

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: P511373

Luminaire Tested: **WPMLED25S-100W_SWITCH-5000K**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511373
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-100W_SWITCH-5000K
Description: WALLPACK SELECTABLE CCT
Light Source: (240) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12829 lumens
Efficiency: N/A
Efficacy: 127.5 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

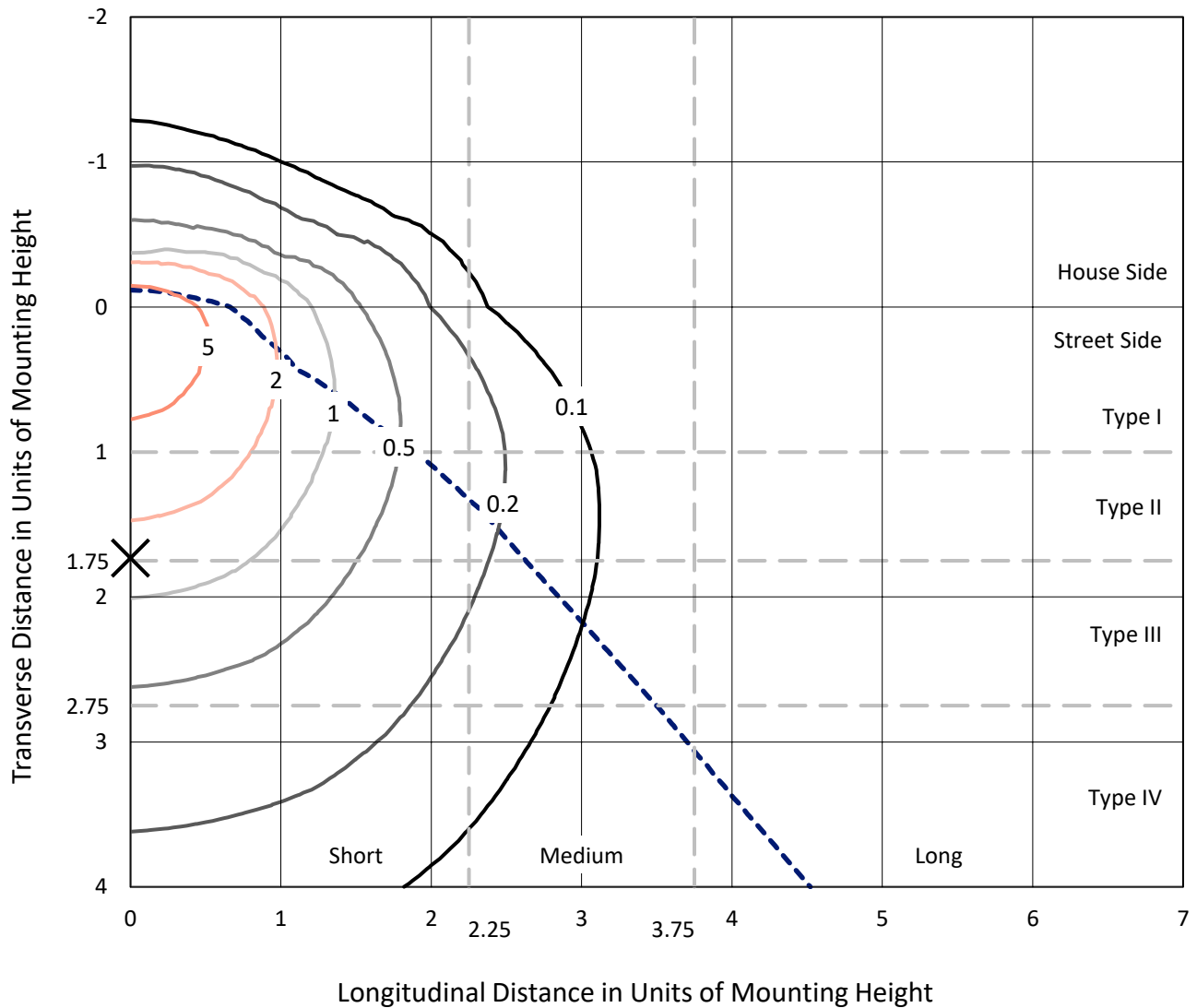
Input Watts (W): 100.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

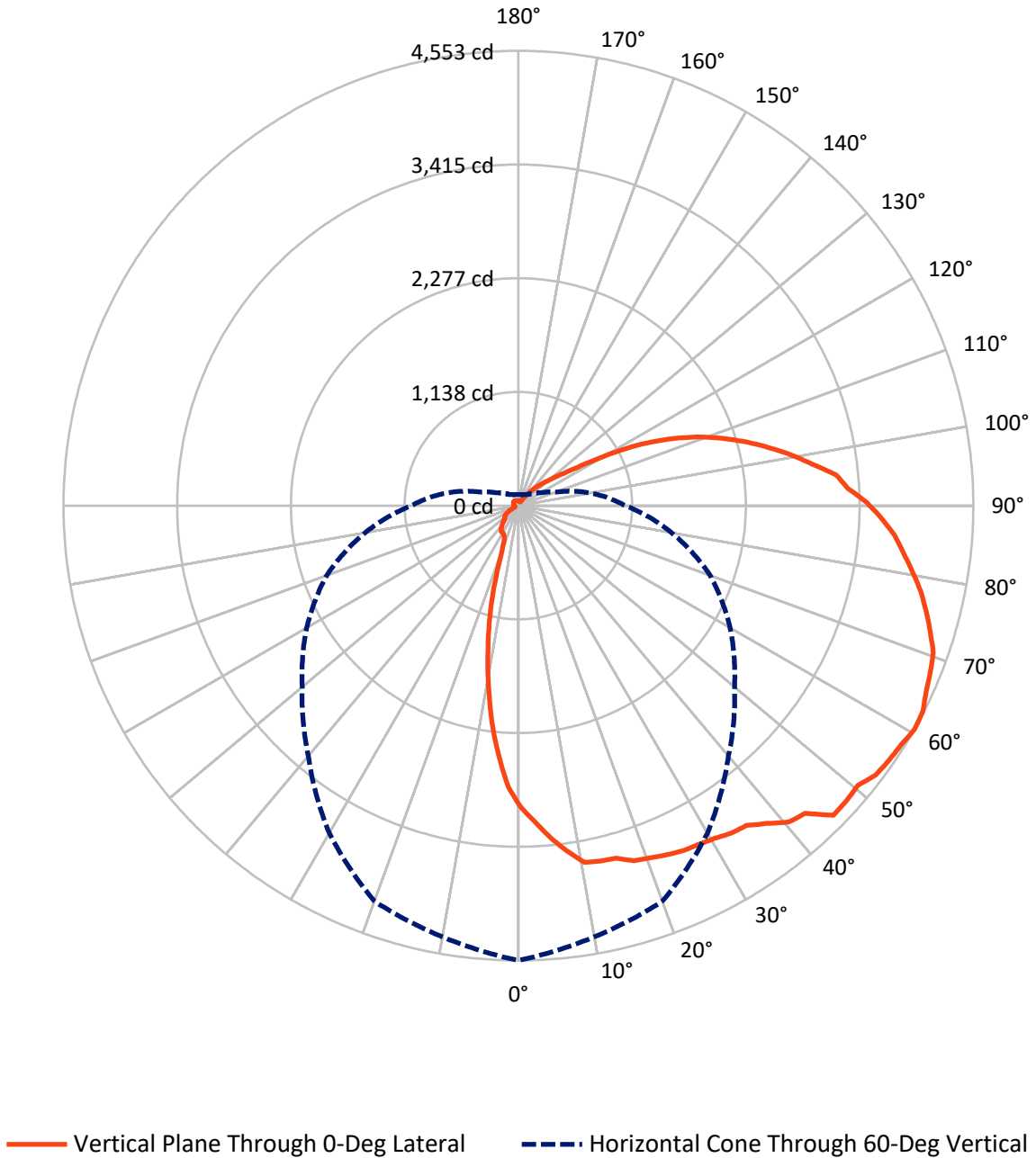
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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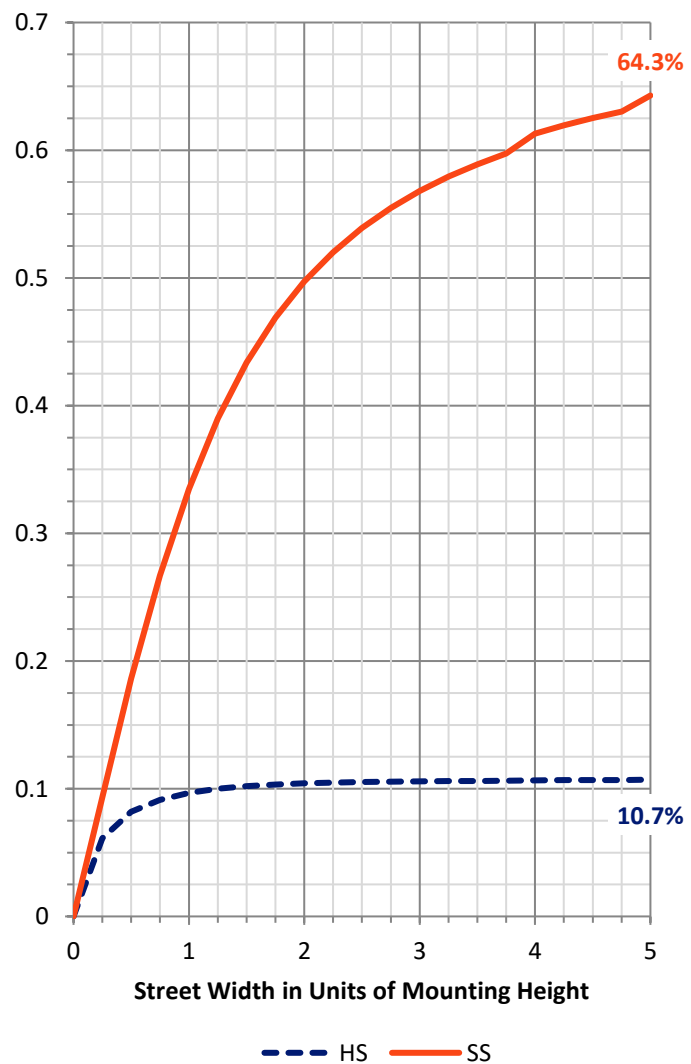
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1403.7	172.9	1576.6
	% Fixture	10.9	1.3	12.3
Street Side	Lumens	9115.0	2137.3	11252.4
	% Fixture	71.1	16.7	87.7
Total	Lumens	10518.8	2310.2	12829.0
	% Fixture	82.0	18.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.1	2.2
10°-20°	733.2	5.7
20°-30°	1023.9	8.0
30°-40°	1247.0	9.7
40°-50°	1426.6	11.1
50°-60°	1547.4	12.1
60°-70°	1575.0	12.3
70°-80°	1452.4	11.3
80°-90°	1235.2	9.6
90°-100°	960.7	7.5
100°-110°	662.1	5.2
110°-120°	367.4	2.9
120°-130°	163.5	1.3
130°-140°	79.7	0.6
140°-150°	37.6	0.3
150°-160°	21.7	0.2
160°-170°	13.2	0.1
170°-180°	4.4	0.0
0°-90°	10518.8	82.0
