

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: P387066

Luminaire Tested: **GWC-SA2D-735-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P387066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-SA2D-735-U-T2-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10820.9 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

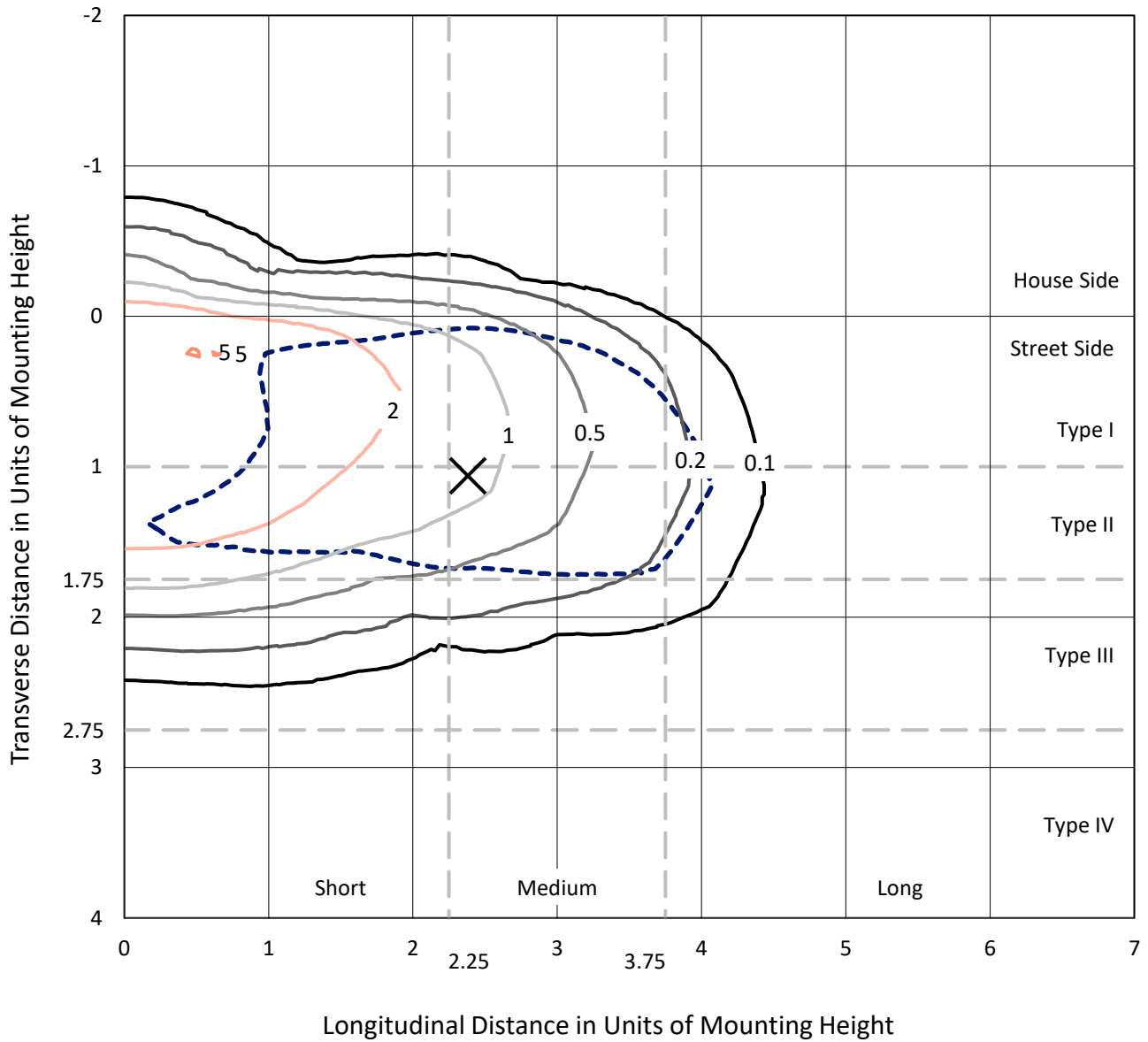
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

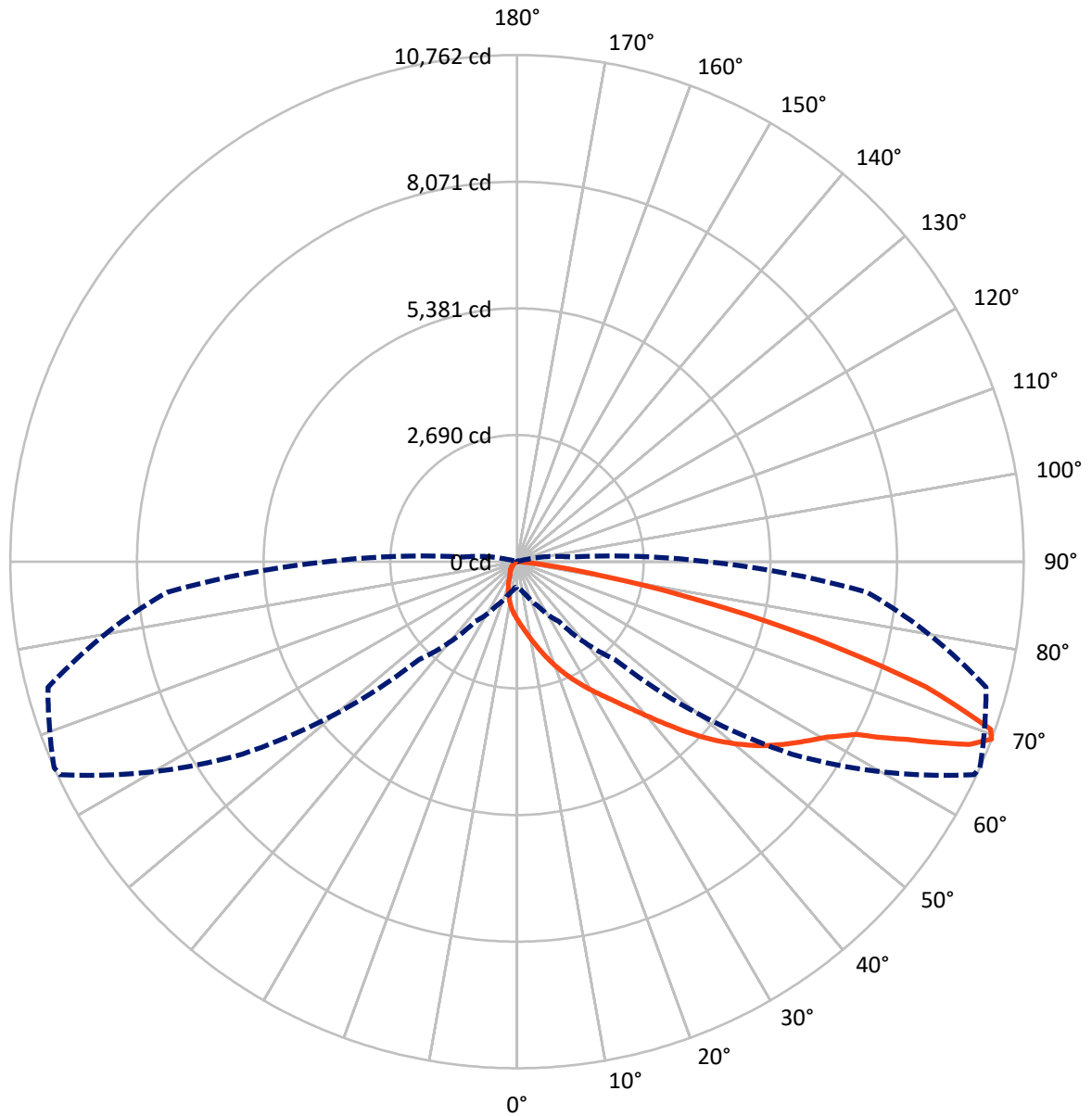
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 649.1 | 0.0 | 649.1 |
| | % Fixture | 6.0 | 0.0 | 6.0 |
| Street Side | Lumens | 10171.8 | 0.0 | 10171.8 |
| | % Fixture | 94.0 | 0.0 | 94.0 |
| Total | Lumens | 10820.9 | 0.0 | 10820.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 119.0 | 1.1 |
| 10°-20° | 354.3 | 3.3 |
| 20°-30° | 616.9 | 5.7 |
| 30°-40° | 1082.4 | 10.0 |
| 40°-50° | 1811.7 | 16.7 |
| 50°-60° | 2663.1 | 24.6 |
| 60°-70° | 2734.3 | 25.3 |
| 70°-80° | 1349.9 | 12.5 |
| 80°-90° | 89.2 | 0.8 |
| 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° | 10820.9 | 100.0 |
| 0°-180° | 10820.9 | 100.0 |

Coefficient of Utilization



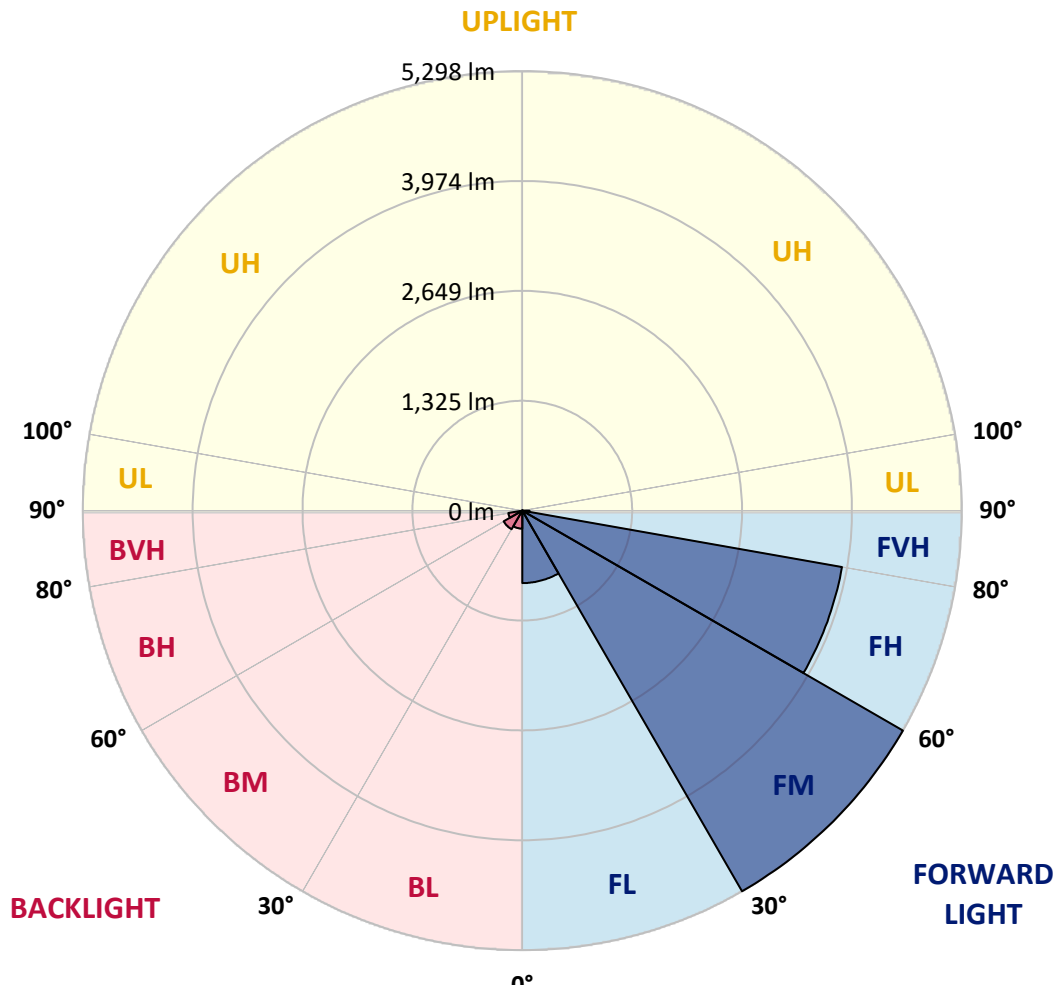
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CATALOG NUMBER: GWC-SA2D-735-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 873.1 | 8.1 | | | |
| FM (30°-60°) | 5298.4 | 49.0 | | | |
| FH (60°-80°) | 3913.1 | 36.2 | | | G2/5000 |
| FVH (80°-90°) | 87.1 | 0.8 | | | G1/100 |
| BL (0°-30°) | 217.1 | 2.0 | B1/500 | | |
