

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: P387183

Luminaire Tested: **GWC-SA2D-830-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P387183  
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-SA2D-830-U-T3  
Description: GALLEON WALL LUMINAIRE  
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12870 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

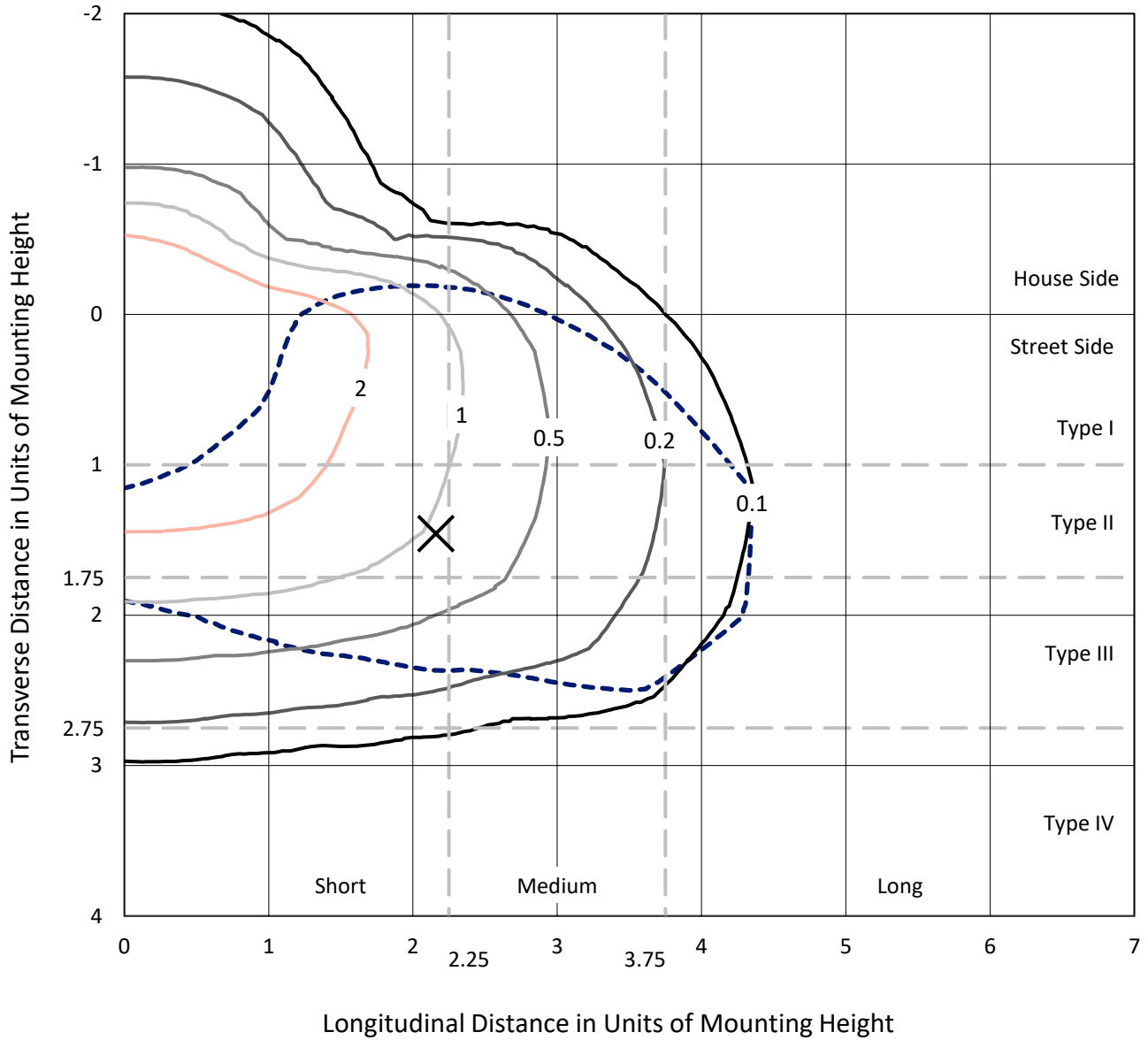
Input Watts (W): 128  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

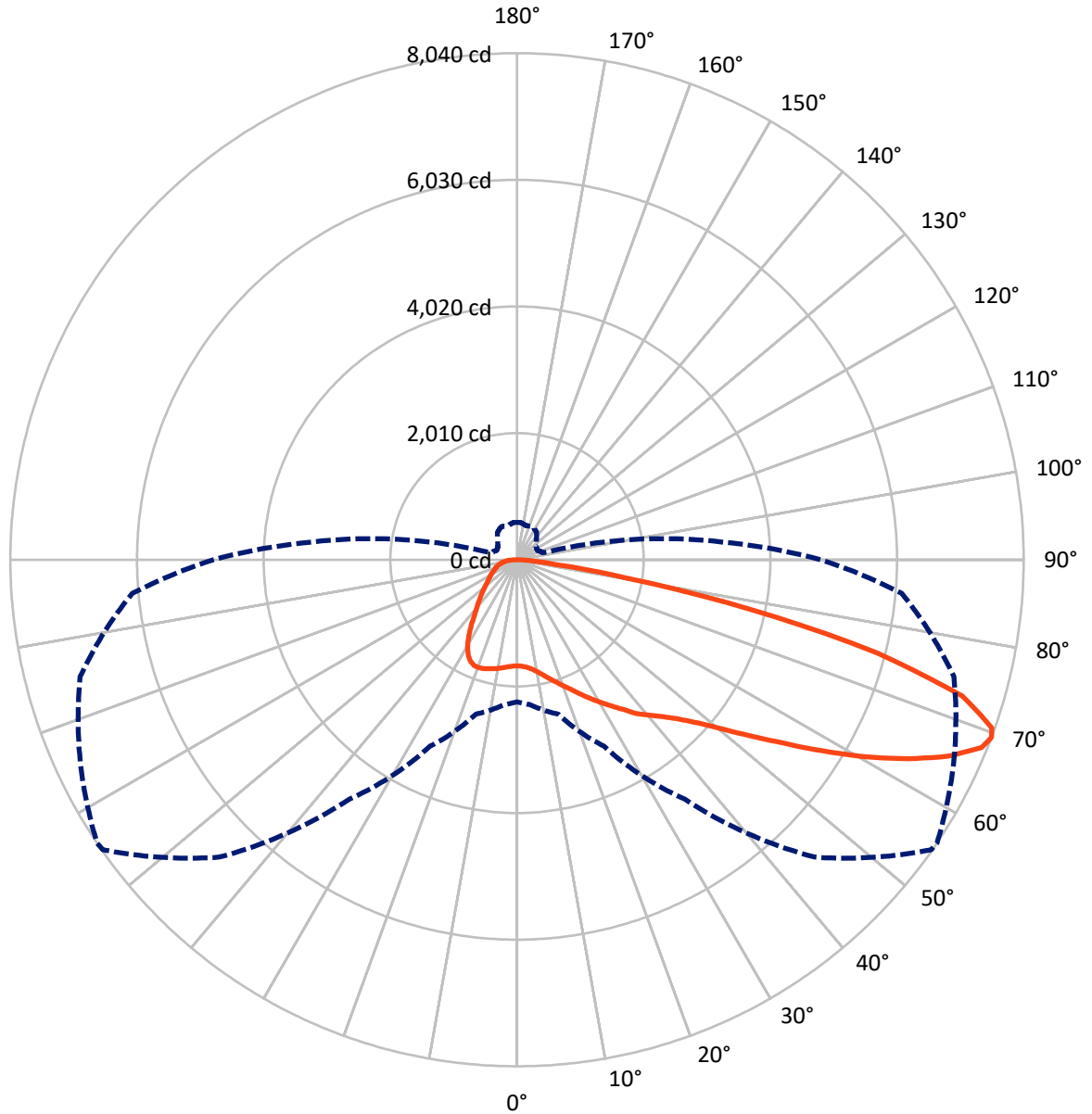
✕ Max cd  
 - - - 1/2 Max cd



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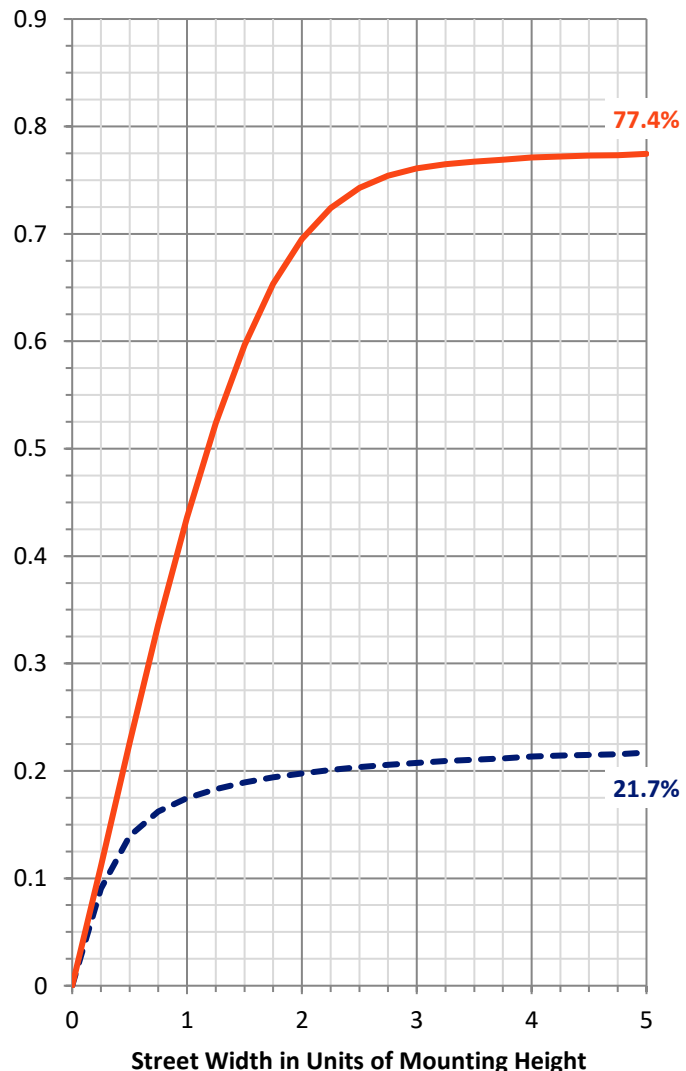
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2866.1	0.0	2866.1
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	10003.9	0.0	10003.9
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	12870.0	0.0	12870.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.3	1.3
10°-20°	531.4	4.1
20°-30°	927.6	7.2
30°-40°	1332.5	10.4
40°-50°	1844.1	14.3
50°-60°	2701.8	21.0
60°-70°	3294.0	25.6
70°-80°	1821.1	14.2
80°-90°	252.2	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°	12870.0	100.0
0°-180°	12870.0	100.0



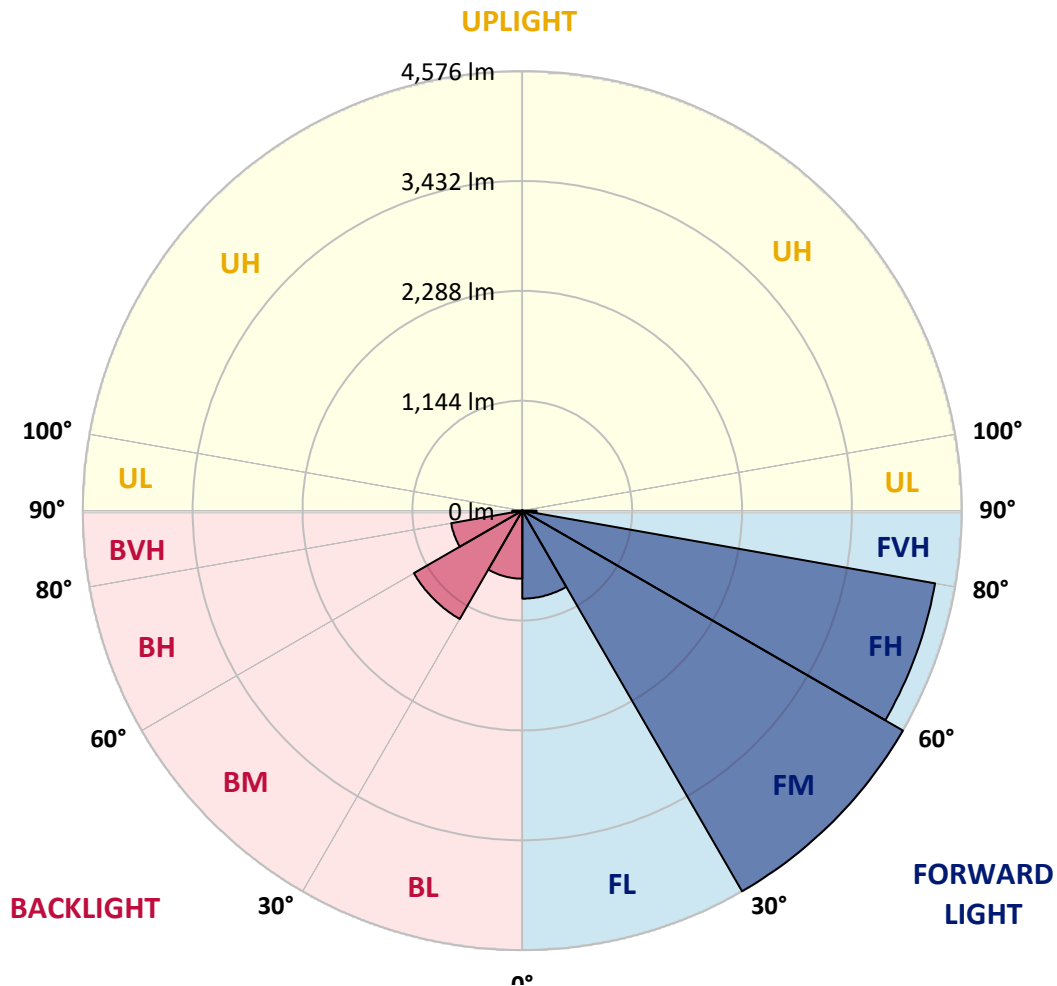
