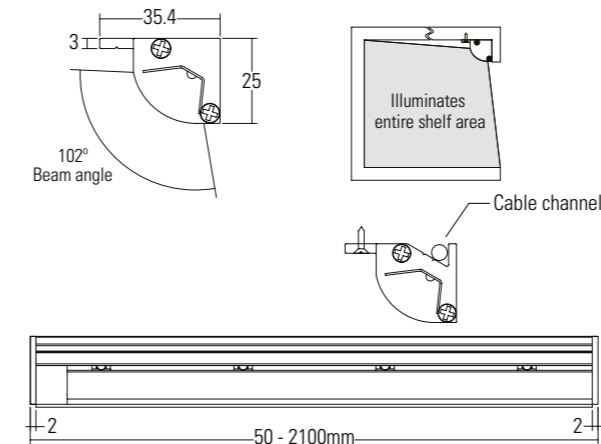
### SPECIFICATION

LED	Cree XPG	
Max drive current	500mA	
Max LED power per metre*	34W	
Colour temperature	3000K	5000K
CRI (typical)	93	80
Delivered lumens / (L <sub>100</sub> )		
50mm spacing	1857	2862
75mm spacing	1313	2022
100mm spacing	1023	1538
Lumens per circuit watt	55	84

\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files

### DIMENSIONS

Dimensions in mm



### ORDER CODES AND OPTIONS

Product Code	LED Colour	LED Spacing	Cover	Length
<b>LD32-350</b>				
<b>-500</b>				
Example: LD32-500 / LW30 / 50 / CC / 1200mm				

### PRODUCT CODES WITH OUTPUT OPTION

1.2W 350mA	<b>LD32-350</b>
1.7W 500mA	<b>LD32-500</b>

### LED COLOUR OPTIONS

LED Colour	SUFFIX
Extra warm white (2700K)*	/LW27
Warm white (3000K)	/LW30
Cool white (5000K)	/LW50

\*2700K LEDs are available on special order

### LED SPACING

50mm	/50
75mm	/75

### COVER

Clear cover (standard)	/CC
Frosted diffuser	/FD
Opal diffuser	/OD

### LED DRIVERS

Use with 350mA or 500mA constant current LED drivers. Please see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available



Design: Nulty Lightings Design Project: DKNY, London Product: LD32





# LD36

## HIGH POWER LINEAR LENSED LED SURFACE WASHER

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LD36 surface washer offers superb continuous wall washing capabilities, from a very compact product. It offers great flexibility to the designer with a range of options that suit most design details and applications.



### KEY FEATURES

- > Excellent wall wash capabilities
- > Uses the latest in LED technology
- > LED spacing is maintained across multiple lengths, so no dark spots!
- > High efficiency optics specially designed for LightGraphix guarantee excellent beam spread and shape
- > LED spacing of 50, 75 and 100mm are available, allowing cost savings with fewer LEDs and drivers whilst still achieving the desired effect
- > 4 fixing options are offered, which include a mini adjustable bracket, ideal for coffers
- > IP40 as standard with an IP54 option for wet environments
- > Short pieces can be made interlinked to accommodate curves
- > More cost effective than using a linked system for an entire project
- > Exactly the same product used for both straight and linked sections
- > Lengths are custom made, up to 2.1m

### SPECIFICATION

LED	Cree XPG	
Max drive current	500mA	
Max LED power per metre*	34W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens / (L <sub>100</sub> )		
50mm spacing	1860	2567
75mm spacing	1347	1812
100mm spacing	1037	1395
Lumens per circuit watt	56	75

*\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files*



Design: Light Bureau Project: Marconi House, London Product: LD36

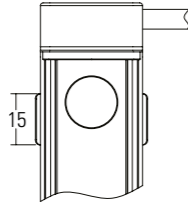
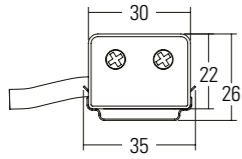


## FIXING OPTIONS AND DIMENSIONS

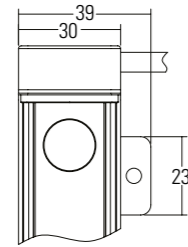
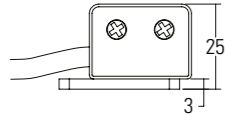
Dimensions in mm

Cable entry is from the side as standard. With the adjustable brackets it is rear cable entry.

### /SC Spring Clip Fixing



### /BSM Bracket Side Mounting

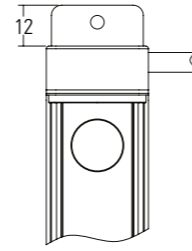
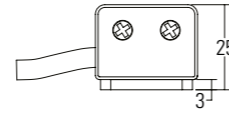


## LINKED SECTIONS

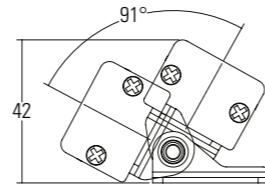
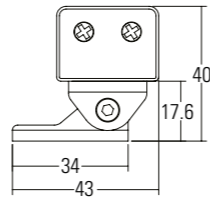
Around curves LD36 can be specified in smaller sections depending on the radius. These are hard wired together so the LED spacing is maintained.



### /BEM Bracket End Mounting (max 1200mm length)



### /ABM Adjustable Bracket Mounting



## ACCESSORIES

/GL36  
Anti glare louvre. Please note this is always supplied in black finish.



Project: Harrods Ice Cream Parlour Product: LD36

## ORDER CODES AND OPTIONS

Product Code	LED Colour	Lens Spacing	Beam Angle	Cover Colour	Fixing Option	IP rating	Accessory	Length
<b>LD36-350-500</b>								
Example: LD36-500 / LW30 / 50 / OB / White / ABM / IP40 / GL36 / 1200mm								

PRODUCT CODES WITH OUTPUT OPTION	
1.2W LEDs at 350mA	<b>LD36-350</b>
1.7W LEDs at 500mA	<b>LD36-500</b>

LED COLOUR OPTIONS	SUFFIX
Extra warm white (2700K)*	/LW27
Warm white (3000K)	/LW30
Cool white (5000K)	/LW50
*2700K LEDs are available on special order	

LED SPACING	
50mm	/50
75mm	/75
100mm	/100

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

PRODUCT COLOUR	
White or RAL - lens cover only (extrusion is silver anodised)	
Black - End caps, lens cover and extrusion all black	

FIXING OPTION	
Spring clips	/SC
Bracket end mounting (max length 1.2m)	/BEM
Bracket side mounting	/BSM
Adjustable bracket mounting	/ABM

IP OPTION	
IP40 (internal use as standard)	/IP40
IP54 rated for moist environments	/IP54

ACCESSORY	
Linear anti glare louvre (Black)	/GL36

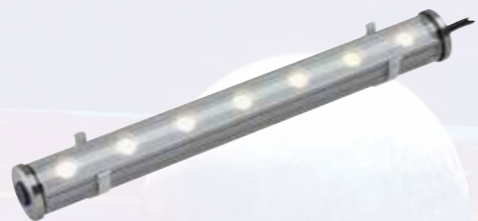
**LED DRIVERS**  
Use with 350mA or 500mA constant current LED drivers. Please see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available

# LD36 IP66

## HIGH POWER LINEAR LENSED LED SYSTEM



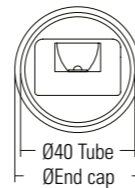
LD36 is now offered in a redesigned IP66 rated housing to reduce the cost per metre. This makes it a far more cost effective solution for lighting walls in showers where IP54 is not a high enough rating, and IP68 is not cost effective. It features all the benefits of LD36 with excellent output and wall wash capabilities. It uses the latest in LED technology and collimating lenses to focus the light to create a continuous wash of light. For an IP68 exterior wall grazer, please see our LD38 on page 178.



