

Sollatek™

THE SOLLATEK SOLAR LIGHTING RANGE

Instruction manual

PLEASE READ CAREFULLY

Important: This manual contains important safety instructions.
Keep this manual handy for reference.



LUMINA



ECOLITE



STREETLIGHT BULKHEAD



OUTLITE



SOLLATEK (UK) LTD

UNIT 10 POYLE 14 INDUSTRIAL ESTATE,
NEWLANDS DRIVE, POYLE,
SLOUGH SL3 0DX,
UNITED KINGDOM

Tel: International +44 1753 688300 National 01753 688300

Fax: International +44 1753 685306 National 01753 685306

E-mail: sales@sollatek.com

www.sollatek.com

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INTRODUCTION

Sollatek DC lighting fixtures are designed with solar applications in mind. So, efficiency in every design has been optimised so that energy consumption is kept at a minimum ensuring maximum running time. This is done, whilst ensuring light output and overall performance are maximised. This range of lighting fixtures is equally suited to solar systems as a wide variety of different DC lighting applications where optimal performance and efficiency are required.

SOLLATEK SOLAR designs, manufactures and supports a wide variety of solar related products. Whilst being one of the world's largest suppliers of OEM products, the company also has extensive expertise in designing and producing bespoke solar systems which are currently being utilised worldwide.

For further details, please see www.sollatek.com.

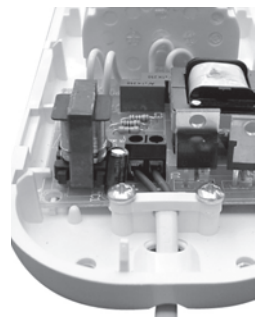
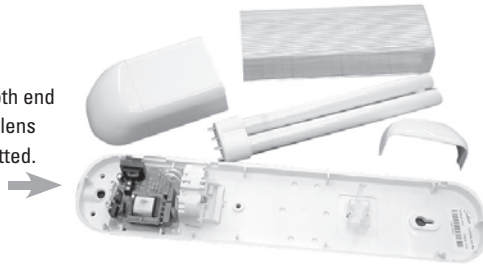
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THE SOLLATEK LUMINA 12 OR 24V DC LIGHTING UNIT

INSTALLATION

1. Remove both end covers, clear lens and lamp, if fitted.



2. Please ensure the supply is of the correct voltage / rating for your Sollatek dc light fixture. Strip 5mm of installation from the cable. Feed the cable through the entry hole in the base and connect to the terminal block marked + observing correct polarity. (red/brown is normally '+', black/blue is normally '-'). Fit the cable clamp as shown.

3. Replace the large end cover over the electronics and secure to the base using two screws supplied.

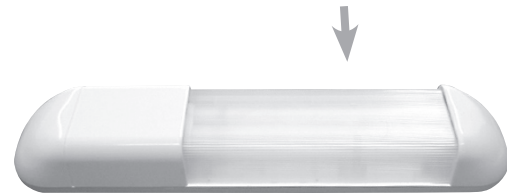


4. Using a further two suitable screws (not supplied), attach the light to the wall or ceiling as required.



5. Insert the lamp until it clicks into place and slide on the clear lens.

6. Attach end covers, clear lens and lamp to complete the installation.



SAFETY

The standard Lumina light is designed to operate from an input voltage of 12VDC, 24VDC or 48VDC: high ac voltages are present at the lamp socket during operation and so due care should be taken at all times.

Please ensure your Sollatek DC light fixture is installed safely and in accordance with local electrical installation regulations. If unsure, contact a fully qualified electrician.

WARNING

The lamps contain mercury vapour, which could be harmful if the lamp is broken and the gases inhaled. Due care and attention should be taken when disposing of dead lamps and only Sollatek approved fluorescent tubes should be fitted as replacements.

WARRANTY

The Lumina light is covered by a two year worldwide warranty. If any problems should occur within this time, please contact your local dealer or nearest Sollatek support centre.