0°-180°	12829.0	100.0



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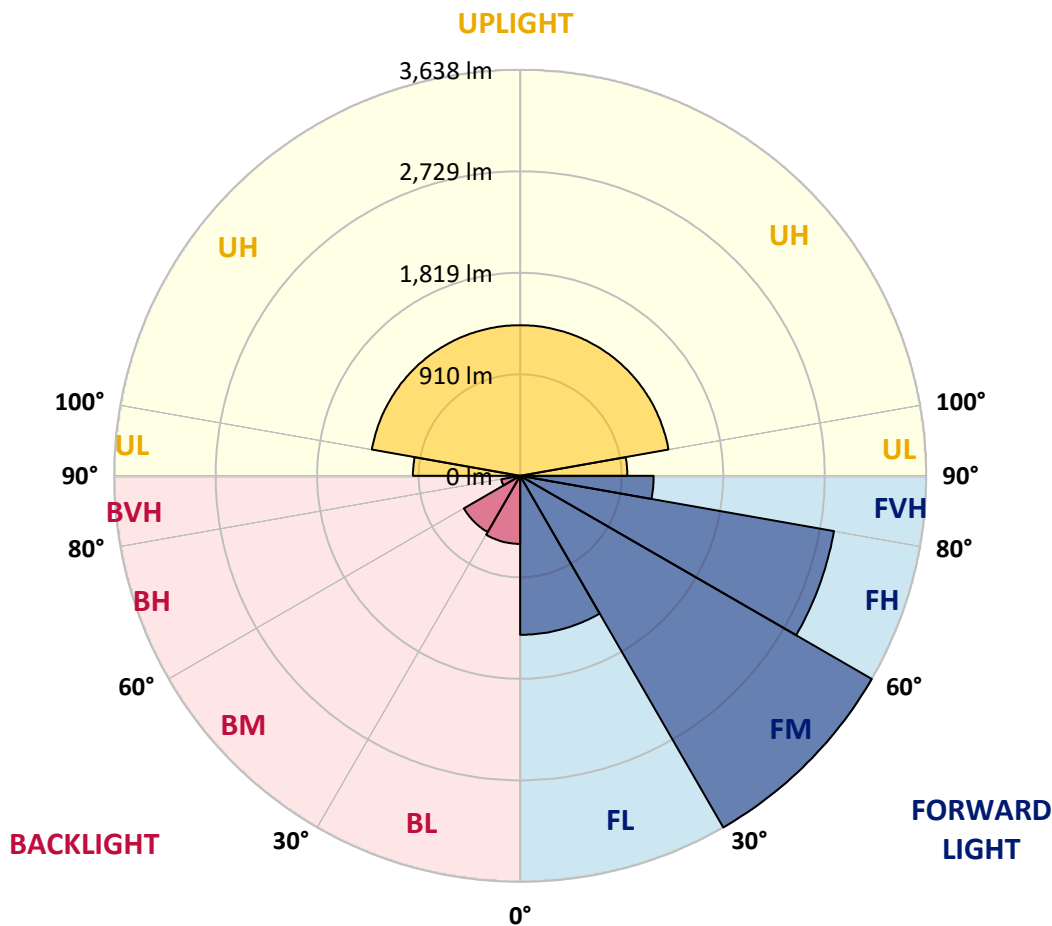
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1425.1	11.1			
FM (30°-60°)	3638.4	28.4			
FH (60°-80°)	2855.6	22.3			G2/5000
FVH (80°-90°)	1195.9	9.3			G5
BL (0°-30°)	610.2	4.8	B2/1000		
BM (30°-60°)	582.5	4.5	B1/1000		
BH (60°-80°)	171.8	1.3	B1/500		G1/500
BVH (80°-90°)	39.3	0.3			G1/100
UL (90°-100°)	960.7	7.5		U4/1000	
UH (100°-180°)	1349.5	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°	3020.6	3020.6	3020.6	3020.6	3020.6	3020.6	3020.6	3020.6	3020.6	3020.6	3020.6
2.5°	3170.2	3158.2	3146.1	3141.8	3140.0	3130.9	3114.3	3087.9	3032.4	2976.8	2934.7
5°	3337.6	3323.9	3310.2	3296.3	3282.5	3242.4	3176.0	3110.5	3048.1	2985.7	2926.4
7.5°	3491.3	3472.5	3453.7	3405.0	3346.4	3296.8	3256.2	3198.6	3090.0	2981.5	2859.5
10°	3631.6	3612.3	3592.9	3556.3	3514.0	3436.4	3323.5	3203.7	3063.4	2923.1	2767.0
12.5°	3651.2	3615.7	3580.1	3571.4	3571.6	3508.0	3380.6	3245.1	3085.2	2925.4	2704.3
15°	3662.0	3609.4	3556.8	3527.7	3506.4	3453.4	3368.7	3258.6	3072.6	2886.6	2610.8
17.5°	3738.4	3666.8	3595.2	3560.9	3538.9	3484.3	3396.9	3275.6	3052.5	2829.4	2509.5
20°	3764.0	3723.2	3682.3	3620.6	3551.9	3469.6	3373.6	3240.0	2993.7	2747.4	2382.8
22.5°	3797.6	3747.4	3697.1	3622.8	3540.5	3448.8	3347.8	3204.9	2936.2	2667.4	2253.2
25°	3826.4	3787.5	3748.6	3654.2	3541.3	3423.4	3300.6	3140.8	2869.8	2598.9	2135.6
