

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: P670579

Luminaire Tested: WXPM120LSFSUNVDBZ-70W-4000K

Issue Date: 4/4/2023

Test Information

Test Method: LM-79-2019
Report Number: P670579
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-4000K
Description: WALL PACK
Light Source:
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9548 lumens
Efficiency: N/A
Efficacy: 143.1 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

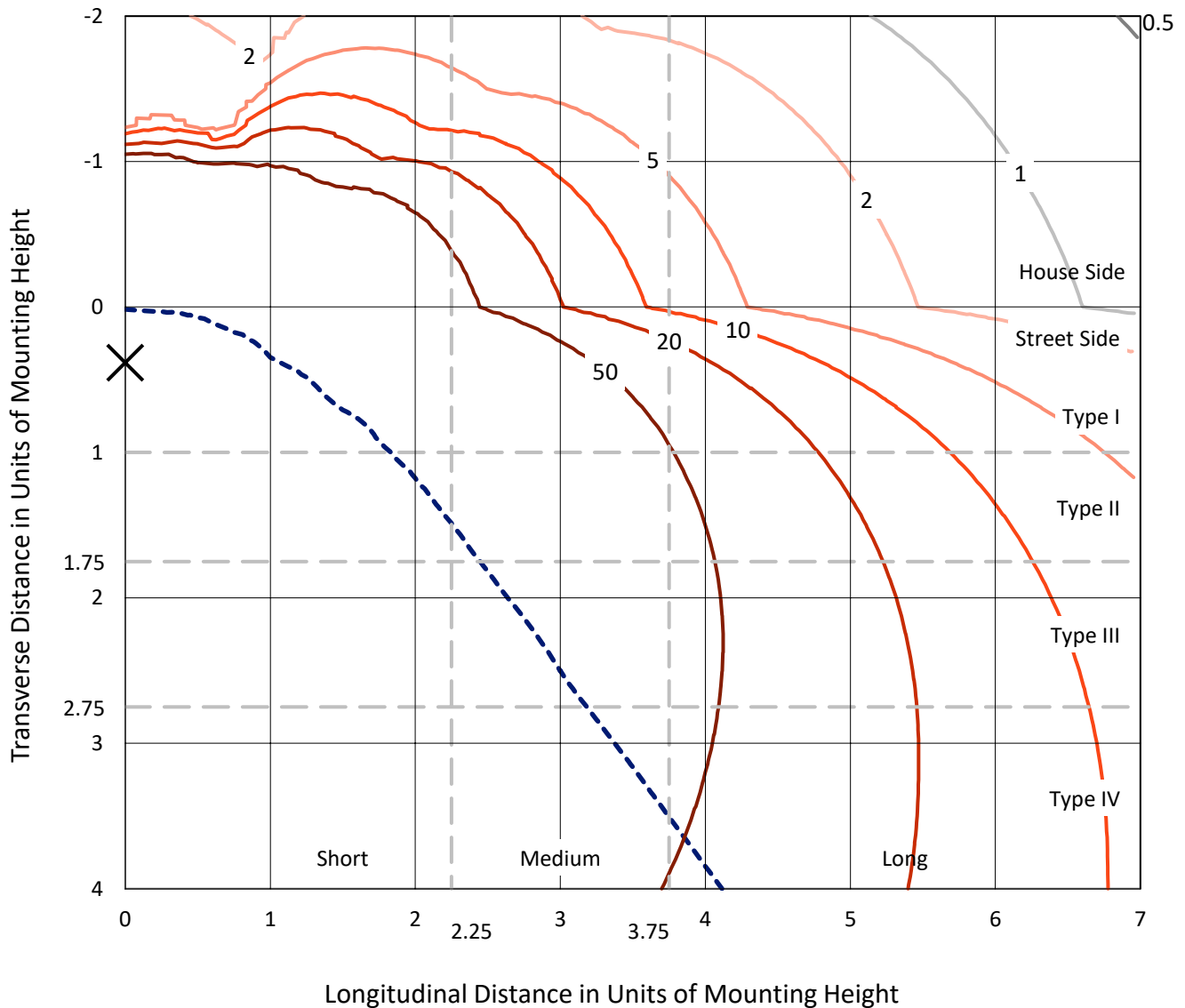
Input Watts (W): 66.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

