FXLuminaire®

PROJECT

CATALOG #

TYPE

NOTES

Optional Long Shroud

FR Up Light **DESIGNER** PREMIUM

The FR reflects the elegance and performance of precious metals. As a close extension of the existing NR fixture, the FR's smaller size ensures up to a 3LED output, with all the color filters, beam angles, and other features associated with FX Luminaire integrated LEDs.

Quick Facts

- Machined brass and extruded copper
- 10' (3 m) lead
- ½" (13 mm) NPS thread
- Cree® integrated LEDs
- Tamper-resistant features

- Color temperature filters
- Compatible with Luxor® technology
- Input voltage: 10-15V
- Suits MR-11 lens accessories (hex baffle, spread lens, etc.)

2" (51 mm)

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6.1" (154 mm)

6.7" (171 mm)

6.9" (174 mm)

7.5" (191 mm)

½"-14 (13 mm) NPSM
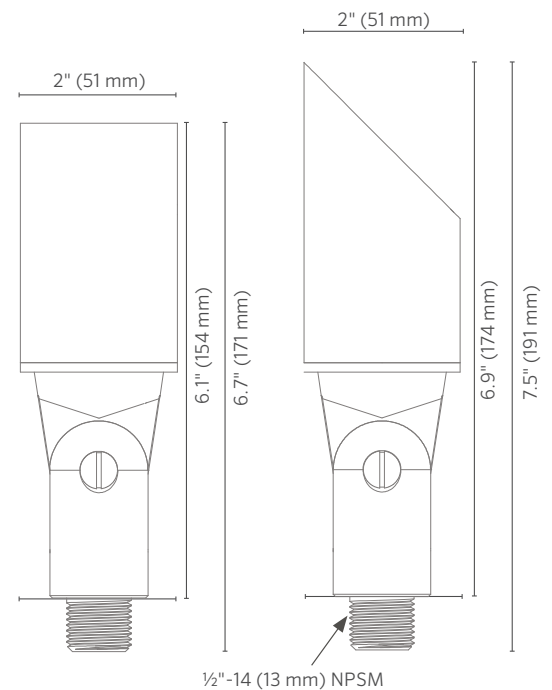
FR Up Light SPECIFICATIONS

Output	1LED	3LED	3LEDT	ZDC
Total Lumens †	65	167	105	113
Input Voltage	10 to 15V	10 to 15V	10 to 15V	11 to 15V
Input Power (W)	2.0	4.2	4.2	6.0
VA	2.4	4.5	4.5	7.2
Efficacy (Lumens/Watt)	32	40	30	35
Color Rendering Index (CRI)	73	71	--	83
Center Beam Candlepower*	291	779	498	220
Dimming	PWM, Phase**	PWM, Phase**	PWM, Phase**	PWM, Phase**
RGBW Available	No	No	No	Yes
Luxor Compatibility				
Default	Zoning	Zoning	--	Zoning
ZD Option	Zoning/Dimming	Zoning/Dimming	Zoning/Dimming	Zoning/Dimming
ZDC Option	--	--	--	Zoning/Dimming/Color
Minimum Rated Life (L70)	50,000 Hrs	50,000 Hrs	50,000 Hrs	50,000 Hrs

*   Information not available for Flood or Wide Flood.
** For optimal performance, use a trailing-edge, phase-cut dimmer.
†   Measured using the 3,900K CCT lens. Multipliers for other CCTs include 0.80 (2,700K), 0.65 (4,500K), and 0.65 (5,200K).

FX Luminaire
FX Luminaire is an industry-leading manufacturer of landscape and architectural lighting products with a focus on the advancement of LED technology and digital lighting control with zoning, dimming, and color adjustment capabilities. We offer a full spectrum of highly efficient lighting fixtures that can be utilized to create elegant, cutting-edge landscape lighting systems for commercial or residential applications. Our products are available exclusively via our extensive professional distributor network.

Materials
C360 brass housing, knuckle assembly, and angled glass support with brass hardware. C110 copper shroud.

Socket
Socket contains MoistureBlock™ technology, preventing moisture from wicking up into sealed areas of the fixture.

Wiring
18 AWG (1 mm); SPT-1W; 220°F (105°C); 300V; 10' (3 m) length

Lamp
Integrated module with Cree LEDs. Gold-plated connectors and conformal coated for maximum reliability and corrosion resistance. Proprietary onboard intelligent driver uses firmware-controlled temperature regulation, maximizing LED life. Field upgradeable and replaceable, the LEDs are rated to 50,000 hrs. Maximum drive current: 1 A.