| BM (30°-60°) | 258.8 | 2.4 | B1/1000 | | |
| BH (60°-80°) | 171.1 | 1.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.2 | 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 II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|
| 0° | 1231.5 | 1231.5 | 1231.5 | 1231.5 | 1231.5 | 1231.5 | 1231.5 | 1231.5 | 1231.5 | 1231.5 | 1231.5 |
| 2.5° | 1449.4 | 1443.2 | 1440.7 | 1429.3 | 1409.7 | 1394.9 | 1366.1 | 1332.7 | 1326.5 | 1294.1 | 1254.6 |
| 5° | 1637.5 | 1632.4 | 1628.7 | 1612.8 | 1592.7 | 1555.3 | 1502.8 | 1440.7 | 1428.8 | 1367.1 | 1288.0 |
| 7.5° | 1768.5 | 1777.8 | 1777.8 | 1767.5 | 1742.3 | 1714.0 | 1649.9 | 1565.0 | 1550.1 | 1455.5 | 1332.7 |
| 10° | 1845.2 | 1856.4 | 1865.2 | 1873.9 | 1870.3 | 1859.0 | 1798.4 | 1702.7 | 1684.8 | 1559.4 | 1384.6 |
| 12.5° | 1852.3 | 1863.7 | 1888.3 | 1924.8 | 1960.2 | 1986.0 | 1947.9 | 1855.4 | 1834.8 | 1679.6 | 1446.3 |
| 15° | 1812.2 | 1824.0 | 1862.1 | 1933.0 | 2018.9 | 2093.9 | 2106.2 | 2024.5 | 2003.4 | 1823.0 | 1523.4 |
| 17.5° | 1742.3 | 1750.0 | 1804.5 | 1902.6 | 2037.4 | 2175.1 | 2249.6 | 2205.9 | 2186.3 | 1987.0 | 1609.2 |
| 20° | 1690.4 | 1696.1 | 1743.9 | 1849.2 | 2026.0 | 2226.0 | 2385.3 | 2398.6 | 2378.1 | 2162.8 | 1702.3 |
| 22.5° | 1779.3 | 1789.6 | 1791.1 | 1841.0 | 1995.2 | 2251.2 | 2504.5 | 2588.3 | 2572.9 | 2349.3 | 1793.7 |
| 25° | 2022.4 | 2034.3 | 1995.2 | 1964.4 | 2021.4 | 2262.4 | 2606.8 | 2782.6 | 2770.3 | 2550.3 | 1885.7 |
| 27.5° | 2343.7 | 2356.0 | 2305.6 | 2213.6 | 2158.6 | 2305.1 | 2697.8 | 2979.9 | 2979.5 | 2763.0 | 1984.9 |
