

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: P387001

Luminaire Tested: **GWC-SA2D-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P387001
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-SA2D-727-U-SL2
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13266 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

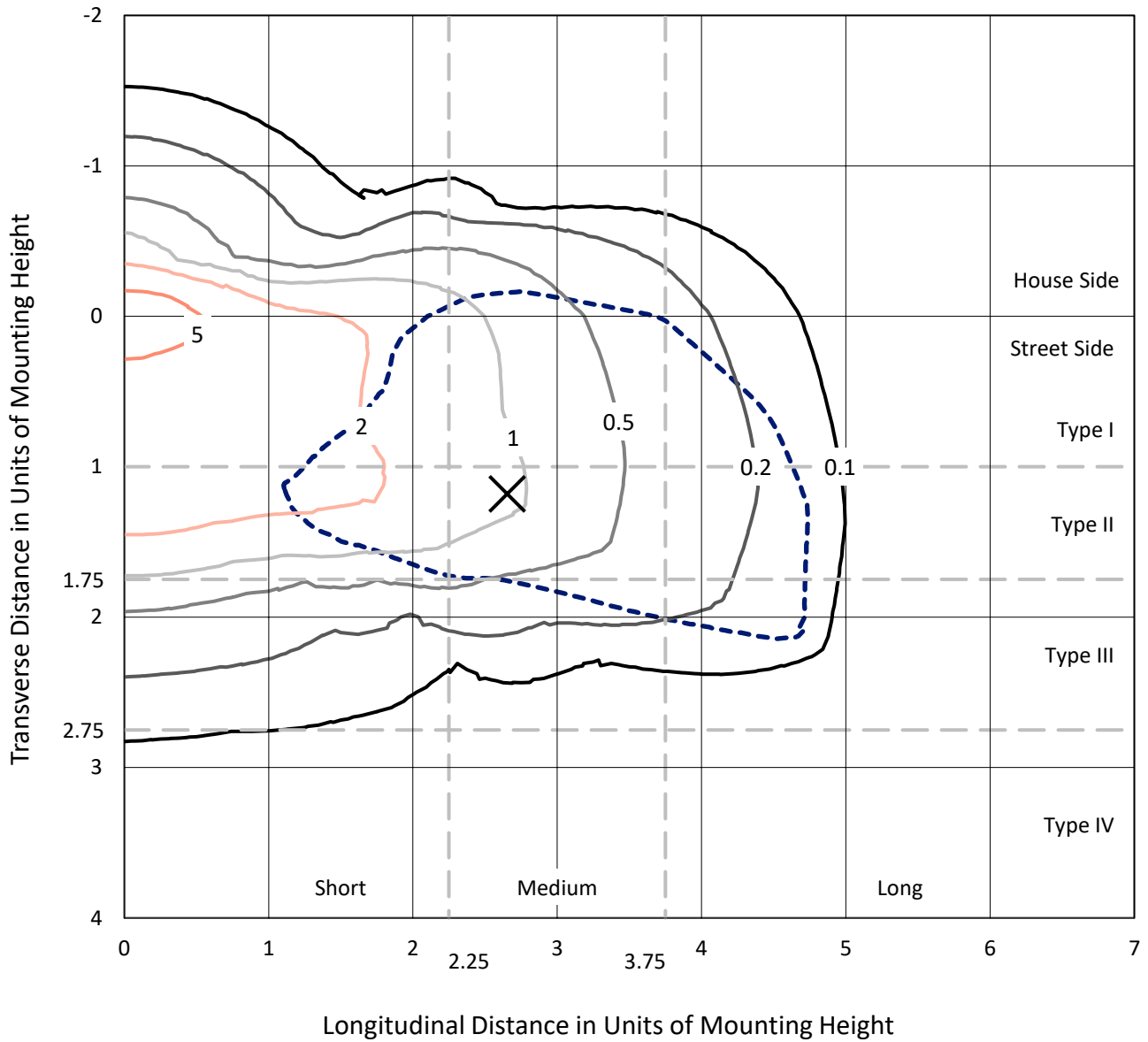
Input Watts (W): 129
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

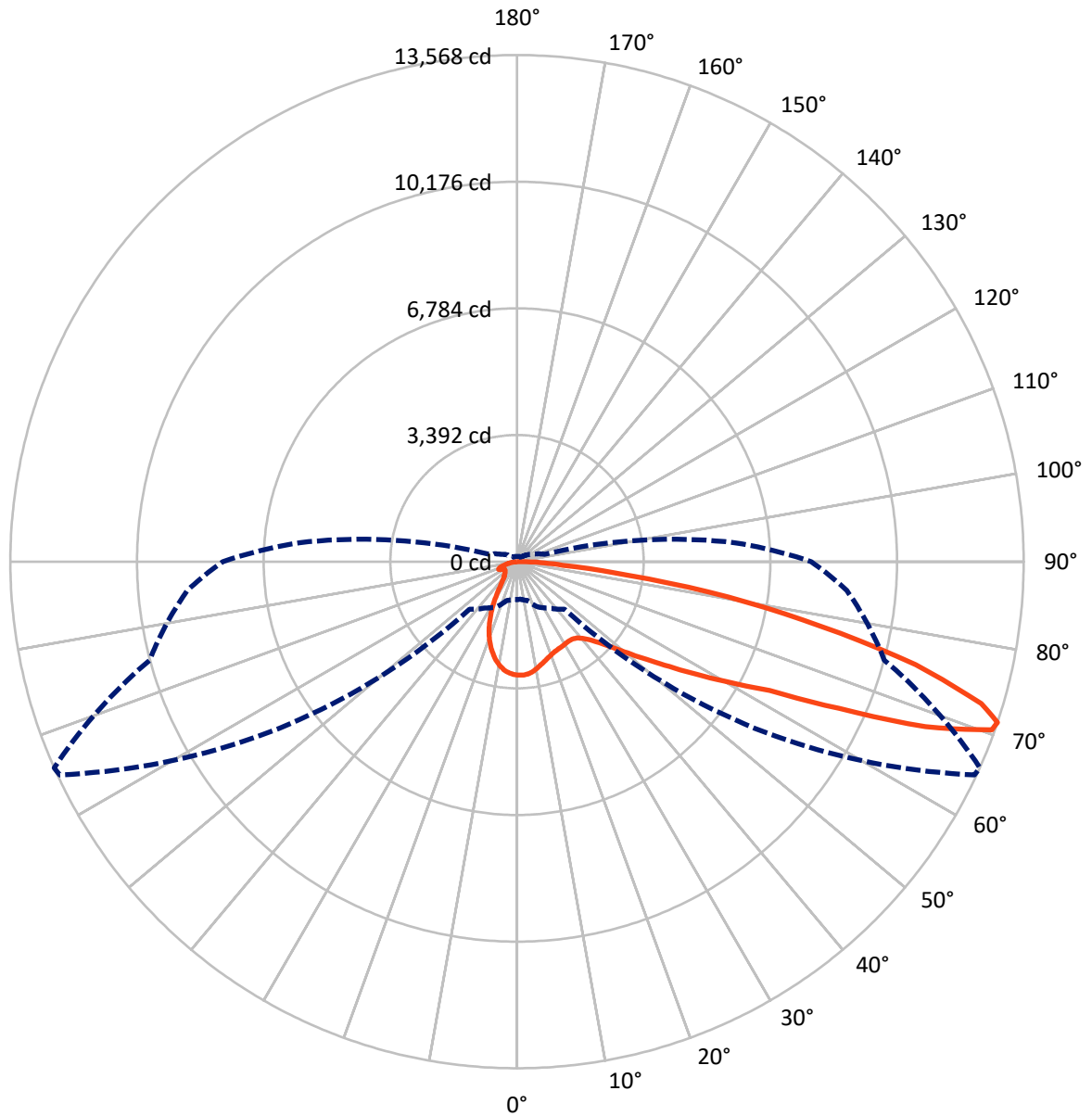
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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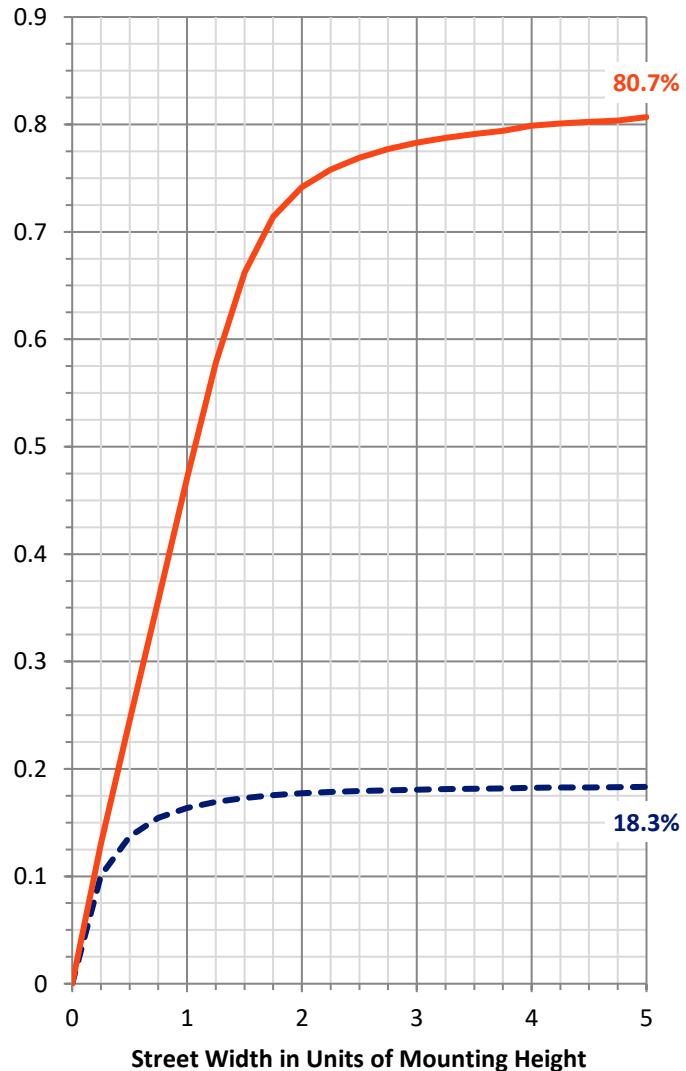
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2458.5	0.0	2458.5
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	10807.4	0.0	10807.4
	% Fixture	81.5	0.0	81.5
Total	Lumens	13266.0	0.0	13266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.5	2.0
10°-20°	641.6	4.8
20°-30°	861.8	6.5
30°-40°	1133.7	8.5
40°-50°	1649.2	12.4
50°-60°	2576.3	19.4
60°-70°	3227.2	24.3
70°-80°	2461.6	18.6
80°-90°	447.0	3.4
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°	13266.0	100.0
0°-180°	13266.0	100.0

Coefficient of Utilization



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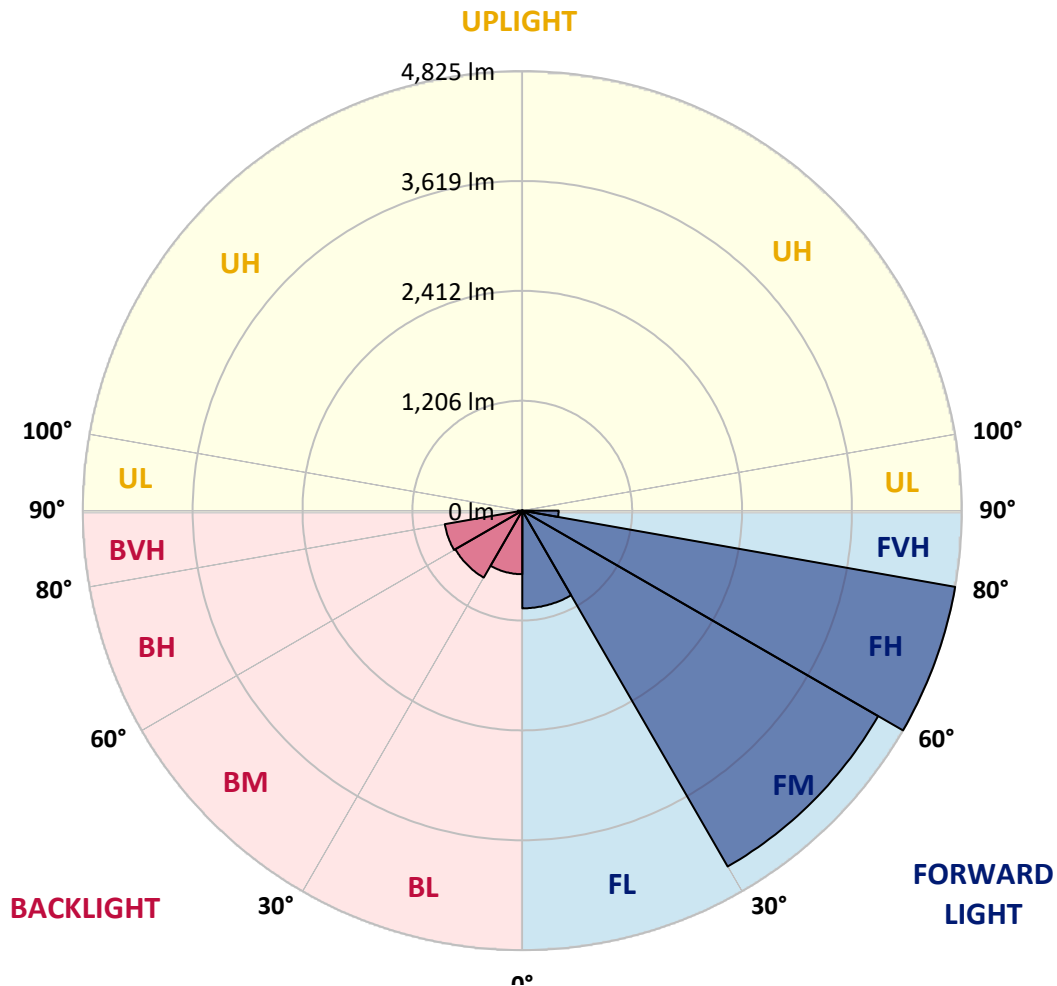
