

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: McGRAW-EDISON

Report Number: P385827

Luminaire Tested: **GWC-SA1B-830-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385827  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-SA1B-830-U-SL3  
Description: GALLEON WALL LUMINAIRE  
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4851 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

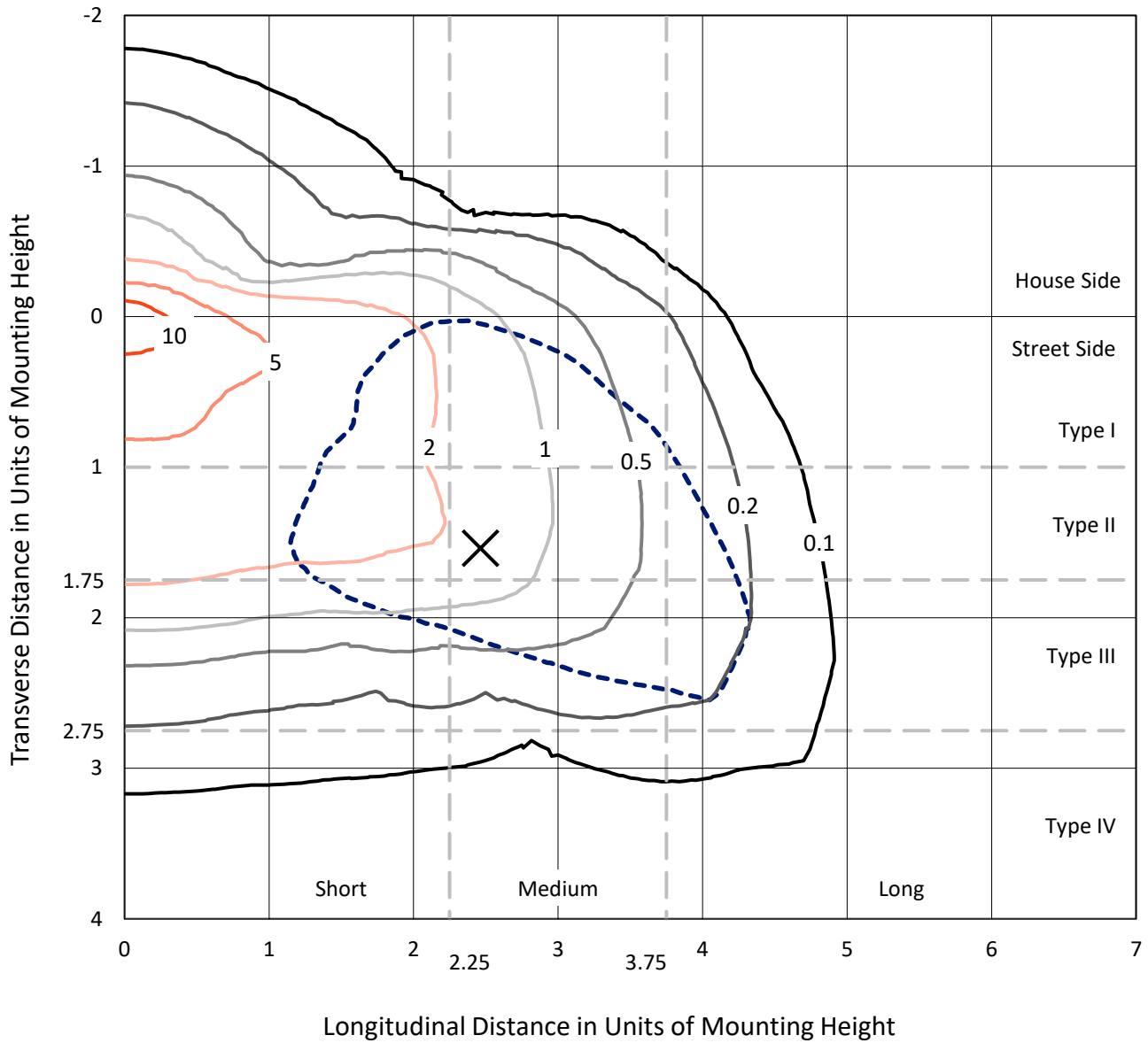
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

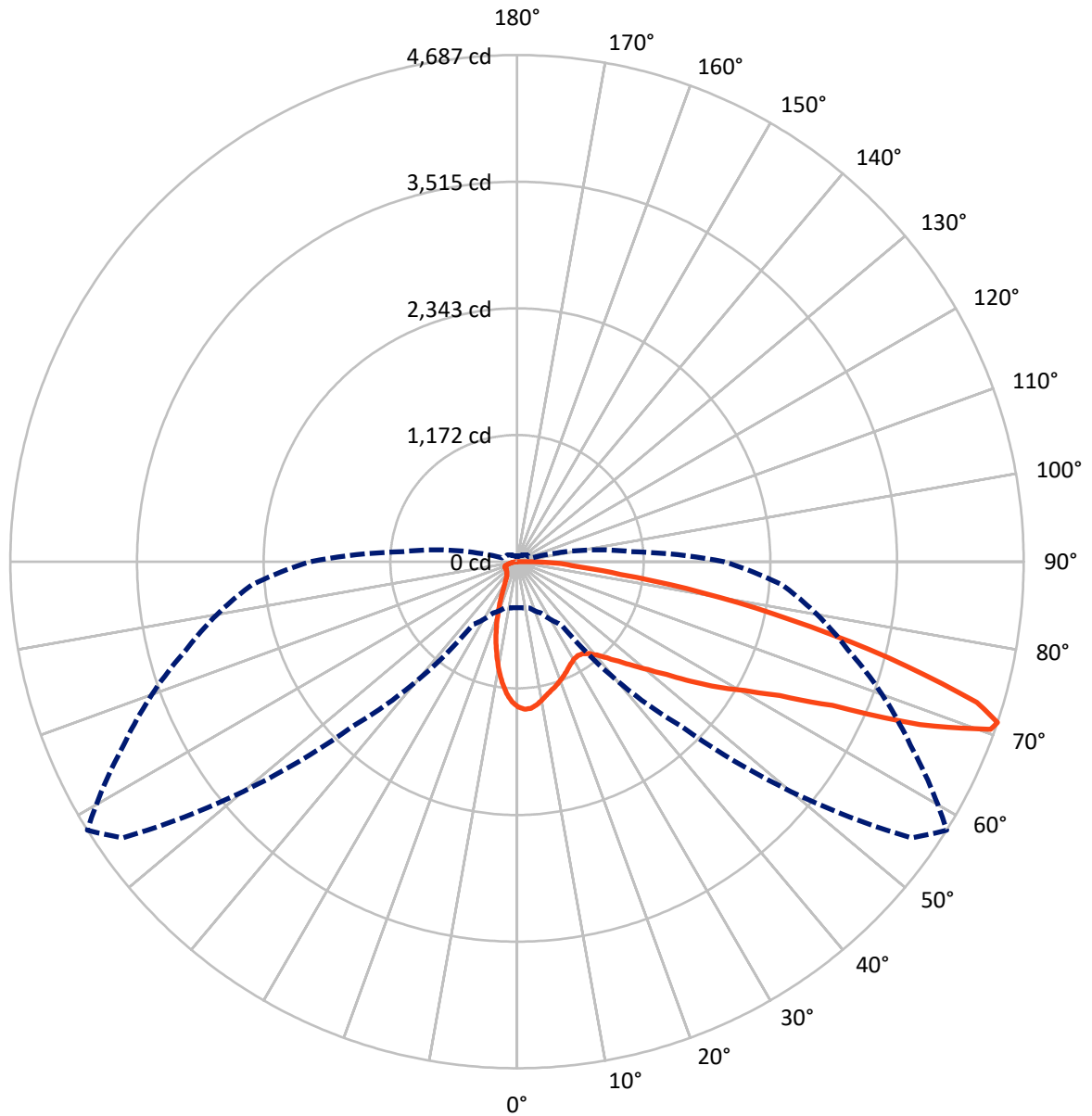
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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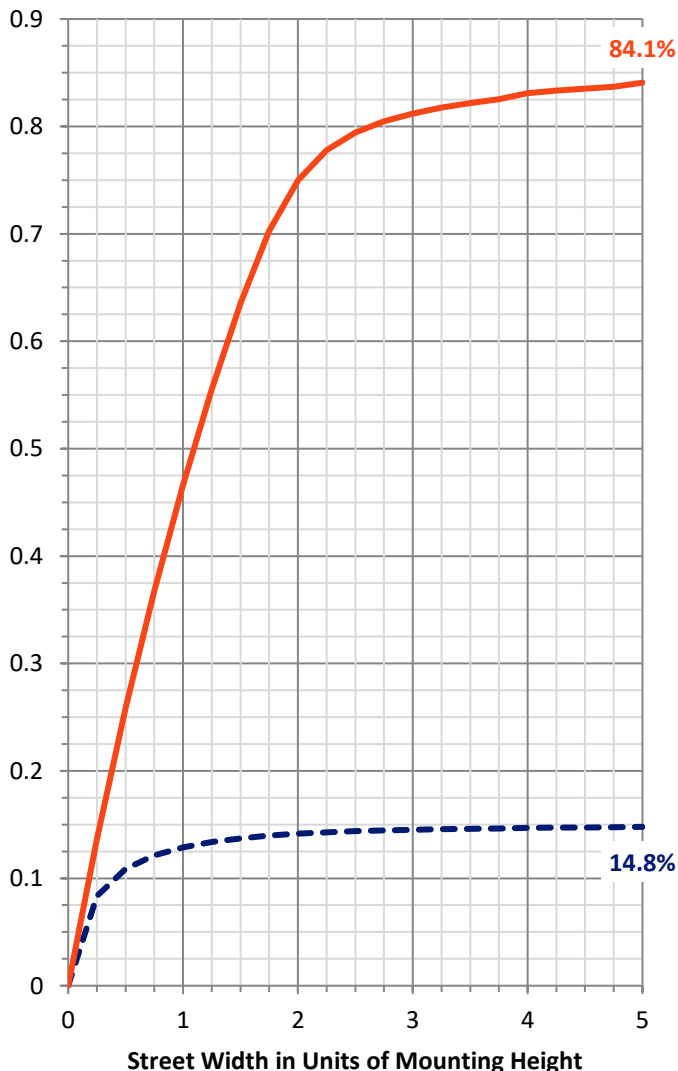
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	725.3	0.0	725.3
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	4125.7	0.0	4125.7
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	4851.0	0.0	4851.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.0	2.4
10°-20°	257.8	5.3
20°-30°	327.7	6.8
30°-40°	417.4	8.6
40°-50°	591.9	12.2
50°-60°	916.0	18.9
60°-70°	1247.0	25.7
70°-80°	831.9	17.1
80°-90°	145.4	3.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4851.0	100.0
0°-180°	4851.0	100.0

