

F12

LED FLOOD LIGHT GEN 2

QUICK AND EASY MOUNTING ACCESSORIES
 (SOLD SEPARATELY)

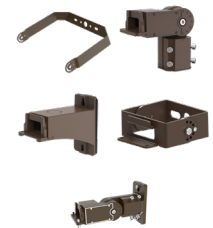
SELECTABLE COLOR TEMPERATURE (3 000/4 000/5 000 K)¹
 POWER SELECTABLE¹

This versatile family of highly efficient and powerful LED flood lights features a wide range of lumen packages, external selectable power switches on certain configurations and multiple color temperature options as well as various mounting options. Finished in bronze, with its modern design, each luminaire is compatible with various universal mountings which allow for wall, ground and pole mount. Typical applications include general lighting of grounds, storage yards, car dealerships, parking areas as well as flood lighting of signs and building facades.



FLOOD LUMINAIRES
Single Power and Single CCT

FLOOD LUMINAIRES
Power and CCT Selectable



FLOOD/AREA LIGHT
MOUNTING ACCESSORIES
[Sold separately²]

FEATURES & SPECIFICATIONS

CONSTRUCTION

Housing

- This luminaire is made of aluminum die-cast housing
- Standard powder coat finish color is textured bronze
- Aluminum heat sink for a better heat dissipation
- 3.5' cable standard in all configurations

Lens

- Outfitted with a clear polycarbonate lens that is UV resistant
- Offered in a NEMA 7Hx6V or 7Hx7V depending of the power of the configuration

Mounting

Universal mounting system allowing the following mountings to be easily installed:

- Yoke
- Trunnion
- Slipfitter
- Square or round pole arm [4", 5" & 6"]
- Slipfitter with wall mount adapter

TECHNICAL SPECIFICATIONS

- Drivers 120-277 V and 347-480 V
- 0-10 V dimming standard
- 10 kV surge protection standard
- Color temperatures:
3 000 K/4 000 K/5 000 K, 4 000 K and 5 000 K
- Estimated lifespan of 60 000 hours to L70
- Ambient temperature:
-40 to 40 °C

COMPLIANCES

- IP65
- Wet location
- IK08
- Meets requirements of ICES-005 issue 5 for class B products
- cULus

OVERVIEW			
LIGHT SOURCE	LED	EFFICACY (LM/W)	125 - 149
WATTS (W)	100, 150, 230, 300, 400 50/80/100/150	CRI	70
LUMEN OUTPUT (LM)	6 800 - 58 148	COLOR TEMPERATURE (K)	3 000/4 000/5 000 4 000, 5 000

¹ Selectable color temperature and power selectable are available on some configurations. Consult the Quick ship and technical specification table for more details.

² See below for part numbers.

