

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: P670580

Luminaire Tested: WXPM120LSFSUNVDBZ-70W-5000K

Issue Date: 4/4/2023

Test Information

Test Method: LM-79-2019
Report Number: P670580
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-70W-5000K
Description: WALL PACK
Light Source:
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9794 lumens
Efficiency: N/A
Efficacy: 141.9 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

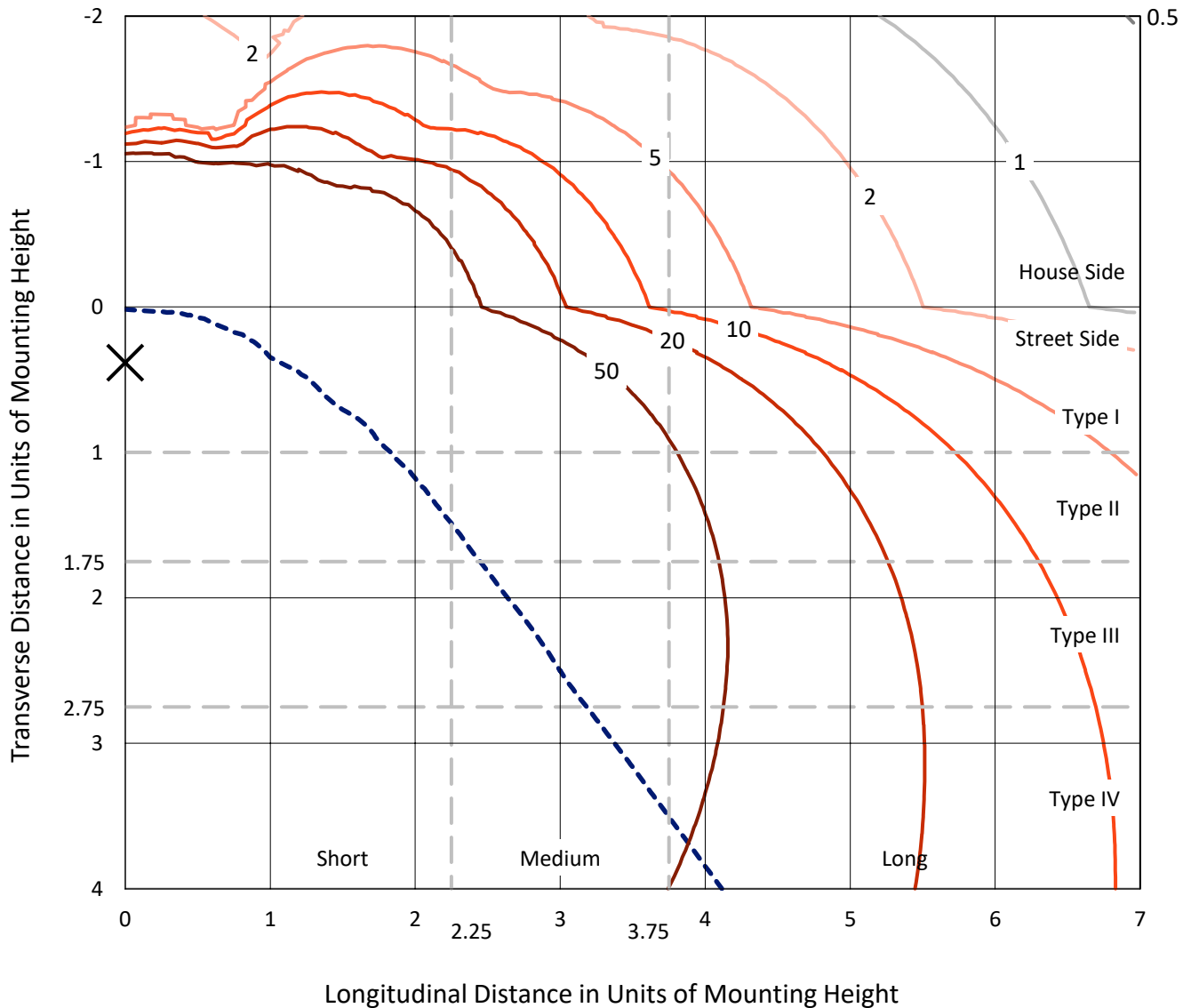
Input Watts (W): 69
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

