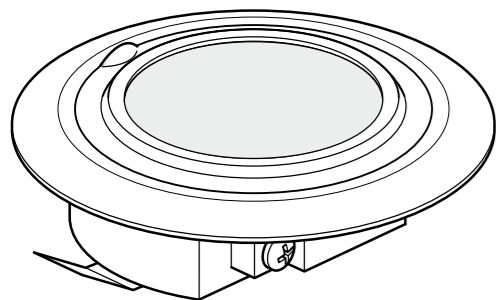




Downlight luminaires

Installation & maintenance guide

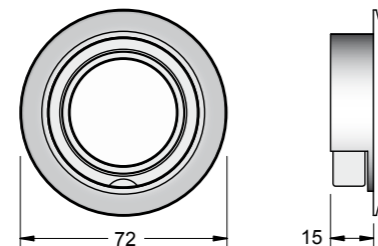
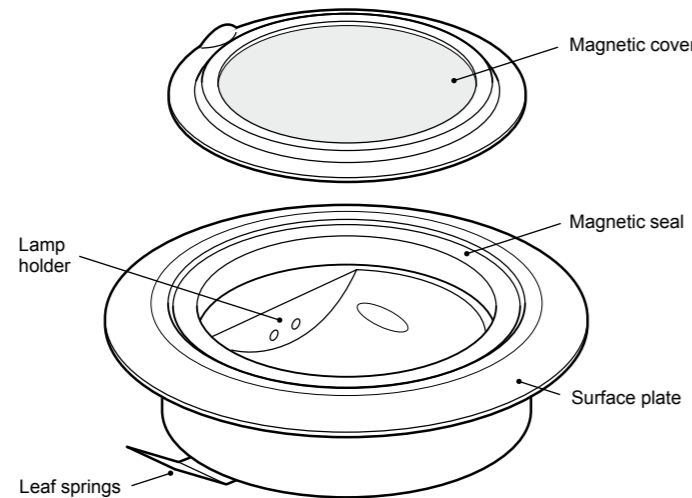


Undershelf

For illustration purposes the **12V Undershelf** is shown as a typical example.

This luminaire MUST be installed by a qualified electrician.
Read these instructions carefully. Once installation is complete give them to the person responsible for general maintenance and cleaning. Please keep these instructions for future reference.

1 Undershelf



2 Technical data

IP 54 This luminaire has an IP 54 rating.

III Class 3 product.

0.5m Must not be closer than 0.5m from the illuminated surface.

F Suitable for installation on flammable surfaces.

Luminaire	Cut-out	Lamp	Lamp cap	Circuit
Undershelf	65mm	Capsule 10-20w	G4	12v
Undershelf LED	65mm	350mA 1W LED	G4	350mA

The Light Corporation recommends using the Osram Mini Star capsule lamp. Osram part nos. 50110 - 10w and 50120 - 20w.

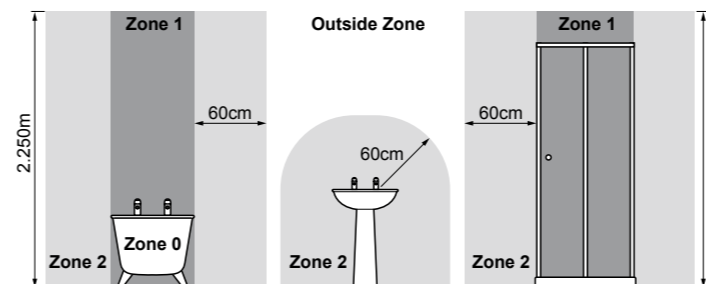
Lamp	Cable size in mm ²		
	1.0	1.5	2.5
10-20w	4.3m	6.4m	10.6m

Use correct cable size depending on lamp wattage. The dimensions above (metres) refer to the max distance from the transformer to the luminaire. The Light Corporation recommend solid core high temperature cable for the successful installation of this luminaire. This table is indicative only for the purpose of providing a guideline, it is ultimately the responsibility of the installer to ensure that the correct cable size and type is used in conjunction with the transformer mounted at the appropriate distance from the luminaire.