**Coefficient of Utilization**



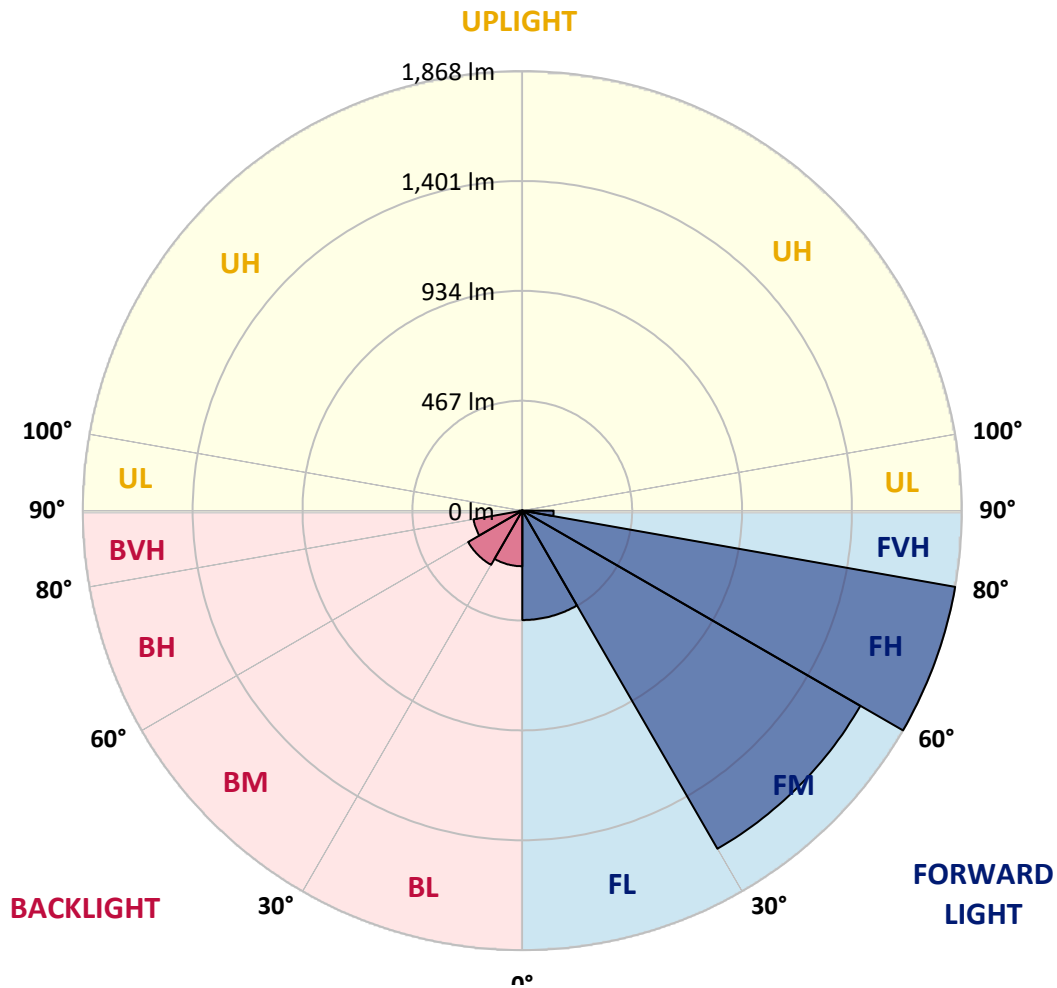
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	465.0	9.6			
FM (30°-60°)	1659.3	34.2			
FH (60°-80°)	1868.1	38.5			G2/5000
FVH (80°-90°)	133.4	2.7			G2/225
BL (0°-30°)	236.4	4.9	B1/500		
BM (30°-60°)	266.0	5.5	B1/1000		
BH (60°-80°)	210.8	4.3	B1/500		G1/500
BVH (80°-90°)	12.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1344.1	1344.1	1344.1	1344.1	1344.1	1344.1	1344.1	1344.1	1344.1	1344.1	1344.1
2.5°	1379.7	1377.8	1378.5	1377.2	1374.0	1370.7	1366.0	1366.9	1360.3	1350.5	1338.3
5°	1353.7	1353.0	1358.1	1360.9	1363.3	1361.5	1360.1	1361.8	1352.2	1338.6	1317.5
7.5°	1299.1	1291.7	1298.1	1307.7	1316.8	1323.8	1332.9	1334.1	1328.0	1313.8	1286.1
10°	1221.5	1214.4	1223.9	1238.9	1257.2	1273.8	1292.2	1295.6	1296.7	1283.9	1250.3
12.5°	1141.1	1135.7	1145.2	1166.3	1196.5	1222.0	1251.5	1256.5	1267.0	1258.4	1217.1
15°	1069.1	1067.1	1078.6	1099.4	1134.2	1173.2	1215.6	1224.9	1242.7	1239.8	1191.3
17.5°	1006.9	1006.4	1015.2	1037.0	1075.5	1124.9	1180.0	1195.7	1222.0	1225.4	1170.0
20°	960.6	959.6	965.7	981.8	1021.5	1077.4	1141.4	1163.1	1201.1	1212.9	1148.0
22.5°	935.8	935.6	935.8	943.4	975.8	1027.9	1103.9	1130.3	1180.6	1203.0	1123.7
