

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: P386850

Luminaire Tested: **GWC-SA2C-735-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P386850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-SA2C-735-U-T4FT-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9846.7 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

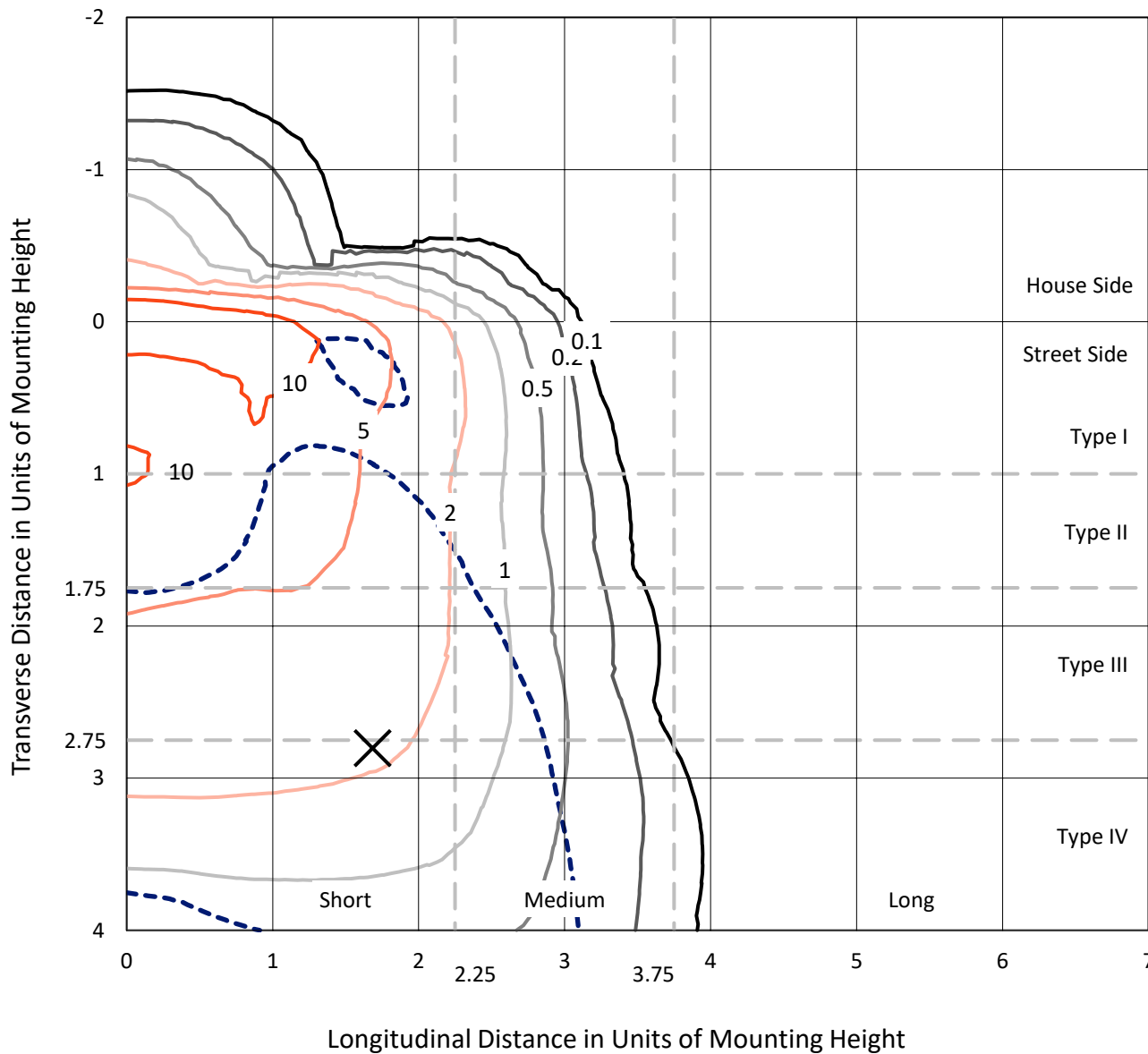
Input Watts (W): 113
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

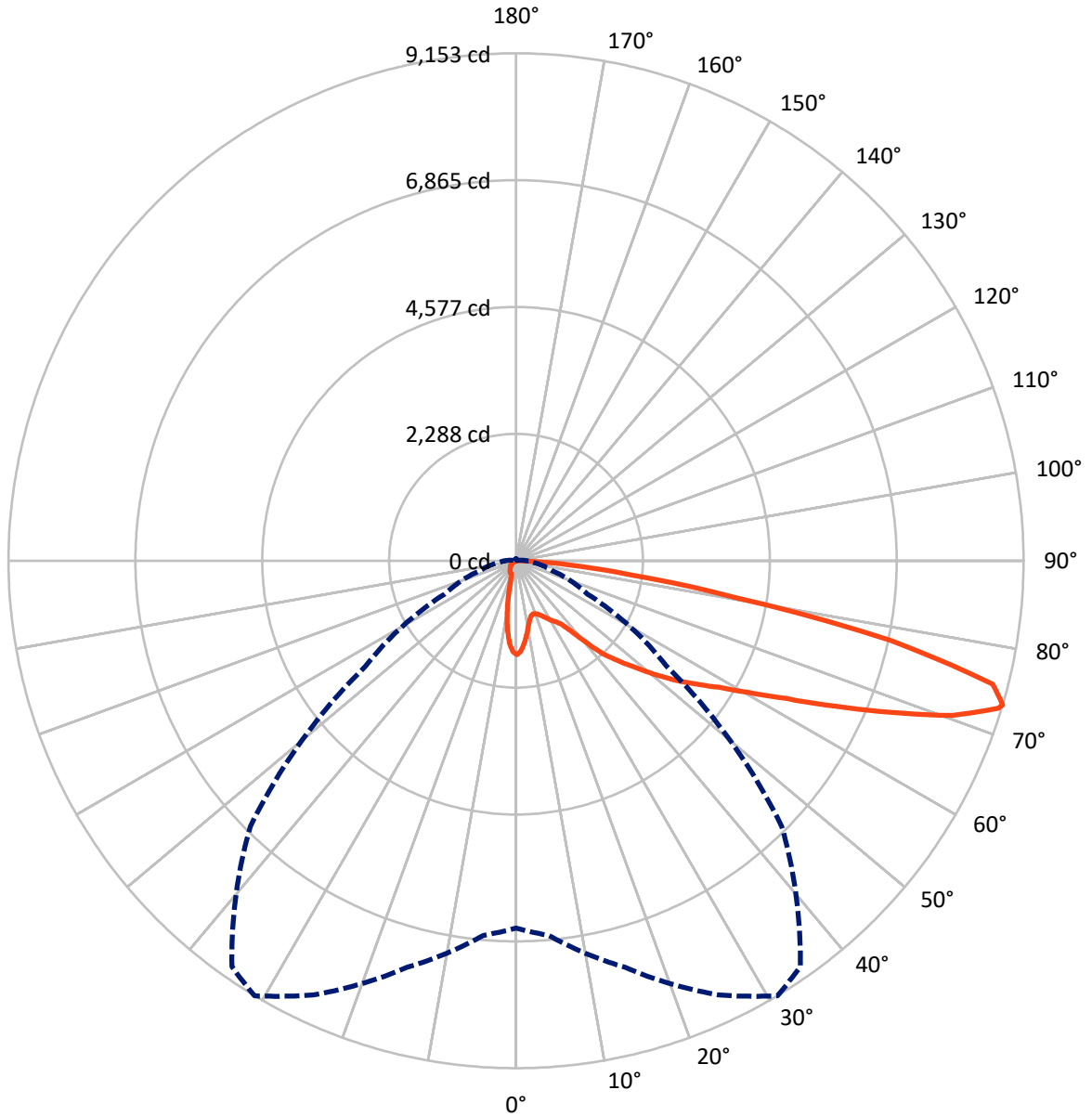
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical



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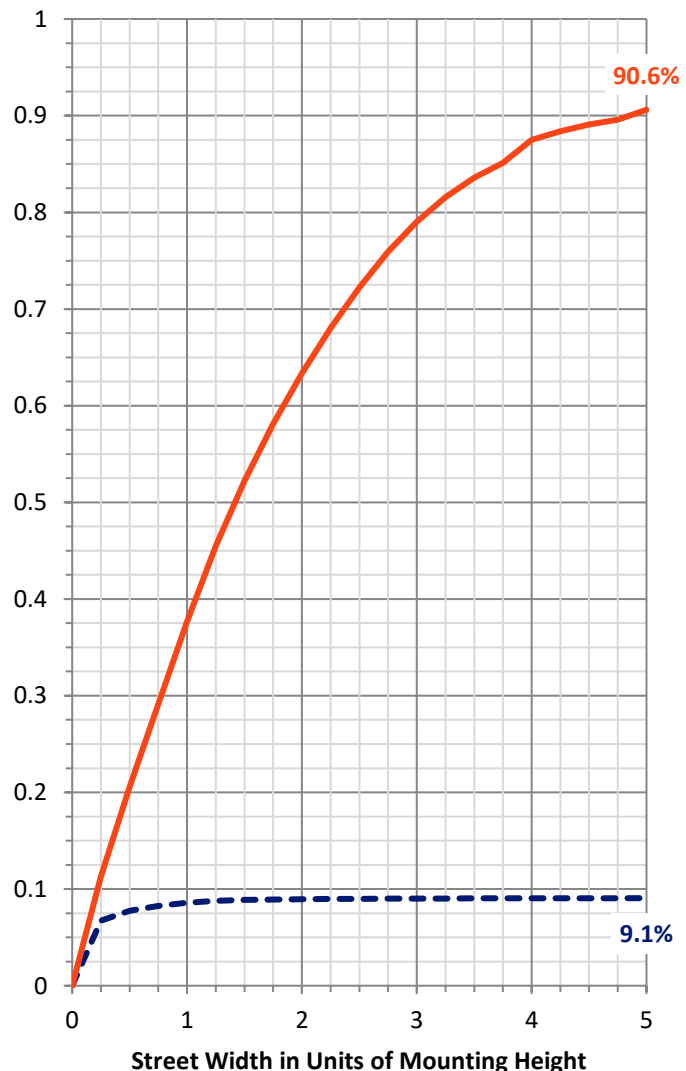
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	897.6	0.0	897.6
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	8949.2	0.0	8949.2
	% Fixture	90.9	0.0	90.9
Total	Lumens	9846.7	0.0	9846.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.5	1.4
10°-20°	305.0	3.1
20°-30°	457.0	4.6
30°-40°	727.1	7.4
40°-50°	1298.3	13.2
50°-60°	2014.6	20.5
60°-70°	2678.1	27.2
70°-80°	2014.5	20.5
80°-90°	211.7	2.1
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°	9846.7	100.0
0°-180°	9846.7	100.0



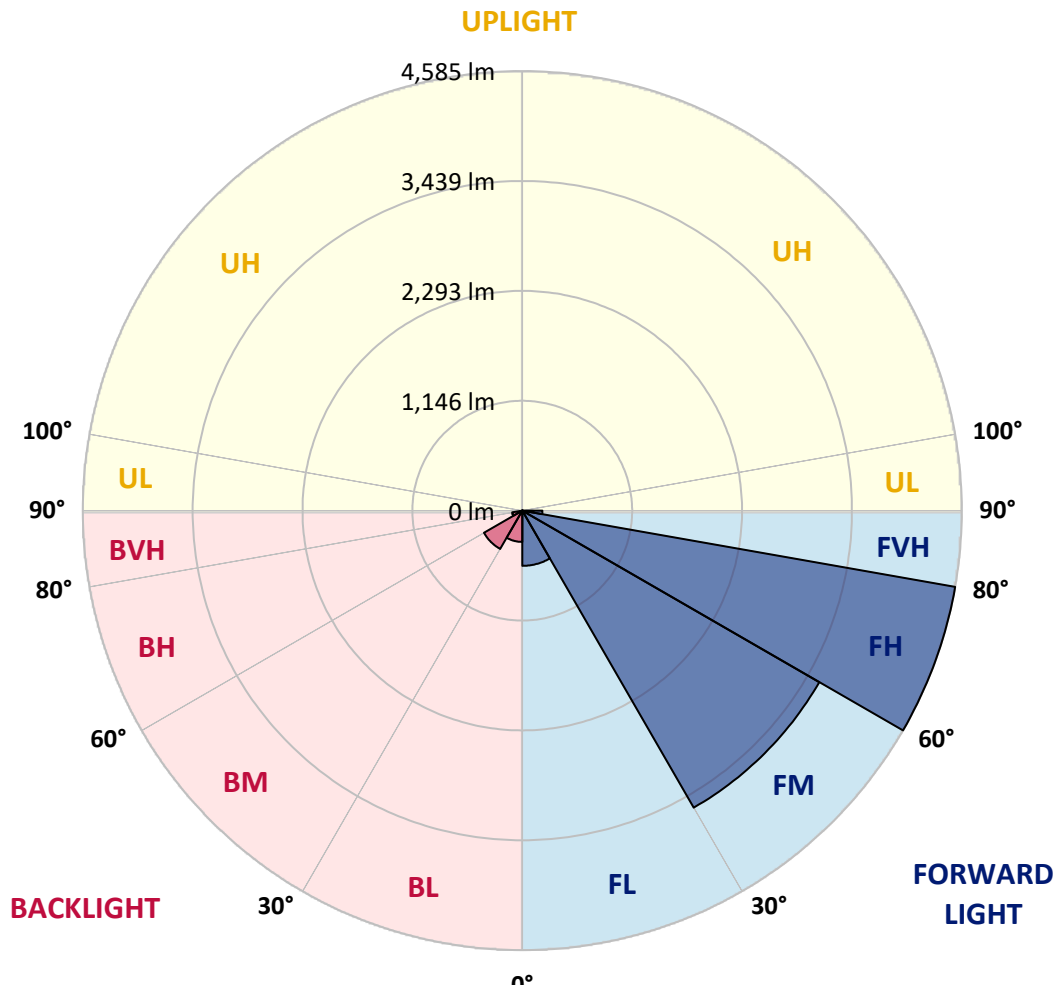
