

## LD154-E3, LD154T-E3 & LD154DR-E3

In-Ground LED Uplighter



Install sheet - Page 1

### SPECIFICATION

LED recessed luminaires are class III for Safety Extra Low Voltage supply **500mA** and **700mA** constant current supply.

**Suitable for mounting on normally flammable surfaces.**

Lamp: **E3 LED Engine.**

This fitting is **IP67** rated.

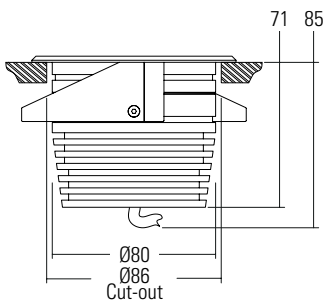
Lumen Maintenance: L90B5 at 90,000hrs.

#### LD154-E3

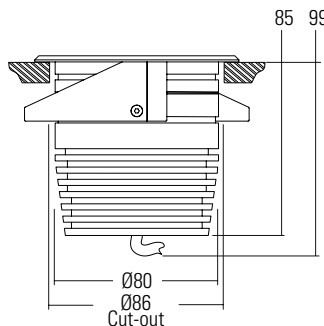
Product & LED Output Code	Power Output
LD154-E3, LD154T-E3 & LD154DR-E3 - 500	500mA 7W
LD154-E3, LD154T-E3 & LD154DR-E3 - 700	700mA 10W

### DIAGRAM

LD154 & LD154T - /SC

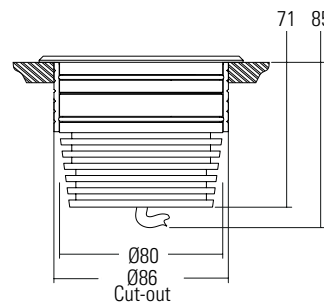


LD154DR - /SC

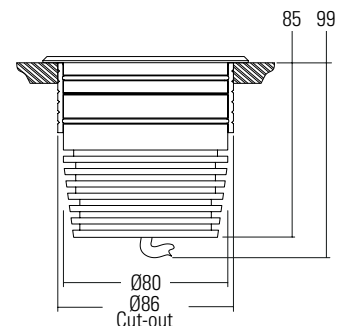


### DIAGRAM

LD154 & LD154T - /485S



LD154DR - /485S



### INSTALLATION

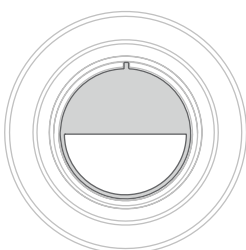
#### /SC

Spring Clips

1. Prepare cut out: Ø86mm
2. Feed cable through to the driver's location. Connect luminaire to the specified driver, ensuring it is disconnected from the mains side. **NOTE: Connections in wet environments. Make IP68 connection to stop water travelling up the cables into the fitting!**
3. Compress springs against the side of the fitting.
4. Rotate fitting anti-clockwise to allow the springs to bite into the mounting surface. This will help it stay securely in place.
5. Rotate the fitting so that the notch is at the furthest distance from the intended lit surface and perpendicular to the wall.
6. Confirm installation was successful by powering up the fitting. If there is no light output, switch off power immediately and verify wiring.

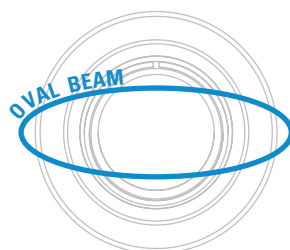
#### /GS

Glare Shield



#### /OB

Oval Beam Orientation



Wall/Lit Surface

### INSTALLATION

#### /485

Fixing Sleeve

1. Prepare cut out for fixing sleeve: Ø86mm (+1mm or +2mm)  
Bond in sleeve for a secure fit. **NOTE: Rotabond 2000, 3M 4200 Marine, Simson MSR, Sikaflex 221 adhesives recommended.**
2. Feed cable through to the driver's location. Connect luminaire to the specified driver, ensuring it is disconnected from the mains side. **NOTE: Connections in wet environments. Make IP68 connection to stop water travelling up the cables into the fitting!**
3. Grease O-rings with a heavy duty, silicone-free grease and place LD154 into sleeve. Failure to do so could hamper removal and cause damage to the fixing sleeve. Do not fully insert fitting into sleeve!
4. Rotate the fitting so that the notch is at the furthest distance from the intended lit surface and perpendicular to the wall. Once in a satisfactory orientation, push fittings fully into their sleeves.
5. Confirm installation was successful by powering up the fitting. If there is no light output, switch off power immediately and verify wiring.

