

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: P386638

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P386638
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
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-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10189 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

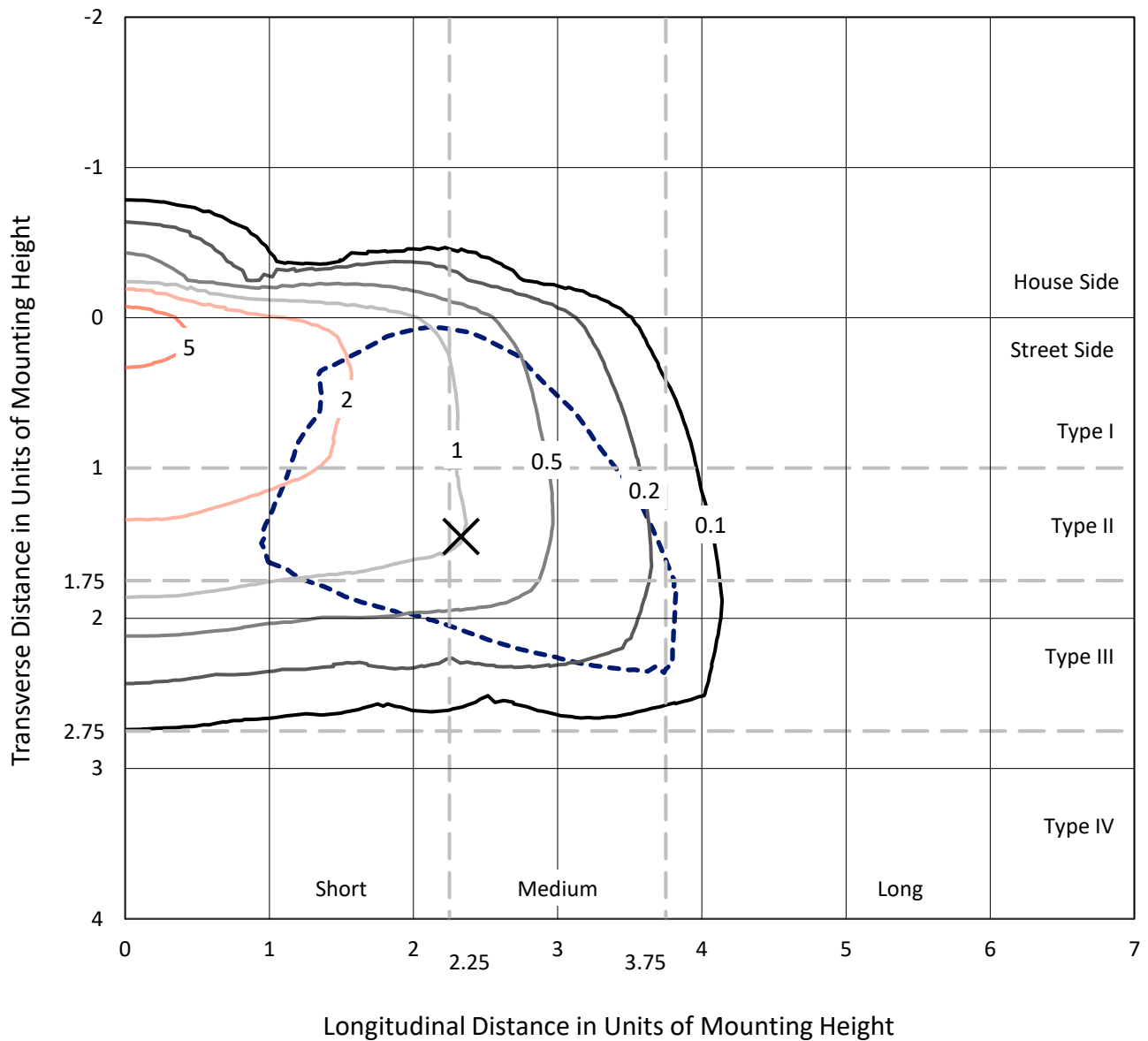
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

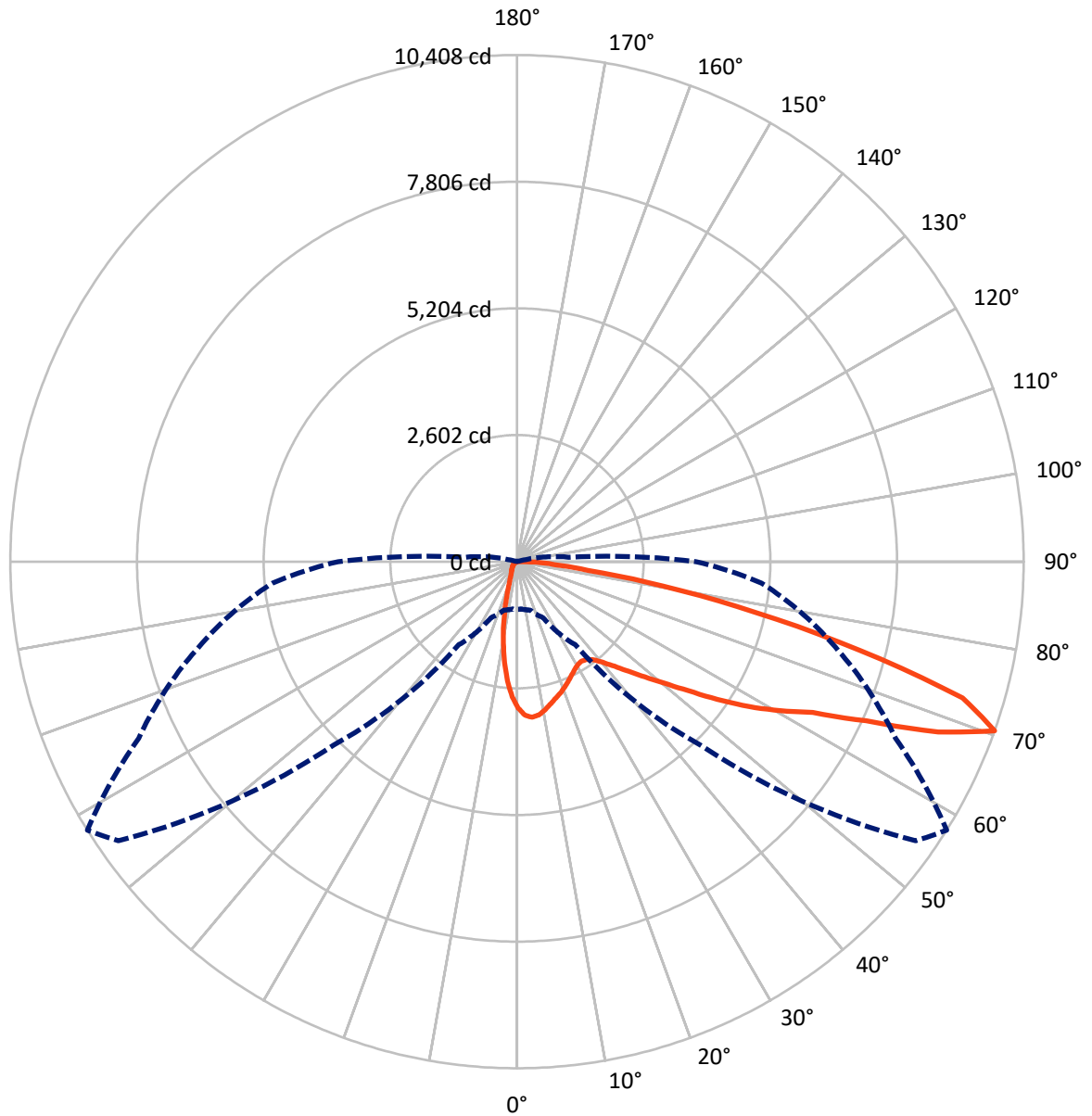
✕ Max cd
 - - - 1/2 Max cd



Based on 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 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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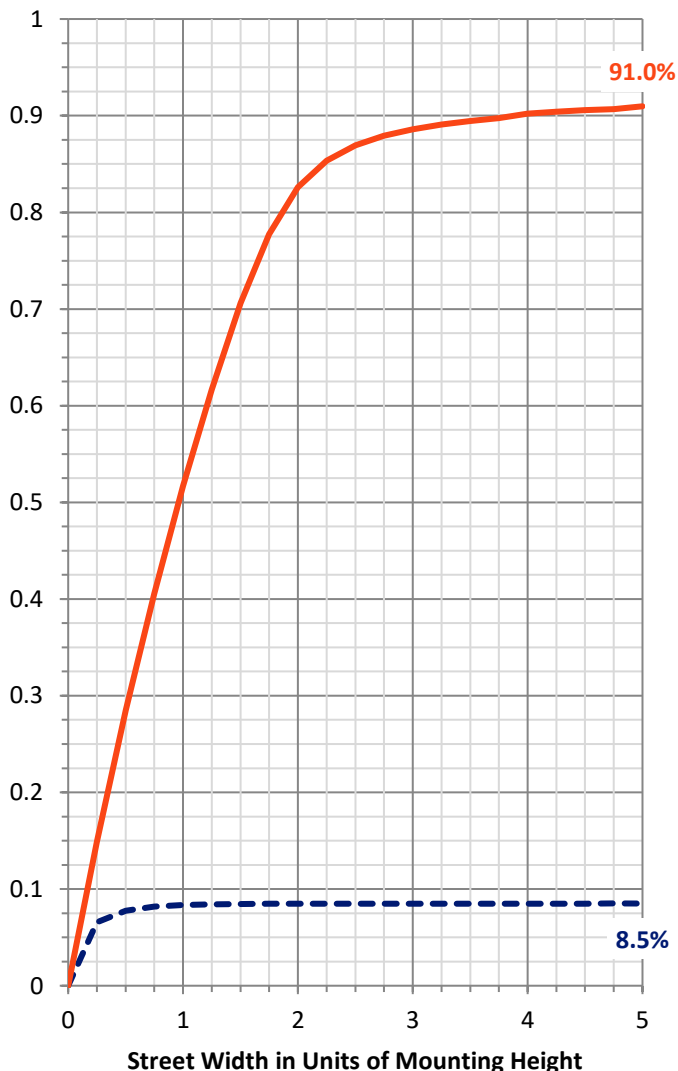
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	872.0	0.0	872.0
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	9317.0	0.0	9317.0
	% Fixture	91.4	0.0	91.4
Total	Lumens	10189.0	0.0	10189.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.1	2.4
10°-20°	516.6	5.1
20°-30°	679.1	6.7
30°-40°	899.4	8.8
40°-50°	1344.3	13.2
50°-60°	2153.5	21.1
60°-70°	2714.5	26.6
70°-80°	1464.2	14.4
80°-90°	171.4	1.7
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°	10189.0	100.0