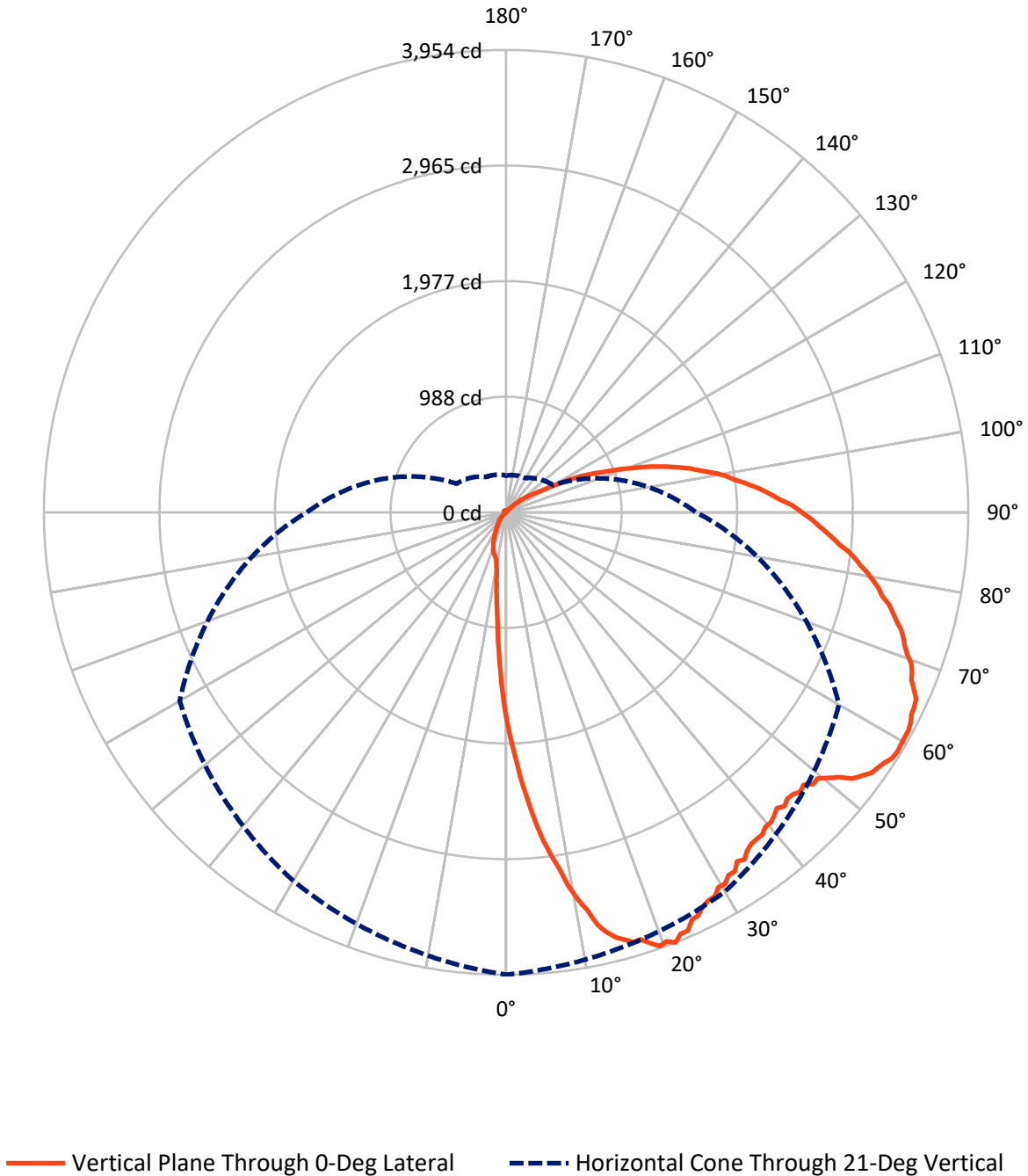
× Max cd
 - - - 1/2 Max cd



Based on 0.5 foot mounting height. Maximum calculated value = 13715.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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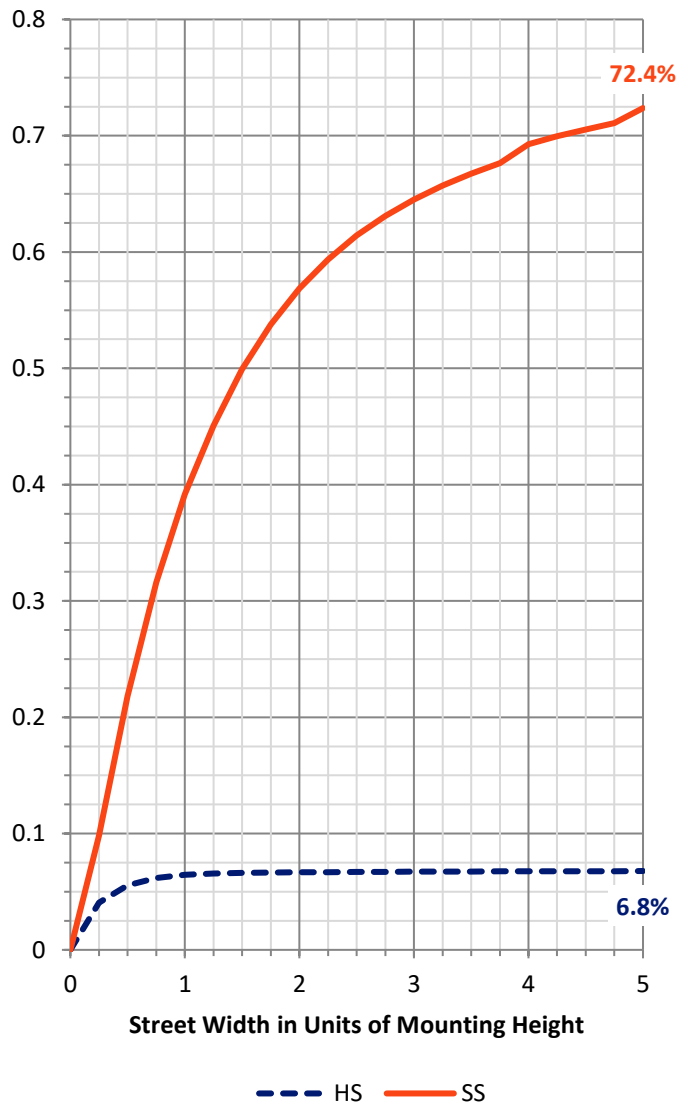
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	657.7	63.1	720.9
	% Fixture	6.9	0.7	7.5
Street Side	Lumens	7548.9	1278.3	8827.1
	% Fixture	79.1	13.4	92.5
Total	Lumens	8206.6	1341.4	9548.0
	% Fixture	86.0	14.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.4	1.8
10°-20°	538.3	5.6
20°-30°	870.5	9.1
30°-40°	1054.4	11.0
40°-50°	1132.3	11.9
50°-60°	1212.8	12.7
60°-70°	1219.3	12.8
70°-80°	1105.7	11.6
80°-90°	900.9	9.4
90°-100°	651.4	6.8
100°-110°	402.1	4.2
110°-120°	181.9	1.9
120°-130°	64.8	0.7
130°-140°	21.9	0.2
140°-150°	8.9	0.1
150°-160°	5.8	0.1
160°-170°	3.5	0.0
170°-180°	1.2	0.0
0°-90°	8206.6	86.0
0°-180°	9548.0	100.0

