

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: P386585

Luminaire Tested: **GWC-SA2B-730-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P386585  
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-SA2B-730-U-SL4  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3000K, 800mA 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: 10321 lumens  
Efficiency: N/A  
Efficacy: 120.0 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): 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

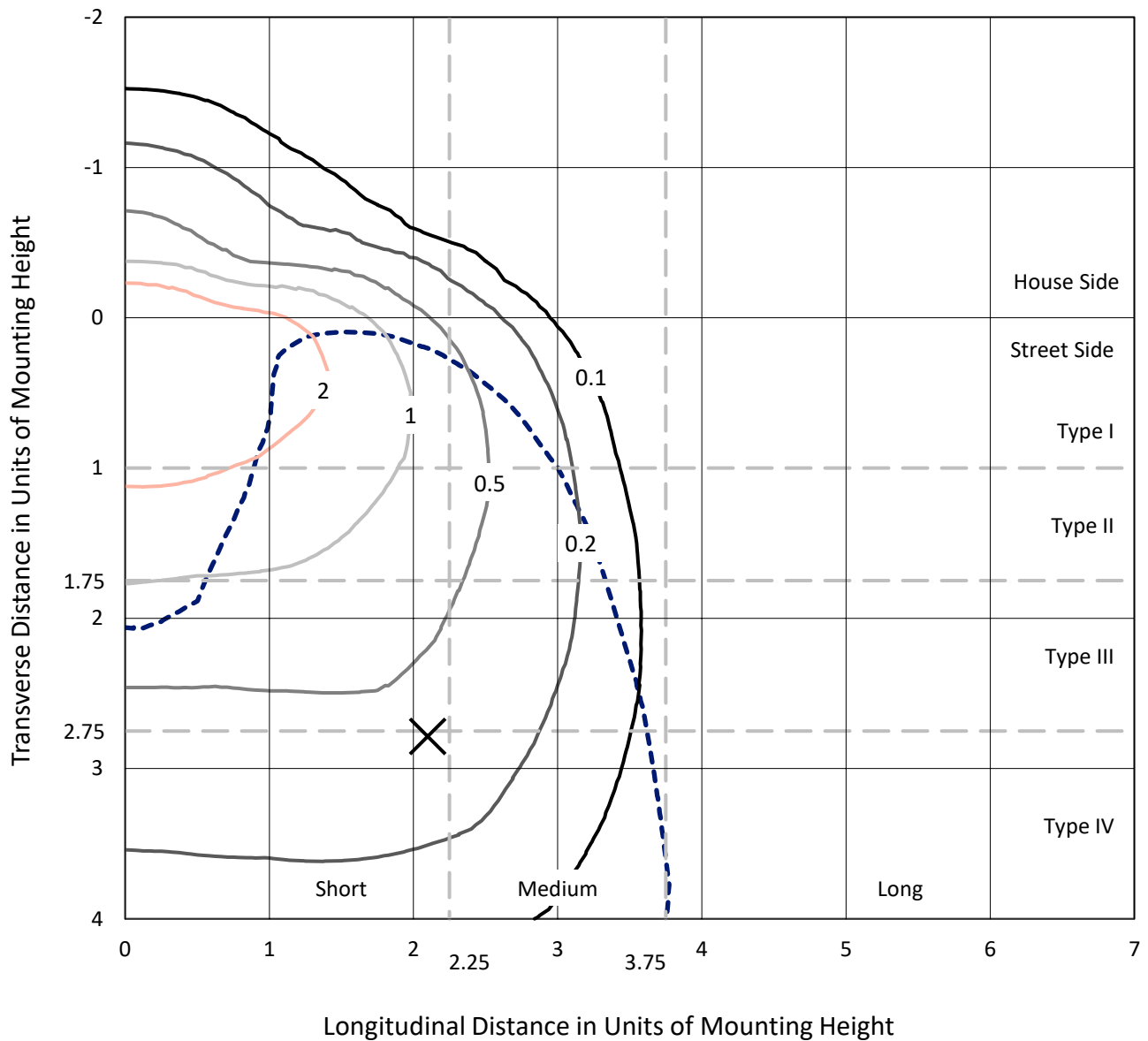


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### Iso-Footcandle Lines of Horizontal Illumination

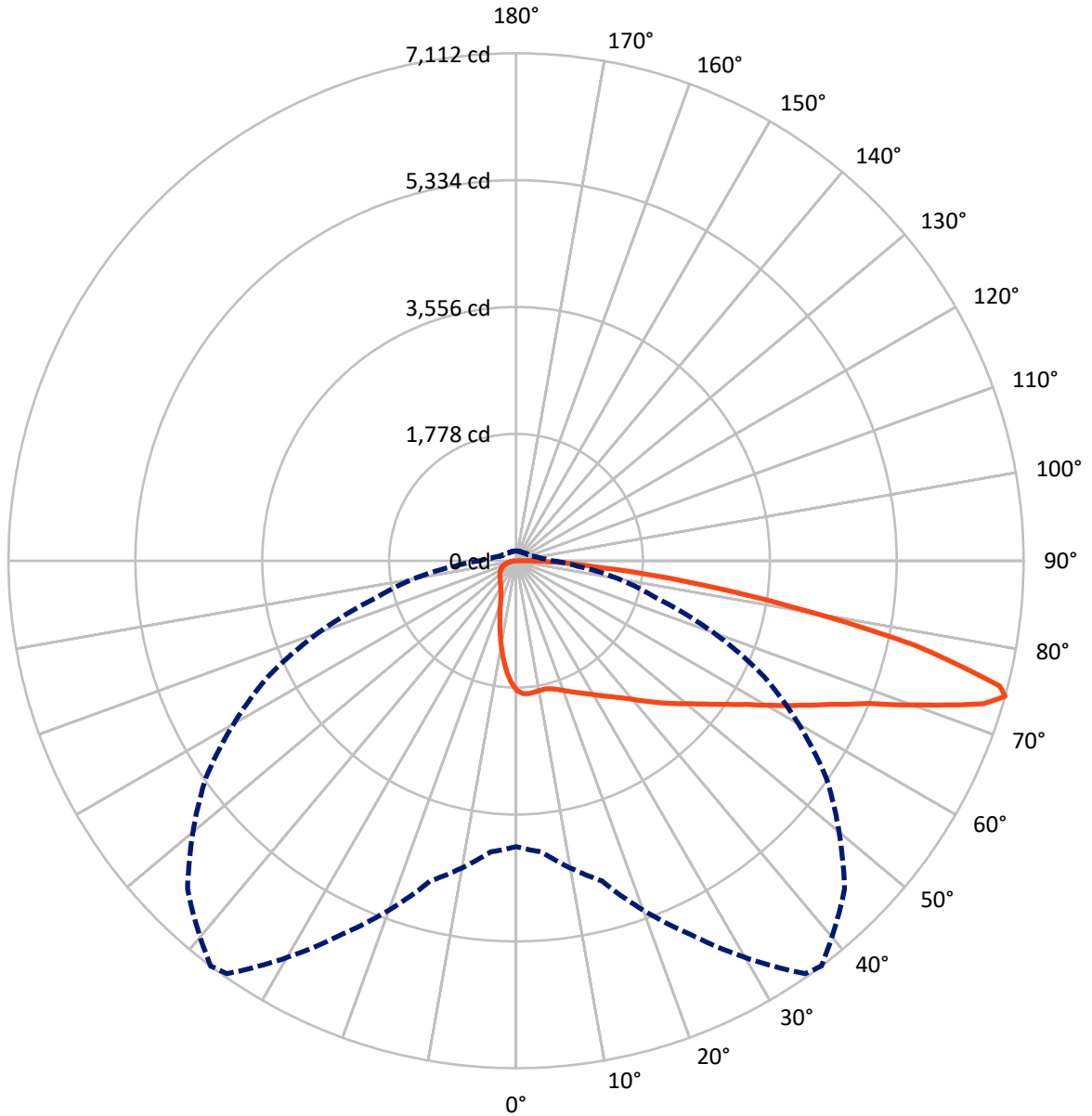
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.6 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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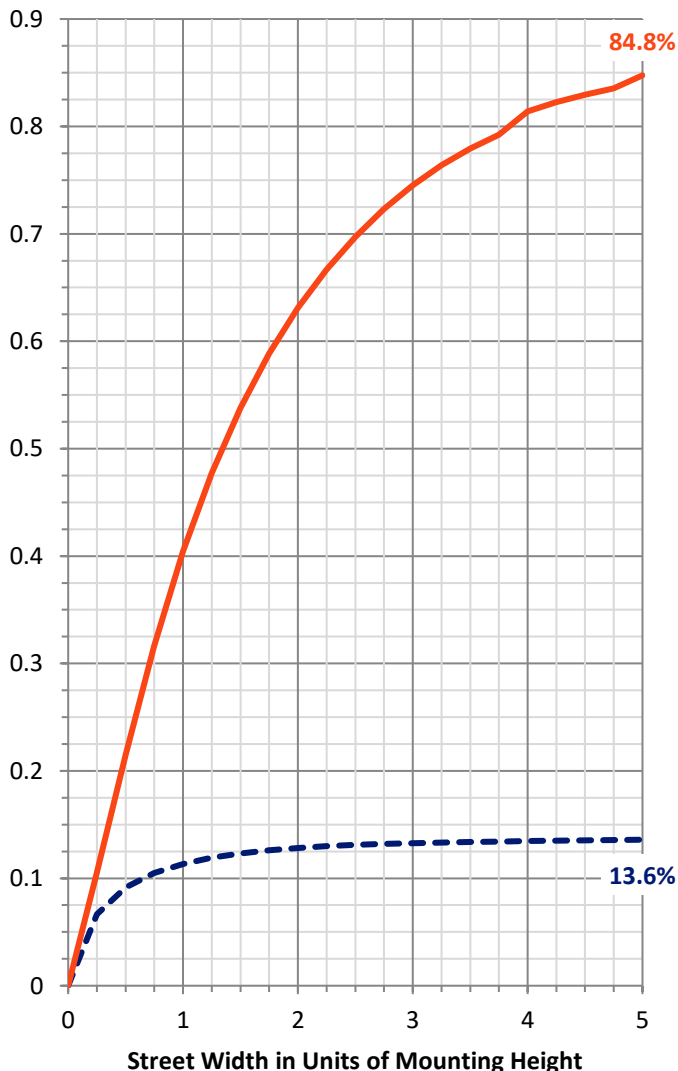
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1420.1	0.0	1420.1
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	8900.9	0.0	8900.9
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	10321.0	0.0	10321.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.1	1.6
10°-20°	410.5	4.0
20°-30°	632.5	6.1
30°-40°	919.7	8.9
40°-50°	1353.7	13.1
50°-60°	1901.0	18.4
60°-70°	2406.0	23.3
