

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: P670586

Luminaire Tested: WXPM120LSFSUNVDBZ-90W-5000K

Issue Date: 4/4/2023

Test Information

Test Method: LM-79-2019
Report Number: P670586
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-90W-5000K
Description: WALL PACK
Light Source:
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12000 lumens
Efficiency: N/A
Efficacy: 133.0 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

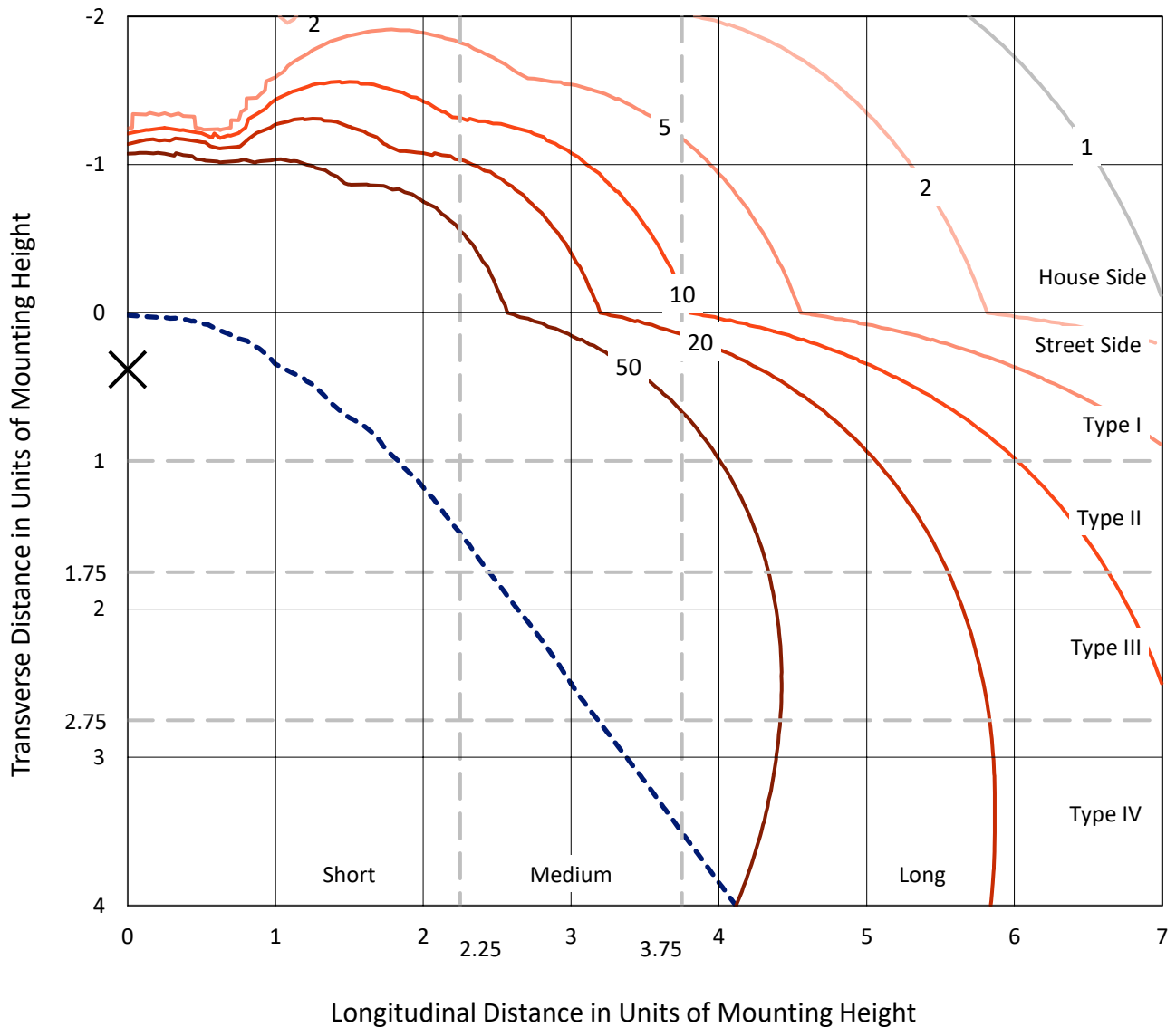
Input Watts (W): 90.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