| 30° | 2659.2 | 2671.5 | 2620.2 | 2528.2 | 2401.7 | 2425.9 | 2776.4 | 3186.5 | 3189.6 | 2982.5 | 2090.2 |
| 32.5° | 2990.2 | 3005.7 | 2952.7 | 2834.5 | 2702.4 | 2634.5 | 2886.9 | 3394.2 | 3411.7 | 3237.0 | 2209.0 |
| 35° | 3366.4 | 3368.5 | 3294.0 | 3170.1 | 3018.0 | 2913.6 | 3064.2 | 3627.0 | 3668.6 | 3551.9 | 2359.6 |
| 37.5° | 3735.5 | 3750.3 | 3689.2 | 3493.9 | 3354.1 | 3235.9 | 3327.9 | 3917.9 | 3977.0 | 3936.9 | 2556.5 |
| 40° | 4008.9 | 4040.2 | 4031.5 | 3820.8 | 3688.2 | 3603.9 | 3655.3 | 4263.8 | 4338.9 | 4385.1 | 2804.7 |
| 42.5° | 4180.6 | 4204.2 | 4244.3 | 4117.4 | 3997.1 | 4010.9 | 4041.8 | 4666.7 | 4759.3 | 4896.0 | 3089.9 |
| 45° | 4377.4 | 4388.8 | 4422.1 | 4366.1 | 4284.9 | 4424.7 | 4452.0 | 5120.6 | 5217.8 | 5445.4 | 3406.5 |
| 47.5° | 4618.0 | 4644.6 | 4653.9 | 4602.6 | 4565.5 | 4790.6 | 4847.2 | 5533.3 | 5669.5 | 6033.9 | 3741.6 |
| 50° | 4924.3 | 4931.4 | 4947.4 | 4914.0 | 4877.0 | 5105.1 | 5201.8 | 5966.6 | 6090.5 | 6624.4 | 4072.1 |
| 52.5° | 5223.9 | 5249.6 | 5305.1 | 5284.0 | 5269.2 | 5373.0 | 5517.9 | 6357.2 | 6495.4 | 7116.8 | 4402.1 |
| 55° | 5310.2 | 5332.4 | 5524.0 | 5655.2 | 5776.4 | 5702.9 | 5820.1 | 6707.2 | 6856.7 | 7556.8 | 4719.7 |
| 57.5° | 4965.4 | 5010.1 | 5342.1 | 5683.4 | 6186.6 | 6215.9 | 6235.4 | 7066.5 | 7200.5 | 7893.9 | 5050.2 |
| 60° | 4093.7 | 4102.4 | 4647.3 | 5232.6 | 6118.7 | 6663.5 | 6841.9 | 7452.4 | 7565.0 | 8208.0 | 5445.9 |
| 62.5° | 2603.7 | 2692.7 | 3290.4 | 4116.8 | 5401.2 | 6598.8 | 7575.3 | 8036.3 | 8077.4 | 8584.7 | 6013.3 |
