

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: P386469

Luminaire Tested: **GWC-SA2A-827-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P386469  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-SA2A-827-U-SL2  
Description: GALLEON WALL LUMINAIRE  
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7004 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

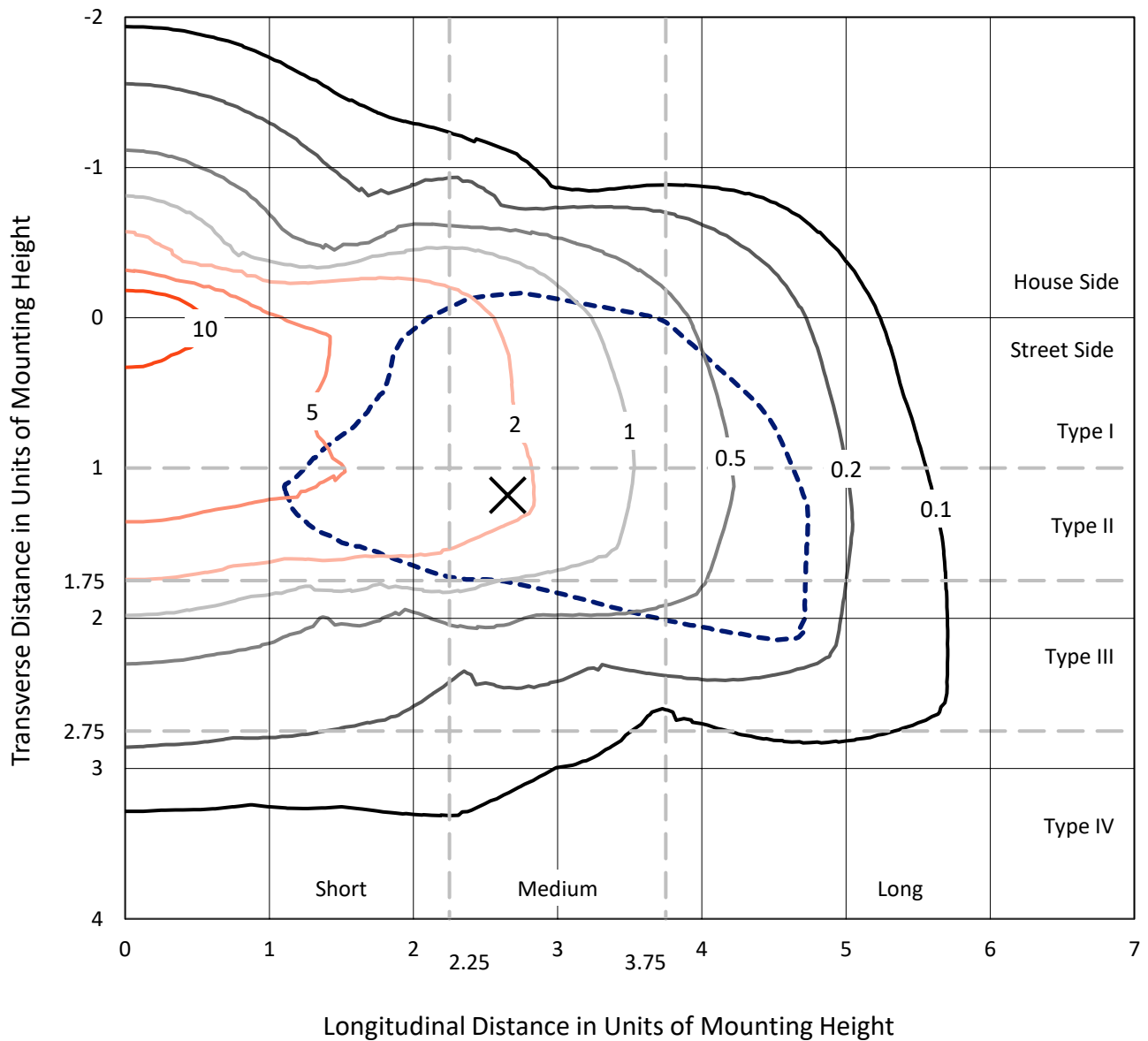
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

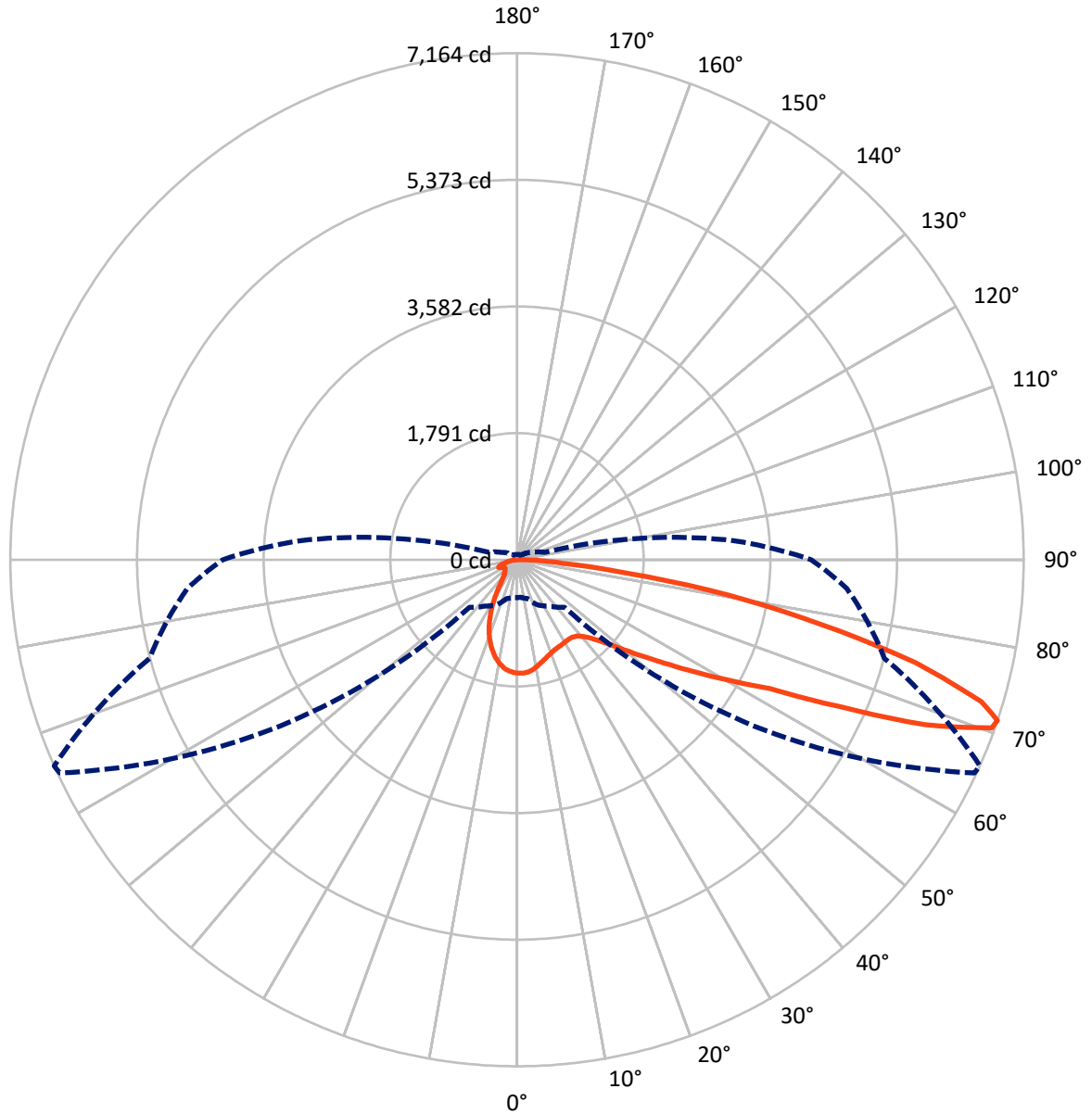
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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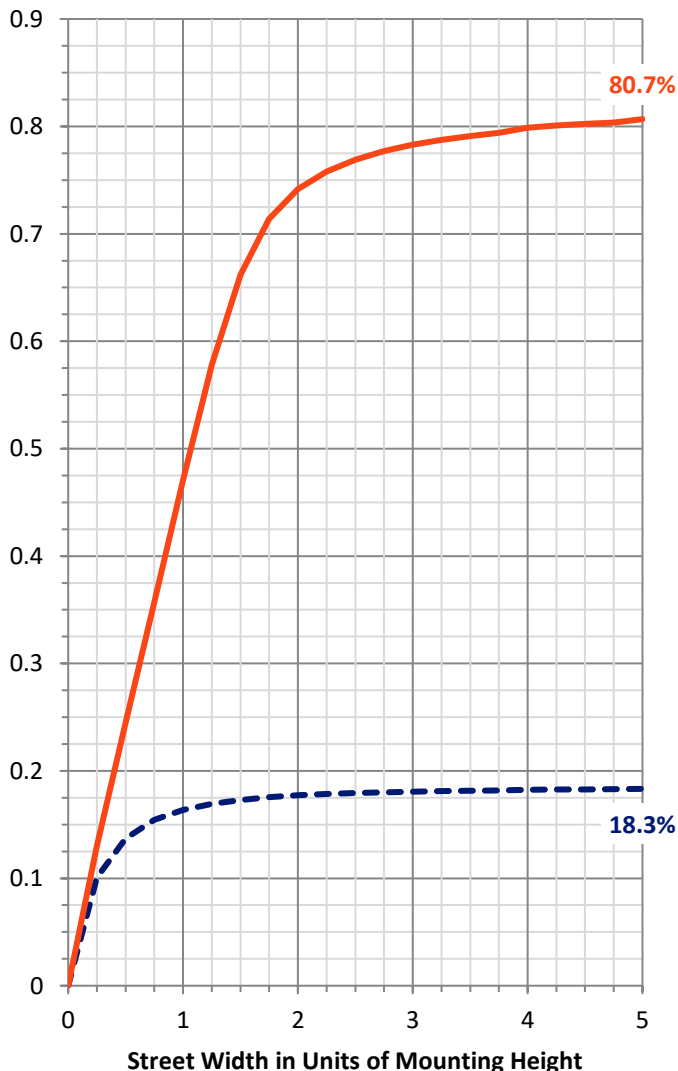
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1298.0	0.0	1298.0
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	5706.0	0.0	5706.0
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	7004.0	0.0	7004.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.2	2.0
10°-20°	338.7	4.8
20°-30°	455.0	6.5
30°-40°	598.6	8.5
40°-50°	870.7	12.4
50°-60°	1360.2	19.4
60°-70°	1703.9	24.3
70°-80°	1299.7	18.6
80°-90°	236.0	3.4
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°	7004.0	100.0
0°-180°	7004.0	100.0