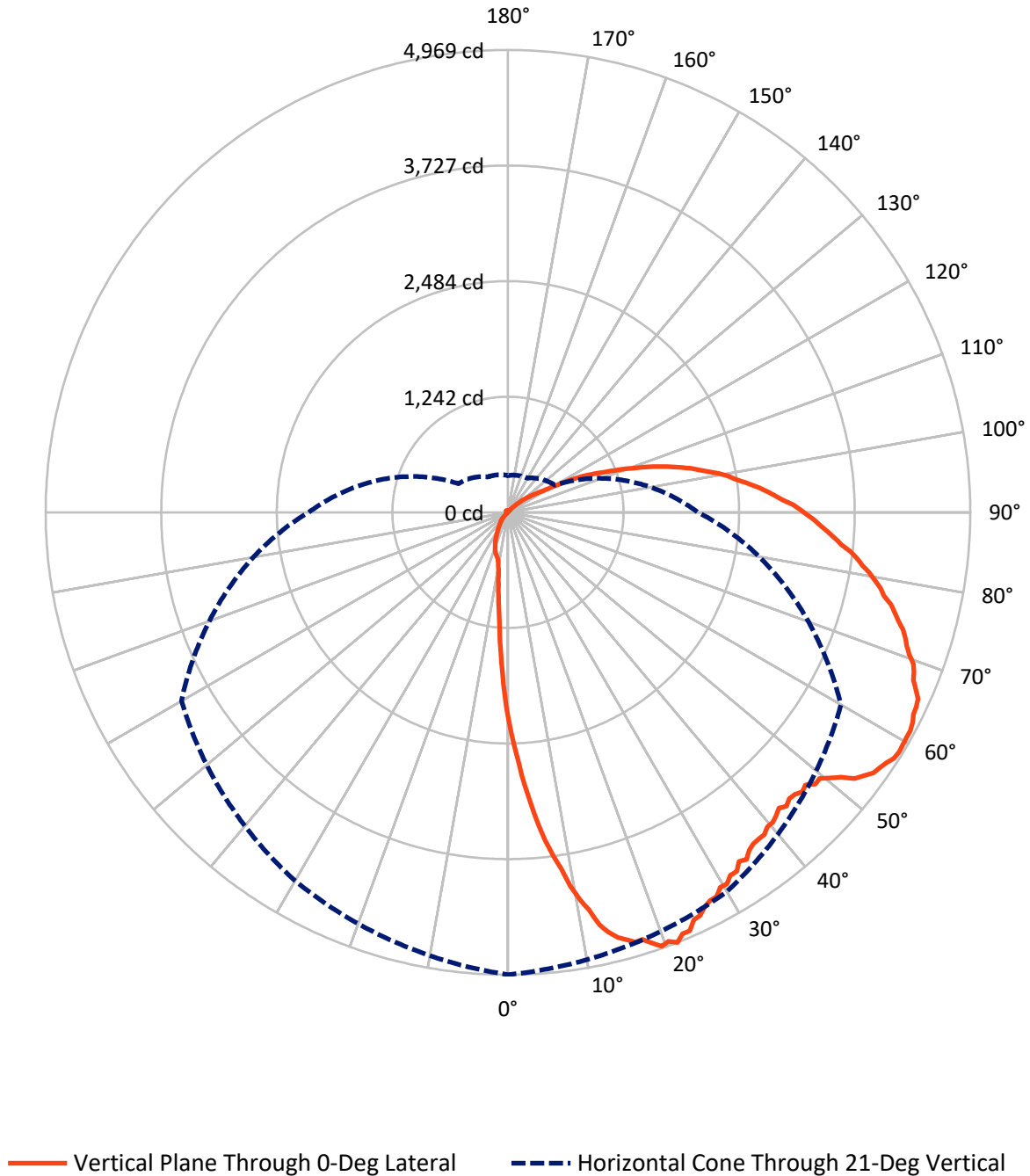
× Max cd
 - - - 1/2 Max cd



Based on 0.5 foot mounting height. Maximum calculated value = 17237.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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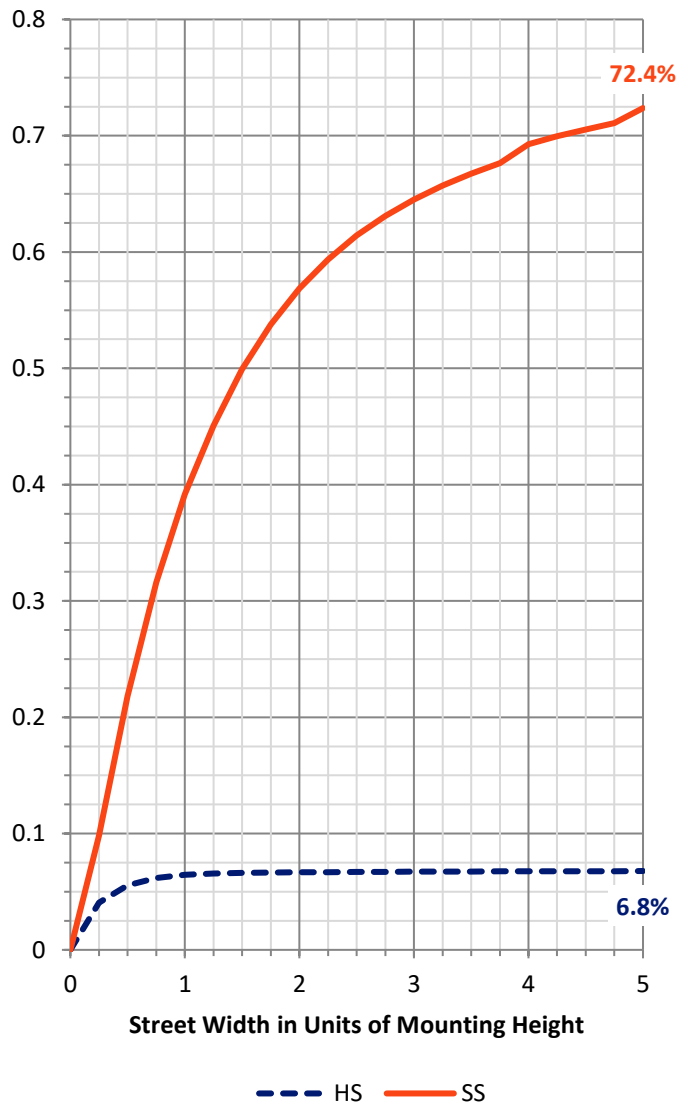
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	826.7	79.3	906.0
	% Fixture	6.9	0.7	7.5
Street Side	Lumens	9487.5	1606.5	11094.0
	% Fixture	79.1	13.4	92.5
Total	Lumens	10314.1	1685.9	12000.0
	% Fixture	86.0	14.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.7	1.8
10°-20°	676.5	5.6
20°-30°	1094.1	9.1
30°-40°	1325.2	11.0
40°-50°	1423.1	11.9
50°-60°	1524.2	12.7
60°-70°	1532.5	12.8
70°-80°	1389.7	11.6
80°-90°	1132.3	9.4
90°-100°	818.7	6.8
100°-110°	505.4	4.2
110°-120°	228.6	1.9
120°-130°	81.4	0.7
130°-140°	27.5	0.2
140°-150°	11.1	0.1
150°-160°	7.3	0.1
160°-170°	4.4	0.0
170°-180°	1.4	0.0
0°-90°	10314.1	86.0
0°-180°	12000.0	100.0

