

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: P670593

Luminaire Tested: WXPM80LSFSUNVDBZ-60W-3000K

Issue Date: 4/4/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P670593  
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: WXPM80LSFSUNVDBZ-60W-3000K  
Description: WALL PACK  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6948 lumens  
Efficiency: N/A  
Efficacy: 117.6 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 - G4

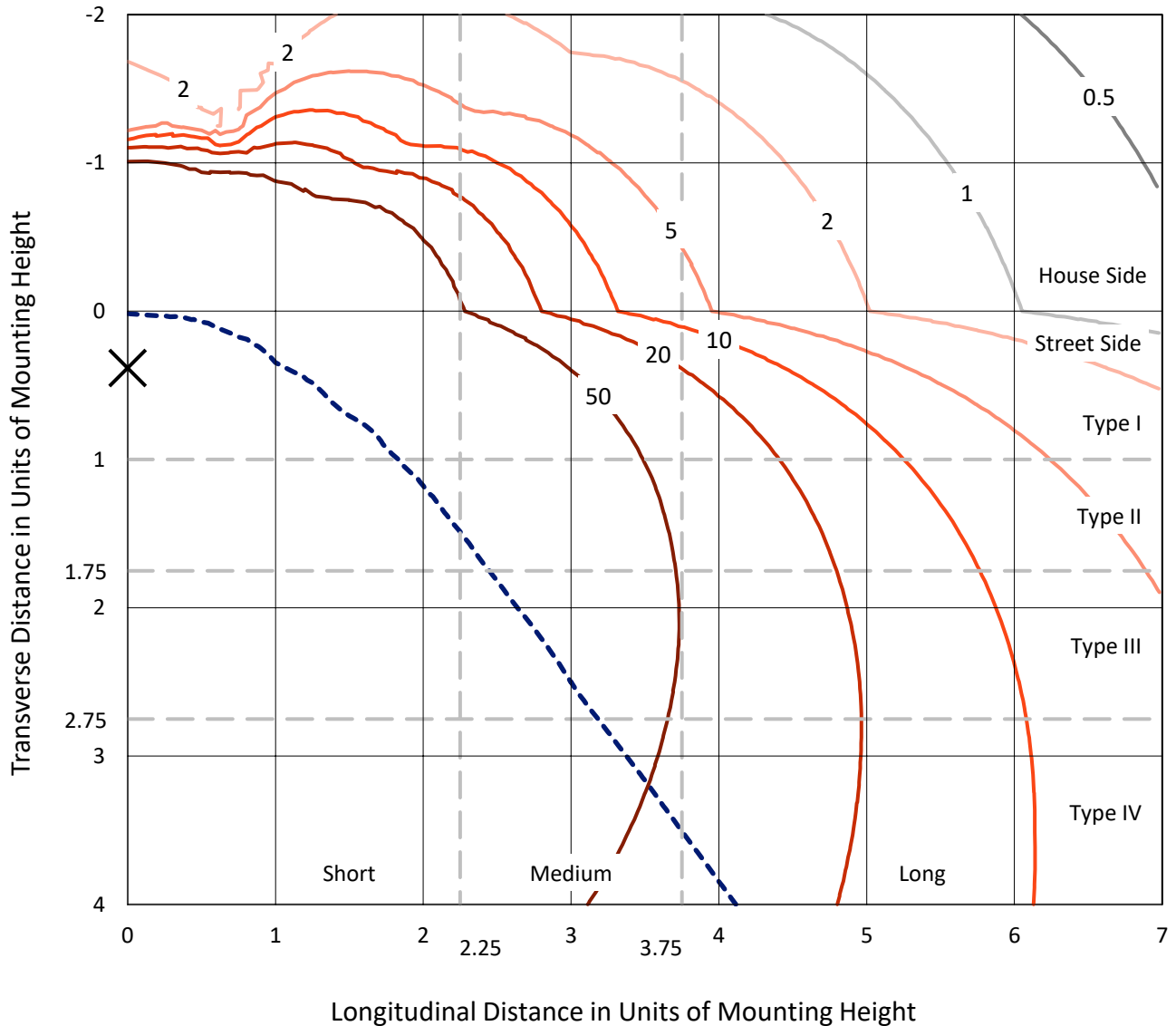
Input Watts (W): 59.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

