

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: HALO

Report Number: P670578

Luminaire Tested: WXPM120LSFSUNVDBZ-70W-3000K

Issue Date: 4/4/2023

Test Information

Test Method: LM-79-2019
Report Number: P670578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (2022-08-17)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: WXPM120LSFSUNVDBZ-70W-3000K
Description: WALL PACK
Light Source:
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8727 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.94' x H: 0.45')
IES Classification: Type IV - Short
BUG Rating: B1 - U4 - G5

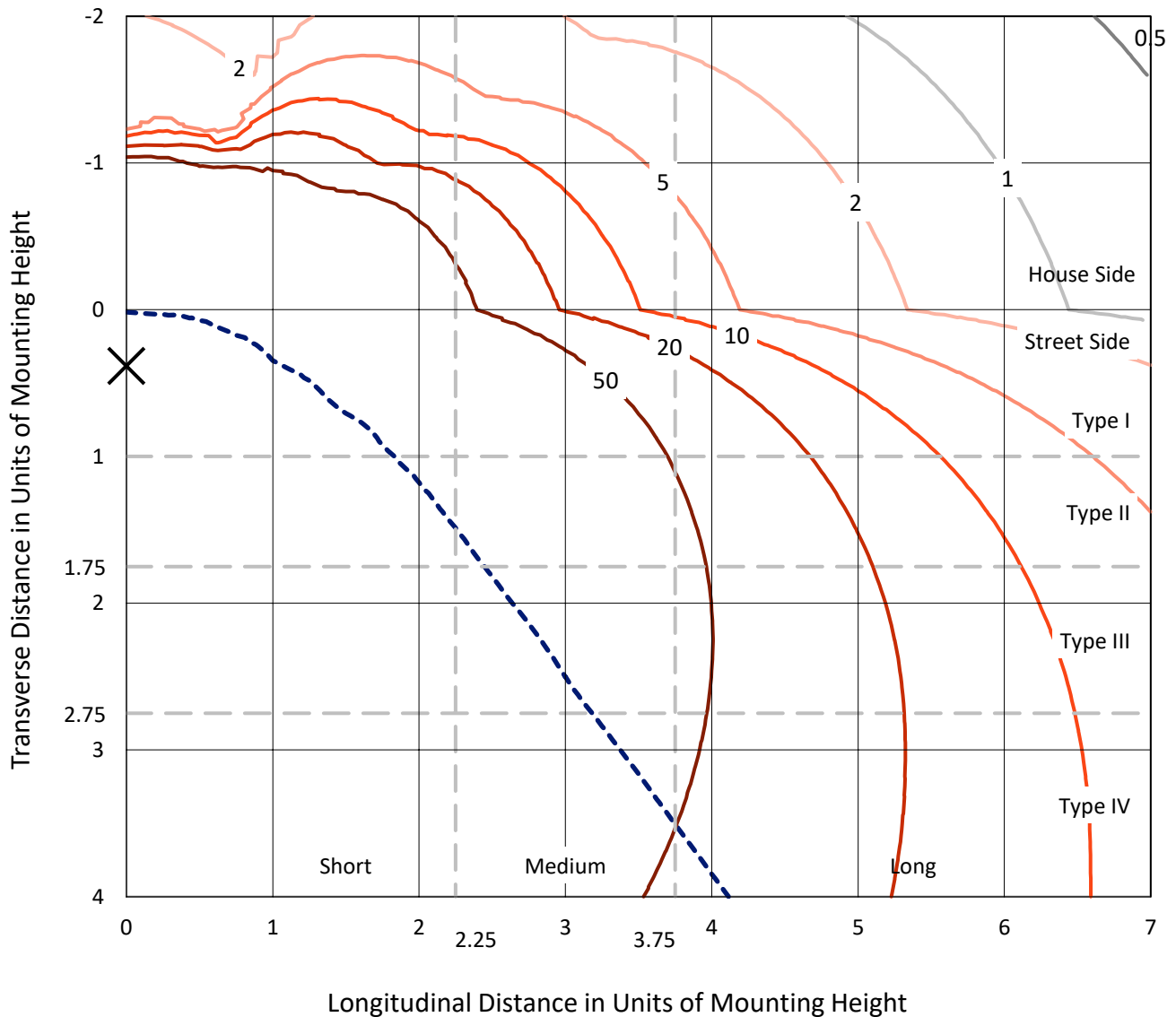
Input Watts (W): 68.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

