

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: P511368

Luminaire Tested: **WPMLED15S-60W_SWITCH-3000K**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511368
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-3000K
Description: WALLPACK SELECTABLE CCT
Light Source: (240) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7360 lumens
Efficiency: N/A
Efficacy: 127.6 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

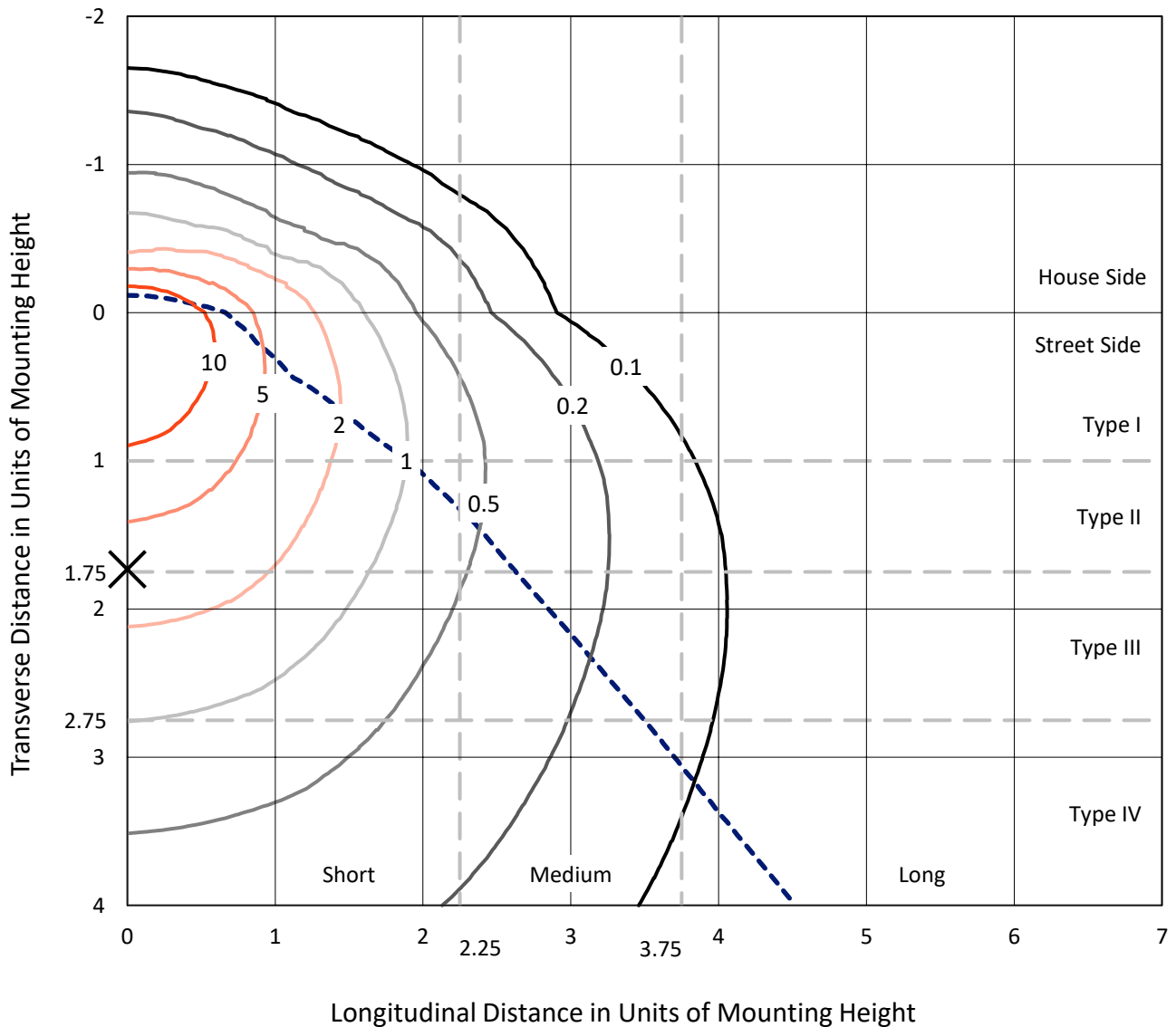
Input Watts (W): 57.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

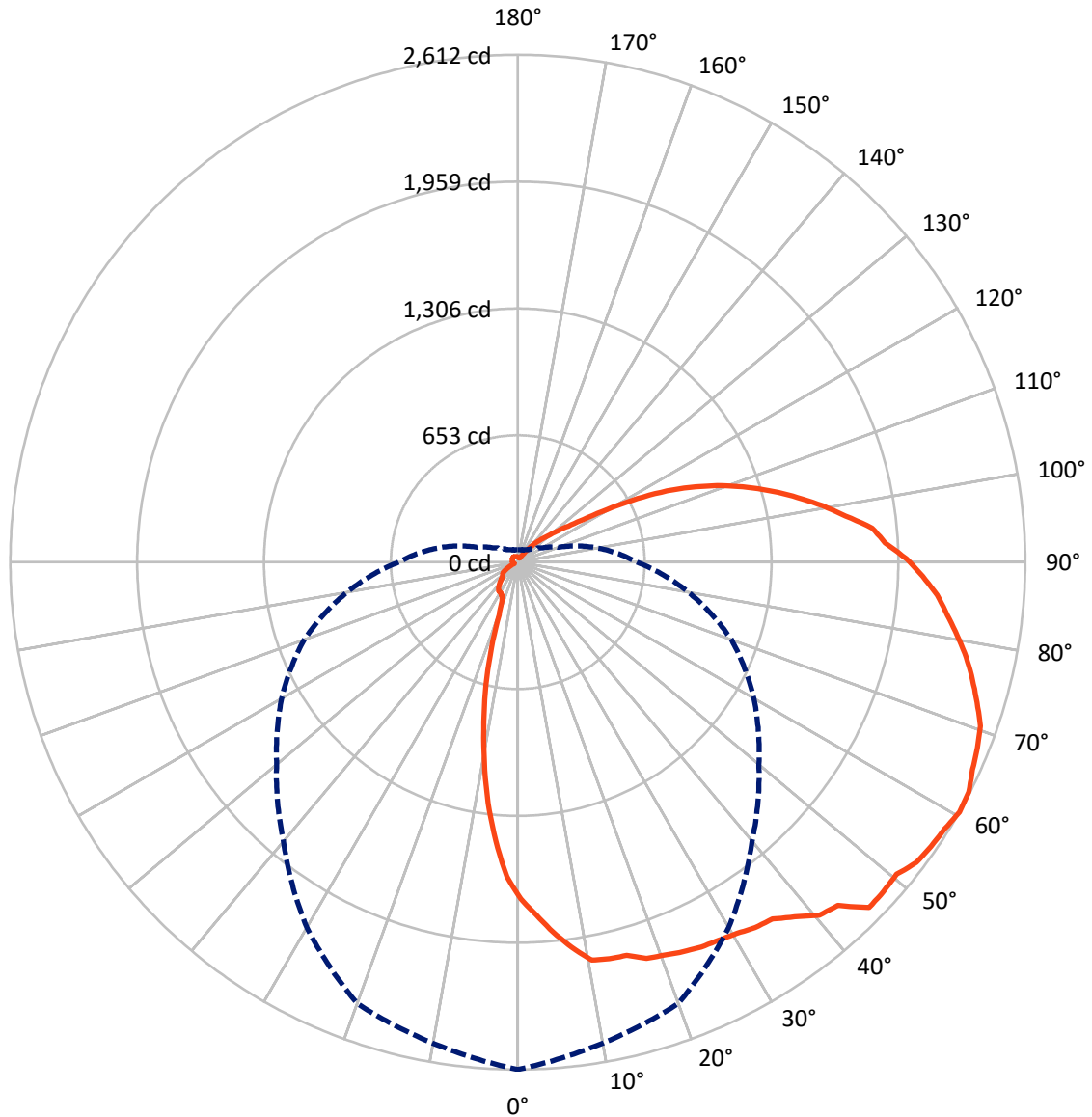
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.4 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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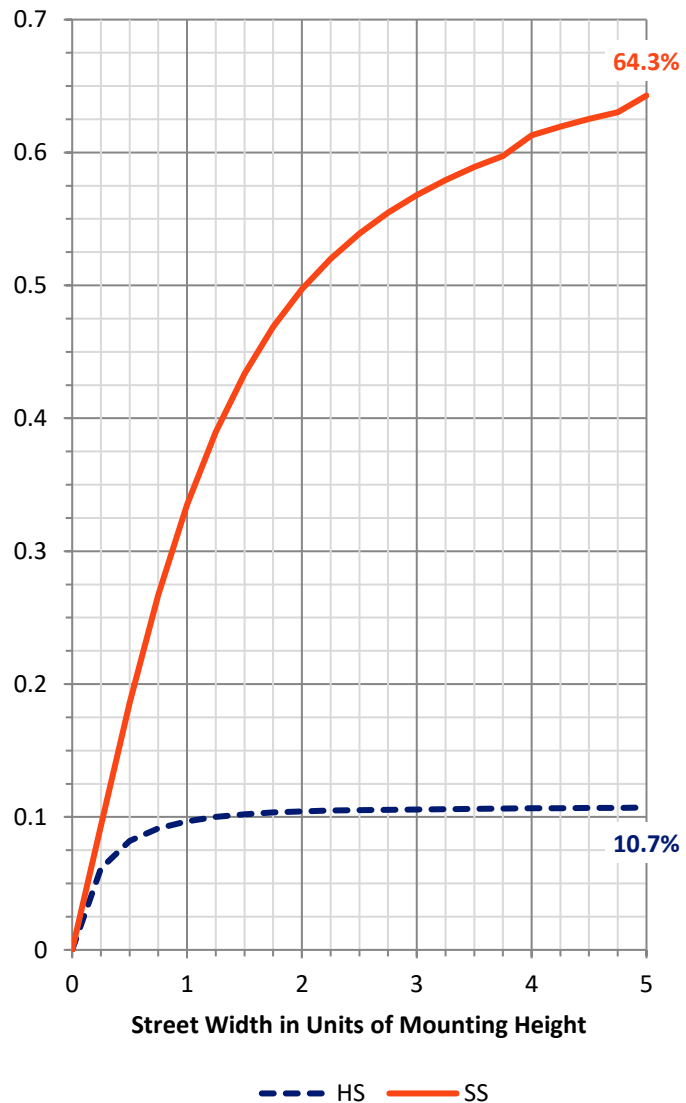
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	805.3	99.2	904.5
	% Fixture	10.9	1.3	12.3
Street Side	Lumens	5229.3	1226.2	6455.5
	% Fixture	71.1	16.7	87.7
Total	Lumens	6034.6	1325.4	7360.0
	% Fixture	82.0	18.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.6	2.2
10°-20°	420.7	5.7
20°-30°	587.4	8.0
30°-40°	715.4	9.7
40°-50°	818.4	11.1
50°-60°	887.7	12.1
60°-70°	903.6	12.3
70°-80°	833.2	11.3
80°-90°	708.7	9.6
90°-100°	551.2	7.5
100°-110°	379.8	5.2
110°-120°	210.8	2.9
120°-130°	93.8	1.3
130°-140°	45.7	0.6
140°-150°	21.6	0.3
150°-160°	12.4	0.2
160°-170°	7.6	0.1