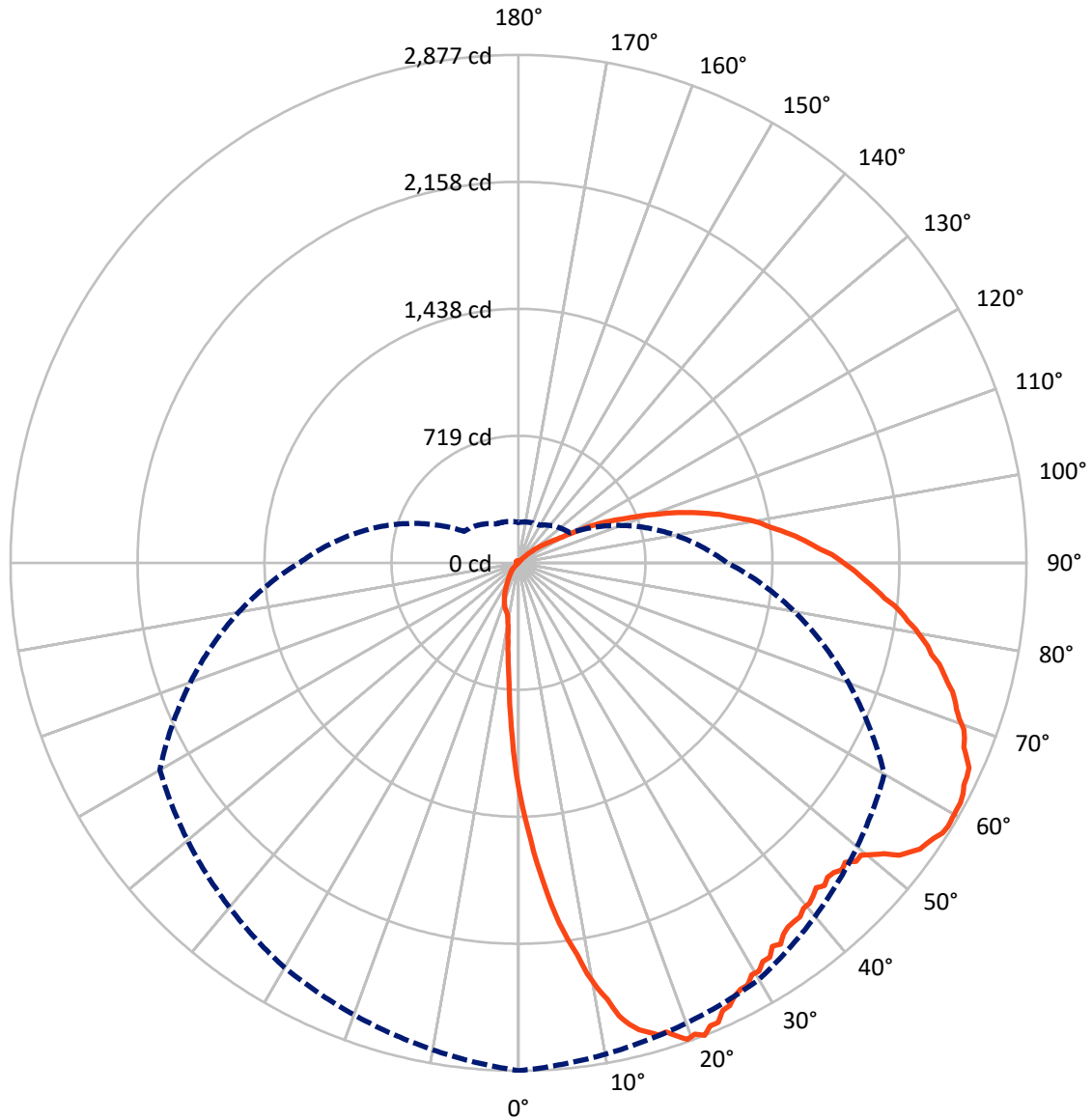
× Max cd  
 - - - 1/2 Max cd



Based on 0.5 foot mounting height. Maximum calculated value = 9980.5 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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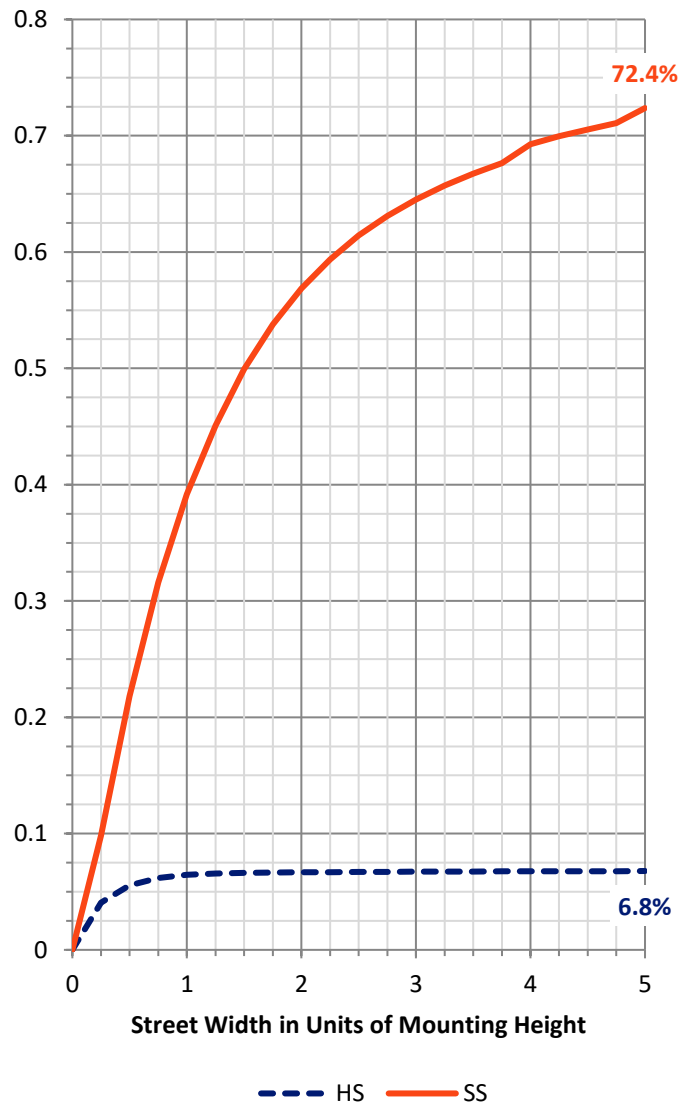
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	478.6	45.9	524.6
	% Fixture	6.9	0.7	7.5
<b>Street Side</b>	Lumens	5493.3	930.2	6423.4
	% Fixture	79.1	13.4	92.5
<b>Total</b>	Lumens	5971.9	976.1	6948.0
	% Fixture	86.0	14.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.5	1.8
10°-20°	391.7	5.6
20°-30°	633.5	9.1
30°-40°	767.3	11.0
40°-50°	824.0	11.9
50°-60°	882.5	12.7
60°-70°	887.3	12.8
70°-80°	804.6	11.6
80°-90°	655.6	9.4
90°-100°	474.0	6.8
100°-110°	292.6	4.2
110°-120°	132.3	1.9
120°-130°	47.1	0.7
130°-140°	15.9	0.2
140°-150°	6.4	0.1
150°-160°	4.2	0.1
160°-170°	2.5	0.0
170°-180°	0.8	0.0
0°-90°	5971.9	86.0
0°-180°	6948.0	100.0

