

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: P386946

Luminaire Tested: **GWC-SA2C-830-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P386946
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-SA2C-830-U-SL3-HSS
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 1050mA 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: 10022 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

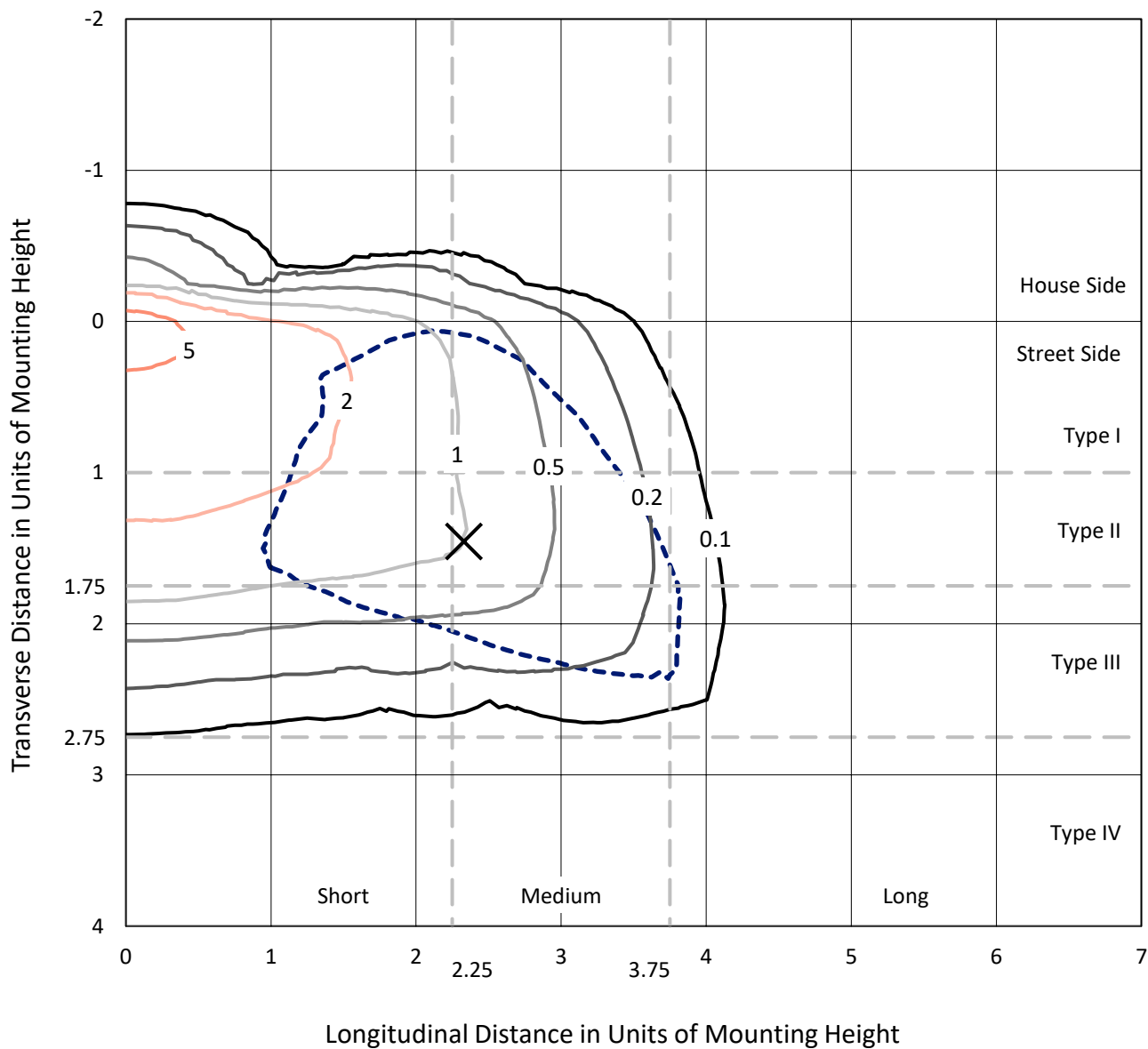
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

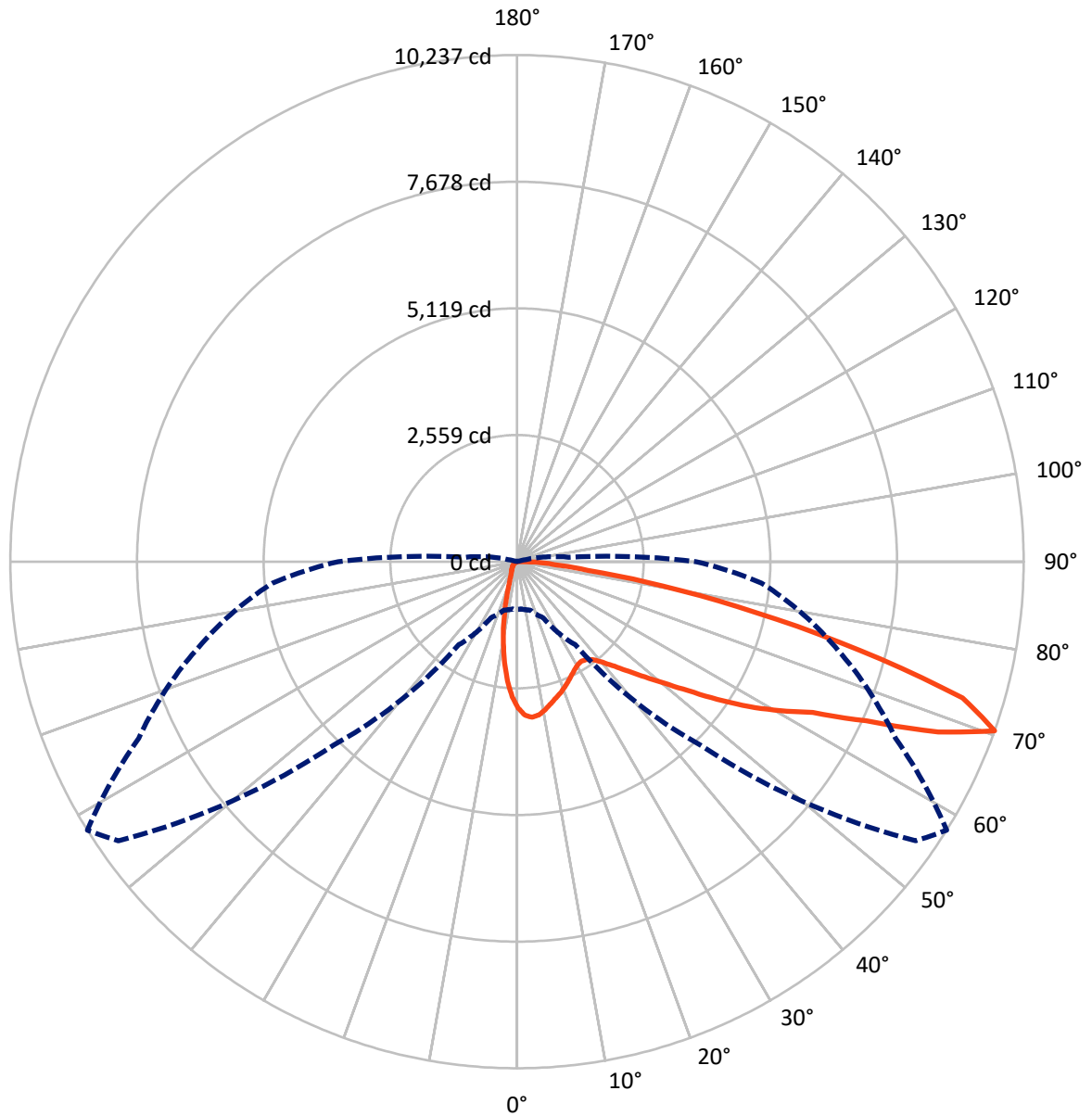
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.5 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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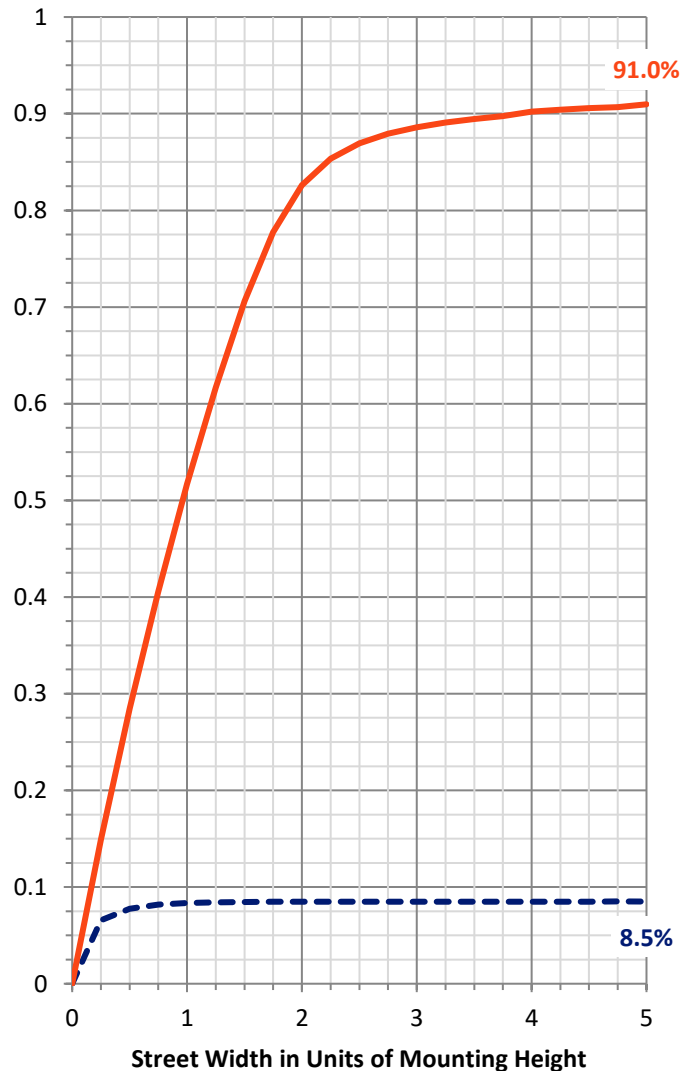
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 857.7 | 0.0 | 857.7 |
| | % Fixture | 8.6 | 0.0 | 8.6 |
| Street Side | Lumens | 9164.3 | 0.0 | 9164.3 |
| | % Fixture | 91.4 | 0.0 | 91.4 |
| Total | Lumens | 10022.0 | 0.0 | 10022.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 242.1 | 2.4 |
| 10°-20° | 508.1 | 5.1 |
| 20°-30° | 668.0 | 6.7 |
| 30°-40° | 884.6 | 8.8 |
| 40°-50° | 1322.3 | 13.2 |
| 50°-60° | 2118.2 | 21.1 |
| 60°-70° | 2670.0 | 26.6 |
| 70°-80° | 1440.2 | 14.4 |
| 80°-90° | 168.6 | 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° | 10022.0 | 100.0 |