0°-180°	10189.0	100.0

Coefficient of Utilization



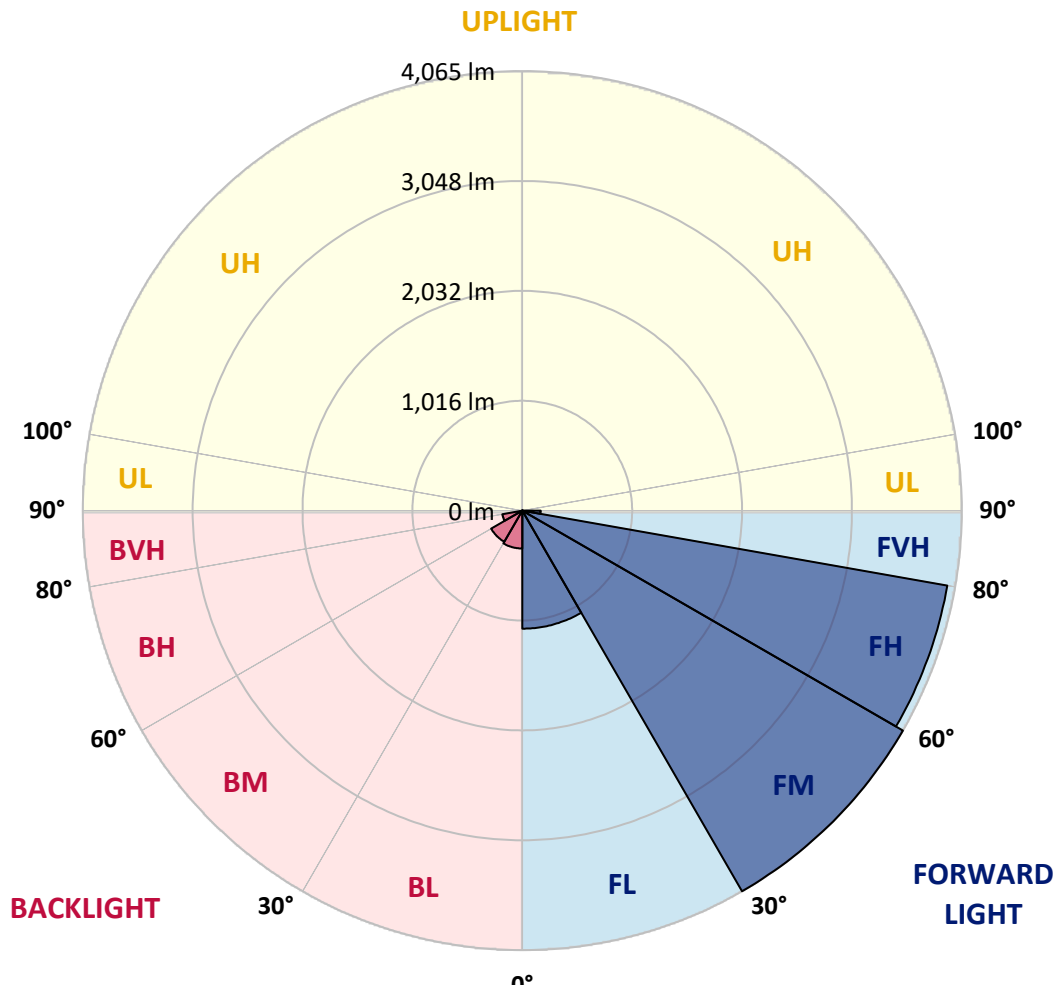
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1091.5	10.7			
FM (30°-60°)	4064.5	39.9			
FH (60°-80°)	3991.1	39.2			G2/5000
FVH (80°-90°)	169.9	1.7			G2/225
BL (0°-30°)	350.3	3.4	B1/500		
BM (30°-60°)	332.6	3.3	B1/1000		
BH (60°-80°)	187.5	1.8	B1/500		G1/500
BVH (80°-90°)	1.5	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3009.8	3009.8	3009.8	3009.8	3009.8	3009.8	3009.8	3009.8	3009.8	3009.8	3009.8
2.5°	3259.3	3251.3	3248.3	3243.2	3223.7	3204.7	3167.0	3156.4	3132.6	3076.3	3016.6
5°	3261.9	3261.4	3270.3	3268.2	3261.4	3252.5	3225.4	3211.5	3171.2	3090.7	2981.4
7.5°	3104.7	3112.7	3132.6	3148.7	3167.4	3191.5	3194.9	3181.4	3148.3	3061.5	2916.6
10°	2893.7	2906.4	2934.4	2966.1	3014.9	3063.2	3106.4	3104.7	3093.2	3007.7	2838.6
12.5°	2682.3	2697.1	2729.3	2776.3	2845.4	2924.2	3001.3	3011.9	3031.0	2959.4	2766.6
15°	2497.1	2509.8	2541.6	2599.2	2684.8	2790.7	2903.9	2923.4	2972.5	2921.7	2706.4
17.5°	2340.0	2348.0	2371.3	2435.3	2534.4	2662.8	2809.8	2847.9	2921.2	2892.0	2654.3
20°	2230.2	2231.5	2246.7	2291.7	2390.8	2534.4	2712.4	2767.0	2867.0	2866.6	2600.5
