

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: P670582

Luminaire Tested: WXPM120LSFSUNVDBZ-80W-4000K

Issue Date: 4/4/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P670582  
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-4000K  
Description: WALL PACK  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10520 lumens  
Efficiency: N/A  
Efficacy: 141.0 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): 74.6  
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

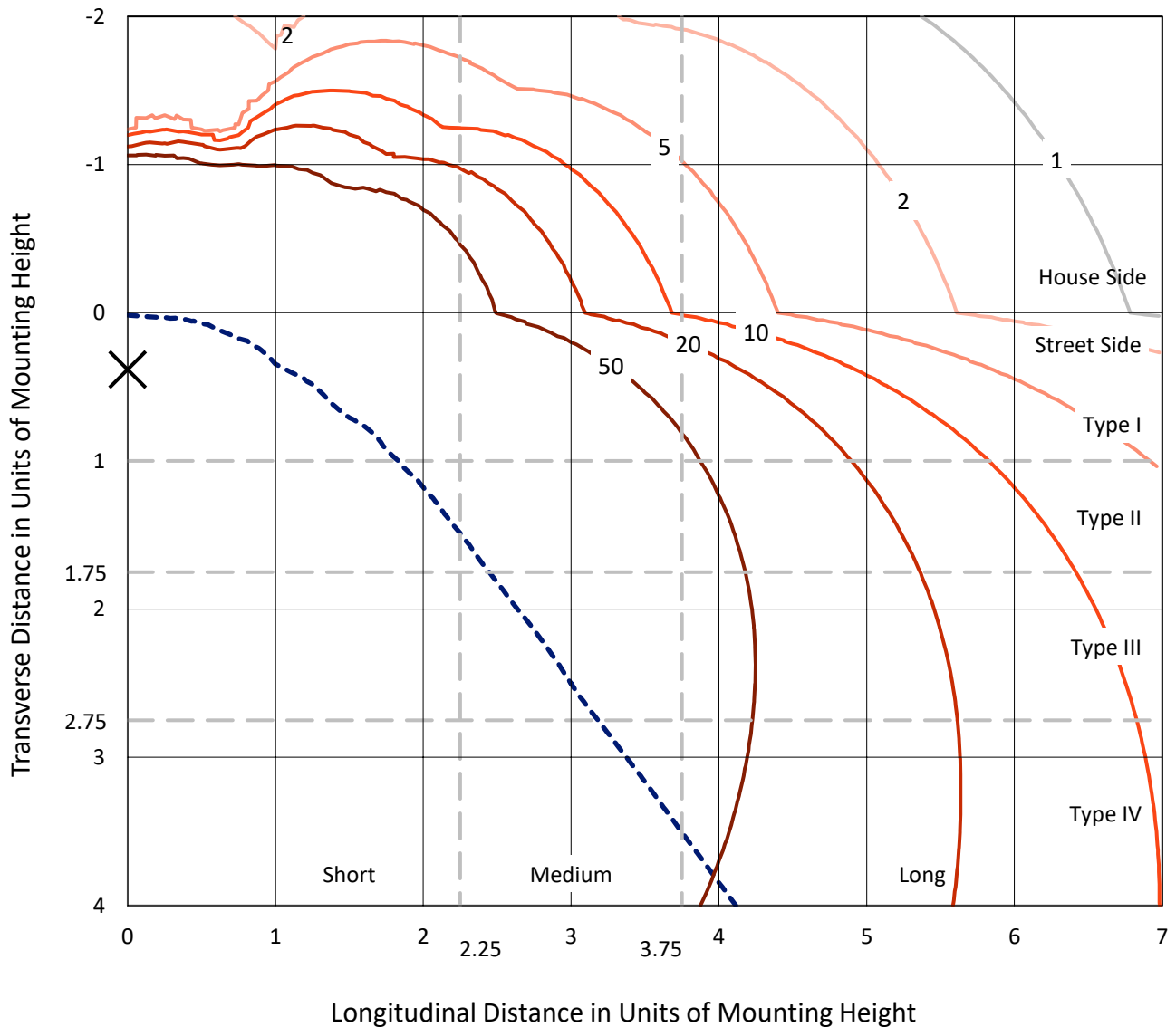




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### Iso-Footcandle Lines of Horizontal Illumination

