

FlexBeam™ FLX Series

LED Petroleum Canopy Light

PROJECT NAME:	
DATE:	
CATALOG #:	
NOTES:	

Product Highlights

- ▶ Optional directional High Output Module can be rotated to aim light wherever it is needed
- ▶ Available with flat lens, drop lens, and directional optics
- ▶ Adjustable color temperature and power levels
- ▶ 10 Year Limited Warranty
- ▶ Compatible with JarvisLink™ networked lighting control system
- ▶ Produces up to 30,119 lumens



Ordering Guide

Example: FLX-10ML20-30K/40K/50K-YY-UV-DTO-WHT



PRODUCT FAMILY	LUMEN OUTPUT / WATTAGE	CCT	CUSTOMIZATION	INPUT VOLTAGE	DIMMING / CONTROL	COLOR
FLX Flexbeam Canopy Light	10ML20- 10,645 lm / 80 W 15,400 lm / 110 W 21,290 lm / 150 W Selectable Wattage	30K/40K/50K - 3000K/4000K/5000K Selectable CCT	YY - YY is standard	UV - 120-277V HV - 277-480V*	DTO - Standard option includes internal 12V aux and DTO wiring Z10R - Includes Z10 connector for Networked Lighting Controls and Other Sensors	WHT - White BRZ - Dark Bronze
	15ML30- 15,060 lm / 101W 19,787 lm / 134 W 30,119 lm / 202W Selectable Wattage					

*HV only available for 10ML20 model

Additional Field Installed Options and Accessories

FIXTURE ACCESSORIES		
	CATALOG #	DESCRIPTION
	FLX-A-OCT-AIML-V90	High Output Module with Directional Optics
	FLX-A-OCT-DRPL-V90	High Output Module with Drop Lens
	FLX-A-OCT-FC-V90	High Output Module with Full Cutoff Optics
	JL-Z10-SPM-EXT-WHT-V1	JarvisLink* Sensor - White Finish (Requires Z10 option)
	JL-Z10-WCM-WHT-V1	JarvisLink* Wireless Control Module - White Finish (Requires Z10 option)
	S-Z10-SPM-EXT-WHT-V1 Z10	Simple, non-networked Photo and Motion Sensor (Requires A315-Z10-V1 remote)
	A315-Z10-V1	Remote for S-Z10-SPM-EXT-WHT-V1 Z10
CONTROLS ACCESSORIES		
	FLX-A-SSBOX	Surface-mount box kit for FLX Series constructed from Stainless Steel
	SPD-110	10kV Surge Protector for 120-277V applications - Protects against surges according to UL1449 and IEEE C62.41.2 C
	SPD-110-HV	10kV Surge Protector for 277-480V applications - Protects against surges according to UL1449 and IEEE C62.41.2 C
	ACR225F	22.5" square adapter panel to mount FLX Series to existing 2x2 box lights
	ACR205F	20.5" square adapter panel to mount FLX Series to existing 2x2 box lights
	ACC235F	Canopy Cover Panel (also known as a 'beauty plate') for covering canopy stains when a 2x2 is being removed and an FLX FlexBeam fixture is being installed in the same location
	ACB235	Canopy Blank-Out Panel (for covering hole where old 2x2 fixture used to be)
	FLX-A-BLLBOX	Electrical Box for making connections to FLX Series
* JarvisLink Networked Lighting Control System requires prior training with Jarvis representative		

Electrical

- ▶ Input Voltage: 120-277V 50/60Hz or 277-480V 50/60Hz
- ▶ Power Factor: >.95 at full load
- ▶ Total Harmonic Distortion: <13% full load
- ▶ Operating Temperature Range: -25°C to 45°C Ambient (-14°F to 113°F)
- ▶ Power supply includes internal 6kV surge protection. Additional 10kV surge protection can be added as a field-installed option.

