

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: P386623

Luminaire Tested: **GWC-SA2B-735-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P386623  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-SA2B-735-U-T3  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11206 lumens  
Efficiency: N/A  
Efficacy: 130.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 86  
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

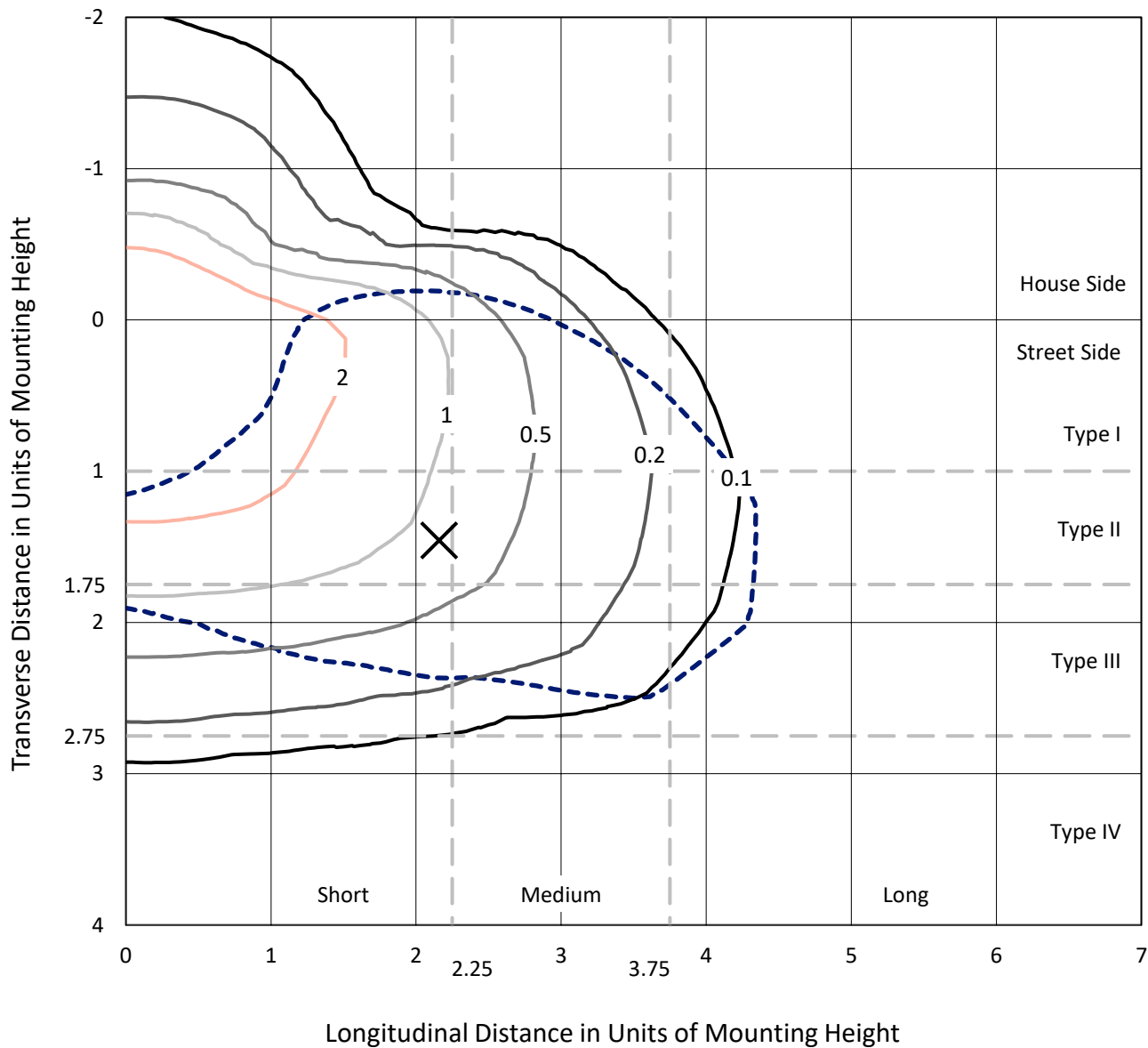


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### Iso-Footcandle Lines of Horizontal Illumination

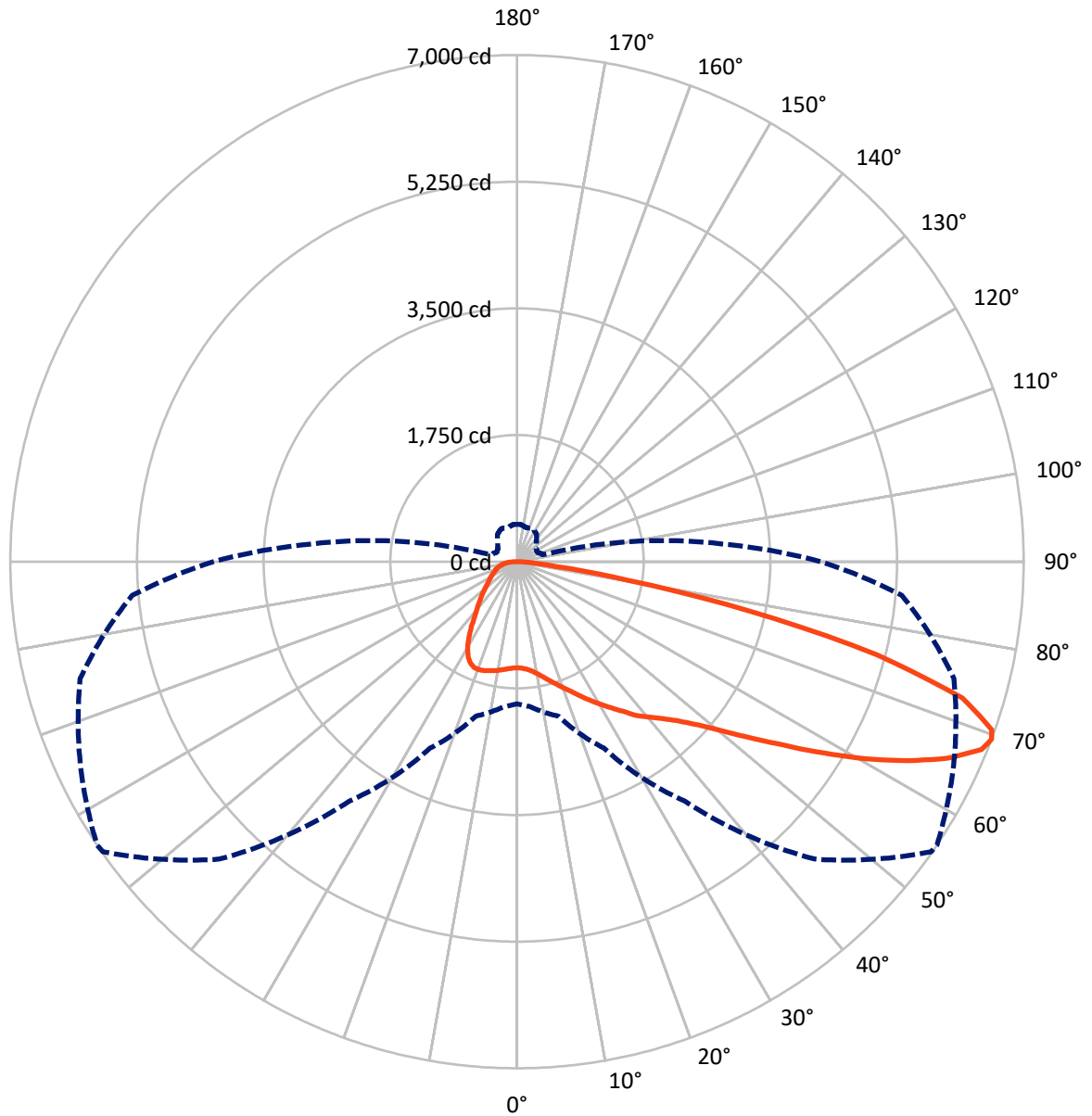
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical



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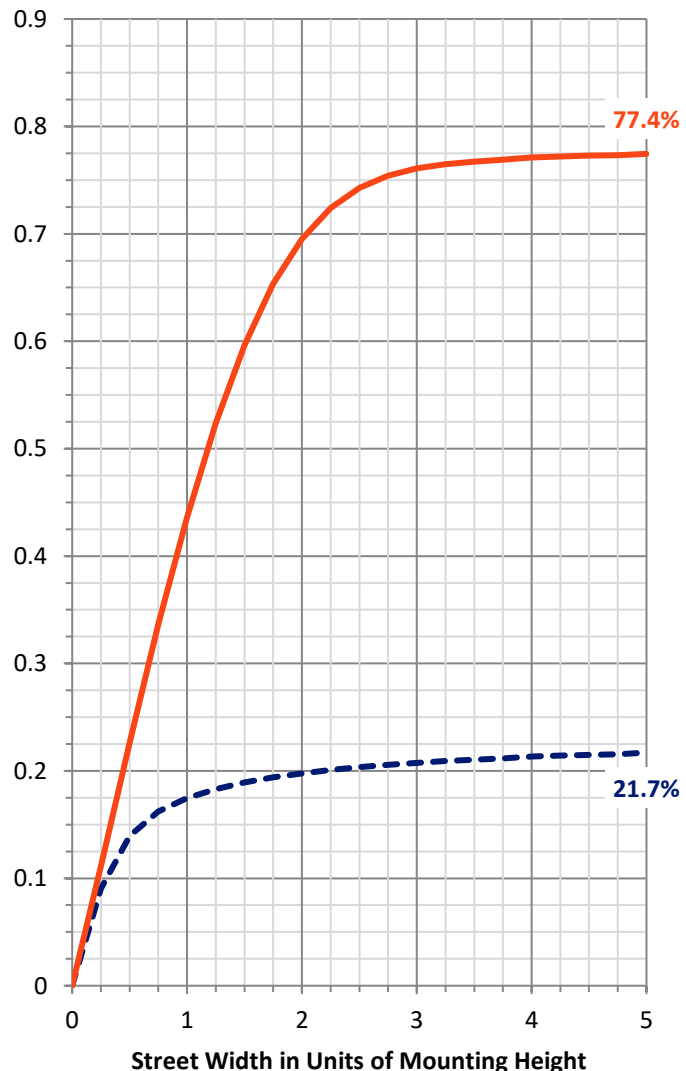
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2495.6	0.0	2495.6
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	8710.5	0.0	8710.5
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	11206.0	0.0	11206.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.9	1.3
10°-20°	462.7	4.1
20°-30°	807.7	7.2
30°-40°	1160.2	10.4
40°-50°	1605.7	14.3
50°-60°	2352.5	21.0
60°-70°	2868.1	25.6
70°-80°	1585.7	14.2
80°-90°	219.6	2.0
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°	11206.0	100.0