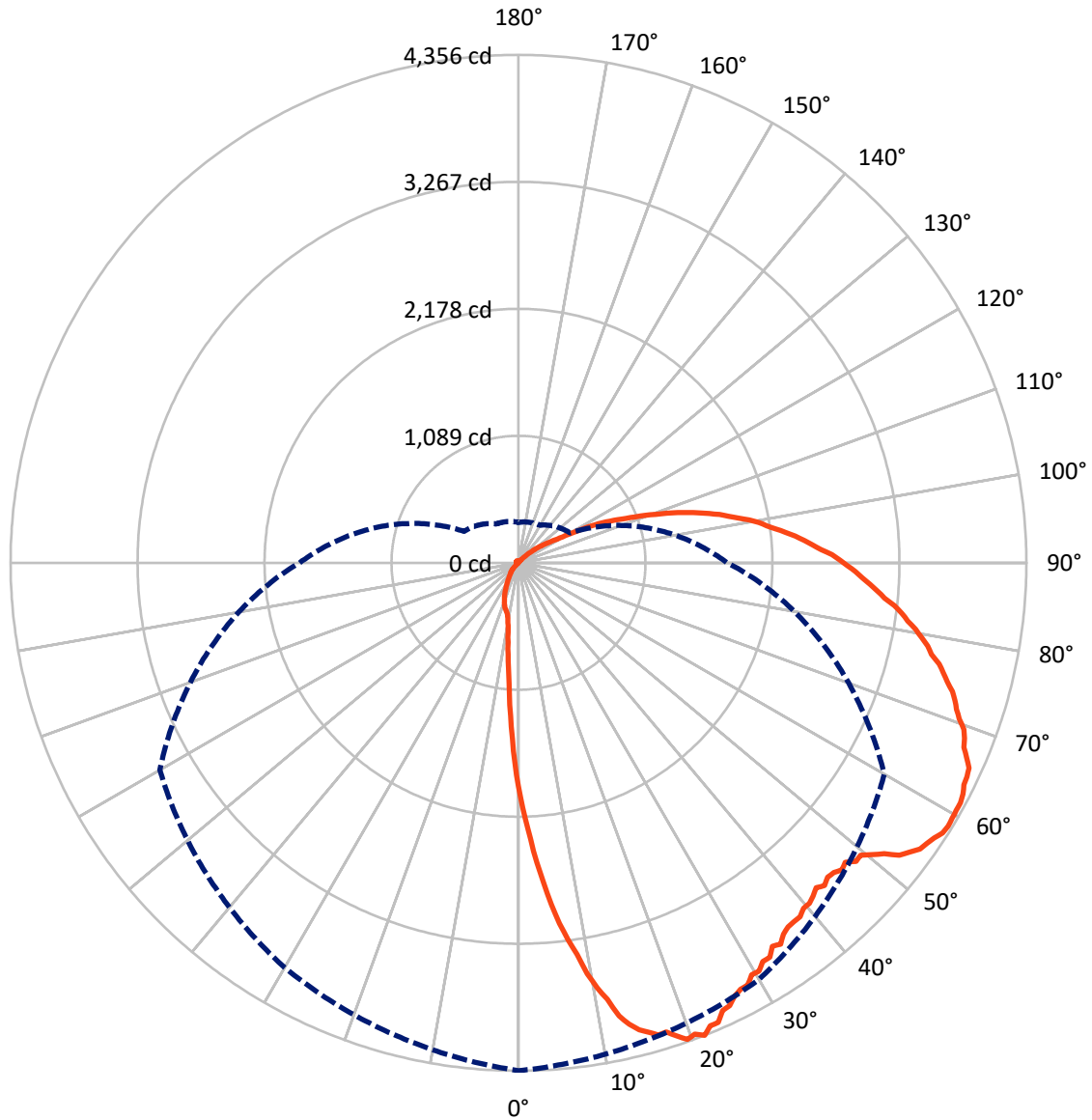
× Max cd  
 - - - 1/2 Max cd



Based on 0.5 foot mounting height. Maximum calculated value = 15111.6 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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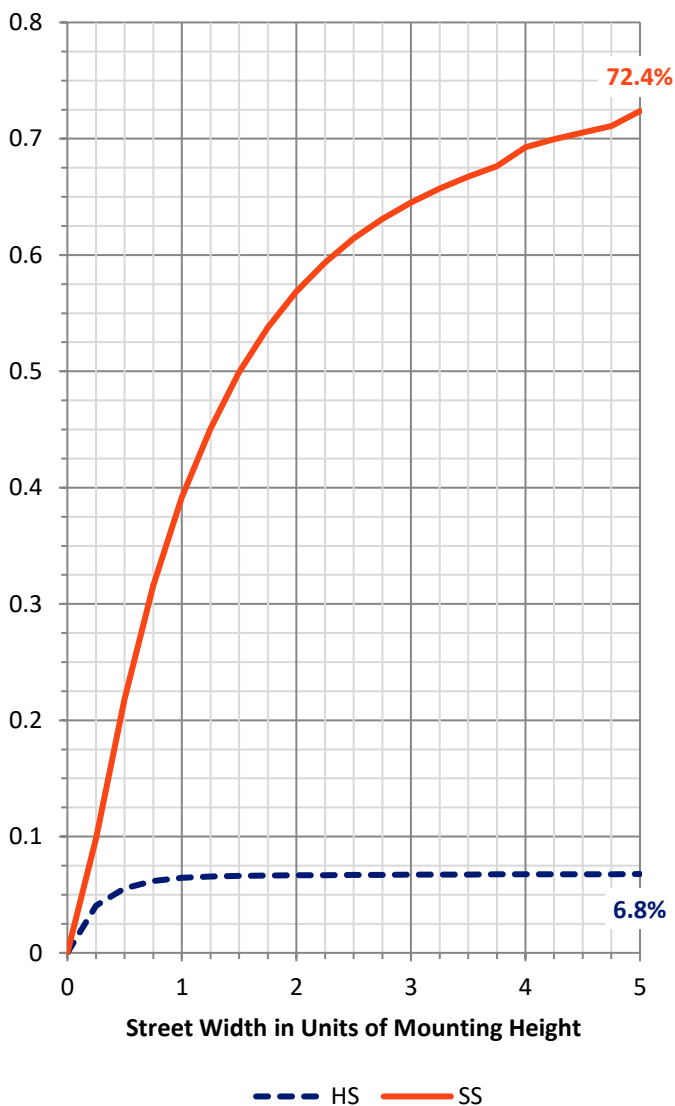
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	724.7	69.5	794.2
	% Fixture	6.9	0.7	7.5
<b>Street Side</b>	Lumens	8317.4	1408.4	9725.8
	% Fixture	79.1	13.4	92.5
<b>Total</b>	Lumens	9042.1	1477.9	10520.0
	% Fixture	86.0	14.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.0	1.8
10°-20°	593.1	5.6
20°-30°	959.1	9.1
30°-40°	1161.7	11.0
40°-50°	1247.6	11.9
50°-60°	1336.2	12.7
60°-70°	1343.5	12.8
70°-80°	1218.3	11.6
80°-90°	992.6	9.4
90°-100°	717.7	6.8
100°-110°	443.1	4.2
110°-120°	200.4	1.9
120°-130°	71.4	0.7
130°-140°	24.1	0.2
140°-150°	9.8	0.1
150°-160°	6.4	0.1
160°-170°	3.8	0.0
170°-180°	1.3	0.0
0°-90°	9042.1	86.0
0°-180°	10520.0	100.0

