

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P511375

Luminaire Tested: **WPMLED25S-70W_SWITCH-4000K**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511375
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (EVERFINE)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: WPMLED25S-70W_SWITCH-4000K
Description: WALLPACK SELECTABLE CCT
Light Source: (240) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10360 lumens
Efficiency: N/A
Efficacy: 148.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.9' x L: 0.13' x H: 0.45')
IES Classification: Type IV - Short
BUG Rating: B1 - U5 - G5

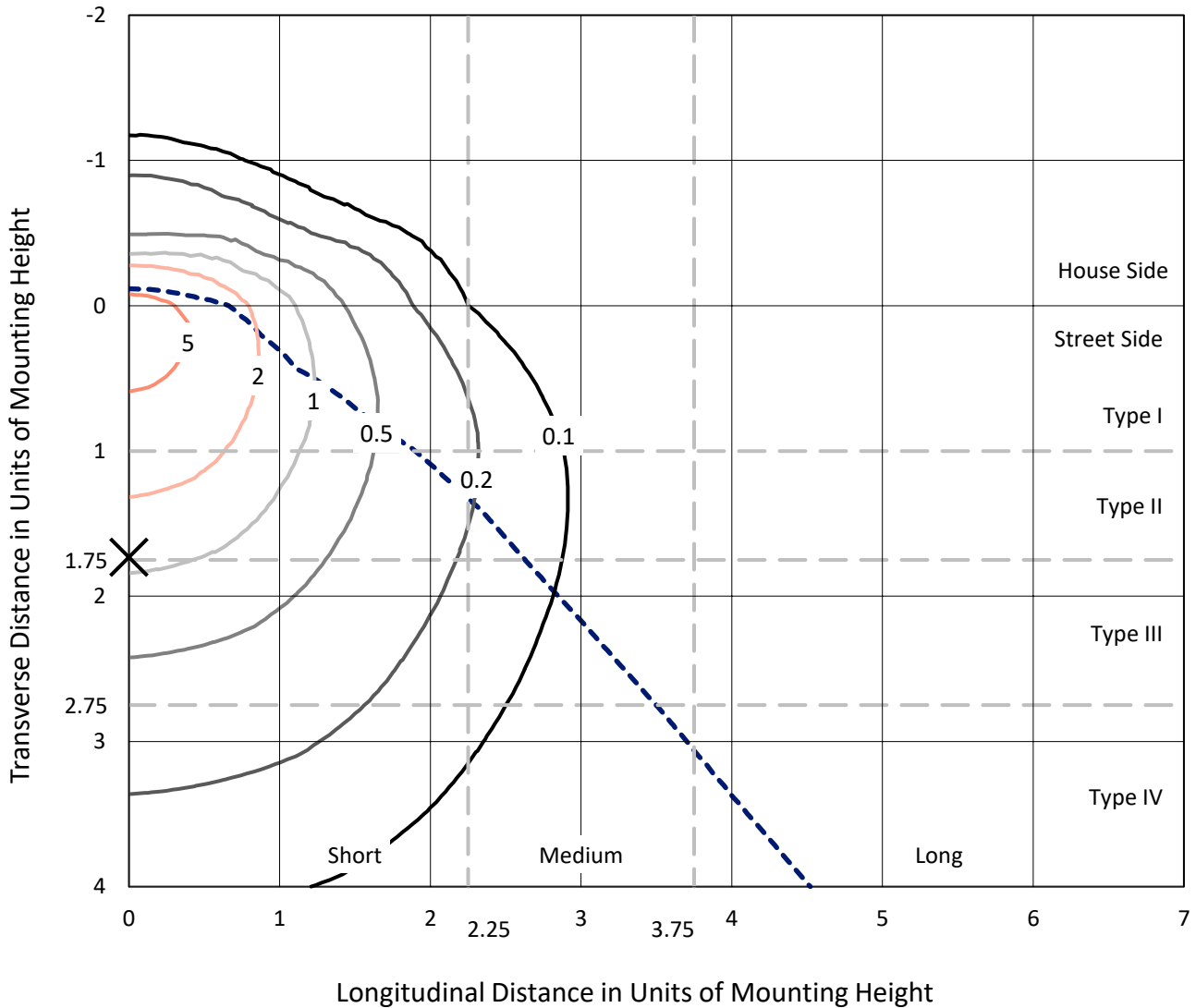
Input Watts (W): 69.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

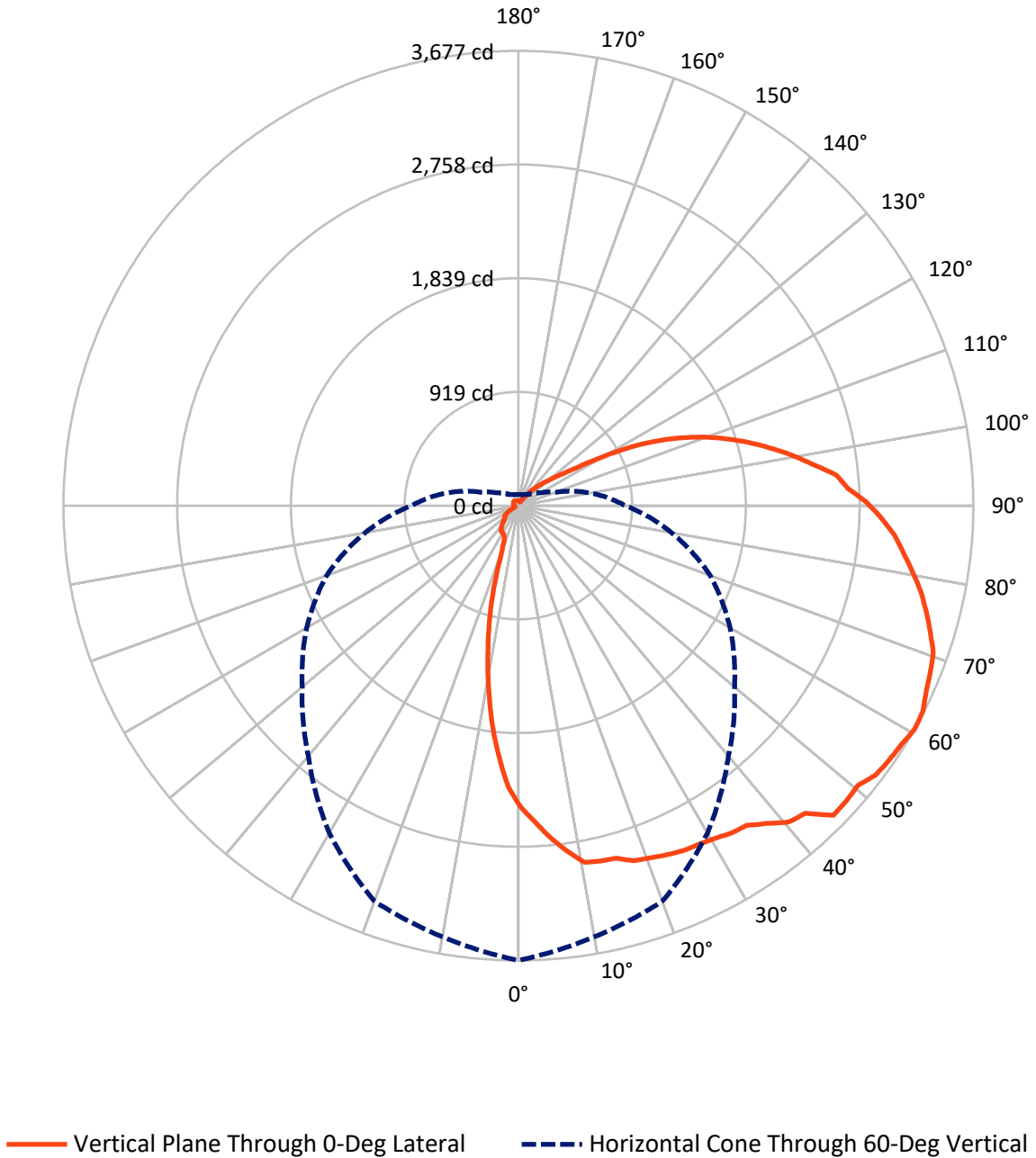
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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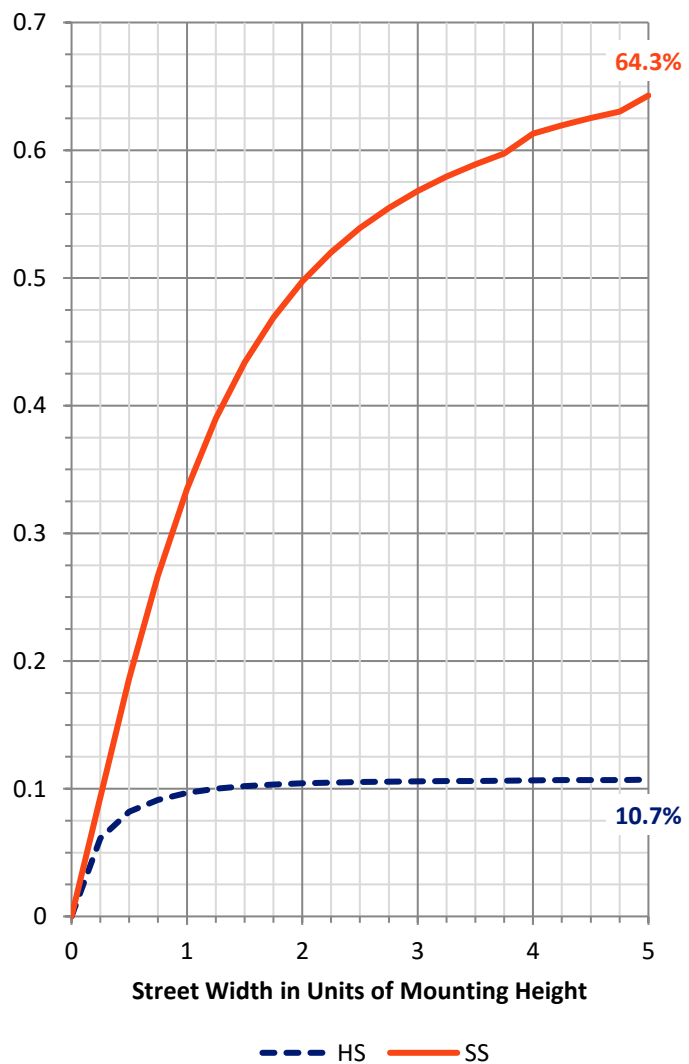
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1133.6	139.6	1273.2
	% Fixture	10.9	1.3	12.3
Street Side	Lumens	7360.8	1726.0	9086.8
	% Fixture	71.1	16.7	87.7
Total	Lumens	8494.4	1865.6	10360.0
	% Fixture	82.0	18.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.6	2.2
10°-20°	592.1	5.7
20°-30°	826.8	8.0
30°-40°	1007.0	9.7
40°-50°	1152.0	11.1
50°-60°	1249.6	12.1
60°-70°	1271.9	12.3
70°-80°	1172.9	11.3
80°-90°	997.5	9.6
90°-100°	775.8	7.5
100°-110°	534.7	5.2
110°-120°	296.7	2.9