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	576.0	5.9			
FM (30°-60°)	3578.0	36.3			
FH (60°-80°)	4585.3	46.6			G2/5000
FVH (80°-90°)	209.9	2.1			G2/225
BL (0°-30°)	326.4	3.3	B1/500		
BM (30°-60°)	462.0	4.7	B1/1000		
BH (60°-80°)	107.4	1.1	B0/110		G0/110
BVH (80°-90°)	1.8	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°	31°	35°	45°	55°	65°	75°	85°
0°	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1
2.5°	1605.5	1612.3	1619.4	1620.9	1632.9	1633.4	1650.8	1663.8	1676.8	1689.3	1693.6
5°	1440.7	1451.7	1464.8	1477.8	1503.3	1513.5	1555.8	1599.2	1640.7	1680.2	1699.5
7.5°	1264.8	1277.4	1295.7	1327.9	1356.4	1376.1	1443.1	1520.2	1597.3	1670.1	1712.0
10°	1104.4	1115.9	1135.3	1169.5	1213.2	1240.3	1330.4	1437.4	1550.6	1660.9	1730.7
12.5°	1002.2	1008.5	1019.1	1055.7	1095.2	1125.6	1231.5	1364.1	1512.0	1660.4	1761.1
15°	983.5	985.3	976.7	993.0	1023.9	1053.3	1160.7	1304.8	1482.6	1668.2	1800.6
17.5°	1013.3	1012.4	983.5	981.5	1006.1	1030.1	1126.1	1263.9	1461.9	1685.9	1851.7
20°	1058.6	1055.2	1005.2	995.9	1022.0	1044.6	1123.6	1248.5	1454.2	1715.8	1913.8
22.5°	1118.8	1113.1	1034.6	1024.9	1052.8	1076.5	1153.5	1263.4	1460.9	1755.8	1986.2
