

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: P511364

Luminaire Tested: **WPMLED15S-30W_SWITCH-5000K**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511364
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-30W_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: 4175 lumens
Efficiency: N/A
Efficacy: 143.0 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 - U3 - G3

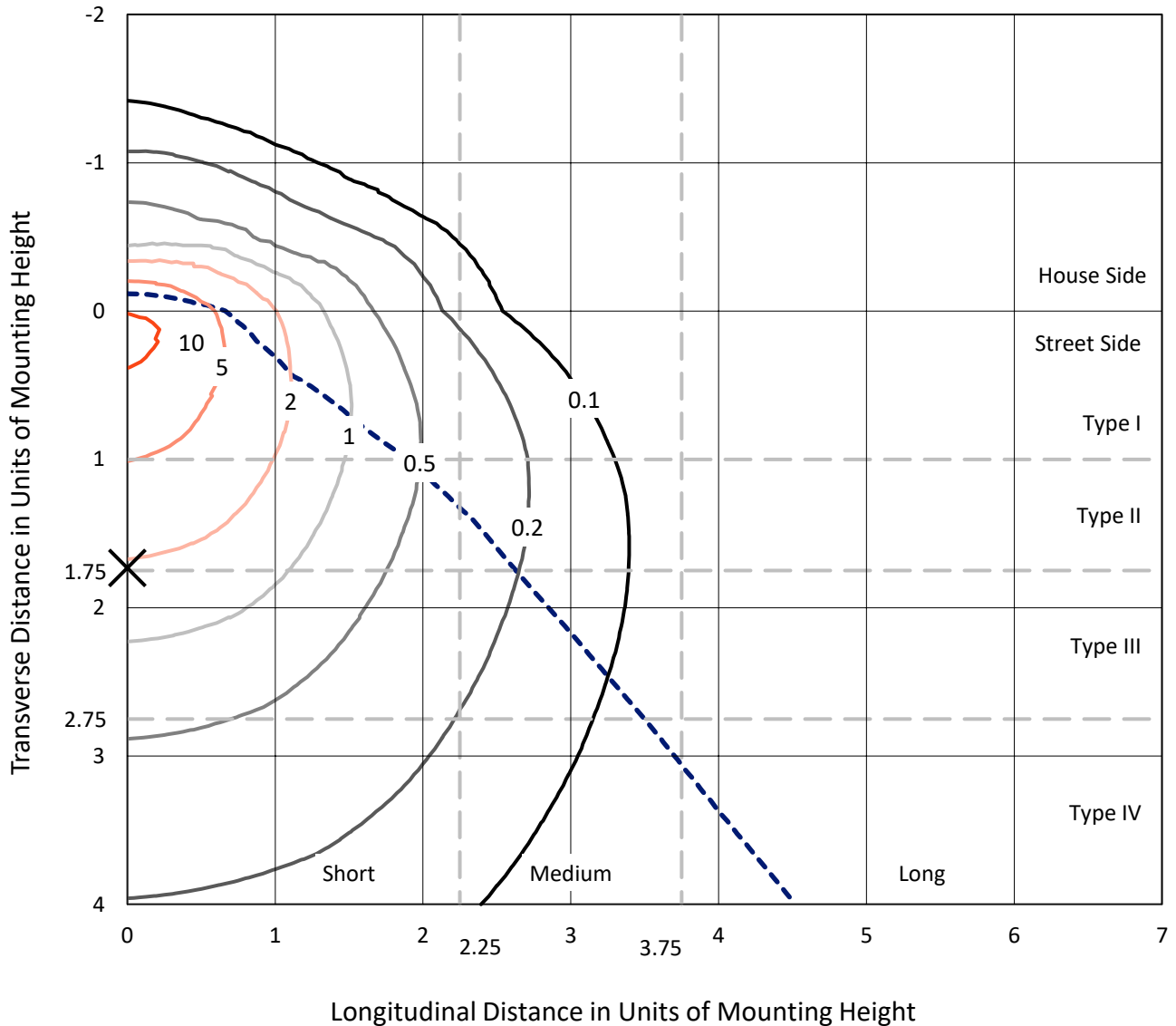
Input Watts (W): 29.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

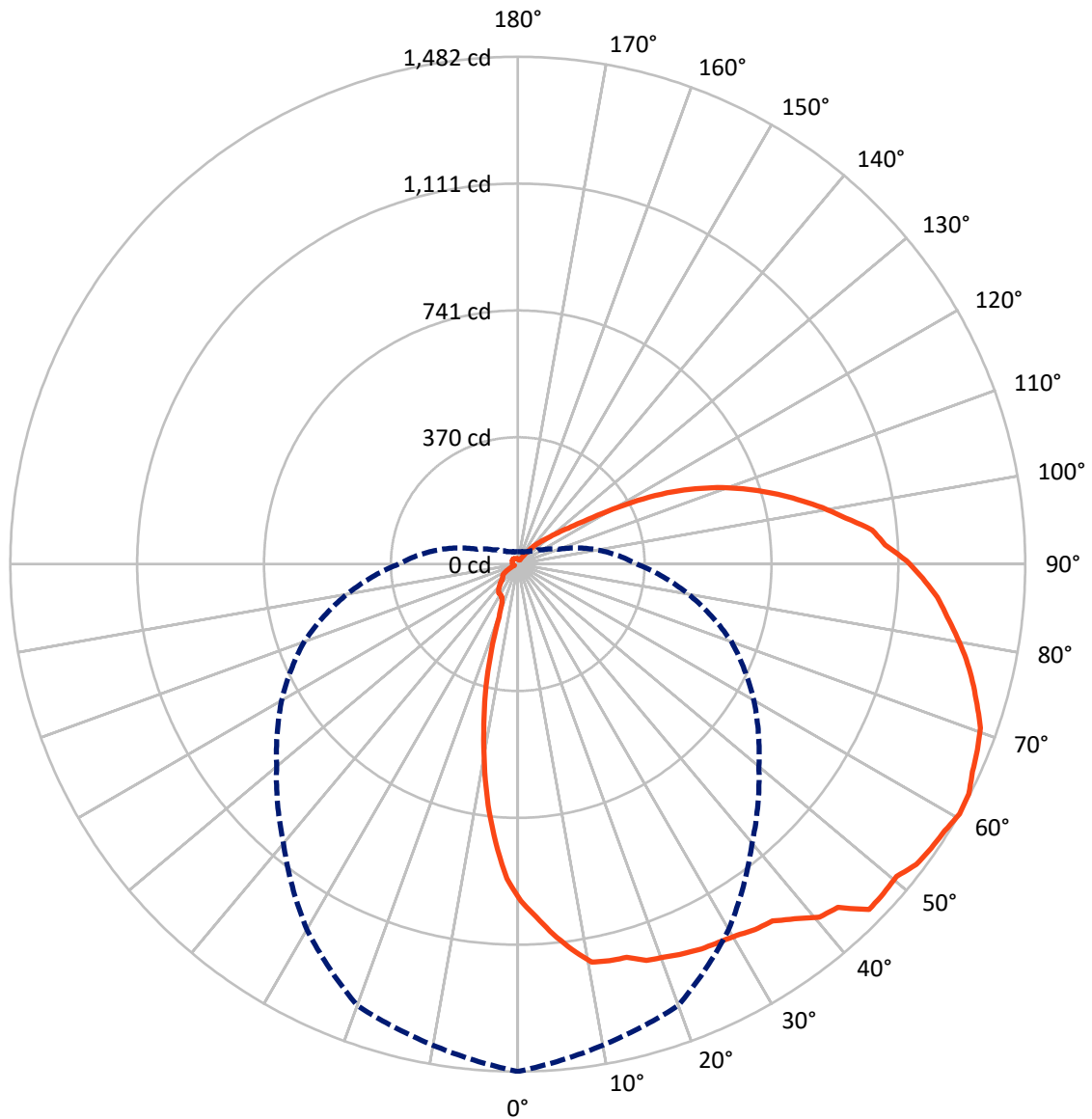
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11 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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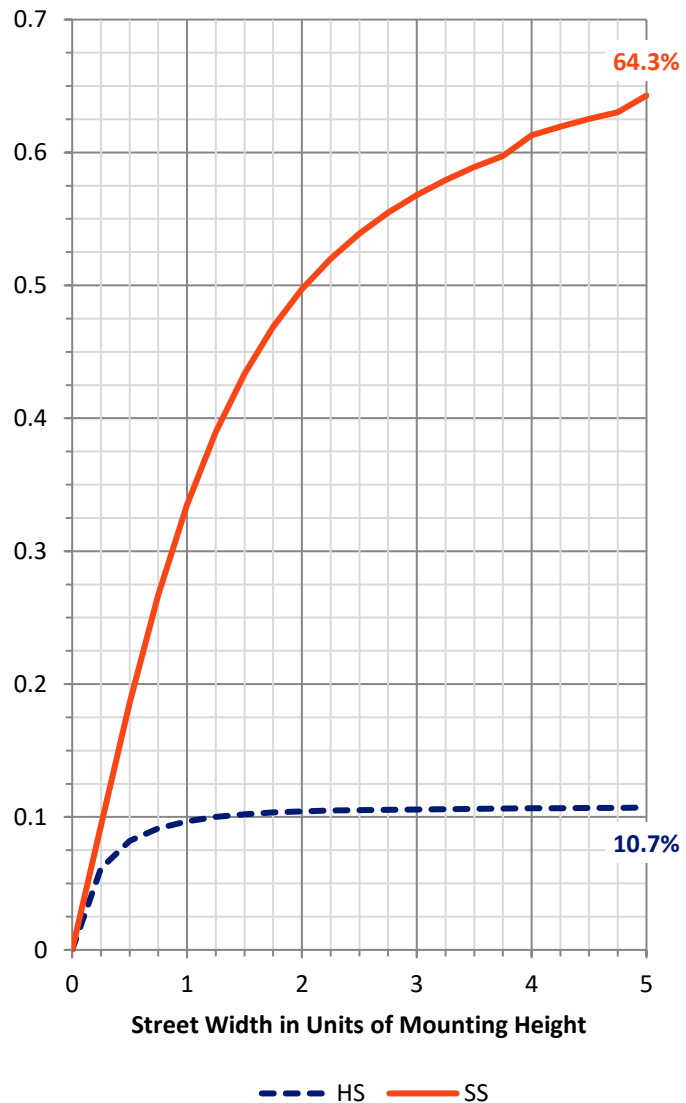
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	456.8	56.3	513.1
	% Fixture	10.9	1.3	12.3
Street Side	Lumens	2966.3	695.6	3661.9
	% Fixture	71.1	16.7	87.7
Total	Lumens	3423.2	751.8	4175.0
	% Fixture	82.0	18.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	2.2
10°-20°	238.6	5.7
20°-30°	333.2	8.0
30°-40°	405.8	9.7
40°-50°	464.3	11.1
50°-60°	503.6	12.1
60°-70°	512.6	12.3
70°-80°	472.7	11.3
80°-90°	402.0	9.6
90°-100°	312.7	7.5
100°-110°	215.5	5.2
110°-120°	119.6	2.9
120°-130°	53.2	1.3
130°-140°	25.9	0.6
140°-150°	12.2	0.3
150°-160°	7.1	0.2
160°-170°	4.3	0.1
170°-180°	1.4	0.0
