

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: P511367

Luminaire Tested: **WPMLED15S-40W_SWITCH-5000K**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511367
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-40W_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: 5616 lumens
Efficiency: N/A
Efficacy: 137.3 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

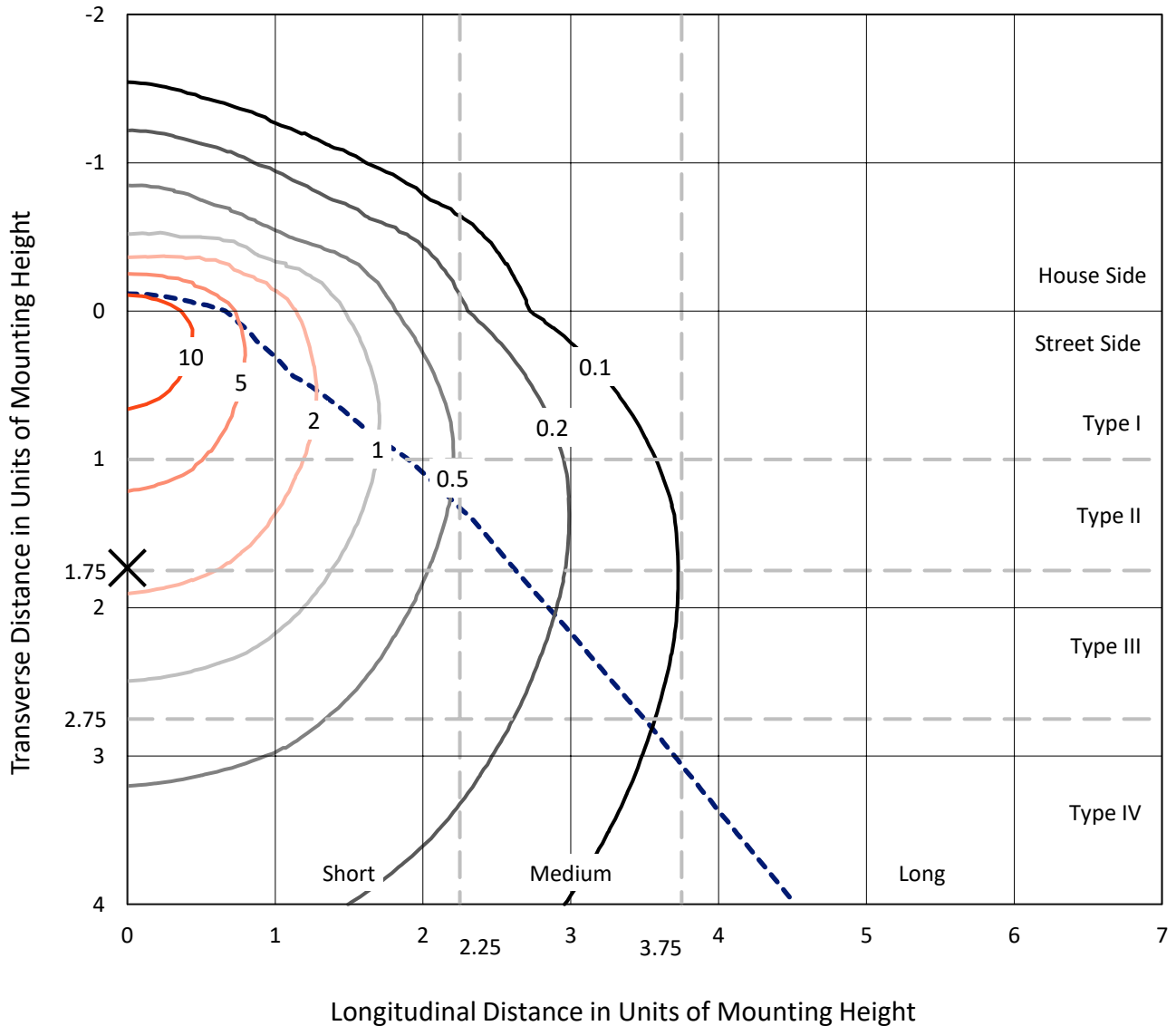
Input Watts (W): 40.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

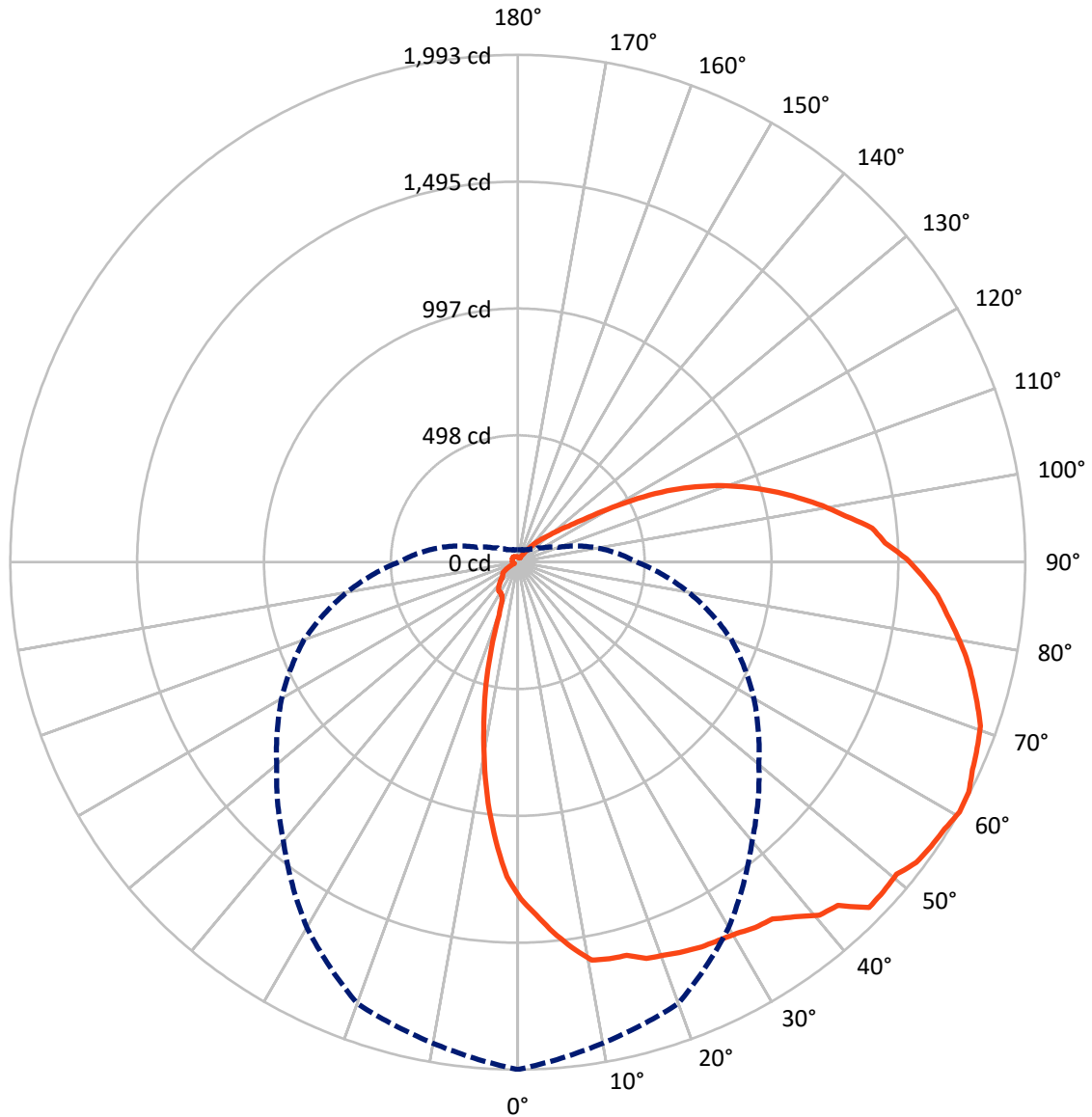
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.8 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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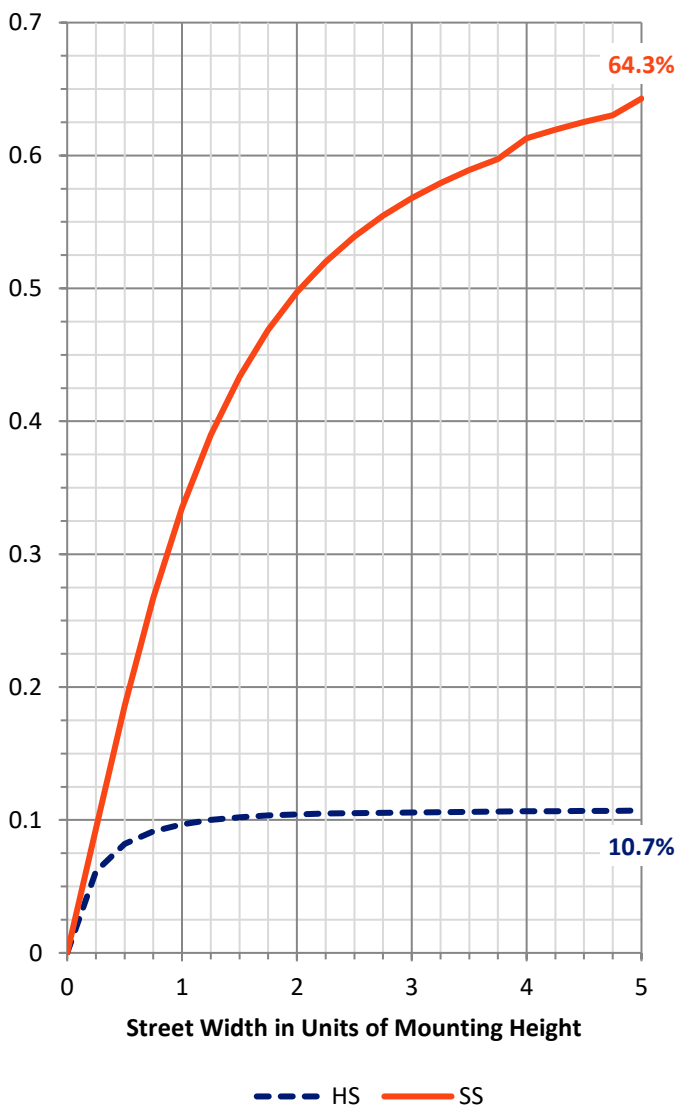
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	614.5	75.7	690.2
	% Fixture	10.9	1.3	12.3
Street Side	Lumens	3990.2	935.6	4925.8
	% Fixture	71.1	16.7	87.7
Total	Lumens	4604.7	1011.3	5616.0
	% Fixture	82.0	18.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.7	2.2
10°-20°	321.0	5.7
20°-30°	448.2	8.0
30°-40°	545.9	9.7
40°-50°	624.5	11.1
50°-60°	677.4	12.1
60°-70°	689.5	12.3
70°-80°	635.8	11.3
80°-90°	540.7	9.6
90°-100°	420.6	7.5
100°-110°	289.8	5.2
110°-120°	160.8	2.9
120°-130°	71.6	1.3
130°-140°	34.9	0.6
140°-150°	16.5	0.3
150°-160°	9.5	0.2
160°-170°	5.8	0.1
170°-180°	1.9	0.0