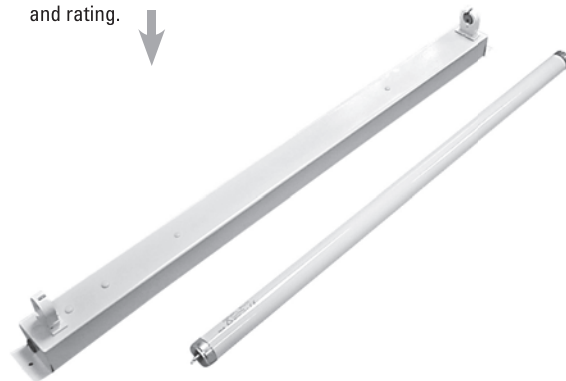
THE SOLLATEK ECOLITE DC LIGHTING UNIT

INSTALLATION

The Installation and operational guidelines covers the Sollatek range of EcoLite DC lighting units. These are of the straight fluorescent tube variety.

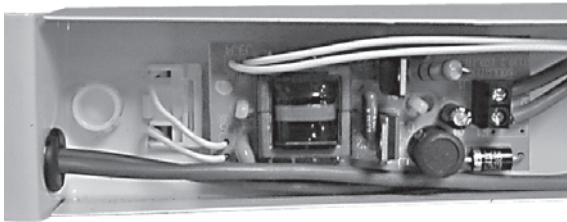


1. Unpack your Sollatek EcoLite and fluorescent tube of the correct size and rating.



2. Please ensure the supply is of the correct voltage / rating for your Sollatek dc light fixture.

Feed cable of appropriate wire gauge into the lamp housing through the cable gland at the back of the lamp. Then, after stripping 5mm of cable and ensuring the correct polarity of the connections, terminate the cable in the screw terminals as indicated in the below picture.



3. Mount your EcoLite securely in the desired location using the two pre-drilled mounting holes at each end of the lamp housing. Insert the fluorescent tube and lock in position by twisting by ninety degrees.

Ensure that the correct voltage and wire gauge have been used and that the cable run is in accordance with the requirements of your installation. If unsure, please contact Sollatek for further details. Your EcoLite is now ready for use.

SAFETY

The standard EcoLite is designed to operate from an input voltage of 12Vdc, or 24Vdc: high ac voltages are present at the lamp socket during operation and so due care should be taken at all times.

Please ensure your Sollatek DC light fixture is installed safely and in accordance with local electrical installation regulations. If unsure, contact a fully qualified electrician.

WARNING

The lamps contain mercury vapour, which could be harmful if the lamp is broken and the gases inhaled. Due care and attention should be taken when disposing of dead lamps and only Sollatek approved fluorescent tubes should be fitted as replacements.

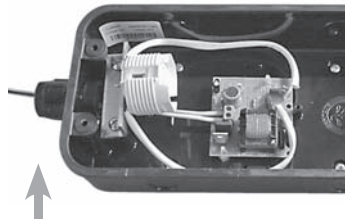
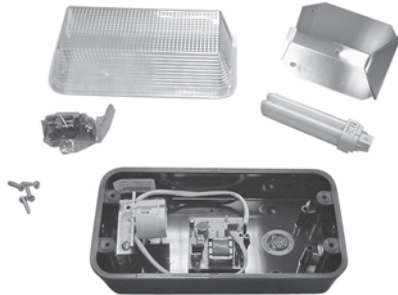
WARRANTY

The EcoLite is covered by a two year worldwide warranty. If any problems should occur within this time, please contact your local dealer or nearest Sollatek support centre.

THE SOLLATEK OUTLITE 12, 24 OR 48 V

INSTALLATION

1. Remove transparent plastic cover - 4 screws. Remove the lamp and reflector. Please ensure your supply is of the correct voltage for your OutLight.



2. Please ensure the supply is of the correct voltage / rating for your Sollatek DC light fixture. Insert the cable gland into the hole provided in the base and tighten. Having made sure the cable is not live, pass it through the cable gland and connect to the terminal block provided, making sure to observe the correct polarity. Red/brown is normally (+) and black/blue is normally (-).