**Coefficient of Utilization**



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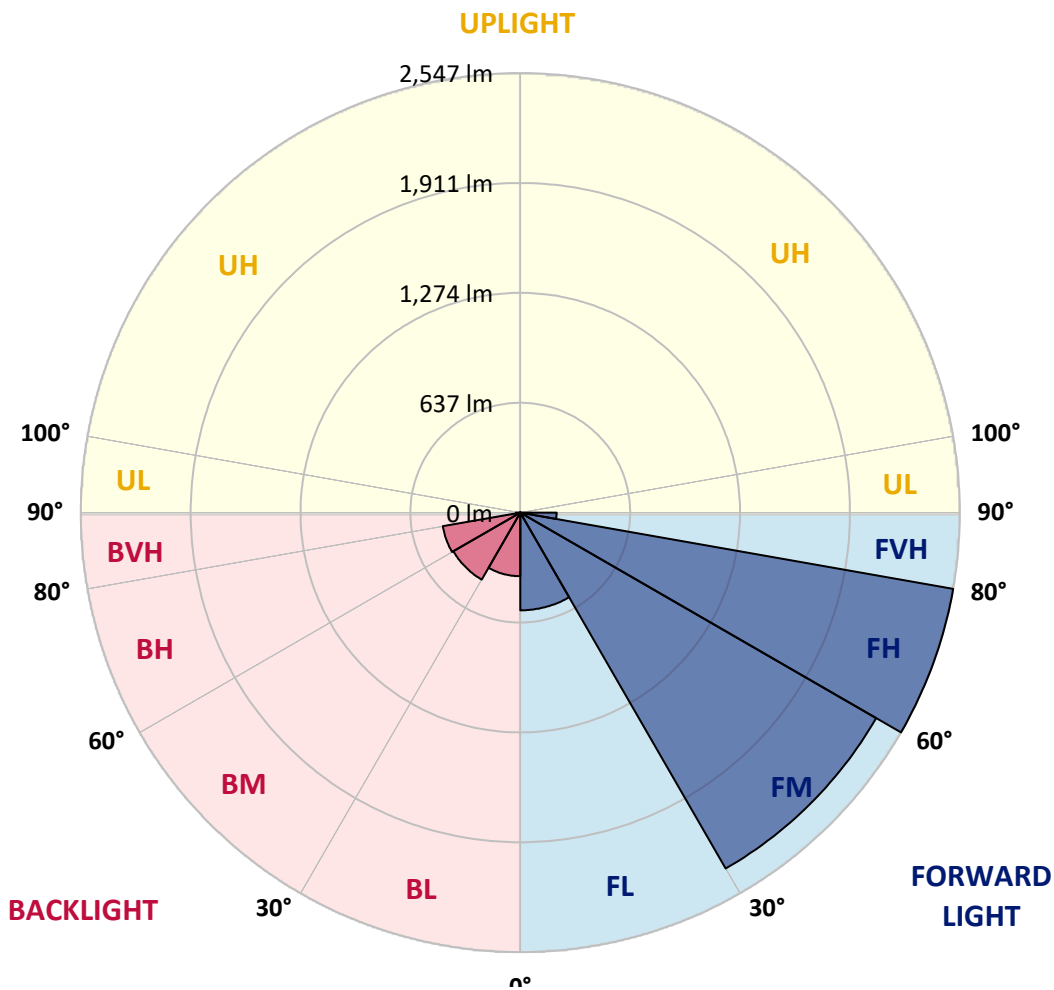
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	566.4	8.1			
FM (30°-60°)	2381.7	34.0			
FH (60°-80°)	2547.4	36.4			G2/5000
FVH (80°-90°)	210.5	3.0			G2/225
BL (0°-30°)	368.6	5.3	B1/500		
BM (30°-60°)	447.8	6.4	B1/1000		
BH (60°-80°)	456.1	6.5	B1/500		G1/500
BVH (80°-90°)	25.5	0.4			G1/100
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°	65°	66°	75°	85°
0°	1604.5	1604.5	1604.5	1604.5	1604.5	1604.5	1604.5	1604.5	1604.5	1604.5	1604.5
2.5°	1574.7	1572.3	1579.6	1587.1	1590.0	1594.8	1602.1	1606.2	1605.9	1606.7	1604.2
5°	1470.3	1467.1	1481.6	1493.5	1516.2	1541.8	1573.0	1595.3	1595.8	1608.3	1611.7
7.5°	1371.4	1369.2	1385.9	1405.0	1431.3	1470.5	1521.1	1568.9	1571.8	1605.9	1617.8
10°	1292.0	1291.6	1307.8	1328.6	1359.3	1403.0	1461.1	1531.2	1535.6	1594.3	1618.7
12.5°	1230.1	1231.1	1245.1	1268.8	1301.2	1346.9	1409.8	1488.9	1495.9	1575.9	1613.2
15°	1184.4	1188.3	1199.7	1223.6	1255.5	1302.0	1366.5	1449.7	1460.4	1555.4	1610.0
17.5°	1158.3	1162.7	1170.7	1190.5	1220.5	1265.2	1326.4	1417.6	1427.2	1539.7	1610.3
20°	1150.6	1154.2	1158.8	1170.9	1196.3	1236.9	1294.7	1388.5	1398.9	1527.1	1612.7
22.5°	1165.8	1168.5	1169.0	1168.0	1183.5	1216.6	1271.7	1367.3	1378.4	1518.9	1614.4