27.5°	3842.0	3801.5	3761.1	3640.7	3493.6	3353.2	3219.6	3050.3	2774.0	2497.7	2000.0
30°	3867.0	3811.5	3756.0	3611.8	3438.1	3283.8	3148.9	2978.3	2700.8	2423.3	1884.1
32.5°	3909.5	3839.1	3768.6	3608.4	3418.2	3238.4	3069.1	2873.4	2598.2	2323.1	1781.3
35°	3933.1	3858.4	3783.8	3614.0	3412.6	3218.0	3030.3	2813.1	2507.4	2201.7	1648.8
37.5°	4037.8	3930.0	3822.3	3612.3	3368.2	3135.7	2914.7	2675.3	2380.6	2085.9	1521.7
40°	4165.6	4035.5	3905.4	3646.8	3345.2	3074.4	2834.4	2578.4	2274.7	1971.1	1399.8
42.5°	4211.4	4096.2	3981.1	3699.2	3361.7	3047.4	2756.5	2463.9	2166.0	1868.0	1298.4
45°	4420.9	4249.7	4078.4	3753.8	3378.0	3035.6	2726.7	2414.5	2092.8	1771.0	1200.5
47.5°	4416.2	4262.8	4109.4	3776.9	3384.7	3018.1	2677.4	2335.3	1989.4	1643.5	1105.2
50°	4403.8	4267.4	4130.9	3787.1	3374.1	2977.0	2595.7	2223.7	1879.6	1535.6	1028.7
52.5°	4478.4	4306.6	4134.9	3778.4	3360.4	2963.4	2587.4	2207.4	1815.6	1423.7	954.1
55°	4500.8	4331.2	4161.7	3781.1	3330.1	2917.5	2543.4	2156.4	1731.1	1305.9	879.3
57.5°	4516.7	4352.6	4188.5	3777.5	3284.2	2857.8	2498.3	2113.2	1651.4	1189.7	805.9
60°	4553.4	4383.9	4214.3	3785.7	3270.6	2824.3	2446.6	2041.7	1555.1	1068.6	729.7
62.5°	4541.8	4389.7	4237.6	3805.7	3280.5	2814.6	2408.1	1973.5	1455.1	936.7	646.8
65°	4484.7	4347.5	4210.2	3781.0	3254.5	2787.3	2379.5	1931.6	1363.2	794.8	557.2
67.5°	4447.0	4314.5	4181.9	3732.4	3177.1	2700.4	2302.1	1855.1	1262.1	669.0	475.5