0°-90°	3423.2	82.0
0°-180°	4175.0	100.0



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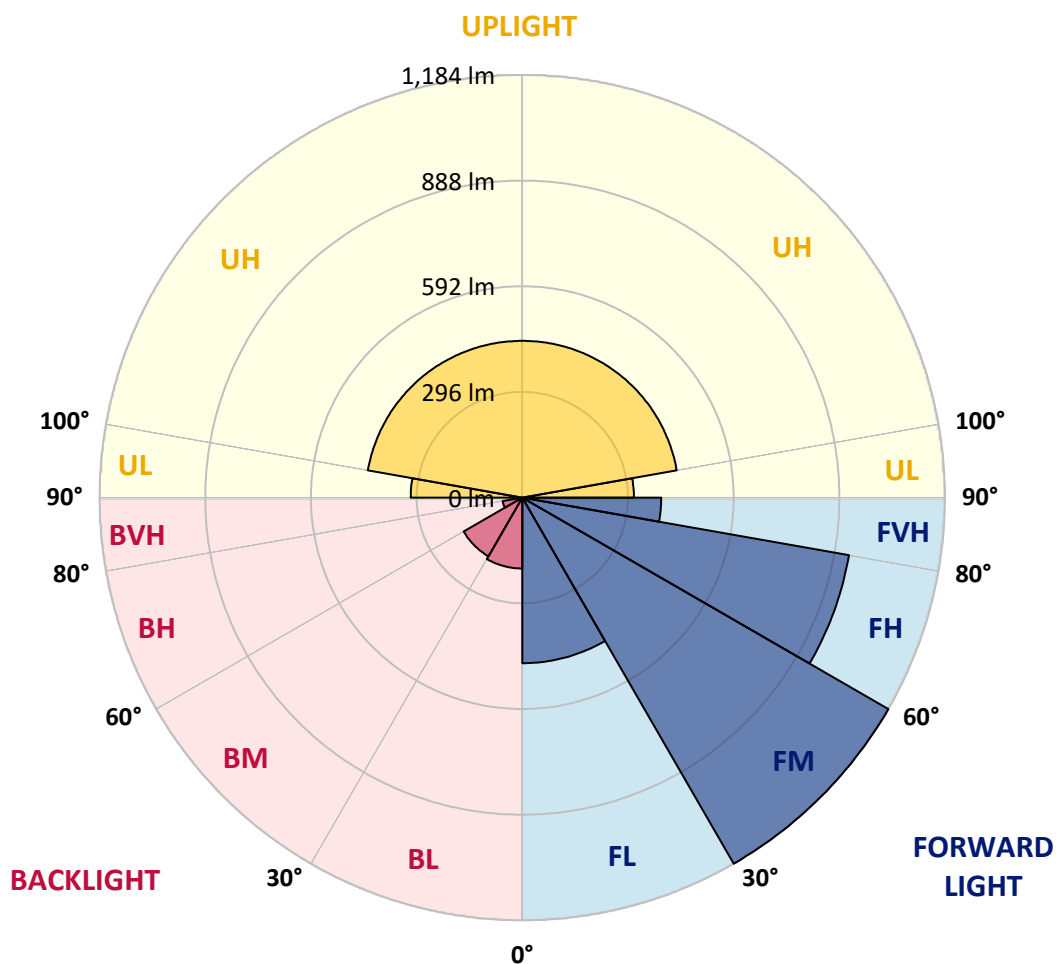
CATALOG NUMBER: WPMLED15S-30W_SWITCH-5000K

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	463.8	11.1			
FM (30°-60°)	1184.1	28.4			
FH (60°-80°)	929.3	22.3			G1/1800
FVH (80°-90°)	389.2	9.3			G3/500
BL (0°-30°)	198.6	4.8	B1/500		
BM (30°-60°)	189.6	4.5	B0/220		
BH (60°-80°)	55.9	1.3	B0/110		G0/110
BVH (80°-90°)	12.8	0.3			G1/100
UL (90°-100°)	312.7	7.5		U3/500	
UH (100°-180°)	439.2	10.5		U3/500	

BUG Rating: B1-U3-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0
2.5°	1031.7	1027.8	1023.8	1022.4	1021.9	1018.9	1013.5	1004.9	986.8	968.8	955.1
5°	1086.2	1081.7	1077.2	1072.7	1068.2	1055.2	1033.6	1012.3	992.0	971.6	952.3
7.5°	1136.2	1130.1	1124.0	1108.1	1089.0	1072.9	1059.7	1040.9	1005.6	970.3	930.6
10°	1181.9	1175.6	1169.3	1157.4	1143.6	1118.3	1081.6	1042.6	996.9	951.3	900.5
12.5°	1188.2	1176.7	1165.1	1162.3	1162.3	1141.6	1100.2	1056.1	1004.0	952.0	880.1
15°	1191.7	1174.6	1157.5	1148.0	1141.1	1123.9	1096.3	1060.5	999.9	939.4	849.6
17.5°	1216.6	1193.3	1170.0	1158.8	1151.7	1133.9	1105.5	1066.0	993.4	920.8	816.7
20°	1224.9	1211.6	1198.4	1178.3	1155.9	1129.1	1097.9	1054.4	974.2	894.1	775.4
22.5°	1235.9	1219.5	1203.2	1179.0	1152.2	1122.4	1089.5	1043.0	955.5	868.1	733.3