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



PART NO	DLC UNIQUE ID	WATTS (W)	VOLTS (V)	COLOR TEMP. (K)	LUMEN OUTPUT (LM)	EFFI- CIENCY (LM/W)	CRI	DISTRIBU- TION TYPE	FINISH	DIM- MING (YES/ NO)	B.U.G	EPA (FT²)	LIFE L70 (HRS)	LED CURRENT (MA)	PF	THD (%)	TRADITIONAL EQUIVALENT (W)		CASE QTY (MAS- TER)
																	MH	HPS	
SINGLE POWER AND SINGLE CCT																			
F12S-L1AM-10-4K-BR	PLATA1ARUY3Y	102	347-480	4 000	13 753	135	70	7HX6V	BRONZE	YES	B3-U0-G2	0.53	>60 000	0.5	0.907	12.82	250-400	250-400	1
F12S-L2AM-2-4K-BR	PL9P3GXOR6U7	151	120-277	4 000	21 316	141	70	7HX6V	BRONZE	YES	B4-U0-G3	0.53	>60 000	1.412-0.601	0.995	5.14	400-1 000	400-1 000	1
F12M-L3AM-10-4K-BR	PLSPNQHM7VDV	230	347-480	4 000	31 954	139	70	7HX7V	BRONZE	YES	B5-U0-G3	0.58	>60 000	1.8	0.922	12.53	400-1 000	400-1 000	1
F12L-L4AM-10-4K-BR	PLW06KIW6EN	283	347-480	4 000	40 569	144	70	7HX6V	BRONZE	YES	B5-U0-G3	0.63	>60 000	1.5	0.905	16.26	400-1 000	1 000	1
F12X-L5AM-10-4K-BR	PL9UY9BV7UH1	400	347-480	4 000	57 654	144	70	7HX7V	BRONZE	YES	B5-U0-G4	0.71	>60 000	2.09	0.955	7.56	1 000	1 000	1
F12S-L1AM-2-5K-BR	PLMDY3UE1IPB	100	120-277	5 000	13 255	133	70	7HX6V	BRONZE	YES	B3-U0-G2	0.53	>60 000	0.87-0.38	0.997	5.34	250-400	250-400	1
F12S-L1AM-10-5K-BR	PLWKEG4M5L53	102	347-480	5 000	13 889	136	70	7HX6V	BRONZE	YES	B3-U0-G2	0.53	>60 000	0.5	0.907	12.82	250-400	250-400	1
F12S-L2AM-2-5K-BR	PLRRU26SJ11L	151	120-277	5 000	21 518	142	70	7HX6V	BRONZE	YES	B4-U0-G3	0.53	>60 000	1.412-0.601	0.995	5.14	400-1 000	400-1 000	1
F12S-L2AM-10-5K-BR	PLIW78EWLTJJ	151	347-480	5 000	20 846	138	70	7HX6V	BRONZE	YES	B4-U0-G3	0.53	>60 000	0.8	0.934	10.49	400-1 000	400-1 000	1
F12M-L3AM-10-5K-BR	PLMB4TYDYA6B	230	347-480	5 000	32 239	140	70	7HX7V	BRONZE	YES	B5-U0-G3	0.58	>60 000	1.8	0.922	12.53	400-1 000	400-1 000	1
F12L-L4AM-10-5K-BR	PL501WQDXJK4	283	347-480	5 000	40 945	145	70	7HX6V	BRONZE	YES	B5-U0-G3	0.63	>60 000	1.5	0.905	16.26	400-1 000	1 000	1
F12X-L5AM-10-5K-BR	PLZ9NEGWW4JY	400	347-480	5 000	58 148	145	70	7HX7V	BRONZE	YES	B5-U0-G4	0.71	>60 000	2.09	0.955	7.56	1 000	1 000	1
POWER AND CCT SELECTABLE																			
F12M-PS150M-2-3CBBR	PLWM8G06WHS2	50/ 80/ 100/ 150	120-277	3 000/ 4 000/ 5 000	6 950/ 11 200/ 13 500/ 18 900.1	125	70	7HX7V	BRONZE	YES	B4-U0-G1	0.53	>54 000	1.411-0.595	0.995	5.73	175-400	150-400	1

¹ Lumen values are based on 4 000 K default settings. Please refer to Technical Specification Table for more details on other color temperatures.

ORDERING GUIDE - SINGLE POWER AND SINGLE CCT

F12		—	L		M	—		—		—	BR	/	
SERIES	SIZE	LAMP TYPE	LUMEN PACKAGE [W]	DISTRIBU- TION TYPE	VOLTS [V]	COLOR TEMP. [K]	CASTING COLOR	OPTIONS					
F12	S - SMALL	L - LED	1A - 100	M - MEDIUM FLOOD	2 - 120-277 10 - 347-480	4K - 4 000 5K - 5 000	BR - BRONZE (STANDARD)	OSI - OCCUPANCY SENSOR PR - 3 PIN RECEPTACLE PR7 - 7 PIN RECEPTACLE					
	M - MEDIUM		2A - 150										
	L - LARGE		3A - 230										
	X - EXTRA LARGE		4A - 300										
			5A - 400										