| 0°-180° | 10022.0 | 100.0 |



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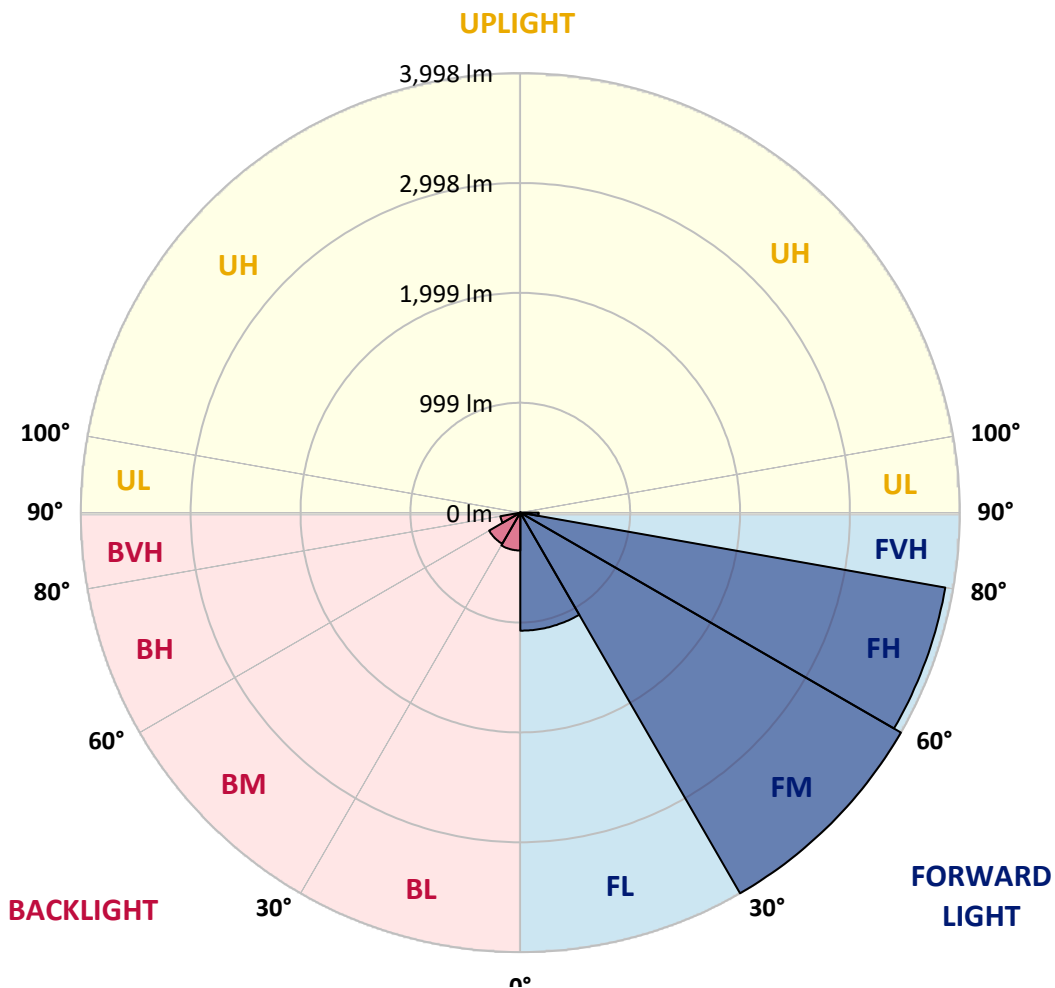
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1073.6 | 10.7 | | | |
| FM (30°-60°) | 3997.9 | 39.9 | | | |
| FH (60°-80°) | 3925.7 | 39.2 | | | G2/5000 |
| FVH (80°-90°) | 167.1 | 1.7 | | | G2/225 |
| BL (0°-30°) | 344.6 | 3.4 | B1/500 | | |
| BM (30°-60°) | 327.2 | 3.3 | B1/1000 | | |
| BH (60°-80°) | 184.5 | 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° | 2960.5 | 2960.5 | 2960.5 | 2960.5 | 2960.5 | 2960.5 | 2960.5 | 2960.5 | 2960.5 | 2960.5 | 2960.5 |
| 2.5° | 3205.9 | 3198.0 | 3195.1 | 3190.1 | 3170.9 | 3152.1 | 3115.1 | 3104.6 | 3081.3 | 3025.9 | 2967.1 |
| 5° | 3208.4 | 3208.0 | 3216.7 | 3214.7 | 3208.0 | 3199.2 | 3172.6 | 3158.8 | 3119.2 | 3040.0 | 2932.5 |
| 7.5° | 3053.8 | 3061.7 | 3081.3 | 3097.1 | 3115.5 | 3139.2 | 3142.6 | 3129.2 | 3096.7 | 3011.3 | 2868.8 |
| 10° | 2846.3 | 2858.8 | 2886.3 | 2917.5 | 2965.5 | 3013.0 | 3055.5 | 3053.8 | 3042.5 | 2958.4 | 2792.1 |
| 12.5° | 2638.3 | 2652.9 | 2684.6 | 2730.8 | 2798.8 | 2876.3 | 2952.1 | 2962.5 | 2981.3 | 2910.9 | 2721.2 |
| 15° | 2456.2 | 2468.7 | 2500.0 | 2556.6 | 2640.8 | 2745.0 | 2856.3 | 2875.4 | 2923.8 | 2873.8 | 2662.1 |