170°-180°	2.5	0.0
0°-90°	6034.6	82.0
0°-180°	7360.0	100.0



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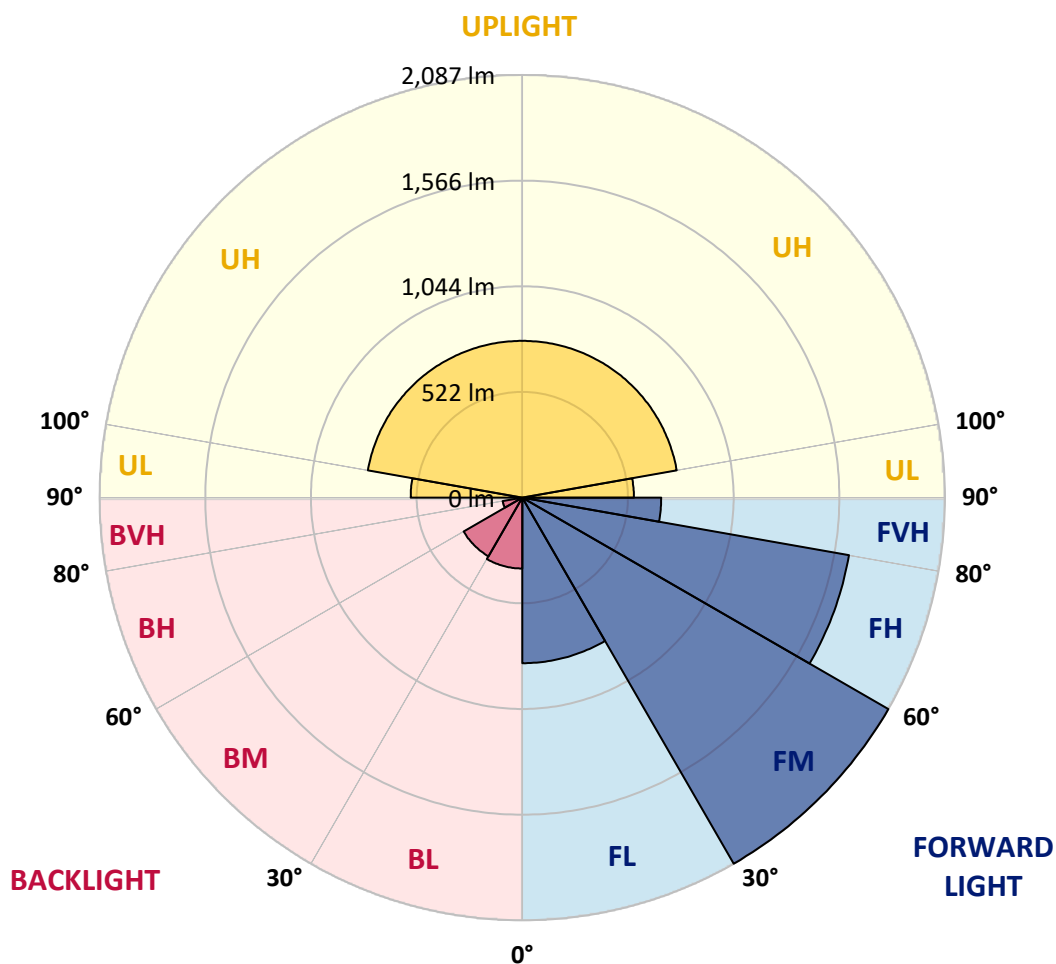
CATALOG NUMBER: WPMLED15S-60W_SWITCH-3000K

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	817.6	11.1			
FM (30°-60°)	2087.4	28.4			
FH (60°-80°)	1638.3	22.3			G1/1800
FVH (80°-90°)	686.1	9.3			G4/750
BL (0°-30°)	350.1	4.8	B1/500		
BM (30°-60°)	334.2	4.5	B1/1000		
BH (60°-80°)	98.6	1.3	B0/110		G0/110
BVH (80°-90°)	22.6	0.3			G1/100
UL (90°-100°)	551.2	7.5		U4/1000	
UH (100°-180°)	774.2	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°	1732.9	1732.9	1732.9	1732.9	1732.9	1732.9	1732.9	1732.9	1732.9	1732.9	1732.9
2.5°	1818.8	1811.8	1804.9	1802.4	1801.4	1796.2	1786.7	1771.6	1739.7	1707.8	1683.7
5°	1914.8	1906.9	1899.0	1891.1	1883.2	1860.1	1822.1	1784.5	1748.7	1712.9	1678.9
7.5°	2003.0	1992.2	1981.4	1953.5	1919.9	1891.4	1868.1	1835.0	1772.8	1710.5	1640.5
10°	2083.5	2072.4	2061.2	2040.3	2016.0	1971.5	1906.7	1838.0	1757.5	1677.0	1587.4
12.5°	2094.7	2074.3	2053.9	2048.9	2049.0	2012.6	1939.5	1861.7	1770.0	1678.3	1551.5
15°	2100.9	2070.7	2040.5	2023.8	2011.6	1981.2	1932.6	1869.5	1762.7	1656.0	1497.8
17.5°	2144.7	2103.7	2062.6	2042.9	2030.3	1998.9	1948.8	1879.2	1751.2	1623.3	1439.7
20°	2159.4	2136.0	2112.5	2077.1	2037.7	1990.5	1935.4	1858.8	1717.5	1576.2	1367.0
22.5°	2178.7	2149.9	2121.1	2078.4	2031.2	1978.6	1920.6	1838.6	1684.5	1530.3	1292.7
