

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: P385835

Luminaire Tested: **GWC-SA1B-830-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385835  
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-SA1B-830-U-T2  
Description: GALLEON WALL LUMINAIRE  
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4759 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

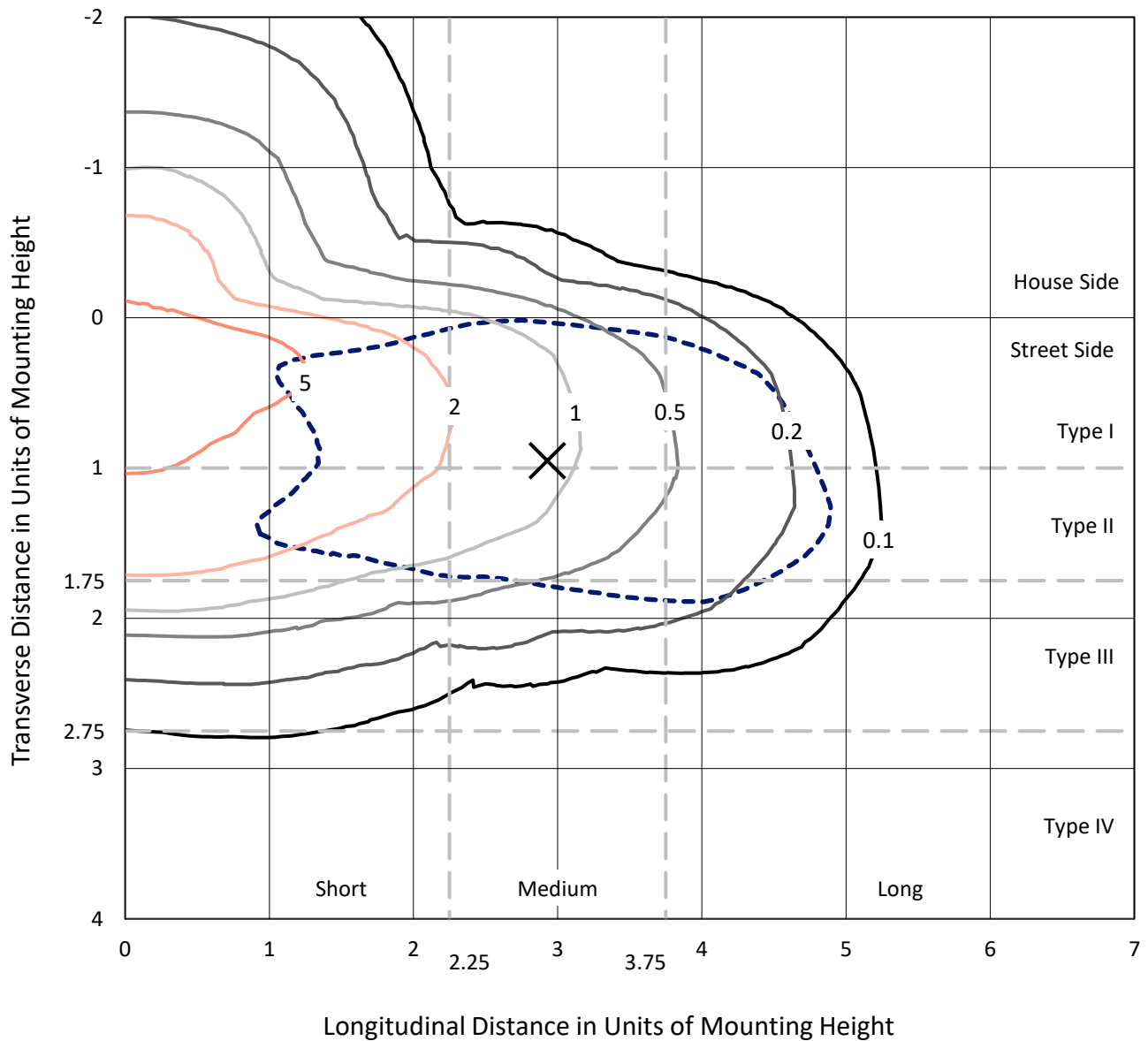
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

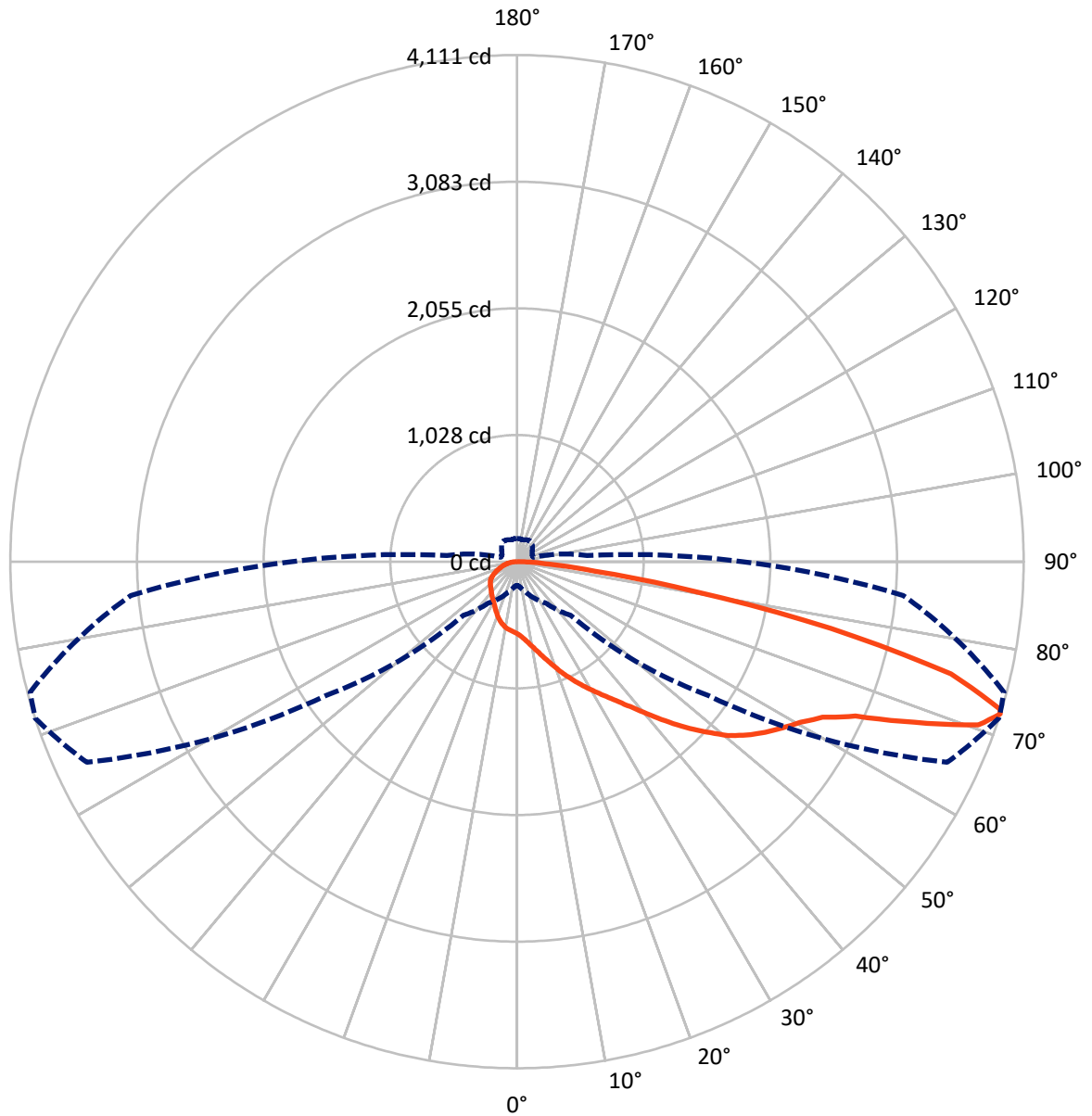
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.1 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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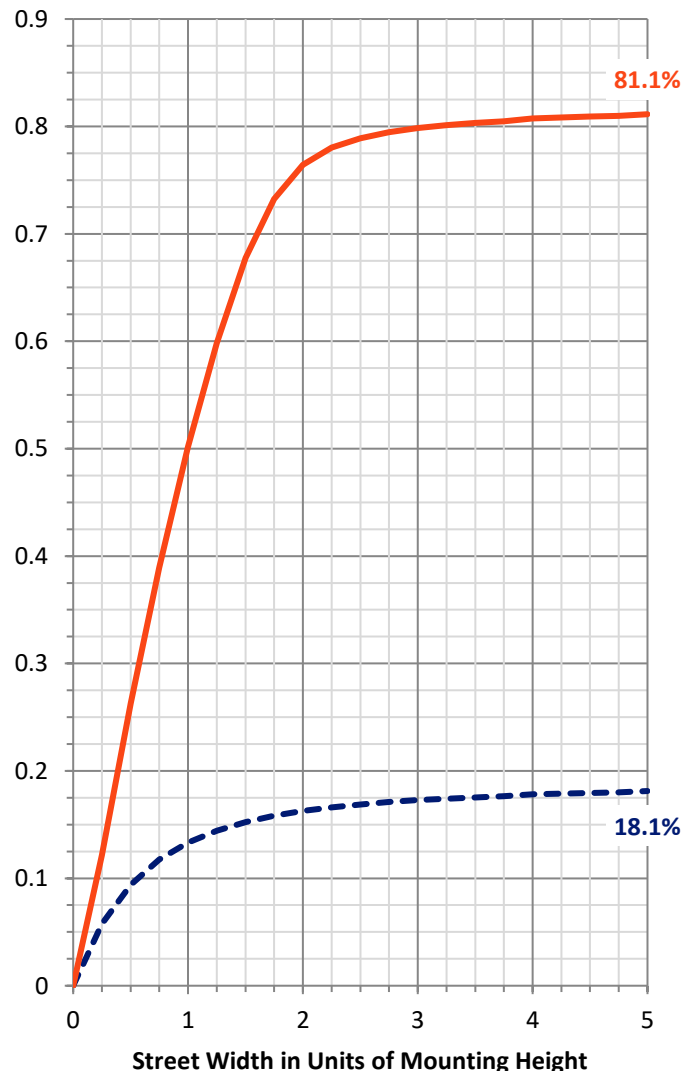
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	882.8	0.0	882.8
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	3876.2	0.0	3876.2
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	4759.0	0.0	4759.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.7	1.2
10°-20°	189.6	4.0
20°-30°	332.2	7.0
30°-40°	492.6	10.4
40°-50°	720.4	15.1
50°-60°	991.3	20.8
60°-70°	1103.6	23.2
70°-80°	747.8	15.7
80°-90°	122.9	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°	4759.0	100.0
