

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: P670583

Luminaire Tested: WXPM120LSFSUNVDBZ-80W-5000K

Issue Date: 4/4/2023

Test Information

Test Method: LM-79-2019
Report Number: P670583
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-80W-5000K
Description: WALL PACK
Light Source:
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10622 lumens
Efficiency: N/A
Efficacy: 137.8 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): 77.1
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

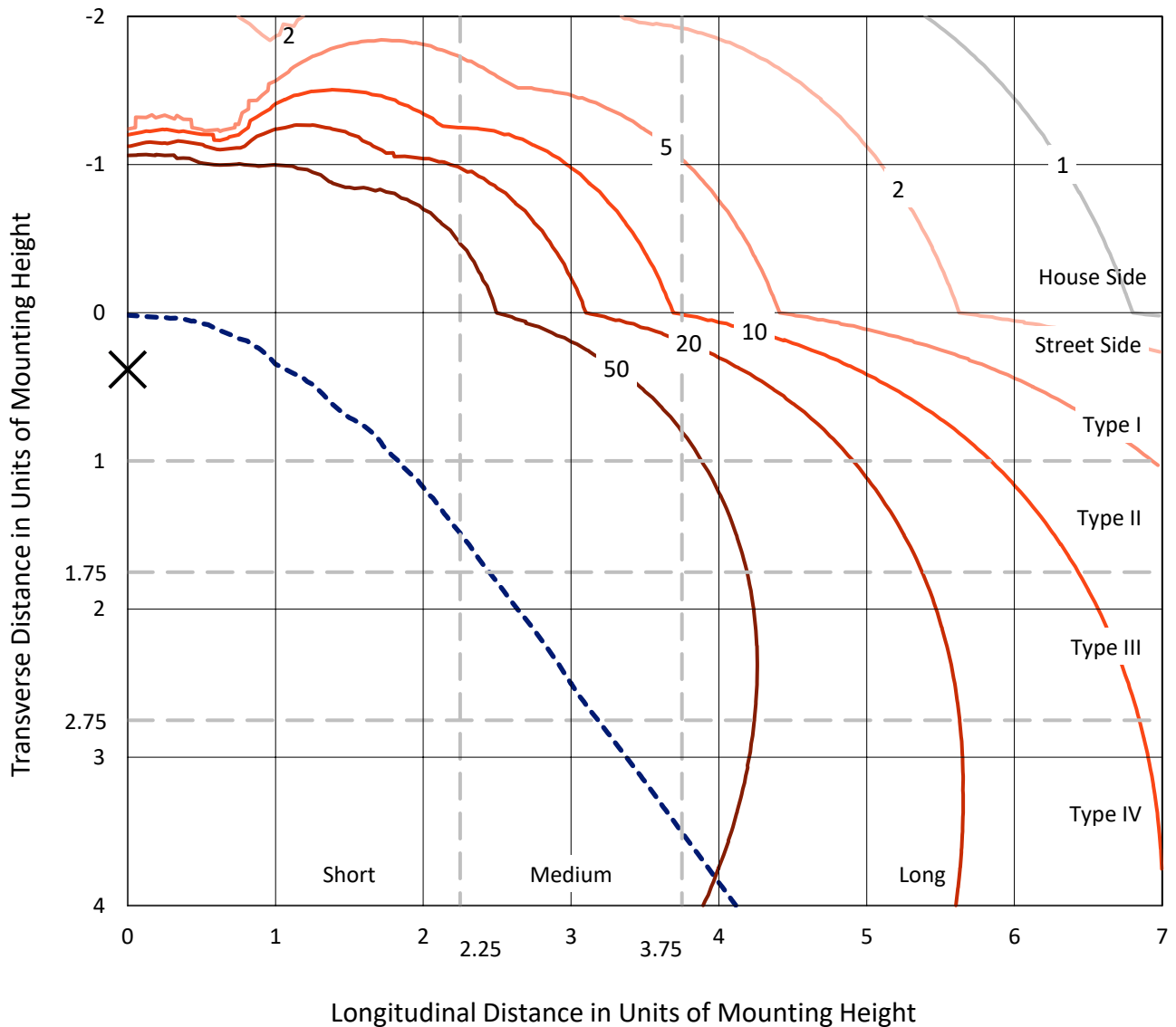




REPORT NUMBER: P670583
 CATALOG NUMBER: WXPM120LSFSUNVDBZ-80W-5000K

Iso-Footcandle Lines of Horizontal Illumination

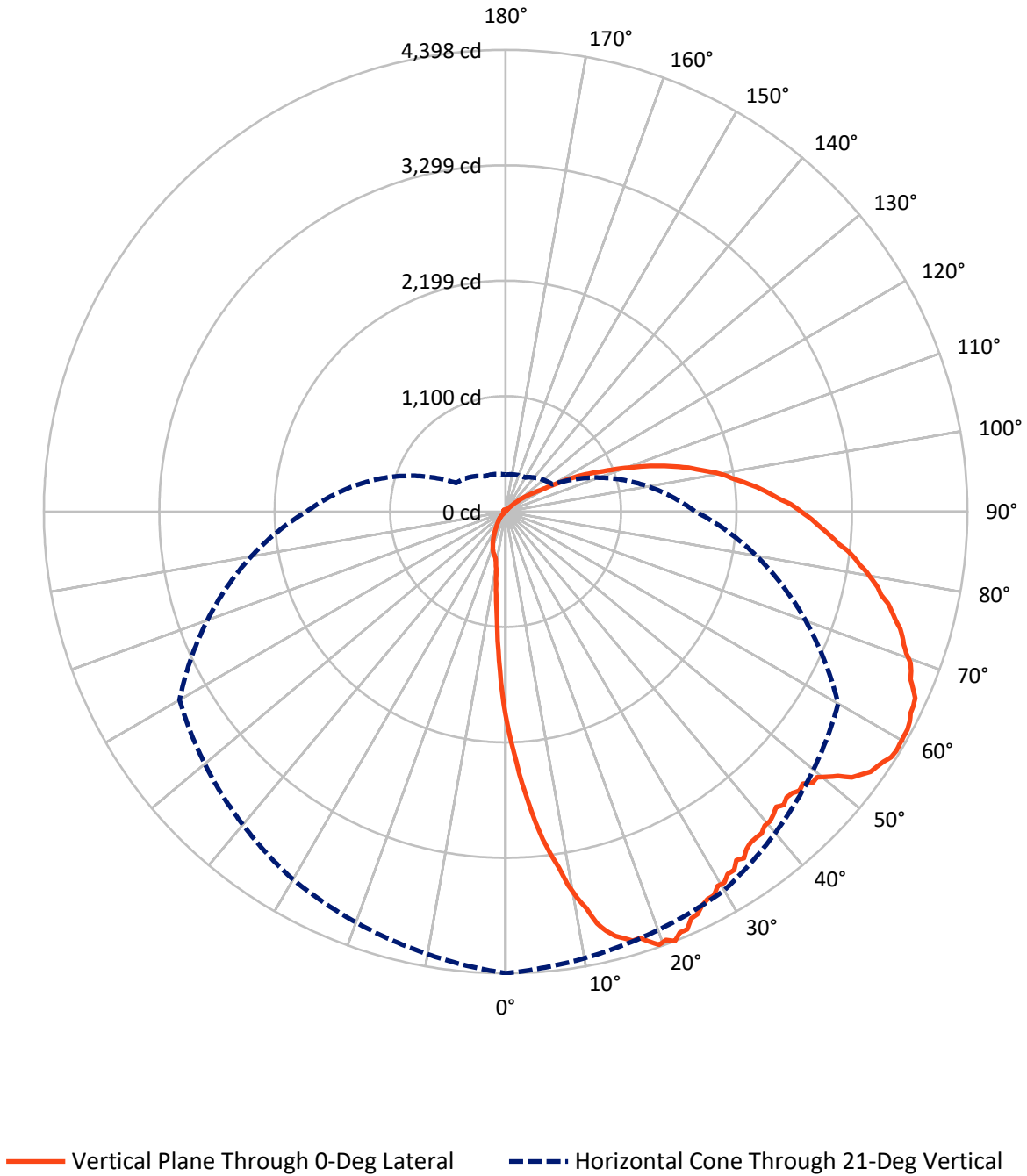
× Max cd
 - - - 1/2 Max cd



Based on 0.5 foot mounting height. Maximum calculated value = 15258.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P670583
