

RL Architectural Luminaires

Maintenance and Installation Instructions

1. General Information

The RL Architectural luminaires are a range of high quality products from Waldmann Lighting Company for indoor and outdoor use.

Please read these instructions carefully before installing or servicing the product. Failure to comply with the instructions could result in personal injury and/or property damage.

Retain these operating instructions for future reference.

2. Description

The RL Architectural family consists of fluorescent luminaires in either 70mm (2 3/4") or 40mm (1 1/2") diameters. The luminaire tubes are either clear or frosted. Ballasts, necessary to correctly operate the lamps, are available either built-in to the luminaires, or separately for remote mounting.

The 70mm diameter models offer the opportunity to utilize all-round light emission, daisy-chaining, or a combination of these. Models are available with the ballast mounted either at the end of the lamp, or behind the lamp (reducing the overall luminaire length). The 70mm Pathlight models are supplied with the pedestal base to be bolted down.

The 40mm diameter models are not available with ballasts behind the lamp, all-round light emission, or pedestal base.

3. Safety Instructions

READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLING, SERVICING, OR OPERATE THE PRODUCT. OBSERVE ALL SAFETY INFORMATION. FAILURE TO COMPLY WITH THE INSTRUCTIONS COULD RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE. KEEP THESE INSTRUCTIONS IN A SAFE PLACE FOR FUTURE REFERENCE.

- All wiring should be done by licensed electricians in accordance with State and local codes, NEC (National Electrical Code) Standards, and Occupational Safety and Health Act (OSHA). Improper installation or use may result in serious injury and or property damage.
- The luminaires must be mounted using suitable mounting brackets provided by Waldmann Lighting Company.
- These lights **ARE water and dust proof to IP67**, however, they **MUST** be used in such a way that water, or other liquids, CANNOT penetrate the housing. For example, they are NOT designed for permanent submersion in water at any depth.
- Replace damaged and worn parts IMMEDIATELY.

- These fixtures are not intended to be used in potentially dangerous locations, such as flammable or explosive atmospheres.
- Replace the fluorescent lamps ONLY with ones of the same type and power (W, wattage) (see label).
- Always disconnect the fixture from the power supply before servicing or inspecting it for any reason. Failure to do so can result in fatal electrical shock.
- Dispose of old lamps conscientiously, and in accordance with your local, state and/or federal law.
- Do not make any change or modification to any part of the luminaire, except to occasionally replace the fluorescent lamp(s).

The manufacturer cannot be held liable for damage if the device is used for purposes other than the intended one or if safety instructions and warnings are ignored.

4. Operation

The RL Architectural luminaires are designed to be switched from a remote location. The lamps have a rated life in excess of 10,000 hours, and the ballasts are rated for 50,000 switch cycles. Whilst this is no guarantee of actual life, you should expect the luminaire to provide reliable service.

5. Installing your RL Architectural Luminaires.

The mounting brackets, you were choosing when specifying the fixture, should be mounted in a position to firmly hold the fixture in place. Be sure to place the brackets in a position where they do not block the light pattern of the luminaire. The hardware for attaching the mounting brackets to the mounting surface is not included.

If your fixture is supplied with a pathlight base, the base must be secured to the floor with the supplied hardware, or suitable alternative fixings. After connecting the luminaire to the power supply, drop it carefully inside the pathlight base, and then slide the O-ring and collar over the fixture,. Ensure the O-ring and collar line up with the top flange of the base. Tighten the five Allen headed screw evenly and firmly to make sure the luminaire is secured in place.

For wiring the fixture, please refer to the appropriate wiring diagram (Figs. 1-3), depending if your fixture is equipped with an integral ballast, requires a separate remote ballast, or is designed for Daisy chaining.

Use only UL listed 18 Gauge cord, type SJOW-A or SJTW-A, rated for minimum 90° C, five or three conductors, depending if your fixture requires a separate remote ballast, or is equipped with built-in ballast.

Caution: Fixtures without built-in ballast must use a remote ballast. Do not wire directly to power supply.

