

FSB

HIGH POWER FLOOD AND AREA LIGHTS

CCT¹ AND POWER SELECTABLE

These high-power flood lights are designed with ease of installation due to the slide on feature for mounting options and they allow for optic interchangeability to suit different applications. The color temperature and the power can be changed on site by sliding the CCT selectable switches. For energy savings and enhanced safety, this product series

Bronze



Black



comes with a 7 pin photocell receptacle for the ability to add a dusk till dawn photocell and includes a sensor adapter compatible with both smart and non-smart sensors. The FSB series is great for general lighting of grounds, storage yards, car dealerships, parking areas as well as flood lighting of signs and building facades.

FEATURES & SPECIFICATIONS

CONSTRUCTION

Physical Characteristics

- Die-cast aluminum housing, available in a black and bronze finish
- Housing design includes 2 front latches to facilitate the exchange of optic
- 7 pin photocell receptacle and shorting cap included. 3-pin and 7-pin photocells available as accessories
- CCT and Power select switches are located underneath the housing and are easily accessible on field
- Integrated sensor receptacle makes for easy plug-and-play installation of smart and non-smart sensors. No wiring required. Sensors are sold separately, see accessories table

- 1 meter of power cable to better facilitate the installation included in all configurations

Lens/Optics

- A frosted polycarbonate lens in a nema 7Hx7V distribution is standard for this series. Area lights optics are available as an accessory: II, III, IV and V.

Mounting

- Quick and easy installation with the following mounting accessories available:
 - Yoke
 - Trunnion
 - Slipfitter (Ø 2.59")
 - Square/Round pole arm
 - Slipfitter with wall/pole mount adapter

PERFORMANCE DATA

- Available in a 2 200 K color temperature and in 3 000/ 4 000/5 000 K selectable color temperature
- 80+ CRI
- Electrical ratings: 120-347 V
- Estimated life of over 100 000 hours to L70
- 0-10 V dimming driver Dimming cables included with this luminaire
- 6kV surge protection (standard).
- Operating temperature: -40 °C to 50 °C (-40 °F to 122 °F)
- 10kV surge protection

COMPLIANCE

- cULus listed for wet location
- Meets requirements of ICES-005 issue 5 class A for use in commercial applications
- IK08
- IP65
- BC Hydro
- 3G vibration resistant in compliance with ANSI/IEEE C136.31 standard for luminaire vibration
- DLC Premium
- Dark Sky

OVERVIEW			
LIGHT SOURCE	LED	EFFICIENCY (LM/W)	122 - 164
WATTS [W]	60/100/150 160/200/240/300 350/400/450	COLOR TEMPERATURE [K]	2 200 3CCT (3 000/4 000/5 000)
LUMEN OUTPUT [LM]	8 017 - 62 598	CRI	80+

¹ CCT selectable available on certain models. Consult Quick ship table for more details.

² Applicable to 2 200K color temperature models coming with a straight pole arm mount.

Not all products are qualified on the DLC QPL. To view our DLC qualified products, please consult the DLC Qualified Products List at www.designlights.org/search.

Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions.

All products are subject to change or may be discontinued any time without notice.

