

2204
STRAND
CENTURY

LEKOLITE® SPOTLIGHT

(4½" x 3¼") if Lenses Touch

4½" x 6½" (114mm x 165mm) lenses, 500W, 750W, 1000W

Axial lamp, die-cast body,
high efficiency.

**An essential spotlight for theatre, television and
precision architectural accent lighting.**

- New die-cast housing accepts a wide range of tungsten halogen lamps, axially mounted for higher output.
- New die-cast socket assembly allows total lamp position adjustment without tools.
- New double flatted specular Alzak reflector.
- New heavy gauge stainless steel shutter blades in separate planes.



Cat. No.	Description
2204	4 shutters and template slot.
	Accessories
1108	Color frame
1335	High hat
1342	Pattern holder
1352	Set of 6 patterns
1354	Iris kit

Strand Century Lekolite® Spotlight

4½" x 6½" (114mm x 165mm) lenses,
500W, 750W, 1000W

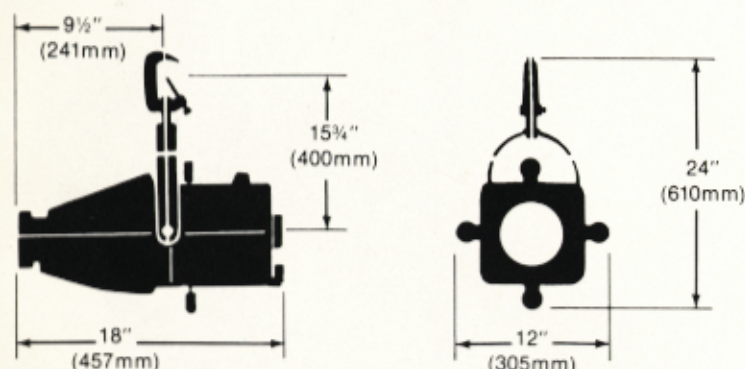
Specifications: 2204

The unit shall be a 500W, 750W, 1000W ellipsoidal reflector spotlight with a medium two pin socket to accommodate an axially mounted tungsten-halogen lamp, a double flatted ellipsoidal, specular Alzak processed aluminum reflector, four push shutters and a template slot, all mounted within a die-cast aluminum housing. The two 4½" x 6½" (114mm x 165mm) ground and polished Pyrex plano-convex lenses shall be mounted in a die-cast aluminum lens tube, 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. This tube shall be fitted with heavy duty color frame holders. A spring loaded latch shall permit hinged upward opening of the rear portion of the unit for reflector cleaning, without allowing accidental opening. The shutters and gate assembly shall be .049" type 302 stainless steel, and the shutters shall operate in four independent planes. An iris kit shall be available for field installation by the user. Adequate ventilation shall be provided in the form of openings in the body completely surrounding the reflector and lens tube, with proper baffling to prevent light leaks. Further reduction of the temperature shall be accomplished through the use of a die-cast, finned heat sink around the lamp receptacle.

Lamp focusing shall be accomplished without the use of tools, and shall be continuously variable. Focusing shall be accomplished by moving the socket assembly axially to vary the light distribution across the field, and in a transverse plane to center the lamp. These actions shall be separate and non-interactive. The socket assembly shall be removable from the unit without tools, but shall have a stop to prevent accidental removal.

Each unit shall be supplied with a malleable iron clamp to grip up to 2" pipe, a die-cast aluminum yoke with locking clutch handle and three 3' (0.9 m) SF2 leads in fiberglass sleeving. Exterior finish shall be baked black enamel. Overall length of the unit shall not exceed 18" (457 mm). Weight shall not exceed 15½ lbs. (7 kg.).

The unit shall have a 42° 1/2 peak angle and a 65° cut-off angle, and shall produce 65 footcandles maximum at 20 feet (750 lux at 6 m) using an FEL lamp set for cosine distribution for average conditions. For special applications, the lamp shall be readily adjustable to produce peak distribution with a 21° 1/2 peak angle and a 44° 1/10 peak angle, and 205 footcandles maximum at 20 feet (2285 lux at 6 m).



