

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: P386367

Luminaire Tested: **GWC-SA2A-730-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P386367  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-SA2A-730-U-T2  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8690 lumens  
Efficiency: N/A  
Efficacy: 131.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

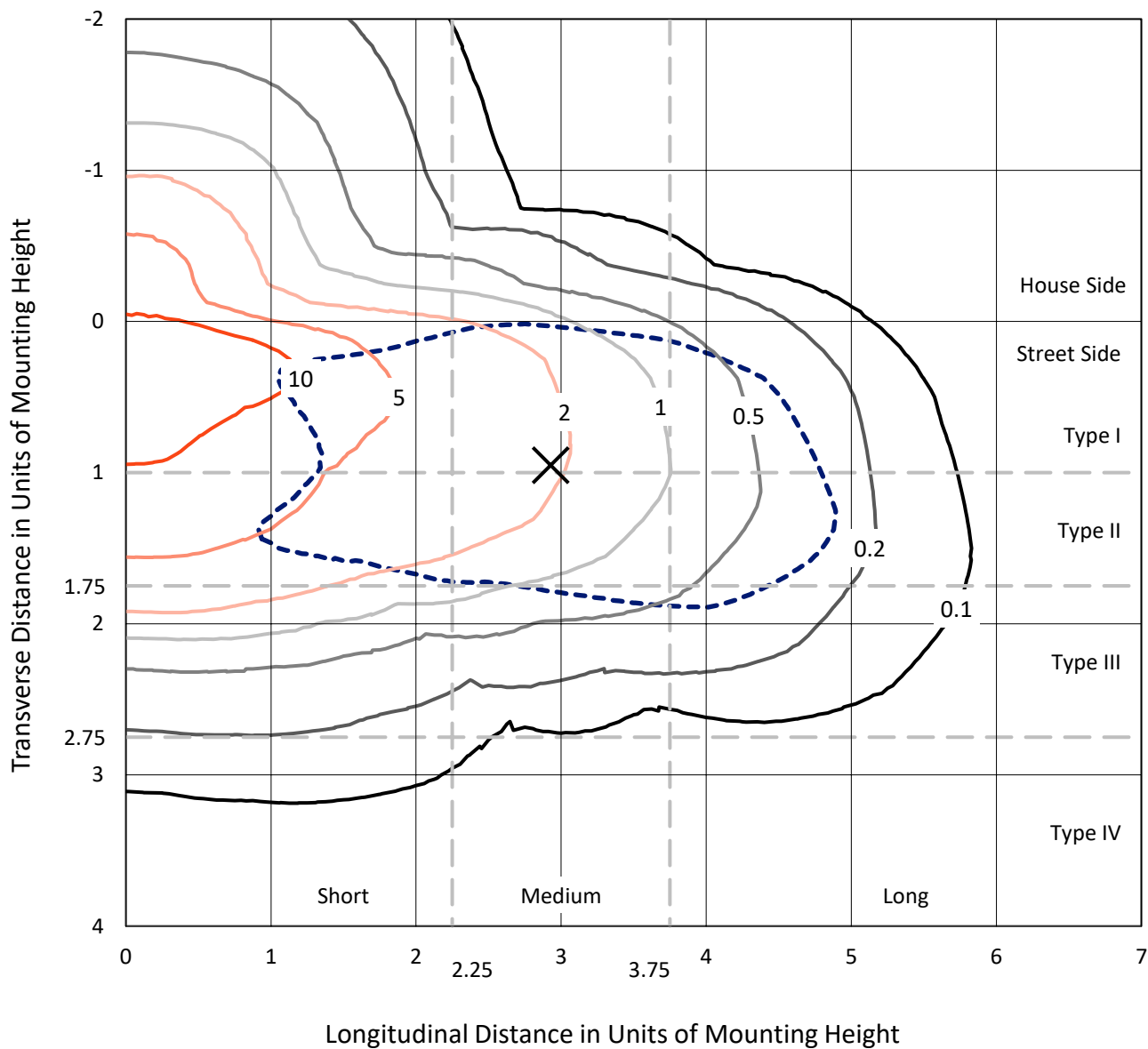
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

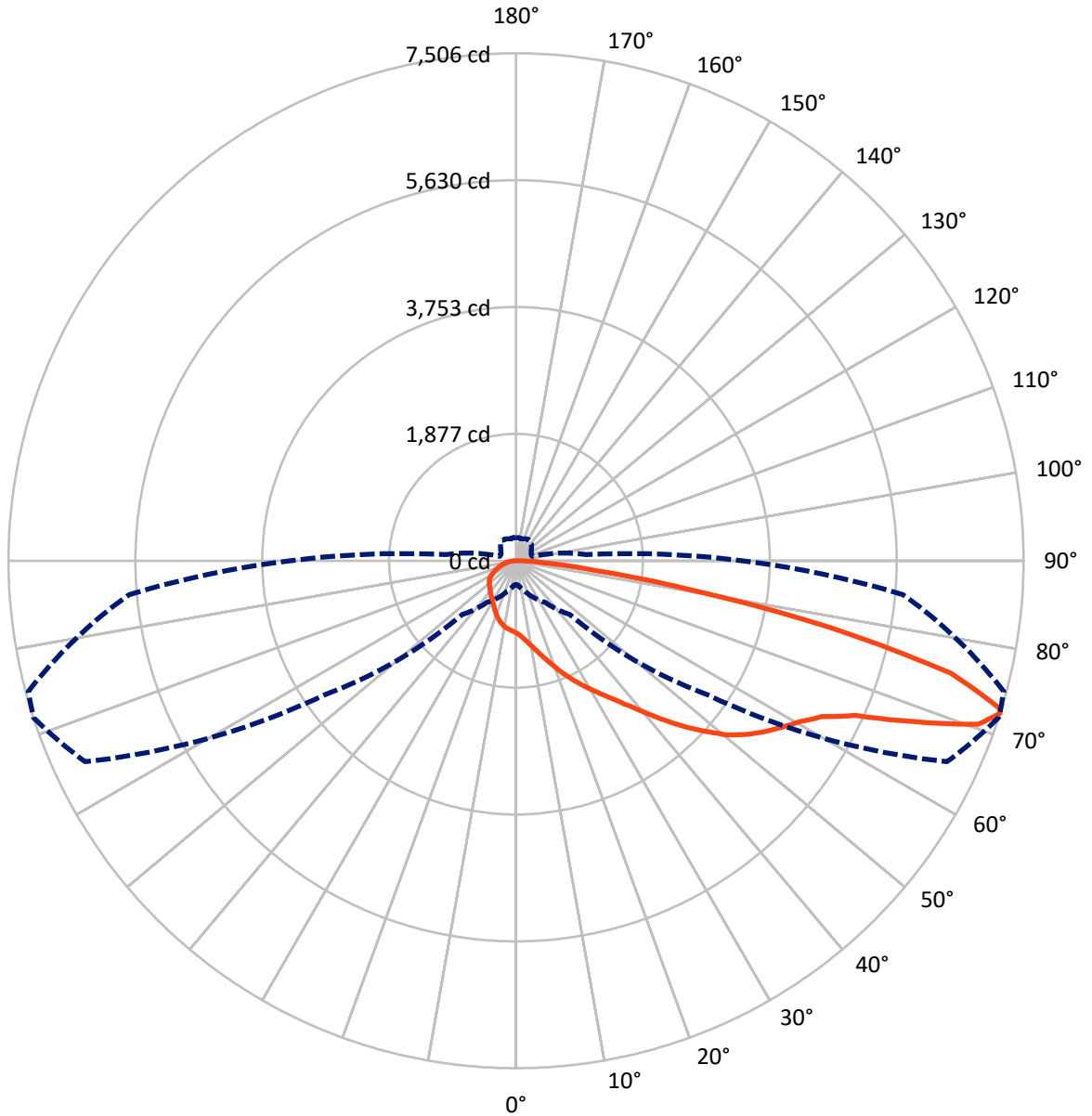
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral    - - - Horizontal Cone Through 72-Deg Vertical

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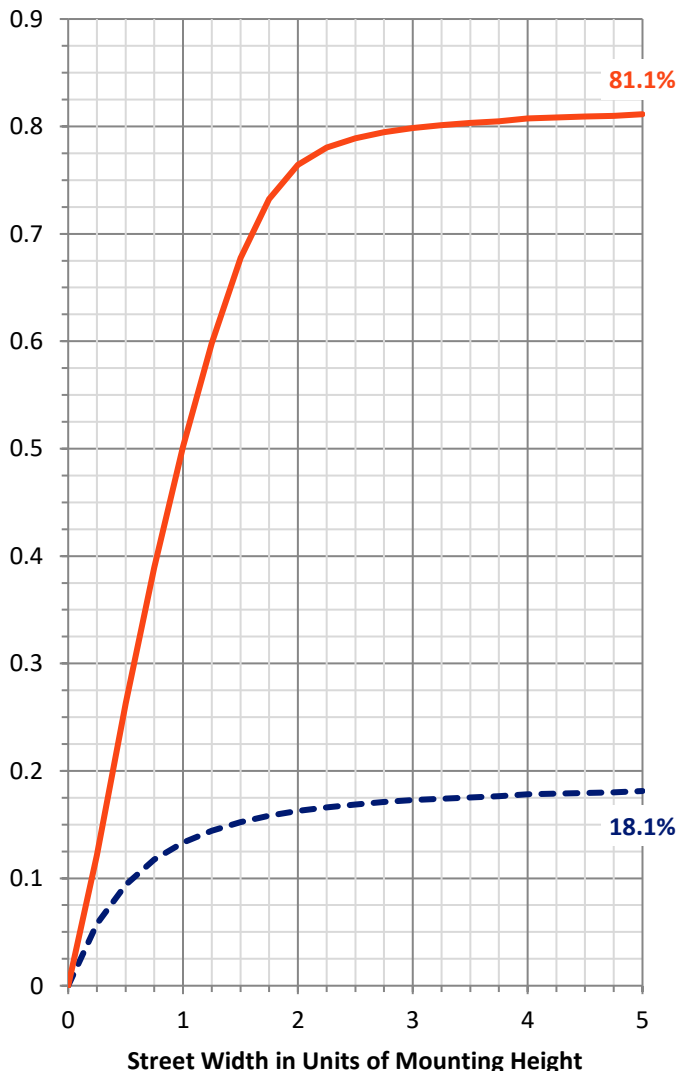
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1612.1	0.0	1612.1
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	7077.9	0.0	7077.9
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	8690.0	0.0	8690.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.1	1.2
10°-20°	346.2	4.0
20°-30°	606.6	7.0
30°-40°	899.4	10.4
40°-50°	1315.5	15.1
50°-60°	1810.1	20.8
60°-70°	2015.2	23.2
70°-80°	1365.5	15.7
80°-90°	224.4	2.6
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°	8690.0	100.0
0°-180°	8690.0	100.0