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	916.0	7.1			
FM (30°-60°)	4575.8	35.6			
FH (60°-80°)	4363.6	33.9			G2/5000
FVH (80°-90°)	148.6	1.2			G2/225
BL (0°-30°)	708.3	5.5	B2/1000		
BM (30°-60°)	1302.6	10.1	B2/2500		
BH (60°-80°)	751.6	5.8	B2/1000		G2/1000
BVH (80°-90°)	103.7	0.8			G2/225
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°	1682.6	1682.6	1682.6	1682.6	1682.6	1682.6	1682.6	1682.6	1682.6	1682.6	1682.6
2.5°	1693.2	1695.0	1693.6	1697.2	1693.2	1695.9	1693.6	1693.6	1692.3	1688.3	1683.9
5°	1719.8	1723.3	1721.1	1724.7	1719.8	1720.7	1716.7	1716.7	1712.7	1704.3	1695.4
7.5°	1761.5	1765.5	1763.7	1767.2	1760.6	1760.6	1755.3	1754.8	1746.8	1733.1	1722.9
10°	1811.1	1816.5	1814.7	1820.0	1814.7	1816.5	1811.1	1811.1	1800.5	1781.0	1768.1
12.5°	1883.4	1890.1	1885.2	1884.7	1882.5	1886.1	1881.6	1880.7	1871.0	1844.4	1826.7
15°	1980.1	1987.1	1977.0	1976.1	1963.7	1962.3	1962.3	1961.0	1954.8	1922.9	1893.6
17.5°	2091.3	2093.6	2084.7	2070.5	2054.5	2044.3	2043.0	2046.6	2046.6	2009.3	1962.8
20°	2200.4	2204.4	2197.3	2181.3	2160.9	2145.9	2135.2	2142.3	2141.9	2097.5	2031.5
22.5°	2319.2	2328.5	2317.9	2297.5	2273.6	2256.7	2238.1	2244.3	2244.7	2190.2	2098.9
25°	2473.1	2464.6	2458.0	2429.2	2395.0	2377.8	2360.5	2366.7	2364.9	2290.0	2168.5