CATALOG NUMBER: WXPM120LSFSUNVDBZ-80W-5000K

Luminous Intensity Polar Plot



REPORT NUMBER: P670583
 CATALOG NUMBER: WXP120LSFSUNVDBZ-80W-5000K

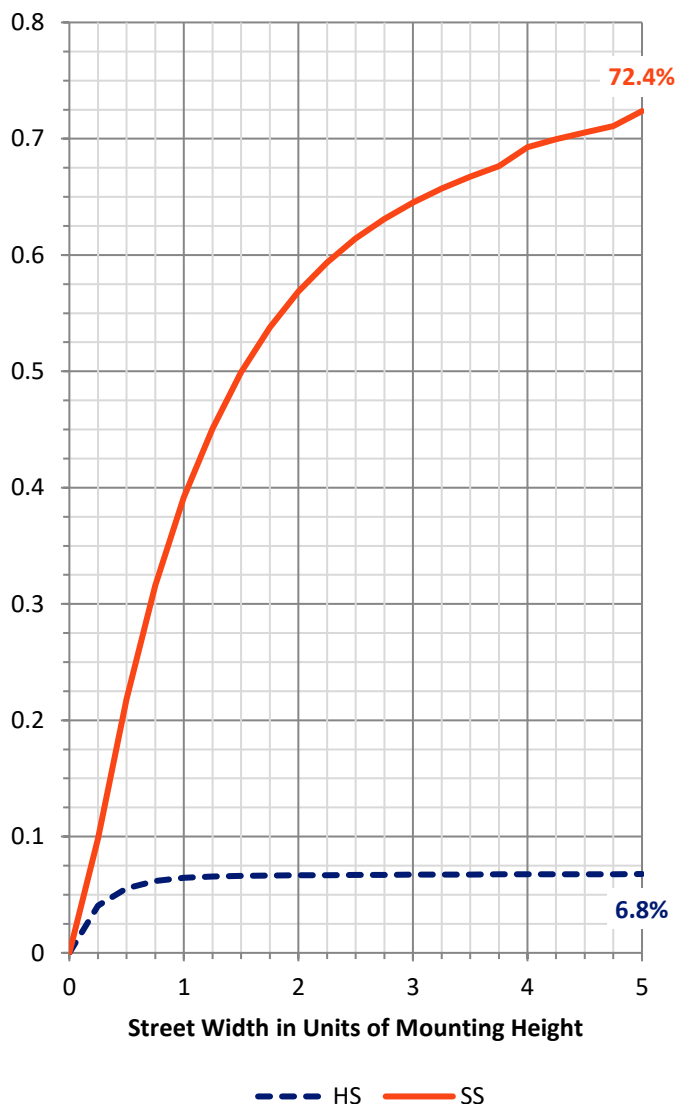
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	731.7	70.2	801.9
	% Fixture	6.9	0.7	7.5
Street Side	Lumens	8398.0	1422.1	9820.1
	% Fixture	79.1	13.4	92.5
Total	Lumens	9129.7	1492.3	10622.0
	% Fixture	86.0	14.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.8	1.8
10°-20°	598.9	5.6
20°-30°	968.4	9.1
30°-40°	1173.0	11.0
40°-50°	1259.7	11.9
50°-60°	1349.2	12.7
60°-70°	1356.5	12.8
70°-80°	1230.1	11.6
80°-90°	1002.2	9.4
90°-100°	724.7	6.8
100°-110°	447.4	4.2
110°-120°	202.3	1.9
120°-130°	72.1	0.7
130°-140°	24.3	0.2
140°-150°	9.8	0.1
150°-160°	6.5	0.1
160°-170°	3.9	0.0
170°-180°	1.3	0.0
0°-90°	9129.7	86.0
0°-180°	10622.0	100.0

