

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: P511365

Luminaire Tested: **WPMLED15S-40W_SWITCH-3000K**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511365
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-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: 5409 lumens
Efficiency: N/A
Efficacy: 135.2 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
Input Voltage (V): 120
Input Current (A_{in}): 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

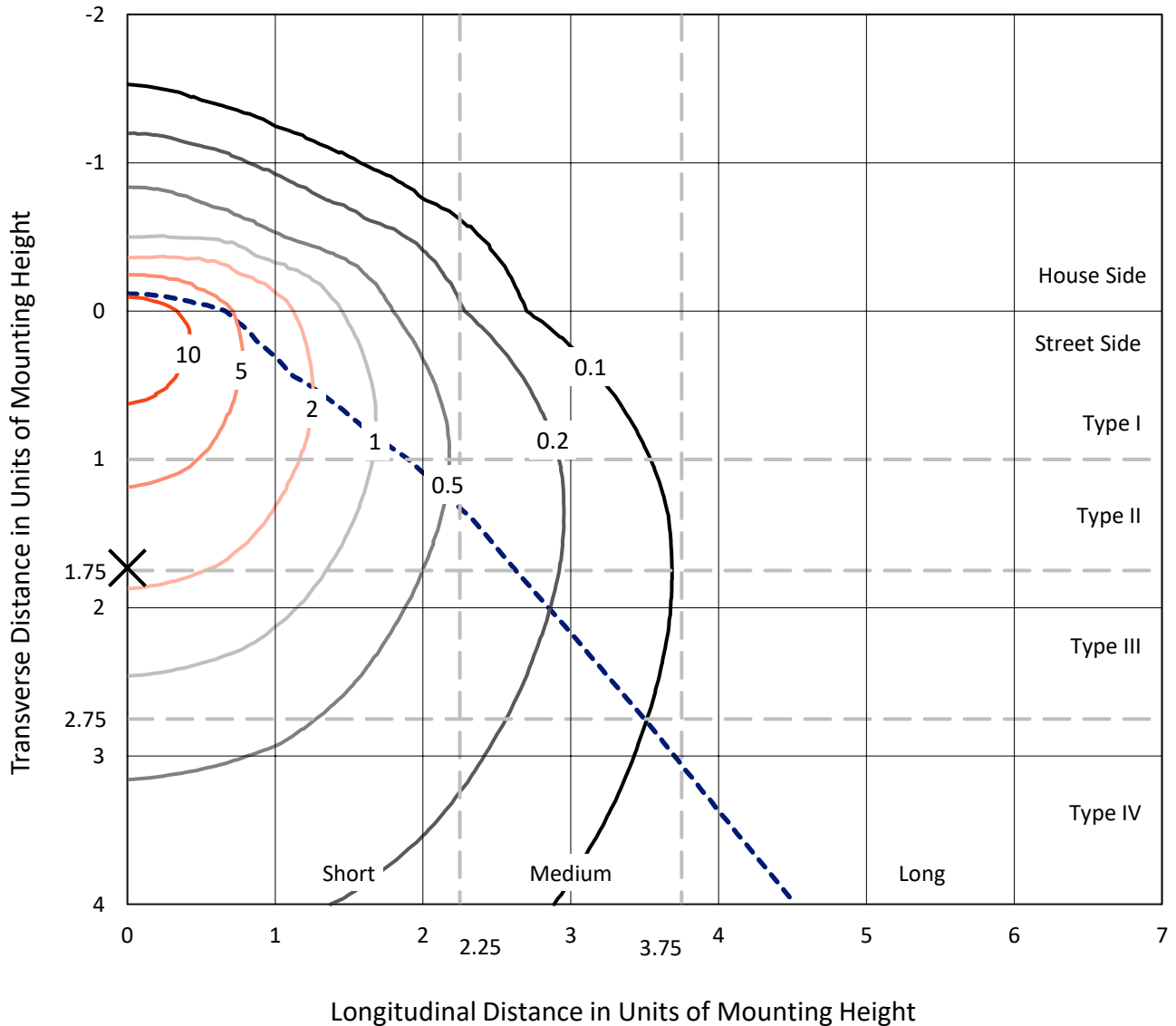




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Iso-Footcandle Lines of Horizontal Illumination

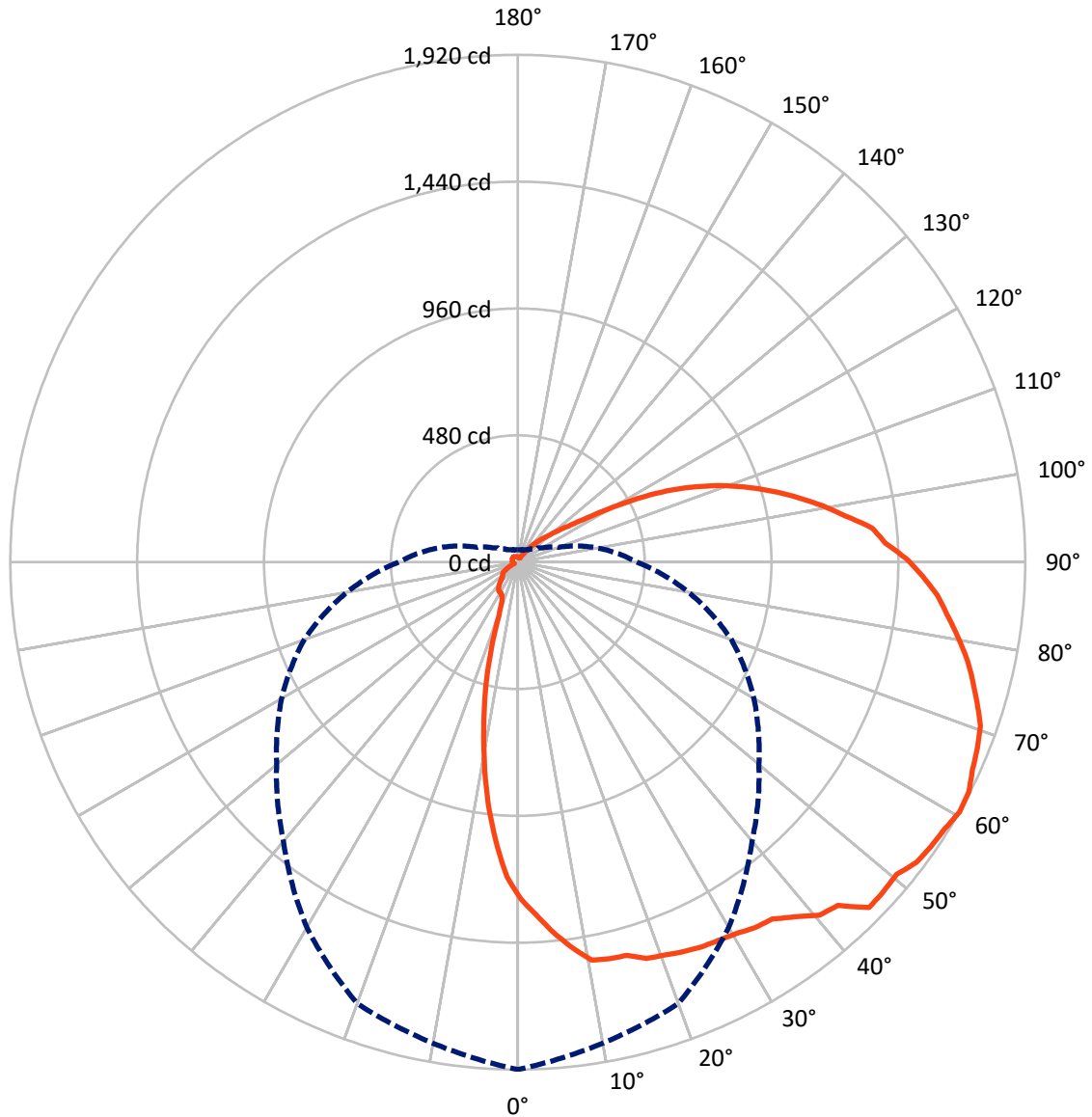
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.3 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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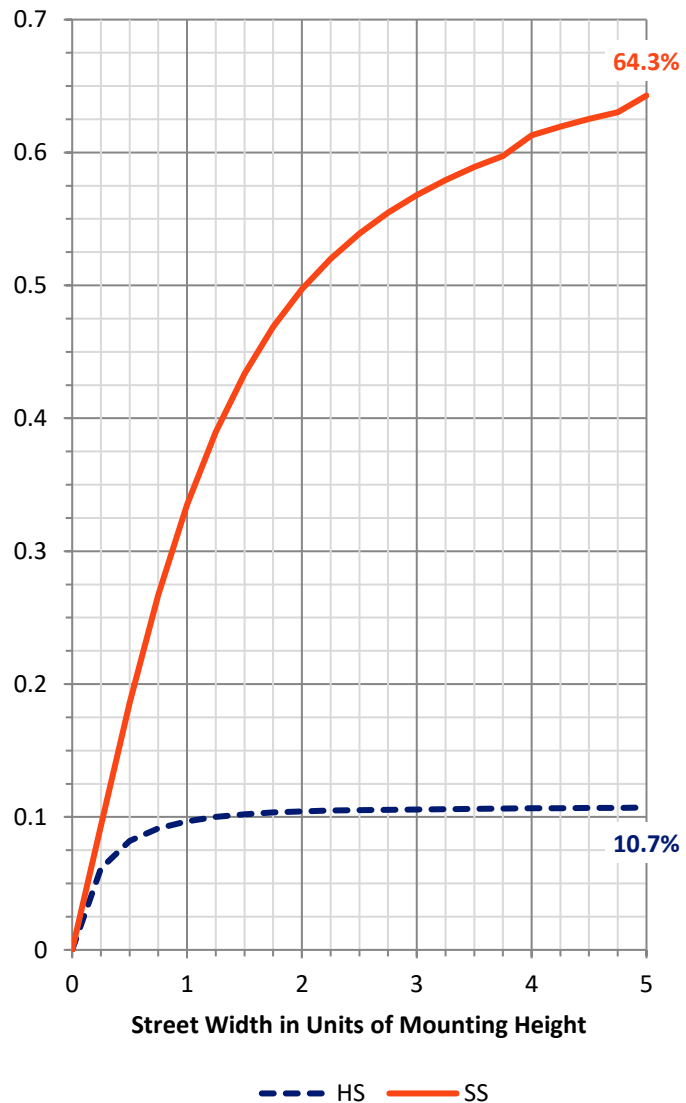
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	591.9	72.9	664.7
	% Fixture	10.9	1.3	12.3
Street Side	Lumens	3843.1	901.2	4744.3
	% Fixture	71.1	16.7	87.7
Total	Lumens	4435.0	974.0	5409.0
	% Fixture	82.0	18.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.3	2.2
10°-20°	309.2	5.7
20°-30°	431.7	8.0
30°-40°	525.8	9.7
40°-50°	601.5	11.1
50°-60°	652.4	12.1
60°-70°	664.1	12.3
70°-80°	612.4	11.3
80°-90°	520.8	9.6
90°-100°	405.1	7.5
100°-110°	279.1	5.2
110°-120°	154.9	2.9
120°-130°	68.9	1.3