27.5°	2609.2	2611.0	2602.1	2571.5	2532.0	2493.9	2493.0	2497.0	2490.4	2393.7	2234.1
30°	2767.5	2768.4	2755.9	2728.4	2685.4	2636.2	2624.7	2631.4	2617.2	2492.1	2303.3
32.5°	2924.9	2929.3	2915.5	2882.3	2847.7	2787.9	2764.8	2769.2	2733.8	2592.8	2374.6
35°	3062.7	3069.0	3064.5	3042.4	3004.7	2953.2	2925.7	2923.1	2879.2	2716.0	2469.1
37.5°	3203.3	3209.1	3204.2	3185.6	3170.5	3115.9	3101.3	3101.3	3025.1	2842.0	2589.2
40°	3347.8	3356.7	3350.9	3325.2	3312.4	3287.5	3252.5	3244.1	3161.6	2993.1	2785.2
42.5°	3482.2	3493.7	3516.7	3501.7	3475.5	3479.1	3408.6	3404.1	3343.8	3216.6	3031.3
45°	3672.8	3689.7	3728.7	3717.1	3711.8	3692.3	3608.5	3604.5	3581.5	3517.2	3336.7
47.5°	3880.7	3903.8	3974.3	3976.5	4033.7	3996.9	3883.0	3869.2	3874.5	3877.2	3709.6
50°	4072.3	4097.6	4213.3	4267.8	4402.6	4410.6	4228.3	4215.9	4236.8	4298.0	4144.1
52.5°	4225.2	4257.2	4401.7	4570.2	4801.2	4866.8	4653.5	4644.2	4659.7	4765.3	4635.3
55°	4337.4	4372.0	4529.4	4836.2	5205.1	5320.8	5143.0	5134.1	5143.9	5278.2	5169.6
57.5°	4363.6	4372.0	4600.3	5015.3	5546.0	5824.0	5742.0	5724.2	5676.4	5793.4	5759.3
60°	4240.8	4274.5	4541.8	5078.3	5809.8	6320.1	6368.0	6345.8	6211.5	6307.3	6279.8
62.5°	3991.6	4051.9	4323.2	4982.5	5913.1	6725.4	6982.1	6955.5	6724.0	6786.1	6654.0
65°	3584.6	3610.3	3895.4	4652.2	5781.9	6984.7	7529.6	7516.3	7225.0	7127.9	6723.1