70°-80°	2118.6	20.5
80°-90°	418.9	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°	10321.0	100.0
0°-180°	10321.0	100.0

**Coefficient of Utilization**



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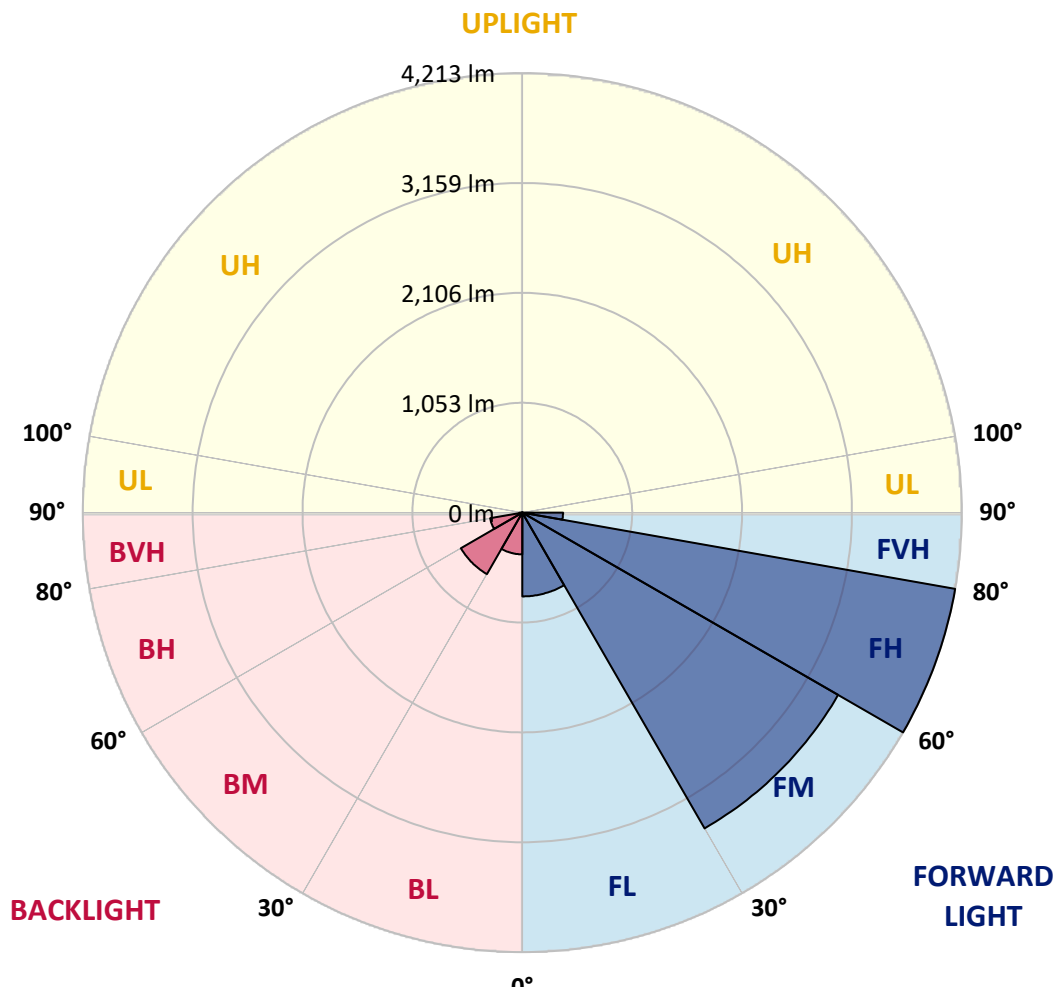
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	803.1	7.8			
FM (30°-60°)	3494.8	33.9			
FH (60°-80°)	4212.5	40.8			G2/5000
FVH (80°-90°)	390.5	3.8			G3/500
BL (0°-30°)	400.0	3.9	B1/500		
BM (30°-60°)	679.6	6.6	B1/1000		
BH (60°-80°)	312.2	3.0	B1/500		G1/500
BVH (80°-90°)	28.4	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°	1818.5	1818.5	1818.5	1818.5	1818.5	1818.5	1818.5	1818.5	1818.5	1818.5	1818.5
2.5°	1880.7	1881.1	1880.7	1877.8	1870.9	1865.1	1860.3	1853.4	1838.2	1826.5	1809.1
5°	1898.5	1896.3	1894.9	1889.4	1878.5	1872.0	1862.9	1849.8	1824.7	1801.4	1773.1
7.5°	1890.1	1887.6	1884.3	1877.8	1865.4	1860.0	1847.2	1830.2	1800.0	1769.4	1728.7
10°	1864.3	1863.6	1862.1	1860.7	1850.1	1845.8	1834.2	1816.0	1786.2	1749.1	1701.5
12.5°	1835.6	1837.4	1843.2	1850.9	1846.2	1844.0	1836.7	1824.3	1793.8	1753.8	1696.4
15°	1817.4	1822.5	1838.2	1858.1	1862.1	1861.4	1859.6	1851.6	1819.2	1774.9	1708.0
17.5°	1811.2	1819.6	1849.4	1882.5	1894.1	1896.7	1897.4	1883.6	1847.6	1800.7	1720.0
20°	1822.5	1833.1	1876.7	1922.1	1940.7	1942.1	1938.9	1914.9	1874.5	1822.9	1726.5
