

EDITION 12

LightGraphix

Creative Lighting Solutions

www.lightgraphix.co.uk

LIGHTGRAPHIX

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

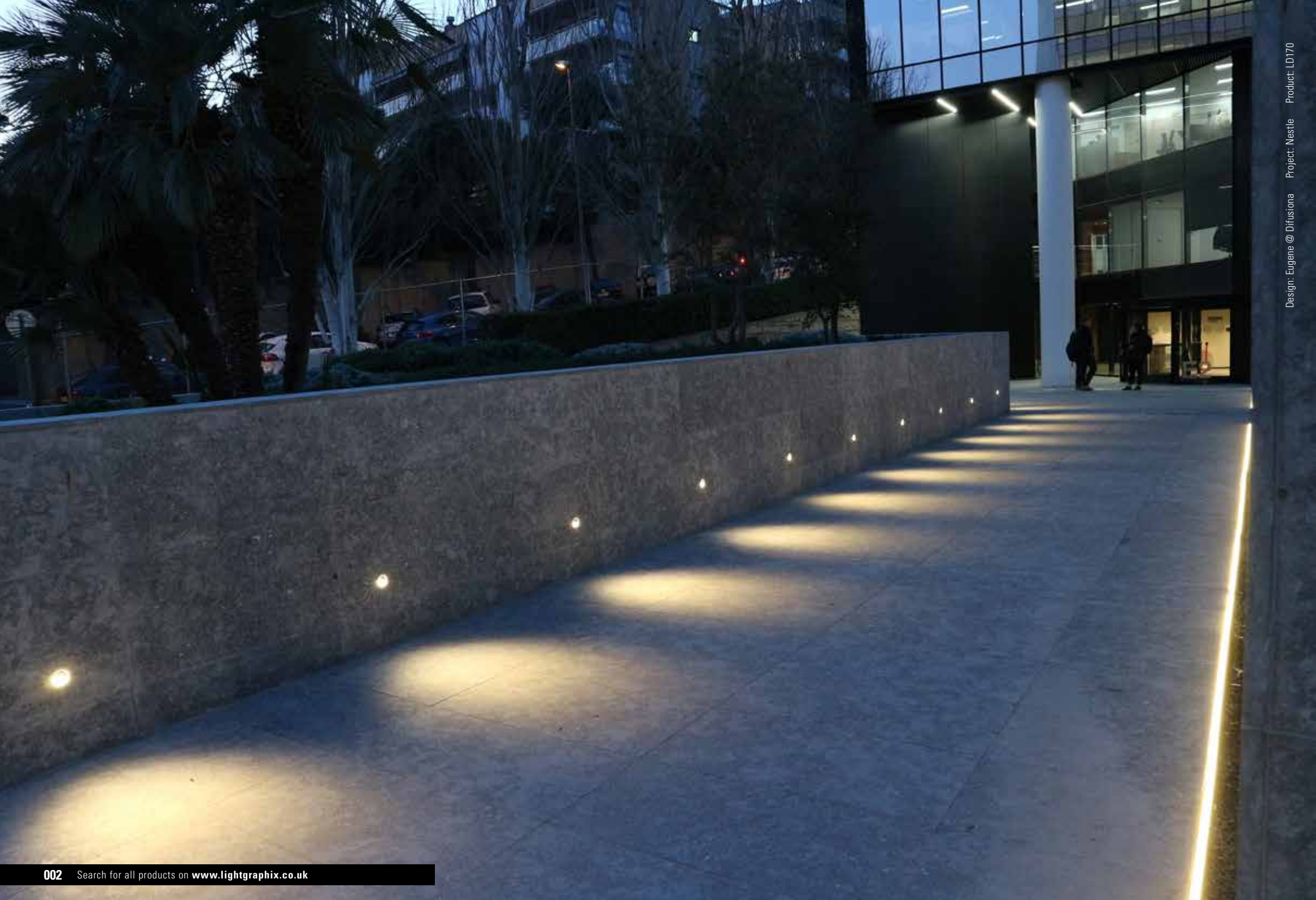
The company started in 1979 in Dartford, Kent and moved to purpose built premises in next door Crayford in 2006. In 2018 the company expanded its premises to double manufacturing and office capacity. Facilities include metalwork and presswork, fabrication, powder and wet spray painting, assembly, a comprehensive showroom and an extensive testing area, which includes a state-of-the-art Goniometer.

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?

- › High quality products machined from the highest grades of aluminium and stainless steel
- › A wealth of experience and thorough testing ensures long life even in the harshest of environments
- › We work with you to develop products that fulfil your exact project specific requirements
- › Linear products are all made to measure to guarantee the perfect fit for any project
- › When you speak to someone at LightGraphix they can help with most enquiries immediately - you won't be passed from person to person to get the information you need.
- › We are passionate about what we do!



Design: Eugene @ Difusione Project: Nestle Product: LD170

TABLE OF CONTENTS

PRODUCT LIST	004
INTRODUCTION	006
SYMBOLS KEY	012
UPLIGHTS AND WALL LIGHTS	014
RECESSED FOOTLIGHTS	024
WALL AND FLOOR MARKERS	058
RECESSED WALL MOUNTED	068
SURFACE MOUNTED	094
DOWNLIGHTS	136
LINEAR	168
ACCESSORIES	228
DRIVERS	232
FINISHES GUIDE	250
INDEX	254
PRODUCT INDEX	256



UPLIGHTS AND WALL LIGHTS



RECESSED FOOTLIGHTS



WALL AND FLOOR MARKERS



RECESSED WALL MOUNTED



SURFACE MOUNTED

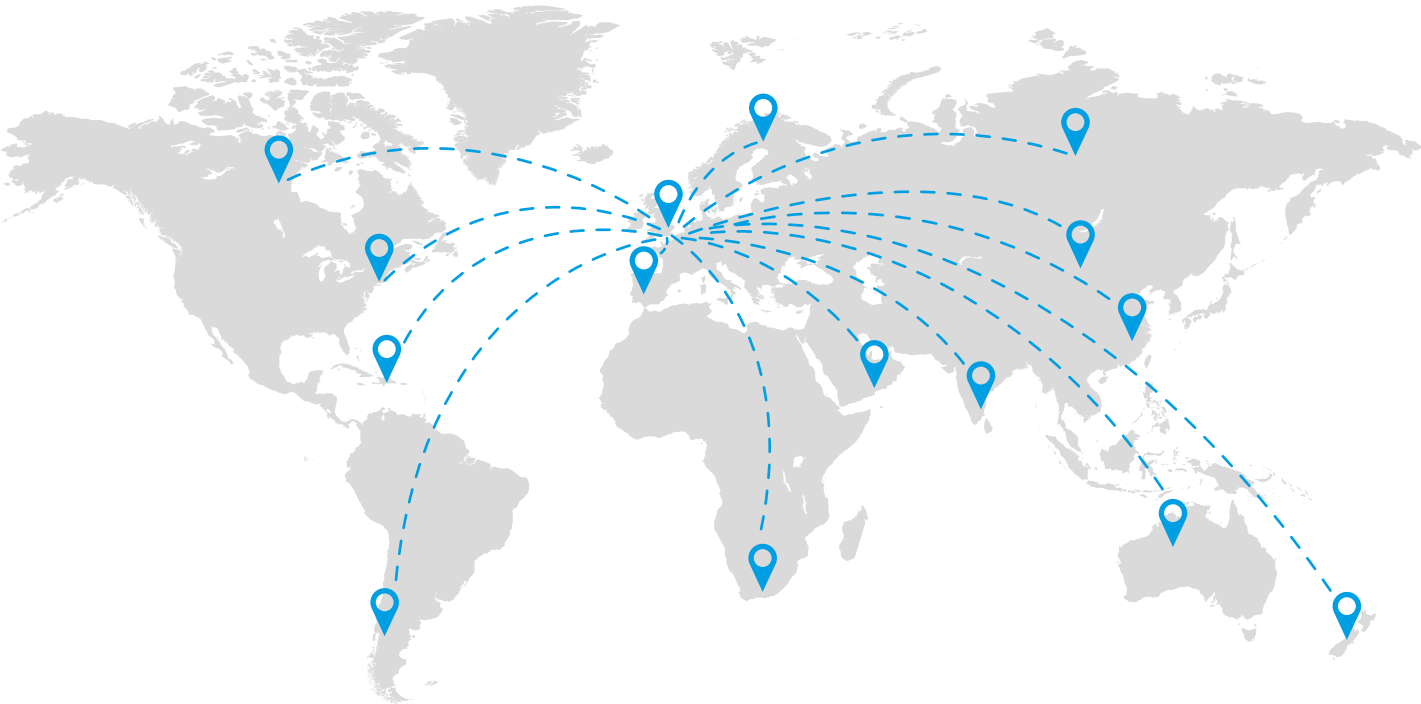


DOWNLIGHTS



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 see our website for a complete list of our global partners.

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 residences.

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) | Jimmy Choo |
| Adare Manor Hotel | Kempinski Hotels |
| Alias Hotels | Lexus Cars |
| British Airways | Mandarin Oriental Hotels |
| British Transport Museum | Marriott Hotels |
| Calvin Klein | Savoy Hotel |
| 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 |
| German Gymnasium | Theo Fennel |
| Google | Travel Lodge |
| Harrods | Tussauds Group |
| Hilton Hotels | Virgin Group |
| Hotel Du Cap-Ferrat | W Hotel |
| Hyatt International | Watches of Switzerland |
| Lansdowne Club | Whitbread Group |
| Intercontinental Corp. | Yves Saint Laurent |



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

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/



OUR WEBSITE

Edition 12 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

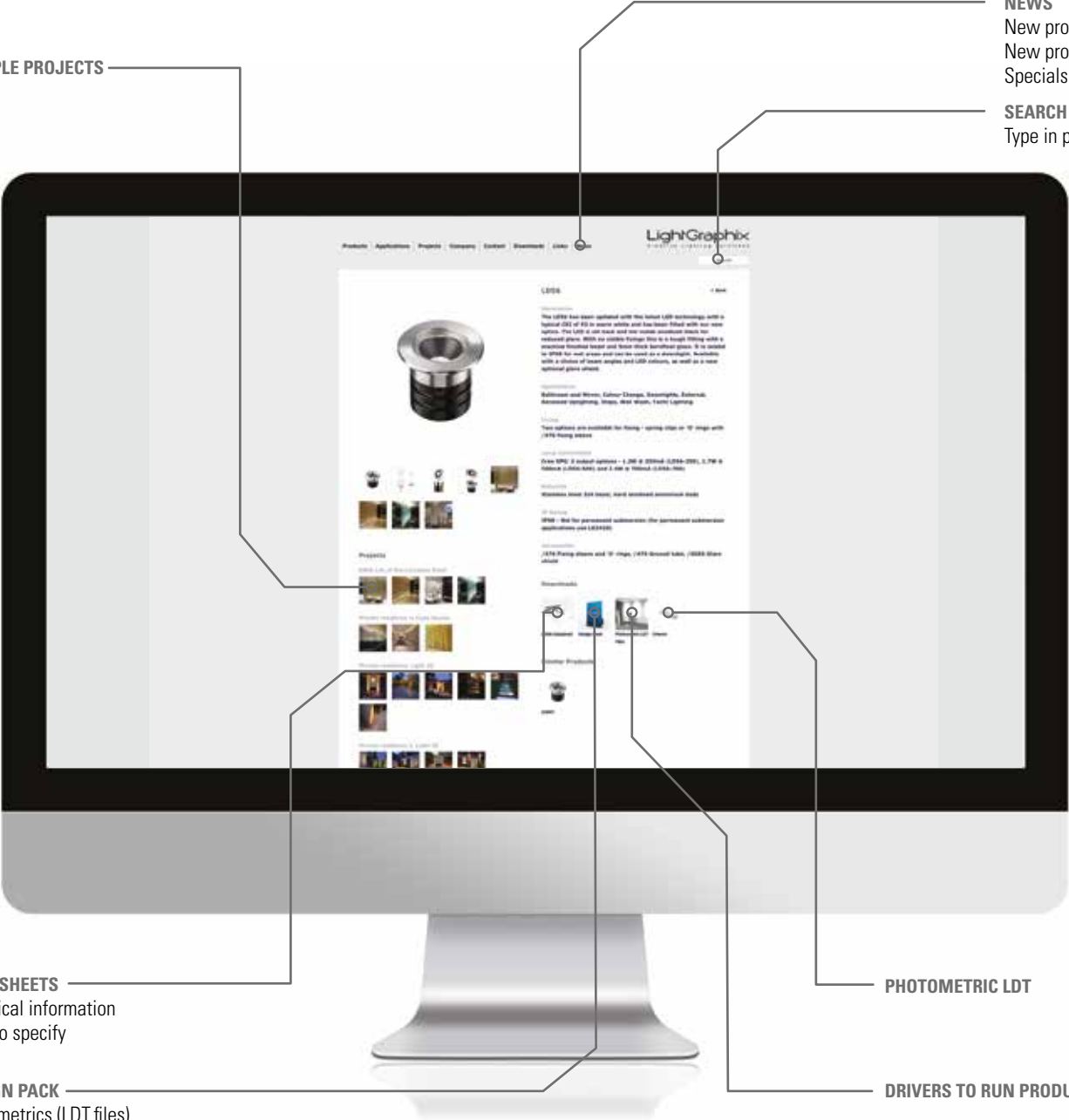
SEARCH
Type in product code

DATA SHEETS
Technical information
How to specify

DESIGN PACK
Photometrics (LDT.files)
Product images
Product diagrams












PHOTOMETRIC LDT

DRIVERS TO RUN PRODUCT







In Edition 12 we have tried to reduce the amount of text. Symbols have been used as a quick visual guide to the product's 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
	COB LED
	3 Cluster LEDs
	3 Cluster with Red LED
	Quad LEDs
	Quad LED with Red LED
	6 Cluster LEDs
	Multiple linear LEDs
	Multiple single colour linear LEDs
	RGB
	RGBW
	Tunable White
	Single Colour

LED INPUT TYPE















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

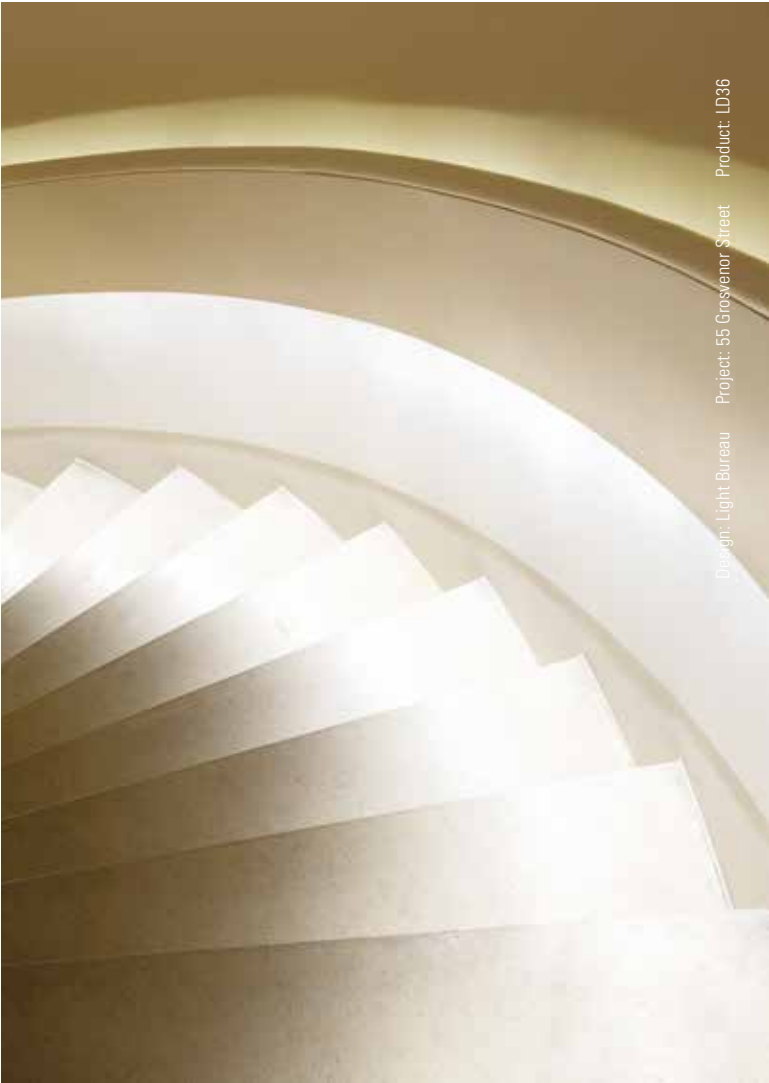
IP RATING

	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 water jets
	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

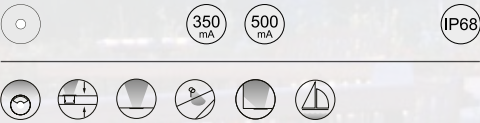
The symbols below show the suggested applications the products can be used in.

	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



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.

Not suitable for permanent submersion. Please use the LD242A, which has fixing options designed for underwater installations.



Design: PJC Lighting Project: Demelza Hospice Product: LD41

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
- > 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

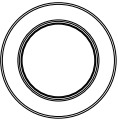
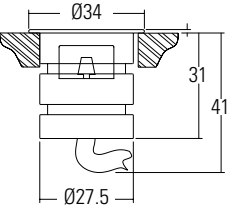
SPECIFICATION

LED	1 x Cree XPG2	
Max drive current	500mA	
Max LED power*	1.7W	
Colour Temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L ₁₀₀)	120	146
Lumens per circuit watt*	71	86

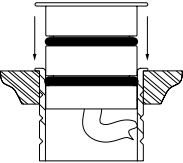
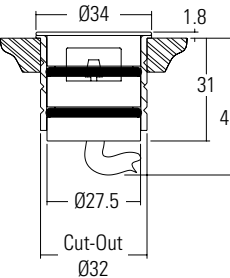
**LED wattage includes losses associated with using an 85% efficient driver
See website for more detailed technical information and photometric files*

DIMENSION AND FIXING OPTIONS

Dimensions in mm



/480 - O-rings and sleeve



See page 230 for optional ground tube

ORDER CODES AND OPTIONS

Product Code	LED Colour	Beam Angle	Finish	Fixing
LD41-350-500				
Example: LD41-500 / LW30 / MB / Stainless Steel / 480				

PRODUCT CODES WITH OUTPUT OPTION

1.2W LED at 350mA	LD41-350
1.7W LED at 500mA	LD41-500

LED COLOUR OPTIONS

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

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

BEAM / LENS ANGLE 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

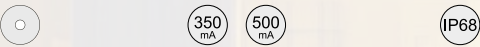
First fix sleeve and O-rings	/480
Ground tube (see page 230 for details)	/480GT

LED DRIVERS

Use with 350mA or 500mA constant current LED drivers (please see page 232)
Switched, 0-10V, 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.

Not suitable for permanent submersion. Please use the LD242A, which has fixing options designed for underwater installations.



Design: Brilliant Lighting Project: Private Residence Product: LD60

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
- > No visible fixings
- > Integral anti-wicking barrier increases protection against moisture ingress due to incorrect IP rated cable connections

SPECIFICATION

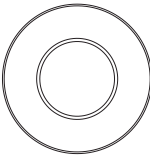
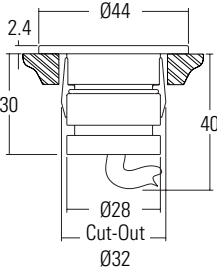
LED	1 x Cree XPG2	
Max drive current	500mA	
Max LED power*	1.7W	
Colour Temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L ₁₀₀)	120	146
Lumens per circuit watt	71	86

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

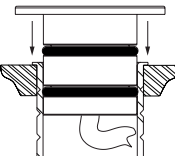
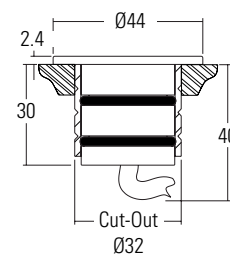
DIMENSION AND FIXING OPTIONS

Dimensions in mm

/SC - Spring clips



/480 - O-rings and sleeve



See page 230 for optional ground tube

ORDER CODES AND OPTIONS

Product Code	LED Colour	Beam Angle	Finish	Fixing
LD60-350 -500	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Example: LD60-500 / LW30 / MB / Stainless Steel / 480				

PRODUCT CODES WITH OUTPUT OPTION

1.2W LED at 350mA	LD60-350
1.7W LED at 500mA	LD60-500

LED COLOUR OPTIONS

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

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

BEAM / LENS ANGLE 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 230 for details)	/480GT

LED DRIVERS

Use with 350mA or 500mA constant current LED drivers (please see page 232)
Switched, 0-10V, 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.



Design: Brilliant Lighting Project: Private Residence Product: LD60

- ### 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 XPG2	
Max drive current	500mA	
Max LED power*	1.7W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L ₁₀₀)	120	146
Lumens per circuit watt	71	86

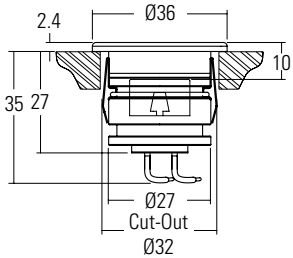
**LED wattage includes losses associated with using an 85% efficient driver
See website for more detailed technical information and photometric files*



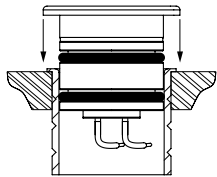
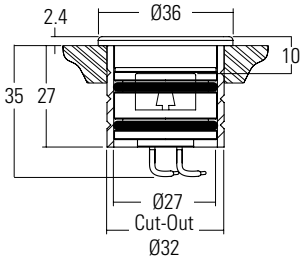
Design: DesignPlusLight Project: Private Residence Product: LD43

DIMENSION AND FIXING OPTIONS Dimensions in mm

/SC - Spring clip fixing

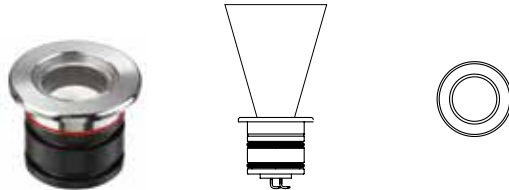


/480 - O-rings and sleeve
A more robust and watertight method of fixing,
for in ground applications.

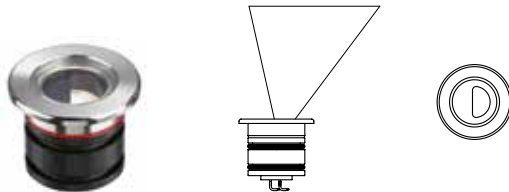


BODY OPTIONS

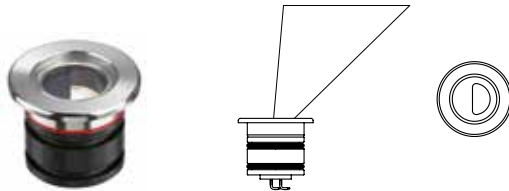
LD43
Lens and LED assembly are recessed into the body by 10mm.



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° tilt 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	Beam Angle	Finish	Fixing
LD43_-350 -500				
Example: LD43A-500 / LW30 / MB / Stainless Steel / 480				

PRODUCT CODES WITH OUTPUT OPTION	
1.2W LED at 350mA	LD43-350 LD43W-350 LD43A-350

1.7W LED at 500mA	LD43-500 LD43W-500 LD43A-500
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LED COLOUR OPTIONS	SUFFIX
Super warm white (2200K)	/LW22
Extra warm white (2700K)	/LW27
Warm white (3000K)	/LW30
White (4000K) - on request	/LW40
Cool white (5000K)	/LW50
Blue	/LB
Green	/LG
Red	/LR
Amber	/LA
*Other LED colour temperatures are available. Please speak to a member of our sales team.	

BEAM / LENS ANGLE 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 (please see page 232)	
Switched, 0-10V, 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 has a very shallow recess depth with the LED and optics 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-SSB-500)



SPECIFICATION

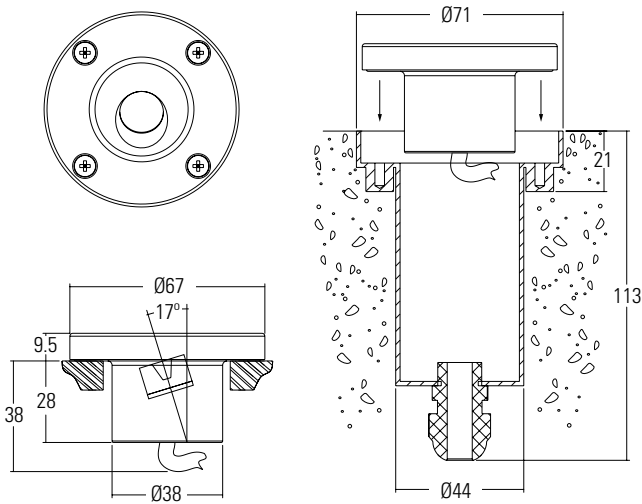
LED	1 x Cree XPG2	
Max drive current	700mA	
Max LED power*	2.4W	
Colour Temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L ₁₀₀)	164	200
Lumens per circuit watt	68	83

*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	Beam Angle	Finish	Fixing
LD18-350 -500 -700	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Example: LD18-700 / LW30 / MB / Stainless Steel / 474				

PRODUCT CODES WITH OUTPUT OPTION

LD18	
1.2W LED at 350mA	LD18-350
1.7W LED at 500mA	LD18-500
2.4W LED at 700mA	LD18-700

LD18-SSB	
1.2W LED at 350mA	LD18-SSB-350
1.7W LED at 500mA	LD18-SSB-500

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

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

BEAM / LENS ANGLE 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 (please see page 232)	
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available	

LD43DR

MINIATURE DEEP RECESSED LED UPLIGHT

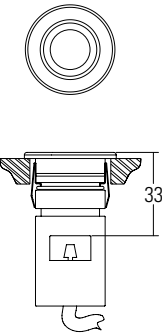


The LD43DR has a very deep recessed LED position with a small aperture, resulting in an uplight with little or no glare. The trade off is a beam which is quite hard on the edges, but makes it ideal for lighting doorways or narrow corridors.



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 suitable for permanent submersion. Please use the LD242A, which has fixing options designed for underwater installations.



SPECIFICATION

LED	1 x Cree XPG2	
Max drive current	700mA	
Max LED power*	2.4W	
Colour Temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L ₁₀₀)	137	166
Lumens per circuit watt	57	69

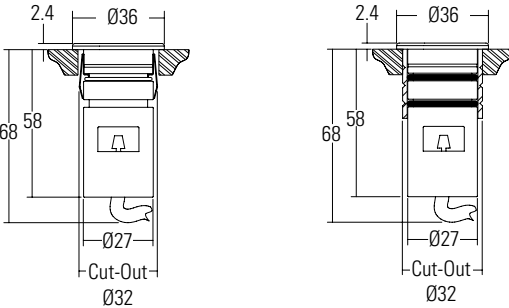
**LED wattage includes losses associated with using an 85% efficient driver
See website for more detailed technical information and photometric files*

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 watertight 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	Beam Angle	Finish	Accessory	Fixing
LD43DR-350 -500 -700	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Example: LD43DR-700 / LW30 / NB / Stainless Steel / GS / 480					

PRODUCT CODES WITH OUTPUT OPTION

1.2W LED at 350mA	LD43DR-350
1.7W LED at 500mA	LD43DR-500
2.4W LED at 700mA	LD43DR-700

LED COLOUR OPTIONS

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

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

BEAM / LENS ANGLE OPTION

12° narrow spot	/NB
-----------------	-----

BEZEL FINISH OPTION

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

ACCESSORIES

Glare shield	/GS
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FIXING OPTION

Spring clips	/SC
First fix sleeve and O-rings	/480
Ground tube (see page 230 for details)	/480GT

LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers (please see page 232)
Switched, 0-10V, 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 suitable for permanent submersion. Please use the LD242A, which has fixing options designed for underwater installations.

SPECIFICATION

LED	1 x Cree XPG2	
Max drive current	700mA	
Max LED power*	2.4W	
Colour Temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L ₁₀₀)	164	200
Lumens per circuit watt	68	83

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



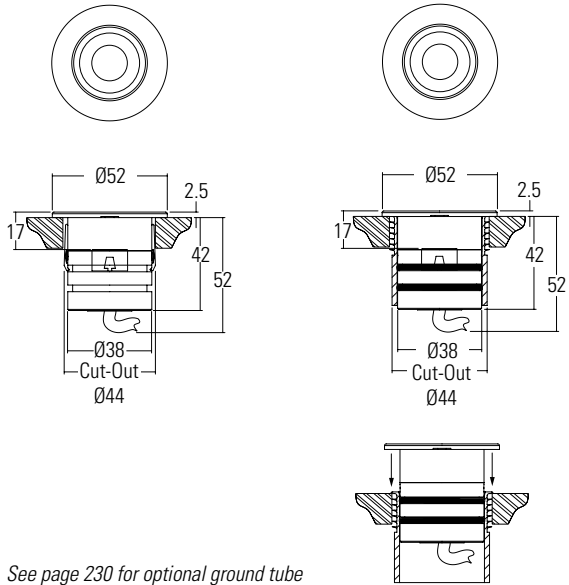


Design: Elektra Lighting Project: Private residence Product: LD56

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 watertight method of fixing, for in-ground applications.



See page 230 for optional ground tube

ACCESSORIES

An optional glare shield is available to further reduce glare from the LED and optic (please note this is not available with oval beam lens).



/GS56 - Half-moon glare shield
This glare shield is useful in very 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	Beam Angle	Finish	Accessory	Fixing
LD56-350 -500 -700					
Example: LD56-700 / LW30 / MB / Stainless Steel / GS56 / 476					

PRODUCT CODES WITH OUTPUT OPTION

1.2W LED at 350mA	LD56-350
1.7W LED at 500mA	LD56-500
2.4W LED at 700mA	LD56-700

LED COLOUR OPTIONS

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

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

BEAM / LENS ANGLE 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
- Flamed solid bronze (antique finish)

ACCESSORIES

Half-moon glare shield	/GS56
------------------------	-------

FIXING OPTION





Spring clips	/SC
First fix sleeve and O-rings	/476
Ground tube (see page 230 for details)	/476GT


LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers (please see page 232)
Switched, 0-10V, 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.



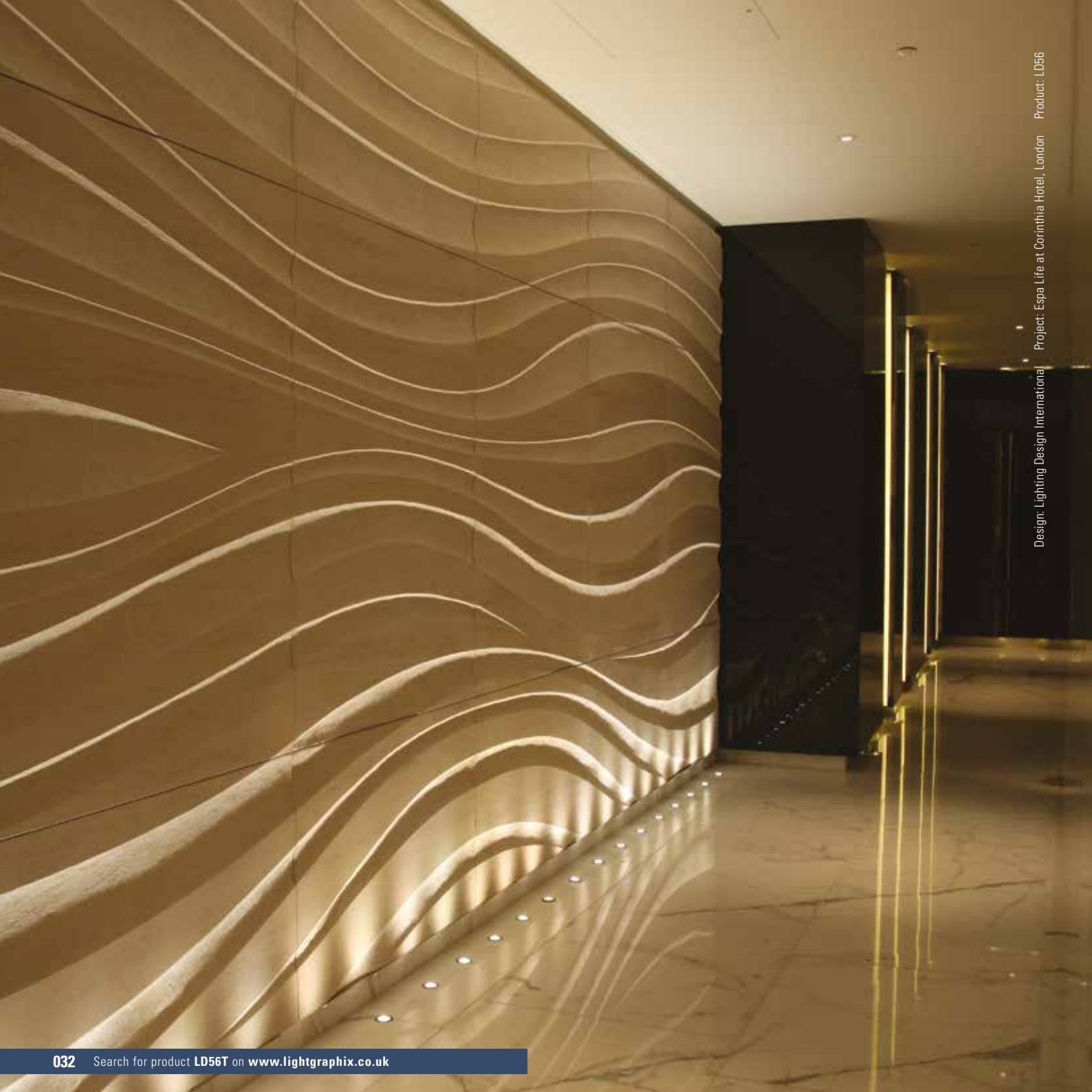
- KEY FEATURES
- > LED and lens assembly recessed and tilted at 6° within a black anodised body for reduced glare
 - > Tilted beam angle makes it an ideal solution for wall washing and column uplighting
 - > Excellent diffused beam shape from a range of optics
 - > Optional glare shield accessory
 - > 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 suitable for permanent submersion. Please use the LD242A, which has fixing options designed for underwater installations

SPECIFICATION

LED	1 x Cree XPG2	
Max drive current	700mA	
Max LED power*	2.4W	
Colour Temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L ₁₀₀)	164	200
Lumens per circuit watt	68	83

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



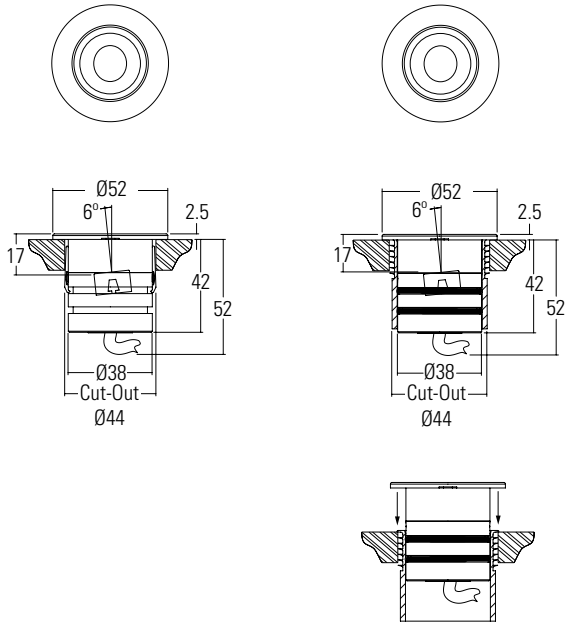


Design: Lighting Design International Project: Espa Life at Corinthia Hotel, London Product: LD56

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 watertight method of fixing, for in-ground applications.



See page 230 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	Beam Angle	Finish	Accessory	Fixing
LD56T-350 -500 -700	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Example: LD56T-700 / LW30 / MB / Stainless Steel / 476					

PRODUCT CODES WITH OUTPUT OPTION	
1.2W LED at 350mA	LD56T-350
1.7W LED at 500mA	LD56T-500
2.4W LED at 700mA	LD56T-700

LED COLOUR OPTIONS	SUFFIX
Super warm white (2200K)	/LD22
Extra warm white (2700K)	/LW27
Warm white (3000K)	/LW30
White (4000K) - on request	/LW40
Cool white (5000K)	/LW50
Blue	/LB
Green	/LG
Red	/LR
Amber	/LA
*Other LED colour temperatures are available. Please speak to a member of our sales team.	

BEAM / LENS ANGLE 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	
Flamed solid bronze (antique finish)	



ACCESSORIES	
Glare shield	/GS56


FIXING OPTION	
Spring clips	/SC
First fix sleeve and O-rings	/476
Ground tube (see page 230 for details)	/476GT

LED DRIVERS	
Use with 350mA, 500mA or 700mA constant current LED drivers (please see page 232)	
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available	

LD56RGB

LOW GLARE EXTERIOR COLOUR
CHANGE LED UPLIGHTER





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.



Project: Buddha Bar, London Product: LD151 RGB 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 suitable for permanent submersion. Please use the LD242A, which has fixing options designed for underwater installations.

SPECIFICATION

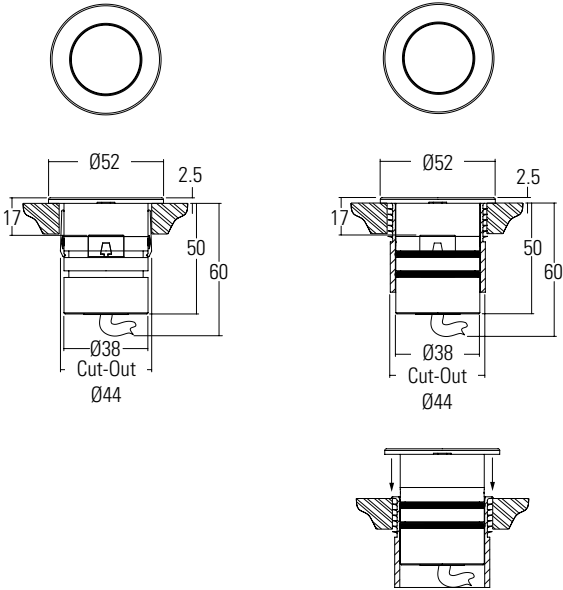
LED	1 x Cree XML RGB
Max drive current	350mA
Max LED power*	3.6W

**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 clip fixing
Useful for plinth or downlight applications.
- /476 - O-rings and sleeve
A more robust and watertight method of fixing, for in-ground applications.



ORDER CODES AND OPTIONS

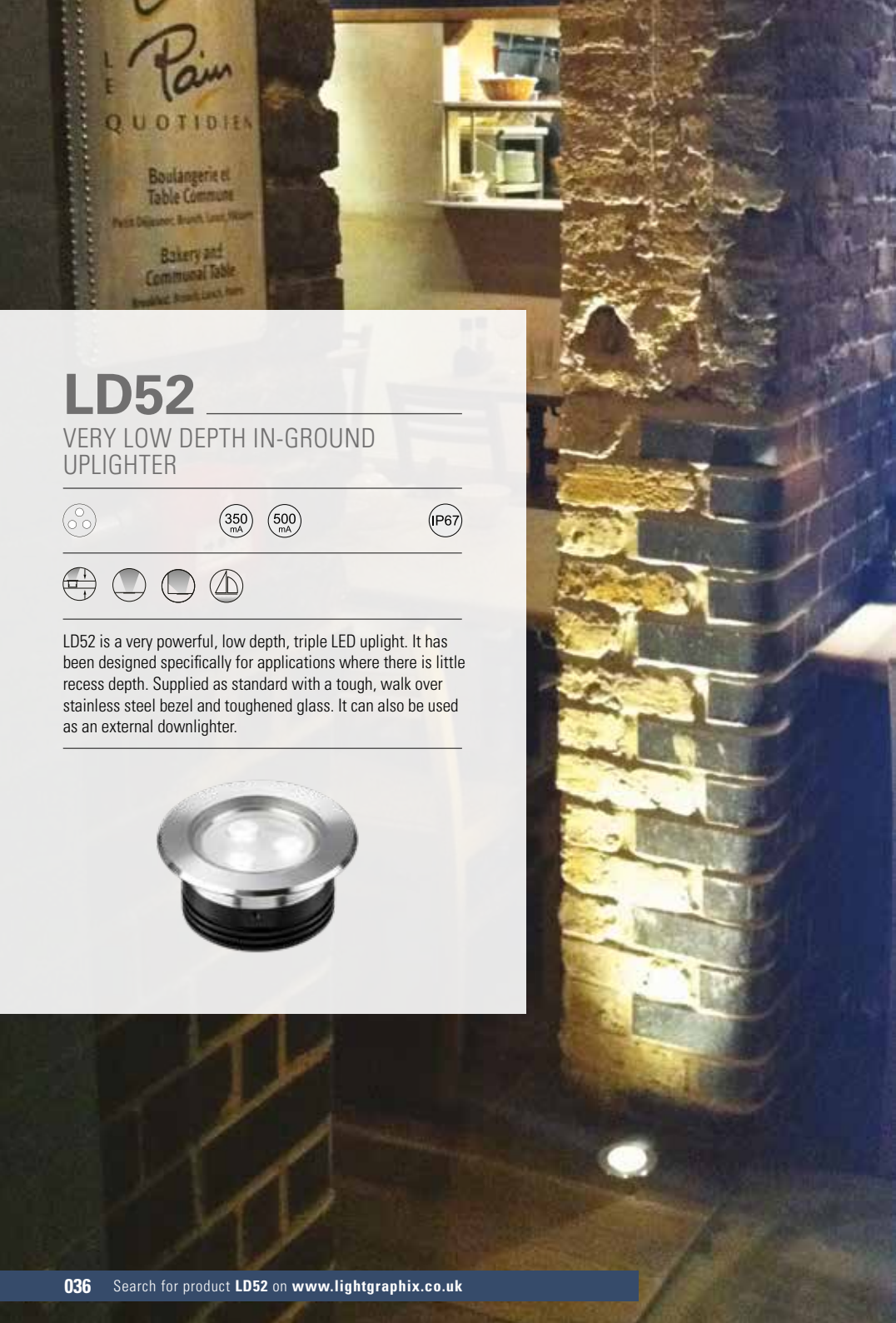
Product Code	Beam Angle	Finish	Fixing
LD56RGB			
Example: LD56RGB / MB / Stainless Steel / 476			

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
Flamed solid bronze (antique finish)

FIXING OPTION _____
Spring clips /SC
First fix sleeve and O-rings /476
Ground tube (see page 230 for details) /476GT

LED DRIVERS _____
Use with 350mA constant current LED drivers (please see page 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available



LD52

VERY LOW DEPTH IN-GROUND UPLIGHTER

350mA

500mA

IP67



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

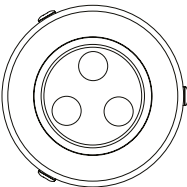
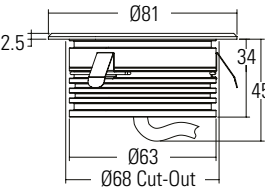
LED	3 x Cree XPG2	
Max drive current	500mA	
Max LED power*	5.1W	
Colour Temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L ₁₀₀)	338	433
Lumens per circuit watt	68	87

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

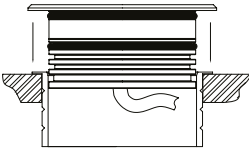
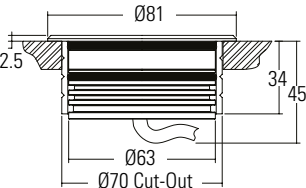
DIMENSION AND FIXING OPTIONS

Dimensions in mm

/SC - Spring clips



/484S - First fix sleeve with O-rings



ORDER CODES AND OPTIONS

Product Code	LED Colour	Beam Angle	Finish	Fixing
LD52-350-500	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Example: LD52-500 / LW30 / MB / Powder coated white / SC				

PRODUCT CODES WITH OUTPUT OPTION

3.6W LED at 350mA	LD52-350
5.1W LED at 500mA	LD52-500

LED COLOUR OPTIONS

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

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

BEAM / LENS ANGLE 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 (not suitable for high traffic areas)
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 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available

LD150

HIGH POWER INTERIOR LED UPLIGHTER



The new LD150 features the all new E1 LED engine, optional glare shields and a new range of optics. Tunable White and RGBW options are also available. A 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.



