

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: P386164

Luminaire Tested: **GWC-SA1D-735-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P386164
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-SA1D-735-U-SL4-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6318.4 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

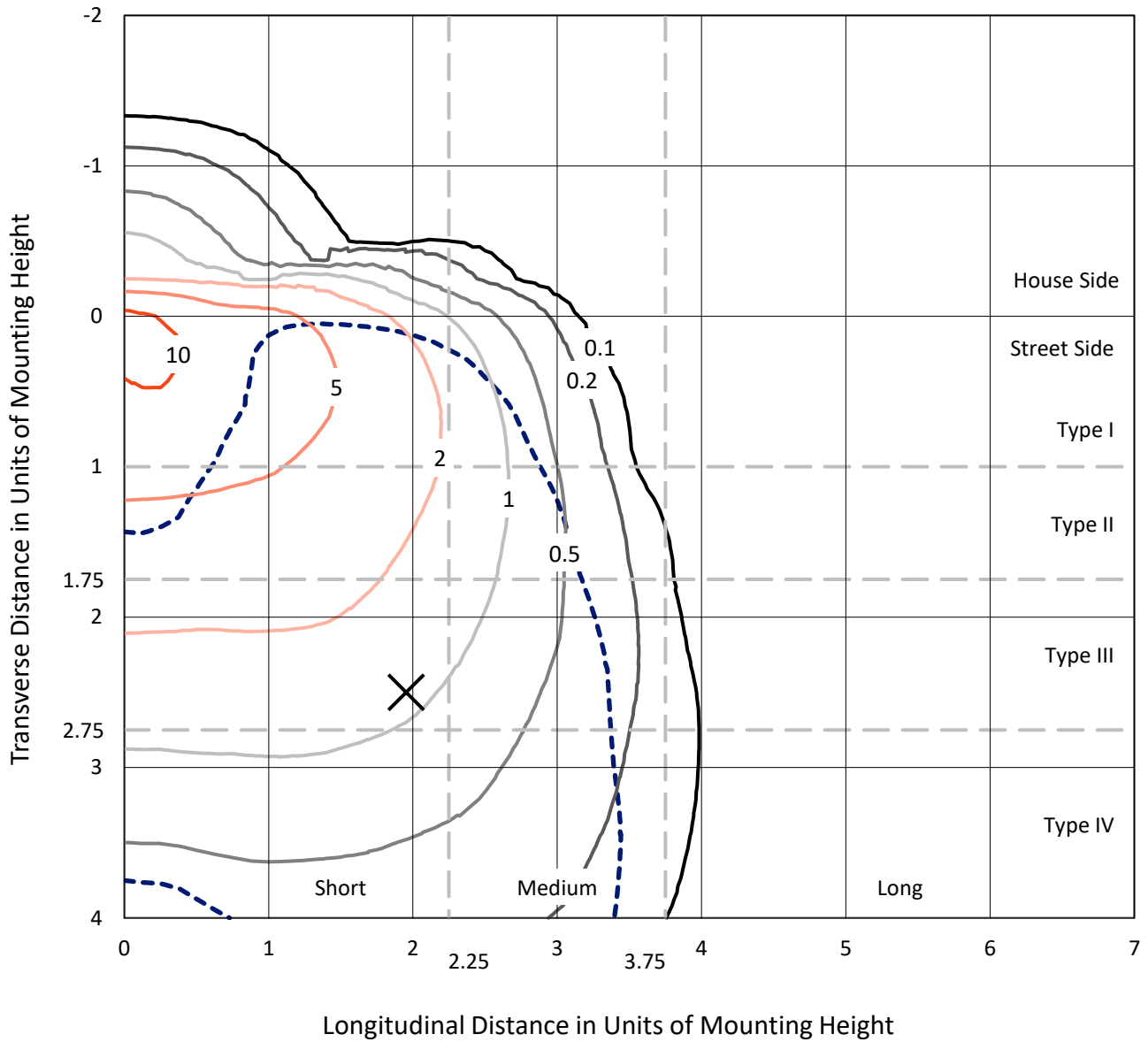
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

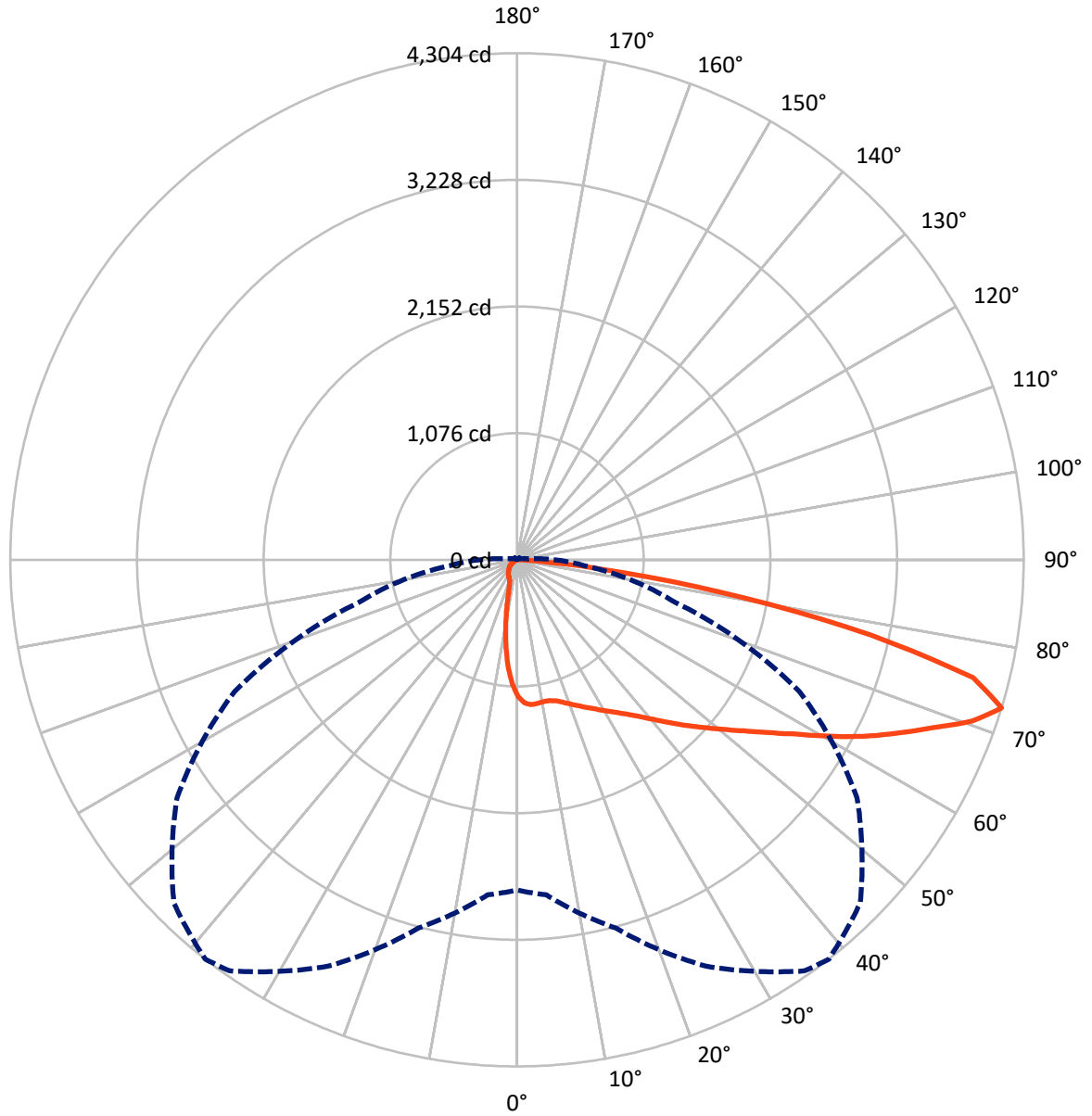
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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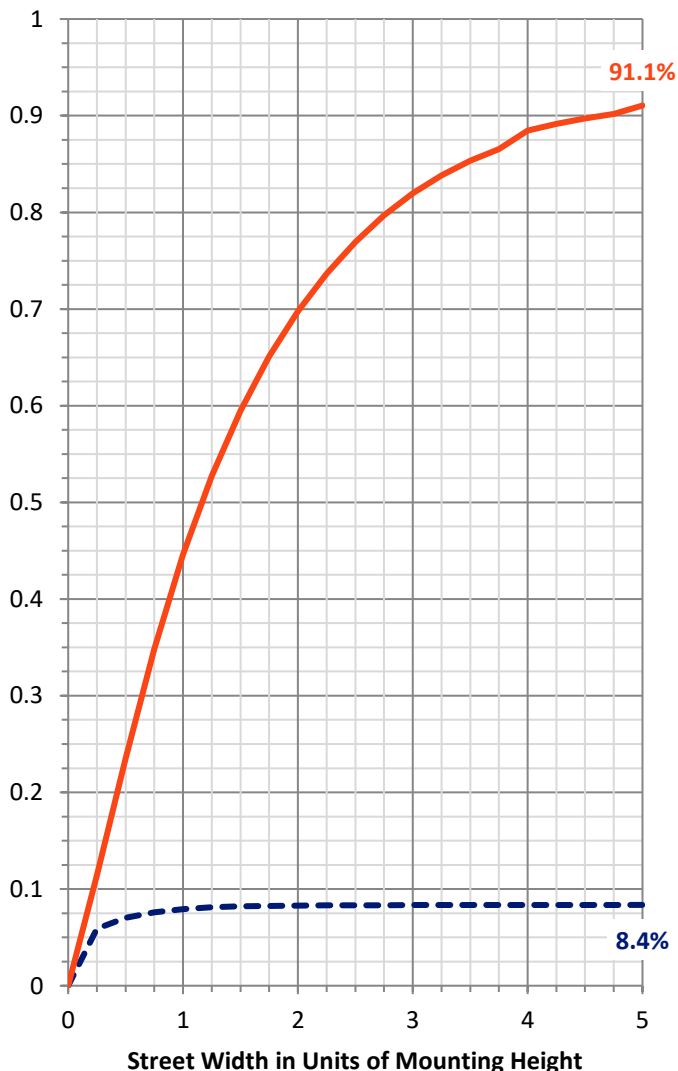
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	531.7	0.0	531.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	5786.7	0.0	5786.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	6318.4	0.0	6318.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.0	1.6
10°-20°	242.1	3.8
20°-30°	385.1	6.1
30°-40°	578.9	9.2
40°-50°	883.2	14.0
50°-60°	1248.3	19.8
60°-70°	1565.8	24.8
70°-80°	1170.8	18.5
80°-90°	145.2	2.3
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°	6318.4	100.0
0°-180°	6318.4	100.0

Coefficient of Utilization



