

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: P386389

Luminaire Tested: **GWC-SA2A-740-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P386389  
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-SA2A-740-U-SL4  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 4000K, 615mA 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: 9239 lumens  
Efficiency: N/A  
Efficacy: 140.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

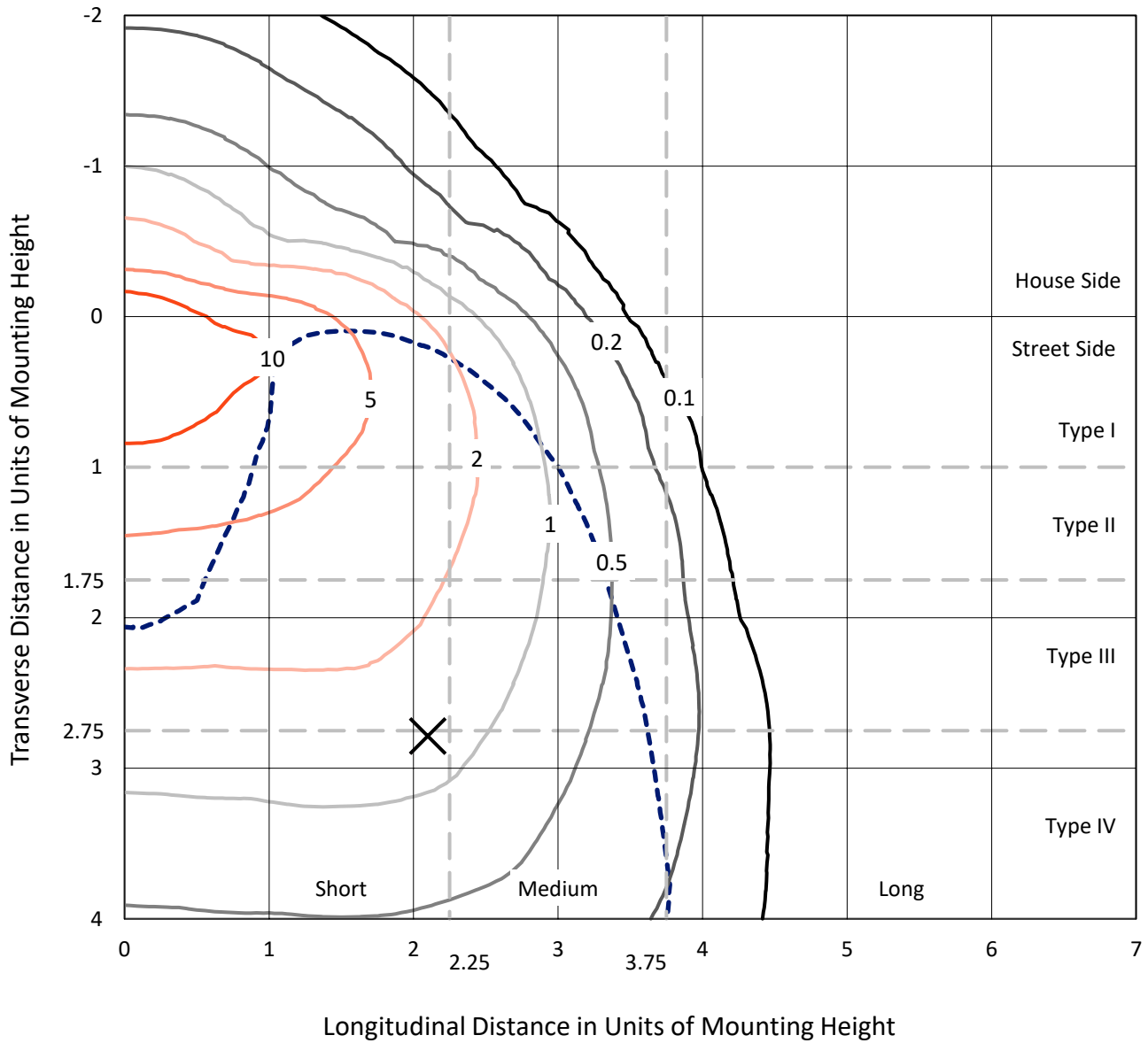
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

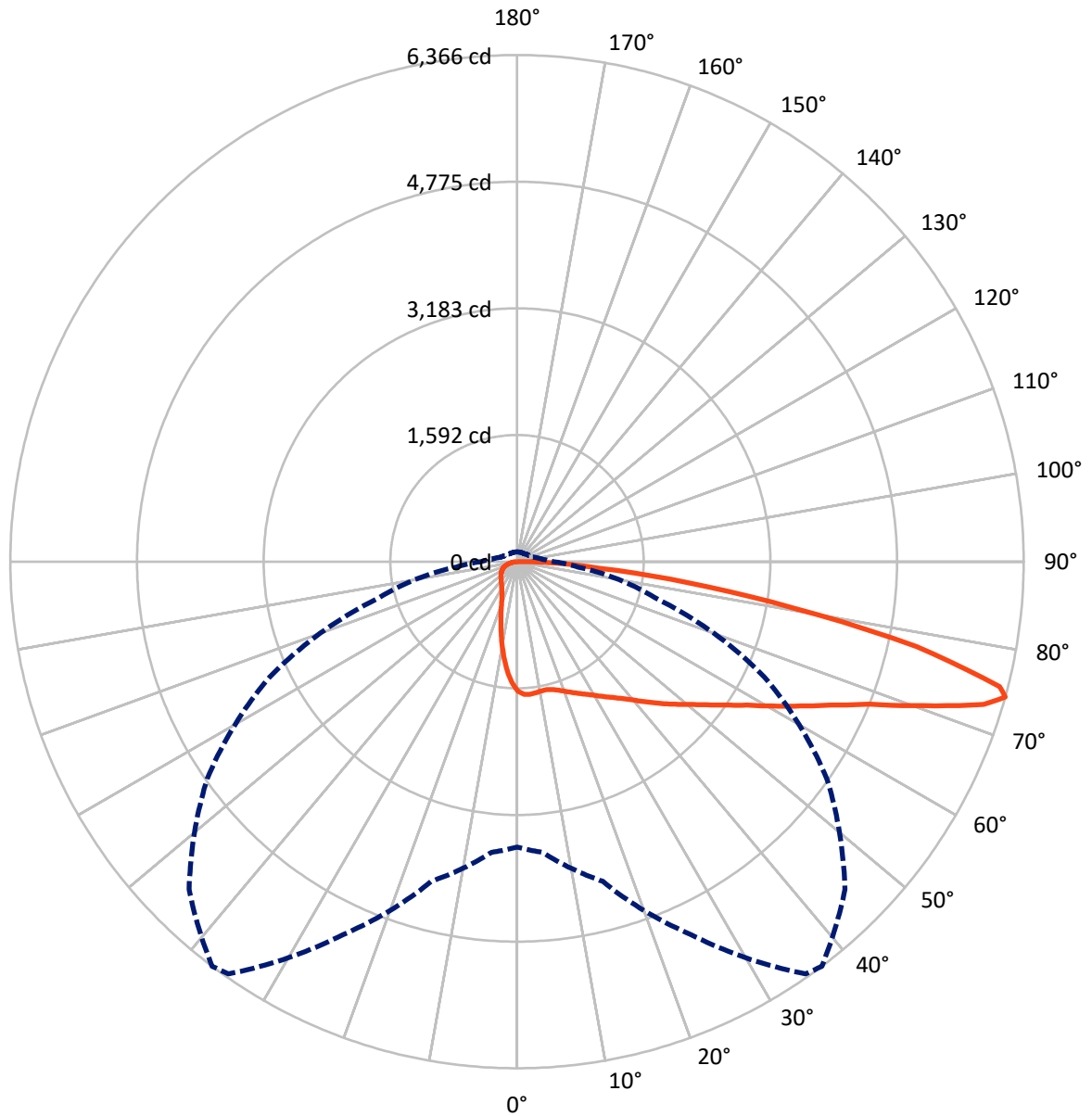
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.5 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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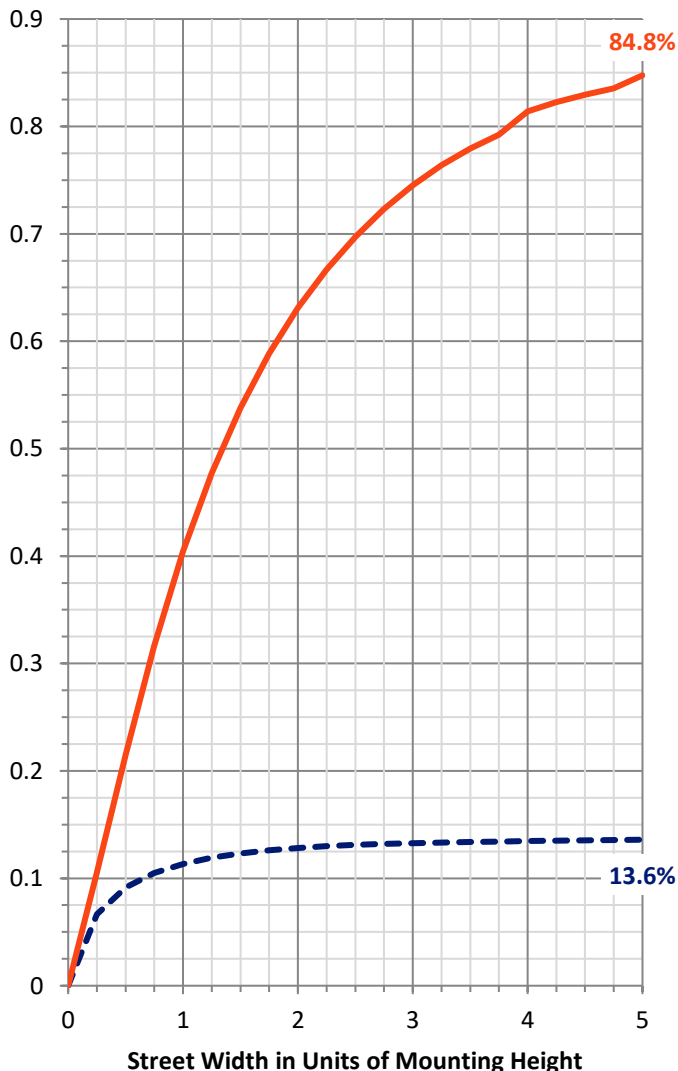
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1271.2	0.0	1271.2
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	7967.8	0.0	7967.8
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	9239.0	0.0	9239.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.4	1.6
10°-20°	367.5	4.0
20°-30°	566.2	6.1
30°-40°	823.3	8.9
40°-50°	1211.7	13.1
50°-60°	1701.7	18.4
60°-70°	2153.8	23.3
70°-80°	1896.5	20.5
80°-90°	375.0	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°	9239.0	100.0
