

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: P386170

Luminaire Tested: **GWC-SA1D-735-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P386170
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-SA1D-735-U-T2-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5537.7 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

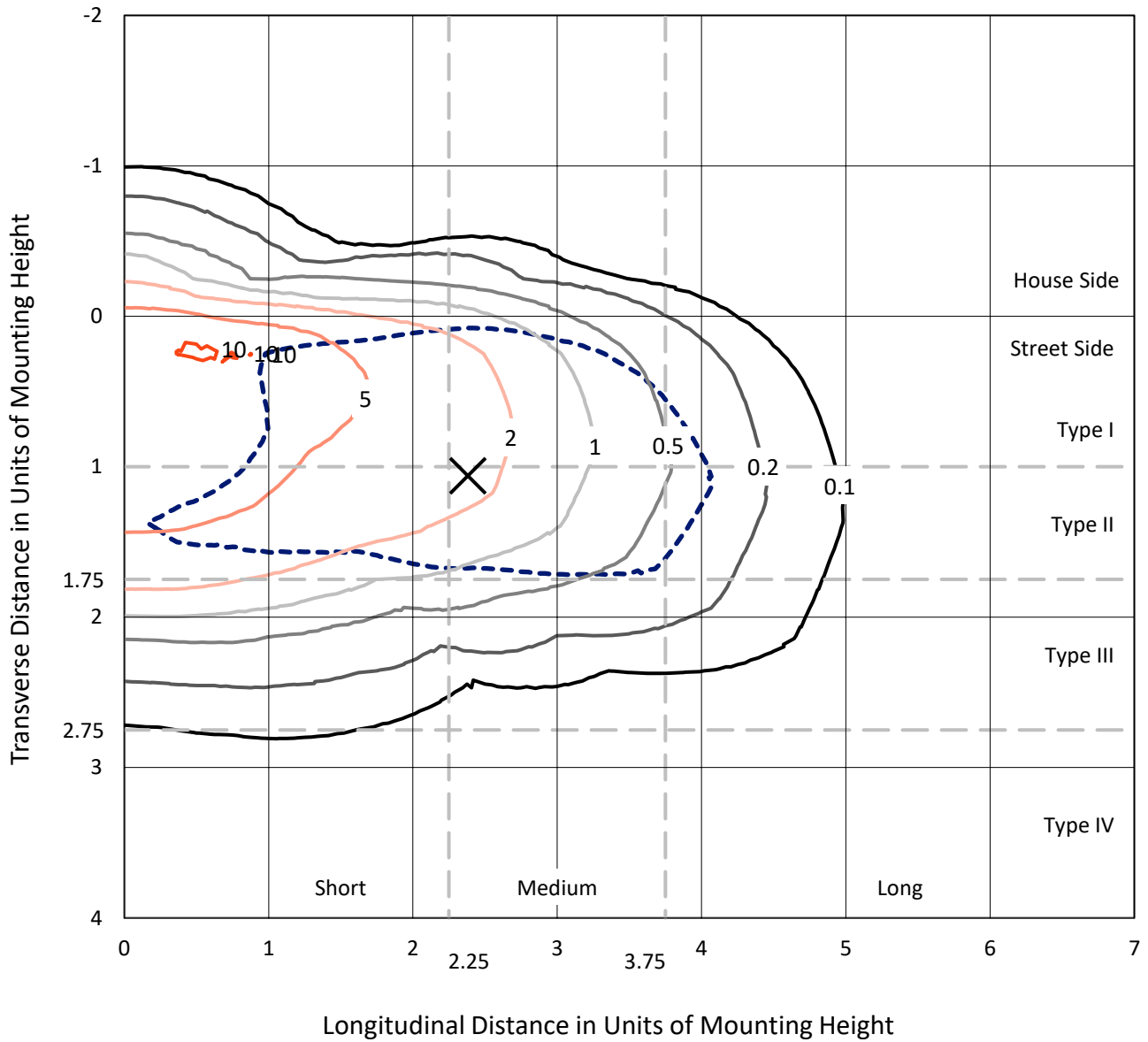
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

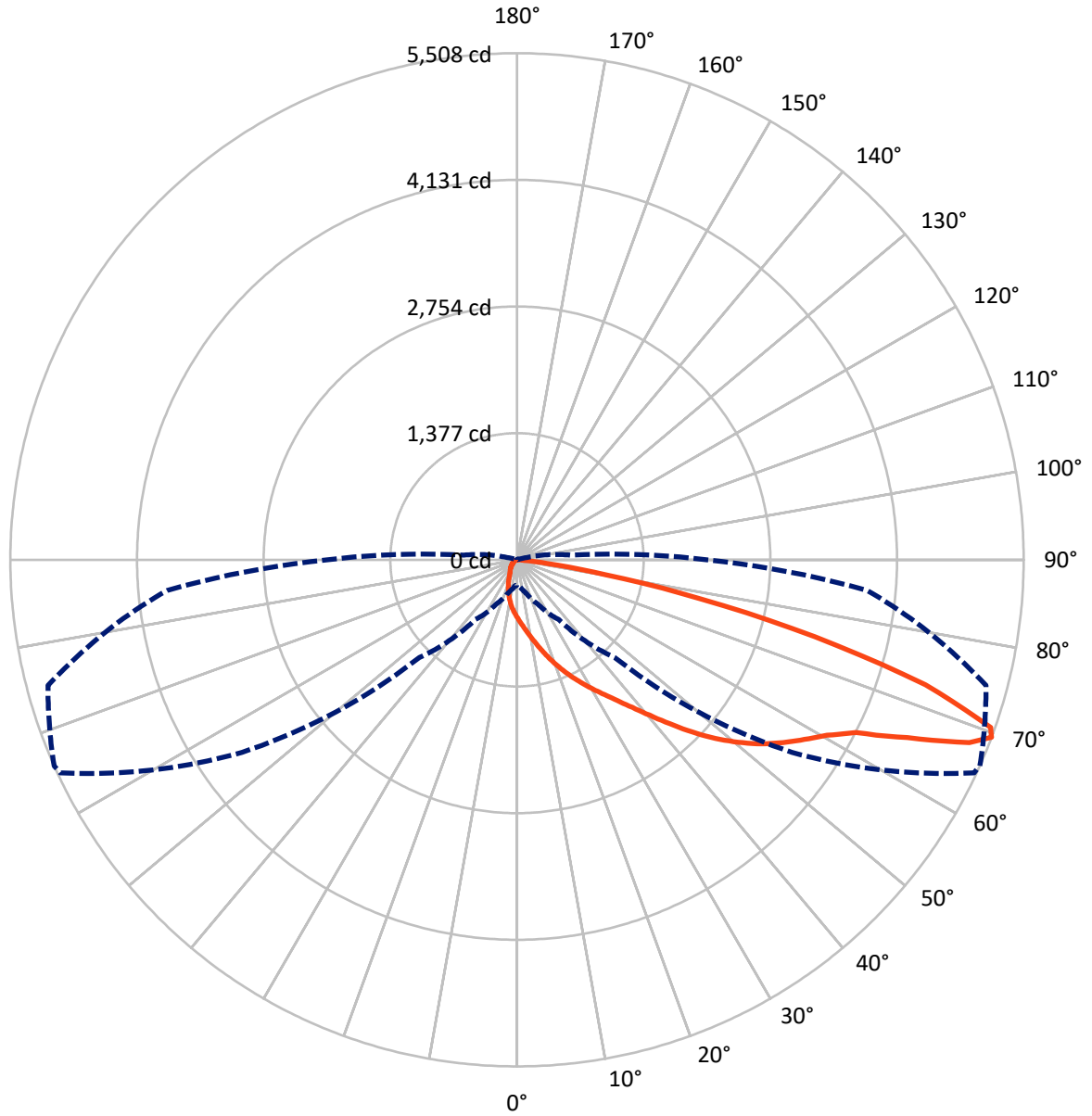
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.4 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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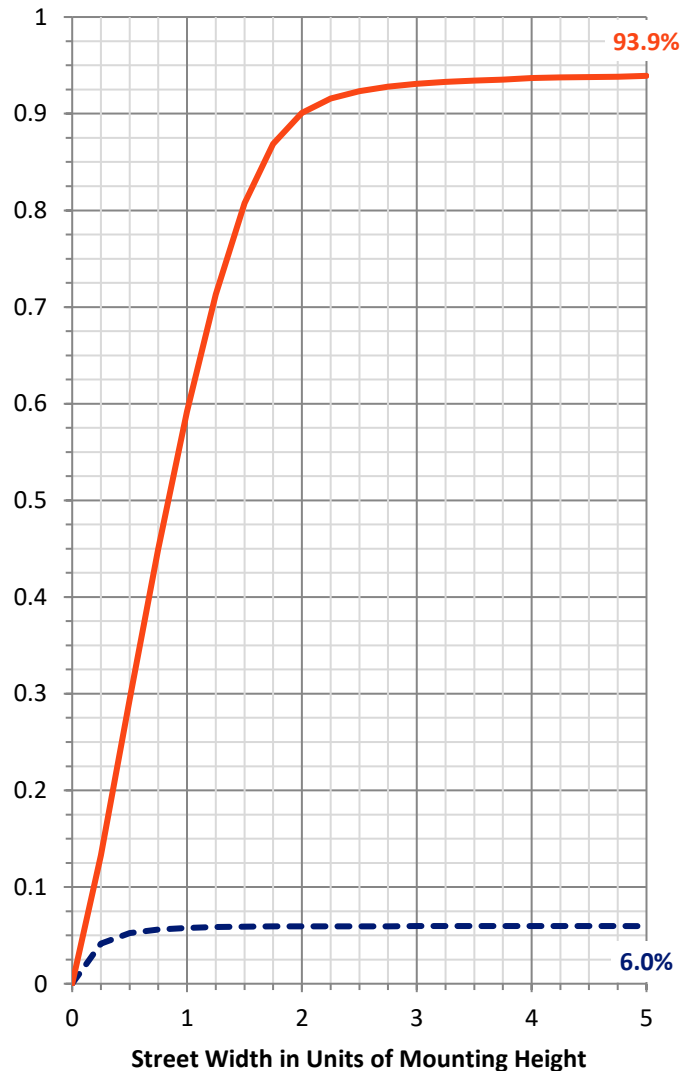
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 332.2 | 0.0 | 332.2 |
| | % Fixture | 6.0 | 0.0 | 6.0 |
| Street Side | Lumens | 5205.5 | 0.0 | 5205.5 |
| | % Fixture | 94.0 | 0.0 | 94.0 |
| Total | Lumens | 5537.7 | 0.0 | 5537.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 60.9 | 1.1 |
| 10°-20° | 181.3 | 3.3 |
| 20°-30° | 315.7 | 5.7 |
| 30°-40° | 553.9 | 10.0 |
| 40°-50° | 927.2 | 16.7 |
| 50°-60° | 1362.9 | 24.6 |
| 60°-70° | 1399.3 | 25.3 |
| 70°-80° | 690.8 | 12.5 |
| 80°-90° | 45.7 | 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° | 5537.7 | 100.0 |
| 0°-180° | 5537.7 | 100.0 |



