

## LD153

In-Ground LED Uplighter



Install sheet - Page 1

### SPECIFICATION

LED surfaced mounted luminaires are class III for Safety Extra Low Voltage **DC** supply. The product should only be used with a supplied or LightGraphix approved **350mA, 500mA or 700mA** constant current driver.

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

Lamp: **E3 or F1 LED Engine.**

This fitting is **IP67**.

Lumen Maintenance: L90B5 at 90,000hrs.

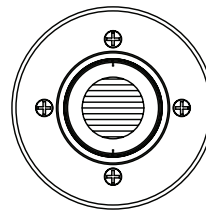
LD153 - E3			
Product & LED Output Code	Power Output	Max Ambient	Energy Class
LD153-E3-350	350mA 5W	-20°C to 50°C	D
LD153-E3-500	500mA 7W		E
LD153-E3-700	700mA 10W		E

\* 700mA Power Output only to be used with Concrete Can 441-N installed in concrete.

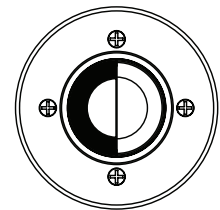
LD153 - F1			
Product & LED Output Code	Power Output	Max Ambient	Energy Class
LD153-F1-350	350mA 3.5W	-20°C to 50°C	G
LD153-F1-500	500mA 5W		
LD153-F1-700	700mA 7W		

\* 700mA Power Output only to be used with Concrete Can 441-N installed in concrete.

**/OB**  
Oval Beam

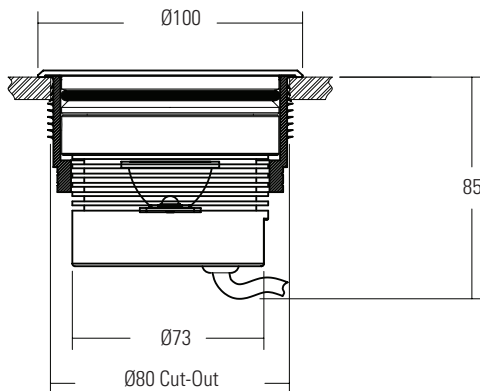


**Glare Shield**



### DIAGRAM

**/483S**



### INSTALLATION

**/483S**  
Fixing Sleeve

- The /483S first fix sleeve has a specially designed finned top to fix it into various surfaces.
- Bore clearance hole, see dimensions below.
- Push in /483S sleeve into the mounting surface. Apply a bead of silicon if a water tight seal is required.
- 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.**
- Make sure the inside of the /483S sleeve is free from grit, dirt and grease as well as the O-rings on the LD153.
- Insert the LD153 and check the orientation of the fitting. Please refer to the diagram below for the details about the correct orientation for the luminaire.
- Tighten each of the 4 screws in turn making sure that all are as tight as possible. Failure to do this will cause the fitting to leak!
- To remove fitting from the sleeve loosen all 4 screws and if needed push them down to release pressure on the seal. There is no need to take the fitting apart, doing so will void your guarantee.

