

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: P385733

Luminaire Tested: **GWC-SA1B-735-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385733  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-SA1B-735-U-T4W  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5692.7 lumens  
Efficiency: N/A  
Efficacy: 129.4 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

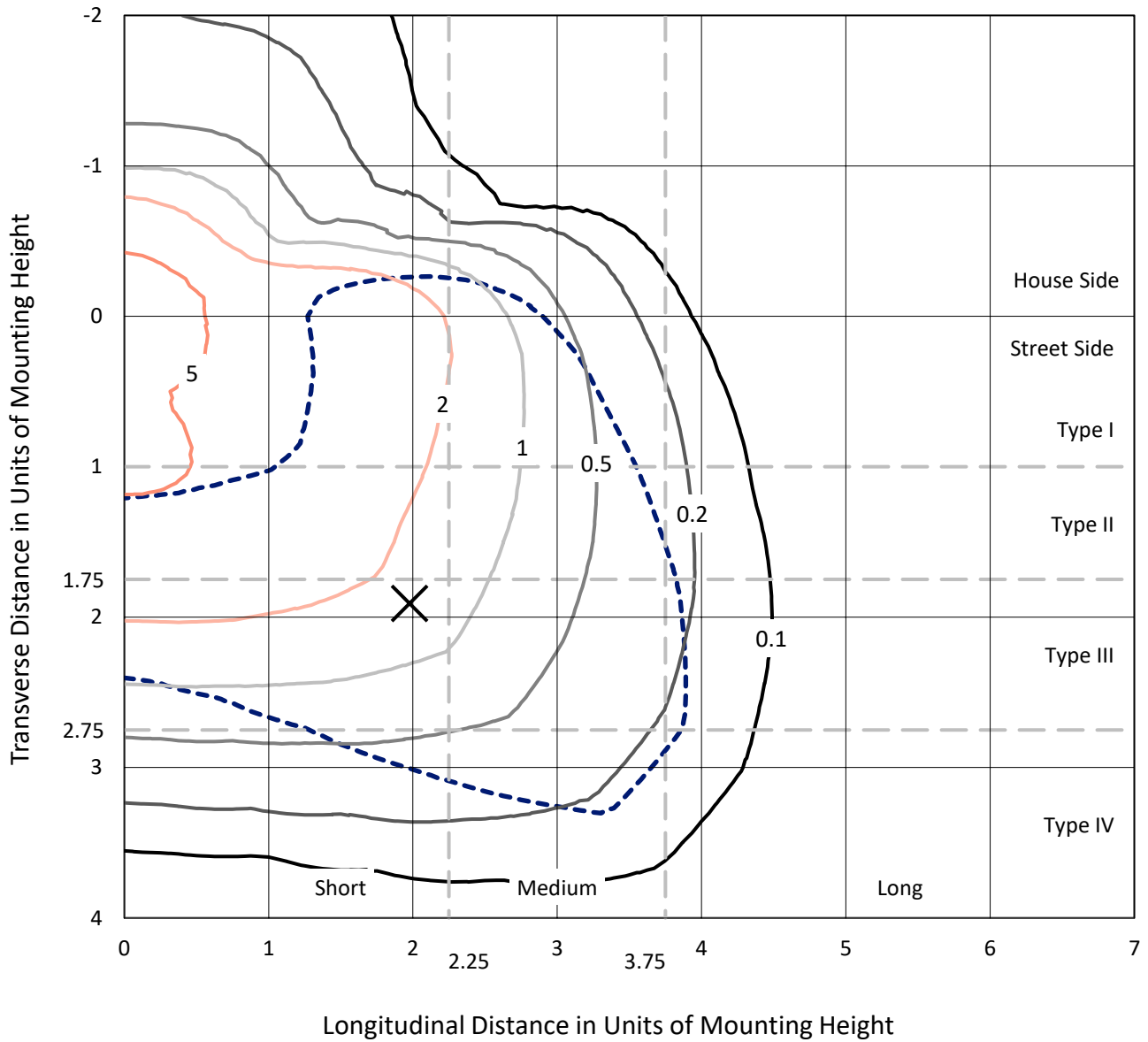
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

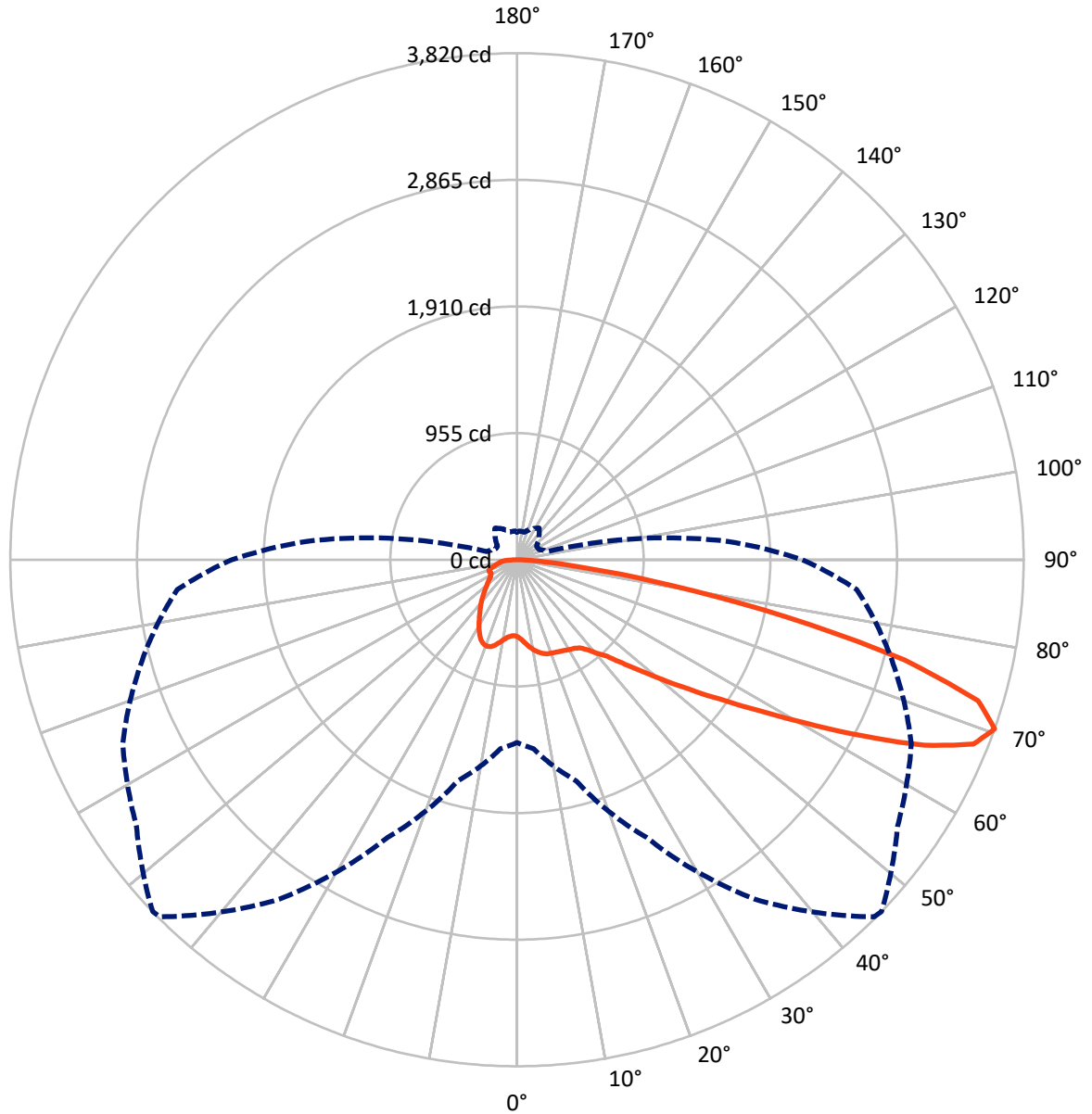
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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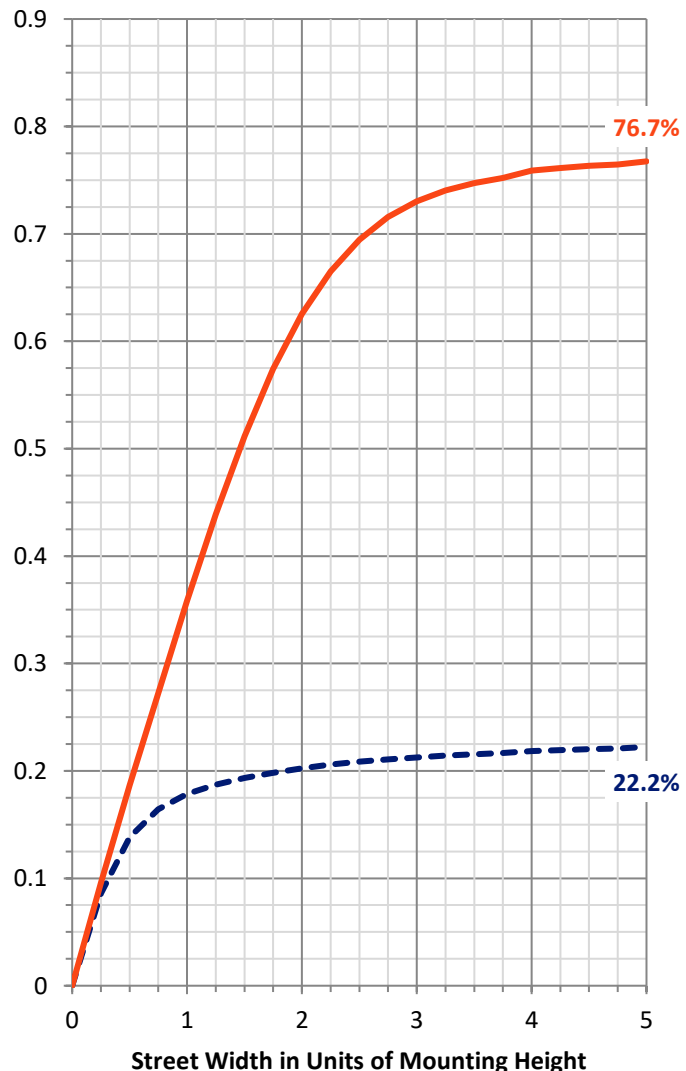
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1304.7	0.0	1304.7
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	4388.0	0.0	4388.0
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	5692.7	0.0	5692.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.1	1.0
10°-20°	197.0	3.5
20°-30°	328.5	5.8
30°-40°	466.1	8.2
40°-50°	685.6	12.0
50°-60°	1161.1	20.4
60°-70°	1648.1	29.0
70°-80°	1001.2	17.6
80°-90°	146.1	2.6
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°	5692.7	100.0