22.5°	2176.0	2171.8	2174.7	2200.6	2273.4	2412.0	2614.9	2679.7	2818.3	2845.0	2545.9
25°	2165.8	2162.4	2154.0	2157.3	2201.4	2304.8	2516.6	2591.6	2775.5	2831.8	2498.4
27.5°	2197.6	2201.0	2186.6	2171.3	2174.7	2235.3	2429.3	2516.2	2740.7	2831.8	2464.9
30°	2261.6	2263.3	2252.7	2232.8	2206.1	2215.8	2368.8	2455.6	2723.4	2851.3	2443.8
32.5°	2332.3	2341.6	2340.4	2324.3	2286.1	2246.7	2354.4	2433.6	2722.1	2894.5	2441.6
35°	2420.0	2430.6	2448.4	2445.0	2405.2	2340.4	2403.5	2465.8	2747.1	2965.7	2464.5
37.5°	2513.2	2529.3	2567.5	2585.7	2559.8	2486.5	2513.7	2558.1	2814.0	3081.0	2522.6
40°	2603.5	2621.7	2691.2	2762.8	2743.3	2667.9	2680.6	2716.2	2933.1	3246.6	2632.7
42.5°	2692.0	2719.1	2821.2	2939.0	2962.3	2902.2	2908.9	2937.3	3109.8	3474.6	2812.8
45°	2797.9	2828.4	2979.7	3125.0	3187.3	3161.0	3189.8	3208.5	3340.7	3775.8	3055.5
47.5°	2953.4	2988.6	3174.2	3339.8	3449.1	3466.1	3524.1	3536.4	3632.6	4126.6	3372.0
50°	3256.8	3266.5	3434.3	3584.7	3742.3	3844.0	3910.1	3919.4	3985.9	4510.0	3767.3
52.5°	3638.5	3644.9	3739.8	3840.6	4019.8	4227.4	4382.1	4395.2	4409.2	4883.7	4157.5
55°	4017.7	4016.9	4079.6	4138.9	4343.9	4645.6	4981.1	4989.2	4888.8	5238.3	4455.8
57.5°	4254.5	4277.4	4372.7	4449.0	4735.4	5122.2	5587.8	5617.5	5392.5	5501.0	4750.7
