

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: P387140

Luminaire Tested: **GWC-SA2D-827-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P387140
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-SA2D-827-U-SL2-HSS
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9859 lumens
Efficiency: N/A
Efficacy: 77.0 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): 128
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

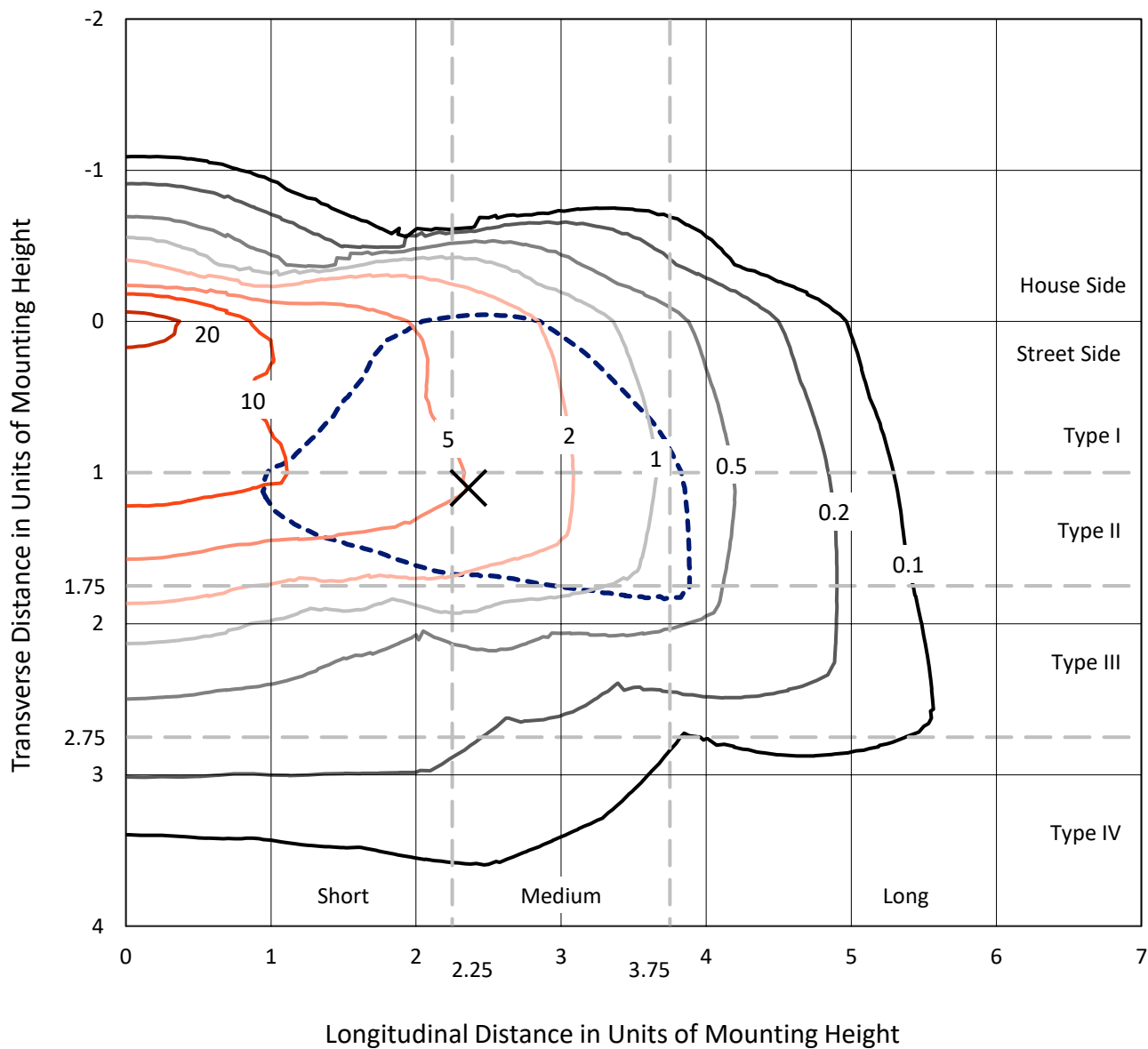


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Iso-Footcandle Lines of Horizontal Illumination

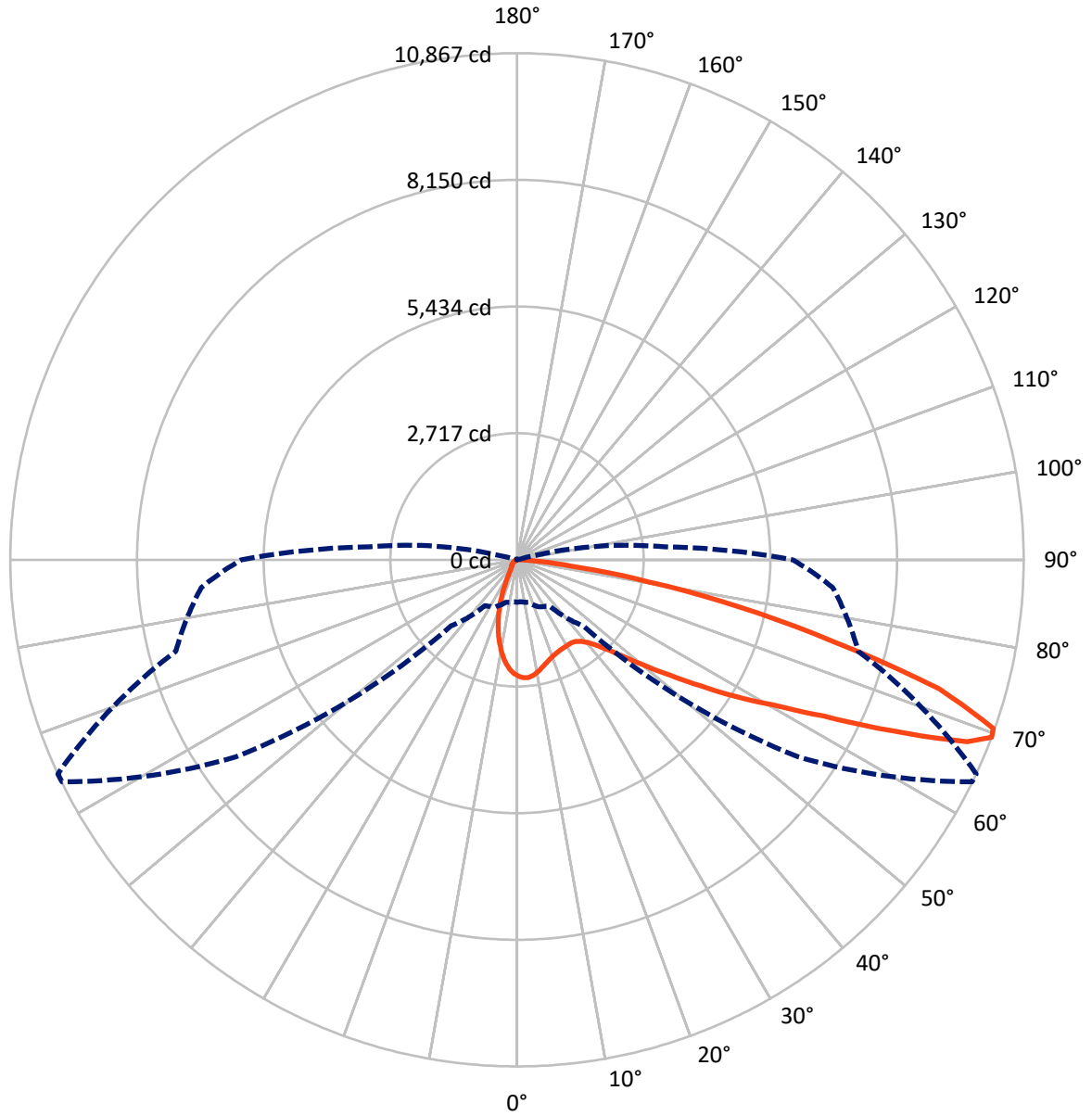
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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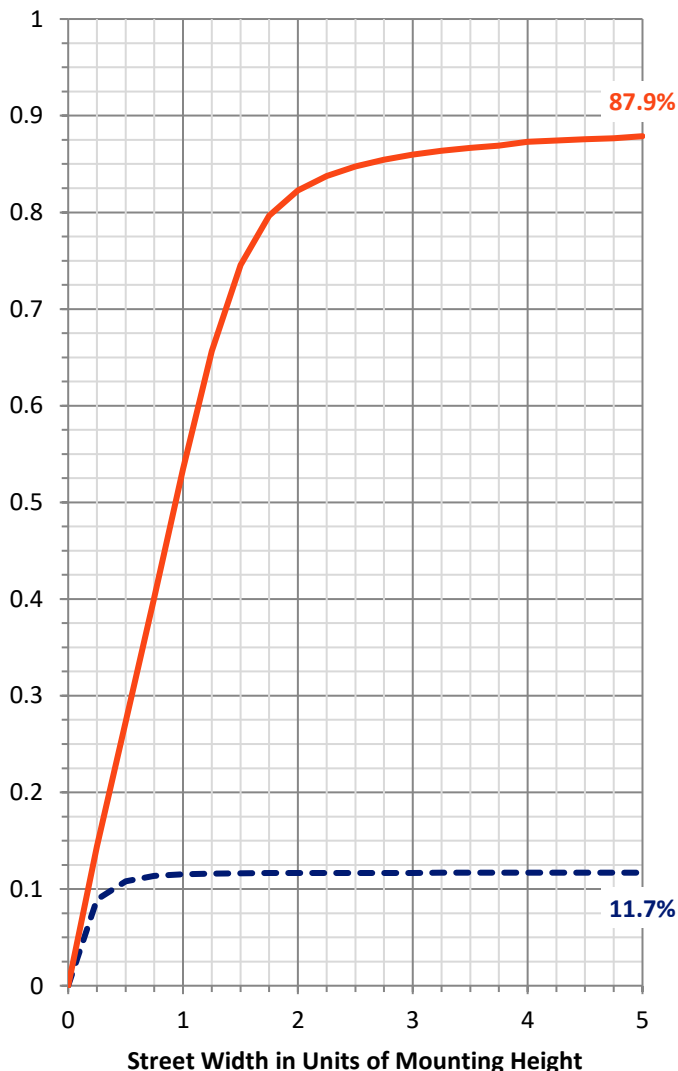
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1162.1 | 0.0 | 1162.1 |
| | % Fixture | 11.8 | 0.0 | 11.8 |
| Street Side | Lumens | 8696.9 | 0.0 | 8696.9 |
| | % Fixture | 88.2 | 0.0 | 88.2 |
| Total | Lumens | 9859.0 | 0.0 | 9859.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 208.3 | 2.1 |
| 10°-20° | 456.0 | 4.6 |
| 20°-30° | 631.6 | 6.4 |
| 30°-40° | 880.7 | 8.9 |
| 40°-50° | 1368.9 | 13.9 |
| 50°-60° | 2197.6 | 22.3 |
| 60°-70° | 2485.9 | 25.2 |
| 70°-80° | 1460.0 | 14.8 |
| 80°-90° | 169.8 | 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° | 9859.0 | 100.0 |