0°-180°	11206.0	100.0



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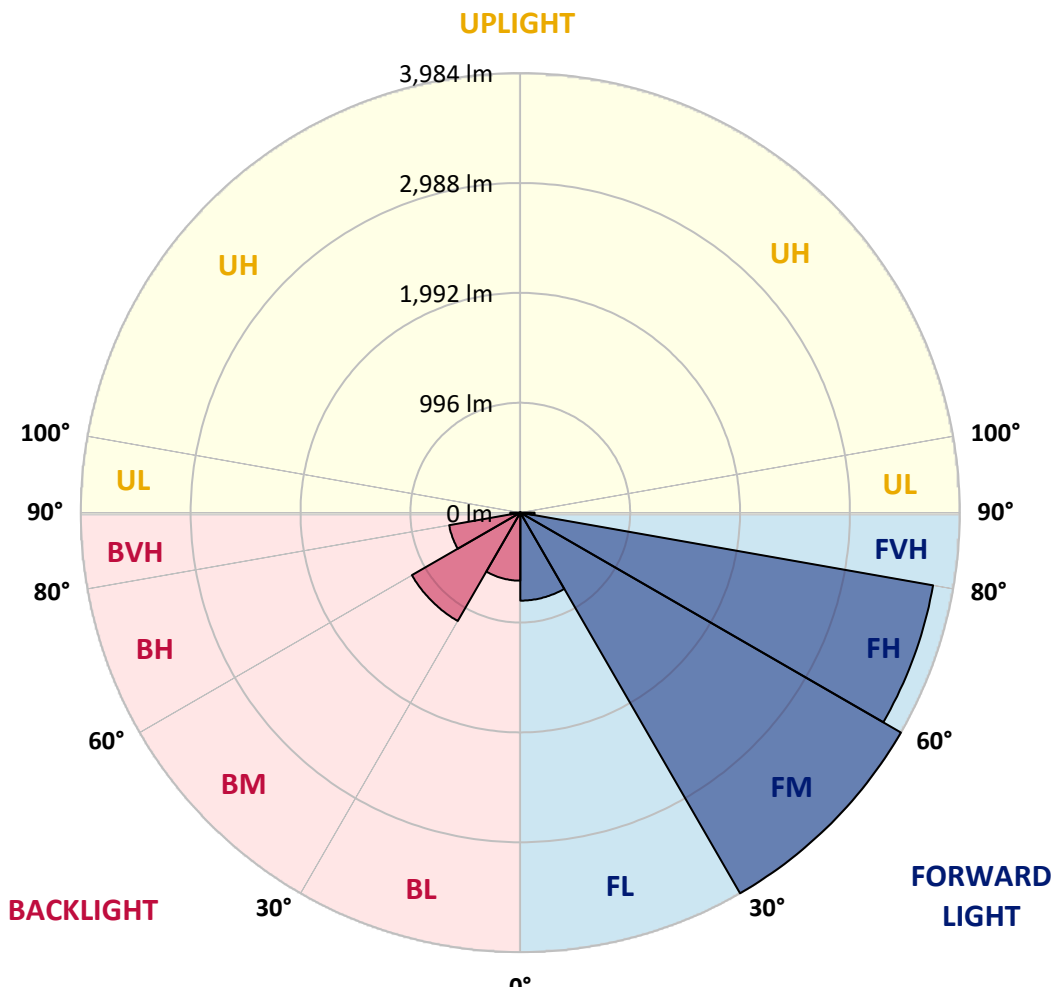
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	797.5	7.1			
FM (30°-60°)	3984.2	35.6			
FH (60°-80°)	3799.4	33.9			G2/5000
FVH (80°-90°)	129.4	1.2			G2/225
BL (0°-30°)	616.7	5.5	B2/1000		
BM (30°-60°)	1134.2	10.1	B2/2500		
BH (60°-80°)	654.4	5.8	B2/1000		G2/1000
BVH (80°-90°)	90.3	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1465.0	1465.0	1465.0	1465.0	1465.0	1465.0	1465.0	1465.0	1465.0	1465.0	1465.0
2.5°	1474.3	1475.8	1474.7	1477.8	1474.3	1476.6	1474.7	1474.7	1473.5	1470.1	1466.2
5°	1497.5	1500.5	1498.6	1501.7	1497.5	1498.2	1494.8	1494.8	1491.3	1484.0	1476.3
7.5°	1533.7	1537.2	1535.6	1538.7	1533.0	1533.0	1528.3	1527.9	1521.0	1509.0	1500.1
10°	1577.0	1581.6	1580.1	1584.7	1580.1	1581.6	1577.0	1577.0	1567.7	1550.8	1539.5
12.5°	1639.9	1645.7	1641.4	1641.0	1639.1	1642.2	1638.4	1637.6	1629.1	1605.9	1590.5
15°	1724.1	1730.3	1721.3	1720.6	1709.8	1708.6	1708.6	1707.4	1702.1	1674.3	1648.7
17.5°	1820.9	1822.9	1815.2	1802.8	1788.9	1780.1	1778.8	1781.9	1781.9	1749.5	1709.0
20°	1915.9	1919.4	1913.2	1899.4	1881.5	1868.5	1859.2	1865.4	1865.0	1826.4	1768.9
22.5°	2019.4	2027.5	2018.2	2000.4	1979.6	1964.9	1948.8	1954.1	1954.5	1907.1	1827.5
