

LD38



Exterior High Power Linear Lensed LED Surface Grazer and Flood Light

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

Key Features

- Superb continuous wall washing capabilities
- Very high power for surface grazing or flood lighting
- Compact, minimal design
- High efficiency optics specially designed for LightGraphix
- LED spacing of 50, 75 and 100mm
- Spacing is maintained across multiple lengths, so no dark spots!
- Wide range of fixing options
- IP68 version available for underwater applications
- Short pieces can be made interlinked to accommodate curves
- Lengths are custom made to suit to a maximum of 2.1 metres
- Available with Switched, 0-10V, DMX or Dali drivers

Specification

Applications



Beam Angles

12°, 31°, 48°, 36° X 12°

LED type

Cree XPG2

Colour temperature

2700K** / 3000K | 5000K

Drive Current (mA)

500 | 700 | 500 | 700

LED power* (W)

1.7W | 2.4W | 1.7W | 2.4W

CRI (typical)

93 | 93 | 75 | 75

Forward voltage (V)₁₀₀

3.2V | 3.4V | 3.2V | 3.4V

LED spacing

Delivered lm/m** (L₁₀₀)

50mm

2907 | 3883 | 3532 | 4718

75mm

1890 | 2524 | 2296 | 3067

100mm

1454 | 1942 | 1766 | 2359

Lumens per circuit watt***

86 | 81 | 104 | 98

LED lifetime (to 70% lumen maintenance)

50,000hrs at a max ambient temperature of 35°C (if specifying fitting in ambient temperatures of up to 45°C run at 500mA max, LD38-500)

Materials

Silver or black anodised aluminium body & end caps, black & optically clear resin

Wiring

Comes pre-wired with 2m lead, can be specified with up to 10m at extra cost

IP rating

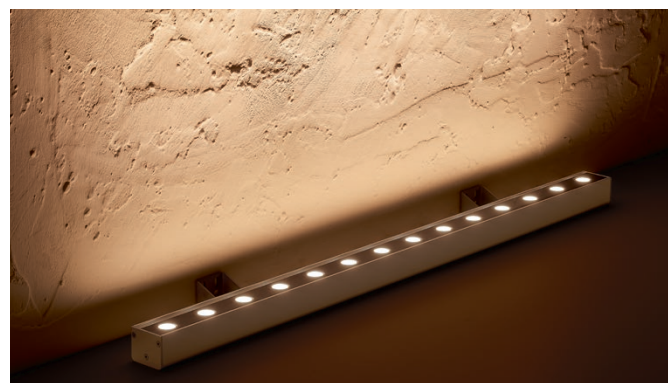
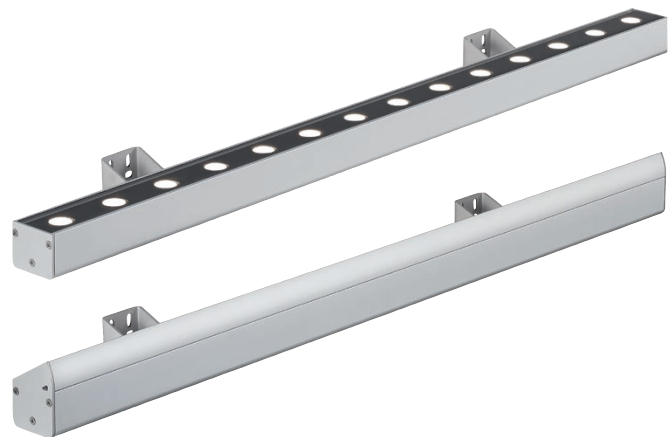
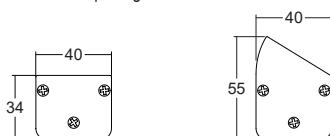
IP67 or IP68

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

** 2700K lumen output is 12% lower than the 3000K figure listed

4000K lumen output is 14% higher than the 3000K figure listed (80 CRI)