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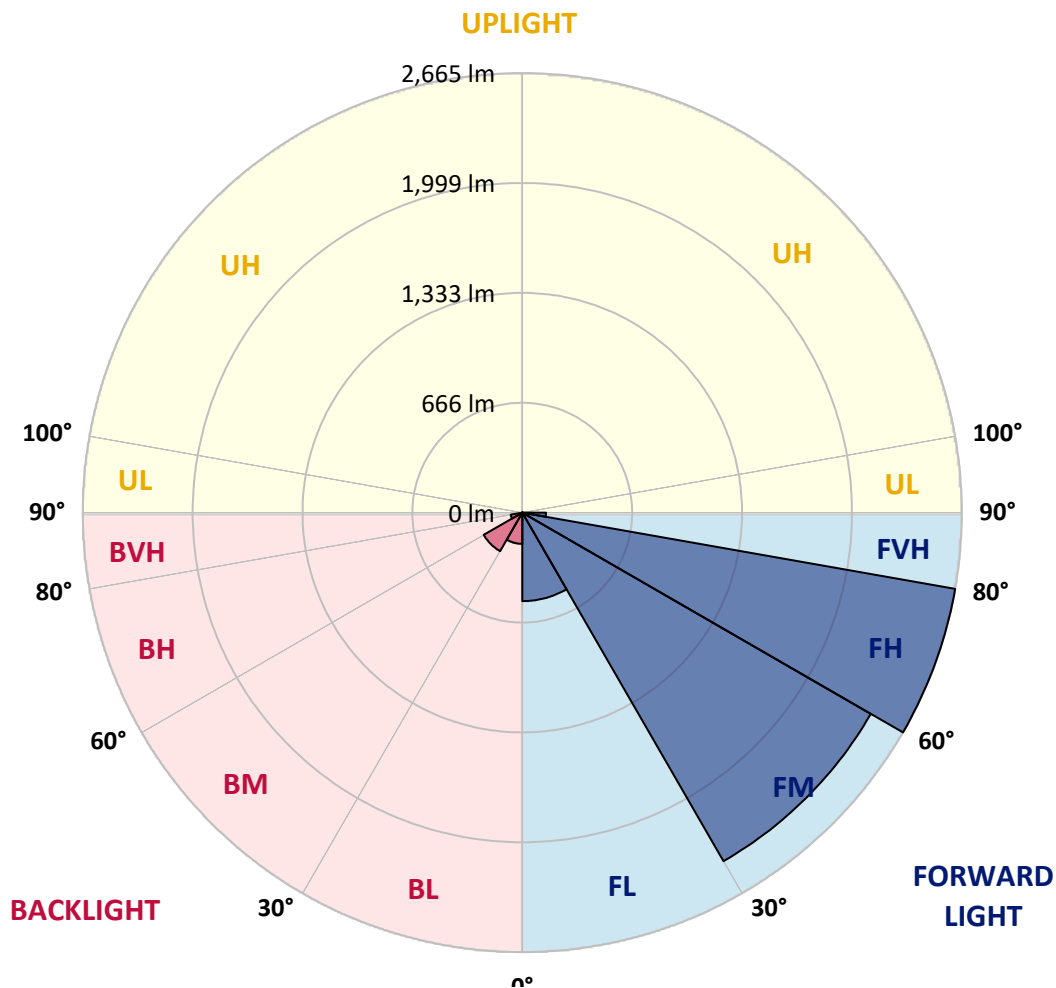
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	536.9	8.5			
FM (30°-60°)	2440.4	38.6			
FH (60°-80°)	2665.5	42.2			G2/5000
FVH (80°-90°)	143.8	2.3			G2/225
BL (0°-30°)	189.3	3.0	B1/500		
BM (30°-60°)	270.0	4.3	B1/1000		
BH (60°-80°)	71.0	1.1	B0/110		G0/110
BVH (80°-90°)	1.4	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1161.9	1161.9	1161.9	1161.9	1161.9	1161.9	1161.9	1161.9	1161.9	1161.9	1161.9
2.5°	1233.3	1233.5	1230.7	1225.9	1219.9	1216.8	1211.5	1203.1	1194.2	1178.2	1160.9
5°	1258.5	1258.5	1254.8	1248.5	1238.8	1236.0	1225.9	1212.6	1194.2	1168.2	1139.1
7.5°	1255.9	1256.3	1251.4	1244.9	1235.1	1232.5	1220.5	1205.5	1182.7	1151.1	1113.9
10°	1242.3	1243.6	1239.6	1236.4	1227.5	1224.6	1213.3	1198.4	1175.6	1142.0	1099.2
12.5°	1228.4	1229.7	1231.0	1233.8	1228.4	1227.2	1218.3	1205.7	1184.0	1149.1	1100.8
15°	1219.4	1222.1	1231.5	1242.7	1244.0	1243.0	1237.3	1225.4	1203.4	1167.2	1112.1
17.5°	1219.4	1223.6	1243.3	1264.8	1272.4	1273.2	1268.2	1251.6	1225.4	1186.5	1122.6
20°	1229.7	1235.4	1266.1	1296.6	1309.1	1309.1	1299.5	1276.4	1245.6	1204.2	1129.6