| 0°-180° | 9859.0 | 100.0 |

Coefficient of Utilization



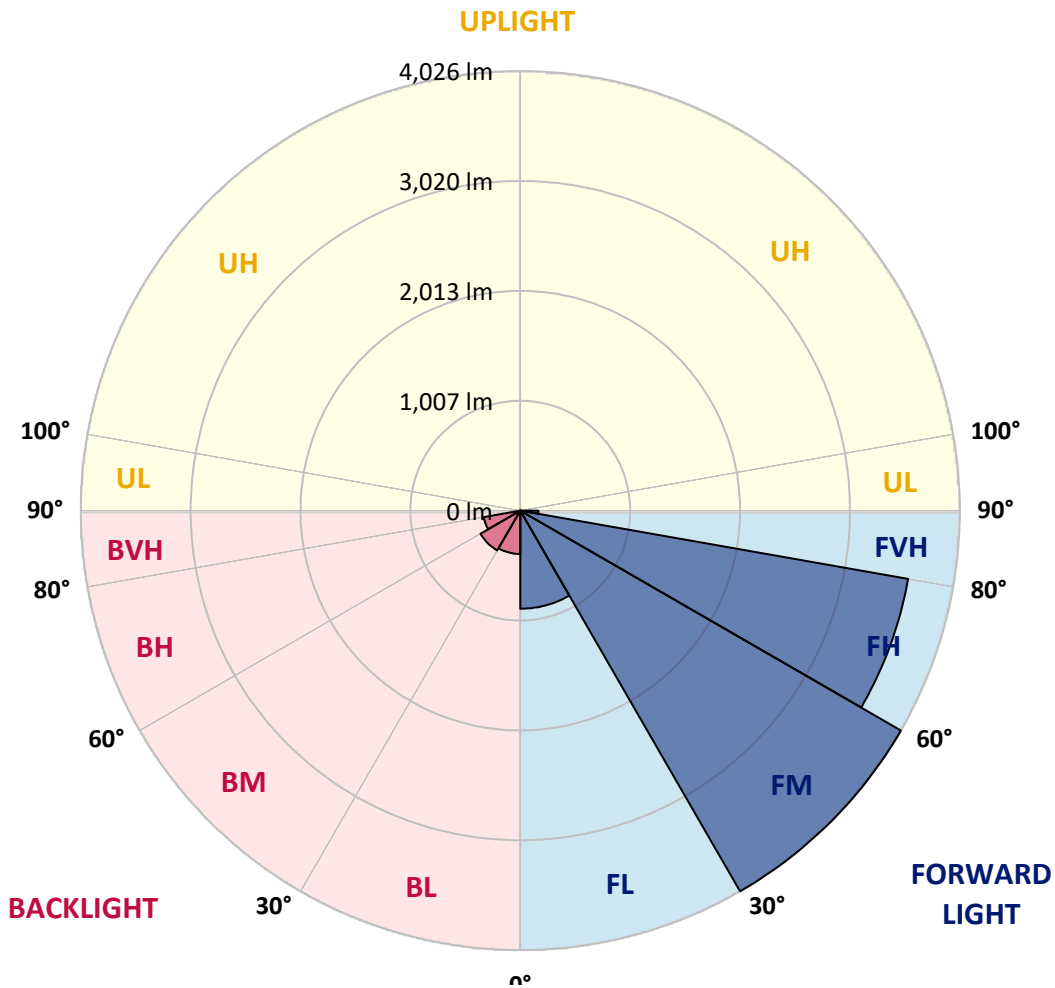
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 898.4 | 9.1 | | | |
| FM (30°-60°) | 4026.1 | 40.8 | | | |
| FH (60°-80°) | 3606.3 | 36.6 | | | G2/5000 |
| FVH (80°-90°) | 166.0 | 1.7 | | | G2/225 |
| BL (0°-30°) | 397.6 | 4.0 | B1/500 | | |
| BM (30°-60°) | 421.1 | 4.3 | B1/1000 | | |
| BH (60°-80°) | 339.6 | 3.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.8 | 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° | 64° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|
| 0° | 2491.4 | 2491.4 | 2491.4 | 2491.4 | 2491.4 | 2491.4 | 2491.4 | 2491.4 | 2491.4 | 2491.4 | 2491.4 |
| 2.5° | 2513.5 | 2507.2 | 2512.2 | 2523.1 | 2528.5 | 2528.5 | 2532.7 | 2527.7 | 2529.3 | 2517.3 | 2499.7 |
| 5° | 2356.2 | 2346.6 | 2360.4 | 2390.8 | 2428.4 | 2460.5 | 2508.1 | 2533.1 | 2535.6 | 2536.0 | 2515.6 |
| 7.5° | 2186.8 | 2178.1 | 2198.5 | 2234.4 | 2282.8 | 2342.5 | 2425.5 | 2498.1 | 2502.2 | 2541.4 | 2526.4 |
| 10° | 2049.2 | 2042.9 | 2066.7 | 2105.1 | 2161.8 | 2228.6 | 2330.4 | 2431.3 | 2443.4 | 2530.2 | 2524.8 |
| 12.5° | 1939.9 | 1934.9 | 1957.4 | 2001.6 | 2059.6 | 2133.4 | 2239.8 | 2357.1 | 2373.3 | 2504.7 | 2516.4 |
| 15° | 1860.2 | 1859.4 | 1878.1 | 1920.7 | 1984.9 | 2053.8 | 2162.7 | 2288.2 | 2307.0 | 2477.2 | 2515.2 |