Coefficient of Utilization



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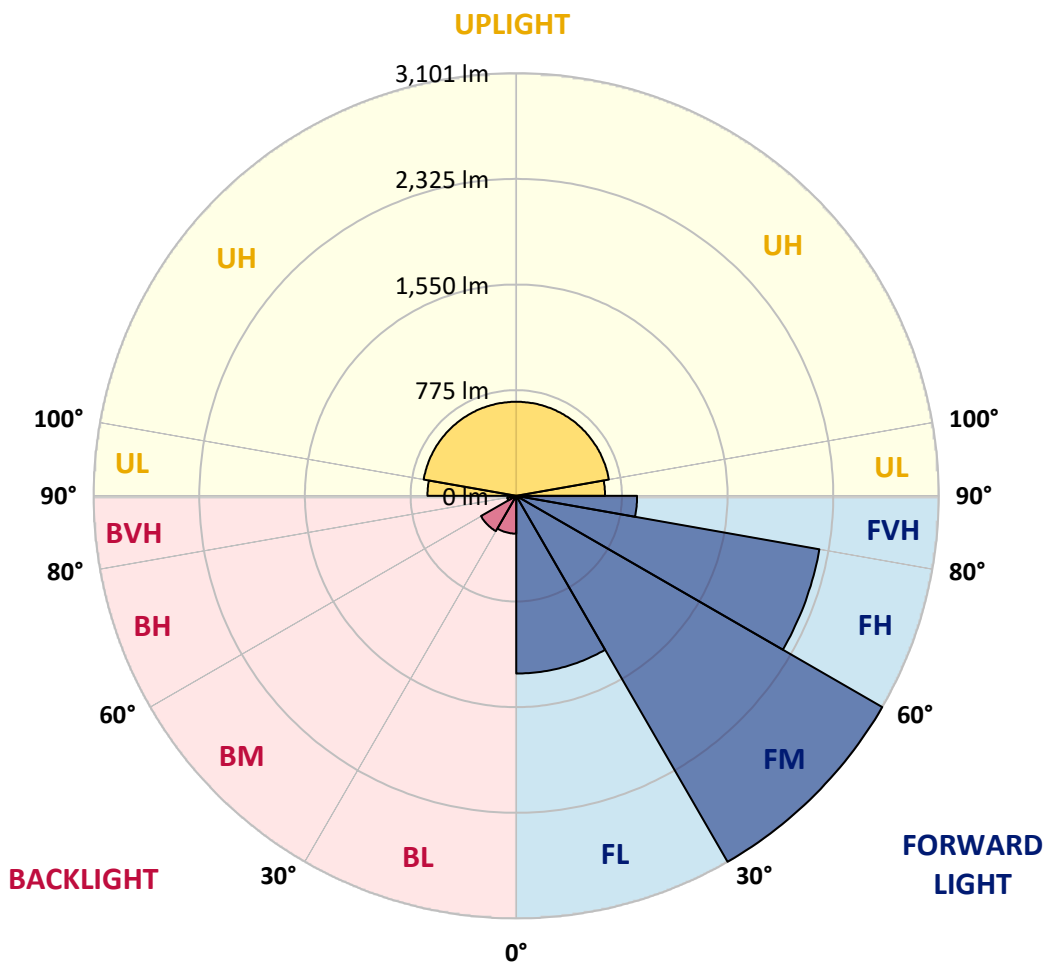
CATALOG NUMBER: WXP120LSFSUNVDBZ-70W-4000K