120°-130°	132.0	1.3
130°-140°	64.3	0.6
140°-150°	30.4	0.3
150°-160°	17.5	0.2
160°-170°	10.7	0.1
170°-180°	3.5	0.0
0°-90°	8494.4	82.0
0°-180°	10360.0	100.0

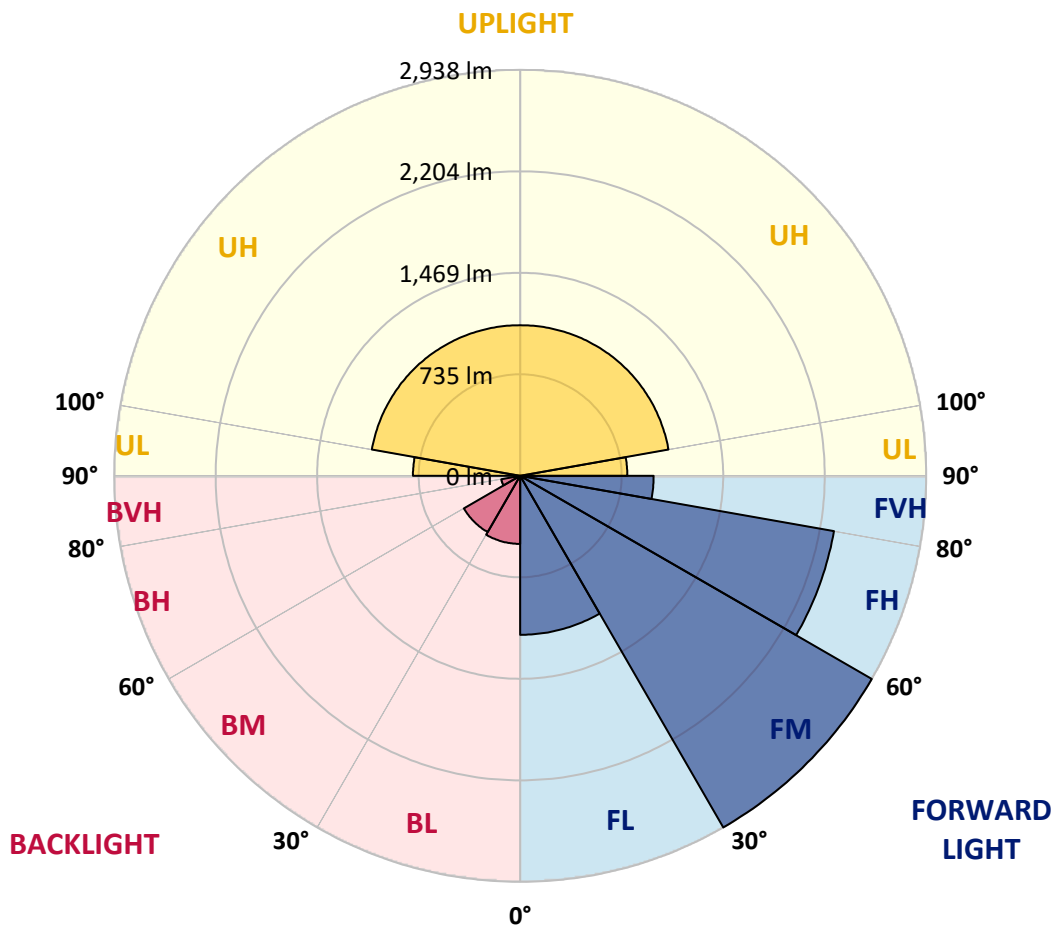


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1150.8	11.1			
FM (30°-60°)	2938.2	28.4			
FH (60°-80°)	2306.0	22.3			G2/5000
FVH (80°-90°)	965.7	9.3			G5
BL (0°-30°)	492.7	4.8	B1/500		
BM (30°-60°)	470.4	4.5	B1/1000		
BH (60°-80°)	138.7	1.3	B1/500		G1/500
BVH (80°-90°)	31.8	0.3			G1/100
UL (90°-100°)	775.8	7.5		U4/1000	
UH (100°-180°)	1089.8	10.5		U5	

BUG Rating: B1-U5-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2439.3	2439.3	2439.3	2439.3	2439.3	2439.3	2439.3	2439.3	2439.3	2439.3	2439.3
2.5°	2560.1	2550.4	2540.6	2537.1	2535.7	2528.3	2514.9	2493.7	2448.8	2403.9	2369.9
5°	2695.3	2684.2	2673.1	2661.9	2650.8	2618.4	2564.7	2511.9	2461.5	2411.1	2363.2
7.5°	2819.4	2804.2	2789.0	2749.7	2702.4	2662.3	2629.6	2583.0	2495.3	2407.7	2309.1
10°	2932.7	2917.1	2901.4	2871.9	2837.7	2775.1	2683.9	2587.2	2473.8	2360.5	2234.4
12.5°	2948.5	2919.8	2891.1	2884.1	2884.2	2832.9	2730.0	2620.6	2491.5	2362.4	2183.9
15°	2957.2	2914.7	2872.3	2848.8	2831.6	2788.8	2720.3	2631.5	2481.3	2331.1	2108.3
17.5°	3018.9	2961.1	2903.3	2875.6	2857.9	2813.7	2743.1	2645.2	2465.0	2284.9	2026.5
20°	3039.6	3006.6	2973.6	2923.8	2868.3	2801.8	2724.3	2616.5	2417.5	2218.6	1924.2
