

# IP44 OPAL GLASS FLUSH FITTING INSTALLATION INSTRUCTIONS


These instructions are provided for your safety.

Please read them carefully before commencing work and retain them for future reference.

## SAFETY INFORMATION

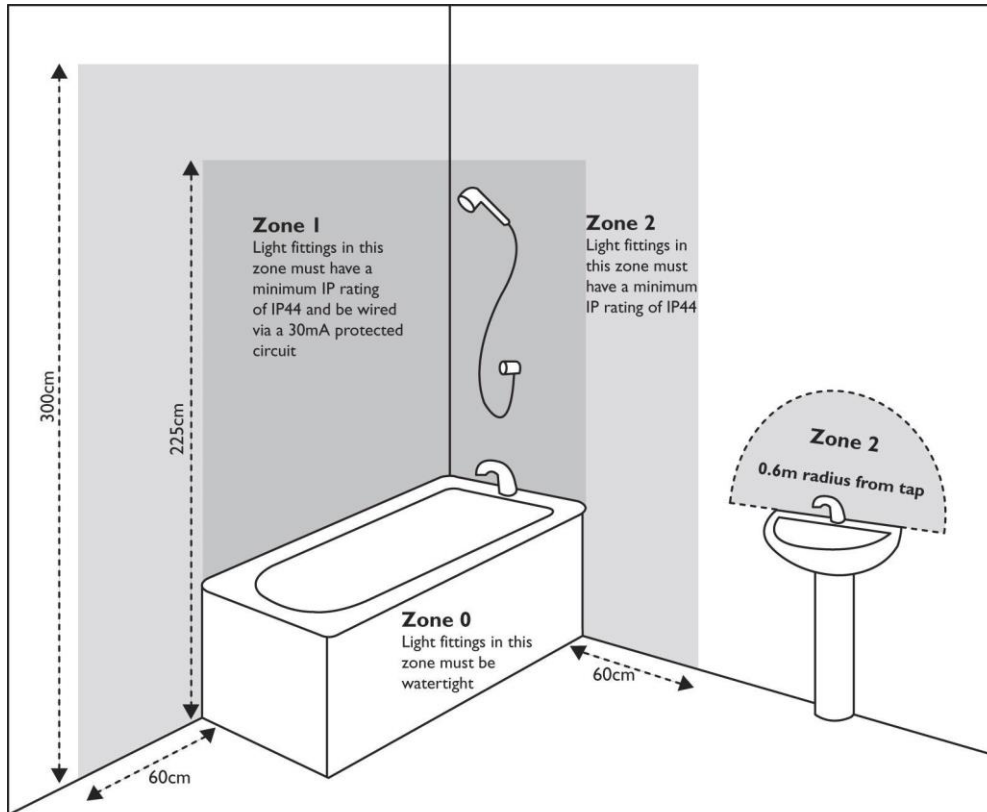
- \* If you are in any doubt consult a person competent to give advice on the installation of electrical equipment.
  - \* Before installation and servicing disconnect the electricity supply at the fuse board.
  - \* To avoid damage to concealed wiring during installation, establish the direction of the supply cable before drilling fixing holes.
  - \* This fitting should be fitted to a lighting supply (with earth) protected by a 5 amp fuse or equivalent circuit breaker.
  - \* Always be sure to use the correct type and wattage of bulbs as indicated on the fitting. Dispose of old bulbs carefully.
  - \* Install in accordance with the Building Regulations
- This fitting runs at high temperature and the following instructions should be carried out.**
- \* Do not mount on a flammable surface such as polystyrene or wood.
  - \* Ensure neither the supply wires nor the connector blocks rest against the backplate after installation. Use only heat resistant terminal connectors in the installation of this fitting. The enclosed terminal connectors are suitable when used as instructed below. Do not use terminal connectors made from low heat resistant plastics such as polythene.
  - \* This product is waterproof to IP44 if connected as below.
  - \* We strongly recommend that any fitting installed where it must be waterproof is installed by a qualified electrician.
  - \* Bulbs should not touch the backplate, you may adjust the angle of the bulb holders if necessary.