130°-140°	33.6	0.6
140°-150°	15.8	0.3
150°-160°	9.1	0.2
160°-170°	5.6	0.1
170°-180°	1.9	0.0
0°-90°	4435.0	82.0
0°-180°	5409.0	100.0

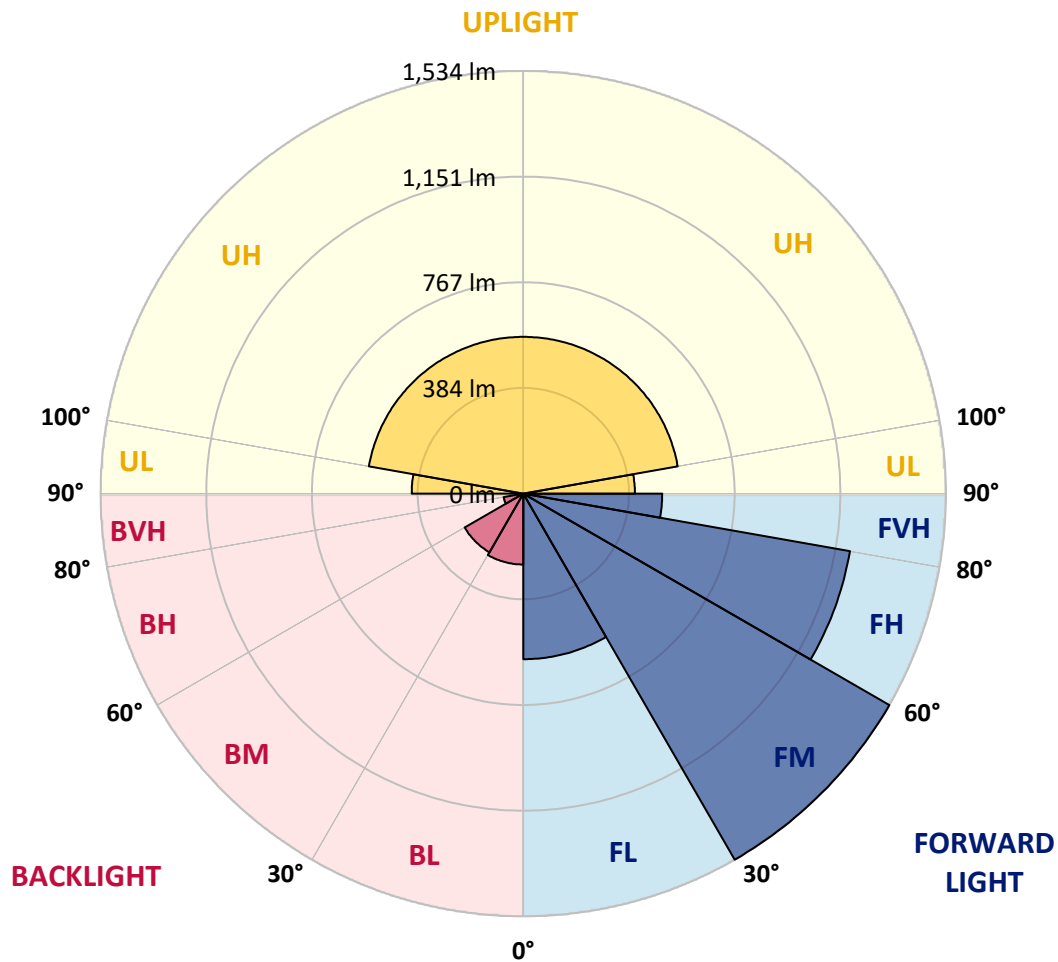


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	600.8	11.1			
FM	(30°-60°)	1534.0	28.4			
FH	(60°-80°)	1204.0	22.3			G1/1800
FVH	(80°-90°)	504.2	9.3			G4/750
BL	(0°-30°)	257.3	4.8	B1/500		
BM	(30°-60°)	245.6	4.5	B1/1000		
BH	(60°-80°)	72.4	1.3	B0/110		G0/110
BVH	(80°-90°)	16.6	0.3			G1/100
UL	(90°-100°)	405.1	7.5		U3/500	
UH	(100°-180°)	569.0	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°	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5
2.5°	1336.6	1331.6	1326.5	1324.6	1323.9	1320.0	1313.1	1301.9	1278.5	1255.1	1237.4
5°	1407.2	1401.4	1395.6	1389.8	1384.0	1367.1	1339.1	1311.5	1285.2	1258.8	1233.8
7.5°	1472.0	1464.1	1456.2	1435.6	1410.9	1390.0	1372.9	1348.6	1302.8	1257.0	1205.6
10°	1531.2	1523.0	1514.8	1499.4	1481.6	1448.9	1401.3	1350.8	1291.6	1232.4	1166.6
12.5°	1539.4	1524.5	1509.5	1505.8	1505.9	1479.1	1425.3	1368.2	1300.8	1233.4	1140.2
15°	1544.0	1521.8	1499.6	1487.4	1478.4	1456.0	1420.3	1373.9	1295.5	1217.1	1100.8
17.5°	1576.2	1546.0	1515.8	1501.3	1492.1	1469.1	1432.2	1381.1	1287.0	1193.0	1058.1
20°	1587.0	1569.8	1552.6	1526.5	1497.6	1462.9	1422.4	1366.1	1262.2	1158.4	1004.6
22.5°	1601.1	1580.0	1558.8	1527.5	1492.8	1454.1	1411.5	1351.2	1237.9	1124.7	950.0