0°-90°	4604.7	82.0
0°-180°	5616.0	100.0

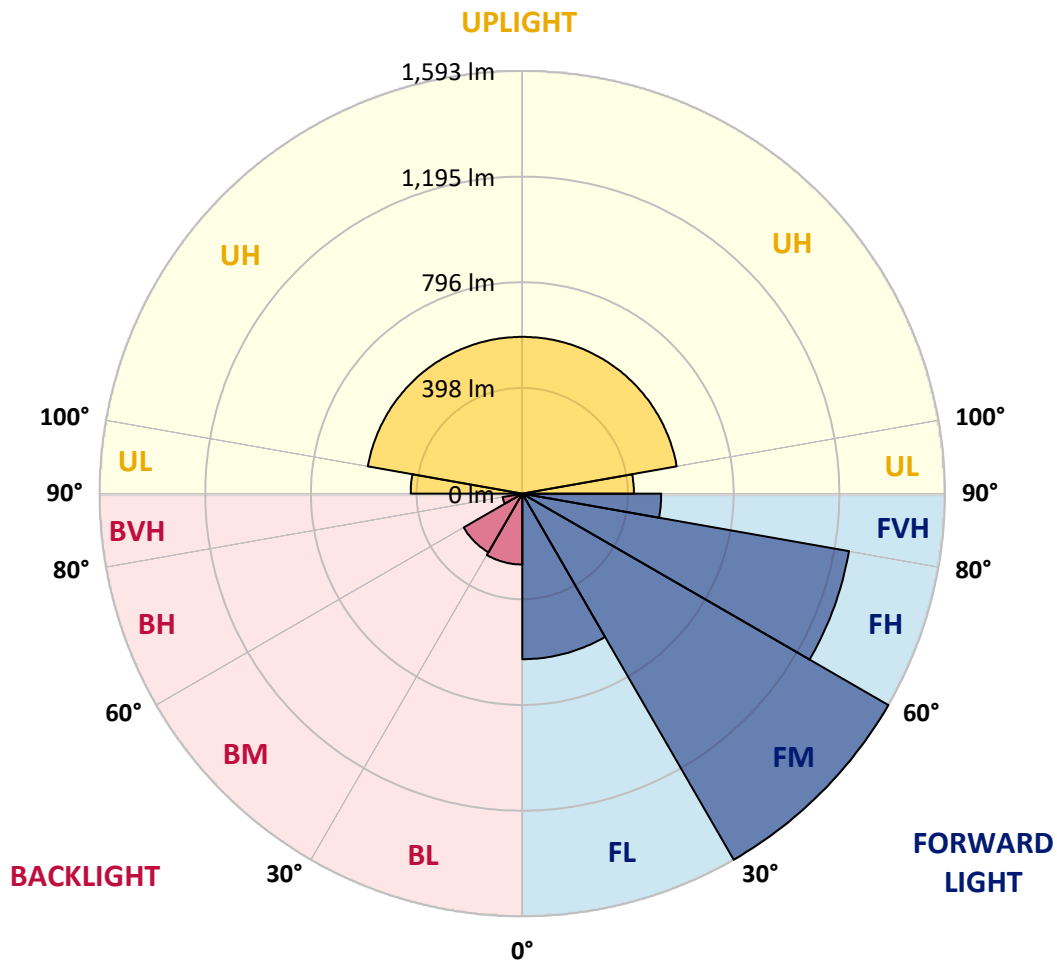


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	623.8	11.1			
FM (30°-60°)	1592.8	28.4			
FH (60°-80°)	1250.1	22.3			G1/1800
FVH (80°-90°)	523.5	9.3			G4/750
BL (0°-30°)	267.1	4.8	B1/500		
BM (30°-60°)	255.0	4.5	B1/1000		
BH (60°-80°)	75.2	1.3	B0/110		G0/110
BVH (80°-90°)	17.2	0.3			G1/100
UL (90°-100°)	420.6	7.5		U3/500	
UH (100°-180°)	590.7	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°	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3
2.5°	1387.8	1382.5	1377.2	1375.3	1374.6	1370.6	1363.3	1351.8	1327.5	1303.1	1284.7
5°	1461.1	1455.1	1449.1	1443.0	1436.9	1419.4	1390.3	1361.7	1334.3	1307.0	1281.0
7.5°	1528.3	1520.1	1511.9	1490.6	1464.9	1443.2	1425.4	1400.2	1352.7	1305.2	1251.8
10°	1589.8	1581.3	1572.8	1556.8	1538.3	1504.3	1454.9	1402.5	1341.0	1279.6	1211.3
12.5°	1598.4	1582.8	1567.2	1563.4	1563.5	1535.7	1479.9	1420.6	1350.6	1280.6	1183.8
15°	1603.1	1580.0	1557.0	1544.3	1535.0	1511.8	1474.7	1426.5	1345.1	1263.6	1142.9
17.5°	1636.5	1605.2	1573.8	1558.8	1549.2	1525.3	1487.0	1433.9	1336.3	1238.6	1098.5
20°	1647.7	1629.8	1612.0	1584.9	1554.9	1518.8	1476.8	1418.3	1310.5	1202.7	1043.1
22.5°	1662.4	1640.4	1618.5	1585.9	1549.9	1509.8	1465.5	1403.0	1285.3	1167.7	986.4
25°	1675.0	1658.0	1641.0	1599.7	1550.2	1498.6	1444.9	1374.9	1256.3	1137.7	934.9