25°	2153.4	2146.0	2140.2	2115.1	2085.4	2070.3	2055.3	2060.7	2059.2	1993.9	1888.1
27.5°	2271.8	2273.4	2265.6	2239.0	2204.7	2171.5	2170.7	2174.1	2168.4	2084.2	1945.3
30°	2409.6	2410.4	2399.6	2375.7	2338.2	2295.4	2285.4	2291.2	2278.8	2169.9	2005.5
32.5°	2546.7	2550.5	2538.6	2509.7	2479.5	2427.4	2407.4	2411.2	2380.3	2257.6	2067.6
35°	2666.8	2672.2	2668.3	2649.0	2616.2	2571.4	2547.4	2545.2	2507.0	2364.9	2149.9
37.5°	2789.2	2794.1	2789.9	2773.7	2760.6	2713.1	2700.4	2700.4	2634.0	2474.6	2254.5
40°	2914.9	2922.7	2917.7	2895.3	2884.1	2862.5	2832.0	2824.7	2752.9	2606.2	2425.1
42.5°	3032.0	3041.9	3062.0	3048.9	3026.2	3029.3	2967.8	2964.0	2911.5	2800.7	2639.3
45°	3198.0	3212.6	3246.5	3236.6	3231.9	3215.0	3142.0	3138.5	3118.4	3062.4	2905.4
47.5°	3379.0	3399.1	3460.4	3462.4	3512.2	3480.2	3381.0	3368.9	3373.6	3375.9	3230.0
50°	3545.7	3567.8	3668.5	3716.1	3833.4	3840.3	3681.7	3670.9	3689.0	3742.3	3608.3
52.5°	3678.9	3706.8	3832.6	3979.3	4180.4	4237.5	4051.9	4043.8	4057.2	4149.1	4036.0
55°	3776.6	3806.7	3943.8	4210.9	4532.1	4632.9	4478.1	4470.3	4478.8	4595.8	4501.2
57.5°	3799.4	3806.7	4005.6	4366.9	4829.0	5071.0	4999.6	4984.1	4942.4	5044.4	5014.7
60°	3692.5	3721.8	3954.6	4421.7	5058.6	5503.0	5544.7	5525.4	5408.4	5491.8	5467.8
62.5°	3475.5	3528.0	3764.2	4338.3	5148.6	5855.8	6079.4	6056.2	5854.7	5908.7	5793.7