**Coefficient of Utilization**

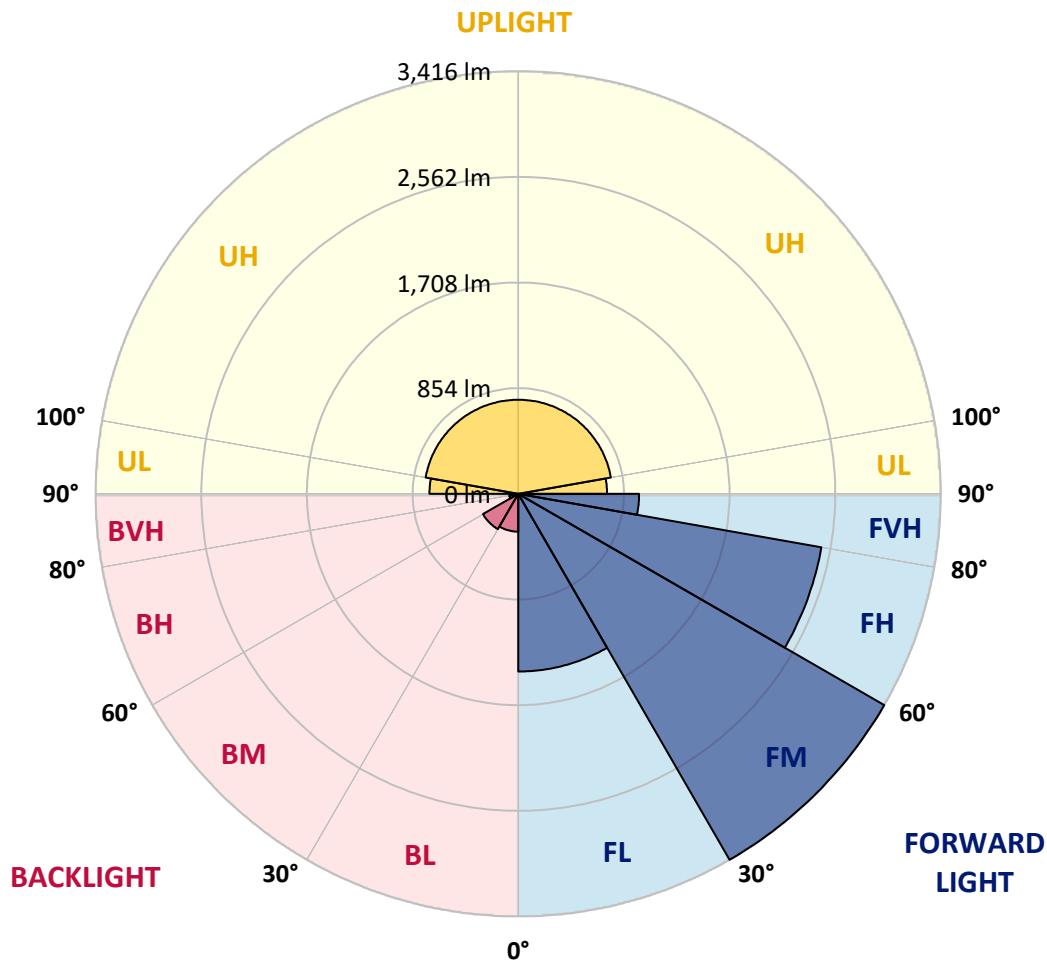


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1436.5	13.7			
FM (30°-60°)	3416.2	32.5			
FH (60°-80°)	2488.3	23.7			G2/5000
FVH (80°-90°)	976.3	9.3			G5
BL (0°-30°)	305.7	2.9	B1/500		
BM (30°-60°)	329.3	3.1	B1/1000		
BH (60°-80°)	73.4	0.7	B0/110		G0/110
BVH (80°-90°)	16.3	0.2			G1/100
UL (90°-100°)	717.7	6.8		U4/1000	
UH (100°-180°)	760.2	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°	2009.0	2009.0	2009.0	2009.0	2009.0	2009.0	2009.0	2009.0	2009.0	2009.0	2009.0
1°	2191.7	2183.2	2117.4	2014.1	1921.9	1850.2	1820.9	1829.9	1891.1	1981.6	2066.3
2°	2375.0	2348.2	2214.0	2011.3	1825.0	1692.2	1616.3	1643.3	1802.5	2002.2	2160.0
3°	2576.3	2536.8	2308.7	1998.6	1732.1	1508.8	1406.3	1462.9	1717.5	2027.1	2275.8
4°	2755.5	2697.8	2383.6	1972.9	1622.7	1334.0	1220.2	1291.7	1614.4	2015.7	2389.8
5°	2945.2	2853.2	2439.9	1950.2	1504.0	1165.8	1034.5	1128.5	1488.7	1998.5	2440.9
6°	3113.3	3003.1	2534.6	1949.8	1390.2	1020.2	903.9	1006.6	1375.8	2012.7	2509.3
7°	3260.4	3131.5	2609.5	1919.7	1293.7	905.2	790.0	900.9	1285.5	2030.5	2620.0
8°	3394.8	3245.1	2681.6	1878.4	1190.2	799.1	688.9	798.8	1197.5	2015.2	2750.4
9°	3573.0	3373.0	2732.9	1866.1	1089.5	706.7	605.2	708.0	1105.1	1997.5	2832.0
10°	3705.6	3527.7	2757.4	1882.8	999.7	629.3	544.5	633.1	1022.4	1974.7	2886.9
11°	3819.7	3657.2	2908.3	1869.8	932.9	568.5	501.5	575.4	956.3	1992.2	2934.0
12°	3979.5	3790.3	3002.6	1859.6	870.3	524.5	468.9	533.6	892.7	2009.5	2975.4
13°	4070.7	3881.4	3064.9	1863.4	811.6	490.2	446.4	502.3	842.4	1998.9	3062.0
14°	4136.1	3991.3	3116.4	1847.9	757.7	461.7	433.1	475.8	791.0	1972.6	3168.3
15°	4176.5	4022.9	3189.5	1854.9	710.8	438.8	423.8	454.4	741.3	1954.9	3277.2
16°	4223.0	4021.6	3287.0	1860.6	668.0	420.8	414.2	438.6	693.8	1952.3	3291.1
17°	4219.0	4012.4	3392.1	1853.6	629.4	408.5	404.1	427.2	653.1	1938.1	3299.0
18°	4278.4	4076.2	3485.6	1827.6	596.9	398.9	393.2	416.6	618.9	1906.5	3339.9