27.5°	1681.9	1664.2	1646.5	1593.7	1529.3	1467.9	1409.4	1335.3	1214.3	1093.4	875.5
30°	1692.8	1668.5	1644.2	1581.1	1505.1	1437.5	1378.4	1303.8	1182.3	1060.8	824.8
32.5°	1711.4	1680.6	1649.7	1579.6	1496.3	1417.6	1343.5	1257.8	1137.4	1016.9	779.8
35°	1721.7	1689.1	1656.4	1582.1	1493.9	1408.7	1326.6	1231.5	1097.6	963.8	721.8
37.5°	1767.6	1720.4	1673.2	1581.3	1474.5	1372.7	1275.9	1171.1	1042.1	913.1	666.1
40°	1823.5	1766.6	1709.6	1596.4	1464.4	1345.9	1240.8	1128.7	995.8	862.8	612.8
42.5°	1843.6	1793.2	1742.8	1619.3	1471.6	1334.0	1206.7	1078.6	948.2	817.8	568.4
45°	1935.3	1860.3	1785.4	1643.2	1478.7	1328.9	1193.6	1057.0	916.1	775.3	525.5
47.5°	1933.2	1866.1	1798.9	1653.4	1481.7	1321.2	1172.0	1022.3	870.9	719.5	483.8
50°	1927.8	1868.1	1808.3	1657.8	1477.1	1303.2	1136.3	973.4	822.8	672.2	450.3
52.5°	1960.4	1885.3	1810.1	1654.0	1471.0	1297.2	1132.7	966.3	794.8	623.2	417.6
55°	1970.3	1896.0	1821.8	1655.2	1457.8	1277.2	1113.4	944.0	757.8	571.7	384.9
57.5°	1977.2	1905.4	1833.5	1653.6	1437.7	1251.0	1093.6	925.1	722.9	520.8	352.8
60°	1993.3	1919.1	1844.9	1657.2	1431.7	1236.3	1071.0	893.8	680.8	467.8	319.4
62.5°	1988.2	1921.6	1855.0	1666.0	1436.1	1232.1	1054.1	863.9	637.0	410.0	283.1
65°	1963.2	1903.1	1843.1	1655.2	1424.7	1220.2	1041.7	845.6	596.7	347.9	243.9
67.5°	1946.7	1888.7	1830.7	1633.9	1390.8	1182.1	1007.8	812.1	552.5	292.9	208.2