***Data shown allows for 50mm spacing



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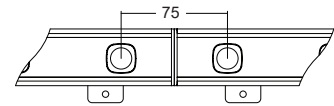
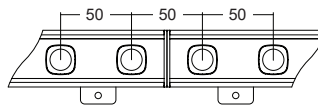
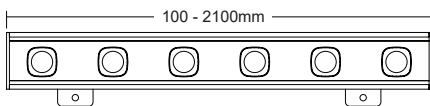


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Made to measure

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



Finishes and materials

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



/Silver anodised

/Black anodised

/Paint finish RAL

Underwater applications

/IP68

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



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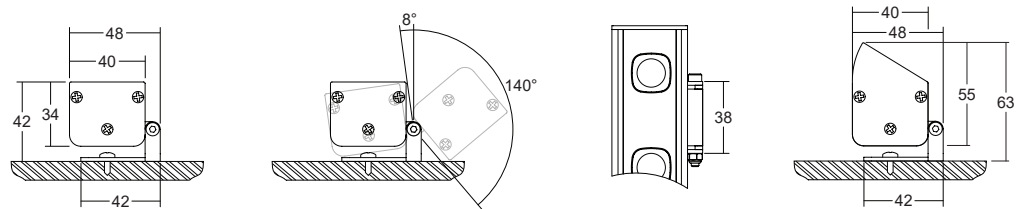
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Fixing Options and Dimensions

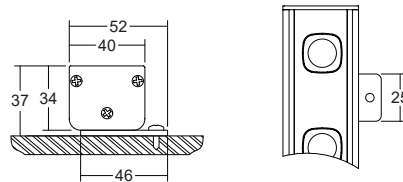
/ABM

Surface Adjustable Bracket Mounting



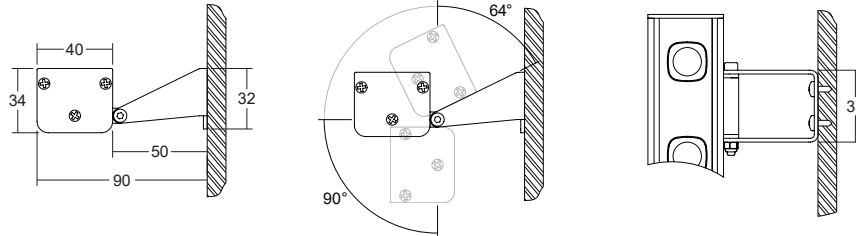
/BSM

Bracket Side Mounting



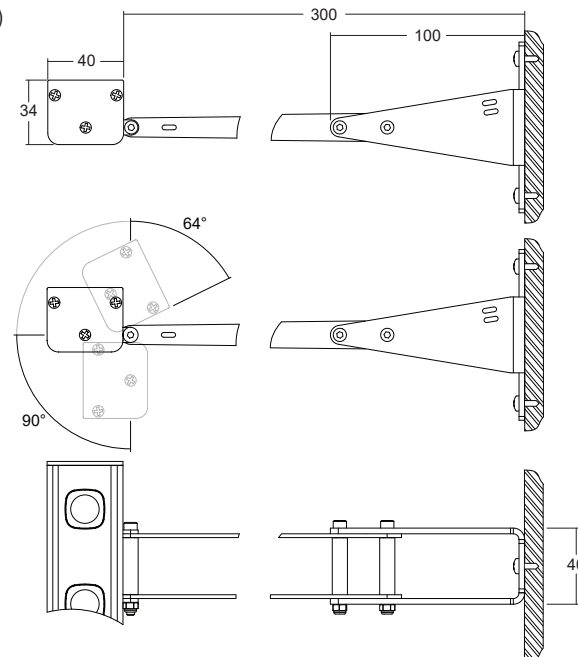
/AWB-50

Adjustable Wall Bracket 50mm



/AWB-300

Adjustable Wall Bracket 300mm
(for custom dimensions please contact us)