0°-180°	5692.7	100.0



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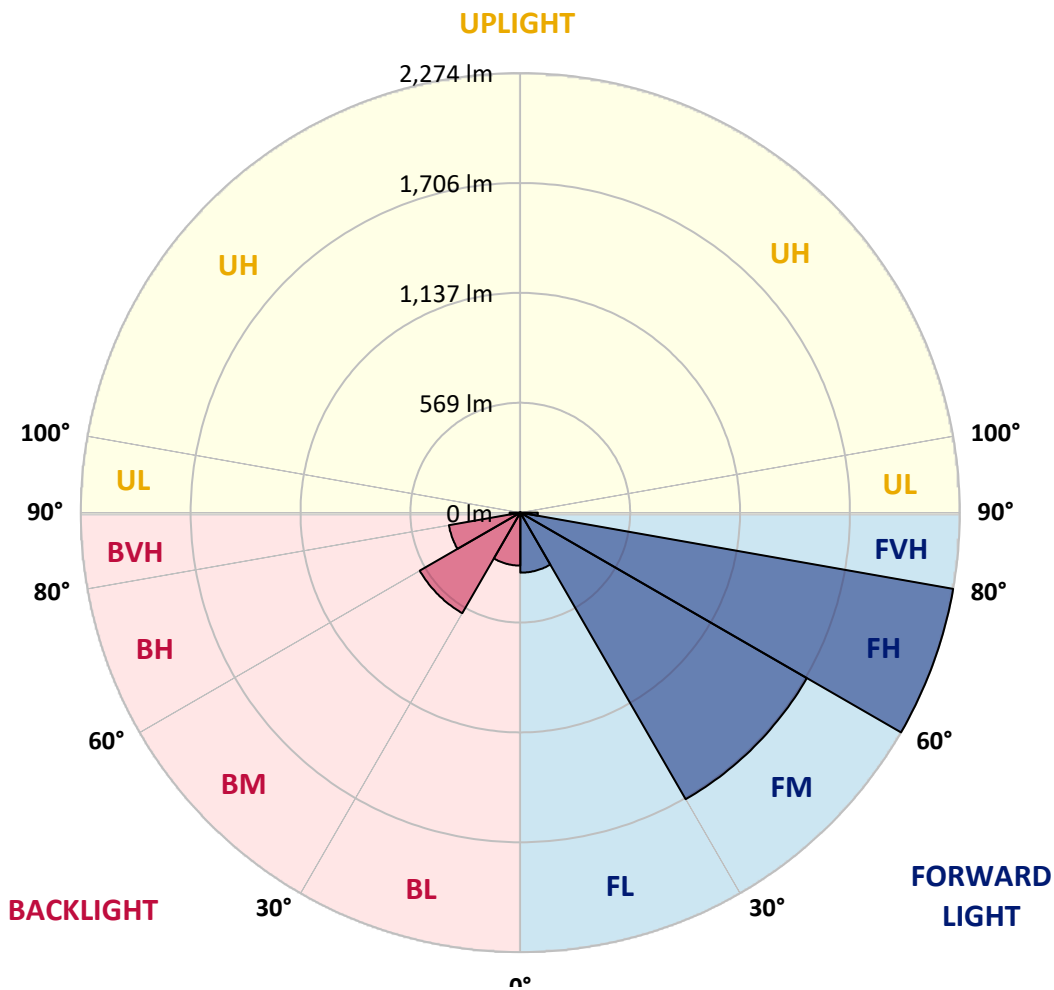
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	310.6	5.5			
FM (30°-60°)	1712.1	30.1			
FH (60°-80°)	2274.2	39.9			G2/5000
FVH (80°-90°)	91.0	1.6			G1/100
BL (0°-30°)	273.9	4.8	B1/500		
BM (30°-60°)	600.6	10.6	B1/1000		
BH (60°-80°)	375.1	6.6	B1/500		G1/500
BVH (80°-90°)	55.1	1.0			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
2.5°	609.0	609.4	610.1	608.3	602.8	601.2	600.6	595.0	591.3	585.8	581.1
5°	657.7	658.1	656.9	651.5	639.4	630.4	629.7	616.8	605.1	592.7	583.3
7.5°	708.6	709.1	705.5	695.2	678.1	662.6	661.6	644.0	626.4	607.4	593.4
10°	753.6	751.2	745.2	730.8	710.7	691.6	690.8	672.5	652.0	629.3	610.6
12.5°	783.5	781.6	773.8	756.3	734.2	716.8	715.2	698.3	678.3	653.4	631.0
15°	800.1	801.5	791.0	771.1	749.6	734.9	733.5	721.5	703.7	678.5	652.9
17.5°	802.2	803.5	793.3	773.6	756.1	746.0	745.4	737.4	724.6	700.4	673.5
20°	789.8	790.6	782.2	766.1	754.5	751.4	751.2	747.8	738.2	716.8	690.6
22.5°	771.7	772.3	766.3	754.5	750.7	755.6	756.9	755.6	748.7	728.6	704.1
25°	767.2	766.8	760.5	748.7	752.0	762.3	764.1	764.7	760.0	742.5	721.3
