

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: P511370

Luminaire Tested: **WPMLED15S-60W_SWITCH-5000K**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511370
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: WPMLED15S-60W_SWITCH-5000K
Description: WALLPACK SELECTABLE CCT
Light Source: (240) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7535 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.13m x L: 0.26m x H: 0.9m)
IES Classification: Type IV - Short
BUG Rating: B1 - U4 - G4

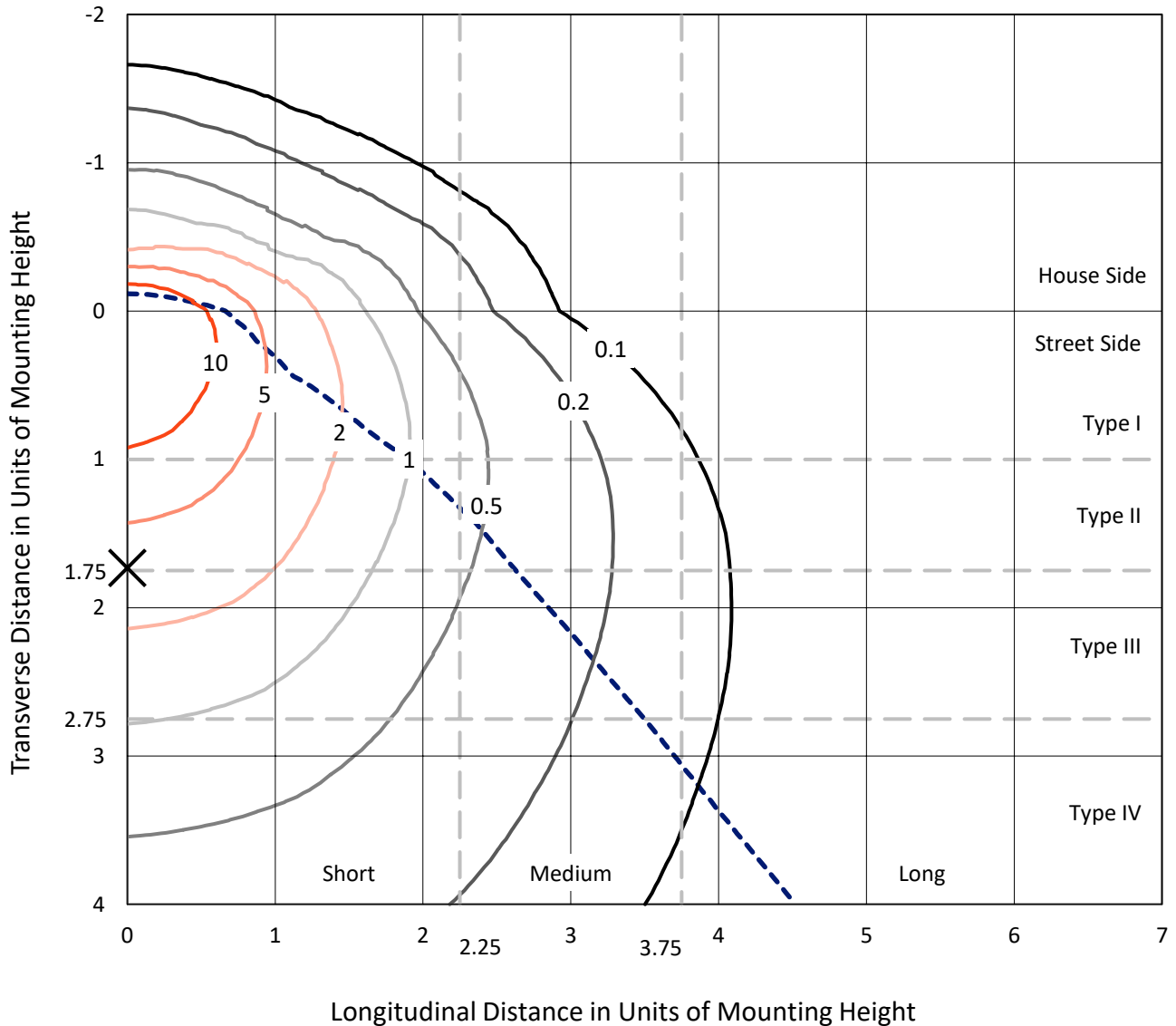
Input Watts (W): 59.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

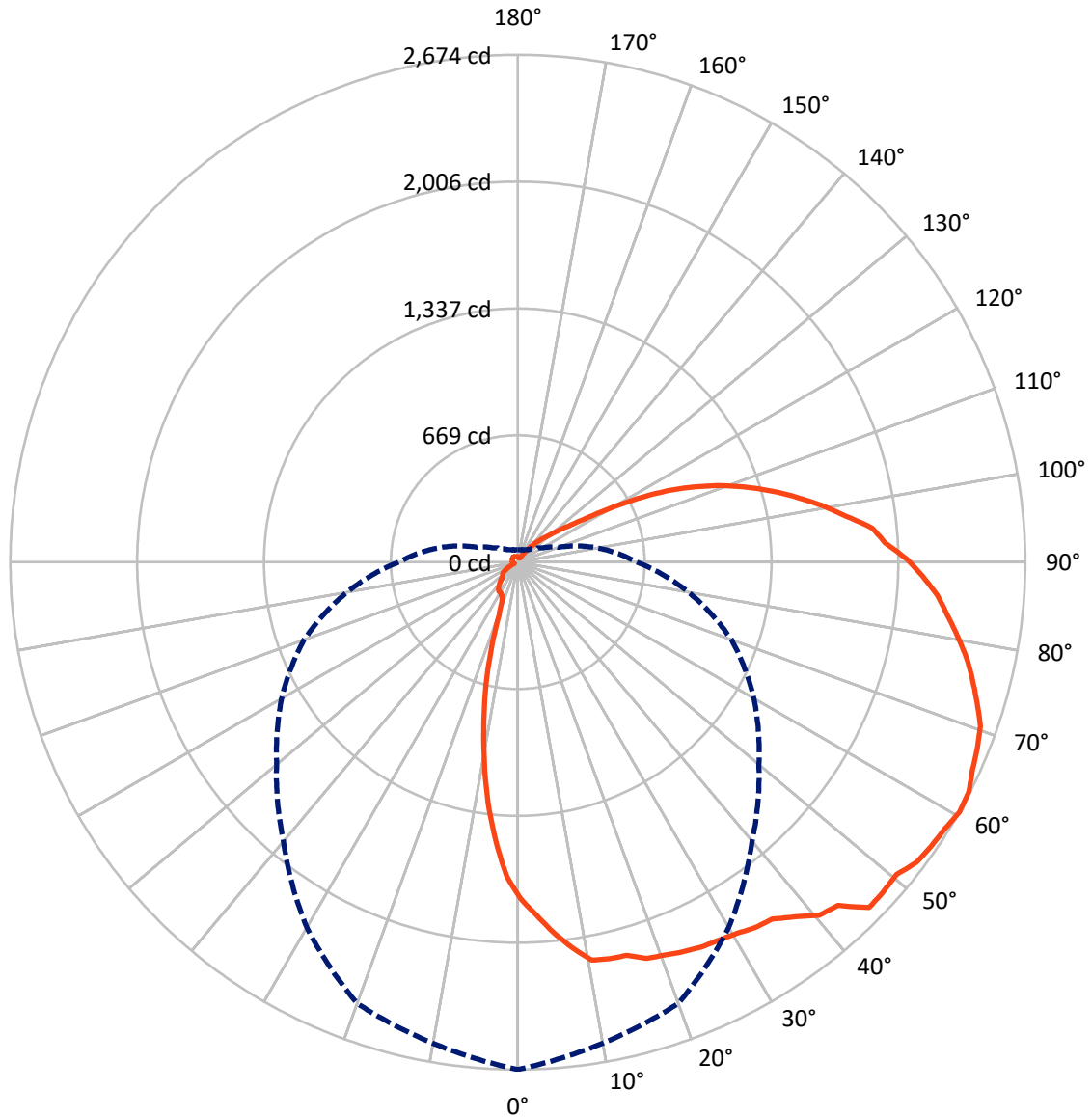
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical



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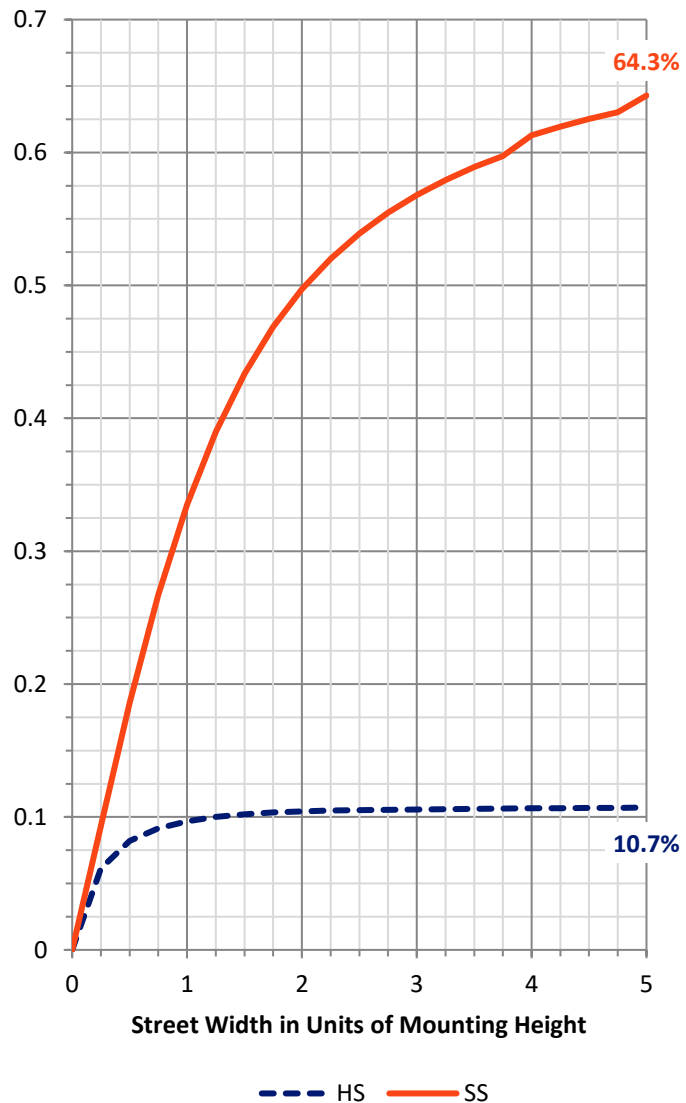
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	824.5	101.5	926.0
	% Fixture	10.9	1.3	12.3
Street Side	Lumens	5353.6	1255.3	6609.0
	% Fixture	71.1	16.7	87.7
Total	Lumens	6178.1	1356.9	7535.0
	% Fixture	82.0	18.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.4	2.2
10°-20°	430.7	5.7
20°-30°	601.4	8.0
30°-40°	732.4	9.7
40°-50°	837.9	11.1
50°-60°	908.8	12.1
60°-70°	925.1	12.3
70°-80°	853.1	11.3
80°-90°	725.5	9.6
90°-100°	564.3	7.5
100°-110°	388.9	5.2
110°-120°	215.8	2.9
120°-130°	96.0	1.3
130°-140°	46.8	0.6
140°-150°	22.1	0.3
150°-160°	12.7	0.2
