

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: P511372

Luminaire Tested: **WPMLED25S-100W_SWITCH-4000K**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511372
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-100W_SWITCH-4000K
Description: WALLPACK SELECTABLE CCT
Light Source: (240) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13376 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 0.26' x H: 0.45')
IES Classification: Type IV - Short
BUG Rating: B2 - U5 - G5

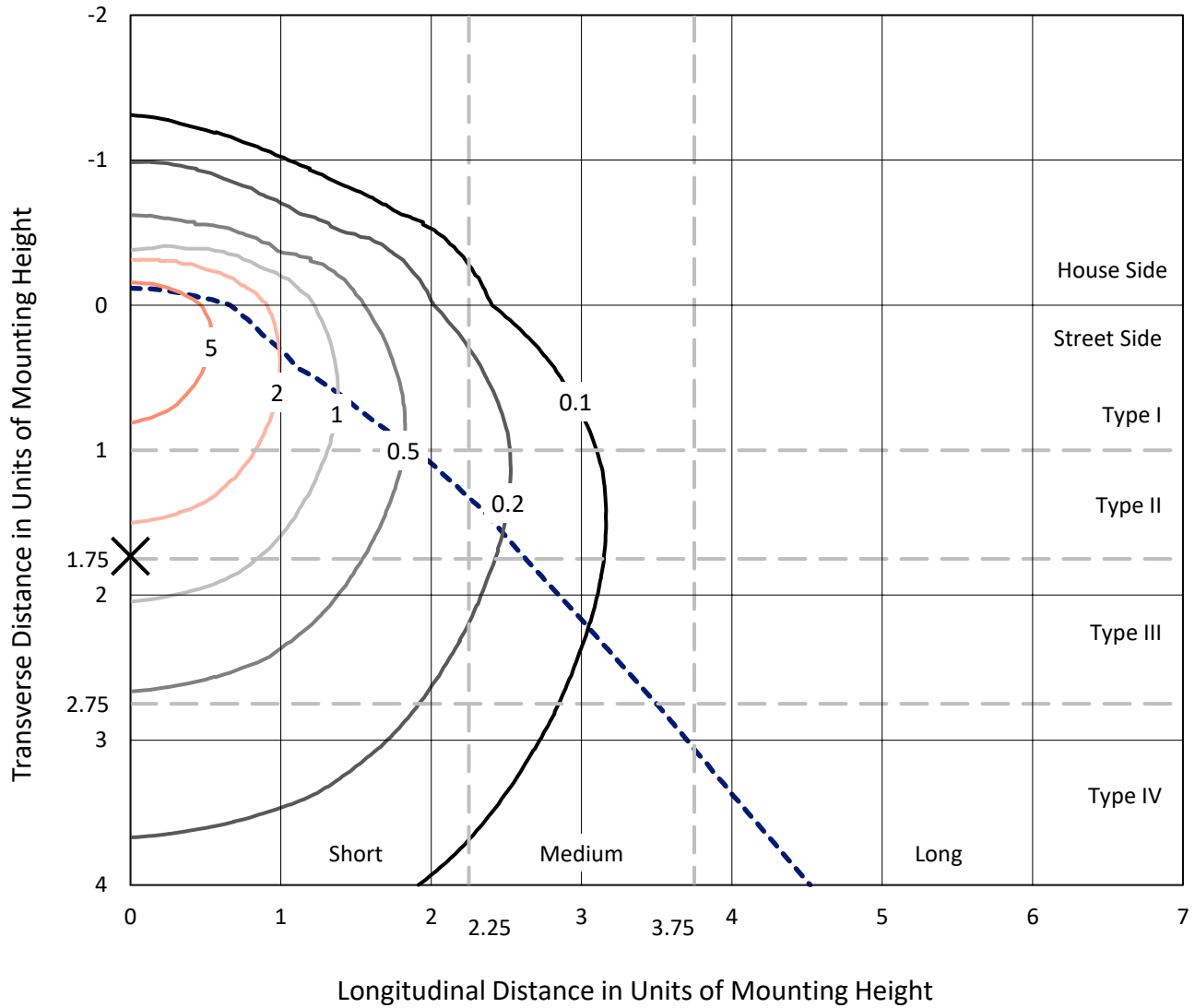
Input Watts (W): 96.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P511372
 CATALOG NUMBER: WPMLD25S-100W_SWITCH-4000K