**Coefficient of Utilization**

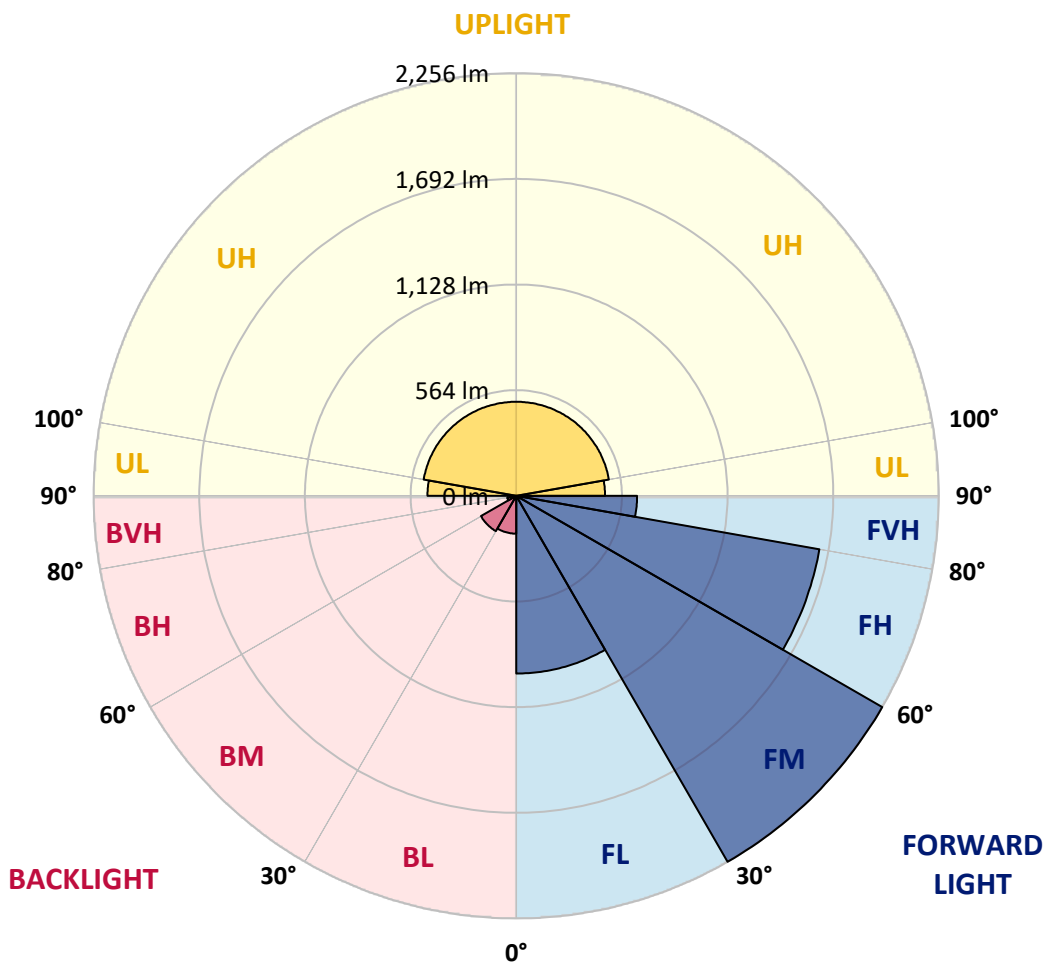


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	948.8	13.7			
FM (30°-60°)	2256.2	32.5			
FH (60°-80°)	1643.4	23.7			G1/1800
FVH (80°-90°)	644.8	9.3			G4/750
BL (0°-30°)	201.9	2.9	B1/500		
BM (30°-60°)	217.5	3.1	B0/220		
BH (60°-80°)	48.5	0.7	B0/110		G0/110
BVH (80°-90°)	10.7	0.2			G1/100
UL (90°-100°)	474.0	6.8		U3/500	
UH (100°-180°)	502.1	7.2		U4/1000	

