

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: P386473

Luminaire Tested: **GWC-SA2A-827-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P386473  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-SA2A-827-U-SL4  
Description: GALLEON WALL LUMINAIRE  
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6792 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

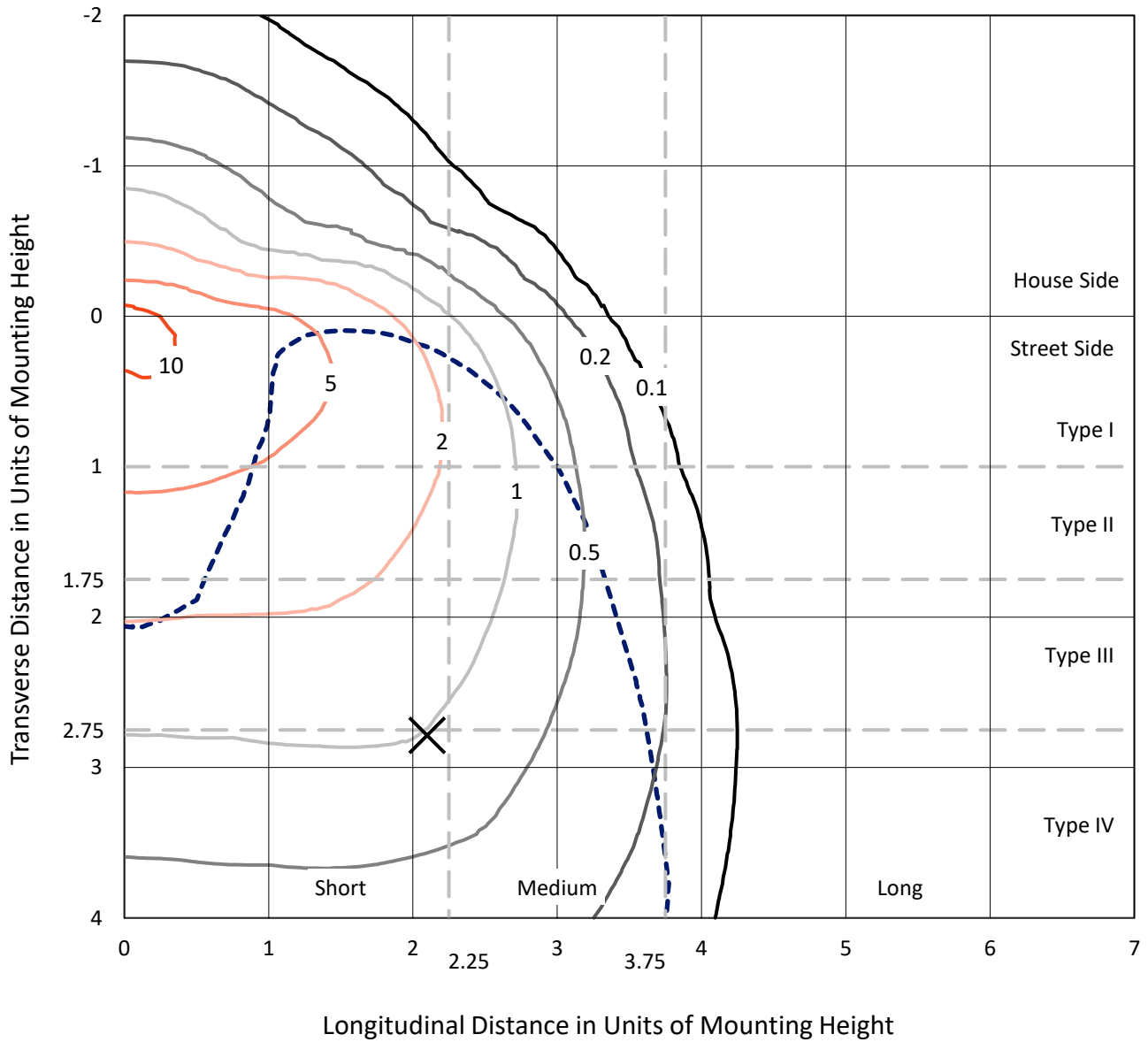
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

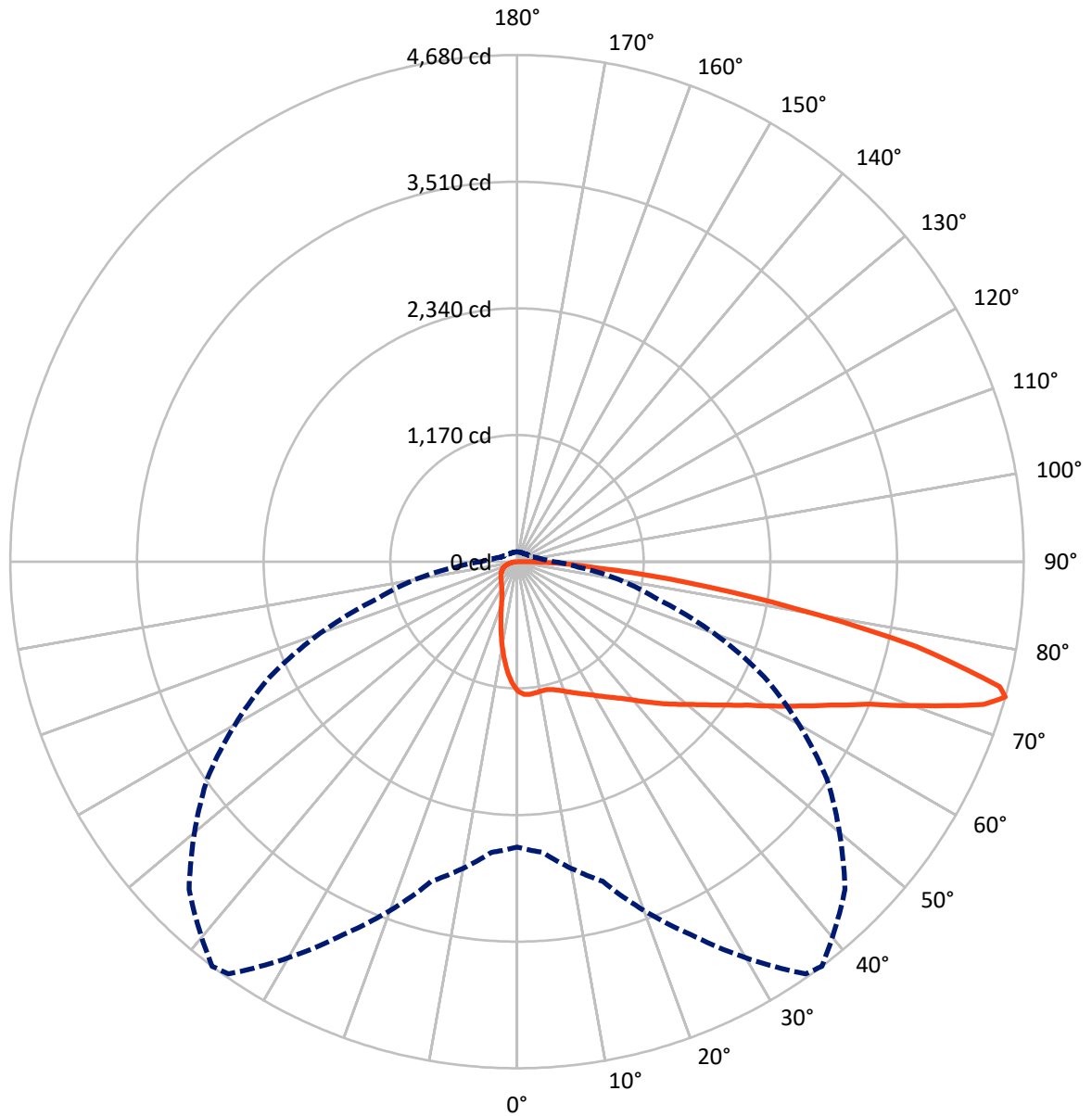
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical

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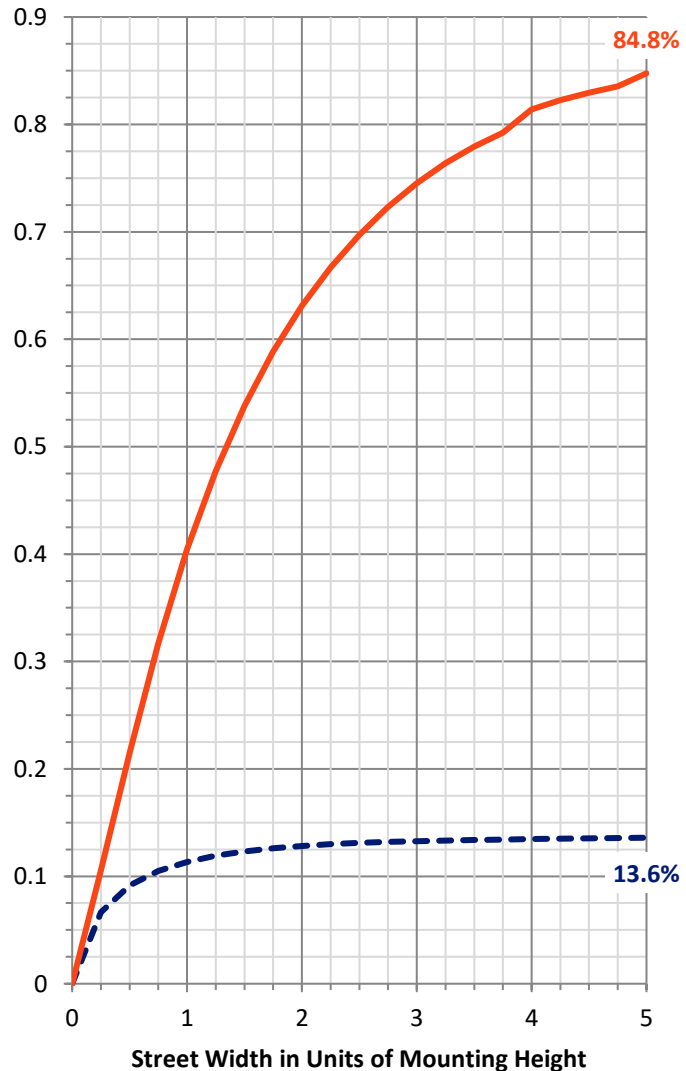
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	934.5	0.0	934.5
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	5857.5	0.0	5857.5
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	6792.0	0.0	6792.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.4	1.6
10°-20°	270.1	4.0
20°-30°	416.2	6.1
30°-40°	605.2	8.9
40°-50°	890.8	13.1
50°-60°	1251.0	18.4
60°-70°	1583.4	23.3
70°-80°	1394.2	20.5
80°-90°	275.7	4.1
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°	6792.0	100.0
0°-180°	6792.0	100.0