**Coefficient of Utilization**



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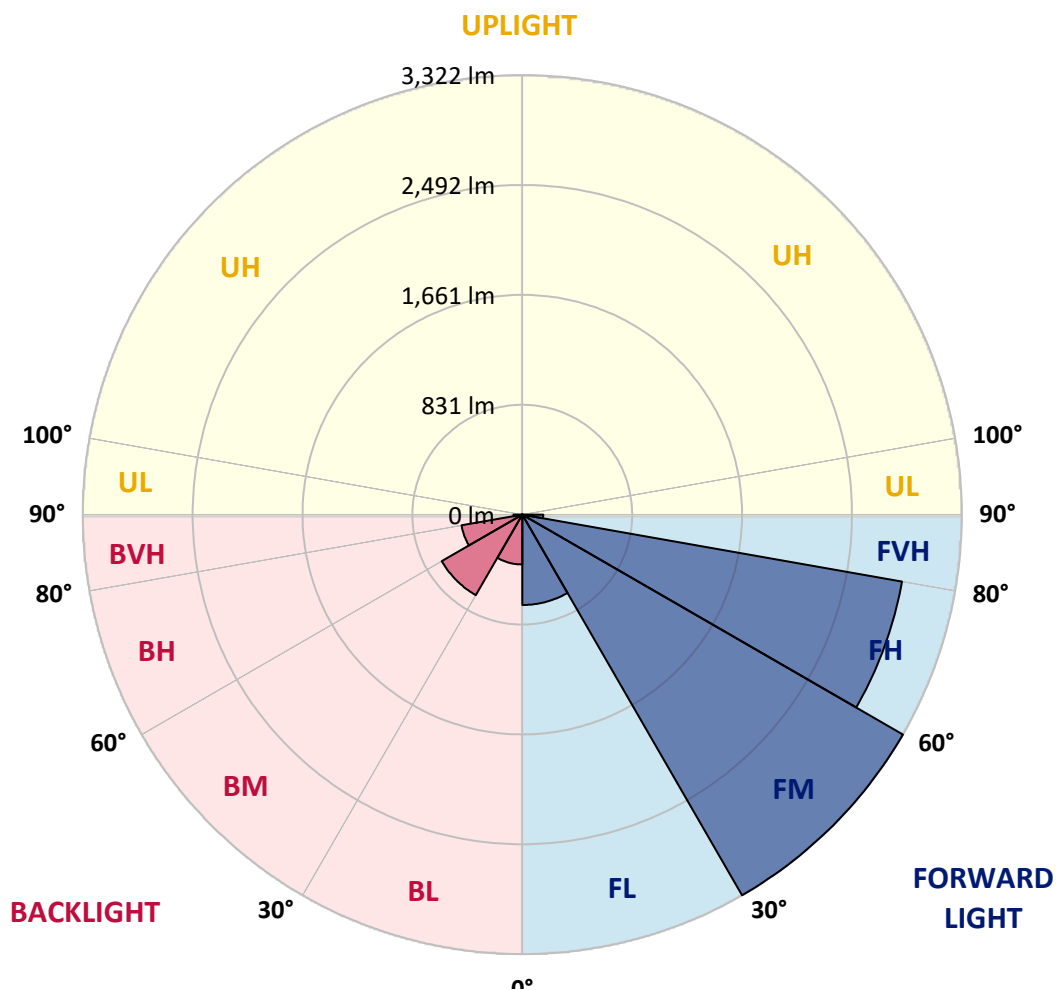
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	683.1	7.9			
FM (30°-60°)	3322.3	38.2			
FH (60°-80°)	2914.3	33.5			G2/5000
FVH (80°-90°)	158.3	1.8			G2/225
BL (0°-30°)	376.8	4.3	B1/500		
BM (30°-60°)	702.7	8.1	B1/1000		
BH (60°-80°)	466.4	5.4	B1/500		G1/500
BVH (80°-90°)	66.1	0.8			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°	65°	72°	75°	85°
0°	1069.1	1069.1	1069.1	1069.1	1069.1	1069.1	1069.1	1069.1	1069.1	1069.1	1069.1
2.5°	1181.0	1179.2	1172.9	1172.9	1161.0	1150.8	1131.6	1118.8	1103.5	1098.1	1080.2
5°	1295.3	1295.9	1288.1	1282.7	1265.1	1243.5	1210.9	1181.3	1151.7	1139.7	1102.9
7.5°	1391.4	1390.2	1388.1	1383.6	1367.1	1345.0	1301.0	1257.0	1213.3	1195.4	1131.9
10°	1453.0	1455.7	1457.5	1459.6	1452.7	1436.8	1395.2	1341.7	1284.5	1260.0	1166.6
12.5°	1484.1	1488.9	1497.3	1511.6	1523.0	1521.2	1491.0	1434.1	1366.2	1335.4	1210.0
15°	1502.4	1508.6	1521.8	1547.5	1579.6	1597.8	1589.7	1538.3	1462.6	1424.6	1263.0
17.5°	1513.7	1518.8	1539.2	1573.6	1621.1	1669.6	1690.9	1647.8	1571.5	1528.1	1323.7
20°	1521.5	1525.4	1550.8	1591.2	1652.9	1730.1	1789.3	1778.5	1691.5	1635.2	1387.2
22.5°	1538.9	1542.2	1566.4	1607.1	1675.3	1774.9	1884.2	1900.3	1818.0	1754.3	1455.1