| 17.5° | 1818.5 | 1819.7 | 1833.5 | 1869.8 | 1924.9 | 1993.3 | 2097.6 | 2230.2 | 2250.7 | 2452.6 | 2521.4 |
| 20° | 1814.3 | 1815.6 | 1823.1 | 1843.5 | 1888.1 | 1948.6 | 2044.6 | 2181.4 | 2202.7 | 2434.2 | 2531.4 |
| 22.5° | 1851.0 | 1850.2 | 1852.3 | 1850.2 | 1875.2 | 1921.1 | 2009.5 | 2143.9 | 2168.5 | 2422.1 | 2539.4 |
| 25° | 1921.5 | 1920.3 | 1919.4 | 1904.0 | 1887.3 | 1911.9 | 1994.9 | 2122.6 | 2146.0 | 2413.4 | 2544.0 |
| 27.5° | 2019.6 | 2018.7 | 2017.5 | 1992.0 | 1942.0 | 1926.5 | 1996.6 | 2114.7 | 2134.3 | 2406.3 | 2543.1 |
| 30° | 2148.5 | 2154.3 | 2152.6 | 2117.2 | 2039.2 | 1971.2 | 2014.1 | 2110.5 | 2127.6 | 2392.5 | 2534.4 |
| 32.5° | 2299.9 | 2311.6 | 2320.8 | 2282.8 | 2185.2 | 2059.6 | 2054.6 | 2115.1 | 2127.6 | 2382.1 | 2518.5 |
| 35° | 2457.2 | 2472.2 | 2506.0 | 2492.6 | 2364.1 | 2192.7 | 2124.3 | 2142.6 | 2153.1 | 2387.9 | 2511.0 |
| 37.5° | 2612.0 | 2629.9 | 2703.3 | 2742.1 | 2598.6 | 2368.7 | 2232.7 | 2210.6 | 2216.0 | 2423.4 | 2519.3 |
| 40° | 2791.8 | 2818.9 | 2930.3 | 2992.8 | 2878.5 | 2604.4 | 2395.0 | 2327.4 | 2329.5 | 2501.4 | 2558.1 |
| 42.5° | 3027.9 | 3055.8 | 3176.4 | 3274.4 | 3193.9 | 2902.3 | 2615.3 | 2506.0 | 2503.9 | 2647.4 | 2649.5 |
| 45° | 3315.7 | 3344.9 | 3469.7 | 3578.6 | 3542.3 | 3255.2 | 2897.3 | 2766.7 | 2764.2 | 2877.7 | 2822.6 |