Coefficient of Utilization

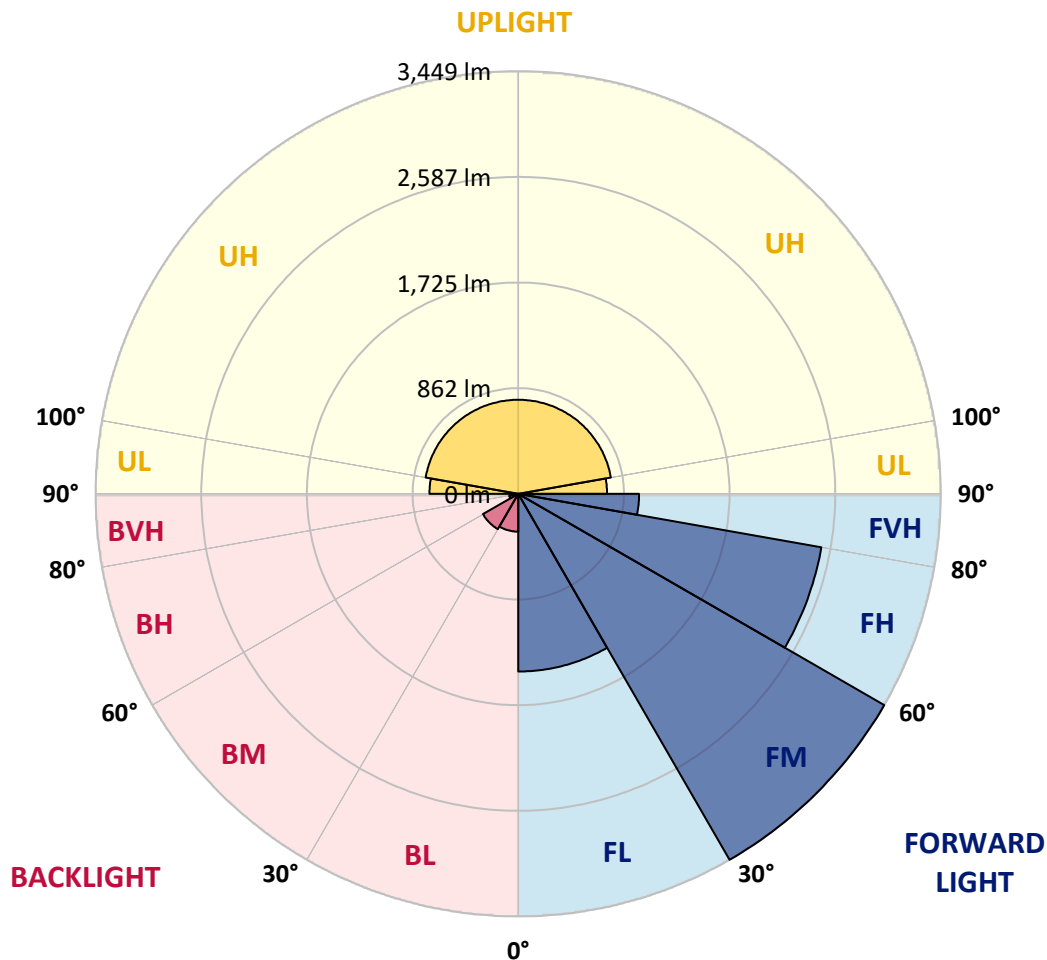


REPORT NUMBER: P670583
 CATALOG NUMBER: WXP120LSFSUNVDBZ-80W-5000K

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1450.5	13.7			
FM (30°-60°)	3449.3	32.5			
FH (60°-80°)	2512.4	23.7			G2/5000
FVH (80°-90°)	985.8	9.3			G5
BL (0°-30°)	308.6	2.9	B1/500		
BM (30°-60°)	332.5	3.1	B1/1000		
BH (60°-80°)	74.1	0.7	B0/110		G0/110
BVH (80°-90°)	16.4	0.2			G1/100
UL (90°-100°)	724.7	6.8		U4/1000	
UH (100°-180°)	767.6	7.2		U4/1000	