3 Zones

For use in all Zones - **except 'Zone 0'**.

Note: Not for use with waterjets.



Guarantee

The Light Corporation Ltd ("We") guarantee this product in the UK for 12 months from date of purchase. This guarantee is invalid if the product is installed in an improper working environment or not according to current I.E.E Wiring Regulations (BS7671), for improper use or has been tampered with in any way. Should this product fail during the guarantee period it will be replaced free of charge, subject to correct installation and return of the faulty unit. We do not accept responsibility for any installation costs associated with the replacement of this product. We reserve the right to alter specifications without prior notice. This does not affect your statutory rights.

4 Warnings!

WARNING! - TO PREVENT ELECTRIC SHOCK - Always switch off electricity supply and circuit breaker or withdraw the fuse before installation and maintenance.

- **NEVER** alter the luminaire in anyway from its original specification.
- **IMPORTANT** ensure free air movement around the luminaire. Remove any insulation material from at least 100mm around the hole.
- **NEVER** cover the luminaire with insulating or similar materials.
- Install luminaire in accordance with building regulations and the current edition of the IEE wiring regulations (BS 7671: Requirements for electrical installations).
- Check for hidden pipes and cables before installation.
- The lamp and metal surrounding the lamp can get very hot during use. DO NOT locate luminaire where it could be accidentally touched during operation.
- Due to the high temperatures produced by this luminaire, cable within 400mm must be High Temperature Rated Silicone.
- Allow the luminaire to cool before replacing lamp or starting maintenance.
- Disconnect luminaire from mains supply or transformer before service, maintenance or lamp replacement.
- Transformers must be located a minimum of 100mm away from the luminaire.
- Due to the expansion rates of different materials used during manufacture, it is common for the luminaire to 'click' when cooling.

5 Warnings!

- Use correct wattage and lamp type. **NEVER** exceed the wattage stated.
- Take care when using power tools, follow the safety instructions provided with them.
- This luminaire qualifies as WEEE and should be disposed of accordingly.
- **DO NOT** dispose of this luminaire with normal household waste, take to a local authority recycling centre.
- Dispose of used lamps responsibly.
- Dispose of packaging correctly after installation.



Transformers
The luminaire **MUST** be connected to a transformer and not directly to the mains electricity supply.

We recommend one Light Corporation transformer per luminaire: Part No. 9124 000.

Tools required: Suitable size hole cutter, Philips screwdriver,
Small flat-blade electrical screwdriver.



WARNING! - TO PREVENT ELECTRIC SHOCK - Always switch off electricity supply and circuit breaker or withdraw the fuse before installation and maintenance.

If replacing an existing luminaire, make a note of the connections.

1. Cut the correct sized hole in the required position:
65mm diameter hole with a minimum depth of 18mm.

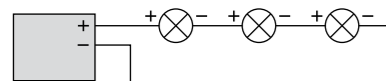
IMPORTANT! Avoid any joists, pipes or cables beneath the surface.

2. Install the transformer in accordance with IEE electrical regulations (BS 7671). Follow the safety and installation instructions supplied with the transformer.

IMPORTANT! Ensure correct rating transformer or driver is used for the total lamp wattage.

12V - The luminaire MUST be connected to a transformer and not directly to the mains electricity supply. We recommend one Light Corporation transformer per luminaire (Part No. 9124 000). Electronic transformers for halogen lamps need a minimum load to operate, e.g. a 20-60VA transformer requires a minimum load of 20w.

LED - 350mA Constant Current LED drivers must be used with the LED version Part No. 9601-000, and multiple luminaires must be wired in series (Max 3 fittings per driver).