65°	3121.1	3143.5	3391.8	4050.7	5034.3	6081.6	6556.1	6544.6	6290.9	6206.4	5853.9
67.5°	2487.2	2529.3	2740.1	3449.6	4566.9	6055.1	6924.7	6923.6	6575.8	6316.8	5640.4
69°	1964.9	2008.5	2209.3	2841.7	4041.1	5811.5	6986.6	7000.1	6656.1	6249.6	5335.5
70°	1566.5	1617.1	1755.0	2393.5	3574.3	5490.3	6935.2	6959.5	6640.7	6138.8	5054.0
72.5°	666.7	707.6	805.6	1233.8	2178.5	4099.7	6341.1	6433.0	6282.8	5618.4	4176.9
75°	291.1	303.8	348.2	503.0	967.0	2231.3	4967.5	5137.5	5372.1	4749.0	3111.5
77.5°	213.1	218.5	242.8	295.3	433.9	842.7	3194.5	3293.3	3874.2	3455.8	1908.6
80°	164.9	168.7	187.6	217.0	283.3	340.9	1456.9	1541.8	2178.5	1775.0	794.8
82.5°	131.2	134.0	147.1	159.8	195.7	206.6	483.7	536.6	804.1	490.3	210.4
85°	122.0	125.0	129.7	116.6	125.5	121.2	209.2	218.9	242.8	192.7	88.0
87.5°	55.2	65.2	128.5	90.7	66.8	53.3	85.7	89.5	100.8	101.2	39.0
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°	1465.0	1465.0	1465.0	1465.0	1465.0	1465.0	1465.0	1465.0	1465.0	1465.0	1465.0
2.5°	1468.5	1467.3	1469.3	1464.6	1470.4	1470.1	1468.1	1468.8	1472.8	1472.3	1472.8
5°	1477.4	1476.6	1478.9	1475.4	1482.4	1484.7	1485.1	1488.6	1492.8	1494.0	1494.0
7.5°	1499.7	1499.7	1501.0	1496.3	1501.0	1500.5	1498.6	1502.1	1506.3	1506.7	1506.3