25°	1613.3	1596.9	1580.5	1540.7	1493.1	1443.4	1391.6	1324.2	1210.0	1095.8	900.4
27.5°	1619.9	1602.8	1585.8	1535.0	1473.0	1413.8	1357.4	1286.1	1169.6	1053.1	843.3
30°	1630.4	1607.0	1583.6	1522.8	1449.6	1384.5	1327.6	1255.7	1138.7	1021.7	794.4
32.5°	1648.4	1618.6	1588.9	1521.4	1441.2	1365.4	1294.0	1211.5	1095.5	979.5	751.1
35°	1658.3	1626.8	1595.3	1523.8	1438.8	1356.8	1277.7	1186.1	1057.2	928.3	695.2
37.5°	1702.4	1657.0	1611.6	1523.0	1420.1	1322.1	1228.9	1128.0	1003.7	879.5	641.6
40°	1756.3	1701.5	1646.6	1537.6	1410.4	1296.3	1195.0	1087.1	959.1	831.0	590.2
42.5°	1775.6	1727.1	1678.5	1559.7	1417.4	1284.9	1162.2	1038.8	913.2	787.6	547.4
45°	1864.0	1791.8	1719.5	1582.7	1424.2	1279.9	1149.6	1018.0	882.4	746.7	506.2
47.5°	1862.0	1797.3	1732.6	1592.4	1427.1	1272.5	1128.8	984.6	838.8	693.0	466.0
50°	1856.8	1799.2	1741.7	1596.7	1422.6	1255.2	1094.4	937.5	792.5	647.4	433.7
52.5°	1888.2	1815.8	1743.4	1593.1	1416.8	1249.4	1090.9	930.7	765.5	600.3	402.2
55°	1897.6	1826.2	1754.7	1594.2	1404.0	1230.1	1072.3	909.2	729.9	550.6	370.7
57.5°	1904.4	1835.2	1765.9	1592.7	1384.7	1204.9	1053.3	891.0	696.3	501.6	339.8
60°	1919.8	1848.3	1776.9	1596.1	1379.0	1190.8	1031.5	860.8	655.7	450.5	307.6
62.5°	1914.9	1850.8	1786.7	1604.6	1383.1	1186.7	1015.3	832.1	613.5	394.9	272.7
65°	1890.9	1833.0	1775.1	1594.2	1372.2	1175.2	1003.3	814.4	574.7	335.1	234.9