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1303.8	13.7			
FM (30°-60°)	3100.5	32.5			
FH (60°-80°)	2258.4	23.7			G2/5000
FVH (80°-90°)	886.1	9.3			G5
BL (0°-30°)	277.4	2.9	B1/500		
BM (30°-60°)	298.9	3.1	B1/1000		
BH (60°-80°)	66.6	0.7	B0/110		G0/110
BVH (80°-90°)	14.8	0.2			G1/100
UL (90°-100°)	651.4	6.8		U4/1000	
UH (100°-180°)	690.0	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°	1823.4	1823.4	1823.4	1823.4	1823.4	1823.4	1823.4	1823.4	1823.4	1823.4	1823.4
1°	1989.2	1981.5	1921.8	1828.0	1744.4	1679.3	1652.7	1660.9	1716.3	1798.5	1875.4
2°	2155.6	2131.3	2009.4	1825.4	1656.3	1535.9	1467.0	1491.5	1636.0	1817.2	1960.4
3°	2338.3	2302.4	2095.4	1813.9	1572.0	1369.4	1276.4	1327.8	1558.8	1839.8	2065.5
4°	2500.9	2448.6	2163.4	1790.6	1472.8	1210.7	1107.5	1172.4	1465.2	1829.5	2169.0
5°	2673.0	2589.6	2214.4	1770.0	1365.0	1058.1	938.9	1024.2	1351.2	1813.9	2215.4
6°	2825.7	2725.7	2300.4	1769.6	1261.7	925.9	820.4	913.6	1248.7	1826.8	2277.4
7°	2959.2	2842.1	2368.4	1742.3	1174.1	821.5	717.1	817.6	1166.8	1842.9	2377.9
8°	3081.2	2945.3	2433.9	1704.9	1080.2	725.3	625.2	725.0	1086.8	1829.0	2496.3
9°	3242.8	3061.4	2480.4	1693.7	988.8	641.4	549.2	642.6	1003.0	1812.9	2570.3
10°	3363.2	3201.7	2502.7	1708.8	907.3	571.2	494.2	574.6	927.9	1792.3	2620.2
11°	3466.8	3319.3	2639.6	1697.0	846.7	516.0	455.2	522.2	867.9	1808.2	2662.9
12°	3611.8	3440.1	2725.2	1687.8	789.9	476.0	425.5	484.3	810.2	1823.9	2700.5
13°	3694.6	3522.8	2781.7	1691.2	736.6	444.9	405.2	455.9	764.6	1814.2	2779.0
14°	3753.9	3622.6	2828.5	1677.2	687.7	419.0	393.1	431.8	717.9	1790.4	2875.6
15°	3790.6	3651.2	2894.8	1683.5	645.1	398.2	384.6	412.4	672.9	1774.3	2974.4
16°	3832.8	3650.0	2983.3	1688.7	606.3	381.9	375.9	398.1	629.7	1771.9	2987.1
17°	3829.2	3641.6	3078.7	1682.3	571.2	370.8	366.7	387.7	592.8	1759.1	2994.2
18°	3883.1	3699.6	3163.5	1658.8	541.7	362.1	356.8	378.1	561.7	1730.3	3031.3
19°	3935.2	3736.1	3196.1	1656.9	514.7	354.6	342.5	368.8	533.8	1728.0	3090.6
20°	3916.3	3747.9	3234.5	1654.4	487.9	346.5	330.8	358.6	510.3	1726.5	3162.6
21°	3953.5	3743.9	3287.6	1625.3	464.5	337.8	314.8	349.1	490.6	1704.5	3223.5
22°	3901.0	3790.6	3353.4	1600.9	442.9	324.2	300.7	334.2	473.8	1698.2	3222.2
23°	3900.0	3807.9	3393.0	1548.6	422.9	313.9	285.2	323.3	456.9	1687.7	3218.2
24°	3829.3	3862.4	3405.2	1531.8	402.4	300.0	270.1	307.5	439.3	1664.1	3221.6
25°	3818.4	3799.0	3412.0	1484.9	382.7	286.9	252.9	294.3	423.3	1654.5	3253.9
26°	3769.1	3778.9	3409.9	1436.6	364.4	274.3	237.1	281.1	408.2	1645.6	3299.7
27°	3743.4	3691.7	3424.6	1408.0	350.0	259.4	220.5	264.2	392.4	1629.9	3314.4
28°	3739.6	3653.0	3461.7	1398.6	337.8	246.2	205.5	248.4	379.2	1623.4	3319.4
29°	3685.4	3620.1	3408.8	1381.0	327.2	231.2	190.3	234.7	368.1	1612.3	3260.0
30°	3688.2	3560.9	3350.4	1346.8	316.8	216.7	177.2	222.1	358.7	1593.9	3203.1
31°	3640.7	3581.4	3320.4	1314.3	307.0	202.8	164.0	209.5	349.2	1561.8	3186.5
32°	3640.2	3583.9	3265.4	1276.7	298.2	190.2	153.1	197.4	340.6	1536.5	3165.5
33°	3580.3	3549.1	3185.8	1239.4	289.9	178.3	141.7	186.6	332.1	1492.6	3170.1
34°	3601.0	3520.5	3183.4	1205.6	281.1	167.3	130.6	175.7	323.3	1452.9	3125.6
35°	3551.4	3499.3	3179.3	1170.0	272.8	156.6	122.0	165.6	312.5	1423.4	3080.3
36°	3526.5	3470.2	3131.4	1130.1	265.8	146.5	113.5	155.6	304.8	1405.7	3058.0
37°	3520.4	3426.5	3104.2	1107.5	258.7	136.3	104.3	146.2	297.0	1373.9	3011.4
38°	3521.2	3388.5	3126.0	1094.8	249.7	126.3	99.2	136.6	286.3	1344.3	2906.3
39°	3486.3	3356.2	3097.7	1099.9	242.5	116.3	96.4	127.6	277.1	1283.3	2852.9
40°	3487.5	3303.1	3068.4	1073.2	234.7	107.1	90.9	118.6	268.5	1247.5	2776.5
41°	3461.9	3278.9	3089.4	1038.5	226.1	98.1	85.0	110.0	258.1	1209.0	2709.8
42°	3430.2	3243.9	3013.6	981.5	217.6	89.5	78.7	101.6	249.7	1190.4	2659.2
43°	3461.3	3204.5	2887.1	932.3	208.4	81.2	71.3	93.2	240.4	1174.5	2617.6
44°	3431.4	3206.9	2813.0	903.6	200.8	73.4	61.5	85.2	231.0	1155.6	2550.6