70°	1928.1	1865.5	1802.9	1603.6	1358.7	1149.6	976.3	778.9	509.3	239.7	173.1
72.5°	1886.5	1831.7	1777.0	1575.0	1323.9	1108.7	929.5	728.0	459.9	191.7	141.2
75°	1845.2	1787.1	1728.9	1530.2	1284.7	1070.2	886.8	682.7	416.8	150.9	114.5
77.5°	1801.5	1742.6	1683.8	1487.5	1245.4	1028.5	836.9	629.3	373.8	118.2	92.7
80°	1750.7	1688.6	1626.5	1431.8	1192.9	976.3	781.9	575.9	335.4	94.9	76.3
82.5°	1699.4	1635.6	1571.9	1378.6	1142.1	924.0	724.4	519.6	299.1	78.7	64.7
85°	1652.9	1591.0	1529.0	1334.2	1095.0	872.2	665.9	461.7	264.1	66.4	55.7
87.5°	1591.5	1526.0	1460.4	1269.4	1036.6	816.1	608.1	408.0	231.5	54.9	48.0
90°	1526.5	1460.6	1394.6	1207.6	980.2	762.5	554.3	359.0	202.4	45.8	41.8
92.5°	1445.4	1382.4	1319.4	1139.5	920.5	706.0	496.2	305.7	173.3	41.0	38.4
95°	1398.8	1325.1	1251.4	1071.9	857.1	647.0	441.7	259.9	149.2	38.4	36.3
97.5°	1300.9	1237.1	1173.3	1001.5	793.7	590.5	391.8	219.9	128.4	37.0	34.9
100°	1216.9	1150.0	1083.1	920.2	725.3	533.9	345.9	186.2	111.5	36.8	34.4
102.5°	1128.0	1065.4	1002.7	847.7	661.9	480.8	304.3	157.0	97.0	37.0	34.0
105°	1040.9	977.3	913.7	766.8	592.1	424.5	264.1	131.9	84.6	37.3	33.8
107.5°	950.1	888.6	827.2	688.4	523.8	370.4	228.2	112.2	74.8	37.3	33.3
110°	858.8	795.0	731.2	600.7	447.8	312.1	193.4	96.9	67.0	37.1	32.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	758.8	694.9	631.1	511.5	373.3	257.0	162.6	85.6	61.0	36.4	31.9
