LD11

Miniature Low Profile 24V Linear LED

24V IP54 IP67
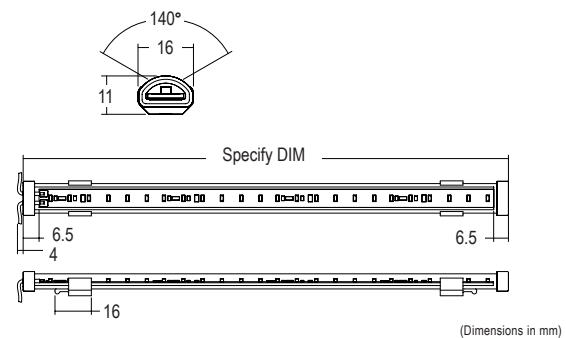
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Design: Brilliant Lighting   Project: Private Residence   Product: LD12

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

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 4024mm**, so no dark spots!
- Available with Switched, 1-10V, DMX or Dali drivers

Dimensions

140°
16
11

Specify DIM

6.5
4
6.5

16

(Dimensions in mm)

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

Data sheet issued: 29 November 2019
LightGraphix reserve the right to change specifications without notice

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LD11
Miniature Low Profile 24V Linear LED

24V IP54 IP67

LED output options	LG500 500 lm/m		Short 800 lm/m		RGB Eco 180 lm/m
Applications					
	Highlighting architectural details, steps		Same applications as LG500 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	3000K / 4000K	2400K / 2700K / 3000K	4000K / 5000K	-
CRI	80+				-
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				
LED cut increments	100mm		50mm		150mm
LED spacing	14.3mm		8.3mm		30mm
Min single length	113mm		63mm		165mm
Max single length*	4024mm				4015mm
LED	Osram Flex				
LED lifetime	50,000hrs (to 70% lumen output)				
Max ambient temperature	45°C				
Minimum bend radius	500mm				
Materials	Polycarbonate extrusion, end caps, and fixing clips. 0.5mm anodised aluminium heat sink				
Cable length	2m (can be specified with up to 10m at extra cost)				
IP rating	IP54 (IP67 option)				

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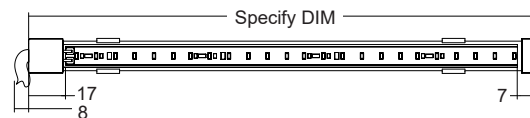
Flexible

- 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.
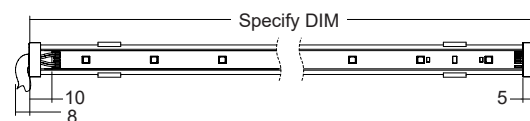
IP67 Rated

- 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. Please see the suggested mounting details section on page 3 for more information.

Specify DIM
17
8
7

RGB IP54 rated

Specify DIM
10
8
5

(Dimensions in mm)

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

Photometrics

Photometric files are included in the design pack which can be downloaded from the LD11 product page on the website.
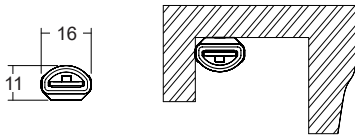
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LD11
Miniature Low Profile 24V Linear LED

24V   IP54   IP67
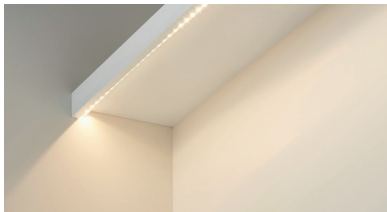
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Fixing Options

/SC - Flat fixing clip
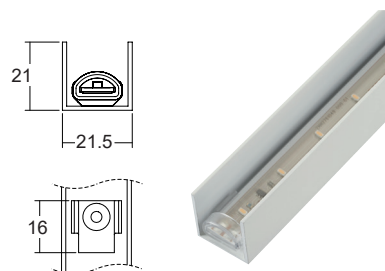

16
11

(Dimensions in mm)

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

18
20

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

19
17   45°
6

/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.

21
21.5
16

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LD11

LightGraphix
Creative Lighting Solutions

Miniature Low Profile 24V Linear LED
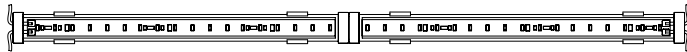
24V IP54 IP67

Suggested mounting details

We recommend the distances shown below when mounting multiple lengths end to end to ensure a continuous wash of light on the lit surface.
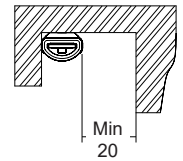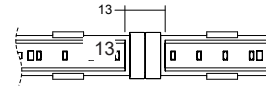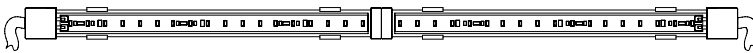
Less than 8m runs (IP54 and IP67 versions)

- By butting up the two non cable feed ends of 2 x 4m lengths you can guarantee little or no break in the wash. LD11 should be installed 20mm from the lit surface, and applies for both the IP54 and IP67 versions
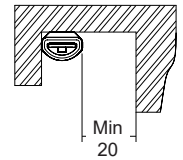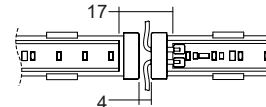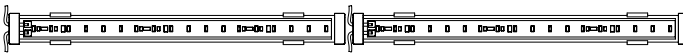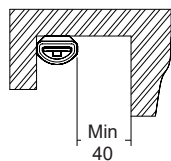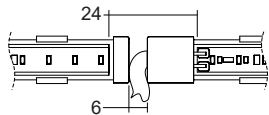
IP54

IP67

13
13

Min 20

More than 8m runs (IP54 version single colour)

- When more than 2 lengths of the IP54 version are needed then a 20mm gap is needed between the LD11 and the lit surface

17
4

Min 20

More than 8m runs (IP67 version)

- When more than 2 lengths of the IP67 version are needed then a 40mm gap is needed between the LD11 and the lit surface

24
6

Min 40

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

Order Codes and Options

Product code	LED	LED colour	Fixing option	IP rating	Length
LD11					

Example: LD11 / Eco / LW30 / SC / IP54 / 2000mm

LED output options

		Suffix
LG500	500 lm/m	/LG500
Short	800 lm/m	/Short
RGB Eco	180 lm/m	/RGB Eco

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
Short	Super Warm White (2400K)	/LW24
	Extra Warm White (2700K)	/LW27
	Warm White (3000K)	/LW30
	Cool White (4000K)	/LW40
	Cool White (5000K)	/LW50

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

Fixing options

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

IP options

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

To be used with 24V constant voltage LED Drivers and Controllers

We offer a range of drivers with 1-10V, DMX, and DALI dimming options. Please download the data sheet from the downloads section at **www.lightgraphix.co.uk**, or contact us for more information