25°	1198.5	1202.1	1199.4	1190.5	1185.4	1205.7	1259.9	1353.2	1364.4	1512.8	1611.0
27.5°	1247.6	1248.0	1245.9	1234.3	1210.3	1206.9	1256.3	1345.0	1355.6	1505.8	1604.0
30°	1314.3	1317.4	1313.6	1297.9	1258.7	1226.3	1260.6	1337.0	1346.7	1496.9	1592.6
32.5°	1392.4	1400.1	1399.9	1383.5	1327.4	1269.6	1278.5	1332.2	1339.7	1487.4	1578.8
35°	1473.4	1484.1	1503.9	1496.9	1427.5	1338.0	1312.8	1339.9	1345.0	1486.2	1569.2
37.5°	1557.6	1568.2	1609.1	1627.9	1546.7	1435.9	1367.0	1367.3	1369.7	1501.0	1568.4
40°	1645.6	1657.0	1718.4	1767.5	1701.2	1560.0	1454.3	1424.3	1421.7	1537.3	1582.7
42.5°	1768.9	1779.1	1852.8	1915.5	1872.7	1718.9	1575.0	1512.3	1506.8	1608.3	1628.4
45°	1924.9	1933.6	2011.9	2078.9	2056.9	1900.2	1726.6	1633.5	1632.5	1726.8	1721.0
47.5°	2110.4	2117.1	2187.5	2252.3	2260.3	2108.9	1917.2	1820.4	1804.7	1889.3	1864.4
50°	2303.6	2311.1	2359.0	2428.6	2487.9	2388.2	2162.4	2049.4	2028.4	2103.8	2067.6
52.5°	2431.5	2441.4	2483.0	2571.3	2743.7	2694.4	2452.3	2327.0	2295.1	2363.8	2336.0
55°	2374.4	2396.7	2460.3	2601.7	2948.3	3162.0	2810.0	2650.8	2614.8	2671.9	2655.4
57.5°	2115.0	2145.4	2232.2	2450.6	2977.1	3574.1	3350.7	3032.2	3006.8	2990.4	2997.9
60°	1640.8	1670.0	1777.6	2062.2	2776.6	3874.9	4164.4	3502.3	3465.5	3310.0	3316.8