22.5°	1856.7	1866.1	1920.7	1971.9	1993.0	1995.2	1985.4	1949.0	1902.9	1849.1	1735.6
25°	1922.5	1934.1	1988.7	2039.9	2050.8	2051.2	2037.0	1991.9	1939.9	1885.8	1755.3
27.5°	2008.3	2019.9	2069.0	2119.2	2113.4	2110.1	2090.8	2045.7	1988.3	1936.3	1790.2
30°	2103.9	2116.6	2163.2	2198.8	2185.0	2178.4	2162.8	2104.6	2055.6	2005.4	1843.6
32.5°	2202.8	2214.4	2255.2	2279.5	2262.1	2259.2	2235.5	2182.4	2143.2	2110.8	1930.1
35°	2304.2	2312.6	2352.6	2366.4	2343.1	2342.4	2335.9	2287.1	2262.4	2277.7	2055.9
37.5°	2407.8	2410.0	2444.2	2444.9	2438.0	2440.9	2447.8	2417.3	2424.2	2471.8	2219.5
40°	2500.2	2506.0	2530.7	2538.4	2550.4	2560.5	2595.1	2575.1	2628.5	2712.9	2423.1
42.5°	2568.5	2579.8	2619.4	2639.1	2678.0	2694.0	2742.7	2761.2	2868.8	2995.4	2665.2
45°	2626.3	2643.8	2707.4	2747.8	2813.6	2841.6	2911.4	2973.5	3140.4	3301.8	2920.1
47.5°	2688.9	2711.1	2790.7	2867.8	2957.2	2988.8	3115.7	3208.8	3430.2	3610.1	3160.4
50°	2780.9	2797.9	2875.7	2996.8	3108.4	3149.1	3324.7	3458.2	3724.7	3903.9	3368.7
52.5°	2909.2	2902.7	2968.5	3138.2	3288.0	3338.2	3548.0	3723.6	4023.1	4169.7	3544.7
55°	3038.3	3027.4	3073.5	3286.2	3497.4	3550.1	3793.7	3990.1	4307.1	4408.9	3679.6
57.5°	3181.9	3161.1	3200.0	3453.1	3735.9	3798.8	4068.9	4273.3	4586.3	4602.3	3765.4
