

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: P385603

Luminaire Tested: **GWC-SA1A-830-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P385603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-SA1A-830-U-SL3
Description: GALLEON WALL LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3954 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

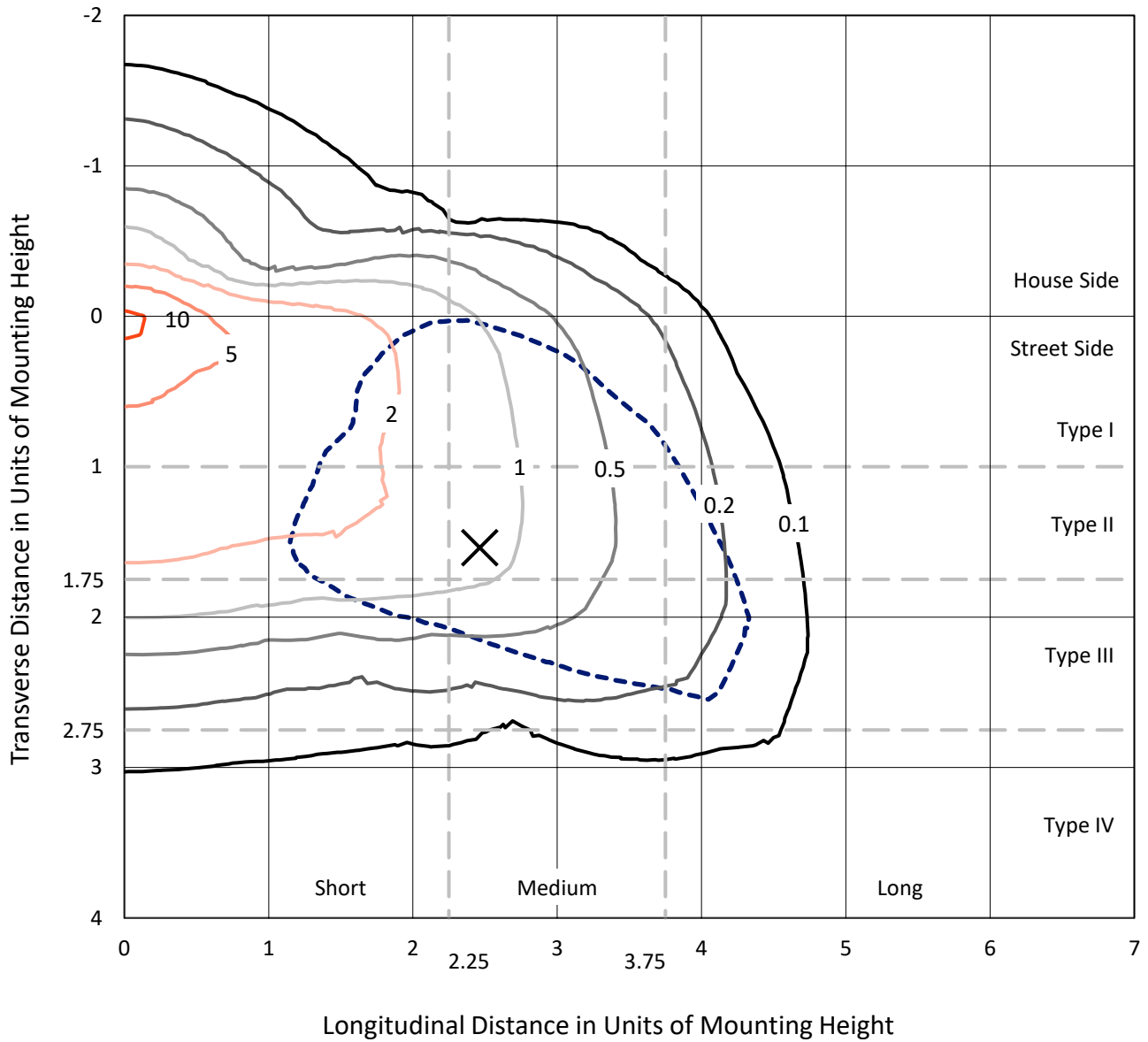
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P385603
 CATALOG NUMBER: GWC-SA1A-830-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

