

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: P386720

Luminaire Tested: **GWC-SA2B-830-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P386720  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-SA2B-830-U-SL2-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7849 lumens  
Efficiency: N/A  
Efficacy: 92.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

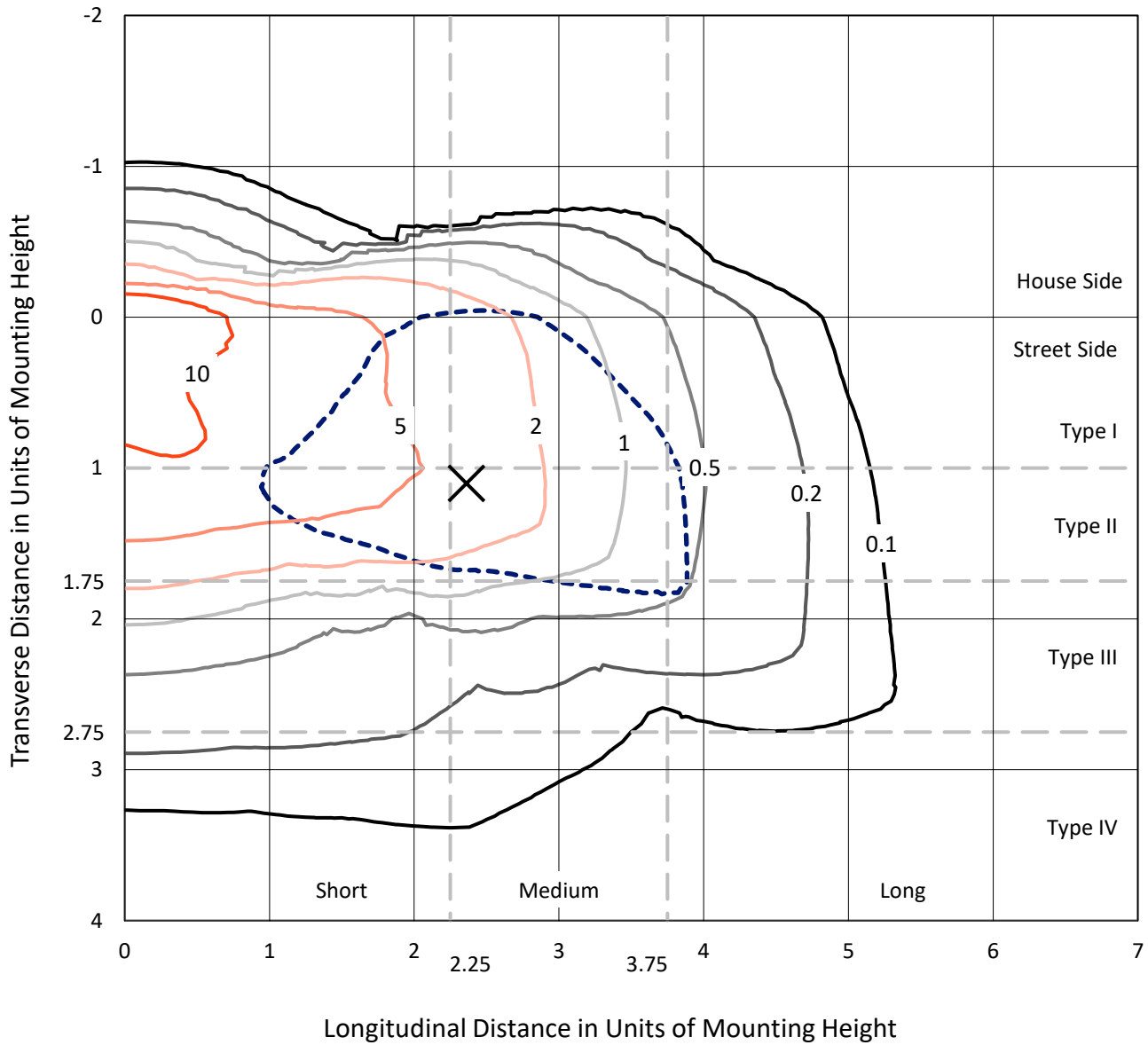
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

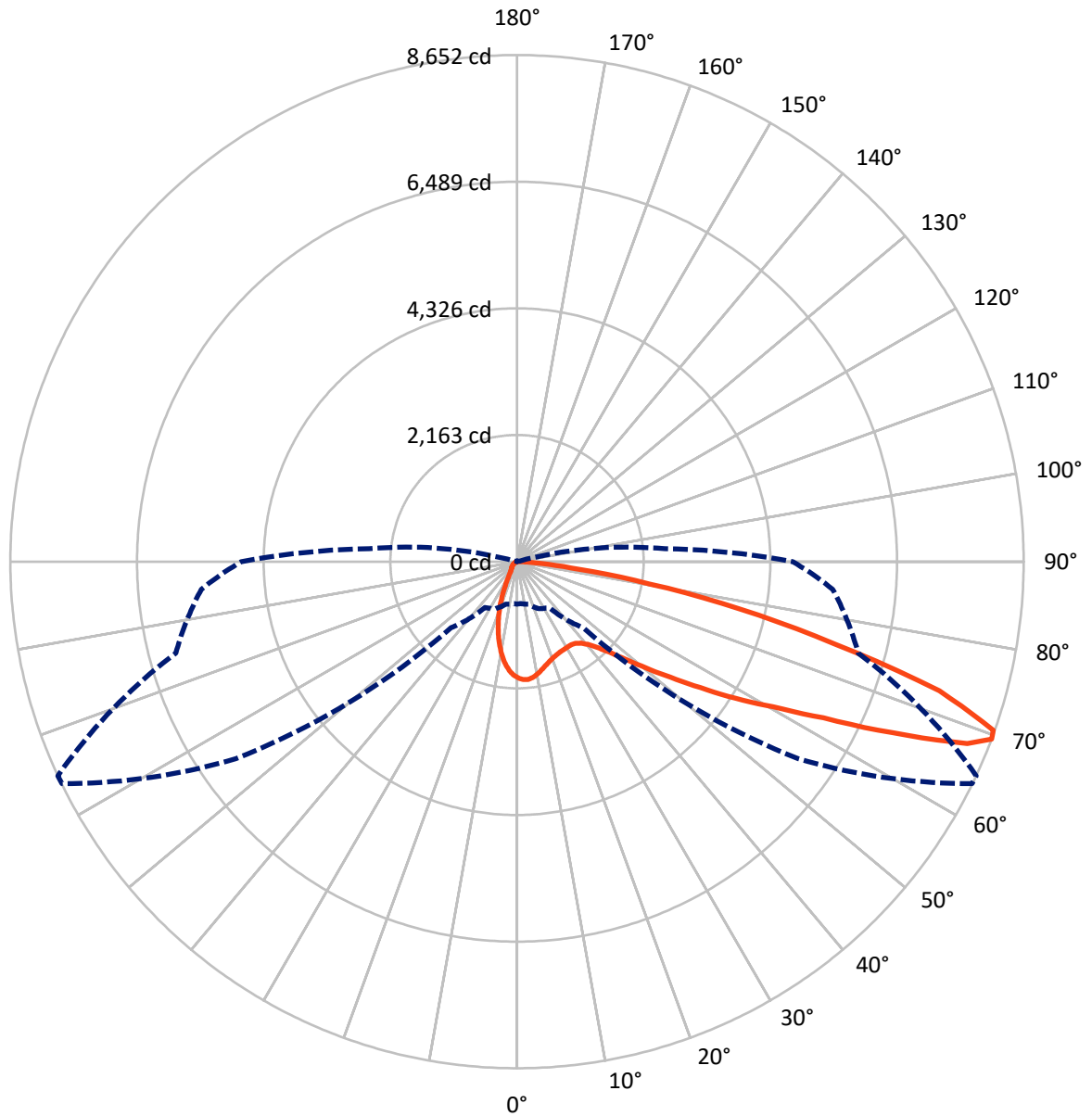
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical



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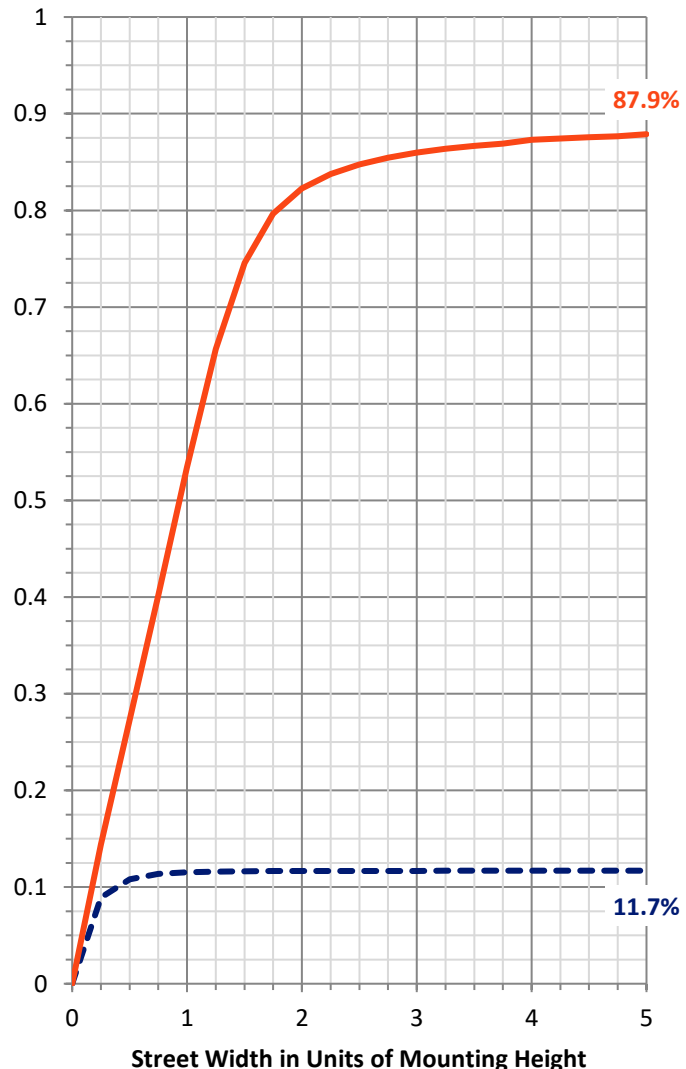
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	925.2	0.0	925.2
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	6923.8	0.0	6923.8
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	7849.0	0.0	7849.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.9	2.1
10°-20°	363.1	4.6
20°-30°	502.9	6.4
30°-40°	701.2	8.9
40°-50°	1089.8	13.9
50°-60°	1749.6	22.3
60°-70°	1979.1	25.2
70°-80°	1162.3	14.8
80°-90°	135.2	1.7
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°	7849.0	100.0
0°-180°	7849.0	100.0