25°	1245.2	1232.6	1219.9	1189.2	1152.5	1114.1	1074.1	1022.1	933.9	845.8	695.0
27.5°	1250.3	1237.2	1224.0	1184.8	1136.9	1091.3	1047.8	992.7	902.8	812.8	650.9
30°	1258.4	1240.4	1222.3	1175.4	1118.9	1068.7	1024.8	969.2	878.9	788.6	613.1
32.5°	1272.3	1249.4	1226.4	1174.3	1112.4	1053.9	998.8	935.1	845.5	756.0	579.7
35°	1280.0	1255.7	1231.4	1176.1	1110.6	1047.3	986.2	915.5	816.0	716.5	536.6
37.5°	1314.0	1279.0	1243.9	1175.6	1096.1	1020.5	948.6	870.6	774.7	678.8	495.2
40°	1355.6	1313.3	1271.0	1186.8	1088.7	1000.5	922.4	839.1	740.3	641.5	455.5
42.5°	1370.5	1333.1	1295.6	1203.8	1094.0	991.7	897.1	801.8	704.9	607.9	422.6
45°	1438.7	1383.0	1327.3	1221.6	1099.3	987.9	887.4	785.8	681.1	576.4	390.7
47.5°	1437.2	1387.3	1337.4	1229.1	1101.5	982.2	871.3	760.0	647.4	534.9	359.7
50°	1433.2	1388.7	1344.3	1232.4	1098.1	968.8	844.7	723.7	611.7	499.7	334.8
52.5°	1457.4	1401.5	1345.6	1229.6	1093.6	964.4	842.0	718.4	590.9	463.3	310.5
55°	1464.7	1409.5	1354.4	1230.5	1083.7	949.5	827.7	701.8	563.4	425.0	286.2
57.5°	1469.9	1416.5	1363.1	1229.3	1068.8	930.0	813.0	687.7	537.4	387.2	262.3
60°	1481.8	1426.7	1371.5	1232.0	1064.4	919.1	796.2	664.4	506.1	347.8	237.5
62.5°	1478.1	1428.6	1379.1	1238.5	1067.6	916.0	783.7	642.3	473.5	304.8	210.5
65°	1459.5	1414.8	1370.2	1230.5	1059.1	907.1	774.4	628.6	443.6	258.6	181.3
67.5°	1447.2	1404.1	1360.9	1214.6	1033.9	878.8	749.2	603.7	410.7	217.7	154.7
