

## FLUORESCENT LUMINAIRE MAINTENANCE

**READ AND FOLLOW ALL SAFETY INSTRUCTIONS.  
SAVE THESE INSTRUCTIONS AND IMPORTANT SAFEGUARDS.**

### Lamp Replacement

Fluorescent lamps typically have an average rated life of 20,000 hours. Under normal operating conditions, group relamping is recommended every 48 to 52 months. Some lamp failure will occur before this recommended interval and single lamp replacement should be considered where necessary. Lamps are removed by turning 1/4 turn. Use care when removing or installing lamps and do not work above others.

### Ballast Replacement

Ballasts are generally very reliable with a projected life of twenty years under normal operating conditions. Two adjacent lamps being out could indicate a ballast problem. First try replacing the lamps, if that fails to solve the problem, the appropriate ballast should be replaced.

Before attempting to verify and replace a ballast, the affected luminaire module must be taken off line. To isolate power from the unit, disconnect all circuits.

All Ledalite luminaires shipped after January 1st, 2008 are fitted with factory-installed disconnects at each ballast location. A ballast disconnect provides a localized means of disconnecting power for use when servicing of an individual ballast. Local disconnecting allows for indoor fluorescent luminaires that contain ballasts and use double ended lamps, to be serviced in place. Although the ballast disconnect provides an additional safeguard when servicing fluorescent lamp luminaires, it does not replace the need for turning off power to the circuit.

Consult the cross-section view on the luminaire specification sheet for ballast locations. Ballasts are normally found below the side reflector or center channel and are secured to either the extrusion housing or the ballast channel itself. Once the retaining screws are removed, the reflector or channel can be completely detached from the luminaire, exposing ballasts and wiring.

Once the ballast is replaced, ensure all fasteners are reattached and all applicable plugs are solidly reconnected – especially the grounding wire.

#### Note:

1. A ballast replacement should only be performed by a qualified electrical contractor.
2. Ballast warranties are offered by the ballast manufacturer and not by Ledalite. Contact Ledalite for the ballast breakdown by project if required, or for ballast manufacturer service information. Ballast information is found on the ballast label.

### Internal Components

Luminaires are certified by ETL to UL standards and CSA standards. When luminaires are operated as designed, all internal components will be relatively immune to scaling and corrosion. The conditions of certification exclude luminaires operated with missing, open or improperly installed lenses or covers.

### Special Tools

Standard tools such as slot and Phillips tip screwdrivers are required for maintenance. In some instances, screws have a combination head to accommodate a slot or square (No. 2 Robertson) screwdriver. Aircraft cable cutting: recommended cutters are Felco C7 cable cutter or equivalent.

### Cleaning Instructions

Regular cleaning of light fixtures is essential for optimal lighting performance.

### Exterior Painted Surfaces

The exterior surfaces of all components are finished with high quality powder paint—specially formulated to provide a durable scratch resistant coating. It is recommended that all surfaces be cleaned regularly to remove accumulated dust and dirt. Best results are obtained by wiping with a damp cotton cloth and a non-abrasive substance like a non-streaking household bathtub and tile cleaner. Do not spray solutions directly onto the fixture: residue can accumulate on optics which can be difficult to remove.

### Internal Reflector Systems

All luminaire reflectors should be dusted periodically to ensure optimal lighting performance—possibly during a systematic relamping operation. A hand held vacuum cleaner with a soft brush head is recommended for this operation. Any cleaning of reflectors should be carried out with care so as not to damage the materials used to optimize performance.

### Acrylic Lens Panels

To remove finger marks and typical dirt accumulation:

1. Run a soft cloth dampened with solution of warm water and a mild liquid detergent along the length of the fixture.
2. Rinse, using a different clean cloth dampened with water only.
3. To avoid streaking, run a dry cloth along the length of the fixture.

### MesoOptics Panels (if applicable)

The structured surface of MesoOptics material is highly sensitive to finger marks. Wear cotton gloves and handle the luminaire by the ends only.

In the event of finger marks on the MesoOptics surfaces, clean off immediately by following the above cleaning instructions, as the oils will degrade the material.