| 65° | 1240.2 | 1297.8 | 1728.5 | 2543.6 | 3912.3 | 5769.8 | 8081.5 | 9092.5 | 9111.0 | 9331.5 | 6771.4 |
| 67.5° | 686.7 | 714.4 | 919.5 | 1369.2 | 2287.1 | 4080.4 | 7877.0 | 10343.5 | 10361.0 | 10094.2 | 7436.5 |
| 69° | 537.1 | 560.7 | 722.1 | 1032.0 | 1550.7 | 2932.7 | 7128.1 | 10709.9 | 10761.8 | 10312.7 | 7460.1 |
| 70° | 455.9 | 479.0 | 621.9 | 871.7 | 1246.9 | 2266.1 | 6344.9 | 10618.9 | 10674.0 | 10292.1 | 7283.9 |
| 72.5° | 279.1 | 292.4 | 414.3 | 613.7 | 835.7 | 1140.0 | 3912.8 | 8980.4 | 9073.5 | 9440.9 | 6260.0 |
| 75° | 188.1 | 195.3 | 259.0 | 423.5 | 597.7 | 586.9 | 2032.8 | 6329.9 | 6531.4 | 7344.0 | 4623.6 |
| 77.5° | 134.6 | 141.4 | 173.7 | 273.9 | 418.9 | 387.5 | 920.5 | 3933.9 | 3977.0 | 4404.6 | 2521.5 |
| 80° | 76.6 | 82.8 | 122.9 | 162.9 | 284.3 | 258.5 | 365.9 | 1879.1 | 1900.6 | 1888.8 | 841.9 |
| 82.5° | 40.1 | 45.2 | 67.4 | 107.4 | 182.4 | 169.1 | 152.1 | 629.1 | 632.2 | 525.8 | 184.5 |
| 85° | 7.7 | 9.2 | 33.4 | 73.5 | 94.0 | 73.5 | 62.2 | 147.5 | 150.6 | 133.1 | 45.7 |
| 87.5° | 0.0 | 0.5 | 13.3 | 16.4 | 18.5 | 19.0 | 20.0 | 28.7 | 30.8 | 41.6 | 12.3 |
| 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° | 1231.5 | 1231.5 | 1231.5 | 1231.5 | 1231.5 | 1231.5 | 1231.5 | 1231.5 | 1231.5 | 1231.5 | 1231.5 |
| 2.5° | 1237.1 | 1218.6 | 1183.2 | 1142.0 | 1110.2 | 1078.8 | 1054.1 | 1028.4 | 1019.1 | 1014.5 | 1014.1 |
| 5° | 1249.4 | 1210.4 | 1135.4 | 1058.2 | 995.0 | 935.4 | 892.7 | 852.1 | 833.1 | 824.4 | 820.8 |
| 7.5° | 1270.0 | 1207.3 | 1086.5 | 968.8 | 877.9 | 803.3 | 744.2 | 700.0 | 678.0 | 668.7 | 665.1 |