Design: L + DG Thomas Gravanis Lighting Architects | Project: Private residence | Product: LD150

KEY FEATURES

- > New LED light engines offer single white, 2nd channel, Colour, RGBW, and Tunable white LED options
- > Single optic produces a very consistent beam with no multiple shadows
- > LED and lens recessed in a matt black anodised body for reduced glare
- > 700mA option when specified with /482N concrete housing, delivering up to 555 lumens in single white
- > Range of beam angles featuring a narrow 10° spot for lighting columns and arches, or a 15°x 49° spreader lens, which is ideal for wall washing applications
- > Range of bezel finish options
- > Built-in reverse polarity protection

SPECIFICATION

LED type	1 x E1 LED Engine Cree XHP 35	
Max drive current*	700mA	
Max LED power**	10W	
Colour temperature	3000K	5000K
CRI (typical)	85	80
Delivered lumens (L ₁₀₀)	555	599
Lumens per circuit watt	55	59

**700mA version can only be specified with /482N concrete housing*
***LED wattage includes losses associated with using an 85% efficient driver*
See our website for more detailed technical information and photometric files





GLARE SHIELDS

LD150 now comes with a choice of glare control options.



/NGS
No glare shield for maximum lumen output. Deep recessed optic and matt black anodised optic holder aids in glare reduction.



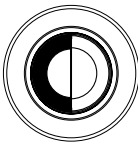
/GS
Standard glare shield. Introduced in 2010, this glare shield provides an excellent balance between glare control and lumen output. This accessory works well in most applications.



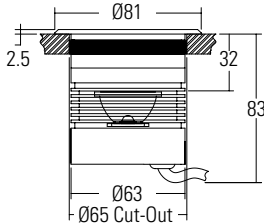
/GSHM
Half-moon glare shield for applications that require very low glare. Minimal loss of light on lit surface (wall) but overall lumen output typically reduced by 50-60%.

DIMENSIONS AND FIXING OPTIONS

Dimensions in mm



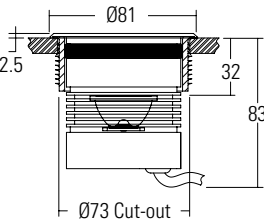
Soft silicon seal holds the fitting into cut-out



/482S First fix sleeve

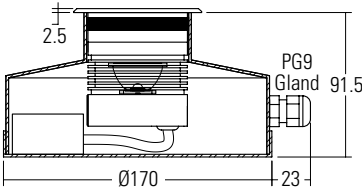


First fix sleeve is polypropylene
Fins on the side lock it into a range of mounting surfaces



/482N - Concrete housing

Concrete housing must be used when specifying the 700mA fitting. The aluminium aids in keeping the LED fitting cool, as it helps with thermal transfer between the heat within the can to the surrounding concrete.



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

Concrete housing can be specified with an integral mains in non dimming LED driver.

ORDER CODES AND OPTIONS FOR E1 LIGHT ENGINE

(for 2nd channel, Colour, RGBW and Tunable white, please see data sheets online)

Product Code	LED Colour	Beam Angle	Glare Shield	Finish	Fixing Accessories
LD150-350					
-500					
-700					
Example: LD150-E1-700 / LW30 / NB / NGS / Stainless Steel / 482N					

PRODUCT CODES WITH OUTPUT OPTION

5W LED at 350mA	LD150-E1-350
7W LED at 500mA	LD150-E1-500
10W LED at 700mA (Must be specified with /482N)	LD150-E1-700

LED COLOUR OPTIONS

Extra warm white (2700K)	/LW27
Warm white (3000K)	/LW30
White (4000K) - on request	/LW40
Cool white (5000K)	/LW50
With 2nd channel (red for navigation or amber night lighting) LD150-E1-2CH	/LW**+L*
*Other LED colour temperatures are available. Please speak to a member of our sales team.	

BEAM / LENS ANGLE OPTION

10° narrow spot	/NB
19° medium	/MB
34° wide	/WB
54° extra wide	/WWB
15° x 49° oval	/OB

GLARE SHIELD

No glare shield	/NGS
Standard glare shield	/GS
Half-moon glare shield	/GSHM

BEZEL FINISH OPTION

Stainless steel 316	
Paint finish white / black / RAL (not suitable for high traffic areas)	
Polished and passivated stainless steel (for marine environments)	
Flamed solid bronze (antique finish)	

FIXING ACCESSORIES

First fix sleeve	/482S
Concrete housing (specify when choosing LD150-E1-700)	/482N
with integral non-dimming driver (350mA & 500mA outputs only)	/ID

LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers (please see page 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available

LD150T

HIGH POWER INTERIOR
TILTED LED UPLIGHTER

350
mA

500
mA

700
mA

IP67



The LD150T has been designed with the LED and optics on a 6° tilt. This allows the light to be focused onto the lit surface, and enables the uplighters to be set further away from the wall if required. It has been designed specifically to produce low glare illumination to exterior walls and columns. Very powerful for its size and depth, the LD150T features the E1 LED engine, high efficiency optics and a range of different light engine options. 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: James Morse Lighting Design Project: Rochester Cathedral Product: LD150

KEY FEATURES

- > 6° tilt focuses the light onto the lit surface
- > Tilt enables uplight to be placed further away from the lit surface whilst still achieving the desired effect, while any glare from the fitting is angled away from view
- > LED/Lens assembly recessed and tilted within a black anodised body for reduced glare
- > E1 engine, featuring the CREE XHP35 LED with 2-step binning
- > High output 700mA option when specified with the /482N concrete housing, delivering up to 542 lumens
- > Range of beam angles featuring a narrow 10° spot for lighting columns and arches, or a 15°x 49° spreader lens, ideal for wall washing
- > Half-moon glare shield option 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
- > No visible fixings
- > Range of bezel finish options
- > Built-in reverse polarity protection

GLARE SHIELDS



/NGS
No glare shield for maximum lumen output. Deep recessed optic and matt black anodised optic holder aids in glare reduction.



/GS
Half-moon style glare shield design, unique to the LD150T. Designed for a balanced output and glare control.

Please refer to our photometric files for lumen data.

SPECIFICATION

LED type	1 x E1 LED Engine Cree XHP 35	
Max drive current*	700mA	
Max LED power**	10W	
Colour temperature	3000K	5000K
CRI (typical)	85	80
Delivered lumens (L ₁₀₀)	542	585
Lumens per circuit watt	54	58

**700mA version can only be specified with 482N concrete housing. 500mA for all other fixing details*
***LED wattage includes losses associated with using an 85% efficient driver*
See our website for more detailed technical information and photometric files



Product LD151T with /GS



Product: LD150 Photography: Lynn Sammonds
Design: James Morse Lighting Design Project: Rochester Cathedral

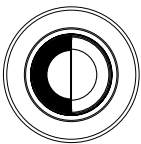
6° TILT

Both the LED and the optic are angled at a 6° tilt, allowing for more efficient use of a glare shield, as more of the light output is directed towards the open aperture of the fitting.

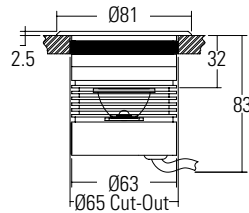


DIMENSIONS AND FIXING OPTIONS

Dimensions in mm



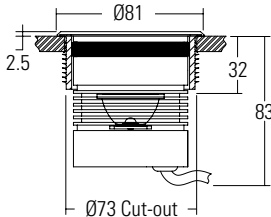
Soft silicon seal holds the fitting into cut-out



/482S First fix sleeve

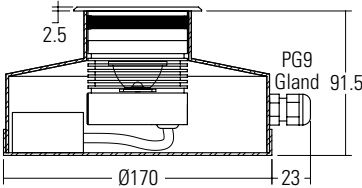


First fix sleeve is polypropylene
Fins on the side lock it into a range of mounting surfaces



/482N - Concrete housing

Must be used when specifying the 700mA fitting. The aluminium housing aids in keeping the LED fitting cool, as it helps with thermal transfer between the heat within the housing to the surrounding concrete.



/ID - Optional integral non-dimming driver (single colour only at 350mA or 500mA)

ORDER CODES AND OPTIONS

Product Code	LED Colour	Beam Angle	Glare Shield	Finish	Fixing Accessories
LD150T-E1 350	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
500	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
700	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Example: LD150T-E1-700 / LW30 / NB / NGS / Stainless Steel / 482N

PRODUCT CODES WITH OUTPUT OPTION

5W LED at 350mA	LD150T-E1-350
7W LED at 500mA	LD150T-E1-500
10W LED at 700mA (Must be specified with /482N)	LD150T-E1-700

LED COLOUR OPTIONS

LED COLOUR OPTIONS	SUFFIX
Extra warm white (2700K)	/LW27
Warm white (3000K)	/LW30
White (4000K) - on request	/LW40
Cool white (5000K)	/LW50
With 2nd channel (red for navigation or amber night lighting) LD150T-E1-2CH	/LW**+L*

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

BEAM / LENS ANGLE OPTION

10° narrow spot	/NB
19° medium	/MB
34° wide	/WB
54° extra wide	/WWB
15° x 49° oval	/OB

GLARE SHIELD

No glare shield	/NGS
Half-moon glare shield	/GS

BEZEL FINISH OPTION

Stainless steel 316	
Paint finish white / black / RAL (not suitable for high traffic areas)	
Polished and passivated stainless steel (for marine environments)	
Flamed solid bronze (antique finish)	

FIXING ACCESSORIES

First fix sleeve	/482S
Concrete housing (specify when choosing LD150T-E1-700)	/482N
with integral non-dimming driver (350mA & 500mA outputs only)	/ID

LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers (please see page 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available

LD151

HIGH POWER INTERIOR/EXTERIOR
TILTED LED UPLIGHTER



The new LD151 features the all new E1 LED engine, optional glare shields and a new range of optics. Tunable White and RGBW options are also available. A powerful uplighter for its size and depth, the new LD151 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. Ideal for interior or external applications.



Design: Greenleaf Lighting Project: Private Residence Product: LD151

KEY FEATURES

- > New LED light engines offer single white, 2nd channel, Colour, RGBW, and Tunable white LED options
- > Single optic produces a very consistent beam with no multiple shadows
- > LED and lens recessed in a matt black anodised body for reduced glare
- > 700mA option when specified with /482N concrete can, delivering up to 555 lumens in single white
- > Range of beam angles featuring a narrow 10° spot for lighting columns and arches, or a 15°x 49° spreader lens, which is ideal for wall washing applications
- > Range of bezel finish options
- > Built-in reverse polarity protection

SPECIFICATION

LED type	1 x E1 LED Engine Cree XHP	
Max drive current*	700mA*	
Max LED power**	10W	
Colour temperature	3000K	5000K
CRI (typical)	85	80
Delivered lumens (L ₁₀₀)	555	599
Lumens per circuit watt	55	59

**700mA version can only be specified with 484N concrete housing. 500mA for all other fixing details*
***LED wattage includes losses associated with using an 85% efficient driver*
See our website for more detailed technical information and photometric files





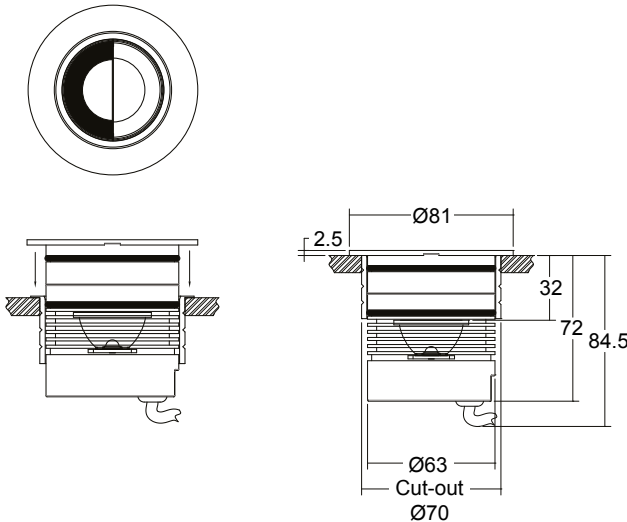
Design: LD Luz Project: Penguin Island Villa, Mallorca Product: LD151

FIXING ACCESSORIES

Dimensions in mm

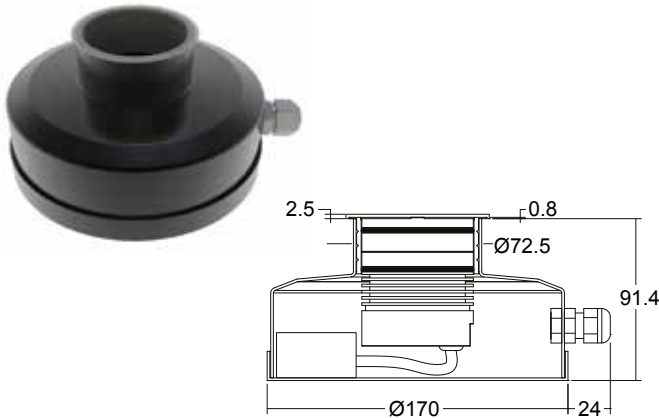
The fitting is supplied as standard with a fixing sleeve; this is bonded into the mounting surface first. The LD151 is secured into the sleeve by 2 O-rings on the body. When pushed into the sleeve it creates a watertight seal.

/484S First fix sleeve supplied as standard



/484N Concrete housing

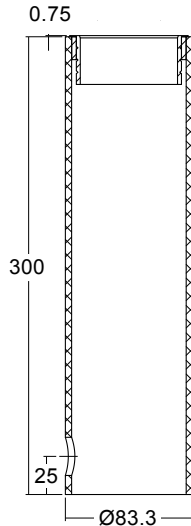
Must be used when specifying the 700mA fitting. The aluminium housing aids in keeping the LED fitting cool, as it helps with thermal transfer between the heat within the housing to the surrounding concrete.



/ID Optional integral non-dimming driver (single colour only at 350mA or 500mA)

/484GT Ground tube

The ground tube has 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. It is supplied with the fixing sleeve bonded into the tube, and can be cut down on site.



GLARE SHIELDS

LD151 now comes with a choice of glare control options.



/NGS
No glare shield for maximum lumen output. Deep recessed optic and matt black anodised optic holder aids in glare reduction.



/GS
Standard glare shield. Introduced in 2010, this glare shield provides an excellent balance between glare control and lumen output. This accessory works well in most applications.



/GSHM
Half-moon glare shield for applications that require very low glare. Minimal loss of light on lit surface (wall) but overall lumen output typically reduced by 50-60%.

ORDER CODES AND OPTIONS FOR E1 LIGHT ENGINE

(for 2nd channel, Colour, RGBW and Tunable white, please see data sheets online)

Product Code	LED Colour	Beam Angle	Glare Shield	Finish	Fixing Accessories
LD151-E1 350	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
500	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
700	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Example: LD151-E1-700 / LW30 / NB / NGS / Stainless Steel / 484N					

PRODUCT CODES WITH OUTPUT OPTION

5W LED at 350mA	LD151-E1-350
7W LED at 500mA	LD151-E1-500
10W LED at 700mA (Must be specified with /484N)	LD151-E1-700

LED COLOUR OPTIONS

Extra warm white (2700K)	/LW27
Warm white (3000K)	/LW30
White (4000K) - on request	/LW40
Cool white (5000K)	/LW50
With 2nd channel (red for navigation or amber night lighting) LD151-E1-2CH	/LW**+L*
*Other LED colour temperatures are available. Please speak to a member of our sales team.	

BEAM / LENS ANGLE OPTION

10° narrow spot	/NB
19° medium	/MB
34° wide	/WB
54° extra wide	/WWB
15° x 49° oval	/OB

GLARE SHIELD

No glare shield	/NGS
Standard glare shield	/GS
Half-moon glare shield	/GSHM

BEZEL FINISH OPTION

Stainless steel 316
Paint finish white / black / RAL (not suitable for high traffic areas)
Polished and passivated stainless steel (for marine environments)
Flamed solid bronze (antique finish)

FIXING ACCESSORIES

First fix sleeve (supplied as standard)	/484S
Concrete housing (specify when choosing LD151-E1-700)	/484N
with integral non-dimming driver (350mA & 500mA outputs only)	/ID
Ground tube	/484GT

LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers (please see page 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available



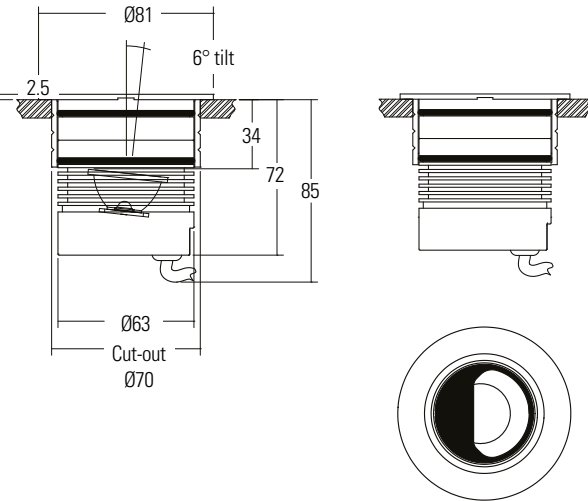
Design: Light ID Project: Private Residence Product: LD151T

FIXING ACCESSORIES

Dimensions in mm

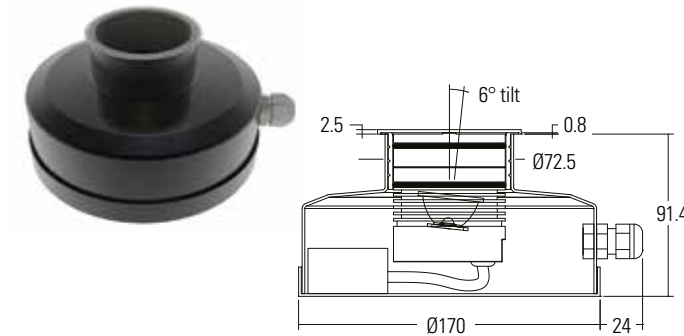
The fitting is supplied as standard with a fixing sleeve which is bonded into the mounting surface first. The LD151T is secured into the sleeve by 2 O-rings on the body; when pushed into the sleeve it creates a watertight seal.

/484S First fix sleeve supplied as standard



/484N Concrete housing

Must be used when specifying the 700mA fitting. The aluminium can aids in keeping the LED fitting cool, as it helps with thermal transfer between the heat within the can to the surrounding concrete.



/ID Optional integral non-dimming driver (single colour only at 350mA or 500mA)

/484GT Ground tube

The ground tube has 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. It is supplied with the fixing sleeve bonded into the tube, and can be cut down on site.



6° TILT

Both the LED and the optic are put at a 6° tilt, allowing for more efficient use of a glare shield, as more of the light output is directed towards the open aperture of the fitting.



ORDER CODES AND OPTIONS

Product Code	LED Colour	Beam Angle	Glare Shield	Finish	Fixing Accessories
LD151T-E1 350					
500					
700					
Example: LD151T-E1-700 / LW30 / NB / NGS / Stainless Steel / 484N					

PRODUCT CODES WITH OUTPUT OPTION

5W LED at 350mA	LD151T-E1-350
7W LED at 500mA	LD151T-E1-500
10W LED at 700mA (Must be specified with /484N)	LD151T-E1-700

LED COLOUR OPTIONS

	SUFFIX
Extra warm white (2700K)	/LW27
Warm white (3000K)	/LW30
White (4000K) - on request	/LW40
Cool white (5000K)	/LW50
With 2nd channel (red for navigation or amber night lighting) LD151T-E1-2CH	/LW**+L*
*Other LED colour temperatures are available. Please speak to a member of our sales team.	

BEAM / LENS ANGLE OPTION

10° narrow spot	/NB
19° medium	/MB
34° wide	/WB
54° extra wide	/WWB
15° x 49° oval	/OB

BEZEL FINISH OPTION

Stainless steel 316	
Paint finish white / black / RAL (not suitable for high traffic areas)	
Polished and passivated stainless steel (for marine environments)	
Flamed solid bronze (antique finish)	

GLARE SHIELD

No glare shield	/NGS
Half-moon glare shield	/GS

FIXING ACCESSORIES

First fix sleeve (supplied as standard)	/484S
Concrete housing (specify when choosing LD151T-E1-700)	/484N
with integral non-dimming driver (350mA & 500mA single colour only)	/ID
Ground tube	/484GT

LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers (please see page 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available

LD153

HIGH POWER INTERIOR/EXTERIOR LED UPLIGHTER



The new LD153 features the all new E1 LED engine, optional glare shields and a new range of optics. Tunable White and RGBW options are also available. A 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.



KEY FEATURES

- > New LED light engines offer single white, 2nd channel, Colour, RGBW, and Tunable white LED options
- > New optional 2nd channel LEDs for secondary lighting applications
- > 700mA option when specified with the /483N concrete housing, delivering up to 555 lumens
- > Range of beam angles including a narrow 10° spot for lighting columns and arches, or a 15°x 49° spreader lens, which is ideal for wall washing applications
- > Single optic produces a very consistent beam with no multiple shadows
- > LED and lens recessed in a matt black anodised body for reduced glare
- > 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 watertight seal
- > Range of bezel finish options
- > Built-in reverse polarity protection

SPECIFICATION

LED type	1 x E1 LED Engine Cree XHP	
Max drive current*	700mA*	
Max LED power**	10W	
Colour temperature	3000K	5000K
CRI (typical)	85	80
Delivered lumens (L ₁₀₀)	555	599
Lumens per circuit watt	55	59

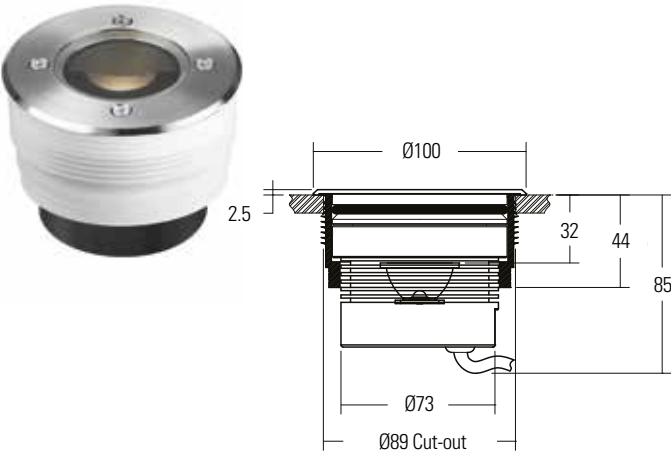
**700mA version can only be specified with 483N concrete housing. 500mA for all other fixing details*
***LED wattage includes losses associated with using an 85% efficient driver*
See our website for more detailed technical information and photometric files



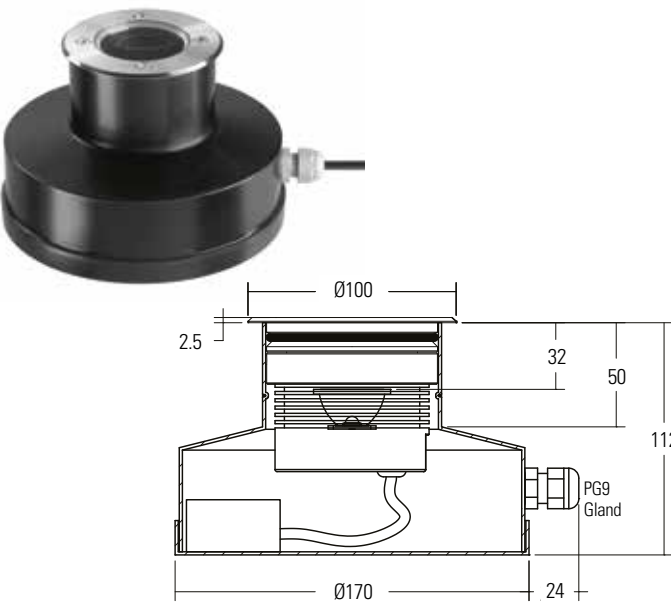
DIMENSIONS & FIXING OPTIONS

Dimensions in mm

The LD153 must be used with one of these fixing options



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



/483N Concrete Housing
/ID Optional integral non-dimming driver (single colour only at 350mA or 500mA)

Concrete housing must be used when specifying the 700mA fitting. The aluminium can aids in keeping the LED fitting cool, as it helps with thermal transfer between the heat within the can to the surrounding concrete.

FIXING MECHANISM



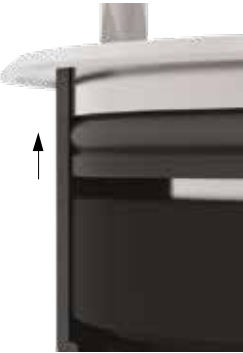
Fitting pushed into housing



Orientate fitting. Then tighten 4 screws



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



GLARE SHIELDS

LD153 comes with a choice of glare control options.



/NGS
For maximum lumen output. Deep recessed optic and matt black anodised optic holder aids in glare reduction.



/GS
Standard glare shield. Introduced in 2010, this glare shield provides an excellent balance between glare control and lumen output. This accessory works well in most applications.



/GSHM
Half-moon glare shield for applications that require very low glare. Minimal loss of light on lit surface (wall) but overall lumen output typically reduced by 50-60%.

Please refer to our photometric files for lumen data.

ORDER CODES AND OPTIONS FOR E1 LIGHT ENGINE

(for 2nd channel, Colour, RGBW and Tunable white, please see data sheets online)

Product Code	LED Colour	Beam Angle	Glare Shield	Finish	Fixing Accessories
LD153-E1 350					
500					
700					
Example: LD153-E1-700 / LW30 / NB / NGS / Stainless Steel / 483N					

PRODUCT CODES WITH OUTPUT OPTION

5W LED at 350mA	LD153-E1-350
7W LED at 500mA	LD153-E1-500
10W LED at 700mA (Must be specified with /483N)	LD153-E1-700

LED COLOUR OPTIONS

Extra warm white (2700K)	/LW27
Warm white (3000K)	/LW30
White (4000K) - on request	/LW40
Cool white (5000K)	/LW50
With 2nd channel (red for navigation or amber night lighting) LD153-E1-2CH	/LW**+L*
*Other LED colour temperatures are available. Please speak to a member of our sales team.	

BEAM / LENS ANGLE OPTION

10° narrow spot	/NB
19° medium	/MB
34° wide	/WB
54° extra wide	/WWB
15° x 49° oval	/OB

GLARE SHIELD

No glare shield	/NGS
Standard glare shield	/GS
Half-moon glare shield	/GSHM

BEZEL FINISH OPTION

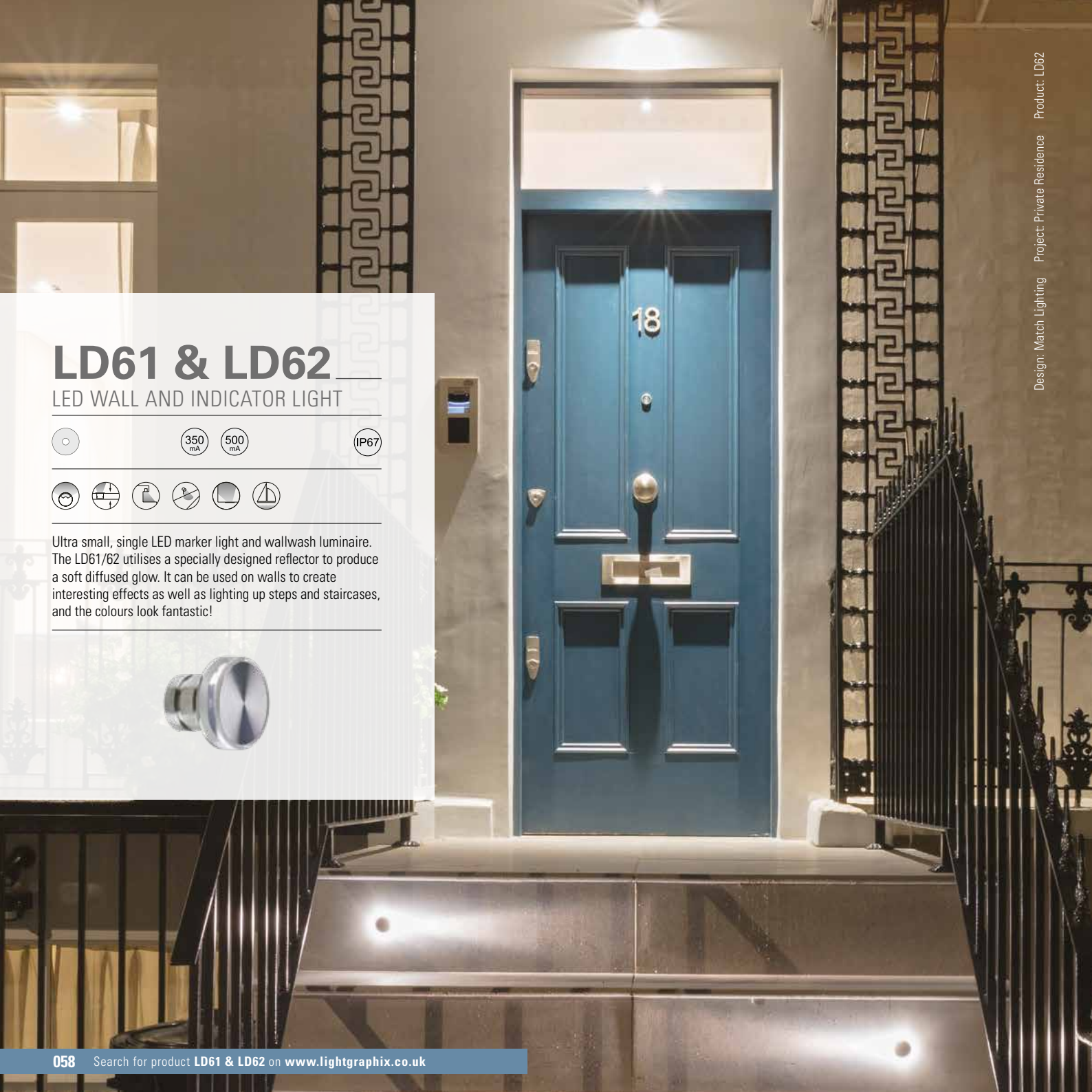
Stainless steel 316	
Paint finish white / black / RAL (not suitable for high traffic areas)	
Polished and passivated stainless steel (for marine environments)	
Flamed solid bronze (antique finish)	

FIXING ACCESSORIES

First fix sleeve	/483S
Concrete housing (specify when choosing LD153-E1-700)	/483N
with integral non-dimming driver (350mA & 500mA single colour outputs only)	/ID

LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers (please see page 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available



Design: Match Lighting Project: Private Residence Product: LD62

LD61 & LD62

LED WALL AND INDICATOR LIGHT

350 mA 500 mA IP67



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

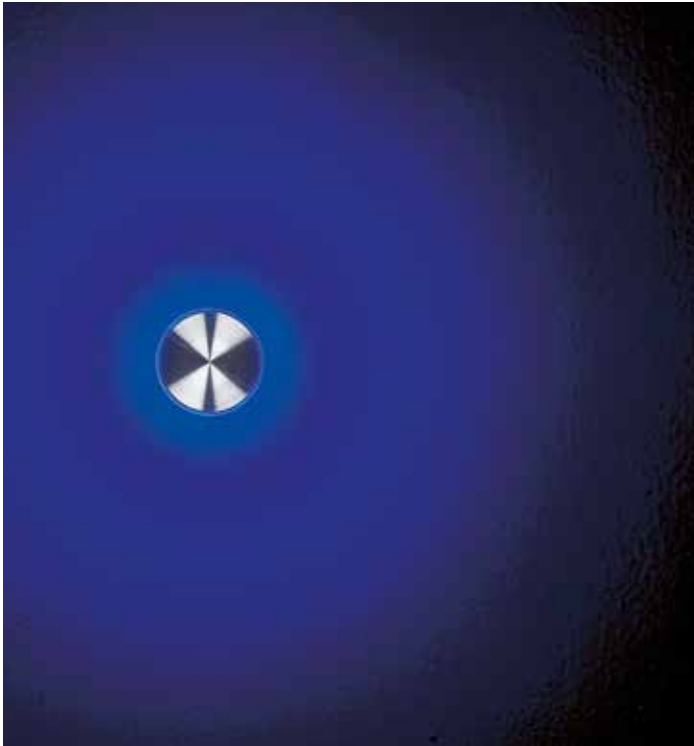
- > High quality machined components
- > No visible fixings
- > Minimal aesthetic
- > LD61 produces a soft 360° angle of illumination
- > LD62 adds a narrow 25° beam to the 360° angle of illumination, making it ideal for illuminating steps or pathways below
- > Integral anti-wicking barrier increases 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 XPG2	
Max drive current	500mA	
Max LED power*	1.7W	
Colour temperature	3000K	5000K
CRI (Typical)	93	75

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

LD61 - 360° illumination



LD62 - 360° + 25° illumination



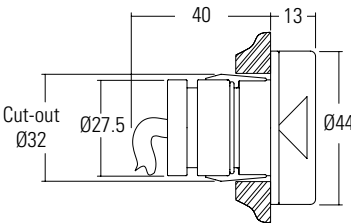


Design: Light IO Project: Private Residence Product: LD61

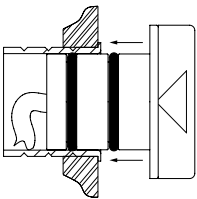
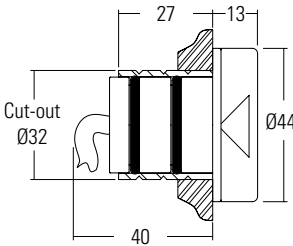
DIMENSIONS AND FIXING OPTIONS

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
LD61/62-350-500			
Example: LD61-500 / LW30 / Stainless Steel / 480			

PRODUCT CODES WITH OUTPUT OPTION	
1.2W LED at 350mA	LD61-350 LD62-350

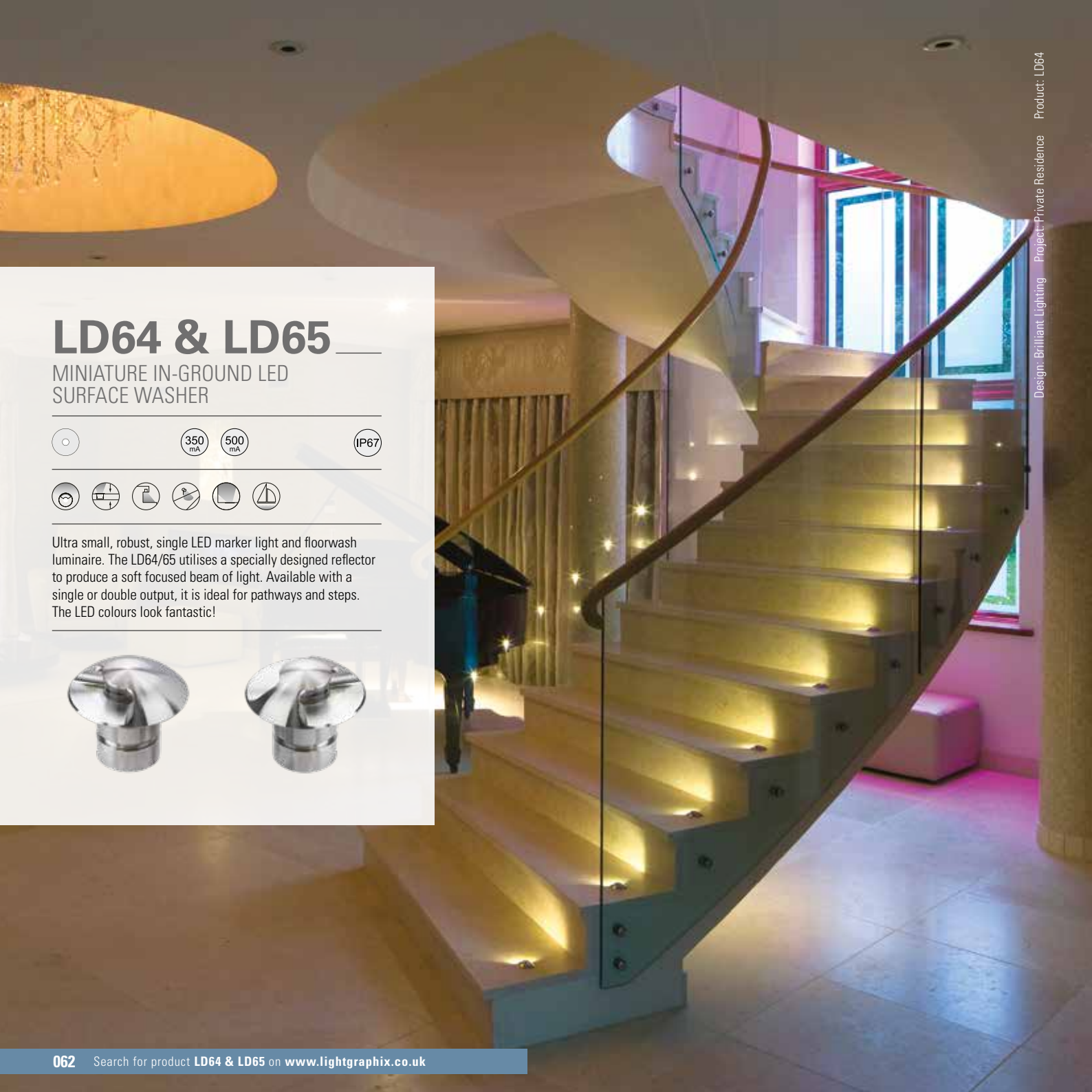
1.7W LED at 500mA	LD61-500 LD62-500
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LED COLOUR OPTIONS	SUFFIX
Super warm white (2200K)	/LW22
Extra warm white (2700K)	/LW27
Warm white (3000K)	/LW30
White (4000K) - on request	/LW40
Cool white (5000K)	/LW50
Blue	/LB
Green	/LG
Red	/LR
Amber	/LA
*Other LED colour temperatures are available. Please speak to a member of our sales team.	

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 232)	
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available	



Design: Brilliant Lighting Project: Private Residence Product: LD64

LD64 & LD65

MINIATURE IN-GROUND LED SURFACE WASHER

-
- 350 mA
- 500 mA
- IP67

-
-
-
-
-
-

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

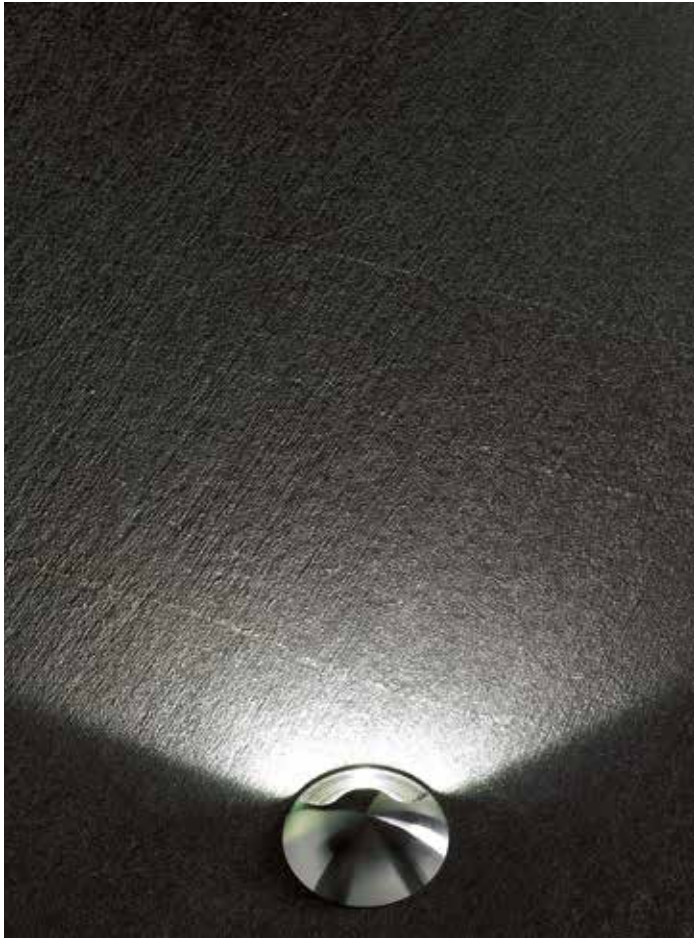
- > Manufactured from a single billet of 316 stainless steel
- > No visible fixings
- > Minimal aesthetic
- > LD64 produces a single 120° angle of illumination
- > LD65 produces 2 x 120° angles of illumination
- > Integral anti-wicking barrier increases protection against moisture ingress due to incorrect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

SPECIFICATION

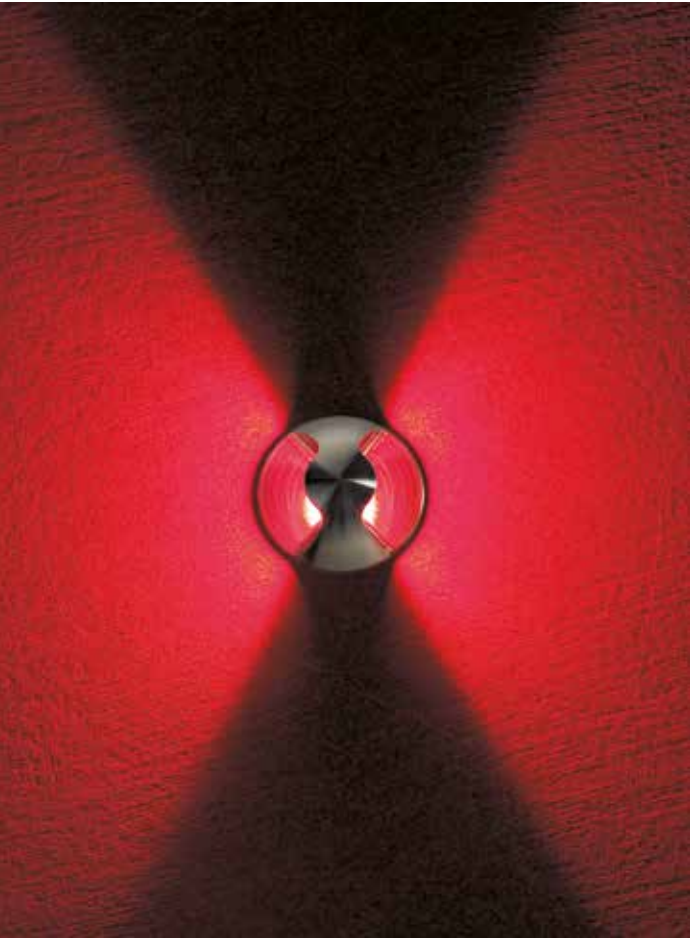
LED	1 x Cree XPG2	
Max drive current	500mA	
Max LED power*	1.7W	
Colour temperature	3000K	5000K
CRI (Typical)	93	75

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

LD64



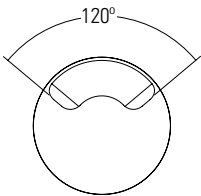
LD65



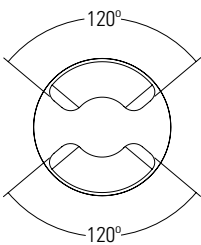


Design: BDP Lighting Design Project: Liverpool One Product: Custom LD64

LD64



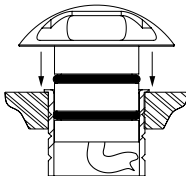
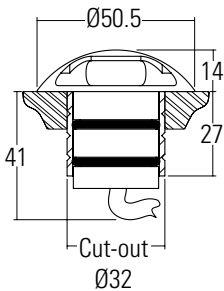
LD65



DIMENSIONS AND FIXING OPTIONS

Dimensions in mm

/480 - O-rings and sleeve



See page 230 for optional ground tube

ORDER CODES AND OPTIONS

Product Code	LED Colour	Finish	Fixing
LD64/65-350-500	<input type="text"/>	<input type="text"/>	<input type="text"/>
Example: LD64-500 / LW30 / Stainless Steel / 480			

PRODUCT CODES WITH OUTPUT OPTION

1.2W LED at 350mA	LD64-350 LD65-350
1.7W LED at 500mA	LD64-500 LD65-500

LED COLOUR OPTIONS

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

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

FINISH OPTIONS

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

FIXING OPTIONS

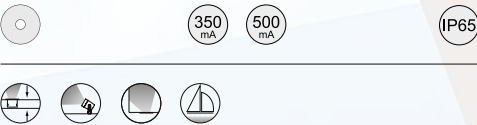
First fix sleeve and O-rings	/480
Ground tube (see page 230 for details)	/480GT

LED DRIVERS

Use with 350mA or 500mA constant current LED drivers (please see page 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available

LD63

LED MIRROR LIGHT



The LD63 mirror or decorative light fitting is the LED replacement for the 10148 halogen light. It uses the very latest in LED technology giving a high power LED output and good colour rendering with 93 CRI LED. This shallow, recessed fitting has no projected heat and its two diffused surfaces create an even glow, making it ideal for facial illumination. Rated IP65 as standard, the LD63 is designed for quick and simple installation and features spring clips for hidden fixing. The fitting is available with a choice of switch, 0-10V, DMX, Dali or mains dimmable drivers.