22.5°	1255.9	1263.5	1302.1	1337.2	1350.6	1347.7	1334.6	1301.0	1266.6	1224.1	1138.5
25°	1307.5	1313.4	1353.5	1388.9	1397.1	1390.5	1374.0	1330.9	1293.4	1251.2	1154.8
27.5°	1374.2	1375.0	1416.4	1446.4	1441.4	1436.9	1416.2	1368.4	1332.0	1289.7	1182.9
30°	1447.4	1447.4	1483.9	1506.7	1491.5	1487.8	1467.1	1413.8	1381.3	1342.2	1222.8
32.5°	1518.2	1521.4	1551.0	1565.5	1548.4	1544.7	1524.5	1471.3	1446.9	1422.2	1285.0
35°	1586.7	1589.1	1617.2	1625.1	1608.8	1609.8	1595.4	1550.3	1541.1	1538.0	1378.7
37.5°	1653.1	1653.7	1682.3	1687.2	1679.2	1688.1	1689.3	1649.5	1666.5	1691.9	1510.6
40°	1713.7	1714.3	1742.7	1755.4	1769.3	1780.9	1791.1	1769.9	1826.4	1885.4	1667.8
42.5°	1762.3	1767.8	1803.7	1828.2	1864.9	1887.0	1914.8	1913.7	2016.6	2105.3	1857.8
45°	1805.0	1814.5	1864.6	1907.4	1970.4	2005.5	2049.1	2083.2	2230.7	2350.1	2050.1
47.5°	1861.5	1870.4	1927.6	1997.7	2081.7	2127.8	2200.0	2273.7	2466.1	2590.5	2238.0
50°	1941.0	1937.0	1993.5	2094.0	2201.8	2262.4	2365.3	2475.8	2699.6	2799.9	2348.5
52.5°	2025.8	2024.2	2065.9	2198.7	2343.5	2414.3	2550.3	2684.7	2922.9	2944.2	2399.1
55°	2130.7	2119.5	2154.6	2318.0	2511.8	2587.8	2747.9	2891.5	3100.8	3025.5	2424.6
