

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: P387076

Luminaire Tested: **GWC-SA2D-740-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P387076  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-SA2D-740-U-T4W-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11737 lumens  
Efficiency: N/A  
Efficacy: 91.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

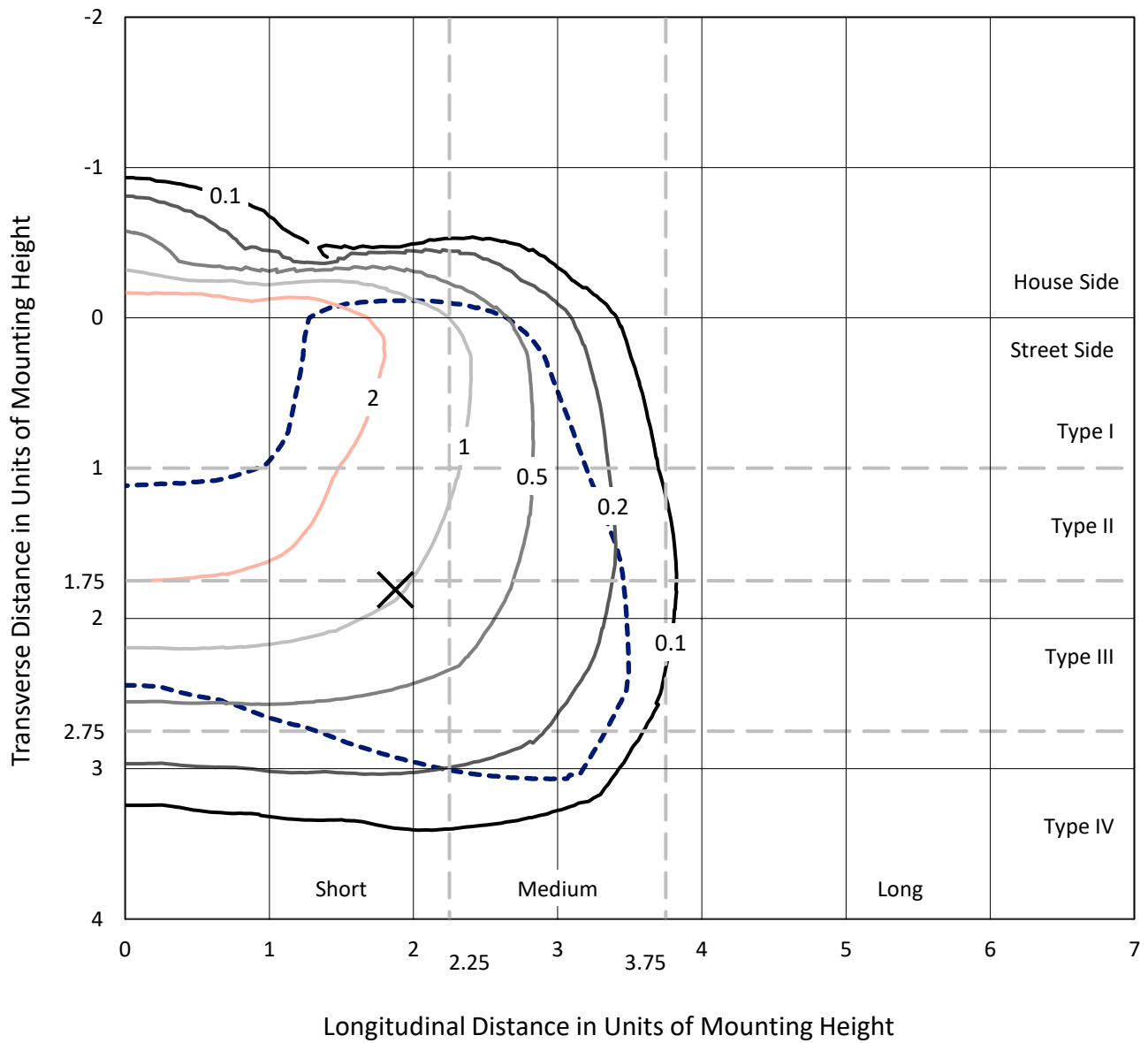
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

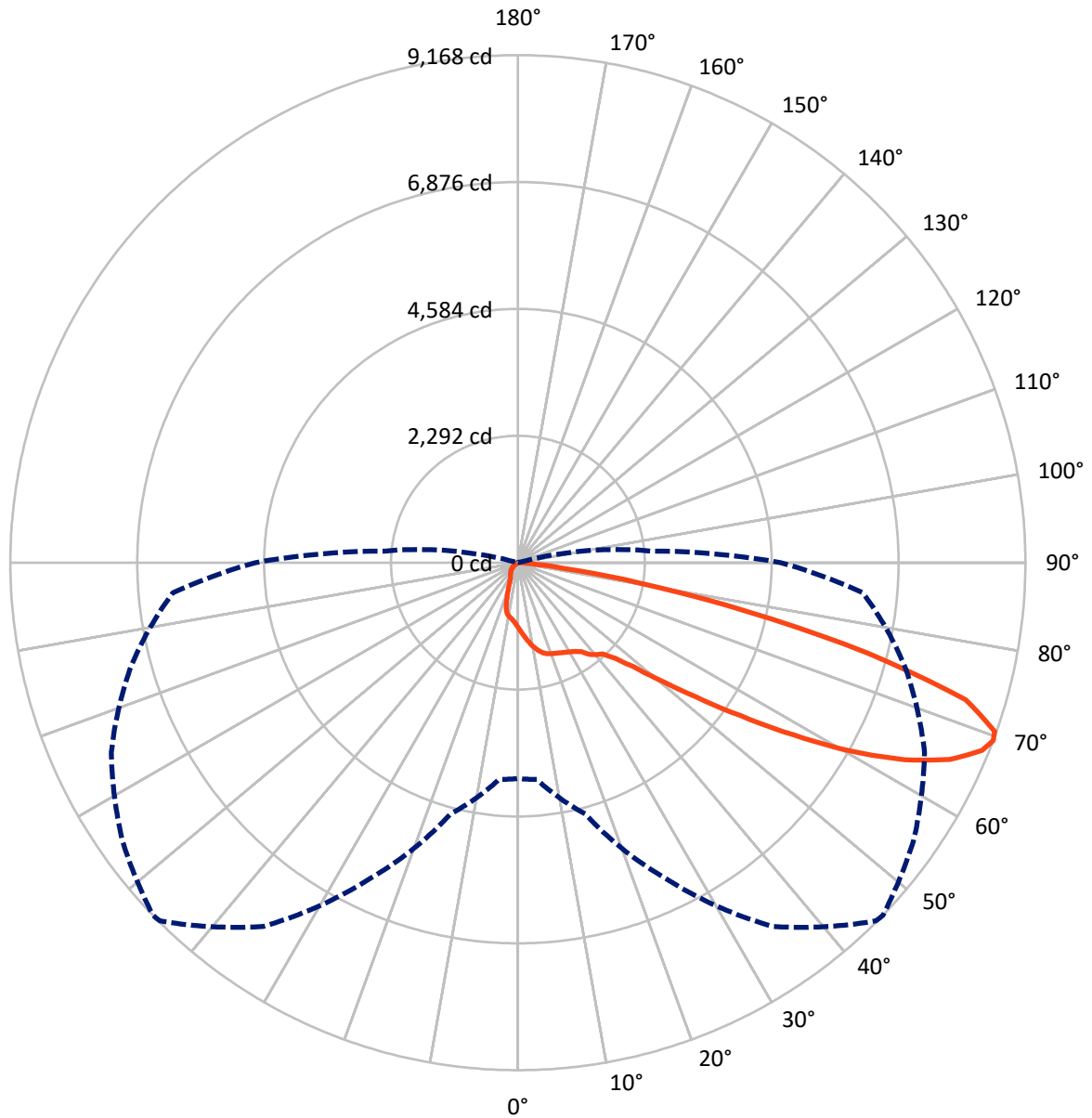
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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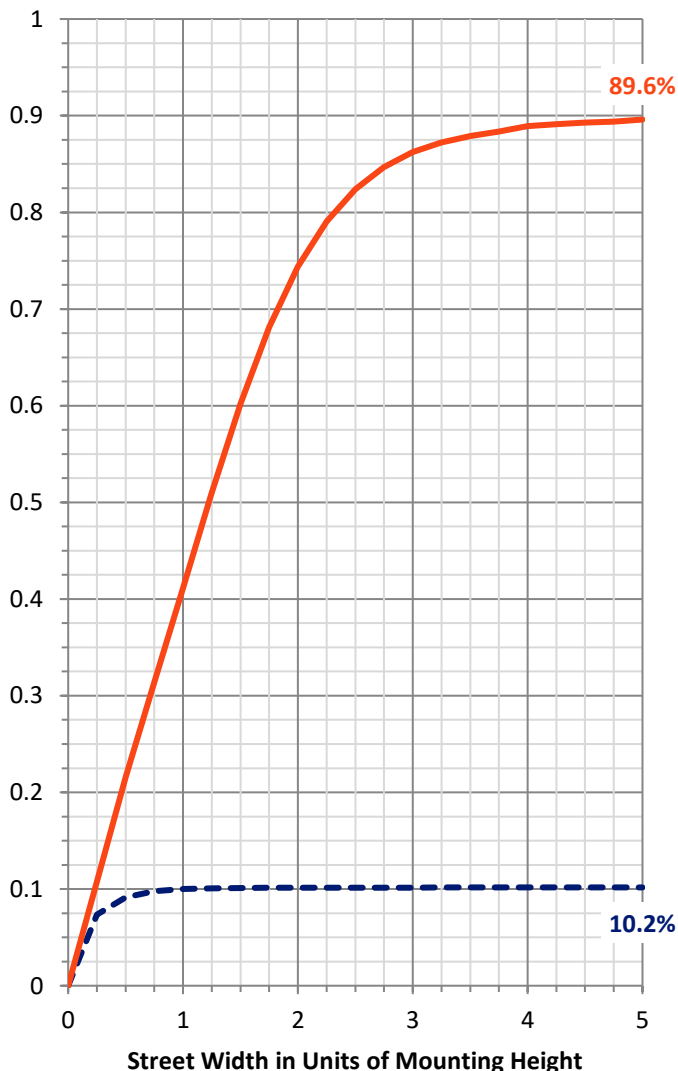
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1204.6	0.0	1204.6
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	10532.5	0.0	10532.5
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	11737.0	0.0	11737.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.1	1.0
10°-20°	355.1	3.0
20°-30°	558.5	4.8
30°-40°	800.9	6.8
40°-50°	1384.2	11.8
50°-60°	2734.6	23.3
60°-70°	3821.8	32.6
70°-80°	1846.3	15.7
80°-90°	118.7	1.0
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°	11737.0	100.0
0°-180°	11737.0	100.0