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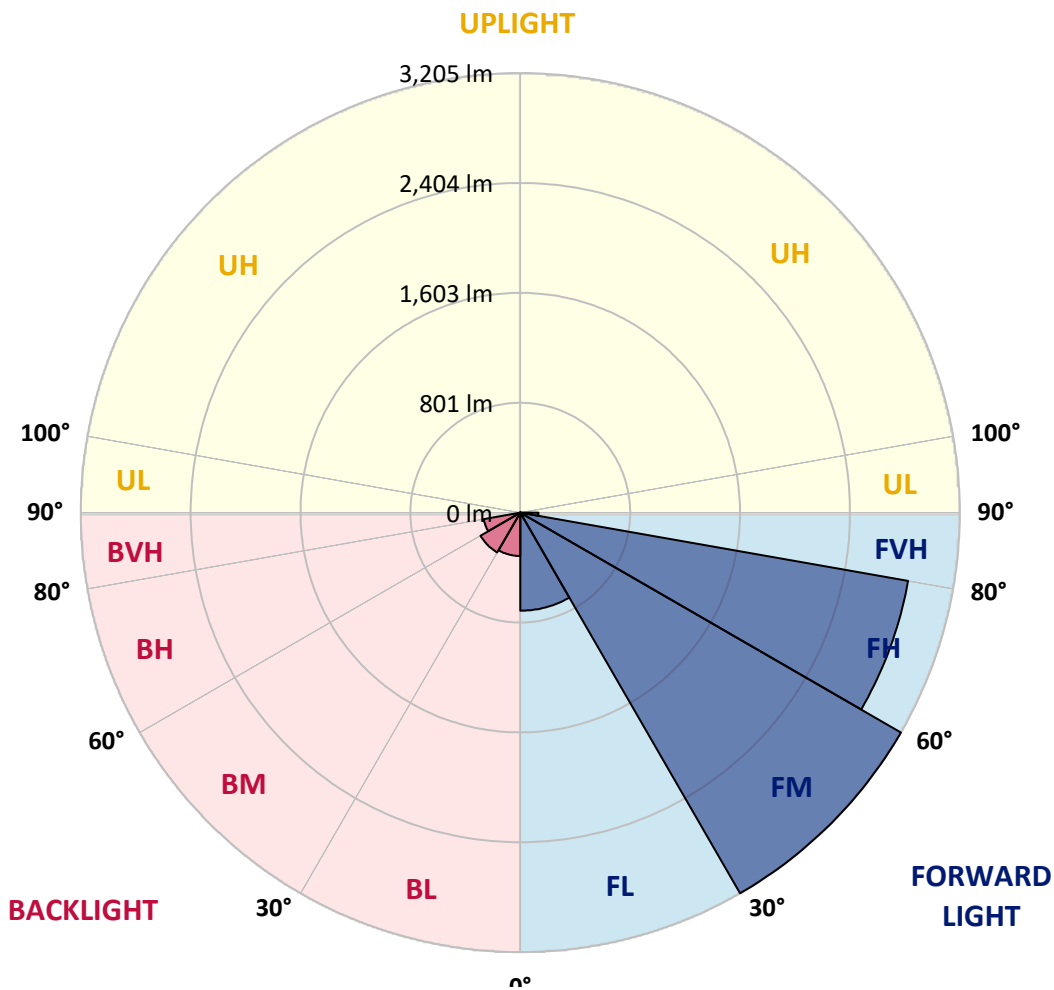
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	715.2	9.1			
FM (30°-60°)	3205.3	40.8			
FH (60°-80°)	2871.1	36.6			G2/5000
FVH (80°-90°)	132.2	1.7			G2/225
BL (0°-30°)	316.6	4.0	B1/500		
BM (30°-60°)	335.3	4.3	B1/1000		
BH (60°-80°)	270.3	3.4	B1/500		G1/500
BVH (80°-90°)	3.0	0.0			G0/10
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°	64°	65°	75°	85°
0°	1983.5	1983.5	1983.5	1983.5	1983.5	1983.5	1983.5	1983.5	1983.5	1983.5	1983.5
2.5°	2001.1	1996.1	2000.1	2008.7	2013.0	2013.0	2016.3	2012.4	2013.7	2004.0	1990.1
5°	1875.8	1868.2	1879.2	1903.4	1933.3	1958.9	1996.7	2016.7	2018.7	2019.0	2002.7
7.5°	1741.0	1734.0	1750.3	1778.9	1817.4	1864.9	1931.0	1988.8	1992.1	2023.3	2011.4
10°	1631.4	1626.4	1645.4	1675.9	1721.1	1774.2	1855.3	1935.6	1945.3	2014.3	2010.0
12.5°	1544.4	1540.4	1558.3	1593.5	1639.7	1698.5	1783.2	1876.5	1889.5	1994.1	2003.4
15°	1480.9	1480.3	1495.2	1529.1	1580.3	1635.1	1721.7	1821.7	1836.7	1972.2	2002.4
17.5°	1447.7	1448.7	1459.7	1488.6	1532.4	1586.9	1669.9	1775.5	1791.8	1952.6	2007.4
20°	1444.4	1445.4	1451.4	1467.7	1503.2	1551.4	1627.7	1736.7	1753.6	1938.0	2015.3