0°-180°	4759.0	100.0

**Coefficient of Utilization**



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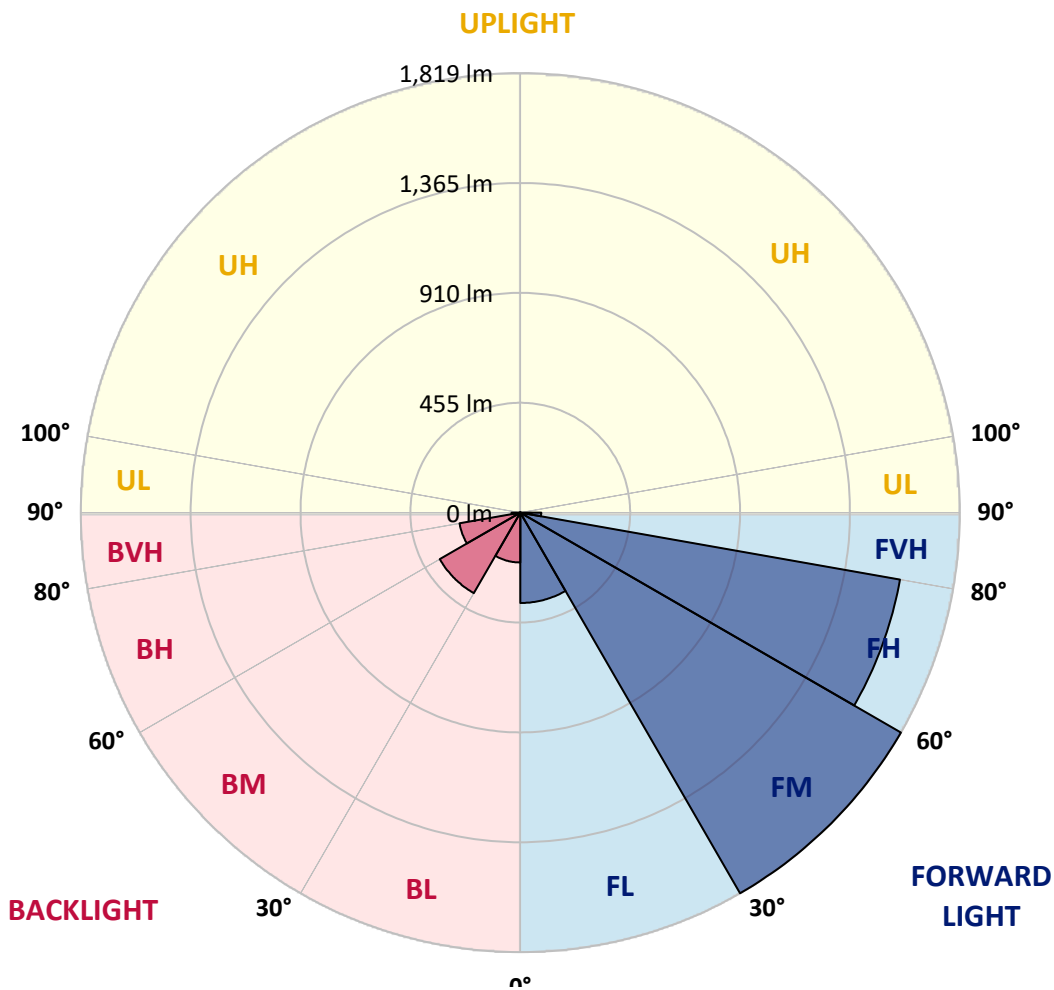
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	374.1	7.9			
FM (30°-60°)	1819.4	38.2			
FH (60°-80°)	1596.0	33.5			G1/1800
FVH (80°-90°)	86.7	1.8			G1/100
BL (0°-30°)	206.4	4.3	B1/500		
BM (30°-60°)	384.8	8.1	B1/1000		
BH (60°-80°)	255.4	5.4	B1/500		G1/500
BVH (80°-90°)	36.2	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-G1**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	585.5	585.5	585.5	585.5	585.5	585.5	585.5	585.5	585.5	585.5	585.5
2.5°	646.8	645.8	642.3	642.3	635.8	630.2	619.7	612.7	604.3	601.4	591.5
5°	709.4	709.7	705.4	702.5	692.8	681.0	663.2	646.9	630.7	624.2	604.0
7.5°	762.0	761.3	760.2	757.7	748.7	736.6	712.5	688.4	664.5	654.6	619.9
10°	795.7	797.2	798.2	799.3	795.6	786.9	764.1	734.8	703.5	690.0	638.9
12.5°	812.8	815.4	820.0	827.8	834.1	833.1	816.5	785.4	748.2	731.3	662.7
15°	822.8	826.2	833.4	847.5	865.0	875.0	870.6	842.4	801.0	780.1	691.7
17.5°	829.0	831.8	842.9	861.8	887.8	914.4	926.0	902.4	860.6	836.8	724.9
20°	833.2	835.4	849.3	871.4	905.2	947.5	979.9	974.0	926.3	895.5	759.7
22.5°	842.7	844.5	857.8	880.1	917.5	972.0	1031.8	1040.7	995.6	960.7	796.9