**Coefficient of Utilization**



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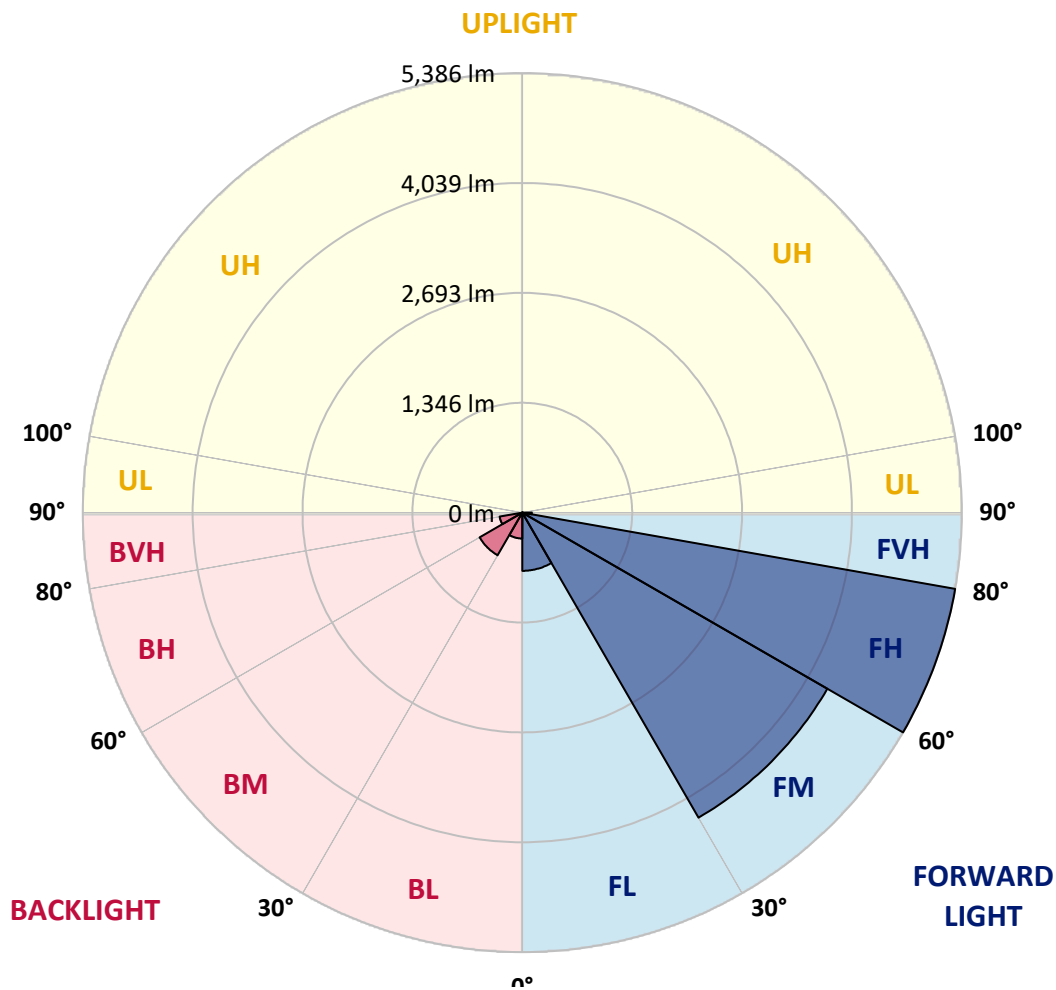
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	713.2	6.1			
FM (30°-60°)	4316.0	36.8			
FH (60°-80°)	5385.7	45.9			G3/7500
FVH (80°-90°)	117.7	1.0			G2/225
BL (0°-30°)	317.5	2.7	B1/500		
BM (30°-60°)	603.6	5.1	B1/1000		
BH (60°-80°)	282.5	2.4	B1/500		G1/500
BVH (80°-90°)	1.0	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1176.0	1176.0	1176.0	1176.0	1176.0	1176.0	1176.0	1176.0	1176.0	1176.0	1176.0
2.5°	1306.4	1304.8	1297.1	1293.8	1275.1	1264.1	1259.7	1245.9	1226.1	1206.3	1184.3
5°	1455.0	1454.5	1440.2	1426.4	1391.2	1358.2	1352.1	1320.2	1275.6	1233.8	1192.0
7.5°	1606.9	1599.7	1585.4	1559.0	1507.8	1455.0	1450.1	1404.9	1341.6	1281.1	1221.1
10°	1735.7	1731.3	1712.6	1672.4	1612.4	1552.4	1546.4	1490.8	1419.2	1344.9	1268.5
12.5°	1835.8	1832.5	1807.8	1757.7	1693.8	1631.7	1623.4	1573.9	1497.4	1414.3	1324.0
15°	1896.9	1895.3	1865.0	1811.6	1748.9	1694.9	1687.8	1644.3	1573.3	1486.4	1384.6
17.5°	1911.2	1911.8	1880.4	1826.5	1774.7	1736.2	1730.7	1697.7	1638.3	1551.9	1445.1
20°	1879.3	1885.9	1857.8	1811.1	1779.1	1758.8	1754.4	1734.6	1684.5	1603.0	1493.5