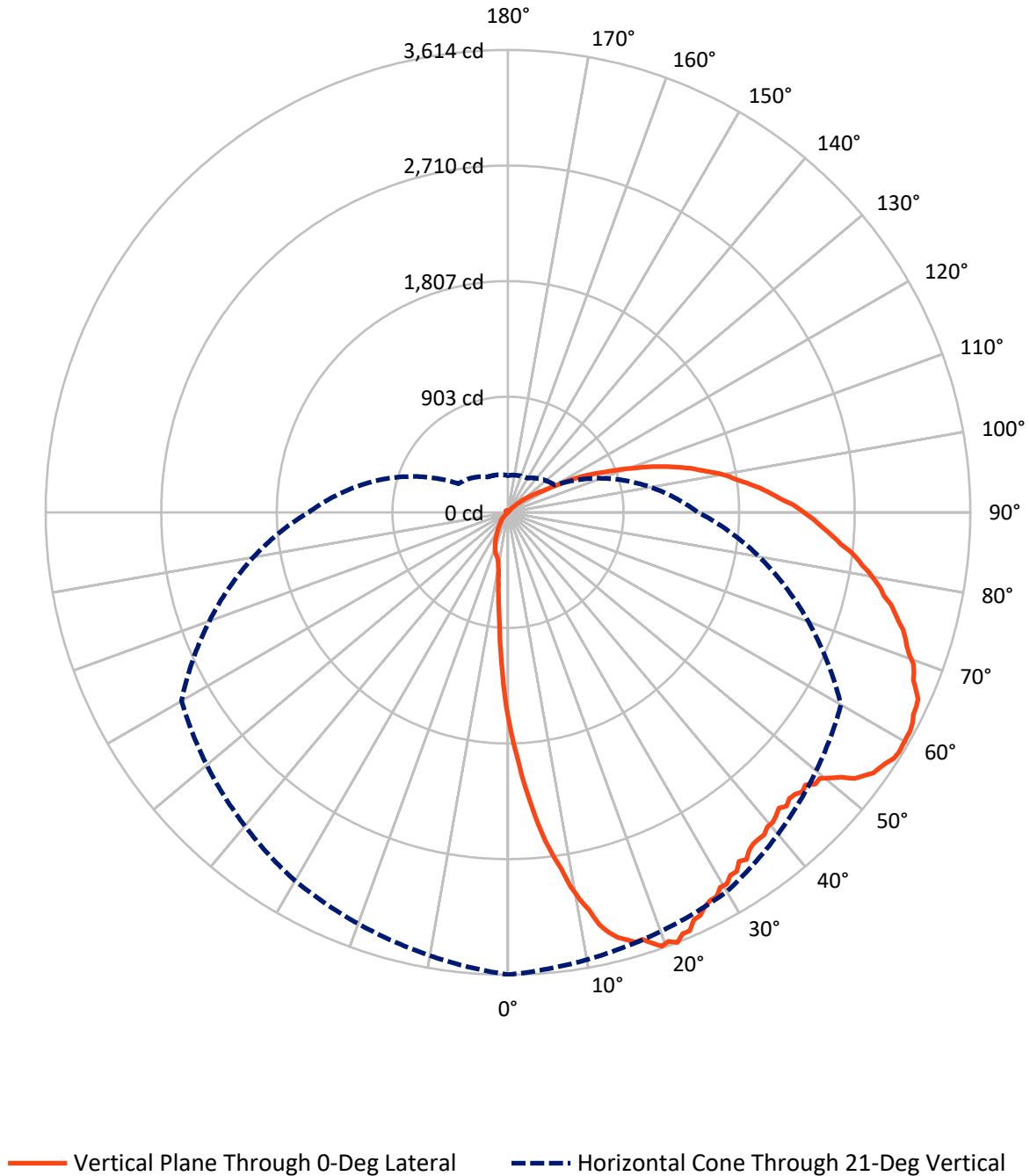
× Max cd
 - - - 1/2 Max cd



Based on 0.5 foot mounting height. Maximum calculated value = 12535.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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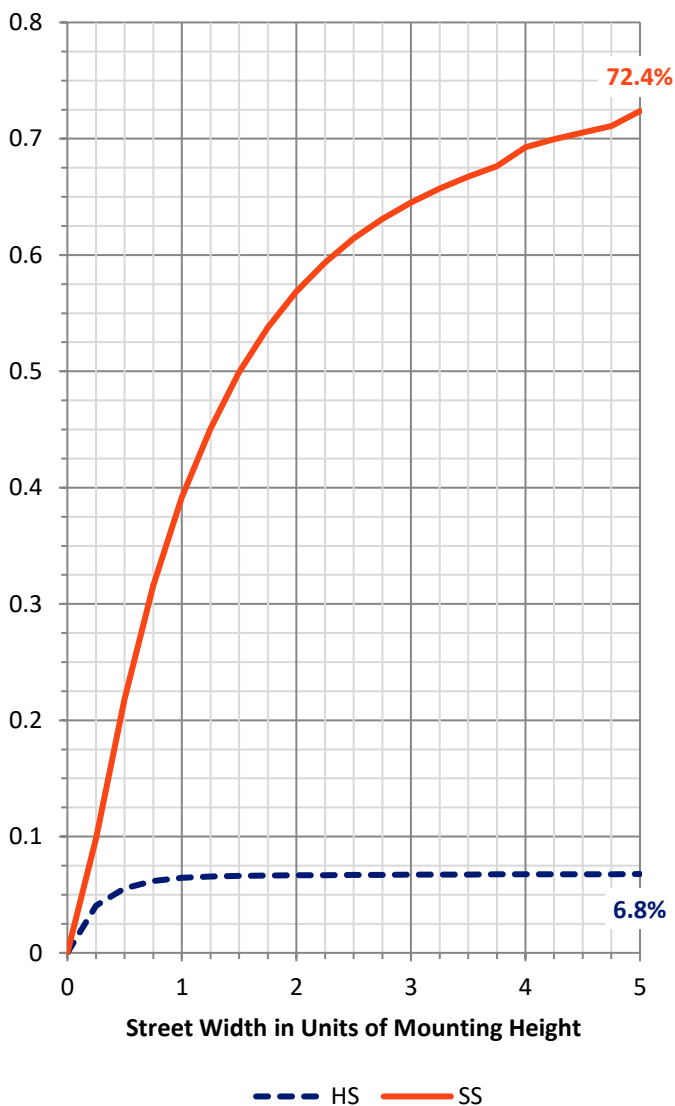
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	601.2	57.7	658.9
	% Fixture	6.9	0.7	7.5
Street Side	Lumens	6899.8	1168.4	8068.1
	% Fixture	79.1	13.4	92.5
Total	Lumens	7501.0	1226.0	8727.0
	% Fixture	86.0	14.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.6	1.8
10°-20°	492.0	5.6
20°-30°	795.7	9.1
30°-40°	963.7	11.0
40°-50°	1034.9	11.9
50°-60°	1108.5	12.7
60°-70°	1114.5	12.8
70°-80°	1010.6	11.6
80°-90°	823.4	9.4
90°-100°	595.4	6.8
100°-110°	367.6	4.2
110°-120°	166.2	1.9
120°-130°	59.2	0.7
130°-140°	20.0	0.2
140°-150°	8.1	0.1
150°-160°	5.3	0.1
160°-170°	3.2	0.0
170°-180°	1.1	0.0
0°-90°	7501.0	86.0
0°-180°	8727.0	100.0

