

## LD170

### HIGH-POWER LED INTERIOR/EXTERIOR WALL LIGHT



CB | R+R



The LD170 is a powerful but compact, recessed wall light designed to produce a low glare uniform floor wash for interior and exterior applications. LD170 is ideal for the illumination of broad steps and pathways with its wide oval beam, integral glare baffle and 20° kick lens which focuses the beam down onto the lit surface. Available LED engines include E3 and F1 which offer colour temperatures between 2200K-5000K, with optional accessories and bezel finishes to choose from. The bezel aesthetic is minimal featuring black trim glass and no visible fixings. This is a very tough, high quality fitting, machined from high grade materials, ensuring excellent thermal and light output performance.

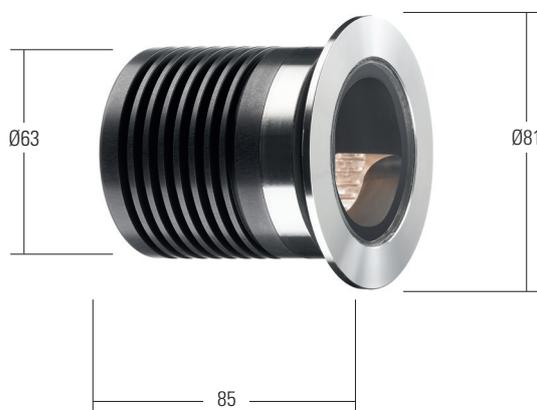
## KEY FEATURES

- > E3 engine option, featuring the NICHIA LED with up to 198 lumens, 2-step binning and reverse polarity protection
- > F1 COB, Tunable White, RGBW, 2nd channel LEDs also available
- > Straight cut edged bezel available in 316 Stainless Steel, Polished & Passivated 316 Stainless Steel, Machined Brass, Flamed Solid Bronze and RAL paint finishes
- > Integral glare baffle which minimises the light above the horizontal
- > 20° angled kick lens focuses an oval beam down on to the lit surface
- > Toughened glass with black ceramic trim
- > Fitting rated IK08
- > Single light source and optic produces a very consistent beam with no multiple shadows
- > LED and lens recessed in a matt black anodised body for reduced glare
- > Hidden fixing with first fix sleeve with O-rings
- > Switched, 0-10V, Casambi, DMX, DALI or Mains dimmable drivers available

## DIMENSIONS

*Dimensions in mm*

For full dimensions and for accessory dimensions please go to page 4.



## WHITE LED ENGINE SPECIFICATION

| Engine                                | E3                                |            | F1                                |            |
|---------------------------------------|-----------------------------------|------------|-----------------------------------|------------|
| Beam angles                           | 13° x 44°                         |            | 13° x 44°                         |            |
| LED manufacturer                      | NICHIA                            |            | CREE                              |            |
| Colour temperature*                   | 2200K, 2700K, 3000K, 4000K, 5000K |            | 2200K, 2700K, 3000K, 4000K, 5000K |            |
| Current [Rated Output]                | 350mA [5W]                        | 500mA [7W] | 350mA [3.5W]                      | 500mA [5W] |
| Typical LED Circuit wattage           | 4.4W                              | 6.4W       | 3.3W                              | 5W         |
| Delivered lumens (L <sub>100</sub> )* | 147                               | 198        | 76                                | 114        |
| Delivered lm/Circuit W**              | 33                                | 31         | 23                                | 23         |
| Typical LED Source wattage            | 4W                                | 5.8W       | 3W                                | 4.5W       |
| Source LED lm                         | 574                               | 740        | 377                               | 497        |
| Source lm/W                           | 144                               | 128        | 126                               | 110        |
| Forward voltage (V <sub>100</sub> )   | 11.3V                             | 11.6V      | 8.7V                              | 9V         |
| CRI                                   | 85                                |            | 90                                |            |
| Colour consistency                    | 2SDCM                             |            | 3SDCM                             |            |
| Peak intensity**                      | 1,271 cd                          |            | 505 cd                            |            |
| LOR                                   | 0.27                              |            | 0.23                              |            |
| TM30                                  | RF86   RG98                       |            | RF90   RG102                      |            |
| BUG rating ('sideways' mounted)       | B0-U1-G1                          |            | B0-U1-G1                          |            |
| LED lifetime                          | L90B5 at 90,000hrs                |            | L90B5 at 90,000hrs                |            |
| Applications                          |                                   |            |                                   |            |

These values are based around a LD170-E3-500-LW30 -NB & LD170-F1-500-LW22-MSB

\*See lumen variance table to the right for F1 engine. E3 lumens apply across all colour temperatures