22.5°	3066.7	3026.2	2985.6	2925.6	2859.1	2785.1	2703.5	2588.1	2371.1	2154.1	1819.6
25°	3090.0	3058.6	3027.2	2950.9	2859.8	2764.6	2665.4	2536.3	2317.5	2098.7	1724.6
27.5°	3102.6	3069.9	3037.3	2940.0	2821.2	2707.9	2600.0	2463.2	2240.1	2017.0	1615.1
30°	3122.8	3077.9	3033.1	2916.7	2776.5	2651.8	2542.9	2405.1	2181.0	1956.9	1521.5
32.5°	3157.1	3100.2	3043.3	2913.9	2760.3	2615.2	2478.5	2320.4	2098.2	1876.0	1438.5
35°	3176.2	3115.9	3055.6	2918.5	2755.8	2598.7	2447.1	2271.7	2024.9	1778.0	1331.5
37.5°	3260.7	3173.7	3086.7	2917.1	2720.0	2532.2	2353.8	2160.4	1922.5	1684.5	1228.8
40°	3363.9	3258.8	3153.8	2944.9	2701.4	2482.7	2288.9	2082.2	1837.0	1591.7	1130.4
42.5°	3400.9	3307.9	3214.9	2987.2	2714.7	2461.0	2226.0	1989.7	1749.1	1508.5	1048.5
45°	3570.1	3431.8	3293.5	3031.3	2727.9	2451.4	2201.9	1949.9	1690.0	1430.2	969.5
47.5°	3566.3	3442.4	3318.6	3050.0	2733.3	2437.3	2162.1	1885.9	1606.5	1327.2	892.5
50°	3556.3	3446.1	3335.9	3058.2	2724.8	2404.1	2096.1	1795.7	1517.9	1240.0	830.7
52.5°	3616.5	3477.8	3339.1	3051.3	2713.7	2393.0	2089.4	1782.6	1466.2	1149.7	770.4
55°	3634.6	3497.7	3360.7	3053.4	2689.2	2356.0	2053.9	1741.4	1398.0	1054.5	710.1
57.5°	3647.5	3514.9	3382.4	3050.5	2652.2	2307.8	2017.5	1706.5	1333.6	960.7	650.8
60°	3677.1	3540.2	3403.3	3057.1	2641.2	2280.7	1975.7	1648.8	1255.9	862.9	589.2
62.5°	3667.7	3544.9	3422.1	3073.3	2649.2	2272.9	1944.6	1593.7	1175.1	756.4	522.3
65°	3621.6	3510.8	3400.0	3053.3	2628.1	2250.9	1921.6	1559.9	1100.8	641.8	449.9