Coefficient of Utilization

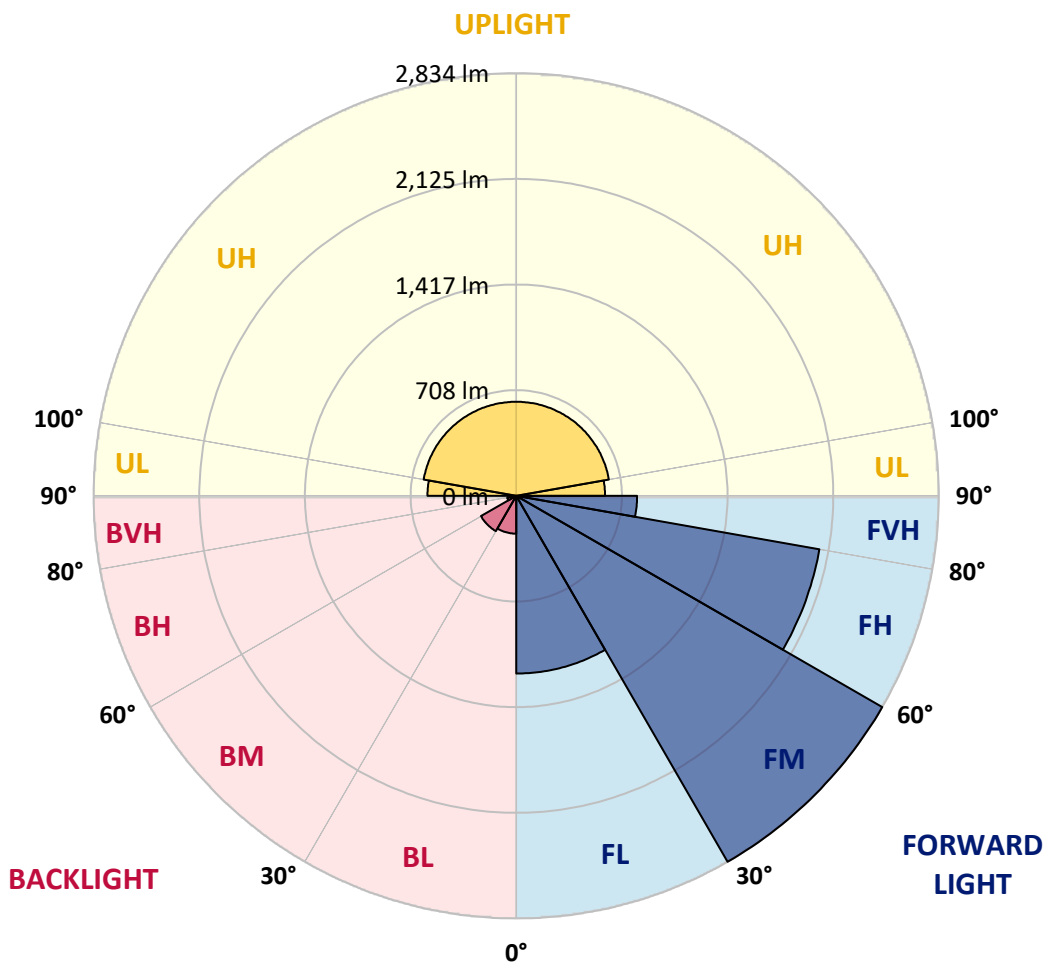


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1191.7	13.7			
FM (30°-60°)	2833.9	32.5			
FH (60°-80°)	2064.2	23.7			G2/5000
FVH (80°-90°)	809.9	9.3			G5
BL (0°-30°)	253.6	2.9	B1/500		
BM (30°-60°)	273.2	3.1	B1/1000		
BH (60°-80°)	60.9	0.7	B0/110		G0/110
BVH (80°-90°)	13.5	0.2			G1/100
UL (90°-100°)	595.4	6.8		U4/1000	
UH (100°-180°)	630.6	7.2		U4/1000	