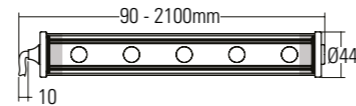
### KEY FEATURES

- > Excellent wall wash capabilities
- > Uses the latest in LED technology
- > High efficiency optics specially designed for LightGraphix guarantee excellent beam spread and shape
- > LED spacing of 50, 75 and 100mm are available, allowing cost savings with fewer LEDs and drivers whilst still achieving the desired effect
- > High power from compact size
- > Custom made lengths as standard

### DIMENSIONS Dimensions in mm



Custom made lengths

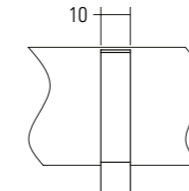
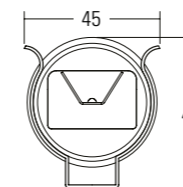


### SPECIFICATION

LED	Cree XPG	
Max drive current	500mA	
Max LED power per metre*	34W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens / (L <sub>100</sub> )		
50mm spacing	1860	2567
75mm spacing	1347	1812
100mm spacing	1037	1395
Lumens per circuit watt	56	75

\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files

### FIXING OPTIONS AND DIMENSIONS Dimensions in mm



### ORDER CODES AND OPTIONS

Product Code	LED Colour	LED Spacing	Beam Angle	Product Colour	Fixing Option	Length
<b>LD36</b>						
<b>-350 IP66</b>						
<b>-500 IP66</b>						
Example: LD36-500 IP66 / LW30 / 50 / OB / White / SC / 1200mm						

### PRODUCT CODES WITH OUTPUT OPTION

1.2W 350mA	<b>LD36-350 IP66</b>
1.7W 500mA	<b>LD36-500 IP66</b>

### LED COLOUR OPTIONS

Extra warm white (2700K)*	SUFFIX /LW27
Warm white (3000K)	/LW30
Cool white (5000K)	/LW50

\*2700K LEDs are available on special order

### LED SPACING

50mm	/50
75mm	/75
100mm	/100

### BEAM / LENS ANGLE OPTIONS

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

### PRODUCT COLOUR

Silver anodised (white lens cover)	
------------------------------------	--

### FIXING OPTIONS

Spring clips	/SC
--------------	-----

### LED DRIVERS

Use with 350mA or 500mA constant current LED drivers. Please see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available



# LD36 RGB

HIGH POWER LINEAR RGB LENSED SURFACE WASHER



350 mA

IP40



LD36 RGB surface washer offers superb continuous wall washing capabilities, from a very compact product. The use of a single colour mix optic and a single RGB LED allows for very effective near field colour mixing. It offers great flexibility to the designer with a range of options that suit most design details and applications.



## KEY FEATURES

- > Single colour mix optic for very effective colour mixing
- > High power for wall washing
- > Uses the latest in LED technology with an RGB LED mixing at source
- > LED spacing is maintained across multiple lengths, so no dark spots!
- > 4 fixing options are offered, which include a mini adjustable bracket, ideal for coffers
- > IP40 as standard with an IP54 option for wet environments
- > Lengths are custom made to suit to a maximum of 975mm
- > Short pieces can be made interlinked to accommodate curves

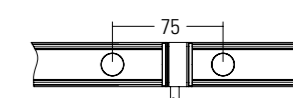
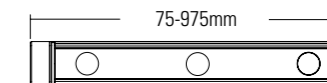
## SPECIFICATION

LED	Cree XML
Max drive current	350mA
Max LED power per metre*	42W
Delivered lumens / (L <sub>100'</sub> )	1426

*\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files*

Custom made lengths

LED spacing maintained over multiple lengths so no gaps in the light output

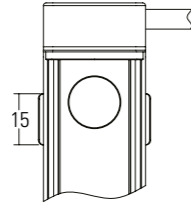
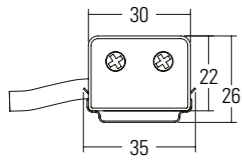


**FIXING OPTIONS AND DIMENSIONS**

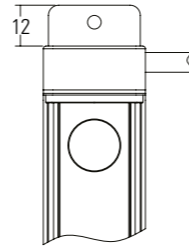
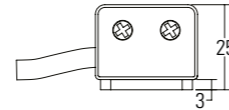
*Dimensions in mm*

Cable entry is from the side as standard. With the adjustable brackets it is rear cable entry.

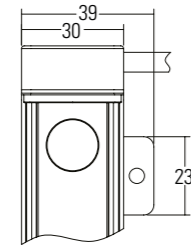
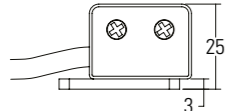
**/SC**  
Spring Clip Fixing



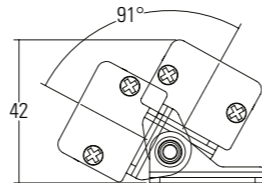
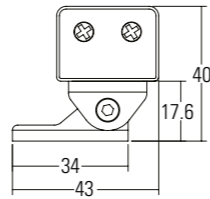
**/BEM**  
Bracket End Mounting (max 1200mm length)



**/BSM**  
Bracket Side Mounting



**/ABM**  
Adjustable Bracket Mounting



**LINKED SECTIONS**

Around curves LD36 can be specified in smaller sections depending on the radius. These are hard wired together so the LED spacing is maintained.



**ACCESSORIES**

**/GL36**  
Anti glare louvre. Please note this is always supplied in black finish.



**ORDER CODES AND OPTIONS**

Product Code	LED spacing	Beam angle	Cover colour	Fixing option	IP rating	Length
<b>LD36RGB</b>						
Example: LD36 RGB / 75 / MB / White / ABM / IP40 / 975mm						

PRODUCT CODES WITH OUTPUT OPTION \_\_\_\_\_  
3.6W LED 350mA **LD36 RGB**

LED SPACING \_\_\_\_\_  
75mm /75

BEAM / LENS ANGLE OPTION \_\_\_\_\_  
60° wide /WB

PRODUCT COLOUR \_\_\_\_\_  
White or RAL - lens cover only (extrusion is silver anodised)  
Black - End caps, lens cover and extrusion all black

FIXING OPTION \_\_\_\_\_  
Spring clips /SC  
Bracket end mounting (max length 1.2m) /BEM  
Bracket side mounting /BSM  
Adjustable bracket mounting /ABM

IP OPTION \_\_\_\_\_  
IP40 (internal use as standard) /IP40  
IP54 rated for moist environments /IP54

ACCESSORY \_\_\_\_\_  
Linear anti glare louvre (Black) /GL36

LED DRIVERS \_\_\_\_\_  
Use with 350mA constant current LED drivers. Please see page 188  
1-10V, DMX, DALI and Mains dimmable drivers are available











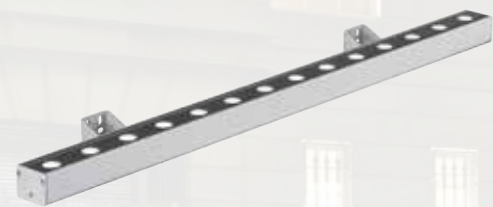
Light+Design Project: The Lansdowne Club Product: LD38

# LD38

EXTERIOR HIGH POWER LINEAR LENSED LED SURFACE GRAZER AND FLOOD LIGHT

LD38 is an exterior rated, high power surface grazer that offers superb continuous wall washing capabilities. The compact minimal design and RAL finish option enables it to blend into most project styles. It offers great flexibility to the designer with a range of options that suit most design details and applications; available in custom lengths up to 2.1m; optics for wall washing or flood lighting; a range of colour temperatures including RGBW; various mounting options, finishes and accessories. These coupled with the latest in LED technology make LD38 the perfect choice for illuminating an entire external project.



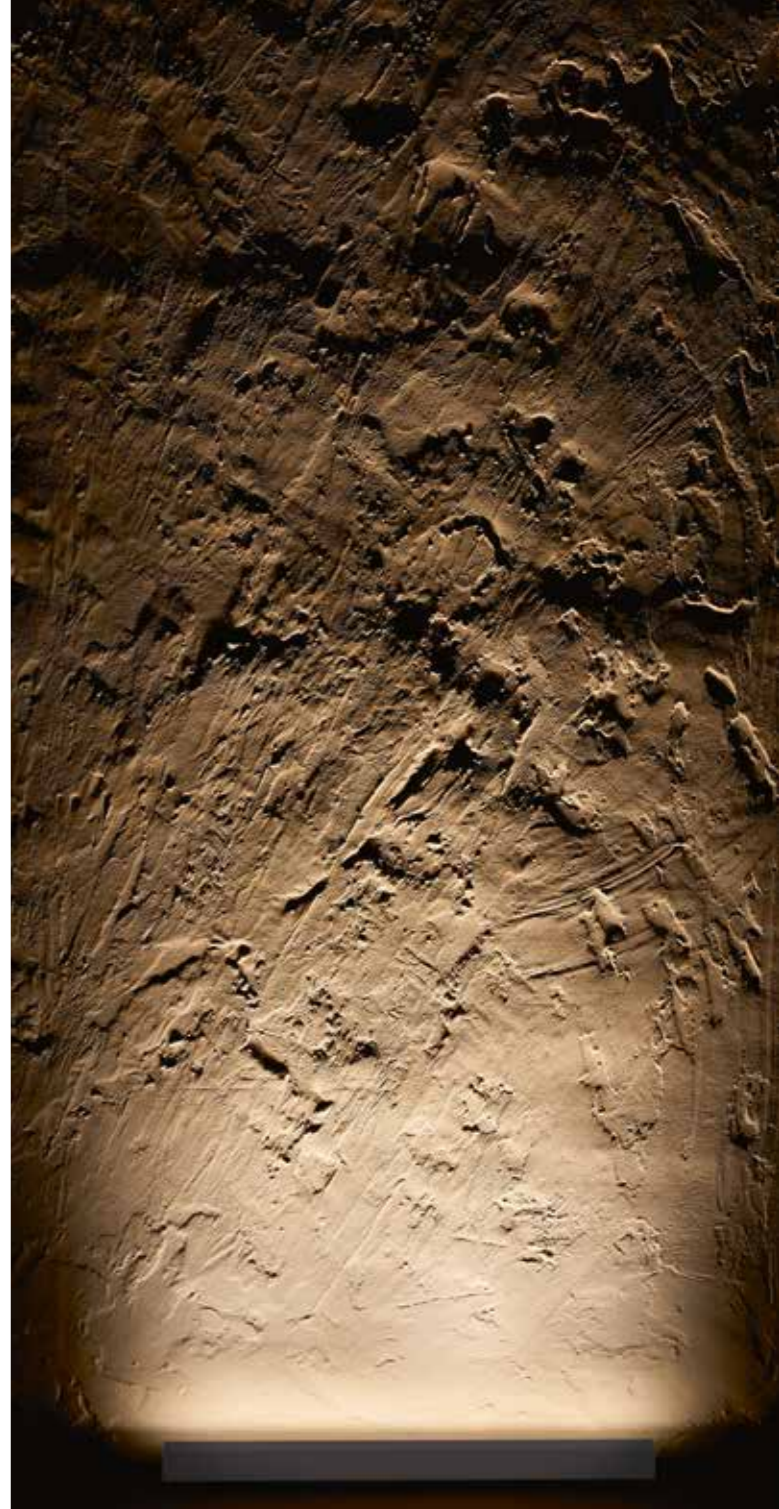
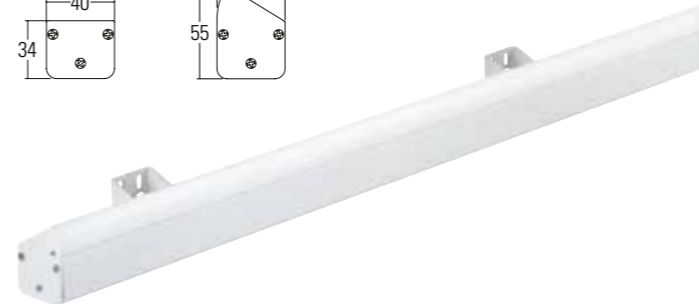
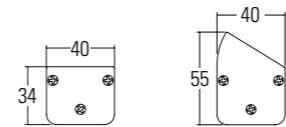
## KEY FEATURES