Electrical Load Table

ITEM #	LUMEN	WATTAGE	CURRENT (A)					
			120V	208V	240V	277V	347V	480V
FLX-10ML20	12L	80 W	0.67	0.38	0.33	0.29	0.23	0.17
	16L	110 W	0.92	0.53	0.46	0.40	0.40	0.23
	22L	150W	1.25	0.72	0.63	0.54	0.54	0.31
FLX-15ML30	15L	101W	0.84	0.49	0.42	0.36	-	-
	20L	134W	1.12	0.64	0.56	0.48	-	-
	30L	202W	1.68	0.97	0.84	0.73	-	-

Luminaire Data

JARVIS MODEL #	DLC PRODUCT ID	INPUT	POWER	LUMENS	CCT	CRI	PF
FLX-10ML20-30K/40K/50K-YY-UV-DTO-WHT	S-J3M3LG	120-277V or 277-480V 50/60Hz	80W / 110W / 150W	10,645 / 15,400 / 21,290 lm	3000K / 4000K / 5000K	≥ 80	≥ 0.9
FLX-15ML30-30K/40K/50K-YY-UV-DTO-WHT	In progress	120-277V 50/60Hz	101W / 134W / 202W	15,060 / 19,787 / 30,119 lm	3000K / 4000K / 5000K	≥ 80	≥ 0.9

Factory default setting listed in bold
 *DLC product ID represents factory default wattage. Contact factory for more information.

Zonal Lumens Summary

ZONE	LUMENS		% LUMINAIRE	
	FLX-10ML20	FLX-15ML30	FLX-10ML20	FLX-15ML30
Low (0-30°)	4,368.40	8,378.60	17.90%	27.82%
Medium (30-60°)	12,593.00	16,366.10	51.70%	54.30%
High (60-80°)	6,960.60	5,200.40	28.60%	17.26%
Very High (80-90°)	439.50	177.30	1.80%	0.59%
Uplight (90-180°)	0.00	0.00	0.00%	0.00%
Total Flux	24,361.00	30,122.40	100.00%	100.00%

Controls and Dimming

- ▶ 0-10V dim-to-off dimming leads are default on all models. The power supply is capable of providing 12VDC auxiliary output power for a variety of accessories.
- ▶ The FLX Series is compatible with the Jarvis Link networked lighting control system when ordered as the "Z10R" variant which includes a factory-installed Z10 receptacle.

This system allows the lights to communicate with each other via Bluetooth® signal. The system is capable of grouping, controlling and dimming lights through a number of methods including motion sensors, photo sensors, schedules, manual Bluetooth switches and more.

- ▶ The FLX Series is compatible with many other photosensors and motion sensor systems. Contact a Jarvis representative for more information.

- ▶ The Jarvis Link system is a wireless network that allows you to control your lighting remotely. When installed in light fixtures and properly set up, it can help you manage your lighting more effectively and save energy.
- ▶ Luminaires can be controlled onsite using an iPad via the Jarvis Link app, via onsite sensors, or via onsite Bluetooth switches. All luminaires onsite are accessible via the Jarvis Link app and can be controlled through a central location. Luminaires can also be commissioned to be controlled remotely via a centralized gateway accessed through a web browser.

Construction and Materials

- ▶ Housing is constructed from die-cast aluminum and finished with a corrosion resistant powder coat finish that is applied directly to housing material and will not crack or peel. Default color is white. Bronze and custom colors are available.
- ▶ Lens construction is impact-resistant UV-resistant polycarbonate.
- ▶ Luminaire's construction contains zero mercury.
- ▶ Fasteners are stainless-steel and will not rust or create rust-streaks.
- ▶ Patent pending design.

Optical System

- ▶ The FlexBeam FLX Series features impact-resistant polycarbonate optics which protect LEDs that are mounted onto metal-core circuit boards. Polycarbonate material is both impact and UV resistant. Metal-core circuit boards provide superior thermal management.
- ▶ Optional High Output Modules are available and sold separately. High output modules spread the existing fixture's LED power across a larger number of LEDs, increasing the efficiency and efficacy of the entire light fixture. High Output Modules are available with three different optical distributions - full cutoff, drop lens and directional.
- ▶ LED color temperature is selectable and can be set to 5000K, 4000K or 3000K during installation.
- ▶ Minimum CRI of 70 for 5000K LEDs / Minimum CRI of 90 for 3000K LEDs

Regulatory and Voluntary Qualifications

- ▶ UL certified to UL 1598 for both US and Canada
- ▶ DesignLightsConsortium® (DLC) Premium qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.
- ▶ State of California Title 24 Compliant when installed in accordance with local requirements
- ▶ IP66 Rated

Warranty and Lifetime

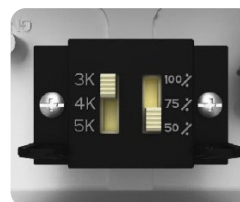
- ▶ FLX Series carries a 10-year limited warranty. Contact Jarvis representative for details.
- ▶ Projected LED lifetime exceeds 100,000 hours under most operating conditions. Lifetime projections are calculated using data including LM-79, LM-80 and TM-21 calculations. Contact Jarvis representative for details.