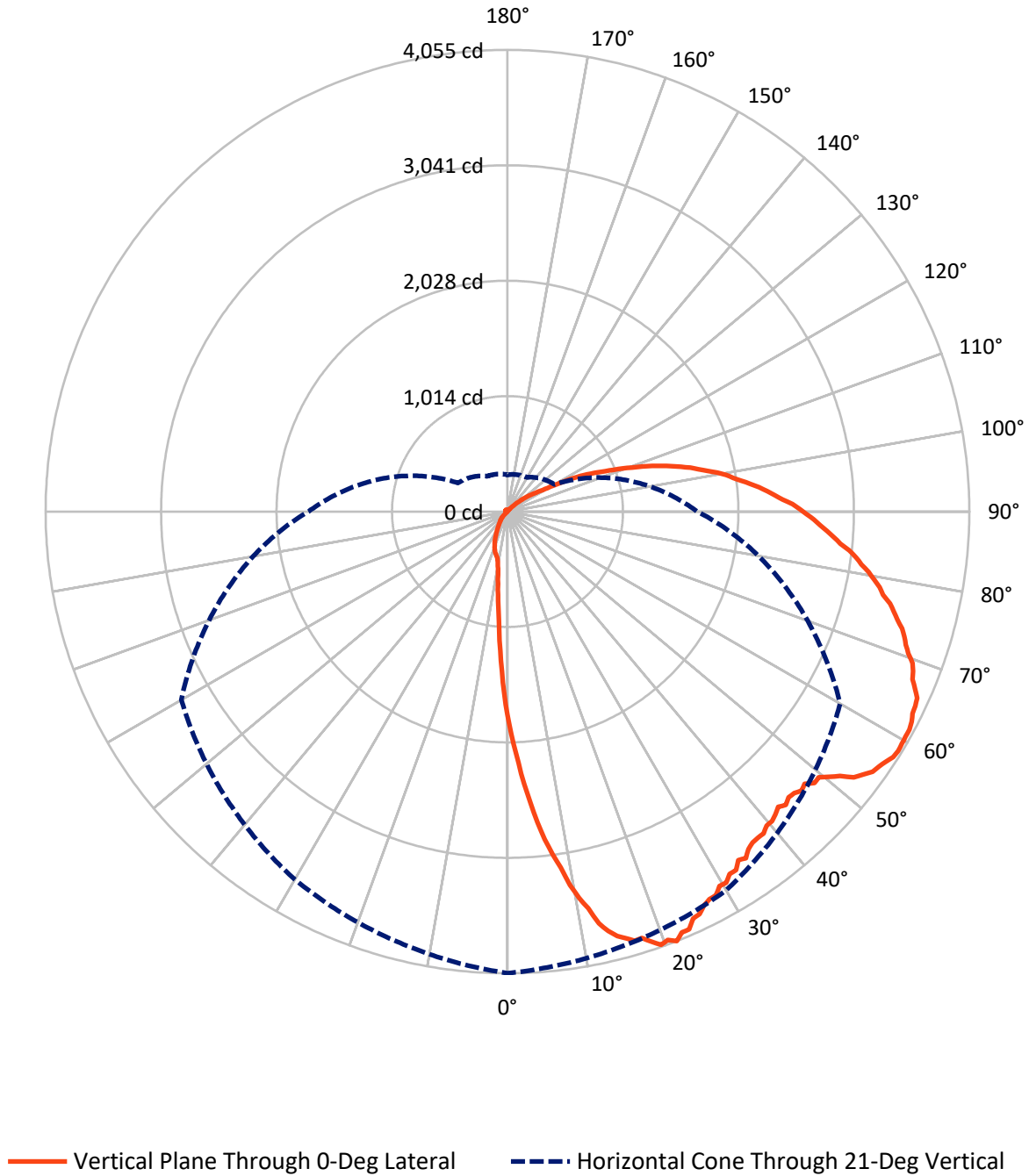
× Max cd
 - - - 1/2 Max cd



Based on 0.5 foot mounting height. Maximum calculated value = 14068.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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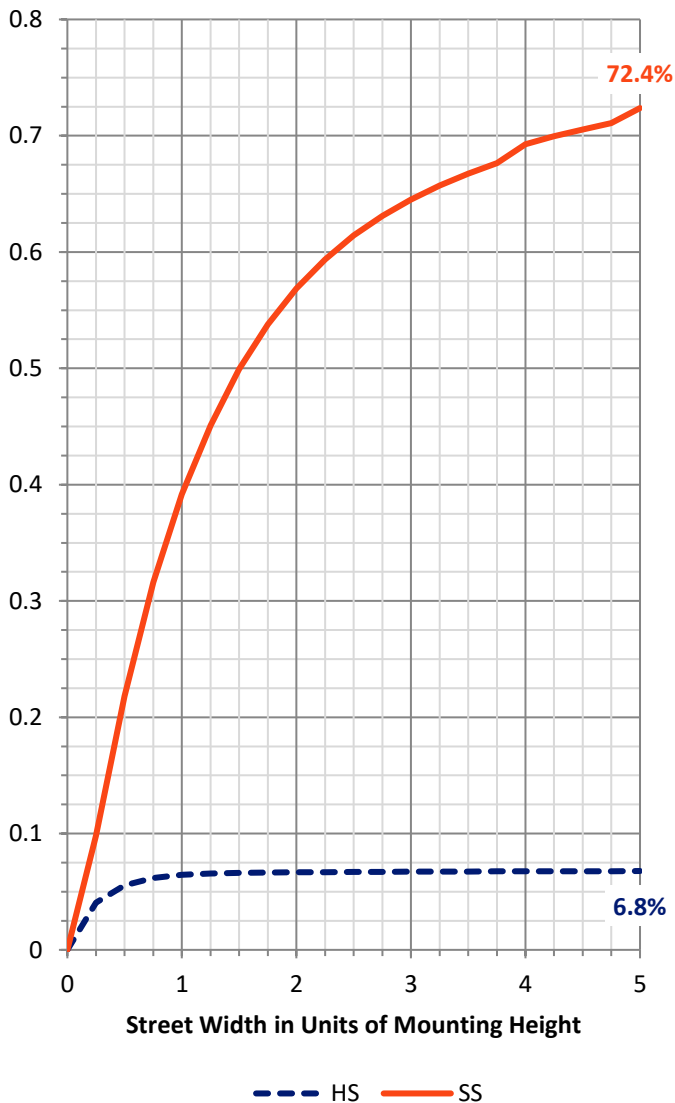
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	674.7	64.7	739.4
	% Fixture	6.9	0.7	7.5
Street Side	Lumens	7743.4	1311.2	9054.6
	% Fixture	79.1	13.4	92.5
Total	Lumens	8418.1	1375.9	9794.0
	% Fixture	86.0	14.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.9	1.8
10°-20°	552.2	5.6
20°-30°	892.9	9.1
30°-40°	1081.5	11.0
40°-50°	1161.5	11.9
50°-60°	1244.0	12.7
60°-70°	1250.7	12.8
70°-80°	1134.2	11.6
80°-90°	924.1	9.4
90°-100°	668.2	6.8
100°-110°	412.5	4.2
110°-120°	186.5	1.9
120°-130°	66.5	0.7
130°-140°	22.4	0.2
140°-150°	9.1	0.1
150°-160°	6.0	0.1
160°-170°	3.6	0.0
170°-180°	1.2	0.0
0°-90°	8418.1	86.0
0°-180°	9794.0	100.0