67.5°	1875.0	1819.1	1763.2	1573.6	1339.5	1138.5	970.6	782.2	532.1	282.1	200.5
70°	1857.0	1796.7	1736.5	1544.5	1308.6	1107.2	940.3	750.2	490.6	230.9	166.7
72.5°	1816.9	1764.2	1711.5	1516.9	1275.1	1067.9	895.2	701.2	442.9	184.7	136.0
75°	1777.2	1721.2	1665.2	1473.8	1237.4	1030.8	854.1	657.5	401.4	145.3	110.3
77.5°	1735.1	1678.4	1621.7	1432.6	1199.5	990.6	806.1	606.1	360.0	113.9	89.3
80°	1686.2	1626.3	1566.5	1379.0	1148.9	940.3	753.1	554.7	323.0	91.4	73.5
82.5°	1636.7	1575.3	1514.0	1327.8	1100.0	890.0	697.7	500.4	288.1	75.8	62.3
85°	1592.0	1532.3	1472.7	1285.0	1054.7	840.1	641.3	444.6	254.3	64.0	53.7
87.5°	1532.9	1469.7	1406.6	1222.6	998.4	786.1	585.7	392.9	222.9	52.9	46.2
90°	1470.3	1406.7	1343.2	1163.1	944.1	734.4	533.9	345.8	195.0	44.2	40.3
92.5°	1392.1	1331.5	1270.8	1097.5	886.5	680.0	477.9	294.4	167.0	39.5	37.0
95°	1347.2	1276.2	1205.2	1032.4	825.5	623.2	425.4	250.4	143.7	37.0	34.9
97.5°	1253.0	1191.5	1130.1	964.6	764.5	568.7	377.3	211.8	123.7	35.6	33.7
100°	1172.1	1107.6	1043.1	886.3	698.6	514.2	333.2	179.4	107.4	35.4	33.1
102.5°	1086.5	1026.1	965.7	816.4	637.5	463.0	293.1	151.2	93.4	35.6	32.8
105°	1002.5	941.3	880.0	738.5	570.2	408.8	254.3	127.0	81.5	35.9	32.5
107.5°	915.1	855.9	796.7	663.0	504.5	356.8	219.8	108.1	72.0	35.9	32.1
110°	827.2	765.7	704.3	578.5	431.3	300.6	186.3	93.3	64.5	35.7	31.5