BUG Rating: B1-U4-G5
 Type IV Short





REPORT NUMBER: P670583

CATALOG NUMBER: WXP120LSFSUNVDBZ-80W-5000K

CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	2028.5	2028.5	2028.5	2028.5	2028.5	2028.5	2028.5	2028.5	2028.5	2028.5	2028.5
1°	2213.0	2204.4	2137.9	2033.6	1940.6	1868.1	1838.6	1847.7	1909.4	2000.8	2086.4
2°	2398.1	2371.0	2235.4	2030.8	1842.7	1708.6	1632.0	1659.2	1820.0	2021.6	2181.0
3°	2601.3	2561.4	2331.1	2018.0	1748.9	1523.5	1420.0	1477.1	1734.1	2046.7	2297.9
4°	2782.2	2724.0	2406.7	1992.0	1638.4	1346.9	1232.0	1304.2	1630.0	2035.3	2413.0
5°	2973.7	2880.9	2463.5	1969.1	1518.6	1177.1	1044.5	1139.4	1503.2	2017.9	2464.6
6°	3143.5	3032.3	2559.2	1968.7	1403.6	1030.1	912.7	1016.4	1389.2	2032.2	2533.6
7°	3292.0	3161.8	2634.8	1938.3	1306.2	913.9	797.7	909.6	1298.0	2050.2	2645.4
8°	3427.7	3276.5	2707.6	1896.7	1201.7	806.9	695.6	806.5	1209.1	2034.7	2777.0
9°	3607.6	3405.8	2759.4	1884.2	1100.1	713.6	611.0	714.9	1115.8	2016.8	2859.4
10°	3741.5	3561.9	2784.2	1901.0	1009.4	635.5	549.8	639.3	1032.3	1993.9	2914.9
11°	3856.8	3692.6	2936.5	1887.9	942.0	574.0	506.4	581.0	965.6	2011.6	2962.4
12°	4018.1	3827.0	3031.7	1877.6	878.7	529.6	473.4	538.8	901.4	2029.0	3004.3
13°	4110.2	3919.1	3094.6	1881.5	819.5	495.0	450.7	507.2	850.6	2018.2	3091.6
14°	4176.2	4030.0	3146.7	1865.8	765.0	466.2	437.3	480.4	798.7	1991.8	3199.0
15°	4217.0	4061.9	3220.4	1872.9	717.7	443.0	427.9	458.8	748.5	1973.8	3309.0
16°	4264.0	4060.6	3318.8	1878.6	674.5	424.9	418.2	442.8	700.5	1971.2	3323.1
17°	4259.9	4051.3	3425.0	1871.5	635.5	412.5	408.0	431.3	659.5	1956.9	3331.0
18°	4319.8	4115.7	3519.4	1845.4	602.7	402.8	397.0	420.6	624.9	1925.0	3372.3
19°	4377.9	4156.4	3555.6	1843.2	572.6	394.4	381.0	410.3	593.9	1922.4	3438.2
20°	4356.9	4169.5	3598.4	1840.5	542.8	385.4	368.0	399.0	567.7	1920.7	3518.3
21°	4398.2	4165.1	3657.4	1808.1	516.7	375.8	350.3	388.3	545.8	1896.2	3586.1
22°	4339.7	4217.0	3730.7	1781.0	492.7	360.7	334.6	371.8	527.1	1889.3	3584.7
23°	4338.7	4236.3	3774.6	1722.8	470.4	349.2	317.3	359.6	508.2	1877.6	3580.1
24°	4260.1	4296.9	3788.3	1704.1	447.7	333.7	300.4	342.1	488.7	1851.3	3584.0
25°	4247.9	4226.3	3795.8	1651.9	425.8	319.2	281.4	327.4	470.9	1840.6	3620.0
26°	4193.0	4204.0	3793.5	1598.2	405.4	305.2	263.8	312.8	454.1	1830.7	3670.8
27°	4164.5	4107.0	3809.8	1566.4	389.4	288.6	245.3	294.0	436.5	1813.3	3687.3
28°	4160.2	4064.0	3851.1	1555.9	375.8	273.9	228.6	276.3	421.9	1806.0	3692.8
29°	4100.0	4027.3	3792.2	1536.3	364.0	257.2	211.8	261.1	409.5	1793.6	3626.7
30°	4103.1	3961.4	3727.3	1498.3	352.4	241.0	197.1	247.1	399.1	1773.2	3563.4
31°	4050.2	3984.3	3693.9	1462.2	341.5	225.6	182.4	233.0	388.5	1737.5	3544.9
32°	4049.7	3987.0	3632.7	1420.3	331.7	211.6	170.3	219.6	378.9	1709.4	3521.6
33°	3983.1	3948.3	3544.2	1378.8	322.5	198.4	157.6	207.6	369.4	1660.5	3526.7
34°	4006.0	3916.5	3541.5	1341.2	312.8	186.1	145.2	195.4	359.7	1616.3	3477.2
35°	3950.9	3892.9	3537.0	1301.6	303.5	174.2	135.7	184.2	347.6	1583.5	3426.8
36°	3923.2	3860.6	3483.6	1257.3	295.6	163.0	126.3	173.1	339.1	1563.9	3402.0
37°	3916.4	3811.9	3453.4	1232.1	287.8	151.6	116.0	162.6	330.4	1528.4	3350.2
38°	3917.3	3769.6	3477.6	1218.0	277.8	140.6	110.3	152.0	318.5	1495.5	3233.2
39°	3878.5	3733.7	3446.1	1223.6	269.8	129.3	107.3	141.9	308.2	1427.6	3173.9
40°	3879.8	3674.7	3413.6	1193.9	261.2	119.2	101.1	131.9	298.7	1387.8	3088.9
41°	3851.3	3647.7	3436.9	1155.3	251.5	109.2	94.5	122.4	287.1	1345.0	3014.6
42°	3816.0	3608.8	3352.6	1091.9	242.1	99.6	87.5	113.0	277.7	1324.3	2958.4
43°	3850.7	3565.0	3211.8	1037.1	231.8	90.3	79.4	103.7	267.4	1306.7	2912.1
44°	3817.4	3567.7	3129.4	1005.2	223.4	81.6	68.5	94.7	257.0	1285.6	2837.5