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CATALOG NUMBER: WXP120LSFSUNVDBZ-70W-4000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	3440.8	3238.9	2723.6	918.9	192.2	65.8	51.1	76.9	221.4	1139.2	2502.7
46°	3471.0	3246.6	2622.8	902.3	184.5	58.2	42.4	68.4	211.8	1106.3	2498.1
47°	3450.4	3180.3	2577.7	873.9	175.6	50.9	30.2	59.8	202.8	1061.9	2474.5
48°	3506.7	3138.3	2572.6	831.7	167.7	44.2	21.1	51.6	193.6	1022.1	2425.3
49°	3503.8	3122.4	2580.3	796.4	158.7	37.1	4.2	43.0	184.8	993.2	2389.6
50°	3571.1	3105.1	2560.5	780.5	150.3	30.4	3.1	35.4	176.4	978.1	2354.1
51°	3637.8	3131.0	2567.2	755.5	141.5	22.6	3.3	27.5	168.4	949.9	2277.5
52°	3736.9	3126.9	2581.4	706.2	133.6	14.9	3.5	19.3	160.7	902.3	2244.2
53°	3785.5	3138.4	2537.4	668.9	125.4	3.6	3.7	7.9	152.4	852.8	2189.0
54°	3838.0	3174.5	2469.7	653.2	118.2	3.2	3.9	4.8	144.6	827.1	2129.4
55°	3857.6	3197.2	2418.5	621.4	110.1	3.4	4.1	4.8	136.5	817.3	2122.2
56°	3881.6	3216.8	2345.7	577.6	102.9	3.6	4.4	5.0	128.3	783.1	2125.4
57°	3913.6	3212.9	2299.8	542.3	96.0	3.8	4.6	5.2	120.0	741.9	2118.9
58°	3922.8	3226.8	2255.8	516.4	89.5	4.0	4.9	5.4	112.3	712.5	2105.8
59°	3917.6	3221.3	2246.2	489.1	83.1	4.2	5.1	5.6	104.9	675.1	2072.6
60°	3914.4	3210.0	2250.3	457.5	76.9	4.4	5.4	5.8	97.6	629.2	2034.3
61°	3914.3	3180.4	2225.1	424.7	71.1	4.7	5.6	6.1	90.9	590.5	1979.4
62°	3899.0	3184.3	2185.5	395.6	65.3	4.9	5.9	6.3	84.3	554.5	1944.1
63°	3874.5	3169.4	2111.1	362.2	60.1	5.1	6.1	6.6	78.1	521.0	1918.7
64°	3866.4	3154.5	2053.1	330.3	55.3	5.3	6.4	6.9	72.3	486.6	1900.5
65°	3853.8	3143.3	2023.3	298.9	51.4	5.6	6.7	7.1	67.0	452.1	1885.1
66°	3805.0	3134.9	1987.4	272.0	48.3	5.8	7.0	7.4	62.0	419.0	1841.5
67°	3752.6	3120.7	1943.0	246.7	45.7	6.1	7.3	7.7	57.9	388.1	1811.5
68°	3731.4	3095.7	1898.8	221.1	43.5	6.3	7.6	8.0	54.8	358.7	1777.4
69°	3701.7	3061.6	1851.2	202.0	41.6	6.6	7.9	8.2	52.1	332.6	1749.5
70°	3639.8	3041.2	1816.6	184.9	39.5	6.8	8.2	8.4	49.6	308.1	1725.4
71°	3594.1	3007.4	1761.0	169.7	37.5	7.1	8.5	8.7	47.5	283.8	1676.4
72°	3562.5	2980.6	1718.1	156.5	35.8	7.3	8.8	8.9	45.2	260.6	1637.2
73°	3523.0	2945.2	1671.5	144.7	34.0	7.6	9.1	9.2	43.3	239.1	1604.1
74°	3461.7	2914.5	1631.6	134.0	32.3	7.9	9.4	9.3	41.4	219.2	1562.6
75°	3415.1	2867.5	1583.4	123.5	30.6	8.1	9.7	9.5	39.9	200.4	1511.4
76°	3367.8	2823.9	1522.6	114.3	29.3	8.4	10.0	9.6	38.6	183.1	1473.8
77°	3291.0	2785.6	1484.6	105.5	28.5	8.7	10.3	9.7	37.5	167.5	1429.0
78°	3251.3	2746.1	1444.1	97.8	27.8	9.0	10.7	9.9	36.4	152.6	1379.1
79°	3189.9	2704.6	1397.9	90.2	27.4	9.3	11.0	10.1	35.1	139.4	1339.2
80°	3134.7	2659.3	1358.0	83.2	27.0	9.5	11.3	10.3	34.5	126.7	1297.0
81°	3061.9	2619.5	1307.4	76.7	26.7	9.8	11.6	10.6	33.8	115.3	1254.8
82°	3009.6	2571.3	1257.5	70.8	26.3	10.1	11.9	10.8	32.9	104.4	1205.8
83°	2944.4	2515.8	1212.9	65.4	26.0	10.3	12.3	11.1	32.5	94.8	1162.1
84°	2862.3	2461.0	1157.3	60.3	25.7	10.6	12.6	11.3	32.0	86.6	1121.8
85°	2802.7	2400.6	1113.5	55.5	25.6	10.9	12.9	11.6	31.8	79.0	1080.2
86°	2741.6	2346.9	1065.0	50.9	25.3	11.2	13.2	11.9	31.1	71.6	1037.4
87°	2678.7	2293.5	1019.8	47.0	25.0	11.4	13.5	12.2	30.6	65.0	990.2
88°	2622.5	2237.7	975.1	43.5	24.8	11.7	13.8	12.4	31.6	59.2	946.1
89°	2560.0	2173.9	926.5	40.8	24.6	11.9	14.1	12.6	31.6	54.0	903.4