25°	1193.5	1184.9	1085.1	1074.5	1102.9	1126.5	1207.0	1306.2	1481.1	1804.5	2077.7
27.5°	1277.9	1265.3	1166.1	1138.5	1170.9	1195.5	1278.3	1371.8	1513.0	1856.1	2190.0
30°	1357.3	1341.0	1251.4	1206.1	1245.5	1273.1	1355.5	1449.9	1564.1	1935.5	2343.7
32.5°	1437.4	1419.0	1327.5	1273.5	1309.1	1339.0	1434.9	1557.3	1659.9	2057.0	2548.0
35°	1621.4	1602.1	1489.9	1400.7	1400.3	1417.1	1546.2	1704.2	1786.6	2226.1	2791.8
37.5°	1931.2	1920.1	1813.1	1644.0	1598.8	1580.0	1698.0	1879.6	1968.8	2458.9	3066.9
40°	2270.4	2260.8	2140.8	1987.6	1918.7	1872.4	1915.8	2124.0	2226.1	2743.1	3347.8
42.5°	2653.5	2607.8	2393.8	2348.0	2286.3	2251.2	2212.1	2425.1	2542.2	3052.5	3626.3
45°	3001.4	2924.3	2646.7	2577.3	2563.4	2572.1	2593.8	2829.8	2897.7	3420.1	3903.8
47.5°	3208.6	3147.8	2934.9	2868.4	2864.5	2921.9	3085.7	3287.1	3251.9	3740.5	4148.2
50°	3405.7	3350.7	3173.8	3190.3	3208.1	3286.2	3644.2	3757.4	3575.2	4031.0	4372.2
52.5°	3565.1	3481.3	3388.8	3480.8	3568.5	3694.3	4220.4	4179.5	3804.6	4262.3	4564.0
55°	3657.2	3619.1	3663.9	3756.4	3921.2	4125.5	4764.4	4530.7	3972.3	4473.4	4691.7
57.5°	3994.5	3919.8	4008.9	4088.9	4303.8	4589.5	5230.4	4792.4	4093.2	4604.0	4721.1
60°	4402.6	4342.3	4394.9	4527.9	4818.0	5153.8	5666.0	5005.8	4156.3	4687.9	4644.9