22.5°	1834.2	1837.5	1818.2	1786.8	1773.6	1777.5	1775.3	1764.3	1721.9	1647.1	1541.4
25°	1806.7	1806.7	1795.1	1768.7	1777.5	1801.2	1801.7	1799.5	1765.9	1701.0	1599.7
27.5°	1805.6	1802.3	1789.0	1769.2	1793.4	1829.8	1832.0	1846.8	1825.9	1766.5	1672.4
30°	1849.6	1845.7	1817.7	1791.8	1822.6	1861.7	1867.2	1899.7	1889.2	1837.5	1753.3
32.5°	1952.5	1938.7	1876.5	1834.2	1857.3	1904.1	1911.2	1962.9	1979.5	1925.0	1831.4
35°	2093.4	2049.9	1960.2	1914.5	1916.7	1965.7	1972.3	2048.2	2097.2	2005.3	1892.0
37.5°	2287.6	2266.2	2120.3	1998.2	2008.1	2082.4	2101.6	2184.2	2170.4	2049.3	1960.7
40°	2713.6	2680.0	2524.8	2232.6	2095.6	2177.0	2183.1	2227.1	2228.2	2148.9	2103.8
42.5°	3293.6	3279.8	3116.4	2658.0	2267.8	2240.3	2251.3	2325.6	2408.7	2359.2	2357.0
45°	3935.8	3928.6	3755.3	3222.6	2616.2	2447.8	2461.5	2561.1	2720.2	2731.2	2801.1
47.5°	4452.5	4449.2	4349.6	3852.7	3149.4	2799.4	2803.8	2909.5	3189.0	3327.1	3438.9
50°	4923.6	4939.5	4860.9	4534.5	3875.8	3350.3	3339.8	3410.2	3859.3	4085.5	4224.1
52.5°	5578.5	5601.0	5380.3	5170.7	4638.0	4033.7	4025.5	4099.2	4664.9	4834.4	4859.2
55°	6156.8	6118.3	5943.9	5883.3	5567.4	4877.9	4875.7	4940.6	5444.2	5516.3	5561.9
57.5°	6412.2	6397.3	6481.5	6620.2	6540.9	5875.6	5870.7	5821.1	6141.4	6149.1	6289.4