27.5°	788.8	787.5	775.6	756.5	758.7	771.1	773.4	779.0	776.1	760.8	740.7
30°	851.4	849.0	824.7	786.1	775.6	782.0	785.0	793.9	794.4	781.6	766.6
32.5°	957.0	954.0	910.4	841.4	804.2	793.1	795.9	809.3	816.5	806.6	790.4
35°	1090.4	1087.1	1029.9	935.5	852.1	814.4	816.3	827.0	841.4	827.4	806.0
37.5°	1229.5	1221.5	1166.4	1046.2	928.3	859.7	859.7	861.1	867.9	838.7	824.3
40°	1367.9	1359.9	1310.0	1176.3	1026.9	931.2	926.7	896.6	891.1	865.9	861.1
42.5°	1496.5	1494.1	1464.6	1323.4	1142.6	1001.6	995.3	944.1	945.2	929.7	929.9
45°	1633.1	1633.1	1609.2	1471.8	1277.4	1114.6	1108.3	1033.0	1044.6	1037.4	1054.8
47.5°	1744.8	1748.3	1745.0	1626.6	1434.3	1258.1	1246.9	1156.0	1188.8	1213.5	1264.0
50°	1858.8	1864.2	1864.8	1796.2	1623.8	1428.8	1415.9	1319.5	1392.6	1463.5	1562.7
52.5°	2024.2	2036.4	1987.6	1965.5	1856.1	1631.4	1618.8	1529.7	1651.6	1751.2	1922.1
55°	2177.5	2166.8	2132.0	2145.6	2104.6	1862.1	1852.6	1774.4	1940.4	2069.8	2291.7
57.5°	2260.5	2259.7	2294.8	2353.2	2372.7	2146.5	2138.5	2062.5	2265.9	2363.1	2638.7
60°	2357.9	2359.3	2446.2	2578.8	2659.0	2500.7	2497.2	2439.5	2582.1	2637.1	2910.8
62.5°	2371.5	2396.1	2545.7	2774.0	2927.2	2914.5	2922.3	2779.1	2865.1	2855.7	3114.0