70°	4404.4	4261.5	4118.6	3663.2	3103.7	2626.1	2230.2	1779.4	1163.5	547.6	395.3
72.5°	4309.4	4184.3	4059.3	3597.8	3024.3	2532.8	2123.3	1663.1	1050.5	438.0	322.5
75°	4215.2	4082.4	3949.5	3495.6	2934.8	2444.8	2025.7	1559.6	952.1	344.7	261.7
77.5°	4115.3	3980.8	3846.3	3397.9	2844.9	2349.5	1911.8	1437.6	853.9	270.1	211.8
80°	3999.2	3857.3	3715.5	3270.7	2725.0	2230.2	1786.1	1315.7	766.2	216.7	174.4
82.5°	3881.9	3736.4	3590.8	3149.2	2608.9	2110.8	1654.8	1186.9	683.3	179.7	147.8
85°	3775.8	3634.4	3492.9	3047.8	2501.4	1992.5	1521.1	1054.6	603.2	151.8	127.3
87.5°	3635.6	3485.9	3336.1	2899.8	2367.9	1864.4	1389.2	932.0	528.7	125.5	109.6
90°	3487.2	3336.4	3185.7	2758.5	2239.2	1741.7	1266.2	820.2	462.5	104.7	95.5
92.5°	3301.9	3158.0	3014.1	2602.9	2102.7	1612.8	1133.4	698.3	396.0	93.7	87.6
95°	3195.3	3026.9	2858.6	2448.5	1957.9	1478.1	1008.9	593.8	340.7	87.7	82.9
97.5°	2971.7	2826.0	2680.3	2287.9	1813.2	1348.9	894.9	502.3	293.4	84.5	79.8
100°	2779.9	2627.0	2474.1	2102.0	1656.9	1219.7	790.2	425.4	254.7	84.0	78.6
102.5°	2576.9	2433.7	2290.5	1936.4	1512.0	1098.2	695.2	358.7	221.6	84.5	77.8
105°	2377.7	2232.5	2087.3	1751.6	1352.5	969.7	603.2	301.3	193.2	85.1	77.2
107.5°	2170.3	2030.0	1889.6	1572.6	1196.6	846.2	521.4	256.3	170.8	85.2	76.1
110°	1961.9	1816.1	1670.3	1372.1	1023.0	712.9	441.8	221.3	153.0	84.7	74.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	1733.3	1587.5	1441.7	1168.5	852.8	587.1	371.3	195.5	139.3	83.1	73.0