**STRAND
CENTURY**

A COMPANY WITHIN THE RANK ORGANISATION

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PERFORMANCE DATA

Lamp: FEL, 1000W, 300 Hrs., 3200°K, 27,500 Lumens

PEAK DISTRIBUTION: 1/2 Peak Angle—21°
1/10 Peak Angle—44°

Distance (Ft.)	20'	25'	30'	35'	40'
Footcandles (Max.)	206	132	92	67	52
Diameter (Ft.)	16.2'	20.2'	24.3'	28.3'	32.4'
Distance (m)	6m	7.5m	9m	10.5m	12m
Lux (Max.)	2285	1465	1015	745	570
Diameter (m)	4.8m	6m	7.2m	8.4m	9.6m

COSINE DISTRIBUTION: 1/2 Peak Angle—42°
Cut-Off Angle—65°

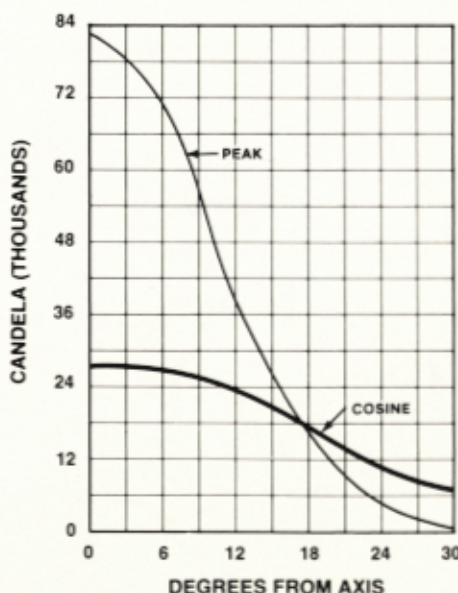
Distance (Ft.)	15'	17.5'	20'	22.5'	25'
Footcandles (Max.)	120	88	65	53	43
Diameter (Ft.)	19'	22.2'	25.4'	28.6'	31.8'
Distance (m)	4.5m	5.3m	6m	6.8m	7.5m
Lux (Max.)	1340	965	750	585	480
Diameter (m)	5.7m	6.7m	7.6m	8.6m	9.5m

TO FIND PERFORMANCE AT ANY DISTANCE:

Peak Distribution	Cosine Distribution
FOOTCANDLES = $\frac{82,400}{\text{DISTANCE}^2 \text{ (FT.)}}$	FOOTCANDLES = $\frac{27,100}{\text{DISTANCE}^2 \text{ (FT.)}}$
LUX = $\frac{82,400}{\text{DISTANCE}^2 \text{ (m)}}$	LUX = $\frac{27,100}{\text{DISTANCE}^2 \text{ (m)}}$
DIAMETER = DISTANCE x .81	DIAMETER = DISTANCE x 1.27

OTHER LAMPS: MULTIPLY INTENSITY BY M.F. BELOW:

LAMP	WATTS	MF	LIFE	COLOR TEMP.	LUMENS
EHC/EHB	500W	.47	200 HRS.	3200 K°	13,000
EHD	500W	.36	2000 HRS.	3000 K°	10,000
EHF	750W	.73	300 HRS.	3200 K°	20,000
EHG	750W	.54	2000 HRS.	3000 K°	15,000



NOTES:

Peak Distribution—maximum center intensity

Cosine Distribution—1/2 of center intensity is reached at 2/3 of total spread.

Suitable for average conditions, especially when several units are overlapped for smooth lighting of an area.

1/2 Peak Angle—Beam spread where intensity drops to 50% of maximum

1/10 Peak Angle—Beam spread where intensity drops to 10% of maximum

Cut-Off Angle—Beam spread to edge of lighted area