| 47.5° | 3642.0 | 3670.7 | 3782.1 | 3894.4 | 3933.6 | 3667.4 | 3256.5 | 3122.6 | 3116.7 | 3197.7 | 3090.0 |
| 50° | 3921.9 | 3940.7 | 4043.3 | 4194.3 | 4371.2 | 4173.9 | 3703.3 | 3574.4 | 3568.1 | 3622.8 | 3482.6 |
| 52.5° | 4023.7 | 4034.5 | 4138.8 | 4350.3 | 4791.7 | 4859.7 | 4290.3 | 4124.2 | 4119.6 | 4143.4 | 4005.3 |
| 55° | 3817.6 | 3837.2 | 3965.3 | 4279.0 | 5019.5 | 5634.8 | 5031.2 | 4805.1 | 4770.4 | 4719.1 | 4551.8 |
| 57.5° | 3256.1 | 3287.4 | 3425.0 | 3842.2 | 4913.1 | 6249.7 | 6120.0 | 5575.2 | 5524.3 | 5210.6 | 4996.1 |
| 60° | 2439.7 | 2478.0 | 2592.3 | 3042.5 | 4345.3 | 6468.8 | 7309.8 | 6433.3 | 6318.6 | 5601.9 | 5404.5 |
| 62.5° | 1674.1 | 1693.3 | 1770.9 | 2064.2 | 3200.2 | 6110.0 | 8305.2 | 7582.6 | 7373.2 | 6027.4 | 5846.3 |
| 65° | 1278.7 | 1285.3 | 1317.0 | 1418.0 | 1905.7 | 4963.2 | 8701.1 | 9099.1 | 8845.8 | 6536.3 | 6304.8 |
| 67.5° | 1030.4 | 1025.0 | 1068.8 | 1213.2 | 1276.1 | 3027.9 | 8239.3 | 10533.7 | 10415.3 | 7216.8 | 6766.2 |
| 69° | 908.6 | 901.1 | 945.7 | 1113.4 | 1198.6 | 2001.6 | 7365.7 | 10859.6 | 10867.1 | 7576.0 | 6797.9 |
| 70° | 817.7 | 822.7 | 866.9 | 1054.2 | 1172.3 | 1571.1 | 6531.3 | 10776.5 | 10835.8 | 7710.3 | 6607.7 |
| 72.5° | 546.1 | 559.4 | 648.3 | 875.2 | 1127.2 | 1189.0 | 3943.6 | 9247.6 | 9475.4 | 7407.8 | 5669.0 |
| 75° | 307.9 | 317.9 | 423.4 | 660.0 | 1062.1 | 1132.2 | 2083.0 | 6812.9 | 7033.2 | 6194.7 | 4371.6 |