160°-170°	7.7	0.1
170°-180°	2.6	0.0
0°-90°	6178.1	82.0
0°-180°	7535.0	100.0

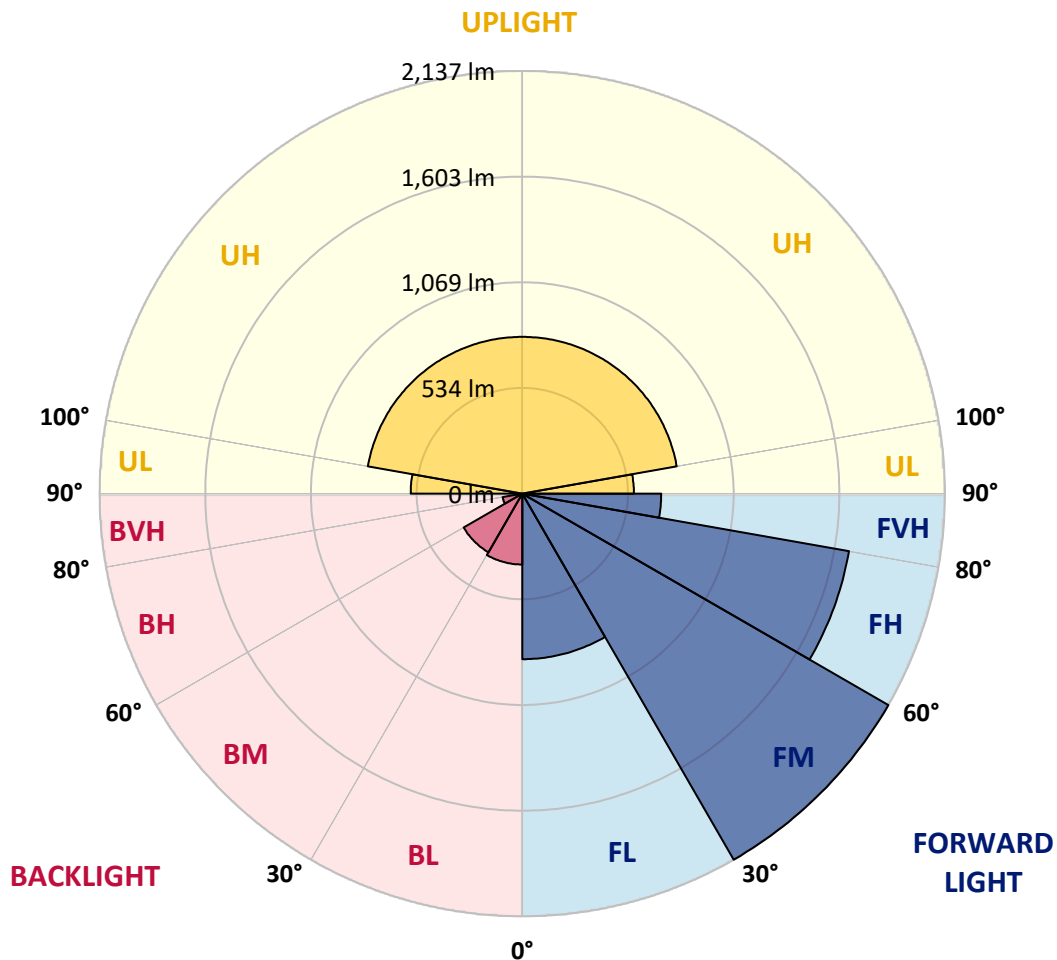


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	837.0	11.1			
FM (30°-60°)	2137.0	28.4			
FH (60°-80°)	1677.2	22.3			G1/1800
FVH (80°-90°)	702.4	9.3			G4/750
BL (0°-30°)	358.4	4.8	B1/500		
BM (30°-60°)	342.1	4.5	B1/1000		
BH (60°-80°)	100.9	1.3	B0/110		G0/110
BVH (80°-90°)	23.1	0.3			G1/100
UL (90°-100°)	564.3	7.5		U4/1000	
UH (100°-180°)	792.6	10.5		U4/1000	

BUG Rating: B1-U4-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1774.1	1774.1	1774.1	1774.1	1774.1	1774.1	1774.1	1774.1	1774.1	1774.1	1774.1
2.5°	1862.0	1854.9	1847.8	1845.3	1844.3	1838.9	1829.1	1813.7	1781.1	1748.4	1723.7
5°	1960.3	1952.3	1944.2	1936.1	1927.9	1904.4	1865.4	1827.0	1790.3	1753.6	1718.8
7.5°	2050.6	2039.5	2028.5	1999.9	1965.5	1936.4	1912.5	1878.7	1814.9	1751.1	1679.5
10°	2133.0	2121.6	2110.3	2088.8	2063.9	2018.4	1952.0	1881.7	1799.3	1716.9	1625.2
12.5°	2144.5	2123.6	2102.8	2097.6	2097.8	2060.4	1985.6	1906.0	1812.1	1718.2	1588.4
15°	2150.8	2119.9	2089.1	2072.0	2059.5	2028.3	1978.6	1913.9	1804.7	1695.4	1533.4
17.5°	2195.7	2153.7	2111.6	2091.5	2078.6	2046.5	1995.1	1923.9	1792.9	1661.8	1473.9
20°	2210.8	2186.8	2162.8	2126.5	2086.2	2037.8	1981.4	1903.0	1758.3	1613.6	1399.5
22.5°	2230.5	2201.0	2171.5	2127.8	2079.5	2025.6	1966.3	1882.3	1724.5	1566.7	1323.4