Coefficient of Utilization



REPORT NUMBER: P670586

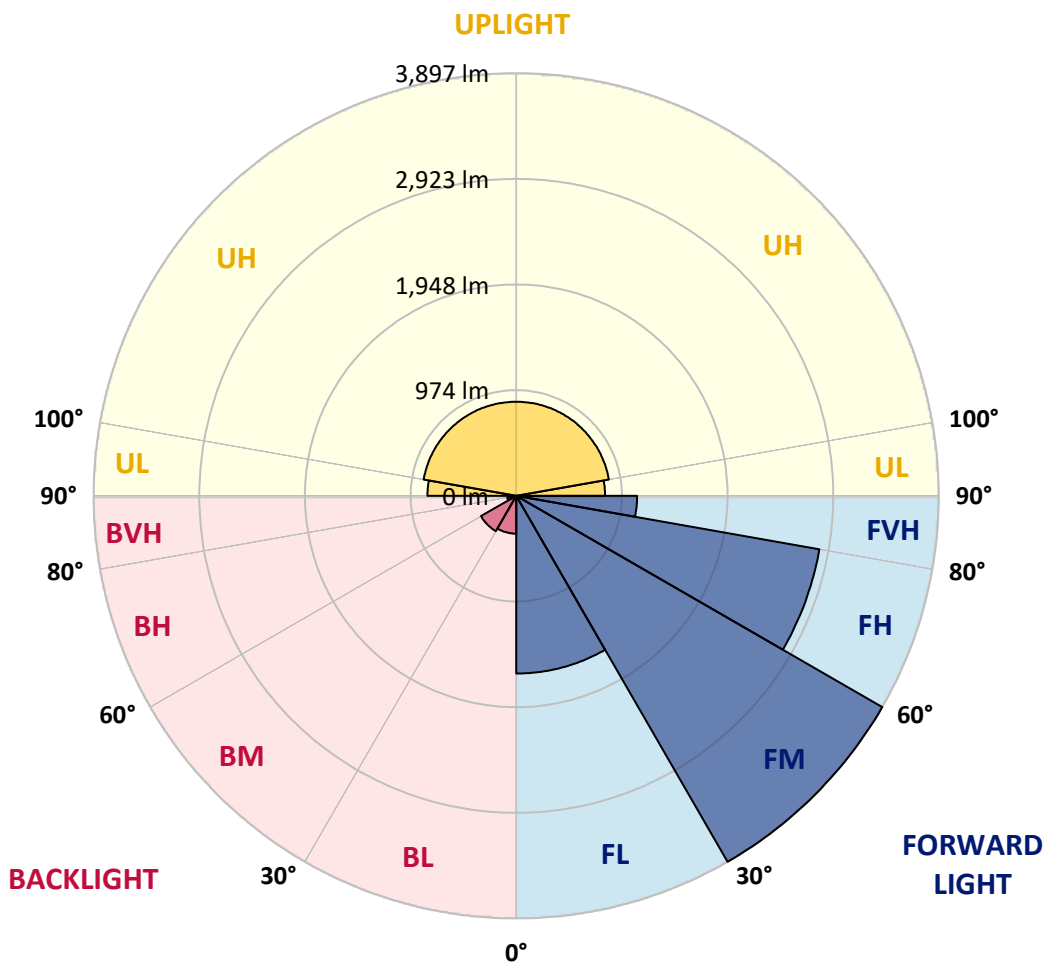
CATALOG NUMBER: WXP120LSFSUNVDBZ-90W-5000K

