

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: P670581

Luminaire Tested: WXPM120LSFSUNVDBZ-80W-3000K

Issue Date: 4/4/2023

Test Information

Test Method: LM-79-2019
Report Number: P670581
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: WXP120LSFSUNVDBZ-80W-3000K
Description: WALL PACK
Light Source:
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9613 lumens
Efficiency: N/A
Efficacy: 124.5 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): 77.2
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

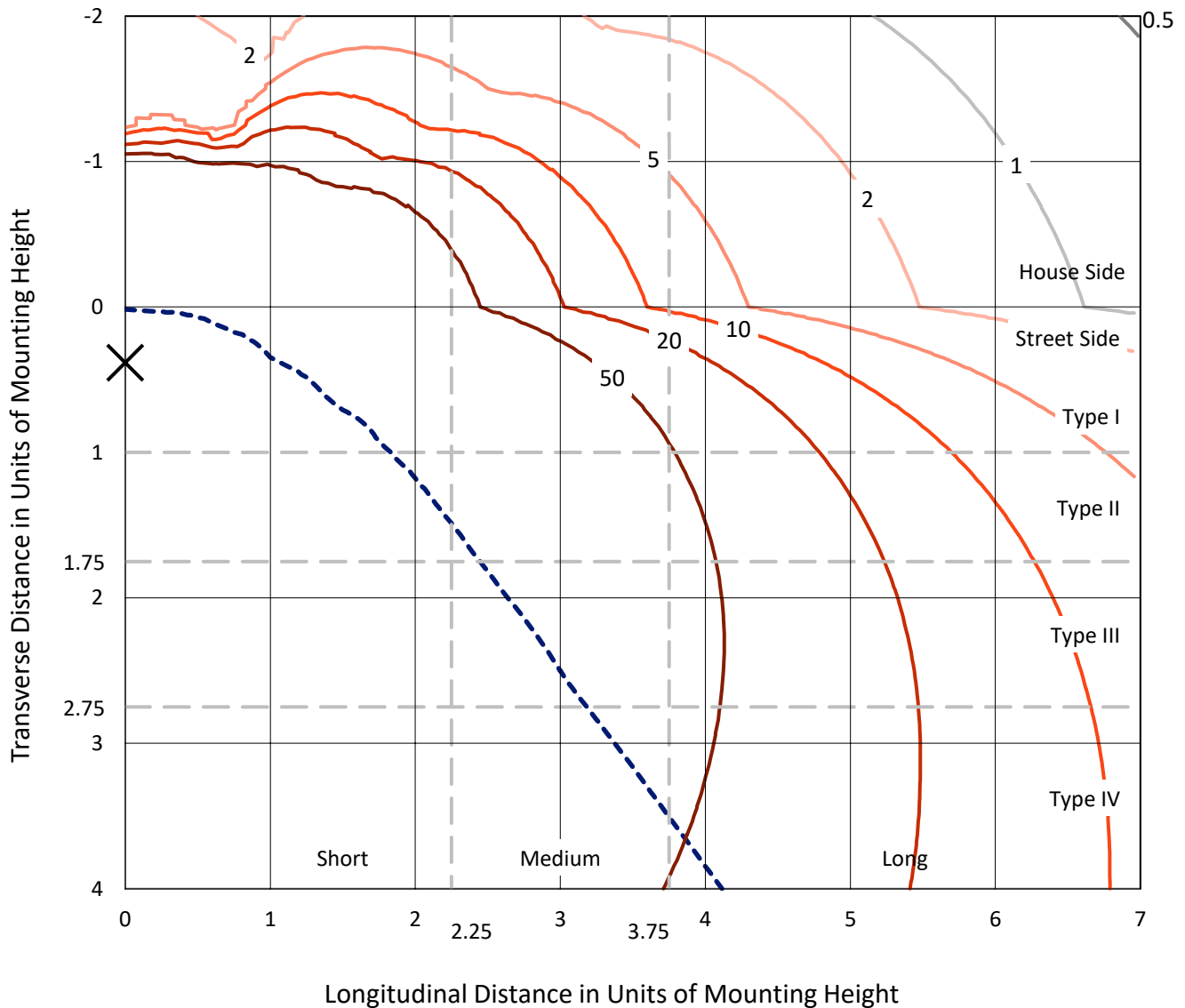




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Iso-Footcandle Lines of Horizontal Illumination