Design: Light 10 Project: Private Residence Product: LD63

KEY FEATURES

- > High power LED output
- > Shallow recessed fitting
- > Two diffused surfaces to create an even glow, perfect for facial lighting
- > Good colour rendering with 93 CRI LED
- > IP65 as standard
- > Hidden fixing with spring clips
- > Designed for simple, quick installation

SPECIFICATION

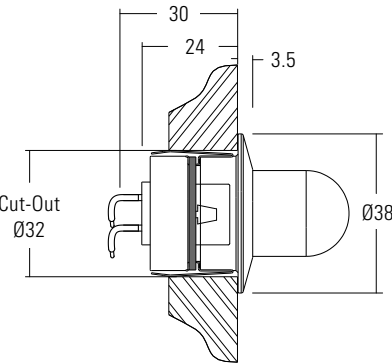
LED	1 x Cree XPG2	
Max drive current	500mA	
Max LED power*	1.7W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L ₁₀₀)	59	71

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

See our website for more detailed technical information and photometric files

DIMENSIONS

Cross Section View



PHOTOMETRICS

Photometric files are included in the design pack which can be downloaded from the LD63 product page on the website.



ORDER CODES AND OPTIONS

Product Code	LED Colour	Finish
LD63-350-500	<input type="text"/>	<input type="text"/>
Example: LD63-350 / LW30 / Chrome		

PRODUCT CODES WITH OUTPUT OPTION

1.2W LED at 350mA	LD63-350
1.7W LED at 500mA (recommended)	LD63-500

LED COLOUR OPTIONS

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

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

FINISH OPTIONS

Bezel - Chrome / paint finish silver/ white (RAL 9016) / RAL finish
(Custom bronze / brass wet spray paint colours available, please see our finishes guide on page 250)

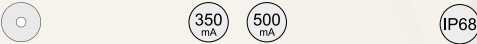
LED DRIVERS

Use with 350mA or 500mA constant current LED drivers (please see page 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available



LD42/W/A

LOW GLARE MINIATURE LED
RECESSED WALL LIGHT



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) 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 suitable for permanent submersion. Please use the LD242A, which has fixing options designed for underwater installations.

SPECIFICATION

LED	1 x Cree XPG2	
Max drive current	500mA	
Max LED power*	1.7W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L ₁₀₀)	120	146
Lumens per circuit watt	71	86

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

LD42

LD42W & LD42A



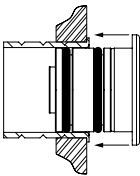
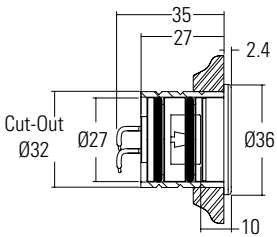


Design: Stan Baxter Lighting Design Project: Private residence Product: LD42W

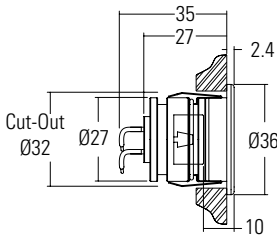
DIMENSION AND FIXING OPTIONS

Dimensions in mm

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



/SC - Spring clip fixing

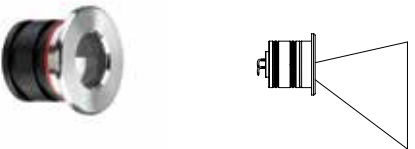


BODY OPTIONS

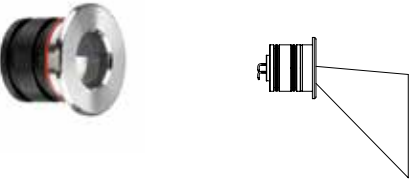
LD42
Circular aperture with lens and LED assembly recessed into the body by 10mm.



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° tilt film which angles the light down onto the surface to be lit.



ORDER CODES AND OPTIONS

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

PRODUCT CODES WITH OUTPUT OPTION	
1.2W LED at 350mA	LD42-350 LD42W-350 LD42A-350

1.7W LED at 500mA	LD42-500 LD42W-500 LD42A-500
-------------------	---

LED COLOUR OPTIONS	SUFFIX
Super warm white (2200K)	/LW22
Extra warm white (2700K)	/LW27
Warm white (3000K)	/LW30
White (4000K) - on request	/LW40
Cool white (5000K)	/LW50
Blue	/LB
Green	/LG
Red	/LR
Amber	/LA
*Other LED colour temperatures are available. Please speak to a member of our sales team.	

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

BEZEL FINISH OPTION	
Stainless steel 316	
Polished stainless steel (passivate for marine environments)	
Flamed solid bronze (antique finish)	
Paint finish white / black / RAL	
(Custom bronze / brass wet spray paint colours available, please see our finishes guide on page 250)	

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

LED DRIVERS	
Use with 350mA or 500mA constant current LED drivers (please see page 232)	
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available	

LD45 & LD46

LOW GLARE INTERIOR/EXTERIOR
WALL OR STEP LIGHTS



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



Design: Maurice Brill Lighting Design Project: Hilton, Manchester Product: LD48

KEY FEATURES

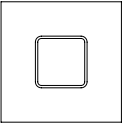
- > LED and lens assembly recessed within a black anodised body for reduced glare
- > High quality machined bezel and body
- > Square and round versions available
- > Glass fixed with hidden gasket, so no unsightly glue line
- > No visible fixings. Options include spring fixing clips or O-rings and a 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

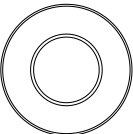
LED	1 x Cree XPG2	
Max drive current	700mA	
Max LED power*	2.4W	
Colour Temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L ₁₀₀)	167	206
Lumens per circuit watt	70	86

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

LD45



LD46



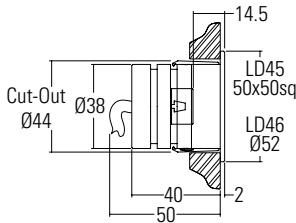


Design: Light IO Project: Private residence Product: LD48

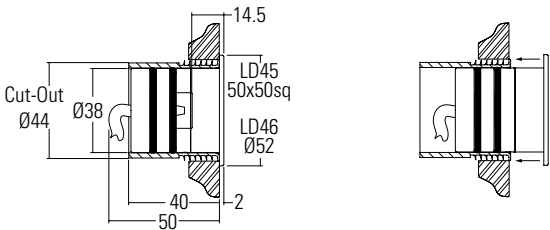
DIMENSION AND FIXING OPTIONS

Dimensions in mm

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



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



ORDER CODES AND OPTIONS

Product Code	LED Colour	Beam Angle	Finish	Fixing
LD45/46-350 -500 -700				
Example: LD45-700 / LW30 / MB / Stainless Steel / 476				

PRODUCT CODES WITH OUTPUT OPTION	
1.2W LED at 350mA	LD45-350 LD46-350

1.7W LED at 500mA	LD45-500 LD46-500
-------------------	------------------------------------

2.4W LED at 700mA	LD45-700 LD46-700
-------------------	------------------------------------

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

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

BEAM / LENS ANGLE 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	
(Custom bronze / brass wet spray paint colours available, please see our finishes guide on page 250)	

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

LED DRIVERS	
Use with 350mA, 500mA or 700mA constant current LED drivers (please see page 232)	
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available	

LD47 & LD48

LOW GLARE TILTED INTERIOR/
EXTERIOR WALL OR STEP LIGHTS



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



KEY FEATURES

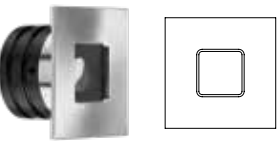
- > LED and lens assembly recessed and tilted by 20° within a black anodised body for reduced glare
- > High quality machined bezel and body
- > Square and round versions available
- > Glass fixed with hidden gasket, so no unsightly glue line
- > No visible fixings. Options include spring fixing clips 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

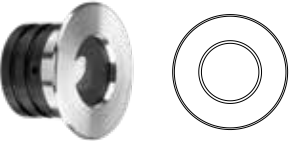
LED	1 x Cree XPG2	
Max drive current	700mA	
Max LED power*	2.4W	
Colour Temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L ₁₀₀)	167	206
Lumens per circuit watt	70	86

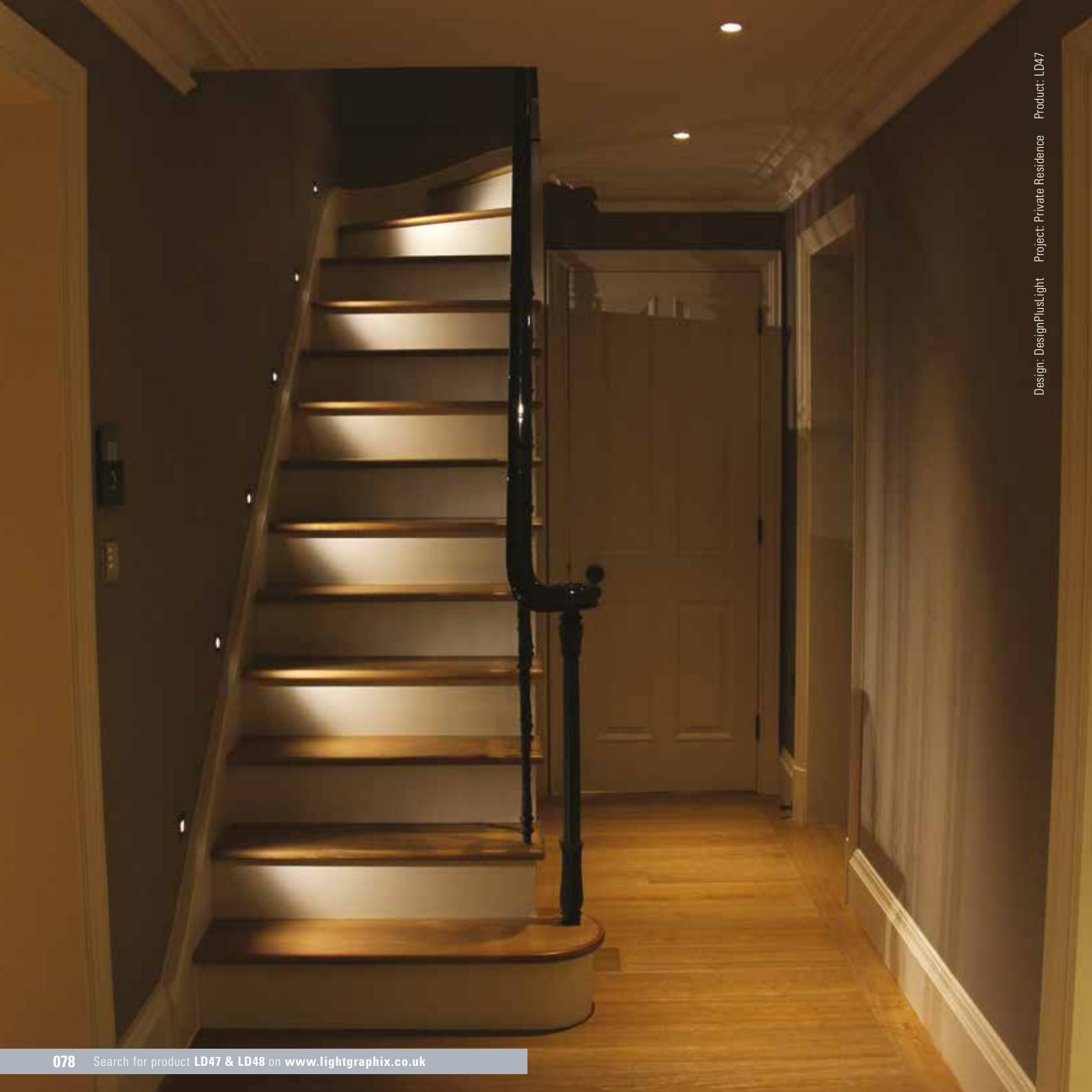
**LED wattage includes losses associated with using an 85% efficient driver
See website for more detailed technical information and photometric files*

LD47



LD48



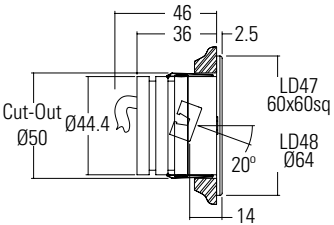


Design: DesignPlusLight Project: Private Residence Product: LD47

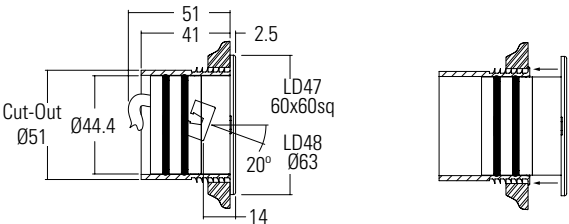
DIMENSION AND FIXING OPTIONS

Dimensions in mm

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



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



ORDER CODES AND OPTIONS

Product Code	LED Colour	Beam Angle	Finish	Fixing
LD47/48-350 -500 -700	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Example: LD47-700 / LW30 / MB / Stainless Steel / 477				

PRODUCT CODES WITH OUTPUT OPTION	
1.2W LED at 350mA	LD47-350 LD48-350
1.7W LED at 500mA	LD47-500 LD48-500
2.4W LED at 700mA	LD47-700 LD48-700

LED COLOUR OPTIONS	SUFFIX
Super warm white (2200K)	/LW22
Extra warm white (2700K)	/LW27
Warm white (3000K)	/LW30
White (4000K) - on request	/LW40
Cool white (5000K)	/LW50
Blue	/LB
Green	/LG
Red	/LR
Amber	/LA
*Other LED colour temperatures are available. Please speak to a member of our sales team.	

BEAM / LENS ANGLE 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	
(Custom bronze / brass wet spray paint colours available, please see our finishes guide on page 250)	






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

LED DRIVERS	
Use with 350mA, 500mA or 700mA constant current LED drivers (please see page 232)	
Switched, 0-10V, 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 steplighting without any glare from the lightsource. We recommend the LD57 be run at 700mA (LD57-700).



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

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
- > Not suitable for permanent submersion. Please use the LD242A, which has fixing options designed for underwater installations.

SPECIFICATION

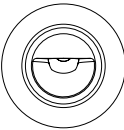
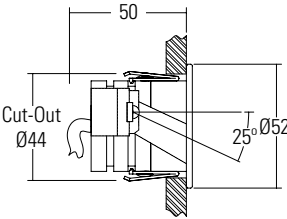
LED	1 x Cree XPG2	
Max drive current	700mA	
Max LED power*	2.4W	
Colour Temperature	3000K	5000K
CRI (typical)	93	75

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

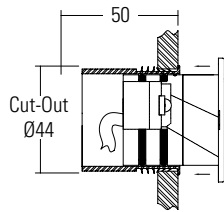
DIMENSION AND FIXING OPTIONS

Dimensions in mm

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



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



ORDER CODES AND OPTIONS

Product Code	LED Colour	Finish	Fixing
LD57-350 -500 -700	<input type="text"/>	<input type="text"/>	<input type="text"/>
Example: LD57-700 / LW30 / Stainless Steel / 476			

PRODUCT CODES WITH OUTPUT OPTION

1.2W LED at 350mA	LD57-350
1.7W LED at 500mA	LD57-500
2.4W LED at 700mA	LD57-700

LED COLOUR OPTIONS

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

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

BEZEL FINISH OPTION

Stainless steel 316
Polished stainless steel (passivate for marine environments)
Paint finish white / black / RAL
Flamed solid bronze (antique finish)
(Custom bronze / brass wet spray paint colours available, please see our finishes guide on page 250)

FIXING OPTION






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






LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers (please see page 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available

LD57SQ

LOW GLARE LED WALL LIGHT (NO LENS)





The LD57SQ is the square bezel version of the LD57. It has been specifically designed to produce minimal glare and is IP67 rated. This makes it perfect for use as a steplight or bulkwalk mounted yacht decklight. The LED is hidden from view by a black anodized shield behind half the glass and whilst the lack of a lens means output is lower, it is adequate for gentle deck and steplighting without any glare from the light source (LD57SQ-700 2.4W 700mA recommended).



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 (spring clips or O-rings and first fix sleeve)
- > Integral anti-wicking barrier
- > Range of bezel finish options
- > Available with Switch, 1-10V, DMX, Dali or Mains dimmable drivers
- > Not suitable for permanent submersion. Please use the LD242A, which has fixing options designed for underwater installations.

SPECIFICATION

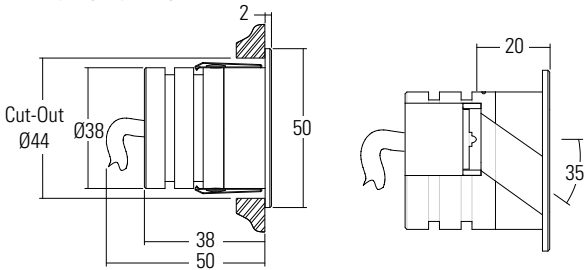
LED	1 x Cree XPG2	
Max drive current	700mA	
Max LED power*	2.4W	
Colour Temperature	3000K	5000K
CRI (typical)	93	75

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

DIMENSION AND FIXING OPTIONS

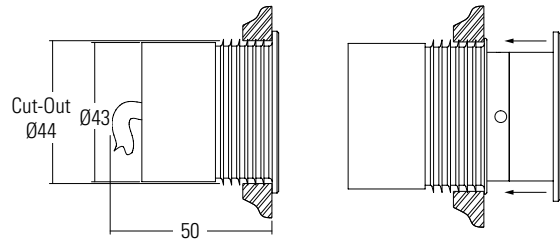
Dimensions in mm

/SC - Spring clip fixing



/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
LD57SQ-350 -500 -700	<input type="text"/>	<input type="text"/>	<input type="text"/>
Example: LD57SQ-700 / LW30 / Stainless Steel / 476			

PRODUCT CODES WITH OUTPUT OPTION

1.2W LED at 350mA	LD57SQ-350
1.7W LED at 500mA	LD57SQ-500
2.4W LED at 700mA	LD57SQ-700

LED COLOUR OPTIONS

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

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

BEZEL FINISH OPTION

Stainless steel 316
Polished stainless steel (passivate for marine environments)
Paint finish white / black / RAL
(Custom bronze / brass wet spray paint colours available, please see our finishes guide on page 250)

FIXING OPTION

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

LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers (please see page 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available

LD242A

UNDERWATER LED POOL LIGHT



The LD242A has been designed specifically for permanent submersion applications. It is manufactured from high grade 316 stainless steel and anodised aluminium. The LED module is potted to prevent moisture ingress via the cable and the fitting is mechanically sealed. The bezel is polished and 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
 - Excellent diffused beam shape from a range of optics
 - New optional glare shield accessory
 - Typical 93 CRI in 3000K warm white
 - Reverse polarity protection
 - First fix sleeve and O-rings to seal fitting into mounting surface
 - Concrete-in first fix box
 - Bezel is polished and passivated for pool and sea environments
 - LD242A RGB also available
 - Please specify with long cables to enable connections to be made in a dry location

SPECIFICATION

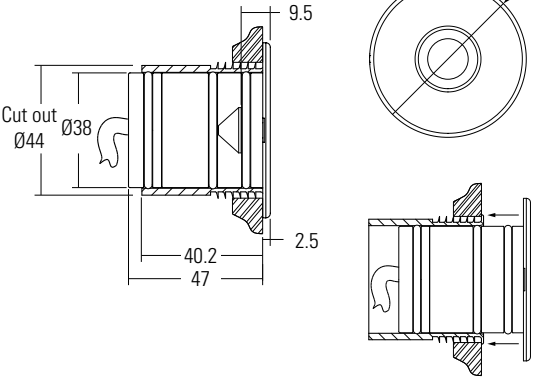
LED type	1 x Cree XPG2	
Max drive current	700mA	
Max LED power*	2.4W	
Colour temperature	3000K	5000K
CRI (min)	93	75
Delivered lumens (L ₁₀₀)	164	200
Lumens per circuit watt	68	83

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



DIMENSIONS AND FIXING OPTIONS

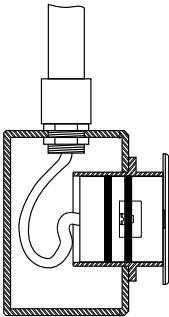
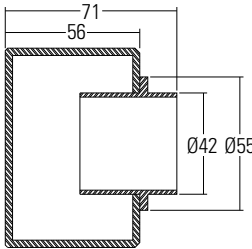
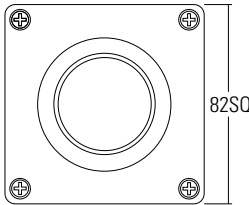
/476 - Fixing sleeve and O-rings



/242N - Concrete Housing



IP rated conduit bonded to box. It is recommended to specify LD242A with a long cable to enable connections to be done in a dry location. No connection should be made within the concrete housing.



ORDER CODES AND OPTIONS

Product Code	LED Colour	Beam Angle	Accessory	Finish	Fixing
LD242A-350-500-700					
Example: LD242A-700 / LW30 / MB / GS / Stainless Steel / 476					

PRODUCT CODES WITH OUTPUT OPTION

1.2W LED at 350mA	LD242A-350
1.7W LED at 500mA	LD242A-500
2.4W LED at 700mA	LD242A-700

LED COLOUR OPTIONS

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

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

BEAM / LENS ANGLE OPTION

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

GLARE SHIELD

Half-moon glare shield	/GS
------------------------	-----

BEZEL FINISH OPTIONS

Polished and passivated stainless steel (for marine environments)

FIXING ACCESSORIES

First fix sleeve with O-rings	/476
Concrete housing	/242N

LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers (please see page 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available

ACCESSORIES

/GS - Glare shield

For reduced glare applications, a glare shield can be specified. Covering 45% of the lit surface of the optic behind it, whilst maintaining enough coverage as not to be too disruptive to the beam output. Please note that this option is not available for the oval beam lens.



LD242A RGB

UNDERWATER LED POOL LIGHT





The LD242A RGB has been designed specifically for permanent submersion applications. It is manufactured from high grade 316 stainless steel and anodised aluminium. The LED module is potted to prevent moisture ingress via the cable and the fitting is mechanically sealed. The bezel is polished and passivated for extra protection against chlorine or salt water.

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.



KEY FEATURES

- Integral anti-wicking barrier increases protection against moisture ingress due to incorrect IP rated cable connections
- Single LED optic allows colours to mix at the source, with smoother RGB changing and no multiple shadows
- First fix sleeve and O-rings to seal fitting into mounting surface
- Concrete-in first fix box
- Bezel is polished and passivated for pool and sea environments
- LD242A (single colour) also available
- Please specify with long cables to enable connections to be made in a dry location
- This can only be used underwater due to thermal management. Please see our LD56 RGB for other applications

SPECIFICATION

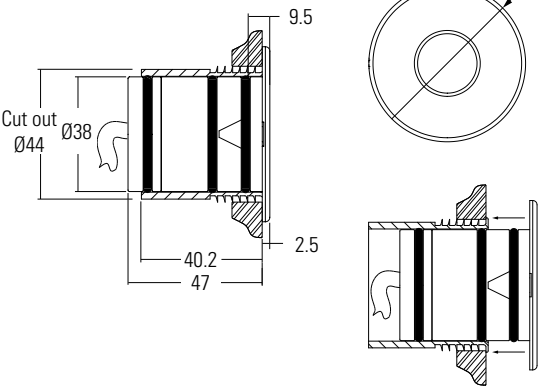
LED type	1 x Cree XML RGB
Current	350mA
Max LED power*	3.6W

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



DIMENSIONS AND FIXING OPTIONS

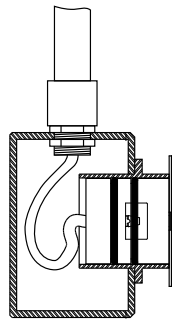
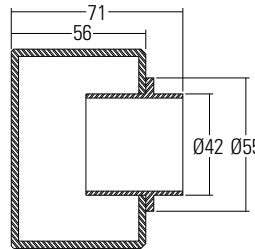
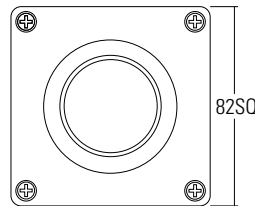
/476 - Fixing sleeve and O-rings



/242N - Concrete Housing



IP rated conduit bonded to box. It is recommended to specify LD242A with a long cable to enable connections to be done in a dry location. No connection should be made within the concrete housing.



ORDER CODES AND OPTIONS

Product Code	LED Colour	Beam Angle	Finish	Fixing
LD242A-RGB-350				
Example: LD242A-RGB-350 / MB / Stainless Steel / 476				

PRODUCT CODES WITH OUTPUT OPTION _____
3.6W (3 x 1.2W LEDs) at 350mA **LD242A-RGB-350**

BEAM / LENS ANGLE OPTION _____
12° narrow spot /NB
30° medium (best RGB colour mixing performance) /MB

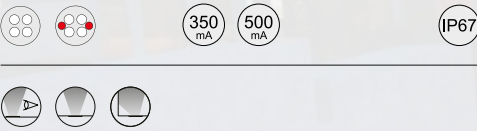
BEZEL FINISH OPTIONS _____
Polished and passivated stainless steel (for marine environments)

FIXING ACCESSORIES _____
First fix sleeve with O-rings /476
Concrete housing /242N

LED DRIVERS _____
Use with 350mA constant current LED drivers (please see page 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available

LD170

HIGH POWER LED INTERIOR/EXTERIOR WALL LIGHT



The new LD170 features the new E1 LED engine and a newly revised optic. This recessed wall light features an oval beam optic and angled kick lens, which focuses the light down on to the lit surface. The result is glare-free, broad and even illumination to steps and pathways. A very tough, high quality fitting, suitable for a wide range of applications.



KEY FEATURES

- > High Power E1 engine, featuring the CREE XHP35 LED with 2-step binning
- > Integral glare baffle which minimises the light above the horizontal
- > Single optic produces a very consistent beam with no multiple shadows
- > Angled kick lens focuses the light down on to the lit surface
- > LED and lens recessed in a matt black anodised body for reduced glare
- > No visible fixings
- > Range of bezel finish options
- > Built-in reverse polarity protection

SPECIFICATION

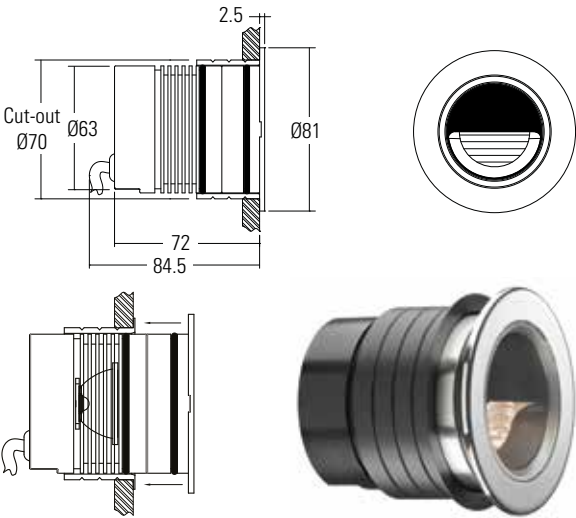
LED type	1 x E1 LED Engine Cree XHP35	
Max drive current	500mA	
Max LED power*	7W	
Colour temperature	3000K	5000K
CRI (typical)	85	80
Delivered lumens (L ₁₀₀)	210	225

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

FIXING AND DIMENSIONS

Dimensions in mm

The fitting is supplied as standard with a fixing sleeve, which 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
LD170-E1-350-500	<input type="text"/>	<input type="text"/>
Example: LD170-E1-500 / LW30 / Stainless Steel		

PRODUCT CODES WITH OUTPUT OPTIONS

5W LED at 350mA	LD170-E1-350
7W LED at 500mA	LD170-E1-500

LED COLOUR OPTIONS

Extra Warm White (2700K)	SUFFIX /LW27
Warm White (3000K)	/LW30
White (4000K) - on request	/LW40
Cool White (5000K)	/LW50
With 2nd channel (red for navigation or amber night lighting) LD170-E1-2CH	/LW**+L*

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

BEZEL FINISH OPTION

Stainless steel 316
Paint finish white / black / RAL (not suitable for high traffic areas)
Polished and passivated stainless steel (for marine environments)
Flamed solid bronze (antique finish)
(Custom bronze / brass wet spray paint colours available, please see our finishes guide on page 250)

FIXING ACCESSORIES

Comes standard with /484S first fix sleeve

LED DRIVERS

Use with 350mA or 500mA constant current LED drivers (please see page 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available



LD59

SQUARE RECESSED LOW GLARE INTERIOR/EXTERIOR WALL LIGHT



LD59 replaces the LD10234, offering the same low glare, broad illumination and is rated IP67 for both internal and external projects. The square recessed wall light uses a single LED for a soft edge beam with no multiple shadows. It comes as standard with a polished 1.5mm stainless steel bezel with no visible fixings, creating an attractive fitting for internal or external use. The specular reflector gives a diffused wash of light onto a path or floor with minimal glare.

Please note:
For a higher powered version, please see our LD175 which offers close to 4 x the brightness from the same size package.



Product: LD59

KEY FEATURES

- > Very broad diffused beam shape
- > IP67 as standard
- > Low glare with the LED and diffuser assembly recessed deep within the fitting
- > Typical 93 CRI in 3000K warm white
- > Polished 316 stainless steel bezel as standard, with an optional brushed or yacht grade mirror finish available
- > RAL colour paint finishes available
- > No visible fixings.

SPECIFICATION

LED	1 x Cree XPG2	
Max drive current	700mA	
Max LED power*	2.4W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L ₁₀₀)	135	146
Lumens per circuit watt	56	61

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

See our website for more detailed technical information and photometric files

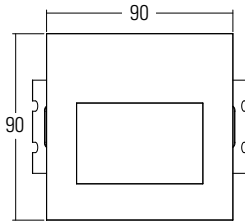
DIMENSIONS & FIXING OPTIONS

Dimensions in mm

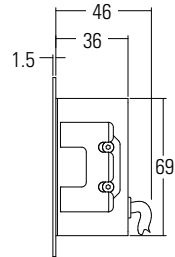
/SC - Spring clips

Spring clips are supplied as standard when the concrete-in box is not specified. This fixing option is suitable for the majority of installations.

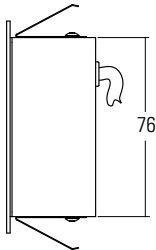
Front view



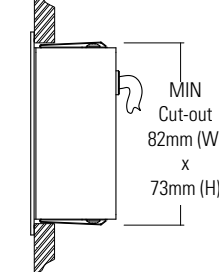
Side view



Top view



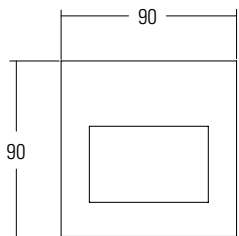
Side view



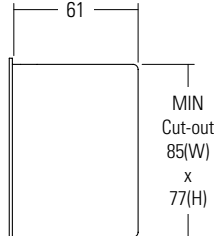
/CB - Concrete-in back box

First fix concrete-in box offers the ability to create the correct void in a concrete wall necessary to fit the LD59. There is space behind the product to make connections (internal use only). Please note spring clips are not supplied when the concrete-in box is specified. The fitting is held in place with a silicone gasket provided within the box.

Front view



Top view



ORDER CODES AND OPTIONS

Product Code	LED Colour	Finish	Fixing
LD59-350 -500 -700			
Example: LD59-700 / LW30 / Stainless steel / SC			

PRODUCT CODES WITH OUTPUT OPTIONS

1.2W LED at 350mA	LD59-350
1.7W LED at 500mA	LD59-500
2.4W LED at 700mA	LD59-700

LED COLOUR OPTIONS

Super warm white (2200K)	/LW22
Extra Warm White (2700K)	/LW27
Warm White (3000K)	/LW30
White (4000K) - on request	/LW40
Cool White (5000K)	/LW50

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

BEZEL

Polished stainless steel 316
Polished and passivated stainless steel 316 (marine grade polish)
Brushed and passivated stainless steel 316
Paint finish white / black / RAL
(Custom bronze / brass wet spray paint colours available, please see our finishes guide on page 250)

FIXING OPTIONS

Spring clips	/SC
Concrete-in back box	/CB

LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers (please see page 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available

/SC

Spring clips



/CB

Concrete box



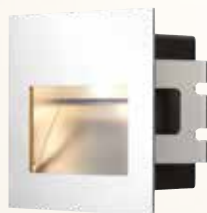
LD175

HIGH POWER SQUARE RECESSED
LOW GLARE INTERIOR/EXTERIOR
FLOOR WASHER



The LD175 features the new E1 LED engine; brighter and more efficient than the previous generation LED. LD175 is designed for lighting installations where a very high output is required over what the LD59 is capable of producing. LD175 builds upon the LD59, with its remarkable uniform floor washing capabilities, together with its broad diffused beam shape and 410 lumen output, it is ideal for larger external projects.

LD175 features a high quality machined anodised body and is IP67 rated making it suitable for both internal and external lighting installations. This shallow recess depth wall light has the LED and diffuser assembly recessed deep within the fitting ensuring low glare.



Product LD175

KEY FEATURES

- > New LED light engines offer single white, RGBW, Tunable white and Colour LED options
- > Impressive uniform floor washing capabilities
- > Very broad diffused beam shape
- > High output, ideal for lighting wider pathways
- > Reduced glare with the LED and diffuser assembly recessed deep within the fitting
- > IP67 as standard
- > Polished 316 stainless steel bezel as standard, with other finishes available
- > No visible fixing.
- > Built-in reverse polarity protection
- > Optional first fix concrete-in back box
- > LD175 is also available with RGBW and Tunable White LED engines

SPECIFICATION

LED type	1 x E1 LED Engine Cree XHP35	
Max drive current	500mA	
Max LED power	7W	
Colour temperature	3000K	5000K
CRI (typical)	85	80
Delivered lumens (L ₁₀₀)	410	441
Lumens per circuit watt	59	63

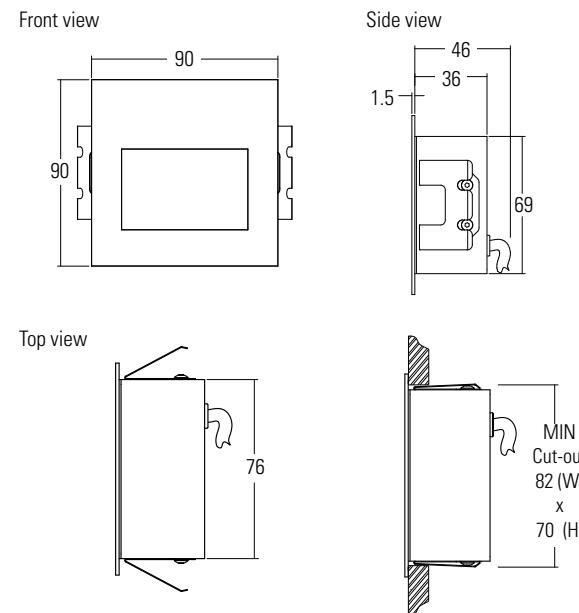
**LED wattage includes losses associated with using an 85% efficient driver*

See our website for more detailed technical information and photometric files

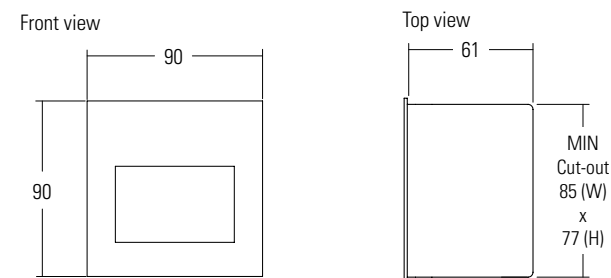
DIMENSIONS & FIXING OPTIONS

Dimensions in mm

/SC Spring Clips
Spring clips are supplied as standard when the concrete-in box is not specified. This fixing option is suitable for the majority of installations.



/CB - Concrete-in back box
First fix concrete-in box offers the ability to create the correct void in a concrete wall necessary to fit the LD175. There is space behind the product to make connections (internal use only). Please note spring clips are not supplied when the concrete-in box is specified. The fitting is held in place with a silicone gasket provided within the box.



ORDER CODES AND OPTIONS FOR E1 LIGHT ENGINE

(for Colour, RGBW and Tunable white, please see data sheets online)

Product Code	LED Colour	Finish	Fixing
LD175-E1-350-500			
Example: LD175-E1-500 / LW30 / Stainless steel / SC			

PRODUCT CODES WITH OUTPUT OPTION

5W LED at 350mA	LD175-E1-350
7W LED at 500mA	LD175-E1-500

LED COLOUR OPTIONS	SUFFIX
Extra Warm White (2700K)	/LW27
Warm White (3000K)	/LW30
White (4000K) - on request	/LW40
Cool White (5000K)	/LW50
*Other LED colour temperatures are available. Please speak to a member of our sales team.	

FINISH OPTIONS

Polished stainless steel 316
Polished and passivated stainless steel 316 (marine grade polish)
Polished and passivated stainless steel 316
Paint finish white / black / RAL
(Custom bronze / brass wet spray paint colours available, please see our finishes guide on page 250)

FIXING OPTIONS

Spring clips	/SC
Concrete-in back box	/CB

LED DRIVERS

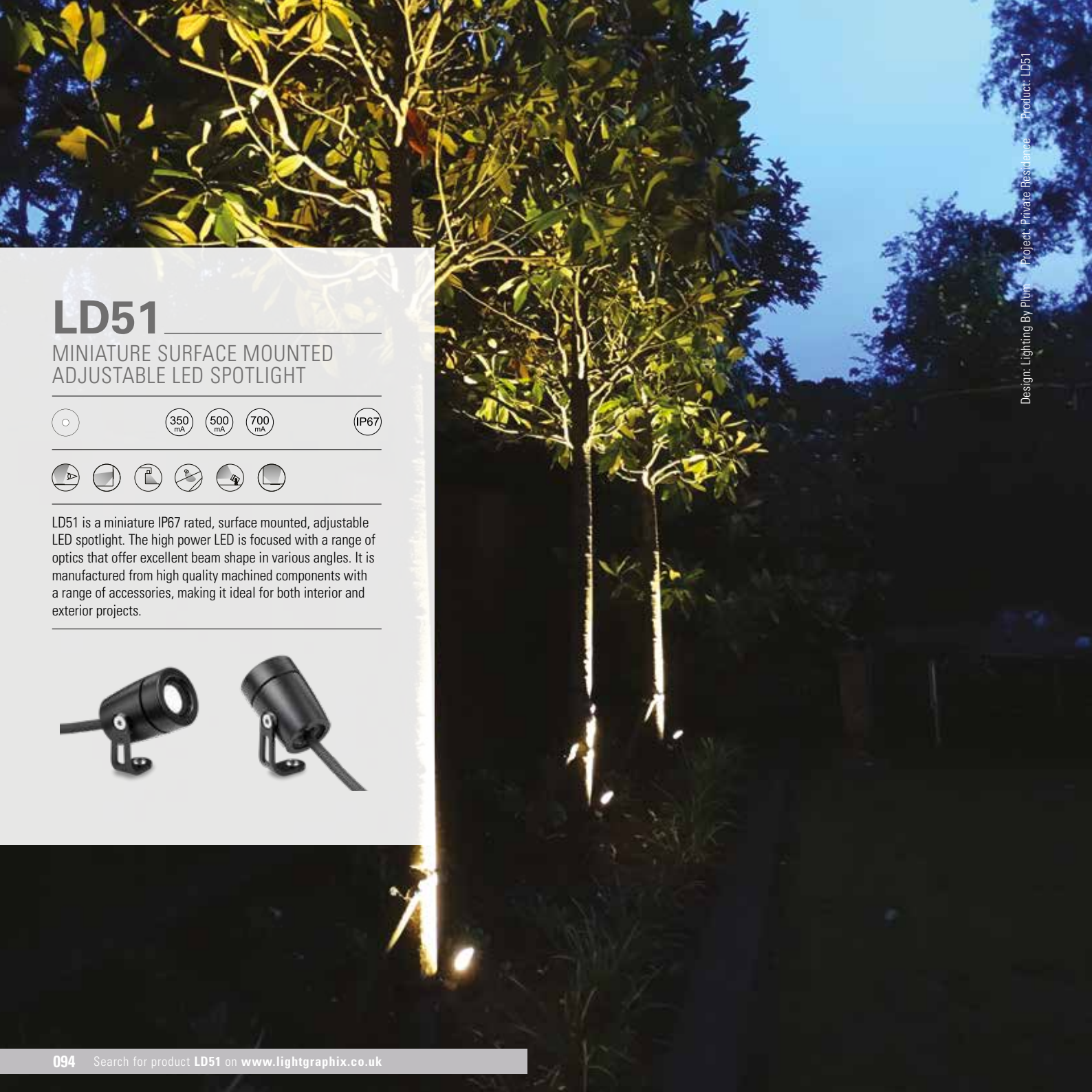
Use with 350mA or 500mA constant current LED drivers (please see page 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available

/SC
Spring clips



/CB
Concrete box





Design: Lighting By Plum Project: Private Residence Product: LD51

LD51

MINIATURE SURFACE MOUNTED
ADJUSTABLE LED SPOTLIGHT

350
mA

500
mA

700
mA

IP67

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

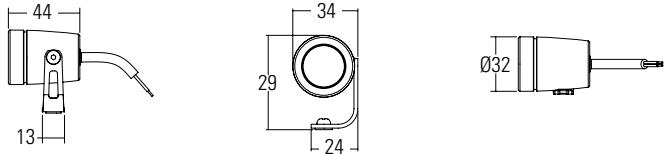


KEY FEATURES

- > 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

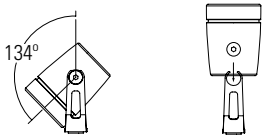
DIMENSIONS

Dimensions in mm



PIVOT BRACKET

The pivot bracket is lockable with the supplied allen key.



SPECIFICATION

LED	1 x Cree XPG2	
Max drive current	700mA	
Max LED power*	2.4W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L ₁₀₀)	174	211
Lumens per circuit watt	73	88

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



Product: LD51

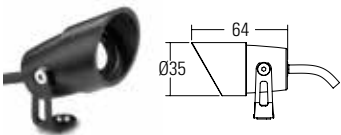


Design: Richard Huxley Lighting Project: Drapers Hall Product: LD51, LD56

ACCESSORIES

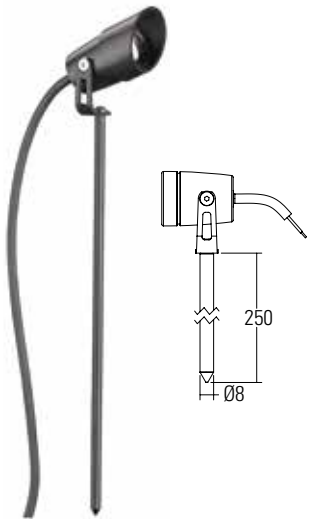
/CO - Anti-glare Cowl

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.



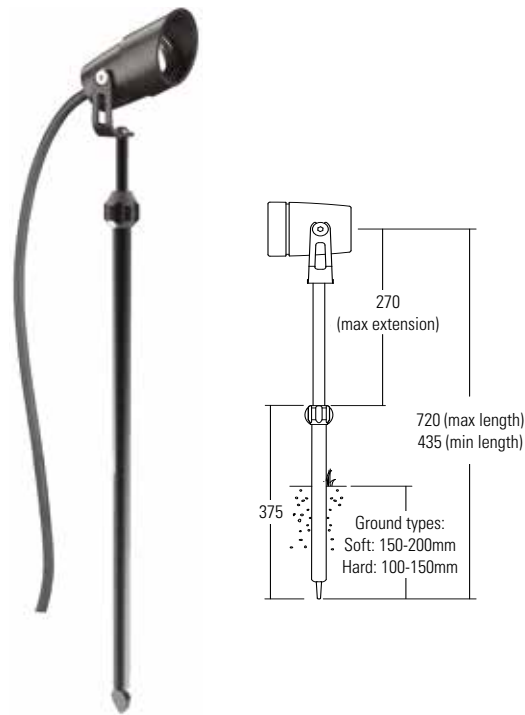
/SMB - Surface Mount Base



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



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



ORDER CODES AND OPTIONS

Product Code	LED Colour	Beam Angle	Accessory	Finish
LD51-350 -500 -700	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Example: LD51-700 / LW30 / MB / CO / GS / Painted White				

PRODUCT CODES WITH OUTPUT OPTION	
1.2W LED at 350mA	LD51-350
1.7W LED at 500mA	LD51-500
2.4W LED at 700mA	LD51-700

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

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

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

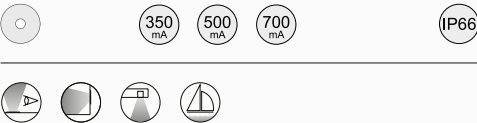
ACCESSORIES	
Cowl	/CO
Ground spike (250mm as standard)	/GS
Surface mount base	/SMB
Tree strap	/TS
Adjustable ground spike	/GSA

FINISH OPTION	
Black anodised	
Silver / white (RAL 9016) / RAL paint finish	
(Custom bronze / brass wet spray paint colours available, please see our finishes guide on page 250)	

LED DRIVERS	
Use with 350mA, 500mA or 700mA constant current LED drivers (please see page 232)	
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available	

LD95

MINIATURE FLOOR OR CEILING MOUNTED SPOTLIGHT



LD95 is a miniature floor or ceiling mounted spotlight. It has been designed for applications where a recessed fitting cannot be installed, and a discreet, non obtrusive solution is required. It features a deep recessed LED and optional glare shield, removing the need for a large cowl. Using the latest in LED technology, with a typical 93 CRI in 3000K warm white, the LD95 offers an excellent diffused beam shape from a range of optics.



