

## INSTRUCTION MANUAL

Model: LSL

Lamps: 2 FT55DL/830

Ballast: Electronic, high frequency,

Reflector: 95% specular reflectance

Voltage: 120, 230, 277 50-60 Hz

Manufacturer: PL Systems, Inc.

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fig. 1

## GENERAL INFORMATION

Thank you for your selection of one of our most effective and versatile studio/location lighting kits available. These high performance luminaires should provide many years of low cost operation. The LSL-255 is designed to maximize "throw" or "punch" by collimating the light while remaining "cool" and minimizing shadows. The kit includes: 3 LSL-255-120 Luminaires, 3 studio spuds, 3- 2 1/2" grip heads' 3 safety pins, 6 FT55DL/830 lamps 3 power cords and 3 stands. The case is top entry which requires no bending over to pack or unpack. The case provides for 9 extra lamps storage so you can take daylight and tungsten colors. There are two optional fabric lens. The fabric soft lens diffuses the light while the fabric egg crate cuts off side glare. All of the equipment including the options can be easily stowed in the case. Finally the case is fitted with two 3" wheels for ease of movement and will provide a table top or work surface at any location. No tools are required. Overall dimensions are nom.12 x 24 x 36"

## LSL-255 LUMINAIRE

The luminaire is built around two 55 watt twin lamps. The entire kit uses only 360 Watts. Made of welded aluminum each luminaire weighs only 6 lb. the total kit weigh is about 70 lb. Reflectorized wings fold over the aperture protecting the lamp and reflector and act like intensifiers and/or barn doors. The LSL-255 is very effective using the 3- point ( 2-point front, 1 back ) lighting approach. Each LSL-255 is equipped with fused Edison (10 A) inlet and outlet power fittings allowing the three to be powered with a single extension cord. The switch controls the power to the one fixture. Power to the luminaire is indicated when the switch is lit.

## DIMMING

The LSL offers two types of optional dimming. They are analog (0-10 Volt signal) and line voltage control. These can be from a single point or local at each luminaire. Either system can be controlled by using DMX signal decoders.

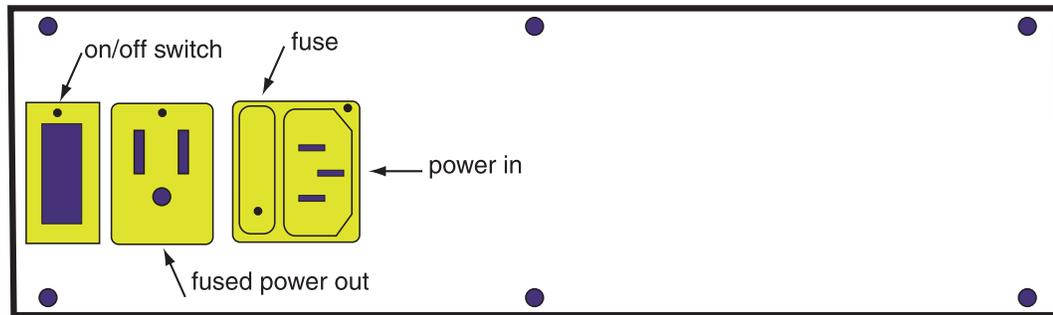


fig 2

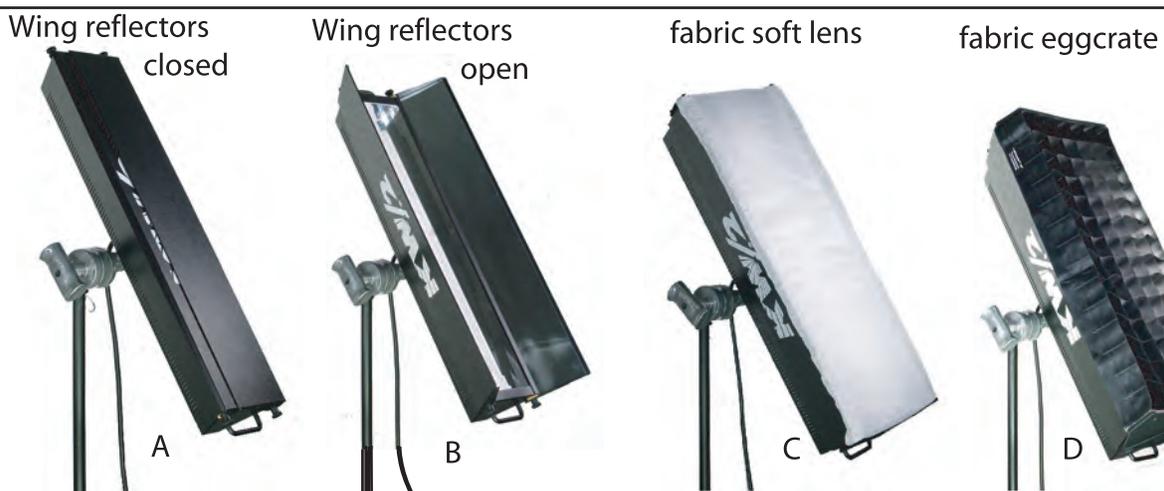


fig 3

The control panel is shown in figure 2. This panel contains the model number, serial number, voltage & Amps. If the model number contains "DIM" the unit is voltage dimmable. If "DAN" is in the number, the luminaire is analog (0-10 V) dimming. If neither, the luminaire is full power non dimming.