## LED LUMINAIRE MAINTENANCE

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### LED Light Engine & Driver Replacement

The LEDs and Drivers in Philips Ledalite products typically have a very long life, however some LED and/or Driver failures may occur and single LED Light Engine and/or Driver replacement should be considered where necessary. Use care and follow the instructions provided when removing or installing LED Light Engines & Driver and do not work above others.

Before attempting to replace an LED Light Engine & Driver, the affected luminaire module must be taken off line. To isolate power from the unit, disconnect all circuits.

All Philips Ledalite LED luminaires are fitted with factory-installed disconnects at each driver location. A driver disconnect provides a localized means of disconnecting power for use when servicing of an individual driver. Local disconnecting allows for indoor LED luminaires that contain drivers and LED Light Engines to be serviced in place. Although the driver disconnect provides an additional safeguard when servicing LED luminaires, it does not replace the need for turning off power to the circuit.

Drivers are normally found below the side reflector, below the center channel or behind the service door and are secured to either the extrusion housing, the driver channel or the housing itself. Once the retaining screws are removed, the reflector or channel cover can be completely detached from the luminaire, exposing drivers and wiring.

Once the driver is replaced, ensure all fasteners are reattached and all applicable plugs are solidly reconnected – especially the grounding wire.

#### Note:

1. An LED Light Engine & Driver replacement should only be performed by a qualified electrical contractor.
2. LED Light Engines & Driver warranties are offered and coordinated by Ledalite. Contact Ledalite for LED Light Engine & Driver service information. The LED Light Engine serial number is found on the LED Light Engine label.

### Internal Components

Luminaires are certified by ETL to UL standards and CSA standards. When luminaires are operated as designed, all internal components will be relatively immune to scaling and corrosion. The conditions of certification exclude luminaires operated with missing, open or improperly installed lenses or covers.

### Special Tools

Standard tools such as slot and Phillips tip screwdrivers are required for maintenance. In some instances, screws have a combination head to accommodate a slot or square (No. 2 Robertson) screwdriver. Aircraft cable cutting; recommended cutters are Felco C7 cable cutter or equivalent.

### Cleaning Instructions

Regular cleaning of the light fixture lens is essential for optimal lighting performance. The Lens should be removed to be cleaned. It is recommended not to clean the interior of the fixture in order to avoid damage to the LEDs.

### Exterior Painted Surfaces

The exterior surfaces of all components are finished with high quality powder paint—specially formulated to provide a durable scratch resistant coating. It is recommended that all surfaces be cleaned regularly to remove accumulated dust and dirt. Best results are obtained by wiping with a damp cotton cloth and a non-abrasive substance like a non-streaking household bathtub and tile cleaner. Do not spray solutions directly onto the fixture: residue can accumulate on optics which can be difficult to remove.

### Internal Reflector Systems

All luminaire reflectors should be dusted during any replacement of the LED Light Engine & Driver to ensure optimal lighting performance. A hand held vacuum cleaner with a soft brush head is recommended for this operation. Any cleaning of reflectors should be carried out with care so as not to damage the materials used to optimize performance. Cleaning of the reflectors should only take place when the LED Light Engine is removed so as not to damage the LEDs.

### Acrylic Lens Panels

To remove finger marks and typical dirt accumulation:

1. Remove the Light Guide panel prior to cleaning fixture.\*
2. Run a soft cloth dampened with solution of warm water and a mild liquid detergent along the length of the fixture.
2. Rinse, using a different clean cloth dampened with water only.
3. To avoid streaking, run a dry cloth along the length of the fixture.
4. Gently clean the Light Guide panel using a soft cloth with an antistatic cleaning solution.
5. Replace the Light Guide panel onto fixture.\*

**\* Note the orientation of the etched surface on the Light Guide when removing or replacing it.**

### MesoOptics Panels

The structured surface of MesoOptics material is highly sensitive to finger marks. Wear cotton gloves and handle the luminaire by the ends only.

In the event of finger marks on the MesoOptics surfaces, clean off immediately by following the above cleaning instructions, as the oils will degrade the material.