Product: LD95

KEY FEATURES

- > Miniature design with high output LED
- > Excellent diffused beam shape from a range of optics
- > Optional glare shield accessory
- > Typical 93 CRI in 3000K warm white
- > Integral anti-wicking barrier provides increased protection against moisture
- > Range of finishes available
- > Machined from a solid billet of aluminium
- > Reverse polarity protection
- > Available with Switch, 0-10V, DMX, Dali or Mains dimmable drivers

SPECIFICATION

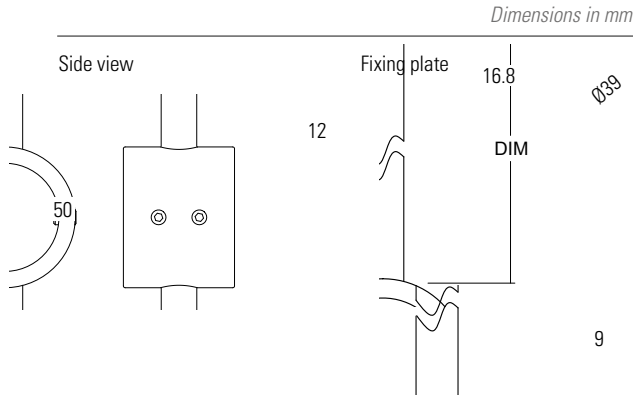
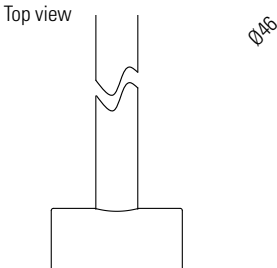
LED	1 x Cree XPG2	
Max drive current	700mA	
Max LED power*	2.4W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L ₁₀₀)	164	200
Lumens per circuit watt	68	83

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

See our website for more detailed technical information and photometric files

DIMENSIONS

Dimensions in mm



ACCESSORIES

/GS - Glare shield

An optional glare shield is available for the LD95 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 or floor.



FINISH OPTIONS

A range of paint finishes are available which are suitable for exterior applications. Please refer to our finishes guide for more information.



ORDER CODES AND OPTIONS

Product Code	LED Colour	Beam Angle	Accessory	Finish
LD95-350 -500 -700	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Example: LD95-700 / LW30 / MB / GS / White				

PRODUCT CODES WITH OUTPUT OPTIONS

1.2W LED at 350mA	LD95-350
1.7W LED at 500mA	LD95-500
2.4W LED at 700mA	LD95-700

LED COLOUR OPTIONS

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

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

BEAM / LENS ANGLE OPTIONS

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

ACCESSORY

Glare shield	/GS
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FINISH OPTIONS

Body - Paint finish white (RAL 9016) / black / RAL
(Custom bronze / brass wet spray paint colours available, please see our finishes guide on page 250)

LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers (please see page 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available

LD96

MINIATURE WALL MOUNTED DOUBLE LED UP AND DOWN WALL WASHER



350

mA

500

mA

700

mA

IP66



The LD96 is a miniature version of the LD10236 up and down wall washer. Its minimal design allows it to blend seamlessly into most project styles, and will fit into the smallest of features. A choice of beam angles and LED colours offers the designer a range of uses, as well as providing the opportunity to use differing optics on opposite sides of the product. The small but very robust body is machined from a solid billet of aluminium, and incorporates an integral anti-wicking barrier for added protection.



Product: LD96

KEY FEATURES

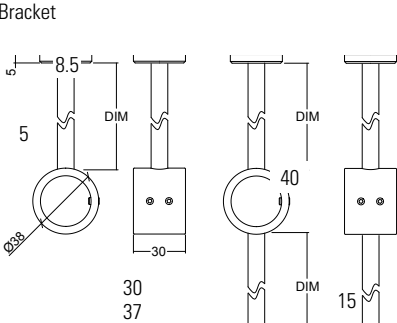
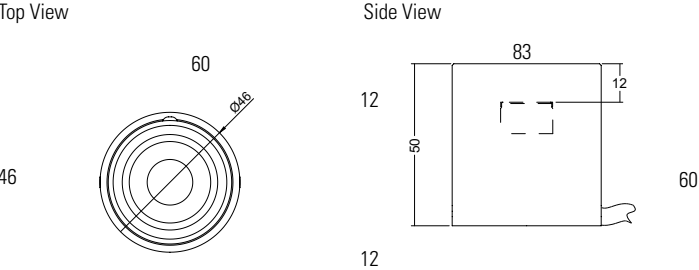
- > Excellent diffused beam shape from a range of optics
- > High output from a very small fitting
- > Reverse polarity protection
- > Optional glare shield accessory
- > Optimal spacing from mounting surface
- > Typical 93 CRI in 3000K warm white
- > Integral anti-wicking barrier provides increased protection against moisture
- > Range of finishes available
- > Variable output options
- > Machined from a solid billet of aluminium

SPECIFICATION

LED	2 x Cree XPG2 <i>Please note, data below is for 2 LEDs</i>	
Max drive current	700mA	
Max LED power*	4.8W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L ₁₀₀)	328	400
Lumens per circuit watt	68	83

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

DIMENSIONS



CONNECTIONS

The LD96 has been designed with enough room inside for a connection to be made to a first fix cable, and the remote drivers. It is supplied with two 3M Scotchlok™ connectors, which are IP rated for exterior waterproof applications.





ACCESSORIES

/GS - Glare shield
An optional glare shield is available for the LD96 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 or floor.



ORDER CODES AND OPTIONS

Product Code	LED Colour	Beam Angle	Accessory	Finish
LD96-350 -500 -700	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Example: LD96-700 / LW30 / MB / GS / White				

PRODUCT CODES WITH OUTPUT OPTIONS	
2.4W LED at 350mA	LD96-350
3.4W LED at 500mA	LD96-500
4.8W LED at 700mA	LD96-700

LED COLOUR OPTIONS	SUFFIX
Super warm white (2200K)	/LW22
Extra warm white (2700K)	/LW27
Warm white (3000K)	/LW30
White (4000K) - on request	/LW40
Cool white (5000K)	/LW50
Blue	/LB
Green	/LG
Red	/LR
Amber	/LA
*Other LED colour temperatures are available. Please speak to a member of our sales team.	

BEAM / LENS ANGLE OPTIONS	
12° narrow spot	/NB
31° medium	/MB
48° wide	/WB
36° x 12° oval	/OB
Different beam angle at each end	/**/**

ACCESSORY	
Glare shield	/GS

FINISH OPTIONS	
Body - Paint finish white (RAL 9016) / black / RAL	
(Custom bronze / brass wet spray paint colours available, please see our finishes guide on page 250)	

LED DRIVERS	
Use with 350mA, 500mA or 700mA constant current LED drivers (please see page 232)	
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available	

LD97

MINIATURE WALL MOUNTED SINGLE
LED UP OR DOWN WALL WASHER

350

mA

500

mA

700

mA

IP66



The LD97 is a miniature surface mounted LED wall light. Minimal design allows it to blend seamlessly into most project styles, and fit into the smallest of details. A choice of beam angles and LED colours offers the designer a range of uses, which include window reveal lighting, wall washing and path illumination. LD97 has been designed to withstand the harshest of conditions. The small but very robust body is machined from a solid billet of aluminium, and incorporates an integral anti-wicking barrier for added protection.



Product: LD97

KEY FEATURES

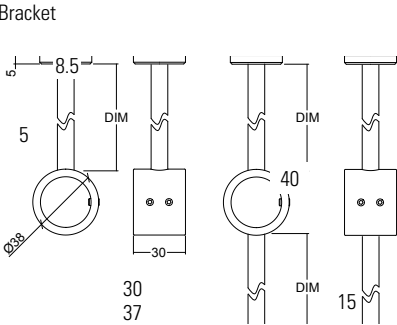
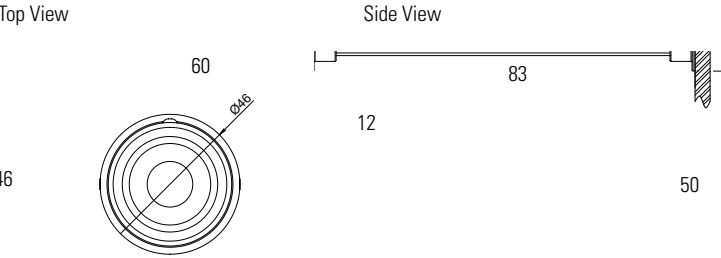
- > Ideal product to light window reveals, wall wash, and create interesting light patterns
- > Reverse polarity protection
- > Excellent diffused beam shape from a range of optics
- > Optional glare shield accessory
- > Optimal spacing from mounting surface
- > Typical 93 CRI in 3000K warm white
- > Integral anti-wicking barrier provides increased protection against moisture
- > Large range of paint finishes available
- > Machined from a solid billet of aluminium

SPECIFICATION

LED	1 x Cree XPG2	
Max drive current	700mA	
Max LED power*	2.4W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L ₁₀₀)	164	200
Lumens per circuit watt	68	83

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

DIMENSIONS



CONNECTIONS

The LD97 has been designed with enough room inside for a connection to be made to a first fix cable, and the remote drivers. It is supplied with two 3M Scotchlok™ connectors, which are IP rated for exterior waterproof applications.





ACCESSORIES

/GS - Glare shield
An optional glare shield is available for the LD97 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 or floor.



ORDER CODES AND OPTIONS

Product Code	LED Colour	Beam Angle	Accessory	Finish
LD97-350 -500 -700	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Example: LD97-700 / LW30 / MB / GS / White				

PRODUCT CODES WITH OUTPUT OPTIONS	
1.2W LED at 350mA	LD97-350
1.7W LED at 500mA	LD97-500
2.4W LED at 700mA	LD97-700

LED COLOUR OPTIONS	SUFFIX
Super warm white (2200K)	/LW22
Extra Warm White (2700K)	/LW27
Warm White (3000K)	/LW30
White (4000K) - on request	/LW40
Cool White (5000K)	/LW50
*Other LED colour temperatures are available. Please speak to a member of our sales team.	

BEAM / LENS ANGLE OPTIONS	
12° narrow spot	/NB
31° medium	/MB
48° wide	/WB
36° x 12° oval	/OB
Different beam angle at each end	/**/**


ACCESSORY	
Glare shield	/GS

FINISH OPTIONS
Body - Paint finish white (RAL 9016) / black / RAL
(Custom bronze / brass wet spray paint colours available, please see our finishes guide on page 250)

LED DRIVERS
Use with 350mA, 500mA or 700mA constant current LED drivers (please see page 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available

LD81

HIGH POWER MINIATURE LED SPOTLIGHT WITH MOUNTING SYSTEMS



350

mA

500

mA

700

mA

IP40

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 project's 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 Project: German Gymnasium Product: LD81

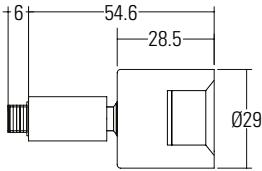
KEY FEATURES

- > 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 XPG2	
Max drive current	700mA	
Max LED power*	2.4W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L ₁₀₀)	195	237
Lumens per circuit watt	81	99

**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



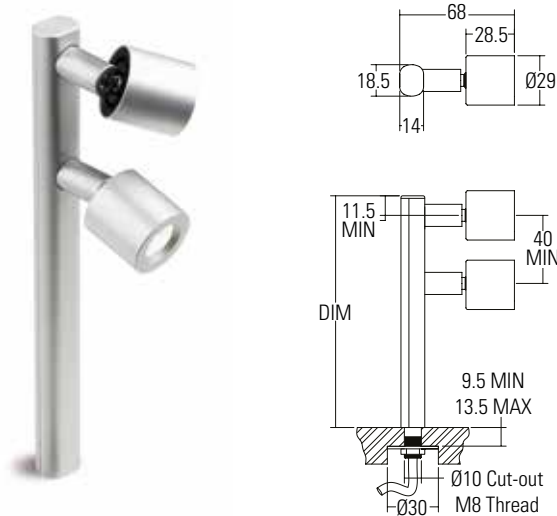
Project: Harrods, London Product: LD81

MOUNTING OPTIONS AND DIMENSIONS

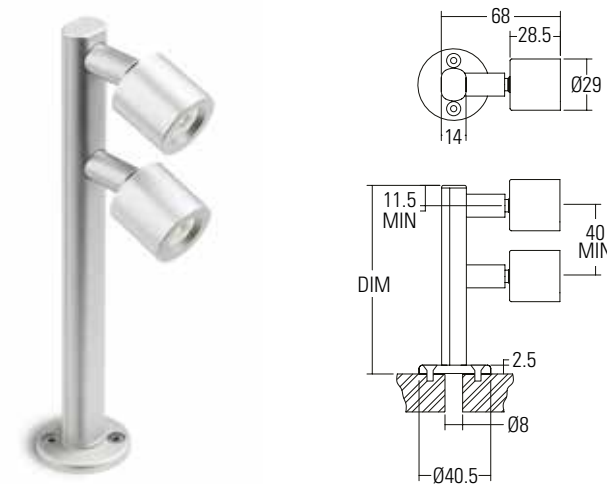
Dimensions in mm

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. Four mounting methods are available and each is custom made to the specification.

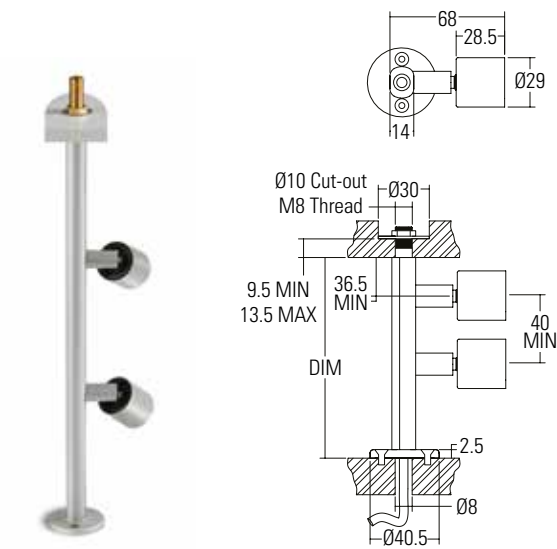
/M1- Method 1 - for fixing to the base of a cabinet, with cables exiting from the M8 all-thread stud. Specify stem length, number of spotlights and spacing.



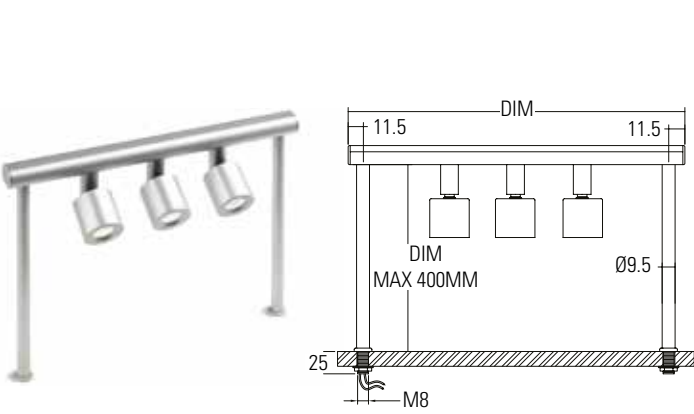
/M2- Method 2 - surface mounted option. Specify stem length, number of spotlights and spacing.



/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.



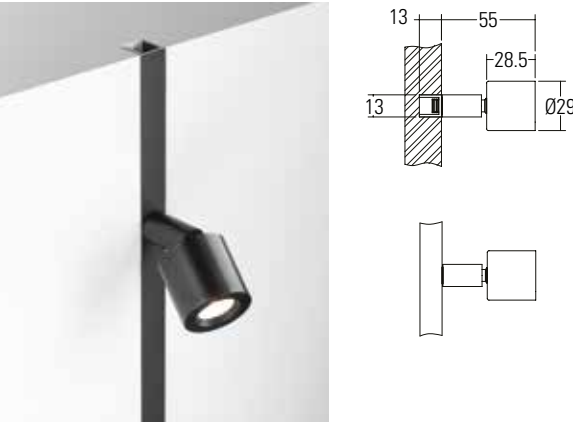
/M4 - Method 4 - goal post method. Specify stem and leg support length, LED spacing and number of spots.



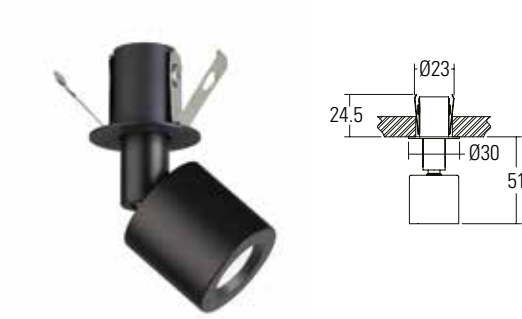
ALTERNATIVE MOUNTING METHODS

Dimensions in mm

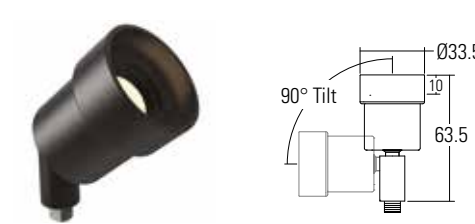
/E1313 - Aluminium U channel can be flush mounted into a routed groove into the side of cabinets which makes a very neat detail. All the wiring can be done at the manufacturing stage speeding up installation. Specify length, number of spotlights and spacing.



/PL1 - Single swivel mounting plate is very useful for mounting individual spotlights neatly into the sides, top or base of cabinets.



/CO - Anti-glare Cowl
The cowl is securely fitted to the LD81 with the aid of an O-ring.



ORDER CODES AND OPTIONS

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

PRODUCT CODES WITH OUTPUT OPTION

1.2W 350mA	LD81-350
1.7W 500mA	LD81-500
2.4W 700mA	LD81-700

LED COLOUR OPTIONS

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

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

BEAM / LENS ANGLE OPTION

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

FINISH OPTIONS

Silver / black / white (RAL 9016) / RAL finish
(Custom bronze / brass wet spray paint colours available, please see our finishes guide on page 250)

MOUNTING METHOD

Method 1	/M1
Method 2	/M2
Method 3	/M3
Method 4	/M4
Aluminium U channel	/E1313
Single swivel mounting plate	/PL1
Anti-glare cowl	/CO

LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers (please see page 232)
Switched, 0-10V, 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 project's 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 XPG2	
Max drive current	350mA	
Max LED power*	1.2W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L ₁₀₀)	107	130
Lumens per circuit watt	89	108

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



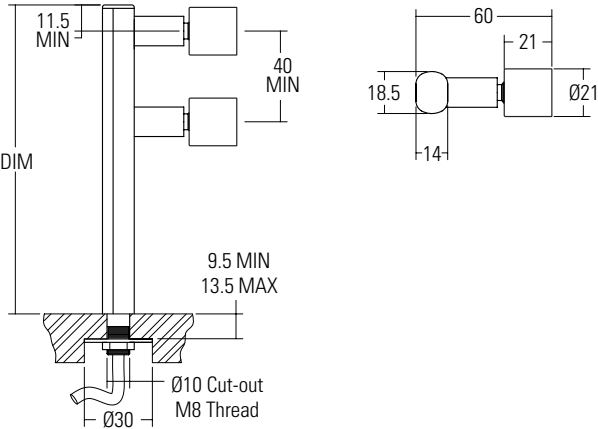
Product: LD81M
Project: Mandarin Oriental, London
Design: Light + Design

MOUNTING OPTIONS AND DIMENSIONS

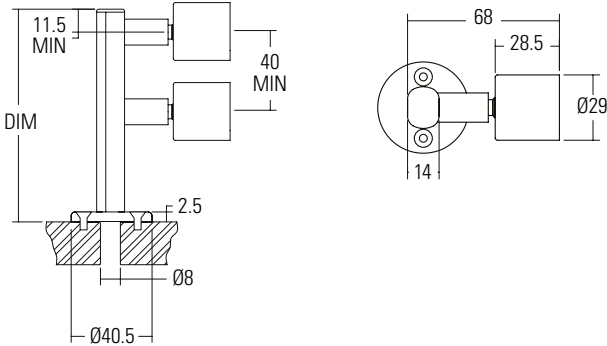
Dimensions in mm

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. Four mounting methods are available and each is custom made to the specification.

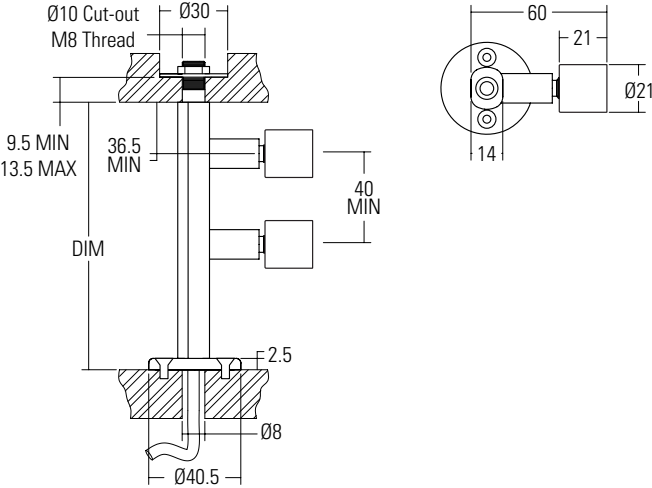
/M1- Method 1 - for fixing to the base of a cabinet, with cables exiting from the M8 all-thread stud. Specify stem length, number of spotlights and spacing.



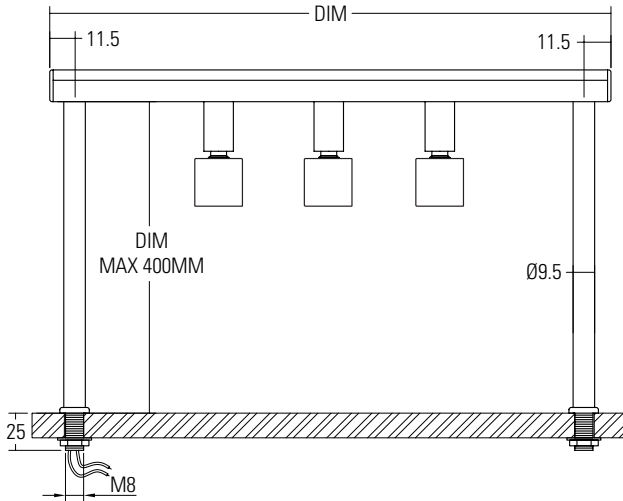
/M2- Method 2 - surface mounted option. Specify stem length, number of spotlights and spacing.



/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.



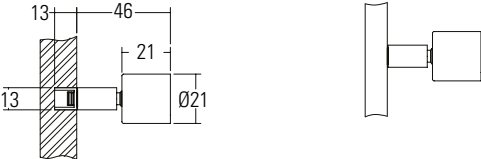
/M4 - Method 4 - goal post method. Specify stem and leg support length, LED spacing and number of spots.



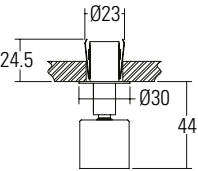
ALTERNATIVE MOUNTING METHODS

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.



/PL1 - 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	Beam Angle	Finish	Mounting Method	Length
LD81M-350					
Example: LD81M-350 / LW30 / MB / Silver Anodised / M1 / 500mm					

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

LED COLOUR OPTIONS	SUFFIX
Super warm white (2200K)	/LW22
Extra warm white (2700K)	/LW27
Warm white (3000K)	/LW30
White (4000K) - on request	/LW40
Cool white (5000K)	/LW50
*Other LED colour temperatures are available. Please speak to a member of our sales team.	

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

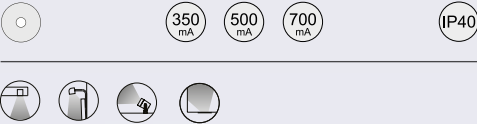
FINISH OPTIONS	
Silver / black / white (RAL 9016) / RAL finish	
(Custom bronze / brass wet spray paint colours available, please see our finishes guide on page 250)	

MOUNTING METHOD	
Method 1	/M1
Method 2	/M2
Method 3	/M3
Method 4	/M4
Aluminium U channel	/E1313
Single swivel mounting plate	/PL1

LED DRIVERS	
Use with 350mA constant current LED drivers (please see page 232)	
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available	

LD82

HIGH POWER SURFACE MOUNTED MINIATURE LED SPOTLIGHT



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 project's 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

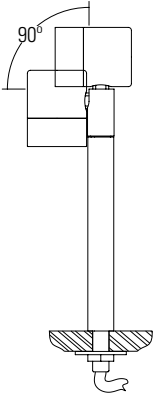
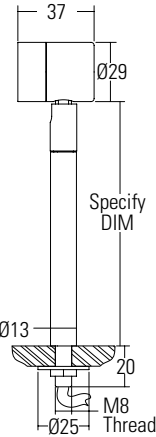
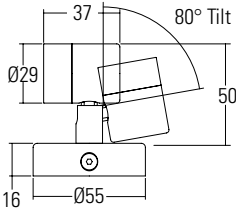
SPECIFICATION

LED	1 x Cree XPG2	
Max drive current	700mA	
Max LED power*	2.4W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L ₁₀₀)	195	237
Lumens per circuit watt	81	99

**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

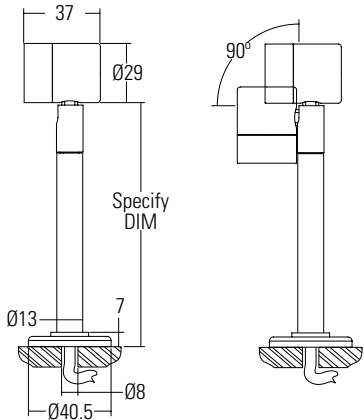
/SMB - Surface mount base offers hidden wiring and a machined pivot arm with lockable tilt and rotation.



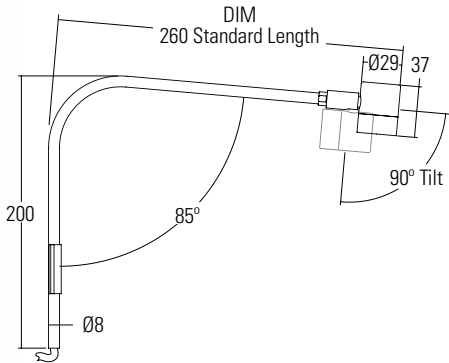
MOUNTING OPTIONS AND DIMENSIONS

Dimensions in mm

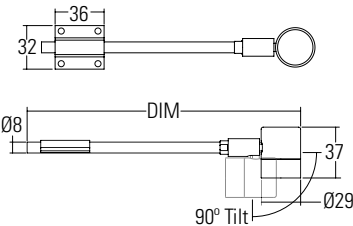
/M2- Method 2 - supplied with a stem and surface mount base which is suited to applications where there is no access to the underside of the mounting surface. Specify DIM (please note this does not include the height of the head).



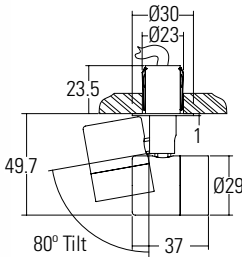
/M3 - Method 3 - is designed for lighting pictures and signs. The range of LightGraphix optics allow the specifier the control and soft edged beam required to light pictures effectively. The arm is height adjustable with the use of the fixing bracket.



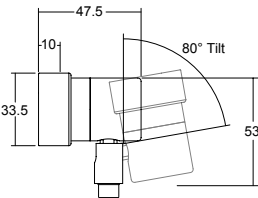
/M4 - Method 4 - is for fixing to an interior ledge, shelf or bookcase. The arm is length adjustable with the use of the fixing bracket. Specify DIM.



/PL1 - This is a very discreet method of mounting a single spotlight into the base or side of a cabinet or showcase.



/CO - Anti-glare cowl
The cowl is securely fitted to the LD82 with the aid of an O-ring.



ORDER CODES AND OPTIONS

Product Code	LED Colour	Beam Angle	Finish	Mounting Method	Length
LD82-350 -500 -700	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Example: LD82-700 / LW30 / MB / Silver Anodised / M1 / 500mm					

PRODUCT CODES WITH OUTPUT OPTION	
1.2W 350mA	LD82-350
1.7W 500mA	LD82-500
2.4W 700mA	LD82-700

LED COLOUR OPTIONS	SUFFIX
Super warm white (2200K)	/LW22
Extra warm white (2700K)	/LW27
Warm white (3000K)	/LW30
White (4000K) - on request	/LW40
Cool white (5000K)	/LW50
Blue	/LB
Green	/LG
Red	/LR
Amber	/LA
*Other LED colour temperatures are available. Please speak to a member of our sales team.	

BEAM / LENS ANGLE 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	
(Custom bronze / brass wet spray paint colours available, please see our finishes guide on page 250)	

MOUNTING METHOD	
Method 1	/M1
Method 2	/M2
Method 3	/M3
Method 4	/M4
PL1	/PL1
Surface mount base	/SMB
Anti-glare cowl	/CO

LED DRIVERS	
Use with 350mA, 500mA or 700mA constant current LED drivers (please see page 232)	
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available	

LD83

HIGH POWER 3 CLUSTER LED SPOTLIGHT WITH MOUNTING SYSTEMS

350

mA

500

mA

IP40



The LD83 is a high power, 3 cluster, adjustable LED spotlight. It features a wide range of mounting options and 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.

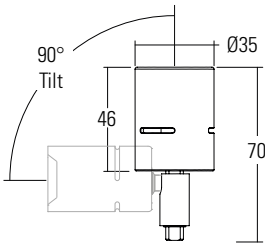


KEY FEATURES

- > Utilizes the latest LED technology with a typical CRI of 93 in warm white
- > Broad range of uses including display, picture and sign lighting
- > Increased airflow & thermal efficiency
- > 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

MOUNTING OPTIONS AND DIMENSIONS

LD83 is supplied as standard with a knuckle joint. This is then fixed to a range of mounting options



SPECIFICATION

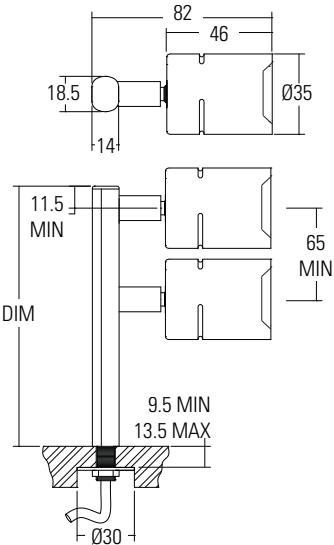
LED	3 x Cree XPG2	
Max drive current	500mA	
Max LED power*	5.1W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L ₁₀₀)	357	434
Lumens per circuit watt	71	87

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

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. Three 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.



MOUNTING OPTIONS AND DIMENSIONS

Dimensions in mm

/M2- Method 2 - surface mounted option. Specify stem length, number of spotlights and spacing.

/PL1 - Single swivel mounting plate is very useful for mounting individual spotlights neatly into the sides, top or base of cabinets.

/CP1 - Single LD83 mounted on ceiling plate. Easy to install with constant force springs. Ideal for ceiling applications. Hole cut out is big enough for driver.

ORDER CODES AND OPTIONS

Product Code	LED Colour	Beam Angle	Finish	Mounting Method	Length
LD83-350-500					
Example: LD83-500 / LW30 / MB / IP40 / E1313 / Black					

PRODUCT CODES WITH OUTPUT OPTION	
3.6W 350mA	LD83-350
5.1W 500mA	LD83-500

LED COLOUR OPTIONS	SUFFIX
Super warm white (2200K)	/LW22
Extra warm white (2700K)	/LW27
Warm white (3000K)	/LW30
White (4000K) - on request	/LW40
Cool white (5000K)	/LW50
Optional secondary red circuit (Speak to sales for more information)	/LW** + LR
Blue	/LB
Green	/LG
Red	/LR
Amber	/LA

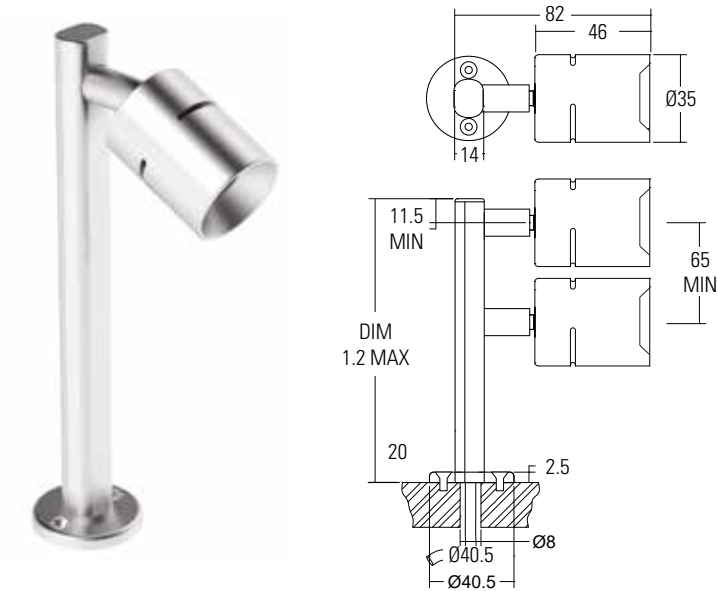
*Other LED colour temperatures are available. Please speak to a member of our sales team.

BEAM / LENS ANGLE OPTION	
22° narrow spot	/NB
30° medium	/MB
40° wide	/WB

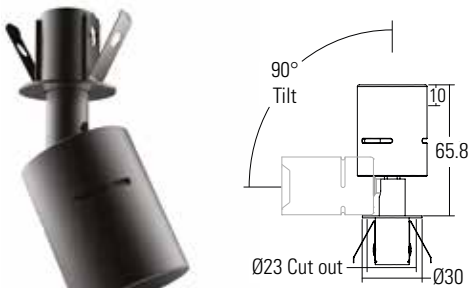
FINISH OPTIONS	
Silver / black / white (RAL 9016) / RAL finish	
(Custom bronze / brass wet spray paint colours available, please see our finishes guide on page 250)	

MOUNTING METHOD	
Method 1	/M1
Method 2	/M2
Method 3	/M3
'U' channel	/E1313
Swivel plate mounting	/PL1
Surface mount base	/SMB
Single ceiling plate	/CP1
Dual ceiling plate	/CP2

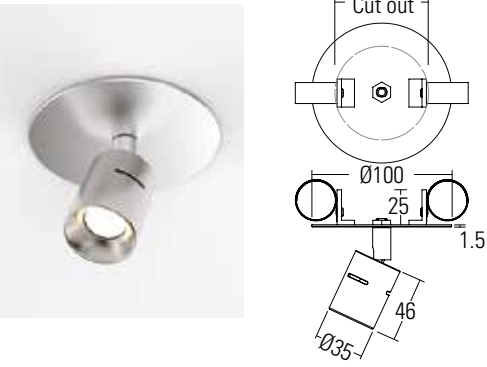
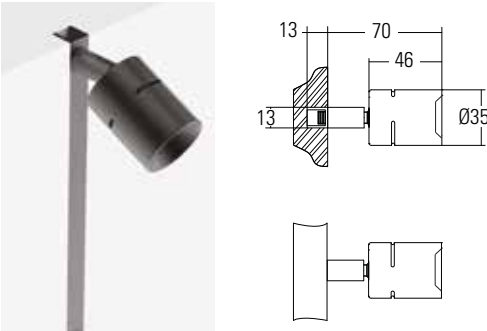
LED DRIVERS	
Use with 350mA or 500mA constant current LED drivers (please see page 232)	
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available	



/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.



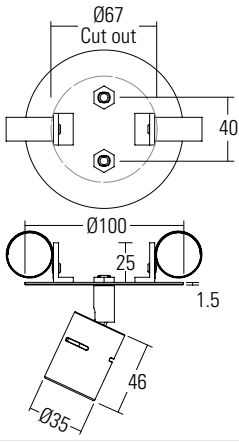
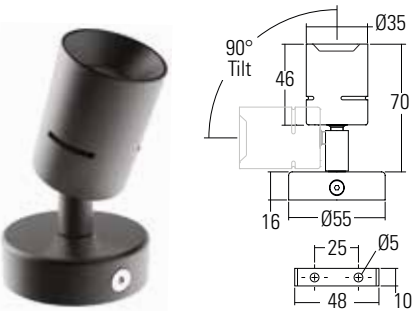
/E1313 - Aluminium U channel can be flush mounted into a routed groove into the side of cabinets which makes a very neat detail. All the wiring can be done at the manufacturing stage speeding up installation. Specify length, number of spotlights and spacing.



/CP2 - 2x LD83 mounted on a ceiling plate. Easy to install with constant force springs. Ideal for ceiling applications. Hole cut out is big enough for driver.



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



LD10235

HIGH POWER FLOOR OR CEILING MOUNTED SPOTLIGHT



LD10235 is a high power floor or ceiling mounted spotlight. It has been designed for applications where a recessed fitting cannot be installed, and a surface mounted solution is required. The LD10235 features a deep recessed E1 LED engine, optional glare shields and a range of optics. The LD10235 has been designed specifically to produce low glare illumination to walls and columns. This is a very tough, high quality fitting, machined from high grade materials ensuring excellent thermal and light output performance. Ideal for interior and exterior applications, incorporating an integral anti-wicking barrier for added protection.



KEY FEATURES

- > E1 engine, featuring the CREE XHP35 LED with 2-step binning
- > Optional 2nd channel LEDs for secondary lighting applications
- > Range of beam angles, featuring an impressively narrow 10° spot for lighting columns and arches, or a 15°x 49° spreader lens, which is ideal for wall washing applications
- > Single optic produces a very consistent beam with no multiple shadows
- > LED and lens recessed in a matt black anodised body for reduced glare
- > Optional glare shield accessories available
- > Minimal aesthetic enabling it to fit into most project styles
- > Body machined from a solid billet of aluminium
- > Range of finishes available
- > Built-in reverse polarity protection
- > LD10235 is available with RGBW and Tunable White LED engines

SPECIFICATION

LED type	1 x E1 LED Engine CREE XHP35	
Max drive current	700mA	
Max LED power	10W	
Colour temperature	3000K	5000K
CRI (typical)	85	80
Delivered lumens (L ₁₀₀)	555	599
Lumens per circuit watt	55	59

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

GLARE SHIELDS

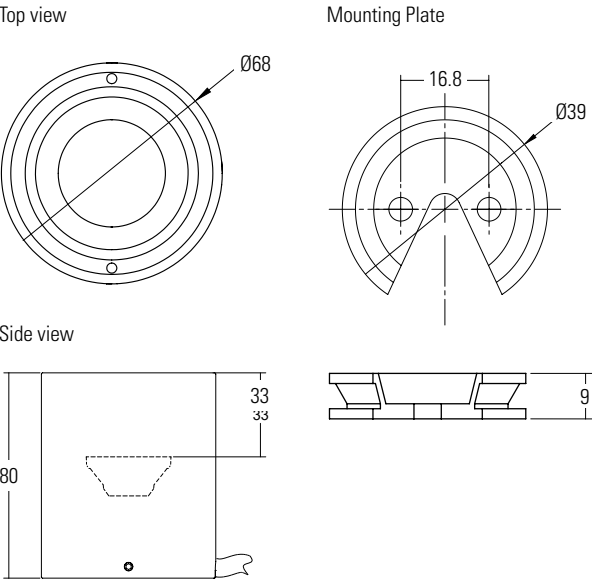
LD10235 comes with a choice of glare control options to further reduce glare from the LED and optic. This does not reduce the light on the lit surface (wall) but will cut out some light onto the ceiling or floor.



- /NGS
No glare shield. Deep recessed optic and matt black anodised optic holder aids in glare reduction.
- /GS
Standard glare shield provides an excellent balance between glare control and light output. This accessory works well in most applications.
- /GSHM
Half-moon glare shield for applications that require very low glare. Minimal loss of light on lit surface (wall) but overall lumen output typically reduced by 50-60%.

DIMENSIONS

Dimensions in mm



ORDER CODES AND OPTIONS FOR E1 LIGHT ENGINE

(for Colour, RGBW and Tunable white, please see data sheets online)

Product Code	LED Colour	Beam Angle	Glare Shield	Finish
10235-E1-350 -500 -700				
Example: LD10235-E1-350 / LW30 / NB / NGS / White				

PRODUCT CODES WITH OUTPUT OPTIONS

5W LED at 350mA	LD10235-E1-350
7W LED at 500mA	LD10235-E1-500
10W LED at 700mA	LD10235-E1-700

LED COLOUR OPTIONS

	SUFFIX
Extra Warm White (2700K)	/LW27
Warm White (3000K)	/LW30
White (4000K) - on request	/LW40
Cool White (5000K)	/LW50
With 2nd channel (red for navigation or amber night lighting) LD10237-E1-2CH	/LW**+L*
*Other LED colour temperatures are available. Please speak to a member of our sales team.	

BEAM / LENS ANGLE OPTIONS

10° narrow spot	/NB
19° medium	/MB
34° wide	/WB
54° extra wide	/WWB
15° x 49° oval	/OB

GLARE SHIELD

No glare shield	/NGS
Standard glare shield	/GS
Half-moon glare shield	/GSHM

FINISH OPTIONS

Silver anodised	
Paint finish black / white (RAL 9016) /RAL	
(Custom bronze / brass wet spray paint colours available, please see our finishes guide on page 250)	

LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers (please see page 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available

LD10236

2 X LED UP AND DOWN WALL WASHER



The LD10236 features the all new E1 LED engine and a new range of optics. Tunable White and RGBW options are also available. A compact, high quality wall washer with excellent output. The LD10236 has a very minimal design ensuring it will blend into most interior and 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. LD10236 is available in a range of finishes.



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

KEY FEATURES

- > New LED light engines offer single white, 2nd channel, Colour, RGBW, and Tunable white LED options
- > Range of beam angles featuring a narrow 10° spot for lighting columns and arches, or a 15°x 49° spreader lens, which is ideal for wall washing applications
- > Single optic produces a very consistent beam with no multiple shadows
- > LED and lens recessed in a matt black anodised body for reduced glare
- > Interior or exterior use
- > High quality machined components
- > Discreet fixing with two grub screws behind the body
- > Minimal aesthetic enabling it to fit into most project styles
- > Range of finish options
- > Built-in reverse polarity protection

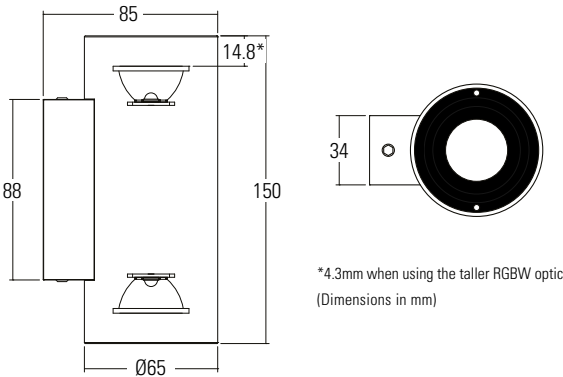
SPECIFICATION

LED type	2 x E1 LED Engine Cree XHP35 <i>Please note, data below is for 2 LEDs</i>	
Max drive current	500mA	
Max LED power*	14W	
Colour temperature	3000K	5000K
CRI (typical)	85	80
Delivered lumens (L ₁₀₀)	951	1022
Lumens per circuit watt	67	73

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

DIMENSIONS

Dimensions in mm



ORDER CODES AND OPTIONS FOR E1 LIGHT ENGINE

(for Colour, RGBW and Tunable white, please see data sheets online)

Product Code	LED Colour	Beam Angle	Finish
LD10236-E1-350-500	<input type="text"/>	<input type="text"/>	<input type="text"/>
Example: LD10236-E1-500 / LW30 / NB / NB / Silver Anodised			

PRODUCT CODES WITH OUTPUT OPTION

10W 350mA	LD10236-E1-350
14W 500mA	LD10236-E1-500

LED COLOUR OPTIONS

	SUFFIX
Extra warm white (2700K)	/LW27
Warm white (3000K)	/LW30
White (4000K) - on request	/LW40
Cool White (5000K)	/LW50
With 2nd channel (red for navigation or amber night lighting) LD10236-E1-2CH	/LW**+L*
*Other LED colour temperatures are available. Please speak to a member of our sales team.	

BEAM / LENS ANGLE OPTION

10° narrow spot	/NB
19° medium	/MB
34° wide	/WB
54° extra wide	/WWB
15° x 49° oval	/OB
Different beam angle at each end	/**/**

FINISH OPTION

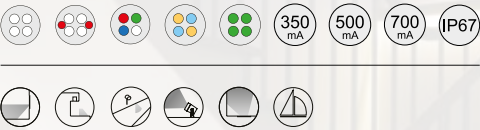
Silver anodised
Chemically brightened (Stainless steel effect)
Paint finish black / white (RAL 9016) / RAL
(Custom bronze / brass wet spray paint colours available, please see our finishes guide on page 250)

LED DRIVERS

Use with 350mA or 500mA constant current LED drivers (please see page 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available

LD10237

LED UP OR DOWN WALL WASHER



The new LD10237 features the new E1 LED engine, along with a new range of optics. Tunable White and RGBW options are also available. A compact, high quality wall washer with excellent output. The LD10237 has a very minimal design ensuring it will blend into most interior and 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.