60°	3329.8	3301.8	3345.5	3659.9	4038.8	4112.9	4391.1	4549.6	4849.5	4757.2	3793.0
62.5°	3459.3	3439.6	3506.9	3890.8	4380.2	4461.6	4707.4	4843.3	5109.1	4821.5	3693.4
65°	3572.3	3575.6	3691.9	4150.4	4760.8	4847.7	5070.2	5205.4	5313.4	4783.3	3460.4
67.5°	3707.2	3725.7	3924.3	4492.1	5240.0	5335.2	5598.1	5600.3	5427.6	4559.4	3001.5
70°	3903.9	3942.1	4243.8	4966.2	5921.3	6052.2	6255.0	5832.2	5267.2	3952.2	2361.7
72.5°	4078.4	4149.7	4583.7	5508.6	6751.6	6850.9	6639.3	5698.4	4597.2	2961.9	1471.3
74°	4007.5	4095.9	4645.6	5775.9	7064.3	7111.9	6509.5	5308.0	3833.0	2051.2	855.1
75°	3854.8	3950.8	4555.4	5773.3	7024.7	6998.1	6196.1	4861.9	3156.8	1399.0	569.0
77.5°	3111.0	3212.4	3838.5	4948.0	5759.9	5734.8	4759.7	3261.5	1382.6	458.8	289.0
80°	1808.7	1886.1	2382.8	3142.2	3883.9	3929.3	3130.2	1613.8	543.9	257.8	196.0
82.5°	803.5	856.9	1151.0	1604.0	2343.9	2402.4	1639.3	845.6	335.9	156.7	117.8
85°	527.2	566.8	698.8	763.8	1116.1	1156.1	802.4	658.4	221.8	86.2	86.5
87.5°	379.2	417.4	519.2	453.4	512.3	485.0	436.6	609.3	89.1	49.1	29.1
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°	1818.5	1818.5	1818.5	1818.5	1818.5	1818.5	1818.5	1818.5	1818.5	1818.5	1818.5
2.5°	1801.4	1795.6	1782.5	1757.8	1744.0	1732.4	1713.1	1701.8	1696.7	1696.4	1698.5
5°	1756.7	1743.3	1709.5	1668.0	1634.9	1604.7	1567.3	1544.8	1528.8	1519.3	1521.9
