

## LD154G-N1, LD154TG-N1 & LD154DRG-N1

In-Ground LED Uplighter



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### SPECIFICATION

LED recessed luminaires are class III for Safety Extra Low Voltage **DC** supply. The product should only be used with a supplied or LightGraphix approved **500mA or 700mA** constant current driver.

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

Lamp: **N1 LED Engine.**

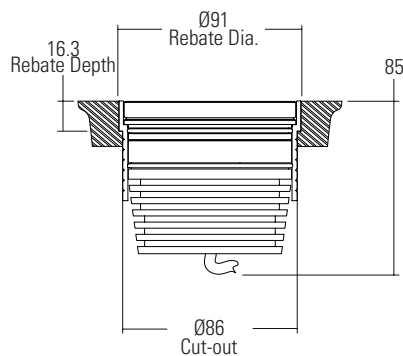
This fitting is **IP67** rated.

Lumen Maintenance: L90B5 at 90,000hrs.

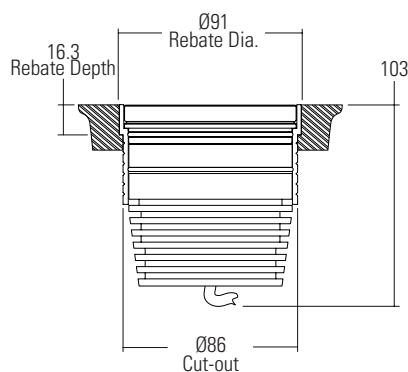
LD154G-N1	
Product & LED Output Code	Power Output
LD154G-N1, LD154TG-N1 & LD154DRG-N1 - 500	500mA 10W
LD154G-N1, LD154TG-N1 & LD154DRG-N1 - 700	700mA 14W

### DIAGRAM

#### LD154G & LD154TG - /485S-G

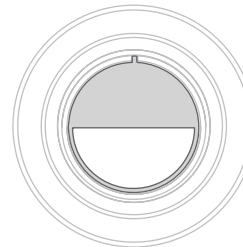


#### LD154DRG - /485S-G



#### /GS

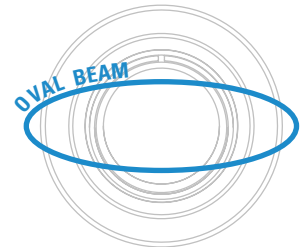
Glare Shield



Wall/Lit Surface

#### /OB

Oval Beam Orientation



Wall/Lit Surface

### INSTALLATION

#### /485S-G

Glass Top Rebate Sleeve

- Bore clearance hole (**MAX Ø86 Cut-out**) to suit dimensions below.
- When using /485S-G Fixing Sleeve, rebate the cut out hole, leaving 2.5mm ledge for the sleeve (recommended to use 24mm Rebater tool with 19mm bearing). If larger rebate is required, use alternative bearing. Rebate depth is 16.3mm. Bond in sleeve into the cut-out with one of the recommended adhesives; Rotabond 2000, 3M 4200 Marine Adhesive or Simson MSR Construction Adhesive. Ensure sleeve is flush with surface. Interior of sleeve must be free from any adhesive/ dust before pushing in fitting.
- Wire the luminaire to a specified driver.  
**NOTE:** When connections are to be made in wet environments. Make IP68 connection to stop water travelling up the cables into the fittings! Refer to IP connection sheet for further details.
- Ensure fitting has x1 O-ring only. Grease O-ring with a heavy duty, silicone-free grease.** Failure to do so could hamper removal and cause damage. **Interior of sleeve must be free from any adhesive/ dust before pushing in fitting.** When installing with a glare shield align fitting to desired orientation. Push the luminaire into the sleeve until flush with surface.
- Confirm installation was successful by powering up the fitting. If there is no light output, switch off power immediately and verify wiring.