62.5°	1161.2	1146.5	1220.2	1428.4	2256.2	3910.2	5090.3	4131.0	4010.1	3647.6	3617.9
65°	885.5	882.2	915.3	981.6	1366.5	3487.8	5641.9	5187.8	4998.9	4044.7	3974.6
67.5°	727.6	721.6	754.2	850.7	880.0	2250.1	5654.0	6413.8	6228.3	4539.0	4387.1
70°	598.3	591.5	622.0	746.5	813.2	1141.2	4758.5	7131.8	7121.9	5164.8	4698.6
71°	536.4	531.5	568.0	706.4	799.0	951.1	4108.5	7133.7	7163.5	5376.6	4680.2
72.5°	436.7	438.4	477.1	628.7	788.3	839.8	3019.6	6801.2	6864.1	5578.6	4513.1
75°	290.2	291.6	342.4	483.6	764.4	821.7	1659.6	5707.0	5822.6	5457.7	4118.2
77.5°	194.9	194.4	229.0	331.8	666.0	821.7	973.1	4268.4	4395.3	4342.6	3174.9
80°	134.2	133.2	157.7	229.0	504.2	831.6	752.3	2991.3	3029.8	2345.2	1290.4
82.5°	82.2	82.9	103.0	161.8	343.1	748.4	710.2	1631.1	1589.2	657.8	322.3
85°	47.2	46.9	65.8	109.5	220.3	631.6	692.6	702.0	644.0	198.1	116.6
87.5°	16.9	18.1	35.3	60.7	126.2	439.9	587.6	365.1	329.1	89.5	52.7
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°	1604.5	1604.5	1604.5	1604.5	1604.5	1604.5	1604.5	1604.5	1604.5	1604.5	1604.5
2.5°	1602.5	1604.0	1602.3	1592.6	1584.4	1571.1	1563.6	1553.2	1550.1	1548.6	1552.5
5°	1608.6	1609.1	1594.8	1569.4	1540.9	1507.3	1483.1	1453.3	1439.3	1433.3	1437.1
7.5°	1614.2	1612.0	1580.8	1532.2	1479.5	1420.9	1368.9	1321.3	1293.5	1282.1	1283.1
