(IP54)

LD1220

Exterior Low Glare Adjustable LED Downlight

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(IP67)

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

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
- Available with Switch, 0-10V, DMX, Dali or Mains dimmable drivers

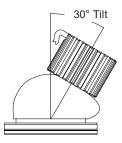
Specification

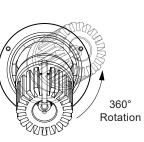
Applications							
Beam Angles	15°, 25°, 40°						
LED type	6 x Cree XPG2						
Colour temperature	27	2700K** / 3000K			5000K		
Current	350mA	500mA	700mA	350mA	500mA	700mA	
LED power (Max)	7W (6.6W)*	10W (9.6W)*	14W (13.5W)*	7W (6.6W)*	10W (9.6W)*	14W (13.5W)	
CRI	93	93	93	75	75	75	
Forward voltage (V)100	20V	20.7V	22V	20V	20.7V	22V	
Delivered lumens** (L100)	507	692	924	616	840	1122	
Lumens per circuit watt	78	72	67	95	88	81	
LED lifetime (to 70% lumen maintenance)	50,000hrs at an average ambient temperature of 35°C						
Materials	Stainless steel 316, Hard anodised aluminium, PVC 'Boot'						
Wiring	Pre-wired with 350mm twin core sheathed cable						
IP rating	IP67 the front & IP54 from behind						

*LED wattage includes losses associated with using an 85% efficient driver ** 2700K lumen output is 12% lower than the 3000K figure listed

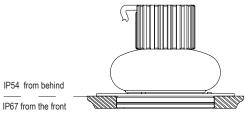
4000K lumen output is 14% higher than the 3000K figure listed (80 CRI)

Lockable Adjustment













(350

(500 mA

(700 mA

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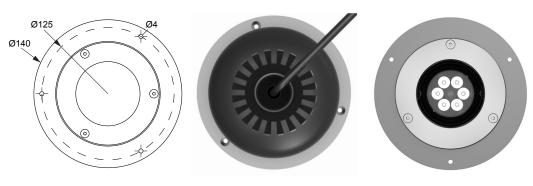
LD1220

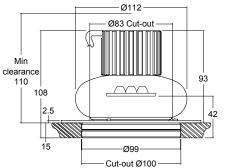
8 350 500 (mA) (P54 (P67) **F** (II)

Exterior Low Glare Adjustable LED Downlight

Fixing Method

/CMR140 - Metal Ceiling Mount Ring





Rebate cut-out Ø145 Ø112 Min clearance 110 108 15 Ø99 Ø100 Cut-out

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?

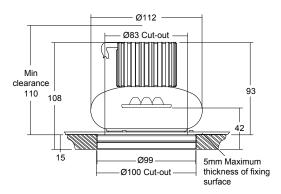
The LD1220 is designed to be installed flush, so the thickness of the mounting surface is important to how the ceiling ring is installed:

- 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

Please see page 4 for full instructions on how to install the LD1220.

- 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.



LD1220

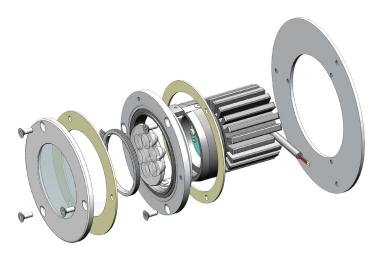
Exterior Low Glare Adjustable LED Downlight

Design









Order Codes and Options

Product code LD1220 - 350 - 500 - 700 Example: LD1220-350 / LW30 / MB / CMR1220 / Polished Stainless Steel					
Product codes with output options					
7W 350mA 10W 500mA 14W 700mA	LD1220-350 LD1220-500 LD1220-700				
LED colour options	Suffix				
Extra Warm White (2700K) Warm white (3000K) White (4000K) - on request Cool white (5000K) "Other LED colour temperatures are available. Please speak to a member of our sales team.	/LW27 /LW30 /LW40 /LW50				
Beam / lens angle options					
15° narrow spot 25° medium 40° wide	/NB /MB /WB				
Accessories					
Ceiling mount ring (black anodised) Honeycombe louvre (black) Bezel finish options	/CMR140 /HL50				

Paint finish black / white (RAL 9016) / RAL Polished and passivated stainless steel (marine grade polishing)

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

For our complete range of LED drivers please download the data sheet from the downloads section at www.lightgraphix.co.uk or please contact us for more information





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Creative Lighting Solutions

(IP54)

(350) mA

(500)

(700 mA

LD1220

Installation Instructions

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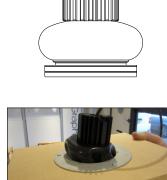
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Bore cut-out of Ø100mm for the 1 bezel. For mounting in surfaces greater than 15mm in thickness, create a Ø145mm rebate in the back of the mounting surface.

Wire the luminaire to a specified 3 driver. NOTE: Connections in wet environments. Make IP68 connection to stop water travelling up the cables into the fittings! Refer to IP connection data sheet for further details.

Pass fitting through mounting ring. 5 It is advised that the "Boot" is gently compressed in order for the fitting to pass through with ease. NOTE: Handle with care to maintain the fitting's IP protection.

7 Make any adjustments needed using the 2mm Allen key. Tilt adjustment: Loosen both tilt assembly screws (leaving some friction). Use fingers to tilt the fitting, avoid touching the optic. Tighten to lock off position Fitting rotation: Loosen the 3 grubs screws in the rotation ring. Adjust to desired position. Tighten to lock off position.



Rebate Cut-Out

Ø145

Cut-Out Ø100 -

Mounting surface

15

Connection

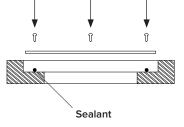


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Tilt adjustment

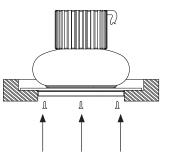
Fitting rotation

Secure the fitting into the 6 M4x10 screws provided .





Gasket Bezel



mounting ring by using the 3

Fix the mounting ring

in the rebate or on the

Sealant can be used to create

Remove bezel and

gasket by using the

supplied allen key to unscrew

the 3 CSK screws.

2

4

mounting surface.

an IP rated seal.

8 Once adjusted to the desired position, replace the gasket and bezel.