115°	650.6	589.8	528.9	423.3	302.8	206.2	133.6	74.3	54.9	35.5	30.9
117.5°	532.3	481.1	429.9	345.1	249.2	171.2	111.3	62.9	48.6	34.3	29.8
120°	406.6	369.5	332.4	271.5	202.7	143.5	93.8	53.9	43.4	32.8	28.6
122.5°	307.6	285.2	262.8	220.0	170.3	124.2	81.7	47.8	39.3	30.8	27.2
125°	243.7	231.2	218.8	185.7	145.6	107.5	71.4	42.6	35.8	29.0	25.9
127.5°	200.2	192.3	184.5	157.6	124.3	92.3	61.7	37.4	32.4	27.3	24.8
130°	165.5	160.4	155.3	131.9	102.3	75.4	51.3	32.3	29.0	25.7	23.7
132.5°	139.2	135.9	132.6	111.2	83.9	60.9	42.2	27.8	26.0	24.2	22.8
135°	118.6	114.7	110.9	92.1	68.4	49.5	35.4	24.6	23.7	22.9	22.0
137.5°	96.2	92.0	87.7	73.0	54.9	40.5	30.0	22.1	21.9	21.7	21.2
140°	75.2	71.8	68.4	57.3	43.6	33.1	25.8	20.3	20.4	20.5	20.4
142.5°	55.8	54.1	52.4	44.3	34.1	26.9	22.8	19.6	19.4	19.3	19.5
145°	40.8	39.6	38.5	33.3	26.9	22.8	21.1	19.5	18.7	17.9	18.7
147.5°	32.4	31.4	30.5	26.9	22.4	20.0	19.9	19.5	18.4	17.4	18.4
150°	26.7	25.8	24.8	22.3	19.2	18.1	19.1	19.6	18.6	17.5	18.6
152.5°	22.6	21.8	21.1	19.8	18.4	17.9	18.4	18.7	18.2	17.8	18.8
155°	19.3	18.7	18.0	17.8	17.8	17.8	17.9	18.0	18.0	18.0	18.9
157.5°	17.1	17.1	17.2	18.0	19.0	19.2	18.4	18.0	18.1	18.2	19.1
160°	17.6	17.8	18.0	18.7	19.4	19.4	18.7	18.1	18.3	18.4	19.3
162.5°	20.1	20.0	19.9	19.8	19.7	19.4	18.8	18.3	18.5	18.6	19.4
165°	20.7	20.4	20.1	19.6	18.9	18.6	18.5	18.5	18.7	18.8	19.5