65°	2214.7	2247.0	2517.9	2833.0	3193.7	3367.1	3374.3	3120.6	3088.1	3042.5	3186.7
67.5°	1893.3	1941.2	2235.4	2704.7	3281.6	3701.6	3711.7	3385.4	3273.1	3105.8	3011.7
70°	1377.8	1431.0	1727.1	2310.0	3124.9	3808.5	3820.0	3502.4	3280.2	2925.6	2571.0
72.5°	832.3	873.9	1118.1	1700.6	2637.4	3613.7	3634.1	3354.0	2994.8	2478.1	1898.5
75°	365.5	392.8	540.6	980.0	1888.2	2989.9	3015.5	2870.9	2433.3	1800.9	1122.2
77.5°	155.7	163.5	221.7	425.6	1067.4	2043.1	2078.1	2097.7	1650.9	980.0	474.2
80°	97.0	100.1	125.5	192.7	499.5	1147.5	1185.3	1234.2	819.8	360.3	165.6
82.5°	59.0	62.6	83.4	116.5	260.1	520.1	538.3	572.7	318.2	155.7	85.8
85°	35.4	38.0	51.0	73.6	148.0	204.6	204.4	226.0	149.8	100.1	45.2
87.5°	16.9	18.9	27.2	38.1	74.6	76.7	71.9	81.4	91.0	65.7	22.8
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°	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
2.5°	579.6	578.9	576.3	574.3	574.0	572.7	571.8	572.4	573.1	573.3	573.3
5°	579.4	577.3	574.0	572.6	574.3	576.7	579.6	583.5	585.8	587.6	588.7
7.5°	588.7	584.7	580.9	580.2	583.6	589.9	596.5	604.7	610.3	614.3	615.0
10°	604.3	599.2	595.6	596.3	602.6	611.5	620.8	631.4	640.0	645.3	645.6
