

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: P386846

Luminaire Tested: **GWC-SA2C-735-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P386846  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-SA2C-735-U-T3-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10106 lumens  
Efficiency: N/A  
Efficacy: 89.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

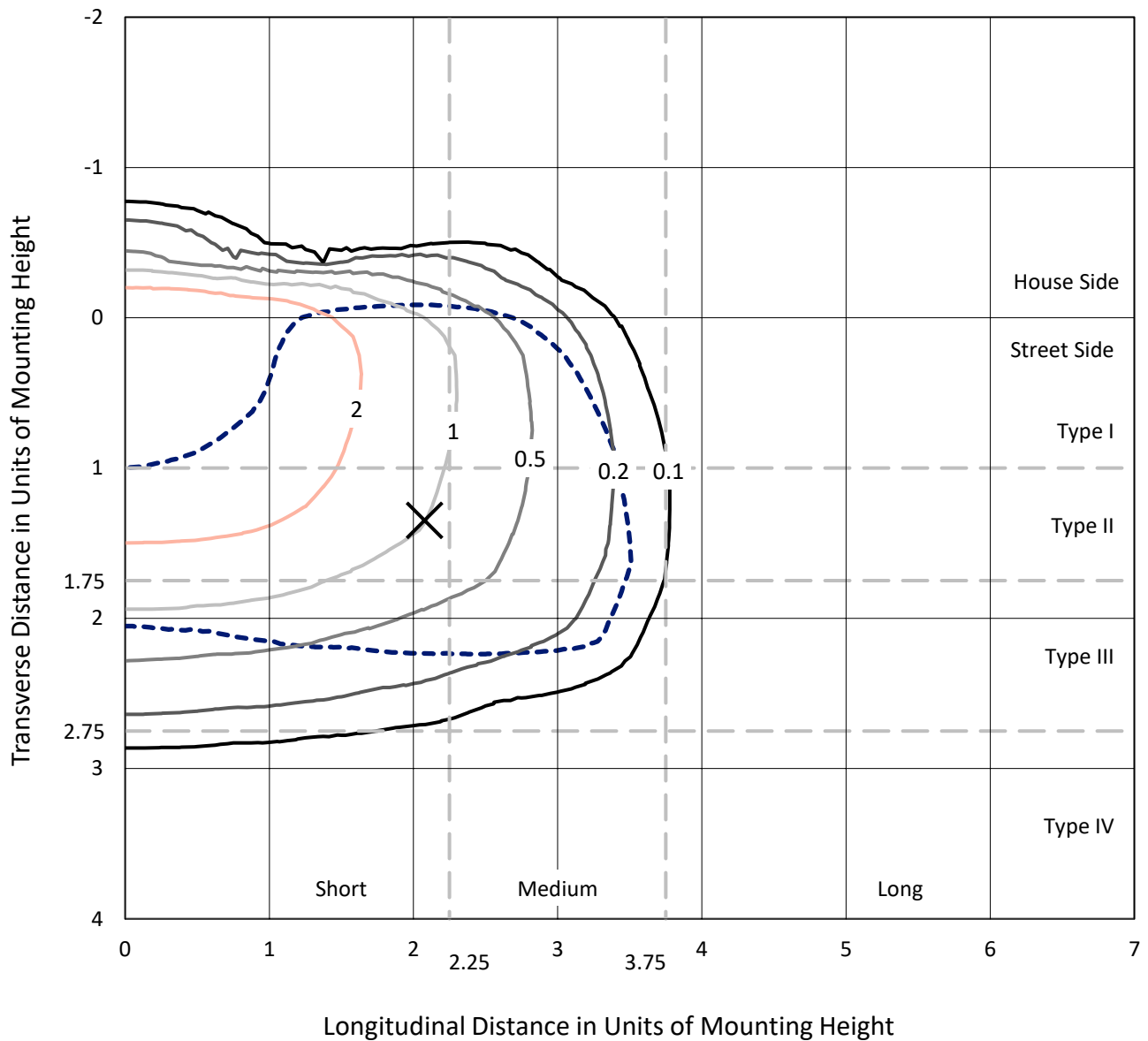
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

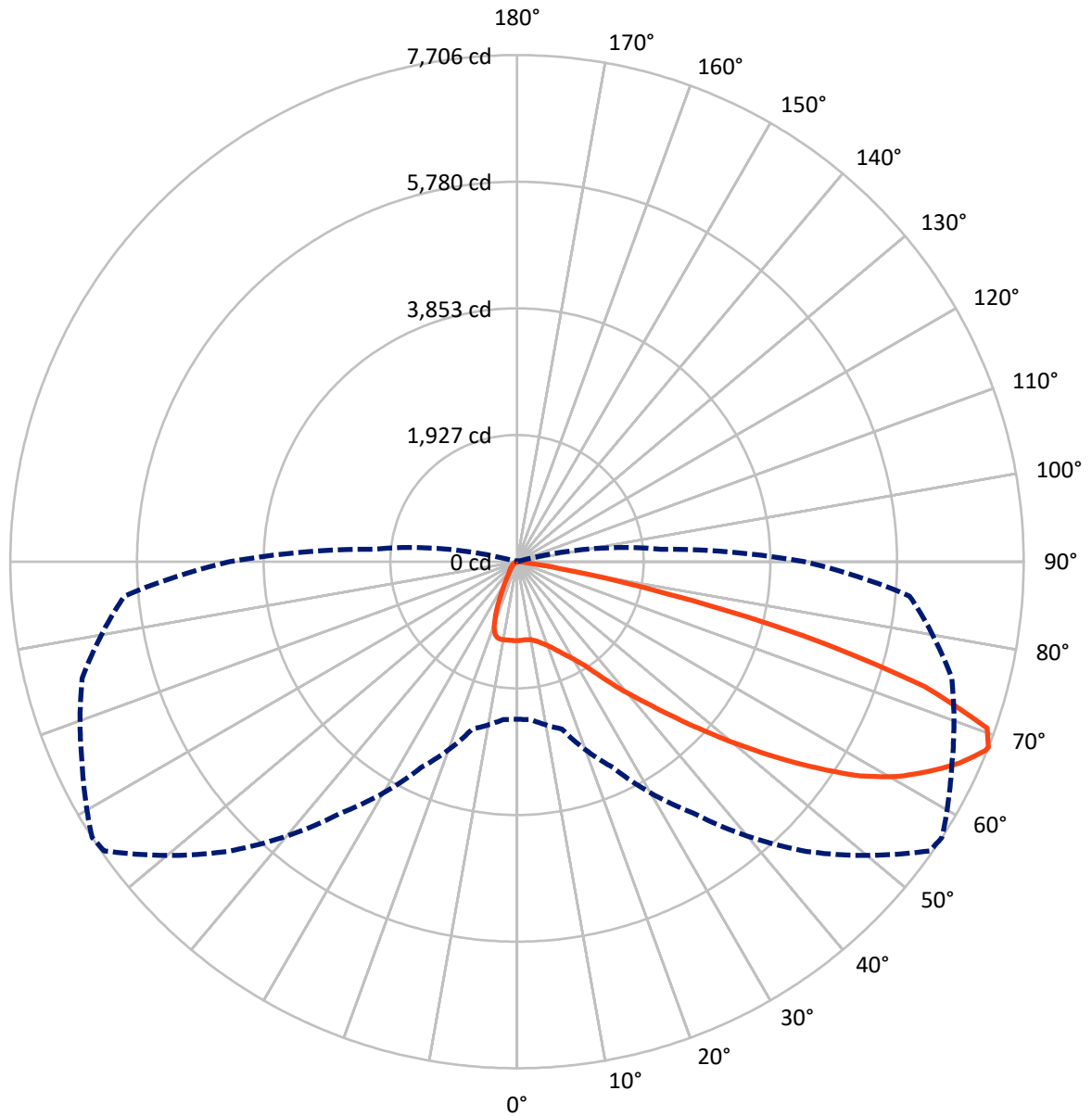
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 68-Deg Vertical



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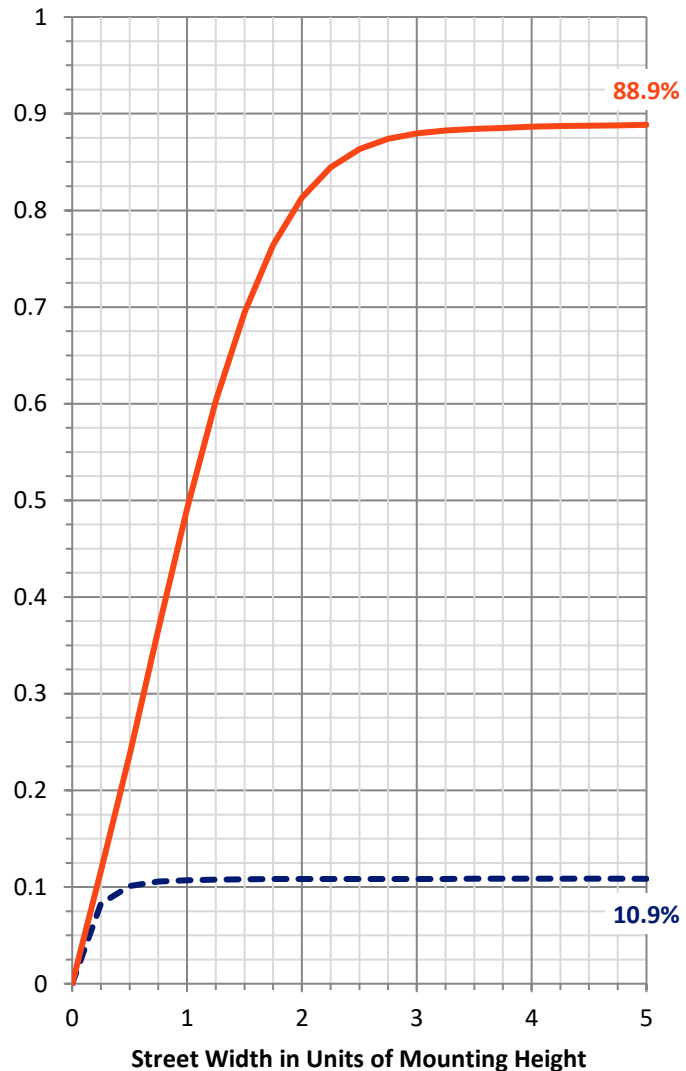
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1108.2	0.0	1108.2
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	8997.8	0.0	8997.8
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	10106.0	0.0	10106.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.4	1.1
10°-20°	311.4	3.1
20°-30°	537.2	5.3
30°-40°	927.2	9.2
40°-50°	1586.1	15.7
50°-60°	2537.5	25.1
60°-70°	2931.8	29.0
70°-80°	1120.3	11.1
80°-90°	42.0	0.4
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°	10106.0	100.0
0°-180°	10106.0	100.0