- > Superb continuous wall washing capabilities
- > Very high power for surface grazing or flood lighting
- > Compact, minimal design
- > High efficiency optics specially designed for LightGraphix
- > LED spacing of 50, 75 and 100mm
- > Spacing is maintained across multiple lengths, so no dark spots!
- > Wide range of fixing options
- > IP68 version available for underwater applications
- > Short pieces can be made interlinked to accommodate curves
- > Available with remote switch, 1-10V, DMX and DALI drivers
- > Lengths are custom made to suit to a maximum of 2.1 metres

## SPECIFICATION

LED	Cree XPG	
Max drive current	700mA	
Max LED power per metre*	48W	
Colour temperature	3000K	5000K
CRI (typical)	93	80
Delivered lumens per metre (L <sub>100°</sub> )		
50mm spacing	2650	4095
75mm spacing	1723	2662
100mm spacing	1325	2048
Lumens per circuit watt	57	89

\*LED wattage includes losses associated with using an 85% efficient driver  
See website for more detailed technical information and photometric files

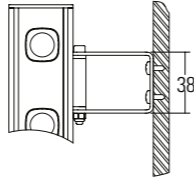
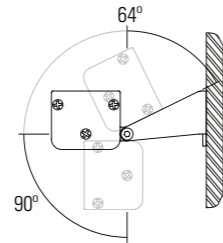
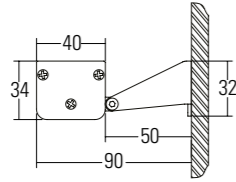




**FIXING OPTIONS AND DIMENSIONS**

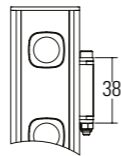
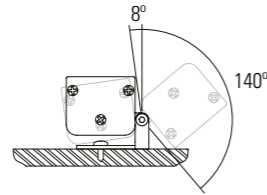
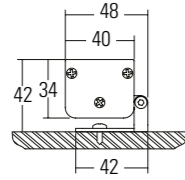
*Dimensions in mm*

/AWB-50  
Adjustable Wall Bracket 50mm

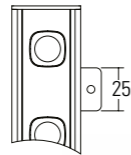
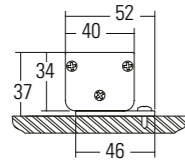


A longer adjustable wall bracket is available - please see our website for details.

/ABM  
Surface Adjustable Bracket Mounting

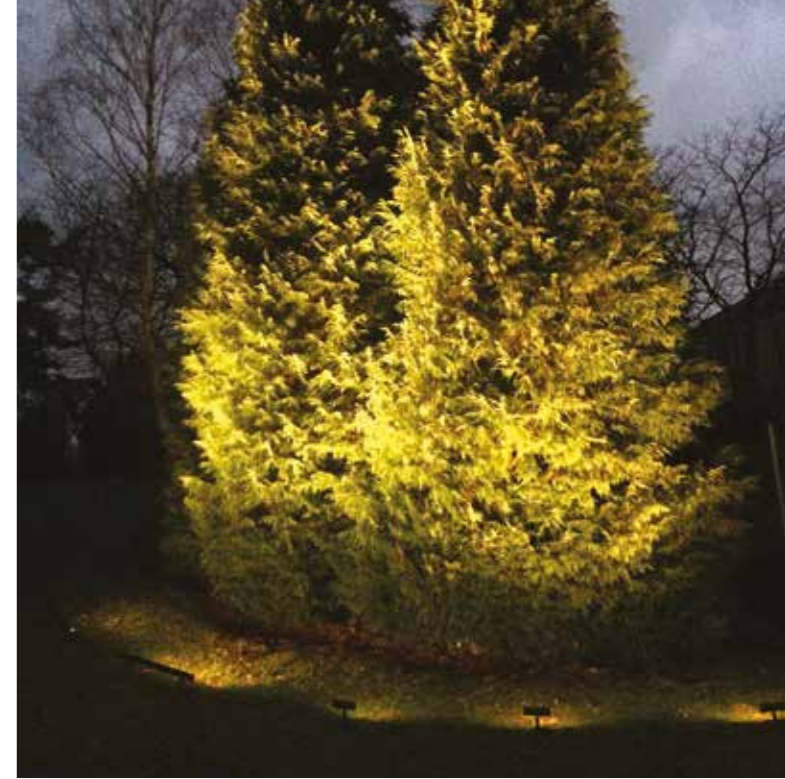
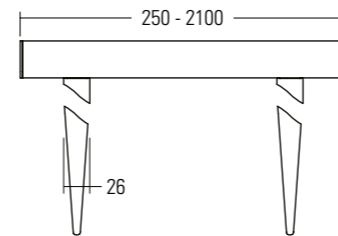
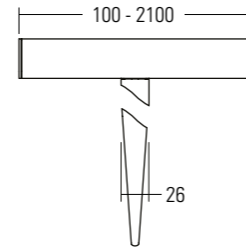
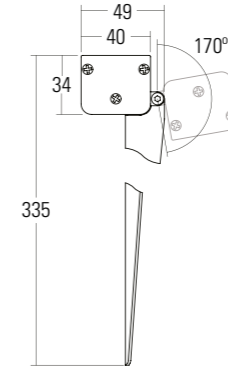


/BSM  
Bracket Side Mounting



/GS

The ground spike accessory enables the use of the LD38 as an innovative alternative to conventional spotlights. It offers linear lighting to a range of landscape and garden lighting effects. Ideal for lighting hedge rows, walls and short pieces to light around trees. It can be specified with wider LED spacing to suit the budget or light output needed.

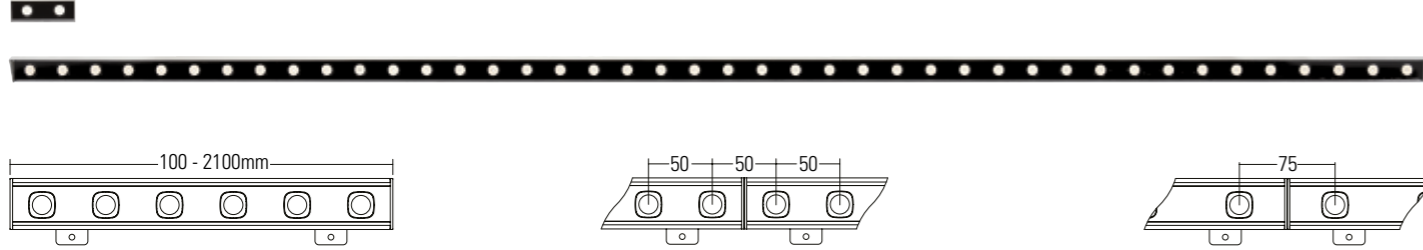




## MADE TO MEASURE

Dimensions in mm

Custom made lengths as standard allow the designer to specify exactly the length they require. Spacing is maintained across multiple lengths, so no dark spots!



## FINISHES AND MATERIALS

LD38 has been designed for extreme environments, so only high quality materials and finishes are used to ensure long lasting reliability. Silver or black anodised is to a minimum thickness of 25 microns which offers high protection in all external environments. RAL external paint finishes are also available and allow the LD38 to blend into the surrounding architecture.