22.5°	1473.6	1473.0	1474.6	1473.0	1492.9	1529.4	1599.9	1706.8	1726.4	1928.3	2021.7
25°	1529.8	1528.8	1528.1	1515.8	1502.5	1522.1	1588.2	1689.9	1708.5	1921.3	2025.3
27.5°	1607.8	1607.2	1606.2	1585.9	1546.0	1533.8	1589.6	1683.5	1699.2	1915.7	2024.6
30°	1710.4	1715.1	1713.8	1685.5	1623.4	1569.3	1603.5	1680.2	1693.8	1904.7	2017.7
32.5°	1831.0	1840.3	1847.6	1817.4	1739.7	1639.7	1635.7	1683.9	1693.8	1896.4	2005.0
35°	1956.2	1968.2	1995.1	1984.5	1882.2	1745.7	1691.2	1705.8	1714.1	1901.1	1999.1
37.5°	2079.4	2093.7	2152.2	2183.1	2068.8	1885.8	1777.5	1759.9	1764.3	1929.3	2005.7
40°	2222.6	2244.2	2332.9	2382.7	2291.7	2073.5	1906.7	1852.9	1854.6	1991.4	2036.6
42.5°	2410.6	2432.8	2528.8	2606.9	2542.8	2310.6	2082.1	1995.1	1993.4	2107.7	2109.3
45°	2639.7	2663.0	2762.3	2849.0	2820.1	2591.6	2306.6	2202.7	2200.7	2291.0	2247.2
47.5°	2899.5	2922.4	3011.1	3100.4	3131.6	2919.7	2592.6	2486.0	2481.3	2545.7	2460.1
50°	3122.3	3137.3	3219.0	3339.2	3480.0	3322.9	2948.3	2845.7	2840.7	2884.2	2772.6
52.5°	3203.4	3212.0	3295.0	3463.4	3814.8	3868.9	3415.6	3283.4	3279.7	3298.7	3188.7
55°	3039.3	3054.9	3156.9	3406.6	3996.1	4486.0	4005.4	3825.4	3797.9	3757.0	3623.8
57.5°	2592.2	2617.2	2726.8	3058.9	3911.4	4975.6	4872.3	4438.5	4398.0	4148.3	3977.5