25°	869.3	869.3	880.4	896.0	931.1	993.3	1075.8	1114.9	1066.4	1025.8	831.3
27.5°	919.9	919.4	923.5	928.9	955.5	1015.0	1114.9	1180.5	1139.8	1095.4	864.7
30°	979.9	983.2	983.7	981.0	993.5	1042.0	1151.1	1249.6	1213.7	1165.9	899.0
32.5°	1057.1	1059.2	1056.8	1048.1	1046.3	1080.3	1186.7	1322.0	1293.7	1239.5	930.2
35°	1155.1	1151.0	1143.3	1125.6	1108.7	1131.6	1227.3	1394.5	1383.5	1328.4	973.3
37.5°	1260.1	1260.3	1250.8	1210.6	1187.3	1197.2	1283.4	1476.6	1492.1	1434.3	1028.6
40°	1344.3	1348.8	1354.7	1301.9	1271.7	1285.3	1354.7	1571.8	1620.6	1559.8	1100.5
42.5°	1403.2	1408.2	1424.9	1391.8	1360.6	1385.8	1438.5	1673.4	1764.8	1704.7	1184.7
45°	1465.4	1468.2	1480.0	1465.8	1445.8	1502.6	1533.1	1778.6	1917.4	1859.0	1278.9
47.5°	1531.0	1533.9	1546.0	1536.5	1526.1	1611.8	1631.7	1877.7	2063.5	2028.6	1379.6
50°	1611.9	1613.9	1625.4	1608.1	1611.4	1694.0	1719.9	1968.6	2216.7	2181.0	1480.5
52.5°	1722.4	1722.9	1738.7	1723.2	1707.8	1754.3	1795.8	2054.3	2336.8	2320.0	1581.4
55°	1808.9	1814.1	1866.2	1863.0	1854.1	1809.0	1859.2	2135.9	2444.0	2452.0	1688.6
57.5°	1753.7	1774.1	1879.7	1954.1	2026.5	1945.2	1944.9	2227.9	2543.6	2581.7	1806.4
60°	1535.9	1563.7	1719.2	1884.3	2110.9	2182.2	2122.8	2340.1	2644.3	2710.1	1954.1