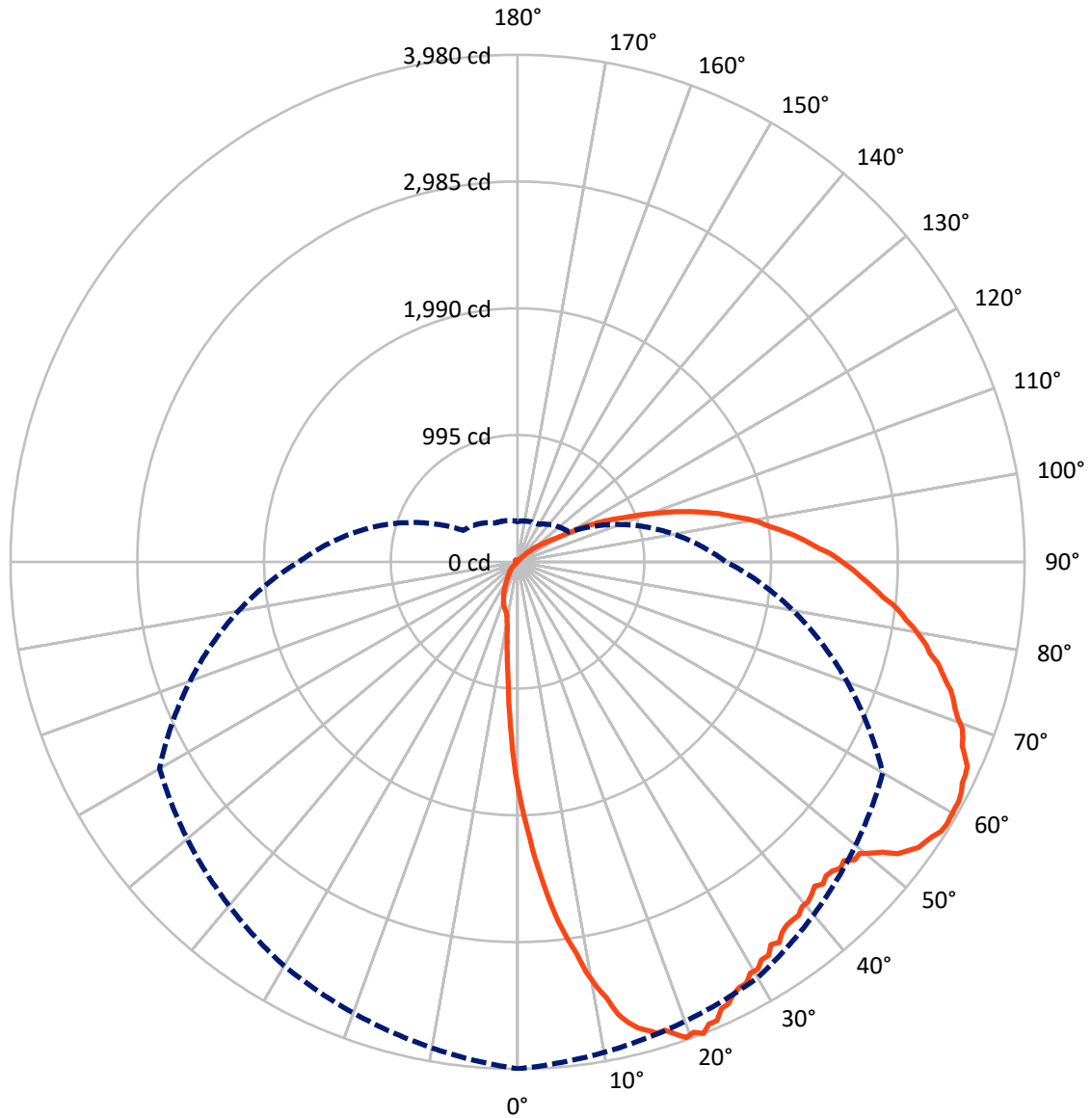
× Max cd
 - - - 1/2 Max cd



Based on 0.5 foot mounting height. Maximum calculated value = 13808.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 21-Deg Vertical

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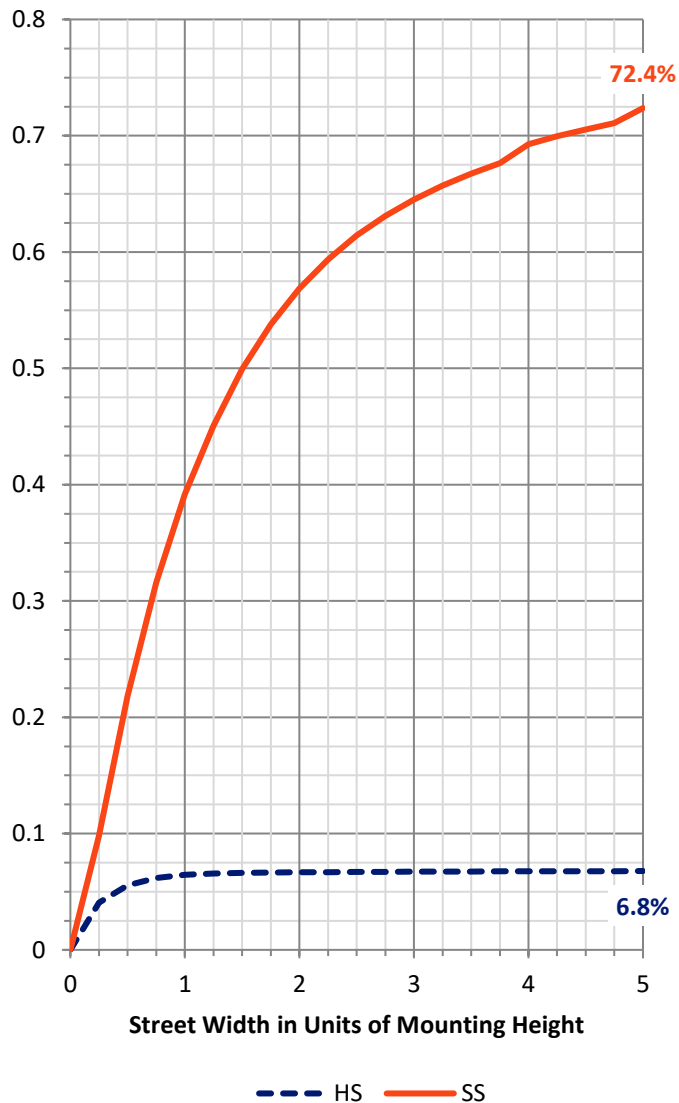
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	662.2	63.5	725.8
	% Fixture	6.9	0.7	7.5
Street Side	Lumens	7600.3	1287.0	8887.2
	% Fixture	79.1	13.4	92.5
Total	Lumens	8262.5	1350.5	9613.0
	% Fixture	86.0	14.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.6	1.8
10°-20°	542.0	5.6
20°-30°	876.4	9.1
30°-40°	1061.6	11.0
40°-50°	1140.0	11.9
50°-60°	1221.0	12.7
60°-70°	1227.6	12.8
70°-80°	1113.2	11.6
80°-90°	907.0	9.4
90°-100°	655.9	6.8
100°-110°	404.9	4.2
110°-120°	183.1	1.9
120°-130°	65.2	0.7
130°-140°	22.0	0.2
140°-150°	8.9	0.1
150°-160°	5.9	0.1
160°-170°	3.5	0.0
170°-180°	1.2	0.0
0°-90°	8262.5	86.0
0°-180°	9613.0	100.0