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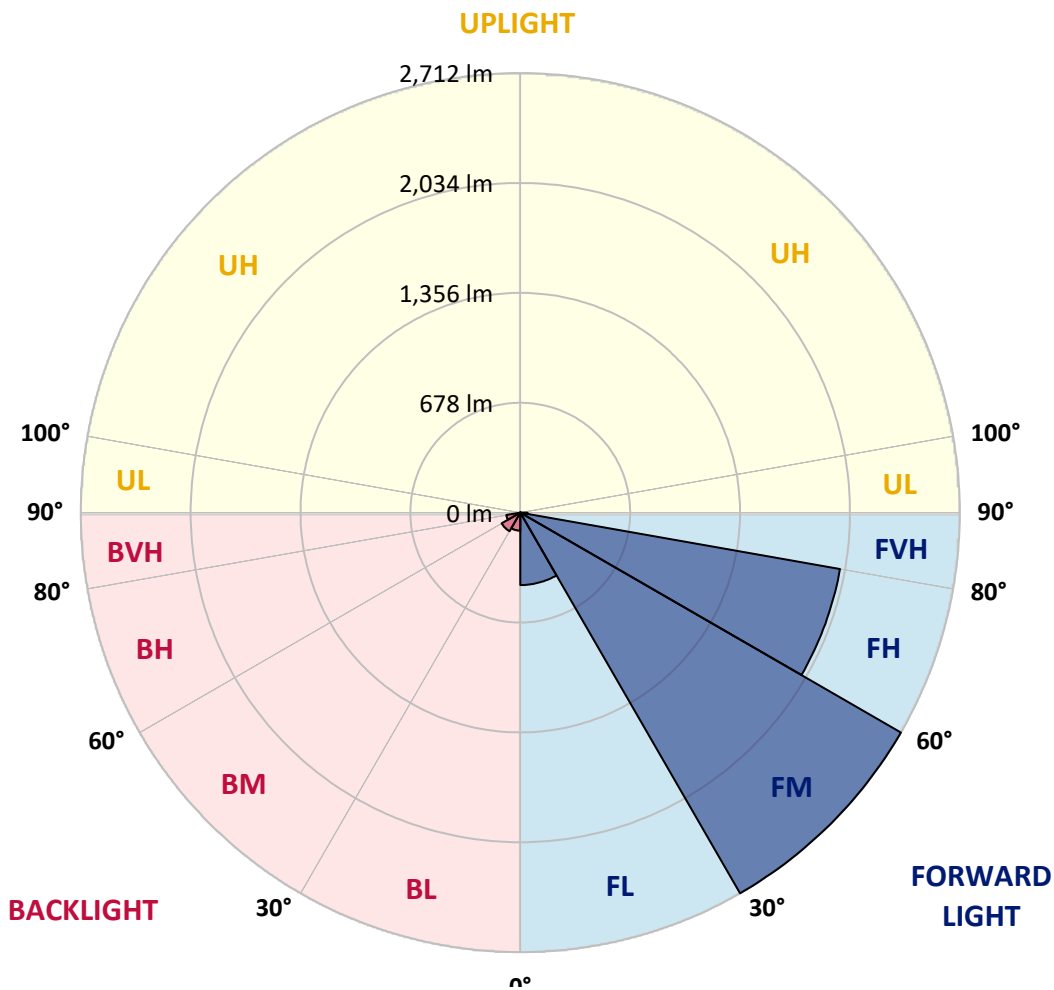
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 446.8 | 8.1 | | | |
| FM (30°-60°) | 2711.5 | 49.0 | | | |
| FH (60°-80°) | 2002.6 | 36.2 | | | G2/5000 |
| FVH (80°-90°) | 44.6 | 0.8 | | | G1/100 |
| BL (0°-30°) | 111.1 | 2.0 | B1/500 | | |
| BM (30°-60°) | 132.4 | 2.4 | B0/220 | | |
| BH (60°-80°) | 87.5 | 1.6 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.1 | 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° | 630.2 | 630.2 | 630.2 | 630.2 | 630.2 | 630.2 | 630.2 | 630.2 | 630.2 | 630.2 | 630.2 |
| 2.5° | 741.7 | 738.6 | 737.2 | 731.5 | 721.5 | 713.8 | 699.1 | 682.0 | 678.9 | 662.3 | 642.1 |
| 5° | 838.0 | 835.4 | 833.5 | 825.4 | 815.1 | 795.9 | 769.1 | 737.2 | 731.2 | 699.7 | 659.2 |
| 7.5° | 905.1 | 909.8 | 909.8 | 904.5 | 891.7 | 877.2 | 844.3 | 800.9 | 793.3 | 744.8 | 682.0 |
| 10° | 944.3 | 950.0 | 954.5 | 959.0 | 957.1 | 951.3 | 920.3 | 871.4 | 862.2 | 798.0 | 708.6 |
| 12.5° | 947.9 | 953.8 | 966.4 | 985.0 | 1003.2 | 1016.3 | 996.9 | 949.5 | 939.0 | 859.5 | 740.1 |
| 15° | 927.5 | 933.5 | 952.9 | 989.3 | 1033.1 | 1071.6 | 1077.9 | 1036.1 | 1025.3 | 932.9 | 779.6 |
| 17.5° | 891.7 | 895.6 | 923.5 | 973.7 | 1042.6 | 1113.1 | 1151.2 | 1128.9 | 1118.9 | 1016.9 | 823.6 |