| 77.5° | 151.0 | 156.4 | 239.5 | 425.9 | 888.2 | 1078.8 | 1181.4 | 4627.8 | 4879.3 | 4043.3 | 2472.6 |
| 80° | 63.8 | 66.7 | 119.7 | 262.8 | 634.9 | 1029.6 | 877.3 | 2848.1 | 2879.4 | 1584.0 | 658.7 |
| 82.5° | 24.6 | 25.4 | 50.5 | 164.0 | 403.4 | 802.7 | 733.8 | 1350.4 | 1317.9 | 298.3 | 150.2 |
| 85° | 2.9 | 3.3 | 18.4 | 98.5 | 224.4 | 413.0 | 596.1 | 582.0 | 538.6 | 59.2 | 77.2 |
| 87.5° | 0.0 | 0.0 | 1.3 | 30.0 | 66.7 | 193.6 | 310.0 | 241.5 | 217.8 | 19.2 | 40.0 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2491.4 | 2491.4 | 2491.4 | 2491.4 | 2491.4 | 2491.4 | 2491.4 | 2491.4 | 2491.4 | 2491.4 | 2491.4 |
| 2.5° | 2485.1 | 2481.0 | 2458.4 | 2425.9 | 2395.0 | 2356.6 | 2319.9 | 2297.8 | 2280.3 | 2268.6 | 2282.4 |
| 5° | 2491.8 | 2473.4 | 2405.0 | 2317.4 | 2231.5 | 2134.7 | 2044.6 | 1968.2 | 1938.2 | 1904.8 | 1919.9 |
| 7.5° | 2489.7 | 2455.1 | 2332.0 | 2176.0 | 2018.3 | 1855.2 | 1700.8 | 1581.9 | 1520.2 | 1459.7 | 1475.1 |
| 10° | 2479.3 | 2420.9 | 2234.4 | 2003.3 | 1767.2 | 1532.7 | 1313.7 | 1147.2 | 1054.2 | 969.9 | 982.0 |
| 12.5° | 2456.3 | 2375.0 | 2119.3 | 1805.5 | 1489.7 | 1180.6 | 924.0 | 710.9 | 596.6 | 546.1 | 552.3 |
| 15° | 2442.6 | 2330.4 | 1997.4 | 1605.3 | 1193.5 | 822.3 | 564.9 | 420.1 | 368.0 | 351.3 | 353.3 |
| 17.5° | 2435.9 | 2287.4 | 1871.5 | 1376.3 | 890.7 | 523.6 | 365.0 | 322.1 | 310.8 | 307.9 | 308.7 |