Coefficient of Utilization

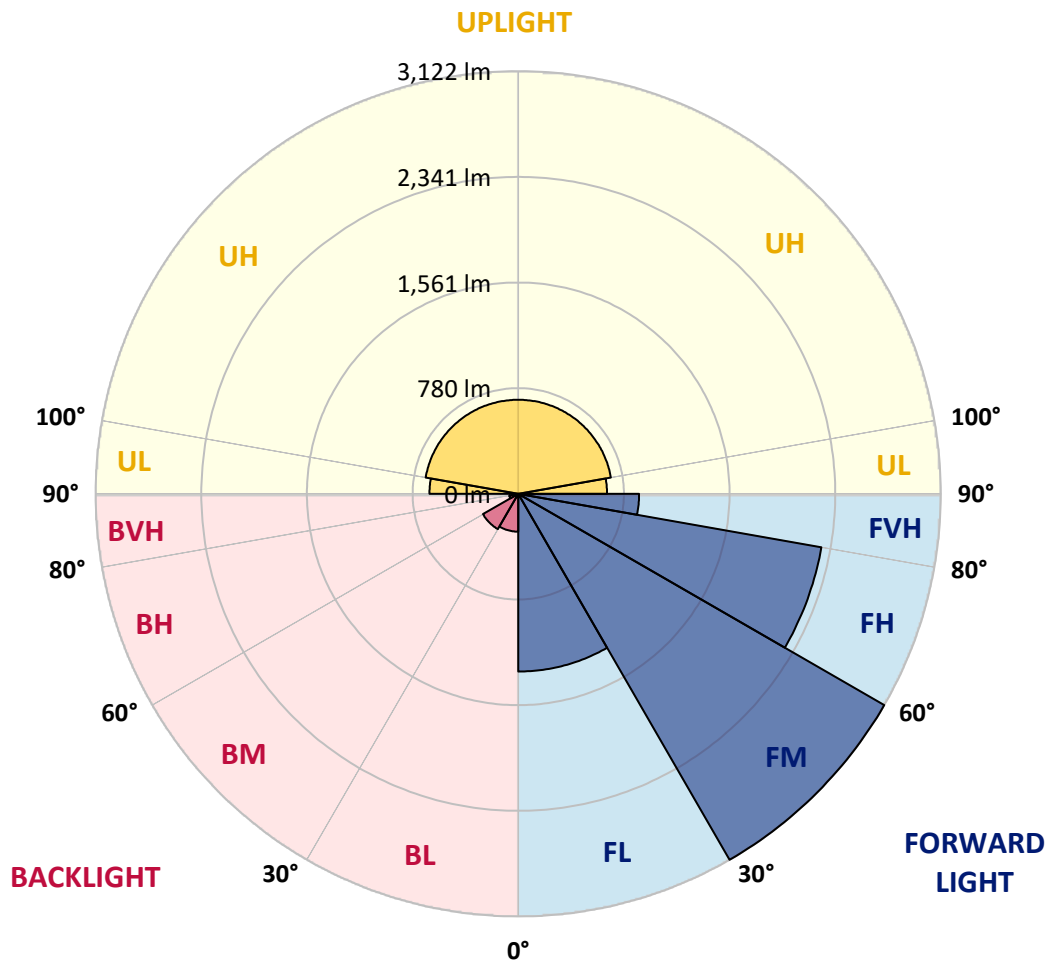


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1312.7	13.7			
FM (30°-60°)	3121.7	32.5			
FH (60°-80°)	2273.8	23.7			G2/5000
FVH (80°-90°)	892.2	9.3			G5
BL (0°-30°)	279.3	2.9	B1/500		
BM (30°-60°)	300.9	3.1	B1/1000		
BH (60°-80°)	67.1	0.7	B0/110		G0/110
BVH (80°-90°)	14.9	0.2			G1/100
UL (90°-100°)	655.9	6.8		U4/1000	
UH (100°-180°)	694.7	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°	1835.8	1835.8	1835.8	1835.8	1835.8	1835.8	1835.8	1835.8	1835.8	1835.8	1835.8
1°	2002.8	1995.0	1934.9	1840.4	1756.2	1690.7	1663.9	1672.2	1728.0	1810.7	1888.2
2°	2170.3	2145.8	2023.1	1837.9	1667.6	1546.3	1477.0	1501.6	1647.1	1829.5	1973.8
3°	2354.2	2318.1	2109.6	1826.3	1582.7	1378.7	1285.1	1336.8	1569.4	1852.3	2079.6
4°	2517.9	2465.2	2178.1	1802.8	1482.8	1219.0	1115.0	1180.4	1475.2	1842.0	2183.8
5°	2691.2	2607.2	2229.5	1782.1	1374.3	1065.3	945.3	1031.2	1360.4	1826.2	2230.4
6°	2844.9	2744.2	2316.1	1781.7	1270.3	932.2	826.0	919.8	1257.2	1839.2	2292.9
7°	2979.3	2861.5	2384.5	1754.2	1182.1	827.1	721.9	823.2	1174.7	1855.4	2394.1
8°	3102.1	2965.3	2450.4	1716.5	1087.6	730.2	629.5	729.9	1094.2	1841.4	2513.3
9°	3264.9	3082.2	2497.3	1705.3	995.6	645.8	553.0	647.0	1009.8	1825.2	2587.8
10°	3386.1	3223.5	2519.7	1720.4	913.5	575.1	497.5	578.6	934.3	1804.5	2638.0
11°	3490.4	3341.9	2657.6	1708.6	852.5	519.5	458.3	525.8	873.8	1820.5	2681.0
12°	3636.4	3463.5	2743.7	1699.3	795.3	479.3	428.4	487.6	815.7	1836.3	2718.9
13°	3719.8	3546.8	2800.7	1702.7	741.7	448.0	407.9	459.0	769.8	1826.5	2798.0
14°	3779.5	3647.2	2847.8	1688.6	692.4	421.9	395.8	434.8	722.8	1802.6	2895.2
15°	3816.4	3676.0	2914.5	1695.0	649.5	400.9	387.3	415.2	677.4	1786.3	2994.7
16°	3858.9	3674.8	3003.6	1700.2	610.4	384.5	378.5	400.8	634.0	1784.0	3007.4
17°	3855.2	3666.4	3099.6	1693.7	575.1	373.3	369.2	390.4	596.8	1771.0	3014.6
18°	3909.5	3724.8	3185.1	1670.1	545.4	364.5	359.3	380.7	565.5	1742.1	3052.0