QUICK SHIP ORDERING GUIDE



MODEL NUMBER	DLC UNIQUE ID	WATTS [W]	VOLTS [VAC]	COLOR TEMP. [K] ¹	LUMEN OUTPUT [LM] ^{2,3}	EFFI- CIENCY [LM/W]	CRI	LIFE L70 [HRS] ⁴	TESTED HOURS LM-80 [HRS] ⁴	CALCU- LATED TM21 [HRS] ⁴	NEMA TYPE ⁶	B.U.G.	LED CUR- RENT [MA]	FINISH	POWER FACTOR	THD [%]	TRADITIONAL EQUIV- ALENT [W]		MAS- TER CASE QTY
CCT AND POWER SELECT																			
FSBS-PS150W-323CBR	S-C8WRVX	60/100/150	120-347	3 000/ 4 000/ 5 000	22 137	148	80+	100 000	10 000	>60 000	7H X 7V	B4-U0-G1	54.5	BRONZE	≥0.9	≤20	400 - 1 000	400	1
FSBM-PS300W-323CBR	S-Y4MMYR	160/200/240/300	120-347	3 000/ 4 000/ 5 000	43 965	147	80+	100 000	10 000	>60 000	7H X 7V	B5-U0-G2	54.5	BRONZE	≥0.9	≤20	400 - 1 000	1 000	1
FSBL-PS450W-323CBR	S-BC02C5	350/400/450	120-347	3 000/ 4 000/ 5 000	62 645	139	80+	100 000	10 000	>60 000	7H X 7V	B5-U0-G2	54.5	BRONZE	≥0.9	≤20	1 000	1 000	1
FSBS-PS150W-323CBK	S-C8WRVX	60/100/150	120-347	3 000/ 4 000/ 5 000	22 137	148	80+	100 000	10 000	>60 000	7H X 7V	B4-U0-G1	54.5	BLACK	≥0.9	≤20	400 - 1 000	400	1
FSBM-PS300W-323CBK	S-Y4MMYR	160/200/240/300	120-347	3 000/ 4 000/ 5 000	43 965	147	80+	100 000	10 000	>60 000	7H X 7V	B5-U0-G2	54.5	BLACK	≥0.9	≤20	400 - 1 000	1 000	1
FSBL-PS450W-323CBK	S-BC02C5	350/400/450	120-347	3 000/ 4 000/ 5 000	62 645	139	80+	100 000	10 000	>60 000	7H X 7V	B5-U0-G2	54.5	BLACK	≥0.9	≤20	1 000	1 000	1
SINGLE CCT AND POWER SELECT																			
FSBS-PS150W3222KBR	N/A	60/100/150	120-347	2 200	17 702	123	80+	100 000	10 000	>60 000	7H X 7V	B4-U0-G1	54.5	BRONZE	≥0.9	≤20	400 - 1 000	250 - 400	1
FSBM-PS300W3222KBR	N/A	160/200/240/300	120-347	2 200	36 372	122	80+	100 000	10 000	>60 000	7H X 7V	B5-U0-G2	54.5	BRONZE	≥0.9	≤20	400 - 1 000	400 - 1 000	1

¹ Typical color temperature range: +/- 5 %.

² Lumen values are derived from photometric testing. Initial lumens range: +/- 10 %.

³ Lumen values are based on 4 000 K default programming for CCT selectable models. Please refer to the LUMEN SPECIFICATION TABLE for more details on other color temperatures.

⁴ Life hours are derived from IESNA LM-80 testing report and projected per IESNA TM-21 extrapolations.

⁵ Type II, III, IV and V distributions available. Refer to accessory table.

CCT AND POWER SELECTABLE TECHNICAL SPECIFICATION TABLE



MODEL NUMBERS	WATTS [W]	NEMA TYPE	3 000 K		TRADITIONAL EQUIVALENT (W)		4 000 K		TRADITIONAL EQUIVALENT (W)		5 000 K		TRADITIONAL EQUIVALENT (W)	
			LUMEN OUTPUT [LM]	EFFICIENCY [LM/W]	MH	HPS	LUMEN OUTPUT [LM]	EFFICIENCY [LM/W]	MH	HPS	LUMEN OUTPUT [LM]	EFFICIENCY [LM/W]	MH	HPS
FSBS-PS150W-323CBR	60	7H X 7V	8 814	147	175-250	150-175	9 355	156	250	175	9 200	153	175-250	150-175
FSBS-PS150W-323CBK	100		14 480	145	250-400	250-400	15 801	158	400-750	250-400	15 441	154	400	250-400
	150		19 750	132	400-750	250-400	22 137	148	400-750	400-1 000	21 065	140	750-1 000	400
FSBM-PS300W-323CBR	160	7H X 7V	24 047	150	750-1 000	400-1 000	26 182	164	750-1 000	400-1 000	25 918	162	750-1 000	400-1 000
FSBM-PS300W-323CBK	200		28 950	145	750-1 000	400-1 000	31 848	159	750-1 000	400-1 000	31 140	156	750-1 000	400-1 000
	240		32 848	137	750-1 000	400-1 000	36 562	152	750-1 000	750-1 000	35 338	147	750-1 000	400-1 000
	300		38 639	129	750-1 000	1 000	43 965	147	750-1 000	1 000	41 797	139	750-1 000	1 000
FSBL-PS450W-323CBR	350	7H X 7V	45 589	130	750-1 000	1 000	50 140	143	1 000	1 000	48 900	140	1 000	1 000
FSBL-PS450W-323CBK	400		49 065	123	1 000	1 000	54 217	136	1 000	1 000	52 254	131	1 000	1 000
	450		56 253	125	1 000	1 000	62 645	139	1 000	1 000	59 665	133	1 000	1 000

