

Installation Instructions

TX-TE Optical Assemblies

READ AND FOLLOW ALL SAFETY INSTRUCTIONS!
SAVE THESE INSTRUCTIONS AND DELIVER TO OWNER AFTER INSTALLATION

IMPORTANT SAFETY INSTRUCTIONS

WARNING

To reduce the risk of death, injury or property damage from fire, electric shock, cuts, abrasions, falling parts, and other hazards:

- Service of the equipment must be performed by qualified service personnel.
- Installation and maintenance must be performed by a person familiar with the construction and operation of this product and any hazards involved. All applicable codes and ordinances must be followed.
- Read this document before installing, servicing, or maintaining this equipment or installing a lamp. These instructions do not cover all installation, service, and maintenance situations. If your situation is not covered, or if you do not understand these instructions or additional information is required, contact *Lithonia Lighting* or your local *Lithonia Lighting* Distributor.
- Read and follow all warnings and instructions provided by the lamp manufacturer.

WARNING

Before installing, servicing, or maintaining this equipment, follow these general precautions.

To reduce the risk of electrocution:

- Make sure the equipment is properly grounded.
- Always de-energize the circuit and/or equipment before connecting to, disconnecting from, or servicing the equipment.


To reduce the risk of fire:

- Keep material away that can burn from hot lamp.
- Make sure lamps are correctly installed.
- Use supply conductors with a minimum installation temperature rating as specified on equipment.

To reduce the risk of personal injury from cuts, abrasions, or falling parts:

- Wear gloves to prevent cuts or abrasions from sharp edges when removing from carton, handling and maintaining this equipment.
- Do not use abrasive materials, glass cleaners or other solvents on reflector or lens. These substances may damage equipment and cause parts to eventually break and fall.
- Do not install a damaged fixture.

CAUTION: Observe lamp manufacturer's recommendations and restrictions on lamp operation, including but not limited to ballast type, burning position, replacement and cycling. Use only lamps that comply with applicable ANSI standards.

NOTICE: If lamp is marked  it contains mercury. Follow disposal laws. See www.lamprecycle.org

Lithonia Lighting, a division of *Acuity Brands Lighting*, Inc., assumes no responsibility for claims arising out of improper or careless installation or handling of this product.

SAVE THESE INSTRUCTIONS

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Lithonia Lighting

Industrial HID
One Lithonia Way, Conyers, GA 30012
Phone: 800-315-4963 Fax: 770-981-8141
www.lithonia.com

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NOTE: To maintain optimum performance, periodically clean optical with mild, non-abrasive

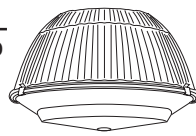
TROUBLESHOOTING

If this fixture fails to operate properly, check to make sure:

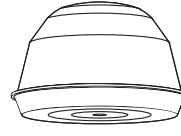
- The correct lamp is properly installed.
- The fixture is wired correctly.
- The lamp is not faulty.
- The fixture is grounded correctly.
- The line voltage at the fixture is correct.

CAUTION: The maximum ambient temperatures of the reflectors is:

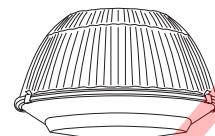
40°C - PA22C, PA25D, PA22GLE,
PA25ALE, PA25ALEF
55°C - A20, P20, A23, P23, A26, P26,
A30, P30, A121, A125, A162,
A165, A162OB, A165OB
65°C - E17, E22



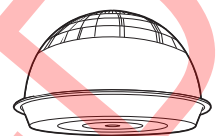
TX A20



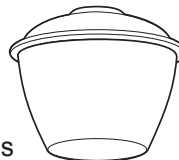
TX A23



TX A26



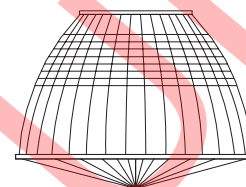
TX A30



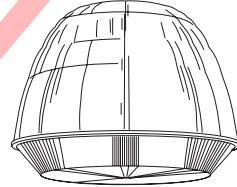
TX A165



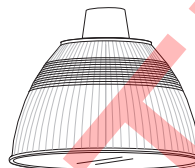
TX A125



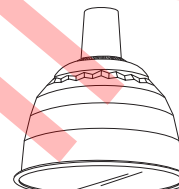
TX PA22C



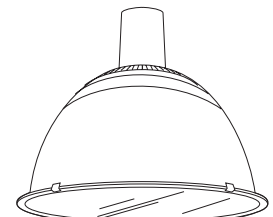
TX PA25D



TXPA22GLE



TE E17



TE E22

CAUTION Observe lamp manufacturer's recommendations/restrictions on lamp operation, particularly ballast type, burning position, etc.

NOTE: This instruction sheet explains optical installation. For electrical information refer to the industrial housing instruction sheet included with ballast housing.

NOTE: PA22C and PA25D opticals utilize phosphor coated Metal Halide lamps and etched High Pressure Sodium lamps.