67.5°	3591.2	3484.1	3377.1	3014.0	2565.7	2180.7	1859.0	1498.1	1019.2	540.2	384.0
70°	3556.7	3441.3	3326.0	2958.2	2506.4	2120.7	1801.0	1436.9	939.6	442.2	319.3
72.5°	3480.0	3379.0	3278.0	2905.4	2442.2	2045.3	1714.7	1343.0	848.4	353.7	260.4
75°	3404.0	3296.7	3189.4	2822.9	2370.0	1974.3	1635.9	1259.4	768.9	278.4	211.3
77.5°	3323.3	3214.7	3106.1	2744.0	2297.3	1897.3	1543.9	1161.0	689.5	218.1	171.0
80°	3229.5	3115.0	3000.4	2641.3	2200.6	1801.0	1442.4	1062.5	618.7	175.0	140.8
82.5°	3134.8	3017.3	2899.7	2543.1	2106.8	1704.6	1336.3	958.5	551.8	145.1	119.3
85°	3049.1	2934.9	2820.7	2461.2	2020.0	1609.1	1228.3	851.6	487.1	122.6	102.8
87.5°	2935.9	2815.0	2694.1	2341.7	1912.2	1505.5	1121.8	752.6	427.0	101.3	88.5
90°	2816.1	2694.3	2572.6	2227.6	1808.2	1406.5	1022.6	662.3	373.5	84.6	77.1
92.5°	2666.4	2550.2	2434.0	2102.0	1698.0	1302.4	915.3	563.9	319.8	75.6	70.8
95°	2580.4	2444.4	2308.4	1977.3	1581.1	1193.6	814.8	479.5	275.2	70.8	66.9
97.5°	2399.8	2282.1	2164.5	1847.6	1464.2	1089.3	722.7	405.6	236.9	68.2	64.5
100°	2244.9	2121.4	1997.9	1697.5	1338.1	984.9	638.1	343.6	205.7	67.8	63.5
102.5°	2080.9	1965.3	1849.7	1563.7	1221.0	886.9	561.4	289.6	178.9	68.2	62.8
105°	1920.1	1802.8	1685.6	1414.5	1092.2	783.1	487.1	243.3	156.0	68.7	62.3
107.5°	1752.6	1639.3	1526.0	1269.9	966.3	683.4	421.0	207.0	137.9	68.8	61.5