Coefficient of Utilization

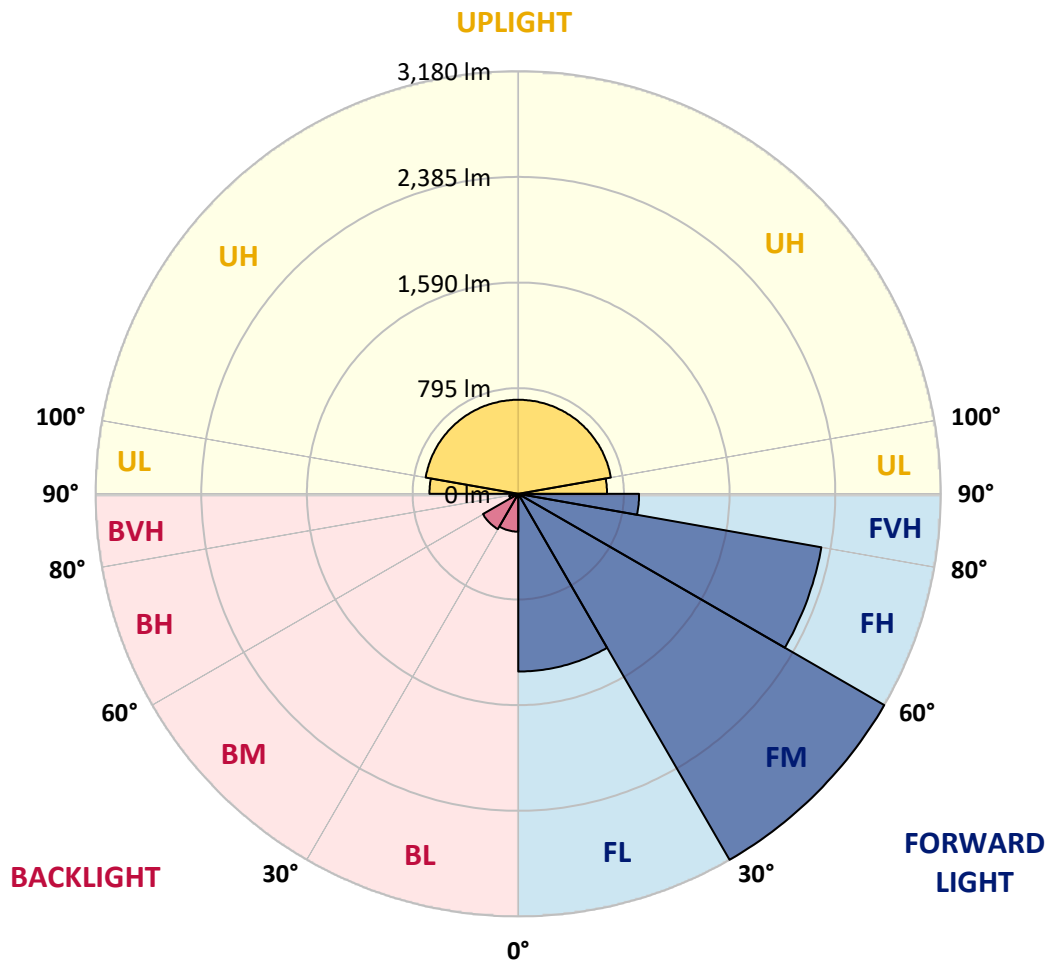


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1337.4	13.7			
FM	(30°-60°)	3180.4	32.5			
FH	(60°-80°)	2316.6	23.7			G2/5000
FVH	(80°-90°)	909.0	9.3			G5
BL	(0°-30°)	284.6	2.9	B1/500		
BM	(30°-60°)	306.6	3.1	B1/1000		
BH	(60°-80°)	68.4	0.7	B0/110		G0/110
BVH	(80°-90°)	15.2	0.2			G1/100
UL	(90°-100°)	668.2	6.8		U4/1000	
UH	(100°-180°)	707.7	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°	1870.4	1870.4	1870.4	1870.4	1870.4	1870.4	1870.4	1870.4	1870.4	1870.4	1870.4
1°	2040.5	2032.6	1971.3	1875.1	1789.3	1722.5	1695.2	1703.6	1760.6	1844.8	1923.7
2°	2211.1	2186.2	2061.2	1872.5	1699.0	1575.4	1504.8	1529.9	1678.1	1864.0	2011.0
3°	2398.5	2361.7	2149.4	1860.6	1612.5	1404.7	1309.3	1362.0	1598.9	1887.2	2118.8
4°	2565.3	2511.6	2219.1	1836.7	1510.7	1241.9	1136.0	1202.6	1502.9	1876.6	2224.9
5°	2741.9	2656.3	2271.5	1815.7	1400.2	1085.3	963.1	1050.6	1386.0	1860.6	2272.4
6°	2898.5	2795.9	2359.7	1815.2	1294.2	949.8	841.5	937.2	1280.9	1873.8	2336.1
7°	3035.4	2915.4	2429.4	1787.2	1204.4	842.7	735.5	838.7	1196.8	1890.4	2439.2
8°	3160.6	3021.1	2496.6	1748.8	1108.0	744.0	641.3	743.6	1114.8	1876.1	2560.6
9°	3326.4	3140.3	2544.3	1737.4	1014.3	657.9	563.4	659.1	1028.8	1859.6	2636.6
10°	3449.9	3284.2	2567.1	1752.8	930.7	585.9	506.9	589.5	951.8	1838.4	2687.7
11°	3556.1	3404.8	2707.6	1740.7	868.5	529.3	466.9	535.7	890.3	1854.8	2731.5
12°	3704.9	3528.7	2795.4	1731.3	810.2	488.3	436.5	496.8	831.1	1870.9	2770.1
13°	3789.8	3613.6	2853.4	1734.8	755.6	456.4	415.6	467.7	784.3	1860.9	2850.6
14°	3850.6	3715.9	2901.4	1720.4	705.4	429.8	403.3	442.9	736.4	1836.5	2949.7
15°	3888.3	3745.3	2969.4	1726.9	661.7	408.5	394.6	423.0	690.2	1820.0	3051.1
16°	3931.6	3744.0	3060.1	1732.2	621.9	391.8	385.6	408.3	645.9	1817.6	3064.0
17°	3927.8	3735.5	3158.0	1725.6	585.9	380.3	376.2	397.7	608.1	1804.4	3071.3
18°	3983.1	3794.9	3245.1	1701.5	555.7	371.4	366.0	387.8	576.2	1774.9	3109.4
