

Strand Lighting Specification

I. IRIS CYCLORAMA LUMINAIRES

A. GENERAL

1. The Iris cyclorama luminaires shall be of modular construction to allow for four basic versions: one, two, three and four light units. Each compartment shall accommodate 1000W or 1500W double-ended tungsten-halogen lamps.

B. MECHANICAL

1. The sockets shall be mounted within a multi-curve, anodized, high purity aluminum reflector designed for maximum efficiency and smoothness of field.
2. The housings shall be of sheet steel with a specially designed serrated diffuser edge at the base of each compartment.
3. Both the reflector and the housing shall be vented to allow the use of high-temperature plastic color media. A 3mm wire mesh safety screen shall be provided with all luminaires of this type.
4. Exterior finish shall be black baked enamel
5. The weight shall be:
 - a. Iris 1: 15lbs (8.5kg)
 - b. Iris 2: 27lbs (15.5kg)
 - c. Iris 3: 39lbs (22.5kg)
 - d. Iris 4: 53lbs (28.5kg)
6. The luminaire shall have the following dimensions:
 - a. Iris 1: 9.75" (247mm) D x 20.4" (517mm) W x 15.8" (402mm) H
 - b. Iris 2: 9.75" (247mm) D x 36.29" (922mm) W x 15.8" (402mm) H
 - c. Iris 3: 9.75" (247mm) D x 52.7" (1327mm) W x 15.8" (402mm) H
 - d. Iris 4: 9.75" (247mm) D x 36.29" (922mm) W x 28.8" (757mm) H
7. The color frame size shall be : 16" x 12 1/4" (405 x 310mm).

C. ELECTRICAL

1. The supply voltage shall be 120V, 60Hz. 220V versions shall be available.
2. The maximum lamp wattage shall be 1500W.
3. A 3 feet 3 x 14 AWG power cable shall be supplied.
4. The unit shall utilize double ended tungsten halogen lamps (R7 base).
5. The entire unit shall be UL listed and CSA approved.

D. OPTICAL SYSTEM

1. The sockets shall be mounted within a multi-curve, anodized, high purity aluminum reflector designed for maximum efficiency and smoothness of field.
2. Lamp access shall be through the front of the open face of the unit, after the color frame and wire guard are removed.

E. ENVIRONMENTAL

1. The maximum ambient operating temperature shall be 115°F.
2. The angles of use shall be from vertical to -45°. The cyclorama lights shall be designed to evenly illuminate cycloramas up to 23' high with maximum illumination at performer head height of 6'. The units shall rely on the overlap of light from adjacent units which should be installed on 8' centers and tilted down 20° from vertical.

F. PERFORMANCE

1. The lux levels shall be, for an FFT 1000W 120V lamp:

Cyclorama Height (ft)	18	15	12
Distance from Cyc (ft)	8	6.5	5.0

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Spacing on centers (ft)	8	6.5	5.0
Lux level at 6ft high	100	120	140

Alternative lamp FDB 1500W, 120V, multiply FFT performance by 1.49.

2. The unit shall produce a smooth uniform field with less than +5% deviation from top to bottom on a 24' (7.3m) cyclorama using units on 8' (2.4m) centers.
3. Horizontal deviation shall not exceed +3%.

G. INCLUDED FURNISHINGS

1. One color frame for each compartment
2. One wire guard for each compartment
3. Iron C-clamp to grip up to 2" (51mm) pipe
4. Steel yoke
5. 39'" (1m) leads in fiberglass sleeving, or with connectors as specified