7.5°	1704.7	1683.6	1630.6	1564.4	1511.3	1452.8	1395.0	1360.4	1333.5	1313.5	1317.2
10°	1669.1	1640.0	1562.6	1467.3	1379.0	1293.9	1214.3	1166.7	1128.8	1099.8	1101.9
12.5°	1657.1	1617.8	1510.6	1383.3	1259.4	1143.0	1039.1	966.0	927.1	894.0	896.5
15°	1658.9	1606.2	1467.0	1307.7	1151.8	1005.2	879.1	793.6	740.9	718.0	718.4
17.5°	1660.4	1592.8	1421.2	1226.6	1045.2	876.5	739.5	653.0	603.1	582.1	582.4
20°	1655.6	1570.9	1364.4	1133.6	934.0	758.4	625.7	552.2	514.4	498.1	498.1
22.5°	1649.5	1545.1	1300.4	1040.1	824.2	655.9	544.2	488.3	466.4	455.5	455.2
25°	1652.4	1525.9	1235.0	944.2	723.1	574.1	490.1	453.0	438.5	431.5	431.2
27.5°	1668.0	1516.8	1174.7	848.5	634.8	512.6	453.7	427.5	418.1	413.7	413.7
30°	1696.4	1516.8	1111.8	767.1	561.3	467.2	425.7	407.9	401.4	398.5	398.5
32.5°	1745.8	1525.1	1051.0	686.4	502.8	431.5	402.5	390.5	385.4	383.9	383.9
35°	1830.9	1553.5	991.8	610.1	455.5	402.5	380.3	373.4	369.7	369.4	370.5
37.5°	1950.5	1611.3	936.2	553.7	422.1	378.8	361.7	356.3	354.1	355.9	357.4
40°	2101.0	1689.8	885.6	502.8	396.6	359.9	344.7	341.0	339.9	342.5	344.7
42.5°	2282.8	1796.0	844.2	466.1	377.0	343.9	330.1	325.7	324.7	327.6	330.5
45°	2479.5	1910.1	815.1	438.8	361.7	331.9	317.4	312.7	310.5	311.9	315.2
47.5°	2658.3	2018.1	803.5	419.5	347.2	321.7	306.1	300.3	296.7	295.9	298.5