25°	931.6	931.1	927.4	926.5	944.9	986.5	1066.8	1095.8	1161.2	1196.0	1100.6
27.5°	942.6	943.2	938.3	930.4	934.1	959.3	1034.5	1065.6	1145.7	1194.7	1084.5
30°	965.4	965.0	960.8	952.5	945.3	949.1	1011.5	1042.6	1135.2	1200.6	1073.5
32.5°	990.5	992.4	991.6	987.0	976.2	960.6	1004.6	1035.0	1132.2	1214.8	1068.8
35°	1020.8	1022.8	1028.9	1032.5	1019.8	994.8	1019.4	1045.8	1140.9	1241.5	1076.4
37.5°	1049.5	1054.8	1071.8	1086.9	1076.1	1048.2	1059.0	1077.7	1168.1	1283.6	1096.8
40°	1082.6	1087.2	1115.1	1147.0	1145.3	1116.4	1122.7	1135.2	1216.1	1343.9	1133.8
42.5°	1115.3	1124.4	1164.8	1210.1	1223.1	1197.5	1207.5	1214.1	1283.7	1423.8	1198.4
45°	1158.7	1168.5	1224.6	1279.2	1309.6	1295.2	1311.1	1313.6	1368.7	1532.6	1292.2
47.5°	1224.4	1235.6	1301.0	1358.2	1404.7	1406.2	1432.4	1431.4	1474.8	1657.2	1410.3
50°	1326.8	1342.9	1396.4	1450.0	1506.4	1537.9	1572.8	1567.9	1602.1	1789.8	1546.3
52.5°	1461.0	1468.4	1508.1	1547.7	1617.8	1688.3	1738.4	1734.1	1746.4	1926.2	1700.8
55°	1600.1	1605.6	1622.0	1643.6	1737.9	1852.8	1959.0	1952.0	1920.8	2067.8	1853.4
57.5°	1725.1	1736.4	1747.7	1756.7	1858.9	2024.9	2184.5	2185.1	2110.0	2220.5	2011.0
60°	1744.5	1754.5	1829.4	1900.0	2065.9	2254.3	2426.0	2420.9	2305.9	2386.3	2186.7