12.5°	622.3	617.4	613.9	617.2	627.5	638.4	648.2	657.3	665.1	670.4	670.4
15°	642.9	639.4	635.3	642.9	656.9	666.7	670.7	675.2	679.6	683.4	682.7
17.5°	662.7	659.5	657.3	666.3	680.9	685.4	682.7	679.4	679.4	681.4	681.9
20°	679.9	677.0	678.3	687.2	694.7	690.1	679.9	669.4	665.1	666.3	667.4
22.5°	695.0	693.6	697.7	701.7	696.3	679.9	661.2	647.0	641.7	641.3	641.7
25°	712.4	712.2	717.3	709.9	685.8	655.6	630.4	616.6	613.7	616.1	619.9
27.5°	734.2	736.4	738.9	711.9	664.3	618.8	593.2	583.6	586.6	592.3	596.0
30°	762.1	768.0	762.5	707.0	633.5	576.7	552.3	549.5	557.5	565.5	569.5
32.5°	789.2	798.4	785.1	694.3	593.8	532.1	513.2	512.3	522.1	529.9	535.4
35°	811.1	829.1	802.1	669.2	547.9	490.9	477.1	471.9	475.3	484.5	490.7
37.5°	839.4	869.7	813.8	630.8	498.0	457.0	440.9	428.8	425.6	429.4	432.5
40°	891.5	931.4	819.2	577.3	449.2	423.1	406.8	389.1	376.8	367.8	368.1
42.5°	976.4	1011.9	815.7	512.2	404.2	390.0	371.5	351.1	331.2	310.9	309.3
45°	1114.4	1131.5	805.2	443.2	364.7	355.4	338.0	317.5	291.0	268.1	265.9
47.5°	1335.1	1297.1	788.8	383.0	329.8	326.0	310.0	286.4	258.3	239.8	238.2
50°	1636.0	1536.2	780.8	335.1	299.0	300.2	287.2	262.2	235.7	222.1	220.6