0°-180°	9239.0	100.0

**Coefficient of Utilization**



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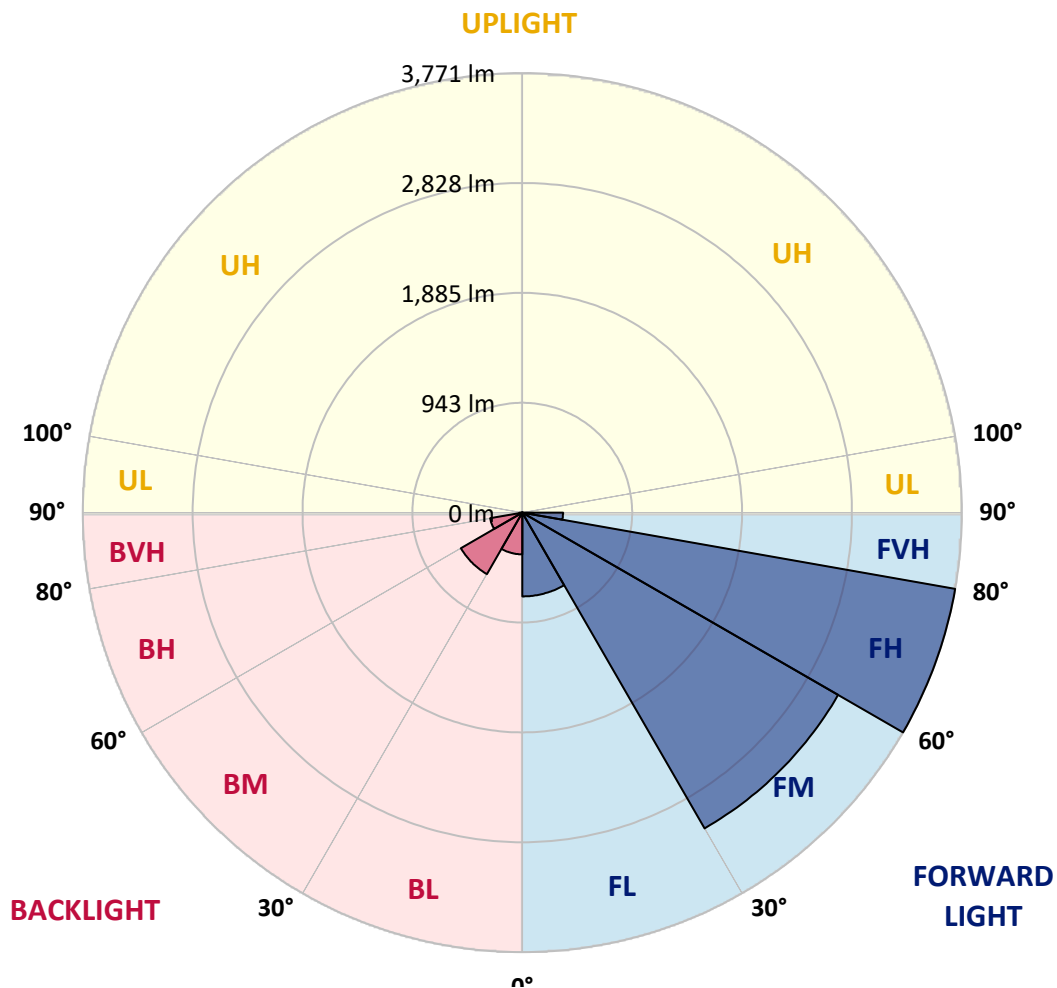
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	718.9	7.8			
FM (30°-60°)	3128.4	33.9			
FH (60°-80°)	3770.9	40.8			G2/5000
FVH (80°-90°)	349.6	3.8			G3/500
BL (0°-30°)	358.1	3.9	B1/500		
BM (30°-60°)	608.3	6.6	B1/1000		
BH (60°-80°)	279.4	3.0	B1/500		G1/500
BVH (80°-90°)	25.4	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°	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9
2.5°	1683.5	1683.9	1683.5	1680.9	1674.7	1669.5	1665.3	1659.1	1645.5	1635.0	1619.4
5°	1699.5	1697.5	1696.2	1691.3	1681.6	1675.7	1667.6	1655.9	1633.4	1612.6	1587.2
7.5°	1692.0	1689.7	1686.8	1680.9	1669.9	1665.0	1653.6	1638.3	1611.3	1583.9	1547.5
10°	1668.9	1668.2	1666.9	1665.6	1656.2	1652.3	1641.9	1625.6	1598.9	1565.7	1523.1
12.5°	1643.2	1644.8	1650.0	1656.8	1652.6	1650.7	1644.1	1633.1	1605.7	1569.9	1518.5
15°	1626.9	1631.5	1645.5	1663.3	1666.9	1666.3	1664.7	1657.5	1628.5	1588.8	1528.9
17.5°	1621.4	1628.9	1655.5	1685.2	1695.6	1697.8	1698.5	1686.1	1653.9	1611.9	1539.7
20°	1631.5	1640.9	1679.9	1720.6	1737.2	1738.5	1735.6	1714.1	1678.0	1631.8	1545.5