DEFAULT PROGRAMMING

FSBS-PS150W-323CBR / FSBS-PS150W-323CBK: 150 W / 4 000 K

FSBM-PS300W-323CBR / FSBM-PS300W-323CBK: 300 W / 4 000 K

FSBL-PS450W-323CBR / FSBL-PS450W-323CBK: 450 W / 4 000 K

SINGLE CCT AND POWER SELECTABLE TECHNICAL SPECIFICATION TABLE



MODEL NUMBERS	WATTS [W]	NEMA TYPE	2 200 K		TRADITIONAL EQUIVALENT (W)	
			LUMEN OUTPUT [LM]	EFFICIENCY [LM/W]	MH	HPS
FSBS-PS150W3222KBR	60	7H X 7V	8 017	135	175-250	150-175
	100		12 980	131	250-400	250-400
	150		17 702	123	400-750	250-400
FSBM-PS300W3222KBR	160	7H X 7V	22 556	136	750-1 000	400-1 000
	200		27 112	132	750-1 000	400-1 000
	240		31 011	128	750-1 000	400-1 000
	300		36 372	122	750-1 000	400-1 000

DEFAULT PROGRAMMING

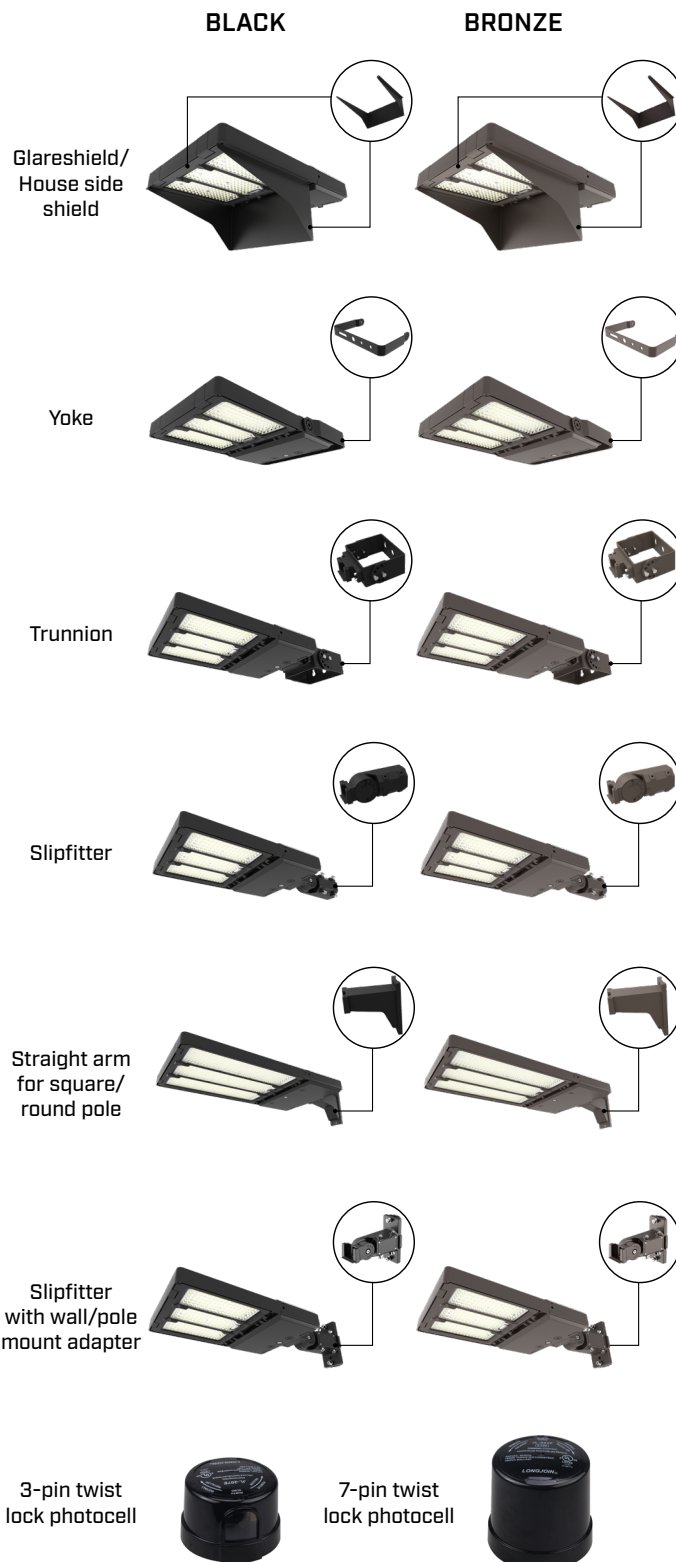
FSBS-PS150W3222KBR: 150 W

FSBM-PS300W3222KBR: 300 W

ACCESSORIES (ORDER SEPARATELY)