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1072.7	8.1			
FM (30°-60°)	4511.1	34.0			
FH (60°-80°)	4825.0	36.4			G2/5000
FVH (80°-90°)	398.6	3.0			G3/500
BL (0°-30°)	698.2	5.3	B2/1000		
BM (30°-60°)	848.1	6.4	B1/1000		
BH (60°-80°)	863.9	6.5	B2/1000		G2/1000
BVH (80°-90°)	48.4	0.4			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°	65°	66°	75°	85°
0°	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0
2.5°	2982.6	2978.1	2991.8	3006.0	3011.5	3020.7	3034.4	3042.2	3041.7	3043.1	3038.5
5°	2784.8	2778.8	2806.3	2828.8	2871.8	2920.4	2979.4	3021.6	3022.5	3046.3	3052.7
7.5°	2597.4	2593.3	2624.9	2661.1	2711.0	2785.2	2881.0	2971.7	2977.2	3041.7	3064.2
10°	2447.2	2446.3	2477.0	2516.4	2574.5	2657.5	2767.4	2900.2	2908.4	3019.7	3066.0
12.5°	2330.0	2331.8	2358.4	2403.2	2464.6	2551.2	2670.3	2820.0	2833.3	2984.9	3055.5
15°	2243.4	2250.7	2272.3	2317.6	2378.1	2466.0	2588.3	2745.8	2766.0	2946.0	3049.5
17.5°	2193.9	2202.2	2217.3	2254.8	2311.6	2396.4	2512.3	2684.9	2703.3	2916.2	3050.0
20°	2179.3	2186.1	2194.8	2217.7	2265.8	2342.8	2452.3	2630.0	2649.7	2892.4	3054.6
22.5°	2208.1	2213.2	2214.1	2212.3	2241.6	2304.3	2408.7	2589.7	2610.7	2876.8	3057.8
25°	2270.0	2276.8	2271.8	2254.8	2245.2	2283.7	2386.3	2563.1	2584.2	2865.4	3051.4