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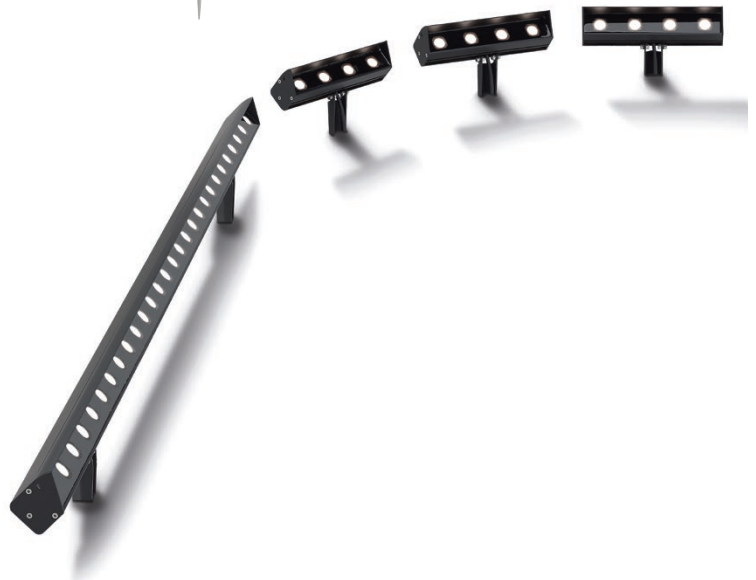
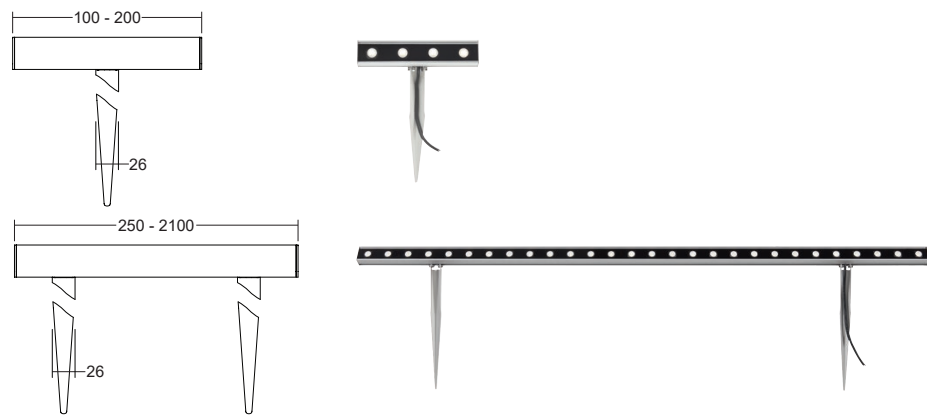


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Fixing Options and Dimensions