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CATALOG NUMBER: WXPB120LSFSUNVDBZ-70W-4000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	2502.9	2113.4	882.8	38.7	24.3	12.2	14.4	12.9	31.4	49.6	856.6
91°	2440.0	2056.5	838.5	37.0	24.0	12.5	14.7	13.1	31.2	46.4	814.2
92°	2358.6	1997.5	789.8	35.7	23.9	12.7	15.0	13.4	30.0	44.3	770.6
93°	2289.2	1939.7	748.6	34.9	23.6	12.9	15.2	13.5	29.6	42.8	732.0
94°	2229.4	1877.5	704.2	34.5	23.5	13.2	15.5	13.5	29.4	41.7	691.9
95°	2162.9	1817.6	665.4	34.5	23.2	13.4	15.7	13.6	29.1	41.0	655.9
96°	2089.8	1751.7	626.6	34.7	23.0	13.6	15.9	13.7	28.9	40.7	617.2
97°	2020.0	1687.7	588.8	35.2	22.7	13.8	16.1	13.8	28.5	40.5	577.6
98°	1953.1	1621.9	558.3	35.8	22.4	14.0	16.3	13.9	28.2	40.5	543.5
99°	1896.7	1555.7	525.1	36.3	22.2	14.1	16.5	14.0	27.8	40.7	512.1
100°	1827.2	1493.4	493.9	36.7	22.0	14.3	16.7	14.0	27.5	41.0	483.0
101°	1748.3	1425.3	466.5	37.2	21.7	14.5	16.8	14.2	27.3	41.5	454.4
102°	1674.4	1351.1	436.4	37.6	21.3	14.7	16.9	14.4	27.0	42.1	427.5
103°	1608.6	1286.6	410.0	38.1	21.0	14.8	17.1	14.5	26.6	42.6	401.3
104°	1533.4	1220.7	385.4	38.4	20.6	15.0	17.2	14.7	26.3	43.1	377.3
105°	1455.5	1153.4	358.7	38.8	20.4	15.1	17.3	14.9	25.9	43.6	352.7
106°	1374.4	1094.2	336.6	38.9	20.2	15.3	17.4	15.0	25.8	44.1	325.6
107°	1300.7	1032.5	314.1	39.0	20.0	15.4	17.4	15.1	25.6	44.4	296.1
108°	1217.9	976.7	291.7	39.1	19.8	15.5	17.4	15.3	25.2	44.8	268.2
109°	1130.4	914.4	270.2	39.0	19.6	15.7	17.5	15.4	24.9	45.1	239.7
110°	1052.6	854.1	247.9	39.0	19.4	15.8	17.5	15.5	24.5	45.2	212.7
111°	977.6	794.9	227.2	38.9	19.2	15.9	17.6	15.7	24.2	45.3	190.6
112°	904.7	731.4	209.6	38.8	19.0	16.0	17.6	15.8	23.8	45.2	171.6
113°	841.7	660.4	192.7	38.6	18.8	16.2	17.7	16.0	23.5	45.0	155.1
114°	780.7	589.6	177.5	38.3	18.7	16.3	17.7	16.1	23.1	44.7	139.7
115°	724.7	509.9	162.9	38.2	18.6	16.4	17.8	16.2	22.7	44.4	127.2
116°	661.2	438.9	149.5	38.0	18.5	16.5	17.8	16.4	22.5	44.2	114.4
117°	595.8	379.9	137.0	37.6	18.3	16.6	17.8	16.5	22.2	43.9	103.8
118°	519.3	327.5	126.1	37.3	18.2	16.8	17.8	16.7	21.9	43.5	95.2
119°	452.7	291.5	116.2	37.0	18.1	16.9	17.9	16.8	21.7	43.0	87.4
120°	396.7	265.7	107.5	36.4	18.0	17.0	17.9	16.9	21.5	42.3	80.2
121°	354.2	241.1	100.0	35.7	18.0	17.1	18.0	17.0	21.2	41.3	73.5
122°	323.6	219.7	94.6	35.0	18.0	17.2	18.0	17.1	21.0	40.1	67.9
123°	296.2	202.3	88.8	34.1	17.9	17.4	18.1	17.3	20.7	38.8	61.5
124°	269.7	183.0	81.8	33.2	17.9	17.5	18.1	17.4	20.5	37.3	54.8
125°	245.9	167.8	74.2	32.1	17.8	17.6	18.2	17.5	20.4	35.8	48.0
126°	222.7	149.4	68.3	31.1	17.8	17.7	18.3	17.6	20.2	34.4	42.8
127°	202.3	133.2	63.0	30.0	17.7	17.8	18.3	17.7	20.0	33.0	38.9
128°	183.2	117.8	58.0	28.8	17.6	17.9	18.4	17.8	19.8	31.7	35.3
129°	162.9	102.9	53.2	27.6	17.6	18.0	18.4	17.9	19.5	30.4	32.0
130°	144.7	90.7	48.7	26.4	17.5	18.1	18.5	18.1	19.2	29.0	28.5
131°	127.1	79.2	43.7	25.2	17.5	18.2	18.6	18.2	19.0	27.5	25.4
132°	107.2	68.9	38.9	24.1	17.4	18.3	18.7	18.3	18.7	26.1	22.7
133°	89.1	60.8	34.6	23.0	17.3	18.4	18.8	18.3	18.3	24.5	20.4
134°	75.7	53.3	30.7	22.0	17.2	18.5	18.9	18.4	18.0	22.9	18.4