60°	4179.1	4190.1	4401.6	4683.7	5223.1	5799.7	6201.7	6209.4	5771.3	5763.2	5123.5
62.5°	3560.6	3566.5	3898.7	4480.4	5470.1	6678.4	6942.3	6818.2	6206.8	6127.2	5569.6
65°	2440.4	2478.9	2756.4	3475.4	5016.3	7229.6	8088.8	7883.3	6870.7	6651.7	5973.0
67.5°	1437.1	1429.1	1566.3	2095.9	3684.3	6863.5	9539.0	9334.8	7776.1	7002.9	5854.8
70°	981.7	976.1	1028.7	1268.9	2079.8	5324.3	9995.3	10407.6	8575.6	6766.5	5038.8
72.5°	700.8	703.7	781.3	985.9	1305.8	3102.1	8595.5	9571.2	8325.2	5898.8	3830.0
75°	475.8	483.8	594.8	808.8	1144.8	1578.2	6099.6	7275.8	6779.2	4287.2	2201.4
77.5°	255.9	264.8	395.7	651.6	1035.0	1096.5	3923.6	5007.4	4258.4	1927.3	638.1
80°	106.8	111.9	185.1	473.7	894.4	963.0	2308.6	3036.5	1814.6	380.0	142.4
82.5°	46.2	48.7	77.1	282.6	668.6	813.0	1222.3	1460.8	549.9	83.5	71.6
85°	8.9	9.3	31.8	149.6	426.6	458.8	792.3	776.6	247.0	36.0	52.1
87.5°	0.0	0.0	7.6	47.0	125.4	250.0	483.4	477.5	83.9	17.4	19.5
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°	3009.8	3009.8	3009.8	3009.8	3009.8	3009.8	3009.8	3009.8	3009.8	3009.8	3009.8
2.5°	2986.1	2956.8	2895.4	2819.6	2761.5	2697.5	2646.7	2582.3	2554.3	2555.6	2540.4
5°	2919.1	2859.0	2723.0	2551.4	2419.2	2282.8	2165.4	2048.5	1979.4	1957.0	1935.8