Iso-Footcandle Lines of Horizontal Illumination

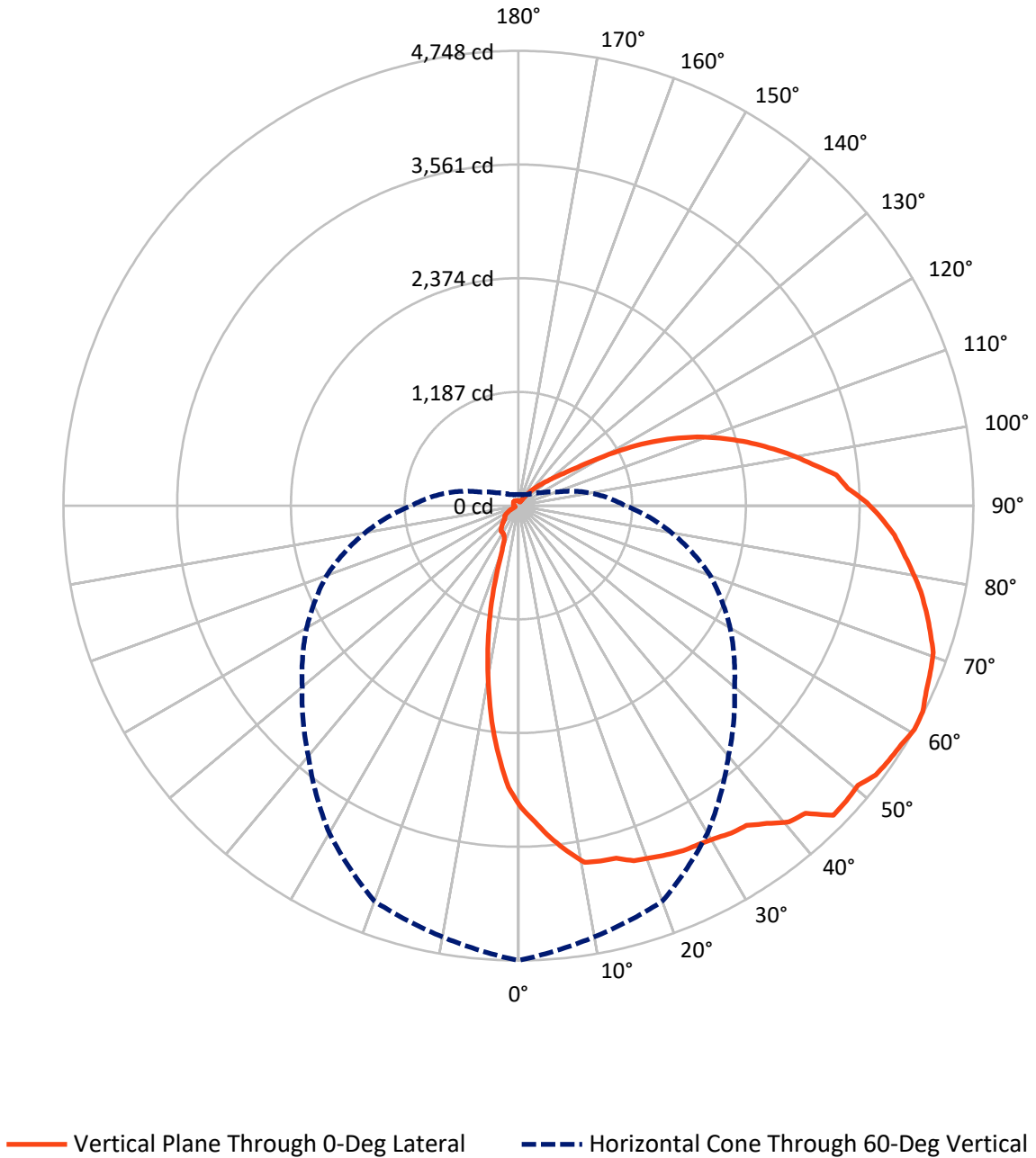
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P511372
CATALOG NUMBER: WPML25S-100W_SWITCH-4000K