19°	3962.0	3761.5	3217.8	1668.1	518.2	357.0	344.8	371.4	537.5	1739.8	3111.6
20°	3943.0	3773.4	3256.5	1665.7	491.3	348.8	333.0	361.1	513.8	1738.3	3184.1
21°	3980.4	3769.4	3310.0	1636.3	467.6	340.1	317.0	351.4	494.0	1716.1	3245.5
22°	3927.5	3816.4	3376.3	1611.8	445.9	326.4	302.8	336.5	477.0	1709.8	3244.1
23°	3926.5	3833.9	3416.1	1559.1	425.8	316.0	287.2	325.5	460.0	1699.2	3240.1
24°	3855.4	3888.7	3428.4	1542.3	405.2	302.0	271.9	309.6	442.3	1675.5	3243.6
25°	3844.4	3824.9	3435.2	1495.0	385.3	288.9	254.7	296.3	426.2	1665.8	3276.1
26°	3794.7	3804.7	3433.1	1446.4	366.8	276.2	238.7	283.1	411.0	1656.8	3322.1
27°	3768.9	3716.8	3447.9	1417.6	352.4	261.2	222.0	266.0	395.0	1641.0	3337.0
28°	3765.0	3677.9	3485.3	1408.1	340.1	247.9	206.9	250.1	381.8	1634.4	3342.0
29°	3710.5	3644.8	3432.0	1390.4	329.4	232.7	191.6	236.3	370.6	1623.2	3282.2
30°	3713.3	3585.1	3373.2	1356.0	318.9	218.1	178.4	223.6	361.2	1604.7	3224.9
31°	3665.5	3605.8	3343.0	1323.3	309.1	204.2	165.1	210.9	351.6	1572.4	3208.2
32°	3665.0	3608.3	3287.7	1285.4	300.2	191.5	154.1	198.7	342.9	1547.0	3187.0
33°	3604.7	3573.2	3207.5	1247.8	291.9	179.5	142.6	187.9	334.3	1502.8	3191.7
34°	3625.5	3544.5	3205.1	1213.8	283.1	168.5	131.4	176.8	325.5	1462.8	3146.9
35°	3575.6	3523.1	3201.0	1178.0	274.6	157.7	122.8	166.7	314.6	1433.1	3101.2
36°	3550.5	3493.8	3152.7	1137.8	267.6	147.5	114.3	156.7	306.9	1415.3	3078.8
37°	3544.4	3449.8	3125.4	1115.0	260.5	137.2	105.0	147.2	299.0	1383.2	3031.9
38°	3545.2	3411.5	3147.3	1102.3	251.4	127.2	99.8	137.6	288.2	1353.5	2926.1
39°	3510.0	3379.1	3118.8	1107.4	244.2	117.1	97.1	128.4	278.9	1292.0	2872.4
40°	3511.2	3325.6	3089.3	1080.5	236.3	107.9	91.5	119.4	270.3	1256.0	2795.5
41°	3485.4	3301.2	3110.4	1045.6	227.6	98.8	85.5	110.8	259.8	1217.2	2728.2
42°	3453.6	3266.0	3034.1	988.2	219.1	90.2	79.2	102.3	251.3	1198.5	2677.4
43°	3484.9	3226.4	2906.7	938.6	209.8	81.7	71.8	93.9	242.0	1182.5	2635.5
44°	3454.8	3228.8	2832.1	909.7	202.1	73.9	62.0	85.7	232.5	1163.5	2567.9