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CATALOG NUMBER: WPMLED15S-40W_SWITCH-3000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	730.8	669.3	607.9	492.7	359.6	247.5	156.6	82.4	58.7	35.0	30.8
115°	626.6	568.0	509.4	407.7	291.6	198.6	128.7	71.6	52.8	34.1	29.8
117.5°	512.7	463.4	414.1	332.4	240.0	164.9	107.2	60.5	46.8	33.1	28.7
120°	391.6	355.9	320.1	261.5	195.3	138.2	90.4	51.9	41.8	31.6	27.5
122.5°	296.2	274.7	253.2	211.9	164.0	119.6	78.7	46.0	37.9	29.7	26.2
125°	234.7	222.7	210.8	178.8	140.3	103.6	68.7	41.0	34.5	27.9	24.9
127.5°	192.8	185.2	177.7	151.8	119.7	88.9	59.4	36.0	31.2	26.3	23.8
130°	159.4	154.5	149.6	127.0	98.6	72.7	49.4	31.1	27.9	24.7	22.8
132.5°	134.0	130.9	127.7	107.1	80.8	58.6	40.7	26.8	25.0	23.3	22.0
135°	114.2	110.5	106.8	88.7	65.9	47.6	34.1	23.7	22.9	22.1	21.2
137.5°	92.7	88.6	84.5	70.4	52.8	39.0	28.9	21.3	21.1	20.9	20.4
140°	72.4	69.1	65.9	55.1	42.0	31.9	24.8	19.6	19.7	19.8	19.6
142.5°	53.7	52.1	50.4	42.7	32.8	25.9	21.9	18.9	18.7	18.6	18.7
145°	39.3	38.2	37.0	32.1	25.9	22.0	20.3	18.8	18.0	17.3	18.0
147.5°	31.2	30.3	29.4	25.9	21.5	19.3	19.1	18.8	17.7	16.7	17.7
150°	25.7	24.8	23.9	21.5	18.5	17.5	18.4	18.9	17.9	16.9	17.9
152.5°	21.7	21.0	20.3	19.1	17.7	17.3	17.8	18.0	17.6	17.1	18.1
155°	18.6	18.0	17.3	17.1	17.2	17.2	17.3	17.3	17.3	17.3	18.2
157.5°	16.4	16.5	16.6	17.3	18.3	18.4	17.8	17.3	17.4	17.5	18.4
160°	17.0	17.2	17.4	18.0	18.7	18.7	18.0	17.5	17.6	17.7	18.5