## INSTALLATION

1. Ensure the house electricity supply is off at the fuse board.
2. To ensure the connections to the light remain waterproof to IP44 the connections must be made with the rubber covered IP44 connector block supplied with the fitting. A single 3 core cable (switched live, neutral and earth) must be run from the connections inside the ceiling void to the fitting. This must then be connected to the fitting with this IP44 connector block. (In most houses there will be 3 or 4 sets of cables connected together inside the ceiling rose which will not fit inside the IP44 connector block.
3. If you are fitting this unit in place of an existing ceiling rose, you may find that there are more than 3 sets of cables connected within the rose. Before removing the existing rose, carefully note the position of each set of cables. If there are loop in cables that are not connected to the light these must be terminated in a separate terminal block away from the fitting.
4. Ensure the cable from the fitting passes through the grommet in the backplate ensuring it makes a good watertight seal around the cable.
5. Weight of the ceiling plate must be supported whilst you make the electrical connections.  
Slide one half of each side of the rubber connector cover over each end of the incoming and outgoing wires.  
Connect the supply live (normally red) to the live (brown) wire(s) of the fitting or marked "L".  
Connect the supply neutral (normally black) to the neutral (blue) wire(s) of the fitting or marked "N".  
Connect the supply earth (normally unsheathed or green/yellow) to the earth (green/yellow) wire(s) of the fitting or marked "".  
Ensure electrical connections are tight and no loose strands of wire are left out of the connector block.  
Slide the rubber boots over the connector block to provide a watertight seal.
6. Push the covered connector block inside the ceiling void.
7. Fix the backplate to the ceiling using suitable screws, ensuring that the screws are fixed firmly into the ceiling joist and not just the plaster. The heads of the screws must be sealed with the small rubber washers included in the screw pack to prevent water ingress into the fitting. **Take care not to damage wiring.**
8. Fit the bulb, type and wattage as indicated on the fitting.
9. Fit the glass by offering it up to the backplate and twisting clockwise until it is securely located.
10. Switch on the electricity supply at the fuse board.

## GENERAL INFORMATION

This fitting is designed for internal use only and must be fitted to a DRY SURFACE as any dampness in plaster or paint can damage the finish. **Do not use polish or abrasive cleaner - just a soft dry cloth.**



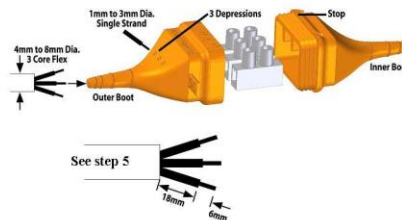
**This light is IP44 making it suitable for Zones 1 and 2**

**IP44 CONNECTOR BLOCK**

The rubber boots on the connector block will provide a watertight seal to IP44 if connected as below.

1. Separate the two halves of the boot by cutting the spur connecting them with scissors or a knife.
2. Cut the ends off the rubber boots with sharp scissors or a knife to reveal a suitable size hole depending on cable being used. The boot must be a tight fit around the insulation of the cable to ensure a watertight seal. It is therefore important not to cut the boots back too far. If you should cut back the boot too far the wire entry can be sealed with silicone mastic after step 8 below.
3. If single strands of cable are being used these can be pushed through the top side wall of the boot through the three depressions. (As shown).
4. Slide each boot backwards over each end of the cables.

5. Cut back the insulation on the wires as shown.
6. Make connections in the connector block ensuring they are tight and no loose strands are left out of the connector block.
7. Slide both boots back along the cable towards the connector block.
8. Push the two halves of the boots together so the arrows on the top of the boot are in line. Fully engage the ribs in order to create a good watertight seal. The halves are fully engaged when the front edge of the outer boot is hard up against the stop on the inner boot.
9. Take care to ensure the two halves of the boot are not pulled apart when the fitting is finally fitted.



To register your product for an extended five-year warranty, please complete the simple form at

[www.darlighting.co.uk/warranty](http://www.darlighting.co.uk/warranty)

You'll need to fill in the details of the product, the retailer you purchased it from, and also the installer and the installation. Please also upload a clear copy of the original purchase invoice or receipt to complete this registration.

**UK:** där Lighting Ltd, Wildmere Road, Banbury, Oxon, OX16 3JZ

**Ireland & EU:** Dar Lighting Ireland Limited, Suite 108, Q House, 76 Furze Road, Sandyford Industrial Estate, Dublin 18