

Strand Lighting Specification

I. SL SERIES VARIABLE FOCUS ELLIPSOIDAL SPOTLIGHT - 15° - 30° AND 23° - 50°

A. GENERAL

1. The SL Series shall be a variable focus zoom ellipsoidal reflector 575W spotlight. The high-performance zoom optics shall have beam angles from 23°- 50° and 15°- 30°.
2. The luminaire shall have a precision optical system designed around a Dichroic reflector in combination with a high efficiency lamp and shall feature a teflon-smooth lens adjustment. The Dichroic glass reflector shall provide both high light output and cool beam operation for extended pattern and color life. The luminaire shall also have a lamp centering/field adjustment mechanism and a bayonet action lamp changing system which simplifies lamp changes by maintaining field adjustments. Peak/Flat field adjustment shall be via screw drive mechanism to insure smooth, tool free field settings.
3. The luminaire shall be UL and cUL listed.

B. MECHANICAL

1. Adequate ventilation shall be provided in the form of openings in the body with proper baffling to prevent light leaks. Further reduction of the temperature shall be accomplished through the use of a heat sink around the lamp receptacle.
2. The lamp, reflector, shutters and template slot, shall be mounted within a die-cast aluminum housing.
3. The lenses for all models shall be mounted in interchangeable die cast lens tubes designed to provide for sharp or soft definition of the beam without allowing the passage of stray light rays or extraneous internal reflections from the lens tube.
4. This tube shall be fitted with heavy duty color frame holders capable of holding two standard metal color frames. A spring loaded safety catch shall be provided to secure all color frame accessories.
5. The Housing shall rotate 360 degrees to provide optimum luminaire orientation at all times. Luminaires offering limited range of motion shall not be accepted. The yoke and lens rotator collar shall have two mounting positions, the standard and a forward position to allow for better balance for long throw units. The yoke pivot point shall be off set to permit standard or short yoke hanging.
6. The shutters shall be stainless steel. The shutters shall operate in three independent planes. It shall be possible to align any two adjacent shutters parallel to one another. The three plane gate assembly shall make triangular patterns possible. Shutters shall be held in a spring loaded gate assembly.
7. Pattern and gobo size shall be B.
8. Exterior finish shall be black epoxy powder coat.
9. Overall length of the unit shall not exceed

23-50°	21.6" (550mm)
15-30°	23.3" (592mm)
10. Weight shall not exceed

23-50°	15.2lbs (6.9kgs)
15-30°	15.2lbs (6.9kgs)

Strand Lighting Specification

C. ELECTRICAL

1. Supply Voltage shall be 120 to 240V, 50/60Hz.
2. Max Lamp Watts shall be 575W at 120v and 600w at 230/240v
3. Lamp Type/Socket shall be TP 22 Medium 2-pin.
4. The luminaire shall be UL and cUL Listed.

D. ENVIRONMENTAL

1. Maximum operating ambient temperature shall be 115°F. Maximum surface temperature shall not exceed 440°F.
2. Recommended tilt angles of use shall be +90° to -90°.

E. OPTICAL TRAIN

1. The luminaire shall have a medium two pin socket to accommodate, an axially mounted tungsten-halogen lamp, a dichroic glass cool beam reflector, four push shutters and a template slot, all mounted within rotatable a die-cast aluminum housing.
2. The luminaires shall have the following lenses.

15° - 30°	Front 4.7" (120mm) Ø ground and polished crown glass aspheric lens.
	Rear 3.9" (100mm) Ø ground and polished crown glass bi-convex lens
23° - 50°	Front 4.7" (120mm) Ø ground and polished crown glass aspheric lens.
	Rear 3.9" (100mm) Ø ground and polished crown glass bi-convex lens
3. The rear housing assembly shall open for reflector cleaning.
4. Lamp centering shall be accomplished with the use of a screw driver.
5. Focusing shall be accomplished by moving the burner assembly using a simple screw drive mechanism for smooth operation.. These actions shall be separate, self-locking and non-interactive.
6. The burner assembly shall be removable from the unit without tools.
7. Removal and replacement of the burner assembly shall not change the lamp focus or alignment.

F. PERFORMANCE

With a 575 Watt, 5000°K, 120V, type GLC lamp the units shall produce the following Beam Candlepower (in candelas):

Fixture	Peak	Cosine
15/30 (15)	235,000	219,000
15/30 (30)	130,000	83,000
23/50 (23)	122,000	122,000
23/50 (50)	38,000	38,000

G. INCLUDED FURNISHINGS.

1. Mounting yoke.
2. Color frame .
3. C-clamp.
4. 3' (0.9m) power cable with bare leads or connector specified.
5. Each Luminaire shall be UL and cUL listed and approved. Units which fail to meet this requirement shall not be acceptable.

Strand Lighting Specification

H. ACCESSORIES.

1. Lamp.
2. Additional Color frame .
3. High Hat.
4. Rotatable Pattern Holder.
5. Drop-in Iris (24 leaf).
6. Donuts.
7. Safety cable, 18" (457mm).

I. PROVIDE THE FOLLOWING:

Qty.	Cat. No.	Description
#	11411	15° - 30° SL series spotlight with, bare leads
#	11416	15° - 30° SL series spotlight with, GR (15A) Fitted Connector
#	11417	15° - 30° SL series spotlight with, GP (20A) Fitted Connector
#	11418	15° - 30° SL series spotlight with, GTL (20A) Fitted Connector
#	11421	23° - 50° SL series spotlight with, bare leads
#	11426	23° - 50° SL series spotlight with, GR (15A) Fitted Connector
#	11427	23° - 50° SL series spotlight with, GP (20A) Fitted Connector
#	11428	23° - 50° SL series spotlight with, GTL (20A) Fitted Connector
#	GLC	575W 115V Lamp 400 hrs
#	GLA/LL	575W 115V Lamp 1500 hrs
#	GKV	600W 230/240V Lamp 400hrs
#	GLB	600W 230/240V Lamp 1500hrs
#	18114	Color frame, 6 1/4" x 6 1/4" (Leko 19-50, 18° - 30°, 25° - 50°)
#	18115	High hat (Leko 19-50)
#	18143	Donuts (Leko 19-50)
#	18049	Drop-in Iris (Leko 5-50)
#	18045	Pattern holder (Leko 5-50)
#	82003	Safety cable, 18" (457mm)