**Coefficient of Utilization**



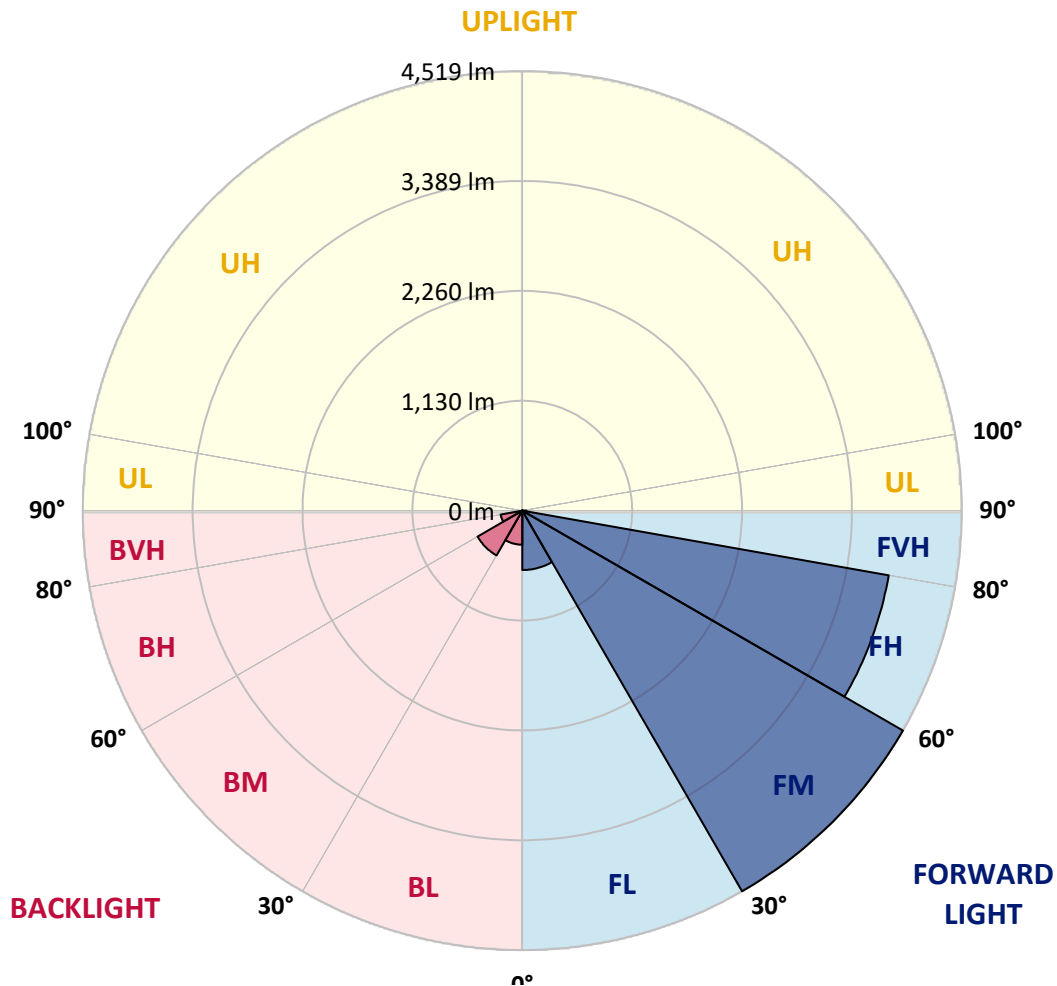
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	610.8	6.0			
FM (30°-60°)	4519.3	44.7			
FH (60°-80°)	3826.5	37.9			G2/5000
FVH (80°-90°)	41.2	0.4			G1/100
BL (0°-30°)	350.2	3.5	B1/500		
BM (30°-60°)	531.5	5.3	B1/1000		
BH (60°-80°)	225.7	2.2	B1/500		G1/500
BVH (80°-90°)	0.8	0.0			G0/10
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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1200.8	1200.8	1200.8	1200.8	1200.8	1200.8	1200.8	1200.8	1200.8	1200.8	1200.8
2.5°	1172.6	1177.9	1181.8	1184.1	1187.0	1193.2	1195.1	1198.0	1199.4	1199.4	1202.8
5°	1126.3	1132.1	1140.1	1146.9	1160.2	1177.4	1189.8	1194.6	1203.3	1210.9	1215.2
7.5°	1083.3	1090.0	1099.6	1115.3	1138.3	1166.0	1191.8	1198.5	1215.2	1231.5	1239.5
10°	1055.6	1060.9	1073.3	1095.7	1125.9	1164.6	1200.8	1209.0	1237.7	1264.9	1280.2
12.5°	1046.0	1050.8	1063.7	1089.0	1126.3	1171.7	1221.9	1233.8	1275.9	1315.5	1337.0
15°	1059.9	1060.9	1074.7	1098.6	1135.4	1189.4	1256.8	1271.1	1324.2	1375.7	1402.5
17.5°	1113.4	1109.1	1116.3	1126.8	1155.9	1212.9	1293.5	1315.1	1385.8	1446.5	1471.8
20°	1247.2	1247.2	1231.0	1202.3	1202.8	1249.1	1343.2	1367.7	1454.1	1524.4	1547.3