22.5°	1662.0	1670.5	1719.3	1765.2	1784.1	1786.0	1777.3	1744.7	1703.4	1655.2	1553.7
25°	1721.0	1731.4	1780.2	1826.1	1835.8	1836.2	1823.5	1783.1	1736.6	1688.1	1571.2
27.5°	1797.8	1808.2	1852.1	1897.0	1891.8	1888.9	1871.6	1831.3	1779.9	1733.3	1602.5
30°	1883.4	1894.7	1936.4	1968.3	1955.9	1950.1	1936.1	1884.0	1840.1	1795.2	1650.3
32.5°	1971.9	1982.3	2018.7	2040.5	2024.9	2022.3	2001.2	1953.6	1918.5	1889.5	1727.8
35°	2062.7	2070.2	2106.0	2118.3	2097.5	2096.8	2091.0	2047.4	2025.2	2038.9	1840.4
37.5°	2155.4	2157.4	2188.0	2188.6	2182.4	2185.0	2191.2	2163.9	2170.1	2212.7	1986.8
40°	2238.1	2243.3	2265.4	2272.3	2283.0	2292.1	2323.0	2305.1	2353.0	2428.5	2169.1
42.5°	2299.3	2309.4	2344.8	2362.4	2397.2	2411.5	2455.2	2471.8	2568.1	2681.3	2385.8
45°	2351.0	2366.6	2423.6	2459.7	2518.6	2543.7	2606.2	2661.8	2811.2	2955.7	2614.0
47.5°	2407.0	2426.8	2498.1	2567.1	2647.2	2675.5	2789.1	2872.4	3070.6	3231.7	2829.1
50°	2489.3	2504.6	2574.3	2682.6	2782.6	2819.0	2976.2	3095.6	3334.2	3494.6	3015.6
52.5°	2604.2	2598.4	2657.3	2809.2	2943.3	2988.2	3176.0	3333.2	3601.4	3732.5	3173.1
55°	2719.7	2710.0	2751.3	2941.7	3130.8	3178.0	3396.0	3571.8	3855.5	3946.7	3293.8
57.5°	2848.3	2829.7	2864.6	3091.1	3344.3	3400.6	3642.4	3825.3	4105.5	4119.8	3370.6
60°	2980.8	2955.7	2994.7	3276.3	3615.4	3681.8	3930.7	4072.6	4341.1	4258.4	3395.4
