

LD242A RGB

Underwater RGB LED Pool Light







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The LD242A RGB has been designed specifically for permanent submersion applications. It is manufactured from high grade 316 stainless steel and anodised aluminium. The LED module is potted to prevent moisture ingress via the cable and the fitting is mechanically sealed. The bezel is polished and passivated for extra protection against chlorine or salt water.

Key Features

- Integral anti-wicking barrier increases protection against moisture ingress due to incorrect IP rated cable connections
- LD242A RGB is mechanically sealed, allowing it to be a serviceable product by LightGraphix
- Single LED optic allows colours to mix at the source, with smoother RGB changing and no multiple shadows
- First fix sleeve and O-rings to seal fitting into mounting surface
- Optional concrete-in first fix housing
- Bezel is polished and passivated for pool and sea environments
- LD242A (single colour) also available
- Please specify with long cables to enable connections to be made in a dry location
- Available with 0-10V, DMX or DALI drivers
- This can only be used underwater due to thermal management. Please see our LD56 RGB for other applications

Design tip: The 30° medium beam optic is the best for colour mixing. The narrow 12° can be used if the lighting scheme does not involve mixing of the RGB to create a colour, or if the surface being washed is a reasonable distance away allowing the colour to mix.

Specification

Applications

Beam Angles

LED type

Current









12° Narrow and 30° Medium

1 x Cree XML RGB

350mA 3.6W LED power (Max)* 9.0V

Forward voltage (V)₁₀₀ LED lifetime (to 70%

lumen maintenance) Glass

Materials

Hard black anodised aluminium body, machine finish 316

50,000hrs at a max ambient temperature of 35°C

stainless steel bezel

5mm thick low iron glass

Wiring Comes pre-wired with 6 core 0.5m lead, can be specified

with up to 10m at extra cost

IP rating IP68 up to 2m. Not suitable for saltwater pools.

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









LD242A RGB



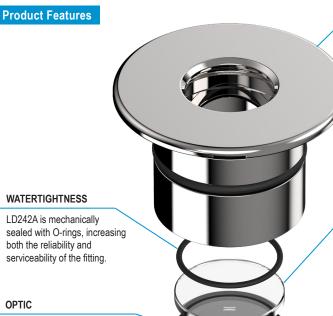






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BEZEL

High quality machined, marine-grade 316 stainless steel, which is polished and High quality machined, marine-grade 316 stainless steel, which is polished and passivated to provide extra protection in underwater environments. Polishing the bezel brings the chromium to the surface and gives excellent protection from oxidation, whilst passivation removes ferrous material from details like threads and prevents brown stains caused by oxidation.



GLASS

5mm thick low iron glass, for high efficiency light output.

BODY

Machined and anodised body. 6000 series aluminium chosen for its thermal characteristics and resistance to corrosion.

ACCESSORY

Choose between our fixing sleeve or concrete-in housing





High efficiency optics with a range of beam angles to create the perfect effect.

LED

Cree XML RGB LED.

LED Technology

LED Board	in the second se	Industry leading thermal management of the LED, with a high quality, embedded copper PCB and direct contact cooling for the LEDs, guaranteeing long life and minimal colour shift.	
LED type	Cree XML		
Key features	 RGB LEDs mounted under a single 12deg or 30deg optic for colour mixing All copper LED board 3 LED circuits required 		
Cables		CH 1 CH 3	



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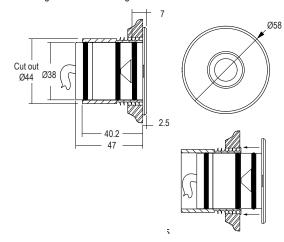




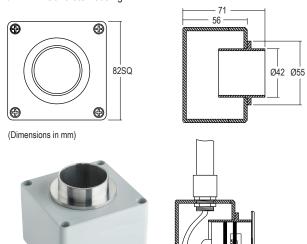
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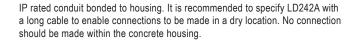
Dimensions and Fixing Options

/476 - Fixing sleeve and O-rings



/242N - Concrete housing





Order Codes and Options

Product code	Beam angle	Finish	Fixing		
LD242A-RGB-350					
Example: LD242A-RGB-350 / MB / Stainless Steel / 476					
Product codes with	output options				
3.6W (3 x 1.2W LEDs) at	LD242A-RGB-350				
Beam / lens angle options					
12° narrow spot			/NB		
30° medium	/MB				
Bezel finish options					
Polished and passivated stainless steel (for marine environments)					
Fixing accessories					
First fix sleeve with O-ring	gs		/476		
Concrete housing	/242N				
Use with 350mA constant current LED drivers					
We can offer both DMX 8					
Please see the download To run 2-13 LD242A-350			ımable)		
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