ORDERING GUIDE - POWER AND CCT SELECTABLE

F12		—		M	— 2	— 3C	— BR	/	
SERIES		LUMEN PACKAGE [W]	DISTRIBU- TION TYPE	VOLTS [V]	COLOR TEMP. [K]	CASTING COLOR	OPTIONS		
F12	M - MEDIUM	PS150 - 50/80/ 100/150	M - MEDIUM FLOOD	2 - 120-277	3C - 3 000/ 4 000/ 5 000	BR - BRONZE (STANDARD)	OSI - OCCUPANCY SENSOR PR - 3 PIN RECEPTACLE PR7 - 7 PIN RECEPTACLE		

OCCUPANCY SENSORS

PART NUMBER	POSITION	VOLTS [V]	TECHNOLOGY	HEIGHT [M]	DETECTION AREA [%]	HOLD TIME [MIN]	STAND-BY DIM LEVEL [%]	DAYLIGHT MIN LEVEL	REMOTE PART NUMBER	LOCATION ² [°C]
OSI-MSE	INTERNAL	120-347	MICROWAVE	10 MAX	100%	15 MIN	50	DISABLE	OSI-TW-SCR004 ¹	-35 TO +60

¹ To be ordered separately.

² Verify fixture temperature for compatibility with sensor.

ACCESSORIES (ORDER SEPARATELY)

PART NO	DESCRIPTION	WEIGHT (LBS)
CAS979-YOKE-S-BR	BRONZE YOKE FOR F12S-F12M	1.65
CAS979-SWIVEL-BR	BRONZE SLIPFITTER	2.65
CAS979-PA6-RNDSQBR	BRONZE SQUARE/ROUND POLE ARM	1.76
CAS979-TRUNNION-BR	BRONZE TRUNNION	2.43
KITCAS979-SW-AD-BR	BRONZE SLIPFITTER AND WALL MOUNT ADAPTER	4.41
OSI-TW-SCRD04	OCCUPANCY SENSOR REMOTE FOR OSI-MSE	-

LUMEN SPECIFICATION TABLE

PART NO	NEMA TYPE	WATTS [W]	VOLTAGE [V]	4 000 K		5 000 K	
				LUMEN OUTPUT [LM]	EFFICACY [LM/W]	LUMEN OUTPUT [LM]	EFFICACY [LM/W]
SINGLE POWER AND CCT							
2A	5X5	150	120-277	20 250	140	21 240	147
			347-480	20 630	130	21 650	136
3A		230	120-277	33 410	138	35 050	145
			347-480	30 760	142	32 270	149
4A		300	120-277	39 550	136	41 490	143
			347-480	46 940	163	49 240	171
5A		400	120-277	60 500	151	63 470	158
			347-480	58 400	150	61 260	157

TECHNICAL SPECIFICATION TABLE - POWER AND CCT SELECTABLE

PART NO	WATTS [W]	VOLTS [V]	3 000 K		4 000 K		5 000 K		CRI	DISTRIBUTION TYPE
			LUMEN [LM]	EFFICACY [LM/W]	LUMEN [LM]	EFFICACY [LM/W]	LUMEN [LM]	EFFICACY [LM/W]		
F12M-PS150M-2-3CBR	50	120-277	6 800	136	6 950	139	7 510	150	70	7HX7V
	80	120-277	11 000	138	11 200	140	11 500	144	70	7HX7V
	100	120-277	13 200	132	13 500	135	14 000	140	70	7HX7V
	150	120-277	18 700	125	18 900	126	19 200	128	70	7HX7V