22.5°	1476.1	1471.8	1439.3	1369.1	1304.5	1311.7	1403.9	1435.5	1536.3	1611.3	1619.0
25°	1751.3	1746.1	1695.9	1597.0	1485.2	1413.0	1486.1	1522.5	1634.3	1700.7	1684.9
27.5°	2042.8	2038.6	1988.9	1866.0	1706.9	1574.5	1584.1	1618.5	1734.1	1799.6	1749.4
30°	2325.3	2326.7	2277.5	2151.3	1971.1	1780.5	1708.4	1728.4	1831.2	1897.6	1825.9
32.5°	2593.9	2595.7	2553.2	2412.3	2244.0	2019.9	1880.4	1875.1	1943.9	2009.4	1927.2
35°	2833.2	2838.0	2808.9	2699.4	2521.1	2286.6	2103.5	2091.1	2104.1	2178.1	2082.5
37.5°	3064.0	3066.9	3045.0	2952.7	2803.6	2579.5	2385.5	2367.8	2340.0	2397.0	2287.5
40°	3316.8	3309.7	3284.3	3200.7	3072.7	2903.0	2688.5	2657.8	2609.5	2660.3	2557.0
42.5°	3551.9	3543.8	3548.1	3453.5	3345.5	3235.6	3041.6	2989.0	2960.8	3019.1	2887.7
45°	3845.8	3841.5	3855.8	3773.6	3686.2	3606.4	3446.4	3389.0	3376.6	3444.9	3287.7
47.5°	4135.9	4146.4	4190.8	4156.0	4120.6	4050.3	3875.0	3849.2	3856.8	3939.4	3709.6
50°	4377.7	4390.1	4511.9	4552.1	4603.2	4562.1	4386.3	4370.5	4400.6	4475.2	4163.6
52.5°	4552.6	4577.9	4729.4	4914.3	5100.6	5128.3	4953.0	4938.7	4979.3	4990.7	4514.4
55°	4674.0	4696.4	4867.9	5206.3	5585.7	5705.1	5596.3	5540.7	5533.1	5419.8	4883.3