LED Wiring Diagram - Constant Current must be wired in series

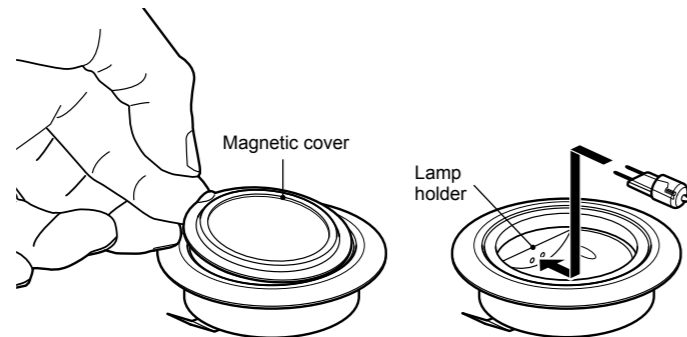
3. Prepare the supply cables from the transformer by stripping the outer sheath of the installation, leaving 6 - 8mm of conductor. The stripped ends need to be 'tinned' or 'ferruled' allowing them to be inserted fully into the connectors on the back of the luminaire. Failure to do this may cause 'arcing' within the connectors creating overheating and ultimately failure of the luminaire.

4. Remove the magnetic cover.

Ease the lamp into holder, with a gentle rocking motion, until fully inserted.

IMPORTANT! Do not hold the lamp directly, hold using the packaging or a cloth, wipe clean once fitted.

Replace the magnetic cover.

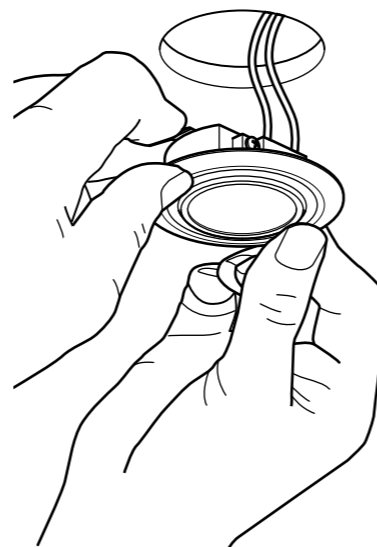


5. Push-fit the 'tinned/ferruled' wires from the transformer into the connectors on the back of the luminaire (no earth connection required).

Ensure the connections are tight.

6. Push the luminaire into the cut-out, allowing the leaf springs to hold it securely in position.

Installation is now complete.



WARNING! - TO PREVENT ELECTRIC SHOCK - Always switch off electricity supply and circuit breaker or withdraw the fuse before maintenance.

CAUTION! - The lamp may be hot. Leave to cool before replacing, cleaning or making adjustments.

Replacing the Lamp

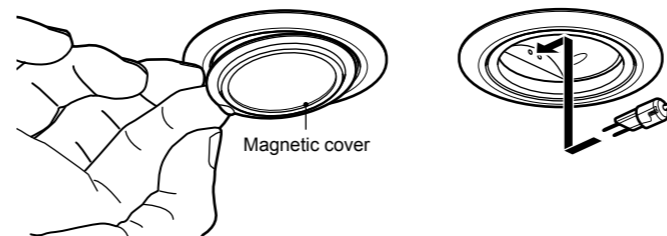
IMPORTANT! Make sure the replacement lamp is the exact specification as stated in this guide under section 2 Technical Data.

Turn off the light at the wall switch. Remove the magnetic cover and carefully remove the lamp.

Fully insert the replacement lamp into the holder using a careful rocking motion.

IMPORTANT! Do not hold the lamp directly, hold using the packaging or a cloth, wipe clean once fitted.

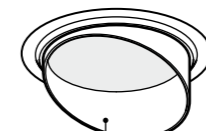
Re-fit the magnetic cover.



Cleaning

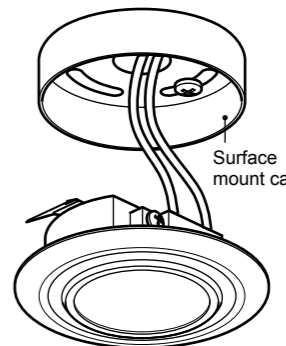
Only use a soft damp cloth when cleaning.

Eyelid scoops (8202)



Eyelid scoop

Surface mount cans (8203)



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