Lumen Maintenance

PROJECTED LUMEN MAINTENANCE					
OPERATING HOURS	0	25,000	50,000	75,000	100,000
LUMEN MAINTENANCE FACTOR	1	0.95	0.9	0.86	0.81
* Projected LM values based on extrapolated LM-80 performance data testing and TM-21 calculations					

Installation

- ▶ FLX Series installs into a standard gas station canopy deck pan using a ring collar design which requires only one canopy penetration. Additional self-drilling screws can be used for added rigidity.
- ▶ Installs in a 12" or 16" deck pan. Surface mount boxes are available.
- ▶ Luminaires ship from factory set to the highest wattage and 5000K CCT. To adjust these settings first ensure luminaire is not powered. Next remove center cover plate secured via 2 fasteners. Selector dip switches are located next to the LED driver. Once adjustments are made re-fasten the center cover plate.



**Wattage / CCT
Selector Switch**

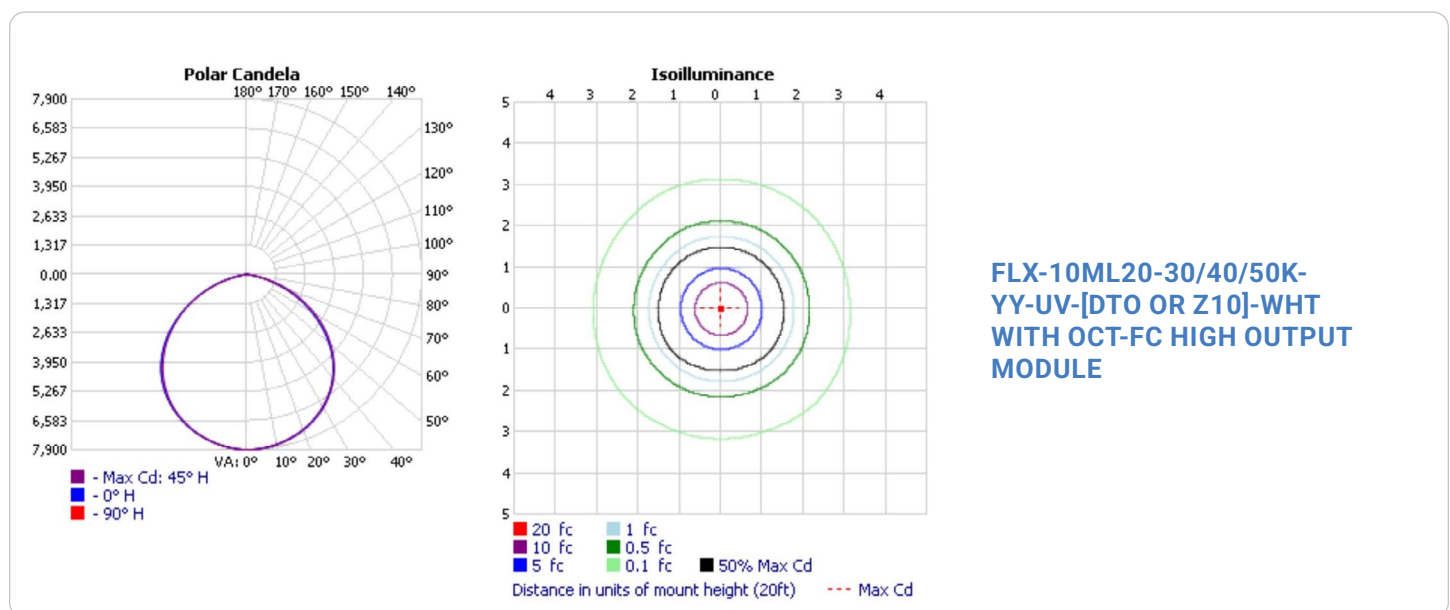
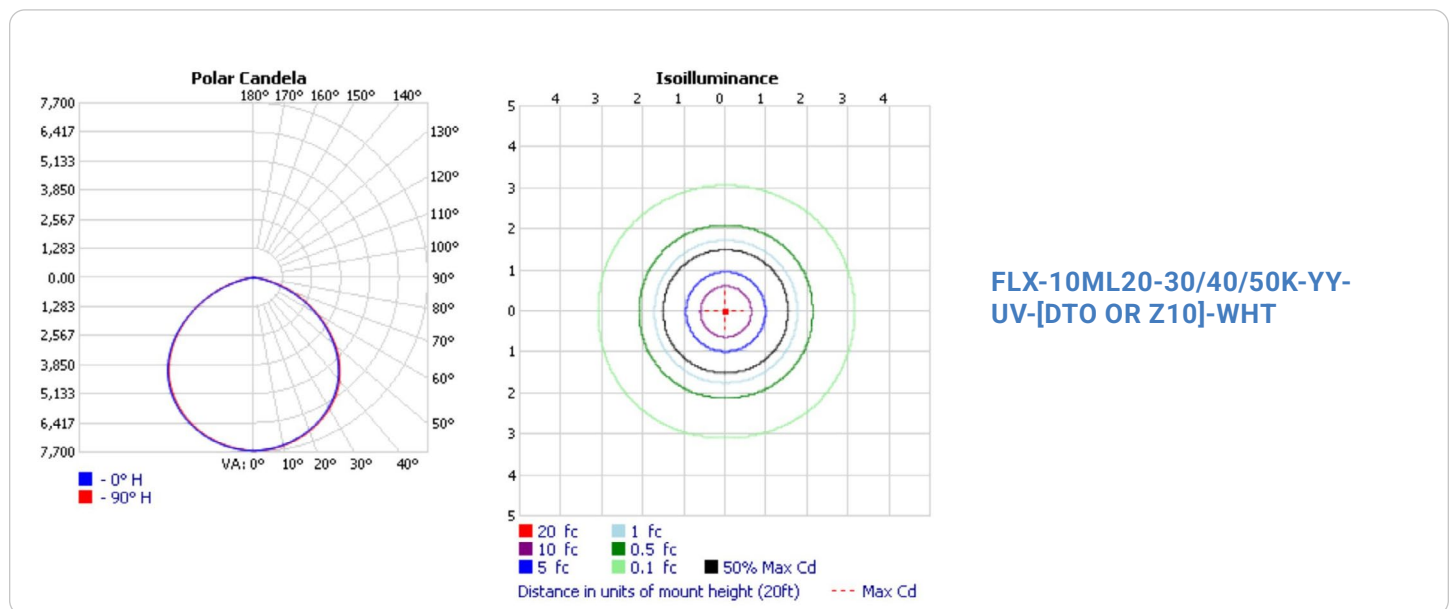
Packaging