167.5°	20.2	19.8	19.4	19.0	18.7	18.5	18.6	18.7	18.8	19.0	19.6
170°	19.0	18.9	18.8	18.8	18.8	18.8	18.9	18.9	19.0	19.1	19.7
172.5°	19.4	19.3	19.2	19.1	19.1	19.2	19.2	19.2	19.2	19.2	19.7
175°	19.8	19.7	19.6	19.5	19.5	19.5	19.4	19.4	19.4	19.4	19.8
177.5°	20.2	20.1	20.0	20.0	19.9	19.8	19.7	19.5	19.5	19.5	19.8
180°	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3
2.5°	1266.3	1255.8	1248.0	1239.5	1230.4	1225.0	1230.4	1235.9
5°	1255.1	1222.5	1187.7	1156.4	1128.6	1106.6	1102.2	1097.8
7.5°	1198.3	1144.2	1089.9	1045.2	1010.3	980.7	967.1	953.5
10°	1142.9	1070.3	996.2	932.4	878.8	833.8	814.4	794.9
12.5°	1087.1	990.6	894.2	809.8	737.4	678.4	659.9	641.4
15°	1022.2	902.1	782.2	682.9	604.0	539.6	518.3	497.1
17.5°	958.5	819.3	680.3	567.8	481.5	409.6	380.8	352.0
20°	883.5	730.8	580.5	456.2	358.1	277.3	248.3	219.2
22.5°	805.0	639.9	480.1	354.5	263.0	191.1	177.9	164.7
25°	732.0	554.9	386.3	270.9	208.7	160.5	154.7	148.8
27.5°	657.7	479.4	314.3	213.6	177.4	149.4	145.5	141.7
30°	588.7	417.0	266.8	180.8	159.2	142.3	139.8	137.3
32.5°	542.7	379.7	241.4	164.7	149.6	138.2	137.5	136.9
35°	479.7	331.9	215.5	152.3	142.3	134.7	134.1	133.6
37.5°	419.1	287.2	193.6	142.8	134.8	128.4	126.4	124.5
40°	362.7	246.2	174.2	134.1	125.7	118.8	115.8	112.9
42.5°	319.0	214.6	158.5	125.6	116.0	108.0	104.7	101.4
45°	275.8	183.0	142.5	117.2	107.0	98.3	94.4	90.6