3. Pierce holes in the four mounting feet in the light base and secure tightly to the wall or ceiling. Refit reflector and 18W compact fluorescent lamp.



4. Refit the transparent plastic cover, ensuring the seal sits neatly before tightening. Note: Take care not to overtighten.



NOTE:

This unit is built to IP65. In order to maintain this standard, it is necessary to ensure that all wall securing screws and the cable entry via the cable gland are sealed with silicone sealant.

Also, ensure the cable has a downward loop prior to entry to assist external drainage. The OutLite should not be installed in direct sunlight.

SAFETY

The standard OutLite is designed to operate from an input voltage of 12Vdc, or 24Vdc or 48Vdc: high ac voltages are present at the lamp socket during operation and so due care should be taken at all times.

Please ensure your Sollatek DC light fixture is installed safely and in accordance with local electrical installation regulations. If unsure, contact a fully qualified electrician.

WARNING

The lamps contain mercury vapour, which could be harmful if the lamp is broken and the gases inhaled. Due care and attention should be taken when disposing of dead lamps and only Sollatek approved fluorescent tubes should be fitted as replacements.

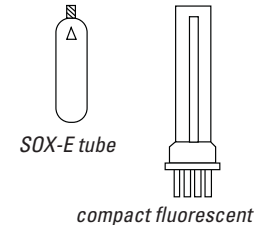
WARRANTY

The OutLite is covered by a two year worldwide warranty. If any problems should occur within this time, please contact your local dealer or nearest Sollatek support centre.

THE SOLLATEK STREETLIGHT BULKHEAD DC LIGHTING UNITS

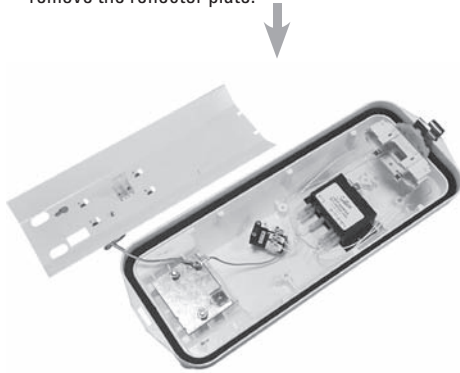
INSTALLATION

The installation and operational guidelines for the Sollatek range of StreetLight style bulkhead lamps includes both the compact fluorescent and sodium SOX-E designs.



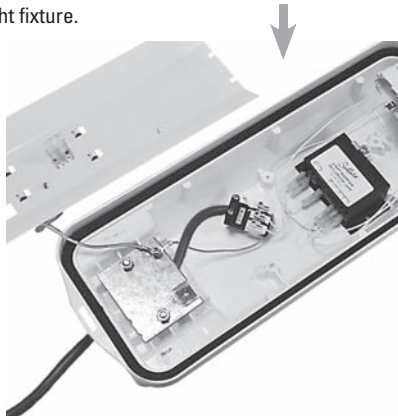
1. Unclip clear cover and lower by means of hinge clips and remove the lamp.

2. Loosen the reflector plate screw and remove the reflector plate.



3. Please ensure the supply is of the correct voltage / rating for your Sollatek dc light fixture.

Pass the cables into the bulkhead through the slit entry seal. Then replace the reflector and lamp.

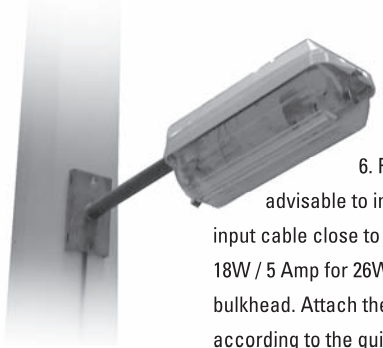


4. Re-install the reflector plate and tube. Loosen the two M6 nuts on the U- bolt at the rear of the bulkhead.



5. Install the bulkhead onto the column spigot or bracket and tighten the M6 hexagonal nuts alternately to secure. Ensure that each nut is tightened evenly. (Torque = 4 Nm) .