115°	1486.3	1347.3	1208.3	967.0	691.6	471.0	305.2	169.7	125.3	81.0	70.7
117.5°	1216.0	1099.1	982.1	788.4	569.2	391.1	254.3	143.6	111.0	78.5	68.2
120°	928.9	844.1	759.3	620.2	463.1	327.8	214.3	123.2	99.1	75.0	65.3
122.5°	702.6	651.5	600.4	502.5	389.0	283.7	186.7	109.1	89.8	70.4	62.1
125°	556.6	528.2	499.9	424.2	332.7	245.7	163.1	97.2	81.7	66.3	59.2
127.5°	457.3	439.4	421.5	360.0	283.9	210.9	140.9	85.5	73.9	62.3	56.6
130°	378.0	366.4	354.8	301.3	233.7	172.3	117.1	73.7	66.2	58.7	54.2
132.5°	317.9	310.4	302.8	254.1	191.6	139.1	96.5	63.5	59.4	55.3	52.1
135°	270.9	262.1	253.3	210.5	156.2	113.0	80.8	56.1	54.2	52.3	50.3
137.5°	219.9	210.1	200.4	166.9	125.3	92.6	68.6	50.6	50.1	49.6	48.5
140°	171.8	164.0	156.2	130.8	99.5	75.6	58.9	46.5	46.7	46.9	46.6
142.5°	127.4	123.5	119.6	101.2	77.9	61.5	52.0	44.8	44.4	44.0	44.5
145°	93.2	90.5	87.8	76.2	61.5	52.1	48.1	44.6	42.8	41.0	42.7
147.5°	74.0	71.8	69.7	61.4	51.1	45.8	45.4	44.5	42.1	39.6	42.1
150°	60.9	58.8	56.7	50.9	43.8	41.4	43.7	44.8	42.4	40.1	42.5
152.5°	51.5	49.9	48.2	45.3	42.0	40.9	42.1	42.8	41.7	40.6	42.9
155°	44.2	42.6	41.0	40.7	40.7	40.8	40.9	41.1	41.1	41.1	43.3
157.5°	39.0	39.2	39.3	41.1	43.4	43.8	42.1	41.0	41.3	41.6	43.6
160°	40.3	40.8	41.2	42.6	44.4	44.4	42.7	41.5	41.8	42.1	44.0
162.5°	45.9	45.7	45.4	45.2	45.1	44.3	42.8	41.9	42.2	42.5	44.3
165°	47.3	46.7	46.0	44.7	43.2	42.4	42.3	42.3	42.6	43.0	44.6