MODEL NUMBER	TYPE	FINISH	COMPATIBLE WITH
GS012-S-BR	GLARESHIELD (GS) / HOUSE SIDE SHIELD (HSS) FOR 150 W MODELS	BRONZE	FSBS-PS150W-323C8R FSBS-PS150W3222K8R
GS012-M-BR	GLARESHIELD (GS) / HOUSE SIDE SHIELD (HSS) FOR 300 W MODELS	BRONZE	FSBM-PS300W-323C8R FSBM-PS300W3222K8R
GS012-L-BR	GLARESHIELD (GS) / HOUSE SIDE SHIELD (HSS) FOR 450 W MODELS	BRONZE	FSBL-PS450W-323C8R
CAS1013-YOKE-S-BR	YOKE MOUNT FOR 150 W MODELS	BRONZE	FSBS-PS150W-323C8R FSBS-PS150W3222K8R
CAS1013-YOKE-M-BR	YOKE MOUNT FOR 300 W MODELS	BRONZE	FSBM-PS300W-323C8R FSBM-PS300W3222K8R
CAS1013-YOKE-L-BR	YOKE MOUNT FOR 450 W MODELS	BRONZE	FSBL-PS450W-323C8R
CAS1013-TRUNNIONBR	TRUNNION	BRONZE	FSBS-PS150W-323C8R FSBM-PS300W-323C8R FSBL-PS450W-323C8R FSBS-PS150W3222K8R FSBM-PS300W3222K8R
CAS1013-SFITTERSBR	SLIPFITTER FOR 150W AND 300 W MODELS	BRONZE	FSBS-PS150W-323C8R FSBM-PS300W-323C8R FSBS-PS150W3222K8R FSBM-PS300W3222K8R
CAS1013-SFITTERLBR	SLIPFITTER FOR 450 W MODELS	BRONZE	FSBL-PS450W-323C8R
CAS1013-RNDSQPBR	STRAIGHT ARM FOR SQUARE/ROUND POLE	BRONZE	FSBS-PS150W-323C8R FSBM-PS300W-323C8R FSBL-PS450W-323C8R FSBS-PS150W3222K8R FSBM-PS300W3222K8R
KITCAS1013-SWADSBR	SLIPFITTER WITH WALL/POLE MOUNT ADAPTER FOR 150 W AND 300 W MODELS	BRONZE	FSBS-PS150W-323C8R FSBM-PS300W-323C8R FSBS-PS150W3222K8R FSBM-PS300W3222K8R
KITCAS1013-SWADLBR	SLIPFITTER WITH WALL/POLE MOUNT ADAPTER FOR 450 W MODELS	BRONZE	FSBL-PS450W-323C8R
GS012-S-BK	GLARESHIELD (GS) / HOUSE SIDE SHIELD (HSS) FOR 150 W MODELS	BLACK	FSBS-PS150W-323CBK
GS012-M-BK	GLARESHIELD (GS) / HOUSE SIDE SHIELD (HSS) FOR 300 W MODELS	BLACK	FSBM-PS300W-323CBK
GS012-L-BK	GLARESHIELD (GS) / HOUSE SIDE SHIELD (HSS) FOR 450 W MODELS	BLACK	FSBL-PS450W-323CBK
CAS1013-YOKE-S-BK	YOKE MOUNT FOR 150 W MODELS	BLACK	FSBS-PS150W-323CBK
CAS1013-YOKE-M-BK	YOKE MOUNT FOR 300 W MODELS	BLACK	FSBM-PS300W-323CBK
CAS1013-YOKE-L-BK	YOKE MOUNT FOR 450 W MODELS	BLACK	FSBL-PS450W-323CBK
CAS1013-TRUNNIONBK	TRUNNION	BLACK	FSBS-PS150W-323CBK FSBM-PS300W-323CBK FSBL-PS450W-323CBK
CAS1013-SFITTERSBK	SLIPFITTER FOR 150W AND 300 W MODELS	BLACK	FSBS-PS150W-323CBK FSBM-PS300W-323CBK