Luminous Intensity Polar Plot



REPORT NUMBER: P511372
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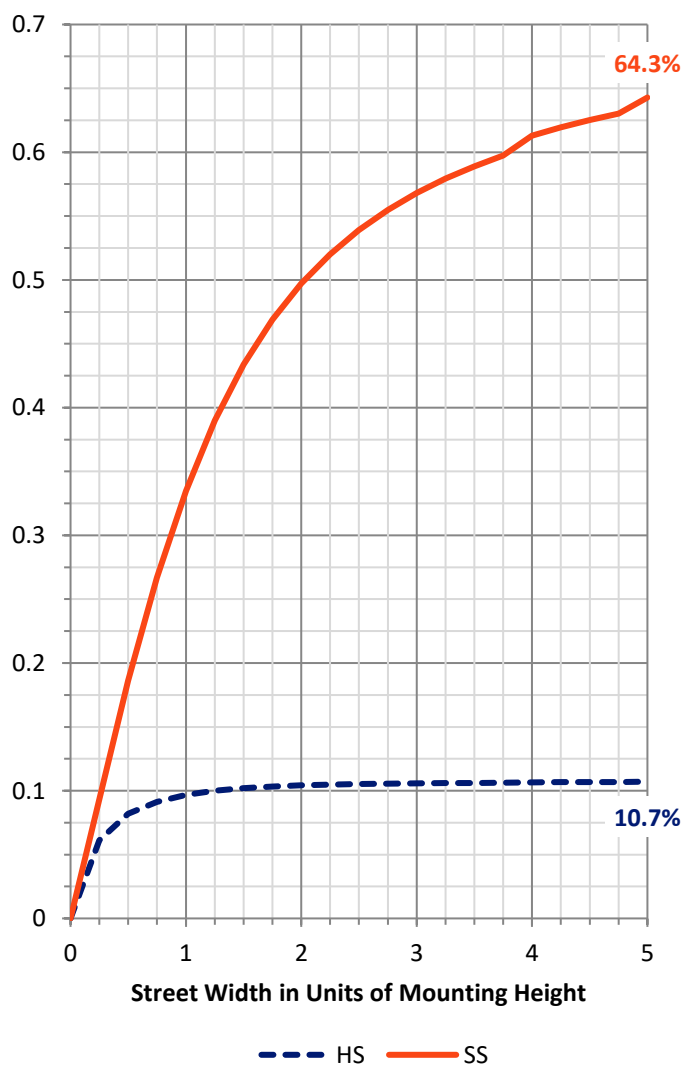
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1463.6	180.3	1643.8
	% Fixture	10.9	1.3	12.3
Street Side	Lumens	9503.7	2228.5	11732.1
	% Fixture	71.1	16.7	87.7
Total	Lumens	10967.3	2408.7	13376.0
	% Fixture	82.0	18.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.0	2.2
10°-20°	764.5	5.7
20°-30°	1067.5	8.0
30°-40°	1300.1	9.7
40°-50°	1487.4	11.1
50°-60°	1613.3	12.1
60°-70°	1642.2	12.3
70°-80°	1514.3	11.3
80°-90°	1287.9	9.6
90°-100°	1001.7	7.5
100°-110°	690.3	5.2
110°-120°	383.1	2.9
120°-130°	170.5	1.3
130°-140°	83.1	0.6
140°-150°	39.2	0.3
150°-160°	22.6	0.2
160°-170°	13.8	0.1
170°-180°	4.6	0.0
0°-90°	10967.3	82.0
0°-180°	13376.0	100.0