| 20° | 865.1 | 868.0 | 892.4 | 946.3 | 1036.8 | 1139.2 | 1220.7 | 1227.5 | 1217.0 | 1106.8 | 871.1 |
| 22.5° | 910.6 | 915.8 | 916.7 | 942.1 | 1021.0 | 1152.1 | 1281.7 | 1324.6 | 1316.7 | 1202.3 | 918.0 |
| 25° | 1035.0 | 1041.0 | 1021.0 | 1005.2 | 1034.5 | 1157.8 | 1334.0 | 1424.0 | 1417.7 | 1305.1 | 965.0 |
| 27.5° | 1199.4 | 1205.7 | 1180.0 | 1132.8 | 1104.7 | 1179.7 | 1380.6 | 1525.0 | 1524.7 | 1414.1 | 1015.8 |
| 30° | 1360.9 | 1367.2 | 1340.9 | 1293.8 | 1229.1 | 1241.5 | 1420.8 | 1630.8 | 1632.4 | 1526.3 | 1069.7 |
| 32.5° | 1530.3 | 1538.2 | 1511.1 | 1450.6 | 1383.0 | 1348.3 | 1477.4 | 1737.0 | 1746.0 | 1656.5 | 1130.5 |
| 35° | 1722.8 | 1723.9 | 1685.7 | 1622.3 | 1544.5 | 1491.1 | 1568.1 | 1856.1 | 1877.5 | 1817.8 | 1207.6 |
| 37.5° | 1911.7 | 1919.3 | 1888.0 | 1788.0 | 1716.6 | 1656.1 | 1703.1 | 2005.0 | 2035.3 | 2014.8 | 1308.3 |
| 40° | 2051.6 | 2067.6 | 2063.2 | 1955.3 | 1887.4 | 1844.3 | 1870.6 | 2182.0 | 2220.4 | 2244.1 | 1435.3 |
| 42.5° | 2139.5 | 2151.6 | 2172.1 | 2107.1 | 2045.5 | 2052.7 | 2068.5 | 2388.3 | 2435.7 | 2505.6 | 1581.3 |
| 45° | 2240.2 | 2246.0 | 2263.1 | 2234.4 | 2192.8 | 2264.4 | 2278.3 | 2620.5 | 2670.2 | 2786.8 | 1743.3 |
| 47.5° | 2363.3 | 2376.9 | 2381.7 | 2355.4 | 2336.5 | 2451.6 | 2480.6 | 2831.7 | 2901.4 | 3088.0 | 1914.9 |
