

LD11

Miniature Low Profile 24V Linear LED



Data sheet - Page 1



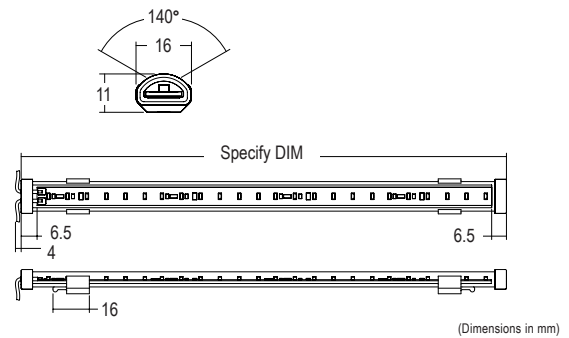
Design: Brilliant Lighting Project: Private Residence Product: LD12

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 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



LD11



Miniature Low Profile 24V Linear LED

Data sheet - Page 2

| LED output options | Eco 220 lm/m | | Short 800 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 | | 2400K / 2700K / 3000K 4000K / 5000K | | - |
| CRI | 80+ | | | | - |
| Delivered lumens / m | 220lm/m | 240lm/m | 800lm/m | 850lm/m | 180lm/m |
| Lumens per watt | 61lm/w | | 92lm/w | 98lm/w | - |
| Voltage (V) | 24V DC | | | | |
| LED cut increments | 100mm | | 50mm | | 150mm |
| LED spacing | 20mm | | 8.3mm | | 30mm |
| Min single length | 113mm | | 63mm | | 165mm |
| Max single length* | 4022mm | | | | 4015mm |
| LED | Osram Flex | | | | |
| Watts / m | 3.6W/m | | 8.7W/m | | 6.5W/m |
| 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

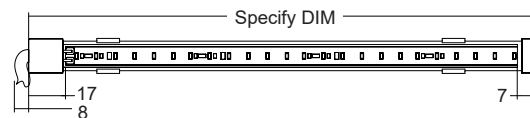
Flexible

- 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.

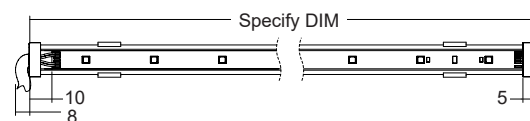


IP67 Rated

- 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.

LD11

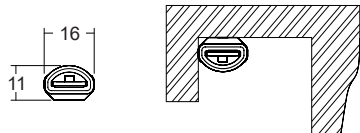


Miniature Low Profile 24V Linear LED

Data sheet - Page 3

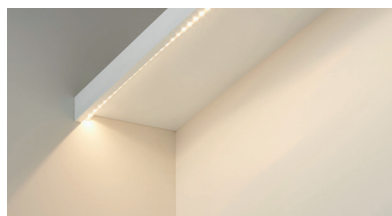
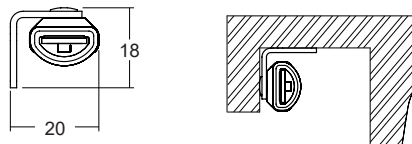
Fixing Options

/SC - Flat fixing clip



(Dimensions in mm)

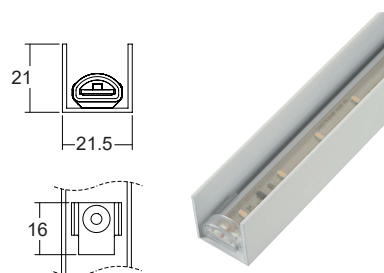
/LBM - 'L' bracket mounting. Comes with fixing clips attached.



/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.



LD11

Miniature Low Profile 24V Linear LED



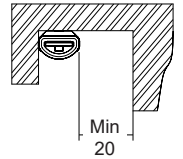
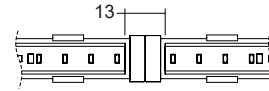
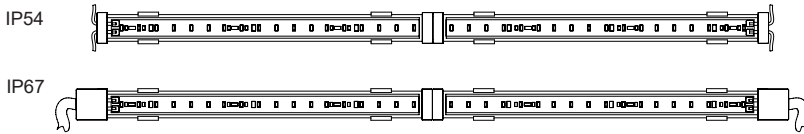
Data sheet - Page 4

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.

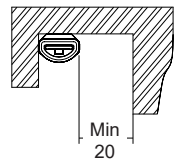
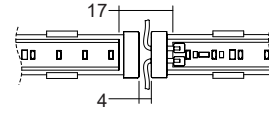
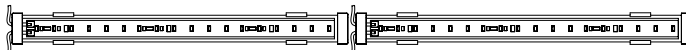
Less than 8m runs (IP54 and IP67 versions)

- 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



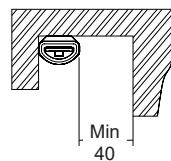
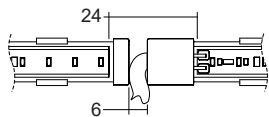
More than 8m runs (IP54 version single colour)

- 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



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 |
|--------------------|----------|
| Eco | /Eco |
| Short | /Short |
| RGB Eco | /RGB Eco |

| LED colour options | Suffix |
|--------------------------------|--------|
| Super Warm White (2400K Short) | /LW24 |
| Extra Warm White (2700K) | /LW27 |
| Warm White (3000K) | /LW30 |
| Cool White (4000K) | /LW40 |
| Cool White (5000K Short) | /LW50 |

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

| IP options | Suffix |
|---------------------------------|--------|
| 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

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