25°	2195.2	2172.9	2150.6	2096.4	2031.6	1964.0	1893.6	1801.9	1646.4	1491.0	1225.2
27.5°	2204.1	2180.9	2157.7	2088.7	2004.3	1923.7	1847.1	1749.9	1591.4	1432.9	1147.4
30°	2218.5	2186.6	2154.8	2072.1	1972.5	1883.9	1806.5	1708.6	1549.4	1390.2	1080.9
32.5°	2242.9	2202.5	2162.1	2070.1	1961.0	1857.9	1760.8	1648.5	1490.6	1332.7	1022.0
35°	2256.4	2213.6	2170.7	2073.4	1957.8	1846.2	1738.5	1613.9	1438.5	1263.1	945.9
37.5°	2316.5	2254.7	2192.8	2072.4	1932.4	1799.0	1672.2	1534.8	1365.8	1196.7	873.0
40°	2389.8	2315.2	2240.5	2092.1	1919.2	1763.8	1626.1	1479.2	1305.0	1130.8	803.0
42.5°	2416.1	2350.0	2284.0	2122.2	1928.6	1748.3	1581.4	1413.5	1242.6	1071.7	744.9
45°	2536.3	2438.0	2339.8	2153.5	1937.9	1741.5	1564.3	1385.2	1200.6	1016.0	688.7
47.5°	2533.6	2445.6	2357.6	2166.8	1941.8	1731.5	1536.0	1339.8	1141.3	942.9	634.0
50°	2526.5	2448.2	2369.9	2172.6	1935.7	1707.9	1489.1	1275.7	1078.3	880.9	590.2
52.5°	2569.2	2470.7	2372.2	2167.7	1927.8	1700.1	1484.4	1266.4	1041.6	816.8	547.3
55°	2582.1	2484.8	2387.6	2169.2	1910.5	1673.8	1459.1	1237.1	993.2	749.2	504.5
57.5°	2591.2	2497.1	2402.9	2167.1	1884.2	1639.5	1433.3	1212.3	947.4	682.5	462.3
60°	2612.3	2515.0	2417.8	2171.8	1876.4	1620.3	1403.6	1171.3	892.2	613.1	418.6
62.5°	2605.6	2518.4	2431.1	2183.3	1882.0	1614.7	1381.5	1132.2	834.8	537.4	371.1
65°	2572.9	2494.1	2415.4	2169.2	1867.1	1599.1	1365.1	1108.2	782.1	456.0	319.6