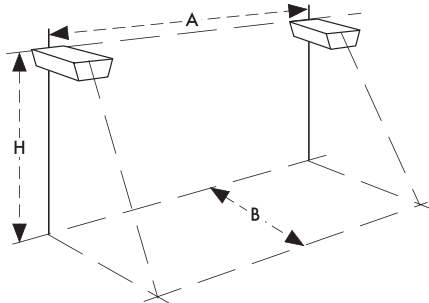
Important: Safety: Please ensure your Sollatek StreetLight bulkhead is secured tightly to the mounting fixture.



6. Replace the clear cover. It is advisable to instal a fuse on the positive DC input cable close to the battery terminal. (3 Amp for 18W / 5 Amp for 26W and 36W). Close and secure the bulkhead. Attach the bulk head to a suitable support according to the guidelines below .

POSITIONING THE BULKHEAD

Mounting height (H)	Spacing (A)	Effective distance from the wall / post illuminated (B)
3 m	12 m	6 m
3.5 m	14 m	7m
4 m	16 m	8m
4.5 m	18 m	9m
5 m	20 m	10m
5.5 m	18 m	9m
6 m	16 m	8m



NOTES ON CABLE THICKNESS

To indicate the maximum recommended cable lengths for use with a single lamp, please refer to the table below, showing the maximum lengths for 1.5mm² and 2.5mm² squared cross sectional area. Divide the distance by the number of lamps to get the new maximum distance when installing multiple lights from the same spur. If unsure, contact Sollatek for further details.

12VDC SYSTEMS

Cable thickness	SLB18PL	SLB36PL	SLB18SX	SLB26SX
1.5mm	15m	8m	14m	9m
2.5mm	25m	13m	22m	14m

24VDC SYSTEMS

Cable thickness	SLB18PL	SLB36PL	SLB18SX	SLB26SX
1.5mm	63m	33m	55m	36m
2.5mm	102m	53m	88m	56m

TROUBLESHOOTING

Symptom	Cause	Solution
Lamp not operating	<ul style="list-style-type: none"> Incorrect input voltage Blown fuse Dead or broken lamp Reverse polarity connection High input voltage 	<ul style="list-style-type: none"> Check input voltage Establish cause and replace fuse Replace lamp Re wire, noting +and -
Dim tube	<ul style="list-style-type: none"> Incorrect voltage input Incorrect tube wattage lamp not securely fitted Bad electrical connection 	<ul style="list-style-type: none"> Check voltage Replace with correct lamp Fit correctly Check wiring for faults
Flickering tube	<ul style="list-style-type: none"> Bad electrical connection Lamp not securely fitted 	<ul style="list-style-type: none"> Check wiring for faults Fit correctly

SAFETY

The standard DC StreetLight is designed to operate from an input voltage of 12VDC, or 24VDC: high ac voltages are present at the lamp socket during operation and so due care should be taken at all times.

Please ensure your Sollatek DC light fixture is installed safely and in accordance with local electrical installation regulations. If unsure, contact a fully qualified electrician.

WARNING

The fluorescent tubes and sodium lamps contain gases, which could be harmful if the lamp is broken and the gases inhaled. Due care and attention should be taken when disposing of dead lamps and only Sollatek approved fluorescent tubes should be fitted as replacements.

WARRANTY

The StreetLight is covered by a two year worldwide warranty. If any problems should occur within this time, please contact your local dealer or nearest Sollatek support centre.



SOLLATEK (UK) LTD

UNIT 10 POYLE 14 INDUSTRIAL ESTATE,
NEWLANDS DRIVE, POYLE,
SLOUGH SL3 0DX,
UNITED KINGDOM

Tel: International +44 1753 688300 National 01753 688300

Fax: International +44 1753 685306 National 01753 685306

E-mail: sales@sollatek.com

www.sollatek.com

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