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1638.6	13.7			
FM (30°-60°)	3896.8	32.5			
FH (60°-80°)	2838.4	23.7			G2/5000
FVH (80°-90°)	1113.7	9.3			G5
BL (0°-30°)	348.7	2.9	B1/500		
BM (30°-60°)	375.6	3.1	B1/1000		
BH (60°-80°)	83.8	0.7	B0/110		G0/110
BVH (80°-90°)	18.6	0.2			G1/100
UL (90°-100°)	818.7	6.8		U4/1000	
UH (100°-180°)	867.2	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°	2291.7	2291.7	2291.7	2291.7	2291.7	2291.7	2291.7	2291.7	2291.7	2291.7	2291.7
1°	2500.1	2490.4	2415.3	2297.4	2192.3	2110.5	2077.1	2087.4	2157.1	2260.4	2357.0
2°	2709.2	2678.6	2525.4	2294.2	2081.7	1930.3	1843.7	1874.5	2056.1	2283.8	2463.9
3°	2938.8	2893.7	2633.5	2279.7	1975.7	1721.1	1604.2	1668.7	1959.1	2312.3	2596.0
4°	3143.1	3077.4	2718.9	2250.4	1851.0	1521.7	1391.9	1473.4	1841.5	2299.3	2726.0
5°	3359.5	3254.6	2783.1	2224.6	1715.6	1329.8	1180.0	1287.2	1698.2	2279.7	2784.3
6°	3551.3	3425.6	2891.2	2224.1	1585.7	1163.7	1031.1	1148.2	1569.4	2295.9	2862.3
7°	3719.1	3572.0	2976.6	2189.7	1475.7	1032.5	901.2	1027.6	1466.4	2316.2	2988.6
8°	3872.4	3701.6	3058.9	2142.7	1357.6	911.5	785.8	911.1	1366.0	2298.7	3137.3
9°	4075.6	3847.6	3117.4	2128.7	1242.8	806.1	690.3	807.6	1260.5	2278.5	3230.4
10°	4226.9	4024.0	3145.4	2147.6	1140.3	717.9	621.1	722.2	1166.2	2252.5	3293.1
11°	4357.1	4171.7	3317.5	2132.8	1064.2	648.5	572.0	656.4	1090.8	2272.5	3346.7
12°	4539.3	4323.5	3425.0	2121.2	992.7	598.3	534.8	608.7	1018.3	2292.2	3394.0
13°	4643.4	4427.5	3496.1	2125.6	925.8	559.2	509.2	573.0	960.9	2280.1	3492.7
14°	4717.9	4552.9	3554.9	2107.9	864.3	526.7	494.1	542.7	902.3	2250.1	3614.0
15°	4764.1	4588.8	3638.2	2115.9	810.8	500.5	483.4	518.3	845.6	2229.9	3738.3
16°	4817.1	4587.3	3749.4	2122.4	762.0	480.0	472.4	500.3	791.4	2227.0	3754.2
17°	4812.5	4576.9	3869.3	2114.3	717.9	466.0	460.9	487.3	745.0	2210.8	3763.1
18°	4880.3	4649.7	3976.0	2084.8	680.8	455.0	448.5	475.2	705.9	2174.7	3809.8
19°	4945.8	4695.6	4016.8	2082.4	646.9	445.6	430.5	463.6	670.9	2171.8	3884.3
20°	4922.1	4710.4	4065.2	2079.3	613.3	435.4	415.7	450.7	641.4	2169.9	3974.8
21°	4968.8	4705.4	4131.9	2042.6	583.7	424.6	395.7	438.7	616.6	2142.2	4051.4
22°	4902.7	4764.1	4214.6	2012.0	556.7	407.5	378.0	420.0	595.5	2134.4	4049.7
23°	4901.5	4785.9	4264.3	1946.2	531.5	394.5	358.5	406.3	574.2	2121.2	4044.6
24°	4812.8	4854.3	4279.7	1925.2	505.8	377.0	339.4	386.5	552.1	2091.5	4049.0
25°	4799.0	4774.6	4288.2	1866.2	481.0	360.6	317.9	369.9	532.0	2079.4	4089.6
26°	4737.0	4749.4	4285.6	1805.6	457.9	344.8	298.0	353.3	513.1	2068.2	4147.0
27°	4704.7	4639.8	4304.0	1769.6	439.9	326.0	277.2	332.1	493.1	2048.5	4165.6
28°	4699.9	4591.2	4350.7	1757.7	424.6	309.4	258.2	312.2	476.6	2040.3	4171.9
29°	4631.9	4549.8	4284.2	1735.6	411.2	290.5	239.2	295.0	462.6	2026.3	4097.2
30°	4635.4	4475.3	4210.9	1692.7	398.1	272.3	222.7	279.1	450.8	2003.2	4025.7
31°	4575.6	4501.2	4173.1	1651.9	385.8	254.9	206.1	263.3	438.9	1962.9	4004.8
32°	4575.0	4504.2	4104.0	1604.5	374.7	239.1	192.4	248.1	428.1	1931.1	3978.4
33°	4499.8	4460.5	4003.9	1557.7	364.4	224.1	178.0	234.5	417.3	1875.9	3984.3
34°	4525.7	4424.6	4000.9	1515.2	353.3	210.3	164.1	220.8	406.3	1826.0	3928.3
35°	4463.5	4398.0	3995.8	1470.5	342.8	196.8	153.3	208.1	392.7	1789.0	3871.3
36°	4432.1	4361.4	3935.6	1420.4	334.0	184.1	142.7	195.6	383.1	1766.7	3843.3
37°	4424.5	4306.4	3901.4	1391.9	325.2	171.3	131.1	183.7	373.3	1726.7	3784.8
38°	4425.5	4258.6	3928.8	1376.0	313.8	158.8	124.6	171.7	359.8	1689.6	3652.7
39°	4381.6	4218.1	3893.2	1382.4	304.8	146.1	121.2	160.3	348.2	1612.8	3585.6
40°	4383.1	4151.4	3856.4	1348.8	295.0	134.6	114.3	149.0	337.4	1567.8	3489.6
41°	4350.9	4120.9	3882.7	1305.2	284.1	123.4	106.8	138.3	324.4	1519.5	3405.7
42°	4311.1	4077.0	3787.5	1233.6	273.5	112.5	98.9	127.7	313.8	1496.1	3342.2
43°	4350.2	4027.5	3628.5	1171.7	261.9	102.0	89.7	117.2	302.1	1476.2	3289.9
44°	4312.7	4030.5	3535.4	1135.6	252.3	92.2	77.4	107.0	290.3	1452.4	3205.6