H. ACCESSORIES

1. Lamp
2. Additional Color frames
3. Additional Wire guard
4. Safety cable, 18" (457mm)

I. PROVIDE THE FOLLOWING:

Qty.	Cat. No.	Description
#	26071	Iris 1 Cyclight, bare leads
#	26076	Iris 1 Cyclight, (1) GR (15A) Fitted Connector
#	26077	Iris 1 Cyclight, (1) GP (20A) Fitted Connector
#	26078	Iris 1 Cyclight, (1) GTL (20A) Fitted Connector
#	28081	Iris 1 Pole Operated Cyclight (tilt only), bare leads
#	28086	Iris 1 Pole Operated Cyclight (tilt only), (1) GR (15A) Fitted Connector
#	28087	Iris 1 Pole Operated Cyclight (tilt only), (1) GP (20A) Fitted Connector
#	28088	Iris 1 Pole Operated Cyclight (tilt only), (1) GTL (20A) Fitted Connector
#	26171	Iris 2 Cyclight, bare leads
#	26176	Iris 2 Cyclight, (2) GR (15A) Fitted Connectors
#	26177	Iris 2 Cyclight, (2) GP (20A) Fitted Connectors
#	26178	Iris 2 Cyclight, (2) GTL (20A) Fitted Connectors
#	26111	Iris 2 Pole Operated Cyclight (tilt only), bare leads
#	26116	Iris 2 Pole Operated Cyclight (tilt only), (2) GR (15A) Fitted Connectors
#	26117	Iris 2 Pole Operated Cyclight (tilt only), (2) GP (20A) Fitted Connectors
#	26118	Iris 2 Pole Operated Cyclight (tilt only), (2) GTL (20A) Fitted Connectors
#	26101	Iris 2 Split Yoke Pole Operated Cyclight (tilt only), bare leads
#	26106	Iris 2 Split Yoke Pole Operated Cyclight (tilt only), (2) GR (15A) Fitted Connectors
#	26107	Iris 2 Split Yoke Pole Operated Cyclight (tilt only), (2) GP (20A) Fitted Connectors
#	26108	Iris 2 Split Yoke Pole Operated Cyclight (tilt only), (2) GTL (20A) Fitted Connectors
#	26181	Iris 3 Cyclight, bare leads
#	26186	Iris 3 Cyclight, (3) GR (15A) Fitted Connector
#	26187	Iris 3 Cyclight, (3) GP (20A) Fitted Connector
#	26188	Iris 3 Cyclight, (3) GTL (20A) Fitted Connector
#	26131	Iris 3 Pole Operated Cyclight (tilt only), bare leads
#	26136	Iris 3 Pole Operated Cyclight (tilt only), (3) GR (15A) Fitted Connectors

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#	26137	Iris 3 Pole Operated Cyclight (tilt only), (3) GP (20A) Fitted Connectors
#	26138	Iris 3 Pole Operated Cyclight (tilt only), (3) GTL (20A) Fitted Connectors
#	26191	Iris 4 Cyclight, bare leads
#	26196	Iris 4 Cyclight, (4) GR (15A) Fitted Connectors
#	26197	Iris 4 Cyclight, (4) GP (20A) Fitted Connectors
#	26198	Iris 4 Cyclight, (4) GTL (20A) Fitted Connectors
#	26151	Iris 4 Pole Operated Cyclight (tilt only), bare leads
#	26156	Iris 4 Pole Operated Cyclight (tilt only), (4) GR (15A) Fitted Connectors
#	26157	Iris 4 Pole Operated Cyclight (tilt only), (4) GP (20A) Fitted Connectors
#	26158	Iris 4 Pole Operated Cyclight (tilt only), (4) GTL (20A) Fitted Connectors
#	26141	Iris 4 Split Yoke Pole Operated Cyclight (tilt only), bare leads
#	26146	Iris 4 Split Yoke Pole Operated Cyclight (tilt only), (4) GR (15A) Fitted Connectors
#	26147	Iris 4 Split Yoke Pole Operated Cyclight (tilt only), (4) GP (20A) Fitted Connectors
#	26148	Iris 4 Split Yoke Pole Operated Cyclight (tilt only), (4) GTL (20A) Fitted Connectors
#	FFT	1000W 120V lamp, one per compartment
#	FDB	1500W 120V lamp, one per compartment
#	FGT	1500W 120V lamp (frosted), one per compartment
#	28012	Wire guard (3mm), one per compartment
#	28011	Color frame, one per compartment
#	82003	Safety cable, 18" (457mm)
#	82019	Stud C-clamp
#	95556	Stud C-clamp (long bolt)