62.5°	1096.9	1142.8	1353.5	1617.0	1995.2	2339.1	2485.0	2518.2	2781.1	2858.9	2145.9
65°	554.5	589.2	765.9	1083.3	1594.1	2236.6	2878.6	2908.2	3018.8	3088.0	2441.4
67.5°	336.9	350.0	436.2	602.5	977.3	1742.2	3007.0	3558.3	3479.0	3515.7	2862.7
70°	248.3	257.9	311.7	400.2	562.0	1022.3	2612.8	4022.2	3970.1	3966.0	3174.0
72°	193.4	200.4	247.9	323.3	411.0	613.3	1893.8	3850.9	4110.7	4090.0	3145.5
72.5°	183.4	189.6	232.8	304.3	388.4	556.0	1702.7	3735.4	4100.5	4091.2	3108.6
75°	144.4	148.8	172.4	235.3	304.0	315.4	933.0	2894.8	3637.6	3788.8	2796.0
77.5°	119.5	120.1	132.6	171.2	236.9	223.0	458.3	2008.5	2604.8	2771.1	1980.6
80°	97.3	98.2	104.1	120.1	179.3	165.0	217.6	1154.9	1458.4	1460.2	941.9
82.5°	77.5	77.7	84.2	87.8	128.8	118.0	124.7	542.2	637.3	613.0	338.5
85°	54.6	53.4	82.3	72.1	84.2	75.7	68.8	214.7	263.5	252.0	106.0
87.5°	18.2	18.8	36.5	46.7	49.2	42.9	30.6	82.3	99.5	98.6	33.6
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°	585.5	585.5	585.5	585.5	585.5	585.5	585.5	585.5	585.5	585.5	585.5
2.5°	588.4	583.2	575.5	567.0	560.2	553.4	548.3	545.7	542.7	540.3	543.2
5°	594.7	584.8	568.4	552.4	540.6	530.1	522.6	518.6	515.0	512.6	512.9
7.5°	604.8	588.9	561.4	538.0	521.6	510.3	502.6	499.9	497.7	497.0	497.8