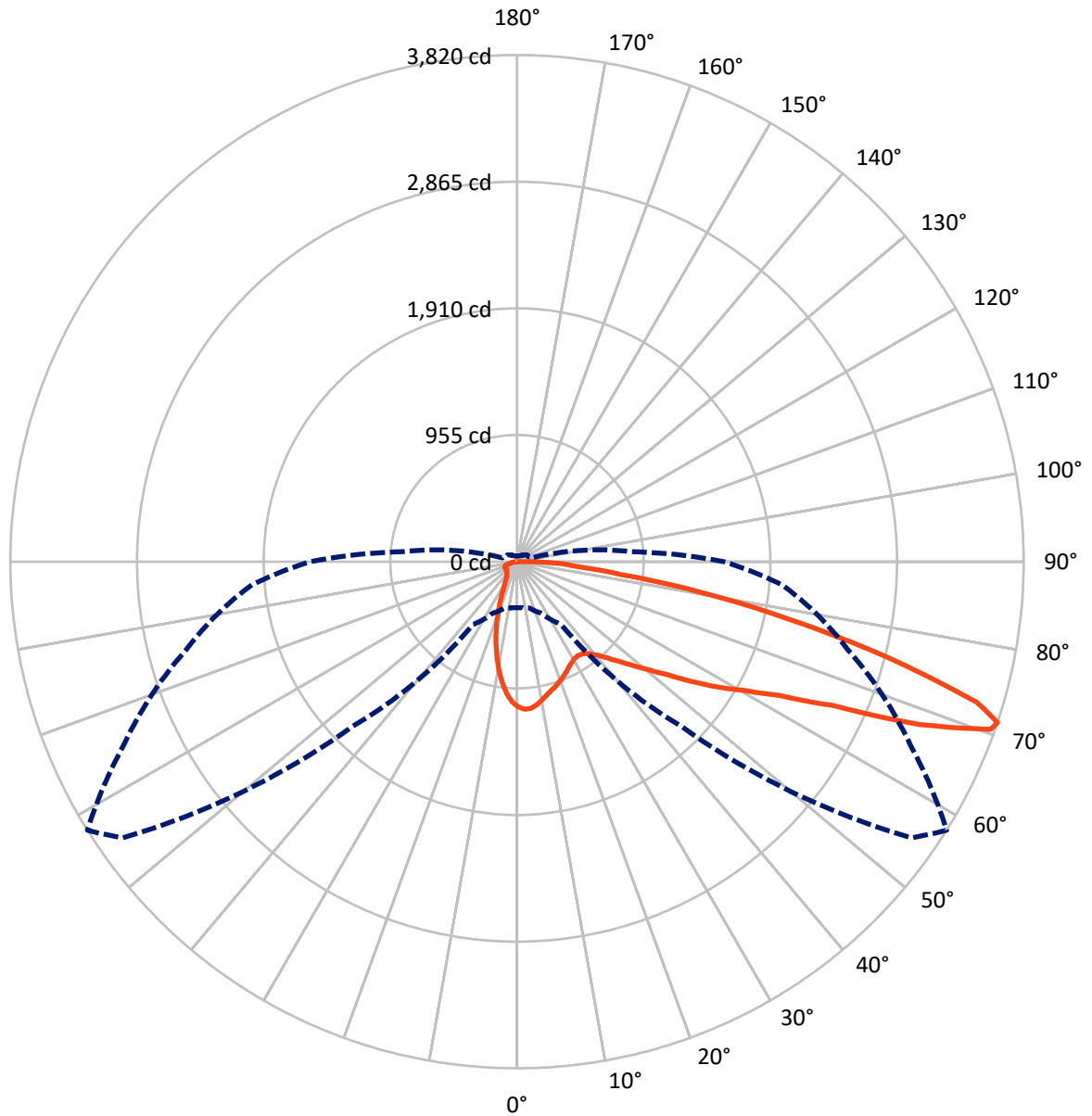
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11 fc
 Type III - Medium - N/A