25°	1587.3	1587.3	1607.7	1636.1	1700.1	1813.8	1964.3	2035.9	1947.3	1873.1	1517.9
27.5°	1679.8	1678.9	1686.4	1696.3	1744.7	1853.3	2035.9	2155.5	2081.3	2000.3	1579.0
30°	1789.3	1795.3	1796.2	1791.4	1814.1	1902.7	2102.0	2281.8	2216.3	2128.9	1641.5
32.5°	1930.2	1934.1	1929.6	1913.8	1910.5	1972.7	2166.9	2414.1	2362.3	2263.3	1698.6
35°	2109.2	2101.7	2087.6	2055.3	2024.5	2066.4	2241.1	2546.3	2526.3	2425.7	1777.3
37.5°	2301.0	2301.3	2283.9	2210.6	2168.1	2186.1	2343.5	2696.2	2724.7	2619.0	1878.2
40°	2454.8	2462.8	2473.6	2377.3	2322.2	2347.0	2473.6	2870.1	2959.2	2848.2	2009.5
42.5°	2562.2	2571.5	2602.0	2541.5	2484.4	2530.5	2626.8	3055.6	3222.6	3112.7	2163.3
45°	2675.9	2681.0	2702.5	2676.5	2640.0	2743.8	2799.5	3247.7	3501.1	3394.6	2335.4
47.5°	2795.6	2801.0	2823.1	2805.7	2786.6	2943.1	2979.6	3428.7	3768.0	3704.3	2519.1
50°	2943.4	2947.0	2967.9	2936.5	2942.5	3093.3	3140.6	3594.8	4047.8	3982.6	2703.4
52.5°	3145.1	3146.0	3175.0	3146.5	3118.4	3203.4	3279.1	3751.3	4267.1	4236.3	2887.7
55°	3303.0	3312.6	3407.8	3401.8	3385.6	3303.3	3394.9	3900.3	4462.8	4477.5	3083.4
57.5°	3202.2	3239.6	3432.3	3568.1	3700.4	3552.0	3551.4	4068.1	4644.7	4714.1	3298.6
60°	2804.5	2855.4	3139.4	3440.7	3854.5	3984.7	3876.3	4273.1	4828.4	4948.7	3568.1