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	3464.3	3261.0	2742.2	925.2	193.5	66.3	51.4	77.4	222.9	1146.9	2519.7
46°	3494.7	3268.7	2640.7	908.5	185.7	58.6	42.7	68.9	213.3	1113.8	2515.1
47°	3473.9	3201.9	2595.2	879.8	176.8	51.2	30.4	60.2	204.2	1069.1	2491.4
48°	3530.6	3159.7	2590.2	837.4	168.8	44.5	21.2	51.9	194.9	1029.0	2441.8
49°	3527.6	3143.7	2597.8	801.8	159.8	37.3	4.2	43.3	186.0	1000.0	2405.9
50°	3595.4	3126.2	2577.9	785.8	151.3	30.6	3.1	35.6	177.6	984.7	2370.1
51°	3662.5	3152.4	2584.6	760.6	142.5	22.8	3.3	27.7	169.5	956.3	2293.0
52°	3762.3	3148.2	2598.9	711.0	134.6	15.0	3.5	19.4	161.8	908.4	2259.5
53°	3811.3	3159.7	2554.7	673.5	126.3	3.6	3.7	8.0	153.4	858.6	2203.9
54°	3864.1	3196.1	2486.5	657.6	119.0	3.3	4.0	4.8	145.6	832.8	2143.8
55°	3883.8	3219.0	2435.0	625.6	110.9	3.5	4.2	4.8	137.4	822.9	2136.7
56°	3908.1	3238.7	2361.7	581.6	103.6	3.6	4.4	5.0	129.1	788.4	2139.9
57°	3940.3	3234.8	2315.5	546.0	96.7	3.8	4.6	5.2	120.8	747.0	2133.3
58°	3949.5	3248.7	2271.2	519.9	90.1	4.0	4.9	5.4	113.1	717.4	2120.1
59°	3944.3	3243.2	2261.5	492.4	83.7	4.3	5.1	5.6	105.6	679.7	2086.7
60°	3941.0	3231.8	2265.6	460.7	77.5	4.5	5.4	5.9	98.3	633.5	2048.2
61°	3941.0	3202.1	2240.2	427.5	71.6	4.7	5.6	6.1	91.5	594.5	1992.9
62°	3925.6	3205.9	2200.4	398.3	65.7	4.9	5.9	6.4	84.8	558.3	1957.3
63°	3900.9	3191.0	2125.4	364.7	60.6	5.1	6.2	6.6	78.6	524.5	1931.8
64°	3892.8	3176.0	2067.1	332.6	55.7	5.4	6.5	6.9	72.8	489.9	1913.5
65°	3880.0	3164.7	2037.1	301.0	51.8	5.6	6.7	7.2	67.5	455.2	1897.9
66°	3830.9	3156.3	2001.0	273.9	48.6	5.8	7.0	7.5	62.5	421.9	1854.1
67°	3778.2	3142.0	1956.2	248.3	46.0	6.1	7.3	7.8	58.3	390.8	1823.9
68°	3756.8	3116.8	1911.7	222.6	43.8	6.4	7.6	8.0	55.1	361.1	1789.5
69°	3726.9	3082.5	1863.8	203.4	41.9	6.6	7.9	8.2	52.4	334.8	1761.4
70°	3664.6	3061.9	1828.9	186.2	39.7	6.9	8.2	8.5	49.9	310.2	1737.1
71°	3618.6	3027.9	1773.0	170.9	37.8	7.1	8.5	8.8	47.8	285.7	1687.8
72°	3586.8	3000.9	1729.8	157.6	36.0	7.4	8.8	9.0	45.5	262.4	1648.3
73°	3547.0	2965.2	1682.9	145.7	34.2	7.7	9.1	9.2	43.6	240.8	1615.0
74°	3485.3	2934.3	1642.7	134.9	32.5	7.9	9.5	9.4	41.7	220.7	1573.2
75°	3438.3	2887.0	1594.2	124.3	30.8	8.2	9.8	9.5	40.2	201.7	1521.7
76°	3390.7	2843.1	1533.0	115.1	29.5	8.5	10.1	9.6	38.8	184.4	1483.9
77°	3313.4	2804.6	1494.7	106.2	28.7	8.8	10.4	9.8	37.7	168.7	1438.7
78°	3273.4	2764.8	1454.0	98.4	28.0	9.0	10.7	10.0	36.6	153.7	1388.5
79°	3211.6	2723.0	1407.5	90.8	27.6	9.3	11.0	10.2	35.4	140.3	1348.3
80°	3156.1	2677.4	1367.2	83.8	27.2	9.6	11.4	10.4	34.7	127.6	1305.9
81°	3082.7	2637.3	1316.3	77.2	26.8	9.9	11.7	10.7	34.0	116.1	1263.4
82°	3030.1	2588.8	1266.1	71.2	26.5	10.1	12.0	10.9	33.1	105.1	1214.0
83°	2964.5	2533.0	1221.2	65.8	26.2	10.4	12.3	11.1	32.7	95.5	1170.0
84°	2881.7	2477.7	1165.2	60.7	25.9	10.7	12.7	11.4	32.3	87.2	1129.5
85°	2821.7	2417.0	1121.0	55.8	25.8	11.0	13.0	11.7	32.1	79.6	1087.6
86°	2760.3	2362.9	1072.3	51.3	25.5	11.2	13.3	12.0	31.3	72.1	1044.5
87°	2696.9	2309.1	1026.7	47.4	25.1	11.5	13.6	12.3	30.8	65.5	996.9
88°	2640.4	2252.9	981.8	43.8	24.9	11.8	13.9	12.5	31.8	59.6	952.5
89°	2577.4	2188.7	932.8	41.1	24.8	12.0	14.2	12.7	31.8	54.4	909.6