/GS

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



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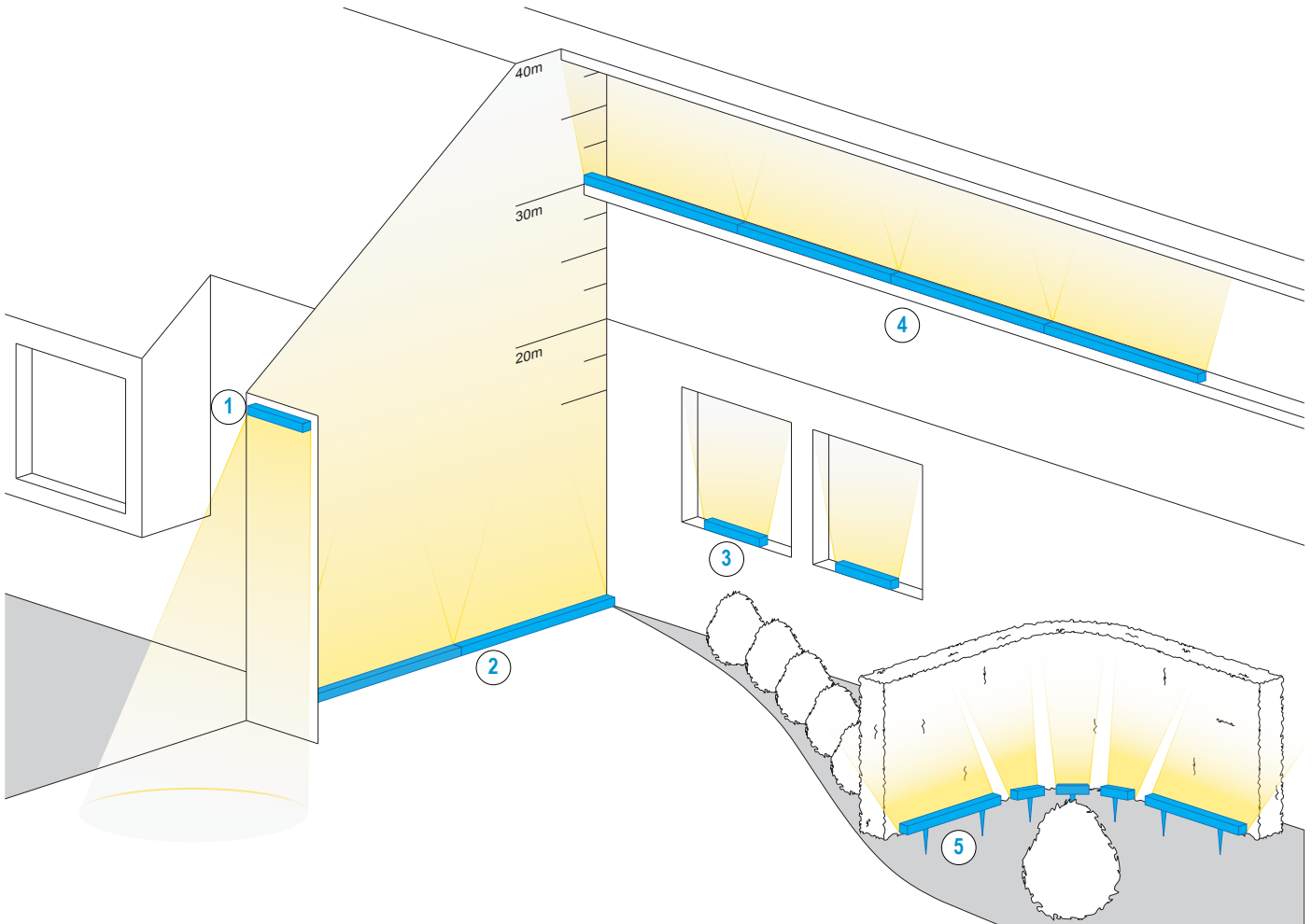


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Applications and Mounting Option Guide

LD38 is incredibly versatile, allowing it to be used to illuminate an entire external project. From high power wall grazing, window reveals, floodlighting and landscape illumination there is a fixing accessory and specification to suit. The made to measure lengths allow the designer to create the exact effect they want to achieve in a particular detail. If we don't have the fixing/accessory you want please get in touch.



Mounting options:

1

/AWB-50



/AWB-300



2

/AWB-50



/AWB-300



3

/ABM



/BSM



4

/ABM



/BSM



5

/GS



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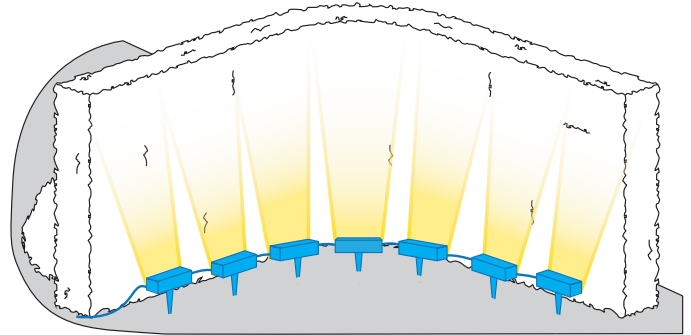
Linked

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.

Design Advice

This section provides advisory module quantities and lengths to ensure drivers are used to their full potential. Custom module and link lengths can be specified.