62.5°	3096.6	3079.0	3139.2	3482.9	3921.0	3993.9	4213.9	4335.6	4573.5	4316.1	3306.2
65°	3197.8	3200.8	3304.9	3715.3	4261.7	4339.5	4538.7	4659.7	4756.4	4281.9	3097.6
67.5°	3318.6	3335.2	3512.9	4021.2	4690.6	4775.9	5011.2	5013.2	4858.6	4081.4	2686.9
70°	3494.6	3528.8	3798.9	4445.6	5300.5	5417.7	5599.3	5220.8	4715.0	3537.9	2114.1
72.5°	3650.8	3714.6	4103.2	4931.1	6043.8	6132.7	5943.3	5101.0	4115.3	2651.4	1317.1
74°	3587.4	3666.5	4158.5	5170.3	6323.7	6366.4	5827.1	4751.5	3431.2	1836.2	765.4
75°	3450.7	3536.6	4077.8	5168.1	6288.2	6264.5	5546.6	4352.2	2825.8	1252.3	509.3
77.5°	2784.8	2875.6	3436.0	4429.3	5156.0	5133.6	4260.7	2919.6	1237.7	410.7	258.7
80°	1619.1	1688.4	2133.0	2812.8	3476.7	3517.4	2802.1	1444.7	486.9	230.7	175.4
82.5°	719.2	767.1	1030.4	1435.9	2098.1	2150.5	1467.4	757.0	300.7	140.3	105.4
85°	471.9	507.4	625.5	683.8	999.1	1034.9	718.3	589.4	198.5	77.1	77.5
87.5°	339.4	373.6	464.7	405.8	458.6	434.1	390.9	545.4	79.7	43.9	26.0
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°	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9
2.5°	1612.6	1607.4	1595.7	1573.5	1561.2	1550.7	1533.5	1523.4	1518.9	1518.5	1520.5
5°	1572.6	1560.5	1530.2	1493.1	1463.5	1436.5	1403.0	1382.8	1368.5	1360.0	1362.3