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	2519.9	2127.8	888.8	39.0	24.5	12.3	14.5	13.0	31.6	50.0	862.4
91°	2456.6	2070.5	844.2	37.3	24.2	12.5	14.8	13.2	31.4	46.7	819.7
92°	2374.7	2011.1	795.2	36.0	24.0	12.8	15.1	13.5	30.2	44.6	775.8
93°	2304.8	1952.9	753.7	35.1	23.8	13.0	15.3	13.6	29.8	43.1	737.0
94°	2244.6	1890.3	709.0	34.7	23.6	13.2	15.6	13.6	29.6	42.0	696.6
95°	2177.6	1829.9	669.9	34.7	23.4	13.5	15.8	13.7	29.3	41.3	660.4
96°	2104.0	1763.6	630.9	34.9	23.1	13.7	16.0	13.8	29.0	41.0	621.4
97°	2033.8	1699.1	592.9	35.4	22.9	13.9	16.2	13.9	28.7	40.8	581.5
98°	1966.4	1632.9	562.1	36.1	22.6	14.1	16.4	14.0	28.4	40.8	547.2
99°	1909.6	1566.3	528.7	36.6	22.3	14.2	16.6	14.1	28.0	41.0	515.6
100°	1839.7	1503.6	497.3	37.0	22.1	14.4	16.8	14.1	27.7	41.3	486.2
101°	1760.2	1435.0	469.6	37.4	21.8	14.6	16.9	14.3	27.5	41.8	457.5
102°	1685.8	1360.3	439.3	37.9	21.4	14.8	17.1	14.5	27.1	42.3	430.4
103°	1619.6	1295.4	412.8	38.3	21.1	14.9	17.2	14.6	26.8	42.9	404.1
104°	1543.8	1229.0	388.0	38.7	20.8	15.1	17.3	14.8	26.5	43.4	379.9
105°	1465.4	1161.3	361.2	39.0	20.5	15.2	17.4	15.0	26.1	43.9	355.1
106°	1383.8	1101.6	338.9	39.2	20.4	15.4	17.5	15.1	25.9	44.4	327.8
107°	1309.5	1039.5	316.3	39.3	20.1	15.5	17.5	15.2	25.8	44.8	298.1
108°	1226.2	983.3	293.7	39.4	19.9	15.6	17.5	15.4	25.4	45.1	270.0
109°	1138.1	920.6	272.1	39.3	19.7	15.8	17.6	15.5	25.1	45.4	241.3
110°	1059.7	859.9	249.6	39.3	19.6	15.9	17.6	15.7	24.7	45.5	214.2
111°	984.2	800.3	228.7	39.2	19.3	16.0	17.7	15.8	24.3	45.6	191.9
112°	910.8	736.4	211.0	39.0	19.1	16.1	17.7	15.9	24.0	45.5	172.8
113°	847.5	664.9	194.0	38.8	18.9	16.3	17.8	16.1	23.6	45.3	156.1
114°	786.1	593.6	178.7	38.6	18.8	16.4	17.8	16.2	23.2	45.0	140.7
115°	729.7	513.4	164.0	38.4	18.7	16.5	17.9	16.4	22.9	44.7	128.1
116°	665.7	441.9	150.5	38.2	18.6	16.6	17.9	16.5	22.6	44.5	115.2
117°	599.9	382.5	138.0	37.9	18.5	16.7	17.9	16.6	22.3	44.2	104.5
118°	522.8	329.7	126.9	37.6	18.4	16.9	18.0	16.8	22.0	43.8	95.8
119°	455.8	293.5	117.0	37.2	18.3	17.0	18.0	16.9	21.8	43.3	88.0
120°	399.4	267.5	108.2	36.7	18.2	17.1	18.0	17.0	21.6	42.6	80.8
121°	356.6	242.8	100.7	36.0	18.1	17.2	18.1	17.1	21.3	41.6	74.0
122°	325.8	221.2	95.2	35.2	18.1	17.4	18.1	17.2	21.1	40.3	68.4
123°	298.2	203.7	89.4	34.4	18.0	17.5	18.2	17.4	20.9	39.0	61.9
124°	271.5	184.3	82.3	33.4	18.0	17.6	18.2	17.5	20.7	37.6	55.1
125°	247.6	169.0	74.7	32.4	18.0	17.7	18.3	17.6	20.5	36.1	48.4
126°	224.2	150.4	68.7	31.3	17.9	17.8	18.4	17.7	20.4	34.7	43.1
127°	203.6	134.1	63.4	30.2	17.8	17.9	18.5	17.8	20.2	33.2	39.2
128°	184.4	118.6	58.4	29.0	17.8	18.0	18.5	18.0	19.9	31.9	35.6
129°	164.1	103.6	53.6	27.8	17.7	18.2	18.6	18.1	19.6	30.6	32.2
130°	145.7	91.3	49.1	26.5	17.7	18.3	18.6	18.2	19.4	29.2	28.7
131°	127.9	79.8	44.0	25.4	17.6	18.4	18.7	18.3	19.1	27.7	25.6
132°	108.0	69.4	39.1	24.3	17.5	18.5	18.8	18.4	18.8	26.2	22.8
133°	89.7	61.2	34.8	23.2	17.4	18.5	18.9	18.5	18.5	24.7	20.5
134°	76.3	53.6	30.9	22.1	17.3	18.6	19.0	18.6	18.1	23.0	18.5