**Coefficient of Utilization**



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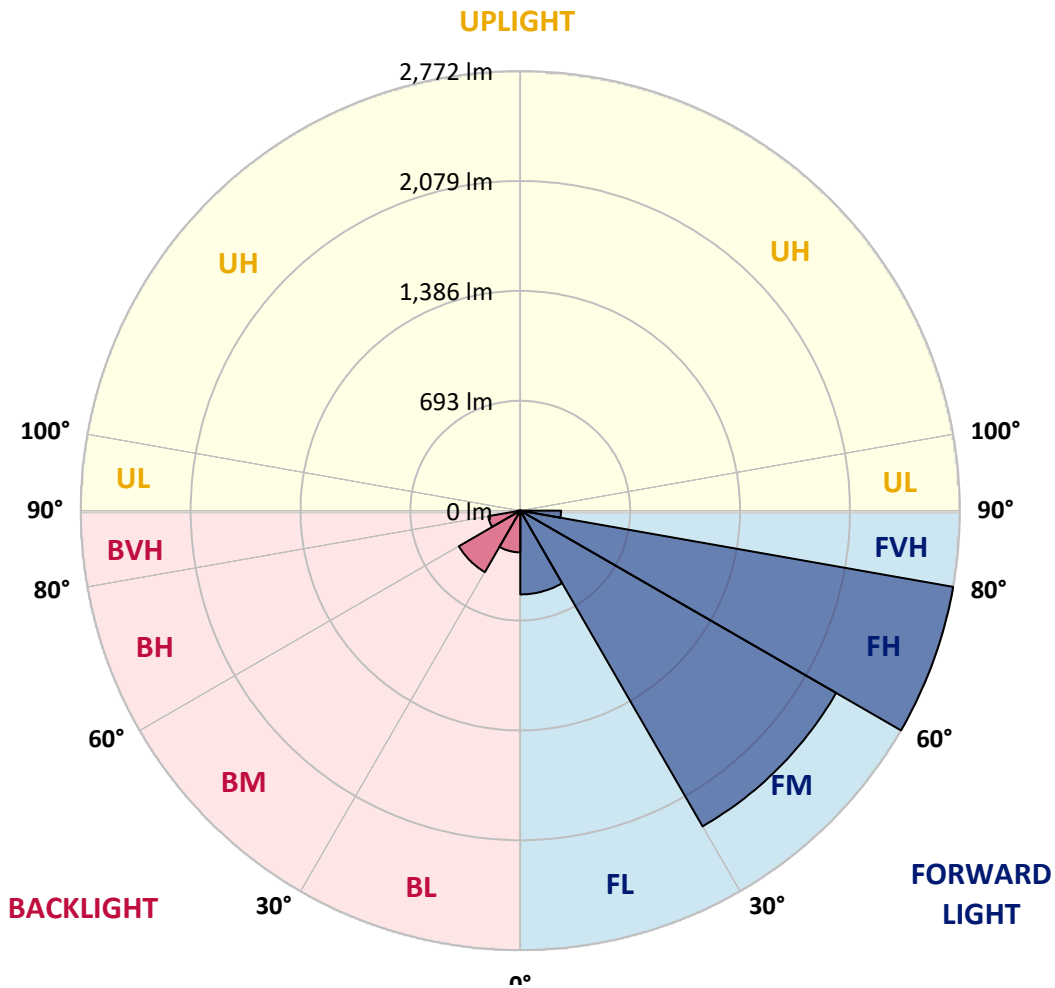
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	528.5	7.8			
FM (30°-60°)	2299.8	33.9			
FH (60°-80°)	2772.2	40.8			G2/5000
FVH (80°-90°)	257.0	3.8			G3/500
BL (0°-30°)	263.2	3.9	B1/500		
BM (30°-60°)	447.2	6.6	B1/1000		
BH (60°-80°)	205.4	3.0	B1/500		G1/500
BVH (80°-90°)	18.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7
2.5°	1237.6	1237.9	1237.6	1235.7	1231.2	1227.3	1224.2	1219.7	1209.6	1202.0	1190.5
5°	1249.4	1247.9	1247.0	1243.4	1236.2	1231.9	1225.9	1217.3	1200.8	1185.5	1166.8
7.5°	1243.9	1242.2	1240.0	1235.7	1227.6	1224.0	1215.6	1204.4	1184.5	1164.4	1137.6
10°	1226.9	1226.4	1225.4	1224.5	1217.5	1214.7	1207.0	1195.0	1175.4	1151.0	1119.7
12.5°	1208.0	1209.2	1213.0	1218.0	1214.9	1213.5	1208.7	1200.6	1180.5	1154.1	1116.3
15°	1196.0	1199.4	1209.6	1222.8	1225.4	1225.0	1223.8	1218.5	1197.2	1168.0	1124.0
17.5°	1191.9	1197.4	1217.1	1238.8	1246.5	1248.2	1248.6	1239.5	1215.9	1185.0	1131.9
20°	1199.4	1206.3	1235.0	1264.9	1277.1	1278.1	1275.9	1260.1	1233.6	1199.6	1136.2
22.5°	1221.8	1228.1	1264.0	1297.7	1311.6	1313.0	1306.5	1282.6	1252.2	1216.8	1142.2
25°	1265.1	1272.8	1308.7	1342.4	1349.6	1349.8	1340.5	1310.8	1276.6	1241.0	1155.1