60°	1942.3	1972.8	2063.8	2422.2	3459.4	5149.9	5819.5	5121.7	5030.4	4459.8	4302.7
62.5°	1332.8	1348.1	1409.9	1643.4	2547.7	4864.3	6612.0	6036.7	5870.0	4798.6	4654.4
65°	1018.0	1023.3	1048.5	1128.9	1517.2	3951.3	6927.2	7244.0	7042.4	5203.7	5019.4
67.5°	820.4	816.0	850.9	965.8	1016.0	2410.6	6559.5	8386.2	8291.9	5745.4	5386.8
69°	723.4	717.4	752.9	886.4	954.2	1593.5	5864.0	8645.6	8651.5	6031.4	5412.0
70°	651.0	655.0	690.2	839.3	933.3	1250.8	5199.8	8579.5	8626.6	6138.4	5260.5
72.5°	434.8	445.4	516.1	696.8	897.4	946.6	3139.6	7362.2	7543.6	5897.6	4513.3
75°	245.1	253.1	337.1	525.4	845.6	901.4	1658.3	5423.9	5599.3	4931.7	3480.3
77.5°	120.2	124.5	190.6	339.1	707.1	858.9	940.6	3684.3	3884.5	3219.0	1968.5
80°	50.8	53.1	95.3	209.2	505.5	819.7	698.5	2267.4	2292.3	1261.1	524.4
82.5°	19.6	20.3	40.2	130.5	321.2	639.0	584.2	1075.1	1049.2	237.5	119.6
85°	2.3	2.7	14.6	78.4	178.7	328.8	474.6	463.3	428.8	47.2	61.4
87.5°	0.0	0.0	1.0	23.9	53.1	154.1	246.8	192.3	173.4	15.3	31.9
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°	1983.5	1983.5	1983.5	1983.5	1983.5	1983.5	1983.5	1983.5	1983.5	1983.5	1983.5
2.5°	1978.5	1975.2	1957.2	1931.3	1906.7	1876.2	1847.0	1829.3	1815.4	1806.1	1817.1