167.5°	46.1	45.2	44.3	43.5	42.7	42.3	42.5	42.7	43.0	43.3	44.8
170°	43.4	43.1	42.8	42.8	42.9	43.0	43.2	43.3	43.5	43.7	45.0
172.5°	44.3	44.0	43.7	43.7	43.7	43.7	43.8	43.8	43.9	43.9	45.1
175°	45.2	44.9	44.7	44.6	44.6	44.5	44.4	44.2	44.2	44.2	45.2
177.5°	46.2	46.0	45.7	45.6	45.5	45.3	44.9	44.7	44.6	44.5	45.3
180°	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	3020.6	3020.6	3020.6	3020.6	3020.6	3020.6	3020.6	3020.6
2.5°	2892.6	2868.7	2850.8	2831.5	2810.8	2798.3	2810.8	2823.2
5°	2867.1	2792.6	2713.2	2641.6	2578.1	2527.9	2517.8	2507.7
7.5°	2737.5	2613.8	2489.7	2387.7	2307.9	2240.3	2209.2	2178.1
10°	2610.8	2444.9	2275.8	2130.0	2007.6	1904.7	1860.3	1815.9
12.5°	2483.3	2262.9	2042.8	1850.0	1684.4	1549.7	1507.5	1465.2
15°	2335.0	2060.7	1786.9	1559.9	1379.8	1232.5	1184.0	1135.6
17.5°	2189.5	1871.5	1554.2	1297.0	1099.9	935.7	869.9	804.0
20°	2018.2	1669.5	1326.0	1042.2	818.1	633.5	567.1	500.7
22.5°	1839.0	1461.7	1096.8	809.8	600.8	436.5	406.4	376.2
25°	1672.2	1267.6	882.5	618.9	476.7	366.7	353.3	339.8
27.5°	1502.4	1095.1	717.9	488.0	405.3	341.2	332.4	323.7
30°	1344.8	952.6	609.4	413.1	363.7	325.2	319.4	313.6
32.5°	1239.6	867.3	551.4	376.3	341.8	315.6	314.2	312.7
35°	1095.9	758.2	492.2	347.8	325.1	307.7	306.4	305.1
37.5°	957.5	656.0	442.2	326.2	308.0	293.2	288.8	284.5
40°	828.4	562.4	398.0	306.3	287.3	271.3	264.5	257.8
42.5°	728.8	490.2	362.0	286.9	265.0	246.6	239.1	231.5