67.5°	2856.6	2904.9	3147.0	3961.9	5245.0	6954.1	7953.0	7951.7	7552.2	7254.7	6478.0
69°	2256.7	2306.8	2537.4	3263.6	4641.1	6674.4	8024.0	8039.5	7644.4	7177.6	6127.7
70°	1799.2	1857.2	2015.5	2748.8	4105.1	6305.5	7965.0	7992.9	7626.7	7050.3	5804.5
72.5°	765.7	812.7	925.3	1417.0	2501.9	4708.5	7282.7	7388.2	7215.7	6452.7	4797.2
75°	334.3	348.9	399.9	577.7	1110.6	2562.6	5705.2	5900.3	6169.8	5454.2	3573.5
77.5°	244.7	250.9	278.9	339.2	498.3	967.9	3668.8	3782.3	4449.6	3969.0	2192.0
80°	189.3	193.7	215.5	249.2	325.4	391.5	1673.2	1770.8	2501.9	2038.6	912.9
82.5°	150.7	153.8	168.9	183.6	224.8	237.2	555.5	616.3	923.5	563.1	241.6
85°	140.1	143.6	149.0	133.9	144.1	139.2	240.3	251.4	278.9	221.2	101.1
87.5°	63.4	74.9	147.6	104.2	76.7	61.2	98.4	102.9	115.7	116.2	44.8
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°	1682.6	1682.6	1682.6	1682.6	1682.6	1682.6	1682.6	1682.6	1682.6	1682.6	1682.6
2.5°	1686.5	1685.2	1687.4	1682.1	1688.8	1688.3	1686.1	1687.0	1691.4	1691.0	1691.4
5°	1696.7	1695.9	1698.5	1694.5	1702.5	1705.2	1705.6	1709.6	1714.5	1715.8	1715.8
7.5°	1722.5	1722.5	1723.8	1718.5	1723.8	1723.3	1721.1	1725.1	1730.0	1730.4	1730.0
10°	1766.8	1767.2	1765.0	1751.3	1746.8	1734.9	1723.8	1724.2	1730.4	1735.3	1736.6