| 50° | 2520.0 | 2523.8 | 2531.9 | 2514.8 | 2495.9 | 2612.6 | 2662.1 | 3053.5 | 3116.9 | 3390.2 | 2084.0 |
| 52.5° | 2673.4 | 2686.6 | 2714.9 | 2704.1 | 2696.5 | 2749.7 | 2823.8 | 3253.4 | 3324.1 | 3642.1 | 2252.9 |
| 55° | 2717.6 | 2728.9 | 2827.0 | 2894.1 | 2956.2 | 2918.5 | 2978.5 | 3432.5 | 3509.0 | 3867.3 | 2415.4 |
| 57.5° | 2541.1 | 2564.0 | 2733.9 | 2908.6 | 3166.0 | 3181.1 | 3191.0 | 3616.4 | 3685.0 | 4039.9 | 2584.5 |
| 60° | 2095.0 | 2099.5 | 2378.3 | 2677.8 | 3131.3 | 3410.1 | 3501.4 | 3813.8 | 3871.5 | 4200.5 | 2787.0 |
| 62.5° | 1332.5 | 1378.0 | 1683.9 | 2106.9 | 2764.2 | 3377.0 | 3876.8 | 4112.7 | 4133.7 | 4393.4 | 3077.5 |
| 65° | 634.7 | 664.2 | 884.5 | 1301.7 | 2002.1 | 2952.7 | 4135.9 | 4653.2 | 4662.7 | 4775.5 | 3465.3 |
| 67.5° | 351.4 | 365.6 | 470.5 | 700.7 | 1170.5 | 2088.2 | 4031.1 | 5293.4 | 5302.3 | 5165.8 | 3805.8 |
| 69° | 274.9 | 287.0 | 369.6 | 528.1 | 793.5 | 1500.9 | 3647.9 | 5481.0 | 5507.5 | 5277.6 | 3817.8 |
| 70° | 233.3 | 245.2 | 318.3 | 446.1 | 638.1 | 1159.7 | 3247.0 | 5434.4 | 5462.6 | 5267.1 | 3727.6 |
| 72.5° | 142.8 | 149.6 | 212.0 | 314.0 | 427.7 | 583.4 | 2002.4 | 4595.9 | 4643.4 | 4831.5 | 3203.6 |
| 75° | 96.3 | 100.0 | 132.5 | 216.7 | 305.9 | 300.4 | 1040.3 | 3239.4 | 3342.6 | 3758.4 | 2366.1 |