162.5°	19.4	19.3	19.2	19.1	19.0	18.7	18.1	17.6	17.8	17.9	18.7
165°	19.9	19.7	19.4	18.9	18.2	17.9	17.8	17.8	18.0	18.1	18.8
167.5°	19.4	19.1	18.7	18.3	18.0	17.9	17.9	18.0	18.1	18.3	18.9
170°	18.3	18.2	18.1	18.1	18.1	18.1	18.2	18.3	18.3	18.4	19.0
172.5°	18.7	18.6	18.4	18.4	18.4	18.4	18.4	18.5	18.5	18.5	19.0
175°	19.1	19.0	18.8	18.8	18.8	18.8	18.7	18.7	18.6	18.6	19.1
177.5°	19.5	19.4	19.3	19.2	19.2	19.1	18.9	18.8	18.8	18.8	19.1
180°	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5
2.5°	1219.6	1209.5	1202.0	1193.8	1185.1	1179.8	1185.1	1190.3
5°	1208.8	1177.4	1143.9	1113.8	1087.0	1065.8	1061.6	1057.3
7.5°	1154.2	1102.1	1049.7	1006.7	973.1	944.6	931.4	918.3
10°	1100.8	1030.8	959.5	898.1	846.5	803.1	784.4	765.6
12.5°	1047.0	954.1	861.3	780.0	710.2	653.4	635.6	617.8
15°	984.5	868.8	753.4	657.7	581.7	519.7	499.2	478.8
17.5°	923.2	789.1	655.3	546.8	463.8	394.5	366.8	339.0
20°	850.9	703.9	559.1	439.4	344.9	267.1	239.1	211.1
22.5°	775.4	616.3	462.4	341.4	253.3	184.0	171.3	158.6
25°	705.0	534.4	372.1	260.9	201.0	154.6	149.0	143.3
27.5°	633.4	461.7	302.7	205.7	170.9	143.8	140.2	136.5
30°	567.0	401.6	256.9	174.2	153.3	137.1	134.7	132.2
32.5°	522.7	365.7	232.5	158.6	144.1	133.1	132.5	131.8
35°	462.0	319.7	207.5	146.6	137.1	129.7	129.2	128.6
37.5°	403.7	276.6	186.5	137.5	129.8	123.6	121.8	119.9
40°	349.3	237.1	167.8	129.2	121.1	114.4	111.5	108.7