60°	6573.4	6591.6	6849.7	7277.2	7474.8	6949.3	6917.3	6615.2	6807.3	6790.2	6940.5
62.5°	6452.3	6488.1	6952.6	7665.2	8173.7	7886.4	7841.3	7342.7	7376.3	7317.4	7457.2
65°	5809.6	5865.2	6626.2	7592.0	8520.4	8618.9	8573.2	7984.9	7828.1	7731.2	7653.7
67.5°	4717.2	4750.2	5544.9	6955.3	8364.1	9055.8	9046.5	8547.9	8169.3	7661.4	7059.3
69°	3898.4	3930.8	4695.8	6285.0	8020.2	9149.4	9167.5	8728.4	8104.4	7236.5	6254.8
70°	3301.8	3336.5	4049.2	5710.5	7621.2	9105.9	9138.4	8711.3	7918.4	6744.5	5548.7
72.5°	1731.8	1761.5	2492.9	3934.1	6213.0	8361.3	8459.9	7975.0	6712.1	4898.3	3280.9
75°	544.3	561.3	973.5	2056.5	4253.9	6501.3	6523.9	6255.9	4766.2	2694.3	1366.4
77.5°	207.5	202.5	324.1	757.8	2150.6	4093.7	4231.9	3909.4	2501.1	952.6	315.3
80°	111.7	112.3	168.4	313.7	920.1	2103.8	2220.5	1894.7	888.7	297.2	72.6
82.5°	48.4	50.6	94.7	166.2	422.6	775.9	834.3	694.5	339.5	199.8	27.0
85°	10.5	11.6	45.7	90.3	172.2	217.9	228.4	225.1	216.3	155.2	10.5
87.5°	0.0	0.0	20.4	32.5	43.5	49.5	43.5	56.7	119.4	104.6	5.5
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°	1176.0	1176.0	1176.0	1176.0	1176.0	1176.0	1176.0	1176.0	1176.0	1176.0	1176.0
2.5°	1177.1	1167.2	1150.1	1131.4	1118.2	1104.5	1093.5	1088.5	1083.0	1079.1	1084.1