70°	1433.3	1386.8	1340.3	1192.1	1010.1	854.6	725.8	579.1	378.6	178.2	128.7
72.5°	1402.4	1361.7	1321.0	1170.9	984.2	824.2	691.0	541.2	341.9	142.5	105.0
75°	1371.8	1328.5	1285.3	1137.6	955.1	795.6	659.2	507.5	309.9	112.2	85.2
77.5°	1339.2	1295.5	1251.7	1105.8	925.8	764.6	622.2	467.9	277.9	87.9	68.9
80°	1301.5	1255.3	1209.1	1064.4	886.8	725.8	581.3	428.2	249.3	70.5	56.7
82.5°	1263.3	1215.9	1168.6	1024.9	849.0	686.9	538.5	386.3	222.4	58.5	48.1
85°	1228.8	1182.7	1136.7	991.9	814.1	648.4	495.0	343.2	196.3	49.4	41.4
87.5°	1183.2	1134.4	1085.7	943.7	770.6	606.7	452.1	303.3	172.1	40.8	35.7
90°	1134.8	1085.8	1036.7	897.7	728.7	566.8	412.1	266.9	150.5	34.1	31.1
92.5°	1074.5	1027.7	980.9	847.1	684.3	524.9	368.9	227.2	128.9	30.5	28.5
95°	1039.9	985.1	930.3	796.8	637.2	481.0	328.3	193.2	110.9	28.5	27.0
97.5°	967.1	919.7	872.3	744.5	590.1	439.0	291.2	163.5	95.5	27.5	26.0
100°	904.7	854.9	805.2	684.1	539.2	396.9	257.2	138.5	82.9	27.3	25.6
102.5°	838.6	792.0	745.4	630.2	492.0	357.4	226.2	116.7	72.1	27.5	25.3
105°	773.8	726.5	679.3	570.0	440.2	315.6	196.3	98.1	62.9	27.7	25.1
107.5°	706.3	660.6	615.0	511.8	389.4	275.4	169.7	83.4	55.6	27.7	24.8
110°	638.5	591.0	543.6	446.5	332.9	232.0	143.8	72.0	49.8	27.5	24.3



