

LD41
MINIATURE RECESSED LED UPLIGHT/
WALL LIGHT



CB | **RLE** | **R+R**



Our smallest fitting with a bezel diameter of just 34mm, the LD41 is a very tough, miniature fitting. It can be run up to 1.7W, and comes with a choice of beam angles making it suitable for a wide range of applications.



Design: P.L.C. Lighting Project: Demetra Hospice Product: LD41

KEY FEATURES

- > High-power C1 engine with NICHIA LED, delivering up to 188 lumens and CRI of 90+
- > Minimal bezel and recess depth producing, excellent diffused beam shape from a range of optics
- > Machined from a solid billet of stainless steel 316, also available in polished & passivated 316 stainless steel and powder coat paint finishes; White (RAL 9016), Black (RAL 9005), Classic Bronze (YM262E), Gunmetal Grey (RAL 7021) or any RAL colour
- > Can be used as an uplight or wall light and specified with frosted glass for indicator applications (a wide beam works best for this effect)
- > Fixing options include O-rings and a first fix sleeve or bonding directly into the mounting surface
- > Integral anti-wicking barrier increases protection against moisture ingress due to incorrect IP rated cable connections
- > Not designed for permanent submersion, please use our LD242A
- > Switched, 0-10V, Casambi, DMX, DALI or Mains dimmable drivers available

DIMENSIONS

Dimensions in mm

For detailed fixing dimensions please go to page 3.



WHITE LED ENGINE SPECIFICATION

| | | |
|---------------------------------------|--|-------|
| Engine |  C1 | |
| Beam angles | 12°, 31°, 48°, 12° x 36° | |
| LED manufacturer | NICHIA | |
| Colour temperature | 2200K / 2700K / 3000K / 4000K / 5000K | |
| Current | 350mA | 500mA |
| LED power (Max)** | 1.2W | 1.7W |
| Delivered lumens (L ₁₀₀)* | 108 | 141 |
| Lumens per circuit watt | 90 | 83 |
| Forward voltage (V ₁₀₀) | 3V | 3.2V |
| CRI (Typ) | 93 | |
| Colour consistency | 2 SCDM | |
| Peak intensity | 1145 cd | |
| LED Lumens | 157lm | |
| LOR | 0.91 | |
| TM30 | RF93 | RG99 |
| UGR*** | 19.2 | |
| LED lifetime | L90B5 at 90,000hrs | |
| Applications |  | |

This data is based on LD41-C1-500-LW30-NB

*Lumen output data applies to all colour temperatures

**Indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver

***UGR values based on room parameters of 4H 8H, C70 W50 F20

MECHANICAL

| | | |
|---|--|---------------|
| | 350mA | 500mA |
| Ambient temperature  55°C | -20°C to 55°C | -20°C to 55°C |
| Glass | 5mm thick borosilicate | |
| Materials | Machine finish, solid 316 stainless steel | |
| Weight of product | 0.015kg | |
| IP rating | IP68 - not for permanent submersion (use LD242A) | |

ENVIRONMENTAL

| | | |
|-----------------------------------|---|---|
| TM65 | Available on request | |
| TM66 | 2.7 | |
| 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. |
| RLE (REPLACEABLE LIGHT ENGINE) |   | Visit page 5 for replacement parts |

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 prevent corrosion and build up of brown stains caused by oxidation
- > Interior & exterior use



POLISHED & PASSIVATED
316 STAINLESS STEEL

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



PAINT FINISH - POWDER COAT

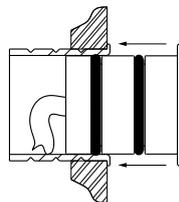
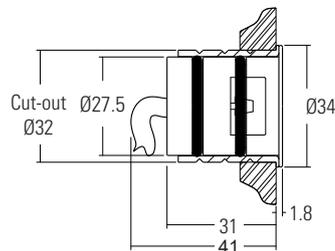
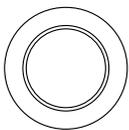
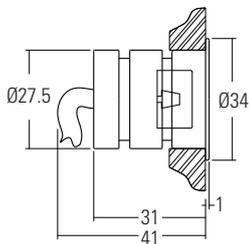
- > White (RAL 9016), Black (RAL 9005), Classic Bronze (YM262E), Gunmetal Grey (RAL 7021) and other RAL colours available
- > Smooth matt texture unless stated otherwise
- > Not recommended for footlights in high traffic areas
- > Interior & exterior use

DIMENSIONS AND FIXING ACCESSORIES

Dimensions in mm

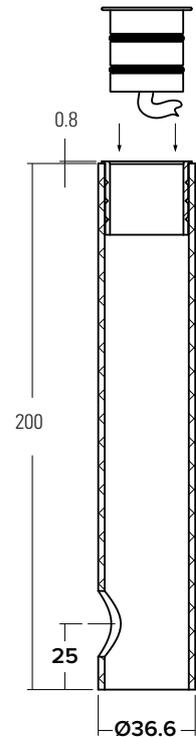
/480 O-rings and sleeve

A more robust and water tight method of fixing, for in ground applications.



/480GT Ground tube

The in-ground tube has been designed for applications where a recessed uplight is required in soil or gravel terrains. The tube can be buried with the necessary wiring, and then the fitting installed after the landscaping work has been completed. It is supplied with the fixing sleeve bonded into the tube, and can be cut down on site.



ORDER CODES & OPTIONS

Example: LD41-C1-700/LW30/MB/316 Stainless Steel/480

Light Engine & Drive Current

LED Colour

Beam Angle

Finish

Fixing & Accessories

LD41 - / / / /

Ambient temperature key: ● 55°C

WHITE LED ENGINES

○ **C1**

| | |
|-------------------|-------------|
| 1.2W LED at 350mA | LD41-C1-350 |
| 1.7W LED at 500mA | LD41-C1-500 |

| | |
|--------------------------|-------|
| Super Warm White (2200K) | /LW22 |
| Extra Warm White (2700K) | /LW27 |
| Warm White (3000K) | /LW30 |
| White (4000K) on request | /LW40 |
| Cool White (5000K) | /LW50 |
| Red | /LR |
| Green | /LG |
| Blue | /LB |
| Amber | /LA |

| | |
|-----------------|-----|
| 12° Narrow spot | /NB |
| 31° Medium | /MB |
| 48° Wide | /WB |
| 12 x 36° Oval | /OB |

| | |
|---|---|
|  | 316 Stainless Steel |
|  | Polished & Passivated 316 Stainless Steel (for marine environments) |
|  | Powder Coat Black (RAL 9005) |
|  | Powder Coat Classic Bronze (YM262E) |
|  | Powder Coat Gunmetal Grey (RAL 7021) |
|  | Powder Coat White (RAL 9016) |
|  | Powder Coat RAL |

| | |
|---|--------|
|  | /480 |
|  | /480GT |

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.