**LEVITON**®

LEO LED Fresnel, 100W

DESCRIPTION

The Leviton LEO LED Fresnel is a compact, light weight fixture suitable for small TV studios, stages and multi-purpose venues with limited ceiling space. The 100W, white light output Fresnel spotlight provides high lumen output and close-to-skin tone color rendering. The fixture is controlled via DMX signals or manually through a local control panel using press buttons, a tuning knob and a 4-digit display

Included with the LEO LED Fresnel is a pair of IN and OUT powerCON receptacles.

APPLICATIONS

- Theaters
- TV studios
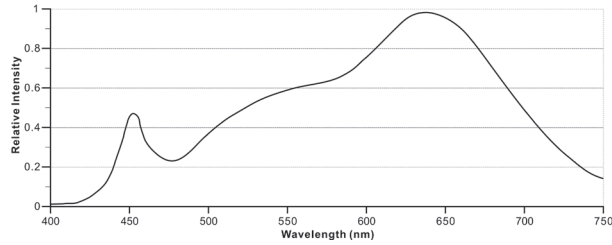- Concerts
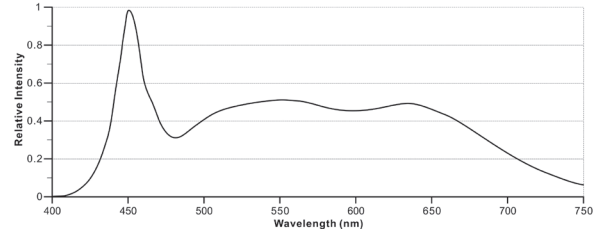- Houses of worship
- Multi-purpose venues
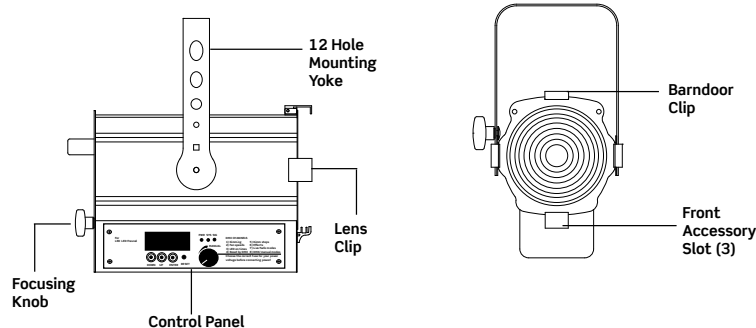
FEATURES

- Circular light beam similar to Tungsten halogen fixtures
- Available in warm white and daylight color temperatures
- Guaranteed color consistency between units and over time
- High-performance LED fixture
- Real-time temperature monitoring to extend LED life; LNE/safe mode operation for forced high brightness when required
- High quality light output
- No multi-color shadows
- Optical zoom models with 8-22° cone of light adjustable field angles
- 1-5 channel DMX control
- ETL, cETL, CE listed
- RDM compatible

FEATURES DIAGRAM

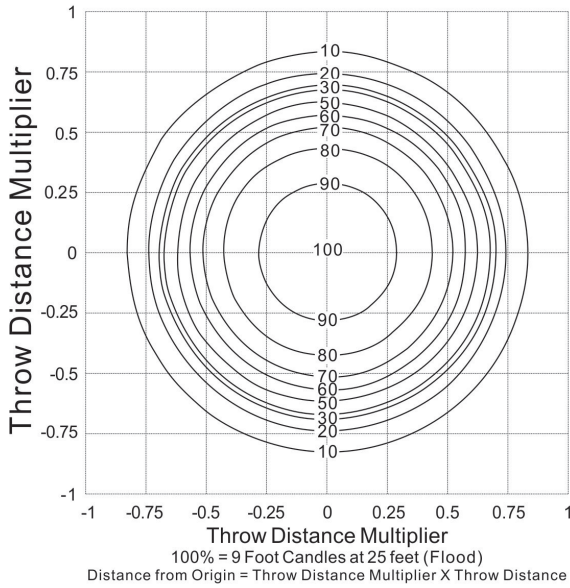

12 Hole Mounting Yoke

Lens Clip

Focusing Knob

Control Panel

Barndoor Clip

Front Accessory Slot (3)

