FXLuminaire®

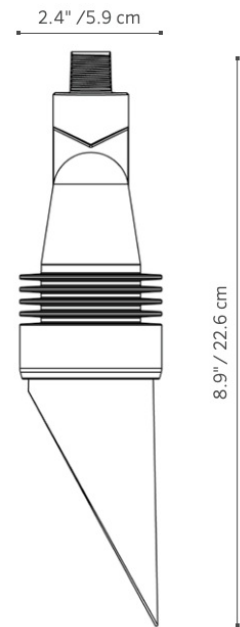## **JB** LED Down Light | **DESIGNER** PLUS

PROJECT

CATALOG #

TYPE

NOTES

The JB is FX Luminaire's original LED Down Light. The JB solves the problem of changing lamps in complicated areas by providing long-life LEDs. The pure color of the LED allows you to add the supplied blue lens to create a natural moonlight effect.

Quick Facts

- Die-cast aluminum
- Two-layer marine-grade anodization and powder coat finish
- Lumileds® Integrated LEDs
- ProAim™ adjustability
- Beam angle lenses
- Compatible with Luxor® technology
- Phase and PWM dimmable
- Input voltage: 10-15V

2.4" /5.9 cm

8.9" / 22.6 cm

JB LED Down Light SPECIFICATIONS

Output	1LED	3LED	ZDC
Total Lumens†	101	246	62
Input Voltage	10 to 15V	10 to 15V	11 to 15V
Input Power	1.9 W	4.0 W	6.0 W
Power Consumption (VA)	2.2 W	4.4 W	7.2 W
Efficacy (lm/W)	55	63	20
Color Rendering Index (CRI)	83	82	80+
Center Beam Candlepower*			
Wide Flood (60)	136	381	114
Dimming			
Primary Dimming (Transformer)	Consult transformer specifications		
Secondary Dimming (Fixture)	Phase-cut**	Phase-cut**	Luxor
RGBW Available	No	No	Yes
Luxor Compatibility			
Default	Zoning	Zoning	--
ZD Option	Zoning/Dimming	Zoning/Dimming	--
ZDC Option	--	--	Zoning/Dimming/Color
Minimum Rated Life L70 (Hrs)	72,000	72,000	55,000

 * Information for Flood available in IES files
** For optimal performance, use a trailing-edge, phase-cut dimmer.
† Measured using the 2,700K CCT option.

JB LED Down Light SPECIFICATIONS

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 specification-driven 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

Die-cast aluminum A380 housing and shroud with stainless steel hardware. Die-cast zinc/aluminum alloy knuckle.

Knuckle

Die-cast zinc/aluminum alloy knuckle with ½"-14" NPSM threads. Compress and lock features prevent slip after installation. 9° increments adjustability over 220° of vertical adjustment.

LED

Integrated LED module with Lumileds LEDs. Gold-plated connectors and conformal coated for maximum reliability and corrosion resistance. Proprietary on-board intelligent driver uses firmware-controlled temperature regulation, maximizing LED life. Field upgradeable and replaceable, the LEDs are rated to 72,000 hrs. Maximum drive current: 1 A.

Optics

Color temperature defined by part number. Beam angle lenses included with fixture: 60° (pre-installed) and 35°. For additional color filters, spread lenses, hex baffles, etc., use MR-11 sized accessories (MR-11: 1.375" (34.9 mm) dia. x 1.1 mm thickness). Beam angle is calculated using LM-79 method for SSL luminaires.

Finish

Two-layer protection of sulfuric acid anodization and polyester TGIC powder coat, providing superior outdoor weathering in all conditions. Tested to ASTM standards.

Hardware

Stainless steel angle lock screw with setscrew. Includes mini mount.

Wiring

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

Sockets

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

Power

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

Housing

Die-cast aluminum housing with capacity for 1LED, 3LED, or ZDC integrated LEDs.

Glare Control

Die-cast aluminum shroud with 60° cutoff. Straight should selection is 4'' (100 mm) in length.

Weight

1.9 lbs. (0.9 kg)

Lens

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

International Compliance

International Compliance Compliant per IEC 60598-1 and IEC 60598-2-4 when used with the TreeBox® ("TB-XX") or alternate mount greater than or equal to IP65, or by selecting the "e" version.

Ambient Operating Temperature

0°F to 140°F (-18°C to 60°C)

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.

Installation Requirements

Designed for installation in the downward direction only.

Control

ZD or ZDC options utilize 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.

Warranty

10-Year Limited Warranty

Listings

CE   RoHS COMPLIANT   c(UL)us LISTED   (UL) MX-NOM   IP66

LANDSCAPE AND ARCHITECTURAL LIGHTING

Learn more. Visit: fxl.com | +1 760.744.5240

Generated 16 Jun 2023 20:38:28

Fixture	Luxor Option	Lamp	Compliance	Shroud	Mounting	Finish	
JB	**[default]** Zone	**1 LED** 2.0W/2.4VA	**[default]** North America (UL-listed)	**[default]** 60° Angled Shroud	**[default]** Mini-Mount	**BZ** Bronze Metallic	
	ZD Zone/Dim	**3 LED** 4.0W/4.4VA	**e** Int'l (CE Certified)	**SS** 3" Straight Shroud	**[default]** Bracket Mount (e only)	**DG** Desert Granite	
	ZDC Zone/Dim/Color	**[default ZDC option]** 6.0W/7.2VA				**WI** Weathered Iron	
						SB Sedona Brown	
						FB Black	
						FW Flat White	
						SV Silver	

