

INSTRUCTION MANUAL

Model: PT-24
 Lamp: 1 F24T-5/HO Lamp
 Ballast: Electronic, high frequency, SS
 Reflector: 95% specular reflectance
 Voltage: 120, 230, 277 50-60 Hz
 Manufacturer: PL Systems, Inc.
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GENERAL INFORMATION

Thank you for your selection of one of our most effective video luminaires, the PT-24. This high performance luminaire should provide many years of low cost operation. The PT-24 is designed to maximize "throw" or "punch" by collimating the light while remaining "cool" and minimizing shadows. Unwanted spill is controlled with optional louvers or honeycomb. Throw is enhanced by the specular parabolic reflector. This advanced optical system directs the light to the aiming point much like a small linear spot light. The PT-24 is as close as fluorescent can come to a small key light. Lamp glare is minimized by the secondary reflector which is built in to the louver or by the wide honeycomb. (fig. 1)

The PT-24 is available in FUL (non dimming) only.

The PT-24 is designed with a mounting system which allows for positioning at any decided angle. The optional rod suspension kit will enable "drop" of the PT-24 to any desired length from the MX-222 housing canister. The spring loaded yoke (see fig. 2) enables pan and tilt. The PT-24 is made of Aluminum and powder coated in gloss white. Accessories are made of aircraft alloy aluminum. Standard luminaires are equipped with power cords. Each 120 volt cord is equipped with Edison 3 prong connectors. Other voltage models are shipped without plug unless specified. Fused power in and out receptacles are supplied for 120 volt models, if the MX-222 option is chosen. Up to two fixtures may be mounted in one MX-222 and may be powered with the receptacles provided so long as the load does not exceed 4 amps.

The PT-24, like most of the line, is mountable in horizontal or vertical orientation. Ordinary grip devices allow stand mounting as well.

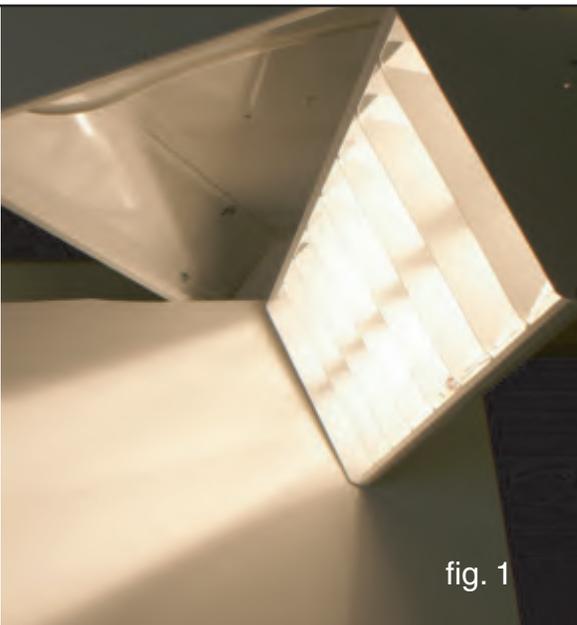


fig. 1



fig. 2

INSTALLATION:

Remove the luminaire from the shipping carton and inspect for any damage during shipping. If attenuators are ordered they may be installed in the aperture. If so, remove the accessory to install the lamps which are shipped separately. Check the base of each lamp to insure that you have the correct lamp color and CRI. See Table 1 for available lamps.

Table 1

LAMP COLOR	KELVIN	CRI	LUMENS	PLS PART#
TUNGSTEN	3,000	82	2,000	F24-T5/HO/830
TUNGSTEN	3,500	82	2,000	F24T-5/HO/835
COOL WHITE	4,100	82	2,000	F24-T5/HO/841

After determining that the lamps are correct, install the lamps by first disconnecting power and then gently inserting one pair of pins into the slot presented by the lamp holder then swing the lamp to insert the other end into the opposite slot. Rotate the lamp until a click or snap is felt to fully engage the pins.

When the lamp is installed, it is advisable to bench test each fixture. Plug the the power cord into the proper service. The lamp should start. Full intensity and correct color will be attained in about 5 to 10 minutes. Next, the hanging means should be mounted on the yoke (fig 2) with a 1/2" bolt supplied with the "C" clamp and or stem. If an MX222 mounting system is being used, refer to the installation instructions for the MX222. With the stems and "C"clamps attached, hang each assembly in the desired location on the 2" pipe grid or other qualified hanging system. Immediately add a safety cable as per fig. (3)

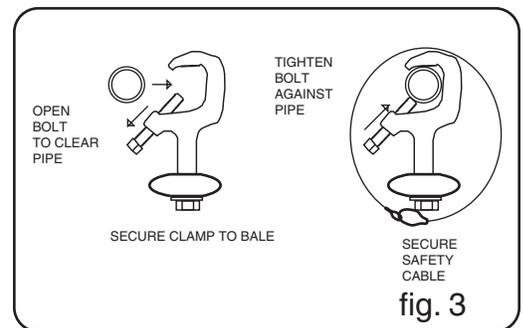


fig. 3

For assistance call (214)-393-5998, fax 393-5999

TROUBLE SHOOTING

If the luminaire will not strike, first determine if power is available to the fixture. Check for power at the outlets on the light and source. If the luminaire does not strike, the lamps may not be seated. Sometimes lamps are not seated fully into the socket. Never try to replace a lamp with the fixture power on. This light is rated to start at 50 degrees F or below. High temperatures affect lamp colors and cause shortened ballast life. If the light flashes but won't stay on, there may be a loose wire or bad electronic ballast. Consult Factory if the luminaire is non-responsive. (214)-393-5998

REFLECTIVE SURFACE CARE AND MAINTENANCE

The mirrored surface of this lighting product has the highest specular reflectance of any commercially available material. With proper care it should perform well for many years.

Fingerprints show up clearly and should be avoided. Dust adhering to the reflective surface shows, as well. In the event that soiling should occur, the reflector can be cleaned with little effort. It is best to start with a feather duster.

The clear coating of the reflective surface is chemically resistant and relatively tough but can be scratched by rubbing dusty grit causing marks. The effect is mostly cosmetic but should be avoided, especially for open fixtures. The best cleaners are those which leave no residue. Glass cleaners work well, as do very dilute solutions of hand dish wash detergents (1 drop/quart). Solvents stronger than iso-propyl alcohol should never be used.

Never use paper towels or tissues as these materials are made from wood and will cause scratches. Only soft cotton cloths should be used to wipe the surface. Use single strokes along the long axis of the reflector. Never use an orbital motion. The idea is that linear scratches don't show as much. Most scratches are caused by dust and dirt being rubbed into the surface. Before wetting the mirror surface, remove as much dust as possible using a feather duster or compressed air. Cloth diapers or soft, (well used) terry cloth works best. Never use spray cleaners like Formula 409, as these compounds leave residue. Spray on glass and mirror cleaners work best. If you have any questions call (214)-393-5998.

CAUTION: ALWAYS DISCONNECT POWER BEFORE CLEANING THE LUMINAIRE



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