19°	4036.6	3832.4	3278.4	1699.5	528.0	363.7	351.3	378.3	547.6	1772.5	3170.2
20°	4017.2	3844.5	3317.9	1697.0	500.5	355.4	339.3	367.9	523.5	1771.0	3244.1
21°	4055.3	3840.4	3372.3	1667.1	476.4	346.5	323.0	358.1	503.3	1748.4	3306.6
22°	4001.5	3888.3	3439.8	1642.1	454.3	332.6	308.5	342.8	486.0	1742.0	3305.2
23°	4000.5	3906.1	3480.4	1588.5	433.8	322.0	292.6	331.6	468.6	1731.2	3301.1
24°	3928.0	3961.9	3493.0	1571.3	412.8	307.7	277.0	315.5	450.6	1707.0	3304.7
25°	3916.8	3896.9	3499.9	1523.2	392.6	294.3	259.4	301.9	434.2	1697.1	3337.8
26°	3866.2	3876.3	3497.8	1473.6	373.8	281.4	243.2	288.4	418.7	1688.0	3384.7
27°	3839.8	3786.8	3512.8	1444.3	359.0	266.1	226.2	271.1	402.5	1671.9	3399.8
28°	3835.9	3747.2	3550.9	1434.6	346.5	252.6	210.8	254.8	389.0	1665.2	3405.0
29°	3780.4	3713.4	3496.6	1416.5	335.6	237.1	195.3	240.7	377.6	1653.8	3344.0
30°	3783.2	3652.6	3436.8	1381.5	324.9	222.2	181.7	227.8	368.0	1634.9	3285.6
31°	3734.5	3673.7	3406.0	1348.2	314.9	208.0	168.2	214.9	358.2	1602.1	3268.6
32°	3734.0	3676.2	3349.6	1309.6	305.8	195.1	157.0	202.5	349.4	1576.1	3247.1
33°	3672.6	3640.5	3267.9	1271.3	297.4	182.9	145.3	191.4	340.6	1531.1	3251.8
34°	3693.8	3611.2	3265.4	1236.7	288.4	171.6	133.9	180.2	331.6	1490.3	3206.2
35°	3642.9	3589.5	3261.3	1200.2	279.8	160.6	125.2	169.9	320.5	1460.1	3159.6
36°	3617.4	3559.6	3212.1	1159.2	272.6	150.3	116.4	159.6	312.6	1441.9	3136.8
37°	3611.1	3514.8	3184.2	1136.0	265.4	139.8	107.0	149.9	304.7	1409.3	3089.0
38°	3611.9	3475.8	3206.6	1123.0	256.1	129.6	101.7	140.1	293.6	1379.0	2981.2
39°	3576.1	3442.7	3177.5	1128.2	248.8	119.3	98.9	130.8	284.2	1316.3	2926.4
40°	3577.3	3388.2	3147.5	1100.8	240.8	109.9	93.3	121.6	275.4	1279.6	2848.1
41°	3551.1	3363.3	3169.0	1065.2	231.9	100.7	87.1	112.9	264.7	1240.2	2779.6
42°	3518.6	3327.5	3091.2	1006.8	223.2	91.9	80.7	104.2	256.1	1221.1	2727.8
43°	3550.5	3287.1	2961.5	956.3	213.8	83.3	73.2	95.6	246.6	1204.8	2685.1
44°	3519.9	3289.6	2885.4	926.9	205.9	75.3	63.1	87.3	236.9	1185.4	2616.3