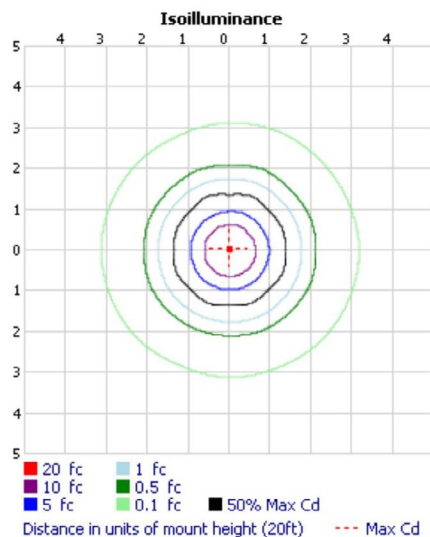
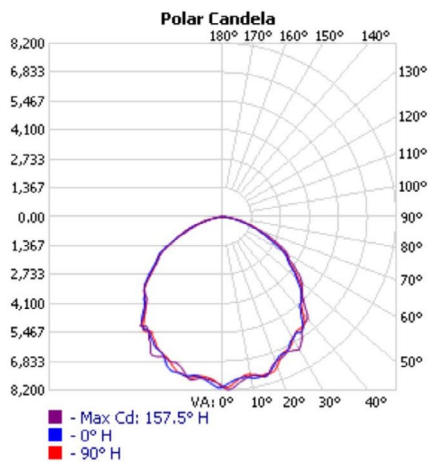
- Each FLX fixture ships in an individual carton labeled with the product code, CCT, and wattage setting, and includes the fixture, mounting hardware, and installation instructions. Fixtures are secured in molded foam inserts to protect against movement and damage during shipping.

