

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: P386639

Luminaire Tested: **GWC-SA2B-750-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P386639  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-SA2B-750-U-SL3  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11928 lumens  
Efficiency: N/A  
Efficacy: 138.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

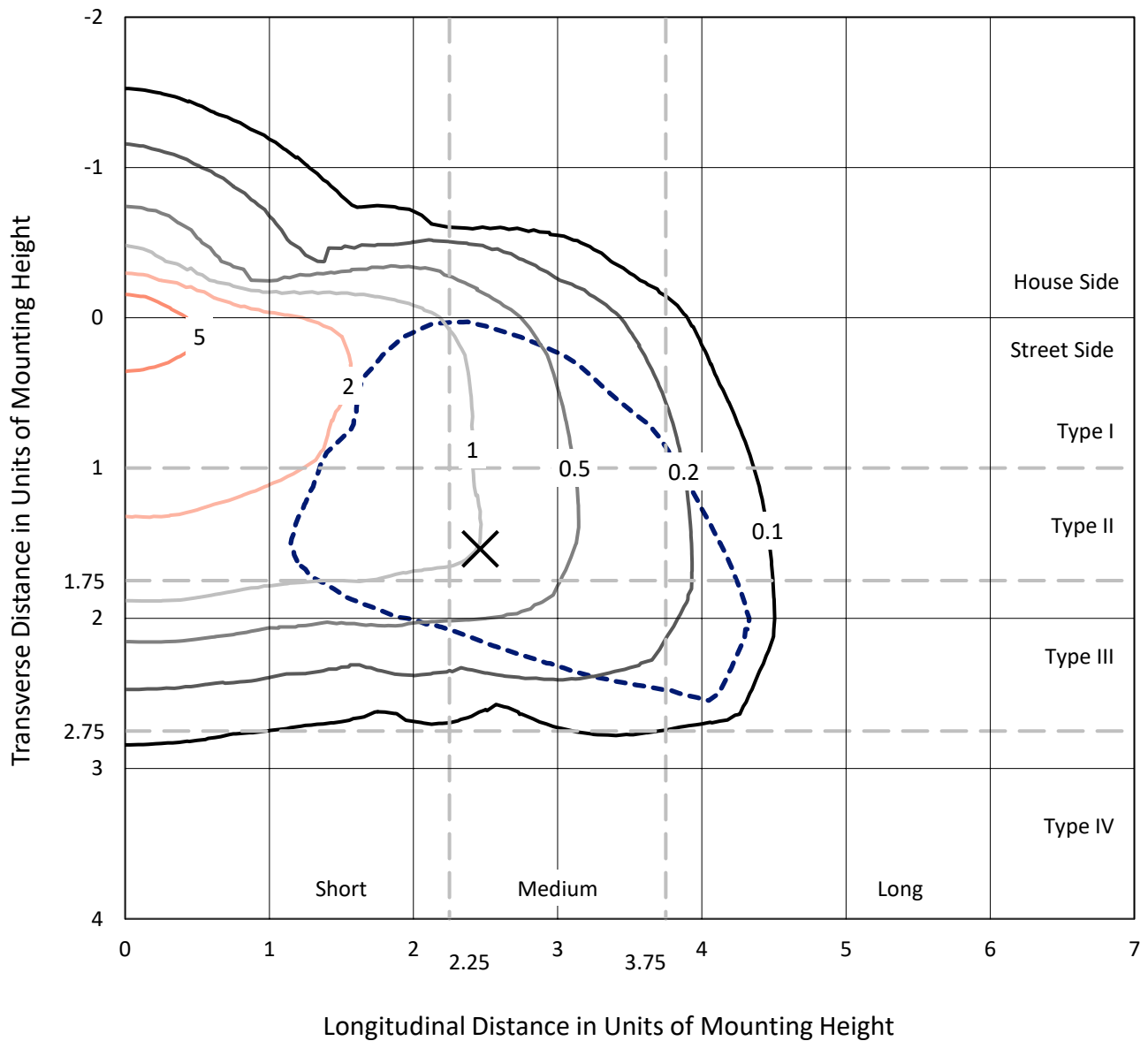


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### Iso-Footcandle Lines of Horizontal Illumination

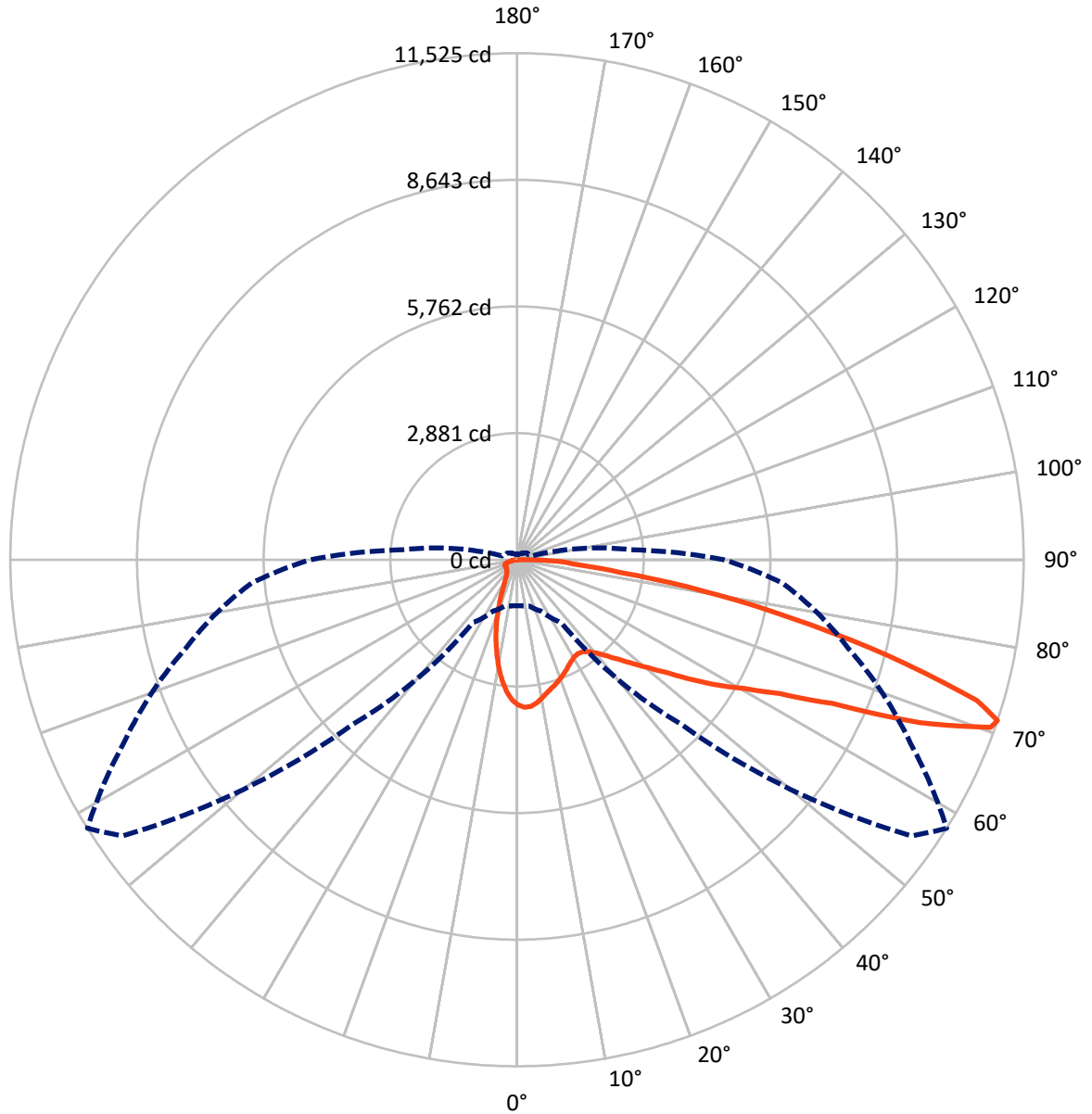
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical



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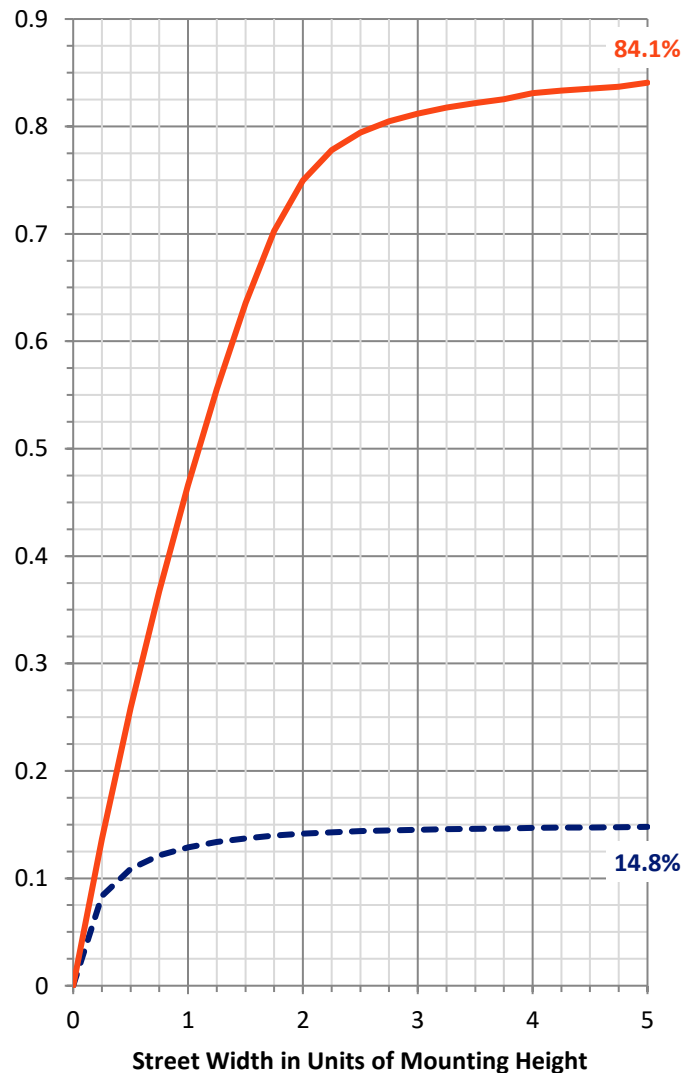
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1783.3	0.0	1783.3
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	10144.7	0.0	10144.7
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	11928.0	0.0	11928.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	285.1	2.4
10°-20°	634.0	5.3
20°-30°	805.7	6.8
30°-40°	1026.3	8.6
40°-50°	1455.4	12.2
50°-60°	2252.2	18.9
60°-70°	3066.1	25.7
70°-80°	2045.5	17.1
80°-90°	357.6	3.0
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°	11928.0	100.0
0°-180°	11928.0	100.0