10°	1538.4	1538.7	1536.8	1524.8	1521.0	1510.5	1501.0	1501.3	1506.7	1510.9	1512.1
12.5°	1587.0	1585.5	1577.0	1555.0	1538.7	1517.5	1507.4	1507.1	1512.5	1516.0	1517.1
15°	1642.6	1638.4	1616.3	1580.4	1551.9	1531.0	1514.8	1510.9	1507.9	1504.0	1504.4
17.5°	1695.1	1685.5	1648.7	1598.9	1568.9	1541.1	1509.8	1484.7	1467.3	1457.3	1454.2
20°	1748.4	1729.4	1676.5	1616.3	1578.1	1527.5	1467.3	1416.4	1384.8	1370.0	1367.4
22.5°	1797.1	1766.5	1702.5	1634.5	1570.8	1482.0	1387.4	1313.3	1269.3	1249.6	1251.2
25°	1844.5	1802.0	1729.4	1647.2	1533.7	1401.7	1276.3	1185.1	1134.2	1112.1	1111.4
27.5°	1886.2	1837.9	1758.8	1636.8	1464.6	1287.4	1144.7	1055.8	1013.3	994.4	991.3
30°	1934.0	1883.1	1797.8	1597.1	1363.5	1155.5	1016.0	953.5	923.4	904.4	901.0
32.5°	1992.4	1944.5	1829.8	1524.8	1234.2	1017.6	915.7	872.0	844.6	823.4	819.5
35°	2077.3	2025.5	1837.9	1421.4	1092.1	908.8	842.0	797.2	760.2	732.7	730.0
37.5°	2183.8	2127.1	1819.4	1287.4	954.3	838.1	780.5	725.4	677.1	638.5	632.3
40°	2337.5	2251.7	1768.0	1133.0	852.8	783.6	720.7	657.9	598.0	552.8	543.9
42.5°	2522.0	2398.1	1689.3	979.4	778.3	728.5	661.2	583.3	526.2	494.1	489.5
45°	2756.7	2550.2	1580.1	845.1	704.9	673.3	597.2	525.4	489.9	466.3	462.5
47.5°	3024.7	2720.8	1465.4	735.8	642.7	621.5	545.9	499.6	471.4	452.8	449.3
50°	3353.9	2913.4	1343.8	646.2	580.3	559.4	521.6	485.3	462.8	448.6	445.1
