

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: P511382

Luminaire Tested: **WPMLED25S-90W_SWITCH-5000K**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511382
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: WPMLD25S-90W_SWITCH-5000K
Description: WALLPACK SELECTABLE CCT
Light Source: (240) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12258 lumens
Efficiency: N/A
Efficacy: 133.4 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: B2 - U5 - G5

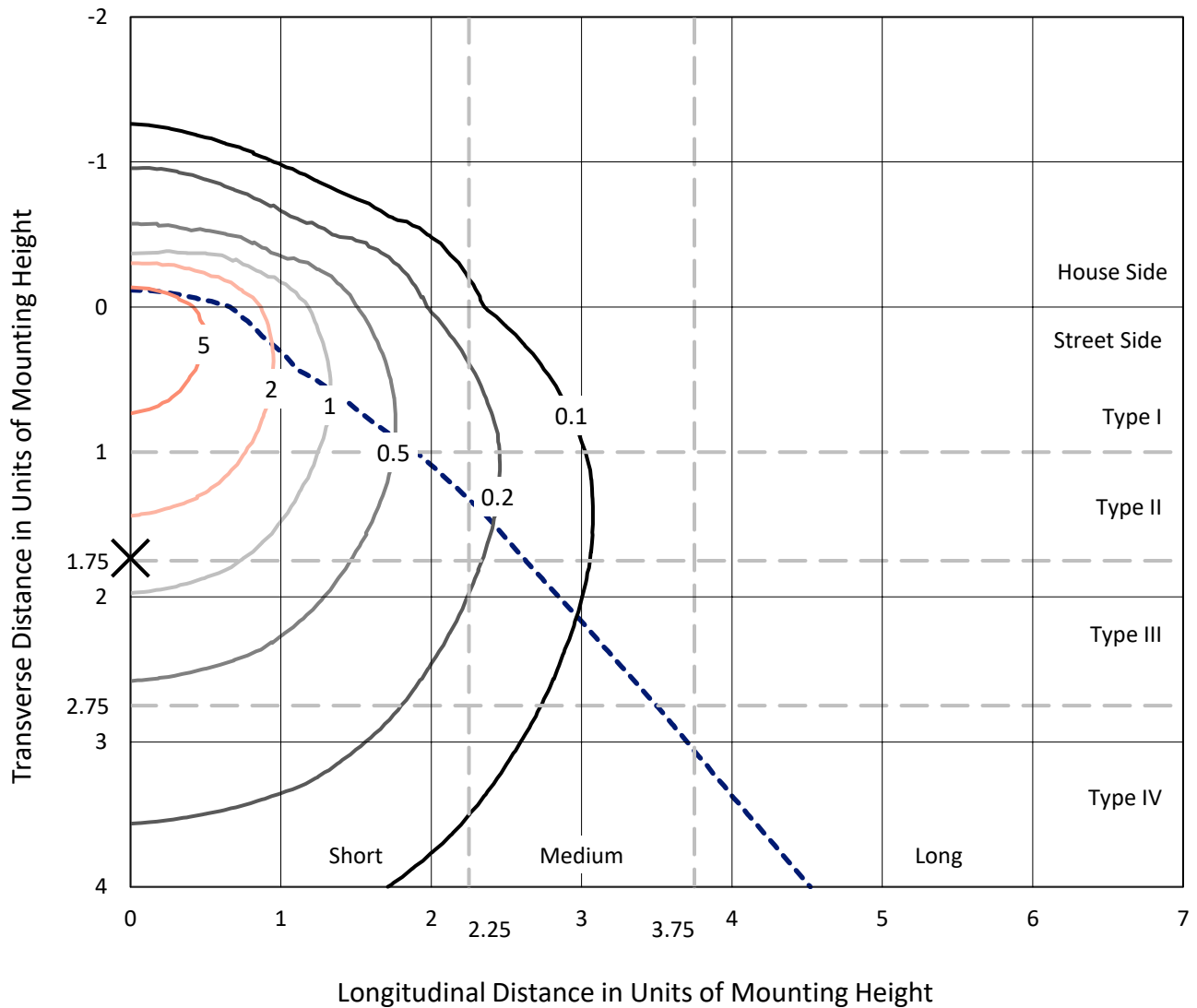
Input Watts (W): 91.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

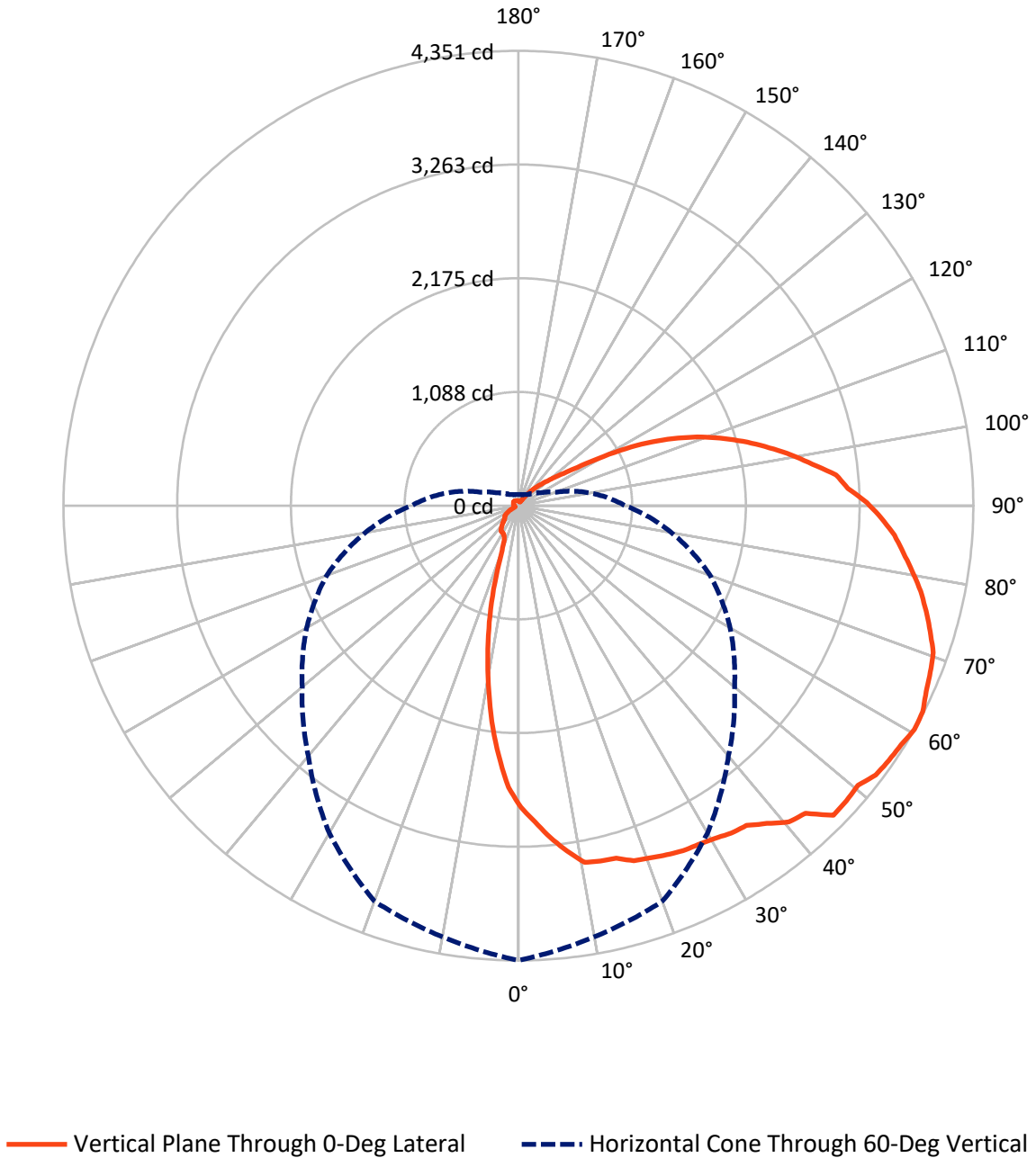
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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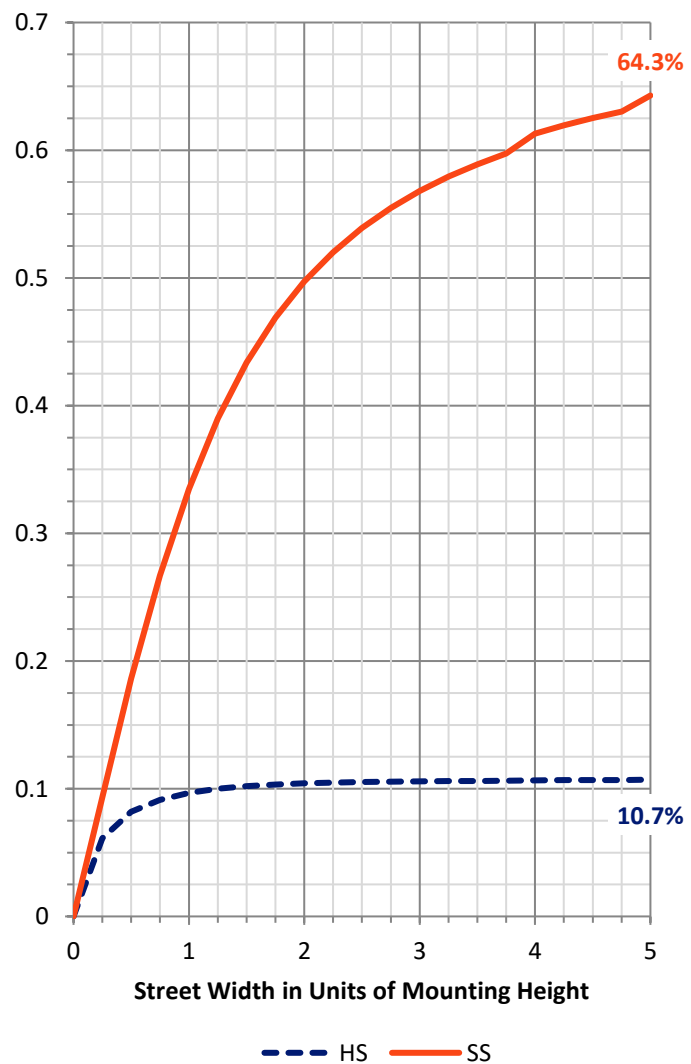
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1341.3	165.2	1506.5
	% Fixture	10.9	1.3	12.3
Street Side	Lumens	8709.3	2042.2	10751.6
	% Fixture	71.1	16.7	87.7
Total	Lumens	10050.6	2207.4	12258.0
	% Fixture	82.0	18.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.7	2.2
10°-20°	700.6	5.7
20°-30°	978.3	8.0
30°-40°	1191.5	9.7
40°-50°	1363.1	11.1
50°-60°	1478.5	12.1
60°-70°	1504.9	12.3
70°-80°	1387.8	11.3
80°-90°	1180.3	9.6
90°-100°	918.0	7.5
100°-110°	632.6	5.2
110°-120°	351.0	2.9
120°-130°	156.2	1.3
130°-140°	76.1	0.6
140°-150°	35.9	0.3
150°-160°	20.7	0.2
160°-170°	12.6	0.1
170°-180°	4.2	0.0