27.5°	1321.6	1329.3	1361.6	1394.6	1390.8	1388.6	1375.9	1346.3	1308.5	1274.2	1178.1
30°	1384.5	1392.9	1423.5	1447.0	1437.9	1433.6	1423.3	1385.0	1352.7	1319.7	1213.2
32.5°	1449.6	1457.3	1484.1	1500.1	1488.6	1486.7	1471.1	1436.2	1410.4	1389.1	1270.2
35°	1516.4	1521.9	1548.2	1557.3	1542.0	1541.5	1537.2	1505.1	1488.8	1498.9	1353.0
37.5°	1584.5	1586.0	1608.5	1609.0	1604.4	1606.3	1610.9	1590.8	1595.3	1626.7	1460.6
40°	1645.3	1649.1	1665.4	1670.4	1678.3	1685.0	1707.8	1694.6	1729.8	1785.3	1594.6
42.5°	1690.3	1697.7	1723.8	1736.7	1762.3	1772.8	1804.9	1817.1	1887.9	1971.2	1753.9
45°	1728.3	1739.8	1781.7	1808.2	1851.5	1870.0	1915.9	1956.8	2066.6	2172.9	1921.6
47.5°	1769.5	1784.1	1836.5	1887.2	1946.1	1966.9	2050.4	2111.6	2257.3	2375.7	2079.8
50°	1830.0	1841.3	1892.5	1972.1	2045.6	2072.4	2187.9	2275.7	2451.1	2569.1	2216.9
52.5°	1914.5	1910.2	1953.5	2065.2	2163.8	2196.8	2334.8	2450.4	2647.5	2743.9	2332.7
55°	1999.4	1992.2	2022.6	2162.6	2301.6	2336.3	2496.6	2625.8	2834.4	2901.4	2421.4
57.5°	2093.9	2080.3	2105.9	2272.4	2458.5	2499.9	2677.7	2812.1	3018.1	3028.7	2477.9
60°	2191.3	2172.9	2201.6	2408.5	2657.8	2706.6	2889.7	2994.0	3191.3	3130.6	2496.1
62.5°	2276.5	2263.5	2307.8	2560.4	2882.5	2936.1	3097.8	3187.3	3362.2	3172.9	2430.5