10°	615.6	592.2	552.1	520.9	502.2	492.9	489.5	491.3	492.9	494.4	496.0
12.5°	627.9	595.1	538.5	500.9	485.0	481.4	484.9	492.7	498.5	501.9	504.0
15°	644.0	597.8	522.7	480.9	470.3	474.4	486.0	499.6	509.6	516.0	517.0
17.5°	658.7	597.6	502.6	460.8	458.3	470.3	487.8	507.0	520.4	529.4	531.2
20°	674.0	593.2	479.1	441.1	446.2	465.9	488.6	511.7	528.0	538.5	540.9
22.5°	688.2	585.5	453.4	423.3	436.0	460.0	485.5	509.0	525.2	533.7	536.3
25°	697.9	572.0	427.4	408.2	427.0	452.8	475.4	494.2	506.3	510.6	511.3
27.5°	702.8	554.5	402.8	395.1	417.7	441.0	456.5	465.9	469.3	469.0	468.3
30°	703.5	531.4	381.6	384.4	406.9	423.6	431.0	429.2	424.7	417.2	417.8
32.5°	701.3	505.4	363.9	374.3	393.1	402.4	402.8	394.1	382.3	370.3	367.1
35°	702.0	479.8	348.4	362.8	376.4	380.5	376.7	363.9	347.9	332.5	329.2
37.5°	709.2	457.5	334.9	349.5	357.9	358.9	353.5	340.0	328.2	313.1	311.8
40°	726.4	441.6	322.2	334.6	339.4	339.9	332.1	322.6	323.6	315.6	315.4
42.5°	757.4	434.7	310.8	319.0	322.0	323.0	317.1	311.0	319.5	314.3	312.5
45°	797.4	436.4	301.3	303.8	309.2	313.8	310.2	302.8	306.1	283.3	275.8
47.5°	843.6	446.9	293.8	290.7	300.0	308.7	303.1	292.0	280.4	257.8	253.5
50°	897.6	463.1	286.9	277.7	290.0	301.8	296.3	280.4	262.8	251.9	250.4