| 77.5° | 69.0 | 72.3 | 88.9 | 140.2 | 214.4 | 198.3 | 471.1 | 2013.2 | 2035.3 | 2254.2 | 1290.4 |
| 80° | 39.2 | 42.4 | 62.8 | 83.4 | 145.4 | 132.3 | 187.3 | 961.7 | 972.6 | 966.6 | 430.8 |
| 82.5° | 20.5 | 23.1 | 34.5 | 55.0 | 93.4 | 86.5 | 77.9 | 321.9 | 323.5 | 269.0 | 94.4 |
| 85° | 3.9 | 4.7 | 17.1 | 37.6 | 48.1 | 37.6 | 31.8 | 75.5 | 77.0 | 68.1 | 23.4 |
| 87.5° | 0.0 | 0.3 | 6.9 | 8.5 | 9.5 | 9.8 | 10.2 | 14.7 | 15.8 | 21.3 | 6.3 |
| 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° | 630.2 | 630.2 | 630.2 | 630.2 | 630.2 | 630.2 | 630.2 | 630.2 | 630.2 | 630.2 | 630.2 |
| 2.5° | 633.1 | 623.7 | 605.5 | 584.5 | 568.1 | 552.1 | 539.5 | 526.3 | 521.6 | 519.2 | 518.9 |
| 5° | 639.4 | 619.4 | 581.0 | 541.6 | 509.2 | 478.7 | 456.9 | 436.1 | 426.4 | 421.9 | 420.1 |
| 7.5° | 650.0 | 617.8 | 556.0 | 495.8 | 449.2 | 411.1 | 380.8 | 358.3 | 346.9 | 342.2 | 340.3 |
| 10° | 662.3 | 615.8 | 526.8 | 447.4 | 388.0 | 348.5 | 318.5 | 296.2 | 283.8 | 278.5 | 275.9 |
| 12.5° | 676.7 | 612.1 | 493.2 | 398.5 | 335.6 | 296.2 | 259.8 | 232.2 | 218.0 | 212.0 | 209.1 |
| 15° | 694.7 | 608.4 | 458.0 | 352.5 | 289.6 | 241.4 | 201.8 | 183.1 | 180.2 | 179.1 | 179.4 |
| 17.5° | 712.2 | 602.6 | 419.5 | 307.0 | 241.2 | 188.6 | 168.3 | 167.3 | 167.8 | 167.8 | 167.8 |