**BUG Rating: B1-U4-G4**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	1326.9	1326.9	1326.9	1326.9	1326.9	1326.9	1326.9	1326.9	1326.9	1326.9	1326.9
1°	1447.5	1441.9	1398.5	1330.2	1269.4	1222.0	1202.6	1208.6	1249.0	1308.7	1364.7
2°	1568.6	1550.9	1462.2	1328.4	1205.3	1117.6	1067.5	1085.3	1190.5	1322.3	1426.6
3°	1701.6	1675.4	1524.8	1320.0	1144.0	996.5	928.8	966.2	1134.3	1338.8	1503.1
4°	1819.9	1781.8	1574.3	1303.0	1071.7	881.0	805.9	853.1	1066.2	1331.3	1578.4
5°	1945.2	1884.4	1611.4	1288.0	993.3	770.0	683.2	745.3	983.2	1319.9	1612.1
6°	2056.2	1983.4	1674.0	1287.7	918.1	673.8	597.0	664.8	908.7	1329.3	1657.3
7°	2153.4	2068.2	1723.5	1267.9	854.4	597.8	521.8	595.0	849.0	1341.1	1730.4
8°	2242.1	2143.2	1771.1	1240.6	786.1	527.8	455.0	527.5	790.9	1330.9	1816.5
9°	2359.8	2227.8	1805.0	1232.5	719.6	466.8	399.7	467.6	729.8	1319.2	1870.4
10°	2447.4	2329.9	1821.2	1243.5	660.3	415.7	359.6	418.2	675.3	1304.2	1906.7
11°	2522.8	2415.4	1920.8	1234.9	616.2	375.5	331.2	380.0	631.6	1315.8	1937.8
12°	2628.3	2503.3	1983.1	1228.2	574.8	346.4	309.7	352.4	589.6	1327.2	1965.1
13°	2688.5	2563.5	2024.2	1230.7	536.1	323.8	294.8	331.8	556.4	1320.2	2022.3
14°	2731.7	2636.1	2058.3	1220.5	500.4	304.9	286.1	314.2	522.4	1302.8	2092.5
15°	2758.4	2656.9	2106.5	1225.1	469.4	289.8	279.9	300.1	489.6	1291.1	2164.5
16°	2789.1	2656.1	2170.9	1228.8	441.2	277.9	273.5	289.7	458.2	1289.4	2173.7
17°	2786.4	2650.0	2240.3	1224.2	415.7	269.8	266.9	282.1	431.4	1280.0	2178.8
18°	2825.7	2692.2	2302.1	1207.1	394.2	263.5	259.7	275.1	408.7	1259.1	2205.9
19°	2863.6	2718.7	2325.8	1205.7	374.6	258.0	249.2	268.4	388.5	1257.5	2249.0
20°	2849.9	2727.3	2353.7	1203.9	355.1	252.1	240.7	261.0	371.4	1256.4	2301.4
21°	2876.9	2724.4	2392.4	1182.7	338.0	245.8	229.1	254.0	357.0	1240.3	2345.7
22°	2838.7	2758.4	2440.3	1165.0	322.3	235.9	218.8	243.2	344.8	1235.8	2344.8
23°	2838.0	2771.0	2469.0	1126.9	307.7	228.4	207.5	235.2	332.5	1228.2	2341.8
24°	2786.6	2810.6	2478.0	1114.7	292.8	218.3	196.5	223.8	319.7	1211.0	2344.4
25°	2778.6	2764.5	2482.9	1080.5	278.5	208.8	184.1	214.1	308.0	1204.0	2367.9
26°	2742.7	2749.9	2481.4	1045.4	265.1	199.6	172.5	204.6	297.1	1197.5	2401.1
27°	2724.0	2686.4	2492.0	1024.6	254.7	188.8	160.5	192.3	285.5	1186.1	2411.9
28°	2721.3	2658.3	2519.1	1017.7	245.8	179.2	149.5	180.8	275.9	1181.3	2415.5
29°	2681.9	2634.3	2480.6	1004.9	238.1	168.2	138.5	170.8	267.9	1173.2	2372.3
30°	2683.9	2591.2	2438.1	980.1	230.5	157.7	128.9	161.6	261.0	1159.9	2330.9
31°	2649.3	2606.2	2416.2	956.4	223.4	147.6	119.3	152.4	254.1	1136.5	2318.8
32°	2648.9	2608.0	2376.2	929.0	217.0	138.4	111.4	143.6	247.9	1118.1	2303.5
33°	2605.4	2582.6	2318.3	901.9	211.0	129.8	103.1	135.8	241.6	1086.2	2306.9
34°	2620.4	2561.8	2316.5	877.3	204.6	121.8	95.0	127.8	235.3	1057.3	2274.5
35°	2584.3	2546.4	2313.6	851.4	198.5	114.0	88.8	120.5	227.4	1035.8	2241.5
36°	2566.2	2525.3	2278.7	822.4	193.4	106.6	82.6	113.2	221.8	1022.9	2225.3
37°	2561.8	2493.4	2258.9	805.9	188.3	99.2	75.9	106.4	216.1	999.8	2191.4
38°	2562.3	2465.8	2274.8	796.7	181.7	91.9	72.2	99.4	208.3	978.3	2114.9
39°	2537.0	2442.3	2254.1	800.4	176.5	84.6	70.2	92.8	201.6	933.8	2076.1
40°	2537.8	2403.6	2232.9	780.9	170.8	78.0	66.2	86.3	195.4	907.8	2020.5
41°	2519.2	2386.0	2248.1	755.7	164.5	71.4	61.8	80.1	187.8	879.8	1971.9
42°	2496.1	2360.6	2193.0	714.2	158.4	65.2	57.2	73.9	181.7	866.3	1935.1
43°	2518.8	2331.9	2100.9	678.4	151.7	59.1	51.9	67.8	174.9	854.7	1904.8
44°	2497.0	2333.7	2047.0	657.5	146.1	53.4	44.8	62.0	168.1	840.9	1856.0