## LD153

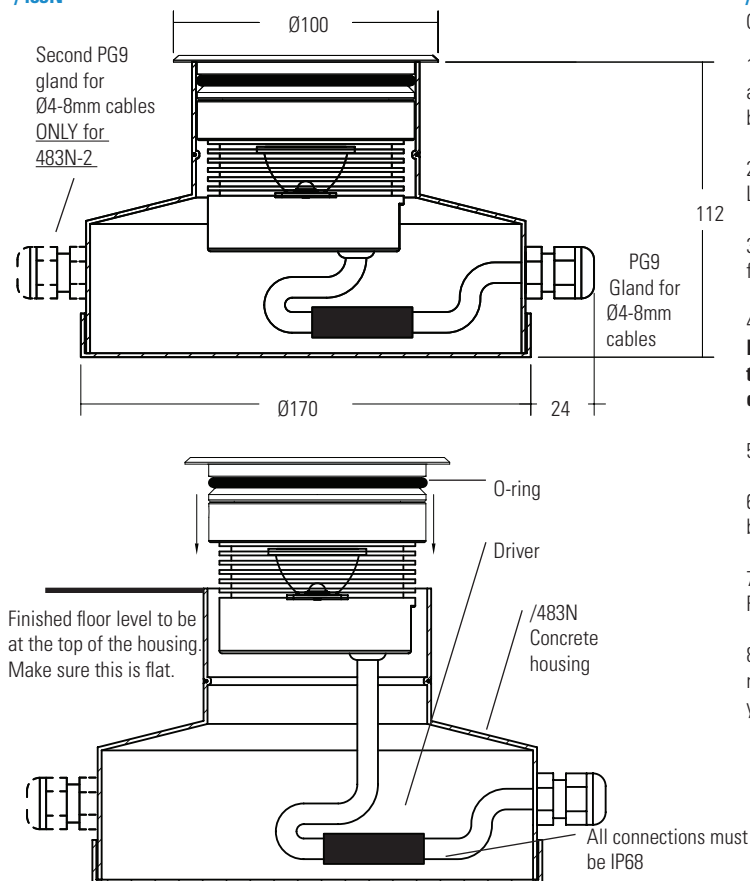
In-Ground LED Uplighter



Install sheet - Page 2

### DIAGRAM

/483N



### INSTALLATION

/483N

Concrete Can

1. These cans 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.
2. Feed cables through the gland and tighten allowing enough slack for connection to the LD153. Do this before casting in concrete.
3. Make sure that the finished floor level does not go above the top of the housing and is flat.
4. Connect luminaire to the specified driver. See driver sheet for connection details.  
**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.**
5. Ensure the inside of the /483N housing & O-rings are free from grit, dirt and grease.
6. Insert the LD153 and check the orientation of the fitting. Please refer to the diagram below for the details about the correct orientation for the luminaire.
7. Tighten each of the 4 screws in turn making sure that all are as tight as possible. Failure to do this will cause the fitting to leak!
8. To remove fitting from the can loosen all 4 screws and if needed push them down to release pressure on the seal. There is no need to take the fitting apart, doing so will void your guarantee.

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

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.

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

### IMPORTANT

Make sure that all cables and connections are securely connected before switching on the power. Failing to do this 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. Any attempt made to open up and/or modify the luminaire will invalidate the manufacturers warranty. The external cable of this luminaire cannot be replaced; if the cable is damaged the luminaire shall be destroyed. This is inclusive of but not limited to removal of the LightGraphix product label or removal of any parts from the main body of the product including bezels, electrical components and factory fitted fixing methods (unless otherwise stated in these instructions). Luminaire should be wired no further than 30 meters away from a SELV constant current LED driver (based on a 1mm squared cross sectional cable). Forward voltage of luminaire is 18VDC, if wired in series UOUT of LED driver and luminaire circuit should not exceed 60VDC. Terminal block not included. Installation must be performed by a qualified person. For connections made in dry environments 2 x Wago 221-2411 or connections with similar specifications are recommended. For damp or wet environments a connector of the same electrical specification but with a suitable IP rating should be used. The fitting guarantees a minimum static load resistance of 5kN. The rated maximum surface temperature is less than 100°C.

### END OF LIFE

This fitting contains a replaceable (LED only) light source, that must be replaced by a professional. If the product has come to the end of its life or is in need of repair please contact LightGraphix or your preferred recycling scheme.



### MAINTENANCE

Clean with soft damp cloth  
LED: Please contact LightGraphix  
O-ring replacement part numbers: Outer O-ring 17.0010.