67.5°	2551.3	2475.2	2399.2	2141.3	1822.7	1549.2	1320.7	1064.3	724.0	383.8	272.8
70°	2526.8	2444.8	2362.8	2101.6	1780.6	1506.6	1279.5	1020.8	667.5	314.2	226.8
72.5°	2472.3	2400.6	2328.8	2064.1	1735.0	1453.0	1218.1	954.1	602.7	251.3	185.0
75°	2418.3	2342.0	2265.8	2005.5	1683.7	1402.6	1162.2	894.7	546.2	197.8	150.1
77.5°	2360.9	2283.8	2206.6	1949.4	1632.1	1347.9	1096.8	824.8	489.9	154.9	121.5
80°	2294.3	2213.0	2131.6	1876.4	1563.4	1279.4	1024.7	754.8	439.6	124.3	100.0
82.5°	2227.1	2143.6	2060.0	1806.7	1496.7	1211.0	949.4	680.9	392.0	103.1	84.8
85°	2166.2	2085.0	2003.9	1748.5	1435.1	1143.1	872.6	605.0	346.1	87.1	73.1
87.5°	2085.8	1999.9	1913.9	1663.6	1358.5	1069.6	797.0	534.7	303.3	72.0	62.9
90°	2000.6	1914.1	1827.6	1582.6	1284.6	999.2	726.4	470.5	265.3	60.1	54.8
92.5°	1894.3	1811.7	1729.2	1493.3	1206.3	925.3	650.2	400.6	227.2	53.7	50.3
95°	1833.2	1736.6	1640.0	1404.7	1123.3	848.0	578.8	340.7	195.5	50.3	47.5
97.5°	1704.9	1621.3	1537.7	1312.5	1040.2	773.8	513.4	288.1	168.3	48.5	45.8
100°	1594.8	1507.1	1419.4	1205.9	950.6	699.7	453.3	244.1	146.1	48.2	45.1
102.5°	1478.3	1396.2	1314.1	1110.9	867.4	630.1	398.8	205.8	127.1	48.5	44.6
105°	1364.1	1280.8	1197.5	1004.9	775.9	556.3	346.1	172.9	110.8	48.8	44.3
107.5°	1245.1	1164.6	1084.1	902.2	686.5	485.5	299.1	147.1	98.0	48.9	43.7