| 20° | 728.0 | 589.5 | 377.7 | 268.0 | 195.2 | 159.1 | 154.9 | 153.1 | 151.8 | 150.7 | 149.4 |
| 22.5° | 740.4 | 571.8 | 337.4 | 229.4 | 159.4 | 145.7 | 139.1 | 133.4 | 128.6 | 125.5 | 123.9 |
| 25° | 748.8 | 548.4 | 300.6 | 192.3 | 143.4 | 132.5 | 120.7 | 111.0 | 103.6 | 99.2 | 97.3 |
| 27.5° | 755.2 | 523.1 | 267.7 | 161.0 | 132.3 | 117.3 | 101.8 | 90.2 | 82.6 | 78.6 | 77.0 |
| 30° | 759.6 | 494.5 | 238.8 | 141.5 | 120.0 | 101.3 | 84.7 | 73.4 | 67.8 | 65.8 | 64.7 |
| 32.5° | 763.8 | 462.7 | 211.5 | 132.3 | 108.4 | 86.5 | 71.0 | 62.4 | 58.9 | 56.3 | 55.5 |
| 35° | 774.3 | 433.2 | 185.4 | 122.6 | 96.6 | 73.9 | 61.1 | 54.7 | 51.3 | 49.7 | 49.2 |
| 37.5° | 799.3 | 411.4 | 160.4 | 112.5 | 84.7 | 63.9 | 53.4 | 48.9 | 45.7 | 44.2 | 43.7 |
| 40° | 839.5 | 400.4 | 139.4 | 101.8 | 73.1 | 56.3 | 48.4 | 44.2 | 40.8 | 38.4 | 37.9 |
| 42.5° | 898.7 | 401.9 | 124.7 | 91.0 | 63.9 | 50.3 | 43.7 | 38.7 | 34.9 | 32.9 | 32.3 |
| 45° | 970.6 | 413.5 | 114.4 | 80.5 | 56.3 | 45.5 | 38.4 | 33.2 | 29.7 | 27.9 | 27.3 |
| 47.5° | 1048.5 | 432.1 | 106.0 | 71.0 | 50.3 | 41.1 | 33.2 | 27.6 | 24.7 | 23.1 | 22.9 |
| 50° | 1130.5 | 450.3 | 97.3 | 61.8 | 45.0 | 36.5 | 27.9 | 22.9 | 20.5 | 19.2 | 18.7 |
| 52.5° | 1213.6 | 471.4 | 89.4 | 53.4 | 40.5 | 31.3 | 23.1 | 18.7 | 16.8 | 15.8 | 15.2 |