45°	630.0	418.0	325.6	267.7	244.3	224.6	215.7	206.9
47.5°	566.8	374.5	297.7	247.1	222.9	202.7	194.5	186.3
50°	521.8	342.7	272.9	225.9	201.7	182.9	180.6	178.3
52.5°	484.4	316.9	250.1	205.1	181.8	165.3	169.3	173.2
55°	452.8	295.7	228.5	184.3	163.0	148.4	154.0	159.7
57.5°	422.1	275.5	207.9	164.7	145.8	132.2	134.6	136.9
60°	390.7	255.5	188.3	146.1	129.1	115.9	114.1	112.3
62.5°	356.9	235.0	169.1	128.0	111.8	98.6	94.3	90.0
65°	319.6	212.8	149.6	108.9	90.7	76.0	71.7	67.5
67.5°	282.0	189.2	129.9	88.3	64.4	45.1	39.8	34.4
70°	243.1	164.5	110.5	72.6	51.0	34.8	35.1	35.4
72.5°	207.0	141.4	92.5	60.9	46.5	35.8	36.2	36.6
75°	178.6	125.8	83.1	56.2	45.1	36.9	37.3	37.7
77.5°	153.5	111.8	75.6	53.1	44.4	37.9	38.5	39.0
80°	132.1	98.6	68.0	49.7	43.5	39.0	39.6	40.2
82.5°	115.8	88.4	62.5	47.4	43.1	40.1	40.8	41.4
85°	102.9	80.5	58.7	46.3	43.3	41.2	41.9	42.6
87.5°	93.7	75.3	56.2	45.7	43.7	42.4	43.1	43.9
90°	86.3	71.3	54.5	45.4	44.2	43.5	44.3	45.1
92.5°	81.6	68.7	53.4	45.5	44.8	44.5	45.4	46.3
95°	78.1	66.5	52.6	45.6	45.4	45.6	46.5	47.4
97.5°	75.2	64.6	51.9	45.7	46.0	46.5	47.5	48.4
100°	73.2	63.1	51.4	45.9	46.7	47.5	48.4	49.4
102.5°	71.1	61.5	51.0	46.2	47.3	48.4	49.4	50.3
105°	69.2	60.1	50.6	46.5	48.0	49.3	50.3	51.3
107.5°	67.1	58.6	50.4	47.1	48.7	50.2	51.2	52.2
110°	64.9	57.2	50.2	47.6	49.4	51.0	52.0	53.1