0°-90°	10050.6	82.0
0°-180°	12258.0	100.0



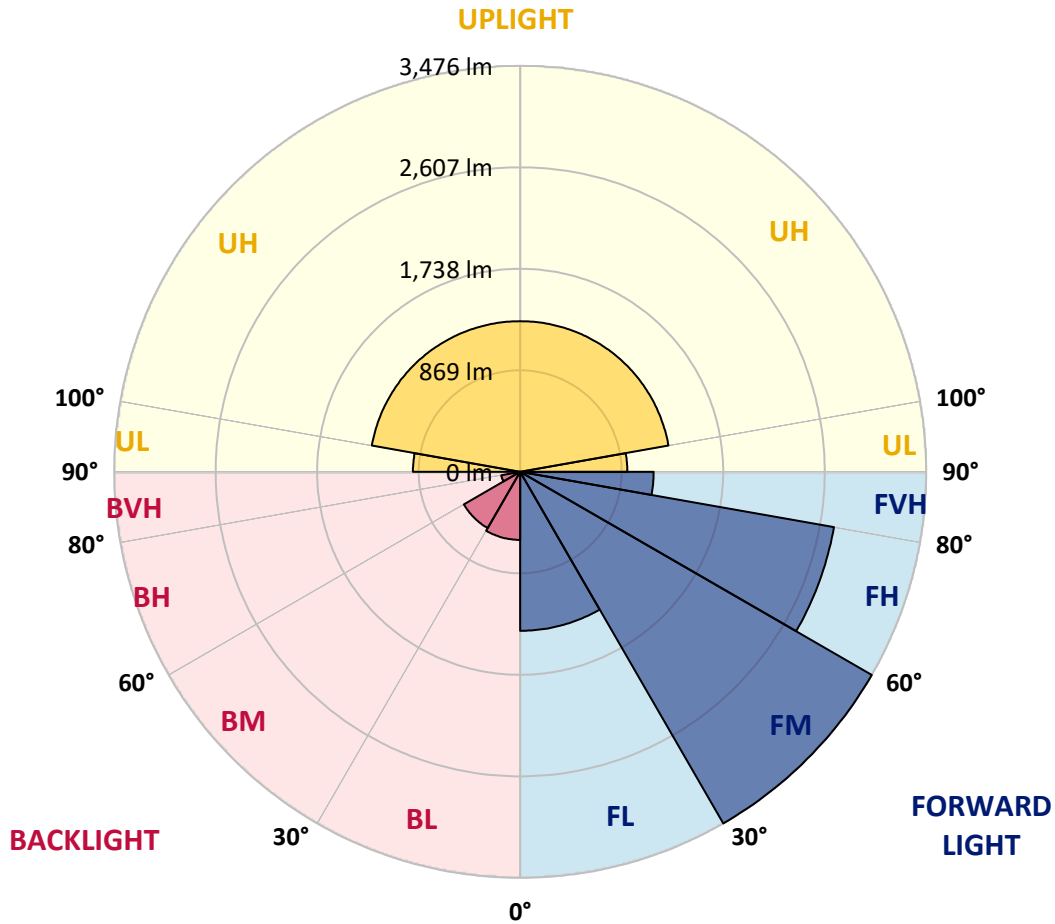
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1361.6	11.1			
FM (30°-60°)	3476.5	28.4			
FH (60°-80°)	2728.5	22.3			G2/5000
FVH (80°-90°)	1142.7	9.3			G5
BL (0°-30°)	583.0	4.8	B2/1000		
BM (30°-60°)	556.5	4.5	B1/1000		
BH (60°-80°)	164.1	1.3	B1/500		G1/500
BVH (80°-90°)	37.6	0.3			G1/100
UL (90°-100°)	918.0	7.5		U4/1000	
UH (100°-180°)	1289.4	10.5		U5	

BUG Rating: B2-U5-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1
2.5°	3029.1	3017.6	3006.1	3001.9	3000.3	2991.5	2975.7	2950.5	2897.4	2844.4	2804.1
5°	3189.1	3176.0	3162.8	3149.6	3136.4	3098.1	3034.6	2972.1	2912.4	2852.8	2796.1
7.5°	3335.9	3317.9	3300.0	3253.5	3197.5	3150.1	3111.3	3056.3	2952.5	2848.8	2732.2
10°	3470.0	3451.5	3433.0	3398.0	3357.6	3283.5	3175.6	3061.1	2927.1	2793.0	2643.8
12.5°	3488.7	3454.8	3420.8	3412.5	3412.7	3351.9	3230.1	3100.7	2947.9	2795.2	2584.0
15°	3499.0	3448.7	3398.5	3370.7	3350.4	3299.7	3218.7	3113.6	2935.8	2758.1	2494.6
17.5°	3572.0	3503.6	3435.2	3402.4	3381.4	3329.2	3245.7	3129.8	2916.6	2703.5	2397.8
20°	3596.5	3557.5	3518.4	3459.4	3393.8	3315.1	3223.4	3095.8	2860.4	2625.1	2276.7
22.5°	3628.6	3580.6	3532.6	3461.6	3382.9	3295.3	3198.8	3062.2	2805.5	2548.7	2152.9
25°	3656.1	3618.9	3581.8	3491.6	3383.7	3271.1	3153.7	3001.0	2742.1	2483.2	2040.5