Optics
Polycarbonate color temperature adjustment lenses included with fixture: 2,700K (preinstalled), 3,900K (no lens), 4,500K, and 5,200K. Interchangeable optics for 10°, 20°, 30°-32°, or 55-58° distributions ordered pre-assembled to fixture. Color temperature and beam angle lenses field serviceable. For additional color filters, spread lenses, hex baffles, etc., use MR-11-sized accessories.

Manufacturing
ISO 9001:2015 certified facility

Power
Input 10-15VAC/VDC 50/60Hz. Remote transformer required (specify separately).

Housing
Machined brass housing with capacity for 1LED, 3LED, or ZDC integrated LEDs.

Shroud
Extruded copper shroud with 90° cutoff (standard) or 45° long shroud option. Drainage hole feature on 90°; not necessary on angled shroud.

Lens
Tempered glass lens with shock resistance and high tolerance for thermal expansion and stress.

Finish
Options of natural brass/copper finish or antiqued finish with brushed (Antique Bronze) or tumbled (Antique Tumbled) effect. Antique finishes sealed with a clear TGIC powder coat layer.

Ambient Operating Temperature
0°F to 140°F (-18°C to 60°C)

Hardware
Brass angle lock screw. Includes large slotted ABS spike. Tamper-resistant locking screw included.

Weight
1.8 lbs. (0.8 kg)

Sustainability
Innovation meets conservation in the design and manufacturing of our products. Where we can, we use recycled materials while maintaining superior functionality. Our LED products provide high-quality light at optimal energy efficiency, lifespan, and durability.

Knuckle
Machined brass knuckle with ½"-14 (13 mm) NPSM threads. Compress and lock features prevent slip after installation. Complete adjustability over 220° of vertical adjustment.

Wildlife-Friendly Lighting
Available with wildlife-friendly amber LEDs.

Warranty
10-year limited warranty

Control
ZD or **ZDC** utilizes Luxor technology to zone light fixtures in up to 250 groups, dim each group in 1% increments between 0 and 100%, or change to one of 30,000 colors with RGBW LEDs. Select the ZD option for zoning/dimming or ZDC for zoning/dimming/color. Standard fixture is zoneable with **Luxor**.

Installation Requirements
Designed for installation in the upward direction only. Install drainage hole downward when applicable.

Listings
Compliant per IEC 60598-1 and IEC 60598-2-7 when used with International Spike Kit ("EKITSPIKE") or alternate mount greater than or equal to IP65.

Fixture Size	Luxor Option	Output	Options	Finish	
FR*	■ **[default]** *Zone*	■ **1LED** *65 Lumens*	■ **[default]** *Straight Shroud (90°)*	■ **CU** *Natural Copper*	
	■ **ZD** *Zone/Dim*	■ **3LED** *167 Lumens*	■ **LS** *Long Shroud (45°)*	■ **AB** *Antique Bronze*	
		■ **3LEDT**** *Wildlife-Friendly Amber (585-595 nm)*		■ **AT** *Antique Tumbled*	
	■ **ZDC** *Zone/Dim/Color*	■ **[default ZDC]** *167 Lumens*		■ **NP** *Nickel Plate*	

EXAMPLE FIXTURE CONFIGURATION: **FR–1LED–LS–AB**
* Ships with Large Slot Spike (LSS)
** Available with ZD Luxor option and CU, AB, AT, or NP finishes only.

FR	–		–		–		–	

MOUNTING OPTIONS: Specify Separately

Mounts	Catalog No.	
■ **POST MOUNT** *2.5" (64 mm) x 13" (330 mm)*	PM-XX**	
■ **GROUND MOUNT** *2.7" (67 mm) Diameter*	GM-XX**	
■ **GUTTER MOUNT** *4.0" (102 mm) x 4.0" (102 mm)*	GM-SS	
■ **VERSABOX** *2.2" (57 mm) x 1.5" (39 mm)*	VB-050-XX**	
■ **SUPER J-BOX SPIKE** *2.5" (64 mm) x 12" (305 mm)*	SJ-XX**	

RISER OPTIONS: Specify Separately

Riser	Code	
■ **RISER** *1" (25 mm) Diameter Copper Riser*	YY-R-GT-XX**	
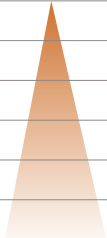
LENS ACCESSORIES: Specify Separately