47.5°	248.1	164.0	130.3	108.2	97.6	88.7	85.2	81.6
50°	228.4	150.0	119.5	98.9	88.3	80.1	79.1	78.1
52.5°	212.0	138.7	109.5	89.8	79.6	72.4	74.1	75.8
55°	198.2	129.5	100.0	80.7	71.3	65.0	67.4	69.9
57.5°	184.8	120.6	91.0	72.1	63.8	57.9	58.9	59.9
60°	171.0	111.9	82.4	64.0	56.5	50.7	50.0	49.2
62.5°	156.3	102.9	74.0	56.1	49.0	43.2	41.3	39.4
65°	139.9	93.1	65.5	47.7	39.7	33.3	31.4	29.5
67.5°	123.4	82.8	56.9	38.7	28.2	19.7	17.4	15.1
70°	106.4	72.0	48.4	31.8	22.3	15.2	15.4	15.5
72.5°	90.6	61.9	40.5	26.7	20.3	15.7	15.8	16.0
75°	78.2	55.1	36.4	24.6	19.7	16.1	16.3	16.5
77.5°	67.2	48.9	33.1	23.3	19.4	16.6	16.8	17.1
80°	57.8	43.2	29.8	21.7	19.0	17.1	17.3	17.6
82.5°	50.7	38.7	27.3	20.7	18.9	17.6	17.8	18.1
85°	45.0	35.2	25.7	20.3	19.0	18.1	18.4	18.7
87.5°	41.0	33.0	24.6	20.0	19.1	18.5	18.9	19.2
90°	37.8	31.2	23.8	19.9	19.3	19.0	19.4	19.7
92.5°	35.7	30.1	23.4	19.9	19.6	19.5	19.9	20.3
95°	34.2	29.1	23.0	19.9	19.9	19.9	20.3	20.7
97.5°	32.9	28.3	22.7	20.0	20.2	20.4	20.8	21.2
100°	32.0	27.6	22.5	20.1	20.4	20.8	21.2	21.6
102.5°	31.1	26.9	22.3	20.2	20.7	21.2	21.6	22.0
105°	30.3	26.3	22.1	20.4	21.0	21.6	22.0	22.4
107.5°	29.4	25.7	22.1	20.6	21.3	22.0	22.4	22.8
110°	28.4	25.0	22.0	20.8	21.6	22.3	22.8	23.2



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 CATALOG NUMBER: WPMLED15S-40W_SWITCH-5000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	27.5	24.4	21.9	21.0	21.9	22.7	23.2	23.6