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CATALOG NUMBER: WXP120LSFSUNVDBZ-70W-5000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	3529.5	3322.4	2793.8	942.6	197.1	67.5	52.4	78.9	227.1	1168.5	2567.2
46°	3560.5	3330.3	2690.4	925.6	189.2	59.7	43.5	70.2	217.3	1134.8	2562.5
47°	3539.3	3262.2	2644.1	896.4	180.1	52.2	31.0	61.3	208.0	1089.2	2538.3
48°	3597.1	3219.2	2638.9	853.2	172.0	45.3	21.6	52.9	198.6	1048.4	2487.7
49°	3594.1	3202.8	2646.7	816.9	162.8	38.0	4.3	44.1	189.5	1018.8	2451.2
50°	3663.1	3185.1	2626.5	800.6	154.1	31.2	3.2	36.3	180.9	1003.3	2414.7
51°	3731.5	3211.7	2633.3	774.9	145.1	23.2	3.4	28.2	172.7	974.3	2336.2
52°	3833.2	3207.5	2647.9	724.4	137.1	15.2	3.6	19.8	164.8	925.5	2302.0
53°	3883.0	3219.2	2602.8	686.2	128.6	3.7	3.8	8.1	156.3	874.8	2245.4
54°	3936.9	3256.2	2533.4	670.0	121.2	3.3	4.0	4.9	148.3	848.5	2184.2
55°	3957.0	3279.6	2480.8	637.4	113.0	3.5	4.3	4.9	140.0	838.4	2176.9
56°	3981.7	3299.7	2406.1	592.5	105.6	3.7	4.5	5.1	131.6	803.2	2180.2
57°	4014.4	3295.7	2359.1	556.3	98.5	3.9	4.7	5.3	123.0	761.0	2173.4
58°	4023.9	3309.9	2314.0	529.7	91.8	4.1	5.0	5.5	115.2	730.9	2160.0
59°	4018.5	3304.3	2304.1	501.7	85.3	4.3	5.2	5.7	107.6	692.5	2126.0
60°	4015.2	3292.7	2308.3	469.3	78.9	4.6	5.5	6.0	100.2	645.5	2086.7
61°	4015.2	3262.4	2282.4	435.6	73.0	4.8	5.8	6.2	93.2	605.7	2030.4
62°	3999.5	3266.3	2241.8	405.8	67.0	5.0	6.0	6.5	86.4	568.8	1994.2
63°	3974.4	3251.1	2165.4	371.6	61.7	5.2	6.3	6.8	80.1	534.4	1968.2
64°	3966.1	3235.8	2106.0	338.8	56.7	5.5	6.6	7.1	74.2	499.2	1949.5
65°	3953.0	3224.3	2075.5	306.6	52.8	5.7	6.9	7.3	68.7	463.8	1933.7
66°	3903.1	3215.7	2038.6	279.0	49.5	6.0	7.2	7.6	63.6	429.8	1889.0
67°	3849.3	3201.1	1993.1	253.0	46.9	6.2	7.5	7.9	59.4	398.1	1858.2
68°	3827.6	3175.5	1947.7	226.8	44.6	6.5	7.8	8.2	56.2	367.9	1823.2
69°	3797.1	3140.5	1898.9	207.2	42.7	6.7	8.1	8.4	53.4	341.1	1794.5
70°	3733.6	3119.5	1863.4	189.7	40.5	7.0	8.4	8.6	50.9	316.0	1769.8
71°	3686.7	3084.9	1806.3	174.1	38.5	7.3	8.7	8.9	48.7	291.1	1719.6
72°	3654.3	3057.4	1762.4	160.6	36.7	7.5	9.0	9.2	46.4	267.3	1679.4
73°	3613.8	3021.1	1714.5	148.5	34.9	7.8	9.3	9.4	44.4	245.3	1645.4
74°	3550.9	2989.6	1673.6	137.4	33.1	8.1	9.6	9.6	42.5	224.9	1602.9
75°	3503.1	2941.4	1624.2	126.7	31.3	8.4	9.9	9.7	41.0	205.5	1550.4
76°	3454.6	2896.6	1561.8	117.2	30.1	8.6	10.3	9.8	39.5	187.8	1511.8
77°	3375.8	2857.4	1522.9	108.2	29.2	8.9	10.6	10.0	38.4	171.9	1465.8
78°	3335.0	2816.8	1481.3	100.3	28.5	9.2	10.9	10.2	37.3	156.6	1414.6
79°	3272.1	2774.3	1434.0	92.5	28.1	9.5	11.3	10.4	36.0	143.0	1373.7
80°	3215.5	2727.8	1392.9	85.4	27.7	9.8	11.6	10.6	35.4	130.0	1330.5
81°	3140.8	2686.9	1341.1	78.7	27.3	10.0	11.9	10.9	34.6	118.2	1287.2
82°	3087.2	2637.6	1289.9	72.6	27.0	10.3	12.2	11.1	33.7	107.1	1236.9
83°	3020.3	2580.7	1244.1	67.1	26.7	10.6	12.6	11.3	33.3	97.3	1192.0
84°	2936.0	2524.4	1187.1	61.9	26.4	10.9	12.9	11.6	32.9	88.8	1150.7
85°	2874.9	2462.5	1142.2	56.9	26.3	11.2	13.2	11.9	32.7	81.1	1108.1
86°	2812.2	2407.4	1092.4	52.2	26.0	11.4	13.5	12.2	31.9	73.4	1064.1
87°	2747.7	2352.6	1046.0	48.3	25.6	11.7	13.9	12.5	31.4	66.7	1015.7
88°	2690.1	2295.3	1000.3	44.7	25.4	12.0	14.2	12.7	32.4	60.7	970.5
89°	2625.9	2229.9	950.4	41.9	25.3	12.3	14.5	13.0	32.4	55.4	926.7