42.5°	307.3	206.7	152.6	121.0	111.7	104.0	100.8	97.6
45°	265.6	176.3	137.3	112.9	103.0	94.7	91.0	87.2
47.5°	239.0	157.9	125.5	104.2	94.0	85.5	82.0	78.6
50°	220.0	144.5	115.1	95.3	85.0	77.1	76.2	75.2
52.5°	204.2	133.6	105.4	86.5	76.6	69.7	71.4	73.0
55°	190.9	124.7	96.4	77.7	68.7	62.6	64.9	67.3
57.5°	178.0	116.2	87.7	69.4	61.5	55.7	56.7	57.7
60°	164.7	107.7	79.4	61.6	54.4	48.9	48.1	47.4
62.5°	150.5	99.1	71.3	54.0	47.2	41.6	39.8	37.9
65°	134.7	89.7	63.1	45.9	38.2	32.0	30.2	28.5
67.5°	118.9	79.8	54.8	37.2	27.1	19.0	16.8	14.5
70°	102.5	69.4	46.6	30.6	21.5	14.7	14.8	14.9
72.5°	87.3	59.6	39.0	25.7	19.6	15.1	15.3	15.4
75°	75.3	53.0	35.0	23.7	19.0	15.5	15.7	15.9
77.5°	64.7	47.1	31.9	22.4	18.7	16.0	16.2	16.4
80°	55.7	41.6	28.7	20.9	18.3	16.5	16.7	16.9
82.5°	48.8	37.3	26.3	20.0	18.2	16.9	17.2	17.5
85°	43.4	33.9	24.7	19.5	18.3	17.4	17.7	18.0
87.5°	39.5	31.8	23.7	19.3	18.4	17.9	18.2	18.5
90°	36.4	30.1	23.0	19.1	18.6	18.3	18.7	19.0
92.5°	34.4	29.0	22.5	19.2	18.9	18.8	19.1	19.5
95°	32.9	28.0	22.2	19.2	19.2	19.2	19.6	20.0
97.5°	31.7	27.2	21.9	19.3	19.4	19.6	20.0	20.4
100°	30.8	26.6	21.7	19.4	19.7	20.0	20.4	20.8
102.5°	30.0	25.9	21.5	19.5	20.0	20.4	20.8	21.2
105°	29.2	25.3	21.3	19.6	20.2	20.8	21.2	21.6
107.5°	28.3	24.7	21.2	19.8	20.5	21.2	21.6	22.0
110°	27.4	24.1	21.1	20.1	20.8	21.5	21.9	22.4