/SILVER ANODISED



/BLACK ANODISED



/PAINT FINISH RAL



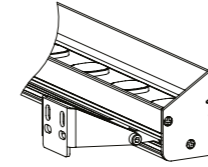
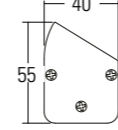
## LINKED

LD38 can be specified in short sections linked together for going around curves and lighting up columns.



## ACCESSORIES

/CO  
Linear Anti-glare Cowl



## UNDERWATER APPLICATIONS

/IP68

LD38 can be supplied in an IP68 version, allowing it to be permanently submerged underwater to a maximum depth of 1.0m. The product is resin filled as standard and is ideal for lighting underwater to illuminate waterfalls and features. The product is coated and treated with a highly resistant paint finish, which is specially designed for extreme environments involving water. This protects LD38 from most forms of chemical attack and ensures long life.

## ORDER CODES AND OPTIONS

Product Code	LED Colour	Lens Spacing	Beam Angle	Fitting Colour	Fixing Option	IP rating	Accessory	Length
<b>LD38</b>								
-500								
-700								
Example: LD38-700 / LWW / 50 / OB / White / AWB-50 / IP67 / CO / 500mm								

## PRODUCT CODES WITH OUTPUT OPTION

1.7W LEDs 500mA	<b>LD38-500</b>
2.4W LEDs 700mA	<b>LD38-700</b>

## LED COLOUR OPTIONS

Extra warm white (2700K)*	/LW27
Warm white (3000K)	/LW30
Cool White (5000K)	/LW50
RGB and RGBW see website	
*2700K LEDs are available on special order	

## LED SPACING

50mm	/50
75mm	/75
100mm	/100

## BEAM / LENS ANGLE OPTION

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

## PRODUCT COLOUR

Silver - End caps, extrusion and fixings.  
Black - End caps, extrusion and fixings.  
White or RAL - End caps, extrusion and fixings.

## FIXING OPTION

Adjustable wall bracket (50mm)	/AWB-50
Adjustable wall bracket (300mm)	/AWB-300
Surface mounted bracket	/SMB
Bracket side mounting	/BSM
Ground spike	/GS

## IP OPTION

IP67 (exterior use as standard)	/IP67
IP68 (special protective paint finish for underwater use)	/IP68

## ACCESSORY

Linear anti glare cowl (finish to match fitting)	/CO
--	-----

## LED DRIVERS

Use with 500mA or 700mA constant current LED drivers. Please see page 188  
Switch, 1-10V, DMX, DALI and Mains dimmable drivers are available

# IP CONNECTION KIT

## RESIN KIT FOR IP68 RATED CONNECTIONS

IP68

IP connections are very important when wiring fittings in wet or damp environments. When fittings are not wired with an IP68 connection, water that pools around exposed cables can corrode wires or be drawn through the cable sheath and into the fitting, which can lead to irreparable damage. The IP connection kit is designed for use in all exterior applications.

We would always recommend in exterior applications that connections are done in a dry location if possible. LightGraphix products can be specified with longer leads if needed. Connections should never be made under water.

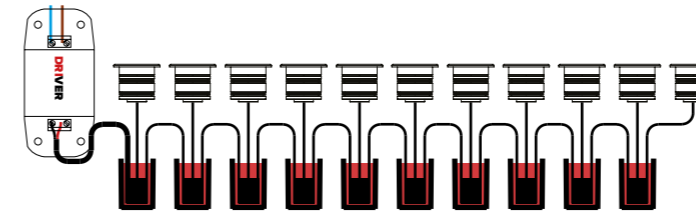


### KEY FEATURES

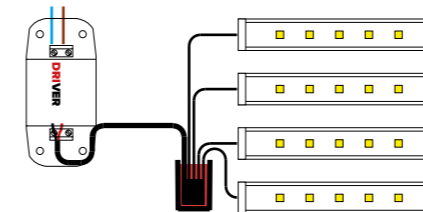
- > Up to 10 connections (11 LED fittings) per IP Kit
- > Designed for single colour constant current LED fittings and 24V linear
- > Quick and simple method of creating IP68 connections on site
- > Resin-filled cartridge for easy handling on site
- > Once fully cured it provides a reliable and robust protection
- > Potted connections ready to install within 2 hours (light handling)
- > Minimal size, can fit in cut-outs as small as 26mm in diameter
- > Works with both in series and parallel wiring

### KEY FEATURES

CONSTANT CURRENT (IN-SERIES WIRING)  
Up to 10 connections for 11 LED fittings per Resin Kit



24V CONSTANT VOLTAGE (PARALLEL WIRING)  
Up to 4 Linear LED fittings per connection



### ORDER CODES AND OPTIONS

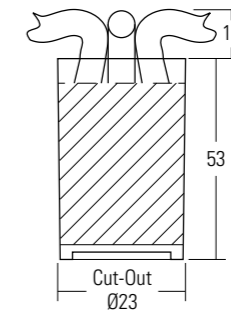
DESCRIPTION \_\_\_\_\_ ORDER CODE  
IP68 resin kit for 10 connections IPKit10  
Example: LD56 - 700 / LWW / MB / SS / 476 / IP KIT 10

### INSTALLATION

Please see attached instruction leaflet for more detailed instructions



### DIMENSIONS





# GROUND FIXING TUBES

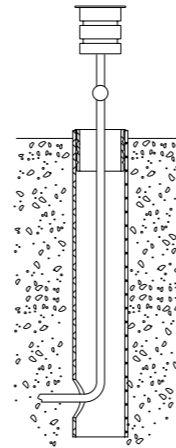
## FIRST FIX IN-GROUND MOUNTING TUBES

The in-ground tubes have been designed for applications where a recessed uplighter is required in soil or gravel surfaces. The tube can be buried with the necessary wiring, and then the fitting installed after the landscaping work has been completed.



### KEY FEATURES

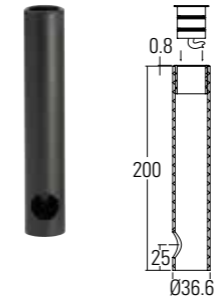
- > Ideal for use in soil or gravel, where a recessed uplight is required
- > Supplied with fixing sleeve bonded into tube
- > Manufactured from PVC or polycarbonate for high chemical and environmental resistance
- > Can be cut down on site (cable will need to come up from underneath)
- > IP rated connection required inside tube or specify longer cables for remote connection



### ORDER CODES AND DIMENSIONS

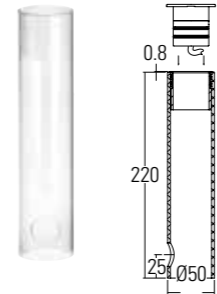
#### /480GT

For use with any fitting that uses the /480 sleeve  
 e.g. LD41, LD43, LD60, LD61, LD62, LD64 & LD65  
 Outer Diameter: 36.6mm, Length: 200mm



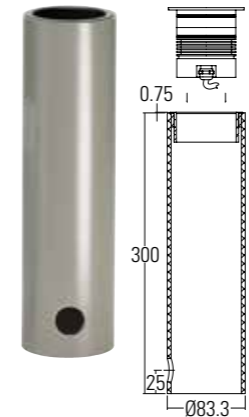
#### /476GT

For use with any fitting that uses the /476 sleeve  
 e.g. LD56, LD56T & LD56 RGB  
 Outer Diameter: 50mm Length: 220mm



#### /484GT

For use with any fitting that uses the /484S sleeve  
 e.g. LD151  
 Outer Diameter: 83.3mm Length: 300mm



### HOW TO SPECIFY

To specify the in-ground tubes, add the relevant code to the end of your specification. The fixing sleeve is supplied bonded into the tube.

#### EXAMPLE:

LD41-350 / LWW / NB / Stainless steel / 480GT  
 LD56-700 / LWW / MB / Stainless steel / 476GT  
 LD151-500 / LWW / 10 / Stainless steel / 484GT

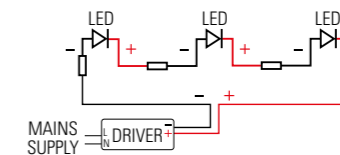
# 350mA LED Drivers

CONSTANT CURRENT DRIVERS

LEDs use specific drivers to run them, they are different from normal low voltage fittings in that they must be wired in series and need a constant current. Drivers can be placed 10m from the LEDs. Longer distances of 10-40m can be achieved by using a larger diameter cable to reduce the volt drop, or taking one LED off the maximum the driver can run. Please contact us for more information.

## WIRING IN SERIES

LEDs need to be connected with an 'in series' wiring method.