10°	1614.9	1605.7	1555.6	1480.4	1398.7	1312.8	1233.0	1159.5	1113.1	1082.9	1092.1
12.5°	1607.4	1591.9	1518.6	1413.4	1300.0	1183.0	1075.1	964.9	898.6	867.9	868.9
15°	1601.6	1573.5	1473.2	1334.6	1182.3	1027.3	880.0	750.4	679.8	648.3	633.6
17.5°	1596.7	1553.7	1420.5	1245.9	1043.2	846.6	669.6	554.0	515.3	506.1	502.3
20°	1590.0	1532.7	1361.7	1143.1	884.8	644.5	489.0	431.9	432.1	442.8	444.2
22.5°	1580.5	1508.7	1299.1	1027.7	714.8	469.4	383.3	366.8	383.5	403.8	407.5
25°	1566.5	1480.4	1229.4	900.3	545.1	360.8	327.4	326.7	347.0	368.3	371.4
27.5°	1546.7	1443.4	1152.0	763.4	401.7	306.6	293.3	298.4	313.4	328.9	330.1
30°	1520.1	1400.4	1066.7	619.1	314.9	273.0	271.6	276.2	285.3	296.2	297.2
32.5°	1490.8	1356.6	975.5	479.3	269.6	254.9	256.3	258.5	262.9	267.2	268.2
35°	1464.2	1311.9	882.2	364.2	248.1	243.0	242.1	241.6	242.1	240.6	240.9
37.5°	1447.1	1274.9	785.0	289.9	235.8	232.6	229.7	226.1	222.0	219.6	220.1
40°	1440.8	1247.3	686.5	250.5	225.6	223.4	217.9	210.1	205.3	203.9	203.9
42.5°	1457.7	1233.0	591.5	230.7	217.2	213.5	204.3	195.4	191.8	191.5	191.3
45°	1509.4	1238.8	501.1	219.8	209.4	202.4	190.3	182.8	180.4	180.9	180.6
47.5°	1602.3	1275.4	423.7	212.6	201.7	192.5	178.9	172.9	170.0	170.0	170.2