REPORT NUMBER: P670583

CATALOG NUMBER: WXP120LSFSUNVDBZ-80W-5000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	3827.9	3603.3	3030.0	1022.3	213.8	73.2	56.8	85.6	246.3	1267.3	2784.2
46°	3861.5	3611.8	2917.9	1003.8	205.2	64.8	47.2	76.1	235.6	1230.7	2779.1
47°	3838.5	3538.0	2867.6	972.2	195.3	56.6	33.6	66.5	225.6	1181.3	2752.9
48°	3901.2	3491.3	2862.0	925.3	186.5	49.2	23.5	57.4	215.4	1137.1	2698.1
49°	3897.9	3473.6	2870.5	885.9	176.6	41.2	4.7	47.9	205.6	1104.9	2658.4
50°	3972.8	3454.4	2848.5	868.3	167.2	33.8	3.4	39.4	196.2	1088.1	2618.9
51°	4046.9	3483.2	2855.9	840.5	157.4	25.2	3.7	30.6	187.3	1056.7	2533.7
52°	4157.2	3478.7	2871.7	785.6	148.7	16.5	3.9	21.5	178.8	1003.8	2496.6
53°	4211.3	3491.4	2822.8	744.2	139.5	4.0	4.1	8.8	169.5	948.8	2435.2
54°	4269.7	3531.5	2747.5	726.7	131.5	3.6	4.4	5.3	160.9	920.2	2368.9
55°	4291.5	3556.8	2690.6	691.3	122.5	3.8	4.6	5.3	151.8	909.3	2360.9
56°	4318.3	3578.6	2609.5	642.6	114.5	4.0	4.9	5.5	142.7	871.1	2364.5
57°	4353.8	3574.3	2558.5	603.3	106.8	4.2	5.1	5.8	133.4	825.4	2357.2
58°	4364.1	3589.7	2509.6	574.5	99.5	4.5	5.4	6.0	124.9	792.6	2342.7
59°	4358.2	3583.6	2498.9	544.1	92.5	4.7	5.7	6.2	116.7	751.1	2305.7
60°	4354.7	3571.0	2503.4	509.0	85.6	4.9	6.0	6.5	108.6	700.0	2263.1
61°	4354.6	3538.2	2475.3	472.4	79.1	5.2	6.2	6.8	101.1	656.9	2202.1
62°	4337.6	3542.4	2431.3	440.1	72.6	5.4	6.5	7.0	93.8	616.9	2162.8
63°	4310.4	3525.9	2348.5	403.0	66.9	5.7	6.8	7.3	86.9	579.6	2134.6
64°	4301.4	3509.4	2284.1	367.5	61.5	5.9	7.1	7.6	80.4	541.4	2114.3
65°	4287.2	3496.9	2250.9	332.6	57.2	6.2	7.4	7.9	74.6	503.0	2097.2
66°	4233.0	3487.6	2211.0	302.6	53.7	6.5	7.8	8.3	69.0	466.2	2048.7
67°	4174.8	3471.8	2161.6	274.4	50.9	6.7	8.1	8.6	64.4	431.8	2015.3
68°	4151.2	3443.9	2112.4	245.9	48.3	7.0	8.4	8.9	60.9	399.0	1977.3
69°	4118.1	3406.0	2059.5	224.7	46.3	7.3	8.7	9.1	57.9	370.0	1946.2
70°	4049.2	3383.3	2020.9	205.7	43.9	7.6	9.1	9.4	55.2	342.7	1919.5
71°	3998.4	3345.7	1959.0	188.8	41.7	7.9	9.4	9.7	52.8	315.7	1865.0
72°	3963.2	3315.9	1911.4	174.1	39.8	8.2	9.8	9.9	50.3	289.9	1821.3
73°	3919.3	3276.5	1859.5	161.0	37.8	8.5	10.1	10.2	48.2	266.0	1784.6
74°	3851.1	3242.3	1815.1	149.1	35.9	8.8	10.4	10.4	46.0	243.9	1738.4
75°	3799.2	3190.0	1761.5	137.4	34.0	9.1	10.8	10.5	44.4	222.9	1681.4
76°	3746.6	3141.5	1693.9	127.2	32.6	9.4	11.2	10.7	42.9	203.7	1639.6
77°	3661.2	3099.0	1651.6	117.4	31.7	9.7	11.5	10.8	41.7	186.4	1589.7
78°	3617.0	3055.0	1606.6	108.8	30.9	10.0	11.9	11.1	40.5	169.8	1534.2
79°	3548.7	3008.8	1555.2	100.4	30.5	10.3	12.2	11.3	39.1	155.1	1489.9
80°	3487.3	2958.5	1510.7	92.6	30.0	10.6	12.6	11.5	38.4	141.0	1442.9
81°	3406.3	2914.1	1454.4	85.3	29.7	10.9	12.9	11.8	37.6	128.2	1396.0
82°	3348.2	2860.6	1399.0	78.7	29.3	11.2	13.3	12.0	36.6	116.1	1341.4
83°	3275.6	2798.8	1349.3	72.7	29.0	11.5	13.6	12.3	36.1	105.5	1292.8
84°	3184.2	2737.8	1287.5	67.1	28.6	11.8	14.0	12.6	35.6	96.3	1248.0
85°	3117.9	2670.7	1238.7	61.7	28.5	12.1	14.4	12.9	35.4	87.9	1201.8
86°	3050.0	2610.9	1184.8	56.6	28.2	12.4	14.7	13.3	34.6	79.6	1154.1
87°	2980.0	2551.5	1134.5	52.3	27.8	12.7	15.0	13.5	34.0	72.4	1101.5
88°	2917.5	2489.4	1084.8	48.4	27.5	13.0	15.4	13.8	35.1	65.8	1052.5
89°	2847.9	2418.4	1030.7	45.4	27.4	13.3	15.7	14.1	35.2	60.1	1005.1