Example fittings that use these drivers include: LD41-350, LD42-350, LD53-350, LD150-350, LD10236-350, LD26-350, LD36-350

350mA Constant Current Drivers										
	TXDS2	TXDL06CC350	TXDP12	TXDD350	TXDEL350D	TXDEL350DALI	TXDL36RGB	TXDEL4S350D	TXDEL4S350DALI	TXDEL4A350DMX TXDEL4A350DALI
<b>1.2W FITTINGS</b> 	1 - 3	1 - 4	1 - 12	3 - 14	1 - 14	1 - 14	42 (3 x 5 - 14) 5 - 13 RGB tri chips	56 (4 x 1 - 14)	56 (4 x 1 - 14)	56 (4 x 1 - 14) 2 - 13 RGB tri chips
<b>3.6W (3x1.2W) FITTINGS</b> 	1	1	1 - 4	1 - 4	1 - 4	1 - 4	12 (3 x 2 - 4)	16 (4 x 1 - 4)	16 (4 x 1 - 4)	16 (4 x 1 - 4)
<b>5W FITTINGS</b> 	-	1	1 - 3	1 - 4	1 - 4	1 - 4	9 (3 x 1 - 3)	12 (4 x 1 - 3)	12 (4 x 1 - 3)	12 (4 x 1 - 3) 2 - 13 RGBW
<b>7W FITTINGS</b> 	-	-	1 - 2	1 - 2	1 - 2	1 - 2	6 (3 x 1 - 2)	8 (4 x 1 - 2)	8 (4 x 1 - 2)	8 (4 x 1 - 2)
Number of outputs/circuits	1	1	1	1	1	1	3 individually addressable	4	4	4 individually addressable
Dimmable	no	no	no	no	0 - 10V (1 - 100%)*	DALI (0 - 100%)*	DMX (0 - 100%)*	0 - 10V (0 - 100%)*	DALI (0 - 100%)*	DMX, DALI (0 - 100%)*
Output Current (mA)	350mA	350mA	350mA	350mA	350mA	350mA	350mA	350mA	350mA	350mA
Output Voltage (V)	3 - 12V	2 - 20V	43V	9 - 48V	2 - 55V	2 - 55V	14 - 48V per channel	2 - 57V per channel	2 - 57V per channel	2 - 57V per channel
Output Wattage (W)	6W	6W	15W	33W	30W	30W	50W	100W	100W	100W
Dimensions L x W x H (mm)	42 x 40 x 21	45 x 60 x 25	115 x 34 x 19	186 x 33 x 32	210 x 41 x 34	210 x 41 x 34	240(285) x 95 x 60	388 x 42 x 30	388 x 42 x 30	388 x 42 x 30
Hole Cut-out (mm)	44Ø	51Ø	40Ø	45Ø	51Ø	51Ø	51Ø	N/A	N/A	N/A
UL approved	No	No	No	No	Yes	Yes	No	Yes	Yes	Yes
IP Rating	N/A	IP67 as standard	250 x 500 IP67 Tube	Supplied in IP rated box	Supplied in IP rated Box	Supplied in IP rated Box	Supplied in IP rated Box	N/A	N/A	N/A

## RGB LED NOTE:

Green and blue LEDs have a maximum forward voltage of 3.8V (white is max 3.2V at 350mA).

So take 1 LED off the total the driver can run. TXDL36RGB and TXDEL4A350 drivers list the amount of RGB and RGBW LEDs they can run.

NB: (number of circuits) x (number of LEDs)

\* Dimming range can vary depending on the manufacturer and type of control system used

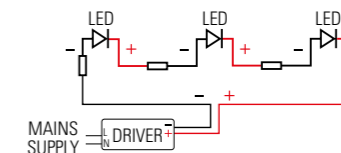


# 500mA LED Drivers

LEDs use specific drivers to run them, they are different from normal low voltage fittings in that they must be wired in series and need a constant current. Drivers can be placed 10m from the LEDs. Longer distances of 10-40m can be achieved by using a larger diameter cable to reduce the volt drop, or taking one LED off the maximum the driver can run. Please contact us for more information.

### WIRING IN SERIES

LEDs need to be connected with an 'in series' wiring method.



Example fittings that use these drivers include: LD42-500, LD1030-500, LD36-500, LD26-500

500mA Constant Current Drivers								
	TXDL06CC550	TXDL12CC500	TXDD500	TXDEL500D	TXDEL500DALI	TXDEL4S500D	TXDEL4S500DALI	TXDEL4A500DMX TXDEL4A500DALI
<b>1.7W FITTINGS</b> 	1 - 3	1 - 8	3 - 14	1 - 14	1 - 14	56 (4 x 1 - 14)	56 (4 x 1 - 14)	56 (4 x 1 - 14)
<b>5.1W (3x1.7W) FITTINGS</b> 	1	1 - 2	1 - 4	1 - 4	1 - 4	16 (4 x 1 - 4)	16 (4 x 1 - 4)	16 (4 x 1 - 4)
<b>7W FITTINGS</b> 	1	1	1 - 4	1 - 4	1 - 4	12 (4 x 1 - 3)	12 (4 x 1 - 3)	12 (4 x 1 - 3) 2 - 13 RGBW
<b>10W FITTINGS</b> 	-	1	1 - 2	1 - 2	1 - 2	8 (4 x 1 - 2)	8 (4 x 1 - 2)	8 (4 x 1 - 2)
Number of outputs/circuits	1	1	1	1	1	4	4	4 individually addressable
Dimmable	no	no	no	0 - 10V (1 - 100%)*	DALI (0 - 100%)*	0 - 10V (0 - 100%)*	DALI (0 - 100%)*	DMX, DALI (0 - 100%)*
Output Current (mA)	500mA	500mA	500mA	500mA	500mA	500mA	500mA	500mA
Output Voltage (V)	2 - 14V	2 - 26V	9 - 48V	2 - 55V	2 - 55V	2 - 50V per channel	2 - 50V per channel	2 - 50V per channel
Output Wattage (W)	6W	12W	33W	30W	30W	100W	100W	100W
Dimensions L x W x H (mm)	45 x 60 x 25	100 x 40 x 28	186 x 33 x 32	210 x 41 x 34	210 x 41 x 34	388 x 42 x 30	388 x 42 x 30	388 x 42 x 30
Hole Cut-out (mm)	51Ø	48Ø	45Ø	51Ø	51Ø	N/A	N/A	N/A
UL approved	No	No	No	Yes	Yes	Yes	Yes	Yes
IP Rating	IP67 as standard	Supplied in IP rated box	Supplied in IP rated box	Supplied in IP rated Box	Supplied in IP rated Box	N/A	N/A	N/A

NB: (number of circuits) x (number of LEDs)

\* Dimming range can vary depending on the manufacturer and type of control system used

# 700mA LED Drivers

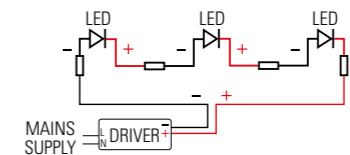
CONSTANT CURRENT DRIVERS

LEDs use specific drivers to run them, they are different from normal low voltage fittings in that they must be wired in series and need a constant current. Drivers can be placed 10m from the LEDs. Longer distances of 10-40m can be achieved by using a larger diameter cable to reduce the volt drop, or taking one LED off the maximum the driver can run. Please contact us for more information.

Example fittings that use these drivers include: LD56-700, LD1250-700, LD51-700

## WIRING IN SERIES

LEDs need to be connected with an 'in series' wiring method.



700mA Constant Current Drivers								
	TXDS2/700	TXDP17	TXDD700	TXDEL700D	TXDEL700DALI	TXDEL4S700D	TXDEL4S700DALI	TXDEL4A700DMX TXDEL4A700DALI
<b>2.4W FITTINGS</b> 	1 - 2	1 - 6	3 - 14	1 - 13	56 (4 x 1 - 14)	40 (4 x 1 - 10)	40 (4 x 1 - 10)	40 (4 x 1 - 10)
<b>10W FITTINGS</b> 	-	1	1 - 3	1 - 3	12 (4 x 1 - 3)	8 (4 x 1 - 2)	8 (4 x 1 - 2)	8 (4 x 1 - 2)
<b>14W FITTINGS</b> 	-	1	1 - 2	1 - 2	8 (4 x 1 - 2)	4 (4 x 1)	4 (4 x 1)	4 (4 x 1)
Number of outputs/circuits	1	1	1	1	4	4	4	4 individually addressable
Dimmable	no	no	no	0 - 10V (1 - 100%)*	DALI (0 - 100%)*	1 - 10V (0 - 100%)*	DALI (0 - 100%)*	DMX, DALI (0 - 100%)*
Output Current (mA)	700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA
Output Voltage (V)	3 - 8.5V	3 - 24V	9 - 48V	2 - 42V	2 - 42V per channel	2 - 35.7V per channel	2 - 35.7V per channel	2 - 35.7V per channel
Output Wattage (W)	6W	17W	33W	30W	30W	100W	100W	100W
Dimensions L x W x H (mm)	42 x 40 x 21	125 x 38 x 22	186 x 33 x 32	210 x 41 x 34	210 x 41 x 34	388 x 42 x 30	388 x 42 x 30	388 x 42 x 30
Hole Cut-out (mm)	44Ø	43Ø	45Ø	51Ø	N/A	N/A	N/A	N/A
UL approved	No	No	No	Yes	Yes	Yes	Yes	Yes
IP Rating	N/A	250 x 50Ø IP67 Tube	Supplied in IP rated box	Supplied in IP rated Box	N/A	N/A	N/A	N/A







NB: (number of circuits) x (number of LEDs)







\* Dimming range can vary depending on the manufacturer and type of control system used








# 350 - 700mA Phase Mains Dimmable LED Drivers

Phase/mains dimmable drivers must always be specified with care as there are many factors that can effect how well they dim. If possible on a project it is best to use mains dimmable drivers from the same manufacturer, especially if they are on the same room or circuit. Drivers can be placed 10m from the LEDs. Longer distances of 10-40m can be achieved by using a larger diameter cable to reduce the volt drop, or taking one LED off the maximum the driver can run. Please contact us for more information.