| 17.5° | 2301.6 | 2309.5 | 2332.4 | 2395.4 | 2492.9 | 2619.1 | 2763.8 | 2801.3 | 2873.4 | 2844.6 | 2610.8 |
| 20° | 2193.7 | 2194.9 | 2209.9 | 2254.1 | 2351.6 | 2492.9 | 2667.9 | 2721.7 | 2820.0 | 2819.6 | 2557.9 |
| 22.5° | 2140.3 | 2136.2 | 2139.1 | 2164.5 | 2236.2 | 2372.4 | 2572.1 | 2635.8 | 2772.1 | 2798.3 | 2504.1 |
| 25° | 2130.3 | 2127.0 | 2118.7 | 2122.0 | 2165.3 | 2267.0 | 2475.4 | 2549.1 | 2730.0 | 2785.4 | 2457.5 |
| 27.5° | 2161.6 | 2164.9 | 2150.7 | 2135.7 | 2139.1 | 2198.7 | 2389.5 | 2475.0 | 2695.8 | 2785.4 | 2424.5 |
| 30° | 2224.5 | 2226.2 | 2215.8 | 2196.2 | 2169.9 | 2179.5 | 2329.9 | 2415.4 | 2678.7 | 2804.6 | 2403.7 |
| 32.5° | 2294.1 | 2303.3 | 2302.0 | 2286.2 | 2248.7 | 2209.9 | 2315.8 | 2393.7 | 2677.5 | 2847.1 | 2401.6 |
| 35° | 2380.4 | 2390.8 | 2408.3 | 2405.0 | 2365.8 | 2302.0 | 2364.1 | 2425.4 | 2702.1 | 2917.1 | 2424.1 |
| 37.5° | 2472.0 | 2487.9 | 2525.4 | 2543.3 | 2517.9 | 2445.8 | 2472.5 | 2516.2 | 2767.9 | 3030.5 | 2481.2 |
| 40° | 2560.8 | 2578.7 | 2647.1 | 2717.5 | 2698.3 | 2624.2 | 2636.7 | 2671.7 | 2885.0 | 3193.4 | 2589.6 |
| 42.5° | 2647.9 | 2674.6 | 2775.0 | 2890.9 | 2913.8 | 2854.6 | 2861.3 | 2889.2 | 3058.8 | 3417.6 | 2766.7 |
| 45° | 2752.1 | 2782.1 | 2930.9 | 3073.8 | 3135.1 | 3109.2 | 3137.6 | 3155.9 | 3285.9 | 3713.9 | 3005.5 |