**Coefficient of Utilization**



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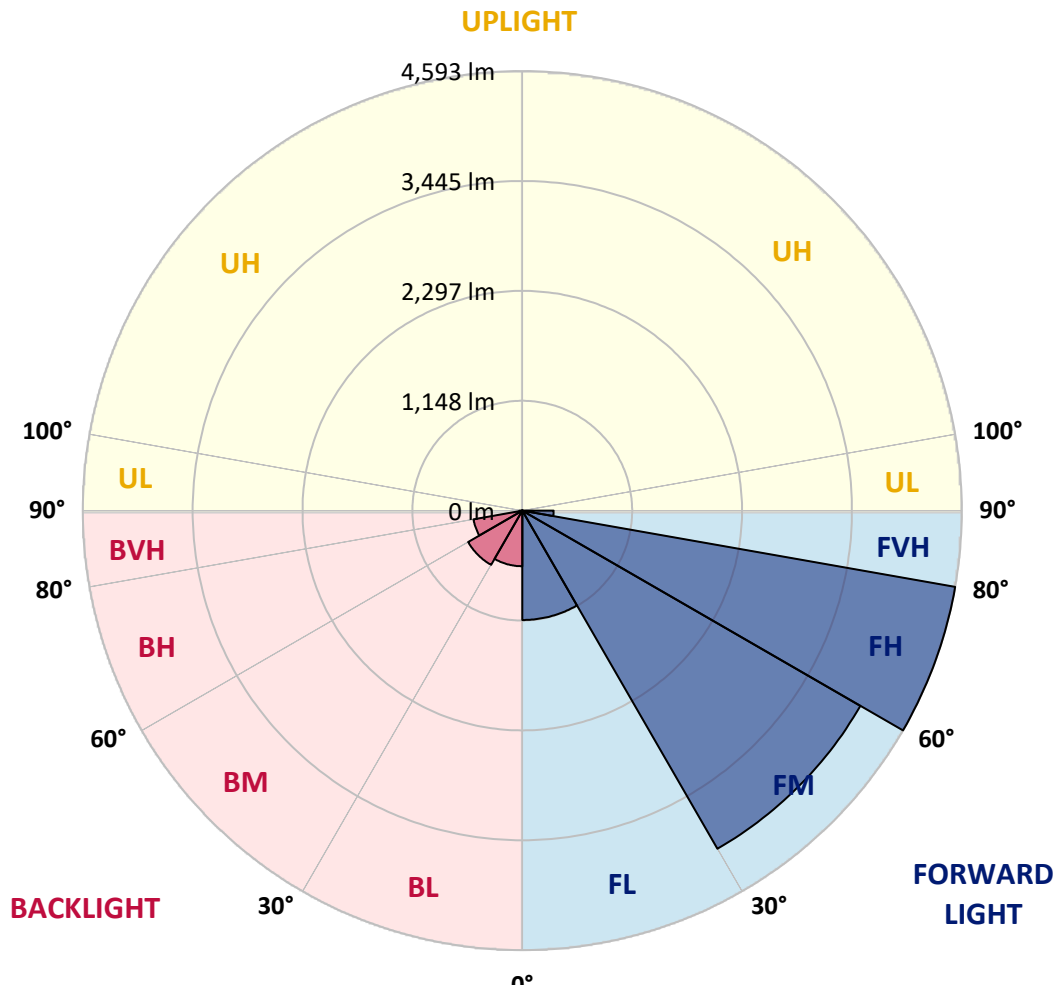
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1143.5	9.6			
FM (30°-60°)	4080.0	34.2			
FH (60°-80°)	4593.3	38.5			G2/5000
FVH (80°-90°)	327.9	2.7			G3/500
BL (0°-30°)	581.3	4.9	B2/1000		
BM (30°-60°)	654.0	5.5	B1/1000		
BH (60°-80°)	518.3	4.3	B2/1000		G2/1000
BVH (80°-90°)	29.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3304.9	3304.9	3304.9	3304.9	3304.9	3304.9	3304.9	3304.9	3304.9	3304.9	3304.9
2.5°	3392.5	3388.0	3389.6	3386.3	3378.4	3370.5	3358.9	3360.9	3344.7	3320.6	3290.7
5°	3328.5	3326.9	3339.3	3346.4	3352.2	3347.6	3344.3	3348.5	3324.8	3291.6	3239.6
7.5°	3194.3	3176.0	3191.8	3215.5	3238.0	3255.0	3277.4	3280.3	3265.4	3230.5	3162.3
10°	3003.6	2986.2	3009.4	3046.4	3091.3	3132.0	3177.3	3185.6	3188.5	3156.9	3074.3
12.5°	2805.8	2792.5	2815.8	2867.8	2942.1	3004.9	3077.2	3089.6	3115.4	3094.2	2992.8
15°	2628.8	2623.9	2652.1	2703.2	2788.8	2884.8	2989.1	3011.9	3055.6	3048.5	2929.2
17.5°	2475.9	2474.7	2496.3	2549.9	2644.6	2766.0	2901.4	2940.0	3004.9	3013.2	2876.9
20°	2362.1	2359.6	2374.6	2414.0	2511.7	2649.2	2806.7	2859.9	2953.3	2982.4	2822.9
22.5°	2301.0	2300.6	2301.0	2319.7	2399.5	2527.5	2714.4	2779.3	2903.1	2957.9	2763.0