27.5°	3671.0	3632.3	3593.7	3478.6	3338.1	3204.0	3076.3	2914.5	2650.5	2386.5	1911.0
30°	3694.9	3641.8	3588.8	3451.1	3285.1	3137.7	3008.7	2845.7	2580.6	2315.4	1800.2
32.5°	3735.5	3668.2	3600.9	3447.8	3266.0	3094.3	2932.5	2745.5	2482.6	2219.7	1702.1
35°	3758.0	3686.7	3615.3	3453.2	3260.7	3074.8	2895.5	2687.9	2395.8	2103.7	1575.4
37.5°	3858.1	3755.1	3652.1	3451.5	3218.3	2996.2	2785.0	2556.2	2274.7	1993.1	1454.0
40°	3980.2	3855.9	3731.6	3484.4	3196.3	2937.6	2708.2	2463.7	2173.5	1883.3	1337.5
42.5°	4024.0	3913.9	3803.9	3534.5	3212.0	2911.8	2633.9	2354.2	2069.6	1784.9	1240.6
45°	4224.1	4060.5	3896.9	3586.7	3227.6	2900.5	2605.3	2307.1	1999.6	1692.2	1147.1
47.5°	4219.6	4073.1	3926.5	3608.8	3234.0	2883.8	2558.2	2231.4	1900.9	1570.4	1056.0
50°	4207.8	4077.4	3947.0	3618.5	3223.9	2844.5	2480.1	2124.7	1795.9	1467.2	982.9
52.5°	4279.0	4115.0	3950.9	3610.3	3210.8	2831.5	2472.2	2109.2	1734.8	1360.4	911.6
55°	4300.5	4138.5	3976.5	3612.8	3181.9	2787.7	2430.2	2060.4	1654.1	1247.7	840.2
57.5°	4315.7	4158.9	4002.0	3609.4	3138.1	2730.6	2387.1	2019.1	1577.9	1136.7	770.0
60°	4350.7	4188.7	4026.8	3617.2	3125.0	2698.6	2337.7	1950.8	1485.9	1021.0	697.2
62.5°	4339.6	4194.3	4049.0	3636.3	3134.5	2689.3	2300.9	1885.7	1390.3	895.0	618.0
65°	4285.1	4154.0	4022.8	3612.7	3109.6	2663.3	2273.6	1845.6	1302.5	759.4	532.4
67.5°	4249.1	4122.4	3995.8	3566.2	3035.7	2580.2	2199.6	1772.5	1205.9	639.2	454.3