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CATALOG NUMBER: WXP80LSFSUNVDBZ-60W-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	2503.9	2356.9	1982.0	668.7	139.9	47.9	37.2	56.0	161.1	829.0	1821.2
46°	2525.8	2362.6	1908.6	656.6	134.3	42.4	30.8	49.8	154.1	805.0	1817.9
47°	2510.8	2314.3	1875.8	635.9	127.8	37.0	22.0	43.5	147.6	772.7	1800.7
48°	2551.8	2283.7	1872.1	605.3	122.0	32.2	15.3	37.5	140.9	743.8	1764.8
49°	2549.7	2272.1	1877.6	579.5	115.5	27.0	3.1	31.3	134.5	722.7	1738.9
50°	2598.6	2259.6	1863.2	568.0	109.4	22.1	2.3	25.7	128.4	711.7	1713.0
51°	2647.2	2278.4	1868.1	549.8	103.0	16.5	2.4	20.0	122.5	691.2	1657.3
52°	2719.3	2275.4	1878.4	513.9	97.3	10.8	2.5	14.1	116.9	656.6	1633.1
53°	2754.7	2283.8	1846.4	486.8	91.3	2.6	2.7	5.8	110.9	620.6	1592.9
54°	2792.9	2310.0	1797.2	475.3	86.0	2.4	2.9	3.5	105.2	601.9	1549.5
55°	2807.1	2326.6	1759.9	452.2	80.1	2.5	3.0	3.5	99.3	594.8	1544.3
56°	2824.6	2340.8	1706.9	420.3	74.9	2.6	3.2	3.6	93.3	569.8	1546.6
57°	2847.9	2338.0	1673.6	394.6	69.9	2.8	3.4	3.8	87.3	539.9	1541.9
58°	2854.6	2348.1	1641.6	375.8	65.1	2.9	3.5	3.9	81.7	518.5	1532.4
59°	2850.8	2344.1	1634.6	355.9	60.5	3.1	3.7	4.1	76.3	491.3	1508.2
60°	2848.5	2335.9	1637.5	332.9	56.0	3.2	3.9	4.2	71.1	457.9	1480.4
61°	2848.4	2314.4	1619.2	309.0	51.8	3.4	4.1	4.4	66.1	429.7	1440.4
62°	2837.3	2317.2	1590.4	287.9	47.5	3.5	4.3	4.6	61.3	403.5	1414.7
63°	2819.5	2306.4	1536.2	263.6	43.8	3.7	4.5	4.8	56.8	379.1	1396.3
64°	2813.6	2295.5	1494.0	240.4	40.2	3.9	4.7	5.0	52.6	354.1	1383.0
65°	2804.3	2287.3	1472.4	217.5	37.4	4.1	4.9	5.2	48.8	329.0	1371.8
66°	2768.9	2281.3	1446.2	198.0	35.1	4.2	5.1	5.4	45.2	304.9	1340.1
67°	2730.8	2270.9	1413.9	179.5	33.3	4.4	5.3	5.6	42.1	282.4	1318.2
68°	2715.3	2252.7	1381.8	160.9	31.6	4.6	5.5	5.8	39.9	261.0	1293.4
69°	2693.7	2227.9	1347.1	147.0	30.3	4.8	5.7	6.0	37.9	242.0	1273.1
70°	2648.7	2213.0	1321.9	134.6	28.7	5.0	5.9	6.1	36.1	224.2	1255.5
71°	2615.4	2188.5	1281.4	123.5	27.3	5.2	6.2	6.3	34.5	206.5	1219.9
72°	2592.4	2169.0	1250.2	113.9	26.0	5.3	6.4	6.5	32.9	189.6	1191.4
73°	2563.7	2143.2	1216.3	105.3	24.7	5.5	6.6	6.7	31.5	174.0	1167.3
74°	2519.1	2120.8	1187.3	97.5	23.5	5.7	6.8	6.8	30.1	159.5	1137.1
75°	2485.1	2086.7	1152.2	89.9	22.2	5.9	7.1	6.9	29.1	145.8	1099.8
76°	2450.7	2054.9	1108.0	83.2	21.3	6.1	7.3	7.0	28.1	133.2	1072.5
77°	2394.9	2027.1	1080.3	76.8	20.7	6.3	7.5	7.1	27.3	121.9	1039.9
78°	2365.9	1998.3	1050.9	71.1	20.2	6.5	7.8	7.2	26.5	111.1	1003.5
79°	2321.3	1968.1	1017.3	65.6	19.9	6.7	8.0	7.4	25.6	101.4	974.5
80°	2281.1	1935.2	988.2	60.6	19.6	6.9	8.2	7.5	25.1	92.2	943.8
81°	2228.1	1906.2	951.4	55.8	19.4	7.1	8.4	7.7	24.6	83.9	913.1
82°	2190.1	1871.1	915.1	51.5	19.2	7.3	8.7	7.9	23.9	76.0	877.5
83°	2142.6	1830.8	882.6	47.6	18.9	7.5	8.9	8.0	23.6	69.0	845.6
84°	2082.8	1790.8	842.2	43.9	18.7	7.7	9.2	8.2	23.3	63.0	816.3
85°	2039.5	1746.9	810.3	40.4	18.6	7.9	9.4	8.5	23.2	57.5	786.1
86°	1995.0	1707.8	775.0	37.0	18.4	8.1	9.6	8.7	22.7	52.1	754.9
87°	1949.2	1669.0	742.1	34.2	18.2	8.3	9.8	8.9	22.3	47.3	720.5
88°	1908.4	1628.4	709.6	31.7	18.0	8.5	10.1	9.0	23.0	43.1	688.5
89°	1862.9	1581.9	674.2	29.7	17.9	8.7	10.3	9.2	23.0	39.3	657.4