25°	2290.6	2289.4	2280.2	2278.2	2323.5	2425.7	2623.0	2694.5	2855.3	2940.9	2706.1
27.5°	2317.6	2319.3	2307.2	2287.7	2296.9	2358.8	2543.7	2620.1	2817.1	2937.6	2666.7
30°	2373.7	2372.9	2362.5	2342.1	2324.3	2333.8	2487.2	2563.6	2791.3	2952.1	2639.6
32.5°	2435.6	2440.2	2438.1	2426.9	2400.3	2362.1	2470.1	2544.9	2783.8	2987.0	2628.0
35°	2510.0	2515.0	2530.0	2538.7	2507.5	2446.0	2506.7	2571.5	2805.4	3052.6	2646.7
37.5°	2580.6	2593.5	2635.5	2672.5	2645.9	2577.3	2603.9	2650.0	2872.3	3156.1	2697.0
40°	2662.1	2673.3	2741.9	2820.4	2816.2	2745.2	2760.6	2791.3	2990.3	3304.4	2788.0
42.5°	2742.3	2764.7	2864.0	2975.4	3007.4	2944.6	2969.1	2985.3	3156.5	3501.0	2946.7
45°	2849.1	2873.2	3011.1	3145.3	3220.1	3184.8	3223.8	3230.1	3365.5	3768.5	3177.3
47.5°	3010.7	3038.1	3198.9	3339.8	3454.0	3457.8	3522.2	3519.7	3626.4	4074.8	3467.7
50°	3262.5	3301.9	3433.7	3565.4	3704.1	3781.4	3867.4	3855.4	3939.3	4400.9	3802.2
52.5°	3592.4	3610.7	3708.3	3805.5	3978.0	4151.2	4274.6	4263.8	4294.1	4736.2	4182.0
55°	3934.3	3948.0	3988.3	4041.5	4273.4	4555.9	4816.8	4799.8	4722.9	5084.4	4557.2
57.5°	4241.8	4269.6	4297.5	4319.5	4570.9	4978.9	5371.5	5372.8	5188.3	5460.0	4944.8
60°	4289.6	4314.1	4498.2	4671.8	5079.9	5543.1	5965.3	5952.8	5669.9	5867.6	5376.9