57.5°	2240.6	2222.0	2255.7	2451.2	2701.4	2791.5	2966.7	3093.0	3219.2	3081.1	2424.4
60°	2354.3	2332.2	2372.2	2617.5	2937.1	3041.3	3204.0	3229.2	3329.7	3109.2	2406.5
62.5°	2449.3	2436.1	2495.5	2795.4	3200.3	3302.6	3383.1	3353.0	3422.8	3131.0	2364.8
65°	2549.8	2550.5	2646.4	3003.0	3480.0	3549.0	3555.8	3513.6	3500.7	3126.6	2223.6
67.5°	2685.7	2698.3	2858.1	3284.8	3752.1	3805.4	3804.8	3687.6	3557.7	2949.1	1910.5
70°	2829.5	2859.1	3102.2	3607.3	4049.2	4103.2	4075.4	3798.3	3349.9	2384.7	1352.2
72.5°	2805.4	2856.8	3237.8	3810.7	4262.5	4303.7	4122.9	3526.2	2647.7	1386.0	575.8
75°	2164.3	2223.9	2968.9	3609.2	4038.6	4001.6	3542.5	2744.0	1446.9	386.7	129.6
77.5°	1143.3	1175.1	1961.2	2749.5	3149.1	3071.7	2495.5	1522.2	441.1	95.8	58.2
80°	598.8	606.2	854.7	1560.0	1943.6	1944.2	1478.9	668.6	181.9	49.0	39.1
82.5°	320.6	326.9	451.6	720.8	1018.4	923.1	566.3	367.9	105.8	27.8	37.5
85°	77.1	78.4	256.1	329.4	400.5	286.0	168.2	308.9	28.6	16.3	30.4
87.5°	29.7	30.2	95.0	142.5	102.1	66.1	78.7	115.2	3.7	6.3	4.7
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°	1161.9	1161.9	1161.9	1161.9	1161.9	1161.9	1161.9	1161.9	1161.9	1161.9	1161.9
2.5°	1150.4	1143.5	1126.8	1105.5	1086.6	1073.0	1052.5	1039.2	1030.2	1030.0	1026.6