Item	Code	
■ **HEX BAFFLE** *MR-11 Size*	250015250000	
■ **SOLITE SPREAD LENS** *MR-11 Size*	250015420000	
■ **FROSTED LENS** *MR-11 Size*	250010480000	
■ **FLOOD LENS** *1 LED Size*	1LEDFLLENS	
■ **WIDE FLOOD LENS** *1 LED Size*	1LEDWFLLENS	

**YY = riser height in inches (6" increments between 6" and 36"; 150 mm increments between 150 mm and 900 mm), XX = finish code
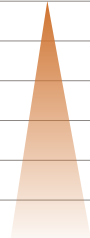
FR 1 LED Illuminance at a Distance

Feet (Meters)	Center Beam	Beam Width
	Foot-Candle (Lux)	22.0°
4' (1.2 m)	18 fc (192 lx)	2' (0.5 m)
8' (2.4 m)	5 fc (48 lx)	3' (1.0 m)
12' (3.7 m)	2 fc (22 lx)	5' (1.4 m)
16' (4.9 m)	1.1 fc (19 lx)	6' (1.9 m)
20' (6.1 m)	0.7 fc (8 lx)	8' (2.4 m)
24' (7.3 m)	0.5 fc (5 lx)	9' (2.8 m)
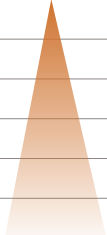
FR 3 LED Illuminance at a Distance

Feet (Meters)	Center Beam	Beam Width
	Foot-Candle (Lux)	22.0°
4' (1.2 m)	48 fc (517 lx)	2' (0.5 m)
8' (2.4 m)	12 fc (129 lx)	3' (1.0 m)
12' (3.7 m)	5 fc (57 lx)	5' (1.4 m)
16' (4.9 m)	3 fc (32 lx)	6' (1.9 m)
20' (6.1 m)	1.9 fc (21 lx)	8' (2.4 m)
24' (7.3 m)	1.3 fc (14 lx)	9' (2.8 m)
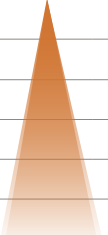
FR 3 LEDT Illuminance at a Distance

Feet (Meters)	Center Beam	Beam Width
	Foot-Candle (Lux)	21.7°
4' (1.2 m)	31 fc (335 lx)	2' (0.5 m)
8' (2.4 m)	8 fc (84 lx)	3' (1.0 m)
12' (3.7 m)	4 fc (38 lx)	5' (1.4 m)
16' (4.9 m)	2 fc (22 lx)	6' (1.9 m)
20' (6.1 m)	1.3 fc (14 lx)	8' (2.4 m)
24' (7.3 m)	0.9 fc (10 lx)	9' (2.8 m)
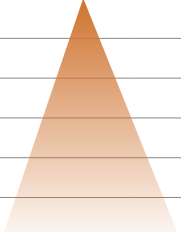
FR 3 LEDT LS Illuminance at a Distance

Feet (Meters)	Center Beam	Beam Width	
	Foot-Candle (Lux)	Vert. 15.7°	Horiz. 16.6°
4' (1.2 m)	67 fc (718 lx)	1' (0.3 m)	1' (0.4 m)
8' (2.4 m)	17 fc (180 lx)	2' (0.7 m)	2' (0.7 m)
12' (3.7 m)	7 fc (80 lx)	3' (1.0 m)	4' (1.1 m)
16' (4.9 m)	4 fc (45 lx)	4' (1.3 m)	5' (1.4 m)
20' (6.1 m)	3 fc (29 lx)	6' (1.7 m)	6' (1.8 m)
24' (7.3 m)	1.9 fc (21 lx)	7' (2.0 m)	7' (2.1 m)

FR ZDC Illuminance at a Distance

Feet (Meters)	Center Beam	Beam Width
	Foot-Candle (Lux)	41.2°
4' (1.2 m)	14 fc (148 lx)	3' (0.9 m)
8' (2.4 m)	3 fc (37 lx)	6' (1.8 m)
12' (3.7 m)	1.5 fc (16 lx)	9' (2.7 m)
16' (4.9 m)	0.9 fc (10 lx)	12' (3.7 m)
20' (6.1 m)	0.6 fc (7 lx)	15' (4.6 m)
24' (7.3 m)	0.4 fc (4 lx)	18' (5.5 m)

NOTE: Photometric data for 1LED and 3LED configurations displayed using 3,900K filter with spot lens.