CATALOG #	WEIGHT
FlexBeam FLX Fixture (fixture only, no High Output Modules)	14.9lbs
High Output Modules (all variants)	2.4lbs or less
Z10 Sensors (all variants)	0.2lbs or less

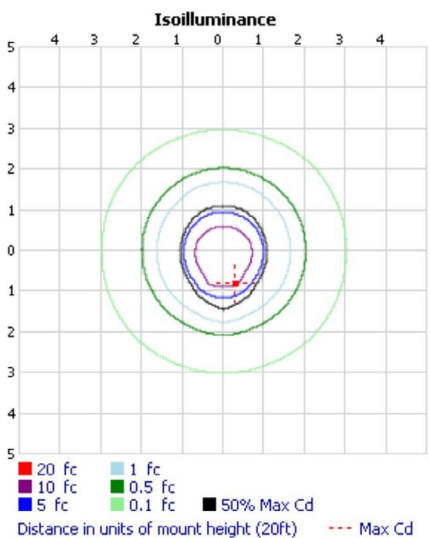
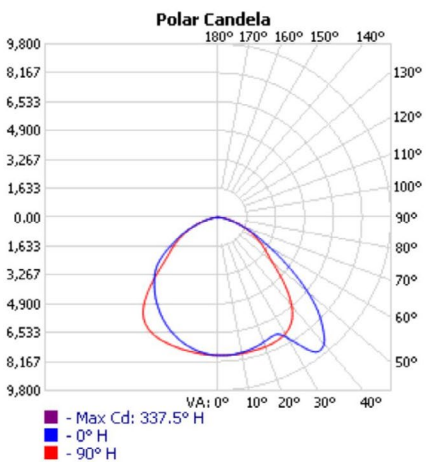
Photometrics

Photometric information, including LM-79 reports and .IES files are available for most models at www.jarvislighting.com. Site photometrics and lighting layouts are available. Contact a Jarvis representative.

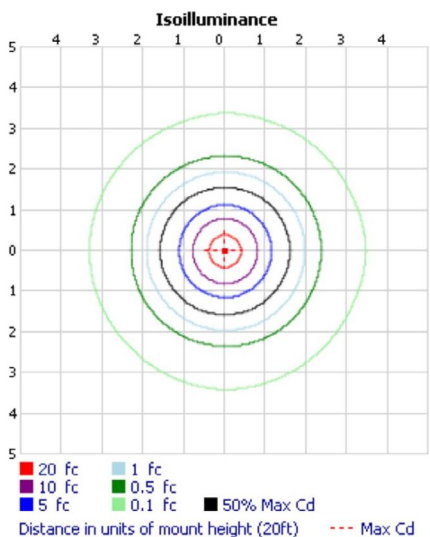
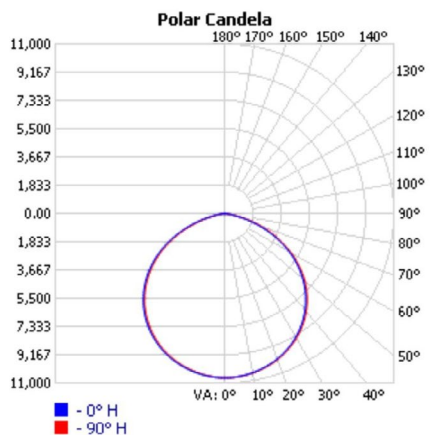




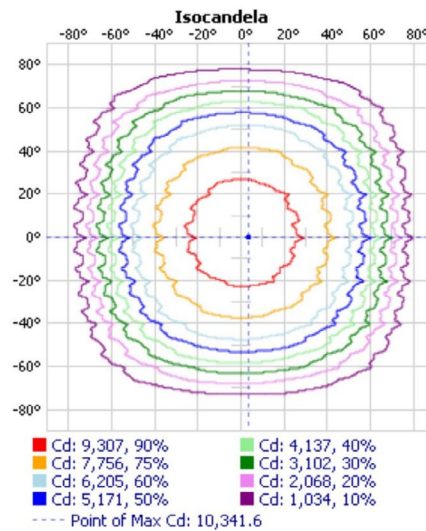
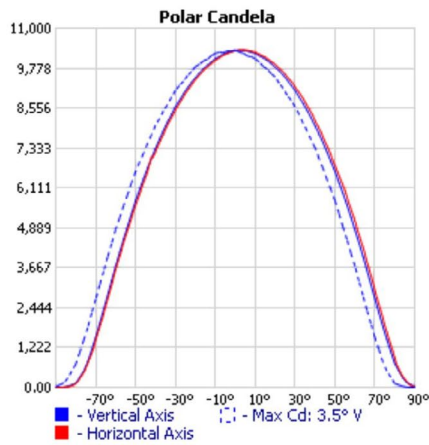
FLX-10ML20-30/40/50K-YY-UV-[DTO OR Z10]-WHT WITH OCT-DRPL HIGH OUTPUT MODULE