Figure 1: Luminaire with integral ballast

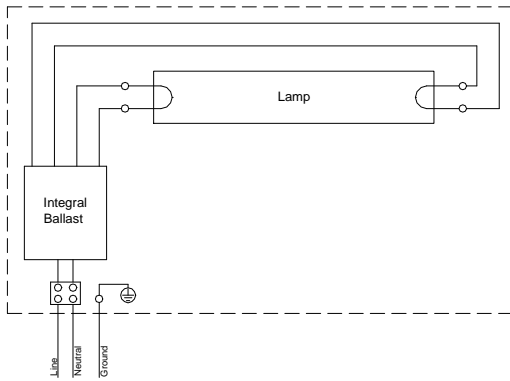
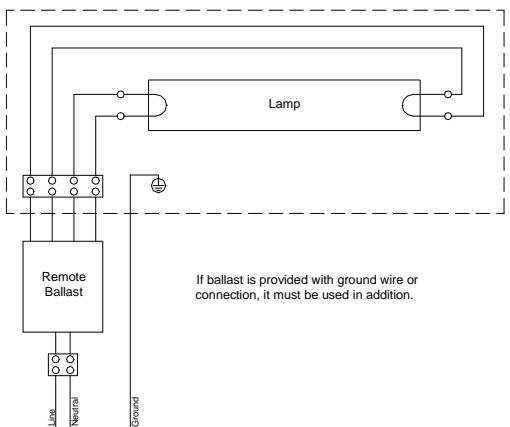
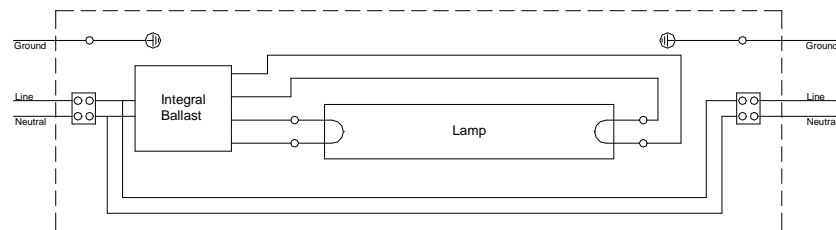


Figure 2: Luminaire requiring a separate remote ballast



Identify the leads coming to ballast

Figure 3: Luminaire designed for Daisy Chaining



6. Malfunction and Repair

The RL Architectural luminaires are designed to provide long periods of reliable service. However, the lamp(s) will need to be replaced occasionally. It is also possible, although rare, for the ballast to breakdown. If the fluorescent lamp(s) does not work, you should first check that the power is present in the area. Should this not solve the problem, replace the lamp, following the instructions in either paragraph 7, 8, or 9, depending on your luminaire. If the problem persists, then exchange the ballast(s). Your RL Architectural luminaire is covered by a 10-year limited warranty. For assistance in solving your problem, please Contact Waldmann Lighting Customer Service at 1 800 634 0007.

Failing or failed lamps should be replaced immediately, and not allowed to cycle (continuously attempt to strike). This places extreme stress on both the ballast and electrical components within the luminaire. If it is not possible to replace lamps immediately, we recommend the power supply be shut off on that circuit until the lamp is replaced.

Use only class p ballast UL CUL listed suitable for the lamp

7. Replacing the Fluorescent lamp – RL70 models

ATTENTION: Let the fluorescent lamp first cool down.

Make sure that the power supply is off.

As the lamp tray needs to slide out of the tube, it may be necessary for the luminaire to be demounted to some extent, depending on your application. NOTE: The lamp tray is only held in position by the two end caps. Once one end-cap is removed, the tray is free to slide. If the luminaire is tipped, it is highly likely the lamp tray will slide out of the tube. Precautions should be taken to avoid this and consequential damage.

Determine the end cap through which the power cable passes. Loosen the three screws (Fig. 4, F). The screws do not need to be removed, just loose enough for the O-ring to be released from the inside of the tube (Fig. 4, G).

Pull the end-cap away from the end of the tube slightly.

On the inside of the end-cap you will see a plug/socket connector. Pull the lamp-side half from the power supply half. The end cap is now free on the power cable.

Carefully slide the lamp tray (Fig. 4, H) out of the tube, exposing the full length of the lamp. Roll the lamp through 90 degrees (Fig 5). The lamp contact pins will become visible in each lampholder. Lift lamp clear of lampholders.

Install new lamp into both lampholders. Sometimes it is easier to slide the pins at one end into a lampholder, then the other end. Roll lamp through 90 degrees (either direction) to engage contact pins in lampholders.

Slide lamp tray back in to the tube. Note the two noses molded to the inside of the fixed end cap. These should align with the lamp tray.

Re-connect the plug/socket connector on the power supply end-cap. Rotate this end-cap so the two molded noses match with the lamp tray, and push fully into the end of the tube.

Holding the end-cap in position, tighten the three screws until the O-ring makes a crisp, black line all around the tube. This confirms the seal is complete. The appearance of the O-ring at the other end can be used as a guide.

Re-mount the luminaire in its original location.