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 CATALOG NUMBER: WPMLD25S-100W_SWITCH-5000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	62.8	55.9	50.0	48.1	50.1	51.9	52.9	53.9
115°	60.3	54.3	49.7	48.6	50.8	52.7	53.7	54.7
117.5°	57.9	52.9	49.6	49.1	51.5	53.5	54.5	55.5
120°	55.7	51.6	49.5	49.6	52.1	54.2	55.2	56.2
122.5°	53.7	50.7	49.4	50.1	52.8	55.0	55.9	56.8
125°	52.1	50.0	49.5	50.7	53.4	55.6	56.5	57.4
127.5°	50.8	49.5	49.7	51.1	53.9	56.1	57.0	57.9
130°	49.7	49.1	49.8	51.5	54.3	56.6	57.5	58.3
132.5°	48.9	48.9	50.0	52.0	54.8	57.1	57.9	58.7
135°	48.2	48.8	50.3	52.4	55.1	57.4	58.2	59.0
137.5°	47.4	48.5	50.5	52.7	55.4	57.5	58.3	59.1
140°	46.2	48.0	50.5	53.0	55.5	57.6	58.4	59.2
142.5°	44.9	47.3	50.4	53.1	55.6	57.6	58.4	59.1
145°	44.4	47.2	50.4	53.2	55.5	57.4	58.2	58.9
147.5°	44.5	47.5	50.6	53.2	55.3	57.1	57.8	58.5
150°	44.9	47.7	50.6	53.1	55.1	56.8	57.4	58.1
152.5°	45.2	47.8	50.6	52.9	54.7	56.3	56.9	57.5
155°	45.4	47.9	50.5	52.6	54.3	55.7	56.2	56.8
157.5°	45.7	48.0	50.3	52.3	53.8	55.0	55.5	56.0
160°	45.9	48.0	50.1	51.9	53.3	54.4	54.8	55.2
162.5°	46.1	48.0	49.9	51.5	52.7	53.7	54.0	54.4
165°	46.2	47.9	49.6	51.0	52.1	53.0	53.2	53.5
167.5°	46.2	47.8	49.3	50.5	51.4	52.1	52.3	52.5
170°	46.3	47.6	48.9	50.0	50.7	51.3	51.4	51.5
172.5°	46.3	47.4	48.5	49.4	50.0	50.4	50.4	50.4
175°	46.2	47.2	48.1	48.8	49.3	49.6	49.5	49.5
177.5°	46.1	46.9	47.7	48.2	48.5	48.8	48.6	48.4
180°	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2

(END OF REPORT)