| 20° | 2429.2 | 2244.0 | 1741.7 | 1149.7 | 613.7 | 352.1 | 300.0 | 287.4 | 283.3 | 279.5 | 280.3 |
| 22.5° | 2418.0 | 2202.3 | 1602.4 | 920.3 | 413.8 | 285.8 | 270.3 | 258.2 | 249.5 | 244.9 | 245.7 |
| 25° | 2404.2 | 2158.5 | 1460.1 | 685.4 | 302.0 | 254.9 | 240.3 | 223.2 | 212.8 | 204.4 | 204.8 |
| 27.5° | 2382.1 | 2104.7 | 1313.3 | 498.9 | 253.6 | 228.2 | 208.6 | 189.8 | 172.3 | 162.7 | 162.7 |
| 30° | 2351.2 | 2043.8 | 1150.2 | 357.1 | 227.4 | 201.9 | 178.1 | 154.8 | 136.0 | 127.2 | 126.4 |
| 32.5° | 2317.0 | 1980.3 | 985.4 | 270.7 | 206.5 | 177.3 | 150.2 | 125.6 | 108.9 | 101.8 | 101.4 |
| 35° | 2287.8 | 1911.9 | 821.0 | 226.9 | 185.6 | 153.5 | 123.9 | 103.0 | 89.7 | 83.9 | 83.4 |
| 37.5° | 2269.0 | 1843.5 | 660.8 | 202.7 | 166.9 | 131.4 | 103.9 | 85.1 | 75.5 | 70.9 | 70.5 |
| 40° | 2266.1 | 1792.6 | 514.4 | 184.4 | 149.3 | 111.8 | 86.8 | 72.2 | 63.4 | 58.4 | 58.0 |
| 42.5° | 2304.1 | 1763.4 | 394.7 | 169.0 | 131.4 | 94.7 | 73.8 | 61.7 | 52.6 | 47.6 | 47.1 |
| 45° | 2403.8 | 1772.6 | 303.7 | 155.2 | 113.5 | 80.1 | 62.6 | 51.3 | 43.0 | 39.2 | 38.4 |
| 47.5° | 2585.7 | 1836.0 | 241.5 | 141.4 | 96.4 | 68.0 | 53.4 | 42.6 | 35.5 | 31.7 | 31.3 |
| 50° | 2909.4 | 1984.9 | 201.9 | 126.4 | 80.5 | 58.0 | 44.2 | 34.6 | 28.8 | 25.4 | 25.0 |
| 52.5° | 3339.1 | 2250.3 | 180.2 | 111.8 | 66.7 | 49.2 | 36.3 | 27.5 | 22.5 | 20.0 | 19.6 |