70°	4208.3	4071.8	3935.3	3500.2	2965.6	2509.2	2131.0	1700.2	1111.7	523.2	377.7
72.5°	4117.6	3998.1	3878.6	3437.7	2889.7	2420.0	2028.8	1589.1	1003.8	418.5	308.2
75°	4027.6	3900.7	3773.7	3340.1	2804.1	2336.0	1935.6	1490.2	909.8	329.4	250.0
77.5°	3932.1	3803.6	3675.1	3246.7	2718.2	2244.9	1826.7	1373.6	815.8	258.1	202.4
80°	3821.2	3685.7	3550.1	3125.2	2603.8	2130.9	1706.6	1257.1	732.1	207.0	166.6
82.5°	3709.2	3570.1	3431.0	3009.0	2492.8	2016.9	1581.2	1134.1	652.9	171.7	141.2
85°	3607.8	3472.6	3337.4	2912.1	2390.1	1903.9	1453.4	1007.7	576.4	145.0	121.7
87.5°	3473.8	3330.7	3187.7	2770.7	2262.5	1781.4	1327.3	890.5	505.2	119.9	104.7
90°	3332.0	3187.9	3043.9	2635.7	2139.5	1664.2	1209.9	783.7	441.9	100.1	91.3
92.5°	3154.9	3017.4	2879.9	2487.1	2009.1	1541.1	1083.0	667.2	378.3	89.5	83.7
95°	3053.1	2892.2	2731.3	2339.6	1870.8	1412.3	964.0	567.4	325.6	83.8	79.2
97.5°	2839.5	2700.2	2561.0	2186.0	1732.5	1288.8	855.1	479.9	280.3	80.7	76.3
100°	2656.2	2510.1	2364.0	2008.5	1583.2	1165.4	755.0	406.5	243.4	80.3	75.1
102.5°	2462.2	2325.4	2188.6	1850.2	1444.7	1049.4	664.3	342.7	211.7	80.7	74.3
105°	2271.9	2133.1	1994.4	1673.7	1292.3	926.5	576.3	287.9	184.6	81.3	73.7
107.5°	2073.7	1939.6	1805.5	1502.6	1143.4	808.6	498.2	244.9	163.2	81.4	72.7
110°	1874.6	1735.3	1596.0	1311.0	977.5	681.2	422.1	211.5	146.2	80.9	71.4



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CATALOG NUMBER: WPMLD25S-90W_SWITCH-5000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	1656.1	1516.8	1377.6	1116.5	814.9	561.0	354.8	186.8	133.1	79.4	69.7