5°	1121.3	1107.4	1071.1	1028.1	989.0	953.9	912.3	879.6	855.1	851.3	842.8
7.5°	1090.1	1067.2	1011.5	944.4	878.8	812.1	734.7	686.7	645.6	625.8	623.8
10°	1070.9	1038.9	959.9	862.7	760.0	651.6	550.3	480.2	429.6	415.1	404.4
12.5°	1067.0	1024.7	919.9	786.2	639.3	495.9	383.9	309.3	268.9	256.1	252.7
15°	1070.9	1018.1	886.4	710.4	516.9	351.9	257.7	214.4	199.2	195.5	195.2
17.5°	1073.3	1010.2	848.4	626.1	398.3	251.4	197.4	184.8	182.3	182.1	182.6
20°	1073.0	998.2	803.0	532.2	296.3	197.6	178.4	175.9	175.3	175.6	175.3
22.5°	1071.1	984.0	753.1	435.3	223.9	176.6	170.3	168.7	168.4	168.4	168.4
25°	1074.6	972.7	698.3	342.7	184.5	166.9	163.0	161.7	161.4	161.4	160.8
27.5°	1086.9	966.4	638.1	263.7	166.6	158.2	155.1	154.8	154.1	153.8	154.2
30°	1106.8	966.4	572.3	205.2	155.8	149.3	146.9	146.5	146.2	145.9	146.2
32.5°	1142.0	973.8	500.4	170.6	145.6	139.3	137.8	138.6	137.8	137.8	137.8
35°	1205.5	995.9	425.1	148.8	134.9	129.6	128.0	129.1	128.6	128.6	128.3
37.5°	1298.1	1036.7	349.3	135.6	125.4	120.0	117.8	119.4	118.8	118.8	118.6
40°	1411.0	1096.4	277.1	125.7	116.2	110.5	108.6	109.4	108.1	108.1	108.6
42.5°	1550.3	1171.9	214.1	116.0	107.1	101.5	100.5	99.7	97.3	96.0	96.3