19°	4335.9	4116.4	3521.4	1825.5	567.1	390.6	377.4	406.4	588.2	1903.9	3405.2
20°	4315.0	4129.5	3563.8	1822.8	537.6	381.7	364.5	395.2	562.3	1902.3	3484.5
21°	4356.0	4125.1	3622.3	1790.7	511.7	372.2	346.9	384.6	540.6	1878.0	3551.7
22°	4298.1	4176.5	3694.8	1763.9	488.0	357.2	331.3	368.2	522.1	1871.1	3550.2
23°	4297.0	4195.6	3738.4	1706.2	465.9	345.8	314.2	356.2	503.4	1859.6	3545.8
24°	4219.2	4255.6	3751.9	1687.8	443.4	330.5	297.5	338.8	484.0	1833.5	3549.6
25°	4207.1	4185.7	3759.4	1636.1	421.7	316.1	278.7	324.2	466.4	1822.9	3585.2
26°	4152.8	4163.6	3757.1	1582.9	401.5	302.3	261.3	309.8	449.8	1813.2	3635.6
27°	4124.5	4067.5	3773.2	1551.4	385.6	285.8	243.0	291.1	432.3	1795.9	3651.9
28°	4120.3	4024.9	3814.2	1540.9	372.2	271.3	226.4	273.7	417.8	1788.6	3657.4
29°	4060.6	3988.6	3755.8	1521.5	360.5	254.7	209.7	258.6	405.6	1776.4	3591.9
30°	4063.7	3923.4	3691.5	1483.9	349.0	238.7	195.2	244.7	395.2	1756.1	3529.2
31°	4011.3	3946.0	3658.4	1448.1	338.2	223.5	180.7	230.8	384.8	1720.8	3510.9
32°	4010.8	3948.7	3597.9	1406.7	328.5	209.6	168.7	217.5	375.3	1693.0	3487.7
33°	3944.8	3910.4	3510.1	1365.6	319.4	196.5	156.1	205.6	365.9	1644.6	3492.9
34°	3967.6	3878.9	3507.5	1328.3	309.8	184.4	143.8	193.5	356.2	1600.8	3443.8
35°	3913.0	3855.5	3503.0	1289.1	300.6	172.5	134.4	182.5	344.3	1568.3	3393.9
36°	3885.5	3823.5	3450.2	1245.2	292.8	161.4	125.1	171.5	335.8	1548.8	3369.3
37°	3878.8	3775.3	3420.3	1220.2	285.1	150.2	114.9	161.1	327.3	1513.7	3318.0
38°	3879.6	3733.4	3444.3	1206.3	275.1	139.2	109.3	150.5	315.4	1481.2	3202.2
39°	3841.2	3697.9	3413.0	1211.9	267.2	128.1	106.3	140.5	305.3	1413.9	3143.4
40°	3842.5	3639.4	3380.8	1182.4	258.6	118.0	100.2	130.6	295.8	1374.5	3059.2
41°	3814.3	3612.7	3403.9	1144.2	249.1	108.1	93.6	121.2	284.3	1332.1	2985.6
42°	3779.4	3574.1	3320.4	1081.4	239.8	98.7	86.7	112.0	275.1	1311.6	2930.0
43°	3813.7	3530.8	3181.0	1027.2	229.6	89.5	78.6	102.7	264.8	1294.1	2884.1
44°	3780.8	3533.4	3099.3	995.6	221.2	80.8	67.8	93.8	254.5	1273.3	2810.2