62.5°	2002.9	2086.7	2471.5	2952.7	3643.2	4271.3	4537.6	4598.3	5078.3	5220.4	3918.5
65°	1012.5	1076.0	1398.5	1978.1	2910.8	4084.0	5256.3	5310.5	5512.4	5638.7	4458.0
67.5°	615.2	639.1	796.5	1100.2	1784.5	3181.3	5490.9	6497.5	6352.6	6419.7	5227.3
70°	453.3	471.0	569.1	730.7	1026.3	1866.8	4771.0	7344.5	7249.4	7241.9	5795.8
72°	353.1	365.9	452.7	590.4	750.4	1120.0	3458.0	7031.9	7506.1	7468.4	5743.7
72.5°	334.8	346.2	425.2	555.6	709.1	1015.2	3109.1	6820.9	7487.6	7470.5	5676.4
75°	263.6	271.7	314.8	429.7	555.0	576.0	1703.7	5285.9	6642.3	6918.5	5105.5
77.5°	218.1	219.3	242.1	312.7	432.7	407.2	836.9	3667.5	4756.3	5060.0	3616.6
80°	177.7	179.2	190.0	219.3	327.3	301.3	397.4	2108.9	2663.0	2666.3	1719.9
82.5°	141.5	141.8	153.8	160.4	235.2	215.4	227.7	990.1	1163.6	1119.4	618.2
85°	99.6	97.5	150.2	131.7	153.8	138.2	125.7	392.0	481.1	460.2	193.6
87.5°	33.2	34.4	66.7	85.3	89.8	78.4	56.0	150.2	181.6	180.1	61.3
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°	1069.1	1069.1	1069.1	1069.1	1069.1	1069.1	1069.1	1069.1	1069.1	1069.1	1069.1
2.5°	1074.5	1064.9	1050.8	1035.3	1023.0	1010.5	1001.2	996.4	991.0	986.5	991.9
5°	1085.9	1067.9	1038.0	1008.7	987.1	968.0	954.2	947.0	940.4	935.9	936.5
7.5°	1104.4	1075.4	1025.1	982.3	952.4	931.8	917.7	912.9	908.7	907.5	909.0