Figure 3 indicates some of the features of the LSL-255:

1. Reflectors are made with KW/2 technology and exhibit 95% specular reflectance. Spectral response over the visible range is level.
2. Two twin tube, 55 Watt, fluorescent lamps in each luminaire are powered by high frequency electronic ballasts.
3. Lamps are full spectrum (CRI 82-98) and available in 3000K, 3200K, 3500K, 4100K, 5000 and 5600K.
4. The 2 1/2" grip head connects the spud to the stand, providing almost total global aiming.
5. The fabric eggcrate and softlens mount to the open reflector wings with elastic means.
6. Figure 3A shows the wings closed to protect lamps and reflector.
7. Figure 3B shows the LSL in operational mode. Figures 3C & 3D show lens fitted
8. Metal Handles are fitted to each end.

**INSTALLATION:**

Remove the kit case from the shipping carton and Inspect for any damage during shipping. If options are ordered they may be packed in the case. Remove the LSL-255s and check for damage in shipping. To install the lamps, See figure 4. 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	4,800	FT55DL/830
TUNGSTEN	3,000	98	3,000	FT55DL/930
TUNGSTEN	3,200	85	4,000	FT55DL/832
DAYLIGHT	5,000	98	3,000	FT55DL/950
DAYLIGHT	5,600	85	4,000	FT55DL/856

After determining that the lamps are correct, install the lamps by gently inserting one side of the lamp into the lamp clip. Then slide the base of the lamp into the socket while aligning the four pins with the holes. A 'snap' is felt when fully plugged in. See fig 4. Caution: never remove or install lamps with active power to sockets as arcing can occur. Always turn off the switch or un-plug the power cable at the rear of the fixture housing. When changing lamps allow a few minutes for cooling. Caution should be taken whether installing or removing as glass shards could occur. Remove the three stands from the case and extend the bases. The grip head is mounted to the studio pin see fig. 5

When the lamps are installed, it is advisable to bench test each fixture. Plug the the power cord in one luminaire and turn the switch on the control panel fig 2. If there is power the switch is lit. The ballast has power. The lamps should start. Full intensity and correct color will be attained in about 5 to 10 minutes.

See Fig ( 2 ). If daisy chain power is desired up to six 255's may be connected together by use of the "power out" receptacle .

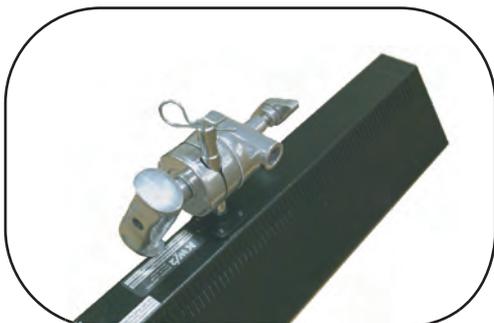
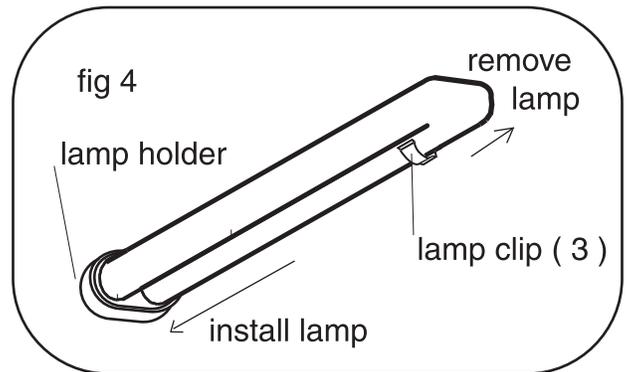


fig. 5

Never install any lamp except twin tube Dulux or Biax with a rating of 55 watts. Improper lamp usage will produce poor color and will shorten ballast life.

With gripheads tightened to spuds, immediately add the safety pin as per fig. ( 5 ) For heights over 5', steady base with sand bags.

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



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## **TROUBLE SHOOTING**

If the luminaire will not strike, first determine if power is available to the light. If the switch is not lit, check for power at the outlets of the light and source. If the luminaire still does not strike, the lamps may not be seated fully into the socket. Never try to replace a lamp with the fixture power on. This light is rated to start to at 50 degrees F or below. High temperatures affect lamp colors and shorten ballast life. If the light flashes but won't stay on, there may be a loose wire or bad electronic transformer. 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.