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CATALOG NUMBER: WXP120LSFSUNVDBZ-80W-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	3791.1	3568.7	3000.9	1012.5	211.8	72.5	56.3	84.7	244.0	1255.1	2757.5
46°	3824.4	3577.2	2889.8	994.2	203.3	64.1	46.7	75.4	233.4	1218.9	2752.4
47°	3801.7	3504.0	2840.1	962.8	193.5	56.1	33.3	65.9	223.4	1170.0	2726.4
48°	3863.7	3457.8	2834.5	916.4	184.7	48.7	23.2	56.8	213.3	1126.1	2672.2
49°	3860.5	3440.3	2842.9	877.4	174.9	40.8	4.6	47.4	203.6	1094.3	2632.9
50°	3934.6	3421.2	2821.1	860.0	165.6	33.5	3.4	39.0	194.4	1077.7	2593.7
51°	4008.1	3449.8	2828.5	832.4	155.9	24.9	3.6	30.3	185.5	1046.6	2509.4
52°	4117.3	3445.3	2844.1	778.1	147.3	16.4	3.8	21.3	177.0	994.2	2472.6
53°	4170.9	3457.9	2795.7	737.0	138.2	4.0	4.1	8.7	167.9	939.7	2411.8
54°	4228.7	3497.6	2721.2	719.7	130.2	3.6	4.3	5.3	159.3	911.3	2346.1
55°	4250.3	3522.7	2664.7	684.6	121.3	3.8	4.6	5.3	150.4	900.5	2338.3
56°	4276.8	3544.3	2584.5	636.5	113.4	4.0	4.8	5.5	141.3	862.8	2341.8
57°	4312.0	3540.0	2533.9	597.5	105.8	4.2	5.1	5.7	132.2	817.4	2334.6
58°	4322.2	3555.3	2485.5	569.0	98.6	4.4	5.3	6.0	123.7	785.0	2320.2
59°	4316.4	3549.2	2474.9	538.9	91.6	4.7	5.6	6.2	115.6	743.9	2283.6
60°	4312.9	3536.7	2479.4	504.1	84.8	4.9	5.9	6.4	107.6	693.3	2241.4
61°	4312.8	3504.2	2451.6	467.9	78.4	5.1	6.2	6.7	100.1	650.6	2181.0
62°	4296.0	3508.4	2408.0	435.9	71.9	5.4	6.5	7.0	92.9	610.9	2142.0
63°	4269.0	3492.1	2326.0	399.1	66.3	5.6	6.8	7.3	86.1	574.0	2114.1
64°	4260.1	3475.7	2262.1	363.9	60.9	5.9	7.1	7.6	79.7	536.2	2094.0
65°	4246.1	3463.3	2229.3	329.4	56.7	6.1	7.4	7.9	73.8	498.1	2077.0
66°	4192.4	3454.1	2189.8	299.7	53.2	6.4	7.7	8.2	68.4	461.7	2029.0
67°	4134.7	3438.4	2140.8	271.8	50.4	6.7	8.0	8.5	63.8	427.6	1996.0
68°	4111.3	3410.9	2092.1	243.6	47.9	7.0	8.3	8.8	60.3	395.2	1958.3
69°	4078.6	3373.3	2039.7	222.6	45.9	7.2	8.7	9.0	57.4	366.4	1927.6
70°	4010.4	3350.8	2001.5	203.8	43.5	7.5	9.0	9.3	54.7	339.4	1901.0
71°	3960.0	3313.6	1940.2	187.0	41.3	7.8	9.3	9.6	52.3	312.7	1847.1
72°	3925.2	3284.1	1893.0	172.5	39.4	8.1	9.7	9.8	49.8	287.1	1803.8
73°	3881.7	3245.0	1841.6	159.5	37.4	8.4	10.0	10.1	47.7	263.5	1767.4
74°	3814.1	3211.2	1797.7	147.6	35.6	8.7	10.3	10.3	45.6	241.6	1721.7
75°	3762.8	3159.4	1744.6	136.1	33.7	9.0	10.7	10.4	44.0	220.8	1665.3
76°	3710.6	3111.3	1677.6	125.9	32.3	9.3	11.0	10.6	42.5	201.7	1623.9
77°	3626.1	3069.2	1635.7	116.3	31.4	9.6	11.4	10.7	41.3	184.6	1574.5
78°	3582.2	3025.6	1591.1	107.7	30.6	9.9	11.7	11.0	40.1	168.2	1519.5
79°	3514.7	2979.9	1540.3	99.4	30.2	10.2	12.1	11.2	38.7	153.6	1475.6
80°	3453.9	2930.0	1496.2	91.7	29.7	10.5	12.4	11.4	38.0	139.6	1429.1
81°	3373.6	2886.1	1440.5	84.5	29.4	10.8	12.8	11.7	37.2	127.0	1382.6
82°	3316.0	2833.1	1385.6	78.0	29.0	11.1	13.1	11.9	36.2	115.0	1328.6
83°	3244.2	2772.0	1336.4	72.0	28.7	11.4	13.5	12.2	35.8	104.5	1280.4
84°	3153.6	2711.5	1275.1	66.5	28.4	11.7	13.9	12.5	35.3	95.4	1236.0
85°	3088.0	2645.0	1226.8	61.1	28.2	12.0	14.2	12.8	35.1	87.1	1190.2
86°	3020.7	2585.8	1173.4	56.1	27.9	12.3	14.6	13.1	34.3	78.9	1143.0
87°	2951.3	2527.0	1123.6	51.8	27.5	12.6	14.9	13.4	33.7	71.7	1091.0
88°	2889.5	2465.5	1074.4	48.0	27.3	12.9	15.2	13.7	34.8	65.2	1042.4
89°	2820.6	2395.2	1020.8	45.0	27.1	13.2	15.6	13.9	34.8	59.5	995.4