CAS1013-SFITTERLBK	SLIPFITTER FOR 450 W MODELS	BLACK	FSBL-PS450W-323CBK
CAS1013-RNDSQPBK	STRAIGHT ARM FOR SQUARE/ROUND POLE	BLACK	FSBS-PS150W-323CBK FSBM-PS300W-323CBK FSBL-PS450W-323CBK
KITCAS1013-SWADSBK	SLIPFITTER WITH WALL/POLE MOUNT ADAPTER FOR 150 W AND 300 W MODELS	BLACK	FSBS-PS150W-323CBK FSBM-PS300W-323CBK
KITCAS1013-SWADLBK	SLIPFITTER WITH WALL/POLE MOUNT ADAPTER FOR 450 W MODELS	BLACK	FSBL-PS450W-323CBK
LEN412-S-T2	TYPE II DISTRIBUTION LENS FOR 150 W MODELS	N/A	FSBS-PS150W-323CBK FSBS-PS150W-323C8R FSBS-PS150W3222K8R
LEN412-S-T3	TYPE III DISTRIBUTION LENS FOR 150 W MODELS	N/A	FSBS-PS150W-323CBK FSBS-PS150W-323C8R FSBS-PS150W3222K8R
LEN412-S-T4	TYPE IV DISTRIBUTION LENS FOR 150 W MODELS	N/A	FSBS-PS150W-323CBK FSBS-PS150W-323C8R FSBS-PS150W3222K8R
LEN412-S-T5	TYPE V DISTRIBUTION LENS FOR 150 W MODELS	N/A	FSBS-PS150W-323CBK FSBS-PS150W-323C8R FSBS-PS150W3222K8R
LEN412-M-T2	TYPE II DISTRIBUTION LENS FOR 300 W MODELS	N/A	FSBM-PS300W-323CBK FSBM-PS300W-323C8R FSBM-PS300W3222K8R
LEN412-M-T3	TYPE III DISTRIBUTION LENS FOR 300 W MODELS	N/A	FSBM-PS300W-323CBK FSBM-PS300W-323C8R FSBM-PS300W3222K8R
LEN412-M-T4	TYPE IV DISTRIBUTION LENS FOR 300 W MODELS	N/A	FSBM-PS300W-323CBK FSBM-PS300W-323C8R FSBM-PS300W3222K8R
LEN412-M-T5	TYPE V DISTRIBUTION LENS FOR 300 W MODELS	N/A	FSBM-PS300W-323CBK FSBM-PS300W-323C8R FSBM-PS300W3222K8R
LEN412-L-T2	TYPE II DISTRIBUTION LENS FOR 450 W MODELS	N/A	FSBL-PS450W-323CBK FSBL-PS450W-323C8R
LEN412-L-T3	TYPE III DISTRIBUTION LENS FOR 450 W MODELS	N/A	FSBL-PS450W-323CBK FSBL-PS450W-323C8R
LEN412-L-T4	TYPE IV DISTRIBUTION LENS FOR 450 W MODELS	N/A	FSBL-PS450W-323CBK FSBL-PS450W-323C8R
LEN412-L-T5	TYPE V DISTRIBUTION LENS FOR 450 W MODELS	N/A	FSBL-PS450W-323CBK FSBL-PS450W-323C8R
OSI-EFS07-AUX ¹	EXTERNAL PIR SENSOR KIT OSI-EFS07-AUX	N/A	ALL CONFIGURATIONS
OSI-EFS08R ¹	EXTERNAL HIGH FREQUENCY SENSOR KIT EFS08R	N/A	ALL CONFIGURATIONS
PH0033	3-PIN TWIST LOCK PHOTOCELL	BLACK	ALL CONFIGURATIONS
PH0034	7-PIN TWIST LOCK PHOTOCELL	BLACK	ALL CONFIGURATIONS