Coefficient of Utilization



REPORT NUMBER: P511372

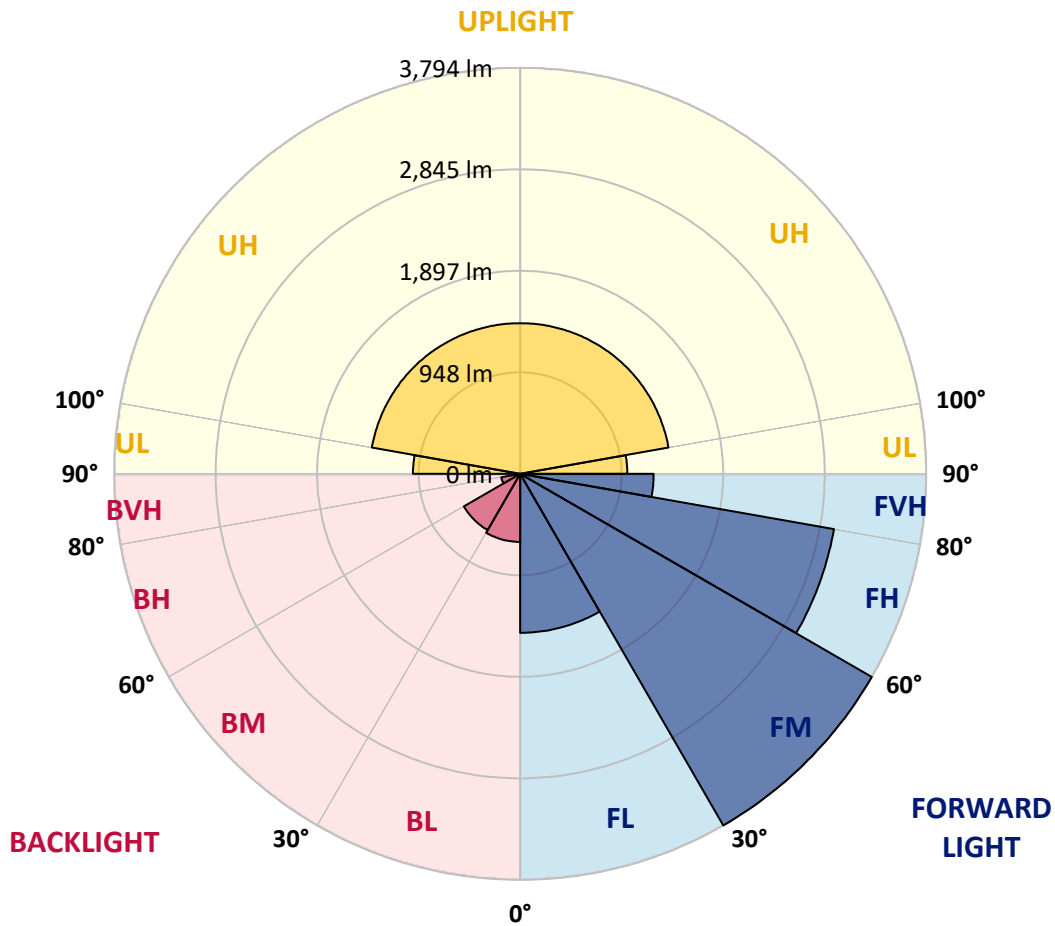
CATALOG NUMBER: WPMLD25S-100W_SWITCH-4000K

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1485.8	11.1			
FM (30°-60°)	3793.6	28.4			
FH (60°-80°)	2977.4	22.3			G2/5000
FVH (80°-90°)	1246.9	9.3			G5
BL (0°-30°)	636.2	4.8	B2/1000		
BM (30°-60°)	607.3	4.5	B1/1000		
BH (60°-80°)	179.1	1.3	B1/500		G1/500
BVH (80°-90°)	41.0	0.3			G1/100
UL (90°-100°)	1001.7	7.5		U5	
UH (100°-180°)	1407.0	10.5		U5	