62.5°	1542.1	1564.6	1689.6	1877.5	2265.3	2674.1	2734.1	2727.8	2540.1	2590.6	2391.4
65°	1105.1	1130.6	1281.5	1563.9	2168.7	3136.6	3290.0	3205.9	2859.4	2841.9	2631.0
67.5°	637.6	643.6	709.0	935.8	1651.3	3160.7	4138.1	4020.3	3355.4	3126.9	2748.3
70°	471.4	471.3	486.8	575.9	893.6	2579.6	4541.5	4647.1	3877.5	3220.7	2582.5
71°	426.3	426.8	444.2	524.2	707.7	2159.2	4455.8	4686.9	4015.1	3174.4	2462.5
72.5°	364.7	366.3	390.5	470.1	595.3	1489.0	4086.7	4447.7	4080.3	3060.2	2274.8
75°	276.6	280.5	314.0	396.3	544.1	755.2	2999.4	3551.6	3624.7	2700.3	1690.3
77.5°	197.4	201.8	239.6	333.2	517.2	569.1	2008.6	2590.6	2667.5	1730.5	762.4
80°	124.7	129.9	158.5	265.1	486.0	540.4	1262.3	1741.3	1454.6	553.7	194.0
82.5°	73.2	77.2	98.3	173.2	396.9	520.5	742.7	965.2	566.1	167.3	88.2
85°	42.4	44.3	61.3	110.3	288.3	491.2	545.6	539.5	245.7	81.8	41.7
87.5°	19.8	22.0	36.3	57.6	160.0	356.0	431.2	372.6	152.8	38.4	19.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1344.1	1344.1	1344.1	1344.1	1344.1	1344.1	1344.1	1344.1	1344.1	1344.1	1344.1
2.5°	1332.4	1329.5	1317.5	1306.9	1295.7	1281.2	1265.1	1263.1	1253.3	1255.2	1251.8
5°	1306.0	1298.8	1269.9	1243.7	1212.8	1185.0	1155.0	1141.1	1121.2	1119.8	1114.7