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CATALOG NUMBER: WPMLED15S-30W_SWITCH-5000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	564.1	516.6	469.2	380.3	277.5	191.1	120.8	63.6	45.3	27.1	23.7
115°	483.7	438.4	393.2	314.7	225.1	153.3	99.3	55.2	40.8	26.4	23.0
117.5°	395.7	357.7	319.6	256.6	185.2	127.3	82.8	46.7	36.1	25.5	22.2
120°	302.3	274.7	247.1	201.8	150.7	106.7	69.8	40.1	32.2	24.4	21.3
122.5°	228.6	212.0	195.4	163.5	126.6	92.3	60.8	35.5	29.2	22.9	20.2
125°	181.1	171.9	162.7	138.0	108.3	79.9	53.1	31.6	26.6	21.6	19.3
127.5°	148.8	143.0	137.2	117.1	92.4	68.6	45.8	27.8	24.1	20.3	18.4
130°	123.0	119.2	115.5	98.0	76.1	56.1	38.1	24.0	21.5	19.1	17.6
132.5°	103.5	101.0	98.5	82.7	62.4	45.3	31.4	20.7	19.3	18.0	16.9
135°	88.2	85.3	82.4	68.5	50.8	36.8	26.3	18.3	17.6	17.0	16.4
137.5°	71.5	68.4	65.2	54.3	40.8	30.1	22.3	16.5	16.3	16.1	15.8
140°	55.9	53.4	50.8	42.6	32.4	24.6	19.2	15.1	15.2	15.3	15.2
142.5°	41.5	40.2	38.9	32.9	25.3	20.0	16.9	14.6	14.5	14.3	14.5
145°	30.3	29.5	28.6	24.8	20.0	17.0	15.7	14.5	13.9	13.3	13.9
147.5°	24.1	23.4	22.7	20.0	16.6	14.9	14.8	14.5	13.7	12.9	13.7
150°	19.8	19.1	18.5	16.6	14.3	13.5	14.2	14.6	13.8	13.0	13.8
152.5°	16.8	16.2	15.7	14.8	13.7	13.3	13.7	13.9	13.6	13.2	14.0
155°	14.4	13.9	13.4	13.2	13.2	13.3	13.3	13.4	13.4	13.4	14.1
157.5°	12.7	12.7	12.8	13.4	14.1	14.2	13.7	13.3	13.4	13.5	14.2
160°	13.1	13.3	13.4	13.9	14.4	14.4	13.9	13.5	13.6	13.7	14.3
162.5°	14.9	14.9	14.8	14.7	14.7	14.4	13.9	13.6	13.7	13.8	14.4