115°	1420.1	1287.3	1154.5	923.9	660.8	450.0	291.6	162.2	119.8	77.4	67.5
117.5°	1161.9	1050.2	938.4	753.4	543.8	373.7	243.0	137.2	106.1	75.0	65.1
120°	887.6	806.5	725.5	592.6	442.5	313.2	204.8	117.7	94.7	71.6	62.4
122.5°	671.3	622.5	573.7	480.1	371.7	271.1	178.4	104.3	85.8	67.3	59.3
125°	531.8	504.7	477.6	405.3	317.9	234.7	155.8	92.9	78.1	63.3	56.5
127.5°	436.9	419.8	402.7	343.9	271.3	201.5	134.6	81.7	70.6	59.6	54.0
130°	361.1	350.1	339.0	287.9	223.3	164.7	111.9	70.5	63.3	56.1	51.8
132.5°	303.7	296.5	289.3	242.8	183.1	132.9	92.2	60.7	56.8	52.8	49.8
135°	258.9	250.5	242.0	201.1	149.3	108.0	77.2	53.6	51.8	50.0	48.0
137.5°	210.1	200.8	191.5	159.4	119.8	88.5	65.6	48.3	47.9	47.4	46.3
140°	164.2	156.7	149.2	125.0	95.1	72.2	56.3	44.4	44.6	44.8	44.5
142.5°	121.7	118.0	114.3	96.7	74.4	58.7	49.7	42.8	42.5	42.1	42.5
145°	89.1	86.5	83.9	72.8	58.8	49.8	46.0	42.7	40.9	39.1	40.8
147.5°	70.7	68.6	66.6	58.7	48.8	43.7	43.4	42.6	40.2	37.9	40.2
150°	58.2	56.2	54.2	48.6	41.9	39.6	41.7	42.8	40.6	38.3	40.6
152.5°	49.2	47.7	46.1	43.3	40.1	39.1	40.3	40.9	39.8	38.8	41.0
155°	42.2	40.7	39.2	38.9	38.9	39.0	39.1	39.2	39.3	39.3	41.3
157.5°	37.3	37.4	37.6	39.3	41.5	41.8	40.3	39.2	39.5	39.7	41.7
160°	38.5	39.0	39.4	40.7	42.4	42.4	40.8	39.6	39.9	40.2	42.0
162.5°	43.9	43.6	43.4	43.2	43.1	42.3	40.9	40.0	40.3	40.6	42.3