52.5°	3725.3	3130.8	1256.2	575.6	528.5	513.5	508.8	477.5	459.4	448.6	445.1
55°	4125.3	3351.9	1161.6	516.1	483.7	487.9	500.3	478.3	465.9	452.8	447.8
57.5°	4525.5	3580.5	1056.2	465.9	448.2	469.0	494.5	479.8	469.4	456.6	452.0
60°	4842.1	3725.3	892.9	423.9	420.0	448.2	480.6	468.3	454.8	455.1	454.4
62.5°	4990.0	3717.6	712.6	386.5	391.8	420.0	458.2	450.2	438.9	454.0	455.1
65°	4906.9	3532.2	554.7	352.5	361.8	390.7	435.0	441.2	445.1	474.0	478.0
67.5°	4558.8	3171.7	429.7	322.8	334.3	370.6	437.4	480.6	485.7	516.1	515.7
69°	4198.5	2833.5	373.3	307.3	320.8	375.6	467.5	505.7	486.8	519.2	514.6
70°	3896.7	2566.0	343.2	296.8	314.6	384.5	487.5	505.3	481.0	508.8	501.1
72.5°	3001.1	1846.0	291.1	277.6	293.7	367.9	493.4	494.1	467.5	472.9	459.7
75°	2058.4	1166.6	254.0	251.3	262.1	331.6	474.9	472.1	432.4	424.6	413.8
77.5°	1135.0	592.6	215.8	226.2	233.5	293.7	431.6	427.7	394.9	378.7	374.8
80°	437.8	259.5	182.2	201.1	205.7	254.4	378.3	374.8	347.5	326.6	320.8
82.5°	165.2	135.9	150.6	174.1	172.6	210.0	320.4	318.5	291.9	261.3	252.0
85°	76.5	81.4	119.3	143.6	132.5	155.6	256.4	259.8	227.3	191.1	191.1
87.5°	32.4	45.6	84.5	108.5	89.1	105.0	188.0	179.5	164.9	114.2	107.3
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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