110°	1125.5	1041.9	958.3	787.2	586.9	409.0	253.4	127.0	87.8	48.6	42.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	994.4	910.7	827.1	670.4	489.3	336.8	213.0	112.1	79.9	47.7	41.9
115°	852.7	772.9	693.2	554.8	396.8	270.2	175.1	97.4	71.9	46.5	40.5
117.5°	697.6	630.5	563.4	452.3	326.5	224.4	145.9	82.4	63.7	45.0	39.1
120°	532.9	484.3	435.6	355.8	265.7	188.1	123.0	70.7	56.8	43.0	37.5
122.5°	403.1	373.8	344.5	288.3	223.1	162.8	107.1	62.6	51.5	40.4	35.6
125°	319.3	303.0	286.8	243.4	190.9	140.9	93.5	55.8	46.9	38.0	33.9
127.5°	262.3	252.1	241.8	206.5	162.9	121.0	80.8	49.1	42.4	35.8	32.5
130°	216.8	210.2	203.5	172.8	134.1	98.9	67.2	42.3	38.0	33.7	31.1
132.5°	182.4	178.1	173.7	145.8	109.9	79.8	55.4	36.5	34.1	31.7	29.9
135°	155.4	150.4	145.3	120.7	89.6	64.8	46.4	32.2	31.1	30.0	28.8
137.5°	126.1	120.6	115.0	95.7	71.9	53.1	39.4	29.0	28.7	28.5	27.8
140°	98.6	94.1	89.6	75.0	57.1	43.4	33.8	26.7	26.8	26.9	26.7
142.5°	73.1	70.9	68.6	58.0	44.7	35.3	29.9	25.7	25.5	25.3	25.5
145°	53.5	51.9	50.4	43.7	35.3	29.9	27.6	25.6	24.6	23.5	24.5
147.5°	42.4	41.2	40.0	35.2	29.3	26.3	26.1	25.6	24.1	22.7	24.1
150°	35.0	33.8	32.5	29.2	25.1	23.8	25.1	25.7	24.3	23.0	24.4
152.5°	29.6	28.6	27.7	26.0	24.1	23.5	24.2	24.5	23.9	23.3	24.6
155°	25.4	24.4	23.5	23.3	23.3	23.4	23.5	23.6	23.6	23.6	24.8
157.5°	22.4	22.5	22.6	23.6	24.9	25.1	24.2	23.5	23.7	23.9	25.0
160°	23.1	23.4	23.7	24.5	25.5	25.5	24.5	23.8	24.0	24.1	25.2
162.5°	26.3	26.2	26.1	26.0	25.8	25.4	24.6	24.0	24.2	24.4	25.4