BUG Rating: B1-U4-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6
1°	1818.2	1811.1	1756.5	1670.8	1594.4	1534.9	1510.6	1518.0	1568.8	1643.8	1714.2
2°	1970.2	1948.0	1836.6	1668.5	1513.9	1403.8	1340.8	1363.2	1495.3	1660.9	1791.9
3°	2137.2	2104.4	1915.2	1657.9	1436.9	1251.7	1166.6	1213.6	1424.7	1681.6	1887.9
4°	2285.8	2238.0	1977.3	1636.6	1346.1	1106.6	1012.2	1071.6	1339.2	1672.2	1982.5
5°	2443.2	2366.9	2024.0	1617.8	1247.7	967.1	858.2	936.1	1235.0	1657.9	2024.9
6°	2582.7	2491.3	2102.6	1617.5	1153.2	846.3	749.9	835.1	1141.3	1669.7	2081.6
7°	2704.7	2597.8	2164.7	1592.5	1073.2	750.9	655.4	747.3	1066.4	1684.4	2173.5
8°	2816.2	2692.0	2224.6	1558.3	987.3	662.9	571.5	662.6	993.4	1671.7	2281.6
9°	2964.0	2798.2	2267.1	1548.1	903.8	586.3	502.0	587.3	916.7	1657.0	2349.3
10°	3074.0	2926.4	2287.5	1561.9	829.3	522.1	451.7	525.2	848.1	1638.2	2394.9
11°	3168.7	3033.8	2412.6	1551.1	773.9	471.6	416.0	477.3	793.3	1652.7	2433.9
12°	3301.2	3144.3	2490.9	1542.7	722.0	435.1	388.9	442.7	740.6	1667.0	2468.3
13°	3376.9	3219.9	2542.5	1545.8	673.3	406.7	370.3	416.7	698.8	1658.2	2540.1
14°	3431.1	3311.1	2585.3	1533.0	628.6	383.0	359.3	394.7	656.2	1636.4	2628.3
15°	3464.7	3337.2	2645.9	1538.8	589.6	364.0	351.6	376.9	615.0	1621.7	2718.7
16°	3503.3	3336.1	2726.7	1543.5	554.2	349.1	343.6	363.8	575.6	1619.6	2730.2
17°	3499.9	3328.5	2814.0	1537.6	522.1	338.9	335.2	354.4	541.8	1607.8	2736.7
18°	3549.2	3381.5	2891.5	1516.1	495.1	330.9	326.1	345.6	513.4	1581.5	2770.7
19°	3596.9	3414.8	2921.2	1514.4	470.5	324.1	313.0	337.1	487.9	1579.4	2824.9
20°	3579.6	3425.7	2956.4	1512.1	446.0	316.7	302.4	327.8	466.4	1578.1	2890.7
21°	3613.5	3422.0	3004.9	1485.5	424.5	308.8	287.8	319.0	448.4	1557.9	2946.4
22°	3565.5	3464.7	3065.1	1463.2	404.8	296.3	274.9	305.5	433.1	1552.2	2945.1
23°	3564.6	3480.5	3101.2	1415.4	386.5	286.9	260.7	295.5	417.6	1542.6	2941.4
24°	3500.1	3530.3	3112.4	1400.1	367.8	274.2	246.8	281.1	401.5	1521.0	2944.6
25°	3490.1	3472.3	3118.6	1357.2	349.8	262.2	231.2	269.0	386.9	1512.2	2974.1
26°	3445.0	3454.0	3116.7	1313.1	333.0	250.8	216.7	257.0	373.1	1504.1	3015.9
27°	3421.5	3374.3	3130.1	1287.0	319.9	237.1	201.6	241.5	358.6	1489.8	3029.5
28°	3418.0	3338.9	3164.1	1278.3	308.8	225.0	187.8	227.0	346.6	1483.8	3034.0
29°	3368.5	3308.8	3115.7	1262.2	299.0	211.3	174.0	214.5	336.4	1473.6	2979.7
30°	3371.1	3254.7	3062.3	1231.0	289.5	198.0	161.9	203.0	327.9	1456.8	2927.7
31°	3327.6	3273.5	3034.9	1201.3	280.6	185.4	149.9	191.4	319.2	1427.5	2912.5
32°	3327.2	3275.7	2984.6	1166.9	272.5	173.9	139.9	180.4	311.3	1404.4	2893.3
33°	3272.5	3243.9	2911.9	1132.8	265.0	163.0	129.5	170.6	303.5	1364.3	2897.6
34°	3291.3	3217.8	2909.7	1101.9	257.0	152.9	119.3	160.5	295.5	1328.0	2856.9
35°	3246.1	3198.4	2906.0	1069.4	249.3	143.1	111.5	151.4	285.6	1301.0	2815.4
36°	3223.3	3171.8	2862.1	1033.0	242.9	133.9	103.8	142.2	278.6	1284.9	2795.1
37°	3217.7	3131.9	2837.3	1012.3	236.5	124.6	95.3	133.6	271.5	1255.7	2752.5
38°	3218.4	3097.1	2857.2	1000.7	228.2	115.5	90.6	124.9	261.7	1228.7	2656.4
39°	3186.5	3067.6	2831.3	1005.3	221.7	106.3	88.2	116.6	253.2	1172.9	2607.6
40°	3187.6	3019.1	2804.6	980.9	214.6	97.9	83.1	108.4	245.4	1140.2	2537.8
41°	3164.2	2996.9	2823.7	949.2	206.6	89.7	77.7	100.6	235.9	1105.1	2476.8
42°	3135.2	2965.0	2754.5	897.1	198.9	81.8	71.9	92.9	228.2	1088.1	2430.6
43°	3163.7	2929.0	2638.8	852.1	190.5	74.2	65.2	85.2	219.7	1073.6	2392.6
44°	3136.4	2931.2	2571.1	825.9	183.5	67.1	56.3	77.8	211.1	1056.2	2331.2