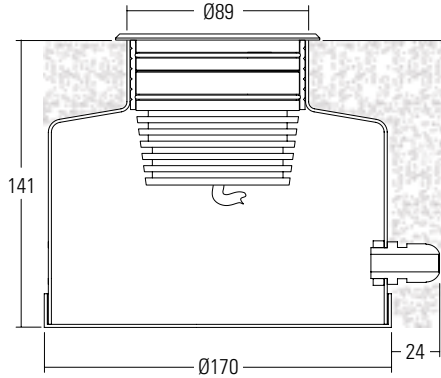
## LD154-E3, LD154T-E3 & LD154DR-E3

In-Ground LED Uplighter

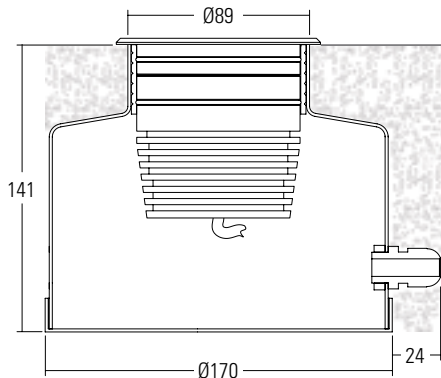
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### DIAGRAM

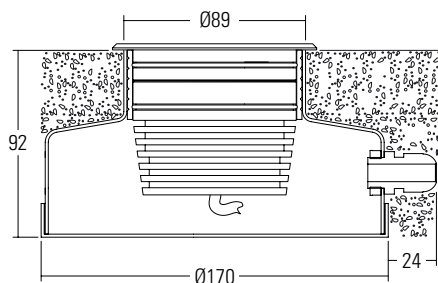
#### LD154 & LD154T - /486N (-2)



#### LD154DR - /486N (-2)



#### LD154 & LD154T - /485N (-2)



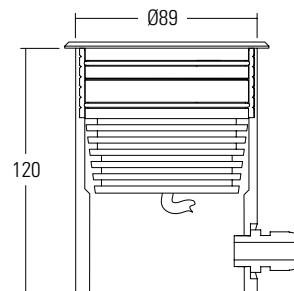
### INSTALLATION

#### /485N (-2), /486N (-2) & /485GT

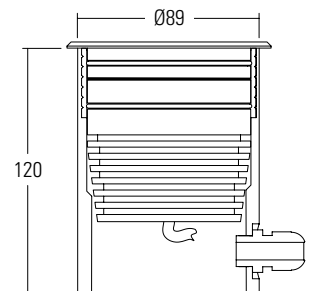
Concrete Can & Ground Tube

1. Remove luminaire from concrete housing/ground tube.
2. Place the concrete can/ground tube into the prepared area/cavity, this must be level. If the housing/tube requires bolster, ensure it is supported. Feed power cable through the gland and tighten. Allow enough excess cable for the connection required to the fitting, and to allow for the fitting to be removed from its housing.
3. These accessories are designed to be used primarily within concrete. They can be used in areas with loose / soft substrate but they must only be used within concrete for load bearing applications. Failure to do so, will cause structural and IP failure. If a secondary surface is going to be used ensure the concrete is offset by the specified material thickness.
4. Fill cavity with concrete. When pouring ensure as little material falls into the can as possible.
5. Wire the luminaire to a specified driver.  
**NOTE: Connections in wet environments. Make IP68 connection to stop water travelling up the cables into the fittings! Refer to IP connection sheet for further details.**
6. Make sure the inside of the fixing sleeve and the outside of the luminaire is free from grit and dirt.
7. Grease O-rings with a heavy duty, silicone-free grease and place LD154 into sleeve. Failure to do so could hamper removal and cause damage to concrete can. Do not fully insert fitting into sleeve!
8. Rotate the fitting so that the notch is at the furthest distance from the intended lit surface and perpendicular to the wall. Once in a satisfactory orientation, push fittings fully into their sleeves.
9. Confirm installation was successful by powering up the fitting. If there is no light output, switch off power immediately and verify wiring.

#### LD154 & LD154T - /485GT



#### LD154DR - /485GT



### SEE CONSTANT CURRENT WIRING SHEET FOR IN SERIES WIRING DIAGRAM

#### WIRING

Do not power up until fitting is wired correctly! Constant current LEDs must be wired in series, polarity is critical. Please refer to specified driver sheet for details on the minimum and maximum number of LEDs per circuit.

#### IMPORTANT

Make sure that all cables and connections are securely connected before switching on the power. Do not switch on the power source prior to making these connections as this will result in the LEDs being overvoltage, which can lead to failure of the LEDs and/or the driver. If the LEDs do not work upon power up, turn off the power source immediately and check the polarity of the wiring.

#### MAINTENANCE

CABLE: The external flexible cable shall only be replaced by the manufacturer if the cable is damaged.

LAMPS: The light source contained in this luminaire shall only be replaced by the manufacturer. Please clean with soft cloth and avoid harsh cleaning chemicals.

O-ring replacement part numbers: O-ring (17.0118)

CORE COLOUR & POLARITY		
Colour of Cable	Red	Black
Materials	+	-