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 CATALOG NUMBER: WPMLED15S-40W_SWITCH-3000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	26.5	23.5	21.1	20.3	21.1	21.9	22.3	22.7
115°	25.4	22.9	21.0	20.5	21.4	22.2	22.6	23.1
117.5°	24.4	22.3	20.9	20.7	21.7	22.6	23.0	23.4
120°	23.5	21.8	20.9	20.9	22.0	22.9	23.3	23.7
122.5°	22.7	21.4	20.8	21.1	22.2	23.2	23.6	24.0
125°	22.0	21.1	20.9	21.4	22.5	23.4	23.8	24.2
127.5°	21.4	20.9	20.9	21.6	22.7	23.7	24.0	24.4
130°	21.0	20.7	21.0	21.7	22.9	23.9	24.2	24.6
132.5°	20.6	20.6	21.1	21.9	23.1	24.1	24.4	24.8
135°	20.3	20.6	21.2	22.1	23.2	24.2	24.5	24.9
137.5°	20.0	20.5	21.3	22.2	23.3	24.3	24.6	24.9
140°	19.5	20.2	21.3	22.3	23.4	24.3	24.6	25.0
142.5°	18.9	20.0	21.2	22.4	23.4	24.3	24.6	24.9
145°	18.7	19.9	21.3	22.4	23.4	24.2	24.5	24.8
147.5°	18.8	20.0	21.3	22.4	23.3	24.1	24.4	24.7
150°	18.9	20.1	21.3	22.4	23.2	23.9	24.2	24.5
152.5°	19.0	20.2	21.3	22.3	23.1	23.7	24.0	24.2
155°	19.2	20.2	21.3	22.2	22.9	23.5	23.7	23.9
157.5°	19.3	20.2	21.2	22.0	22.7	23.2	23.4	23.6
160°	19.3	20.2	21.1	21.9	22.5	22.9	23.1	23.3
162.5°	19.4	20.2	21.0	21.7	22.2	22.6	22.8	22.9
165°	19.5	20.2	20.9	21.5	22.0	22.3	22.4	22.5
167.5°	19.5	20.1	20.8	21.3	21.7	22.0	22.1	22.1
170°	19.5	20.1	20.6	21.1	21.4	21.6	21.7	21.7
172.5°	19.5	20.0	20.5	20.8	21.1	21.3	21.3	21.3
175°	19.5	19.9	20.3	20.6	20.8	20.9	20.9	20.9
177.5°	19.4	19.8	20.1	20.3	20.5	20.6	20.5	20.4
180°	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6

(END OF REPORT)