12.5°	1822.7	1820.9	1811.1	1785.9	1767.2	1742.9	1731.3	1730.9	1737.1	1741.1	1742.4
15°	1886.5	1881.6	1856.4	1815.1	1782.3	1758.4	1739.8	1735.3	1731.8	1727.3	1727.8
17.5°	1946.8	1935.7	1893.6	1836.4	1801.8	1769.9	1734.0	1705.2	1685.2	1673.7	1670.1
20°	2008.0	1986.3	1925.5	1856.4	1812.5	1754.4	1685.2	1626.7	1590.3	1573.5	1570.4
22.5°	2063.9	2028.8	1955.2	1877.2	1804.0	1702.1	1593.4	1508.3	1457.8	1435.2	1436.9
25°	2118.4	2069.6	1986.3	1891.8	1761.5	1609.8	1465.8	1361.1	1302.6	1277.3	1276.4
27.5°	2166.3	2110.8	2020.0	1879.9	1682.1	1478.6	1314.6	1212.6	1163.8	1142.1	1138.6
30°	2221.2	2162.7	2064.7	1834.2	1566.0	1327.0	1166.9	1095.1	1060.5	1038.8	1034.8
32.5°	2288.2	2233.2	2101.5	1751.3	1417.4	1168.7	1051.7	1001.6	970.1	945.7	941.3
35°	2385.7	2326.3	2110.8	1632.5	1254.3	1043.7	967.0	915.5	873.0	841.5	838.4
37.5°	2508.1	2442.9	2089.6	1478.6	1096.0	962.5	896.5	833.1	777.7	733.3	726.2
40°	2684.6	2586.1	2030.6	1301.3	979.4	900.0	827.8	755.5	686.8	634.9	624.7
42.5°	2896.5	2754.2	1940.2	1124.8	893.8	836.6	759.5	669.9	604.3	567.5	562.2
45°	3166.0	2928.8	1814.7	970.5	809.6	773.2	685.9	603.4	562.6	535.6	531.1
47.5°	3473.7	3124.8	1683.0	845.0	738.2	713.8	626.9	573.7	541.3	520.1	516.1
50°	3851.9	3346.1	1543.3	742.2	666.4	642.4	599.0	557.3	531.6	515.2	511.2