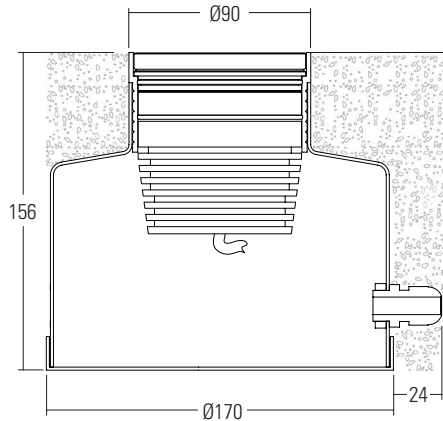
## LD154G-N1, LD154TG-N1 & LD154DRG-N1

In-Ground LED Uplighter

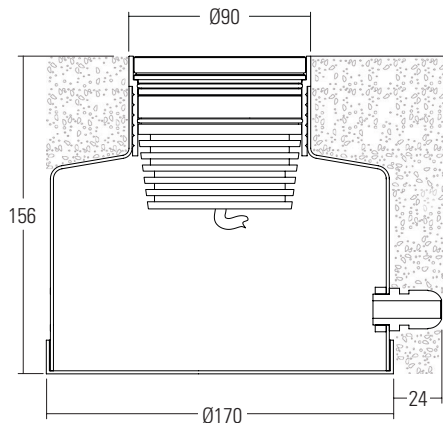
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### DIAGRAM

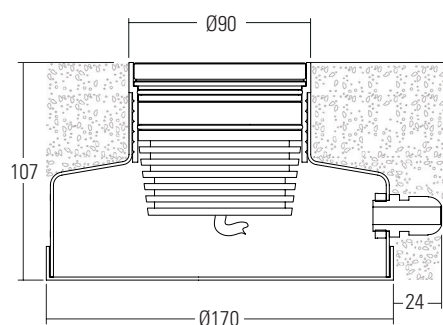
#### LD154DR - /486N (-2)



#### LD154G & LD154TG - /486N (-2)



#### LD154G & LD154TG - /485N (-2)



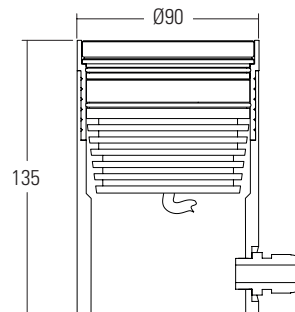
### INSTALLATION

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

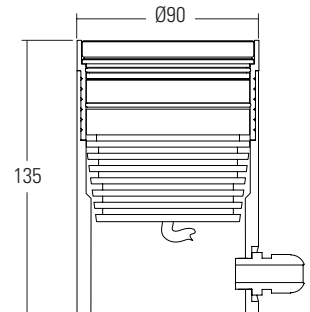
Concrete Can & Ground Tube

1. Make sure luminaire is not in concrete housing/ground tube before installation.
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. Pour concrete around concrete can/ground sleeve. 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.

#### LD154G & LD154TG - /485GT-G



#### LD154DRG - /485GT-G



## LD154G-N1, LD154TG-N1 & LD154DRG-N1

In-Ground LED Uplighter



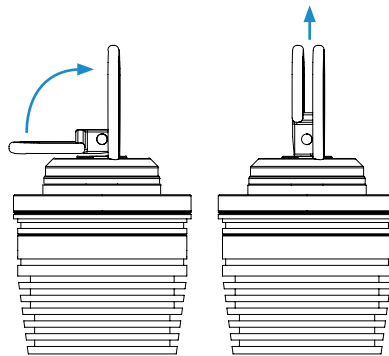
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### REMOVAL

For removal/adjustment please use the tool provided by LightGraphix. **NOTE: Contact our sales team for more information.**

1. Use /HT-154-G suction cup to remove fitting. Do not insert/use and dissimilar tool around edge of glass for removal as this will damage glass and/or void seal
2. Place the suction cup over the glass surface and lock in place by pulling the lever into vertical position.
3. Once secured, pull the fitting from its fixing accessory. Apply force vertically to ensure the suction cup does not detach.

When adjusting/rotating the fitting do not use the suction cup to move in situ. Remove the fitting entirely, realign and then place back into its fixing option. **NOTE: Rotating the fitting while still in place may result in a compromised IP seal.**



### 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	+	-