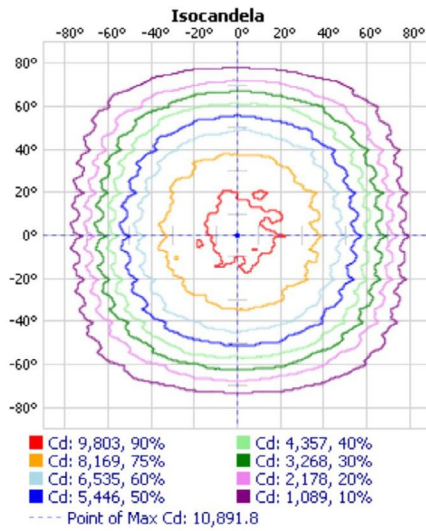
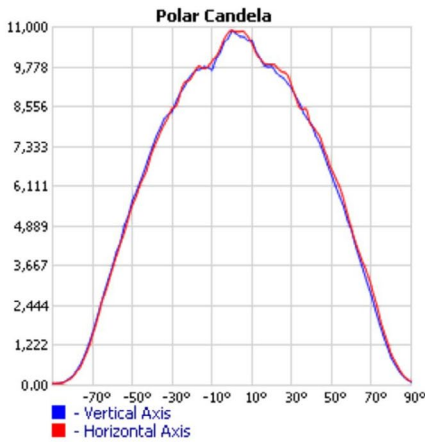
FLX-10ML20-30/40/50K-YY-UV-[DTO OR Z10]-WHT WITH OCT-AIML HIGH OUTPUT MODULE



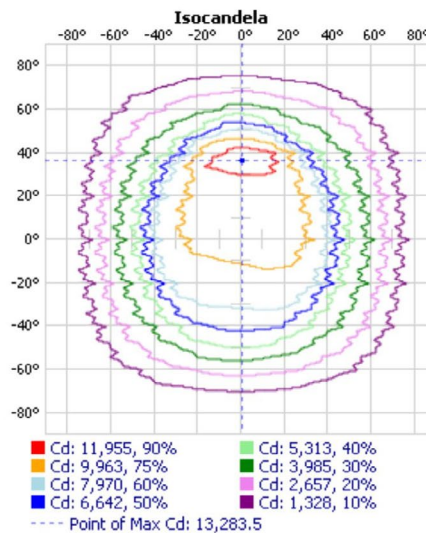
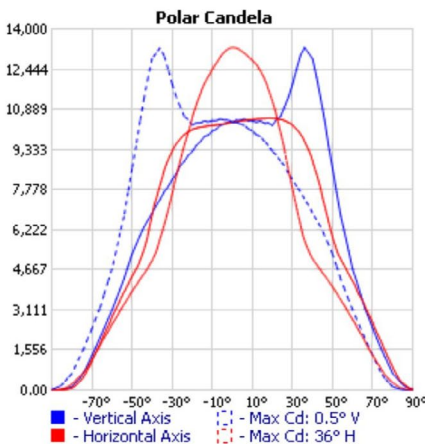
FLX-15ML30-30K/40K/50K-YY-UV-[DTO OR Z10]-WHT