REPORT NUMBER: P670583
 CATALOG NUMBER: WXP120LSFSUNVDBZ-80W-5000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	2784.4	2351.1	982.1	43.1	27.0	13.6	16.0	14.3	35.0	55.2	953.0
91°	2714.5	2287.8	932.8	41.2	26.7	13.9	16.4	14.6	34.7	51.6	905.8
92°	2623.9	2222.2	878.7	39.7	26.6	14.1	16.7	14.9	33.3	49.3	857.3
93°	2546.7	2157.9	832.8	38.8	26.3	14.4	16.9	15.0	32.9	47.6	814.3
94°	2480.2	2088.7	783.4	38.4	26.1	14.6	17.2	15.0	32.7	46.4	769.8
95°	2406.2	2022.0	740.2	38.4	25.8	14.9	17.5	15.1	32.3	45.6	729.7
96°	2324.9	1948.7	697.1	38.6	25.6	15.1	17.7	15.3	32.1	45.3	686.7
97°	2247.2	1877.5	655.1	39.1	25.3	15.3	17.9	15.4	31.7	45.1	642.6
98°	2172.7	1804.3	621.1	39.8	24.9	15.5	18.1	15.5	31.4	45.1	604.6
99°	2110.1	1730.7	584.1	40.4	24.7	15.7	18.3	15.5	31.0	45.3	569.7
100°	2032.8	1661.4	549.5	40.8	24.5	15.9	18.5	15.6	30.6	45.6	537.3
101°	1944.9	1585.6	518.9	41.4	24.1	16.1	18.7	15.8	30.3	46.1	505.5
102°	1862.7	1503.1	485.5	41.9	23.7	16.3	18.9	16.0	30.0	46.8	475.6
103°	1789.5	1431.3	456.1	42.4	23.3	16.5	19.0	16.2	29.6	47.4	446.5
104°	1705.9	1358.0	428.8	42.8	23.0	16.7	19.1	16.3	29.2	48.0	419.8
105°	1619.2	1283.2	399.1	43.1	22.7	16.8	19.2	16.5	28.8	48.5	392.3
106°	1529.0	1217.3	374.5	43.3	22.5	17.0	19.3	16.7	28.7	49.0	362.2
107°	1447.0	1148.7	349.5	43.4	22.2	17.1	19.4	16.8	28.5	49.4	329.4
108°	1354.9	1086.5	324.5	43.5	22.0	17.3	19.4	17.0	28.1	49.8	298.4
109°	1257.5	1017.2	300.6	43.4	21.8	17.4	19.4	17.1	27.7	50.1	266.6
110°	1171.0	950.1	275.8	43.4	21.6	17.6	19.5	17.3	27.3	50.3	236.6
111°	1087.5	884.3	252.7	43.3	21.4	17.7	19.5	17.4	26.9	50.3	212.1
112°	1006.4	813.7	233.1	43.1	21.1	17.8	19.6	17.6	26.5	50.2	190.9
113°	936.4	734.7	214.4	42.9	20.9	18.0	19.6	17.7	26.1	50.0	172.5
114°	868.6	655.9	197.4	42.7	20.8	18.1	19.7	17.9	25.7	49.7	155.4
115°	806.2	567.3	181.2	42.4	20.6	18.2	19.7	18.1	25.3	49.4	141.5
116°	735.6	488.3	166.3	42.2	20.5	18.4	19.8	18.3	25.0	49.2	127.2
117°	662.9	422.6	152.4	41.9	20.4	18.5	19.8	18.4	24.7	48.8	115.5
118°	577.7	364.3	140.2	41.5	20.3	18.6	19.9	18.5	24.4	48.4	105.9
119°	503.7	324.3	129.2	41.1	20.2	18.8	19.9	18.6	24.1	47.9	97.2
120°	441.3	295.5	119.6	40.5	20.1	18.9	19.9	18.8	23.9	47.1	89.3
121°	394.0	268.3	111.2	39.7	20.0	19.0	20.0	18.9	23.6	45.9	81.8
122°	360.0	244.5	105.2	38.9	20.0	19.2	20.0	19.1	23.3	44.6	75.6
123°	329.5	225.1	98.8	38.0	19.9	19.3	20.1	19.2	23.1	43.1	68.4
124°	300.0	203.6	91.0	36.9	19.9	19.4	20.2	19.3	22.8	41.5	60.9
125°	273.6	186.7	82.5	35.8	19.8	19.6	20.2	19.5	22.7	39.9	53.4
126°	247.8	166.2	76.0	34.6	19.8	19.7	20.3	19.6	22.5	38.3	47.6
127°	225.0	148.1	70.1	33.3	19.7	19.8	20.4	19.7	22.3	36.7	43.3
128°	203.8	131.0	64.6	32.1	19.6	19.9	20.4	19.8	22.0	35.3	39.3
129°	181.3	114.4	59.2	30.7	19.6	20.1	20.5	20.0	21.7	33.8	35.5
130°	160.9	100.9	54.2	29.3	19.5	20.2	20.6	20.1	21.4	32.3	31.8
131°	141.4	88.1	48.6	28.0	19.4	20.3	20.7	20.2	21.1	30.6	28.3
132°	119.3	76.7	43.2	26.8	19.3	20.4	20.8	20.3	20.8	29.0	25.2
133°	99.1	67.7	38.5	25.6	19.2	20.5	20.9	20.4	20.4	27.3	22.7
134°	84.3	59.3	34.1	24.5	19.1	20.6	21.0	20.5	20.0	25.4	20.5