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	4324.5	4070.7	3423.1	1154.9	241.5	82.7	64.2	96.7	278.3	1431.7	3145.4
46°	4362.4	4080.4	3296.4	1134.1	231.9	73.2	53.3	86.0	266.2	1390.3	3139.7
47°	4336.5	3997.0	3239.6	1098.3	220.7	64.0	38.0	75.1	254.9	1334.6	3110.0
48°	4407.3	3944.3	3233.3	1045.3	210.7	55.5	26.5	64.8	243.3	1284.6	3048.1
49°	4403.6	3924.3	3242.9	1000.9	199.5	46.6	5.3	54.1	232.2	1248.3	3003.3
50°	4488.1	3902.5	3218.0	980.9	188.9	38.2	3.9	44.5	221.7	1229.3	2958.6
51°	4572.0	3935.1	3226.4	949.5	177.8	28.5	4.1	34.6	211.6	1193.8	2862.4
52°	4696.6	3929.9	3244.3	887.5	168.0	18.7	4.4	24.3	201.9	1134.0	2820.5
53°	4757.6	3944.3	3189.0	840.7	157.6	4.5	4.7	10.0	191.5	1071.9	2751.1
54°	4823.6	3989.7	3104.0	820.9	148.6	4.1	4.9	6.0	181.8	1039.6	2676.2
55°	4848.2	4018.2	3039.6	780.9	138.4	4.3	5.2	6.0	171.5	1027.2	2667.2
56°	4878.5	4042.9	2948.1	726.0	129.4	4.5	5.5	6.3	161.2	984.1	2671.2
57°	4918.7	4038.0	2890.4	681.6	120.7	4.8	5.8	6.5	150.8	932.4	2663.0
58°	4930.2	4055.4	2835.2	649.0	112.5	5.0	6.1	6.8	141.1	895.5	2646.6
59°	4923.6	4048.5	2823.1	614.7	104.5	5.3	6.4	7.0	131.8	848.5	2604.8
60°	4919.6	4034.3	2828.2	575.0	96.7	5.6	6.7	7.3	122.7	790.8	2556.7
61°	4919.5	3997.2	2796.5	533.7	89.4	5.9	7.1	7.6	114.2	742.2	2487.8
62°	4900.4	4002.0	2746.7	497.2	82.1	6.1	7.4	8.0	105.9	696.9	2443.3
63°	4869.5	3983.3	2653.2	455.3	75.6	6.4	7.7	8.3	98.2	654.7	2411.5
64°	4859.4	3964.7	2580.4	415.1	69.5	6.7	8.1	8.6	90.9	611.6	2388.6
65°	4843.4	3950.5	2542.9	375.7	64.7	7.0	8.4	9.0	84.2	568.2	2369.2
66°	4782.2	3940.0	2497.8	341.9	60.7	7.3	8.8	9.4	78.0	526.7	2314.5
67°	4716.3	3922.2	2442.0	310.0	57.5	7.6	9.1	9.7	72.8	487.8	2276.8
68°	4689.7	3890.7	2386.4	277.8	54.6	7.9	9.5	10.0	68.8	450.8	2233.9
69°	4652.4	3847.9	2326.6	253.9	52.3	8.3	9.9	10.3	65.4	418.0	2198.7
70°	4574.6	3822.2	2283.1	232.4	49.6	8.6	10.3	10.6	62.3	387.2	2168.5
71°	4517.1	3779.8	2213.2	213.3	47.2	8.9	10.6	10.9	59.6	356.7	2106.9
72°	4477.4	3746.1	2159.3	196.7	45.0	9.2	11.0	11.2	56.8	327.5	2057.6
73°	4427.8	3701.5	2100.7	181.9	42.7	9.6	11.4	11.5	54.4	300.6	2016.1
74°	4350.7	3662.9	2050.6	168.4	40.6	9.9	11.8	11.7	52.0	275.5	1963.9
75°	4292.1	3603.9	1990.0	155.2	38.4	10.2	12.2	11.9	50.2	251.8	1899.6
76°	4232.7	3549.0	1913.6	143.6	36.8	10.6	12.6	12.0	48.5	230.1	1852.3
77°	4136.2	3501.0	1865.9	132.6	35.8	10.9	13.0	12.3	47.1	210.6	1796.0
78°	4086.2	3451.3	1815.0	122.9	35.0	11.3	13.4	12.5	45.7	191.8	1733.2
79°	4009.1	3399.1	1756.9	113.4	34.4	11.6	13.8	12.7	44.1	175.2	1683.2
80°	3939.8	3342.3	1706.7	104.6	33.9	12.0	14.2	13.0	43.4	159.3	1630.1
81°	3848.2	3292.2	1643.1	96.4	33.5	12.3	14.6	13.3	42.4	144.9	1577.1
82°	3782.5	3231.7	1580.5	88.9	33.1	12.7	15.0	13.6	41.3	131.2	1515.5
83°	3700.6	3161.9	1524.4	82.2	32.7	13.0	15.4	13.9	40.8	119.2	1460.5
84°	3597.3	3093.0	1454.5	75.8	32.4	13.3	15.8	14.2	40.3	108.8	1409.9
85°	3522.4	3017.1	1399.4	69.7	32.2	13.7	16.2	14.6	40.0	99.3	1357.7
86°	3445.7	2949.6	1338.5	64.0	31.8	14.0	16.6	15.0	39.1	90.0	1303.8
87°	3366.6	2882.5	1281.6	59.1	31.4	14.4	17.0	15.3	38.4	81.7	1244.4
88°	3296.0	2812.4	1225.6	54.7	31.1	14.7	17.4	15.6	39.7	74.4	1189.1
89°	3217.4	2732.2	1164.4	51.3	31.0	15.0	17.7	15.9	39.7	67.9	1135.5