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	2567.4	2167.8	905.6	39.7	24.9	12.5	14.8	13.2	32.2	50.9	878.7
91°	2502.9	2109.5	860.1	38.0	24.6	12.8	15.1	13.5	32.0	47.6	835.2
92°	2419.4	2049.0	810.2	36.6	24.5	13.0	15.4	13.7	30.7	45.5	790.4
93°	2348.2	1989.6	767.8	35.8	24.2	13.3	15.6	13.8	30.3	43.9	750.8
94°	2286.9	1925.9	722.3	35.4	24.1	13.5	15.9	13.9	30.2	42.8	709.8
95°	2218.6	1864.4	682.5	35.4	23.8	13.7	16.1	13.9	29.8	42.0	672.8
96°	2143.7	1796.8	642.7	35.5	23.6	13.9	16.3	14.1	29.6	41.7	633.2
97°	2072.1	1731.1	604.0	36.1	23.3	14.1	16.5	14.2	29.3	41.6	592.5
98°	2003.4	1663.7	572.7	36.7	23.0	14.3	16.7	14.3	28.9	41.6	557.5
99°	1945.6	1595.8	538.6	37.2	22.7	14.5	16.9	14.3	28.5	41.8	525.3
100°	1874.3	1531.9	506.7	37.7	22.6	14.7	17.1	14.4	28.2	42.1	495.4
101°	1793.3	1462.0	478.5	38.1	22.2	14.9	17.2	14.6	28.0	42.5	466.1
102°	1717.5	1385.9	447.6	38.6	21.8	15.0	17.4	14.7	27.6	43.1	438.5
103°	1650.0	1319.8	420.6	39.1	21.5	15.2	17.5	14.9	27.3	43.7	411.7
104°	1572.9	1252.2	395.3	39.4	21.2	15.4	17.6	15.1	27.0	44.2	387.1
105°	1493.0	1183.1	368.0	39.8	20.9	15.5	17.7	15.2	26.5	44.7	361.8
106°	1409.8	1122.4	345.3	39.9	20.7	15.6	17.8	15.4	26.4	45.2	334.0
107°	1334.2	1059.1	322.2	40.0	20.5	15.8	17.8	15.5	26.2	45.6	303.8
108°	1249.3	1001.8	299.2	40.1	20.3	15.9	17.9	15.7	25.9	45.9	275.1
109°	1159.5	937.9	277.2	40.0	20.1	16.1	17.9	15.8	25.5	46.2	245.8
110°	1079.7	876.1	254.3	40.0	19.9	16.2	18.0	15.9	25.1	46.4	218.2
111°	1002.7	815.4	233.0	39.9	19.7	16.3	18.0	16.1	24.8	46.4	195.5
112°	928.0	750.2	215.0	39.8	19.5	16.4	18.1	16.2	24.4	46.3	176.1
113°	863.4	677.4	197.7	39.6	19.3	16.6	18.1	16.4	24.1	46.1	159.1
114°	800.9	604.8	182.0	39.3	19.1	16.7	18.2	16.5	23.7	45.8	143.3
115°	743.4	523.1	167.1	39.1	19.0	16.8	18.2	16.7	23.3	45.6	130.5
116°	678.3	450.2	153.3	38.9	18.9	16.9	18.2	16.8	23.0	45.3	117.3
117°	611.2	389.7	140.5	38.6	18.8	17.1	18.3	17.0	22.7	45.0	106.5
118°	532.7	335.9	129.3	38.3	18.7	17.2	18.3	17.1	22.5	44.6	97.6
119°	464.4	299.0	119.2	37.9	18.6	17.3	18.3	17.2	22.2	44.2	89.7
120°	406.9	272.5	110.2	37.3	18.5	17.4	18.4	17.3	22.0	43.4	82.3
121°	363.3	247.3	102.5	36.6	18.5	17.6	18.4	17.4	21.7	42.3	75.4
122°	332.0	225.4	97.0	35.9	18.4	17.7	18.5	17.6	21.5	41.1	69.7
123°	303.8	207.5	91.1	35.0	18.4	17.8	18.5	17.7	21.3	39.8	63.1
124°	276.6	187.7	83.9	34.0	18.3	17.9	18.6	17.8	21.1	38.3	56.2
125°	252.3	172.2	76.1	33.0	18.3	18.0	18.7	17.9	20.9	36.7	49.3
126°	228.5	153.3	70.0	31.9	18.2	18.2	18.7	18.1	20.7	35.3	43.9
127°	207.5	136.6	64.6	30.7	18.2	18.3	18.8	18.2	20.5	33.9	39.9
128°	187.9	120.8	59.5	29.6	18.1	18.4	18.8	18.3	20.3	32.6	36.3
129°	167.1	105.5	54.6	28.3	18.0	18.5	18.9	18.4	20.0	31.1	32.8
130°	148.4	93.0	50.0	27.0	18.0	18.6	19.0	18.5	19.7	29.7	29.3
131°	130.3	81.3	44.9	25.8	17.9	18.7	19.1	18.6	19.5	28.2	26.1
132°	110.0	70.7	39.9	24.7	17.8	18.8	19.2	18.7	19.2	26.7	23.2
133°	91.4	62.4	35.5	23.6	17.7	18.9	19.3	18.8	18.8	25.1	20.9
134°	77.7	54.6	31.5	22.6	17.6	19.0	19.3	18.9	18.4	23.5	18.9



