

LD11

Miniature Low Profile 24V Linear LED



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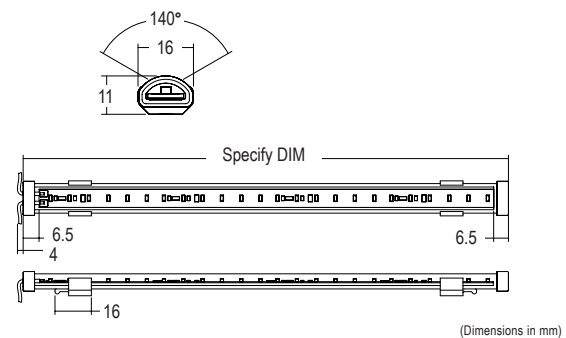
Design: Brilliant Lighting Project: Private Residence Product: LD11

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 4022mm**, so no dark spots!
- Available with Switched, 1-10V, DMX or Dali drivers

Dimensions



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

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LED output options	Eco 220 lm/m		Short 780 lm/m		RGB Eco 180 lm/m
Applications					
	<p>Highlighting architectural details, steps</p>		<p>Same applications as Eco but with increased output and closer pitch LEDs</p>		<p>Colour change</p>
Description	Eco output tape		Short pitch tape		Eco RGB tape
Colour Temperature	2700K / 3000K 4000K		2700K / 3000K 5000K		-
Delivered lumens / m	220lm/m 240lm/m		780lm/m 850lm/m		180lm/m
Watts / m	3.6W/m		9.7W/m		6.5W/m
Lumens per watt	61lm/w		80lm/w		-
Voltage (V)	24V DC				
CRI	85				-
LED	Osram Flex				
LED cut increments	100mm		50mm		150mm
LED spacing	20mm		8.3mm		30mm
Min single length	113mm		63mm		165mm
Max single length*	4022mm				4015mm
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

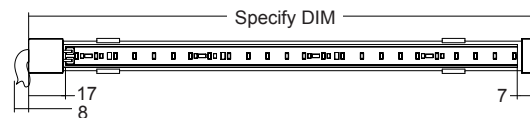
Flexible

- 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.

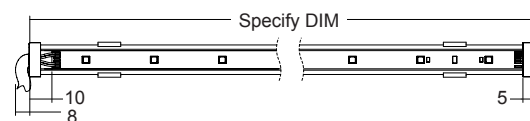


IP67 Rated

- 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.



RGB IP54 rated



(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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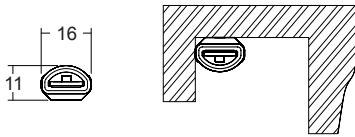


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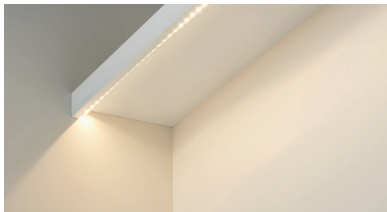
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Fixing Options

/SC - Flat fixing clip



(Dimensions in mm)



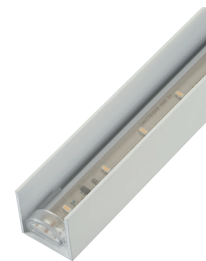
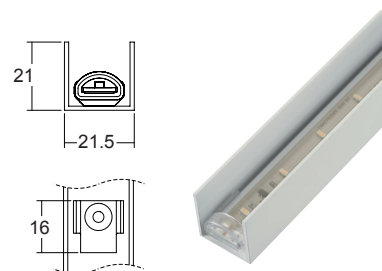
/LBM - 'L' bracket mounting. Comes with fixing clips attached.



/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.



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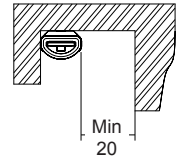
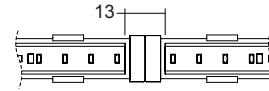
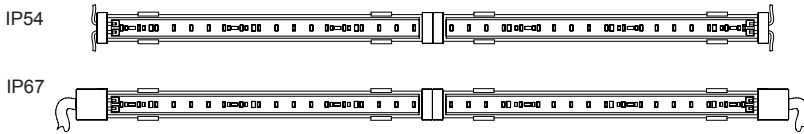
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Suggested mounting details

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

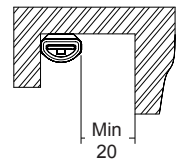
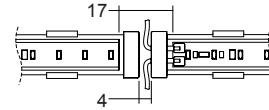
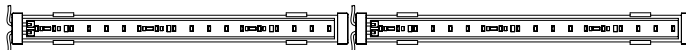
Less than 8m runs (IP54 and IP67 versions)

- 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



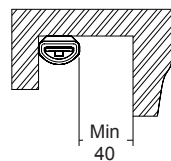
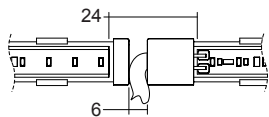
More than 8m runs (IP54 version single colour)

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



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



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	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

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

LED output options	Suffix
Eco	/Eco
Short	/Short
RGB Eco	/RGB Eco
LED colour options	
Extra Warm White (2700K)	/LW27
Warm White (3000K)	/LW30
Cool White (4000K Eco)	/LW40
Cool White (5000K Short)	/LW50
Fixing options	
Fixing clip (3 fixing clips 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