50°	1760.2	1360.7	362.0	206.5	195.1	183.3	170.7	163.2	159.4	159.1	159.1
52.5°	1990.2	1513.6	323.6	201.4	187.9	175.1	162.5	153.1	148.5	147.5	147.0
55°	2278.4	1732.6	312.9	198.1	178.2	166.1	152.6	143.2	138.1	135.9	135.7
57.5°	2600.8	1999.1	334.0	193.9	168.3	155.5	141.7	132.8	127.4	124.8	124.5
60°	2927.0	2290.0	419.8	188.1	160.1	143.9	130.6	122.4	117.0	114.1	113.7
62.5°	3253.7	2596.7	595.1	187.7	154.3	132.8	119.2	112.2	107.1	104.0	103.3
65°	3622.2	2932.3	794.4	200.5	152.3	122.6	107.6	102.0	97.7	94.8	94.6
67.5°	4045.4	3311.3	775.3	226.8	158.9	113.4	96.7	92.4	89.2	86.8	86.6
70°	4244.0	3252.0	481.9	245.4	168.1	104.5	86.3	83.2	80.8	79.1	78.3
71°	4160.8	3087.8	404.1	243.3	167.1	100.6	82.2	79.8	77.4	75.9	75.2
72.5°	3933.9	2816.0	337.1	226.3	156.2	93.6	76.9	74.5	72.3	70.6	70.1
75°	3530.1	2514.9	269.9	180.9	124.5	79.1	67.5	64.8	63.1	62.1	61.2
77.5°	2595.0	1794.8	208.7	142.9	91.7	64.6	57.6	55.6	53.9	52.5	51.7
80°	994.1	695.2	140.5	106.6	67.2	51.0	46.4	45.5	43.8	42.8	42.8
82.5°	267.7	207.7	75.0	64.6	45.0	37.2	35.5	35.1	33.6	31.7	31.9
85°	108.3	91.7	42.1	35.5	27.6	22.0	23.9	24.2	22.5	20.1	20.3
87.5°	47.6	38.9	23.5	15.7	12.1	8.5	10.9	10.9	9.9	8.2	7.5
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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