5°	1174.9	1155.6	1122.6	1090.7	1067.6	1048.9	1033.5	1027.4	1021.4	1017.0	1016.4
7.5°	1194.2	1167.2	1116.6	1069.8	1034.0	1008.7	987.8	979.0	971.8	968.5	965.8
10°	1231.0	1196.4	1128.7	1067.6	1021.4	978.4	933.3	898.6	876.1	865.6	861.8
12.5°	1278.9	1235.4	1151.8	1079.1	1012.0	929.5	833.7	751.2	697.8	680.2	669.7
15°	1335.0	1281.1	1182.1	1094.0	977.9	827.1	664.8	556.9	507.4	497.5	486.5
17.5°	1389.0	1329.5	1218.4	1096.8	903.1	660.9	487.0	413.8	394.6	401.2	402.8
20°	1436.3	1377.4	1254.1	1072.5	767.1	495.8	377.0	358.8	366.0	378.6	380.8
22.5°	1484.2	1423.6	1287.2	1008.7	593.2	376.4	339.5	343.9	351.1	363.8	366.0
25°	1542.5	1479.8	1318.0	891.5	445.2	320.3	322.5	329.1	336.2	347.8	348.9
27.5°	1609.6	1550.8	1338.3	739.1	330.2	294.4	301.6	311.5	318.6	329.6	331.8
30°	1698.8	1644.3	1344.9	581.1	276.8	271.3	274.6	286.7	297.2	307.1	308.7
32.5°	1782.4	1736.8	1322.9	438.6	256.4	249.8	249.8	257.0	269.1	278.5	280.7
35°	1859.5	1829.8	1252.5	320.8	241.0	230.0	224.5	224.5	232.2	239.9	242.1
37.5°	1961.3	1960.2	1138.6	255.9	226.2	213.5	202.0	193.2	190.4	192.1	193.2
40°	2135.7	2137.4	990.0	229.5	213.5	196.5	178.8	162.9	148.0	143.1	142.5
42.5°	2408.1	2383.4	834.3	216.8	202.5	178.8	152.4	131.0	107.9	100.7	100.2