| 47.5° | 2905.0 | 2939.6 | 3122.1 | 3285.1 | 3392.6 | 3409.3 | 3466.4 | 3478.4 | 3573.0 | 4059.0 | 3316.8 |
| 50° | 3203.4 | 3213.0 | 3378.0 | 3526.0 | 3681.0 | 3781.0 | 3846.0 | 3855.2 | 3920.6 | 4436.1 | 3705.6 |
| 52.5° | 3578.9 | 3585.1 | 3678.5 | 3777.7 | 3953.9 | 4158.1 | 4310.2 | 4323.2 | 4336.9 | 4803.6 | 4089.4 |
| 55° | 3951.9 | 3951.0 | 4012.7 | 4071.0 | 4272.7 | 4569.4 | 4899.5 | 4907.4 | 4808.6 | 5152.5 | 4382.8 |
| 57.5° | 4184.8 | 4207.3 | 4301.1 | 4376.1 | 4657.8 | 5038.3 | 5496.3 | 5525.4 | 5304.1 | 5410.8 | 4672.8 |
| 60° | 4110.6 | 4121.5 | 4329.4 | 4607.0 | 5137.4 | 5704.6 | 6100.1 | 6107.6 | 5676.7 | 5668.8 | 5039.5 |
| 62.5° | 3502.2 | 3508.0 | 3834.8 | 4406.9 | 5380.4 | 6568.9 | 6828.5 | 6706.4 | 6105.1 | 6026.8 | 5478.3 |
| 65° | 2400.4 | 2438.3 | 2711.2 | 3418.4 | 4934.1 | 7111.1 | 7956.2 | 7754.1 | 6758.1 | 6542.7 | 5875.1 |
| 67.5° | 1413.5 | 1405.6 | 1540.7 | 2061.6 | 3623.9 | 6751.0 | 9382.7 | 9181.8 | 7648.7 | 6888.1 | 5758.8 |
| 70° | 965.6 | 960.1 | 1011.8 | 1248.1 | 2045.7 | 5237.0 | 9831.5 | 10237.0 | 8435.0 | 6655.6 | 4956.2 |
| 72.5° | 689.3 | 692.2 | 768.5 | 969.7 | 1284.4 | 3051.3 | 8454.6 | 9414.4 | 8188.7 | 5802.1 | 3767.2 |
| 75° | 468.0 | 475.9 | 585.1 | 795.5 | 1126.0 | 1552.3 | 5999.7 | 7156.5 | 6668.1 | 4216.9 | 2165.3 |
| 77.5° | 251.7 | 260.5 | 389.2 | 640.9 | 1018.1 | 1078.5 | 3859.3 | 4925.3 | 4188.6 | 1895.7 | 627.6 |