52.5°	954.0	482.9	280.0	263.5	277.4	296.6	293.8	277.7	256.1	245.3	243.3
55°	1017.9	502.9	271.4	246.9	263.8	294.1	292.7	268.2	251.0	245.0	243.5
57.5°	1097.4	525.7	259.9	229.7	251.0	285.3	280.7	262.5	245.8	241.2	240.7
60°	1200.9	559.3	243.3	211.4	235.5	271.7	270.7	254.2	237.4	234.2	233.5
62.5°	1356.3	614.8	220.6	193.0	218.1	248.6	257.6	242.8	228.6	228.4	228.8
65°	1597.2	698.4	195.8	177.0	200.6	229.1	242.4	231.2	219.6	222.9	223.3
67.5°	1876.4	767.7	171.6	161.2	182.7	210.6	228.6	219.6	207.6	216.1	216.3
70°	1969.3	705.8	150.3	145.7	164.2	192.7	213.7	206.8	194.7	203.2	202.4
72°	1832.6	569.8	136.5	133.9	150.3	178.0	200.4	194.8	182.9	188.6	186.5
72.5°	1789.5	543.2	133.1	130.9	146.5	174.2	197.0	191.9	179.9	184.8	182.9
75°	1596.3	471.8	114.4	114.9	127.8	155.8	177.6	176.0	163.7	164.2	163.5
77.5°	1157.9	345.9	96.4	99.6	108.8	137.0	158.1	157.1	143.7	141.2	140.8
80°	537.3	176.5	78.5	80.0	89.5	114.5	134.9	133.5	122.7	119.6	117.8
82.5°	184.0	83.9	59.0	60.0	69.3	92.3	117.0	116.2	107.2	101.1	97.3
85°	65.7	41.8	41.3	40.3	49.5	72.6	101.9	97.5	84.2	71.8	71.4
87.5°	21.3	17.9	21.3	21.1	28.8	49.2	74.1	63.1	61.1	50.8	49.8
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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