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

KEY FEATURES

- › New LED light engines offer single white, 2nd channel, Colour, RGBW, and Tunable white LED options
- › Range of beam angles featuring a narrow 10° spot for lighting columns and arches, or a 15°x 49° spreader lens, which is ideal for wall washing applications
- › Single optic produces a very consistent beam with no multiple shadows
- › LED and lens recessed in a matt black anodised bezel 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
- › Built-in reverse polarity protection

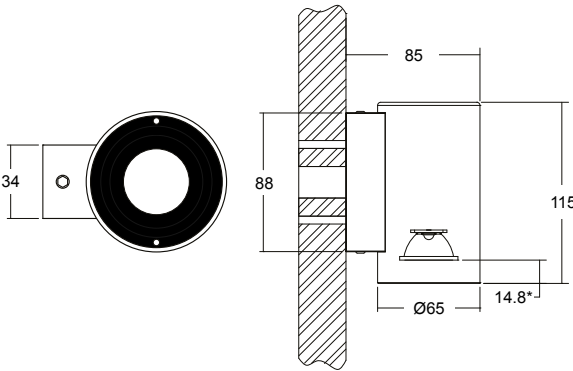
SPECIFICATION

LED type	1 x E1 LED Engine CRE XHP35	
Max drive current	700mA	
Max LED power	10W	
Colour temperature	3000K	5000K
CRI (typical)	85	80
Delivered lumens (L ₁₀₀)	566	611
Lumens per circuit watt	56	61

**LED wattage includes losses associated with using an 85% efficient driver
See our 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 FOR E1 LIGHT ENGINE

(for Colour, RGBW and Tunable white, please see data sheets online)

Product Code	LED Colour	Beam Angle	Finish
LD10237-350-500			
Example: LD10237-TW-500 / LW27 + LW40 / MB / Silver Anodised			

PRODUCT CODES WITH OUTPUT OPTIONS

5W LED at 350mA	LD10237-E1-350
7W LED at 500mA	LD10237-E1-500
10W LED at 700mA	LD10237-E1-700

LED COLOUR OPTIONS

	SUFFIX
Extra Warm White (2700K)	/LW27
Warm White (3000K)	/LW30
White (4000K) - on request	/LW40
Cool White (5000K)	/LW50
With 2nd channel (red for navigation or amber night lighting) LD10237-E1-2CH	/LW**+L*
*Other LED colour temperatures are available. Please speak to a member of our sales team.	

BEAM / LENS ANGLE OPTIONS

10° narrow spot	/NB
19° medium	/MB
34° wide	/WB
54° extra wide	/WWB
15° x 49° oval	/OB

FINISH OPTIONS

Silver anodised
Chemically brightened (Stainless steel effect)
Paint finish black / white (RAL 9016) /RAL
(Custom bronze / brass wet spray paint colours available, please see our finishes guide on page 250)

LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers (please see page 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available

LD10238

HIGH POWER SURFACE MOUNTED
ADJUSTABLE INTERIOR/EXTERIOR
LED SPOTLIGHT



The LD10238 features the new E1 LED engine, along with a new range of optics. Tunable White and RGBW options have also been added to the range. A compact, high power surface mounted spotlight, with excellent output suitable for use in the harshest of external conditions. The LD10238 has a very minimal design ensuring it will blend into most interior and 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

- > New LED light engines offer single white, 2nd channel, Colour, RGBW, and Tunable white LED option
- > Range of beam angles featuring a narrow 10° spot for lighting columns and arches, or a 15°x 49° spreader lens, which is ideal for wall washing applications
- > Low glare is achieved with a cowl, as well as recessing the LED and lens assembly deep within the body
- > Optional glare louvre available
- > Lockable tilt adjustment
- > High quality machined components
- > Single optic produces a very consistent beam with no multiple shadows
- > Wide range of fixing options
- > Range of finish options
- > Built-in reverse polarity protection

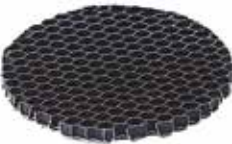
SPECIFICATION

LED type	1 x E1 LED Engine Cree XHP35	
Max drive current	700mA	
Max LED power*	10W	
Colour temperature	3000K	5000K
CRI (typical)	85	80
Delivered lumens (L ₁₀₀)	566	611
Lumens per circuit watt	56	61

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

ACCESSORIES

/HL54 - Honeycombe louvre for reduced glare. Please note this is not suitable for use with the 15° x 49° deg oval beam or RGBW optic due to the quality of the beam.

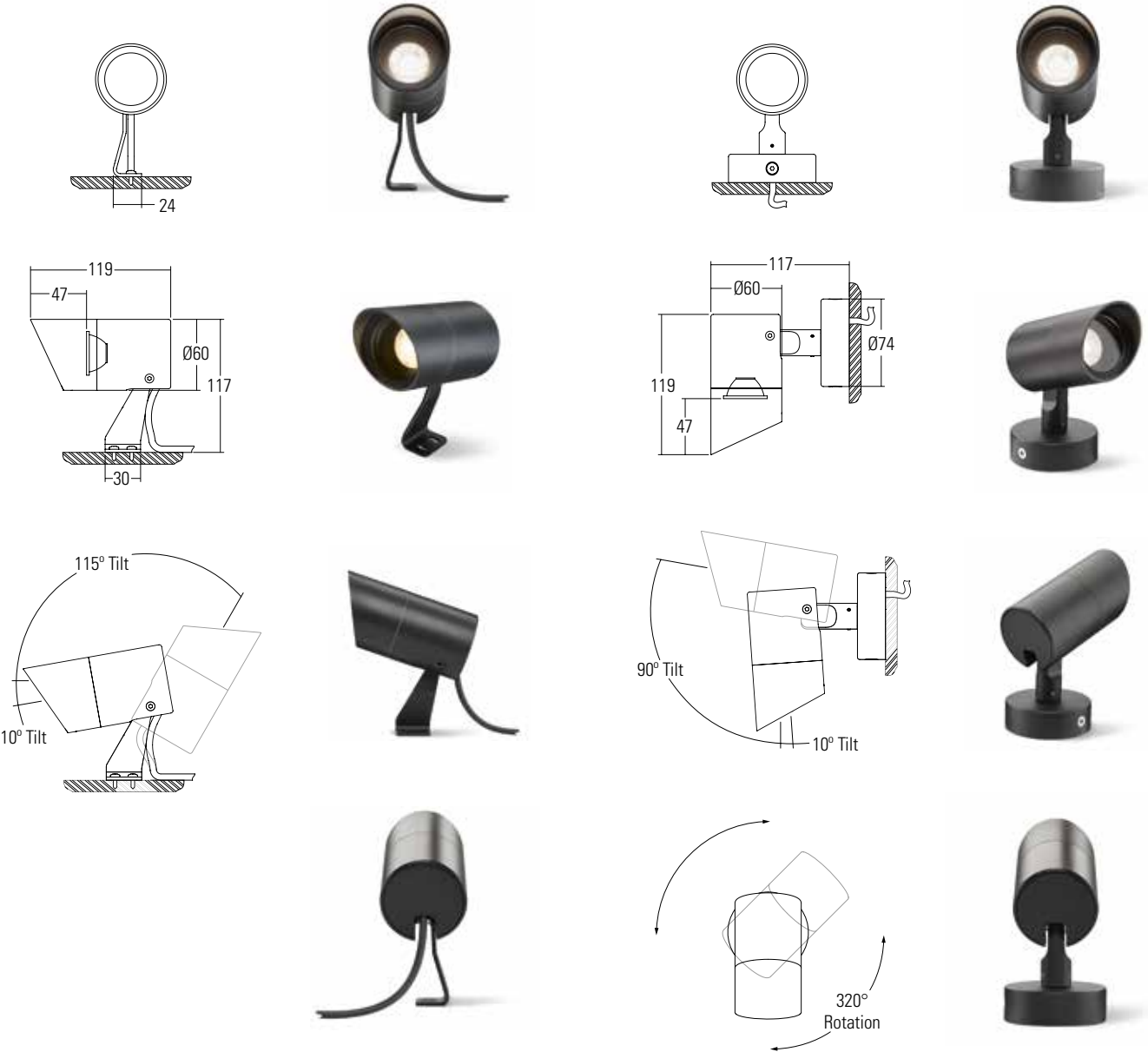


FIXING OPTIONS AND DIMENSIONS

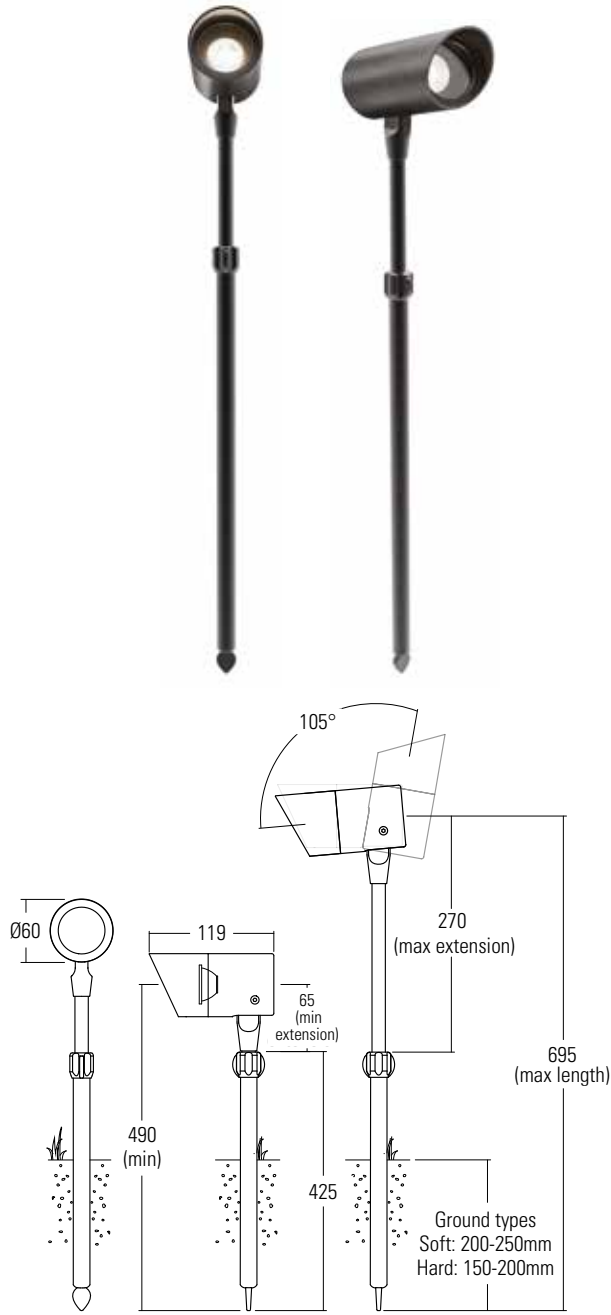
Dimensions in mm

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

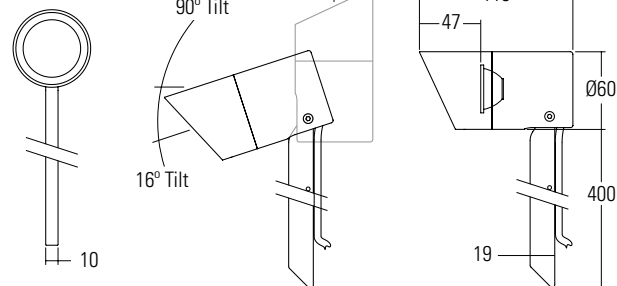
/SMB - Surface mount base offers hidden wiring and a machined pivot arm with lockable tilt and rotation.



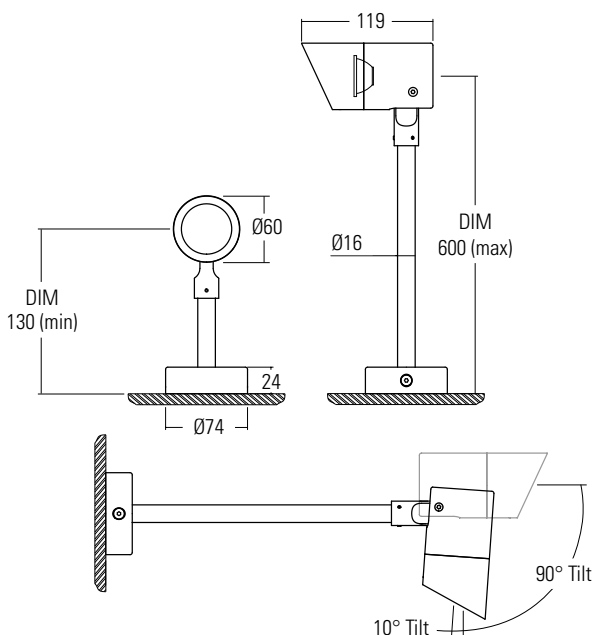
/GSA
Adjustable ground spike with lockable tilt adjustment, for in-ground applications. It also has a height adjustment of 490mm to 695mm to the centre of the fitting.



Ground spike for in-ground applications. Lockable tilt adjustment.

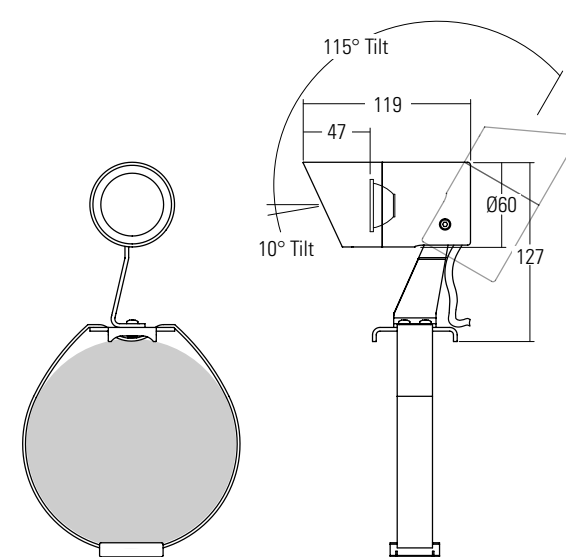


Surface mount base with lockable tilt adjustment has a customisable arm length. It can be specified between 130mm and 600mm to the centre of the fitting. Suitable for vertical and horizontal mounting.



Specify DIM
(All dimensions are shown in millimetres.)

Tree strap accessory is manufactured from a woven nylon webbing, covered with a recycled rubber coating which allows it to grip the trunk when tightened. It allows for minor rotational adjustment. A tilt adjustment of 10° can be achieved towards the tree and is lockable via the socket head screw on the side.



Trunk measurements:
1400mm max circumference
Ø450 maximum diameter

(for Colour, RGBW and Tunable white, please see data sheets online)

LD10238-E1-350				
-500				
-700				

Example: LD10238-E1-700 / LW30 / NB / Black / SMB / HL

5W 350mA	LD10238-350
7W 500mA	LD10238-500
10W 700mA	LD10238-700

LED COLOUR OPTIONS	SUFFIX
Extra warm white (2700K)	/LW27
Warm white (3000K)	/LW30
White (4000K) - on request	/LW40
Cool white (5000K)	/LW50
With 2nd channel (red for navigation or amber night lighting) LD10238-E1-2CH	/LW***L*

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

10° narrow spot	/NB
19° medium	/MB
34° wide	/WB
54° extra wide	/WWB
15° x 49° oval	/OB

Silver / black / white (RAL 9016) / RAL finish
(Custom bronze / brass wet spray paint colours available, please see our finishes guide on page 250)

Surface mount bracket	/SAM
Surface mount base	/SMB
Adjustable ground spike	/GSA
Surface mount base with customisable extended arm (specify DIM)	/SMBEX (DIM)
Ground spike	/GS
Tree strap	/TS
Honeycomb louvre (not suitable for oval beam)	/HL54

Use with 350mA, 500mA or 700mA constant current LED drivers (please see page 232)
Switched, 0-10V, 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 500mA 1.7W due to its small size
- > Minimal bezel thickness
- > Spring clip fixing method

SPECIFICATION

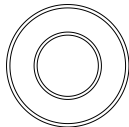
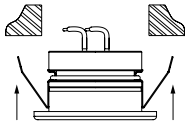
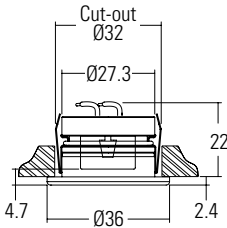
LED	1 x Cree XPG2	
Max drive current	500mA	
Max LED power*	1.7W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L ₁₀₀)	120	146
Lumens per circuit watt	71	86

*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	Beam Angle	Fixing	Bezel Finish
LD40-350 LD40-500	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Example: LD40-500 / LW30 / MB / Stainless steel / SC				

PRODUCT CODES WITH OUTPUT OPTION

1.2W 350mA	LD40-350
1.7W 500mA	LD40-500

LED COLOUR OPTIONS

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

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

BEAM / LENS ANGLE OPTION

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

FIXING OPTIONS

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

BEZEL FINISH OPTIONS

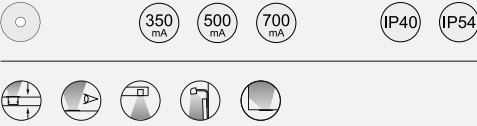
Stainless steel 316 (standard)
Paint finish silver / black / white (RAL 9016) / RAL
Polished stainless steel (passivate for marine environments)
(Custom bronze / brass wet spray paint colours available, please see our finishes guide on page 250)

LED DRIVERS

Use with 350mA or 500mA constant current LED drivers (please see page 232)
Switched, 0-10V, 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)

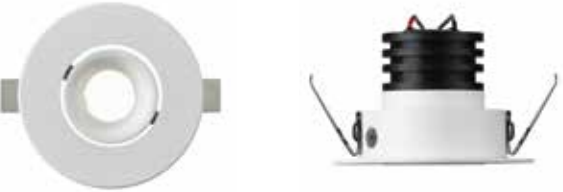
KEY FEATURES

- > 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 XPG2	
Max drive current	700mA	
Max LED power*	2.4W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L ₁₀₀)	195	237
Lumens per circuit watt	81	99

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

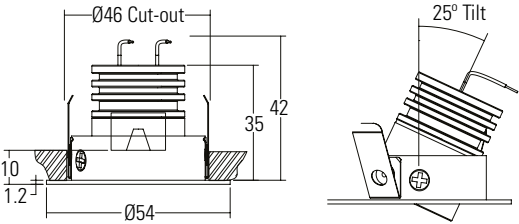


DIMENSIONS

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	Beam Angle	IP rating	Finish
LD71-350 -500 -700	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Example: LD71-700 / LW30 / MB / IP54 / Paint finish white				

PRODUCT CODES WITH OUTPUT OPTION

1.2W 350mA	LD71-350
1.7W 500mA	LD71-500
2.4W 700mA	LD71-700

LED COLOUR OPTIONS

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

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

BEAM / LENS ANGLE 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

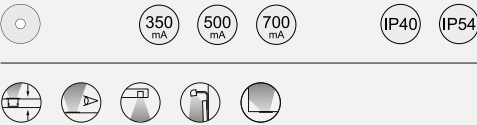
Paint finish silver / black / white (RAL 9016) / RAL
Chrome finish (minimum order - please contact us)
(Custom bronze / brass wet spray paint colours available, please see our finishes guide on page 250)

LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers (please see page 232)
Switched, 0-10V, 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 XPG2	
Max drive current	700mA	
Max LED power*	2.4W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L ₁₀₀)	195	237
Lumens per circuit watt	81	99

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

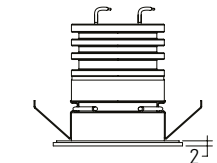
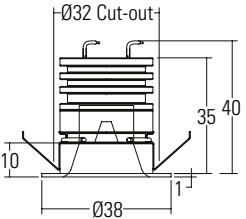


DIMENSIONS

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	Beam Angle	IP rating	Finish
LD72-350 -500 -700				
Example: LD72-700 / LW30 / MB / IP54 / Paint finish white				

PRODUCT CODES WITH OUTPUT OPTION

1.2W 350mA	LD72-350
1.7W 500mA	LD72-500
2.4W 700mA	LD72-700

LED COLOUR OPTIONS

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

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

BEAM / LENS ANGLE 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

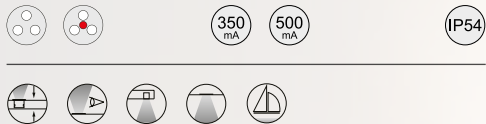
Paint finish silver / black / white (RAL 9016) / RAL
Chrome finish (minimum order - please contact us)
(Custom bronze / brass wet spray paint colours available, please see our finishes guide on page 250)

LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers (please see page 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available

LD74SR

HIGH POWER ULTRA SHALLOW
RECESSED DOWNLIGHT



The LD74SR is part of a new range of ultra shallow, high power downlights designed to fit into ceilings with a minimal recess depth. The innovative horizontal heatsink plate combined with low profile optics ensure that the LD74SR fits into a ceiling depth of only 40mm, whilst delivering over 357lm, making it ideal for general lighting or display applications. Originally designed for yacht installations, this fitting can be specified with an extra red LED for night time navigation. It is rated IP54 as standard making it ideal for use in wet environments.



KEY FEATURES

- > Only 40mm ceiling depth required
- > 357 delivered lumens
- > Innovative horizontal heatsink plate
- > High power to size ratio
- > Recessed LED position for reduced glare
- > 93 CRI LEDs
- > IP54 as standard
- > Hidden fixing with spring clips for simple, quick installation

RED NAVIGATION CIRCUIT

For yacht applications in areas where a night time red navigation light is required, the LD74SR can be supplied with the standard 3 white light LED cluster and an additional single red LED on a second circuit. It is supplied with a 4 core cable (2 circuits) and requires 2 drivers. Please see our driver guide for the quantities of LD74SRs that each driver can run.



SPECIFICATION

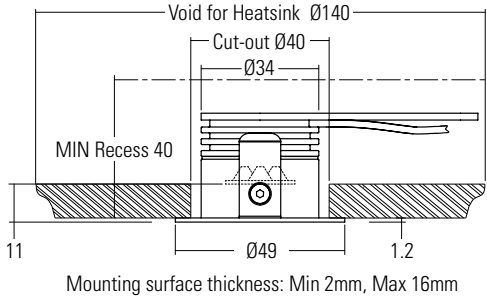
LED	3 x Cree XPG2	
Max drive current	500mA	
Max LED power*	5.1W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L ₁₀₀)	357	434
Lumens per circuit watt	71	87

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

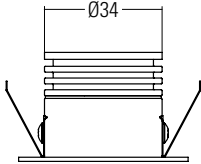
DIMENSIONS

Dimensions in mm

Cross section view



Side view



ORDER CODES AND OPTIONS

Product Code	LED Colour	Beam Angle	Finish
LD74SR-350-500			
Example: LD74SR-350 / LW30+LR / MB / White			

PRODUCT CODES WITH OUTPUT OPTION

3.6W 350mA	LD74SR-350
5.1W 500mA	LD74SR-500

LED COLOUR OPTIONS

	SUFFIX
Super warm white (2200K)	/LW22
Extra warm white (2700K)	/LW27
Warm white (3000K)	/LW30
White (4000K) - on request	/LW40
Cool white (5000K)	/LW50
Optional secondary red navigation circuit	/LW**+LR
Blue	/LB
Green	/LG
Red	/LR
Amber	/LA

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

BEAM / LENS ANGLE OPTION

22° narrow spot	/NB
30° medium	/MB
40° wide	/WB

FINISH OPTIONS

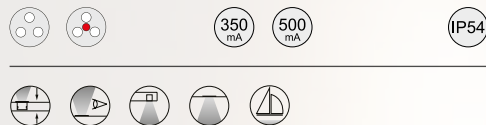
Bezel - Paint finish white (RAL 9016) / black / RAL
Chrome finish (minimum order - please contact us)
(Custom bronze / brass wet spray paint colours available, please see our finishes guide on page 250)

LED DRIVERS

Use with 350mA or 500mA constant current LED drivers (please see page 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available

LD73SR

HIGH POWER ULTRA SHALLOW
ADJUSTABLE RECESSED DOWNLIGHT



The LD73SR is part of a new range of ultra shallow, high power downlights designed to fit into ceilings with a minimal recess depth. The innovative horizontal heatsink plate combined with low profile optics ensure that the LD73SR fits into a ceiling depth of only 40mm, whilst delivering over 357lm. The tilt adjustment of 25° allows plenty of flexibility when focusing and makes it ideal for general lighting or display applications. Originally designed for yacht installations, this fitting can be specified with an extra red LED for night time navigation. It is rated IP54 as standard making it ideal for use in wet environments.



KEY FEATURES

- > Only 40mm ceiling depth required
- > 357 delivered lumens
- > Innovative horizontal heatsink plate
- > Adjustable with a 25° tilt
- > High power to size ratio
- > Recessed LED position for reduced glare
- > 93 CRI LEDs
- > IP54 as standard
- > Hidden fixing with spring clips for simple, quick installation

RED NAVIGATION CIRCUIT

For yacht applications in areas where a night time red navigation light is required, the LD73SR can be supplied with the standard 3 white light LED cluster and an additional single red LED on a second circuit. It is supplied with a 4 core cable (2 circuits) and requires 2 drivers. Please see our driver guide for the quantities of LD73SRs that each driver can run.



SPECIFICATION

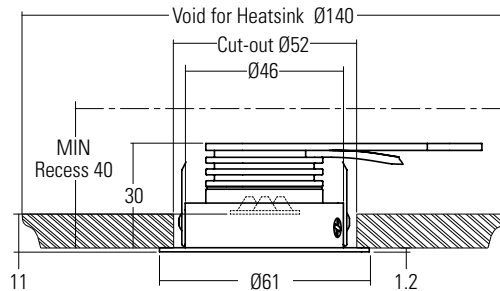
LED	3 x Cree XPG2	
Max drive current	500mA	
Max LED power*	5.1W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L ₁₀₀)	357	434
Lumens per circuit watt	71	87

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

DIMENSIONS

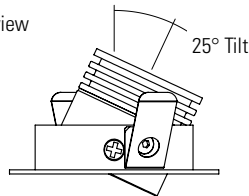
Dimensions in mm

Cross section view



Mounting surface thickness: Min 2mm, Max 16mm

Side view



ORDER CODES AND OPTIONS

Product Code	LED Colour	Beam Angle	Finish
LD73SR-350 -500			
Example: LD73SR-350 / LW30+LR / MB / White			

PRODUCT CODES WITH OUTPUT OPTION

3.6W 350mA	LD73SR-350
5.1W 500mA	LD73SR-500

LED COLOUR OPTIONS

	SUFFIX
Super warm white (2200K)	/LW22
Extra warm white (2700K)	/LW27
Warm white (3000K)	/LW30
White (4000K) - on request	/LW40
Cool white (5000K)	/LW50
Optional secondary red navigation circuit	/LW**+LR
Blue	/LB
Green	/LG
Red	/LR
Amber	/LA

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

BEAM / LENS ANGLE OPTION

22° narrow spot	/NB
30° medium	/MB
40° wide	/WB

FINISH OPTIONS

Bezel - Paint finish white (RAL 9016) / black / RAL
Chrome finish (minimum order - please contact us)
(Custom bronze / brass wet spray paint colours available, please see our finishes guide on page 250)

LED DRIVERS

Use with 350mA or 500mA constant current LED drivers (please see page 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available

LD74SR-OP

HIGH POWER ULTRA SHALLOW
RECESSED DOWNLIGHT



The LD74SR-OP is a little bit different! It does not use an optic and is supplied with an opal diffuser. The result is an exceptionally wide, diffused beam of light, giving an almost 175° wash. It is part of a new range of ultra shallow, high powered downlights designed to fit into ceilings with a minimal recess depth. The innovative horizontal heatsink plate allows the LD74SR-OP to fit into a 40mm ceiling depth. Applications for this product include display lighting and general illumination where an especially wide spread of light is required. Originally designed for yacht installations, this fitting can be specified with an extra red LED for night time navigation, and is IP54 rated as standard for use in wet environments.



KEY FEATURES

- > 175° beam of light
- > Only 40mm ceiling depth required
- > Innovative horizontal heatsink plate
- > No spotting of LEDs with a glowing disc of light
- > High power to size ratio
- > 93 CRI LEDs
- > IP54 as standard
- > Hidden fixing with spring clips for simple, quick installation

RED NAVIGATION CIRCUIT

For yacht applications in areas where a night time red navigation light is required, the LD74SR-OP can be supplied with the standard 3 white light LED cluster and an additional single red LED on a second circuit. It is supplied with a 4 core cable (2 circuits) and requires 2 drivers. Please see our driver guide for the quantities of LD74SR-OPs that each driver can run.



SPECIFICATION

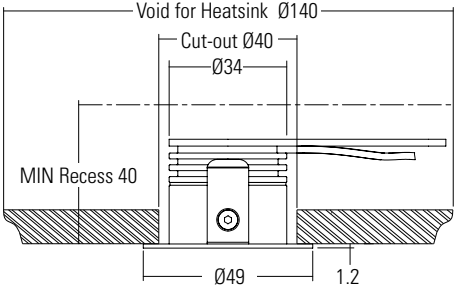
LED	3 x Cree XPG2	
Max drive current	500mA	
Max LED power*	5.1W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L ₁₀₀)	171	206

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

DIMENSIONS

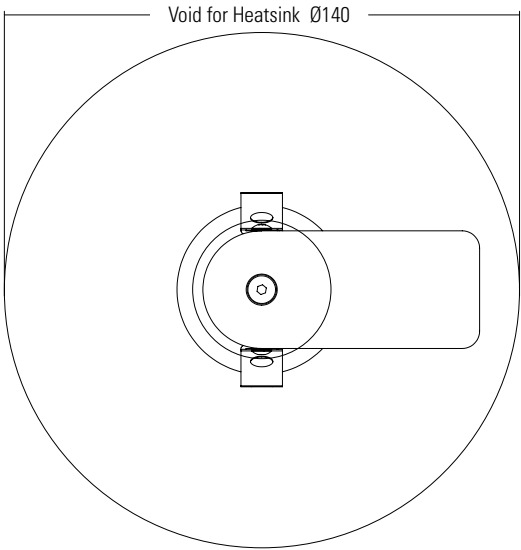
Dimensions in mm

Cross section view



Mounting surface thickness: Min 2mm, Max 16mm

Top view



ORDER CODES AND OPTIONS

Product Code	LED Colour	Finish
LD74SR-OP-350 -500		
Example: LD74SR-OP-350 / LW30+LR / White		

PRODUCT CODES WITH OUTPUT OPTION

3.6W 350mA	LD74SR-OP-350
5.1W 500mA	LD74SR-OP-500

LED COLOUR OPTIONS

LED COLOUR OPTIONS	SUFFIX
Super warm white (2200K)	/LW22
Extra warm white (2700K)	/LW27
Warm white (3000K)	/LW30
White (4000K) - on request	/LW40
Cool white (5000K)	/LW50
Optional secondary red navigation circuit	/LW**+LR
Blue	/LB
Green	/LG
Red	/LR
Amber	/LA

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

FINISH OPTIONS

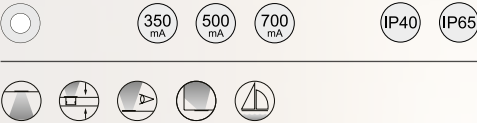
Bezel - Paint finish white (RAL 9016) / black / RAL
Chrome finish (minimum order - please contact us)
(Custom bronze / brass wet spray paint colours available, please see our finishes guide on page 250)

LED DRIVERS

Use with 350mA or 500mA constant current LED drivers (please see page 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available

LD1081

ULTRA SHALLOW RECESSED FIXED HIGH OUTPUT LED DOWNLIGHT



The LD1081 is part of a range of ultra shallow, high power downlights designed to fit into ceilings with a minimal recess depth. The LD1081 is particularly unique since it only requires a ceiling depth of 50mm, but can deliver up to 900lm. This compact, high quality downlight is ideal for general illumination, as well as wall washing and column lighting applications. A honeycomb louvre accessory is available, which reduces the glare from the powerful light source. Rated IP40 as standard, with an IP65 rating available for wet/humid areas including bathrooms and spas. Careful LED selection and extensive thermal testing and development time has resulted in a product that offers a huge light output, from a very compact, shallow fitting. A minimalistic design ensures it complements most interior project styles.



KEY FEATURES

- > Shallow recess depth of only 50mm required (350/500mA version only)
- > High power 900lm output
- > 93 CRI Cree LED
- > A single optic produces a very consistent beam with no multiple shadows
- > High quality, machined, anodised aluminium components
- > IP65 option for wet areas including bathrooms and spas
- > Constant force springs make this fitting suitable for delicate mounting surfaces

ACCESSORIES

/HL36
Honeycombe louvre for reduced glare. Please note this will increase the height of the fitting by 4mm.



IP65 RATED VERSION

/IP65
For wet areas including spas, bathrooms and showers the LD1081 can be specified as IP65.

SPECIFICATION

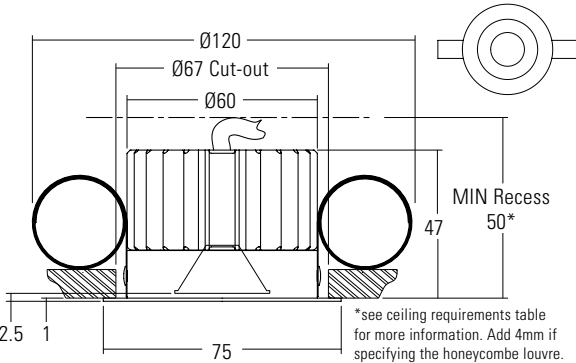
LED	1 x Cree CXB 1310	
Max drive current	700mA	
Max LED power*	14W	
Colour temperature	3000K	5000K
CRI (typical)	93	80
Delivered lumens (L ₁₀₀)	901	1107
Lumens per circuit watt	68	83

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

DIMENSIONS AND FIXING OPTIONS

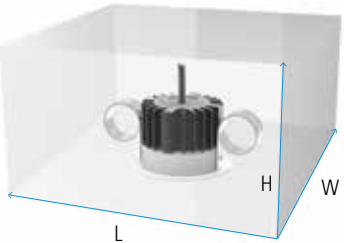
Dimensions in mm

Supplied as standard with constant force springs which are suitable for the majority of installations. They are particularly well suited to delicate surfaces.



CEILING REQUIREMENTS

Ceiling requirements can vary but the minimum ceiling void volume must be adhered to. The minimum possible ceiling depth is 50mm at 350/500mA, and 56mm at 700mA. The volumes below are presented as L x W x H.



Output current	Minimum ceiling void dimension requirements (Lmm x Wmm x Hmm)	Minimum Ceiling void volume	
		cm ³	Litre(s)
LD1081-350	150 x 150 x 50 (54 with /HL)	1125	1.1
LD1081-500	160 x 160 x 50 (54 with /HL)	1280	1.3
LD1081-700	230 x 230 x 56 (60 with /HL)	2962	3

Note: At 700mA the minimum dimension between a wall, within the ceiling void and the edge of the fitting must be 70mm.

ORDER CODES AND OPTIONS

Product Code	LED Colour	Beam Angle	IP Rating	Accessory	Finish
LD1081-350 -500 -700	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Example: LD1081-500 / LW30 / WB / IP40 / HL / White					

PRODUCT CODES WITH OUTPUT OPTIONS

7W LED at 350mA	LD1081-350
10W LED at 500mA	LD1081-500
14W LED at 700mA	LD1081-700

LED COLOUR OPTIONS

	SUFFIX
Extra Warm White (2700K)	/LW27
Warm White (3000K)	/LW30
White (4000K) - on request	/LW40
Cool White (5000K)	/LW50

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

BEAM / LENS ANGLE OPTION

19° narrow spot	/NB
28° medium	/MB
41° wide	/WB

IP RATING

IP40	/IP40
IP65	/IP65

ACCESSORY

Honeycombe louvre	/HL36
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FINISH OPTIONS

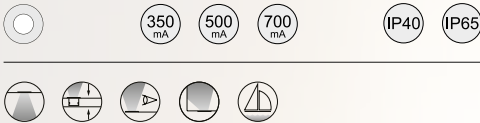
Paint finish white (RAL 9016) / black / RAL
(Custom bronze / brass wet spray paint colours available, please see our finishes guide on page 250)

LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers (please see page 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available

LD1080

SHALLOW RECESSED LOW GLARE FIXED LED DOWNLIGHT



The LD1080 is part of a range of ultra shallow, high power downlights designed to fit into ceilings with a minimal recess depth. This compact, high quality downlight delivers in excess of 900lm light output, making it ideal for general downlighting, as well as for wall washing and column lighting applications. Rated IP40 as standard, the LD1080 can also be specified as IP65 for wet/humid areas including bathrooms and spas. Careful LED selection and extensive thermal testing and development time has resulted in a product that offers a huge light output, from a very compact, shallow fitting. A minimalistic design ensures it complements most interior project styles.



KEY FEATURES

- > Specially designed for ceilings with a minimal recess depth - only 70mm required
- > High power 900lm output
- > 93 CRI Cree LED
- > Recessed LED and optic for reduced glare
- > Single optic produces a very consistent beam, no multiple shadows
- > High quality, machined, anodised aluminium components
- > IP65 option for wet areas including bathrooms and spas
- > Constant force springs make this fitting suitable for delicate mounting surfaces

ACCESSORIES

/HL36
Honeycombe louvre for reduced glare. Please note this will increase the height of the fitting by 4mm.



IP65 RATED VERSION

/IP65
For wet areas including spas, bathrooms and showers the LD1080 can be specified as IP65.

SPECIFICATION

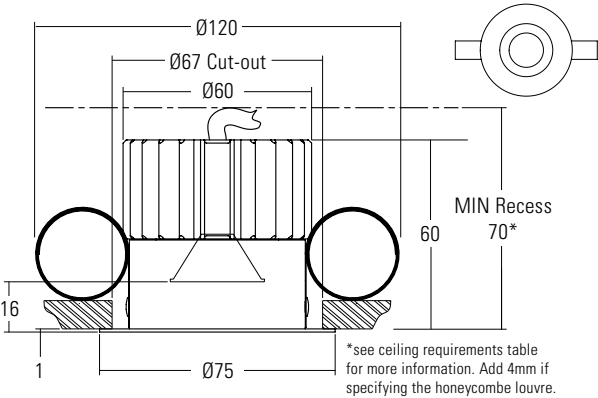
LED	1 x Cree CXB 1310	
Max drive current	700mA	
Max LED power*	14W	
Colour temperature	3000K	5000K
CRI (typical)	93	80
Delivered lumens (L ₁₀₀)	901	1107
Lumens per circuit watt	68	83

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

DIMENSIONS AND FIXING OPTIONS

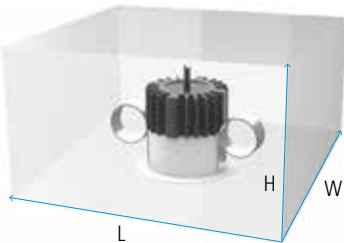
Dimensions in mm

Supplied as standard with constant force springs which are suitable for the majority of installations. They are particularly well suited to delicate surfaces.



CEILING REQUIREMENTS

Ceiling requirements can vary but the minimum ceiling void volume must be adhered to. The minimum possible ceiling depth is 70mm. The volumes below are presented as L x W x H.



Output current	Minimum ceiling void dimension requirements (Lmm x Wmm x Hmm)	Minimum Ceiling void volume	
		cm ³	Litre(s)
LD1080-350	120 x 120 x 70 (74 with /HL)	1008	1
LD1080-500	140 x 140 x 70 (74 with /HL)	1372	1.3
LD1080-700	200 x 200 x 70 (74 with /HL)	2800	2.8

Note: At 700mA the minimum dimension between a wall, within the ceiling void and the edge of the fitting must be 70mm.

ORDER CODES AND OPTIONS

Product Code	LED Colour	Beam Angle	IP Rating	Accessory	Finish
LD1080-350 -500 -700	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Example: LD1080-500 / LW30 / WB / IP40 / HL / White					

PRODUCT CODES WITH OUTPUT OPTIONS

7W LED at 350mA	LD1080-350
10W LED at 500mA	LD1080-500
14W LED at 700mA	LD1080-700

LED COLOUR OPTIONS

	SUFFIX
Extra Warm White (2700K)	/LW27
Warm White (3000K)	/LW30
White (4000K) - on request	/LW40
Cool White (5000K)	/LW50

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

BEAM / LENS ANGLE OPTION

19° narrow spot	/NB
28° medium	/MB
41° wide	/WB

IP RATING

IP40	/IP40
IP65	/IP65

ACCESSORY

Honeycombe louvre	/HL36
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FINISH OPTIONS

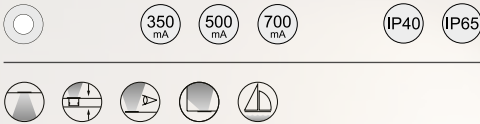
Paint finish white (RAL 9016) / black / RAL
(Custom bronze / brass wet spray paint colours available, please see our finishes guide on page 250)

LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers (please see page 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available

LD1082

SHALLOW RECESSED LOW GLARE FIXED LED DOWNLIGHT WITH BLACK BAFFLE



The LD1082 is part of a new range of ultra shallow, high power downlights designed to fit into ceilings with a minimal recess depth. This compact, high quality downlight delivers in excess of 900lm light output making it ideal for general downlighting, as well as wall washing and column lighting applications. Glare control has been improved via the use of a matt black internal baffle (other finishes are available). This fitting is rated at IP40 as standard, but can be specified as IP65 for wet/humid areas including bathrooms and spas. Careful LED selection and extensive thermal testing and development time has resulted in a product that offers huge light output, from a very compact, shallow fitting. A minimalistic design ensures it complements most interior project styles.



KEY FEATURES

- > Specially designed for ceilings with a minimal recess depth - only 70mm required
- > High power 900lm output
- > Matt black internal baffle provides increased glare control
- > 93 CRI Cree LED
- > Recessed LED and optic for reduced glare
- > Single optic produces a very consistent beam, no multiple shadows
- > High quality, machined, anodised aluminium components
- > IP65 option for wet areas including bathrooms and spas
- > Constant force springs make this fitting suitable for delicate mounting surfaces

ACCESSORIES

/HL36
Honeycombe louvre for reduced glare. Please note this will increase the height of the fitting by 4mm.



IP65 RATED VERSION

/IP65
For wet areas including spas, bathrooms and showers the LD1082 can be specified as IP65.

SPECIFICATION

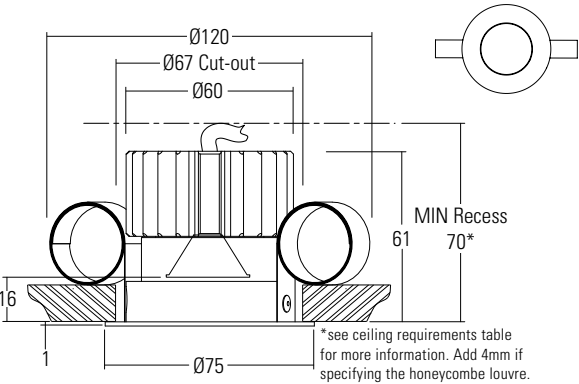
LED	1 x Cree CXB 1310	
Max drive current	700mA	
Max LED power*	14W	
Colour temperature	3000K	5000K
CRI (typical)	93	80
Delivered lumens (L ₁₀₀)	901	1107
Lumens per circuit watt	68	83

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

DIMENSIONS AND FIXING OPTIONS

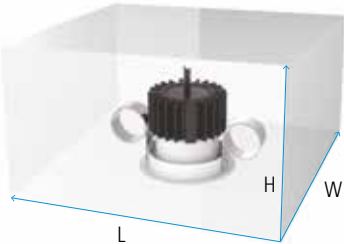
Dimensions in mm

Supplied as standard with constant force springs which are suitable for the majority of installations. They are particularly well suited to delicate surfaces.



CEILING REQUIREMENTS

Ceiling requirements can vary but the minimum ceiling void volume must be adhered to. The minimum possible ceiling depth is 70mm. The volumes below are presented as L x W x H.



Output current	Minimum ceiling void dimension requirements (Lmm x Wmm x Hmm)	Minimum Ceiling void volume	
		cm ³	Litre(s)
LD1082-350	120 x 120 x 70 (74 with /HL)	1008	1
LD1082-500	140 x 140 x 70 (74 with /HL)	1372	1.3
LD1082-700	200 x 200 x 70 (74 with /HL)	2800	2.8

Note: At 700mA the minimum dimension between a wall, within the ceiling void and the edge of the fitting must be 70mm.