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	3145.6	2656.1	1109.5	48.7	30.5	15.3	18.1	16.2	39.5	62.4	1076.6
91°	3066.6	2584.6	1053.8	46.5	30.2	15.7	18.5	16.5	39.2	58.3	1023.3
92°	2964.3	2510.5	992.7	44.9	30.0	16.0	18.8	16.8	37.7	55.7	968.5
93°	2877.1	2437.8	940.8	43.8	29.7	16.2	19.1	16.9	37.2	53.8	919.9
94°	2801.9	2359.7	885.0	43.4	29.5	16.5	19.4	17.0	37.0	52.4	869.6
95°	2718.4	2284.3	836.3	43.4	29.2	16.8	19.7	17.1	36.5	51.5	824.3
96°	2626.5	2201.5	787.5	43.6	28.9	17.1	20.0	17.2	36.3	51.1	775.8
97°	2538.8	2121.1	740.1	44.2	28.6	17.3	20.3	17.4	35.8	51.0	725.9
98°	2454.6	2038.4	701.7	45.0	28.2	17.5	20.5	17.5	35.4	51.0	683.1
99°	2383.8	1955.2	659.9	45.6	27.9	17.8	20.7	17.6	35.0	51.2	643.6
100°	2296.5	1876.9	620.8	46.1	27.6	18.0	20.9	17.7	34.6	51.5	607.0
101°	2197.3	1791.3	586.3	46.7	27.2	18.2	21.1	17.9	34.3	52.1	571.1
102°	2104.4	1698.1	548.4	47.3	26.7	18.4	21.3	18.1	33.9	52.9	537.3
103°	2021.7	1617.0	515.3	47.9	26.3	18.6	21.5	18.3	33.4	53.5	504.4
104°	1927.2	1534.2	484.4	48.3	25.9	18.8	21.6	18.5	33.0	54.2	474.2
105°	1829.3	1449.6	450.8	48.7	25.6	19.0	21.7	18.7	32.5	54.8	443.2
106°	1727.4	1375.2	423.1	48.9	25.4	19.2	21.8	18.9	32.4	55.4	409.2
107°	1634.7	1297.7	394.8	49.1	25.1	19.4	21.9	19.0	32.2	55.9	372.2
108°	1530.7	1227.5	366.6	49.1	24.9	19.5	21.9	19.2	31.7	56.3	337.1
109°	1420.6	1149.2	339.6	49.1	24.6	19.7	22.0	19.4	31.3	56.6	301.2
110°	1322.9	1073.4	311.6	49.0	24.4	19.8	22.0	19.5	30.8	56.8	267.3
111°	1228.6	999.0	285.5	48.9	24.1	20.0	22.1	19.7	30.4	56.9	239.6
112°	1137.0	919.2	263.4	48.7	23.9	20.1	22.1	19.9	29.9	56.8	215.7
113°	1057.9	830.0	242.2	48.5	23.7	20.3	22.2	20.1	29.5	56.5	194.9
114°	981.2	741.0	223.0	48.2	23.5	20.5	22.3	20.2	29.0	56.2	175.6
115°	910.8	640.9	204.7	48.0	23.3	20.6	22.3	20.4	28.6	55.8	159.8
116°	831.0	551.7	187.8	47.7	23.2	20.8	22.4	20.6	28.2	55.5	143.8
117°	748.9	477.4	172.2	47.3	23.0	20.9	22.4	20.8	27.9	55.2	130.5
118°	652.7	411.6	158.4	46.9	22.9	21.1	22.4	20.9	27.5	54.7	119.6
119°	569.0	366.4	146.0	46.5	22.8	21.2	22.5	21.1	27.2	54.1	109.8
120°	498.5	333.9	135.1	45.8	22.7	21.4	22.5	21.2	27.0	53.2	100.8
121°	445.1	303.1	125.6	44.9	22.6	21.5	22.6	21.4	26.6	51.9	92.4
122°	406.8	276.2	118.9	43.9	22.6	21.7	22.6	21.5	26.4	50.4	85.4
123°	372.3	254.3	111.6	42.9	22.5	21.8	22.7	21.7	26.0	48.7	77.3
124°	338.9	230.0	102.8	41.7	22.5	22.0	22.8	21.9	25.8	46.9	68.8
125°	309.1	210.9	93.2	40.4	22.4	22.1	22.9	22.0	25.6	45.0	60.4
126°	279.9	187.8	85.8	39.1	22.3	22.3	23.0	22.1	25.4	43.3	53.7
127°	254.2	167.4	79.1	37.7	22.2	22.4	23.0	22.3	25.2	41.5	48.9
128°	230.2	148.0	73.0	36.2	22.2	22.5	23.1	22.4	24.9	39.9	44.4
129°	204.8	129.3	66.9	34.7	22.1	22.7	23.2	22.6	24.5	38.2	40.2
130°	181.8	113.9	61.3	33.1	22.0	22.8	23.3	22.7	24.2	36.4	35.9
131°	159.7	99.6	55.0	31.7	22.0	22.9	23.4	22.8	23.9	34.6	32.0
132°	134.8	86.6	48.8	30.3	21.8	23.1	23.5	22.9	23.5	32.8	28.5
133°	112.0	76.4	43.5	28.9	21.7	23.1	23.6	23.1	23.1	30.8	25.6
134°	95.2	66.9	38.6	27.6	21.6	23.3	23.7	23.2	22.6	28.7	23.1