| 10° | 1294.1 | 1203.2 | 1029.5 | 874.3 | 758.1 | 681.0 | 622.4 | 578.8 | 554.5 | 544.3 | 539.1 |
| 12.5° | 1322.4 | 1195.9 | 963.6 | 778.7 | 655.8 | 578.8 | 507.8 | 453.8 | 426.1 | 414.3 | 408.6 |
| 15° | 1357.3 | 1188.8 | 894.8 | 688.7 | 565.9 | 471.9 | 394.2 | 357.7 | 352.1 | 350.0 | 350.5 |
| 17.5° | 1391.8 | 1177.5 | 819.8 | 599.8 | 471.3 | 368.5 | 329.0 | 326.9 | 327.9 | 327.9 | 327.9 |
| 20° | 1422.6 | 1151.8 | 738.1 | 523.7 | 381.4 | 310.9 | 302.8 | 299.1 | 296.6 | 294.5 | 292.0 |
| 22.5° | 1446.8 | 1117.3 | 659.5 | 448.2 | 311.5 | 284.7 | 271.9 | 260.6 | 251.3 | 245.2 | 242.1 |
| 25° | 1463.3 | 1071.6 | 587.5 | 375.7 | 280.1 | 259.0 | 235.9 | 216.9 | 202.5 | 193.8 | 190.1 |
| 27.5° | 1475.6 | 1022.2 | 523.2 | 314.5 | 258.5 | 229.2 | 198.9 | 176.3 | 161.4 | 153.7 | 150.6 |
| 30° | 1484.3 | 966.3 | 466.7 | 276.6 | 234.4 | 197.8 | 165.5 | 143.4 | 132.6 | 128.5 | 126.4 |
| 32.5° | 1492.5 | 904.1 | 413.2 | 258.5 | 211.7 | 169.1 | 138.7 | 121.8 | 115.2 | 110.0 | 108.4 |
| 35° | 1513.1 | 846.5 | 362.3 | 239.5 | 188.6 | 144.4 | 119.2 | 106.9 | 100.2 | 97.1 | 96.1 |
| 37.5° | 1561.9 | 803.8 | 313.5 | 220.0 | 165.5 | 124.9 | 104.4 | 95.6 | 89.4 | 86.3 | 85.3 |
| 40° | 1640.6 | 782.2 | 272.4 | 198.9 | 142.9 | 110.0 | 94.6 | 86.3 | 79.7 | 75.1 | 74.0 |
| 42.5° | 1756.2 | 785.3 | 243.6 | 177.8 | 124.9 | 98.2 | 85.3 | 75.5 | 68.4 | 64.3 | 63.2 |
| 45° | 1896.5 | 808.0 | 223.6 | 157.3 | 110.0 | 89.0 | 75.1 | 64.7 | 58.1 | 54.5 | 53.5 |
| 47.5° | 2048.6 | 844.4 | 207.1 | 138.7 | 98.2 | 80.2 | 64.7 | 53.9 | 48.3 | 45.2 | 44.7 |