CAUTION: A Auxiliary Quartz Option (QRS, QRSTD, & EC) TX housings with the following opticals PA25ALEF, PA22GLE, PA25ALE is equipped with QRS extension that needs to be installed **prior** to installing optical. A Auxiliary Quartz Option (QRS, QRSTD, & EC) TX housings with the following opticals A30F, A20, P20, A26, P26, A30, P30 A23, PA22C, PA25D, A125, A121, A125OB, A121OB, A165, A162, A165OB, A162OB need to have the equipped extension bracket removed/discarded **prior** to installing optical.

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1. Attach the reflector to the ballast housing. Be sure the keyhole slots have been fully rotated to engage screwheads in the narrow portion of the keyhole. Tighten all 4 screws securely (figure 1).
2. Prior to installing the lamp (not included) in the fixture, check to be sure the lamp is of the proper type and wattage. Screw the lamp securely into the socket, back the lamp out one to two turns, then screw the lamp back in, making sure it is secure. This properly seats the lamp in the socket.
3. Attach the lens to the reflector by first inserting the lens hinge into the receptacle found on the lip of the reflector (figure 2), then close the lens against the reflector and secure the lens latches to the reflector.
4. For additional security, a #10 screw (provided by others) can be inserted into the hinge receptacle (figure 3) to prevent the lens from getting knocked out of the hinge receptacle.



Figure 1

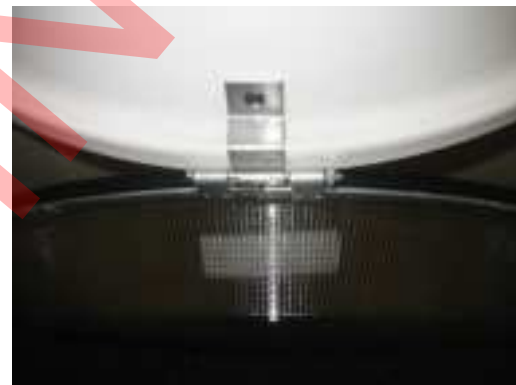


Figure 2



Figure 3

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LAMP INSTALLATION

Be certain power supply is not engaged when installing or replacing lamps. Prior to installing the lamp in the fixture, check fixture markings to be certain the lamp is the correct type and wattage. Screw the lamp securely into the socket, back it out one or two turns, then screw lamp back in, making sure it is secure. This procedure properly seats lamp in the socket. For QRS and EC options, be certain quartz lamp wattage does not exceed wattage rating of fixture. Push lamp into socket and depress, twist clockwise and release.

CAUTION: The use of lubricants on lamp bases or sockets can cause pre-mature lamp failure and voids fixture warranty.

CAUTION: Replace failed lamp promptly. Failure to do so can shorten the life of electrical components.

EMERGENCYCIRCUIT OPTION: Emergency circuit quartz socket leads are wired to an auxiliary power circuit. Be certain that auxiliary power supply is not engaged when installing or replacing quartz lamps.

REFLECTOR /LENS MAINTENANCE: Periodically clean to maintain optimum performance and to promote maximum optic life. For acrylic optics, use a **water dampened cloth only** because cleaner ingredients may diminish acrylic integrity. For aluminum optics, clean with a mild, non-abrasive cleaner.

IMPORTANT METAL HALIDE LAMP INFORMATION

Certain metal halide lamps require the use of a suitably enclosed luminaire and/or must be operated in accordance with specific guidelines that have been established by the lamp manufacturer. NFPA 70B, "Recommended Practice for Electrical Equipment Maintenance," Section 15-5.2, states, "Metal halide lamps are constructed of an outer bulb with an internal arc tube made of quartz. The arc tube operates under high pressure at very high temperatures – as high as approximately 1,100 degrees Celsius. The arc tube and outer bulb can unexpectedly rupture if the lamp is misapplied. In continuously operating systems (24 hours a day, 7 days a week), lamps should be turned off once per week for at least 15 minutes. Failure to do this increases the risk of rupture." Refer to lamp manufacturer for specific warnings and recommendations.

Reference Standards – "American National Standard for Electric Lamps – High Intensity Discharge Lamps, Methods of Designation," ANSI C78.380, Annex B, defines E, S and O type lamps.

Lamps classified as **E type** are to be used only in suitably rated enclosed luminaires.

Lamps classified as **S type** may be used in open luminaires in certain applications, when operated in the specified near vertical position. This category of lamps is limited only to certain lamps in the 350 to 1000 watt range.

Lamps classified as **O type**, with quartz arc tubes, comply with "American National Standard for Electric Lamps – High Intensity Discharge, Methods of Measuring Characteristics," ANSI Standard C78.389, for containment testing and may be used in open luminaires.

To determine the appropriate selection of a metal halide lamp, refer to all of the lamp manufacturer's warning and cautionary statements regarding the use of the lamp in your specific application.