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**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	1821.3	1537.9	642.4	28.2	17.7	8.9	10.5	9.4	22.9	36.1	623.3
91°	1775.6	1496.5	610.2	26.9	17.5	9.1	10.7	9.6	22.7	33.8	592.5
92°	1716.3	1453.6	574.7	26.0	17.4	9.2	10.9	9.7	21.8	32.3	560.7
93°	1665.8	1411.5	544.7	25.4	17.2	9.4	11.1	9.8	21.5	31.1	532.6
94°	1622.3	1366.2	512.4	25.1	17.1	9.6	11.3	9.8	21.4	30.3	503.5
95°	1573.9	1322.6	484.2	25.1	16.9	9.7	11.4	9.9	21.1	29.8	477.3
96°	1520.7	1274.7	456.0	25.2	16.7	9.9	11.6	10.0	21.0	29.6	449.2
97°	1470.0	1228.1	428.5	25.6	16.6	10.0	11.7	10.0	20.8	29.5	420.3
98°	1421.2	1180.2	406.3	26.1	16.3	10.2	11.9	10.1	20.5	29.5	395.5
99°	1380.2	1132.1	382.1	26.4	16.1	10.3	12.0	10.2	20.2	29.6	372.7
100°	1329.7	1086.7	359.4	26.7	16.0	10.4	12.1	10.2	20.0	29.8	351.4
101°	1272.2	1037.2	339.4	27.1	15.8	10.5	12.2	10.3	19.8	30.2	330.7
102°	1218.4	983.2	317.5	27.4	15.5	10.7	12.3	10.5	19.6	30.6	311.1
103°	1170.6	936.3	298.4	27.7	15.3	10.8	12.4	10.6	19.3	31.0	292.1
104°	1115.8	888.3	280.5	28.0	15.0	10.9	12.5	10.7	19.1	31.4	274.6
105°	1059.1	839.3	261.0	28.2	14.8	11.0	12.6	10.8	18.8	31.7	256.6
106°	1000.2	796.2	245.0	28.3	14.7	11.1	12.6	10.9	18.8	32.1	236.9
107°	946.5	751.4	228.6	28.4	14.6	11.2	12.7	11.0	18.6	32.3	215.5
108°	886.3	710.7	212.3	28.4	14.4	11.3	12.7	11.1	18.4	32.6	195.2
109°	822.6	665.4	196.6	28.4	14.3	11.4	12.7	11.2	18.1	32.8	174.4
110°	765.9	621.5	180.4	28.4	14.1	11.5	12.7	11.3	17.8	32.9	154.8
111°	711.4	578.4	165.3	28.3	14.0	11.6	12.8	11.4	17.6	32.9	138.7
112°	658.3	532.2	152.5	28.2	13.8	11.7	12.8	11.5	17.3	32.9	124.9
113°	612.5	480.6	140.2	28.1	13.7	11.8	12.8	11.6	17.1	32.7	112.9
114°	568.1	429.1	129.1	27.9	13.6	11.8	12.9	11.7	16.8	32.5	101.7
115°	527.4	371.1	118.5	27.8	13.5	11.9	12.9	11.8	16.5	32.3	92.6
116°	481.2	319.4	108.8	27.6	13.4	12.0	12.9	11.9	16.3	32.2	83.2
117°	433.6	276.4	99.7	27.4	13.3	12.1	13.0	12.0	16.1	31.9	75.6
118°	377.9	238.3	91.7	27.2	13.3	12.2	13.0	12.1	15.9	31.7	69.3
119°	329.5	212.1	84.5	26.9	13.2	12.3	13.0	12.2	15.8	31.3	63.6
120°	288.7	193.3	78.2	26.5	13.1	12.4	13.0	12.3	15.6	30.8	58.4
121°	257.7	175.5	72.7	26.0	13.1	12.5	13.1	12.4	15.4	30.0	53.5
122°	235.5	159.9	68.8	25.4	13.1	12.5	13.1	12.5	15.3	29.2	49.4
123°	215.5	147.2	64.6	24.8	13.0	12.6	13.1	12.6	15.1	28.2	44.8
124°	196.2	133.2	59.5	24.1	13.0	12.7	13.2	12.7	14.9	27.2	39.8
125°	179.0	122.1	54.0	23.4	13.0	12.8	13.2	12.7	14.8	26.1	35.0
126°	162.1	108.7	49.7	22.6	12.9	12.9	13.3	12.8	14.7	25.0	31.1
127°	147.2	96.9	45.8	21.8	12.9	13.0	13.3	12.9	14.6	24.0	28.3
128°	133.3	85.7	42.2	21.0	12.8	13.0	13.4	13.0	14.4	23.1	25.7
129°	118.6	74.9	38.7	20.1	12.8	13.1	13.4	13.1	14.2	22.1	23.3
130°	105.3	66.0	35.5	19.2	12.8	13.2	13.5	13.1	14.0	21.1	20.8
131°	92.5	57.6	31.8	18.3	12.7	13.3	13.5	13.2	13.8	20.0	18.5
132°	78.0	50.1	28.3	17.5	12.6	13.3	13.6	13.3	13.6	19.0	16.5
133°	64.9	44.3	25.2	16.7	12.6	13.4	13.7	13.3	13.4	17.8	14.8
134°	55.1	38.8	22.3	16.0	12.5	13.5	13.7	13.4	13.1	16.6	13.4