REPORT NUMBER: P670580
 CATALOG NUMBER: WXP120LSFSUNVDBZ-70W-5000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	65.1	47.1	28.4	21.6	17.5	19.0	19.4	19.0	18.0	21.8	17.4
136°	55.2	40.3	25.7	20.7	17.4	19.1	19.5	19.1	17.5	20.0	15.0
137°	46.7	34.7	22.9	19.9	17.3	19.2	19.6	19.1	16.9	18.2	12.5
138°	39.3	29.9	20.6	19.2	17.2	19.2	19.6	19.2	16.2	16.7	10.8
139°	32.6	24.9	19.4	18.6	17.0	19.3	19.7	19.2	15.7	15.2	10.2
140°	26.1	19.7	18.4	17.9	16.9	19.3	19.8	19.3	15.5	13.9	9.9
141°	20.6	16.2	17.6	17.3	16.7	19.3	19.8	19.2	15.3	12.7	9.7
142°	16.6	15.1	17.0	16.6	16.5	19.3	19.8	19.1	15.1	11.7	9.7
143°	12.7	13.8	16.6	16.0	16.4	19.2	19.9	19.1	15.1	11.0	10.0
144°	6.9	13.3	16.3	15.3	16.1	19.2	19.9	19.1	15.0	10.6	10.5
145°	5.0	13.5	15.8	14.6	15.8	19.1	19.8	19.0	15.0	10.5	11.2
146°	4.8	13.1	15.8	13.9	15.7	19.1	19.8	18.9	14.9	10.5	11.8
147°	4.7	11.9	15.9	13.2	15.7	19.0	19.7	18.7	14.7	10.6	12.3
148°	4.7	11.1	16.1	12.6	15.7	18.9	19.7	18.7	14.6	10.7	12.8
149°	4.8	10.6	16.5	12.2	15.7	18.8	19.6	18.5	14.4	10.8	13.2
150°	4.8	10.2	16.9	11.9	15.7	18.7	19.5	18.3	14.3	10.9	13.6
151°	4.6	9.8	17.6	11.9	15.7	18.6	19.3	18.1	14.3	11.1	12.9
152°	4.4	8.7	17.0	11.9	15.6	18.4	19.2	17.9	14.2	11.2	12.0
153°	4.3	8.0	15.9	12.0	15.6	18.3	19.0	17.9	14.1	11.3	11.3
154°	4.6	8.6	14.9	12.1	15.6	18.1	18.8	17.7	14.0	11.4	10.7
155°	4.8	9.1	14.0	12.2	15.6	18.0	18.6	17.5	14.0	11.5	10.2
156°	5.0	9.6	12.7	12.3	15.6	17.8	18.4	17.3	13.9	11.7	10.2
157°	5.4	10.1	12.2	12.5	15.6	17.6	18.2	17.0	13.9	11.8	10.2
158°	5.9	10.4	12.1	12.6	15.5	17.5	17.9	16.8	13.8	11.9	10.3
159°	6.4	10.5	11.9	12.7	15.5	17.3	17.7	16.6	13.8	12.0	10.4
160°	6.9	10.7	11.7	12.7	15.4	17.1	17.5	16.4	13.7	12.1	10.5
161°	7.3	10.7	11.6	12.8	15.4	16.9	17.2	16.2	13.5	12.2	10.6
162°	7.5	10.9	11.5	12.9	15.3	16.7	16.9	16.0	13.5	12.3	10.8
163°	7.9	10.8	11.4	13.0	15.3	16.5	16.7	15.8	13.4	12.4	10.9
164°	8.0	10.2	11.4	13.1	15.2	16.3	16.4	15.5	13.3	12.5	11.0
165°	8.2	9.6	11.3	13.1	15.1	16.1	16.1	15.2	13.3	12.6	11.1
166°	8.2	8.8	11.3	13.2	15.0	15.9	15.9	15.0	13.2	12.7	11.2
167°	8.2	8.9	10.8	13.2	14.9	15.8	15.6	14.7	13.1	12.7	11.3
168°	8.3	9.1	10.5	13.3	14.8	15.6	15.3	14.5	12.9	12.8	11.4
169°	8.7	9.3	10.6	13.4	14.7	15.3	15.1	14.3	12.9	12.9	11.5
170°	9.1	9.5	10.6	13.4	14.6	15.1	14.7	14.0	12.8	13.0	11.6
171°	9.4	9.7	10.7	13.4	14.5	14.9	14.4	13.8	12.6	13.0	11.8
172°	9.8	9.9	10.8	13.5	14.3	14.6	14.1	13.6	12.4	13.1	11.9
173°	10.1	10.2	10.9	13.5	14.2	14.4	13.9	13.3	12.3	13.1	12.0
174°	10.5	10.4	11.0	13.5	14.1	14.1	13.5	13.1	12.1	13.2	12.1
175°	10.8	10.7	11.0	13.5	13.9	13.9	13.2	12.8	11.9	13.3	12.3
176°	11.2	10.9	10.9	13.6	13.7	13.6	12.9	12.5	11.3	13.3	12.5
177°	11.5	11.1	10.8	13.6	13.6	13.3	12.6	12.2	11.1	13.4	12.7
178°	11.6	11.1	10.8	13.5	13.4	13.1	12.3	11.7	11.0	13.4	12.8
179°	11.7	11.1	10.8	13.5	13.2	12.8	11.9	11.3	10.9	13.5	13.0