REPORT NUMBER: P670586
 CATALOG NUMBER: WXP120LSFSUNVDBZ-90W-5000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	79.8	57.8	34.8	26.5	21.5	23.3	23.8	23.3	22.0	26.7	21.4
136°	67.6	49.4	31.5	25.4	21.3	23.4	23.9	23.4	21.4	24.5	18.4
137°	57.3	42.6	28.1	24.4	21.2	23.5	24.0	23.4	20.7	22.4	15.3
138°	48.1	36.7	25.2	23.6	21.0	23.6	24.1	23.5	19.8	20.4	13.3
139°	40.0	30.5	23.7	22.8	20.9	23.6	24.1	23.6	19.2	18.6	12.5
140°	32.0	24.1	22.5	22.0	20.7	23.6	24.2	23.6	18.9	17.0	12.1
141°	25.2	19.9	21.5	21.2	20.5	23.6	24.3	23.5	18.7	15.6	11.9
142°	20.3	18.6	20.8	20.4	20.3	23.6	24.3	23.4	18.6	14.4	11.9
143°	15.6	16.9	20.4	19.6	20.0	23.6	24.3	23.4	18.5	13.5	12.3
144°	8.4	16.3	20.0	18.8	19.7	23.5	24.3	23.4	18.4	13.0	12.9
145°	6.2	16.6	19.3	17.9	19.4	23.5	24.3	23.2	18.4	12.8	13.7
146°	5.9	16.1	19.4	17.1	19.2	23.4	24.3	23.1	18.3	12.8	14.4
147°	5.8	14.6	19.4	16.2	19.2	23.3	24.2	23.0	18.1	12.9	15.0
148°	5.8	13.6	19.8	15.5	19.2	23.2	24.1	22.9	17.8	13.1	15.7
149°	5.9	13.0	20.2	14.9	19.2	23.1	24.0	22.6	17.7	13.3	16.1
150°	5.9	12.5	20.7	14.6	19.2	22.9	23.9	22.4	17.5	13.4	16.7
151°	5.6	12.0	21.5	14.5	19.2	22.8	23.7	22.2	17.5	13.6	15.8
152°	5.4	10.7	20.8	14.6	19.2	22.6	23.5	22.0	17.4	13.7	14.7
153°	5.3	9.9	19.5	14.7	19.2	22.4	23.3	21.9	17.3	13.9	13.9
154°	5.7	10.5	18.3	14.9	19.1	22.2	23.1	21.7	17.2	14.0	13.2
155°	5.8	11.1	17.1	15.0	19.1	22.0	22.8	21.5	17.1	14.2	12.4
156°	6.1	11.7	15.5	15.1	19.1	21.8	22.6	21.2	17.1	14.3	12.5
157°	6.6	12.3	15.0	15.3	19.1	21.6	22.3	20.8	17.0	14.4	12.6
158°	7.2	12.8	14.8	15.4	19.0	21.4	22.0	20.5	17.0	14.6	12.6
159°	7.9	12.9	14.5	15.5	19.0	21.2	21.7	20.4	16.9	14.7	12.8
160°	8.4	13.1	14.4	15.6	18.9	20.9	21.4	20.1	16.7	14.8	12.9
161°	8.9	13.1	14.2	15.7	18.9	20.7	21.1	19.8	16.6	15.0	13.0
162°	9.2	13.3	14.0	15.8	18.8	20.5	20.7	19.6	16.5	15.1	13.2
163°	9.7	13.3	13.9	15.9	18.7	20.3	20.4	19.4	16.4	15.2	13.3
164°	9.8	12.5	13.9	16.0	18.6	20.0	20.1	19.0	16.4	15.3	13.5
165°	10.0	11.8	13.8	16.1	18.5	19.8	19.8	18.6	16.3	15.4	13.6
166°	10.0	10.8	13.8	16.2	18.4	19.5	19.4	18.3	16.2	15.5	13.7
167°	10.1	10.9	13.2	16.2	18.3	19.3	19.1	18.1	16.0	15.6	13.8
168°	10.2	11.1	12.9	16.3	18.2	19.1	18.8	17.8	15.8	15.7	14.0
169°	10.7	11.4	13.0	16.4	18.0	18.8	18.5	17.5	15.8	15.8	14.1
170°	11.1	11.6	13.0	16.4	17.9	18.5	18.1	17.2	15.7	15.9	14.3
171°	11.5	11.9	13.1	16.5	17.7	18.2	17.7	16.9	15.5	16.0	14.4
172°	12.0	12.2	13.3	16.5	17.6	17.9	17.3	16.6	15.2	16.1	14.6
173°	12.4	12.5	13.3	16.6	17.4	17.6	17.0	16.3	15.1	16.1	14.7
174°	12.9	12.8	13.5	16.6	17.2	17.3	16.6	16.0	14.9	16.2	14.9
175°	13.3	13.1	13.5	16.6	17.0	17.0	16.2	15.7	14.6	16.3	15.1
176°	13.7	13.4	13.3	16.6	16.8	16.7	15.8	15.3	13.8	16.3	15.3
177°	14.1	13.6	13.3	16.6	16.6	16.4	15.4	14.9	13.6	16.4	15.5
178°	14.2	13.6	13.2	16.6	16.4	16.0	15.0	14.4	13.4	16.5	15.7
179°	14.3	13.6	13.2	16.6	16.2	15.7	14.6	13.8	13.3	16.5	15.9