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**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	2757.7	2328.5	972.7	42.7	26.8	13.4	15.9	14.2	34.6	54.7	943.8
91°	2688.4	2265.9	923.9	40.8	26.5	13.7	16.2	14.5	34.4	51.1	897.1
92°	2598.7	2200.9	870.2	39.3	26.3	14.0	16.5	14.7	33.0	48.8	849.0
93°	2522.3	2137.1	824.8	38.4	26.0	14.2	16.8	14.8	32.6	47.1	806.5
94°	2456.4	2068.6	775.9	38.0	25.8	14.5	17.0	14.9	32.4	45.9	762.4
95°	2383.1	2002.6	733.1	38.0	25.6	14.7	17.3	15.0	32.0	45.2	722.7
96°	2302.6	1930.0	690.4	38.2	25.3	15.0	17.5	15.1	31.8	44.8	680.1
97°	2225.7	1859.5	648.8	38.8	25.1	15.2	17.8	15.2	31.4	44.7	636.4
98°	2151.9	1787.0	615.2	39.5	24.7	15.4	18.0	15.3	31.1	44.7	598.8
99°	2089.8	1714.1	578.5	40.0	24.4	15.6	18.2	15.4	30.7	44.9	564.3
100°	2013.3	1645.4	544.2	40.5	24.2	15.8	18.4	15.5	30.3	45.2	532.1
101°	1926.3	1570.4	513.9	41.0	23.9	16.0	18.5	15.7	30.1	45.7	500.7
102°	1844.9	1488.7	480.8	41.5	23.4	16.2	18.7	15.8	29.7	46.3	471.0
103°	1772.4	1417.6	451.8	42.0	23.1	16.3	18.8	16.0	29.3	46.9	442.2
104°	1689.5	1345.0	424.6	42.3	22.7	16.5	18.9	16.2	29.0	47.5	415.7
105°	1603.7	1270.8	395.2	42.7	22.4	16.6	19.1	16.4	28.5	48.1	388.6
106°	1514.3	1205.6	370.9	42.9	22.3	16.8	19.1	16.5	28.4	48.6	358.7
107°	1433.1	1137.6	346.1	43.0	22.0	17.0	19.2	16.7	28.2	49.0	326.3
108°	1341.9	1076.1	321.4	43.1	21.8	17.1	19.2	16.8	27.8	49.3	295.5
109°	1245.4	1007.4	297.7	43.0	21.6	17.3	19.2	17.0	27.4	49.7	264.1
110°	1159.7	941.0	273.1	43.0	21.4	17.4	19.3	17.1	27.0	49.8	234.4
111°	1077.1	875.8	250.3	42.9	21.2	17.5	19.4	17.3	26.6	49.9	210.0
112°	996.8	805.8	230.9	42.7	20.9	17.7	19.4	17.4	26.2	49.8	189.1
113°	927.4	727.6	212.3	42.5	20.7	17.8	19.5	17.6	25.9	49.6	170.9
114°	860.2	649.6	195.5	42.2	20.6	17.9	19.5	17.7	25.4	49.2	153.9
115°	798.5	561.9	179.5	42.0	20.4	18.1	19.6	17.9	25.0	49.0	140.1
116°	728.5	483.6	164.7	41.8	20.3	18.2	19.6	18.1	24.7	48.7	126.0
117°	656.5	418.6	151.0	41.5	20.2	18.3	19.6	18.2	24.4	48.4	114.4
118°	572.2	360.8	138.9	41.1	20.1	18.5	19.7	18.3	24.1	47.9	104.9
119°	498.8	321.2	128.0	40.7	20.0	18.6	19.7	18.5	23.9	47.4	96.3
120°	437.1	292.7	118.4	40.1	19.9	18.7	19.8	18.6	23.6	46.6	88.4
121°	390.2	265.7	110.1	39.4	19.8	18.9	19.8	18.7	23.4	45.5	81.0
122°	356.6	242.1	104.2	38.5	19.8	19.0	19.8	18.9	23.1	44.1	74.9
123°	326.4	222.9	97.8	37.6	19.8	19.1	19.9	19.0	22.8	42.7	67.8
124°	297.1	201.7	90.1	36.5	19.7	19.3	20.0	19.2	22.6	41.1	60.3
125°	271.0	184.9	81.7	35.4	19.6	19.4	20.1	19.3	22.5	39.5	52.9
126°	245.4	164.6	75.2	34.3	19.6	19.5	20.1	19.4	22.3	37.9	47.1
127°	222.9	146.7	69.4	33.0	19.5	19.6	20.2	19.5	22.1	36.4	42.9
128°	201.8	129.8	64.0	31.8	19.4	19.8	20.2	19.7	21.8	35.0	38.9
129°	179.5	113.3	58.6	30.4	19.4	19.9	20.3	19.8	21.5	33.5	35.2
130°	159.4	99.9	53.7	29.1	19.3	20.0	20.4	19.9	21.2	31.9	31.4
131°	140.0	87.3	48.2	27.7	19.3	20.1	20.5	20.0	20.9	30.3	28.0
132°	118.1	75.9	42.8	26.5	19.1	20.2	20.6	20.1	20.6	28.7	25.0
133°	98.2	67.0	38.1	25.4	19.1	20.3	20.7	20.2	20.2	27.0	22.5
134°	83.5	58.7	33.8	24.2	19.0	20.4	20.8	20.3	19.8	25.2	20.3