65°	2350.9	2353.0	2429.6	2731.3	3133.0	3190.1	3336.6	3425.6	3496.6	3147.8	2277.2
67.5°	2439.6	2451.8	2582.5	2956.2	3448.3	3511.0	3684.0	3685.4	3571.8	3000.4	1975.2
70°	2569.1	2594.2	2792.8	3268.1	3896.7	3982.8	4116.3	3838.0	3466.2	2600.9	1554.2
72.5°	2683.9	2730.8	3016.5	3625.1	4443.1	4508.4	4369.2	3750.0	3025.3	1949.2	968.2
74°	2637.2	2695.4	3057.1	3801.0	4648.8	4680.2	4283.8	3493.0	2522.4	1349.8	562.7
75°	2536.8	2599.9	2997.8	3799.3	4622.8	4605.3	4077.5	3199.5	2077.4	920.6	374.4
77.5°	2047.3	2114.0	2526.0	3256.2	3790.4	3773.9	3132.2	2146.3	909.9	301.9	190.2
80°	1190.3	1241.2	1568.0	2067.8	2555.9	2585.8	2059.9	1062.0	357.9	169.6	129.0
82.5°	528.7	563.9	757.5	1055.6	1542.4	1581.0	1078.8	556.5	221.1	103.1	77.5
85°	346.9	373.0	459.8	502.7	734.5	760.8	528.0	433.3	145.9	56.7	56.9
87.5°	249.5	274.7	341.6	298.3	337.1	319.2	287.3	401.0	58.6	32.3	19.1
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°	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7
2.5°	1185.5	1181.7	1173.0	1156.8	1147.7	1140.0	1127.3	1119.9	1116.6	1116.3	1117.8
5°	1156.1	1147.2	1124.9	1097.7	1075.9	1056.0	1031.4	1016.6	1006.0	999.8	1001.5
7.5°	1121.8	1108.0	1073.0	1029.5	994.6	956.0	918.0	895.3	877.6	864.4	866.8