| 80° | 105.0 | 110.0 | 182.1 | 465.9 | 879.7 | 947.2 | 2270.8 | 2986.7 | 1784.9 | 373.8 | 140.0 |
| 82.5° | 45.4 | 47.9 | 75.8 | 278.0 | 657.6 | 799.7 | 1202.3 | 1436.9 | 540.9 | 82.1 | 70.4 |
| 85° | 8.8 | 9.2 | 31.3 | 147.1 | 419.6 | 451.3 | 779.3 | 763.9 | 243.0 | 35.4 | 51.3 |
| 87.5° | 0.0 | 0.0 | 7.5 | 46.3 | 123.4 | 245.9 | 475.5 | 469.7 | 82.5 | 17.1 | 19.2 |
| 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° | 2960.5 | 2960.5 | 2960.5 | 2960.5 | 2960.5 | 2960.5 | 2960.5 | 2960.5 | 2960.5 | 2960.5 | 2960.5 |
| 2.5° | 2937.1 | 2908.4 | 2847.9 | 2773.3 | 2716.2 | 2653.3 | 2603.3 | 2540.0 | 2512.5 | 2513.7 | 2498.7 |
| 5° | 2871.3 | 2812.1 | 2678.3 | 2509.5 | 2379.5 | 2245.3 | 2129.9 | 2014.9 | 1947.0 | 1924.9 | 1904.0 |
| 7.5° | 2777.1 | 2683.3 | 2470.0 | 2209.9 | 1989.9 | 1774.9 | 1587.7 | 1423.1 | 1319.0 | 1268.1 | 1249.4 |
| 10° | 2670.8 | 2539.1 | 2230.3 | 1887.8 | 1573.6 | 1282.7 | 1040.2 | 829.3 | 745.1 | 688.0 | 673.4 |
| 12.5° | 2577.5 | 2399.1 | 1996.1 | 1557.3 | 1184.3 | 833.5 | 602.2 | 470.9 | 413.8 | 391.3 | 387.6 |
| 15° | 2489.5 | 2268.3 | 1770.7 | 1258.1 | 820.1 | 513.0 | 383.0 | 338.4 | 325.0 | 321.3 | 321.3 |
| 17.5° | 2406.6 | 2143.7 | 1550.2 | 963.5 | 542.6 | 359.6 | 317.1 | 307.1 | 303.0 | 302.5 | 303.0 |