ORDER CODES AND OPTIONS

Product Code	LED Colour	Beam Angle	IP Rating	Accessory	Finish
LD1082-350 -500 -700	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Example: LD1082-500 / LW30 / WB / IP40 / HL / White					

PRODUCT CODES WITH OUTPUT OPTIONS

7W LED at 350mA	LD1082-350
10W LED at 500mA	LD1082-500
14W LED at 700mA	LD1082-700

LED COLOUR OPTIONS

	SUFFIX
Extra Warm White (2700K)	/LW27
Warm White (3000K)	/LW30
White (4000K) - on request	/LW40
Cool White (5000K)	/LW50

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

BEAM / LENS ANGLE OPTION

19° narrow spot	/NB
28° medium	/MB
41° wide	/WB

IP RATING

IP40	/IP40
IP65	/IP65

ACCESSORY

Honeycombe louvre	/HL36
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FINISH OPTIONS

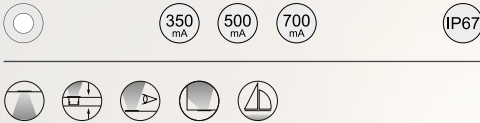
Bezel - Paint finish white (RAL 9016) / black / RAL
Baffle - Paint finish black (Standard), other finishes are available on request
(Custom bronze / brass wet spray paint colours available, please see our finishes guide on page 250)

LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers (please see page 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available

LD1083

EXTERIOR RATED SHALLOW RECESSED
LOW GLARE FIXED LED DOWNLIGHT



The LD1083 is an IP67 rated, ultra shallow, high power downlight designed for external use including boats and marine environments. The compact fitting delivers in excess of 900lm light output, making it ideal for general downlighting, as well as for wall washing and column lighting applications. Careful LED selection and extensive thermal testing and development time has resulted in a product that offers a huge light output, from a very compact, shallow fitting. The use of high quality machined components, and LightGraphix' experience in designing products for this type of environment, has resulted in a very robust downlight that is built to last. A minimalistic design ensures it complements most interior and exterior project styles.



KEY FEATURES

- > Designed for external applications including boats/ marine environments
- > High quality machined stainless steel 316 and anodised aluminium components
- > Designed for ceilings with a minimal recess depth - only 70mm required
- > Inner baffle is supplied as gun metal grey as standard
- > High power 900lm output
- > 93 CRI Cree LED
- > Recessed LED and optic for reduced glare
- > Single optic produces a very consistent beam, no multiple shadows
- > IP67 as standard
- > Constant force springs make this fitting suitable for delicate mounting surfaces

ACCESSORIES

/HL36
Honeycombe louvre for reduced glare. Please note this will increase the height of the fitting by 4mm.



SPECIFICATION

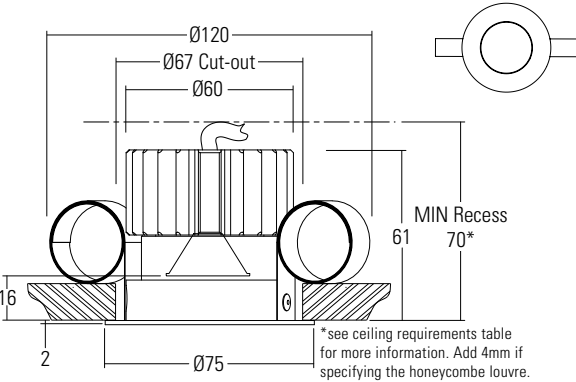
LED	1 x Cree CXB 1310	
Max drive current	700mA	
Max LED power*	14W	
Colour temperature	3000K	5000K
CRI (typical)	93	80
Delivered lumens (L ₁₀₀)	840	1035
Lumens per circuit watt	63	78

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

DIMENSIONS AND FIXING OPTIONS

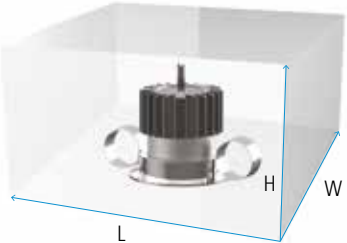
Dimensions in mm

Supplied as standard with constant force springs which are suitable for the majority of installations. They are particularly well suited to delicate surfaces.



CEILING REQUIREMENTS

Ceiling requirements can vary but the minimum ceiling void volume must be adhered to. The minimum possible ceiling depth is 70mm. The volumes below are presented as L x W x H.



Output current	Minimum ceiling void dimension requirements (Lmm x Wmm x Hmm)	Minimum Ceiling void volume	
		cm ³	Litre(s)
LD1083-350	120 x 120 x 70 (74 with /HL)	1008	1
LD1083-500	140 x 140 x 70 (74 with /HL)	1372	1.3
LD1083-700	200 x 200 x 70 (74 with /HL)	2800	2.8

Note: At 700mA the minimum dimension between a wall, within the ceiling void and the edge of the fitting must be 70mm.

ORDER CODES AND OPTIONS

Product Code	LED Colour	Beam Angle	Accessory	Finish
LD1083-350 -500 -700	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Example: LD1083-500 / LW30 / MB / HL / White				

PRODUCT CODES WITH OUTPUT OPTIONS

7W LED at 350mA	LD1083-350
10W LED at 500mA	LD1083-500
14W LED at 700mA	LD1083-700

LED COLOUR OPTIONS

	SUFFIX
Extra Warm White (2700K)	/LW27
Warm White (3000K)	/LW30
White (4000K) - on request	/LW40
Cool White (5000K)	/LW50

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

BEAM / LENS ANGLE OPTION

19° narrow spot	/NB
28° medium	/MB
41° wide	/WB

ACCESSORY

Honeycombe louvre	/HL36
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FINISH OPTIONS

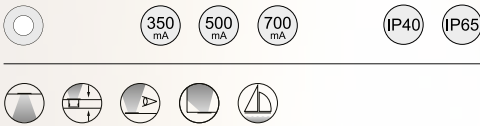
Bezel - Polished and passivated stainless steel (marine grade polishing) as standard.
Paint finish black / white (RAL 9016) / RAL
Baffle - Anodised gun metal grey (standard). Paint finish black / white (RAL 9016) / RAL

LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers (please see page 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available

LD1090

SHALLOW RECESSED LOW GLARE ADJUSTABLE LED DOWNLIGHT



The LD1090 is part of a new range of ultra shallow, high power downlights designed to fit into ceilings with a minimal recess depth. The adjustable, compact, high quality downlight delivers in excess of 900lm light output making it ideal for general downlighting, as well as wall washing and column lighting applications. This fitting is rated at IP40 as standard, but can be specified as IP65 for wet/humid areas including bathrooms and spas. Careful LED selection and extensive thermal testing and development time has resulted in a product that offers huge light output, from a very compact, shallow fitting. A minimalistic design ensures it complements most interior project styles.



KEY FEATURES

- > Specially designed for ceilings with minimal recess depth - only 70mm required
- > Adjustable with a 25° tilt
- > High power 900lm output
- > 93 CRI Cree LED
- > Recessed LED and optic for reduced glare
- > Single optic produces a very consistent beam with no multiple shadows
- > High quality, machined, anodised aluminium components
- > IP65 option for wet areas including bathrooms and spas
- > Constant force springs make this fitting suitable for delicate mounting surfaces



ACCESSORIES

/HL36
Honeycombe louvre for reduced glare. Please note this will increase the height of the fitting by 4mm.



IP65 RATED VERSION

/IP65
For wet areas including spas, bathrooms and showers the LD1090 can be specified as IP65.

SPECIFICATION

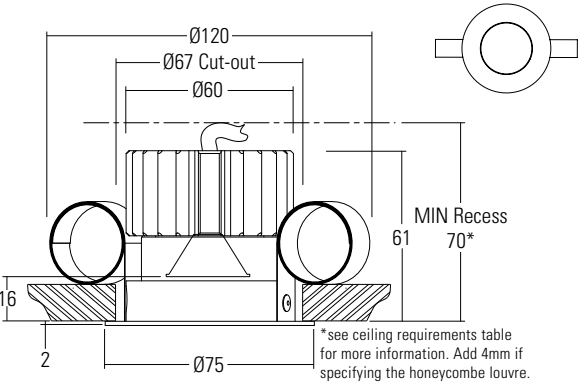
LED	1 x Cree CXB 1310	
Max drive current	700mA	
Max LED power*	14W	
Colour temperature	3000K	5000K
CRI (typical)	93	80
Delivered lumens (L ₁₀₀)	901	1107
Lumens per circuit watt	68	83

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

DIMENSIONS AND FIXING OPTIONS

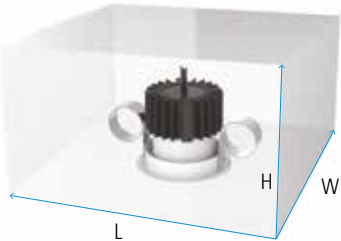
Dimensions in mm

Supplied as standard with constant force springs which are suitable for the majority of installations. They are particularly well suited to delicate surfaces.



CEILING REQUIREMENTS

Ceiling requirements can vary but the minimum ceiling void volume must be adhered to. The minimum possible ceiling depth is 70mm. The volumes below are presented as L x W x H.



Output current	Minimum ceiling void dimension requirements (Lmm x Wmm x Hmm)	Minimum Ceiling void volume	
		cm ³	Litre(s)
LD1090-350	120 x 120 x 70 (74 with /HL)	1008	1
LD1090-500	140 x 140 x 70 (74 with /HL)	1372	1.3
LD1090-700	200 x 200 x 70 (74 with /HL)	2800	2.8

Note: At 700mA the minimum dimension between a wall, within the ceiling void and the edge of the fitting must be 70mm.

ORDER CODES AND OPTIONS

Product Code	LED Colour	Beam Angle	IP Rating	Accessory	Finish
LD1090-350 -500 -700	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Example: LD1090-500 / LW30 / WB / IP40 / HL / White					

PRODUCT CODES WITH OUTPUT OPTIONS

7W LED at 350mA	LD1090-350
10W LED at 500mA	LD1090-500
14W LED at 700mA	LD1090-700

LED COLOUR OPTIONS

	SUFFIX
Extra Warm White (2700K)	/LW27
Warm White (3000K)	/LW30
White (4000K) - on request	/LW40
Cool White (5000K)	/LW50

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

BEAM / LENS ANGLE OPTION

19° narrow spot	/NB
28° medium	/MB
41° wide	/WB

IP RATING

IP40	/IP40
IP65	/IP65

ACCESSORY

Honeycombe louvre	/HL36
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FINISH OPTIONS

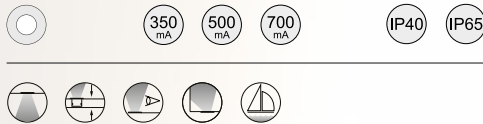
Paint finish white (RAL 9016) / black / RAL
(Custom bronze / brass wet spray paint colours available, please see our finishes guide on page 250)

LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers (please see page 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available

LD1092

SHALLOW RECESSED LOW GLARE
ADJUSTABLE LED DOWNLIGHT WITH
BLACK BAFFLE



The LD1092 is part of a range of ultra shallow, high power downlights designed to fit into ceilings with a minimal recess depth. The adjustable, compact, high quality downlight delivers in excess of 900lm light output making it ideal for general downlighting, as well as wall washing and column lighting applications. Glare control has been improved via the use of a black internal baffle (other finishes are available). This fitting is rated at IP40 as standard, but can be specified as IP65 for wet/humid areas including bathrooms and spas. Careful LED selection and extensive thermal testing and development time has resulted in a product that offers huge light output, from a very compact, shallow fitting. A minimalistic design ensures it complements most interior project styles.



Product: LD1092

KEY FEATURES

- > Internal baffle system provides increased glare control
- > Specially designed for ceilings with a minimal recess depth - only 70mm required
- > High power 900lm output
- > 93 CRI Cree LED
- > Recessed LED and optic for reduced glare
- > Single optic produces a very consistent beam, no multiple shadows
- > High quality, machined, anodised aluminium components
- > IP65 option for wet areas including bathrooms and spas
- > Constant force springs make this fitting suitable for delicate mounting surfaces



ACCESSORIES

/HL36
Honeycombe louvre for reduced glare. Please note this will increase the height of the fitting by 4mm.



IP65 RATED VERSION

/IP65
For wet areas including spas, bathrooms and showers the LD1090 can be specified as IP65. This comes with an additional glass and all parts are anodised.

SPECIFICATION

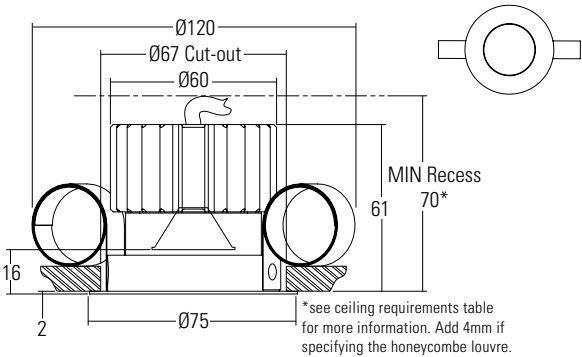
LED	1 x Cree CXB 1310	
Max drive current	700mA	
Max LED power*	14W	
Colour temperature	3000K	5000K
CRI (typical)	93	80
Delivered lumens (L ₁₀₀)	901	1107
Lumens per circuit watt	68	83

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

DIMENSIONS AND FIXING OPTIONS

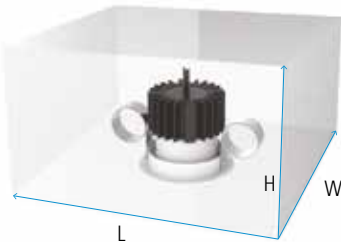
Dimensions in mm

Supplied as standard with constant force springs which are suitable for the majority of installations. They are particularly well suited to delicate surfaces.



CEILING REQUIREMENTS

Ceiling requirements can vary but the minimum ceiling void volume must be adhered to. The minimum possible ceiling depth is 70mm. The volumes below are presented as L x W x H.



Output current	Minimum ceiling void dimension requirements (Lmm x Wmm x Hmm)	Minimum Ceiling void volume	
		cm ³	Litre(s)
LD1092-350	120 x 120 x 70 (74 with /HL)	1008	1
LD1092-500	140 x 140 x 70 (74 with /HL)	1372	1.3
LD1092-700	200 x 200 x 70 (74 with /HL)	2800	2.8

Note: At 700mA the minimum dimension between a wall, within the ceiling void and the edge of the fitting must be 70mm.

ORDER CODES AND OPTIONS

Product Code	LED Colour	Beam Angle	IP Rating	Accessory	Finish
LD1092-350 -500 -700	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Example: LD1092-500 / LW30 / WB / IP40 / HL / White					

PRODUCT CODES WITH OUTPUT OPTIONS

7W LED at 350mA	LD1092-350
10W LED at 500mA	LD1092-500
14W LED at 700mA	LD1092-700

LED COLOUR OPTIONS

	SUFFIX
Extra Warm White (2700K)	/LW27
Warm White (3000K)	/LW30
White (4000K) - on request	/LW40
Cool White (5000K)	/LW50

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

BEAM / LENS ANGLE OPTION

19° narrow spot	/NB
28° medium	/MB
41° wide	/WB

IP RATING

IP40	/IP40
IP65	/IP65

ACCESSORY

Honeycombe louvre	/HL36
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FINISH OPTIONS

Bezel - Paint finish white (RAL 9016) / black / RAL
Baffle - Paint finish black (Standard), other finishes are available on request
(Custom bronze / brass wet spray paint colours available, please see our finishes guide on page 250)

LED DRIVERS

Use with 350mA, 500mA or 700mA constant current LED drivers (please see page 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available

LD1210

EXTERIOR LOW GLARE LED DOWNLIGHT

350

mA

500

mA

700

mA

IP67



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



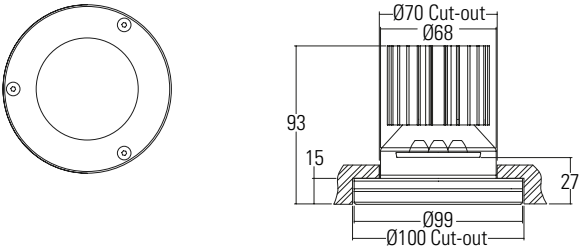
SPECIFICATION

LED	6 x Cree XPG2	
Max drive current	700mA	
Max LED power*	14W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L ₁₀₀)	924	1122
Lumens per circuit watt	67	81

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

DIMENSIONS

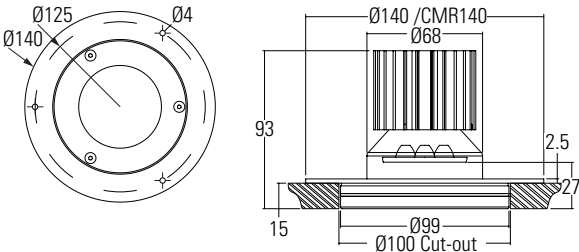
Dimensions in mm



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	Accessory	Finish
LD1210-350 -500 -700	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Example: LD1210-350 / LW30 / MB / CMR140 / Polished Stainless Steel				

PRODUCT CODES WITH OUTPUT OPTION	
7W LED at 350mA	LD1210-350
10W LED at 500mA	LD1210-500
14W LED at 700mA	LD1210-700

LED COLOUR OPTIONS	SUFFIX
Super warm white (2200K)	/LW22
Extra warm white (2700K)	/LW27
Warm white (3000K)	/LW30
White (4000K) on request	/LW40
Cool white (5000K)	/LW50
*Other LED colour temperatures are available. Please speak to a member of our sales team.	

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 (please see page 232)	
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available	

LD1220

EXTERIOR LOW GLARE ADJUSTABLE LED DOWNLIGHT



350

mA

500

mA

700

mA

IP54

IP67



LD1220 is a very powerful, low glare, exterior rated, adjustable downlight. 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.



Design: Lighting Design International | Project: Wisp

KEY FEATURES

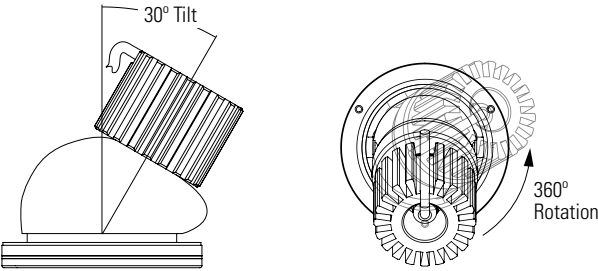
- > LED and lens assembly recessed within a black anodised body for reduced glare
- > Lockable tilt of up to 30° and 360° rotation
- > Innovative flexible 'boot' which allows adjustment whilst maintaining IP rating
- > Fixing ring accessory allows flush mounting into ceiling
- > High output 6 LED cluster 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 XPG2	
Max drive current	700mA	
Max LED power*	14W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L ₁₀₀)	924	1122
Lumens per circuit watt	67	81

**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!

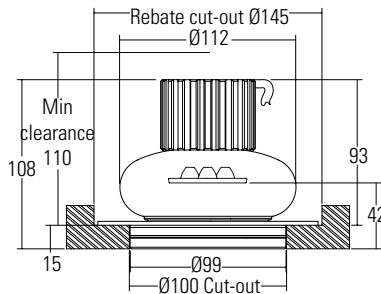
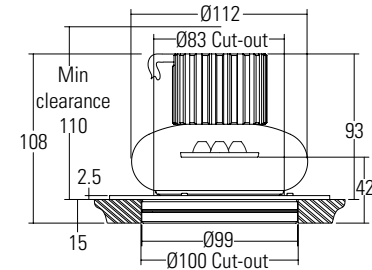
Why use the ceiling mount ring?

- > 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:

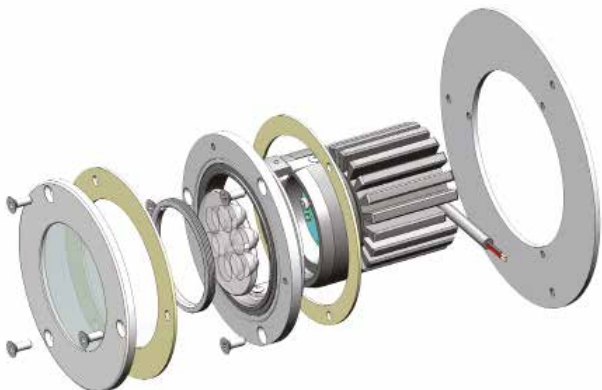
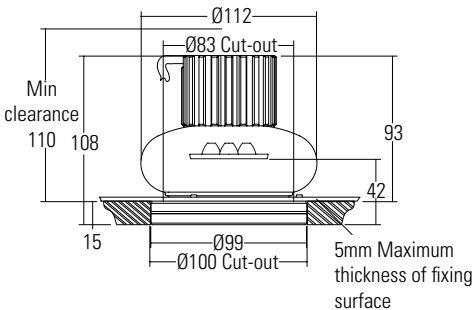
- > If this surface is 15mm in thickness then the ceiling ring can be fixed directly to the back of it
- > If the surface is thicker than 15mm then a rebate will need to be created to guarantee the LD1220 sits flush with the front surface



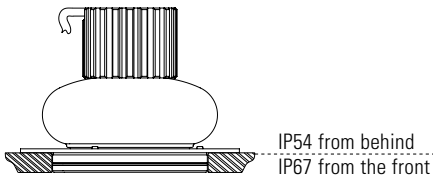
Fixing directly into mounting surface

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



IP RATING



ORDER CODES AND OPTIONS

Product Code	LED Colour	Beam Angle	Accessory	Finish
LD1220-350 -500 -700				
Example: LD1220-350 / LW30 / MB / CMR140 / Polished Stainless Steel				

PRODUCT CODES WITH OUTPUT OPTION

7W LED at 350mA	LD1220-350
10W LED at 500mA	LD1220-500
14W LED at 700mA	LD1220-700

LED COLOUR OPTIONS

Super warm white (2200K)	SUFFIX /LW22
Extra warm white (2700K)	/LW27
Warm white (3000K)	/LW30
White (4000K) on request	/LW40
Cool white (5000K)	/LW50
*Other LED colour temperatures are available. Please speak to a member of our sales team.	

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 (please see page 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available

LD242

YACHT SPREADER LED LIGHT

350

mA

500

mA

700

mA

IP68

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.



Design: Hall Spars Product: LD242

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

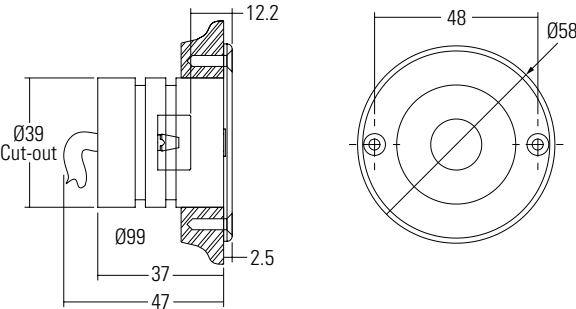
LED	1 x Cree XPG2	
Max drive current	700mA	
Max LED power*	2.4W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens (L ₁₀₀)	164	200
Lumens per circuit watt	68	83

*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
LD242-350 -500 -700	<input type="text"/>	<input type="text"/>	<input type="text"/>
Example: LD242-350 / LW30 / MB / Hard anodised			

PRODUCT CODES WITH OUTPUT OPTION

1.2W LED at 350mA	LD242-350
1.7W LED at 500mA	LD242-500
2.4W LED at 700mA	LD242-700

LED COLOUR OPTIONS

LED COLOUR OPTIONS	SUFFIX
Super warm white (2200K)	/LW22
Extra warm white (2700K)	/LW27
Warm white (3000K)	/LW30
White (4000K) on request	/LW40
Cool white (5000K)	/LW50
Blue	/LB
Green	/LG
Red	/LR
Amber	/LA

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

BEAM / LENS ANGLE 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 (please see page 232)
Switched, 0-10V, 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 for LightGraphix, which adds a slight frost for an even, diffused wash. Ideal for a range of architectural applications that include steps and small niche details.



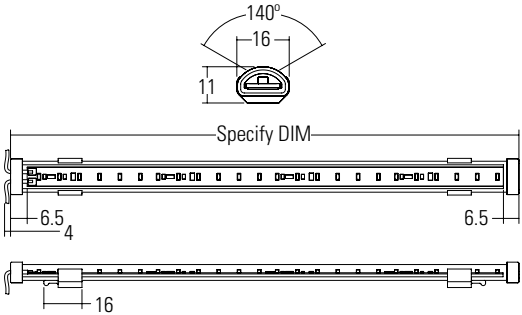
Design: Brilliant Lighting Project: Private residence Product: LD11

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

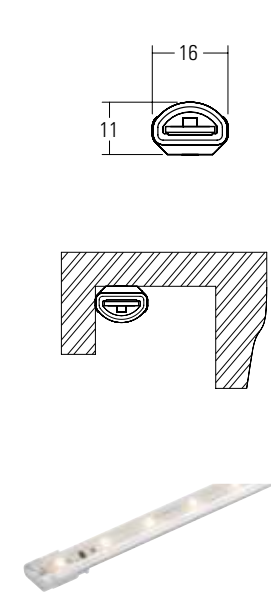
LED OUTPUT OPTIONS >	LG500 500 lm/m		SHORT 800 lm/m		RGB ECO 180 lm/m
Applications	 Highlighting architectural details, steps		 Same applications as Eco but with increased output and closer pitch LEDs		 Colour change
Description	500 lm tape		Short pitch tape		Eco RGB tape
Colour temperature	2200K / 2500K / 2700K		2400K / 2700K / 3000K	4000K / 5000K	-
Delivered lumens / m	480lm/m	520lm/m	800lm/m	850lm/m	180lm/m
Watts / m	3.9W/m		8.7W/m		6.5W/m
Lumens per watt	128lm/w		92lm/w	98lm/w	-
Voltage	24V DC				
CRI (typical)	80+				-

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

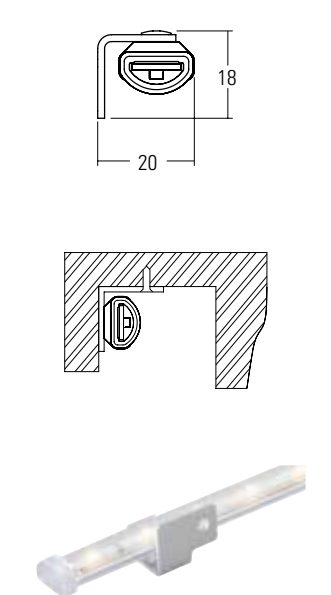
Please see our website for more detailed technical information and photometric files

FIXING OPTIONS

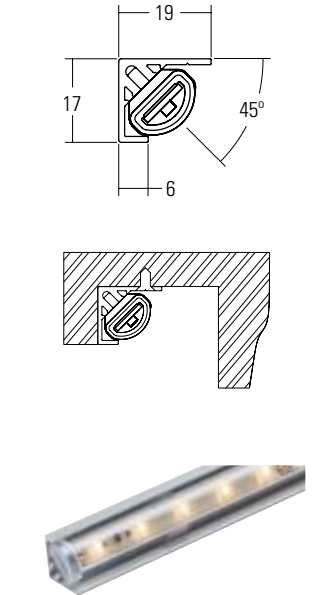
/SC - Flat fixing clip



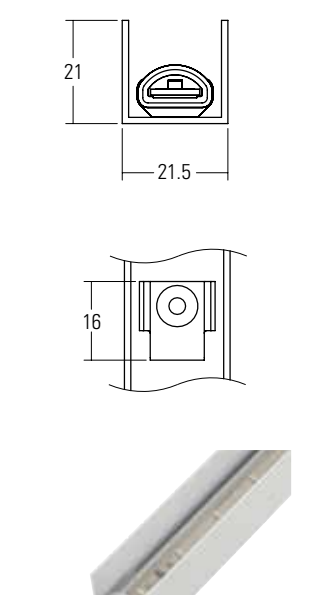
/LBM - 'L' bracket mounting. Comes with fixing clips attached.



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



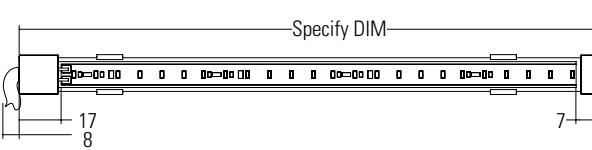
/E2121 - U channel is supplied in white as standard, and with clips attached. It is useful for details where glare is an issue or in details that require the LD11 to be hidden.



Dimensions in mm

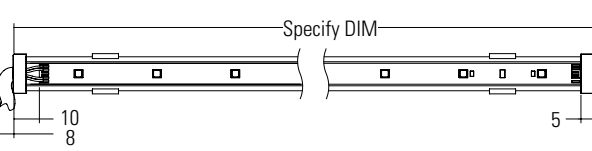
IP67 RATED

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

Dimensions below apply to the IP54 RGB variant. 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
LD11					
Example: LD11 / Eco / LW30 / SC / IP54 / 2000mm					

PRODUCT CODES WITH OUTPUT OPTION			SUFFIX
LG500	500lm/m		/LG500
Short	800lm/m		/Short
RGB Eco	180lm/m		/RGB Eco

LED WHITE COLOUR OPTIONS		
LG500		
Candle White (2200K)		/LW22
Super warm white (2500K)		/LW25
Extra warm white (2700K)		/LW27
Warm white (3000K)		/LW30
White (4000K)		/LW40

Short		
Super warm white (2400K)		/LW24
Extra warm white (2700K)		/LW27
Warm white (3000K)		/LW30
Cool White (4000K)		/LW40
Cool White (5000K)		/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 242)		
Switched, 0-10V, DMX, DALI and Mains 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.



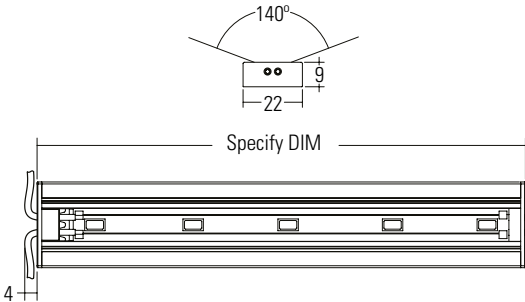
Design: Maurice Brill Lighting Project: 20 Fenchurch Street Product: LD22

KEY FEATURES

- > Choice of white LED outputs depending on the application, as well as RGB and tunable white
- > 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 it to be installed into a wide variety of details
- > 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
- > Available with Switched, 1-10V, DMX or Dali drivers

DIMENSIONS

Dimensions in mm



SPECIFICATION

LED OUTPUT OPTIONS >	LG500 500 lm/m		LG1200 1200 lm/m		LG2000 2000 lm/m		RGB 435 lm/m	TW2000 2000lm/m
Description	500 lm tape		1200lm tape		2000lm tape		RGB tape	Tunable white
Colour temperature*	2200K / 2500K / 2700K	3000K / 4000K	2000K / 2400K / 5000K	2700K / 3000K / 4000K	2000K / 2400K / 5000K	2700K / 3000K / 4000K	-	2700K + 6500K
CRI (typical)	80+		80+	90+	80+	90+	-	80+
Delivered lumens / m	480lm/m	520lm/m	1200lm/m		2000lm/m		435lm/m	2000lm/m
Watts / m	3.9W/m		10.4W/m		18W/m		18W/m	18.5W/m
Lumens per watt	128lm/w		113lm/w		111lm/w		24.1lm/w	108lm/w
Voltage (V)	24V DC							

See our website for more detailed technical information and photometric files



Design: Spectron Project: Private Residence Product: LD22

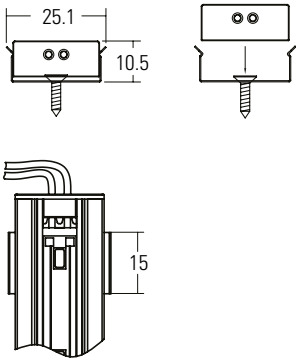


Design- Light + Design Project- Mandarin Oriental Product- LD22

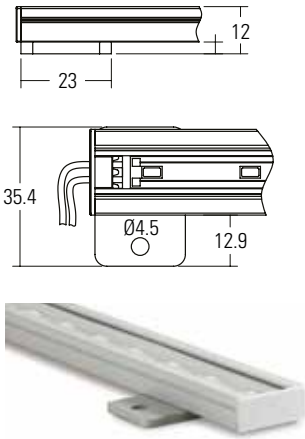
DIMENSIONS AND FIXING OPTIONS

Dimensions in mm

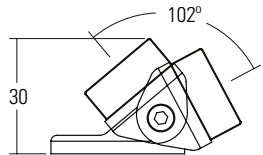
/SC - Flat fixing clip



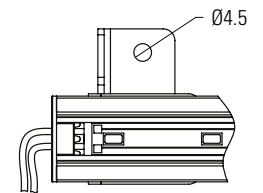
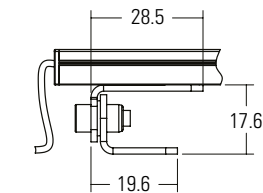
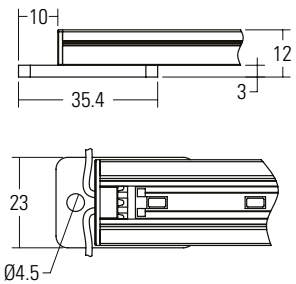
/BSM - Bracket side mounting



/ABM - Adjustable bracket mounting



/BEM - Bracket end mounting (max 1m)



COVER OPTIONS

Frosted cover diffuses the light source and softens the beam edges

/CC - Clear cover

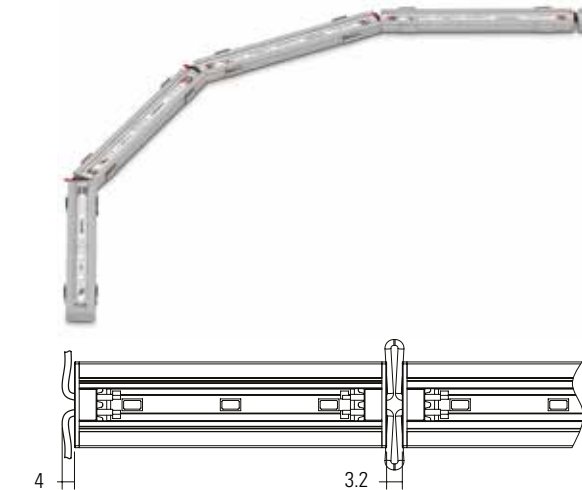


/FC - Frosted cover



LINKED SECTIONS

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 / LG1200 / LW30 / CC / SC / IP40 / 2000mm						

LED OUTPUT OPTION		SUFFIX
LG500	500lm/m	/LG500
LG1200	1200lm/m	/LG1200
LG2000	2000lm/m	/LG2000
RGB	475lm/m	/RGB
TW2000	2000lm/m	/TW2000

LED COLOUR OPTIONS	
LG500	
Candle White (2200K)	/LW22
Super warm white (2500K)	/LW25
Extra warm white (2700K)	/LW27
Warm white (3000K)	/LW30
White (4000K)	/LW40

LG1200 + LG2000	
Candle White (2200K)	/LW20
Super warm white (2400K)	/LW24
Extra warm white (2700K)	/LW27
Warm white (3000K)	/LW30
White (4000K)	/LW40
Cool White (5000K)	/LW50

TW2000	
Tunable White - 2700K + 6500K	/LW27 + LW65

COVER OPTIONS	
Clear cover	/CC
Frosted cover	/FC

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

IP OPTIONS	
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 242)	
Switched, 0-10V, DMX, DALI and Mains 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 such as step details. LD Flexi is not intended for permanent underwater use.

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 2800K which uses 2200K LED tape.



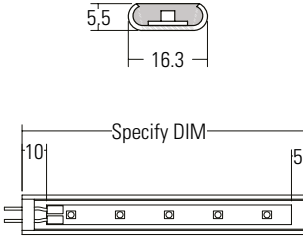
Product: LD Flexi / LW30

KEY FEATURES



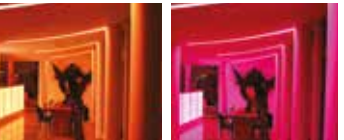
- > Choice of LED outputs depending on the application, including RGB
- > Specially designed PVC extrusion which is robust but very flexible with excellent resistance to chemical attack
- > LEDs are encapsulated in an optically clear UV resistant polyurethane resin
- > Fixing is by stainless steel fixing 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
- > Lengths are custom made to suit to a maximum of 3015mm**
- > Not suitable for permanent underwater use

DIMENSIONS

Dimensions in mm



SPECIFICATION

LED OUTPUT OPTIONS >	LG500 500 lm/m		SHORT 800 lm/m		RGB ECO 180 lm/m
Applications	 Highlighting architectural details, steps		 Same applications as Eco but with increased output and closer pitch LEDs		 Colour change
Description	500lm tape		Short pitch tape		RGB Eco tape
Colour temperature	2800K (2200K)* / 3100K (2500K)* / 3300K (2700K)*	3600K (3000K)* / 4600K (4000K)*	3000K (2400K)* / 3300K (2700K)* / 3600K (3000K)*	4600K (4000K)* / 5600K (5000K)*	-
Delivered lumens / m	480lm/m	520lm/m	800lm/m	850lm/m	180lm/m
Watts / m	3.9W/m		8.7W/m		6.5W/m
Lumens per watt	128lm/w		92lm/w	98lm/w	-
Voltage (V)	24V DC				
CRI	80+				-

* Resin used within the LD Flexi causes a 600K shift. Bracketed temperature indicates reading before colour shift.

** 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

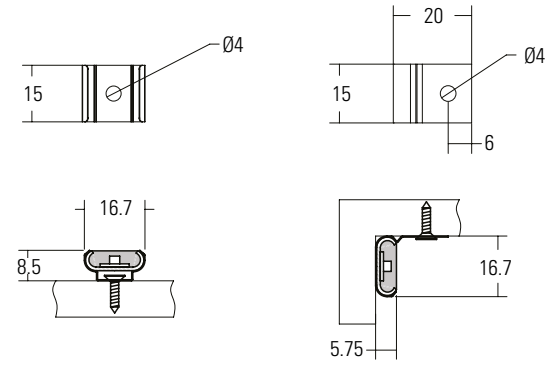


FIXING OPTIONS

Dimensions in mm

/FFC - Flat fixing clip

/AFC - Angled fixing clip

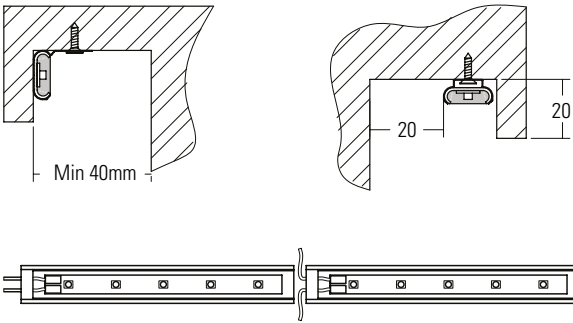


SUGGESTED MOUNTING DETAILS

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
LD Flexi	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Example: LDFlexi / LG500 / LW33 / AFC / 2000mm				

PRODUCT CODES WITH OUTPUT OPTION			SUFFIX
LG500	500lm/m		/LG500
Short	800lm/m		/Short
RGB Eco	180lm/m		/RGB Eco

LED WHITE COLOUR OPTIONS		
LG500		
Candle White (2800K)		/LW28
Warm white (3100K)		/LW31
Warm white (3300K)		/LW33
White (3600K)		/LW36
Cool white (4600K)		/LW46





Short		
Warm white (3000K)		/LW30
Warm white (3300K)		/LW33
White (3600K)		/LW36
Cool White (4600K)		/LW46
Cool White (5000K)		/LW56










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

LED DRIVERS		
Use with 24V constant voltage LED drivers (please see page 242)		
Switched, 0-10V, DMX, DALI and Mains 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.



Product: LD Line 15 / LW30 / IP54

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

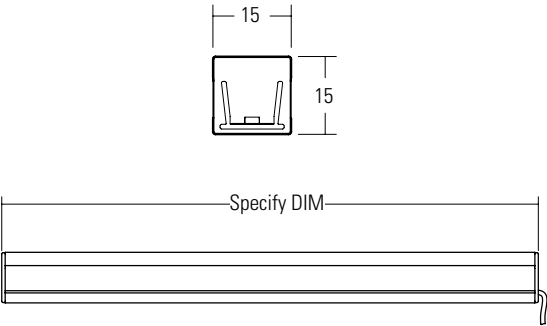
LED	Short pitch LED	
Colour temperature	2400K / 2700K / 3000K	4000K / 5000K
Delivered lumens / (L ₁₀₀)	490lm/m	530lm/m
Watts/m	8.7W/m	
Lumens per watt	56lm/w	61lm/w
Voltage (V)	24V DC	
CRI (typical)	80+	

* 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

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



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



/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.



/LBM - L brackets change the fixing location to the side of the product, instead of underneath. This is particularly useful in step details where they may not be room to fix up into the step. Supplied with the fixing clips attached.



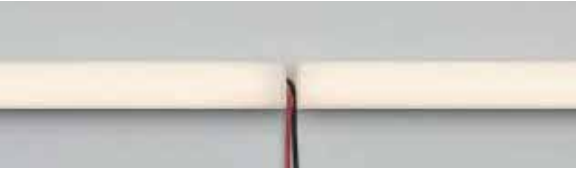
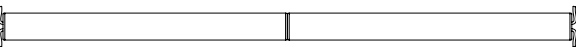
Dimensions in mm

MOUNTING DETAIL NOTES

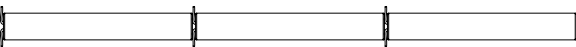
End caps are only 1mm thick, and the material matches the linear profile, enabling a very neat join between two non-cable feed ends. The images show the IP54 rated version.



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



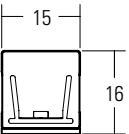
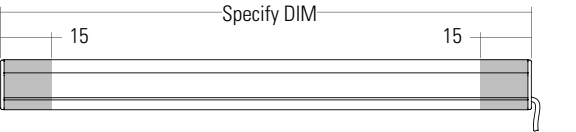
If more than 2 lengths are used (over 8m run) then they would need to be arranged as per above.



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

PRODUCT CODES WITH OUTPUT OPTION _____ SUFFIX
Short 490lm/m /Short

LED COLOUR OPTIONS _____
Super Warm White (2400K) /LW24
Extra warm white (2700K) /LW27
Warm white (3000K) /LW30
White (4000K) /LW40
Cool white (5000K) /LW50

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

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

LED DRIVERS _____
Use with 24V constant voltage LED drivers (please see page 242)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available



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

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.

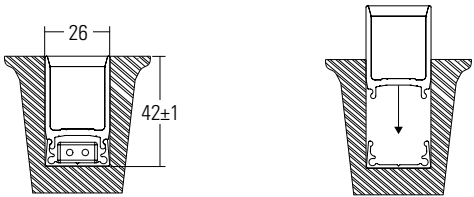


KEY FEATURES

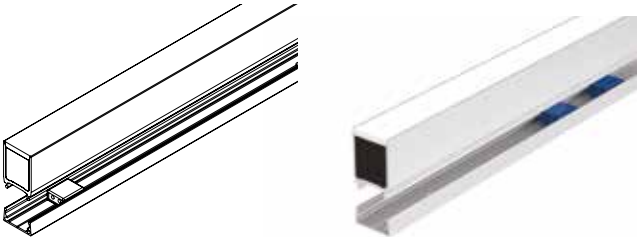
- > Completely homogeneous line of light
- > No spotting of LEDs
- > Multiple lengths can be installed end to end for a continuous line of light
- > Custom made lengths from 56mm to 1956mm
- > 50mm cut increments
- > Minimal recess depth
- > Surface or recessed mounted
- > First fix channel
- > Easy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

FIXING AND MOUNTING DETAILS

Dimensions in mm

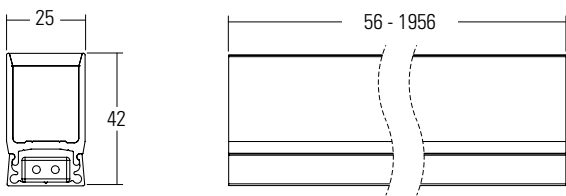


The system has two parts. A first fix aluminium channel is screwed to the mounting surface, allowing the main body to clip into this.