REPORT NUMBER: P670580
CATALOG NUMBER: WXPMP120LSFSUNVDBZ-70W-5000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7



REPORT NUMBER: P670580
CATALOG NUMBER: WXPM120LSFSUNVDBZ-70W-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	1870.4	1870.4
1°	1995.3	2040.5
2°	2128.3	2211.1
3°	2290.8	2398.5
4°	2453.6	2565.3
5°	2640.2	2741.9
6°	2777.2	2898.5
7°	2892.5	3035.4
8°	2995.5	3160.6
9°	3068.0	3326.4
10°	3189.4	3449.9
11°	3291.9	3556.1
12°	3356.5	3704.9
13°	3509.3	3789.8
14°	3618.9	3850.6
15°	3764.6	3888.3
16°	3806.2	3931.6
17°	3834.9	3927.8
18°	3835.7	3983.1
19°	3755.8	4036.6
20°	3724.4	4017.2
21°	3732.4	4055.3
22°	3773.9	4001.5
23°	3828.3	4000.5
24°	3841.1	3928.0
25°	3830.6	3916.8
26°	3773.7	3866.2
27°	3693.9	3839.8
28°	3618.8	3835.9
29°	3541.4	3780.4
30°	3529.2	3783.2
31°	3538.2	3734.5
32°	3506.6	3734.0
33°	3453.6	3672.6
34°	3402.5	3693.8
35°	3335.4	3642.9
36°	3284.3	3617.4
37°	3221.3	3611.1
38°	3199.8	3611.9
39°	3168.6	3576.1
40°	3169.5	3577.3
41°	3148.7	3551.1
42°	3137.4	3518.6
43°	3070.9	3550.5
44°	3048.8	3519.9



REPORT NUMBER: P670580
CATALOG NUMBER: WXPM120LSFSUNVDBZ-70W-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	3018.7	3529.5
46°	2984.6	3560.5
47°	2974.4	3539.3
48°	2970.2	3597.1
49°	2952.0	3594.1
50°	2964.4	3663.1
51°	2970.3	3731.5
52°	2969.0	3833.2
53°	2992.0	3883.0
54°	3009.5	3936.9
55°	3041.0	3957.0
56°	3066.6	3981.7
57°	3093.1	4014.4
58°	3111.5	4023.9
59°	3110.4	4018.5
60°	3106.8	4015.2
61°	3106.2	4015.2
62°	3101.1	3999.5
63°	3095.2	3974.4
64°	3088.2	3966.1
65°	3071.4	3953.0
66°	3058.3	3903.1
67°	3047.2	3849.3
68°	3042.7	3827.6
69°	3023.3	3797.1
70°	3003.1	3733.6
71°	2968.1	3686.7
72°	2946.3	3654.3
73°	2910.7	3613.8
74°	2875.9	3550.9
75°	2841.3	3503.1
76°	2804.1	3454.6
77°	2757.0	3375.8
78°	2715.4	3335.0
79°	2673.5	3272.1
80°	2617.0	3215.5
81°	2567.4	3140.8
82°	2517.3	3087.2
83°	2454.8	3020.3
84°	2395.4	2936.0
85°	2334.1	2874.9
86°	2276.8	2812.2
87°	2215.7	2747.7
88°	2157.5	2690.1
89°	2098.2	2625.9



REPORT NUMBER: P670580
CATALOG NUMBER: WXP120LSFSUNVDBZ-70W-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	2032.8	2567.4
91°	1976.4	2502.9
92°	1918.9	2419.4
93°	1852.8	2348.2
94°	1790.6	2286.9
95°	1730.2	2218.6
96°	1666.6	2143.7
97°	1605.4	2072.1
98°	1541.1	2003.4
99°	1479.2	1945.6
100°	1413.8	1874.3
101°	1349.6	1793.3
102°	1279.5	1717.5
103°	1212.0	1650.0
104°	1147.2	1572.9
105°	1081.0	1493.0
106°	1010.3	1409.8
107°	941.1	1334.2
108°	875.7	1249.3
109°	809.1	1159.5
110°	750.8	1079.7
111°	694.3	1002.7
112°	639.3	928.0
113°	583.8	863.4
114°	530.1	800.9
115°	466.1	743.4
116°	401.8	678.3
117°	349.6	611.2
118°	307.8	532.7
119°	275.5	464.4
120°	250.2	406.9
121°	226.8	363.3
122°	205.5	332.0
123°	186.8	303.8
124°	168.6	276.6
125°	151.7	252.3
126°	134.3	228.5
127°	118.7	207.5
128°	103.0	187.9
129°	87.6	167.1
130°	74.6	148.4
131°	62.9	130.3
132°	52.9	110.0
133°	44.9	91.4
134°	37.8	77.7



REPORT NUMBER: P670580
CATALOG NUMBER: WXPM120LSFSUNVDBZ-70W-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
135°	31.8	65.1
136°	26.2	55.2
137°	21.8	46.7
138°	18.0	39.3
139°	13.7	32.6
140°	9.0	26.1
141°	7.3	20.6
142°	7.1	16.6
143°	7.2	12.7
144°	7.8	6.9
145°	8.1	5.0
146°	7.8	4.8
147°	7.3	4.7
148°	7.0	4.7
149°	6.7	4.8
150°	6.6	4.8
151°	6.2	4.6
152°	6.0	4.4
153°	6.6	4.3
154°	6.9	4.6
155°	7.2	4.8
156°	7.5	5.0
157°	7.9	5.4
158°	8.0	5.9
159°	8.1	6.4
160°	8.2	6.9
161°	8.4	7.3
162°	8.4	7.5
163°	8.3	7.9
164°	8.4	8.0
165°	8.5	8.2
166°	8.7	8.2
167°	9.0	8.2
168°	9.3	8.3
169°	9.7	8.7
170°	10.0	9.1
171°	10.3	9.4
172°	10.7	9.8
173°	11.0	10.1
174°	11.3	10.5
175°	11.6	10.8
176°	11.9	11.2
177°	12.1	11.5
178°	12.3	11.6
179°	12.5	11.7



REPORT NUMBER: P670580
CATALOG NUMBER: WXPM120LSFSUNVDBZ-70W-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
180°	11.7	11.7

(END OF REPORT)