BUG Rating: B2-U5-G5

Type IV Short





REPORT NUMBER: P511372

CATALOG NUMBER: WPMLED25S-100W_SWITCH-4000K

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	3149.4	3149.4	3149.4	3149.4	3149.4	3149.4	3149.4	3149.4	3149.4	3149.4	3149.4
2.5°	3305.4	3292.8	3280.2	3275.7	3273.9	3264.4	3247.1	3219.6	3161.7	3103.8	3059.9
5°	3479.9	3465.6	3451.3	3436.9	3422.5	3380.6	3311.4	3243.2	3178.1	3113.0	3051.1
7.5°	3640.2	3620.6	3601.0	3550.2	3489.1	3437.4	3395.1	3335.0	3221.8	3108.6	2981.4
10°	3786.5	3766.3	3746.1	3708.0	3663.9	3582.9	3465.2	3340.3	3194.0	3047.7	2884.9
12.5°	3806.9	3769.9	3732.8	3723.7	3723.9	3657.6	3524.8	3383.5	3216.8	3050.1	2819.6
15°	3818.1	3763.3	3708.4	3678.1	3655.9	3600.7	3512.3	3397.5	3203.6	3009.7	2722.1
17.5°	3897.8	3823.2	3748.5	3712.7	3689.8	3632.8	3541.7	3415.2	3182.7	2950.1	2616.5
20°	3924.5	3881.9	3839.3	3775.0	3703.4	3617.5	3517.4	3378.2	3121.3	2864.5	2484.4
22.5°	3959.5	3907.1	3854.8	3777.3	3691.5	3595.9	3490.6	3341.5	3061.3	2781.2	2349.3
25°	3989.5	3949.0	3908.4	3810.0	3692.3	3569.4	3441.4	3274.7	2992.2	2709.7	2226.6
27.5°	4005.8	3963.6	3921.5	3795.9	3642.5	3496.2	3356.8	3180.3	2892.3	2604.2	2085.3
30°	4031.9	3974.0	3916.1	3765.8	3584.7	3423.8	3283.1	3105.3	2816.0	2526.6	1964.4
32.5°	4076.2	4002.8	3929.3	3762.2	3563.9	3376.5	3200.0	2995.9	2709.0	2422.1	1857.3
35°	4100.8	4022.9	3945.1	3768.1	3558.1	3355.3	3159.5	2933.1	2614.3	2295.6	1719.1
37.5°	4209.9	4097.6	3985.2	3766.3	3511.9	3269.4	3039.0	2789.4	2482.1	2174.9	1586.6
40°	4343.2	4207.6	4071.9	3802.3	3487.9	3205.5	2955.2	2688.4	2371.7	2055.1	1459.4
42.5°	4391.0	4270.9	4150.8	3856.9	3505.0	3177.4	2874.1	2568.9	2258.3	1947.7	1353.8
45°	4609.4	4430.9	4252.3	3913.8	3522.0	3165.0	2842.9	2517.5	2182.0	1846.5	1251.7
47.5°	4604.5	4444.6	4284.7	3938.0	3529.0	3146.8	2791.5	2434.9	2074.2	1713.6	1152.3
50°	4591.6	4449.3	4307.0	3948.5	3518.0	3103.9	2706.3	2318.5	1959.7	1601.0	1072.5
52.5°	4669.3	4490.3	4311.2	3939.5	3503.7	3089.7	2697.7	2301.6	1893.0	1484.4	994.7
55°	4692.7	4515.9	4339.1	3942.3	3472.1	3041.9	2651.8	2248.4	1805.0	1361.5	916.8
57.5°	4709.3	4538.2	4367.0	3938.5	3424.3	2979.7	2604.8	2203.3	1721.8	1240.4	840.2
60°	4747.5	4570.8	4394.0	3947.1	3410.1	2944.7	2550.9	2128.7	1621.5	1114.2	760.8
62.5°	4735.4	4576.9	4418.3	3968.0	3420.4	2934.6	2510.7	2057.7	1517.1	976.6	674.4
65°	4675.9	4532.8	4389.7	3942.2	3393.3	2906.2	2481.0	2014.0	1421.3	828.7	580.9
67.5°	4636.6	4498.4	4360.2	3891.5	3312.6	2815.5	2400.2	1934.2	1315.9	697.5	495.8
70°	4592.2	4443.2	4294.2	3819.4	3236.1	2738.0	2325.3	1855.3	1213.1	570.9	412.2
72.5°	4493.2	4362.8	4232.3	3751.2	3153.2	2640.8	2213.8	1734.0	1095.3	456.7	336.3
75°	4394.9	4256.4	4117.9	3644.7	3059.9	2549.0	2112.1	1626.1	992.7	359.4	272.8
77.5°	4290.7	4150.5	4010.3	3542.8	2966.2	2449.7	1993.3	1498.9	890.3	281.6	220.8
80°	4169.7	4021.8	3873.9	3410.2	2841.2	2325.2	1862.2	1371.8	798.8	225.9	181.8
82.5°	4047.5	3895.7	3743.9	3283.5	2720.2	2200.8	1725.4	1237.5	712.5	187.4	154.1
85°	3936.8	3789.3	3641.8	3177.7	2608.1	2077.5	1585.9	1099.6	628.9	158.3	132.8
87.5°	3790.6	3634.5	3478.4	3023.4	2468.9	1943.8	1448.4	971.7	551.3	130.8	114.2
90°	3635.9	3478.7	3321.5	2876.1	2334.6	1816.0	1320.2	855.2	482.2	109.2	99.6
92.5°	3442.7	3292.6	3142.6	2713.9	2192.3	1681.6	1181.7	728.1	412.9	97.7	91.4
95°	3331.6	3156.0	2980.5	2552.9	2041.4	1541.1	1051.9	619.1	355.3	91.4	86.4
97.5°	3098.4	2946.5	2794.6	2385.4	1890.5	1406.4	933.1	523.7	305.9	88.1	83.2
100°	2898.4	2739.0	2579.6	2191.7	1727.6	1271.7	823.9	443.6	265.6	87.6	81.9
102.5°	2686.7	2537.5	2388.2	2019.0	1576.4	1145.1	724.8	373.9	231.0	88.1	81.1
105°	2479.1	2327.7	2176.3	1826.3	1410.2	1011.0	628.9	314.1	201.4	88.8	80.5
107.5°	2262.8	2116.5	1970.2	1639.7	1247.7	882.3	543.6	267.3	178.1	88.8	79.4
110°	2045.5	1893.5	1741.6	1430.6	1066.7	743.3	460.6	230.8	159.5	88.3	78.0