\*\*LED wattage includes losses associated with using a 90% efficient driver

## MECHANICAL

|                     |                                                                                      |                                                |
|---------------------|--------------------------------------------------------------------------------------|------------------------------------------------|
| Ambient temperature | E3                                                                                   | -20°C to 55°C (350mA) or -20°C to 45°C (500mA) |
|                     | F1                                                                                   | -20°C to 55°C (350mA) or -20°C to 45°C (500mA) |
|                     | AUS/NZ                                                                               | -20°C to 25°C (350mA-500mA)                    |
| Glass               | 6mm thick toughened glass with black ceramic screen print                            |                                                |
| Materials           | Stainless steel bezel, anodised aluminium body                                       |                                                |
| Weight of product   | 0.52kg                                                                               |                                                |
| IP rating           | IP67                                                                                 |                                                |
| IK rating           | IK08                                                                                 |                                                |
| Wiring              | In-series constant current wiring (pre-wired with 2 core cable at a length of 250mm) |                                                |

## ENVIRONMENTAL

|                    |                      |                                                                                                                                                                                                                 |
|--------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TM65               | Available on request |                                                                                                                                                                                                                 |
| TM66               | 2.6                  |                                                                                                                                                                                                                 |
| Repair + Refurbish |                      | This product is included in our Repair and Refurbish scheme. This offers customers the ability to send back products to us for repair or refurbishment to extend their life without having to buy new fittings. |

AVAILABLE FINISHES

Please refer to our finishes guide for full details



**316 STAINLESS STEEL**

- > Marine grade 316 Steel
- > Standard machined finish
- > Extremely durable
- > Passivation recommended for marine environments to further prevent corrosion and build up of brown stains caused by oxidation
- > Interior & exterior use

**POLISHED & PASSIVATED 316 STAINLESS STEEL**

- > Marine grade 316 Steel
- > Pristine mirror like finish
- > Extremely durable
- > Passivated to extensively prolong resistance to corrosion and brown stains caused by oxidation in marine environments
- > Interior & exterior use

**MACHINED BRASS**

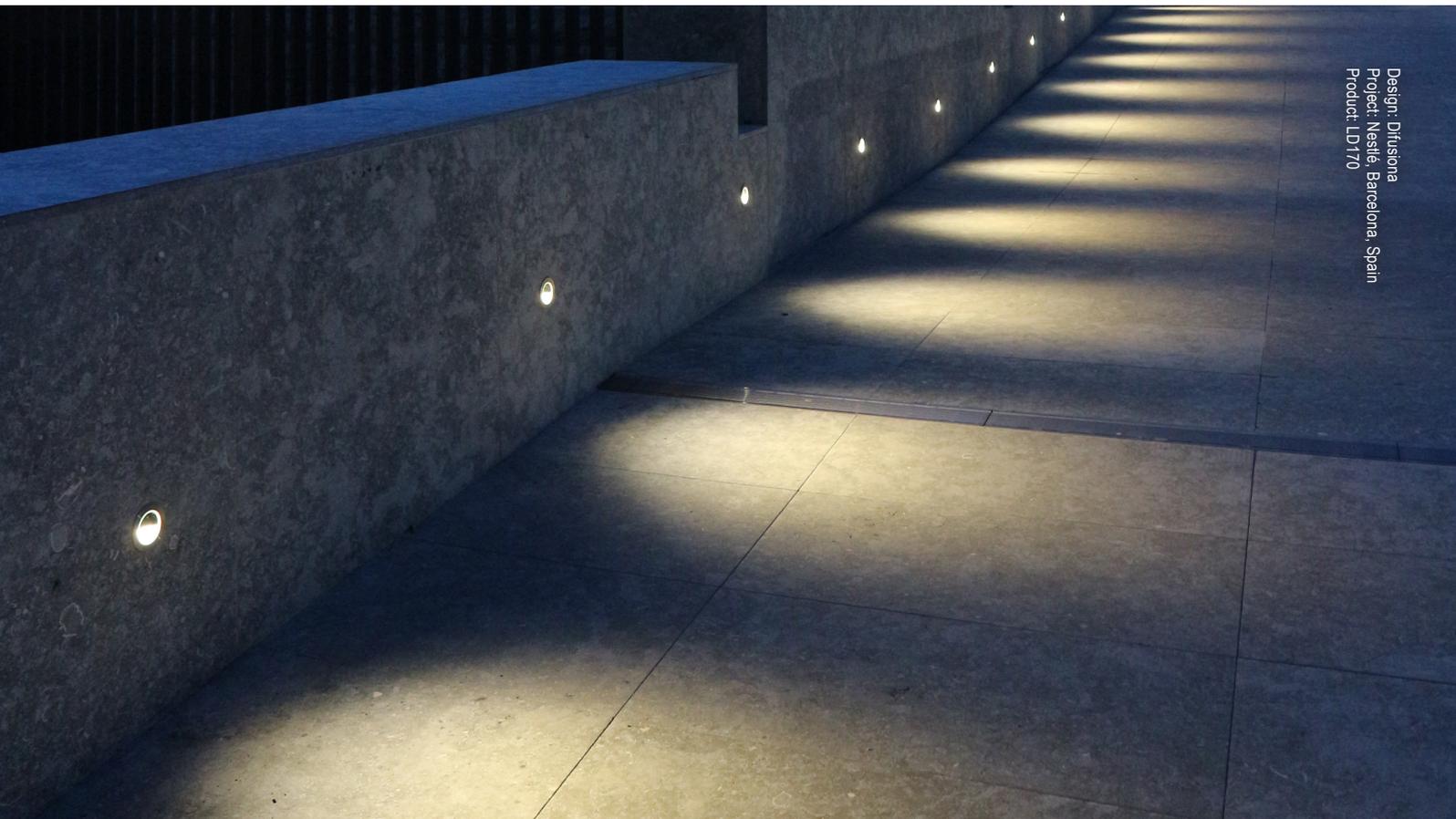
- > Solid CZ121 Brass
- > Standard machined finish
- > Corrosion resistance rated fair to excellent
- > Please note a natural green/brown patination layer will form after long term exposure to the elements, the extent of this discolouration will be dependant on its location.
- > Interior & exterior use