62.5°	3791.8	3847.1	4154.5	4616.6	5570.1	6575.2	6722.7	6707.3	6245.7	6370.0	5880.1
65°	2717.3	2780.1	3151.1	3845.4	5332.5	7712.4	8089.7	7882.8	7031.0	6987.8	6469.3
67.5°	1567.7	1582.6	1743.4	2301.0	4060.2	7771.8	10175.1	9885.5	8250.5	7688.7	6757.6
70°	1159.2	1158.8	1197.0	1416.0	2197.1	6343.0	11166.9	11426.5	9534.4	7919.3	6350.0
71°	1048.3	1049.5	1092.3	1288.9	1740.1	5309.2	10956.2	11524.6	9872.6	7805.5	6055.0
72.5°	896.6	900.8	960.2	1155.9	1463.8	3661.3	10048.8	10936.3	10033.0	7524.6	5593.4
75°	680.2	689.7	772.0	974.3	1337.9	1856.9	7375.0	8732.9	8912.8	6639.6	4156.2
77.5°	485.3	496.1	589.2	819.4	1271.8	1399.4	4939.0	6370.0	6559.0	4255.1	1874.7
80°	306.6	319.5	389.7	651.9	1195.0	1328.8	3103.8	4281.7	3576.6	1361.6	477.0
82.5°	179.9	189.9	241.8	425.9	976.0	1279.7	1826.1	2373.3	1391.9	411.3	216.9
85°	104.3	108.9	150.8	271.3	708.8	1207.8	1341.6	1326.7	604.1	201.1	102.6
87.5°	48.6	54.0	89.3	141.7	393.5	875.4	1060.3	916.2	375.6	94.3	48.2
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°	3304.9	3304.9	3304.9	3304.9	3304.9	3304.9	3304.9	3304.9	3304.9	3304.9	3304.9
2.5°	3276.2	3269.1	3239.6	3213.4	3186.0	3150.3	3110.8	3105.8	3081.7	3086.3	3078.0
5°	3211.4	3193.5	3122.5	3058.0	2982.0	2913.9	2839.9	2805.8	2756.8	2753.5	2741.0
7.5°	3118.7	3085.5	2975.4	2853.2	2731.1	2614.7	2499.6	2424.0	2346.7	2313.9	2311.0