45°	2840.7	2693.7	669.2	205.3	191.0	159.0	126.0	96.9	78.1	72.6	72.6
47.5°	3470.8	3101.5	518.4	192.6	175.5	136.5	95.2	69.9	57.2	54.5	55.0
50°	4122.3	3501.0	397.3	176.6	156.8	112.8	70.4	50.6	43.5	43.5	44.0
52.5°	4700.2	3793.8	309.8	159.6	133.7	88.6	53.4	39.6	36.3	35.8	36.3
55°	5241.1	3982.6	237.2	139.8	106.2	66.0	40.7	32.5	30.3	29.2	28.6
57.5°	5762.8	4076.1	177.7	112.8	77.0	47.9	32.5	27.5	25.3	23.7	23.1
60°	6110.0	4000.2	122.2	83.1	53.4	34.7	27.0	23.7	20.9	19.3	18.7
62.5°	6306.0	3792.7	78.7	60.0	38.0	25.9	21.5	19.8	16.0	14.3	14.3
65°	6226.7	3450.4	55.0	42.9	27.5	19.3	16.0	16.0	11.6	9.4	8.8
67.5°	5517.9	2915.0	41.8	31.9	19.8	14.3	12.1	13.8	7.2	4.4	4.4
69°	4747.5	2415.8	35.8	26.4	16.5	11.6	10.5	12.7	5.0	3.3	2.8
70°	4126.2	2084.0	32.5	23.1	13.8	9.9	9.4	12.1	5.0	2.8	2.2
72.5°	2468.7	1162.2	24.8	16.5	8.8	7.7	7.7	13.8	5.0	2.8	2.2
75°	997.7	409.4	18.2	11.6	6.6	6.6	9.4	17.6	4.4	2.2	1.7
77.5°	226.2	89.7	10.5	7.2	4.4	6.6	11.0	13.8	2.8	1.1	0.0
80°	55.0	22.0	6.6	4.4	2.8	5.0	8.3	7.7	0.6	0.0	0.0
82.5°	18.2	7.7	2.8	2.2	0.6	1.7	3.9	2.2	0.0	0.0	0.0
85°	7.7	4.4	1.1	0.6	0.0	0.0	0.6	0.0	0.0	0.0	0.0
87.5°	5.0	1.7	0.0	0.0	0.0	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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