DIMENSIONS

Dimensions in mm



SPECIFICATION

LED	Short LED		RGBW
Colour temperature	2400K / 2700K / 3000K	4000K / 5000K	RGB + 3000K (2200K)*
Delivered lumens / (L ₁₀₀)**	300lm/m	400lm/m	600lm/m
Watts/m	8.9W/m		19.9W/m
Voltage (V)	24V DC		
CRI (typical)	80+		

*RGBW tape is in direct contact with the resin which causes the white LED to shift in colour by 800K. Bracketed temperature indicates reading before colour shift. With the white LED LD Line 25 this is not an issue as it is encased in a protective housing so there is no colour shift.
** Lumen data is estimated. Please check website for tested output results

Please see our website for more detailed technical information



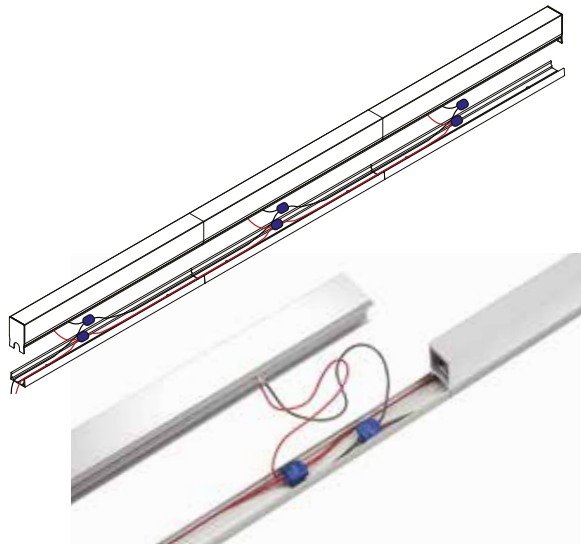
Design: Light Bureau Project: 10 Bloomsbury Way Product: LD Line 25 Exterior



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

WIRING

LD Line 25 Exterior uses a bus wire to connect each length to the power supply. The supplied pair of wires is laid into the first fix channel to the end of the run. Using the supplied IP rated 3M connectors, each LED length is connected to the bus wire as they are installed. 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
LD Line 25 Exterior			
Example: LD Line 25 Exterior / Short / LW30 / 1006mm			

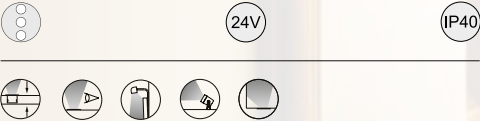
LED LENGTH CODE		SUFFIX
Short	300lm/m	/Short
RGBW	600 lm/m	/RGBW

LED WHITE COLOUR OPTIONS		
Super Warm White (2400K)		/LW24
Extra warm white (2700K)		/LW27
Warm white (3000K)		/LW30
White (4000K) - on request		/LW40
Cool white (5000K)		/LW50

LED DRIVERS
Use with 24V constant voltage LED drivers (please see page 242)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available

LD PICTURE LIGHT

MINIATURE 24V LED PICTURE LIGHT



LD picture lights are designed to light paintings and artwork effectively; which means with adequate light and good colour rendering with no UV. LD Picture lights now come with 90+ CRI LEDs, for even better colour rendering and even higher lumen output. Depending on the finishes specified, they will suit projects with either period or contemporary furnishings and décor.



Design: Brilliant Lighting Product: LD Picture Light

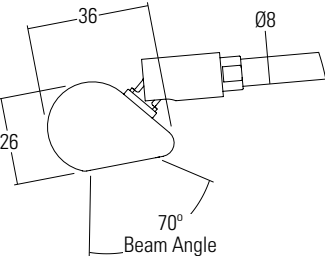
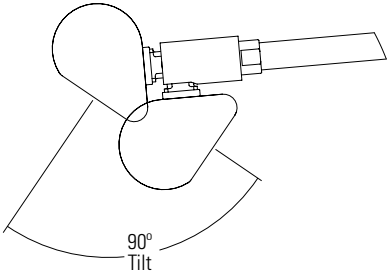
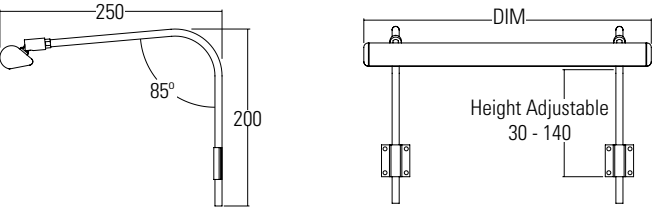
KEY FEATURES

- > Choice of LED tapes with higher outputs
- > 90+ CRI LED
- > Very slim profile for minimal viewing angles
- > Height adjustable with 90° tilt
- > 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
- > Frosted cover available for a more diffused wash



DIMENSIONS AND FIXING OPTIONS

Dimensions in mm



PRODUCT LENGTH	ARMS
230mm - 330mm	1
430mm - 1230mm	2
1330mm - 2130mm	3
2230mm - 3030mm	4

SPECIFICATION

LED OUTPUT OPTIONS >	LG1200 1200 lm/m		LG2000 2000 lm/m	
Description	1200lm tape		2000lm tape	
Colour temperature*	2000K / 2400K / 5000K	2700K / 3000K / 4000K	2000K / 2400K / 5000K	2700K / 3000K / 4000K
CRI (typical)	80+	90+	80+	90+
Delivered lumens / m	1200lm/m		2000lm/m	
Watts / m	10.4W/m		18W/m	
Lumens per watt	115lm/w		111lm/w	
Voltage (V)	24V DC			

See our website for more detailed technical information and photometric files



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



TXDTC24020DIM (20W), DALI (16W) - 1-10V / DALI dim, to suit standard double gang wall box



ORDER CODES AND OPTIONS

Product Code	LED	LED Colour	Cover	Finish
LD-PL***	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Example: LD-PL330 / LG2000 / LW30 / FC / White RAL 9001				

EXAMPLE PRODUCT LENGTH CODES

230mm - Single arm	LD-PL230
330mm - Single arm	LD-PL330
430mm	LD-PL430
530mm	LD-PL530
630mm	LD-PL630
Custom lengths up to 3030mm	LD-PL***

LED OUTPUT OPTIONS

	SUFFIX
LG1200 - 1200 lm/m - 10.4W/m	/LG1200
LG2000 - 2000 lm/m - 18W/m	/LG2000

LED COLOUR OPTIONS

	SUFFIX
Candle White (2000K) - LG1200 & LG2000 only	/LW20
Super Warm White (2400K) - LG1200 & LG2000 only	/LW24
Extra Warm White (2700K)	/LW27
Warm White (3000K)	/LW30
White (4000K)	/LW40
Cool White (5000K)	/LW50

COVER OPTIONS

Clear	/CC
Frosted	/FC

FINISH OPTIONS

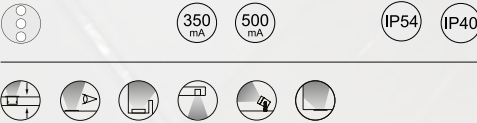
Paint finishes – Matt white RAL 9016, Cream white RAL9001, Matt black 9005, Antique bronze, Satin antique brass, Satin brass, Silver anodised
Special finishes – please discuss with our sales team

LED DRIVERS

Use with 24V constant voltage LED drivers (please see page 242)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available

LD26 & LD26A

HIGH POWER LINEAR REFLECTOR LED SYSTEM



LD26 is available 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.



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

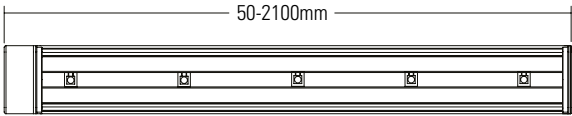
LED	Cree XPG2	
Max drive current	500mA	
Max LED power per metre*	34W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens / (L ₁₀₀)		
50mm spacing	2767	3361
75mm spacing	1798	2185
100mm spacing	1385	1681
Lumens per circuit watt	81	99

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

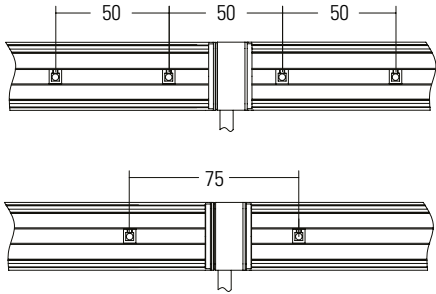
DIMENSIONS

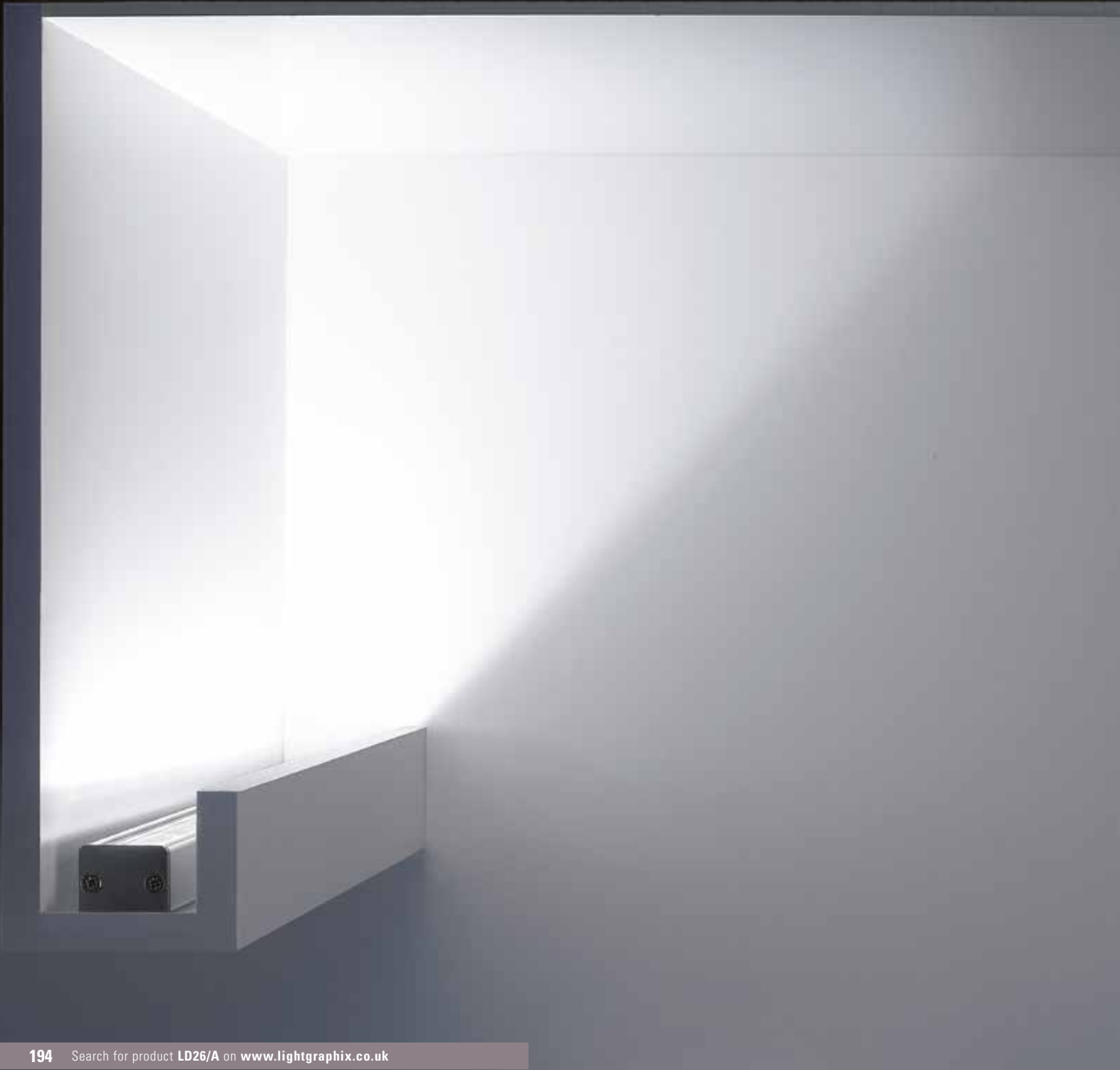
Dimensions in mm

Custom made lengths



LED spacing maintained over multiple lengths

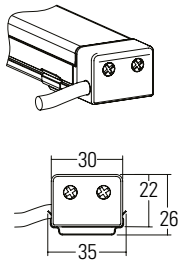




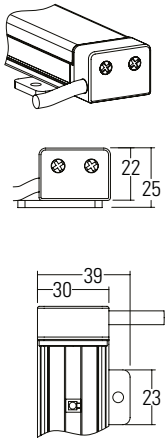
FIXING OPTIONS AND DIMENSIONS

Dimensions in mm

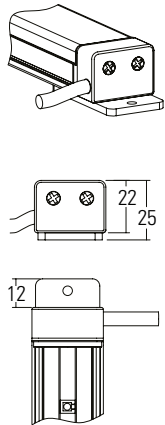
/SC - Spring Clip Fixing



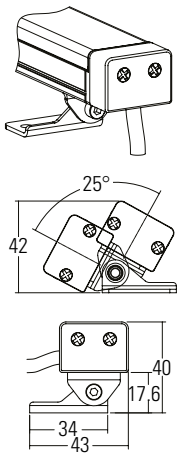
/BSM - Bracket Side Mounting



/BEM - Bracket End Mounting
Max 1000mm length



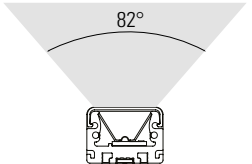
/ABM - Adjustable Bracket Mounting



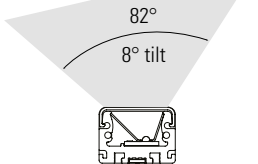
REFLECTOR OPTIONS

Dimensions in mm

LD26 - Symmetric



LD26A - Asymmetric



ORDER CODES AND OPTIONS

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

PRODUCT CODES WITH OUTPUT OPTION

1.2W 350mA	LD26(A)-350
1.7W 500mA	LD26(A)-500

LED COLOUR OPTIONS

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

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

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

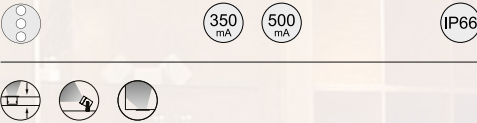
IP40 (internal use as standard)	/IP40
IP54 rated for moist environments	/IP54

LED DRIVERS

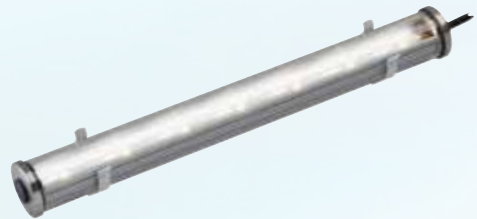
Use with 350mA or 500mA constant current LED drivers (please see page 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available

LD26 & LD26A IP66

HIGH POWER LINEAR REFLECTOR
LED SYSTEM



LD26 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 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°.



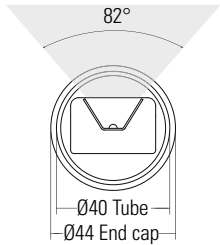
Product: LD26
Project: Four Seasons Hote, Amman
Design: Lighting Design International

KEY FEATURES

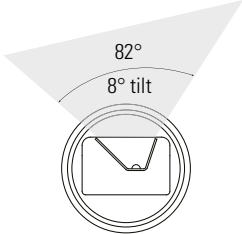
- > Superb continuous lighting capabilities
- > IP66 rated for bathrooms and showers
- > Reflectors focus the light to where it is needed
- > Custom made lengths as standard
- > High power for its compact size

REFLECTOR OPTIONS

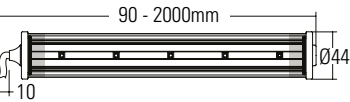
LD26 - Symmetric



LD26A - Asymmetric



Custom made lengths



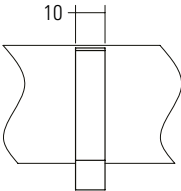
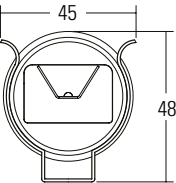
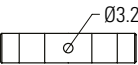
SPECIFICATION

LED	Cree XPG2	
Max drive current	500mA	
Max LED power per metre*	34W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens / (L ₁₀₀)		
50mm spacing	2767	3361
75mm spacing	1798	2185
100mm spacing	1383	1681
Lumens per circuit watt	81	99

*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
LD26 (A) -350 IP66 -500 IP66	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Example: LD26-500 IP66 / LW30 / 50 / SC / 2000mm				

PRODUCT CODES WITH OUTPUT OPTION

1.2W 350mA	LD26(A)-350 IP66
1.7W 500mA	LD26(A)-500 IP66

LED COLOUR OPTIONS

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

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

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 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available



LD30

HIGH POWER LINEAR REFLECTOR LED SYSTEM

350

mA

500

mA

IP40

The ultra slim profile of LD30 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.



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 XPG2	
Max drive current	500mA	
Max LED power per metre*	34W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens / (L ₁₀₀)		
50mm spacing	2800	3402
75mm spacing	1820	2211
100mm spacing	1400	1701
Lumens per circuit watt	82	100

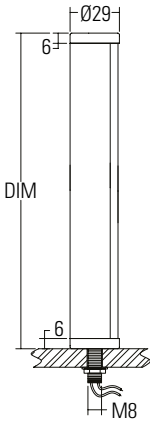
**LED wattage includes losses associated with using an 85% efficient driver
See website for more detailed technical information and photometric files*



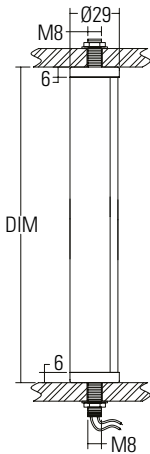
MOUNTING OPTIONS AND DIMENSIONS

Dimensions in mm

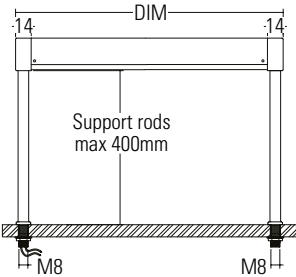
/M1 - Method 1 - Profile fixed from one end using an M8 all-thread and nut. Cable exit through all-thread. Specify Dim.



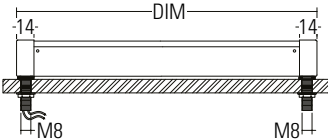
/M2 - Method 2 - Profile fixed from both ends using M8 all-thread and nut. Cable exit through all-thread and can be either end. Specify Dim.



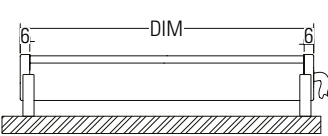
/M3 - Method 3 - Profile is mounted in a 'goal post' configuration. To direct the light output by 350° loosen M3 grub screws and rotate profile. Specify Dim and support rod length.



/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.



Product: LD30
Project: Harrods

ORDER CODES AND OPTIONS

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

PRODUCT CODES WITH OUTPUT OPTION	
1.2W 350mA	LD30-350
1.7W 500mA	LD30-500

LED COLOUR OPTIONS	SUFFIX
Super warm white (2200K)	/LW22
Extra warm white (2700K)	/LW27
Warm white (3000K)	/LW30
White (4000K) - on request	/LW40
Cool white (5000K)	/LW50
Blue	/LB
Green	/LG
Red	/LR
Amber	/LA
*Other LED colour temperatures are available. Please speak to a member of our sales team.	

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 232)	
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available	

LD30HR-24V

LINEAR LED HANGING RAIL

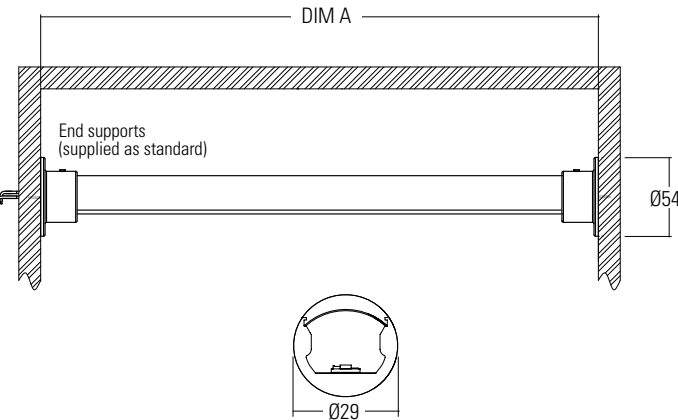




The ultra slim profile of the updated LD30HR creates a very neat way of illuminating clothes in a wardrobe. LD30HR-24V incorporates a 24V LED tape with very close pitch LEDs and an opal diffuser. This creates a very consistent, diffused wash of light onto the clothes below, with no spotting of LEDs. Due to the 24V conversion the LED hanging rail no longer requires multiple drivers, ensuring that savings are achieved on both costs and installation time. Manufactured from high quality, hard wearing extruded and machined aluminium parts this fitting is ideal for high usage environments such as hotels and cloakrooms. The system is custom made to the exact dimensions on site ensuring no gaps in the light output.

KEY FEATURES

- > Custom made lengths as standard to suit on site dimensions, max 3m
- > Ultra slim profile
- > No spotting of LEDs
- > 80+ CRI LEDs
- > Great colour rendering on the clothes below
- > Silver anodised finish recommended as this is the hardest wearing
- > Opal cover supplied as standard
- > 3mm tolerance built in allowing for adjustment on site



SPECIFICATION

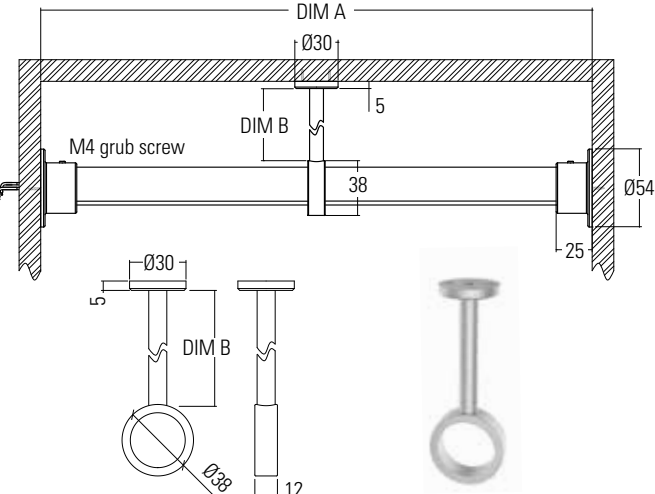
Description	Short pitch tape	
	2400K / 2700K / 3000K	4000K / 5000K
Colour Temperature	2400K / 2700K / 3000K	4000K / 5000K
Delivered lumens / m*	439lm/m	488lm/m
CRI (typical)	80+	
Lumens per watt*	50lm/w	56lm/w
Voltage (V)	24V DC	
Watts / m	8.7W/m	

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

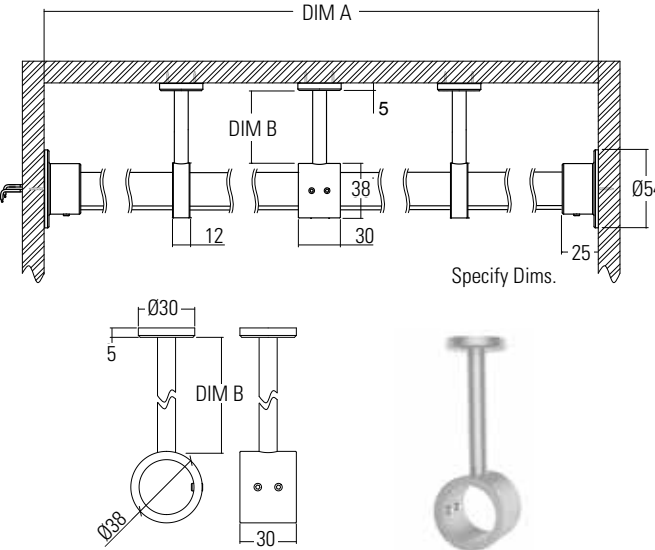
DIMENSIONS AND FIXING OPTIONS

Dimensions in mm

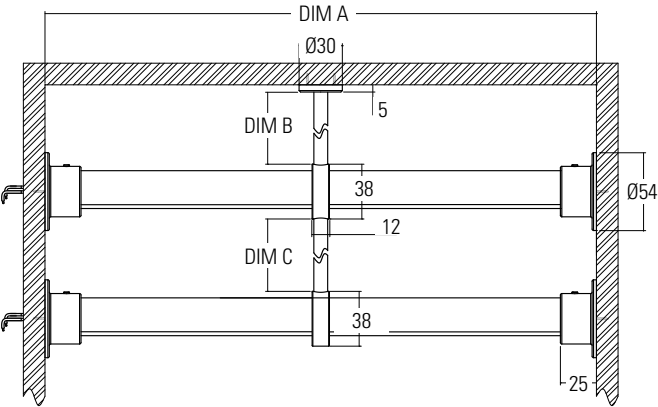
/CS - Centre support is required for lengths over 1.2m. Specify Dim A and B



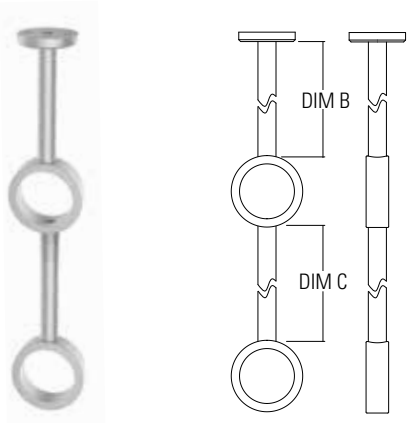
/CP - Coupler is required when the hanging rail exceeds 3m. In this case 2 lengths will be supplied and the coupler hides the join allowing up to a 6m hanging rail. Cable entry will be required at both ends. Specify Dim A and B



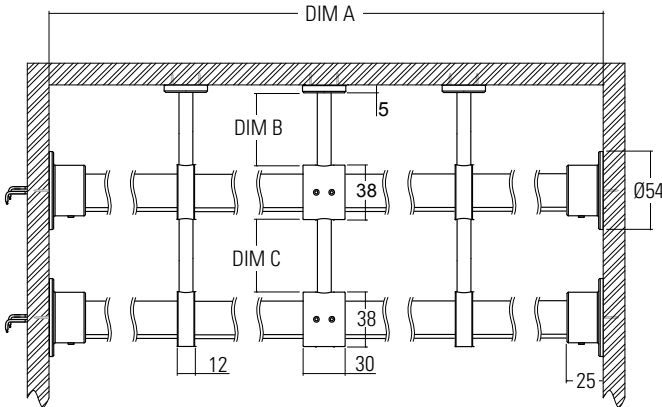
/CSD - Double centre support is required for two lengths over 1.2m. Specify Dim A, B and C



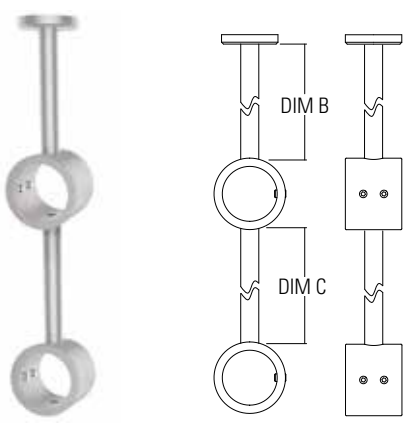
Cable entry is via the ends of the extrusion. (Dimensions in mm)



/CPD - Double coupler. Specify Dim A, B and C



Cable entry is via the ends of the extrusion. (Dimensions in mm)



DESIGN ADVICE

The LD30HR-24V requires various supports depending on the specified length of the fitting. A single centre support must be used every 1.2m. As the longest single length that can be supplied is 3m a coupler must be used when DIM A exceeds this.

DIM A (M)	SHORT PITCH TAPE
0 - 1.1	No support needed
1.2 - 2.4	1 central support
2.5 - 3	2 central supports

Example: Defined dimension is 3.4m. This will be supplied as two lengths of 1.7m. As these individual lengths are between 1.2m - 2.4m, one central supporting ring must be used per length. The image below depicts what the fitting would look like in this situation. Cable exits are from each end.



LD30HR-24V can support up to 20kg of evenly distributed weight.

ORDER CODES AND OPTIONS

Product Code	LED Colour	Fixing	Length (DIM A)	Finish
LD30HR-24				
Example: LD30HR-24 / LW30 / CS (DIM B = 250mm) / 1700mm / Silver anodised				

LED COLOUR OPTIONS	SUFFIX
Super Warm White (2400K)	/LW24
Extra Warm White (2700K)	/LW27
Warm White (3000K)	/LW30
White (4000K)	/LW40
Cool White (5000K)	/LW50

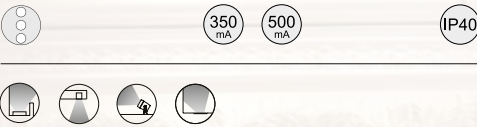
FIXING OPTION	
Central support (DIM B)	/CS
Double centre support (DIM B / DIM C)	/CSD
Coupler (DIM B)	/CP
Double coupler (DIM B / DIM C)	/CPD

FINISH OPTIONS	
Silver anodised (recommended)	
Black anodised	

LED DRIVERS	
Use with 24V constant voltage LED drivers. Please see page 232	
1-10V, DMX, DALI 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: Jucy 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!

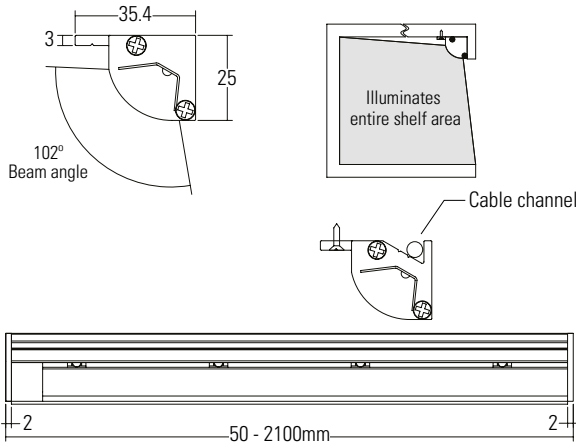
SPECIFICATION

LED	Cree XPG2	
Max drive current	500mA	
Max LED power per metre*	34W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens / (L ₁₀₀)		
50mm spacing	2800	3402
75mm spacing	1820	2211
100mm spacing	1400	1701
Lumens per circuit watt	82	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	LED Spacing	Cover	Length
LD32-350-500				
Example: LD32-500 / LW30 / 50 / CC / 1200mm				

PRODUCT CODES WITH OUTPUT OPTION

1.2W 350mA	LD32-350
1.7W 500mA	LD32-500

LED COLOUR OPTIONS

	SUFFIX
Super warm white (2200K)	/LW22
Extra warm white (2700K)	/LW27
Warm white (3000K)	/LW30
White (4000K) - on request	/LW40
Cool white (5000K)	/LW50

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

LED SPACING

50mm	/50
75mm	/75

COVER

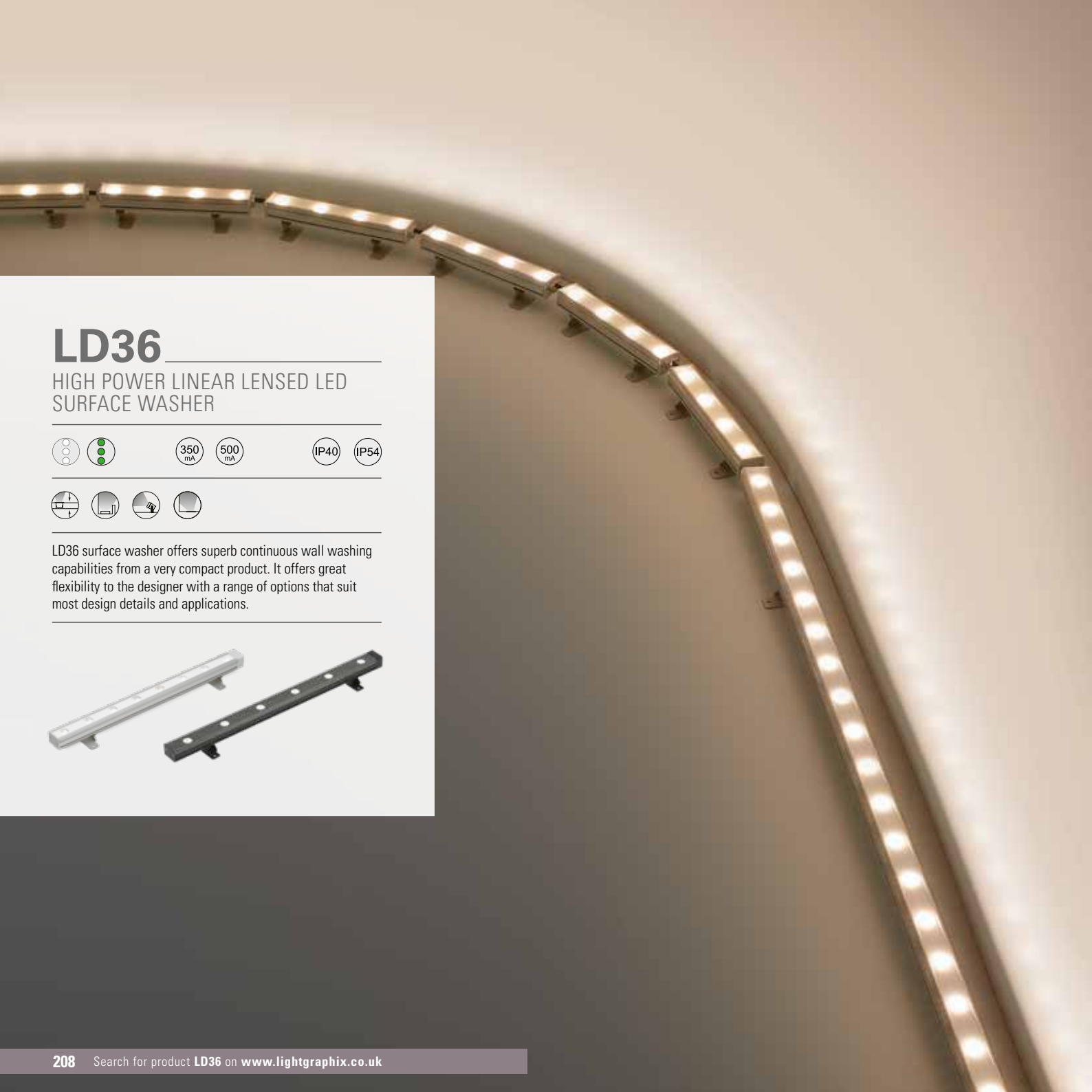
Clear cover (standard)	/CC
Frosted diffuser	/FD
Opal diffuser	/OD

LED DRIVERS

Use with 350mA or 500mA constant current LED drivers (please see page 232)
Switched, 0-10V, 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

350
mA

500
mA

IP40

IP54

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 XPG2	
Max drive current	500mA	
Max LED power per metre*	34W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens / (L ₁₀₀)		
50mm spacing	2818	3423
75mm spacing	1832	2225
100mm spacing	1409	1712
Lumens per circuit watt	83	101

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

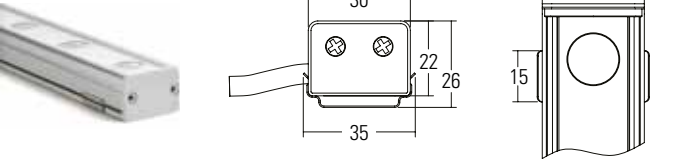


FIXING OPTIONS AND DIMENSIONS

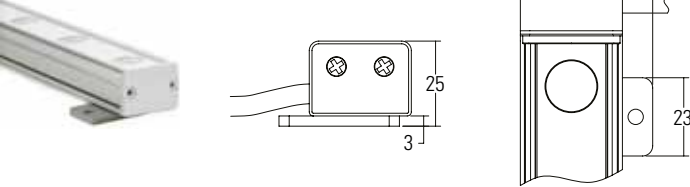
Dimensions in mm

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

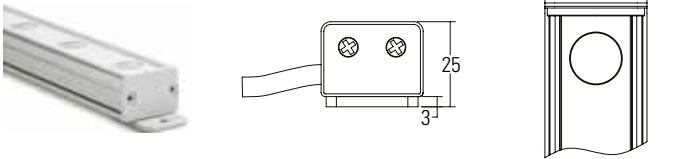


LINKED SECTIONS

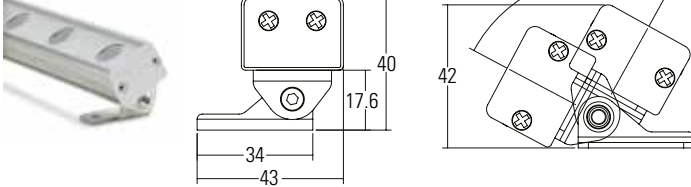
Around curves LD36 can be specified in smaller sections depending on the radius. These are hard wired together so the LED spacing is maintained.



/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.



ORDER CODES AND OPTIONS

Product Code	LED Colour	LED Spacing	Beam Angle	Product Colour	Fixing Option	IP rating	Access-sory	Length
LD36-350-500								
Example: LD36-500 / LW30 / 50 / OB / White / ABM / IP40 / GL36 / 1200mm								

PRODUCT CODES WITH OUTPUT OPTION	
1.2W LEDs at 350mA	LD36-350
1.7W LEDs at 500mA	LD36-500

LED COLOUR OPTIONS	SUFFIX
Super warm white (2200K)	/LW22
Extra warm white (2700K)	/LW27
Warm white (3000K)	/LW30
White (4000K) - on request	/LW40
Cool white (5000K)	/LW50
*Other LED colour temperatures are available. Please speak to a member of our sales team.	

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 232)	
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available	

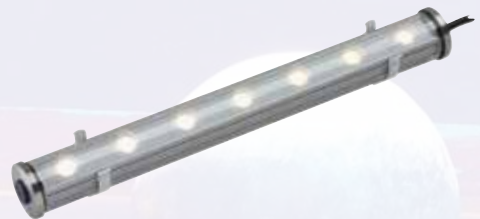
Project: Harrods Ice Cream Parlour Product: LD36

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 XXX.

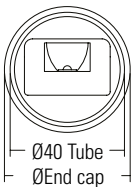


KEY FEATURES

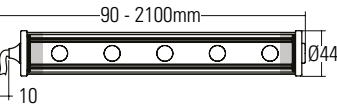
- > Excellent wall wash capabilities
- > Uses the latest in LED technology
- > High efficiency optics specially designed for LightGraphix guarantee excellent beam spread and shape
- > LED spacing of 50, 75 and 100mm are available, allowing cost savings with fewer LEDs and drivers whilst still achieving the desired effect
- > High power from compact size
- > Custom made lengths as standard, max 2.1m

DIMENSIONS

Dimensions in mm



Custom made lengths



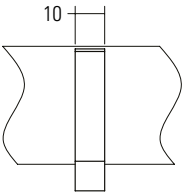
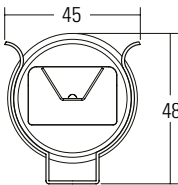
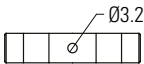
SPECIFICATION

LED	Cree XPG2	
Max drive current	500mA	
Max LED power per metre*	34W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens / (L ₁₀₀)		
50mm spacing	2818	3423
75mm spacing	1832	2225
100mm spacing	1409	1712
Lumens per circuit watt	83	101

*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
LD36 -350 IP66 -500 IP66	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Example: LD36-500 IP66 / LW30 / 50 / OB / White / SC / 1200mm						

PRODUCT CODES WITH OUTPUT OPTION

1.2W 350mA	LD36-350 IP66
1.7W 500mA	LD36-500 IP66

LED COLOUR OPTIONS

	SUFFIX
Super warm white (2200K)	/LW22
Extra warm white (2700K)	/LW27
Warm white (3000K)	/LW30
White (4000K) - on request	/LW40
Cool white (5000K)	/LW50
*Other LED colour temperatures are available. Please speak to a member of our sales team.	

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

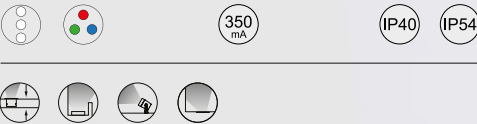
Spring clips	/SC
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LED DRIVERS

Use with 350mA or 500mA constant current LED drivers (please see page 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available

LD36 RGB

HIGH POWER LINEAR RGB LENSED
SURFACE WASHER



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

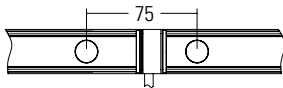
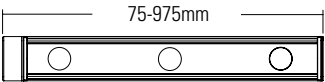
SPECIFICATION

LED	Cree XML
Max drive current	350mA
Max LED power per metre*	42W
Delivered lumens / (L ₁₀₀)	1712

**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

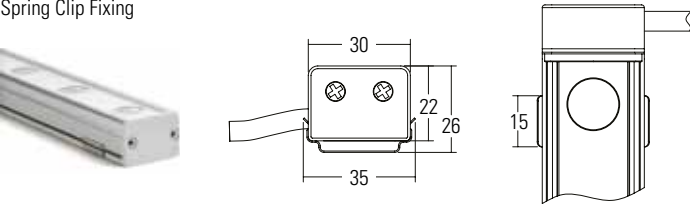


FIXING OPTIONS AND DIMENSIONS

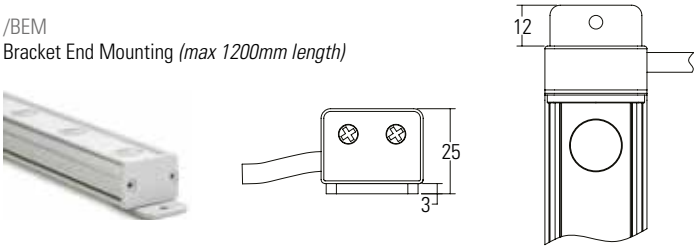
Dimensions in mm

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

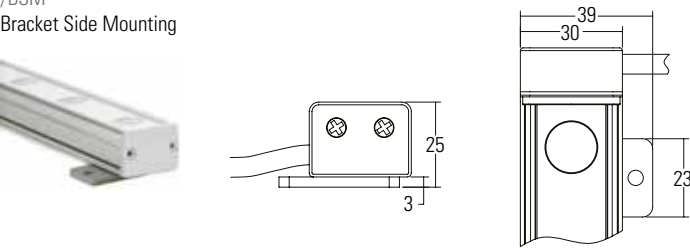
/SC
Spring Clip Fixing



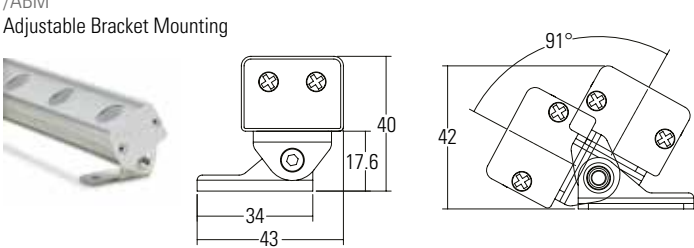
/BEM
Bracket End Mounting (max 1200mm length)



/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	Product Colour	Fixing Option	IP Rating	Accessory	Length
LD36RGB							
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 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available

LD38S & LD38C

EXTERIOR HIGH POWER LINEAR
LENSED LED SURFACE GRAZER AND
FLOOD LIGHT



The LD38 has been redesigned with an easy clean glass cover, which offers increased lumen output and quicker production times. It 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 and Tunable White; various mounting options, finishes and accessories. This 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
- > Short pieces can be made interlinked to accommodate curves
- > Lengths are custom made to suit to a maximum of 2.1 metres
- > Available with Switched, 0-10V, DMX or Dali drivers

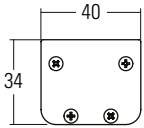
SPECIFICATION

LED	Cree XPG2	
Max drive current	700mA	
Max LED power per metre*	48W	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens per metre (L _{100'})		
50mm spacing	3920	4763
75mm spacing	2548	3096
100mm spacing	1960	2381
Lumens per circuit watt	57	99

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

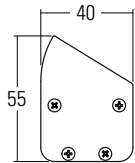
LD38S

Standard LD38

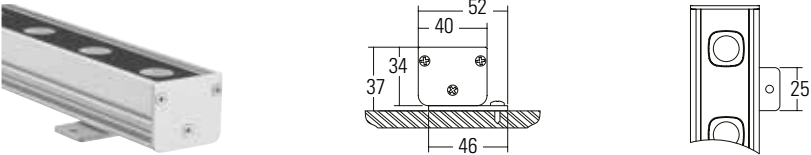


LD38C

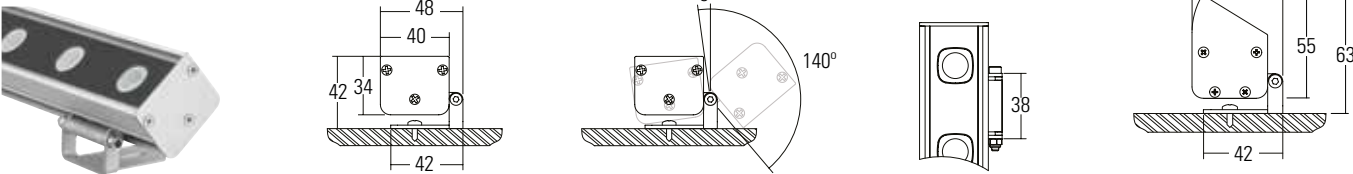
Integrated linear anti-glare cowl. Supplied with special end caps to further reduce glare from the sides.