25°	2247.4	2224.6	2201.7	2146.3	2080.0	2010.7	1938.6	1844.7	1685.6	1526.4	1254.3
27.5°	2256.5	2232.8	2209.1	2138.3	2051.9	1969.5	1891.0	1791.5	1629.3	1467.0	1174.7
30°	2271.2	2238.6	2206.0	2121.4	2019.4	1928.7	1849.5	1749.3	1586.3	1423.3	1106.6
32.5°	2296.2	2254.9	2213.5	2119.3	2007.6	1902.0	1802.6	1687.6	1526.0	1364.4	1046.3
35°	2310.1	2266.2	2222.4	2122.7	2004.4	1890.1	1779.8	1652.3	1472.7	1293.1	968.4
37.5°	2371.6	2308.3	2245.0	2121.6	1978.3	1841.7	1711.9	1571.3	1398.2	1225.1	893.8
40°	2446.6	2370.2	2293.8	2141.9	1964.8	1805.7	1664.8	1514.4	1336.1	1157.7	822.1
42.5°	2473.5	2405.9	2338.3	2172.7	1974.4	1789.9	1619.0	1447.1	1272.2	1097.2	762.6
45°	2596.6	2496.0	2395.4	2204.7	1984.0	1782.9	1601.5	1418.2	1229.2	1040.2	705.1
47.5°	2593.8	2503.7	2413.6	2218.3	1988.0	1772.7	1572.5	1371.6	1168.5	965.3	649.1
50°	2586.6	2506.4	2426.2	2224.3	1981.8	1748.5	1524.5	1306.0	1104.0	901.9	604.2
52.5°	2630.3	2529.5	2428.6	2219.2	1973.7	1740.5	1519.7	1296.5	1066.4	836.2	560.4
55°	2643.5	2543.9	2444.3	2220.8	1955.9	1713.6	1493.8	1266.6	1016.8	767.0	516.5
57.5°	2652.9	2556.5	2460.1	2218.7	1929.0	1678.5	1467.3	1241.1	969.9	698.7	473.3
60°	2674.4	2574.8	2475.2	2223.5	1921.0	1658.8	1437.0	1199.2	913.4	627.6	428.6
62.5°	2667.6	2578.2	2488.9	2235.2	1926.8	1653.1	1414.3	1159.1	854.6	550.1	379.9
65°	2634.1	2553.4	2472.8	2220.7	1911.5	1637.1	1397.6	1134.5	800.7	466.8	327.2