165°	15.4	15.2	15.0	14.6	14.1	13.8	13.8	13.8	13.9	14.0	14.5
167.5°	15.0	14.7	14.4	14.1	13.9	13.8	13.8	13.9	14.0	14.1	14.6
170°	14.1	14.0	13.9	13.9	14.0	14.0	14.0	14.1	14.1	14.2	14.6
172.5°	14.4	14.3	14.2	14.2	14.2	14.2	14.2	14.2	14.3	14.3	14.7
175°	14.7	14.6	14.5	14.5	14.5	14.5	14.4	14.4	14.4	14.4	14.7
177.5°	15.0	15.0	14.9	14.8	14.8	14.7	14.6	14.5	14.5	14.5	14.7
180°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0
2.5°	941.4	933.6	927.8	921.5	914.7	910.7	914.7	918.8
5°	933.0	908.8	883.0	859.7	839.0	822.7	819.4	816.1
7.5°	890.9	850.6	810.2	777.0	751.1	729.1	718.9	708.8
10°	849.6	795.7	740.6	693.2	653.3	619.9	605.4	591.0
12.5°	808.2	736.4	664.8	602.0	548.2	504.3	490.6	476.8
15°	759.9	670.6	581.5	507.6	449.0	401.1	385.3	369.5
17.5°	712.5	609.1	505.8	422.1	358.0	304.5	283.1	261.7
20°	656.8	543.3	431.5	339.2	266.3	206.2	184.6	163.0
22.5°	598.5	475.7	356.9	263.5	195.5	142.0	132.2	122.4
25°	544.2	412.5	287.2	201.4	155.1	119.3	115.0	110.6
27.5°	488.9	356.4	233.6	158.8	131.9	111.0	108.2	105.3
30°	437.7	310.0	198.3	134.4	118.3	105.8	103.9	102.1
32.5°	403.4	282.3	179.5	122.5	111.2	102.7	102.2	101.8
35°	356.6	246.7	160.2	113.2	105.8	100.1	99.7	99.3
37.5°	311.6	213.5	143.9	106.2	100.2	95.4	94.0	92.6
40°	269.6	183.0	129.5	99.7	93.5	88.3	86.1	83.9
42.5°	237.2	159.5	117.8	93.4	86.2	80.3	77.8	75.4