115°	26.4	23.8	21.8	21.3	22.2	23.1	23.5	23.9
117.5°	25.3	23.1	21.7	21.5	22.5	23.4	23.9	24.3
120°	24.4	22.6	21.7	21.7	22.8	23.7	24.2	24.6
122.5°	23.5	22.2	21.6	21.9	23.1	24.1	24.5	24.9
125°	22.8	21.9	21.7	22.2	23.4	24.3	24.7	25.1
127.5°	22.2	21.7	21.7	22.4	23.6	24.6	25.0	25.3
130°	21.8	21.5	21.8	22.6	23.8	24.8	25.2	25.5
132.5°	21.4	21.4	21.9	22.8	24.0	25.0	25.3	25.7
135°	21.1	21.4	22.0	22.9	24.1	25.1	25.5	25.8
137.5°	20.7	21.2	22.1	23.1	24.2	25.2	25.5	25.9
140°	20.2	21.0	22.1	23.2	24.3	25.2	25.6	25.9
142.5°	19.7	20.7	22.1	23.3	24.3	25.2	25.5	25.9
145°	19.4	20.7	22.1	23.3	24.3	25.1	25.5	25.8
147.5°	19.5	20.8	22.1	23.3	24.2	25.0	25.3	25.6
150°	19.6	20.9	22.1	23.2	24.1	24.9	25.1	25.4
152.5°	19.8	20.9	22.1	23.1	24.0	24.6	24.9	25.2
155°	19.9	21.0	22.1	23.0	23.8	24.4	24.6	24.8
157.5°	20.0	21.0	22.0	22.9	23.5	24.1	24.3	24.5
160°	20.1	21.0	22.0	22.7	23.3	23.8	24.0	24.2
162.5°	20.2	21.0	21.8	22.5	23.1	23.5	23.7	23.8
165°	20.2	21.0	21.7	22.3	22.8	23.2	23.3	23.4
167.5°	20.2	20.9	21.6	22.1	22.5	22.8	22.9	23.0
170°	20.3	20.8	21.4	21.9	22.2	22.5	22.5	22.5
172.5°	20.3	20.8	21.3	21.6	21.9	22.1	22.1	22.1
175°	20.2	20.7	21.1	21.4	21.6	21.7	21.7	21.7
177.5°	20.2	20.5	20.9	21.1	21.3	21.3	21.3	21.2
180°	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3

(END OF REPORT)