REPORT NUMBER: P511372

CATALOG NUMBER: WPMLED25S-100W_SWITCH-4000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	1807.2	1655.2	1503.2	1218.3	889.2	612.1	387.2	203.8	145.2	86.7	76.1
115°	1549.6	1404.7	1259.8	1008.2	721.1	491.1	318.2	176.9	130.7	84.4	73.7
117.5°	1267.9	1145.9	1024.0	822.1	593.4	407.8	265.2	149.7	115.8	81.8	71.1
120°	968.5	880.1	791.7	646.7	482.9	341.8	223.5	128.4	103.3	78.2	68.1
122.5°	732.5	679.3	626.0	523.9	405.5	295.8	194.7	113.8	93.6	73.4	64.7
125°	580.3	550.8	521.2	442.3	346.9	256.1	170.0	101.4	85.2	69.1	61.7
127.5°	476.8	458.1	439.4	375.3	296.0	219.9	146.9	89.1	77.1	65.0	59.0
130°	394.1	382.0	369.9	314.1	243.7	179.7	122.1	76.9	69.0	61.2	56.5
132.5°	331.4	323.6	315.7	264.9	199.8	145.0	100.6	66.3	61.9	57.6	54.3
135°	282.5	273.3	264.1	219.4	162.9	117.8	84.2	58.5	56.5	54.5	52.4
137.5°	229.2	219.1	209.0	174.0	130.7	96.6	71.6	52.7	52.2	51.7	50.6
140°	179.1	171.0	162.9	136.4	103.8	78.8	61.4	48.4	48.7	48.9	48.6
142.5°	132.8	128.8	124.7	105.5	81.2	64.1	54.3	46.8	46.3	45.9	46.4
145°	97.2	94.4	91.6	79.4	64.1	54.4	50.2	46.5	44.6	42.7	44.5
147.5°	77.1	74.9	72.6	64.0	53.3	47.7	47.4	46.4	43.9	41.3	43.9
150°	63.5	61.3	59.1	53.0	45.7	43.2	45.5	46.7	44.3	41.8	44.3
152.5°	53.7	52.0	50.3	47.3	43.8	42.7	43.9	44.6	43.5	42.3	44.7
155°	46.1	44.4	42.8	42.4	42.4	42.5	42.7	42.8	42.8	42.8	45.1
157.5°	40.7	40.8	41.0	42.8	45.3	45.6	43.9	42.8	43.1	43.4	45.5
160°	42.0	42.5	43.0	44.5	46.3	46.3	44.5	43.2	43.5	43.9	45.9
162.5°	47.9	47.6	47.4	47.2	47.0	46.1	44.7	43.6	44.0	44.3	46.2
165°	49.3	48.7	48.0	46.6	45.1	44.2	44.1	44.1	44.4	44.8	46.5
167.5°	48.1	47.1	46.2	45.3	44.5	44.2	44.3	44.5	44.8	45.2	46.7
170°	45.2	45.0	44.7	44.7	44.8	44.9	45.0	45.1	45.3	45.5	46.9
172.5°	46.1	45.9	45.6	45.6	45.6	45.6	45.6	45.6	45.7	45.8	47.0
175°	47.1	46.9	46.6	46.5	46.5	46.4	46.3	46.1	46.1	46.1	47.1
177.5°	48.2	47.9	47.7	47.5	47.4	47.2	46.8	46.6	46.5	46.4	47.2
180°	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1