10°	3014.4	2957.9	2795.9	2615.1	2439.0	2269.0	2104.5	1982.7	1873.1	1821.1	1819.0
12.5°	2915.5	2832.0	2609.7	2363.8	2122.8	1902.6	1676.9	1517.0	1379.4	1333.3	1313.8
15°	2831.6	2714.0	2428.6	2114.0	1821.5	1515.7	1259.0	1090.7	963.5	919.5	911.2
17.5°	2750.2	2598.9	2242.8	1861.8	1508.2	1172.1	914.9	789.9	722.1	704.3	703.8
20°	2669.1	2480.5	2048.8	1603.8	1205.4	876.7	703.4	647.3	624.5	622.4	619.1
22.5°	2577.3	2355.0	1844.8	1345.0	940.7	689.3	597.9	575.5	572.6	580.0	580.0
25°	2491.3	2230.4	1637.9	1091.5	731.7	575.0	533.9	529.3	537.2	550.5	551.8
27.5°	2411.1	2110.3	1436.0	866.3	586.3	506.5	489.5	494.9	509.0	524.4	524.8
30°	2345.1	1996.9	1239.8	682.7	495.3	455.4	452.5	463.3	478.7	490.7	493.6
32.5°	2294.0	1900.1	1050.4	548.9	435.9	417.2	419.7	428.8	438.3	445.0	449.6
35°	2270.3	1817.0	875.4	462.9	398.0	387.7	391.0	396.0	400.1	405.1	408.8
37.5°	2274.4	1752.6	719.2	409.3	372.7	367.3	367.3	367.3	367.3	369.8	370.2
40°	2313.1	1715.6	592.1	375.2	355.7	349.8	345.3	341.1	337.8	339.5	338.6
42.5°	2412.0	1712.3	499.0	353.6	342.0	332.4	323.3	317.4	313.3	314.9	315.8
45°	2579.8	1753.8	436.3	338.2	329.1	314.5	302.9	296.7	293.8	299.2	300.0
47.5°	2797.1	1844.4	398.0	327.0	317.0	297.9	285.4	279.6	280.5	288.4	290.4