POWER AND CCT SELECTABLE SWITCHES

F12M-PS150M-2-3CBR

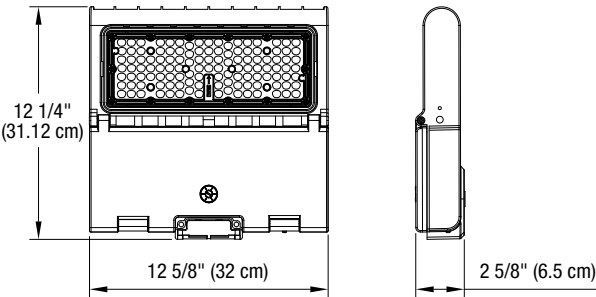


CCT SELECTABLE
3 000/4 000/5 000 K

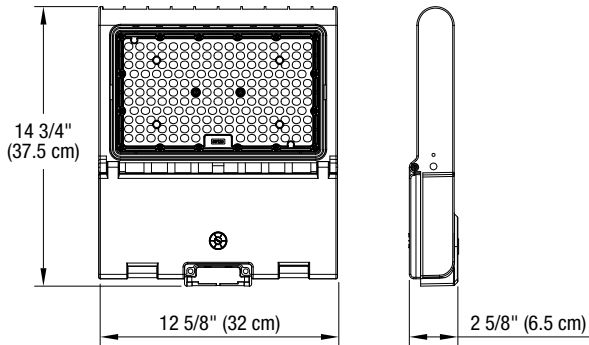
POWER SELECTABLE
50/80/100/150 W

DIMENSIONS

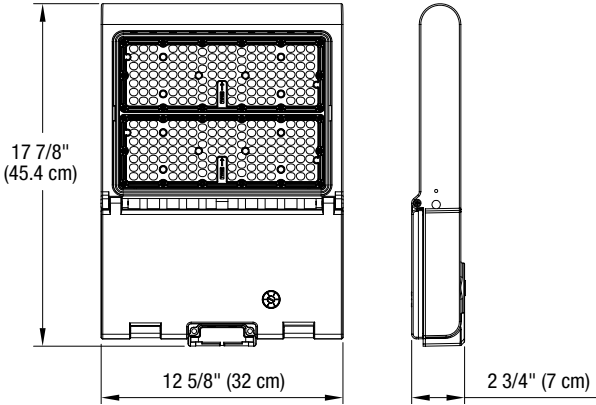
100-150 W



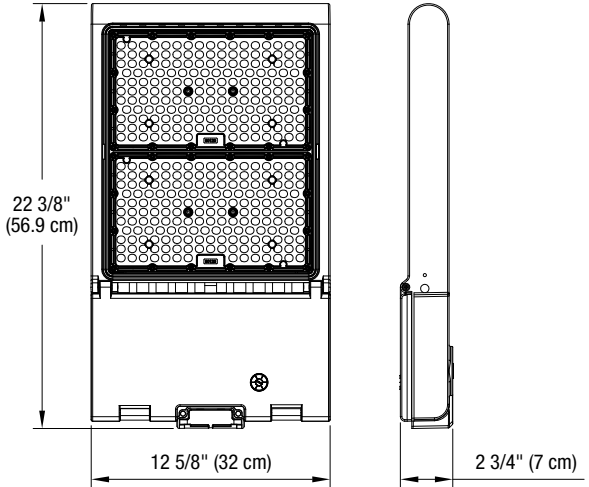
230 W



300 W



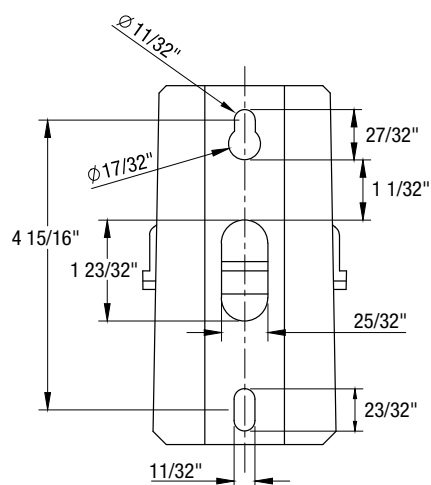
400 W



	100 W	150 W	230 W	300 W	400 W
WEIGHT (LBS)	8.82	9.26	11.24	15.21	18.30

DRILLING PATTERN

CAS979-PA6-RNDSQBR



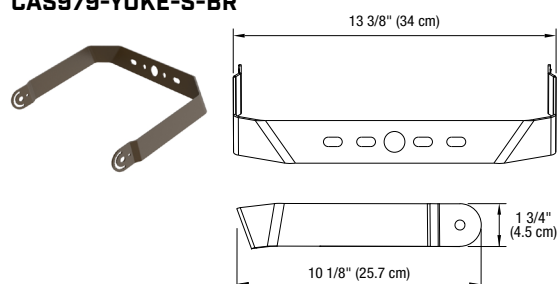
EPA

WATTS [W]					
100	1.36	2.15	2.51	3.15	3.57
150	1.36	2.15	2.51	3.15	3.57
230	1.58	2.49	2.88	3.65	4.1
300	1.86	2.92	3.37	4.25	4.81
400	2.27	3.47	4.07	5.14	5.81

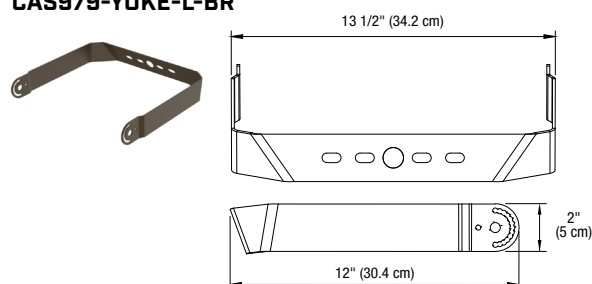
Based on 60° tilt with Slipfitter.