REPORT NUMBER: P670586
CATALOG NUMBER: WXPM120LSFSUNVDBZ-90W-5000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4



REPORT NUMBER: P670586
CATALOG NUMBER: WXPM120LSFSUNVDBZ-90W-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	2291.7	2291.7
1°	2444.7	2500.1
2°	2607.7	2709.2
3°	2806.8	2938.8
4°	3006.3	3143.1
5°	3234.9	3359.5
6°	3402.8	3551.3
7°	3544.0	3719.1
8°	3670.2	3872.4
9°	3759.1	4075.6
10°	3907.8	4226.9
11°	4033.4	4357.1
12°	4112.5	4539.3
13°	4299.8	4643.4
14°	4434.0	4717.9
15°	4612.5	4764.1
16°	4663.5	4817.1
17°	4698.7	4812.5
18°	4699.6	4880.3
19°	4601.7	4945.8
20°	4563.3	4922.1
21°	4573.0	4968.8
22°	4623.9	4902.7
23°	4690.5	4901.5
24°	4706.3	4812.8
25°	4693.4	4799.0
26°	4623.6	4737.0
27°	4525.9	4704.7
28°	4433.9	4699.9
29°	4339.1	4631.9
30°	4324.1	4635.4
31°	4335.1	4575.6
32°	4296.4	4575.0
33°	4231.5	4499.8
34°	4168.9	4525.7
35°	4086.7	4463.5
36°	4024.0	4432.1
37°	3946.9	4424.5
38°	3920.5	4425.5
39°	3882.3	4381.6
40°	3883.4	4383.1
41°	3857.9	4350.9
42°	3844.1	4311.1
43°	3762.6	4350.2
44°	3735.5	4312.7



REPORT NUMBER: P670586
CATALOG NUMBER: WXPM120LSFSUNVDBZ-90W-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	3698.6	4324.5
46°	3656.9	4362.4
47°	3644.3	4336.5
48°	3639.3	4407.3
49°	3616.9	4403.6
50°	3632.1	4488.1
51°	3639.3	4572.0
52°	3637.8	4696.6
53°	3665.9	4757.6
54°	3687.4	4823.6
55°	3725.9	4848.2
56°	3757.3	4878.5
57°	3789.8	4918.7
58°	3812.3	4930.2
59°	3810.9	4923.6
60°	3806.5	4919.6
61°	3805.9	4919.5
62°	3799.6	4900.4
63°	3792.4	4869.5
64°	3783.8	4859.4
65°	3763.2	4843.4
66°	3747.1	4782.2
67°	3733.6	4716.3
68°	3728.1	4689.7
69°	3704.3	4652.4
70°	3679.5	4574.6
71°	3636.6	4517.1
72°	3610.0	4477.4
73°	3566.3	4427.8
74°	3523.6	4350.7
75°	3481.3	4292.1
76°	3435.7	4232.7
77°	3378.0	4136.2
78°	3327.0	4086.2
79°	3275.7	4009.1
80°	3206.5	3939.8
81°	3145.7	3848.2
82°	3084.3	3782.5
83°	3007.8	3700.6
84°	2934.9	3597.3
85°	2859.8	3522.4
86°	2789.6	3445.7
87°	2714.8	3366.6
88°	2643.5	3296.0
89°	2570.9	3217.4



REPORT NUMBER: P670586
CATALOG NUMBER: WXP120LSFSUNVDBZ-90W-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	2490.7	3145.6
91°	2421.5	3066.6
92°	2351.1	2964.3
93°	2270.2	2877.1
94°	2193.9	2801.9
95°	2119.9	2718.4
96°	2042.0	2626.5
97°	1967.0	2538.8
98°	1888.2	2454.6
99°	1812.4	2383.8
100°	1732.2	2296.5
101°	1653.6	2197.3
102°	1567.8	2104.4
103°	1485.0	2021.7
104°	1405.7	1927.2
105°	1324.4	1829.3
106°	1237.8	1727.4
107°	1153.1	1634.7
108°	1072.9	1530.7
109°	991.3	1420.6
110°	919.9	1322.9
111°	850.7	1228.6
112°	783.3	1137.0
113°	715.2	1057.9
114°	649.5	981.2
115°	571.1	910.8
116°	492.2	831.0
117°	428.3	748.9
118°	377.1	652.7
119°	337.6	569.0
120°	306.6	498.5
121°	277.9	445.1
122°	251.8	406.8
123°	228.8	372.3
124°	206.5	338.9
125°	185.8	309.1
126°	164.6	279.9
127°	145.5	254.2
128°	126.2	230.2
129°	107.3	204.8
130°	91.4	181.8
131°	77.1	159.7
132°	64.8	134.8
133°	55.1	112.0
134°	46.3	95.2



REPORT NUMBER: P670586
CATALOG NUMBER: WXPM120LSFSUNVDBZ-90W-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
135°	39.0	79.8
136°	32.2	67.6
137°	26.7	57.3
138°	22.1	48.1
139°	16.8	40.0
140°	11.0	32.0
141°	8.9	25.2
142°	8.7	20.3
143°	8.9	15.6
144°	9.5	8.4
145°	9.9	6.2
146°	9.5	5.9
147°	8.9	5.8
148°	8.5	5.8
149°	8.2	5.9
150°	8.1	5.9
151°	7.6	5.6
152°	7.4	5.4
153°	8.1	5.3
154°	8.5	5.7
155°	8.8	5.8
156°	9.2	6.1
157°	9.6	6.6
158°	9.8	7.2
159°	9.9	7.9
160°	10.1	8.4
161°	10.3	8.9
162°	10.3	9.2
163°	10.2	9.7
164°	10.2	9.8
165°	10.4	10.0
166°	10.7	10.0
167°	11.1	10.1
168°	11.5	10.2
169°	11.8	10.7
170°	12.2	11.1
171°	12.6	11.5
172°	13.1	12.0
173°	13.4	12.4
174°	13.8	12.9
175°	14.2	13.3
176°	14.6	13.7
177°	14.9	14.1
178°	15.1	14.2
179°	15.3	14.3



REPORT NUMBER: P670586
CATALOG NUMBER: WXPM120LSFSUNVDBZ-90W-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
180°	14.4	14.4

(END OF REPORT)