

## SINGLE & TWIN POLE LITE, TIER LITE, BORDER LITE & BORDER LITE TWIN HALOGEN LUMINAIRES INSTALLATION INSTRUCTIONS

**NOTE: THESE INSTRUCTIONS MUST NOT CONTRAVENE YOUR LOCAL ELECTRICAL AUTHORITY REGULATIONS, WITH WHICH ALL INSTALLATIONS HERE IN MUST COMPLY. PLEASE KEEP INSTRUCTIONS FOR FUTURE REFERENCE.**

Run the low voltage cable from the transformer (if the transformer is to be buried - installation of the transformer must be carried out by a licenced electrician to meet local Electrical Authority Regulations) in flexible conduit. Make a waterproof connection using heavy walled adhesive lined heat shrink between the luminaire cable and the supply cable.

**Warning:** Take care to place luminaire in a suitably safe position, due to operating temperature of the luminaire.

**Warning:** when inserting the fixture into the ground apply force only to the top of the pole (DO NOT apply any reassurance to the head or the connecting arm).

**Recommendation:** Run all low voltage cables in flexible conduit for extra protection. Use Hunza Cable Joint Kit CJK#150. It is recommended that high quality lamps are used when replacing lamps. Do not over tighten lens ring as this will make removal difficult and may cause lamp to break.

### LAMP CHANGING

**CAUTION:** Make sure that the power to the luminaire is switched off before attempting to change the lamp. Beware of hot luminaire and lamp. Make absolutely sure when changing lamps that the correct wattage lamp is installed. Incorrect wattage lamps may cause HUNZA™ IG series transformers to overload causing the transformers to heat up and turn the l luminaires off and on.

**Tier Lite:** To remove hood - hold the metal ring on the lens (do not use the hood) to screw on or unscrew hood and lens to gain access to lamp holder. Make sure gasket is free of any dirt before refitting hood.

**Border Lite:** Carefully remove the four screws from the face plate and replace capsule. Make sure gasket is free of any dirt before refitting face plate. Do not over tighten screws as this makes it very difficult to remove the screws in the future.

**TIER LITE, BORDER LITE & BORDER LITE TWIN WARNING:** Do not touch halogen capsule with bare fingers, leave plastic bag over the capsule & push into the lamp holder. Then remove plastic bag before switching fitting on. Tier lite, Border Lite & Border Lite Twin maximum 20 watt Halogen Capsules.

### Lamp Changing Sequence (MR16)

Only use MR16 lamps where the glass cover sits below the lip of the lamp. Unscrew lens ring, remove gasket and lens. Pull lamp forward until the ceramic lamp holder appears. Hold lamp holder in one hand and remove lamp with other hand very carefully. Do not touch the glass capsule in the middle of the reflector when pushing the lamp back into the ceramic lamp holder. When replacing gasket and lens, make sure there is no dirt or grit on the gasket. Dirt or grit on the gasket may cause luminaire to leak.

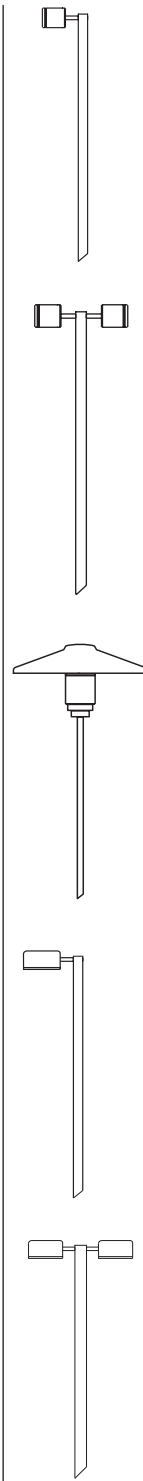
### Gasket and lens sequence (Not Tier Lite)

Place lens on top of lamp and put orange gasket on top of lens. Screw on lens ring.

### GLARE GUARD INSTALLATION (POLE LITES)

Carefully remove lens ring making sure not to drop the glass lens and cause damage to it, keeping gasket in place. Hold body of luminaire tightly and screw Glare Guard ring onto light luminaire. Still holding body of luminaire tightly rotate glare guard to desired position.

**Stainless Steel Maintenance:** To maintain the finish of 316 stainless steel it is recommended to wash the luminaire with fresh water from time to time to stop salt and corrosive elements building up. If tea staining appears, a commercially available stainless steel cleaner is recommended to remove this. Electro polishing is recommended in this situation but the fitting will still require regular maintenance. Even an electro polished stainless steel fixture under an eave or roof will suffer from the build up of salt deposits as it will not be washed away by rain.