Leviton Manufacturing Co., Inc. Energy Management, Controls and Automation

PRODUCT DATA

LEVITON

LEO LED Fresnel, 100W

SPECTRAL DISTRIBUTION—3200K

SPECTRAL DISTRIBUTION—5600K

ISO-FOOTCANDLE PLOT COSINE—FLOOD
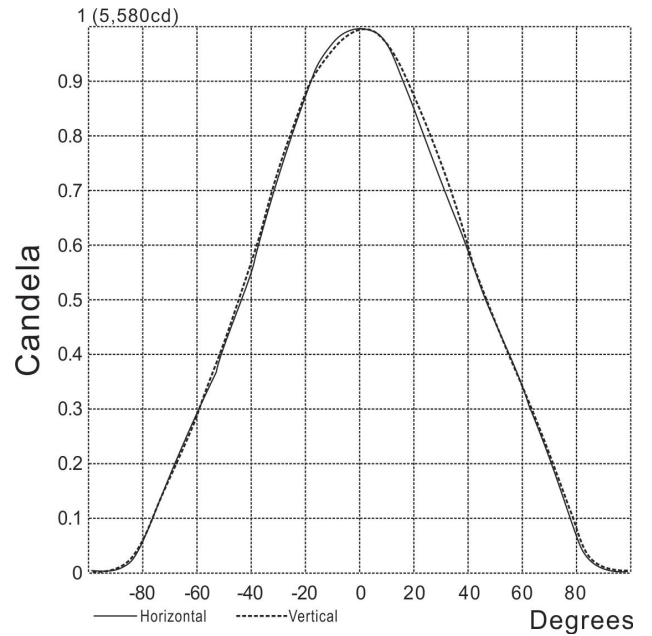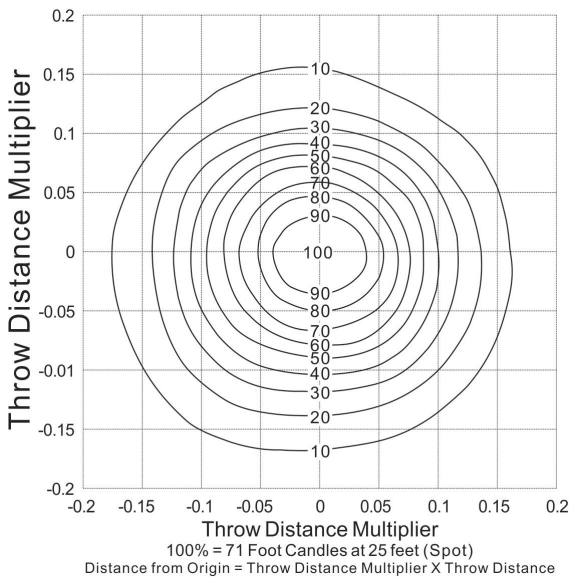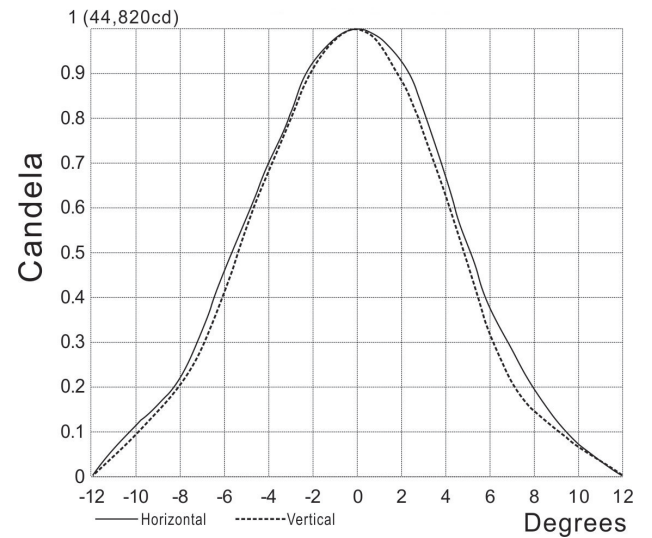
100% = 9 Foot Candles at 25 feet (Flood)
Distance from Origin = Throw Distance Multiplier X Throw Distance

CANDELA PLOT—FLOOD

1 (5,580cd)

Horizontal — Vertical

ISO-FOOTCANDLE PLOT COSINE—SPOT

100% = 71 Foot Candles at 25 feet (Spot)
Distance from Origin = Throw Distance Multiplier X Throw Distance

CANDELA PLOT—SPOT

1 (44,820cd)

Horizontal — Vertical

LEVITON

PHOTOMETRIC DATA

Spot

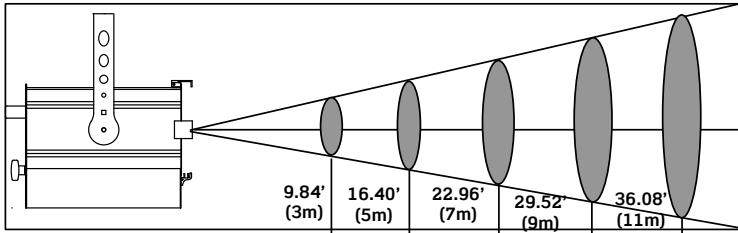| 1.96' (.6m) | 3.28' (1m) | 4.59' (1.4m) | 5.9' (1.8m) | 7.21' (2.2m) |