62.5°	5052.1	4972.6	4939.8	5088.7	5473.2	5839.9	5996.5	5153.8	4142.4	4650.8	4383.8
65°	5922.3	5839.9	5693.4	5828.4	6317.4	6576.1	6366.1	5185.1	4046.0	4350.5	3723.7
67.5°	6813.7	6754.0	6628.6	6856.1	7297.5	7380.8	6756.9	5109.0	3735.7	3527.5	2630.9
70°	7402.5	7377.0	7458.4	7961.5	8355.1	8331.0	7115.3	4699.9	2911.7	2169.2	1301.4
72.5°	6978.0	7100.4	7701.7	8613.9	9094.7	8898.1	6931.2	3609.0	1664.2	834.6	376.3
73°	6626.3	6782.9	7592.4	8638.4	9153.1	8937.7	6776.6	3312.7	1418.6	658.7	285.3
75°	4609.8	4802.0	6285.6	8045.3	8880.3	8515.6	5648.6	2027.6	657.2	292.0	115.2
77.5°	2238.1	2380.3	3461.1	5812.9	6906.2	6653.3	3516.4	755.6	296.8	182.6	53.0
80°	835.5	929.0	1502.4	2958.5	3991.1	4095.7	1546.7	285.8	197.6	146.9	27.0
82.5°	218.8	243.8	554.1	1319.3	2045.4	2140.8	487.6	144.1	144.6	120.9	16.3
85°	69.9	79.9	172.9	592.2	963.7	846.1	127.2	69.9	105.0	90.1	9.1
87.5°	8.6	11.1	55.0	139.2	212.5	118.1	19.7	20.8	44.8	50.1	5.3
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°	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1
2.5°	1698.0	1695.6	1696.1	1683.6	1675.3	1659.0	1642.2	1634.4	1626.2	1622.8	1626.2
5°	1706.7	1702.4	1689.8	1651.3	1610.3	1557.3	1507.6	1470.1	1422.9	1409.8	1423.4