110°	1584.3	1466.6	1348.9	1108.0	826.2	575.7	356.7	178.7	123.5	68.4	60.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	1399.7	1282.0	1164.3	943.6	688.7	474.1	299.9	157.8	112.5	67.1	58.9
115°	1200.2	1088.0	975.7	780.9	558.5	380.3	246.4	137.0	101.2	65.4	57.1
117.5°	982.0	887.5	793.1	636.7	459.6	315.9	205.4	116.0	89.7	63.4	55.1
120°	750.1	681.6	613.2	500.9	374.0	264.7	173.1	99.5	80.0	60.5	52.8
122.5°	567.4	526.1	484.9	405.8	314.1	229.1	150.8	88.1	72.5	56.9	50.1
125°	449.5	426.6	403.7	342.6	268.7	198.4	131.7	78.5	66.0	53.5	47.8
127.5°	369.3	354.8	340.4	290.7	229.3	170.3	113.8	69.0	59.7	50.3	45.7
130°	305.2	295.9	286.5	243.3	188.8	139.2	94.5	59.5	53.5	47.4	43.8
132.5°	256.7	250.6	244.5	205.2	154.7	112.3	77.9	51.3	48.0	44.6	42.1
135°	218.8	211.7	204.6	170.0	126.2	91.3	65.2	45.3	43.8	42.2	40.6
137.5°	177.5	169.7	161.9	134.8	101.2	74.8	55.4	40.8	40.4	40.1	39.2
140°	138.7	132.4	126.1	105.6	80.4	61.0	47.6	37.5	37.7	37.9	37.6
142.5°	102.9	99.7	96.6	81.7	62.9	49.6	42.0	36.2	35.9	35.5	35.9
145°	75.3	73.1	70.9	61.5	49.7	42.1	38.9	36.1	34.6	33.1	34.5
147.5°	59.7	58.0	56.3	49.6	41.3	37.0	36.7	36.0	34.0	32.0	34.0
150°	49.2	47.5	45.8	41.1	35.4	33.4	35.3	36.2	34.3	32.4	34.3
152.5°	41.6	40.3	39.0	36.6	33.9	33.1	34.0	34.5	33.7	32.8	34.6
155°	35.7	34.4	33.1	32.8	32.8	32.9	33.1	33.2	33.2	33.2	34.9
157.5°	31.5	31.6	31.8	33.2	35.1	35.3	34.0	33.1	33.4	33.6	35.2
160°	32.5	32.9	33.3	34.4	35.8	35.8	34.5	33.5	33.7	34.0	35.5
162.5°	37.1	36.9	36.7	36.5	36.4	35.7	34.6	33.8	34.1	34.3	35.8