FLX-15ML30-30K/40K/50K-YY-UV-[DTO OR Z10]-WHT WITH OCT-FC HIGH OUTPUT MODULE



FLX-15ML30-30K/40K/50K-YY-UV-[DTO OR Z10]-WHT WITH OCT-DRPL HIGH OUTPUT MODULE



FLX-15ML30-30K/40K/50K-YY-UV-[DTO OR Z10]-WHT WITH OCT-AIML HIGH OUTPUT MODULE

Additional Luminaire Photos



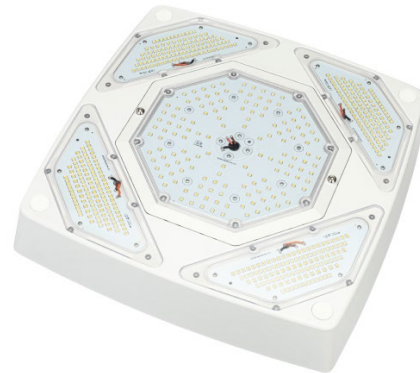
FLX FIXTURE REAR VIEW



FLX SIDE VIEW



**FLX WITH FLX-A-OCT-DRPL DROP LENS
HIGH OUTPUT MODULE**

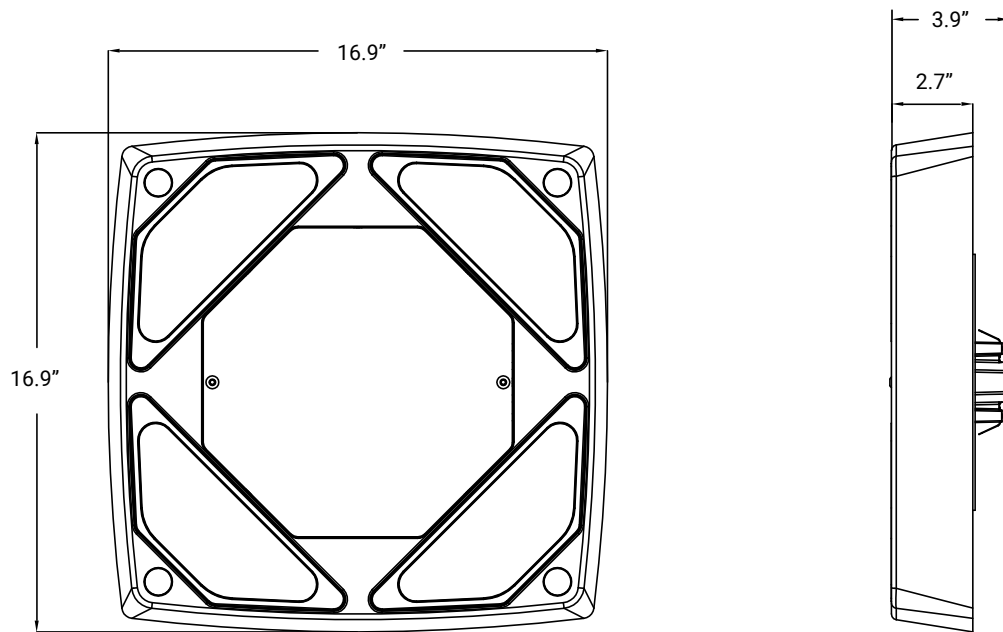


**FLX WITH FLX-A-OCT-FL FULL CUTOFF
HIGH OUTPUT MODULE**