7.5°	1526.0	1507.1	1459.6	1400.4	1352.9	1300.5	1248.7	1217.8	1193.7	1175.8	1179.1
10°	1494.1	1468.1	1398.8	1313.5	1234.4	1158.3	1087.0	1044.4	1010.5	984.5	986.4
12.5°	1483.4	1448.2	1352.2	1238.3	1127.3	1023.2	930.1	864.7	829.9	800.3	802.5
15°	1485.0	1437.8	1313.2	1170.6	1031.0	899.9	786.9	710.4	663.3	642.8	643.1
17.5°	1486.3	1425.8	1272.2	1098.1	935.7	784.6	662.0	584.5	539.9	521.0	521.4
20°	1482.1	1406.2	1221.4	1014.7	836.1	678.9	560.1	494.4	460.5	445.9	445.9
22.5°	1476.5	1383.1	1164.1	931.1	737.8	587.1	487.2	437.1	417.5	407.8	407.5
25°	1479.1	1365.9	1105.5	845.2	647.3	513.9	438.7	405.5	392.5	386.3	386.0
27.5°	1493.1	1357.8	1051.5	759.6	568.2	458.9	406.2	382.7	374.3	370.4	370.4
30°	1518.5	1357.8	995.2	686.7	502.5	418.2	381.1	365.1	359.3	356.7	356.7
32.5°	1562.8	1365.2	940.9	614.4	450.1	386.3	360.3	349.5	345.0	343.7	343.7
35°	1638.9	1390.6	887.8	546.1	407.8	360.3	340.4	334.2	331.0	330.7	331.6
37.5°	1746.0	1442.4	838.0	495.7	377.8	339.1	323.8	318.9	317.0	318.6	319.9
40°	1880.7	1512.7	792.8	450.1	355.1	322.2	308.5	305.3	304.3	306.6	308.5
42.5°	2043.5	1607.7	755.7	417.2	337.5	307.9	295.5	291.6	290.6	293.2	295.8
45°	2219.5	1709.9	729.6	392.8	323.8	297.1	284.1	279.9	277.9	279.2	282.2
47.5°	2379.7	1806.5	719.2	375.6	310.8	288.0	274.0	268.8	265.6	264.9	267.2