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CATALOG NUMBER: WXPB120LSFSUNVDBZ-70W-3000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	3145.0	2960.4	2489.4	839.9	175.7	60.1	46.7	70.3	202.4	1041.2	2287.5
46°	3172.6	2967.5	2397.3	824.7	168.6	53.2	38.7	62.5	193.6	1011.1	2283.3
47°	3153.7	2906.8	2356.0	798.7	160.5	46.5	27.6	54.6	185.4	970.6	2261.8
48°	3205.2	2868.5	2351.4	760.2	153.2	40.4	19.3	47.1	176.9	934.2	2216.7
49°	3202.5	2853.9	2358.4	727.9	145.1	33.9	3.8	39.3	168.9	907.8	2184.1
50°	3264.0	2838.1	2340.3	713.4	137.4	27.8	2.8	32.3	161.2	894.0	2151.7
51°	3325.0	2861.8	2346.4	690.5	129.3	20.7	3.0	25.1	153.9	868.2	2081.7
52°	3415.6	2858.1	2359.4	645.5	122.2	13.6	3.2	17.7	146.9	824.7	2051.2
53°	3460.0	2868.5	2319.2	611.4	114.6	3.3	3.4	7.3	139.3	779.5	2000.8
54°	3508.0	2901.5	2257.4	597.0	108.0	3.0	3.6	4.4	132.2	756.0	1946.3
55°	3525.9	2922.3	2210.6	567.9	100.7	3.1	3.8	4.4	124.8	747.0	1939.7
56°	3547.9	2940.2	2144.0	528.0	94.1	3.3	4.0	4.5	117.2	715.7	1942.7
57°	3577.1	2936.6	2102.1	495.7	87.8	3.5	4.2	4.8	109.6	678.1	1936.7
58°	3585.5	2949.3	2061.9	472.0	81.8	3.7	4.4	4.9	102.6	651.2	1924.7
59°	3580.7	2944.3	2053.1	447.1	76.0	3.9	4.7	5.1	95.9	617.1	1894.4
60°	3577.8	2933.9	2056.8	418.2	70.3	4.1	4.9	5.3	89.2	575.1	1859.4
61°	3577.7	2906.9	2033.7	388.1	65.0	4.3	5.1	5.6	83.1	539.7	1809.2
62°	3563.8	2910.5	1997.6	361.6	59.7	4.5	5.4	5.8	77.0	506.8	1776.9
63°	3541.4	2896.9	1929.5	331.1	55.0	4.7	5.6	6.0	71.4	476.2	1753.8
64°	3534.0	2883.3	1876.6	301.9	50.5	4.9	5.9	6.3	66.1	444.8	1737.1
65°	3522.4	2873.0	1849.3	273.2	47.0	5.1	6.1	6.5	61.3	413.2	1723.0
66°	3477.8	2865.4	1816.5	248.6	44.1	5.3	6.4	6.8	56.7	383.0	1683.2
67°	3430.0	2852.4	1775.9	225.5	41.8	5.5	6.6	7.1	52.9	354.7	1655.8
68°	3410.6	2829.5	1735.5	202.1	39.7	5.8	6.9	7.3	50.1	327.8	1624.6
69°	3383.4	2798.4	1692.1	184.6	38.1	6.0	7.2	7.5	47.6	304.0	1599.0
70°	3326.8	2779.7	1660.4	169.0	36.1	6.2	7.5	7.7	45.3	281.6	1577.0
71°	3285.1	2748.8	1609.5	155.1	34.3	6.5	7.7	7.9	43.4	259.4	1532.3
72°	3256.2	2724.3	1570.4	143.1	32.7	6.7	8.0	8.2	41.3	238.2	1496.4
73°	3220.1	2691.9	1527.8	132.3	31.1	7.0	8.3	8.4	39.6	218.6	1466.2
74°	3164.0	2663.9	1491.3	122.5	29.5	7.2	8.6	8.5	37.8	200.4	1428.2
75°	3121.4	2620.9	1447.3	112.9	27.9	7.4	8.9	8.7	36.5	183.1	1381.5
76°	3078.2	2581.0	1391.7	104.5	26.8	7.7	9.2	8.8	35.2	167.4	1347.1
77°	3008.0	2546.1	1357.0	96.4	26.0	8.0	9.4	8.9	34.2	153.1	1306.1
78°	2971.7	2510.0	1320.0	89.4	25.4	8.2	9.7	9.1	33.3	139.5	1260.5
79°	2915.6	2472.0	1277.7	82.5	25.0	8.5	10.0	9.3	32.1	127.4	1224.1
80°	2865.2	2430.7	1241.2	76.1	24.7	8.7	10.3	9.5	31.5	115.8	1185.5
81°	2798.6	2394.2	1195.0	70.1	24.4	9.0	10.6	9.7	30.9	105.4	1146.9
82°	2750.8	2350.2	1149.4	64.7	24.1	9.2	10.9	9.9	30.1	95.4	1102.1
83°	2691.2	2299.5	1108.6	59.8	23.8	9.5	11.2	10.1	29.7	86.7	1062.2
84°	2616.1	2249.4	1057.8	55.1	23.5	9.7	11.5	10.3	29.3	79.1	1025.4
85°	2561.7	2194.2	1017.7	50.7	23.4	9.9	11.8	10.6	29.1	72.2	987.4
86°	2505.9	2145.1	973.4	46.5	23.1	10.2	12.1	10.9	28.5	65.4	948.2
87°	2448.3	2096.3	932.1	43.0	22.8	10.4	12.4	11.1	27.9	59.4	905.0
88°	2397.0	2045.3	891.3	39.8	22.6	10.7	12.6	11.4	28.9	54.1	864.7
89°	2339.8	1987.0	846.8	37.3	22.5	10.9	12.9	11.6	28.9	49.4	825.8