### CONNECTION

- Wire Connection Method: Clamp
- No. of Positions: 1Way
- Rated Voltage: 450V
- Rated Current: 32A
- Wire Size (stranded): 18 - 14AWG

## LD153-E3 / 483N OR 483N-2 /ID

In-Ground LED Uplighter with Concrete Housing



Install sheet - Page 3

### 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 **350mA** OR **500mA** constant current driver.

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

Lamp: **E3 LED Engine.**

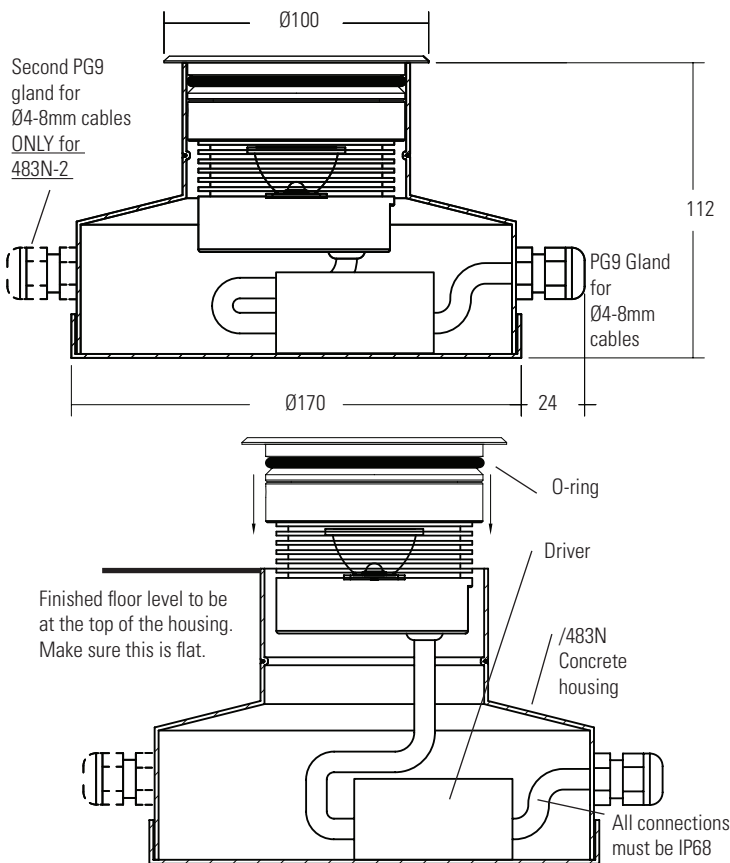
This fitting is **IP67** rated.

Lumen Maintenance: L90B5 at 90,000hrs.

LD153 - E3	
Product & LED Output Code	Power Output
LD153-E3 - 350	350mA 5W
LD153-E3 - 500	500mA 7W

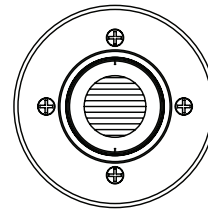
### INSTALLATION

1. These cans 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.
  2. Feed cables through the gland and tighten allowing enough slack for connection to the LD153. Do this before casting in concrete.
  3. Make sure that the finished floor level does not go above the top of the housing and is flat.
  4. Connect luminaire to the specified driver. If locating IP rated driver in can, connections must be IP68. See driver sheet for connection details.
- 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.**
5. Ensure the inside of the /483N housing & O-rings are free from grit, dirt and grease.
  6. Insert the LD153 and check the orientation of the fitting. Please refer to the diagram below for the details about the correct orientation for the luminaire.
  7. Tighten each of the 4 screws in turn making sure that all are as tight as possible. Failure to do this will cause the fitting to leak!
  8. To remove fitting from the can loosen all 4 screws and if needed push them down to release pressure on the seal. There is no need to take the fitting apart, doing so will void your guarantee.

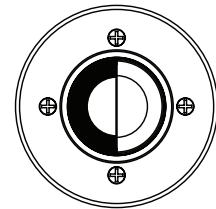


**/OB**  
Oval Beam

**Glare Shield**



Wall / Lit Surface



Wall / Lit Surface

### 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. Failing to do this 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. Any attempt made to open up and/or modify the luminaire will invalidate the manufacturers warranty. This is inclusive of but not limited to removal of the LightGraphix product label or removal of any parts from the main body of the product including bezels, electrical components and factory fitted fixing methods (unless otherwise stated in these instructions).

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

#### MAINTENANCE

Clean with soft damp cloth.  
LED: Please contact LightGraphix.