DIMENSIONS

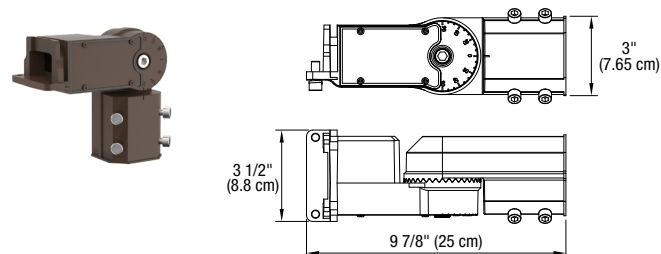
CAS979-YOKE-S-BR



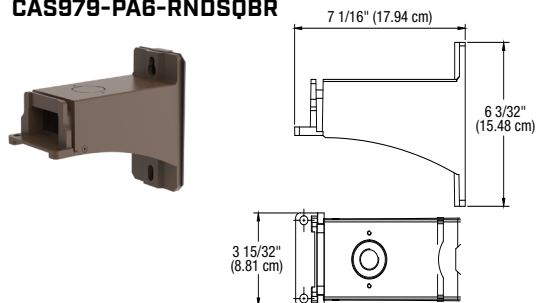
CAS979-YOKE-L-BR



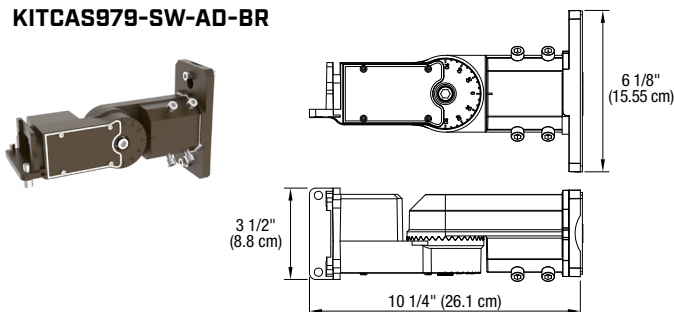
CAS979-SWIVEL-BR



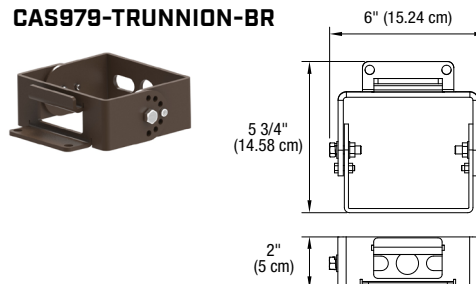
CAS979-PA6-RNDSQBR



KITCAS979-SW-AD-BR



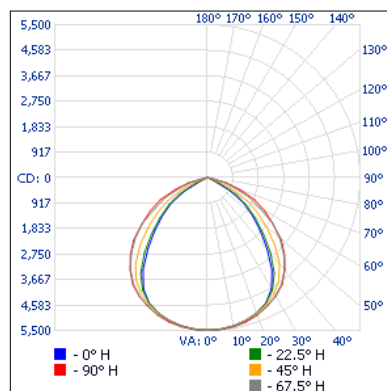
CAS979-TRUNNION-BR



PHOTOMETRIC DATA¹

F12S-L1AM-2-4K-BR • 13 106.6 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	4 340.8	33.1%
0-40	7 088.6	54.1%
0-60	11 683.8	89.1%
60-90	1 422.9	10.9%
70-100	350.6	2.7%
90-120	0	0%
0-90	13 106.6	100%
90-180	0	0%
0-180	13 106.6	100%

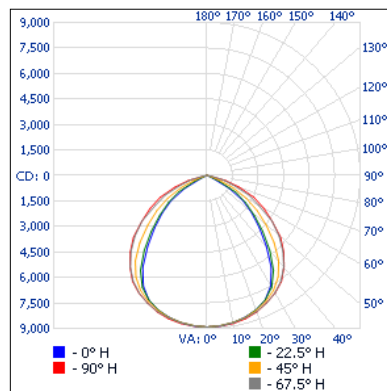
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
17'	19.0	33.5'	51.0'
34'	4.75	67.0'	102.0'
51'	2.11	100.4'	153.0'
68'	1.19	133.9'	204.0'
85'	0.76	167.4'	254.9'
102'	0.53	200.9'	305.9'

■ Vert. Spread: 89.1° ■ Hor. Spread: 112.6°