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	2287.7	1931.7	806.9	35.4	22.2	11.2	13.2	11.8	28.7	45.4	783.0
91°	2230.2	1879.7	766.4	33.8	22.0	11.4	13.4	12.0	28.5	42.4	744.2
92°	2155.8	1825.7	721.9	32.6	21.8	11.6	13.7	12.2	27.4	40.5	704.3
93°	2092.4	1772.9	684.2	31.9	21.6	11.8	13.9	12.3	27.0	39.1	669.0
94°	2037.7	1716.1	643.6	31.5	21.4	12.0	14.1	12.3	26.9	38.1	632.4
95°	1976.9	1661.3	608.2	31.5	21.2	12.2	14.3	12.4	26.6	37.5	599.5
96°	1910.1	1601.0	572.7	31.7	21.0	12.4	14.5	12.5	26.4	37.2	564.2
97°	1846.3	1542.5	538.2	32.2	20.8	12.6	14.7	12.6	26.1	37.1	527.9
98°	1785.1	1482.4	510.3	32.7	20.5	12.8	14.9	12.7	25.8	37.1	496.8
99°	1733.6	1421.9	479.9	33.2	20.3	12.9	15.1	12.8	25.4	37.2	468.1
100°	1670.1	1365.0	451.5	33.6	20.1	13.1	15.2	12.8	25.1	37.5	441.4
101°	1598.0	1302.8	426.4	34.0	19.8	13.3	15.4	13.0	24.9	37.9	415.3
102°	1530.4	1234.9	398.8	34.4	19.4	13.4	15.5	13.1	24.6	38.4	390.7
103°	1470.3	1176.0	374.8	34.8	19.2	13.5	15.6	13.3	24.3	38.9	366.8
104°	1401.5	1115.7	352.3	35.1	18.9	13.7	15.7	13.4	24.0	39.4	344.9
105°	1330.3	1054.2	327.9	35.4	18.6	13.8	15.8	13.6	23.7	39.9	322.4
106°	1256.2	1000.1	307.7	35.6	18.5	13.9	15.9	13.7	23.6	40.3	297.6
107°	1188.8	943.7	287.1	35.7	18.3	14.1	15.9	13.8	23.4	40.6	270.7
108°	1113.2	892.7	266.6	35.7	18.1	14.2	15.9	14.0	23.1	40.9	245.1
109°	1033.2	835.7	247.0	35.7	17.9	14.3	16.0	14.1	22.8	41.2	219.0
110°	962.1	780.6	226.6	35.6	17.8	14.4	16.0	14.2	22.4	41.3	194.4
111°	893.5	726.5	207.7	35.6	17.6	14.5	16.1	14.3	22.1	41.4	174.2
112°	826.9	668.5	191.5	35.4	17.3	14.6	16.1	14.4	21.8	41.3	156.9
113°	769.4	603.6	176.1	35.3	17.2	14.8	16.1	14.6	21.5	41.1	141.7
114°	713.6	538.9	162.2	35.0	17.1	14.9	16.2	14.7	21.1	40.8	127.7
115°	662.4	466.1	148.9	34.9	17.0	15.0	16.2	14.9	20.8	40.6	116.2
116°	604.4	401.2	136.6	34.7	16.9	15.1	16.3	15.0	20.5	40.4	104.5
117°	544.6	347.2	125.2	34.4	16.8	15.2	16.3	15.1	20.3	40.1	94.9
118°	474.7	299.3	115.2	34.1	16.7	15.3	16.3	15.2	20.0	39.8	87.0
119°	413.8	266.5	106.2	33.8	16.6	15.4	16.3	15.3	19.8	39.3	79.9
120°	362.6	242.8	98.2	33.3	16.5	15.5	16.4	15.4	19.6	38.7	73.3
121°	323.7	220.4	91.4	32.6	16.5	15.6	16.4	15.5	19.4	37.7	67.2
122°	295.8	200.9	86.4	31.9	16.4	15.8	16.5	15.7	19.2	36.6	62.1
123°	270.7	184.9	81.1	31.2	16.4	15.9	16.5	15.8	18.9	35.4	56.2
124°	246.5	167.3	74.7	30.3	16.3	16.0	16.6	15.9	18.8	34.1	50.1
125°	224.8	153.4	67.8	29.4	16.3	16.1	16.6	16.0	18.6	32.7	43.9
126°	203.6	136.6	62.4	28.4	16.2	16.2	16.7	16.1	18.5	31.5	39.1
127°	184.9	121.7	57.6	27.4	16.2	16.3	16.8	16.2	18.3	30.2	35.6
128°	167.4	107.7	53.1	26.4	16.1	16.4	16.8	16.3	18.1	29.0	32.3
129°	148.9	94.0	48.6	25.2	16.1	16.5	16.9	16.4	17.8	27.8	29.2
130°	132.2	82.9	44.5	24.1	16.0	16.6	16.9	16.5	17.6	26.5	26.1
131°	116.1	72.4	40.0	23.0	16.0	16.7	17.0	16.6	17.3	25.2	23.2
132°	98.0	63.0	35.5	22.0	15.9	16.8	17.1	16.7	17.1	23.8	20.7
133°	81.5	55.6	31.6	21.0	15.8	16.8	17.2	16.8	16.8	22.4	18.6
134°	69.2	48.7	28.1	20.1	15.7	16.9	17.2	16.8	16.4	20.9	16.8