7.5°	2823.4	2728.0	2511.1	2246.7	2023.0	1804.4	1614.2	1446.8	1340.9	1289.2	1270.2
10°	2715.3	2581.4	2267.5	1919.2	1599.8	1304.1	1057.5	843.1	757.5	699.5	684.7
12.5°	2620.4	2439.1	2029.4	1583.3	1204.1	847.3	612.2	478.8	420.7	397.8	394.0
15°	2531.0	2306.1	1800.2	1279.1	833.8	521.5	389.4	344.0	330.5	326.7	326.7
17.5°	2446.7	2179.4	1576.1	979.5	551.6	365.6	322.4	312.2	308.0	307.6	308.0
20°	2358.6	2052.7	1355.8	717.7	385.1	309.7	297.8	292.3	291.1	291.1	291.1
22.5°	2274.3	1926.0	1141.4	512.6	308.9	282.6	276.7	272.8	271.6	271.2	270.3
25°	2193.4	1805.7	932.1	362.2	271.2	258.9	253.8	248.7	244.9	242.8	241.5
27.5°	2126.8	1698.5	737.2	290.6	244.9	234.3	227.9	220.3	211.0	206.8	205.1
30°	2073.9	1600.6	568.1	245.3	220.3	209.7	200.0	186.8	173.3	166.1	165.7
32.5°	2032.4	1504.5	431.3	216.9	198.3	185.1	171.2	154.6	139.0	130.9	130.5
35°	2012.0	1419.7	329.6	196.2	178.8	162.3	144.9	126.7	111.4	103.8	103.0
37.5°	2025.6	1348.1	257.2	178.8	162.3	143.2	122.9	103.8	90.2	83.5	83.0
40°	2075.2	1302.4	208.9	164.0	148.3	125.0	103.0	85.2	73.7	68.2	67.8
42.5°	2180.7	1285.4	178.4	151.7	134.7	108.0	85.6	70.3	59.7	55.9	55.1
45°	2356.9	1310.4	157.6	139.8	120.7	91.9	70.8	57.6	48.3	45.3	44.9