¹ To change factory setting, purchase remote OSI-RM51 (sold separately)



COMPATIBLE DIMMERS¹

BRAND	MODEL
LUTRON	NTSTV-DV, NFTV, DVTV,WH
LEVITON	DS710, IP710
LEGRAND	H4FBL3PW

DIMMING RANGE: 0%-100%

¹ This table shows dimmers that have been tested and have demonstrated proper operation under normal conditions. Each installation being unique, various factors such as load, common neutrals or other electrical products on the circuit can, in certain instances, cause variance in system performance. Read and comply to the dimmer installation instructions. Consult dimming system manufacturer for additional support in operation. Some dimmers may require more than one product for stable operation. AimLite recommends to use dimmers designed to work with LED products. Older dimmers designed for incandescent products may cause erratic operation.

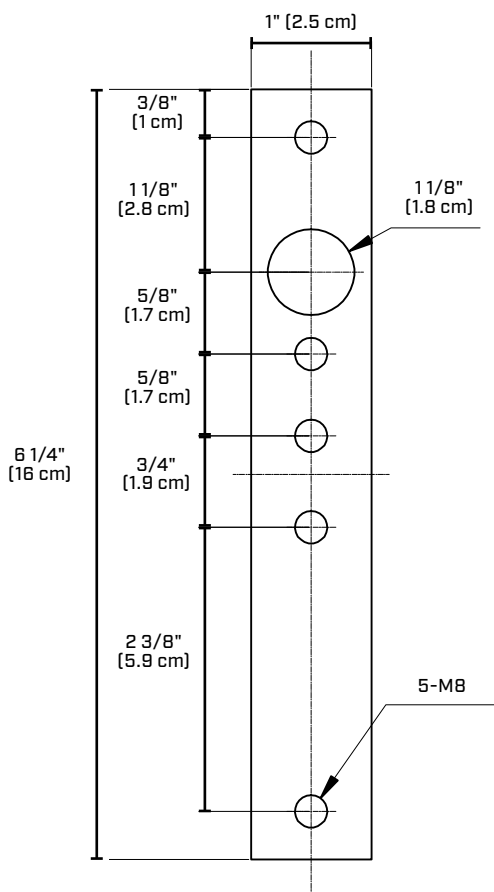
EPA

						
MOUNTING TYPE	CONFIGURATION	SINGLE	2 @ 180°	2 @ 90°	3 @ 90°	4 @ 90°
SLIPFITTER ¹	150 W	1.25	2.51	1.59	2.51	2.52
	300 W	1.49	2.99	1.99	2.99	2.99
	450 W	1.85	3.7	2.35	3.7	3.7
SQUARE/ ROUND POLE ARM	150 W	0.54	1.09	0.69	1.09	1.09
	300 W	0.61	1.22	0.82	1.22	1.22
	450 W	0.74	1.49	0.89	1.49	1.49

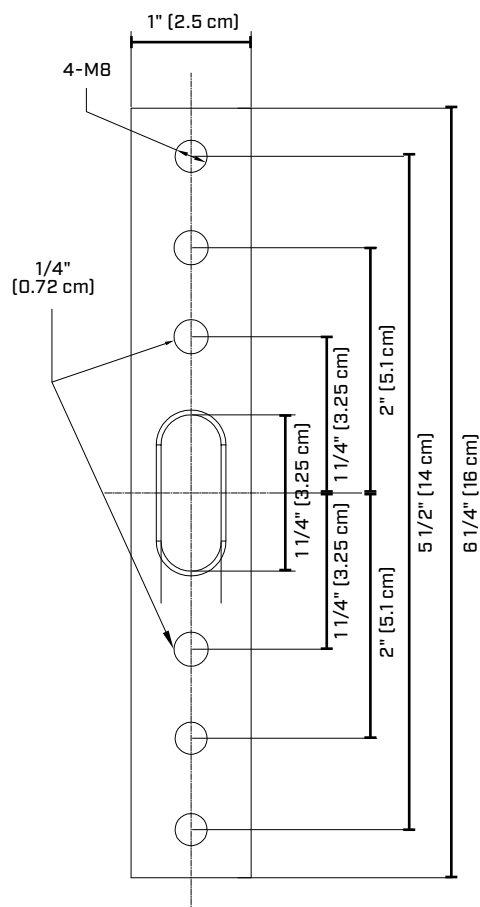
¹Based on 60° tilt.