45°	205.0	136.0	106.0	87.1	79.5	73.1	70.2	67.3
47.5°	184.5	121.9	96.9	80.4	72.5	66.0	63.3	60.6
50°	169.8	111.5	88.8	73.5	65.6	59.5	58.8	58.0
52.5°	157.6	103.1	81.4	66.7	59.2	53.8	55.1	56.4
55°	147.3	96.2	74.4	60.0	53.0	48.3	50.1	52.0
57.5°	137.4	89.7	67.7	53.6	47.4	43.0	43.8	44.6
60°	127.2	83.2	61.3	47.6	42.0	37.7	37.1	36.6
62.5°	116.2	76.5	55.0	41.7	36.4	32.1	30.7	29.3
65°	104.0	69.2	48.7	35.4	29.5	24.7	23.3	22.0
67.5°	91.8	61.6	42.3	28.7	20.9	14.7	12.9	11.2
70°	79.1	53.5	36.0	23.6	16.6	11.3	11.4	11.5
72.5°	67.4	46.0	30.1	19.8	15.1	11.6	11.8	11.9
75°	58.1	40.9	27.0	18.3	14.7	12.0	12.1	12.3
77.5°	50.0	36.4	24.6	17.3	14.4	12.3	12.5	12.7
80°	43.0	32.1	22.1	16.2	14.2	12.7	12.9	13.1
82.5°	37.7	28.8	20.3	15.4	14.0	13.1	13.3	13.5
85°	33.5	26.2	19.1	15.1	14.1	13.4	13.6	13.9
87.5°	30.5	24.5	18.3	14.9	14.2	13.8	14.0	14.3
90°	28.1	23.2	17.7	14.8	14.4	14.1	14.4	14.7
92.5°	26.6	22.3	17.4	14.8	14.6	14.5	14.8	15.1
95°	25.4	21.6	17.1	14.8	14.8	14.8	15.1	15.4
97.5°	24.5	21.0	16.9	14.9	15.0	15.1	15.4	15.8
100°	23.8	20.5	16.7	15.0	15.2	15.4	15.8	16.1
102.5°	23.1	20.0	16.6	15.0	15.4	15.7	16.1	16.4
105°	22.5	19.6	16.5	15.1	15.6	16.0	16.4	16.7
107.5°	21.8	19.1	16.4	15.3	15.8	16.3	16.7	17.0
110°	21.1	18.6	16.3	15.5	16.1	16.6	16.9	17.3



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 CATALOG NUMBER: WPMLED15S-30W_SWITCH-5000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	20.4	18.2	16.3	15.6	16.3	16.9	17.2	17.5