| 20° | 2319.9 | 2019.1 | 1333.5 | 705.9 | 378.8 | 304.6 | 293.0 | 287.5 | 286.3 | 286.3 | 286.3 |
| 22.5° | 2237.0 | 1894.5 | 1122.7 | 504.2 | 303.8 | 278.0 | 272.1 | 268.4 | 267.1 | 266.7 | 265.9 |
| 25° | 2157.4 | 1776.1 | 916.8 | 356.3 | 266.7 | 254.6 | 249.6 | 244.6 | 240.9 | 238.8 | 237.5 |
| 27.5° | 2092.0 | 1670.7 | 725.1 | 285.9 | 240.9 | 230.5 | 224.2 | 216.7 | 207.5 | 203.4 | 201.7 |
| 30° | 2039.9 | 1574.4 | 558.8 | 241.3 | 216.7 | 206.3 | 196.7 | 183.8 | 170.4 | 163.4 | 162.9 |
| 32.5° | 1999.1 | 1479.8 | 424.2 | 213.4 | 195.0 | 182.1 | 168.4 | 152.1 | 136.7 | 128.8 | 128.4 |
| 35° | 1979.1 | 1396.5 | 324.2 | 192.9 | 175.9 | 159.6 | 142.5 | 124.6 | 109.6 | 102.1 | 101.3 |
| 37.5° | 1992.4 | 1326.0 | 253.0 | 175.9 | 159.6 | 140.9 | 120.9 | 102.1 | 88.8 | 82.1 | 81.7 |
| 40° | 2041.1 | 1281.0 | 205.4 | 161.3 | 145.9 | 122.9 | 101.3 | 83.8 | 72.5 | 67.1 | 66.7 |
| 42.5° | 2144.9 | 1264.4 | 175.4 | 149.2 | 132.5 | 106.3 | 84.2 | 69.2 | 58.8 | 55.0 | 54.2 |
| 45° | 2318.3 | 1288.9 | 155.0 | 137.5 | 118.8 | 90.4 | 69.6 | 56.7 | 47.5 | 44.6 | 44.2 |
| 47.5° | 2549.1 | 1353.5 | 140.4 | 126.3 | 106.3 | 76.3 | 57.9 | 45.8 | 38.8 | 35.8 | 35.4 |
| 50° | 2846.7 | 1456.1 | 128.4 | 115.0 | 94.6 | 64.6 | 47.9 | 36.3 | 30.0 | 27.9 | 27.9 |
| 52.5° | 3170.5 | 1578.2 | 117.5 | 104.6 | 82.9 | 53.8 | 38.8 | 27.9 | 23.8 | 21.3 | 21.3 |