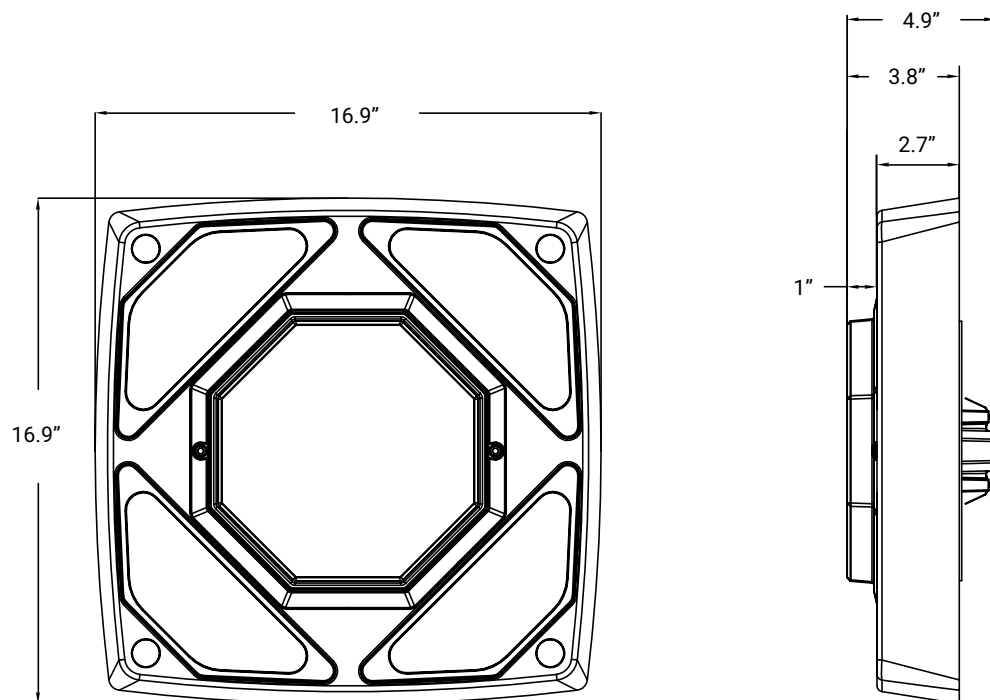


**FLX WITH STANDARD CENTER COVER
(NO OPTIONAL HIGH OUTPUT MODULE)**

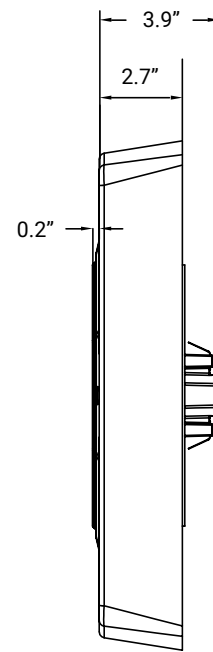
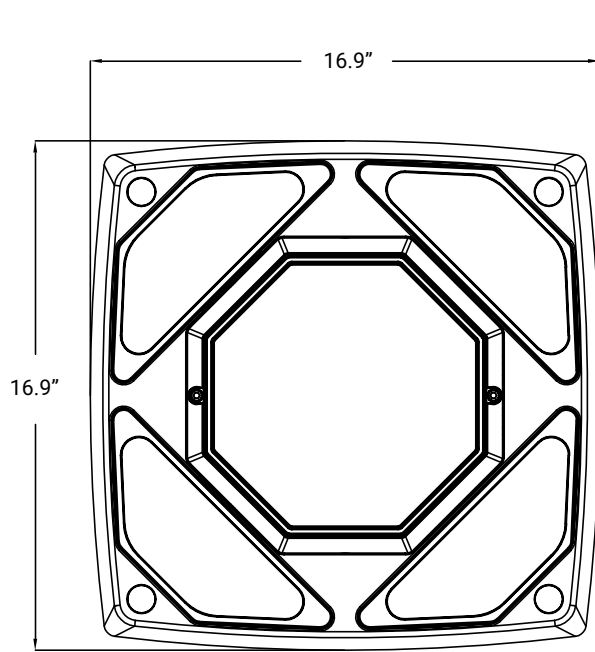
Dimensions



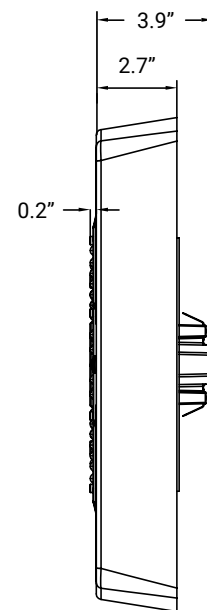
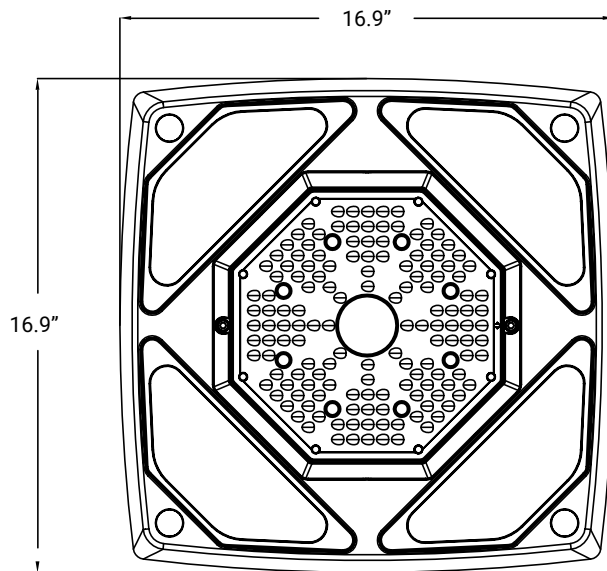
FLX WITH STANDARD CENTER COVER (NO OPTIONAL HIGH OUTPUT MODULE)



FLX WITH FLX-A-OCT-DRPL DROP LENS HIGH OUTPUT MODULE



FLX WITH FLX-A-OCT-FL FULL CUTOFF HIGH OUTPUT MODULE



FLX WITH FLX-A-OCT-AIML DIRECTIONAL OPTIC HIGH OUTPUT MODULE