| 50° | 2209.0 | 879.9 | 190.1 | 120.8 | 87.9 | 71.4 | 54.5 | 44.7 | 40.1 | 37.5 | 36.4 |
| 52.5° | 2371.4 | 921.0 | 174.7 | 104.4 | 79.2 | 61.2 | 45.2 | 36.4 | 32.9 | 30.8 | 29.8 |
| 55° | 2546.1 | 951.9 | 159.9 | 91.5 | 70.5 | 51.9 | 37.5 | 30.3 | 27.2 | 24.7 | 24.1 |
| 57.5° | 2751.8 | 999.6 | 144.4 | 79.2 | 60.1 | 43.2 | 30.8 | 24.1 | 21.6 | 19.0 | 18.5 |
| 60° | 3029.3 | 1055.7 | 127.9 | 69.9 | 49.3 | 35.5 | 25.2 | 19.5 | 16.4 | 14.4 | 13.9 |
| 62.5° | 3395.3 | 1117.9 | 107.4 | 61.2 | 40.1 | 28.7 | 20.0 | 15.4 | 11.8 | 9.2 | 9.2 |
| 65° | 3859.3 | 1219.1 | 87.9 | 51.4 | 32.9 | 23.7 | 15.4 | 11.3 | 6.7 | 4.1 | 4.1 |
| 67.5° | 4130.2 | 1236.6 | 70.9 | 42.2 | 26.8 | 20.0 | 12.9 | 7.7 | 2.1 | 0.5 | 0.0 |
| 69° | 4043.3 | 1135.4 | 60.1 | 36.0 | 23.1 | 19.0 | 11.8 | 5.6 | 1.0 | 0.0 | 0.0 |
| 70° | 3879.9 | 1038.2 | 53.0 | 31.8 | 21.0 | 17.9 | 11.3 | 4.1 | 1.0 | 0.0 | 0.0 |
| 72.5° | 3206.1 | 739.1 | 40.1 | 23.7 | 15.4 | 16.0 | 10.2 | 2.5 | 1.0 | 0.0 | 0.0 |
| 75° | 2335.4 | 449.2 | 28.7 | 16.4 | 9.8 | 11.8 | 7.2 | 1.0 | 0.5 | 0.0 | 0.0 |
| 77.5° | 1299.3 | 211.7 | 17.9 | 9.2 | 6.2 | 7.2 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 422.0 | 57.6 | 8.3 | 5.2 | 3.6 | 4.1 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 78.2 | 16.4 | 4.6 | 2.5 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 17.0 | 6.7 | 2.5 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 5.6 | 2.1 | 0.5 | 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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