165°	38.2	37.7	37.2	36.1	34.9	34.2	34.1	34.1	34.4	34.7	36.0
167.5°	37.2	36.5	35.8	35.1	34.5	34.2	34.3	34.5	34.7	35.0	36.2
170°	35.0	34.8	34.6	34.6	34.7	34.8	34.9	35.0	35.1	35.3	36.3
172.5°	35.7	35.5	35.3	35.3	35.3	35.3	35.3	35.4	35.4	35.5	36.4
175°	36.5	36.3	36.1	36.0	36.0	36.0	35.8	35.7	35.7	35.7	36.5
177.5°	37.3	37.1	36.9	36.8	36.7	36.6	36.3	36.1	36.0	35.9	36.6
180°	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2439.3	2439.3	2439.3	2439.3	2439.3	2439.3	2439.3	2439.3
2.5°	2335.9	2316.6	2302.2	2286.6	2269.8	2259.8	2269.8	2279.9
5°	2315.3	2255.2	2191.0	2133.2	2081.9	2041.4	2033.3	2025.1
7.5°	2210.6	2110.8	2010.5	1928.2	1863.8	1809.2	1784.0	1758.9
10°	2108.4	1974.4	1837.8	1720.1	1621.2	1538.1	1502.3	1466.4
12.5°	2005.4	1827.4	1649.6	1493.9	1360.3	1251.5	1217.4	1183.2
15°	1885.6	1664.1	1443.0	1259.7	1114.2	995.3	956.2	917.0
17.5°	1768.1	1511.3	1255.1	1047.4	888.3	755.6	702.5	649.3
20°	1629.8	1348.2	1070.8	841.6	660.7	511.6	458.0	404.4
22.5°	1485.1	1180.4	885.7	654.0	485.2	352.5	328.1	303.8
25°	1350.4	1023.6	712.7	499.8	385.0	296.1	285.3	274.4
27.5°	1213.2	884.3	579.7	394.1	327.3	275.5	268.5	261.4
30°	1086.0	769.3	492.1	333.6	293.7	262.6	257.9	253.2
32.5°	1001.1	700.4	445.3	303.9	276.1	254.9	253.7	252.5
35°	885.0	612.2	397.5	280.9	262.5	248.5	247.4	246.4
37.5°	773.2	529.8	357.1	263.4	248.7	236.8	233.2	229.7
40°	669.0	454.1	321.4	247.4	232.0	219.1	213.6	208.2