165°	27.1	26.8	26.4	25.7	24.8	24.3	24.2	24.2	24.4	24.6	25.6
167.5°	26.5	25.9	25.4	24.9	24.5	24.3	24.4	24.5	24.7	24.8	25.7
170°	24.9	24.7	24.6	24.6	24.6	24.7	24.8	24.8	24.9	25.0	25.8
172.5°	25.4	25.2	25.1	25.1	25.1	25.1	25.1	25.1	25.2	25.2	25.9
175°	25.9	25.8	25.6	25.6	25.6	25.5	25.5	25.4	25.4	25.4	25.9
177.5°	26.5	26.4	26.2	26.2	26.1	26.0	25.8	25.6	25.6	25.5	26.0
180°	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	1732.9	1732.9	1732.9	1732.9	1732.9	1732.9	1732.9	1732.9
2.5°	1659.5	1645.8	1635.5	1624.4	1612.5	1605.4	1612.5	1619.7
5°	1644.8	1602.1	1556.5	1515.5	1479.1	1450.3	1444.5	1438.7
7.5°	1570.5	1499.6	1428.3	1369.8	1324.1	1285.3	1267.4	1249.6
10°	1497.8	1402.7	1305.6	1222.0	1151.8	1092.7	1067.3	1041.8
12.5°	1424.7	1298.2	1171.9	1061.3	966.4	889.1	864.8	840.6
15°	1339.6	1182.2	1025.1	894.9	791.6	707.1	679.3	651.5
17.5°	1256.1	1073.7	891.6	744.1	631.0	536.8	499.0	461.3
20°	1157.8	957.8	760.7	597.9	469.4	363.4	325.3	287.3
22.5°	1055.0	838.6	629.2	464.6	344.7	250.4	233.1	215.8
25°	959.4	727.2	506.3	355.1	273.5	210.4	202.7	195.0
27.5°	861.9	628.2	411.9	280.0	232.5	195.7	190.7	185.7
30°	771.5	546.5	349.6	237.0	208.6	186.5	183.2	179.9
32.5°	711.2	497.6	316.4	215.9	196.1	181.1	180.2	179.4
35°	628.7	435.0	282.4	199.5	186.5	176.5	175.8	175.0
37.5°	549.3	376.4	253.7	187.1	176.7	168.2	165.7	163.2
40°	475.3	322.6	228.3	175.7	164.8	155.6	151.8	147.9