7.5°	1720.1	1711.5	1674.8	1596.3	1505.3	1404.1	1290.4	1207.5	1139.6	1095.7	1111.6
10°	1739.9	1723.5	1649.9	1516.4	1353.5	1174.2	1012.9	887.1	797.9	761.3	759.9
12.5°	1773.2	1742.3	1619.0	1412.3	1167.9	929.0	717.4	581.1	508.9	462.1	461.1
15°	1809.8	1764.5	1580.0	1287.4	952.1	665.5	462.1	358.5	311.8	296.8	294.9
17.5°	1854.6	1790.0	1529.3	1133.8	726.2	440.9	301.6	271.8	269.8	268.4	268.4
20°	1911.0	1820.4	1464.3	957.9	515.1	294.4	256.4	258.2	259.3	257.3	257.8
22.5°	1976.5	1851.3	1386.7	769.0	348.3	246.2	245.3	247.6	248.7	247.6	248.2
25°	2052.7	1886.9	1292.3	571.0	251.5	233.7	236.1	239.5	241.9	241.9	241.9
27.5°	2147.1	1930.3	1178.6	398.5	217.3	220.7	227.4	233.7	237.1	238.0	238.0
30°	2270.0	1984.2	1042.3	273.2	197.6	203.4	215.9	227.9	234.2	235.1	235.6
32.5°	2425.1	2045.0	884.2	201.9	180.6	185.1	198.5	218.8	230.8	232.7	232.7
35°	2602.9	2115.2	714.1	175.9	168.6	170.1	180.6	203.8	225.0	230.3	230.8
37.5°	2797.6	2184.7	543.1	164.3	158.6	158.6	166.3	186.0	211.1	227.4	229.4
40°	2979.2	2226.6	380.6	155.2	149.4	149.4	156.1	170.6	194.2	218.8	224.0
42.5°	3146.9	2241.0	265.0	146.5	140.7	142.1	148.0	159.5	177.4	201.9	206.7
45°	3319.4	2238.7	193.2	136.4	132.0	136.4	140.7	149.4	162.4	176.3	177.4