| 55° | 3438.0 | 1684.8 | 105.8 | 96.7 | 68.8 | 44.6 | 29.6 | 21.3 | 17.5 | 16.3 | 16.3 |
| 57.5° | 3705.1 | 1798.6 | 92.5 | 82.9 | 55.0 | 36.3 | 22.5 | 15.8 | 12.9 | 12.1 | 12.1 |
| 60° | 4051.5 | 1937.8 | 79.6 | 67.5 | 43.3 | 27.5 | 16.7 | 11.3 | 9.6 | 9.2 | 9.2 |
| 62.5° | 4432.3 | 2019.5 | 67.9 | 54.2 | 33.8 | 20.4 | 12.1 | 7.5 | 7.1 | 7.1 | 6.7 |
| 65° | 4665.3 | 1904.0 | 57.1 | 43.3 | 26.3 | 15.4 | 7.9 | 5.4 | 6.3 | 5.8 | 5.0 |
| 67.5° | 4368.2 | 1490.6 | 46.7 | 33.8 | 20.4 | 11.7 | 5.0 | 3.8 | 6.7 | 5.4 | 4.2 |
| 70° | 3616.8 | 1043.5 | 36.3 | 23.8 | 16.3 | 10.0 | 3.3 | 2.5 | 7.1 | 5.4 | 3.3 |
| 72.5° | 2706.7 | 698.4 | 28.8 | 15.8 | 12.1 | 8.8 | 2.9 | 1.3 | 6.3 | 4.6 | 2.9 |
| 75° | 1479.0 | 281.3 | 22.9 | 10.0 | 7.5 | 6.3 | 2.1 | 0.8 | 4.2 | 3.3 | 2.1 |
| 77.5° | 389.2 | 74.2 | 16.7 | 6.7 | 4.2 | 2.5 | 1.3 | 0.4 | 2.1 | 1.7 | 0.8 |
| 80° | 99.2 | 28.8 | 10.8 | 4.6 | 2.9 | 1.3 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 |
| 82.5° | 52.9 | 12.1 | 6.7 | 3.3 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 40.0 | 7.9 | 3.8 | 2.1 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 15.4 | 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 |

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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