42.5°	588.5	395.9	292.4	231.7	214.0	199.2	193.1	187.0
45°	508.8	337.6	262.9	216.2	197.3	181.4	174.2	167.1
47.5°	457.7	302.5	240.4	199.6	180.0	163.7	157.1	150.5
50°	421.4	276.8	220.4	182.4	162.9	147.7	145.9	144.0
52.5°	391.2	255.9	202.0	165.6	146.8	133.5	136.7	139.9
55°	365.6	238.8	184.5	148.8	131.6	119.8	124.4	128.9
57.5°	340.9	222.5	167.9	133.0	117.7	106.8	108.7	110.6
60°	315.5	206.3	152.0	118.0	104.3	93.6	92.2	90.7
62.5°	288.3	189.8	136.6	103.4	90.3	79.6	76.1	72.7
65°	258.1	171.8	120.8	87.9	73.2	61.4	57.9	54.5
67.5°	227.7	152.8	104.9	71.3	52.0	36.4	32.1	27.8
70°	196.3	132.8	89.2	58.6	41.2	28.1	28.3	28.6
72.5°	167.2	114.2	74.7	49.2	37.5	28.9	29.2	29.5
75°	144.3	101.6	67.1	45.3	36.4	29.8	30.1	30.5
77.5°	124.0	90.3	61.1	42.9	35.8	30.6	31.1	31.5
80°	106.6	79.6	54.9	40.1	35.1	31.5	32.0	32.4
82.5°	93.5	71.4	50.4	38.3	34.8	32.4	32.9	33.4
85°	83.1	65.0	47.4	37.4	35.0	33.3	33.9	34.4
87.5°	75.6	60.8	45.4	36.9	35.3	34.2	34.8	35.5
90°	69.7	57.6	44.0	36.7	35.7	35.1	35.8	36.4
92.5°	65.9	55.5	43.1	36.7	36.2	36.0	36.7	37.4
95°	63.0	53.7	42.5	36.8	36.7	36.8	37.5	38.3
97.5°	60.7	52.1	41.9	36.9	37.2	37.6	38.3	39.1
100°	59.1	50.9	41.5	37.1	37.7	38.3	39.1	39.9
102.5°	57.4	49.7	41.1	37.3	38.2	39.1	39.9	40.6
105°	55.9	48.5	40.9	37.6	38.7	39.8	40.6	41.4
107.5°	54.2	47.3	40.7	38.0	39.3	40.5	41.3	42.1
110°	52.4	46.2	40.5	38.4	39.9	41.2	42.0	42.8