67.5°	2611.9	2534.1	2456.2	2192.2	1866.1	1586.0	1352.1	1089.6	741.3	392.9	279.3
70°	2586.9	2502.9	2419.0	2151.6	1822.9	1542.4	1309.9	1045.1	683.4	321.6	232.2
72.5°	2531.1	2457.6	2384.2	2113.2	1776.3	1487.6	1247.1	976.8	617.0	257.3	189.4
75°	2475.8	2397.7	2319.7	2053.1	1723.7	1435.9	1189.8	916.0	559.2	202.5	153.7
77.5°	2417.1	2338.1	2259.1	1995.7	1670.9	1380.0	1122.9	844.4	501.5	158.6	124.4
80°	2348.9	2265.6	2182.3	1921.0	1600.5	1309.9	1049.0	772.8	450.0	127.3	102.4
82.5°	2280.0	2194.5	2109.0	1849.6	1532.3	1239.8	971.9	697.1	401.3	105.6	86.8
85°	2217.7	2134.6	2051.5	1790.1	1469.2	1170.3	893.4	619.4	354.3	89.2	74.8
87.5°	2135.4	2047.4	1959.5	1703.2	1390.8	1095.0	815.9	547.4	310.5	73.7	64.4
90°	2048.2	1959.6	1871.1	1620.2	1315.2	1023.0	743.7	481.7	271.6	61.5	56.1
92.5°	1939.3	1854.8	1770.3	1528.8	1235.0	947.3	665.7	410.1	232.6	55.0	51.5
95°	1876.7	1777.8	1679.0	1438.1	1150.0	868.1	592.6	348.8	200.1	51.5	48.7
97.5°	1745.4	1659.8	1574.3	1343.8	1064.9	792.2	525.6	295.0	172.3	49.6	46.9
100°	1632.8	1542.9	1453.1	1234.6	973.2	716.4	464.1	249.9	149.6	49.3	46.1
102.5°	1513.5	1429.4	1345.3	1137.3	888.0	645.0	408.3	210.7	130.1	49.6	45.7
105°	1396.5	1311.2	1225.9	1028.8	794.4	569.5	354.3	177.0	113.5	50.0	45.3
107.5°	1274.7	1192.3	1109.9	923.7	702.8	497.0	306.2	150.6	100.3	50.0	44.7
110°	1152.3	1066.7	981.1	805.9	600.9	418.7	259.5	130.0	89.9	49.7	43.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	1018.0	932.4	846.8	686.3	500.9	344.8	218.1	114.8	81.8	48.8	42.8