27.5°	2362.9	2363.9	2359.7	2337.8	2292.4	2286.0	2379.4	2547.5	2567.7	2852.1	3038.1
30°	2489.4	2495.3	2488.0	2458.2	2384.0	2322.6	2387.7	2532.4	2550.7	2835.2	3016.5
32.5°	2637.3	2652.0	2651.5	2620.4	2514.1	2404.6	2421.6	2523.2	2537.4	2817.3	2990.4
35°	2790.7	2810.9	2848.4	2835.2	2703.7	2534.2	2486.6	2537.9	2547.5	2815.0	2972.1
37.5°	2950.1	2970.3	3047.7	3083.4	2929.5	2719.7	2589.2	2589.7	2594.2	2842.9	2970.7
40°	3116.8	3138.4	3254.7	3347.7	3222.2	2954.7	2754.6	2697.8	2692.7	2911.7	2997.8
42.5°	3350.4	3369.7	3509.4	3628.0	3546.9	3255.6	2983.1	2864.5	2853.9	3046.3	3084.3
45°	3645.9	3662.4	3810.8	3937.6	3895.9	3599.1	3270.3	3093.9	3092.1	3270.7	3259.8
47.5°	3997.2	4010.0	4143.3	4266.0	4281.1	3994.4	3631.2	3448.0	3418.2	3578.5	3531.4
50°	4363.1	4377.3	4468.0	4599.9	4712.1	4523.4	4095.6	3881.7	3841.9	3984.8	3916.1
52.5°	4605.4	4624.2	4703.0	4870.2	5196.7	5103.3	4644.8	4407.6	4347.1	4477.2	4424.5
55°	4497.3	4539.5	4659.9	4927.9	5584.2	5989.1	5322.2	5020.9	4952.6	5060.7	5029.6
57.5°	4005.9	4063.6	4228.0	4641.6	5638.7	6769.6	6346.4	5743.2	5695.1	5663.9	5678.1
60°	3107.7	3163.1	3366.9	3906.0	5259.0	7339.4	7887.6	6633.5	6563.9	6269.4	6282.2
62.5°	2199.4	2171.5	2311.2	2705.5	4273.4	7406.2	9641.4	7824.4	7595.4	6908.8	6852.5