165°	45.2	44.6	44.0	42.7	41.3	40.5	40.4	40.4	40.7	41.0	42.6
167.5°	44.1	43.2	42.3	41.5	40.8	40.5	40.6	40.8	41.1	41.4	42.8
170°	41.5	41.2	40.9	40.9	41.0	41.1	41.2	41.4	41.5	41.7	43.0
172.5°	42.3	42.0	41.8	41.8	41.8	41.8	41.8	41.8	41.9	42.0	43.1
175°	43.2	42.9	42.7	42.6	42.6	42.5	42.4	42.3	42.3	42.3	43.2
177.5°	44.2	43.9	43.7	43.6	43.5	43.3	42.9	42.7	42.6	42.5	43.3
180°	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1
2.5°	2763.9	2741.0	2723.9	2705.5	2685.7	2673.8	2685.7	2697.6
5°	2739.5	2668.3	2592.4	2524.1	2463.4	2415.4	2405.8	2396.1
7.5°	2615.6	2497.5	2378.9	2281.4	2205.2	2140.6	2110.9	2081.1
10°	2494.6	2336.1	2174.5	2035.2	1918.3	1819.9	1777.5	1735.1
12.5°	2372.8	2162.2	1951.9	1767.6	1609.5	1480.8	1440.4	1400.0
15°	2231.1	1969.0	1707.3	1490.5	1318.3	1177.7	1131.3	1085.0
17.5°	2092.1	1788.2	1485.0	1239.3	1051.0	894.1	831.2	768.2
20°	1928.4	1595.2	1267.0	995.8	781.7	605.3	541.9	478.4
22.5°	1757.1	1396.7	1048.0	773.8	574.0	417.1	388.3	359.5
25°	1597.8	1211.2	843.2	591.3	455.5	350.4	337.6	324.7
27.5°	1435.5	1046.3	685.9	466.3	387.3	326.0	317.7	309.3
30°	1285.0	910.2	582.2	394.7	347.5	310.7	305.2	299.6
32.5°	1184.5	828.7	526.9	359.5	326.6	301.6	300.2	298.7
35°	1047.1	724.4	470.3	332.3	310.6	294.0	292.8	291.5
37.5°	914.8	626.8	422.5	311.7	294.3	280.2	276.0	271.8
40°	791.6	537.3	380.3	292.7	274.5	259.2	252.8	246.3