350mA Constant Current Drivers		
	TXDLDIMTE	TXDM350PHD
	Lumotech	Mode
<b>1.2W FITTINGS</b> 	1 - 9	4 - 14
<b>3.6W (3x1.2W) FITTINGS</b> 	1 - 3	2 - 4
<b>5W FITTINGS</b> 	1 - 2	1 - 3
<b>7W FITTINGS</b> 	1	1 - 2
Number of outputs/circuits	1	1
Dimmable	240V trailing edge (min 20%)*	240V trailing/leading edge
Output Current (mA)	350mA	350mA
Output Voltage (V)	32V	12 - 48V
Dimensions L x W x H (mm)	99 x 39 x 23	150 x 49 x 35
Hole Cut-out (mm)	42Ø	50Ø
IP Rated	Supplied in IP rated box	Supplied in IP rated box

500mA Constant Current Drivers		
	TXDL26CC500	TXDM500PHD
	GE/Lightec	Mode
<b>1.7W FITTINGS</b> 	2 - 14	4 - 11
<b>5.1 (3x1.7W) FITTINGS</b> 	1 - 4	2 - 3
<b>7W FITTINGS</b> 	1 - 3	1 - 2
<b>10W FITTINGS</b> 	1 - 2	1
Number of outputs/circuits	1	1
Dimmable	240V trailing edge (min 25%)*	240V trailing/leading edge
Output Current (mA)	500mA	500mA
Output Voltage (V)	4 - 52V	12 - 36V
Dimensions L x W x H (mm)	153 x 40 x 31	150 x 49 x 35
Hole Cut-out (mm)	50Ø	50Ø
IP Rated	Supplied in IP rated box	Supplied in IP rated box

700mA Constant Current Drivers		
	TXDLDIMTE/700	TXDM700PHD2
	Lumotech	Mode
<b>2.4W FITTINGS</b> 	1 - 4	4 - 14
<b>10W FITTINGS</b> 	1	1 - 3
<b>14W FITTINGS</b> 	1	1 - 2
Number of outputs/circuits	1	1
Dimmable	240V trailing edge (min 20%)*	240V trailing/leading edge
Output Current (mA)	700mA	700mA
Output Voltage (V)	18V	12 - 48V
Dimensions L x W x H (mm)	99 x 39 x 23	224 x 58 x 42
Hole Cut-out (mm)	42Ø	70Ø
IP Rated	Supplied in IP rated box	Supplied in IP rated box

The TXDM350PHD, TXDM500PHD and TXDM700PHD2 have been tested with a Lutron Graphic Eye system and this combination works well, smooth dimming down to around 5%. These also work well with Mode dimming systems as these drivers are made by them.

\* Dimming range can vary depending on the manufacturer of the dimmer/control system used



Project: Harrow Chapel Product: LD36 Design: DPA Lighting

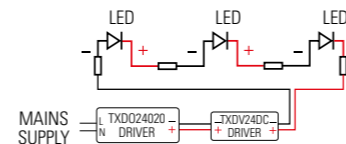
# 350 - 700mA LED Drivers







## 24V Input







These drivers require a 24V input and provide an output of either 350mA, 500mA or 700mA constant current supply. This makes them particularly useful for boat applications where there is only a 24V supply. The drivers can dimmed using a pulse width modulation signal (PWM) from a TXDO DIM controller (see 24V LED driver section).





### WIRING IN SERIES

LEDs need to be connected with an 'in series' wiring method required.

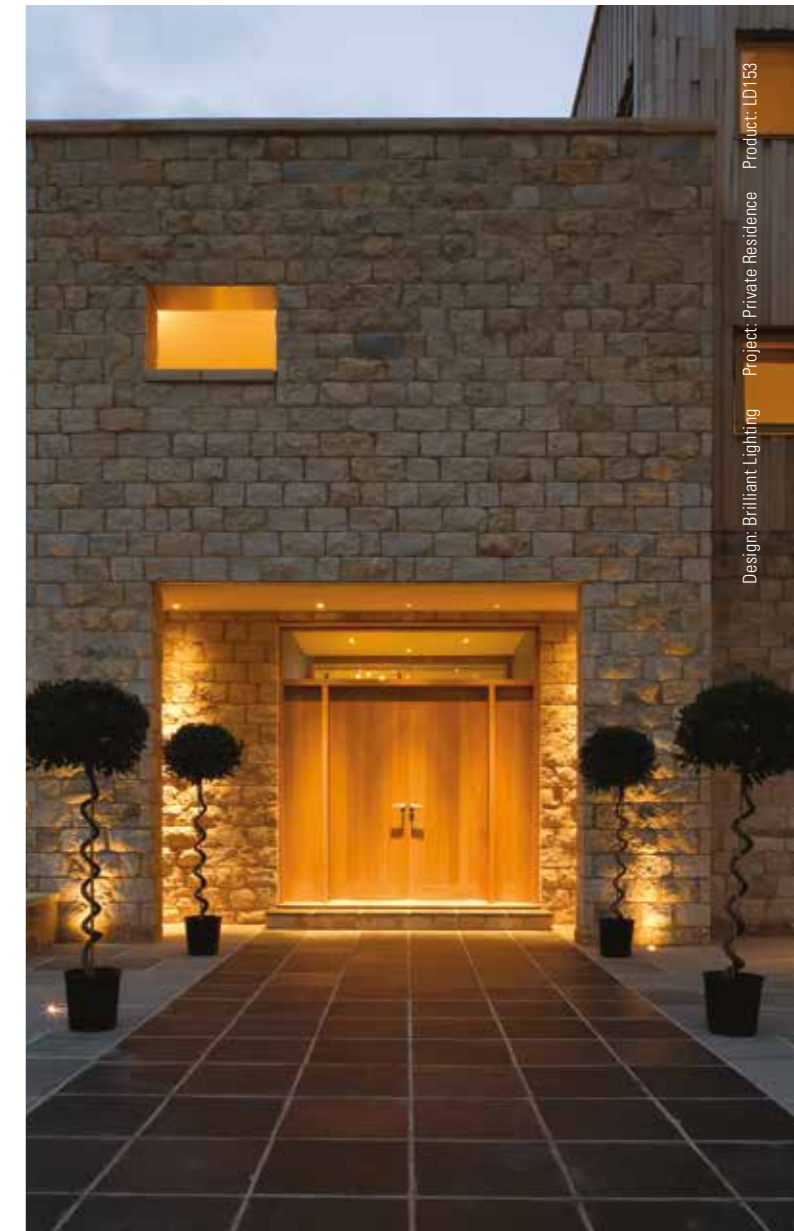


350mA 24V Input		
	TXDT24V350	TXDT24V350IP68
1.2W FITTINGS 	1 - 6	1 - 6
3.6W (3x1.2W) FITTINGS 	1 - 2	1 - 2
5W FITTINGS 	1	1
7W FITTINGS 	1	1
Number of outputs/circuits	1	1
Dimmable	PWM (TXDO-DIM, 1-10V, DALI, DMX)	PWM (TXDO-DIM, 1-10V, DALI, DMX)
Output Current (mA)	350mA	350mA
Output Voltage (V)	20V	20V
Dimensions L x W x H (mm)	58 x 31 x 21	57 x 34 x 22
Hole Cut-out (mm)	38Ø	35Ø
IP Rating	-	IP68

500mA 24V Input		
	TXDT24V500	TXDT24V500IP68
1.7W FITTINGS 	1 - 6	1 - 6
5.1W (3x1.7W) FITTINGS 	1 - 2	1 - 2
7W FITTINGS 	1	1
10W FITTINGS 	1	1
Number of outputs/circuits	1	1
Dimmable	PWM (TXDO-DIM, 1-10V, DALI, DMX)	PWM (TXDO-DIM, 1-10V, DALI, DMX)
Output Current (mA)	500mA	500mA
Output Voltage (V)	20V	20V
Dimensions L x W x H (mm)	58 x 31 x 21	57 x 34 x 22
Hole Cut-out (mm)	38Ø	35Ø
IP Rating	-	IP68

700mA 24V Input		
	TXDT24V700	TXDT24V700IP68
2.4W FITTINGS 	1 - 6	1 - 6
10W FITTINGS 	1	1
14W FITTINGS 	1	1
Number of outputs/circuits	1	1
Dimmable	PWM (TXDO-DIM, 1-10V, DALI, DMX)	PWM (TXDO-DIM, 1-10V, DALI, DMX)
Output Current (mA)	700mA	700mA
Output Voltage (V)	20V	20V
Dimensions L x W x H (mm)	58 x 31 x 21	57 x 34 x 22
Hole Cut-out (mm)	38Ø	35Ø
IP Rating	-	IP68

\* For an even smaller non IP rated option the driver can be supplied without its potted housing












Design: Brilliant Lighting Project: Private Residence Product: LD153



# 24V LED Drivers

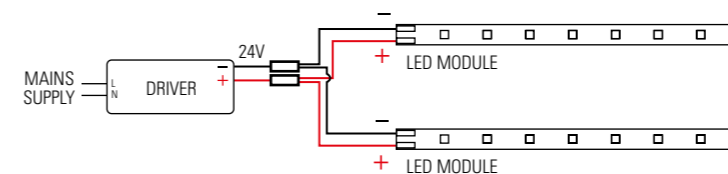
LEDs using these specific drivers require a 24V DC constant voltage input with a parallel wiring method. Max 10m.  
Example fittings that use these drivers include: LD Picture Light, LD Flexi, LD11, LD22, LD Line 15.