Figure 4: End Cap removal

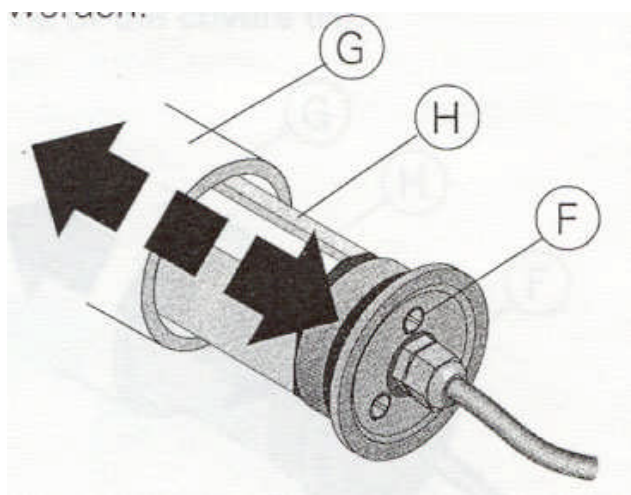
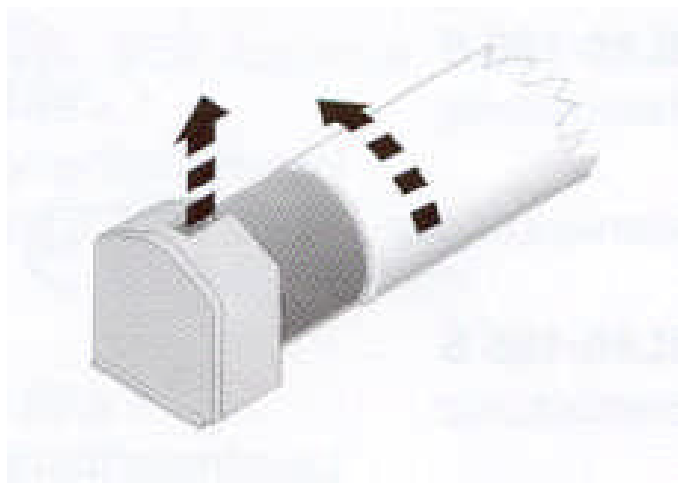


Figure 5: Lamp change



8. Replacing the Fluorescent lamp – RL40 models

ATTENTION: Let the fluorescent lamp first cool down.
Make sure that the power supply is off.

As the lamp tray needs to slide out of the tube, it may be necessary for the luminaire to be de-mounted to some extent, depending on your application. NOTE: The lamp tray is only held in position by the two end-caps. Once one end-cap is removed, the tray is free to slide. If the luminaire is tipped, it is highly likely the lamp tray will slide out of the tube. Precautions should be taken to avoid this and consequential damage.

Determine the end-cap through which the power cable passes. With two correctly sized wrenches, hold the smaller nut and loosen the larger hexagonal nut (Fig. 6). The nut does not need to be removed, just loose enough for the O-ring to be released from the inside of the tube.

Carefully pull the end-cap away from the end of the tube, pulling the lamp tray, until you are able to hold the lamp tray and withdraw it, exposing the full length of the lamp.

Roll the lamp through 90 degrees (Fig. 5). The lamp contact pins will become visible in each lampholders. Lift lamp clear of lampholders.

Install new lamp into both lampholders. Sometimes it is easier to slide the pins at one end into a lampholder, then the other end. Roll lamp through 90 degrees (either direction) to engage contact pins in lampholders.

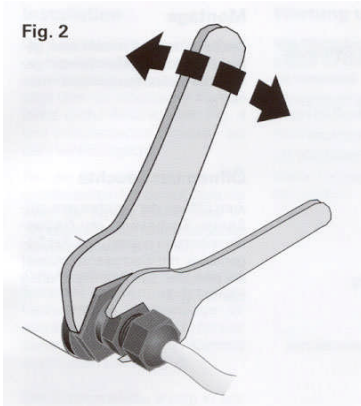
Slide lamp tray back in to the tube. Note the recess molded to the inside of the fixed end cap. This should align with the lamp tray.

Rotate the power supply end-cap so the molded recess matches with the lamp tray, and push fully into the end of the tube.

Holding the end-cap in position, tighten the larger nut against the smaller nut until the O-ring makes a crisp, black line all around the tube. This confirms the seal is complete. The appearance of the O-ring at the other end can be used as a guide.

Re-mount the luminaire in its original location.

Figure 6: End Cap removal, RL40



9. Replacing the Fluorescent lamp – RL70 Pathlight models

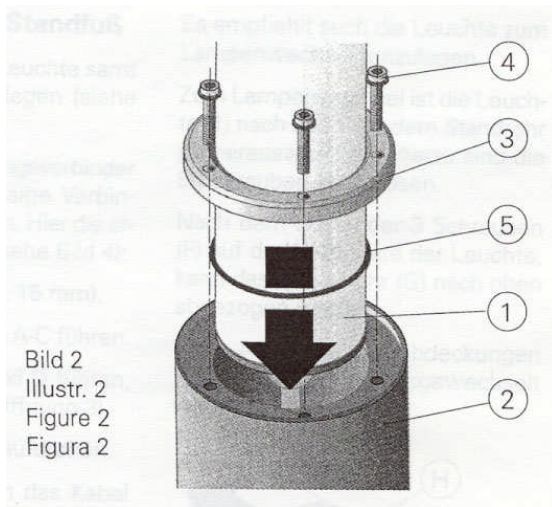
ATTENTION: Let the fluorescent lamp first cool down.

Make sure that the power supply is off.

Unscrew all five Allen headed screws (4) from the top of the Pathlight base (2).

Remove collar (3) and O-ring (5). The fixture (1) can now be lifted out of the base.

Figure 7: Pathlight collar removal



To change the lamp, refer to section 7., replacing the Fluorescent lamp – RL70 models.

10. Cleaning

The luminaires are waterproof and can withstand high-pressure wash down. However, the luminaires are designed for both interior and exterior applications. The best way to clean them is with a damp cloth and warm, soapy water. The outer tube is made from plastic and should not be cleaned with abrasive products.