42.5°	696.4	468.4	345.9	274.2	253.2	235.7	228.4	221.2
45°	602.0	399.4	311.1	255.8	233.5	214.6	206.1	197.7
47.5°	541.6	357.9	284.4	236.1	213.0	193.7	185.9	178.1
50°	498.6	327.5	260.8	215.9	192.7	174.8	172.6	170.4
52.5°	462.8	302.8	239.0	195.9	173.7	158.0	161.7	165.5
55°	432.6	282.6	218.4	176.1	155.7	141.8	147.2	152.6
57.5°	403.3	263.2	198.7	157.3	139.3	126.3	128.6	130.8
60°	373.3	244.2	179.9	139.6	123.4	110.7	109.0	107.3
62.5°	341.1	224.6	161.6	122.3	106.9	94.2	90.1	86.0
65°	305.4	203.3	142.9	104.0	86.7	72.6	68.6	64.5
67.5°	269.4	180.8	124.1	84.4	61.5	43.1	38.0	32.9
70°	232.3	157.2	105.6	69.4	48.7	33.2	33.5	33.8
72.5°	197.8	135.1	88.4	58.2	44.4	34.2	34.6	34.9
75°	170.7	120.2	79.4	53.7	43.1	35.2	35.6	36.1
77.5°	146.7	106.8	72.3	50.8	42.4	36.3	36.8	37.2
80°	126.2	94.2	65.0	47.5	41.6	37.3	37.8	38.4
82.5°	110.7	84.4	59.7	45.3	41.2	38.3	39.0	39.6
85°	98.3	76.9	56.1	44.3	41.4	39.4	40.1	40.7
87.5°	89.5	72.0	53.7	43.6	41.7	40.5	41.2	42.0
90°	82.5	68.2	52.0	43.4	42.2	41.5	42.3	43.1
92.5°	78.0	65.6	51.0	43.4	42.8	42.5	43.4	44.2
95°	74.6	63.5	50.2	43.5	43.4	43.5	44.4	45.3
97.5°	71.8	61.7	49.6	43.7	44.0	44.4	45.3	46.2
100°	69.9	60.3	49.1	43.9	44.6	45.3	46.3	47.2
102.5°	67.9	58.8	48.7	44.2	45.2	46.2	47.2	48.1
105°	66.2	57.4	48.3	44.5	45.8	47.1	48.0	49.0
107.5°	64.1	56.0	48.1	45.0	46.5	47.9	48.9	49.9
110°	62.0	54.6	47.9	45.5	47.2	48.8	49.7	50.7



REPORT NUMBER: P511382