24V Constant Voltage Drivers					
	TXDA24008	TXDL24020DIM	TXDO24020	TXDO24075	TXDL24150
Output Power (W)	8W	20W	20W	75W	150W
Dimmable	use with TXDO-DIM	1 - 10V	use with TXDO-DIM	use with TXDO-DIM	use with TXDO-DIM
Output Voltage (V)	24V DC	24V DC	24V DC	24V DC	24V DC
Dimensions L x W x H (mm)	69 x 35 x 21	110 x 52 x 24	109 x 50 x 35	220 x 46.2 x 43.6	230 x 65 x 42
UL approved	No	No	No	No	No
IP Rating	N/A	N/A	IP67 Tube 250 x 50Ø	IP67 Tube 360 x 75Ø	Supplied in IP rated Box

24V Input Controllers				
	TXDO-DIM	TXDO-DIM DALI	TXDO-DIM RGB	TXDO-DIM RGB DMX
Output Power (W)	0 - 120W	0 - 120W	3 x 48W	3 x 48W
Dimmable	1 - 10V (0 - 100%)	DALI (0 - 100%)	1 - 10V (0 - 100%)	DMX(0 - 100%)
Output Voltage (V)	24V DC	24V DC	24V DC	24V DC
Dimensions L x W x H (mm)	172 x 42 x 20	172 x 42 x 20	172 x 42 x 20	172 x 42 x 20
UL approved	No	No	No	No
IP Rating	Supplied in IP rated Box	Supplied in IP rated Box	Supplied in IP rated Box	Supplied in IP rated Box

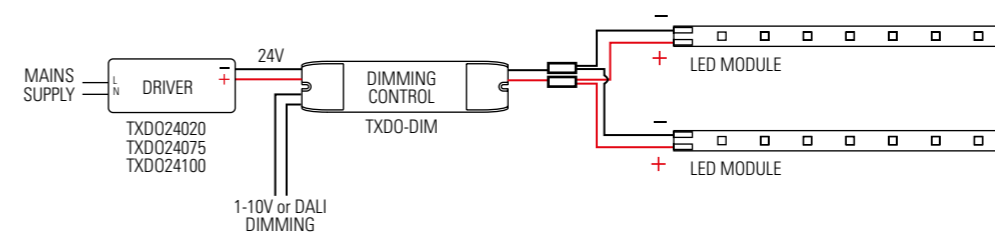
## NON DIMMING WIRING DIAGRAMS

LED modules are wired to the driver using a parallel wiring method.

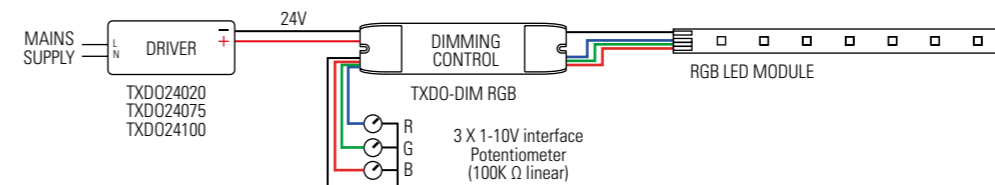


## DIMMING WIRING DIAGRAMS

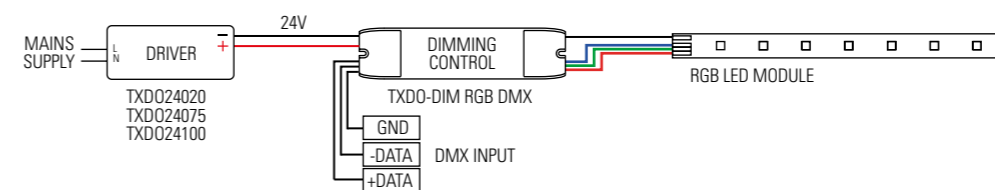
1-10V or DALI dimming for single colour modules with a TXDO-DIM or TXDO-DIM DALI controller.



1-10V dimming for RGB modules with a TXDO-DIM RGB controller.



DMX dimming for RGB or single colour LED modules with a TXDO-DIM RGB DMX controller.



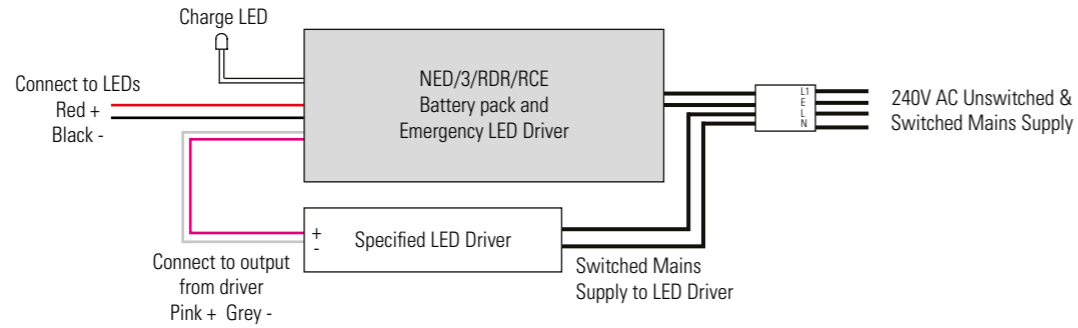
# LED Emergency Packs

3Hr emergency lighting conversion kits designed to suit a wide variety of LED types and circuits. They are designed to be installed by breaking into the low voltage connection between the mains LED driver and the LEDs and allows the LEDs to be operated as normal under mains healthy conditions and operated at reduced light output in an emergency. The emergency driver is designed to automatically adjust the LED output current to provide the best match between the battery and the load, providing maximum illumination whilst ensuring full battery duration.

Two versions are available, both need a specified LED driver to run the LEDs when not in emergency mode.

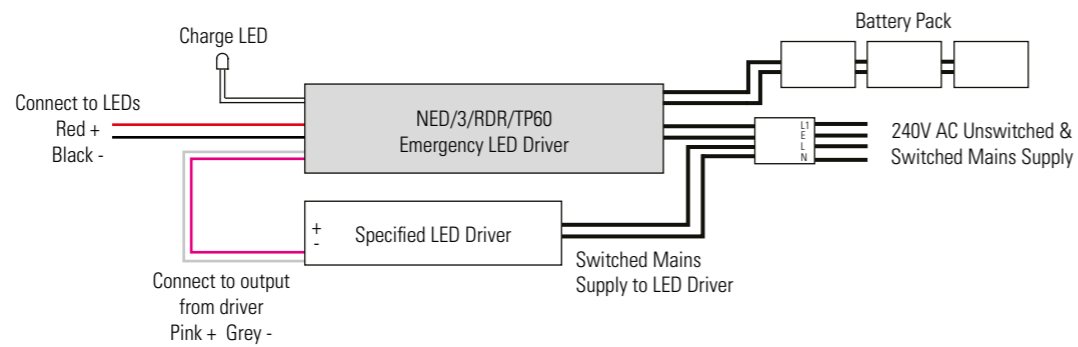
## RCE

Emergency LED driver and batteries supplied in a single enclosure. Specified driver supplied and wired separately.



## TP60

Emergency LED driver and batteries supplied in two parts to suit 60mm diameter hole. Specified driver supplied and wired separately.



## BALLAST LUMEN FACTOR

The Ballast Lumen Factor is the output of the LED in emergency mode, and is described as a percentage of the output in normal operation

Output Current (mA)	Number of fittings														
	Example product	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Single LED fittings	LD41, LD72	-	310mA	250mA	200mA	170mA	145mA	125mA	110mA	100mA	90mA	80mA	75mA	70mA	65mA
3 die LED fittings	LD52, LD75	250mA	145mA	100mA	75mA										
4 die LED fittings	LD151, LD153	200mA	110mA	75mA											
6 die LED fittings	LD1250, LD1210	145mA	75mA												

BLF can be worked out by dividing the current in emergency (see above) by the normal running current. E.g. for 3 LEDs normally run at 700mA the BLF will be 250mA ÷ 700mA = 36%.