10°	1098.4	1079.3	1028.3	965.6	907.5	851.5	799.1	767.8	742.9	723.7	725.2
12.5°	1090.5	1064.7	994.1	910.3	828.8	752.2	683.8	635.7	610.1	588.3	590.0
15°	1091.7	1057.0	965.4	860.6	757.9	661.5	578.5	522.3	487.6	472.5	472.8
17.5°	1092.7	1048.2	935.2	807.2	687.8	576.8	486.6	429.7	396.9	383.0	383.3
20°	1089.5	1033.8	897.9	746.0	614.6	499.1	411.7	363.4	338.5	327.8	327.8
22.5°	1085.5	1016.8	855.8	684.5	542.4	431.6	358.2	321.3	307.0	299.8	299.5
25°	1087.4	1004.1	812.7	621.3	475.9	377.8	322.5	298.1	288.5	284.0	283.7
27.5°	1097.7	998.1	773.0	558.4	417.7	337.3	298.6	281.4	275.1	272.3	272.3
30°	1116.3	998.1	731.6	504.8	369.4	307.4	280.2	268.4	264.1	262.2	262.2
32.5°	1148.9	1003.7	691.7	451.7	330.9	284.0	264.8	257.0	253.6	252.6	252.6
35°	1204.9	1022.3	652.7	401.5	299.8	264.8	250.3	245.7	243.3	243.1	243.8
37.5°	1283.6	1060.4	616.1	364.4	277.8	249.3	238.1	234.5	233.0	234.2	235.2
40°	1382.6	1112.0	582.8	330.9	261.0	236.9	226.8	224.4	223.7	225.4	226.8
42.5°	1502.2	1181.9	555.5	306.7	248.1	226.3	217.2	214.4	213.6	215.6	217.5
45°	1631.7	1257.0	536.4	288.8	238.1	218.4	208.9	205.8	204.3	205.3	207.4
47.5°	1749.4	1328.1	528.7	276.1	228.5	211.7	201.4	197.6	195.2	194.7	196.4
50°	1848.7	1380.9	532.3	268.4	220.8	204.3	194.3	190.0	186.4	184.2	185.4