DRILLING PATTERNS

Straight arm for square/round pole

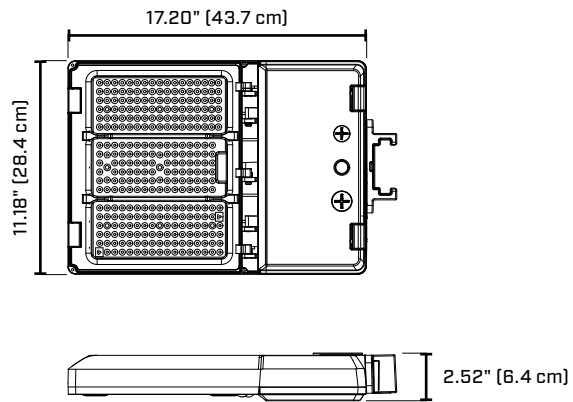


Slipfitter and wall/pole mount adapter

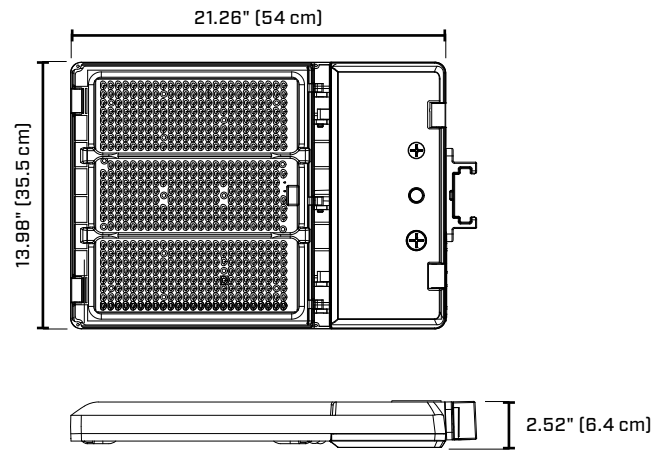


DIMENSIONS AND WEIGHTS

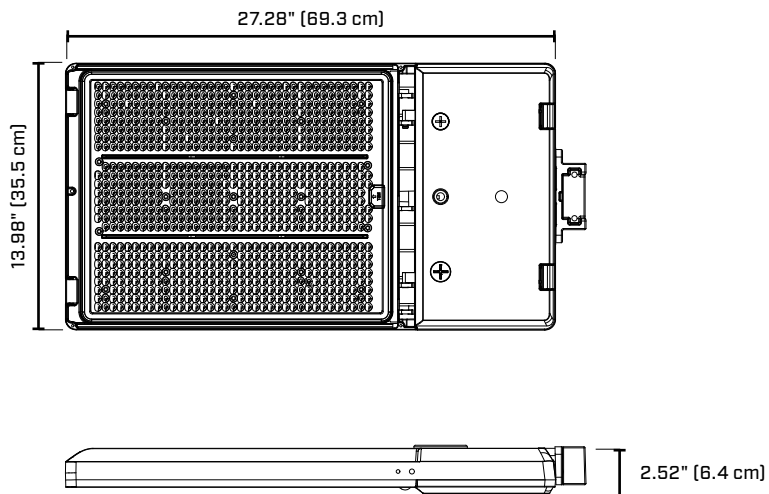
150 W



300 W



450 W



	150 W	300 W	450 W
Net weight lbs]	9.17	11.63	15.88

OCCUPANCY SENSORS

BI-LEVEL SENSORS

Detection - On at [Detection Area] % during [Hold Time] min., then [Stand-by Dim level] %

PART NUMBER	POSITION	VOLT [V]	TECH-NOLOGY	HEIGHT [FT]	DETECTION AREA [%]	INITIAL BRIGHTNESS [%]	SENSIVITY [%]	HOLD TIME [MIN]	STAND-BY DIM LEVEL [%]	STAND-BY PERIOD [MIN]	REMOTE ¹	LOCATION [°C]
OSI-EFS06R	External	120-347 [12 V DC]	High Frequency	40 [max]	100	50, 75, 100	0 [Off], 50 [Low], 100 [High]	30s, 5min, 15min, 30min	0, 10, 30, 50	infinite	OSI-RM51	Dry and Wet, -30 to +40
OSI-EFS07-AUX	External	120-347 [12 V DC]	PIR	20-40	100	50, 75, 100	0 [Off], 50 [Low], 100 [High]	30s, 5min, 15min, 30min	0, 10, 30, 50	Infinite	OSI-RM51	Dry and Damp, -30 to +40

Default settings: Brightness: 100%, hold time: 5min, stand-by dim: 50%, stand-by time: 30min, photocell: off, sensitivity: 100%

TRI-LEVEL SENSORS

Detection - On at [Detection Area] % during [Hold Time] min., then [Stand-by Dim level] % during [Stand-by time] min, then OFF