7.5°	1268.3	1254.8	1210.1	1160.4	1110.7	1063.4	1016.6	985.8	954.4	941.0	939.9
10°	1225.9	1203.0	1137.1	1063.5	991.9	922.8	855.9	806.4	761.8	740.6	739.8
12.5°	1185.7	1151.8	1061.4	961.3	863.3	773.8	682.0	616.9	561.0	542.3	534.3
15°	1151.6	1103.8	987.7	859.8	740.8	616.4	512.0	443.6	391.9	373.9	370.6
17.5°	1118.5	1057.0	912.1	757.2	613.4	476.7	372.1	321.2	293.7	286.4	286.2
20°	1085.5	1008.8	833.2	652.3	490.2	356.5	286.1	263.3	254.0	253.1	251.8
22.5°	1048.2	957.8	750.3	547.0	382.6	280.3	243.2	234.0	232.9	235.9	235.9
25°	1013.2	907.1	666.1	443.9	297.6	233.9	217.1	215.3	218.5	223.9	224.4
27.5°	980.6	858.2	584.0	352.3	238.4	206.0	199.1	201.3	207.0	213.3	213.4
30°	953.7	812.1	504.2	277.6	201.4	185.2	184.0	188.4	194.7	199.6	200.7
32.5°	932.9	772.7	427.2	223.2	177.3	169.7	170.7	174.4	178.3	181.0	182.8
35°	923.3	738.9	356.0	188.2	161.9	157.7	159.0	161.0	162.7	164.8	166.3
37.5°	925.0	712.7	292.5	166.4	151.6	149.4	149.4	149.4	149.4	150.4	150.6
40°	940.7	697.7	240.8	152.6	144.6	142.3	140.4	138.7	137.4	138.1	137.7
42.5°	980.9	696.4	202.9	143.8	139.1	135.2	131.5	129.1	127.4	128.1	128.4
45°	1049.2	713.3	177.4	137.5	133.8	127.9	123.2	120.7	119.5	121.7	122.0
47.5°	1137.6	750.1	161.9	133.0	128.9	121.2	116.1	113.7	114.1	117.3	118.1