5°	1983.8	1969.2	1914.7	1845.0	1776.5	1699.5	1627.7	1567.0	1543.1	1516.5	1528.4
7.5°	1982.1	1954.6	1856.6	1732.4	1606.8	1477.0	1354.1	1259.4	1210.3	1162.1	1174.4
10°	1973.8	1927.3	1778.9	1594.9	1406.9	1220.2	1045.9	913.3	839.3	772.2	781.8
12.5°	1955.6	1890.8	1687.2	1437.4	1186.0	939.9	735.7	565.9	474.9	434.8	439.7
15°	1944.6	1855.3	1590.2	1278.0	950.2	654.6	449.7	334.5	292.9	279.7	281.3
17.5°	1939.3	1821.0	1489.9	1095.7	709.1	416.8	290.6	256.4	247.4	245.1	245.8
20°	1934.0	1786.5	1386.6	915.3	488.6	280.3	238.8	228.8	225.5	222.5	223.2
22.5°	1925.0	1753.3	1275.7	732.7	329.5	227.5	215.2	205.6	198.6	195.0	195.6
25°	1914.0	1718.4	1162.4	545.7	240.5	202.9	191.3	177.7	169.4	162.7	163.1
27.5°	1896.4	1675.6	1045.5	397.2	201.9	181.7	166.1	151.1	137.2	129.5	129.5
30°	1871.9	1627.1	915.7	284.3	181.0	160.7	141.8	123.2	108.3	101.3	100.6
32.5°	1844.6	1576.6	784.5	215.5	164.4	141.2	119.6	100.0	86.7	81.0	80.7
35°	1821.4	1522.1	653.6	180.7	147.8	122.2	98.6	82.0	71.4	66.8	66.4
37.5°	1806.4	1467.7	526.1	161.4	132.9	104.6	82.7	67.8	60.1	56.5	56.1
40°	1804.1	1427.1	409.5	146.8	118.9	89.0	69.1	57.5	50.5	46.5	46.2
42.5°	1834.3	1403.9	314.2	134.5	104.6	75.4	58.8	49.2	41.8	37.9	37.5
45°	1913.7	1411.2	241.8	123.6	90.3	63.8	49.8	40.9	34.2	31.2	30.6