50°	3077.2	1991.5	379.8	319.9	308.7	283.8	270.9	265.9	268.4	279.6	282.1
52.5°	3384.6	2203.4	381.8	317.9	303.3	273.4	259.7	253.9	258.0	268.4	270.5
55°	3739.5	2458.1	416.3	320.8	295.4	266.7	250.5	240.6	243.9	253.5	255.1
57.5°	4133.8	2749.8	485.7	319.9	285.4	260.5	241.0	226.0	228.5	234.3	236.0
60°	4544.3	3102.1	593.3	322.4	280.9	253.0	228.1	209.4	208.6	213.6	214.4
62.5°	5037.1	3509.7	716.3	324.1	283.8	243.5	211.1	192.8	190.3	191.5	192.4
65°	5544.8	3804.7	670.2	317.4	292.9	235.6	196.1	176.6	172.0	171.2	171.6
67.5°	5560.6	3488.5	469.9	304.1	296.7	231.4	184.9	162.9	155.4	152.5	152.1
70°	4986.8	2834.1	366.1	290.0	281.7	224.8	174.5	151.7	140.4	135.9	135.5
71°	4706.7	2608.9	346.9	283.0	270.5	218.1	169.9	146.7	135.0	130.1	129.2
72.5°	4267.6	2338.8	323.7	271.7	248.9	201.1	161.2	139.6	127.6	121.7	120.5
75°	3062.6	1529.4	278.0	242.2	206.1	160.4	141.3	125.5	115.1	108.0	107.2
77.5°	1180.0	608.7	210.2	201.5	157.9	125.5	116.3	108.4	101.0	93.9	93.5
80°	364.8	272.1	153.3	151.7	114.3	93.5	90.6	88.5	85.6	78.1	76.5
82.5°	194.9	156.2	105.5	98.1	74.8	62.3	65.6	66.5	66.9	59.0	58.2
85°	93.1	82.7	59.4	55.7	43.6	34.9	40.3	43.6	44.0	36.1	33.7
87.5°	44.5	43.2	27.8	21.2	16.2	11.6	14.1	17.5	19.1	13.7	12.0
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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