CATALOG NUMBER: WPMLED25S-90W_SWITCH-5000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	60.0	53.4	47.8	45.9	47.9	49.6	50.5	51.5
115°	57.7	51.9	47.5	46.4	48.5	50.4	51.3	52.3
117.5°	55.3	50.5	47.4	46.9	49.2	51.1	52.1	53.0
120°	53.2	49.3	47.3	47.4	49.8	51.8	52.8	53.7
122.5°	51.4	48.5	47.2	47.9	50.4	52.5	53.4	54.3
125°	49.8	47.7	47.3	48.4	51.0	53.1	54.0	54.9
127.5°	48.5	47.3	47.4	48.8	51.5	53.6	54.5	55.3
130°	47.5	46.9	47.6	49.2	51.9	54.1	54.9	55.7
132.5°	46.7	46.7	47.8	49.7	52.3	54.5	55.3	56.1
135°	46.1	46.7	48.1	50.1	52.7	54.8	55.6	56.3
137.5°	45.3	46.4	48.2	50.4	52.9	55.0	55.7	56.5
140°	44.1	45.8	48.2	50.6	53.0	55.0	55.8	56.5
142.5°	42.9	45.2	48.1	50.8	53.1	55.0	55.8	56.5
145°	42.4	45.1	48.2	50.8	53.0	54.9	55.6	56.3
147.5°	42.5	45.3	48.3	50.8	52.9	54.6	55.2	55.9
150°	42.9	45.5	48.3	50.7	52.6	54.3	54.9	55.5
152.5°	43.2	45.7	48.3	50.5	52.3	53.8	54.3	54.9
155°	43.4	45.8	48.2	50.3	51.9	53.2	53.7	54.2
157.5°	43.6	45.8	48.1	49.9	51.4	52.6	53.0	53.5
160°	43.8	45.8	47.9	49.6	50.9	52.0	52.4	52.8
162.5°	44.0	45.8	47.7	49.2	50.4	51.3	51.6	51.9
165°	44.1	45.8	47.4	48.8	49.8	50.6	50.8	51.1
167.5°	44.2	45.6	47.1	48.2	49.1	49.8	50.0	50.2
170°	44.2	45.5	46.7	47.7	48.4	49.0	49.1	49.2
172.5°	44.2	45.3	46.4	47.2	47.8	48.2	48.2	48.2
175°	44.2	45.1	46.0	46.7	47.1	47.4	47.3	47.3
177.5°	44.1	44.8	45.5	46.1	46.4	46.6	46.4	46.2
180°	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2

(END OF REPORT)