F12S-L2AM-2-4K-BR • 21 282.9 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	7 048.8	33.1%
0-40	11 510.7	54.1%
0-60	18 972.4	89.1%
60-90	2 310.5	10.9%
70-100	569.3	2.7%
90-120	0	0%
0-90	21 282.9	100%
90-180	0	0%
0-180	21 282.9	100%

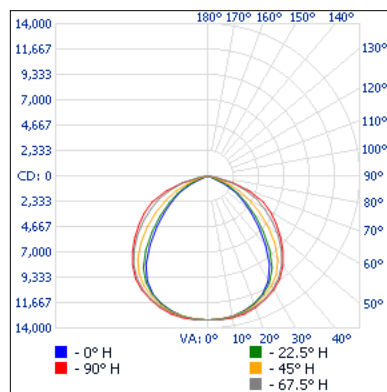
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
17'	30.8	33.5'	51.0'
34'	7.71	67.0'	102.0'
51'	3.43	100.4'	153.0'
68'	1.93	133.9'	204.0'
85'	1.23	167.4'	254.9'
102'	0.86	200.9'	305.9'

■ Vert. Spread: 89.1° ■ Hor. Spread: 112.6°

F12M-L3AM-2-4K-BR • 33 680.2 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	10 547.3	31.3%
0-40	17 301.9	51.4%
0-60	29 008.2	86.1%
60-90	4 672.0	13.9%
70-100	1 320.9	3.9%
90-120	0	0%
0-90	33 680.2	100%
90-180	0	0%
0-180	33 680.2	100%

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
17'	45.9	34.5'	59.8'
34'	11.5	69.0'	119.7'
51'	5.10	103.5'	179.5'
68'	2.87	138.0'	239.3'
85'	1.83	172.5'	299.2'
102'	1.27	207.0'	359.0'