45°	1705.1	1250.6	166.9	106.5	98.4	93.9	92.3	90.3	86.3	83.7	84.0
47.5°	1843.4	1311.2	135.6	97.3	90.6	87.1	84.7	80.8	75.1	71.9	72.1
50°	1916.1	1320.4	115.5	88.2	83.1	79.8	76.4	70.4	63.5	60.1	59.8
52.5°	1934.7	1277.4	100.5	79.8	75.8	71.9	67.4	59.3	51.7	48.0	47.5
55°	1941.5	1211.8	87.1	71.9	67.9	63.5	57.8	48.6	41.4	37.8	37.5
57.5°	1919.0	1113.9	76.7	64.8	60.1	54.6	47.5	38.8	32.0	29.1	29.1
60°	1868.8	981.4	68.5	57.2	51.9	45.7	38.3	30.2	23.9	21.5	21.5
62.5°	1768.9	809.8	60.9	49.3	44.3	37.8	31.0	22.8	16.8	15.5	15.8
65°	1580.2	614.3	53.3	42.3	37.8	31.2	24.1	16.3	11.3	11.3	11.8
67.5°	1288.7	426.7	45.4	36.0	32.5	25.5	18.4	11.3	7.9	8.9	10.0
70°	853.1	239.4	38.8	29.7	27.8	20.2	13.6	7.6	6.3	8.4	10.2
72.5°	321.9	93.2	32.5	23.9	24.1	15.5	9.7	5.7	5.7	9.2	12.0
75°	89.7	45.7	23.4	17.6	18.9	11.3	7.0	5.0	5.5	10.5	14.2
77.5°	52.7	33.6	15.2	10.2	12.9	7.9	4.7	3.9	4.7	8.9	13.6
80°	42.6	17.8	8.9	5.3	7.0	4.4	3.2	2.3	1.3	3.4	7.0
82.5°	42.6	10.8	4.2	3.7	3.7	2.3	1.6	1.0	0.3	0.0	1.9
85°	28.6	4.4	2.6	2.3	1.9	0.8	0.6	0.3	0.0	0.0	0.0
87.5°	4.7	1.9	1.0	0.6	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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