REPORT NUMBER: P670578
 CATALOG NUMBER: WXPM120LSFSUNVDBZ-70W-3000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	58.0	42.0	25.3	19.3	15.6	17.0	17.3	16.9	16.0	19.4	15.5
136°	49.2	35.9	22.9	18.5	15.5	17.0	17.3	17.0	15.6	17.8	13.4
137°	41.6	31.0	20.4	17.8	15.4	17.1	17.4	17.0	15.0	16.3	11.1
138°	35.0	26.7	18.3	17.1	15.3	17.1	17.5	17.1	14.4	14.8	9.6
139°	29.1	22.2	17.3	16.5	15.2	17.2	17.5	17.1	14.0	13.5	9.1
140°	23.3	17.5	16.4	16.0	15.0	17.2	17.6	17.2	13.8	12.4	8.8
141°	18.3	14.5	15.7	15.4	14.9	17.2	17.7	17.1	13.6	11.4	8.6
142°	14.7	13.5	15.1	14.8	14.7	17.2	17.7	17.0	13.5	10.5	8.7
143°	11.3	12.3	14.8	14.2	14.6	17.1	17.7	17.0	13.4	9.8	8.9
144°	6.1	11.9	14.5	13.6	14.3	17.1	17.7	17.0	13.4	9.5	9.4
145°	4.5	12.1	14.0	13.0	14.1	17.1	17.7	16.9	13.4	9.3	10.0
146°	4.3	11.7	14.1	12.4	14.0	17.0	17.6	16.8	13.3	9.3	10.5
147°	4.2	10.6	14.1	11.8	14.0	16.9	17.6	16.7	13.1	9.4	10.9
148°	4.2	9.9	14.4	11.2	14.0	16.9	17.5	16.6	13.0	9.5	11.4
149°	4.3	9.4	14.7	10.8	14.0	16.8	17.4	16.5	12.8	9.6	11.7
150°	4.3	9.1	15.1	10.6	14.0	16.7	17.3	16.3	12.8	9.8	12.1
151°	4.1	8.7	15.7	10.6	14.0	16.6	17.2	16.1	12.7	9.9	11.5
152°	3.9	7.8	15.1	10.6	13.9	16.4	17.1	16.0	12.6	10.0	10.7
153°	3.8	7.2	14.2	10.7	13.9	16.3	16.9	15.9	12.6	10.1	10.1
154°	4.1	7.6	13.3	10.8	13.9	16.2	16.8	15.8	12.5	10.2	9.6
155°	4.2	8.1	12.5	10.9	13.9	16.0	16.6	15.6	12.5	10.3	9.0
156°	4.5	8.5	11.3	11.0	13.9	15.9	16.4	15.4	12.4	10.4	9.1
157°	4.8	9.0	10.9	11.1	13.9	15.7	16.2	15.1	12.4	10.5	9.1
158°	5.3	9.3	10.7	11.2	13.8	15.6	16.0	14.9	12.3	10.6	9.2
159°	5.7	9.4	10.6	11.3	13.8	15.4	15.8	14.8	12.3	10.7	9.3
160°	6.1	9.5	10.4	11.4	13.8	15.2	15.5	14.6	12.2	10.8	9.4
161°	6.5	9.5	10.3	11.4	13.7	15.1	15.3	14.4	12.0	10.9	9.5
162°	6.7	9.7	10.2	11.5	13.7	14.9	15.1	14.2	12.0	11.0	9.6
163°	7.0	9.7	10.1	11.6	13.6	14.7	14.8	14.1	11.9	11.0	9.7
164°	7.1	9.1	10.1	11.6	13.5	14.6	14.6	13.8	11.9	11.1	9.8
165°	7.3	8.6	10.1	11.7	13.5	14.4	14.4	13.6	11.8	11.2	9.9
166°	7.3	7.9	10.0	11.7	13.4	14.2	14.1	13.3	11.8	11.3	10.0
167°	7.3	7.9	9.6	11.8	13.3	14.1	13.9	13.1	11.7	11.4	10.1
168°	7.4	8.1	9.4	11.9	13.2	13.9	13.7	12.9	11.5	11.4	10.2
169°	7.7	8.3	9.4	11.9	13.1	13.7	13.4	12.7	11.5	11.5	10.2
170°	8.1	8.4	9.5	11.9	13.0	13.5	13.1	12.5	11.4	11.6	10.4
171°	8.4	8.6	9.5	12.0	12.9	13.3	12.9	12.3	11.2	11.6	10.5
172°	8.7	8.8	9.6	12.0	12.8	13.0	12.6	12.1	11.1	11.7	10.6
173°	9.0	9.1	9.7	12.1	12.6	12.8	12.4	11.9	11.0	11.7	10.7
174°	9.4	9.3	9.8	12.1	12.5	12.6	12.1	11.6	10.8	11.8	10.8
175°	9.6	9.5	9.8	12.1	12.4	12.4	11.8	11.4	10.6	11.8	11.0
176°	10.0	9.7	9.7	12.1	12.2	12.1	11.5	11.2	10.0	11.9	11.1
177°	10.2	9.9	9.6	12.1	12.1	11.9	11.2	10.9	9.9	11.9	11.3
178°	10.3	9.9	9.6	12.1	11.9	11.7	10.9	10.5	9.8	12.0	11.4
179°	10.4	9.9	9.6	12.1	11.8	11.4	10.6	10.1	9.7	12.0	11.6