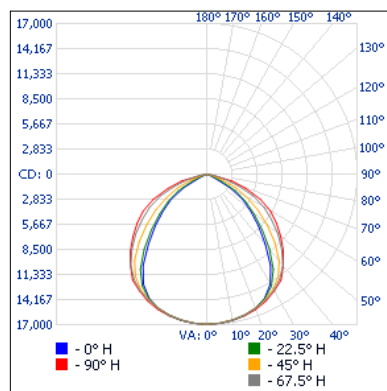
■ Vert. Spread: 90.8° ■ Hor. Spread: 120.8°

¹ Complete IES files available on our website.

PHOTOMETRIC DATA¹

F12L-L4AM-2-4K-BR • 41 646.9 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	13 429.8	32.2%
0-40	21 982.5	52.8%
0-60	36 445.3	87.5%
60-90	5 201.6	12.5%
70-100	1 453.8	3.5%
90-120	0	0%
0-90	41 646.9	100%
90-180	0	0%
0-180	41 646.9	100%

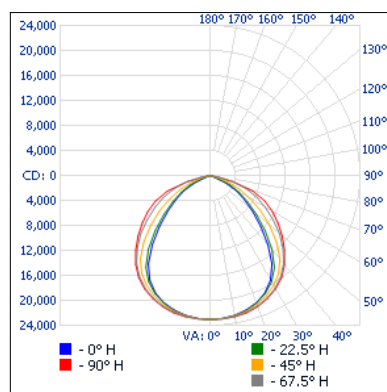
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
17'	58.6	33.4'	57.5'
34'	14.7	66.8'	114.9'
51'	6.51	100.2'	172.4'
68'	3.66	133.6'	229.9'
85'	2.34	167.0'	287.4'
102'	1.63	200.4'	344.8'

■ Vert. Spread: 89.0° ■ Hor. Spread: 118.8°

F12X-L5AM-2-4K-BR • 57 917.4 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	18 307.5	31.6%
0-40	30 011.4	51.8%
0-60	50 035.4	86.4%
60-90	7 882.0	13.6%
70-100	2 227.9	3.8%
90-120	0	0%
0-90	57 917.4	100%
90-180	0	0%
0-180	57 917.4	100%

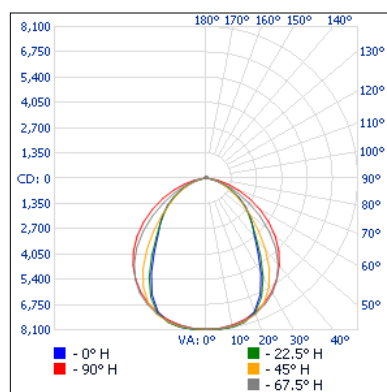
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
17'	79.8	33.8'	58.9'
34'	19.9	67.6'	117.8'
51'	8.86	101.4'	176.8'
68'	4.98	135.2'	235.7'
85'	3.19	169.0'	294.6'
102'	2.22	202.8'	353.5'

■ Vert. Spread: 89.7° ■ Hor. Spread: 120.0°

F12M-PS150M-2-3CBR • 18 869.2 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	6 297.7	33.4%
0-40	9 923.4	52.6%
0-60	15 837.6	83.9%
60-90	2 694.2	14.3%
70-100	1 025.0	5.4%
90-120	87.3	0.5%
0-90	18 531.9	98.2%
90-180	337.3	1.8%
0-180	18 869.2	100%

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
17'	27.9	28.4'	47.5'
34'	6.98	56.8'	95.1'
51'	3.10	85.2'	142.6'
68'	1.75	113.6'	190.1'
85'	1.12	142.1'	237.7'
102'	0.78	170.5'	285.2'

■ Vert. Spread: 79.8° ■ Hor. Spread: 108.9°

¹ Complete IES files available on our website.