42.5°	418.1	281.3	207.7	164.6	152.0	141.5	137.2	132.8
45°	361.4	239.8	186.8	153.6	140.2	128.9	123.8	118.7
47.5°	325.2	214.9	170.8	141.8	127.9	116.3	111.6	106.9
50°	299.4	196.6	156.6	129.6	115.7	104.9	103.6	102.3
52.5°	277.9	181.8	143.5	117.6	104.3	94.8	97.1	99.4
55°	259.8	169.7	131.1	105.7	93.5	85.1	88.4	91.6
57.5°	242.2	158.0	119.3	94.5	83.6	75.8	77.2	78.6
60°	224.2	146.6	108.0	83.8	74.1	66.5	65.5	64.4
62.5°	204.8	134.8	97.0	73.5	64.2	56.6	54.1	51.6
65°	183.3	122.1	85.8	62.5	52.0	43.6	41.2	38.7
67.5°	161.8	108.5	74.5	50.7	36.9	25.9	22.8	19.7
70°	139.5	94.4	63.4	41.7	29.2	20.0	20.1	20.3
72.5°	118.7	81.1	53.1	34.9	26.7	20.5	20.8	21.0
75°	102.5	72.2	47.7	32.2	25.9	21.1	21.4	21.7
77.5°	88.1	64.1	43.4	30.5	25.5	21.8	22.1	22.4
80°	75.8	56.6	39.0	28.5	25.0	22.4	22.7	23.1
82.5°	66.4	50.7	35.8	27.2	24.7	23.0	23.4	23.8
85°	59.0	46.2	33.7	26.6	24.8	23.7	24.1	24.5
87.5°	53.7	43.2	32.3	26.2	25.1	24.3	24.7	25.2
90°	49.5	40.9	31.2	26.1	25.4	24.9	25.4	25.9
92.5°	46.8	39.4	30.6	26.1	25.7	25.5	26.1	26.6
95°	44.8	38.1	30.2	26.1	26.1	26.1	26.7	27.2
97.5°	43.1	37.0	29.8	26.2	26.4	26.7	27.2	27.8
100°	42.0	36.2	29.5	26.4	26.8	27.2	27.8	28.3
102.5°	40.8	35.3	29.2	26.5	27.1	27.8	28.3	28.9
105°	39.7	34.5	29.0	26.7	27.5	28.3	28.8	29.4
107.5°	38.5	33.6	28.9	27.0	27.9	28.8	29.4	29.9
110°	37.2	32.8	28.8	27.3	28.3	29.3	29.9	30.4