REPORT NUMBER: P670582  
 CATALOG NUMBER: WXP120LSFSUNVDBZ-80W-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	70.0	50.6	30.5	23.2	18.8	20.5	20.8	20.4	19.3	23.4	18.7
136°	59.3	43.3	27.6	22.3	18.7	20.5	20.9	20.5	18.8	21.5	16.1
137°	50.2	37.3	24.6	21.4	18.6	20.6	21.0	20.5	18.1	19.6	13.4
138°	42.2	32.1	22.1	20.6	18.4	20.6	21.1	20.6	17.4	17.9	11.6
139°	35.1	26.8	20.8	19.9	18.3	20.7	21.2	20.7	16.8	16.3	11.0
140°	28.1	21.1	19.7	19.3	18.1	20.7	21.2	20.7	16.6	14.9	10.6
141°	22.1	17.4	18.9	18.6	18.0	20.7	21.3	20.6	16.4	13.7	10.4
142°	17.8	16.3	18.3	17.8	17.8	20.7	21.3	20.5	16.3	12.6	10.4
143°	13.7	14.8	17.9	17.1	17.6	20.7	21.3	20.5	16.2	11.8	10.7
144°	7.4	14.3	17.5	16.4	17.3	20.6	21.3	20.5	16.1	11.4	11.3
145°	5.4	14.5	16.9	15.7	17.0	20.6	21.3	20.4	16.1	11.2	12.0
146°	5.2	14.1	17.0	15.0	16.9	20.5	21.3	20.3	16.0	11.2	12.6
147°	5.1	12.8	17.0	14.2	16.8	20.4	21.2	20.1	15.8	11.3	13.2
148°	5.1	12.0	17.3	13.5	16.8	20.3	21.1	20.1	15.6	11.5	13.8
149°	5.1	11.4	17.7	13.1	16.8	20.2	21.0	19.8	15.5	11.6	14.1
150°	5.2	11.0	18.2	12.8	16.8	20.1	20.9	19.7	15.4	11.8	14.6
151°	4.9	10.5	18.9	12.7	16.8	20.0	20.8	19.5	15.3	11.9	13.9
152°	4.7	9.4	18.3	12.8	16.8	19.8	20.6	19.3	15.2	12.0	12.9
153°	4.6	8.6	17.1	12.9	16.8	19.6	20.4	19.2	15.2	12.2	12.2
154°	5.0	9.2	16.1	13.0	16.8	19.5	20.2	19.0	15.1	12.3	11.5
155°	5.1	9.8	15.0	13.1	16.8	19.3	20.0	18.8	15.0	12.4	10.9
156°	5.4	10.3	13.6	13.3	16.7	19.1	19.8	18.6	15.0	12.5	11.0
157°	5.8	10.8	13.2	13.4	16.7	18.9	19.5	18.2	14.9	12.6	11.0
158°	6.3	11.2	12.9	13.5	16.7	18.8	19.3	18.0	14.9	12.8	11.1
159°	6.9	11.3	12.7	13.6	16.6	18.6	19.0	17.8	14.8	12.9	11.2
160°	7.4	11.4	12.6	13.7	16.6	18.4	18.7	17.6	14.7	13.0	11.3
161°	7.8	11.5	12.4	13.8	16.5	18.2	18.5	17.3	14.5	13.1	11.4
162°	8.1	11.7	12.3	13.9	16.5	17.9	18.2	17.2	14.4	13.2	11.6
163°	8.5	11.6	12.2	13.9	16.4	17.8	17.9	17.0	14.4	13.3	11.7
164°	8.6	10.9	12.2	14.0	16.3	17.5	17.6	16.7	14.3	13.4	11.8
165°	8.8	10.3	12.1	14.1	16.2	17.3	17.3	16.3	14.3	13.5	11.9
166°	8.8	9.5	12.1	14.2	16.1	17.1	17.0	16.1	14.2	13.6	12.0
167°	8.8	9.6	11.6	14.2	16.0	16.9	16.7	15.8	14.0	13.7	12.1
168°	9.0	9.8	11.3	14.3	15.9	16.7	16.5	15.6	13.9	13.8	12.2
169°	9.3	10.0	11.4	14.4	15.8	16.5	16.2	15.3	13.8	13.9	12.4
170°	9.7	10.2	11.4	14.4	15.7	16.2	15.8	15.1	13.7	13.9	12.5
171°	10.1	10.4	11.4	14.4	15.5	16.0	15.5	14.8	13.5	14.0	12.6
172°	10.5	10.7	11.6	14.5	15.4	15.7	15.2	14.6	13.4	14.1	12.8
173°	10.9	10.9	11.7	14.5	15.2	15.4	14.9	14.3	13.2	14.1	12.9
174°	11.3	11.2	11.8	14.5	15.1	15.2	14.5	14.0	13.0	14.2	13.0
175°	11.6	11.5	11.8	14.6	14.9	14.9	14.2	13.7	12.8	14.2	13.2
176°	12.0	11.7	11.7	14.6	14.8	14.6	13.8	13.4	12.1	14.3	13.4
177°	12.3	11.9	11.6	14.6	14.6	14.3	13.5	13.1	11.9	14.4	13.6
178°	12.4	11.9	11.6	14.5	14.4	14.0	13.2	12.6	11.8	14.4	13.8
179°	12.5	11.9	11.6	14.5	14.2	13.7	12.8	12.1	11.7	14.5	13.9