REPORT NUMBER: P511372

CATALOG NUMBER: WPMLED25S-100W_SWITCH-4000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	3149.4	3149.4	3149.4	3149.4	3149.4	3149.4	3149.4	3149.4
2.5°	3016.0	2991.0	2972.4	2952.2	2930.6	2917.6	2930.6	2943.6
5°	2989.3	2911.7	2828.8	2754.3	2688.0	2635.7	2625.2	2614.7
7.5°	2854.2	2725.3	2595.8	2489.5	2406.3	2335.9	2303.4	2270.9
10°	2722.1	2549.2	2372.8	2220.8	2093.2	1985.9	1939.6	1893.4
12.5°	2589.2	2359.4	2129.9	1928.8	1756.3	1615.8	1571.7	1527.7
15°	2434.6	2148.6	1863.0	1626.4	1438.6	1285.1	1234.5	1184.0
17.5°	2282.9	1951.3	1620.4	1352.3	1146.8	975.6	907.0	838.3
20°	2104.3	1740.7	1382.5	1086.7	853.0	660.5	591.3	522.1
22.5°	1917.4	1524.1	1143.5	844.3	626.4	455.1	423.7	392.3
25°	1743.5	1321.6	920.1	645.3	497.0	382.4	368.3	354.3
27.5°	1566.4	1141.8	748.5	508.8	422.6	355.7	346.6	337.5
30°	1402.2	993.2	635.3	430.7	379.2	339.0	333.0	327.0
32.5°	1292.5	904.3	574.9	392.3	356.4	329.1	327.5	326.0
35°	1142.6	790.5	513.2	362.6	338.9	320.8	319.5	318.1
37.5°	998.3	684.0	461.1	340.1	321.1	305.7	301.1	296.6
40°	863.8	586.3	415.0	319.4	299.5	282.8	275.8	268.8
42.5°	759.9	511.1	377.5	299.2	276.3	257.1	249.3	241.4
45°	656.9	435.9	339.5	279.1	254.8	234.2	224.9	215.7
47.5°	591.0	390.5	310.3	257.7	232.4	211.4	202.8	194.3
50°	544.0	357.3	284.6	235.6	210.3	190.7	188.3	185.9
52.5°	505.0	330.4	260.8	213.8	189.5	172.4	176.5	180.6
55°	472.1	308.3	238.3	192.1	169.9	154.7	160.6	166.5
57.5°	440.1	287.2	216.8	171.7	152.0	137.8	140.3	142.8
60°	407.4	266.4	196.3	152.3	134.6	120.8	119.0	117.1
62.5°	372.2	245.1	176.3	133.5	116.6	102.8	98.3	93.8
65°	333.2	221.8	155.9	113.5	94.6	79.3	74.8	70.4
67.5°	294.0	197.2	135.5	92.1	67.1	47.0	41.4	35.9
70°	253.5	171.5	115.2	75.7	53.1	36.3	36.6	36.9
72.5°	215.8	147.5	96.5	63.5	48.5	37.3	37.7	38.1
75°	186.3	131.2	86.6	58.6	47.0	38.4	38.9	39.4
77.5°	160.1	116.6	78.8	55.4	46.3	39.6	40.1	40.6
80°	137.7	102.8	70.9	51.8	45.4	40.7	41.3	41.9
82.5°	120.7	92.1	65.1	49.4	45.0	41.8	42.5	43.2
85°	107.3	83.9	61.2	48.3	45.2	43.0	43.7	44.5
87.5°	97.6	78.5	58.6	47.6	45.5	44.2	45.0	45.8
90°	90.0	74.4	56.8	47.3	46.1	45.3	46.2	47.0
92.5°	85.1	71.6	55.7	47.4	46.7	46.4	47.3	48.3
95°	81.4	69.3	54.8	47.5	47.4	47.5	48.4	49.4
97.5°	78.4	67.3	54.1	47.7	48.0	48.5	49.5	50.5
100°	76.3	65.8	53.6	47.9	48.7	49.5	50.5	51.5
102.5°	74.1	64.1	53.1	48.2	49.3	50.4	51.5	52.5
105°	72.2	62.7	52.7	48.5	50.0	51.4	52.4	53.4
107.5°	69.9	61.1	52.5	49.1	50.8	52.3	53.4	54.4
110°	67.7	59.6	52.3	49.6	51.5	53.2	54.3	55.3