57.5°	4695.5	4693.0	4939.6	5395.0	5966.1	6274.3	6205.4	6151.0	5994.3	5816.5	5306.2
60°	4574.1	4587.9	4874.1	5460.5	6205.0	6704.8	6710.1	6639.4	6395.2	6202.2	5716.1
62.5°	4200.4	4256.8	4545.9	5289.0	6202.2	6878.3	7079.9	7025.9	6734.0	6518.0	6131.9
65°	3594.5	3614.5	3890.2	4701.2	5783.0	6805.6	7413.0	7392.9	7039.3	6824.8	6345.5
67.5°	2624.9	2581.4	2871.0	3702.0	4896.1	6382.2	7651.9	7677.3	7274.9	6887.8	6118.0
68°	2395.5	2408.4	2634.0	3454.9	4663.9	6232.7	7667.7	7706.4	7298.3	6846.8	5993.8
70°	1427.9	1452.7	1653.9	2378.8	3548.1	5386.4	7497.6	7586.0	7158.8	6422.9	5184.3
72.5°	364.6	394.3	584.4	1064.7	2026.6	3795.2	6329.3	6478.8	6215.5	5210.5	3499.8
75°	150.0	157.7	208.8	350.8	755.0	1709.8	4171.8	4491.9	4308.8	3119.4	1581.8
77.5°	103.7	109.0	134.2	194.5	326.8	579.6	2045.2	2276.5	2051.0	1064.7	345.0
80°	74.6	78.8	96.0	129.5	187.8	206.9	666.6	770.8	612.1	233.6	85.6
82.5°	44.4	47.8	71.7	92.2	114.2	98.9	165.8	188.3	177.3	116.1	38.2
85°	22.0	25.8	48.3	65.9	61.6	41.6	50.6	56.4	69.8	70.7	20.6
87.5°	1.4	2.9	28.2	39.6	17.2	9.6	14.8	18.1	24.9	34.9	8.6
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°	1200.8	1200.8	1200.8	1200.8	1200.8	1200.8	1200.8	1200.8	1200.8	1200.8	1200.8
2.5°	1204.2	1204.7	1201.3	1199.9	1200.8	1195.1	1192.7	1193.7	1193.7	1195.1	1192.7