REPORT NUMBER: P670582  
CATALOG NUMBER: WXPM120LSFSUNVDBZ-80W-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6



REPORT NUMBER: P670582  
CATALOG NUMBER: WXPM120LSFSUNVDBZ-80W-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
0°	2009.0	2009.0
1°	2143.2	2191.7
2°	2286.1	2375.0
3°	2460.7	2576.3
4°	2635.5	2755.5
5°	2835.9	2945.2
6°	2983.1	3113.3
7°	3106.9	3260.4
8°	3217.6	3394.8
9°	3295.5	3573.0
10°	3425.9	3705.6
11°	3536.0	3819.7
12°	3605.3	3979.5
13°	3769.5	4070.7
14°	3887.1	4136.1
15°	4043.6	4176.5
16°	4088.3	4223.0
17°	4119.2	4219.0
18°	4120.0	4278.4
19°	4034.2	4335.9
20°	4000.5	4315.0
21°	4009.0	4356.0
22°	4053.6	4298.1
23°	4112.0	4297.0
24°	4125.9	4219.2
25°	4114.6	4207.1
26°	4053.4	4152.8
27°	3967.7	4124.5
28°	3887.1	4120.3
29°	3803.9	4060.6
30°	3790.8	4063.7
31°	3800.5	4011.3
32°	3766.5	4010.8
33°	3709.6	3944.8
34°	3654.7	3967.6
35°	3582.7	3913.0
36°	3527.7	3885.5
37°	3460.1	3878.8
38°	3437.0	3879.6
39°	3403.5	3841.2
40°	3404.4	3842.5
41°	3382.1	3814.3
42°	3370.0	3779.4
43°	3298.5	3813.7
44°	3274.8	3780.8



REPORT NUMBER: P670582  
CATALOG NUMBER: WXPM120LSFSUNVDBZ-80W-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
45°	3242.4	3791.1
46°	3205.9	3824.4
47°	3194.9	3801.7
48°	3190.4	3863.7
49°	3170.8	3860.5
50°	3184.1	3934.6
51°	3190.4	4008.1
52°	3189.1	4117.3
53°	3213.8	4170.9
54°	3232.6	4228.7
55°	3266.4	4250.3
56°	3293.9	4276.8
57°	3322.4	4312.0
58°	3342.2	4322.2
59°	3340.9	4316.4
60°	3337.1	4312.9
61°	3336.5	4312.8
62°	3331.0	4296.0
63°	3324.6	4269.0
64°	3317.2	4260.1
65°	3299.1	4246.1
66°	3285.0	4192.4
67°	3273.1	4134.7
68°	3268.3	4111.3
69°	3247.5	4078.6
70°	3225.7	4010.4
71°	3188.1	3960.0
72°	3164.8	3925.2
73°	3126.5	3881.7
74°	3089.0	3814.1
75°	3051.9	3762.8
76°	3012.0	3710.6
77°	2961.4	3626.1
78°	2916.7	3582.2
79°	2871.7	3514.7
80°	2811.0	3453.9
81°	2757.8	3373.6
82°	2703.9	3316.0
83°	2636.8	3244.2
84°	2572.9	3153.6
85°	2507.1	3088.0
86°	2445.6	3020.7
87°	2379.9	2951.3
88°	2317.4	2889.5
89°	2253.8	2820.6



REPORT NUMBER: P670582  
CATALOG NUMBER: WXPM120LSFSUNVDBZ-80W-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
90°	2183.5	2757.7
91°	2122.9	2688.4
92°	2061.1	2598.7
93°	1990.2	2522.3
94°	1923.4	2456.4
95°	1858.5	2383.1
96°	1790.1	2302.6
97°	1724.4	2225.7
98°	1655.3	2151.9
99°	1588.8	2089.8
100°	1518.6	2013.3
101°	1449.6	1926.3
102°	1374.4	1844.9
103°	1301.9	1772.4
104°	1232.3	1689.5
105°	1161.1	1603.7
106°	1085.2	1514.3
107°	1010.8	1433.1
108°	940.6	1341.9
109°	869.1	1245.4
110°	806.4	1159.7
111°	745.7	1077.1
112°	686.7	996.8
113°	627.0	927.4
114°	569.4	860.2
115°	500.6	798.5
116°	431.5	728.5
117°	375.5	656.5
118°	330.6	572.2
119°	296.0	498.8
120°	268.8	437.1
121°	243.6	390.2
122°	220.8	356.6
123°	200.6	326.4
124°	181.0	297.1
125°	162.9	271.0
126°	144.3	245.4
127°	127.5	222.9
128°	110.7	201.8
129°	94.1	179.5
130°	80.1	159.4
131°	67.6	140.0
132°	56.8	118.1
133°	48.3	98.2
134°	40.6	83.5



REPORT NUMBER: P670582  
CATALOG NUMBER: WXPM120LSFSUNVDBZ-80W-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
135°	34.1	70.0
136°	28.2	59.3
137°	23.4	50.2
138°	19.3	42.2
139°	14.8	35.1
140°	9.7	28.1
141°	7.8	22.1
142°	7.7	17.8
143°	7.8	13.7
144°	8.3	7.4
145°	8.7	5.4
146°	8.4	5.2
147°	7.8	5.1
148°	7.5	5.1
149°	7.2	5.1
150°	7.1	5.2
151°	6.7	4.9
152°	6.5	4.7
153°	7.1	4.6
154°	7.4	5.0
155°	7.7	5.1
156°	8.1	5.4
157°	8.4	5.8
158°	8.6	6.3
159°	8.7	6.9
160°	8.8	7.4
161°	9.0	7.8
162°	9.0	8.1
163°	8.9	8.5
164°	9.0	8.6
165°	9.1	8.8
166°	9.4	8.8
167°	9.7	8.8
168°	10.0	9.0
169°	10.4	9.3
170°	10.7	9.7
171°	11.1	10.1
172°	11.4	10.5
173°	11.8	10.9
174°	12.1	11.3
175°	12.5	11.6
176°	12.8	12.0
177°	13.0	12.3
178°	13.2	12.4
179°	13.4	12.5



REPORT NUMBER: P670582  
CATALOG NUMBER: WXPM120LSFSUNVDBZ-80W-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
180°	12.6	12.6

(END OF REPORT)