115°	872.9	791.3	709.7	567.9	406.2	276.6	179.2	99.7	73.6	47.6	41.5
117.5°	714.2	645.5	576.8	463.1	334.3	229.7	149.4	84.3	65.2	46.1	40.0
120°	545.6	495.8	446.0	364.3	272.0	192.5	125.9	72.4	58.2	44.0	38.4
122.5°	412.6	382.7	352.7	295.1	228.5	166.6	109.7	64.1	52.7	41.3	36.5
125°	326.9	310.3	293.6	249.1	195.4	144.3	95.8	57.1	48.0	38.9	34.8
127.5°	268.6	258.1	247.5	211.4	166.7	123.9	82.7	50.2	43.4	36.6	33.2
130°	222.0	215.2	208.4	176.9	137.3	101.2	68.8	43.3	38.9	34.5	31.8
132.5°	186.7	182.3	177.9	149.2	112.5	81.7	56.7	37.3	34.9	32.5	30.6
135°	159.1	154.0	148.8	123.6	91.8	66.4	47.5	33.0	31.8	30.7	29.5
137.5°	129.1	123.4	117.7	98.0	73.6	54.4	40.3	29.7	29.4	29.1	28.5
140°	100.9	96.3	91.7	76.8	58.5	44.4	34.6	27.3	27.4	27.6	27.4
142.5°	74.8	72.5	70.3	59.4	45.7	36.1	30.6	26.3	26.1	25.9	26.1
145°	54.7	53.2	51.6	44.7	36.1	30.6	28.3	26.2	25.1	24.1	25.1
147.5°	43.4	42.2	40.9	36.1	30.0	26.9	26.7	26.2	24.7	23.3	24.7
150°	35.8	34.6	33.3	29.9	25.7	24.3	25.7	26.3	24.9	23.5	24.9
152.5°	30.3	29.3	28.3	26.6	24.7	24.0	24.7	25.1	24.5	23.8	25.2
155°	26.0	25.0	24.1	23.9	23.9	23.9	24.0	24.1	24.1	24.1	25.4
157.5°	22.9	23.0	23.1	24.1	25.5	25.7	24.8	24.1	24.3	24.4	25.6
160°	23.7	23.9	24.2	25.0	26.1	26.1	25.1	24.3	24.5	24.7	25.8
162.5°	27.0	26.8	26.7	26.6	26.5	26.0	25.2	24.6	24.8	25.0	26.0