65°	1677.3	1670.9	1733.6	1859.1	2588.3	6606.1	10686.1	9826.0	9468.3	7660.9	7528.1
67.5°	1378.2	1366.7	1428.6	1611.3	1666.7	4261.9	10709.0	12148.1	11796.8	8597.1	8309.5
70°	1133.1	1120.3	1178.0	1413.9	1540.3	2161.4	9013.0	13508.0	13489.2	9782.5	8899.4
71°	1015.9	1006.7	1075.9	1337.9	1513.3	1801.4	7781.8	13511.7	13568.0	10183.7	8864.6
72.5°	827.2	830.4	903.7	1190.9	1493.2	1590.7	5719.3	12881.9	13001.0	10566.1	8548.1
75°	549.6	552.4	648.6	916.0	1447.8	1556.4	3143.4	10809.3	11028.3	10337.1	7800.1
77.5°	369.2	368.3	433.7	628.4	1261.4	1556.4	1843.1	8084.6	8325.0	8225.2	6013.4
80°	254.2	252.4	298.6	433.7	955.0	1575.1	1424.9	5665.7	5738.6	4441.9	2444.0
82.5°	155.7	157.1	195.1	306.4	649.9	1417.6	1345.2	3089.4	3010.1	1245.8	610.5
85°	89.3	88.9	124.6	207.5	417.3	1196.4	1311.8	1329.6	1219.7	375.1	220.8
87.5°	32.1	34.4	66.9	115.0	239.1	833.1	1113.0	691.6	623.4	169.5	99.8
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°	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0
2.5°	3035.3	3038.1	3034.9	3016.5	3001.0	2975.8	2961.6	2941.9	2935.9	2933.2	2940.5
5°	3046.8	3047.7	3020.7	2972.6	2918.5	2854.9	2809.1	2752.7	2726.2	2714.7	2722.0
7.5°	3057.3	3053.2	2994.1	2902.0	2802.2	2691.3	2592.9	2502.6	2450.0	2428.4	2430.3