10°	1124.2	1081.4	1008.1	951.2	917.1	900.0	893.8	897.0	900.0	902.7	905.7
12.5°	1146.6	1086.8	983.2	914.7	885.7	879.1	885.4	899.7	910.2	916.5	920.4
15°	1175.9	1091.5	954.5	878.2	858.7	866.2	887.5	912.3	930.6	942.2	944.0
17.5°	1202.8	1091.2	917.7	841.4	836.9	858.7	890.8	925.8	950.3	966.8	970.1
20°	1230.7	1083.2	874.9	805.5	814.8	850.7	892.3	934.4	964.1	983.2	987.7
22.5°	1256.7	1069.1	827.9	772.9	796.2	839.9	886.6	929.4	959.0	974.5	979.3
25°	1274.4	1044.6	780.4	745.3	779.8	826.7	868.0	902.4	924.6	932.4	933.6
27.5°	1283.3	1012.5	735.5	721.4	762.7	805.2	833.6	850.7	857.0	856.4	855.2
30°	1284.5	970.4	696.9	702.0	743.0	773.5	786.9	783.6	775.6	761.8	763.0
32.5°	1280.6	922.8	664.6	683.4	717.8	734.9	735.5	719.6	698.1	676.2	670.2
35°	1281.8	876.1	636.1	662.5	687.3	694.8	687.9	664.6	635.2	607.1	601.1
37.5°	1295.0	835.4	611.6	638.2	653.5	655.3	645.4	620.9	599.3	571.8	569.4
40°	1326.4	806.4	588.3	611.0	619.7	620.6	606.5	589.2	591.0	576.3	576.0
42.5°	1383.0	793.8	567.6	582.6	588.0	589.8	579.0	567.9	583.5	573.9	570.6
45°	1456.0	796.8	550.3	554.7	564.6	573.0	566.4	553.0	558.9	517.3	503.6
47.5°	1540.4	816.0	536.5	530.8	547.9	563.7	553.5	533.2	512.0	470.7	462.9
50°	1639.1	845.6	523.9	507.2	529.6	551.2	541.0	512.0	479.9	459.9	457.2