165°	27.8	27.4	27.0	26.3	25.4	24.9	24.8	24.8	25.0	25.2	26.2
167.5°	27.1	26.5	26.0	25.5	25.1	24.9	25.0	25.1	25.3	25.4	26.3
170°	25.5	25.3	25.2	25.2	25.2	25.3	25.3	25.4	25.5	25.6	26.4
172.5°	26.0	25.8	25.7	25.7	25.7	25.7	25.7	25.7	25.8	25.8	26.5
175°	26.5	26.4	26.3	26.2	26.2	26.2	26.1	26.0	26.0	26.0	26.6
177.5°	27.1	27.0	26.9	26.8	26.7	26.6	26.4	26.2	26.2	26.1	26.6
180°	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	1774.1	1774.1	1774.1	1774.1	1774.1	1774.1	1774.1	1774.1
2.5°	1699.0	1684.9	1674.4	1663.1	1650.9	1643.6	1650.9	1658.2
5°	1684.0	1640.2	1593.5	1551.5	1514.2	1484.8	1478.8	1472.9
7.5°	1607.8	1535.2	1462.3	1402.4	1355.5	1315.8	1297.5	1279.3
10°	1533.4	1436.0	1336.7	1251.0	1179.1	1118.7	1092.6	1066.6
12.5°	1458.6	1329.1	1199.8	1086.6	989.3	910.2	885.4	860.6
15°	1371.5	1210.3	1049.5	916.2	810.4	723.9	695.4	667.0
17.5°	1286.0	1099.2	912.8	761.8	646.0	549.6	510.9	472.2
20°	1185.4	980.5	778.8	612.1	480.5	372.1	333.1	294.1
22.5°	1080.1	858.5	644.2	475.6	352.9	256.4	238.7	221.0
25°	982.2	744.5	518.3	363.5	280.0	215.4	207.5	199.6
27.5°	882.4	643.2	421.7	286.6	238.1	200.4	195.3	190.1
30°	789.9	559.5	357.9	242.6	213.6	191.0	187.6	184.2
32.5°	728.1	509.4	323.9	221.0	200.8	185.4	184.5	183.6
35°	643.6	445.3	289.1	204.3	190.9	180.7	180.0	179.2
37.5°	562.4	385.3	259.7	191.6	180.9	172.2	169.6	167.1
40°	486.6	330.3	233.8	179.9	168.7	159.3	155.4	151.4
42.5°	428.1	287.9	212.6	168.5	155.6	144.9	140.4	136.0