10°	3058.7	3041.3	2946.5	2804.0	2649.2	2486.6	2335.5	2196.2	2108.3	2051.0	2068.4
12.5°	3044.5	3015.2	2876.4	2677.1	2462.3	2240.6	2036.4	1827.5	1702.0	1643.8	1645.7
15°	3033.5	2980.4	2790.3	2527.8	2239.3	1945.7	1666.7	1421.2	1287.5	1228.0	1200.0
17.5°	3024.3	2942.8	2690.4	2359.7	1975.9	1603.5	1268.3	1049.3	976.0	958.6	951.3
20°	3011.5	2903.0	2579.1	2165.1	1675.9	1220.6	926.1	818.0	818.5	838.6	841.4
22.5°	2993.6	2857.6	2460.5	1946.6	1353.9	889.0	726.0	694.8	726.4	764.9	771.8
25°	2967.1	2804.0	2328.6	1705.2	1032.4	683.4	620.2	618.8	657.3	697.6	703.5
27.5°	2929.5	2733.9	2182.0	1446.0	760.8	580.8	555.6	565.2	593.6	622.9	625.2
30°	2879.1	2652.4	2020.3	1172.5	596.3	517.1	514.4	523.1	540.5	561.1	562.9
32.5°	2823.7	2569.5	1847.7	907.8	510.7	482.8	485.5	489.6	497.9	506.1	507.9
35°	2773.3	2484.8	1670.9	689.8	469.9	460.3	458.5	457.6	458.5	455.7	456.2
37.5°	2740.8	2414.7	1486.7	549.2	446.6	440.6	435.1	428.3	420.5	415.9	416.8
40°	2728.9	2362.5	1300.3	474.5	427.3	423.2	412.7	398.0	388.9	386.1	386.1
42.5°	2761.0	2335.5	1120.3	437.0	411.3	404.4	387.0	370.1	363.2	362.8	362.3
45°	2859.0	2346.5	949.0	416.3	396.6	383.4	360.5	346.3	341.7	342.6	342.1
47.5°	3034.9	2415.6	802.5	402.6	382.0	364.6	338.9	327.5	322.0	322.0	322.4
50°	3334.0	2577.3	685.7	391.2	369.6	347.2	323.4	309.2	301.8	301.4	301.4