Luminaire Power	5W	7W	10W	14W
BLF	60%	43%	30%	21%

## SPECIFICATION

Supply Voltage	220 - 240 Volts AC 50/60 Hz
Power Rating	4.7 Watts
Power Factor	0.9
Duration	3 hours
Ambient Temp	0°C to 50°C
Max case temperature	70°C
Max battery temperature	55°C
Terminal blocks	0.5 - 1.5mm <sup>2</sup> screw terminal
Battery fuse	Internal
Supply fuse - TP60	20 x 5mm <sup>2</sup> Quick Blow
Supply fuse - RCE	Not fitted
Battery pack	3 x 4.5h D Cell Ni-Cd
Charge current	200mA
Recharged period	24 hours

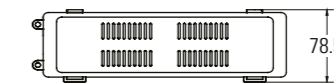
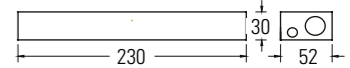
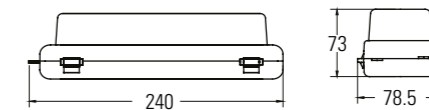
## DIMENSIONS

### RCE

Dimensions - Module	240 x 79 x 73mm
Total weight	1.0kg

### TP60 (to suit 60mmØ hole)

Dimensions - Module	230 x 52 x 30mm
Flexi battery pack	Ø40 x 30mm
Total weight	1.0kg







EMERGENCY PACK OPTION \_\_\_\_\_ CODE  
 RCE NED/3/RDR/RCE  
 TP60 NED/3/RDR/TP60



# IP Enclosures for LED drivers










IP enclosures offer a dry place for drivers to be used externally and in damp locations. Wiring between fittings can be done inside the enclosure eliminating the risk of non IP rated connections. 4 sizes allow up to 4 drivers to be installed in 1 enclosure. Cable glands are supplied separately and are not fitted to the box. We recommend these are not buried.







IP Enclosures				
	TXIPB002	TXIOB004	TXIPB006	TXIPB008
Size	Small	Medium	Large	Extra Large
Dimensions L x W x H (mm)	202 x 122 x 75	202 x 152 x 75	252 x 162 x 90	302 x 232 x 90
Material	ABS	ABS	ABS	ABS
Max ambient	40°C	40°C	40°C	40°C
IP Rating	IP67	IP67	IP67	IP67









Design: Light IO | Project: Private residence | Product: LD151

MATERIAL	FINISH	IMAGE	EXTERIOR USE	DESCRIPTION
STAINLESS STEEL 316	Stainless		Yes	The standard material for our bezels is marine grade 316 stainless steel. It is a tough material suitable for all environments. Standard finish is as machined – a fine grained reflective finish. We recommend polishing for pools and sea environments. This brings the chromium to the surface and gives excellent protection from oxidation (also see passivated note).
	Polished		Yes	
	Brushed		Yes	Creating a grained effect which matches the finish used frequently on kitchen appliances and cooker hoods, etc. Concentric on round fittings and linear on square ones. Needs to be passivated if used externally.
	Satin		Yes	Bead blasting the stainless steel creates a matt surface of similar colour to silver anodising. Needs to be passivated if used externally.
	BMA		No	When the bezel is unavailable in bronze, an antique finish can be achieved using a stainless steel bezel. The bezel is copper plated then BMA (see bronze BMA note) and burnished to reveal copper highlights - usually a darker finish. Not for external walkover, internal footlights with low traffic only. Use flamed bronze instead for a more robust finish. There may be some colour variance between bezels.
	Passivated		Yes	Passivation removes ferrous material from detail like threads and prevents brown stains caused by oxidation. Added protection for use on yachts, swimming pools and projects by the sea. Necessary if satin or brushed finishes are used externally. Passivated and polished for yacht and marine use. Protects anaerobic areas behind the bezel. Yacht grade polishing gives a mirror finish.
BRASS	Machined		No	We use brass bezels for some parts and these are usually chrome plated. If brass is polished, parts need to be lacquered to stop tarnishing. Machine finish can be used in footlights, it will go green over time. Polished is not suitable for footlight applications. If fittings like LD71/LD72 are required in a chrome finish then they need to be made from brass. Minimum order required.
	Polished		No	
	Bright Nickel		No	Nickel plating on brass materials only. Slightly “warmer” effect than Chrome. Can be Bright or Satin. Not walkover.

MATERIAL	FINISH	IMAGE	EXTERIOR USE	DESCRIPTION
BRONZE (ANTIQUÉ FINISH)	Flamed		Yes	To achieve an antique look, a number of our footlight and wall light fittings have bronze bezels as an option. The bronze will not corrode, but will age nicely over time, colour will depend on location and what elements they will be subjected too.  Bronze bezels are either flamed in manufacture, to give an aged patinated finish which is suitable for exterior footlights, or BMA, which is a more distressed, aged look. The BMA process involves the application of a darkened chemical compound to a bronze or copper surface, it is then burnished to reveal bronze highlights to achieve the aged look. Low traffic, in ground internal use only. There may be some colour variance between bezels with both finishes. Bronze is a standard option for the LD42, LD43, LD56, LD150, LD151 and LD170. Other products require minimum order quantities or use stainless steel BMA.
	BMA (Bronze Metal Antique)		No	
ALUMINIUM	Black Anodised		Yes	All exterior aluminium bodies are hard black anodised to a thickness of 50 microns, giving extra protection for in ground and exterior applications.  Silver anodised products are now limited to linear extrusions only, for example our LD30 Hanging Rail and LD22.  Spotlights that were supplied in silver or black anodised are now offered in a paint finish which matches the anodised effect. Please see the paint finish section for more information.
	Silver Anodised		Yes	



PAINT FINISHES	FINISH	IMAGE	EXTERIOR USE	DESCRIPTION
WET SPRAY	Matt Black RAL 9005		Yes	<p>LightGraphix has taken delivery of a new wet spray facility. This is still stove baked, so has replaced powder coating as it offers an increased range of finishes. As well as standard RAL colours, four custom anodised finishes have been made up especially for LightGraphix. This allows us to match the finish of all the component parts of products such as our LED picture light, which is manufactured from many different materials.</p> <p>Most of our products can be painted however we do not recommend this for footlights where there is going to be high traffic. It can be done if they are placed to one side where they will not be walked on so much. In sea environments please talk to us as we can obtain special paint suitable for this environment.</p> <p>Our standard paint finishes are very matt. If we don't have the RAL you're after in stock, we can buy this in for an additional fee. Currently the maximum length that can be painted in house is 2.1m.</p>
	Matt White RAL 9016		Yes	
	Silver Anodised		Yes	
	Antique Bronze		Yes	
	Satin Antique Brass		Yes	
	Satin Brass		Yes	

Note on dissimilar metals:- When aluminium is in contact with both an electrolyte (like seawater) and dissimilar metals like stainless steel, galvanic corrosion can occur. The effect is worse with copper, brass and bronze. As most of our bodies are manufactured from aluminium, care needs to be taken when installing our products in wet environments. Always specify a fixing sleeve if being used externally as this adds protection. A fitting with brass or bronze screws threaded into aluminium should not be used outdoors.



Design: Nulty Lighting Design Project: Yavabha Product: LD72-1050T

# NOTES

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# NOTES

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**LightGraphix are constantly seeking to improve their products and whilst the illustrations and descriptions in this catalogue are as accurate as possible, they shall not form part of any contract. We reserve the right to change specifications without notice.**

# KEY





## LED CONFIGURATION AND RGB OPTIONS

-  Single LED
-  3 Cluster LEDs
-  Quad LEDs
-  6 Cluster LEDs
-  Multiple linear LEDs
-  RGB
-  RGBW

## IP RATING















-  IP68 Totally protected against dust, protected against long periods of immersion under pressure
-  IP67 Totally protected against dust, protected against the effects of temporary immersion between 15cm and 1m
-  IP66 Totally protected against dust, protected against strong jets of water e.g. for use on ship decks
-  IP54 Protected against dust, protected against water sprayed from all directions
-  IP44 Protected against solid objects over 1mm, protected against low pressure jets of water
-  IP40 Protected against solid objects over 1mm, No water ingress protection

## LED INPUT TYPE

-  24V Constant Voltage
-  350mA Constant Current
-  500mA Constant Current
-  700mA Constant Current

## APPLICATION SYMBOLS

The symbols below show the suggested applications the products can be used in.

-  Indicator
-  Display and shelf
-  Low depth
-  Downlight
-  Low glare
-  Floor Wash
-  Cove Lighting
-  Picture lighting
-  Recessed Uplight
-  Wall Washer
-  Steps
-  Yacht lighting
-  Pathway
-  Surface Mounted



**UPLIGHTS AND WALL LIGHTS**



**RECESSED FOOTLIGHTS**



**WALL AND FLOOR MARKERS**



**RECESSED WALL MOUNTED**



**SURFACE MOUNTED**



**DOWNLIGHTS**



**LINEAR**



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