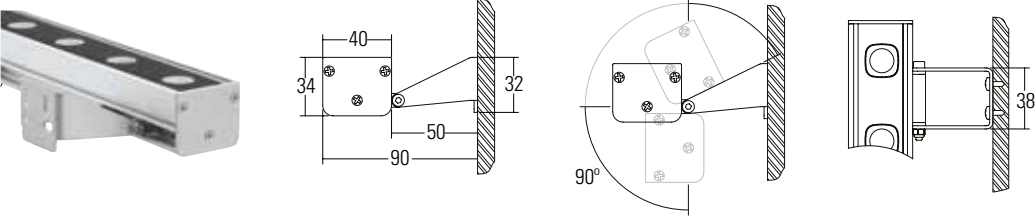
/BSM
Bracket Side Mounting



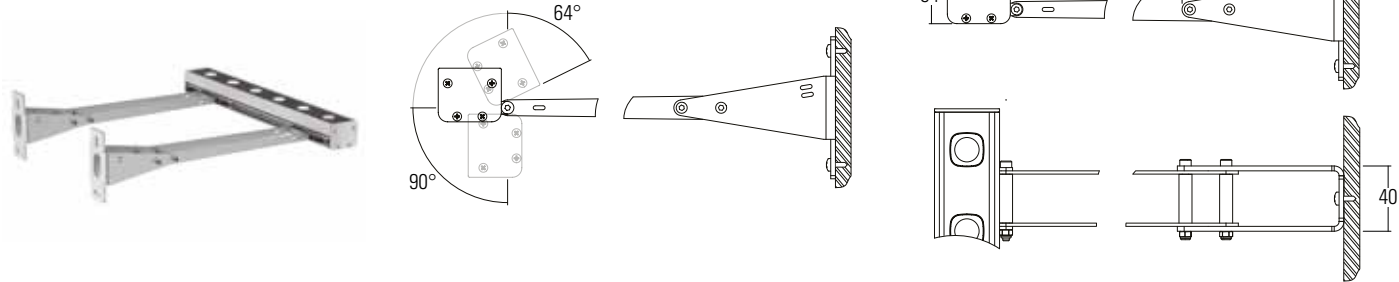
/ABM
Surface Adjustable Bracket Mounting



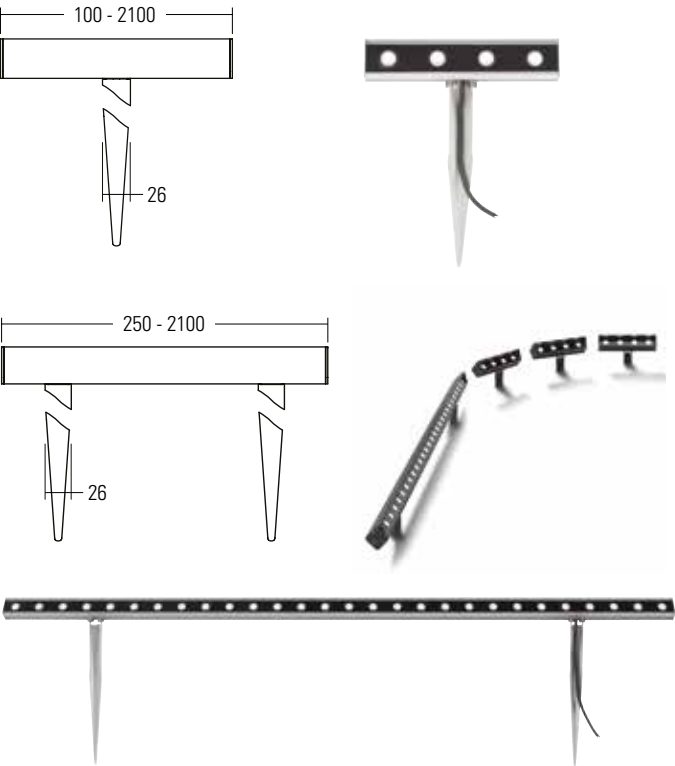
/AWB-50
Adjustable Wall Bracket 50mm



/AWB-300
Adjustable Wall Bracket 300mm (for custom dimensions please contact us)



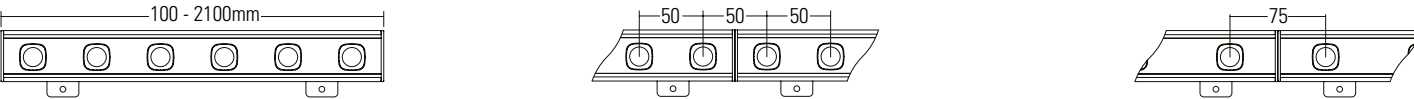
/GS38
The ground spike accessory enables the use of the LD38 as an innovative alternative to conventional spotlights. It offers linear lighting to a range of landscape and garden lighting effects. Ideal for lighting hedge rows, walls and short pieces to light around trees. It can be specified with wider 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. All parts are silver anodised 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.

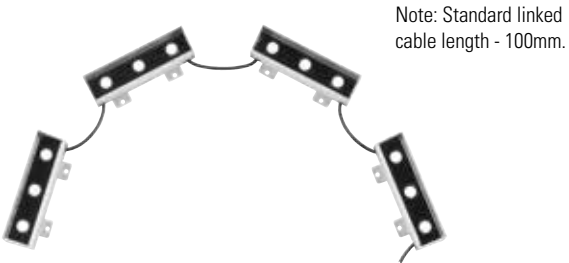
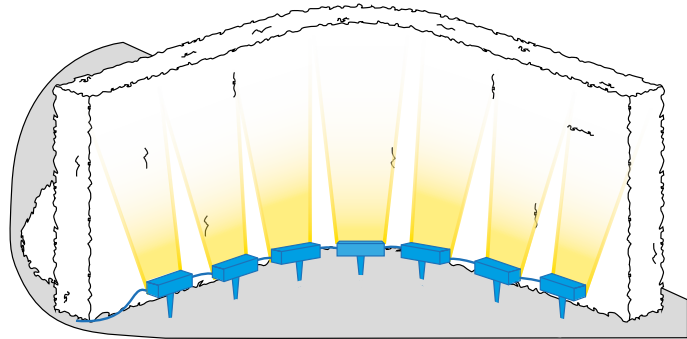
/PAINT FINISH BLACK/WHITE/RAL

/SILVER ANODISED



LINKED

LD38 can be specified in short sections linked together for going around curves and lighting up columns. Two channels can be used to provide up to 28 LEDs at 500mA or 26 at 700mA.



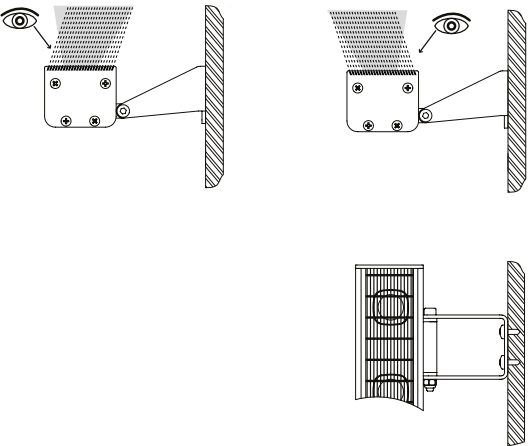
ACCESSORIES

/GL
Anti-glare louvre. Please note this is always supplied in black finish, and is supplied as standard with the louvre positioned to reduce glare when looking at the lit surface. The GLF orientation is useful for applications where the LD38 is placed on a window ledge and reduced glare is required from inside the building looking out.



/GL
Standard orientation of smart louvre

/GLF
Orientation available on request



ORDER CODES AND OPTIONS

Product Code	LED Colour	LED Spacing	Beam Angle	Product Colour	Fixing Option	Accessory	Length
LD38-500-700							
Example: LD38S-700 / LW30 / 50 / OB / White / AWB-50 / GL / 500mm							

PRODUCT CODES WITH OUTPUT OPTION

LD38S (without cowl)	
1.7W LEDs 500mA	LD38S-500
2.4W LEDs 700mA	LD38S-700
LD38C (with cowl)	
1.7W LEDs 500mA	LD38C-500
2.4W LEDs 700mA	LD38C-700

WHITE LED COLOUR OPTIONS	SUFFIX
Super warm white (2200K)	/LW22
Extra warm white (2700K)	/LW27
Warm white (3000K)	/LW30
White (4000K) - on request	/LW40
Cool white (5000K)	/LW50
Red	/LR
Green	/LB
Blue	/LG
Amber	/LA

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

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 (silver anodised)	
Black - End caps, extrusion and fixings (black powder coat)	
White or RAL - End caps, extrusion and fixings (paint finish)	
(Custom bronze / brass wet spray paint colours available, please see our finishes guide on page 250)	

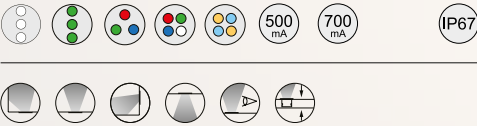
FIXING OPTION	
Adjustable wall bracket (50mm)	/AWB-50
Adjustable wall bracket (300mm)	/AWB-300
Surface mounted bracket	/ABM
Bracket side mounting	/BSM
Ground spike	/GS38

ACCESSORY	
Anti-glare louvre	/GL
Anti-glare louvre (front facing)	/GLF

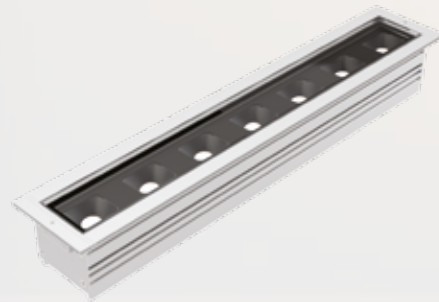
LED DRIVERS	
Use with 350mA, 500mA or 700mA constant current LED drivers (please see page 232)	
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available	

LD34

HIGH POWER LINEAR IN-GROUND LED WALL GRAZER



LD34 is a fixed 2.5° tilt, shallow recessed, low glare, in-ground linear wall grazer, which offers outstanding continuous wall washing capabilities. This IP67 rated, high power surface grazer features an optional frosted diffusion filter to illuminate lower parts of the wall, with individual cowls over each LED ensuring low glare from the viewer's perspective. Available in customised lengths up to 1.4m, with integral glare control options and a range of colour temperatures, including RGBW and Tunable white, the LD34 combines a compact minimal design with the latest in LED technology.



- ### KEY FEATURES
- > Superb wall grazing capabilities with a new 60° x 15° beam
 - > Compact design with only a 55mm recess depth required
 - > High power with up to 4100lm/m at 5000K
 - > Range of glare control options
 - > Individual LED cowls ensure low glare from all directions
 - > Optional frosted diffusion filter to illuminate lower parts of the wall
 - > First fix concrete housing available
 - > LED spacings of 50, 75 and 100mm
 - > Fixed 2.5° tilt
 - > Spacing is maintained across multiple lengths, ensuring no dark spots
 - > Lengths are customised to suit, to a maximum of 1.4 metres
 - > Available in Switched, 0-10V, DMX, DALI and Mains dimmable drivers

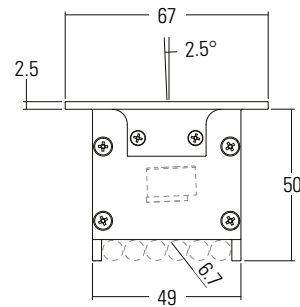
SPECIFICATION

LED	Cree XPG2	
Max drive current	700mA	
Colour temperature	3000K	5000K
CRI (typical)	93	75
Delivered lumens / (L ₁₀₀)		
50mm spacing	3749	4554
75mm spacing	2437	2960
100mm spacing	1874	2277
Lumens per circuit watt	78	95

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

DIMENSIONS

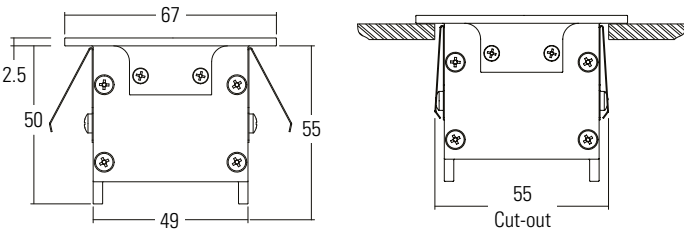
Dimensions in mm



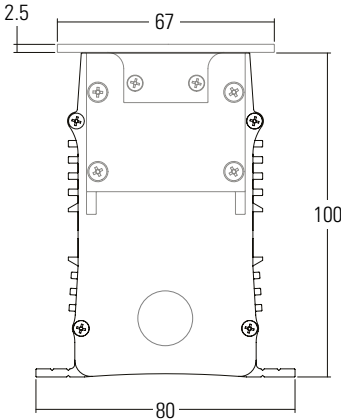
FIXING OPTIONS

Dimensions in mm

/SC - Spring Clips



/CH - Concrete Housing



ACCESSORIES - GLARE CONTROL OPTIONS



/LD34

No glare shield for maximum lumen output. Deep recessed optic and matt black cowl aids in glare reduction.



/GS40

Teamed with the 2.5° fixed tilt the 40% glare shield provides glare protection with only a 28% reduction in total lumens. No loss of light on the lit surface.



/GS50

Half glare shield. For an increased cut-off angle and greater glare control. No loss of light on the lit surface.



/GS40 WITH /FD

40% glare shield and diffusion film combination. The aperture allows the main punch of the beam to leave the fitting, providing glare protection from one side and moving the start of the beam down to the floor on the other.

ACCESSORIES



/GL

Anti-glare louvre. LD34 can be supplied with the glare louvre however the /GS40 is recommended as it provides the same amount of glare protection and delivers a better lit effect on the wall. Please note this is always supplied in a black finish, and is supplied as standard with the louvre positioned to reduce glare when looking at the lit surface.

FINISHES

LD34 has been designed for extreme environments, so only high quality materials and finishes are used to ensure long lasting reliability. All parts are silver anodised to a minimum thickness of 25 microns which offers high protection in all external environments.

ORDER CODES AND OPTIONS

Product Code	LED Colour	LED Spacing	Beam Angle	Product Colour	Fixing	Accessory	Length
LD34-350-500	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Example: LD34-500 / LW30 / 50 / NB / Silver / CH / FD / 1200mm							

PRODUCT CODES WITH OUTPUT OPTION

1.7W LEDs at 500mA	LD34-500
2.4W LEDs at 700mA	LD34-700

WHITE LED COLOUR OPTIONS

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

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

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
60° x 15° extra oval beam	/EOB

PRODUCT COLOUR

Silver - End caps and extrusion (silver anodised)

FIXING OPTIONS

Spring Clips	/CH
Concrete housing	/SC

ACCESSORY

Frosted Diffusion Film	/FD
Glare shield (40%)	/GS40
Glare shield (50%)	/GS50
Anti-glare louvre	/GL

LED DRIVERS

Use with 350mA,500mA or 700mA constant current LED drivers (please see page 232)
Switched, 0-10V, DMX, DALI and Mains dimmable drivers are available

IP KIT 10

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.

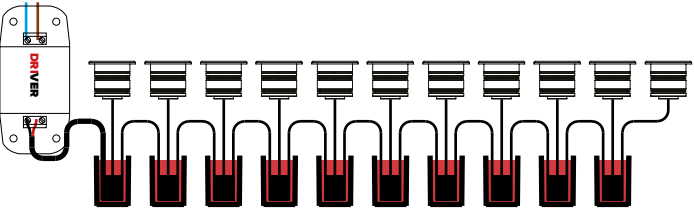


KEY FEATURES

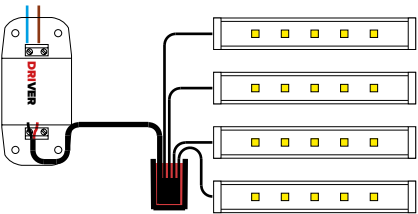
- > Up to 10 connections (11 LED fittings) per IP Kit
- > Designed for single colour constant current LED fittings and 24V linear
- > Quick and simple method of creating IP68 connections on site
- > Resin-filled cartridge for easy handling on site
- > Once fully cured it provides reliable and robust 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 (WIRING IN SERIES)
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

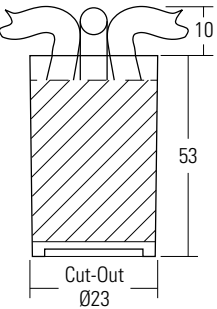
DESCRIPTION _____ ORDER CODE
IP68 resin kit for 10 connections IPKit10
Example: LD56 - 700 / LW27 / MB / SS / 476 / IP KIT 10

INSTALLATION

For more detailed instructions, please contact our sales team



DIMENSIONS



GROUND FIXING TUBES

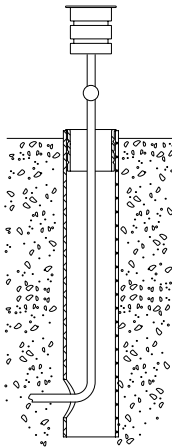
FIRST FIX IN-GROUND MOUNTING TUBES

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.



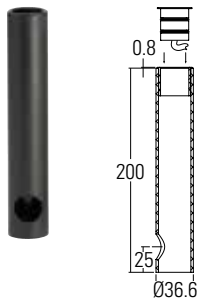
KEY FEATURES

- > 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

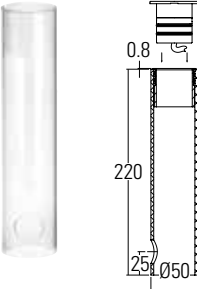


ORDER CODES AND DIMENSIONS

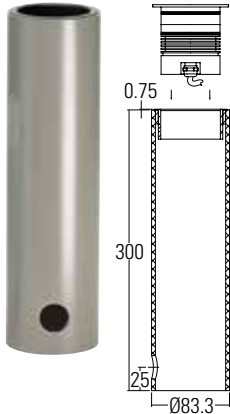
/480GT
For use with any fitting that uses the /480 sleeve
e.g. LD41, LD43, LD60, LD61, LD62, LD64 & LD65
Outer Diameter: 36.6mm, Length: 200mm



/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.

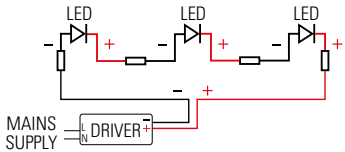
EXAMPLE:
LD41-350 / LW27 / NB / Stainless steel / 480GT
LD56-700 / LW27 / MB / Stainless steel / 476GT
LD151-500 / LW27 / NB / Stainless steel / 484GT

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, LD51-350, LD150-350, LD10236-350, LD26-350, LD36-350

350mA Constant Current Drivers				 UL	 UL	 UL	 UL	 UL	 UL
	TXDL06CC350	TXDS2	TXDP12	TXDEL350S	TXDEL350D	TXDEL350DALI	TXDEL4S350D	TXDEL4S350DALI	TXDEL4A350DMX TXDEL4A350DALI
	GE Lightec	Arditi	TCI	EldoLED	EldoLED	EldoLED	EldoLED	EldoLED	EldoLED
1.2W FITTINGS 	1 - 4	1 - 3	1 - 12	1 - 14	1 - 14	1 - 14	56 (4 x 1 - 14)	56 (4 x 1 - 14)	56 (4 x 1 - 14) 2 - 13 RGB tri chips
3.6W (3x1.2W) FITTINGS 	1	1	1 - 4	1 - 4	1 - 4	1 - 4	16 (4 x 1 - 4)	16 (4 x 1 - 4)	16 (4 x 1 - 4)
5W FITTINGS 	1	-	1 - 3	1 - 4	1 - 4	1 - 4	12 (4 x 1 - 3)	12 (4 x 1 - 3)	12 (4 x 1 - 3) 2 - 13 RGBW
7W FITTINGS 	-	-	1 - 2	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	1	4	4	4 individually addressable
Dimmable	no	no	no	no	0 - 10V (1 - 100%)*	DALI (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
Output Voltage (V)	2 - 20V	3 - 12V	43V	2 - 55V	2 - 55V	2 - 55V	2 - 57V per channel	2 - 57V per channel	2 - 57V per channel
Output Wattage (W)	6W	6W	15W	30W	30W	30W	100W	100W	100W
Dimensions L x W x H (mm)	45 x 60 x 25	42 x 40 x21	115 x 34 x 19	210 x 41 x 34	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	44Ø	40Ø	51Ø	51Ø	51Ø	N/A	N/A	N/A
IP Rating	IP67 as standard	Drivers can be supplied in an IP rated box for use in wet environments.					Drivers can be supplied in an IP rated box for use in wet environments.		

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.

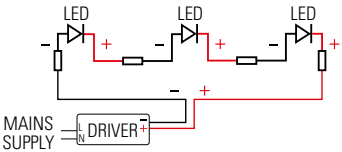
NB: (number of circuits) x (number of LEDs) * Dimming range can vary depending on the manufacturer and type of control system used

500mA LED Drivers













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: LD42-500, LD1030-500, LD36-500, LD26-500

500mA Constant Current Drivers			 UL	 UL	 UL	 UL	 UL	 UL
	TXDL06CC550	TXDL12CC500	TXDEL500S	TXDEL500D	TXDEL500DALI	TXDEL4S500D	TXDEL4S500DALI	TXDEL4A500DMX TXDEL4A500DALI
	GE Lightec	GE Lightec	EldoLED	EldoLED	EldoLED	EldoLED	EldoLED	EldoLED
1.7W FITTINGS 	1 - 3	1 - 8	1 - 14	1 - 14	1 - 14	56 (4 x 1 - 14)	56 (4 x 1 - 14)	56 (4 x 1 - 14)
5.1W (3x1.7W) FITTINGS 	1	1 - 2	1 - 4	1 - 4	1 - 4	16 (4 x 1 - 4)	16 (4 x 1 - 4)	16 (4 x 1 - 4)
7W FITTINGS 	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
10W FITTINGS 	-	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	2 - 55V	2 - 55V	2 - 55V	2 - 50V per channel	2 - 50V per channel	2 - 50V per channel
Output Wattage (W)	6W	12W	30W	30W	30W	100W	100W	100W
Dimensions L x W x H (mm)	45 x 60 x 25	100 x 40 x 28	210 x 41 x 34	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	51Ø	51Ø	51Ø	N/A	N/A	N/A
IP Rating	IP67 as standard	Drivers can be supplied in an IP rated box for use in wet environments.				Drivers can be supplied in an IP rated box for use in wet environments.		

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. TXDEL4A500 drivers list the amount of 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

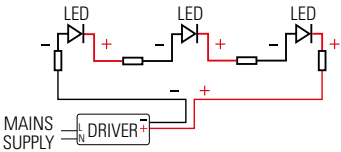
700mA LED Drivers












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, LD1090-700, LD51-700

WIRING IN SERIES
LEDs need to be connected with an ‘in-series’ wiring method.



700mA Constant Current Drivers			 UL	 UL	 UL	 UL	 UL	 UL
	TXDS2/700	TXDP17	TXDEL700S	TXDEL700D	TXDEL700DALI	TXDEL4S700D	TXDEL4S700DALI	TXDEL4A700DMX TXDEL4A700DALI
	Arditi	Arditi	EldoLED	EldoLED	EldoLED	EldoLED	EldoLED	EldoLED
2.4W FITTINGS 	1 - 2	1 - 6	1 - 13	1 - 13	1 - 13	40 (4 x 1 - 10)	40 (4 x 1 - 10)	40 (4 x 1 - 10)
10W FITTINGS 	-	1	1 - 3	1 - 3	1 - 3	8 (4 x 1 - 2)	8 (4 x 1 - 2)	8 (4 x 1 - 2)
14W FITTINGS 	-	1	1 - 2	1 - 2	1 - 2	4 (4 x 1)	4 (4 x 1)	4 (4 x 1)
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%)*	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	2 - 42V	2 - 42V	2 - 42V	2 - 35.7V	2 - 35.7V	2 - 35.7V
Output Wattage (W)	6W	17W	30W	30W	30W	100W	100W	100W
Dimensions L x W x H (mm)	42 x 40 x 21	125 x 38 x 22	210 x 41 x 34	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	51Ø	51Ø	51Ø	N/A	N/A	N/A
IP Rating	Drivers can be supplied in an IP rated box for use in wet environments.				Drivers can be supplied in an IP rated box for use in wet environments.			






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

CONSTANT CURRENT DRIVERS

Phase/mains dimmable drivers must always be specified with care as there are many factors that can affect 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	
	TXDTC350PHD
1.2W FITTINGS 	1 - 14
3.6W (3x1.2W) FITTINGS 	1 - 4
5W FITTINGS 	1 - 3
7W FITTINGS 	1 - 2
Number of outputs/circuits	1
Dimmable	240V trailing & leading edge (5 - 100%)*
Output Current (mA)	350mA
Output Voltage (V)	2 - 47V
Dimensions L x W x H (mm)	166 x 46 x 34
Hole Cut-out (mm)	51Ø
IP Rated	Can be supplied in an IP rated box for use in wet environments

500mA Constant Current Drivers	
	TXDTC500PHD
1.7W FITTINGS 	1 - 14
5.1 (3x1.7W) FITTINGS 	1 - 4
7W FITTINGS 	1 - 3
10W FITTINGS 	1 - 2
Number of outputs/circuits	1
Dimmable	240V trailing & leading edge (5 - 100%)*
Output Current (mA)	500mA
Output Voltage (V)	2 - 47V
Dimensions L x W x H (mm)	166 x 46 x 34
Hole Cut-out (mm)	51Ø
IP Rated	Can be supplied in an IP rated box for use in wet environments

700mA Constant Current Drivers	
	TXDTC700PHD
2.4W FITTINGS 	1 - 13
10W FITTINGS 	1 - 3
14W FITTINGS 	1 - 2
Number of outputs/circuits	1
Dimmable	240V trailing & leading edge (5 - 100%)*
Output Current (mA)	700mA
Output Voltage (V)	2 - 46V
Dimensions L x W x H (mm)	166 x 46 x 34
Hole Cut-out (mm)	51Ø
IP Rated	Can be supplied in an IP rated box for use in wet environments

* Dimming range can vary depending on the manufacturer of the dimmer/control system used









Project: Harrow Chapel Product: LD36

350 - 700mA LED Drivers







24V Input

CONSTANT CURRENT DRIVERS

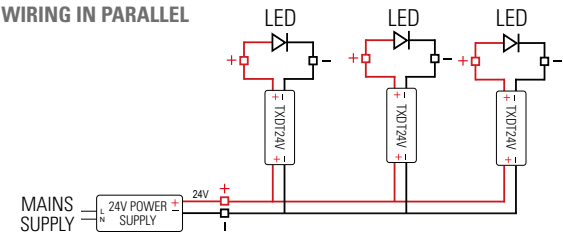
These drivers require a 24V input and provide an output of either 350mA, 500mA or 700mA constant current supply. This makes them particularly useful for boat applications where there is only a 24V supply. The drivers can dimmed using a pulse width modulation signal (PWM) from a TXDO DIM controller (see 24V LED driver section).

350mA 24V DC 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

* See driver data sheet for more information
* Information provided above is based on a 24V input

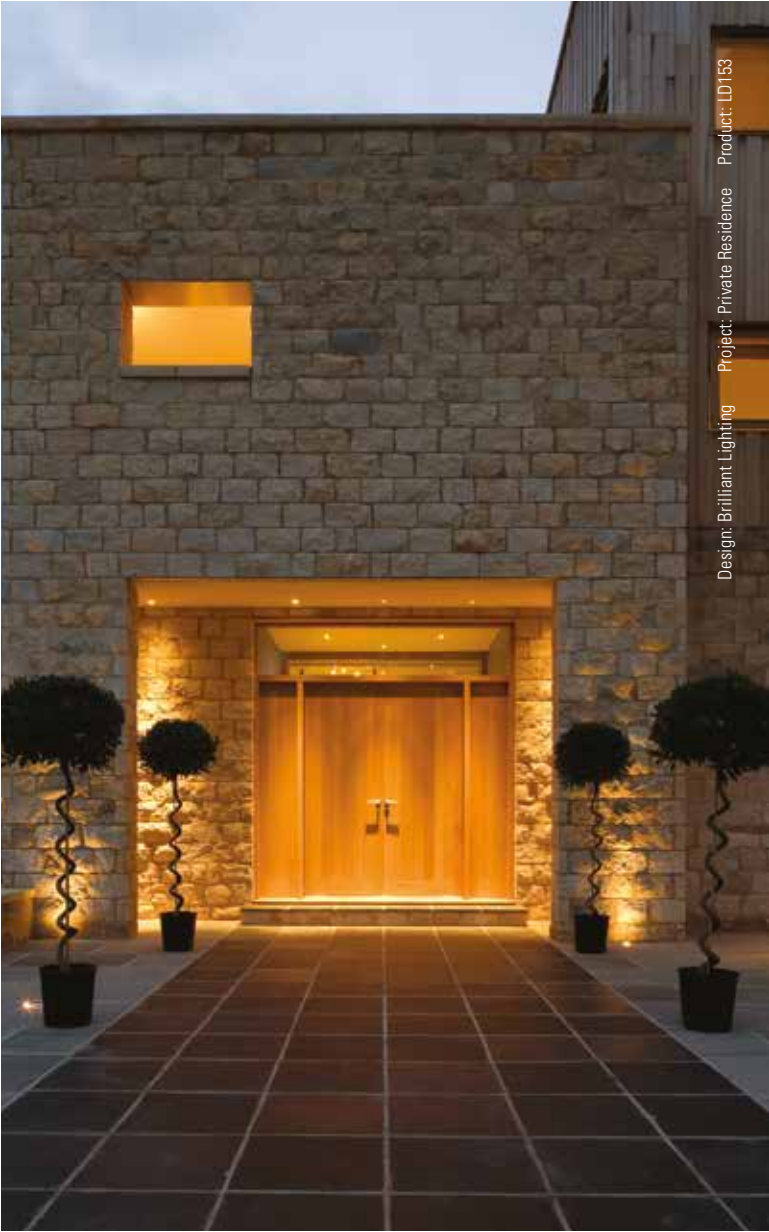
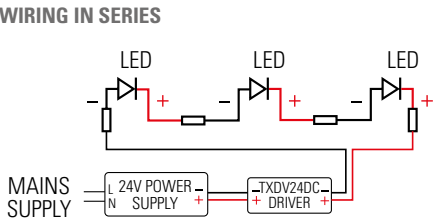
500mA 24V DC Input		
	TXDT24V500	TXDT24V500IP68
1.7W FITTINGS 	1 - 6	1 - 6
5.1W (3x1.7W) FITTINGS 	1 - 2	1 - 2
7W FITTINGS 	1	1
10W FITTINGS 	1	1
Number of outputs/circuits	1	1
Dimmable	PWM (TXDO-DIM, 1-10V, DALI, DMX)	PWM (TXDO-DIM, 1-10V, DALI, DMX)
Output Current (mA)	500mA	500mA
Output Voltage (V)	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

* See driver data sheet for more information



700mA 24V DC 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








* See driver data sheet for more information












24V LED Drivers

CONSTANT VOLTAGE 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, LD Line 15, LD22.

<div>24V</div> <div>Constant Voltage Drivers</div>							
	TXDA24008	TXDTC24020DIM	TXDTC2402DALI	TXDO24020	TXDO24075	TXDL24150	TXDL24200
Output Power (W)	8W	20W	20W	20W	75W	150W	200W
Dimmable	use with Dimming Contoller	Integrated Dimming (1-10) controller	Integrated Dimming (DALI) controller	use with Dimming Controller	use with Dimming Controller	use with Dimming Controller	use with Dimming Contoller
Output Voltage (V)	24V DC	24V DC	24V DC	24V DC	24V DC	24V DC	24V DC
Dimensions L x W x H (mm)	68 x 35 x 21.5	108 x 52 x 22	108 x 52 x 22	109 x 50 x 35	220 x 46.2 x 43.6	300 x 65 x 42	300 x 65 x 42
IP Rating	Drivers can be supplied in an IP rated box for use in wet environments.						

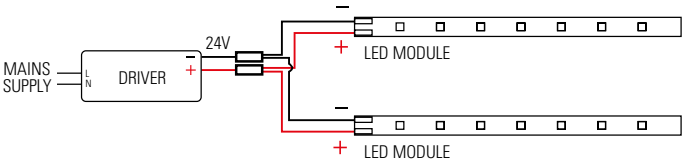
<div>24V Dimming Controllers</div>								
	TXDO-DIM	TXDO-DIM DALI	TXDO-DIM RGB	TXDEL-DIM	TXDEL-DIM DALI	TXDEL-DIM DMX	TXDEL-DIM DMX 2CH	TXDEL-DIM RGBW DMX
Output Power (W)	0 - 120W	0 - 120W	3 x 48W	192W	192W	192W	192W	4 x 36W
UL approved	1	1	3	1	1	1	2	4
Dimmable	1 - 10V (0 - 100%)	DALI (0 - 100%)	1 - 10V (0 - 100%)	0-10V (0 - 100%)	DALI (0 - 100%)	DMX (0 - 100%)	DMX (0 - 100%)	DMX (0 - 100%)
Output Voltage (V)	24V DC	24V DC	24V DC	24V DC	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	153 x 50 x 23	153 x 50 x 23	153 x 50 x 23	153 x 50 x 23	153 x 50 x 23
IP Rating	Dimming controllers can be supplied in an IP rated box for use in wet environments.							

<div>24V</div> <div>Constant Voltage Mains Dimmable Drivers</div>	
Output Power (W)	50W
Dimmable	240V leading edge dimmable
Output Voltage (V)	24V DC
Dimensions L x W x H (mm)	174 x 61 x 24
IP Rating	Drivers can be supplied in an IP rated box for use in wet environments.

Please Note: Dimming drivers must be tested with control systems to assess compatibility.

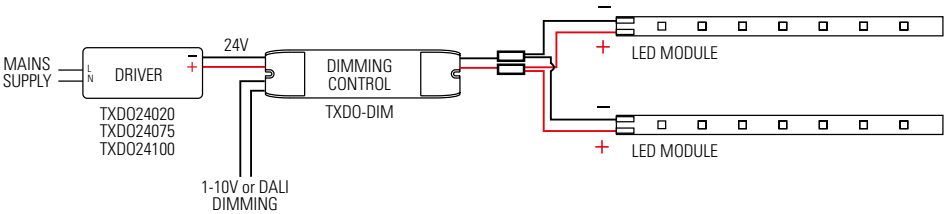
NON DIMMING WIRING DIAGRAMS

LED modules are wired to the driver using a parallel wiring method.

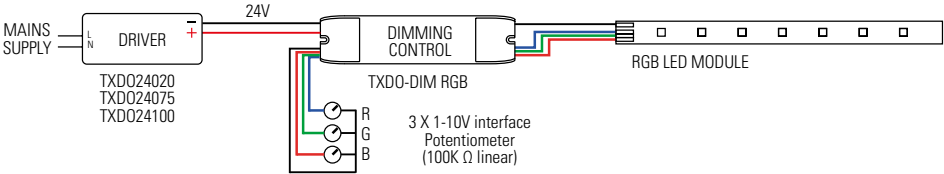


DIMMING WIRING DIAGRAMS

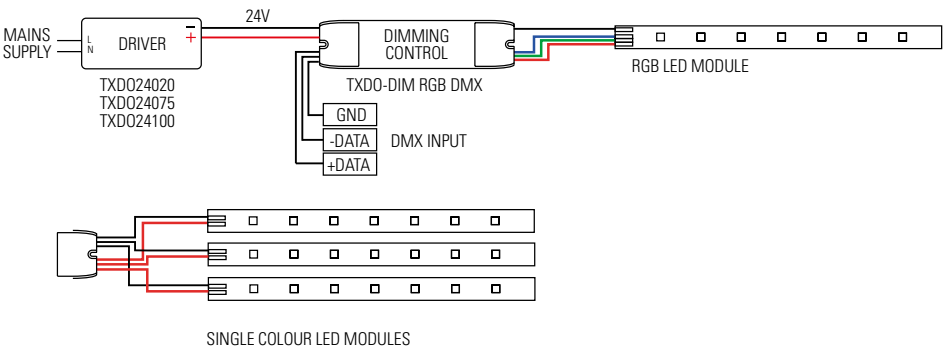
1-10V or DALI dimming for single colour modules with a TXDO-DIM or TXDO-DIM DALI controller.



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.

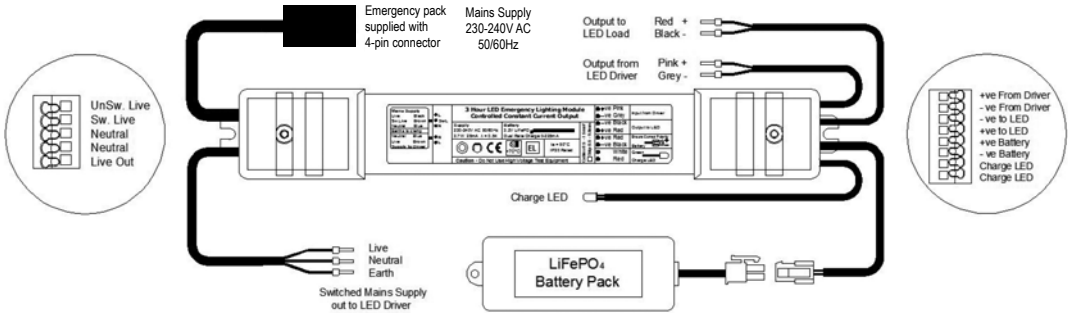


LED Emergency Packs - EP4

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.

The emergency pack will need a specified LED driver to run the LEDs when not in emergency mode.

EP4 - (NLP/1/TP40)
Emergency LED driver and batteries supplied in a kit. 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	560mA	320mA	230mA	180mA	145mA	120mA	105mA	90mA	80mA	75mA	70mA	60mA	55mA	55mA
3 die LED fittings		LD52, LD75	230mA	120mA	80mA	60mA										
4 die LED fittings		LD151, LD153	180mA	90mA	60mA											
6 die LED fittings		LD1210	120mA	60mA												
COB LED		LD1080, LD1092	120mA	60mA												

Luminaire Power	5W	7W	10W	14W
BLF	60%	43%	30%	21%

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%.

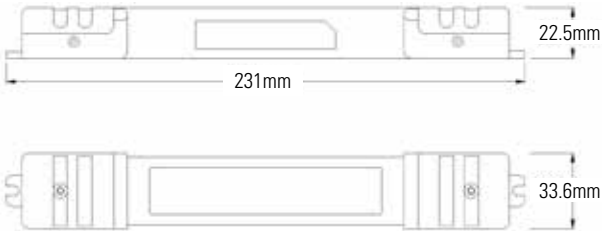
SPECIFICATION

Supply Voltage	220 - 240 Volts AC 50/60 Hz
Power Rating	3.2 Watts
Power Factor	0.4
Duration	3 hours
Ambient Temp	0°C to + 50°C
Max case temperature	70°C
Max battery temperature	55°C
Terminal blocks	0.5 - 1.5mm² Push Wire terminal
Battery fuse	Internal
Supply fuse	N/A
Battery pack	3.2V 3.6Ah LiFePO4 Cell
Charge current	0-250mA
Recharged period	24 hours

DIMENSIONS

RCE

Dimensions - Module	231 x 34 x 23mm
Total weight	1.0kg



EMERGENCY PACK OPTION _____ CODE
EP4 (NLP/1/TP40) EP4

LED Emergency Pack - EP3

EMERGENCY PACKS FOR CONSTANT CURRENT LEDS

EP3 (MMA/LA/40)

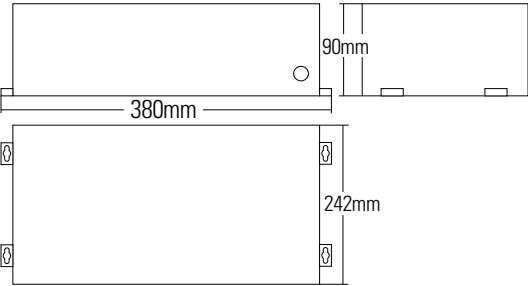
A remote conversion kit designed to provide full output in emergency mode and will power all loads capable of accepting 230VDC, up to 40W. 3Hr emergency lighting conversion kits designed to suit a wide variety of LED types and circuits. It is suitable for both constant current and constant voltage LEDs.

KEY FEATURES

- > Full output in emergency mode
- > Conversion kit for mains voltage LED drivers
- > Deep discharge protection
- > Entire unit housed inside one enclosure
- > High capacity VRLA batteries (integral)
- > Max 40W load
- > Supplied with 1m green charge healthy LED indicator and mounting collar

FIXING OPTIONS AND DIMENSIONS

Dimensions - Module (WxHxD)	380mm x 242mm x 90mm
Total Weight	9.0 Kg



QUANTITY OF FITTINGS PER EMERGENCY PACK

Output Current (mA)		Maximum amount of LEDs per Emergency Pack		
LED type	Example fittings	350mA	500mA	700mA
1 LED cluster	LD56, LD72	33	23	16
3 LED cluster	LD52, LD74	11	7	-
4 LED cluster	LD151, LD10238	8	5	4
6 LED cluster	LD1210, LD1220	5	4	2
COB LED	LD1080, LD1092	5	4	2

SPECIFICATION

Input Voltage	220-240 Volts AC 50/60Hz
Power Rating	6.0 Watts
Emergency Duration	3 Hours
Ballast Lumen Factor (BLF)	100% in Emergency Mode
Maximum Output	40 Watts
Battery Type	12 Volt Valve Regulated Lead-Acid
Capacity	17Ah
Charger	Constant Voltage
Recharge Time	24 Hours
Cut-Off Voltage	10.2 Volts
Ambient Temperature	0°C to + 25°C
IP Rating	IP20
Enclosure	Sheet Steel Hinged Enclosure
Dimensions	380mm x 242mm x 90mm
Battery Pack	Integral
Overall Weight	9.0KG







EMERGENCY PACK OPTION _____ CODE
EP3 (MMA/LA/40) EP3







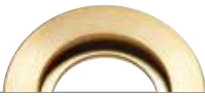


IP Enclosures for LED drivers

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	TXIPB004	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



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 (ANTIQUE 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.
	BMA (Bronze Metal Antique)		No	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.
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		Yes	
	Bronze Anodised		Yes	

PAINT FINISHES	FINISH	IMAGE	EXTERIOR USE	DESCRIPTION
POWDER COATED	Matt Black RAL 9005		Yes	<p>Most of our products can be powder coated, but generally we do this only on either stainless steel or anodised aluminium components. We would not recommend painting 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.</p> <p>Our standard finish is very matt on all powder coats. If we don't have the RAL you require in stock, we can buy this in for an additional fee. LightGraphix have in-house powder coating facilities (max 1.2m)</p> <p>For more complicated products that involve threads then we will sometimes use a RAL colour PTFE coating which is just as durable but slightly finer.</p>
	Matt White RAL 9016		Yes	
	Mars Bronze		Yes	
WET SPRAY	Silver Anodised		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 require 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>
				
	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: Difusiona Project: Difusiona Office Product: LD72

INDEX

PRODUCT	PAGE NUMBER
DRIVERS	232
FINISHES & MATERIALS GUIDE	250
GROUND TUBES	230
IP CONNECTION KIT	228
IP ENCLOSURES	248
LD FLEXI	176
LD LINE 15	180
LD LINE 25 EXTERIOR	184
LD PICTURE LIGHT	188
LD10236	126
LD10237	128
LD10238	130
LD1080	150
LD1081	148
LD1082	152
LD1083	154
LD1090	156
LD1092	158
LD11	168
LD1210	160
LD1220	162
LD150	38
LD150T	42
LD151	46
LD151T	50
LD153	54
LD170	88
LD175	92
LD18	22
LD18 SSB	22
LD22	172
LD242	166





PRODUCT	PAGE NUMBER
LD242A	84
LD242A RGB	86
LD26/A	192
LD26/A IP66	196
LD30	198
LD30HR-24V	202
LD32	206
LD34	224
LD36	208
LD36 IP66	212
LD36 RGB	214
LD38S/C	218
LD40	136
LD41	14
LD42/W/A	68
LD43/W/A	18
LD43DR	24
LD45/46	72
LD47/48	76
LD51	94
LD52	36
LD56	26
LD56 RGB	34
LD56T	30
LD57	80
LD57SQ	82
LD59	90
LD60	16
LD61+LD62	58
LD63	66
LD64+LD65	62

PRODUCT	PAGE NUMBER
LD71	138
LD72	140
LD73SR	142
LD74SR	144
LD74SR-OP	146
LD81	108
LD81M	112
LD82	116
LD95	98
LD96	100
LD97	104
LED EMERGENCY PACKS	244



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 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 e.g. for use on ship decks
	Totally protected against dust, protected against water jets
	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

LED CONFIGURATION AND RGB OPTIONS

	Single LED		Multiple linear LEDs
	COB LED		Multiple single colour linear LEDs
	3 Cluster LEDs		RGB
	3 Cluster with Red LED		RGBW
	Quad LEDs		Tunable White
	Quad LED with Red LED		Single Colour
	6 Cluster LEDs		

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

PRODUCT INDEX

FIND WHAT YOU'RE LOOKING FOR



UPLIGHTS AND WALL LIGHTS



RECESSED FOOTLIGHTS



WALL AND FLOOR MARKERS



RECESSED WALL MOUNTED



SURFACE MOUNTED



DOWNLIGHTS



LINEAR

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