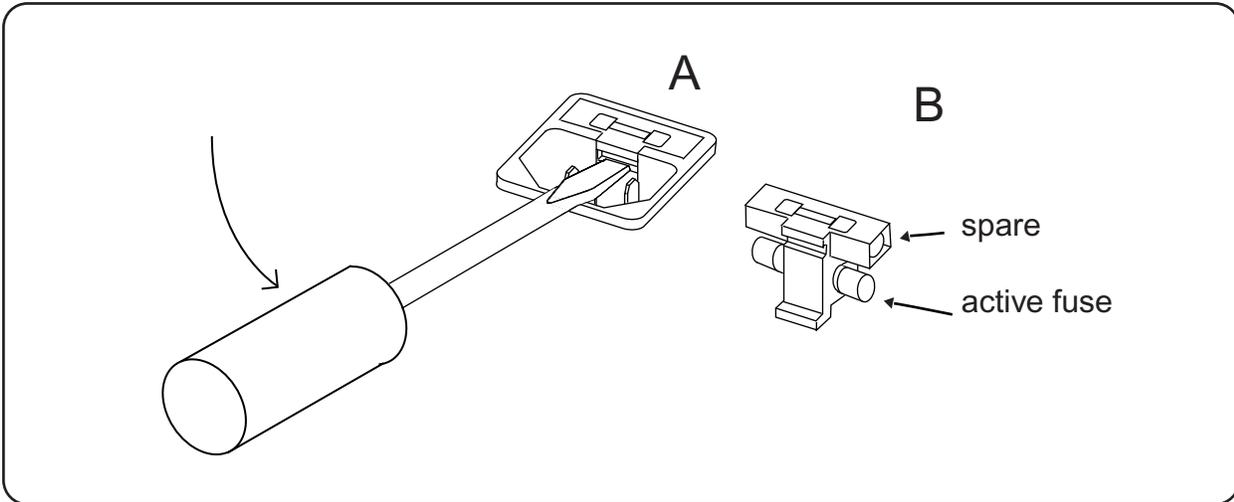
Never use paper towels or tissues as these materials are made from wood and will cause scratches. Only soft cotton cloths should be used to wipe the surface. Use single strokes along the long axis of the reflector. Never use an orbital motion. The idea is that linear scratches don't show as much. Most 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: DISCONNECT POWER BEFORE CLEANING THE LUMINAIRE**



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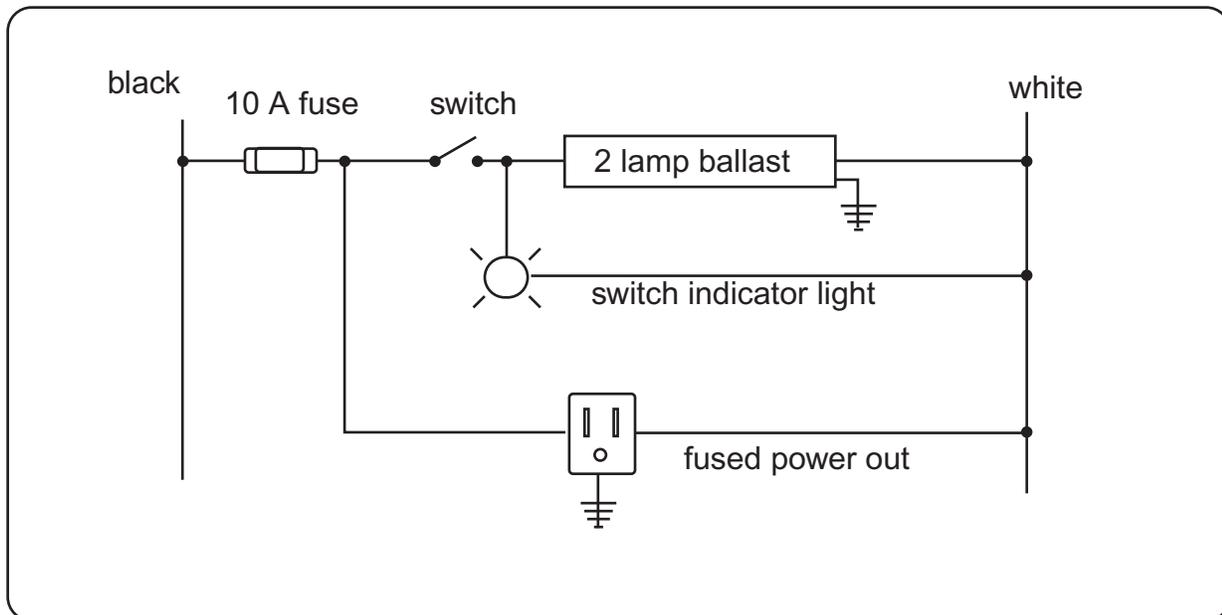
## **FUSE REPLACEMENT FOR FIXTURES WITH DETACHABLE POWER CORDS.**



### **DIRECTIONS**

Fixtures equipped with detachable power cords contain fuses which are rated at ten amps @ 250 Vac. To replace fuse remove power cord exposing the receptacle as shown in figure A. Make certain there are no other cords attached to the fixture. Using a small flat screw driver, pry up the fuse holder shown in figure B. Replace the fuse in the active slot and snap the fuse holder back into place. Use only fast acting type 217, 5 x 20 mm , 10 amp fuses.

### **LINE POWER SCHEMATIC**



### **CAUTION**

Fused power out receptacle to be used for fluorescent studio lights only. Maximum string wattage is 800. Fast acting fuse type 217, 5 x 20 mm , 10 Amps, 250 V.