Distance

| 9.84' (3m) | 16.40' (5m) | 22.96' (7m) | 29.52' (9m) | 36.08' (11m) |
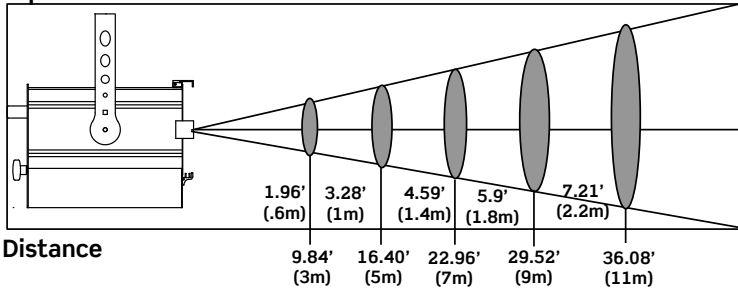
Flood

| 9.84' (3m) | 16.40' (5m) | 22.96' (7m) | 29.52' (9m) | 36.08' (11m) |

Distance

| 9.84' (3m) | 16.40' (5m) | 22.96' (7m) | 29.52' (9m) | 36.08' (11m) |

PHOTOMETRIC DISTANCE

Spot	DISTANCE									
	9.84' (3m)		16.40' (5m)		22.96' (7m)		29.52' (9m)		36.08' (11m)	
	FC	Lux	FC	Lux	FC	Lux	FC	Lux	FC	Lux
3,200K	376	4050	135	1458	69.11	744	42	450	28	301
5,600K	462	4980	166	1793	85	915	51	553	34	370
Flood	9.84' (3m)		16.40' (5m)		22.96' (7m)		29.52' (9m)		36.08' (11m)	
	FC	Lux	FC	Lux	FC	Lux	FC	Lux	FC	Lux
3,200K	49	530	17	191	9	97	5	58	3	39
5,600K	57	620	20	223	10	114	6	69	4	46

DIMENSIONS

14.56" (370mm)

6.96" (177mm)

Top view

Side view

9.64" (245mm)

15.15" (385mm)

9.64" (254mm)

Front view

LEO LED Fresnel, 100W

SPECIFICATIONS

LEO LED Fresnel, 100W
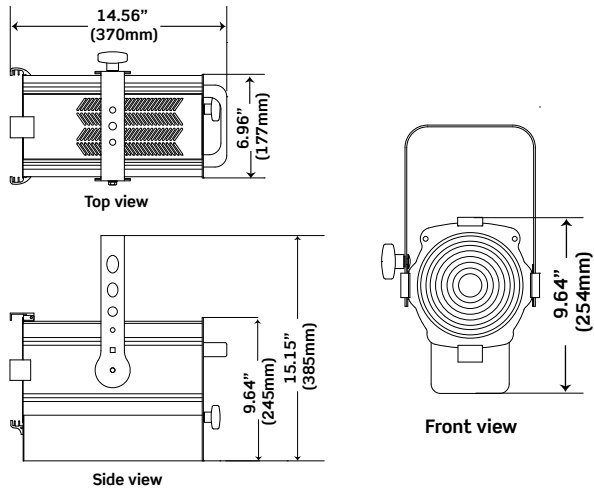
MECHANICAL	
Construction	Extruded aluminium alloy and steel plates for a lightweight and rigid construction
Paint/Finish	Black epoxy-polyester powder paint and anodizing, available in white, custom order
Mounting	1/2" standard and offset
Lens	5.90" (150mm) Fresnel lens
Color frame	Metal, 12" x 12" (305mmx305mm), black
ELECTRICAL	
Light source	100W LED array, white, 3,200K or 5,600K, CRI 90+
Power input	100-240VAC, 50/60 Hz, PowerCon, locking 3 pole connector, white
Power consumption	105W at full power, 5W in sleep mode
Power output/feed through	powerCON locking 3 pole connector, 8A max, white
Cable	2m, 3x1.5mm² flexible cable to bare ends
Compliance	ETL, cETL, CE
OPERATION	
Working position	Max tilting +45 to -90° from horizontal
Focus adjustment	Screw focus with rear control knobs
Field angle	16-58° (half peak angle)
Beam shaping	Barn door accessory
DMX channels	1 dimming channel, 4 optional control attributes
RDM	ANSI E1 .20-2006 RDM
Dimming	0-100%, DMX or local dimming knob control
LED temperature	Built-in sensor for real time monitoring and adjustment
Fan speed control	Automatically adjustable or 4 fan speed levels with forced quiet mode
Built-in effects	8; manual or remote control
LED TYPE	
100W X 1	White LED light engine, 50,000 hours at 77° F (25°C) max
Beam color temperature	3200K or 5600K
Color Rendering Index (CRI)	90+ CRI
ENVIRONMENTAL	
Operation humidity	5-95% non-condensing
Operation temperature	32-95° F (0-35°C)
OTHER	
Accessories	Safety bond, metal color frame, safety guard
Weight	27.55lbs (12.5kg)
ORDERING	
LFD10-30B	LEO LED Fresnel, 100W, 3200K, powerCON input & output, supplied with PBG power cable and gel frame, includes color frame, safety guard, safety cable, and 36" cord with NEMA 5-15 (Edison/PBG) plug, color: black
LFD10-50B	LEO LED Fresnel, 100W, 5600K, powerCON input & output, supplied with PBG power cable and gel frame, includes color frame, safety guard, safety cable, and 36" cord with NEMA 5-15 (Edison/PBG) plug, color: black

G-9716/E16-aa