52.5°	1742.0	881.8	511.4	481.1	506.6	541.6	536.5	507.2	467.7	447.9	444.3
55°	1858.7	918.3	495.5	450.9	481.7	537.1	534.4	489.8	458.4	447.3	444.6
57.5°	2003.8	959.9	474.6	419.5	458.4	520.9	512.6	479.3	448.8	440.4	439.5
60°	2192.9	1021.2	444.3	386.0	430.0	496.1	494.3	464.1	433.6	427.6	426.4
62.5°	2476.6	1122.7	402.7	352.5	398.3	453.9	470.4	443.4	417.4	417.1	417.7
65°	2916.5	1275.3	357.6	323.2	366.2	418.3	442.5	422.2	400.9	406.9	407.8
67.5°	3426.3	1401.8	313.3	294.4	333.6	384.5	417.4	400.9	379.1	394.7	395.0
70°	3596.0	1288.7	274.4	266.0	299.8	351.9	390.2	377.6	355.5	371.0	369.5
72°	3346.4	1040.4	249.2	244.5	274.4	324.9	365.9	355.8	333.9	344.4	340.5
72.5°	3267.7	991.9	243.0	239.1	267.5	318.1	359.7	350.4	328.5	337.5	333.9
75°	2915.0	861.4	208.9	209.8	233.4	284.6	324.3	321.4	298.9	299.8	298.6
77.5°	2114.3	631.6	175.9	181.9	198.7	250.1	288.7	286.9	262.4	257.9	257.0
80°	981.1	322.3	143.3	146.0	163.4	209.2	246.3	243.9	224.1	218.4	215.1
82.5°	336.0	153.2	107.7	109.5	126.6	168.5	213.6	212.1	195.7	184.6	177.7
85°	120.0	76.3	75.4	73.6	90.4	132.6	186.1	178.0	153.8	131.1	130.5
87.5°	38.9	32.6	38.9	38.6	52.7	89.8	135.2	115.2	111.6	92.8	91.0
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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