5°	1216.1	1216.1	1210.4	1202.8	1198.5	1187.5	1180.3	1178.4	1177.0	1176.0	1174.1
7.5°	1242.0	1239.1	1229.0	1212.3	1198.0	1174.1	1155.9	1146.3	1141.6	1139.7	1138.3
10°	1283.5	1278.2	1261.5	1230.5	1197.5	1155.0	1115.3	1087.2	1063.7	1054.2	1048.5
12.5°	1339.5	1331.8	1303.6	1252.0	1194.2	1115.8	1029.8	947.1	870.2	838.6	822.9
15°	1403.9	1392.9	1348.5	1270.2	1174.6	1027.4	840.6	695.8	589.2	549.1	531.9
17.5°	1469.4	1455.1	1387.7	1281.6	1115.8	844.4	589.7	445.4	374.2	355.1	348.3
20°	1535.3	1514.3	1421.6	1273.0	983.0	608.8	389.0	325.4	304.8	299.1	297.2
22.5°	1598.0	1565.5	1452.2	1239.5	778.5	408.5	307.7	287.6	281.0	277.6	276.7
25°	1652.4	1607.0	1479.0	1136.4	551.0	308.7	277.1	270.5	261.9	255.6	256.2
27.5°	1703.6	1648.6	1495.2	966.3	367.5	263.8	256.6	247.5	231.7	222.6	222.6
30°	1765.2	1704.1	1507.2	743.5	270.5	233.2	227.4	213.6	192.1	180.2	180.2
32.5°	1857.9	1788.1	1499.6	521.8	224.1	205.0	191.6	172.5	149.1	137.6	137.2
35°	1999.9	1918.1	1445.1	342.1	197.8	178.2	156.7	133.3	112.8	103.2	102.8
37.5°	2190.9	2092.0	1322.7	244.6	177.3	153.4	127.6	101.8	86.5	80.3	79.8
40°	2438.9	2294.2	1147.8	198.3	158.2	129.5	98.4	78.8	68.3	63.6	64.1