52.5°	4278.4	3595.7	1442.7	661.1	607.0	589.7	584.4	548.4	527.6	515.2	511.2
55°	4737.8	3849.7	1334.1	592.8	555.5	560.4	574.6	549.3	535.1	520.1	514.3
57.5°	5197.5	4112.2	1213.0	535.1	514.7	538.7	567.9	551.1	539.1	524.5	519.2
60°	5561.1	4278.4	1025.5	486.8	482.4	514.7	552.0	537.8	522.3	522.7	521.8
62.5°	5730.9	4269.6	818.4	443.8	450.0	482.4	526.3	517.0	504.1	521.4	522.7
65°	5635.6	4056.8	637.1	404.8	415.4	448.7	499.7	506.8	511.2	544.4	548.9
67.5°	5235.7	3642.7	493.5	370.7	384.0	425.6	502.3	552.0	557.7	592.8	592.3
69°	4822.0	3254.3	428.7	352.9	368.4	431.4	536.9	580.8	559.1	596.3	591.0
70°	4475.3	2947.0	394.1	340.9	361.3	441.6	560.0	580.4	552.4	584.4	575.5
72.5°	3446.7	2120.2	334.3	318.8	337.4	422.5	566.6	567.5	536.9	543.1	528.0
75°	2364.0	1339.8	291.7	288.6	301.0	380.8	545.3	542.2	496.6	487.7	475.3
77.5°	1303.5	680.6	247.8	259.8	268.2	337.4	495.7	491.2	453.6	434.9	430.5
80°	502.8	297.9	209.3	231.0	236.3	292.2	434.5	430.5	399.0	375.1	368.4
82.5°	189.8	156.1	172.9	200.0	198.2	241.2	368.0	365.8	335.2	300.2	289.5
85°	87.8	93.5	137.0	164.9	152.1	178.7	294.4	298.4	261.1	219.5	219.5
87.5°	37.2	52.3	97.1	124.6	102.4	120.6	215.9	206.2	189.3	131.2	123.3
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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