## SINGLE & TWIN POLE LITE, TIER LITE, BORDER LITE & BORDER LITE TWIN RETRO™ HALOGEN LUMINAIRES INSTALLATION INSTRUCTIONS

**NOTE: THESE INSTRUCTIONS MUST NOT CONTRAVENE YOUR LOCAL ELECTRICAL AUTHORITY REGULATIONS, WITH WHICH ALL INSTALLATIONS HERE IN MUST COMPLY. PLEASE KEEP INSTRUCTIONS FOR FUTURE REFERENCE. MUST BE INSTALLED BY A LICENCED ELECTRICIAN**

**CAUTION:** Do not insert the fitting too far into the ground. Maximum depth must not exceed 180mm (7"). Ensure that all line voltage connections are well above ground level inside the pole.

Make a slurry of concrete, make sure the conduit is protruding out of the concrete slurry and there is at least 500mm of cable protruding out of the conduit. Unscrew the grub screws and remove the bottom section of tube below the lamp holder section and push it into the concrete slurry over the conduit and pull the cable through the tube. Make sure that there is concrete in the bottom of the pole and that the pole is vertical before the concrete sets. There must be concrete in the bottom of the tube to stop moisture build up. Unscrew the orange PVC connection on the bottom of the lamp holder section and slide it over the 230/240 volt supply cable. Connect the phase (active) wire to the RED wire of the luminaire and neutral wire to the BLACK wire of the luminaire. Screw the orange PVC connection back onto the orange nipple of the luminaire and fit the lamp holder section onto the tube using the stainless steel grub screws provided.

**Warning:** We recommend when connecting to photocells and timers that the outputs of these devices be a relay output and not an electronic output. This is due to the high frequency output of these devices which can lead to failure of the internal driver.

**Warning:** when inserting the fixture into the ground apply force only to the top of the pole (DO NOT apply any pressure to the head or the connecting arm).

**DO NOT** connect in close proximity to inductive loads. eg. air conditioning systems, water pumps etc. without appropriate mains filtering. Use a suppression interface module for every six luminaires connected to the circuit.

**DO NOT** connect to a circuit that has an electronic soft start motor starter on it.

**DO NOT** connect to any Electronic Home Automation System without checking with the systems Manufacturer that it is suitable for the control of this HUNZA™ fixture. **DO NOT** water blast/jet wash this fixture under any circumstances.

**Warning:** If two 50 watt lamps are installed the luminaire will not operate, the electronic transformer has a built in safety shut down system that will not switch the lamps on when the power is applied. If this situation occurs -a) Switch power off. b) Remove lamps and replace with two 20 watt lamps & switch power on.

**Warning:** Take care to place luminaire in a suitably safe position, due to operating temperature of the luminaire.

**NOTE:** Due to the nature of electronics, the ambient temperature of the installation location must be considered carefully as the luminaire may not operate reliably at temperatures below -8°C (18°F).

### LAMP CHANGING

**CAUTION:** Make sure that the power to the luminaire is switched off before attempting to change the lamp. Beware of hot luminaire and lamp. Make absolutely sure when changing lamps that the correct wattage lamp is installed i.e. 50 watt lamps are most common however RETRO™ luminaires e.g. Twin Pole Lite and luminaires wired to HUNZATM IG40 transformers all have 20 watt lamps installed. Incorrect wattage lamps may cause the transformers to either - in the case of the RETRO™ luminaires not to illuminate due to overload and in the case of the HUNZATM IG series transformers overloading will cause the transformers to heat up and turn the luminaires off and on.

**TIER LITE, BORDER LITE & BORDER LITE TWIN WARNING:** Do not touch halogen capsule with bare fingers, leave plastic bag over the capsule & push into the lamp holder. Then remove plastic bag before switching fitting on.

### Lamp Changing Sequence (MR16)

Only use MR16 lamps where the glass cover sits below the lip of the lamp. Unscrew lens gasket and lens, make sure there is no dirt or grit on the gasket. Dirt or grit on the gasket may cause luminaire to leak.

### Gasket and lens sequence (Not Tier Lite)

Place lens on top of lamp and put orange gasket on top of lens. Screw on lens ring. It is recommended that high quality lamps are used when replacing lamps. Do not over tighten lens ring as this will make removal difficult and may cause lamp to break.

### GLARE GUARD INSTALLATION (POLE LITES)

Carefully remove lens ring making sure not to drop the glass lens and cause damage to it, keeping gasket in place. Hold body of luminaire tightly and screw Glare Guard ring onto light luminaire. Still holding body of luminaire tightly rotate glare guard to desired position.

**Stainless Steel Maintenance:** To maintain the finish of 316 stainless steel it is recommended to wash the luminaire with fresh water from time to time to stop salt and corrosive elements building up. If tea staining appears, a commercially available stainless steel cleaner is recommended to remove this. Electro polishing is recommended in this situation but the fitting will still require regular maintenance. Even an electro polished stainless steel fixture under an eave or roof will suffer from the build up of salt deposits as it will not be washed away by rain.