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 CATALOG NUMBER: WPMLED15S-60W_SWITCH-3000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	36.0	32.0	28.7	27.6	28.7	29.8	30.3	30.9
115°	34.6	31.2	28.5	27.9	29.1	30.2	30.8	31.4
117.5°	33.2	30.3	28.4	28.2	29.5	30.7	31.3	31.8
120°	31.9	29.6	28.4	28.5	29.9	31.1	31.7	32.2
122.5°	30.8	29.1	28.4	28.8	30.3	31.5	32.1	32.6
125°	29.9	28.7	28.4	29.1	30.6	31.9	32.4	32.9
127.5°	29.1	28.4	28.5	29.3	30.9	32.2	32.7	33.2
130°	28.5	28.2	28.6	29.6	31.2	32.5	33.0	33.5
132.5°	28.0	28.1	28.7	29.8	31.4	32.7	33.2	33.7
135°	27.7	28.0	28.9	30.1	31.6	32.9	33.4	33.8
137.5°	27.2	27.8	28.9	30.3	31.8	33.0	33.5	33.9
140°	26.5	27.5	28.9	30.4	31.8	33.1	33.5	34.0
142.5°	25.8	27.2	28.9	30.5	31.9	33.0	33.5	33.9
145°	25.5	27.1	28.9	30.5	31.8	32.9	33.4	33.8
147.5°	25.5	27.2	29.0	30.5	31.7	32.8	33.2	33.6
150°	25.7	27.3	29.0	30.4	31.6	32.6	33.0	33.3
152.5°	25.9	27.4	29.0	30.3	31.4	32.3	32.6	33.0
155°	26.1	27.5	29.0	30.2	31.1	31.9	32.3	32.6
157.5°	26.2	27.5	28.9	30.0	30.9	31.6	31.8	32.1
160°	26.3	27.5	28.8	29.8	30.6	31.2	31.4	31.7
162.5°	26.4	27.5	28.6	29.5	30.2	30.8	31.0	31.2
165°	26.5	27.5	28.5	29.3	29.9	30.4	30.5	30.7
167.5°	26.5	27.4	28.3	29.0	29.5	29.9	30.0	30.1
170°	26.6	27.3	28.1	28.7	29.1	29.4	29.5	29.6
172.5°	26.5	27.2	27.9	28.3	28.7	28.9	28.9	28.9
175°	26.5	27.1	27.6	28.0	28.3	28.5	28.4	28.4
177.5°	26.5	26.9	27.3	27.7	27.8	28.0	27.9	27.8
180°	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4

(END OF REPORT)