☐ — ☐ — ☐ — ☐ — ☐ — ☐ — ☐

EXAMPLE FIXTURE CONFIGURATION: *JB*–XX–XXXX–XX

JB LED Down Light PHOTOMETRICS

JB-1LED Illuminance at a Distance			
Distance	**Center Beam fc**	**Beam Width**	
Feet (Meters)	**Foot-Candles (Lux)**	**Vertical: 44.6°**	**Horizontal: 48.4°**
5 ft (1.5 m)	5.1 fc (55 lx)	4.1 ft (1.2 m)	4.5 ft (1.4 m)
10 ft (3.0 m)	1.3 (14 lx)	8.2 ft (2.5 m)	9.0 ft (2.7 m)
15 ft (4.6 m)	0.6 fc (6 lx)	12.3 ft (3.7 m)	13.5 ft (4.1 m)
20 ft (6.1m)	0.3 fc (3 lx)	16.4 ft (5.0 m)	18.0 ft (5.5 m)
25 ft (7.6 m)	0.2 fc (2 lx)	20.5 ft (6.2 m)	22.5 ft (6.9 m)
30 ft (9.1 m)	0.1 fc (2 lx)	24.6 ft (7.5 m)	27.0 ft (8.2 m)

JB-1LED-SS Illuminance at a Distance			
Distance	**Center Beam fc**	**Beam Width**	
Feet (Meters)	**Foot-Candles (Lux)**	**Vertical: 36.6°**	**Horizontal: 30.6°**
5 ft (1.5 m)	5.5 fc (59 lx)	3.3 ft (1.0 m)	2.7 ft (0.8 m)
10 ft (3.0 m)	1.4 fc (15 lx)	6.6 ft (2.0 m)	5.5 ft (1.7 m)
15 ft (4.6 m)	0.6 fc (7 lx)	9.9 ft (3.0 m)	8.2 ft (2.5 m)
20 ft (6.1m)	0.3 fc (4 lx)	13.2 ft (4.0 m)	10.9 ft (3.3 m)
25 ft (7.6 m)	0.2 fc (2 lx)	16.5 ft (5.0 m)	13.7 ft (4.2 m)
30 ft (9.1 m)	0.2 fc (2 lx)	19.8 ft (6.0 m)	16.4 ft (5.0 m)

JB-3LED Illuminance at a Distance			
Distance	**Center Beam fc**	**Beam Width**	
Feet (Meters)	**Foot-Candles (Lux)**	**Vertical: 40.8°**	**Horizontal: 44.4°**
5 ft (1.5 m)	15 fc (157 lx)	3.7 ft (1.1 m)	4.1 ft (1.2 m)
10 ft (3.0 m)	3.6 fc (39 lx)	7.4 ft (2.3 m)	8.2 ft (2.5 m)
15 ft (4.6 m)	1.6 fc (17 lx)	11.2 ft (3.4 m)	12.2 ft (3.7 m)
20 ft (6.1m)	0.9 fc (10 lx)	14.9 ft (4.5 m)	16.3 ft (5.0 m)
25 ft (7.6 m)	0.6 fc (6 lx)	18.6 ft (5.7 m)	20.4 ft (6.2 m)
30 ft (9.1 m)	0.4 fc 4 lx)	22.3 ft (6.8 m)	24.5 ft (7.5 m)

JB-3LED-SS Illuminance at a Distance			
Distance	**Center Beam fc**	**Beam Width**	
Feet (Meters)	**Foot-Candles (Lux)**	**Vertical: 34.5°**	**Horizontal: 34.4°**
5 ft (1.5 m)	14 fc (151 lx)	3.1 ft (0.9 m)	3.1 ft (0.9 m)
10 ft (3.0 m)	3.5 fc (38 lx)	6.2 ft (1.9 m)	6.2 ft (1.9 m)
15 ft (4.6 m)	1.6 fc (17 lx)	9.3 ft (2.8 m)	9.3 ft (2.8 m)
20 ft (6.1m)	0.9 fc (10 lx)	12.4 ft (3.8 m)	12.4 ft (3.8 m)
25 ft (7.6 m)	0.6 fc (6 lx)	15.5 ft (4.7 m)	15.5 ft (4.7 m)
30 ft (9.1 m)	0.4 fc 4 lx)	18.6 ft (5.7 m)	18.6 ft (5.7 m)

LANDSCAPE AND ARCHITECTURAL LIGHTING

Learn more. Visit: fxl.com | +1 760.744.5240

Generated 16 Jun 2023 20:38:28

MOUNTING OPTIONS: Specify Separately

Mounts	Catalog No.		Mounts	Catalog No.	
Straight Coupling	COUP-XX*		**90° Coupling**	ELBW-050-XX*	
Mini J-Box for ½" Thread	MJB-050-XX*		**Mini Mount**	MM-050-XX*	
TreeBox® Mount with ½" Thread	TB-XX*		**T-Mount Coupling with ½" Thread**	TMNT-050-XX*	
Tree Ring	TR-YY*-6P-XX*		**VersaBox® Mount with ½" Thread**	VB-050-XX*	
Wall Mount Knuckle	WM-XX*		**Single-Gang Wall Plate with ½" Thread**	WP-1G-050-XX*	
Round Wall Plate with ½" Thread	WP-RD-050-XX*		**1.0" (25 mm) Copper Riser for GT Path Light**	YY*-R-GT-XX*	
Sign Light Riser, Aluminum	YY*-R-SL-XX*		**Aluminum Riser, ¾" Diameter**	YY*-R-XX*	

GLARE OPTIONS: Specify Separately

Glare	Catalog No.		Glare	Catalog No.
Hex Baffle for MR-11 LED Lamps	250015250000			

POWER OPTIONS: Specify Separately

Power	Catalog No.	
Plug-in transformer, 6W	MT-6W	
Lighting Fixture Surge Module	SURGE-MOD	

Power	Catalog No.	
Step-Down Transformer, UV (120/277 V to 12 V)	ST-UV	