47.5°	3449.5	2218.4	153.2	126.7	123.8	129.6	133.5	139.2	146.5	145.5	145.5
50°	3571.4	2169.2	123.3	113.8	115.6	122.4	124.3	126.3	126.7	117.6	116.6
52.5°	3663.9	2092.6	98.7	99.8	107.5	114.2	112.3	109.3	104.6	93.5	91.6
55°	3694.7	1945.2	77.6	82.4	95.4	104.1	96.9	90.6	81.4	72.2	70.4
57.5°	3638.8	1754.9	63.1	64.1	80.5	87.7	79.5	72.2	62.2	54.5	53.0
60°	3520.3	1543.3	52.0	48.2	62.2	68.4	63.1	55.9	46.8	41.0	40.5
62.5°	3285.2	1317.9	42.9	37.6	47.3	52.5	49.1	43.9	36.2	32.3	31.8
65°	2790.8	1054.3	34.7	30.3	36.6	41.0	38.0	34.2	28.5	25.6	25.1
67.5°	1948.1	712.6	28.5	25.1	28.9	32.3	29.9	27.9	22.6	22.2	22.6
70°	939.6	343.5	23.6	20.2	22.6	25.1	24.0	22.6	21.7	25.1	28.9
72.5°	269.3	115.2	18.8	16.9	18.3	19.7	20.8	20.2	23.6	30.3	35.1
73°	207.2	93.0	17.8	15.9	17.4	19.3	20.2	19.7	24.0	30.8	35.1
75°	88.7	44.8	13.5	13.0	14.5	16.9	17.8	17.8	24.0	31.3	33.7
77.5°	40.0	24.0	8.6	10.1	12.5	13.5	14.9	14.9	19.3	24.0	24.0
80°	22.6	13.0	6.8	7.7	9.1	9.1	9.1	8.2	8.6	9.7	10.6
82.5°	14.5	8.6	5.3	6.3	5.8	4.8	3.9	3.9	3.4	3.9	4.8
85°	8.2	4.8	4.8	3.9	2.4	2.0	2.4	2.0	0.5	0.0	0.5
87.5°	4.8	2.9	1.4	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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