| 55° | 1303.0 | 487.2 | 81.8 | 46.8 | 36.1 | 26.6 | 19.2 | 15.5 | 13.9 | 12.6 | 12.4 |
| 57.5° | 1408.2 | 511.6 | 73.9 | 40.5 | 30.8 | 22.1 | 15.8 | 12.4 | 11.1 | 9.8 | 9.5 |
| 60° | 1550.3 | 540.2 | 65.5 | 35.8 | 25.3 | 18.1 | 12.9 | 10.0 | 8.5 | 7.3 | 7.1 |
| 62.5° | 1737.6 | 572.1 | 55.0 | 31.3 | 20.5 | 14.7 | 10.2 | 7.9 | 6.0 | 4.7 | 4.7 |
| 65° | 1975.1 | 623.9 | 45.0 | 26.3 | 16.8 | 12.1 | 7.9 | 5.8 | 3.4 | 2.1 | 2.1 |
| 67.5° | 2113.6 | 632.9 | 36.3 | 21.6 | 13.7 | 10.2 | 6.6 | 3.9 | 1.0 | 0.3 | 0.0 |
| 69° | 2069.2 | 581.0 | 30.8 | 18.4 | 11.8 | 9.8 | 6.0 | 2.9 | 0.6 | 0.0 | 0.0 |
| 70° | 1985.6 | 531.3 | 27.1 | 16.3 | 10.8 | 9.2 | 5.8 | 2.1 | 0.6 | 0.0 | 0.0 |
| 72.5° | 1640.7 | 378.2 | 20.5 | 12.1 | 7.9 | 8.2 | 5.3 | 1.3 | 0.6 | 0.0 | 0.0 |
| 75° | 1195.2 | 229.9 | 14.7 | 8.5 | 5.0 | 6.0 | 3.7 | 0.6 | 0.3 | 0.0 | 0.0 |
| 77.5° | 664.9 | 108.4 | 9.2 | 4.7 | 3.2 | 3.7 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 216.0 | 29.5 | 4.2 | 2.6 | 1.9 | 2.1 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 40.0 | 8.5 | 2.3 | 1.3 | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 8.6 | 3.4 | 1.3 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.9 | 1.0 | 0.3 | 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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