REPORT NUMBER: P670583
 CATALOG NUMBER: WXPM120LSFSUNVDBZ-80W-5000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	70.6	51.1	30.8	23.4	19.0	20.7	21.0	20.6	19.5	23.6	18.9
136°	59.8	43.7	27.9	22.5	18.9	20.7	21.1	20.7	19.0	21.7	16.3
137°	50.7	37.7	24.9	21.6	18.8	20.8	21.2	20.7	18.3	19.8	13.6
138°	42.6	32.4	22.3	20.8	18.6	20.8	21.3	20.8	17.6	18.1	11.7
139°	35.4	27.0	21.0	20.1	18.5	20.9	21.4	20.9	17.0	16.5	11.1
140°	28.3	21.4	19.9	19.4	18.3	20.9	21.4	20.9	16.8	15.1	10.7
141°	22.3	17.6	19.1	18.7	18.1	20.9	21.5	20.8	16.6	13.8	10.5
142°	18.0	16.4	18.4	18.0	17.9	20.9	21.5	20.7	16.4	12.7	10.5
143°	13.8	15.0	18.0	17.3	17.7	20.9	21.5	20.7	16.3	12.0	10.8
144°	7.4	14.4	17.7	16.6	17.4	20.8	21.5	20.7	16.3	11.5	11.4
145°	5.4	14.7	17.1	15.9	17.1	20.8	21.5	20.6	16.3	11.3	12.1
146°	5.2	14.3	17.1	15.1	17.0	20.7	21.5	20.5	16.2	11.4	12.8
147°	5.1	12.9	17.2	14.3	17.0	20.6	21.4	20.3	16.0	11.5	13.3
148°	5.1	12.1	17.5	13.7	17.0	20.5	21.3	20.2	15.8	11.6	13.9
149°	5.2	11.5	17.9	13.2	17.0	20.4	21.2	20.0	15.6	11.7	14.3
150°	5.2	11.1	18.3	12.9	17.0	20.3	21.1	19.8	15.5	11.9	14.7
151°	5.0	10.6	19.0	12.9	17.0	20.1	21.0	19.7	15.5	12.0	14.0
152°	4.8	9.4	18.4	12.9	17.0	20.0	20.8	19.5	15.4	12.1	13.0
153°	4.7	8.7	17.3	13.0	17.0	19.8	20.6	19.4	15.3	12.3	12.3
154°	5.0	9.3	16.2	13.2	16.9	19.7	20.4	19.2	15.2	12.4	11.6
155°	5.2	9.9	15.2	13.3	16.9	19.5	20.2	19.0	15.2	12.5	11.0
156°	5.4	10.4	13.8	13.4	16.9	19.3	20.0	18.7	15.1	12.6	11.1
157°	5.8	10.9	13.3	13.5	16.9	19.1	19.7	18.4	15.1	12.8	11.1
158°	6.4	11.3	13.1	13.6	16.8	18.9	19.5	18.2	15.0	12.9	11.2
159°	7.0	11.4	12.9	13.7	16.8	18.7	19.2	18.0	14.9	13.0	11.3
160°	7.5	11.6	12.7	13.8	16.7	18.5	18.9	17.8	14.8	13.1	11.4
161°	7.9	11.6	12.6	13.9	16.7	18.3	18.6	17.5	14.7	13.2	11.5
162°	8.2	11.8	12.4	14.0	16.6	18.1	18.4	17.3	14.6	13.3	11.7
163°	8.6	11.7	12.3	14.1	16.6	17.9	18.1	17.2	14.5	13.4	11.8
164°	8.7	11.0	12.3	14.2	16.5	17.7	17.8	16.8	14.5	13.5	11.9
165°	8.9	10.4	12.3	14.2	16.4	17.5	17.5	16.5	14.4	13.6	12.0
166°	8.9	9.6	12.2	14.3	16.3	17.3	17.2	16.2	14.3	13.7	12.1
167°	8.9	9.7	11.7	14.4	16.2	17.1	16.9	16.0	14.2	13.8	12.3
168°	9.0	9.9	11.4	14.4	16.1	16.9	16.6	15.7	14.0	13.9	12.4
169°	9.4	10.1	11.5	14.5	16.0	16.6	16.3	15.5	14.0	14.0	12.5
170°	9.8	10.3	11.5	14.5	15.8	16.4	16.0	15.2	13.9	14.1	12.6
171°	10.2	10.5	11.6	14.6	15.7	16.1	15.7	14.9	13.7	14.1	12.7
172°	10.6	10.8	11.7	14.6	15.5	15.9	15.3	14.7	13.5	14.2	12.9
173°	11.0	11.0	11.8	14.7	15.4	15.6	15.0	14.5	13.4	14.3	13.0
174°	11.4	11.3	12.0	14.7	15.2	15.3	14.7	14.2	13.2	14.3	13.2
175°	11.7	11.6	11.9	14.7	15.1	15.1	14.3	13.9	12.9	14.4	13.3
176°	12.1	11.8	11.8	14.7	14.9	14.8	14.0	13.6	12.2	14.4	13.5
177°	12.4	12.0	11.7	14.7	14.7	14.5	13.6	13.2	12.0	14.5	13.7
178°	12.5	12.0	11.7	14.7	14.5	14.2	13.3	12.7	11.9	14.6	13.9
179°	12.6	12.0	11.7	14.7	14.3	13.9	13.0	12.2	11.8	14.6	14.1