REPORT NUMBER: P670578
CATALOG NUMBER: WXPM120LSFSUNVDBZ-70W-3000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4



REPORT NUMBER: P670578
CATALOG NUMBER: WXPM120LSFSUNVDBZ-70W-3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	1666.6	1666.6
1°	1777.9	1818.2
2°	1896.5	1970.2
3°	2041.3	2137.2
4°	2186.3	2285.8
5°	2352.6	2443.2
6°	2474.7	2582.7
7°	2577.4	2704.7
8°	2669.2	2816.2
9°	2733.8	2964.0
10°	2842.0	3074.0
11°	2933.3	3168.7
12°	2990.8	3301.2
13°	3127.0	3376.9
14°	3224.6	3431.1
15°	3354.5	3464.7
16°	3391.5	3503.3
17°	3417.1	3499.9
18°	3417.8	3549.2
19°	3346.6	3596.9
20°	3318.6	3579.6
21°	3325.7	3613.5
22°	3362.8	3565.5
23°	3411.2	3564.6
24°	3422.7	3500.1
25°	3413.3	3490.1
26°	3362.5	3445.0
27°	3291.5	3421.5
28°	3224.6	3418.0
29°	3155.6	3368.5
30°	3144.7	3371.1
31°	3152.7	3327.6
32°	3124.6	3327.2
33°	3077.4	3272.5
34°	3031.8	3291.3
35°	2972.1	3246.1
36°	2926.5	3223.3
37°	2870.4	3217.7
38°	2851.2	3218.4
39°	2823.4	3186.5
40°	2824.2	3187.6
41°	2805.7	3164.2
42°	2795.6	3135.2
43°	2736.4	3163.7
44°	2716.7	3136.4



REPORT NUMBER: P670578
CATALOG NUMBER: WXPM120LSFSUNVDBZ-70W-3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	2689.8	3145.0
46°	2659.5	3172.6
47°	2650.3	3153.7
48°	2646.7	3205.2
49°	2630.4	3202.5
50°	2641.4	3264.0
51°	2646.7	3325.0
52°	2645.6	3415.6
53°	2666.0	3460.0
54°	2681.7	3508.0
55°	2709.7	3525.9
56°	2732.5	3547.9
57°	2756.1	3577.1
58°	2772.5	3585.5
59°	2771.5	3580.7
60°	2768.3	3577.8
61°	2767.8	3577.7
62°	2763.3	3563.8
63°	2758.0	3541.4
64°	2751.8	3534.0
65°	2736.8	3522.4
66°	2725.1	3477.8
67°	2715.2	3430.0
68°	2711.2	3410.6
69°	2694.0	3383.4
70°	2675.9	3326.8
71°	2644.7	3285.1
72°	2625.4	3256.2
73°	2593.6	3220.1
74°	2562.6	3164.0
75°	2531.8	3121.4
76°	2498.6	3078.2
77°	2456.6	3008.0
78°	2419.6	2971.7
79°	2382.3	2915.6
80°	2331.9	2865.2
81°	2287.7	2798.6
82°	2243.1	2750.8
83°	2187.4	2691.2
84°	2134.4	2616.1
85°	2079.8	2561.7
86°	2028.7	2505.9
87°	1974.3	2448.3
88°	1922.5	2397.0
89°	1869.7	2339.8

REPORT NUMBER: P670578

CATALOG NUMBER: WXPM120LSFSUNVDBZ-70W-3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	1811.3	2287.7
91°	1761.0	2230.2
92°	1709.8	2155.8
93°	1651.0	2092.4
94°	1595.5	2037.7
95°	1541.7	1976.9
96°	1485.0	1910.1
97°	1430.5	1846.3
98°	1373.2	1785.1
99°	1318.0	1733.6
100°	1259.8	1670.1
101°	1202.6	1598.0
102°	1140.1	1530.4
103°	1080.0	1470.3
104°	1022.3	1401.5
105°	963.2	1330.3
106°	900.2	1256.2
107°	838.6	1188.8
108°	780.3	1113.2
109°	721.0	1033.2
110°	669.0	962.1
111°	618.6	893.5
112°	569.7	826.9
113°	520.2	769.4
114°	472.4	713.6
115°	415.3	662.4
116°	358.0	604.4
117°	311.5	544.6
118°	274.3	474.7
119°	245.5	413.8
120°	223.0	362.6
121°	202.1	323.7
122°	183.2	295.8
123°	166.4	270.7
124°	150.2	246.5
125°	135.2	224.8
126°	119.7	203.6
127°	105.8	184.9
128°	91.8	167.4
129°	78.1	148.9
130°	66.4	132.2
131°	56.1	116.1
132°	47.2	98.0
133°	40.0	81.5
134°	33.7	69.2



REPORT NUMBER: P670578
CATALOG NUMBER: WXPM120LSFSUNVDBZ-70W-3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
135°	28.3	58.0
136°	23.4	49.2
137°	19.4	41.6
138°	16.0	35.0
139°	12.2	29.1
140°	8.0	23.3
141°	6.5	18.3
142°	6.3	14.7
143°	6.4	11.3
144°	6.9	6.1
145°	7.2	4.5
146°	6.9	4.3
147°	6.5	4.2
148°	6.2	4.2
149°	5.9	4.3
150°	5.9	4.3
151°	5.5	4.1
152°	5.4	3.9
153°	5.9	3.8
154°	6.2	4.1
155°	6.4	4.2
156°	6.7	4.5
157°	7.0	4.8
158°	7.1	5.3
159°	7.2	5.7
160°	7.3	6.1
161°	7.5	6.5
162°	7.5	6.7
163°	7.4	7.0
164°	7.4	7.1
165°	7.5	7.3
166°	7.8	7.3
167°	8.1	7.3
168°	8.3	7.4
169°	8.6	7.7
170°	8.9	8.1
171°	9.2	8.4
172°	9.5	8.7
173°	9.8	9.0
174°	10.1	9.4
175°	10.3	9.6
176°	10.6	10.0
177°	10.8	10.2
178°	11.0	10.3
179°	11.1	10.4



REPORT NUMBER: P670578
CATALOG NUMBER: WXPM120LSFSUNVDBZ-70W-3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
180°	10.4	10.4

(END OF REPORT)