42.5°	2736.7	2510.6	938.1	171.1	139.5	106.5	76.9	62.1	55.4	52.0	51.1
45°	3067.4	2724.2	718.3	152.5	120.9	86.0	60.2	49.2	44.0	42.1	42.1
47.5°	3431.0	2932.1	525.7	136.2	100.8	66.4	48.3	40.1	35.9	34.4	33.9
50°	3761.2	3076.4	379.0	119.0	82.7	52.6	39.2	33.4	30.6	28.7	28.7
52.5°	4036.5	3121.9	279.1	100.3	66.9	42.1	32.5	28.7	25.8	24.3	24.3
55°	4278.8	3103.2	207.4	82.7	54.0	34.4	27.7	24.3	22.0	20.6	20.6
57.5°	4511.0	3043.0	154.8	67.4	43.5	27.7	23.4	20.6	18.1	17.2	17.2
60°	4700.7	2942.7	115.2	54.5	34.9	22.5	19.6	16.7	14.8	13.3	13.3
62.5°	4854.6	2831.8	84.5	44.9	27.7	17.7	15.3	13.9	11.0	9.6	9.6
65°	4855.5	2647.8	63.6	37.3	21.5	13.9	11.5	11.0	7.1	5.7	5.3
67.5°	4504.3	2282.7	48.8	32.0	16.7	10.5	8.6	9.1	3.9	2.3	1.9
68°	4376.7	2190.0	45.8	31.6	15.8	10.1	8.1	9.1	3.4	1.9	1.4
70°	3690.0	1742.3	36.8	30.6	13.9	7.6	6.7	9.1	2.9	1.4	0.9
72.5°	2360.1	1011.2	27.2	24.3	10.5	5.7	4.3	8.1	2.9	0.9	0.5
75°	1004.5	313.5	18.6	17.2	6.2	4.3	2.9	5.3	1.9	0.5	0.0
77.5°	211.6	70.7	11.0	10.5	4.3	2.9	1.9	1.4	0.5	0.0	0.0
80°	54.5	20.6	5.7	5.3	2.3	1.4	0.9	0.0	0.0	0.0	0.0
82.5°	17.2	8.1	3.4	2.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.6	4.8	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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