50°	2514.7	1878.5	724.1	365.1	300.4	277.9	264.3	258.4	253.5	250.6	252.2
52.5°	2613.0	1923.7	728.7	360.6	292.2	266.9	253.5	248.0	241.5	236.6	236.6
55°	2684.3	1934.1	718.6	357.0	286.1	254.8	241.5	236.3	229.8	224.2	223.6
57.5°	2712.3	1904.8	681.2	351.8	281.8	243.4	228.8	224.9	219.3	212.8	212.5
60°	2674.5	1814.4	608.9	340.7	276.3	234.0	216.1	213.5	210.9	204.7	204.4
62.5°	2522.8	1615.8	515.5	318.3	265.2	223.9	204.4	205.7	206.0	201.8	201.1
65°	2247.8	1343.1	424.4	289.0	248.6	211.9	192.3	198.5	202.1	201.5	200.5
67.5°	1848.2	1045.3	359.6	258.1	226.8	195.3	179.3	186.5	189.4	191.7	191.0
70°	1371.8	737.1	297.5	225.5	200.5	175.7	162.4	166.0	164.0	166.6	167.6
72.5°	764.8	442.3	242.5	193.0	173.1	153.0	143.5	142.9	138.6	138.6	138.6
74°	458.9	324.5	213.2	172.8	156.5	138.0	129.9	126.9	123.0	123.3	123.0
75°	369.1	278.9	195.6	159.5	144.8	129.2	121.1	117.2	114.2	114.2	113.9
77.5°	233.0	211.9	157.5	126.9	115.9	106.4	100.9	95.7	95.7	95.4	95.0
80°	176.1	168.6	122.7	96.0	88.8	81.7	78.1	75.8	75.8	76.8	76.5
82.5°	120.7	126.9	86.2	67.0	63.5	58.3	57.6	57.9	57.0	55.7	55.3
85°	88.2	95.4	58.3	42.3	38.7	35.5	38.1	39.4	37.8	34.8	33.5
87.5°	33.8	62.5	31.2	17.6	16.3	14.0	16.3	16.9	18.2	14.3	14.6
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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