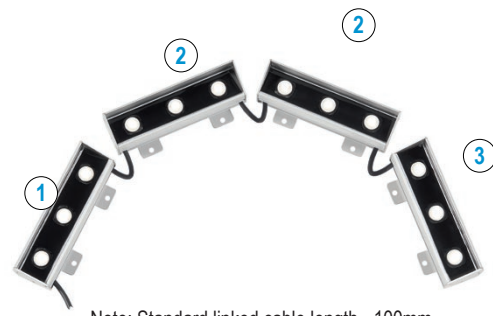
| LED spacing | Module length | No. of modules |
|---------------------|----------------|--|
| 350mA /500mA | | |
| 50mm spacing | 200mm (4 LEDs) | There is a maximum of 28 LEDs on 2 channels, resulting in 7 modules of 4 LEDs. |
| 75mm spacing | 300mm (4 LEDs) | |
| 700mA | | |
| 50mm spacing | 200mm (4 LEDs) | There is a maximum of 26 LEDs on 2 channels, resulting in 6 modules of 4 LEDs. |
| 75mm spacing | 300mm (4 LEDs) | |



Specifying the LD38 Linked

Using the order codes and options table specify the fittings output, LED colour, LED spacing, beam, finish and mounting method. Then use the guide below to specify the individual modules. See example code and image below.

| | Feed length | Module length | Linked length | Quantity |
|--------------------|-------------|---------------|---------------|----------|
| ① Linked starter - | 2m | 150mm | 100mm | 1 |
| ② Linked middle - | | 150mm | 100mm | 2 |
| ③ Linked end - | | | 150mm | 1 |



Note: Standard linked cable length - 100mm.

The following is an example code of how the code is broken down if an exact length is specified.

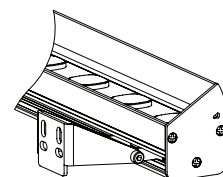
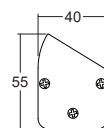
Specification: LD38-700 / LW30 / 50 / OB / White / AWB-50 / IP67 / CO

Example: 2025mm required = 1 x 300mm linked starter, 5 x 300mm linked middle, 1 x 225mm linked end

Accessories

/CO

Linear anti-glare cowl, comes with raised end caps to also reduce glare to the sides



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Accessories Cont.

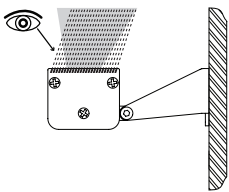
/GL

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.



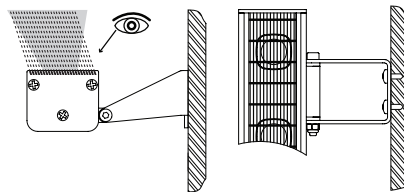
/GL

Standard orientation of smart louvre



/GLF

Orientation available on request



Photometrics

Photometric files can be downloaded from the LD38 product page on the website.

Order Codes and Options

| Product code | LED colour | LED spacing | Beam angle | Fitting colour | Fixing option | IP rating | Accessory | Length |
|-----------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| LD38- 500 - 700 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Example: LD38-700 / LW30 / 50 / OB / White / AWB-50 / IP67 / CO / 500mm

Product codes with output options

| | |
|-------------------|----------|
| 1.7W LED at 500mA | LD38-500 |
| 2.4W LED at 700mA | LD38-700 |

LED colour options

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

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 - End caps, extrusion and fixings (standard)
Black - End caps, extrusion and fixings
White or RAL - End caps, extrusion and fixings

Fixing options

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

IP rating

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

Accessory

| | |
|----------------------------------|------|
| Linear anti glare cowl | /CO |
| Anti glare louvre | /GL |
| Anti glare louvre (front facing) | /GLF |

Use with 350mA, 500mA and 700mA constant current LED drivers

We have a wide range of dimmable LED drivers, 0-10V, DMX, DALI and Mains dimmable. Please see the downloads section on our website