REPORT NUMBER: P670581
 CATALOG NUMBER: WXP120LSFSUNVDBZ-80W-3000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	63.9	46.3	27.9	21.2	17.2	18.7	19.0	18.6	17.6	21.4	17.1
136°	54.2	39.6	25.2	20.4	17.1	18.8	19.1	18.7	17.2	19.6	14.7
137°	45.9	34.1	22.5	19.6	17.0	18.8	19.2	18.8	16.6	17.9	12.3
138°	38.6	29.4	20.2	18.9	16.8	18.9	19.3	18.8	15.9	16.3	10.6
139°	32.0	24.5	19.0	18.2	16.7	18.9	19.3	18.9	15.4	14.9	10.0
140°	25.6	19.3	18.0	17.6	16.6	18.9	19.4	18.9	15.2	13.7	9.7
141°	20.2	15.9	17.2	17.0	16.4	18.9	19.5	18.8	15.0	12.5	9.5
142°	16.2	14.9	16.7	16.3	16.2	18.9	19.5	18.8	14.9	11.5	9.5
143°	12.5	13.5	16.3	15.7	16.1	18.9	19.5	18.8	14.8	10.8	9.8
144°	6.7	13.1	16.0	15.0	15.8	18.8	19.5	18.7	14.7	10.4	10.3
145°	4.9	13.3	15.5	14.4	15.5	18.8	19.5	18.6	14.7	10.3	11.0
146°	4.7	12.9	15.5	13.7	15.4	18.7	19.4	18.5	14.6	10.3	11.6
147°	4.6	11.7	15.6	13.0	15.4	18.7	19.4	18.4	14.5	10.4	12.0
148°	4.6	10.9	15.8	12.4	15.4	18.6	19.3	18.3	14.3	10.5	12.6
149°	4.7	10.4	16.2	11.9	15.4	18.5	19.2	18.1	14.1	10.6	12.9
150°	4.7	10.0	16.6	11.7	15.4	18.4	19.1	18.0	14.1	10.7	13.3
151°	4.5	9.6	17.2	11.6	15.4	18.2	19.0	17.8	14.0	10.9	12.7
152°	4.3	8.5	16.7	11.7	15.4	18.1	18.8	17.6	13.9	11.0	11.8
153°	4.2	7.9	15.6	11.8	15.3	17.9	18.7	17.5	13.9	11.1	11.1
154°	4.5	8.4	14.7	11.9	15.3	17.8	18.5	17.4	13.8	11.2	10.5
155°	4.7	8.9	13.7	12.0	15.3	17.6	18.3	17.2	13.7	11.3	10.0
156°	4.9	9.4	12.4	12.1	15.3	17.5	18.1	17.0	13.7	11.4	10.0
157°	5.3	9.9	12.0	12.2	15.3	17.3	17.9	16.7	13.6	11.6	10.1
158°	5.8	10.2	11.8	12.3	15.2	17.1	17.6	16.5	13.6	11.7	10.1
159°	6.3	10.3	11.6	12.4	15.2	17.0	17.4	16.3	13.5	11.8	10.2
160°	6.8	10.5	11.5	12.5	15.2	16.8	17.1	16.1	13.4	11.9	10.3
161°	7.1	10.5	11.4	12.6	15.1	16.6	16.9	15.9	13.3	12.0	10.4
162°	7.4	10.7	11.2	12.7	15.1	16.4	16.6	15.7	13.2	12.1	10.6
163°	7.8	10.6	11.2	12.7	15.0	16.2	16.3	15.5	13.2	12.2	10.7
164°	7.8	10.0	11.1	12.8	14.9	16.0	16.1	15.2	13.1	12.2	10.8
165°	8.0	9.4	11.1	12.9	14.8	15.8	15.8	14.9	13.0	12.3	10.9
166°	8.0	8.7	11.0	12.9	14.7	15.7	15.6	14.7	13.0	12.4	11.0
167°	8.1	8.8	10.6	13.0	14.6	15.5	15.3	14.5	12.8	12.5	11.1
168°	8.2	8.9	10.4	13.1	14.5	15.3	15.0	14.2	12.7	12.6	11.2
169°	8.5	9.1	10.4	13.1	14.4	15.0	14.8	14.0	12.6	12.7	11.3
170°	8.9	9.3	10.4	13.2	14.3	14.8	14.5	13.8	12.5	12.7	11.4
171°	9.2	9.5	10.5	13.2	14.2	14.6	14.2	13.5	12.4	12.8	11.5
172°	9.6	9.7	10.6	13.2	14.1	14.4	13.9	13.3	12.2	12.9	11.7
173°	10.0	10.0	10.7	13.3	13.9	14.1	13.6	13.1	12.1	12.9	11.8
174°	10.3	10.2	10.8	13.3	13.8	13.9	13.3	12.8	11.9	13.0	11.9
175°	10.6	10.5	10.8	13.3	13.6	13.6	13.0	12.6	11.7	13.0	12.1
176°	11.0	10.7	10.7	13.3	13.5	13.4	12.6	12.3	11.1	13.1	12.3
177°	11.3	10.9	10.6	13.3	13.3	13.1	12.4	12.0	10.9	13.1	12.4
178°	11.3	10.9	10.6	13.3	13.1	12.8	12.0	11.5	10.8	13.2	12.6
179°	11.4	10.9	10.6	13.3	13.0	12.5	11.7	11.1	10.7	13.2	12.7