REPORT NUMBER: P670593

CATALOG NUMBER: WXP80LSFSUNVDBZ-60W-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	46.2	33.4	20.2	15.3	12.4	13.5	13.8	13.5	12.7	15.4	12.4
136°	39.1	28.6	18.2	14.7	12.4	13.6	13.8	13.5	12.4	14.2	10.6
137°	33.2	24.6	16.3	14.1	12.3	13.6	13.9	13.6	12.0	12.9	8.9
138°	27.9	21.2	14.6	13.6	12.2	13.6	13.9	13.6	11.5	11.8	7.7
139°	23.1	17.7	13.7	13.2	12.1	13.7	14.0	13.6	11.1	10.8	7.3
140°	18.5	14.0	13.0	12.7	12.0	13.7	14.0	13.7	11.0	9.9	7.0
141°	14.6	11.5	12.5	12.3	11.9	13.7	14.1	13.6	10.8	9.0	6.9
142°	11.7	10.7	12.1	11.8	11.7	13.7	14.1	13.6	10.7	8.3	6.9
143°	9.0	9.8	11.8	11.3	11.6	13.6	14.1	13.6	10.7	7.8	7.1
144°	4.9	9.4	11.6	10.9	11.4	13.6	14.1	13.5	10.6	7.5	7.5
145°	3.6	9.6	11.2	10.4	11.2	13.6	14.1	13.5	10.6	7.4	7.9
146°	3.4	9.3	11.2	9.9	11.1	13.5	14.0	13.4	10.6	7.4	8.3
147°	3.3	8.5	11.3	9.4	11.1	13.5	14.0	13.3	10.5	7.5	8.7
148°	3.3	7.9	11.4	8.9	11.1	13.4	14.0	13.2	10.3	7.6	9.1
149°	3.4	7.5	11.7	8.6	11.1	13.4	13.9	13.1	10.2	7.7	9.3
150°	3.4	7.2	12.0	8.5	11.1	13.3	13.8	13.0	10.2	7.8	9.6
151°	3.2	7.0	12.5	8.4	11.1	13.2	13.7	12.9	10.1	7.9	9.2
152°	3.1	6.2	12.1	8.4	11.1	13.1	13.6	12.7	10.1	7.9	8.5
153°	3.1	5.7	11.3	8.5	11.1	13.0	13.5	12.7	10.0	8.0	8.0
154°	3.3	6.1	10.6	8.6	11.1	12.9	13.4	12.6	10.0	8.1	7.6
155°	3.4	6.4	9.9	8.7	11.1	12.7	13.2	12.4	9.9	8.2	7.2
156°	3.5	6.8	9.0	8.8	11.1	12.6	13.1	12.3	9.9	8.3	7.2
157°	3.8	7.1	8.7	8.8	11.0	12.5	12.9	12.0	9.8	8.3	7.3
158°	4.2	7.4	8.6	8.9	11.0	12.4	12.7	11.9	9.8	8.4	7.3
159°	4.6	7.5	8.4	9.0	11.0	12.3	12.6	11.8	9.8	8.5	7.4
160°	4.9	7.6	8.3	9.0	11.0	12.1	12.4	11.6	9.7	8.6	7.5
161°	5.2	7.6	8.2	9.1	10.9	12.0	12.2	11.5	9.6	8.7	7.6
162°	5.3	7.7	8.1	9.2	10.9	11.9	12.0	11.3	9.5	8.7	7.6
163°	5.6	7.7	8.1	9.2	10.8	11.7	11.8	11.2	9.5	8.8	7.7
164°	5.7	7.2	8.1	9.3	10.8	11.6	11.6	11.0	9.5	8.9	7.8
165°	5.8	6.8	8.0	9.3	10.7	11.4	11.4	10.8	9.4	8.9	7.9
166°	5.8	6.3	8.0	9.4	10.7	11.3	11.2	10.6	9.4	9.0	7.9
167°	5.8	6.3	7.6	9.4	10.6	11.2	11.1	10.5	9.3	9.0	8.0
168°	5.9	6.5	7.5	9.4	10.5	11.0	10.9	10.3	9.2	9.1	8.1
169°	6.2	6.6	7.5	9.5	10.4	10.9	10.7	10.1	9.1	9.1	8.2
170°	6.4	6.7	7.5	9.5	10.3	10.7	10.5	9.9	9.1	9.2	8.3
171°	6.7	6.9	7.6	9.5	10.3	10.5	10.2	9.8	8.9	9.2	8.3
172°	6.9	7.0	7.7	9.6	10.2	10.4	10.0	9.6	8.8	9.3	8.4
173°	7.2	7.2	7.7	9.6	10.1	10.2	9.8	9.5	8.7	9.3	8.5
174°	7.4	7.4	7.8	9.6	10.0	10.0	9.6	9.3	8.6	9.4	8.6
175°	7.7	7.6	7.8	9.6	9.9	9.8	9.4	9.1	8.4	9.4	8.7
176°	7.9	7.7	7.7	9.6	9.7	9.7	9.1	8.9	8.0	9.4	8.9
177°	8.1	7.9	7.7	9.6	9.6	9.5	8.9	8.7	7.9	9.5	9.0
178°	8.2	7.9	7.7	9.6	9.5	9.3	8.7	8.3	7.8	9.5	9.1
179°	8.3	7.9	7.6	9.6	9.4	9.1	8.5	8.0	7.7	9.6	9.2