PART NUMBER	POSITION	VOLT [V]	TECH-NOLOGY	HEIGHT [FT]	DETECTION AREA [%]	INITIAL BRIGHTNESS [%]	SENSIVITY [%]	HOLD TIME [MIN]	STAND-BY DIM LEVEL [%]	STAND-BY PERIOD [MIN]	REMOTE ¹	LOCATION [°C]
OSI-EFS07-AUX	External	120-347 [12 V DC]	PIR	20-40	100	50, 75, 100	0 [Off], 50 [Low], 100 [High]	30s, 5min, 15min, 30min	0, 10, 30, 50	Infinite	OSI-RM51	Dry and Damp, -30 to +40

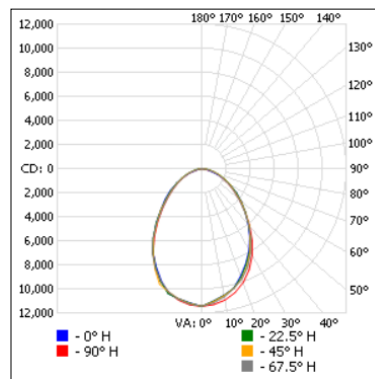
Default settings: Brightness: 100%, hold time: 5min, stand-by dim: 50%, stand-by time: 30min, photocell: off, sensitivity: 100%

¹ To be ordered separately.

PHOTOMETRIC DATA¹

FSBS-PS150W-323CXX • 150 W • 4 000 K • 22 137 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

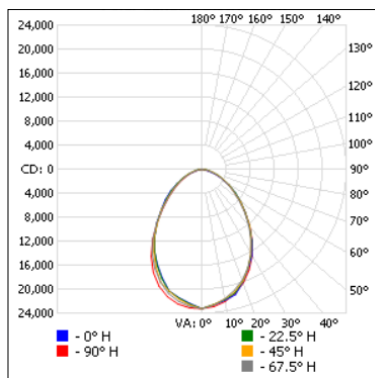
ZONE	LUMENS	% FIXTURE
0-30	8 102.3	36.6
0-40	12 462.3	56.3
0-60	19 126.5	86.4
60-90	3 008.6	13.6
70-100	1 132.9	5.1
90-120	1.9	0
0-90	22 135.1	100
90-180	1.9	0
0-180	22 137.0	100

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM WIDTH	
17'	39.6		29.7'	29.5'
34'	9.90		59.4'	59.1'
51'	4.40		89.2'	88.6'
68'	2.47		118.9'	118.2'
85'	1.58		148.6'	147.7'
102'	1.10		178.3'	177.2'
■ Vert. Spread: 82.3° ■ Hor. Spread: 82.0°				

FSBM-PS300W-323CXX • 300 W • 4 000 K • 43 965 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

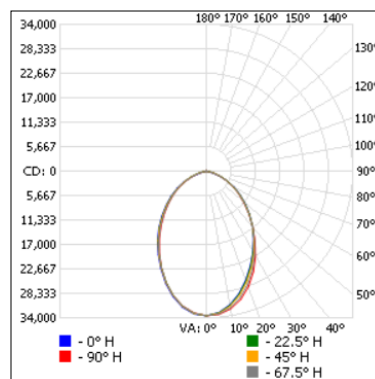
ZONE	LUMENS	% FIXTURE
0-30	16 482.5	37.5
0-40	25 325.5	57.6
0-60	38 469.4	87.5
60-90	5 491.8	12.5
70-100	1 984.3	4.5
90-120	3.4	0
0-90	43 961.2	100
90-180	3.4	0
0-180	43 964.6	100

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM WIDTH	
17'	80.4		29.3'	29.3'
34'	20.1		58.6'	58.7'
51'	8.94		87.9'	88.0'
68'	5.03		117.2'	117.4'
85'	3.22		146.6'	146.7'
102'	2.23		175.9'	176.1'
■ Vert. Spread: 81.5° ■ Hor. Spread: 81.6°				

FSBL-PS450W-323CXX • 450 W • 4 000 K • 62 645 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	22 968.7	36.7
0-40	35 135.6	56.1
0-60	54 572.0	87.1
60-90	7 875.2	12.6
70-100	2 556.7	4.1
90-120	35.3	0.1
0-90	62 447.2	99.7
90-180	197.7	0.3
0-180	62 644.9	100

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM WIDTH	
17'	116		28.8'	28.1'
34'	29.0		57.7'	56.3'
51'	12.9		86.5'	84.4'
68'	7.24		115.3'	112.6'
85'	4.64		144.1'	140.7'
102'	3.22		173.0'	168.9'
■ Vert. Spread: 80.6° ■ Hor. Spread: 79.2°				

¹ Complete IES files available on our website.