45°	370.0	245.5	191.2	157.2	143.5	131.9	126.7	121.5
47.5°	332.9	220.0	174.8	145.1	130.9	119.1	114.3	109.5
50°	306.5	201.3	160.3	132.7	118.4	107.4	106.1	104.7
52.5°	284.5	186.1	146.9	120.4	106.8	97.1	99.4	101.7
55°	265.9	173.7	134.2	108.2	95.7	87.2	90.5	93.8
57.5°	247.9	161.8	122.1	96.7	85.6	77.7	79.0	80.4
60°	229.5	150.1	110.6	85.8	75.8	68.1	67.0	66.0
62.5°	209.6	138.0	99.3	75.2	65.7	57.9	55.4	52.9
65°	187.7	125.0	87.8	63.9	53.3	44.6	42.1	39.6
67.5°	165.6	111.1	76.3	51.9	37.8	26.5	23.3	20.2
70°	142.8	96.6	64.9	42.7	29.9	20.4	20.6	20.8
72.5°	121.6	83.1	54.3	35.8	27.3	21.0	21.2	21.5
75°	104.9	73.9	48.8	33.0	26.5	21.6	21.9	22.2
77.5°	90.2	65.7	44.4	31.2	26.1	22.3	22.6	22.9
80°	77.6	57.9	40.0	29.2	25.6	22.9	23.3	23.6
82.5°	68.0	51.9	36.7	27.8	25.3	23.6	23.9	24.3
85°	60.4	47.3	34.5	27.2	25.4	24.2	24.6	25.0
87.5°	55.0	44.2	33.0	26.8	25.6	24.9	25.3	25.8
90°	50.7	41.9	32.0	26.7	26.0	25.5	26.0	26.5
92.5°	47.9	40.3	31.4	26.7	26.3	26.2	26.7	27.2
95°	45.8	39.0	30.9	26.8	26.7	26.8	27.3	27.8
97.5°	44.2	37.9	30.5	26.9	27.0	27.3	27.9	28.4
100°	43.0	37.0	30.2	27.0	27.4	27.9	28.4	29.0
102.5°	41.7	36.1	29.9	27.2	27.8	28.4	29.0	29.6
105°	40.7	35.3	29.7	27.3	28.2	28.9	29.5	30.1
107.5°	39.4	34.4	29.6	27.6	28.6	29.5	30.1	30.6
110°	38.1	33.6	29.5	27.9	29.0	30.0	30.6	31.2