50°	1251.5	809.9	154.4	130.1	125.6	115.4	110.2	108.1	109.2	113.7	114.7
52.5°	1376.5	896.1	155.3	129.3	123.4	111.2	105.6	103.2	104.9	109.2	110.0
55°	1520.8	999.7	169.3	130.5	120.1	108.5	101.9	97.8	99.2	103.1	103.8
57.5°	1681.2	1118.3	197.5	130.1	116.1	105.9	98.0	91.9	92.9	95.3	96.0
60°	1848.1	1261.6	241.3	131.1	114.2	102.9	92.8	85.2	84.8	86.9	87.2
62.5°	2048.5	1427.4	291.3	131.8	115.4	99.0	85.8	78.4	77.4	77.9	78.2
65°	2255.0	1547.3	272.6	129.1	119.1	95.8	79.8	71.8	70.0	69.6	69.8
67.5°	2261.4	1418.7	191.1	123.7	120.7	94.1	75.2	66.2	63.2	62.0	61.8
70°	2028.1	1152.6	148.9	117.9	114.6	91.4	71.0	61.7	57.1	55.3	55.1
71°	1914.2	1061.0	141.1	115.1	110.0	88.7	69.1	59.6	54.9	52.9	52.6
72.5°	1735.6	951.2	131.6	110.5	101.2	81.8	65.6	56.8	51.9	49.5	49.0
75°	1245.5	622.0	113.0	98.5	83.8	65.2	57.5	51.0	46.8	43.9	43.6
77.5°	479.9	247.6	85.5	82.0	64.2	51.0	47.3	44.1	41.1	38.2	38.0
80°	148.4	110.7	62.4	61.7	46.5	38.0	36.8	36.0	34.8	31.8	31.1
82.5°	79.3	63.5	42.9	39.9	30.4	25.3	26.7	27.0	27.2	24.0	23.7
85°	37.9	33.6	24.2	22.6	17.7	14.2	16.4	17.7	17.9	14.7	13.7
87.5°	18.1	17.6	11.3	8.6	6.6	4.7	5.7	7.1	7.8	5.6	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245982

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