52.5°	1920.9	1414.2	535.7	265.1	214.8	196.2	186.4	182.3	177.5	173.9	173.9
55°	1973.3	1421.9	528.3	262.5	210.3	187.3	177.5	173.7	168.9	164.8	164.4
57.5°	1993.9	1400.3	500.7	258.6	207.2	179.0	168.2	165.3	161.3	156.5	156.2
60°	1966.1	1333.8	447.6	250.5	203.1	172.0	158.9	156.9	155.0	150.5	150.2
62.5°	1854.7	1187.9	379.0	234.0	195.0	164.6	150.2	151.2	151.4	148.3	147.9
65°	1652.5	987.4	312.0	212.5	182.8	155.8	141.4	145.9	148.6	148.1	147.4
67.5°	1358.7	768.5	264.4	189.7	166.8	143.5	131.8	137.1	139.2	140.9	140.4
70°	1008.4	541.9	218.7	165.8	147.4	129.2	119.4	122.0	120.6	122.5	123.2
72.5°	562.2	325.1	178.2	141.9	127.3	112.4	105.5	105.0	101.9	101.9	101.9
74°	337.3	238.5	156.7	127.0	115.1	101.4	95.5	93.3	90.4	90.7	90.4
75°	271.3	205.0	143.8	117.2	106.5	95.0	89.0	86.1	84.0	84.0	83.7
77.5°	171.3	155.8	115.8	93.3	85.2	78.2	74.2	70.3	70.3	70.1	69.9
80°	129.4	123.9	90.2	70.6	65.3	60.1	57.4	55.7	55.7	56.5	56.2
82.5°	88.8	93.3	63.4	49.3	46.7	42.8	42.3	42.6	41.9	40.9	40.7
85°	64.8	70.1	42.8	31.1	28.5	26.1	28.0	28.9	27.8	25.6	24.6
87.5°	24.9	45.9	23.0	12.9	12.0	10.3	12.0	12.4	13.4	10.5	10.8
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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