115°	19.6	17.7	16.2	15.8	16.5	17.2	17.5	17.8
117.5°	18.8	17.2	16.1	16.0	16.8	17.4	17.7	18.1
120°	18.1	16.8	16.1	16.2	17.0	17.7	18.0	18.3
122.5°	17.5	16.5	16.1	16.3	17.2	17.9	18.2	18.5
125°	16.9	16.3	16.1	16.5	17.4	18.1	18.4	18.7
127.5°	16.5	16.1	16.2	16.6	17.5	18.3	18.6	18.8
130°	16.2	16.0	16.2	16.8	17.7	18.4	18.7	19.0
132.5°	15.9	15.9	16.3	16.9	17.8	18.6	18.8	19.1
135°	15.7	15.9	16.4	17.1	17.9	18.7	18.9	19.2
137.5°	15.4	15.8	16.4	17.2	18.0	18.7	19.0	19.2
140°	15.0	15.6	16.4	17.2	18.1	18.7	19.0	19.3
142.5°	14.6	15.4	16.4	17.3	18.1	18.7	19.0	19.2
145°	14.4	15.4	16.4	17.3	18.1	18.7	18.9	19.2
147.5°	14.5	15.4	16.5	17.3	18.0	18.6	18.8	19.0
150°	14.6	15.5	16.5	17.3	17.9	18.5	18.7	18.9
152.5°	14.7	15.6	16.5	17.2	17.8	18.3	18.5	18.7
155°	14.8	15.6	16.4	17.1	17.7	18.1	18.3	18.5
157.5°	14.9	15.6	16.4	17.0	17.5	17.9	18.1	18.2
160°	14.9	15.6	16.3	16.9	17.3	17.7	17.8	18.0
162.5°	15.0	15.6	16.2	16.8	17.2	17.5	17.6	17.7
165°	15.0	15.6	16.2	16.6	17.0	17.2	17.3	17.4
167.5°	15.1	15.5	16.0	16.4	16.7	17.0	17.0	17.1
170°	15.1	15.5	15.9	16.3	16.5	16.7	16.7	16.8
172.5°	15.1	15.4	15.8	16.1	16.3	16.4	16.4	16.4
175°	15.0	15.4	15.7	15.9	16.0	16.2	16.1	16.1
177.5°	15.0	15.3	15.5	15.7	15.8	15.9	15.8	15.7
180°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4

(END OF REPORT)