REPORT NUMBER: P670581
CATALOG NUMBER: WXPM120LSFSUNVDBZ-80W-3000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5



REPORT NUMBER: P670581
CATALOG NUMBER: WXPM120LSFSUNVDBZ-80W-3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	1835.8	1835.8
1°	1958.4	2002.8
2°	2089.0	2170.3
3°	2248.5	2354.2
4°	2408.3	2517.9
5°	2591.4	2691.2
6°	2725.9	2844.9
7°	2839.0	2979.3
8°	2940.2	3102.1
9°	3011.3	3264.9
10°	3130.5	3386.1
11°	3231.1	3490.4
12°	3294.5	3636.4
13°	3444.5	3719.8
14°	3552.0	3779.5
15°	3695.0	3816.4
16°	3735.9	3858.9
17°	3764.1	3855.2
18°	3764.8	3909.5
19°	3686.4	3962.0
20°	3655.6	3943.0
21°	3663.4	3980.4
22°	3704.2	3927.5
23°	3757.5	3926.5
24°	3770.2	3855.4
25°	3759.8	3844.4
26°	3703.9	3794.7
27°	3625.6	3768.9
28°	3552.0	3765.0
29°	3475.9	3710.5
30°	3464.0	3713.3
31°	3472.8	3665.5
32°	3441.8	3665.0
33°	3389.8	3604.7
34°	3339.6	3625.5
35°	3273.8	3575.6
36°	3223.6	3550.5
37°	3161.8	3544.4
38°	3140.6	3545.2
39°	3110.0	3510.0
40°	3110.9	3511.2
41°	3090.5	3485.4
42°	3079.5	3453.6
43°	3014.2	3484.9
44°	2992.5	3454.8



REPORT NUMBER: P670581
CATALOG NUMBER: WXPM120LSFSUNVDBZ-80W-3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	2962.9	3464.3
46°	2929.5	3494.7
47°	2919.4	3473.9
48°	2915.4	3530.6
49°	2897.4	3527.6
50°	2909.6	3595.4
51°	2915.4	3662.5
52°	2914.2	3762.3
53°	2936.7	3811.3
54°	2953.9	3864.1
55°	2984.8	3883.8
56°	3009.9	3908.1
57°	3036.0	3940.3
58°	3054.0	3949.5
59°	3052.9	3944.3
60°	3049.3	3941.0
61°	3048.8	3941.0
62°	3043.8	3925.6
63°	3038.0	3900.9
64°	3031.2	3892.8
65°	3014.7	3880.0
66°	3001.8	3830.9
67°	2990.9	3778.2
68°	2986.5	3756.8
69°	2967.5	3726.9
70°	2947.6	3664.6
71°	2913.2	3618.6
72°	2891.9	3586.8
73°	2856.9	3547.0
74°	2822.7	3485.3
75°	2788.8	3438.3
76°	2752.3	3390.7
77°	2706.0	3313.4
78°	2665.2	3273.4
79°	2624.1	3211.6
80°	2568.7	3156.1
81°	2520.0	3082.7
82°	2470.8	3030.1
83°	2409.5	2964.5
84°	2351.1	2881.7
85°	2290.9	2821.7
86°	2234.7	2760.3
87°	2174.7	2696.9
88°	2117.6	2640.4
89°	2059.5	2577.4



REPORT NUMBER: P670581
CATALOG NUMBER: WXPM120LSFSUNVDBZ-80W-3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	1995.2	2519.9
91°	1939.8	2456.6
92°	1883.4	2374.7
93°	1818.6	2304.8
94°	1757.5	2244.6
95°	1698.2	2177.6
96°	1635.8	2104.0
97°	1575.7	2033.8
98°	1512.6	1966.4
99°	1451.9	1909.6
100°	1387.7	1839.7
101°	1324.6	1760.2
102°	1255.9	1685.8
103°	1189.6	1619.6
104°	1126.0	1543.8
105°	1061.0	1465.4
106°	991.6	1383.8
107°	923.7	1309.5
108°	859.5	1226.2
109°	794.2	1138.1
110°	736.9	1059.7
111°	681.4	984.2
112°	627.5	910.8
113°	573.0	847.5
114°	520.3	786.1
115°	457.5	729.7
116°	394.3	665.7
117°	343.1	599.9
118°	302.1	522.8
119°	270.4	455.8
120°	245.6	399.4
121°	222.6	356.6
122°	201.7	325.8
123°	183.3	298.2
124°	165.4	271.5
125°	148.9	247.6
126°	131.8	224.2
127°	116.5	203.6
128°	101.1	184.4
129°	86.0	164.1
130°	73.2	145.7
131°	61.8	127.9
132°	51.9	108.0
133°	44.1	89.7
134°	37.1	76.3



REPORT NUMBER: P670581
CATALOG NUMBER: WXPM120LSFSUNVDBZ-80W-3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
135°	31.2	63.9
136°	25.8	54.2
137°	21.4	45.9
138°	17.7	38.6
139°	13.5	32.0
140°	8.8	25.6
141°	7.1	20.2
142°	7.0	16.2
143°	7.1	12.5
144°	7.6	6.7
145°	7.9	4.9
146°	7.6	4.7
147°	7.2	4.6
148°	6.8	4.6
149°	6.6	4.7
150°	6.5	4.7
151°	6.1	4.5
152°	5.9	4.3
153°	6.5	4.2
154°	6.8	4.5
155°	7.1	4.7
156°	7.4	4.9
157°	7.7	5.3
158°	7.9	5.8
159°	8.0	6.3
160°	8.1	6.8
161°	8.2	7.1
162°	8.2	7.4
163°	8.2	7.8
164°	8.2	7.8
165°	8.3	8.0
166°	8.6	8.0
167°	8.9	8.1
168°	9.2	8.2
169°	9.5	8.5
170°	9.8	8.9
171°	10.1	9.2
172°	10.5	9.6
173°	10.8	10.0
174°	11.1	10.3
175°	11.4	10.6
176°	11.7	11.0
177°	11.9	11.3
178°	12.1	11.3
179°	12.2	11.4



REPORT NUMBER: P670581
CATALOG NUMBER: WXPM120LSFSUNVDBZ-80W-3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
180°	11.5	11.5

(END OF REPORT)