47.5°	2591.6	1376.1	142.8	128.4	108.0	77.5	58.9	46.6	39.4	36.4	36.0
50°	2894.1	1480.3	130.5	116.9	96.2	65.7	48.7	36.9	30.5	28.4	28.4
52.5°	3223.3	1604.5	119.5	106.3	84.3	54.7	39.4	28.4	24.1	21.6	21.6
55°	3495.3	1712.9	107.6	98.3	69.9	45.3	30.1	21.6	17.8	16.5	16.5
57.5°	3766.9	1828.6	94.1	84.3	55.9	36.9	22.9	16.1	13.1	12.3	12.3
60°	4119.0	1970.1	80.9	68.6	44.1	28.0	16.9	11.4	9.7	9.3	9.3
62.5°	4506.2	2053.1	69.1	55.1	34.3	20.8	12.3	7.6	7.2	7.2	6.8
65°	4743.0	1935.8	58.0	44.1	26.7	15.7	8.0	5.5	6.4	5.9	5.1
67.5°	4441.0	1515.5	47.5	34.3	20.8	11.9	5.1	3.8	6.8	5.5	4.2
70°	3677.1	1060.9	36.9	24.1	16.5	10.2	3.4	2.5	7.2	5.5	3.4
72.5°	2751.8	710.1	29.2	16.1	12.3	8.9	3.0	1.3	6.4	4.7	3.0
75°	1503.6	286.0	23.3	10.2	7.6	6.4	2.1	0.8	4.2	3.4	2.1
77.5°	395.7	75.4	16.9	6.8	4.2	2.5	1.3	0.4	2.1	1.7	0.8
80°	100.8	29.2	11.0	4.7	3.0	1.3	0.0	0.0	0.4	0.0	0.0
82.5°	53.8	12.3	6.8	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	40.7	8.0	3.8	2.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.7	2.5	1.3	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

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Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245982

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