REPORT NUMBER: P670579

CATALOG NUMBER: WXP120LSFSUNVDBZ-70W-4000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	63.5	46.0	27.7	21.1	17.1	18.6	18.9	18.5	17.5	21.2	17.0
136°	53.8	39.3	25.1	20.2	17.0	18.7	19.0	18.6	17.0	19.5	14.6
137°	45.6	33.9	22.4	19.4	16.9	18.7	19.1	18.6	16.4	17.8	12.2
138°	38.3	29.2	20.0	18.7	16.7	18.7	19.1	18.7	15.8	16.2	10.5
139°	31.8	24.3	18.9	18.1	16.6	18.8	19.2	18.7	15.3	14.8	10.0
140°	25.5	19.2	17.9	17.5	16.4	18.8	19.3	18.8	15.1	13.6	9.6
141°	20.0	15.8	17.1	16.9	16.3	18.8	19.3	18.7	14.9	12.4	9.5
142°	16.1	14.8	16.6	16.2	16.1	18.8	19.4	18.7	14.8	11.4	9.5
143°	12.4	13.4	16.2	15.6	15.9	18.8	19.4	18.6	14.7	10.7	9.7
144°	6.7	13.0	15.9	14.9	15.7	18.7	19.4	18.6	14.6	10.4	10.3
145°	4.9	13.2	15.4	14.3	15.4	18.7	19.3	18.5	14.6	10.2	10.9
146°	4.7	12.8	15.4	13.6	15.3	18.6	19.3	18.4	14.5	10.2	11.5
147°	4.6	11.6	15.5	12.9	15.3	18.5	19.2	18.3	14.4	10.3	12.0
148°	4.6	10.9	15.7	12.3	15.3	18.4	19.2	18.2	14.2	10.4	12.5
149°	4.7	10.3	16.1	11.9	15.3	18.3	19.1	18.0	14.1	10.6	12.8
150°	4.7	10.0	16.5	11.6	15.3	18.2	19.0	17.8	14.0	10.7	13.2
151°	4.5	9.6	17.1	11.6	15.3	18.1	18.9	17.7	13.9	10.8	12.6
152°	4.3	8.5	16.6	11.6	15.3	18.0	18.7	17.5	13.8	10.9	11.7
153°	4.2	7.8	15.5	11.7	15.2	17.8	18.5	17.4	13.8	11.0	11.0
154°	4.5	8.3	14.6	11.8	15.2	17.7	18.3	17.3	13.7	11.1	10.5
155°	4.6	8.9	13.6	11.9	15.2	17.5	18.2	17.1	13.6	11.3	9.9
156°	4.9	9.3	12.4	12.0	15.2	17.4	18.0	16.9	13.6	11.4	9.9
157°	5.2	9.8	11.9	12.1	15.2	17.2	17.7	16.6	13.5	11.5	10.0
158°	5.8	10.1	11.8	12.2	15.1	17.0	17.5	16.3	13.5	11.6	10.1
159°	6.3	10.3	11.6	12.3	15.1	16.8	17.3	16.2	13.4	11.7	10.2
160°	6.7	10.4	11.4	12.4	15.1	16.7	17.0	16.0	13.3	11.8	10.3
161°	7.1	10.4	11.3	12.5	15.0	16.5	16.7	15.7	13.2	11.9	10.4
162°	7.3	10.6	11.2	12.6	15.0	16.3	16.5	15.6	13.1	12.0	10.5
163°	7.7	10.6	11.1	12.6	14.9	16.1	16.2	15.4	13.1	12.1	10.6
164°	7.8	9.9	11.1	12.7	14.8	15.9	16.0	15.1	13.0	12.2	10.7
165°	8.0	9.4	11.0	12.8	14.7	15.7	15.7	14.8	12.9	12.3	10.8
166°	8.0	8.6	11.0	12.9	14.6	15.5	15.5	14.6	12.9	12.3	10.9
167°	8.0	8.7	10.5	12.9	14.5	15.4	15.2	14.4	12.7	12.4	11.0
168°	8.1	8.9	10.3	13.0	14.4	15.2	14.9	14.1	12.6	12.5	11.1
169°	8.5	9.0	10.3	13.0	14.3	14.9	14.7	13.9	12.6	12.6	11.2
170°	8.8	9.2	10.4	13.1	14.2	14.7	14.4	13.7	12.5	12.6	11.3
171°	9.2	9.4	10.4	13.1	14.1	14.5	14.1	13.4	12.3	12.7	11.5
172°	9.5	9.7	10.6	13.2	14.0	14.3	13.8	13.2	12.1	12.8	11.6
173°	9.9	9.9	10.6	13.2	13.8	14.0	13.5	13.0	12.0	12.8	11.7
174°	10.2	10.1	10.7	13.2	13.7	13.8	13.2	12.7	11.8	12.9	11.8
175°	10.6	10.4	10.7	13.2	13.6	13.5	12.9	12.5	11.6	12.9	12.0
176°	10.9	10.6	10.6	13.2	13.4	13.3	12.6	12.2	11.0	13.0	12.2
177°	11.2	10.8	10.5	13.2	13.2	13.0	12.3	11.9	10.8	13.0	12.4
178°	11.3	10.8	10.5	13.2	13.1	12.7	12.0	11.4	10.7	13.1	12.5
179°	11.4	10.8	10.5	13.2	12.9	12.5	11.6	11.0	10.6	13.1	12.7