52.5°	3769.5	2866.8	612.8	381.5	355.9	331.6	307.8	289.9	281.2	279.4	278.5
55°	4315.5	3281.7	592.7	375.1	337.6	314.7	289.0	271.1	261.5	257.4	257.0
57.5°	4926.0	3786.5	632.5	367.3	318.8	294.5	268.4	251.5	241.4	236.3	235.9
60°	5543.9	4337.5	795.1	356.3	303.2	272.5	247.3	231.8	221.7	216.2	215.3
62.5°	6162.7	4918.3	1127.2	355.4	292.2	251.5	225.8	212.5	202.9	196.9	195.6
65°	6860.7	5554.0	1504.6	379.7	288.6	232.2	203.8	193.3	185.0	179.5	179.1
67.5°	7662.3	6271.7	1468.4	429.6	300.9	214.8	183.2	175.0	169.0	164.4	164.0
70°	8038.3	6159.5	912.8	464.9	318.3	197.9	163.5	157.6	153.0	149.8	148.4
71°	7880.7	5848.5	765.4	460.8	316.5	190.5	155.7	151.1	146.6	143.8	142.4
72.5°	7451.1	5333.7	638.5	428.7	295.9	177.3	145.7	141.1	136.9	133.7	132.8
75°	6686.2	4763.4	511.2	342.6	235.9	149.8	127.8	122.8	119.5	117.7	115.9
77.5°	4915.0	3399.4	395.3	270.7	173.6	122.3	109.0	105.3	102.1	99.4	98.0
80°	1882.9	1316.8	266.1	202.0	127.3	96.6	87.9	86.1	82.9	81.1	81.1
82.5°	507.0	393.4	142.0	122.3	85.2	70.5	67.3	66.4	63.7	60.0	60.5
85°	205.2	173.6	79.7	67.3	52.2	41.7	45.3	45.8	42.6	38.0	38.5
87.5°	90.2	73.7	44.4	29.8	22.9	16.0	20.6	20.6	18.8	15.6	14.2
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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