47.5°	2058.5	1461.7	192.3	112.6	76.7	54.1	42.5	33.9	28.2	25.2	24.9
50°	2316.2	1580.3	160.7	100.6	64.1	46.2	35.2	27.6	22.9	20.3	19.9
52.5°	2658.3	1791.5	143.5	89.0	53.1	39.2	28.9	21.9	17.9	15.9	15.6
55°	3035.6	2047.2	132.2	76.4	43.5	32.5	22.9	17.3	13.9	12.3	11.6
57.5°	3404.0	2268.8	121.6	64.1	36.2	26.6	18.3	13.6	11.0	9.3	9.0
60°	3742.4	2472.3	109.3	51.5	29.6	20.9	14.3	10.6	8.6	7.0	7.0
62.5°	4104.7	2629.8	92.3	40.2	24.2	15.9	11.6	9.6	7.0	6.0	5.6
65°	4488.7	2746.7	72.4	31.2	18.9	12.0	9.6	10.0	5.6	4.3	4.0
67.5°	4772.3	2723.4	53.5	24.6	14.6	9.3	9.3	10.6	5.0	3.3	3.0
69°	4709.9	2534.5	44.8	21.3	12.6	8.0	8.6	10.6	4.6	3.0	2.7
70°	4528.9	2325.2	39.5	18.9	11.3	7.3	8.3	10.3	4.3	3.0	2.7
72.5°	3771.6	1751.3	30.9	14.3	9.0	6.0	7.0	9.0	4.3	3.0	2.3
75°	2837.0	1120.9	23.6	10.3	6.6	4.6	5.3	6.6	4.3	2.7	2.3
77.5°	1543.7	404.2	16.9	7.0	4.6	3.7	3.7	5.0	4.0	2.0	1.3
80°	396.9	101.6	10.6	4.6	3.7	2.7	2.3	3.3	2.3	0.3	0.0
82.5°	98.0	22.9	5.6	3.3	2.7	1.0	1.0	1.7	1.0	0.0	0.0
85°	53.8	11.3	3.7	2.3	1.3	0.0	0.0	0.3	0.0	0.0	0.0
87.5°	27.6	3.3	1.0	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0
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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