REPORT NUMBER: P670593  
CATALOG NUMBER: WXPM80LSFSUNVDBZ-60W-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3



REPORT NUMBER: P670593  
CATALOG NUMBER: WXP80LSFSUNVDBZ-60W-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
0°	1326.9	1326.9
1°	1415.5	1447.5
2°	1509.9	1568.6
3°	1625.2	1701.6
4°	1740.6	1819.9
5°	1873.0	1945.2
6°	1970.2	2056.2
7°	2052.0	2153.4
8°	2125.1	2242.1
9°	2176.5	2359.8
10°	2262.6	2447.4
11°	2335.4	2522.8
12°	2381.1	2628.3
13°	2489.6	2688.5
14°	2567.3	2731.7
15°	2670.6	2758.4
16°	2700.2	2789.1
17°	2720.6	2786.4
18°	2721.1	2825.7
19°	2664.4	2863.6
20°	2642.1	2849.9
21°	2647.8	2876.9
22°	2677.3	2838.7
23°	2715.8	2838.0
24°	2725.0	2786.6
25°	2717.5	2778.6
26°	2677.1	2742.7
27°	2620.5	2724.0
28°	2567.2	2721.3
29°	2512.3	2681.9
30°	2503.7	2683.9
31°	2510.0	2649.3
32°	2487.6	2648.9
33°	2450.1	2605.4
34°	2413.8	2620.4
35°	2366.2	2584.3
36°	2329.9	2566.2
37°	2285.3	2561.8
38°	2270.0	2562.3
39°	2247.8	2537.0
40°	2248.5	2537.8
41°	2233.7	2519.2
42°	2225.7	2496.1
43°	2178.5	2518.8
44°	2162.9	2497.0



REPORT NUMBER: P670593  
CATALOG NUMBER: WXPM80LSFSUNVDBZ-60W-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
45°	2141.5	2503.9
46°	2117.3	2525.8
47°	2110.1	2510.8
48°	2107.1	2551.8
49°	2094.2	2549.7
50°	2103.0	2598.6
51°	2107.1	2647.2
52°	2106.3	2719.3
53°	2122.6	2754.7
54°	2135.0	2792.9
55°	2157.3	2807.1
56°	2175.5	2824.6
57°	2194.3	2847.9
58°	2207.3	2854.6
59°	2206.5	2850.8
60°	2204.0	2848.5
61°	2203.6	2848.4
62°	2200.0	2837.3
63°	2195.8	2819.5
64°	2190.8	2813.6
65°	2178.9	2804.3
66°	2169.6	2768.9
67°	2161.7	2730.8
68°	2158.6	2715.3
69°	2144.8	2693.7
70°	2130.4	2648.7
71°	2105.6	2615.4
72°	2090.2	2592.4
73°	2064.9	2563.7
74°	2040.2	2519.1
75°	2015.7	2485.1
76°	1989.3	2450.7
77°	1955.9	2394.9
78°	1926.3	2365.9
79°	1896.6	2321.3
80°	1856.6	2281.1
81°	1821.4	2228.1
82°	1785.8	2190.1
83°	1741.5	2142.6
84°	1699.3	2082.8
85°	1655.8	2039.5
86°	1615.2	1995.0
87°	1571.8	1949.2
88°	1530.6	1908.4
89°	1488.5	1862.9



REPORT NUMBER: P670593  
CATALOG NUMBER: WXPM80LSFSUNVDBZ-60W-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
90°	1442.1	1821.3
91°	1402.1	1775.6
92°	1361.3	1716.3
93°	1314.4	1665.8
94°	1270.3	1622.3
95°	1227.4	1573.9
96°	1182.3	1520.7
97°	1138.9	1470.0
98°	1093.3	1421.2
99°	1049.4	1380.2
100°	1003.0	1329.7
101°	957.4	1272.2
102°	907.7	1218.4
103°	859.8	1170.6
104°	813.9	1115.8
105°	766.8	1059.1
106°	716.7	1000.2
107°	667.6	946.5
108°	621.2	886.3
109°	574.0	822.6
110°	532.6	765.9
111°	492.5	711.4
112°	453.6	658.3
113°	414.1	612.5
114°	376.1	568.1
115°	330.6	527.4
116°	285.0	481.2
117°	248.0	433.6
118°	218.3	377.9
119°	195.5	329.5
120°	177.5	288.7
121°	160.9	257.7
122°	145.8	235.5
123°	132.5	215.5
124°	119.6	196.2
125°	107.6	179.0
126°	95.3	162.1
127°	84.2	147.2
128°	73.1	133.3
129°	62.2	118.6
130°	52.9	105.3
131°	44.6	92.5
132°	37.5	78.0
133°	31.9	64.9
134°	26.8	55.1



REPORT NUMBER: P670593  
CATALOG NUMBER: WXPM80LSFSUNVDBZ-60W-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
135°	22.6	46.2
136°	18.6	39.1
137°	15.5	33.2
138°	12.8	27.9
139°	9.8	23.1
140°	6.4	18.5
141°	5.1	14.6
142°	5.1	11.7
143°	5.1	9.0
144°	5.5	4.9
145°	5.7	3.6
146°	5.5	3.4
147°	5.2	3.3
148°	4.9	3.3
149°	4.7	3.4
150°	4.7	3.4
151°	4.4	3.2
152°	4.3	3.1
153°	4.7	3.1
154°	4.9	3.3
155°	5.1	3.4
156°	5.3	3.5
157°	5.6	3.8
158°	5.7	4.2
159°	5.7	4.6
160°	5.8	4.9
161°	5.9	5.2
162°	6.0	5.3
163°	5.9	5.6
164°	5.9	5.7
165°	6.0	5.8
166°	6.2	5.8
167°	6.4	5.8
168°	6.6	5.9
169°	6.9	6.2
170°	7.1	6.4
171°	7.3	6.7
172°	7.6	6.9
173°	7.8	7.2
174°	8.0	7.4
175°	8.2	7.7
176°	8.4	7.9
177°	8.6	8.1
178°	8.7	8.2
179°	8.8	8.3



REPORT NUMBER: P670593  
CATALOG NUMBER: WXPM80LSFSUNVDBZ-60W-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
180°	8.3	8.3

(END OF REPORT)