50°	2809.2	2098.5	808.9	407.9	335.6	310.5	295.2	288.7	283.2	279.9	281.8
52.5°	2919.0	2149.0	814.0	402.8	326.5	298.1	283.2	277.0	269.8	264.3	264.3
55°	2998.6	2160.6	802.7	398.8	319.6	284.7	269.8	263.9	256.7	250.5	249.8
57.5°	3029.9	2127.9	760.9	393.0	314.8	271.9	255.6	251.2	245.0	237.8	237.4
60°	2987.7	2026.8	680.2	380.6	308.7	261.4	241.4	238.5	235.6	228.7	228.3
62.5°	2818.3	1805.1	575.9	355.6	296.3	250.1	228.3	229.8	230.1	225.4	224.7
65°	2511.1	1500.4	474.1	322.8	277.8	236.7	214.9	221.8	225.8	225.0	224.0
67.5°	2064.6	1167.8	401.7	288.3	253.4	218.1	200.3	208.3	211.6	214.1	213.4
70°	1532.4	823.5	332.3	251.9	224.0	196.3	181.4	185.4	183.2	186.1	187.2
72.5°	854.4	494.1	270.9	215.6	193.4	170.9	160.3	159.6	154.9	154.9	154.9
74°	512.6	362.5	238.1	193.0	174.9	154.1	145.1	141.8	137.4	137.8	137.4
75°	412.3	311.6	218.5	178.1	161.8	144.3	135.2	130.9	127.6	127.6	127.2
77.5°	260.3	236.7	176.0	141.8	129.4	118.9	112.7	106.9	106.9	106.5	106.2
80°	196.7	188.3	137.1	107.2	99.3	91.3	87.3	84.7	84.7	85.8	85.4
82.5°	134.9	141.8	96.3	74.9	70.9	65.1	64.3	64.7	63.6	62.2	61.8
85°	98.5	106.5	65.1	47.3	43.3	39.6	42.5	44.0	42.2	38.9	37.4
87.5°	37.8	69.8	34.9	19.6	18.2	15.6	18.2	18.9	20.4	16.0	16.4
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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