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 CATALOG NUMBER: WPMLED25S-70W_SWITCH-4000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	50.7	45.1	40.4	38.8	40.5	41.9	42.7	43.5
115°	48.7	43.9	40.2	39.2	41.0	42.6	43.4	44.2
117.5°	46.8	42.7	40.0	39.7	41.6	43.2	44.0	44.8
120°	45.0	41.7	40.0	40.1	42.1	43.8	44.6	45.4
122.5°	43.4	41.0	39.9	40.5	42.6	44.4	45.1	45.9
125°	42.1	40.4	40.0	40.9	43.1	44.9	45.6	46.4
127.5°	41.0	40.0	40.1	41.3	43.5	45.3	46.0	46.7
130°	40.1	39.6	40.2	41.6	43.9	45.7	46.4	47.1
132.5°	39.5	39.5	40.4	42.0	44.2	46.1	46.7	47.4
135°	38.9	39.4	40.6	42.3	44.5	46.3	47.0	47.6
137.5°	38.3	39.2	40.7	42.6	44.7	46.5	47.1	47.8
140°	37.3	38.7	40.7	42.8	44.8	46.5	47.2	47.8
142.5°	36.3	38.2	40.7	42.9	44.9	46.5	47.1	47.8
145°	35.8	38.1	40.7	43.0	44.8	46.4	47.0	47.6
147.5°	36.0	38.3	40.8	42.9	44.7	46.1	46.7	47.3
150°	36.2	38.5	40.8	42.9	44.5	45.9	46.4	46.9
152.5°	36.5	38.6	40.8	42.7	44.2	45.4	45.9	46.4
155°	36.7	38.7	40.8	42.5	43.8	45.0	45.4	45.8
157.5°	36.9	38.7	40.6	42.2	43.4	44.5	44.8	45.2
160°	37.1	38.8	40.5	41.9	43.0	43.9	44.3	44.6
162.5°	37.2	38.7	40.3	41.6	42.6	43.4	43.6	43.9
165°	37.3	38.7	40.1	41.2	42.1	42.8	43.0	43.2
167.5°	37.3	38.6	39.8	40.8	41.5	42.1	42.2	42.4
170°	37.4	38.4	39.5	40.3	40.9	41.4	41.5	41.6
172.5°	37.4	38.3	39.2	39.9	40.4	40.7	40.7	40.7
175°	37.3	38.1	38.9	39.4	39.8	40.1	40.0	39.9
177.5°	37.2	37.9	38.5	38.9	39.2	39.4	39.2	39.1
180°	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7

(END OF REPORT)