REPORT NUMBER: P670583
CATALOG NUMBER: WXPMP120LSFSUNVDBZ-80W-5000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7



REPORT NUMBER: P670583
CATALOG NUMBER: WXPM120LSFSUNVDBZ-80W-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	2028.5	2028.5
1°	2164.0	2213.0
2°	2308.3	2398.1
3°	2484.5	2601.3
4°	2661.0	2782.2
5°	2863.4	2973.7
6°	3012.0	3143.5
7°	3137.0	3292.0
8°	3248.8	3427.7
9°	3327.4	3607.6
10°	3459.1	3741.5
11°	3570.2	3856.8
12°	3640.3	4018.1
13°	3806.0	4110.2
14°	3924.8	4176.2
15°	4082.8	4217.0
16°	4128.0	4264.0
17°	4159.2	4259.9
18°	4159.9	4319.8
19°	4073.3	4377.9
20°	4039.3	4356.9
21°	4047.9	4398.2
22°	4093.0	4339.7
23°	4151.9	4338.7
24°	4165.9	4260.1
25°	4154.5	4247.9
26°	4092.7	4193.0
27°	4006.2	4164.5
28°	3924.8	4160.2
29°	3840.8	4100.0
30°	3827.6	4103.1
31°	3837.3	4050.2
32°	3803.0	4049.7
33°	3745.6	3983.1
34°	3690.2	4006.0
35°	3617.4	3950.9
36°	3561.9	3923.2
37°	3493.7	3916.4
38°	3470.3	3917.3
39°	3436.5	3878.5
40°	3437.4	3879.8
41°	3414.9	3851.3
42°	3402.7	3816.0
43°	3330.5	3850.7
44°	3306.6	3817.4



REPORT NUMBER: P670583
CATALOG NUMBER: WXP120LSFSUNVDBZ-80W-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	3273.9	3827.9
46°	3237.0	3861.5
47°	3225.9	3838.5
48°	3221.4	3901.2
49°	3201.5	3897.9
50°	3215.0	3972.8
51°	3221.4	4046.9
52°	3220.1	4157.2
53°	3245.0	4211.3
54°	3264.0	4269.7
55°	3298.1	4291.5
56°	3325.8	4318.3
57°	3354.6	4353.8
58°	3374.6	4364.1
59°	3373.3	4358.2
60°	3369.4	4354.7
61°	3368.9	4354.6
62°	3363.3	4337.6
63°	3356.9	4310.4
64°	3349.3	4301.4
65°	3331.1	4287.2
66°	3316.8	4233.0
67°	3304.8	4174.8
68°	3300.0	4151.2
69°	3278.9	4118.1
70°	3257.0	4049.2
71°	3219.0	3998.4
72°	3195.4	3963.2
73°	3156.8	3919.3
74°	3119.0	3851.1
75°	3081.5	3799.2
76°	3041.2	3746.6
77°	2990.1	3661.2
78°	2944.9	3617.0
79°	2899.5	3548.7
80°	2838.3	3487.3
81°	2784.5	3406.3
82°	2730.1	3348.2
83°	2662.4	3275.6
84°	2597.9	3184.2
85°	2531.4	3117.9
86°	2469.3	3050.0
87°	2403.0	2980.0
88°	2339.9	2917.5
89°	2275.6	2847.9



REPORT NUMBER: P670583
CATALOG NUMBER: WXPM120LSFSUNVDBZ-80W-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	2204.7	2784.4
91°	2143.4	2714.5
92°	2081.1	2623.9
93°	2009.5	2546.7
94°	1942.0	2480.2
95°	1876.5	2406.2
96°	1807.5	2324.9
97°	1741.1	2247.2
98°	1671.4	2172.7
99°	1604.2	2110.1
100°	1533.3	2032.8
101°	1463.7	1944.9
102°	1387.7	1862.7
103°	1314.5	1789.5
104°	1244.2	1705.9
105°	1172.3	1619.2
106°	1095.7	1529.0
107°	1020.6	1447.0
108°	949.7	1354.9
109°	877.5	1257.5
110°	814.3	1171.0
111°	753.0	1087.5
112°	693.4	1006.4
113°	633.1	936.4
114°	574.9	868.6
115°	505.5	806.2
116°	435.7	735.6
117°	379.1	662.9
118°	333.8	577.7
119°	298.8	503.7
120°	271.4	441.3
121°	246.0	394.0
122°	222.9	360.0
123°	202.6	329.5
124°	182.8	300.0
125°	164.5	273.6
126°	145.7	247.8
127°	128.8	225.0
128°	111.7	203.8
129°	95.0	181.3
130°	80.9	160.9
131°	68.2	141.4
132°	57.4	119.3
133°	48.7	99.1
134°	41.0	84.3



REPORT NUMBER: P670583
CATALOG NUMBER: WXPM120LSFSUNVDBZ-80W-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
135°	34.5	70.6
136°	28.5	59.8
137°	23.7	50.7
138°	19.5	42.6
139°	14.9	35.4
140°	9.8	28.3
141°	7.9	22.3
142°	7.7	18.0
143°	7.8	13.8
144°	8.4	7.4
145°	8.8	5.4
146°	8.4	5.2
147°	7.9	5.1
148°	7.6	5.1
149°	7.2	5.2
150°	7.2	5.2
151°	6.7	5.0
152°	6.5	4.8
153°	7.2	4.7
154°	7.5	5.0
155°	7.8	5.2
156°	8.1	5.4
157°	8.5	5.8
158°	8.7	6.4
159°	8.8	7.0
160°	8.9	7.5
161°	9.1	7.9
162°	9.1	8.2
163°	9.0	8.6
164°	9.1	8.7
165°	9.2	8.9
166°	9.5	8.9
167°	9.8	8.9
168°	10.1	9.0
169°	10.5	9.4
170°	10.8	9.8
171°	11.2	10.2
172°	11.6	10.6
173°	11.9	11.0
174°	12.2	11.4
175°	12.6	11.7
176°	12.9	12.1
177°	13.1	12.4
178°	13.3	12.5
179°	13.5	12.6



REPORT NUMBER: P670583
CATALOG NUMBER: WXPM120LSFSUNVDBZ-80W-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
180°	12.7	12.7

(END OF REPORT)