REPORT NUMBER: P511372
 CATALOG NUMBER: WPMLD25S-100W_SWITCH-4000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	65.5	58.2	52.1	50.1	52.2	54.1	55.1	56.2
115°	62.9	56.6	51.9	50.6	53.0	55.0	56.0	57.0
117.5°	60.4	55.1	51.7	51.2	53.7	55.8	56.8	57.8
120°	58.1	53.8	51.6	51.8	54.4	56.6	57.6	58.6
122.5°	56.0	52.9	51.6	52.3	55.0	57.3	58.3	59.2
125°	54.3	52.1	51.6	52.8	55.6	58.0	58.9	59.9
127.5°	53.0	51.6	51.8	53.3	56.2	58.5	59.4	60.4
130°	51.8	51.2	51.9	53.7	56.6	59.1	59.9	60.8
132.5°	51.0	51.0	52.2	54.2	57.1	59.5	60.3	61.2
135°	50.3	50.9	52.4	54.6	57.5	59.8	60.6	61.5
137.5°	49.4	50.6	52.6	55.0	57.7	60.0	60.8	61.7
140°	48.2	50.0	52.6	55.2	57.9	60.1	60.9	61.7
142.5°	46.8	49.3	52.5	55.4	57.9	60.0	60.9	61.7
145°	46.3	49.2	52.6	55.5	57.9	59.9	60.7	61.4
147.5°	46.4	49.5	52.7	55.5	57.7	59.6	60.3	61.0
150°	46.8	49.7	52.7	55.3	57.4	59.2	59.9	60.6
152.5°	47.1	49.8	52.7	55.1	57.1	58.7	59.3	59.9
155°	47.4	50.0	52.6	54.8	56.6	58.1	58.6	59.2
157.5°	47.6	50.0	52.5	54.5	56.1	57.4	57.9	58.3
160°	47.8	50.0	52.3	54.1	55.5	56.7	57.2	57.6
162.5°	48.0	50.0	52.0	53.7	54.9	56.0	56.3	56.7
165°	48.2	49.9	51.7	53.2	54.3	55.2	55.5	55.7
167.5°	48.2	49.8	51.4	52.6	53.6	54.3	54.5	54.7
170°	48.3	49.6	51.0	52.1	52.9	53.5	53.6	53.7
172.5°	48.3	49.4	50.6	51.5	52.1	52.6	52.6	52.6
175°	48.2	49.2	50.2	50.9	51.4	51.7	51.7	51.6
177.5°	48.1	48.9	49.7	50.3	50.6	50.8	50.6	50.4
180°	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1

(END OF REPORT)