52.5°	1996.1	1814.5	796.2	298.1	274.3	278.4	268.7	245.3	223.1	212.4	210.8
55°	2369.6	2102.9	812.8	271.2	250.9	258.9	255.6	236.4	216.2	206.3	205.0
57.5°	2689.3	2318.1	779.7	249.4	230.1	242.6	245.5	230.6	212.8	203.8	202.3
60°	2890.5	2404.8	692.8	228.9	213.5	229.5	239.6	229.1	214.1	213.3	212.1
62.5°	2986.0	2397.2	562.4	212.8	203.2	223.9	244.0	237.9	229.7	236.7	237.3
65°	2943.1	2282.7	418.9	202.1	195.8	226.0	256.7	254.4	234.2	241.1	242.2
67.5°	2661.0	2009.4	310.2	192.7	187.6	232.0	280.1	259.9	225.4	230.4	227.3
70°	2150.8	1593.0	239.3	182.1	179.2	231.3	290.6	256.5	215.9	217.0	208.6
72.5°	1483.1	1086.3	194.6	172.4	167.1	210.8	283.2	248.4	207.9	198.9	187.8
75°	806.6	583.1	165.4	162.3	145.9	185.1	269.6	242.6	200.7	188.8	182.5
77.5°	317.3	242.0	143.5	148.4	127.6	163.5	254.4	231.5	190.7	175.1	172.0
80°	129.5	123.5	119.0	128.4	109.7	143.0	236.2	218.4	178.9	162.5	156.2
82.5°	73.5	76.7	92.5	101.3	89.1	131.7	227.3	207.9	164.6	145.5	138.1
85°	37.6	45.0	64.4	72.7	65.5	112.0	209.4	182.0	132.1	111.4	112.0
87.5°	18.1	25.2	40.7	45.6	42.5	81.1	156.4	131.9	102.9	81.4	78.9
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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