REPORT NUMBER: P670579
CATALOG NUMBER: WXPM120LSFSUNVDBZ-70W-4000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4



REPORT NUMBER: P670579
CATALOG NUMBER: WXPM120LSFSUNVDBZ-70W-4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	1823.4	1823.4
1°	1945.2	1989.2
2°	2074.9	2155.6
3°	2233.3	2338.3
4°	2392.0	2500.9
5°	2573.9	2673.0
6°	2707.5	2825.7
7°	2819.9	2959.2
8°	2920.3	3081.2
9°	2991.0	3242.8
10°	3109.3	3363.2
11°	3209.3	3466.8
12°	3272.2	3611.8
13°	3421.2	3694.6
14°	3528.0	3753.9
15°	3670.0	3790.6
16°	3710.6	3832.8
17°	3738.6	3829.2
18°	3739.3	3883.1
19°	3661.4	3935.2
20°	3630.8	3916.3
21°	3638.6	3953.5
22°	3679.1	3901.0
23°	3732.1	3900.0
24°	3744.7	3829.3
25°	3734.4	3818.4
26°	3678.9	3769.1
27°	3601.1	3743.4
28°	3527.9	3739.6
29°	3452.4	3685.4
30°	3440.6	3688.2
31°	3449.3	3640.7
32°	3418.5	3640.2
33°	3366.9	3580.3
34°	3317.0	3601.0
35°	3251.7	3551.4
36°	3201.8	3526.5
37°	3140.4	3520.4
38°	3119.4	3521.2
39°	3089.0	3486.3
40°	3089.9	3487.5
41°	3069.6	3461.9
42°	3058.6	3430.2
43°	2993.8	3461.3
44°	2972.2	3431.4



REPORT NUMBER: P670579
CATALOG NUMBER: WXPM120LSFSUNVDBZ-70W-4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	2942.9	3440.8
46°	2909.7	3471.0
47°	2899.7	3450.4
48°	2895.6	3506.7
49°	2877.8	3503.8
50°	2889.9	3571.1
51°	2895.6	3637.8
52°	2894.5	3736.9
53°	2916.9	3785.5
54°	2933.9	3838.0
55°	2964.6	3857.6
56°	2989.6	3881.6
57°	3015.4	3913.6
58°	3033.4	3922.8
59°	3032.2	3917.6
60°	3028.7	3914.4
61°	3028.2	3914.3
62°	3023.2	3899.0
63°	3017.4	3874.5
64°	3010.7	3866.4
65°	2994.3	3853.8
66°	2981.5	3805.0
67°	2970.7	3752.6
68°	2966.3	3731.4
69°	2947.4	3701.7
70°	2927.7	3639.8
71°	2893.5	3594.1
72°	2872.3	3562.5
73°	2837.6	3523.0
74°	2803.6	3461.7
75°	2769.9	3415.1
76°	2733.7	3367.8
77°	2687.7	3291.0
78°	2647.2	3251.3
79°	2606.4	3189.9
80°	2551.3	3134.7
81°	2502.9	3061.9
82°	2454.1	3009.6
83°	2393.2	2944.4
84°	2335.2	2862.3
85°	2275.4	2802.7
86°	2219.6	2741.6
87°	2160.0	2678.7
88°	2103.3	2622.5
89°	2045.5	2560.0



REPORT NUMBER: P670579
CATALOG NUMBER: WXPM120LSFSUNVDBZ-70W-4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	1981.7	2502.9
91°	1926.7	2440.0
92°	1870.7	2358.6
93°	1806.3	2289.2
94°	1745.7	2229.4
95°	1686.8	2162.9
96°	1624.7	2089.8
97°	1565.1	2020.0
98°	1502.4	1953.1
99°	1442.0	1896.7
100°	1378.3	1827.2
101°	1315.7	1748.3
102°	1247.4	1674.4
103°	1181.6	1608.6
104°	1118.4	1533.4
105°	1053.8	1455.5
106°	984.9	1374.4
107°	917.4	1300.7
108°	853.7	1217.9
109°	788.8	1130.4
110°	731.9	1052.6
111°	676.8	977.6
112°	623.3	904.7
113°	569.1	841.7
114°	516.8	780.7
115°	454.4	724.7
116°	391.7	661.2
117°	340.8	595.8
118°	300.1	519.3
119°	268.6	452.7
120°	244.0	396.7
121°	221.1	354.2
122°	200.4	323.6
123°	182.1	296.2
124°	164.3	269.7
125°	147.9	245.9
126°	130.9	222.7
127°	115.7	202.3
128°	100.4	183.2
129°	85.4	162.9
130°	72.7	144.7
131°	61.3	127.1
132°	51.6	107.2
133°	43.8	89.1
134°	36.8	75.7



REPORT NUMBER: P670579
CATALOG NUMBER: WXPM120LSFSUNVDBZ-70W-4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
135°	31.0	63.5
136°	25.6	53.8
137°	21.3	45.6
138°	17.5	38.3
139°	13.4	31.8
140°	8.8	25.5
141°	7.1	20.0
142°	6.9	16.1
143°	7.0	12.4
144°	7.6	6.7
145°	7.9	4.9
146°	7.6	4.7
147°	7.1	4.6
148°	6.8	4.6
149°	6.5	4.7
150°	6.5	4.7
151°	6.1	4.5
152°	5.9	4.3
153°	6.4	4.2
154°	6.7	4.5
155°	7.0	4.6
156°	7.3	4.9
157°	7.7	5.2
158°	7.8	5.8
159°	7.9	6.3
160°	8.0	6.7
161°	8.2	7.1
162°	8.2	7.3
163°	8.1	7.7
164°	8.1	7.8
165°	8.3	8.0
166°	8.5	8.0
167°	8.8	8.0
168°	9.1	8.1
169°	9.4	8.5
170°	9.7	8.8
171°	10.1	9.2
172°	10.4	9.5
173°	10.7	9.9
174°	11.0	10.2
175°	11.3	10.6
176°	11.6	10.9
177°	11.8	11.2
178°	12.0	11.3
179°	12.2	11.4



REPORT NUMBER: P670579
CATALOG NUMBER: WXPM120LSFSUNVDBZ-70W-4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
180°	11.4	11.4

(END OF REPORT)