**FLAMED SOLID BRONZE**

- > Solid Bronze
- > Hand finished Flamed Bronze unique to LightGraphix
- > Extremely durable with very high corrosion resistance
- > Please note a natural dark patination layer will form after long term exposure to the elements, the extent of this discolouration will be dependant on its location.
- > Interior & exterior use

**PAINT FINISH**

- > Matt Black, Matt White, and other RAL colours available
- > Not recommended for footlights in high traffic areas
- > Interior & exterior use



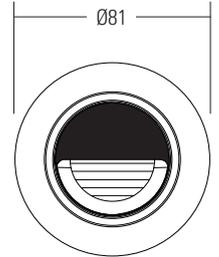
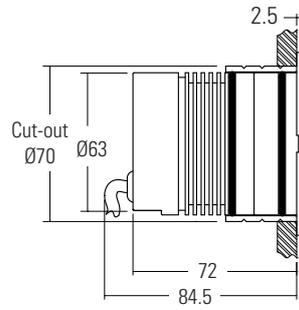
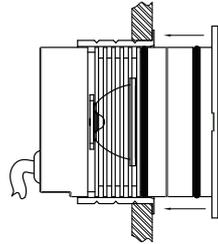
Design: Difusiona  
Project: Neslé, Barcelona, Spain  
Product: LD170

**DIMENSIONS AND FIXING ACCESSORIES**

*Dimensions in mm*

**/484S First fix sleeve**

The fitting should be specified with a /484S first fix sleeve; this is bonded into the mounting surface first. It is secured into the sleeve by two O-rings on the body. When pushed into the sleeve it creates a watertight seal.



ORDER CODES & OPTIONS

Example: LD170-E3-500/LW30/316 STAINLESS STEEL/484S

Light Engine & Drive Current / LED Colour / Finish / Fixing accessories

LD170- / / /

**E3**

|                 |              |
|-----------------|--------------|
| 5W LED at 350mA | LD170-E3-350 |
| 7W LED at 500mA | LD170-E3-500 |

**\*AUS/NZ:**  
Add - AU - suffix to the product code e.g.  
LD170-AU-C1-350

|                          |       |
|--------------------------|-------|
| Super Warm White (2200K) | /LW22 |
| Extra Warm White (2700K) | /LW27 |
| Warm White (3000K)       | /LW30 |
| White (4000K) on request | /LW40 |
| Cool White (5000K)       | /LW50 |

**F1**

|                   |              |
|-------------------|--------------|
| 3.5W LED at 350mA | LD170-E3-350 |
| 5W LED at 500mA   | LD170-E3-500 |

**\*AUS/NZ:**  
Add - AU - suffix to the product code e.g.  
LD170-AU-C1-350

|                          |       |
|--------------------------|-------|
| Super Warm White (2200K) | /LW22 |
| Extra Warm White (2700K) | /LW27 |
| Warm White (3000K)       | /LW30 |
| White (4000K) on request | /LW40 |
| Cool White (5000K)       | /LW50 |

|                                                                                      |                                                                                     |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|    |  |
| 316 Stainless Steel                                                                  | /484S                                                                               |
|    |                                                                                     |
| Polished & Passivated 316 Stainless Steel (for marine environments)                  |                                                                                     |
|   |                                                                                     |
| Flamed Solid Bronze                                                                  |                                                                                     |
|  |                                                                                     |
| Machined Brass                                                                       |                                                                                     |
|  |                                                                                     |
| Paint Finish Black (RAL 9005)                                                        |                                                                                     |
|  |                                                                                     |
| Paint Finish White (RAL 9016)                                                        |                                                                                     |
|  |                                                                                     |
| Paint Finish RAL                                                                     |                                                                                     |

**Drivers**

Use with 350mA, 500mA constant current LED drivers  
We have a range of dimmable LED drivers DMX and DALI compatible.  
Please see the downloads section on our website.