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 CATALOG NUMBER: WPMLED15S-60W_SWITCH-5000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	36.9	32.8	29.4	28.2	29.4	30.5	31.1	31.7
115°	35.4	31.9	29.2	28.5	29.8	31.0	31.5	32.1
117.5°	34.0	31.0	29.1	28.8	30.2	31.4	32.0	32.6
120°	32.7	30.3	29.1	29.2	30.6	31.9	32.4	33.0
122.5°	31.6	29.8	29.0	29.4	31.0	32.3	32.8	33.4
125°	30.6	29.4	29.1	29.8	31.3	32.7	33.2	33.7
127.5°	29.8	29.1	29.2	30.0	31.6	33.0	33.5	34.0
130°	29.2	28.8	29.2	30.3	31.9	33.3	33.8	34.3
132.5°	28.7	28.7	29.4	30.5	32.2	33.5	34.0	34.5
135°	28.3	28.7	29.5	30.8	32.4	33.7	34.2	34.6
137.5°	27.8	28.5	29.6	31.0	32.5	33.8	34.3	34.7
140°	27.1	28.2	29.6	31.1	32.6	33.8	34.3	34.8
142.5°	26.4	27.8	29.6	31.2	32.6	33.8	34.3	34.7
145°	26.1	27.7	29.6	31.2	32.6	33.7	34.2	34.6
147.5°	26.2	27.9	29.7	31.2	32.5	33.5	34.0	34.4
150°	26.3	28.0	29.7	31.2	32.4	33.4	33.7	34.1
152.5°	26.5	28.1	29.7	31.1	32.1	33.1	33.4	33.8
155°	26.7	28.1	29.6	30.9	31.9	32.7	33.0	33.3
157.5°	26.8	28.2	29.6	30.7	31.6	32.3	32.6	32.9
160°	27.0	28.2	29.5	30.5	31.3	31.9	32.2	32.4
162.5°	27.0	28.2	29.3	30.2	31.0	31.5	31.7	31.9
165°	27.1	28.1	29.1	30.0	30.6	31.1	31.3	31.4
167.5°	27.2	28.1	28.9	29.7	30.2	30.6	30.7	30.8
170°	27.2	28.0	28.7	29.3	29.8	30.1	30.2	30.3
172.5°	27.2	27.9	28.5	29.0	29.4	29.6	29.6	29.6
175°	27.1	27.7	28.3	28.7	29.0	29.1	29.1	29.0
177.5°	27.1	27.5	28.0	28.3	28.5	28.6	28.5	28.4
180°	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0

(END OF REPORT)