

Strand Lighting Specification

I. SL SERIES ELLIPSOIDAL SPOTLIGHT - 5° TO 50°

A. GENERAL

1. The SL Series shall be an ellipsoidal reflector 575W spotlight, available in 5°, 10°, 19°, 26°, 36° and 50° beam angles.
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 the 19 – 50 shall be mounted in interchangeable die cast lens tubes and the 5 and 10 mounted in interchangeable metal spun 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. The lens tubes between 5 to 50 degree luminaires shall be interchangeable.
5. This tube shall be fitted with heavy duty color frame holders capable of holding two standard metal color frames.
6. The Housing shall rotate 360 degrees to provide optimum luminaire orientation at all times. Luminaires offering limited range of motion shall not be accepted.
7. 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.
8. Pattern and gobo size shall be B.
9. Exterior finish shall be black epoxy powder coat.
10. Overall length of the unit shall not exceed

5°	20" (507mm) plus 3" (70mm) for lens focus.
10°	26" (665mm) plus 3" (70mm) for lens focus.
19 - 50°	41" (1035mm) plus 3" (70mm) for lens focus.
11. Weight shall not exceed

5°	17.6lbs (8.0kgs)
10°	15lbs (6.8kgs)
19 - 50°	15lbs (6.8kgs)

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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.
 - 5° 13.8" (350mm) Ø acrylic micro fresnel lens.
 - 10° 9.8" (250mm) Ø acrylic micro fresnel lens.
 - 19° & 26° 4.7" (120mm) Ø ground and polished borosilicate glass aspheric lens.
 - 26° & 50° 3.9" (100mm) Ø ground and polished borosilicate glass aspheric 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, 3200°K, 120V, type GLC lamp the units shall produce the following Beam Candlepower (in candelas):

	Peak	Cosine
5°	2,000,000	2,000,000
10°	715,000	660,000
19°	230,000	200,000
26°	172,000	117,000
36°	91,000	66,000
50°	50,000	34,000

G. INCLUDED FURNISHINGS.

1. Mounting yoke.
2. Color frame .
3. C-clamp.
4. 3' (0.9m) power cable with bare leads or connector specified.

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5. Each Luminaire shall be UL and cUL listed and approved. Units which fail to meet this requirement shall not be acceptable.

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
#	11301	5° SL series spotlight with, bare leads
#	11306	5° SL series spotlight with, GR (15A) Fitted Connector
#	11307	5° SL series spotlight with, GP (20A) Fitted Connector
#	11308	5° SL series spotlight with, GTL (20A) Fitted Connector
#	11311	10° SL series spotlight with, bare leads
#	11316	10° SL series spotlight with, GR (15A) Fitted Connector
#	11317	10° SL series spotlight with, GP (20A) Fitted Connector
#	11318	10° SL series spotlight with, GTL (20A) Fitted Connector
#	11321	19° SL series spotlight with, bare leads
#	11326	19° SL series spotlight with, GR (15A) Fitted Connector
#	11327	19° SL series spotlight with, GP (20A) Fitted Connector
#	11328	19° SL series spotlight with, GTL (20A) Fitted Connector
#	11331	26° SL series spotlight with, bare leads
#	11336	26° SL series spotlight with, GR (15A) Fitted Connector
#	11337	26° SL series spotlight with, GP (20A) Fitted Connector
#	11338	26° SL series spotlight with, GTL (20A) Fitted Connector
#	11341	36° SL series spotlight with, bare leads
#	11346	36° SL series spotlight with, GR (15A) Fitted Connector
#	11347	36° SL series spotlight with, GP (20A) Fitted Connector
#	11348	35° SL series spotlight with, GTL (20A) Fitted Connector
#	11351	50° SL series spotlight with, bare leads
#	11356	50° SL series spotlight with, GR (15A) Fitted Connector
#	11357	50° SL series spotlight with, GP (20A) Fitted Connector
#	11358	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
#	18401	5° Lens Tube (as spare or exchange)
#	18402	10° Lens Tube (as spare or exchange)
#	18403	19° Lens Tube (as spare or exchange)
#	18404	26° Lens Tube (as spare or exchange)
#	18405	36° Lens Tube (as spare or exchange)
#	18406	50° Lens Tube (as spare or exchange)
#	18136	Color frame, 16" x 16" (Leko 5)
#	18137	Color frame, 12" x 12" (Leko 10)
#	18114	Color frame, 6 1/4" x 6 1/4" (Leko 19-50)

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#	18138	High hat (Leko 5)
#	18139	High hat (Leko 10)
#	18115	High hat (Leko 19-50)
#	18141	Donuts (Leko 5)
#	18142	Donuts (Leko 10)
#	18143	Donuts (Leko 19-50)
#	18049	Drop-in Iris (Leko 5-50)
#	18045	Pattern holder (Leko 5-50)
#	82003	Safety cable, 18" (457mm)