| 55° | 3813.0 | 2571.5 | 166.0 | 96.0 | 54.7 | 40.9 | 28.8 | 21.7 | 17.5 | 15.4 | 14.6 |
| 57.5° | 4275.7 | 2849.7 | 152.7 | 80.5 | 45.5 | 33.4 | 22.9 | 17.1 | 13.8 | 11.7 | 11.3 |
| 60° | 4700.8 | 3105.5 | 137.3 | 64.7 | 37.1 | 26.3 | 17.9 | 13.3 | 10.8 | 8.8 | 8.8 |
| 62.5° | 5155.9 | 3303.2 | 116.0 | 50.5 | 30.5 | 20.0 | 14.6 | 12.1 | 8.8 | 7.5 | 7.1 |
| 65° | 5638.2 | 3450.1 | 90.9 | 39.2 | 23.8 | 15.0 | 12.1 | 12.5 | 7.1 | 5.4 | 5.0 |
| 67.5° | 5994.4 | 3420.9 | 67.2 | 30.9 | 18.4 | 11.7 | 11.7 | 13.3 | 6.3 | 4.2 | 3.8 |
| 69° | 5916.0 | 3183.5 | 56.3 | 26.7 | 15.9 | 10.0 | 10.8 | 13.3 | 5.8 | 3.8 | 3.3 |
| 70° | 5688.6 | 2920.7 | 49.6 | 23.8 | 14.2 | 9.2 | 10.4 | 12.9 | 5.4 | 3.8 | 3.3 |
| 72.5° | 4737.5 | 2199.8 | 38.8 | 17.9 | 11.3 | 7.5 | 8.8 | 11.3 | 5.4 | 3.8 | 2.9 |
| 75° | 3563.5 | 1408.0 | 29.6 | 12.9 | 8.3 | 5.8 | 6.7 | 8.3 | 5.4 | 3.3 | 2.9 |
| 77.5° | 1939.0 | 507.7 | 21.3 | 8.8 | 5.8 | 4.6 | 4.6 | 6.3 | 5.0 | 2.5 | 1.7 |
| 80° | 498.5 | 127.7 | 13.3 | 5.8 | 4.6 | 3.3 | 2.9 | 4.2 | 2.9 | 0.4 | 0.0 |
| 82.5° | 123.1 | 28.8 | 7.1 | 4.2 | 3.3 | 1.3 | 1.3 | 2.1 | 1.3 | 0.0 | 0.0 |
| 85° | 67.6 | 14.2 | 4.6 | 2.9 | 1.7 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 |
| 87.5° | 34.6 | 4.2 | 1.3 | 0.8 | 0.4 | 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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