REPORT NUMBER: P385603
CATALOG NUMBER: GWC-SA1A-830-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P385603

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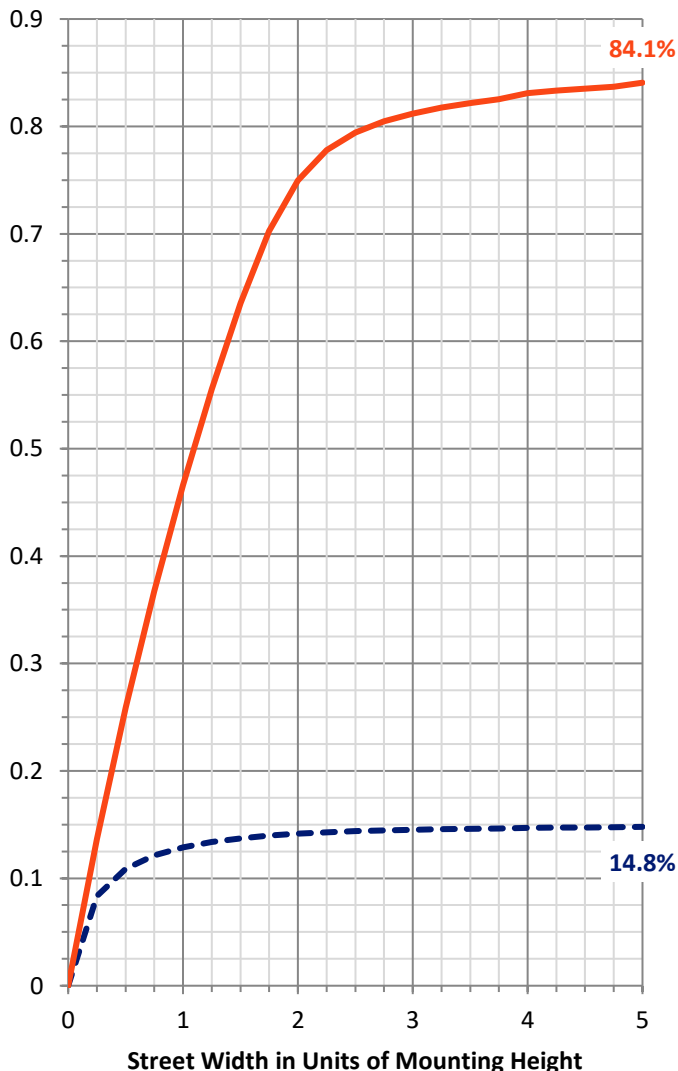
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 591.2 | 0.0 | 591.2 |
| | % Fixture | 15.0 | 0.0 | 15.0 |
| Street Side | Lumens | 3362.8 | 0.0 | 3362.8 |
| | % Fixture | 85.0 | 0.0 | 85.0 |
| Total | Lumens | 3954.0 | 0.0 | 3954.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 94.5 | 2.4 |
| 10°-20° | 210.2 | 5.3 |
| 20°-30° | 267.1 | 6.8 |
| 30°-40° | 340.2 | 8.6 |
| 40°-50° | 482.4 | 12.2 |
| 50°-60° | 746.6 | 18.9 |
| 60°-70° | 1016.4 | 25.7 |
| 70°-80° | 678.1 | 17.1 |
| 80°-90° | 118.6 | 3.0 |
| 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° | 3954.0 | 100.0 |
| 0°-180° | 3954.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P385603

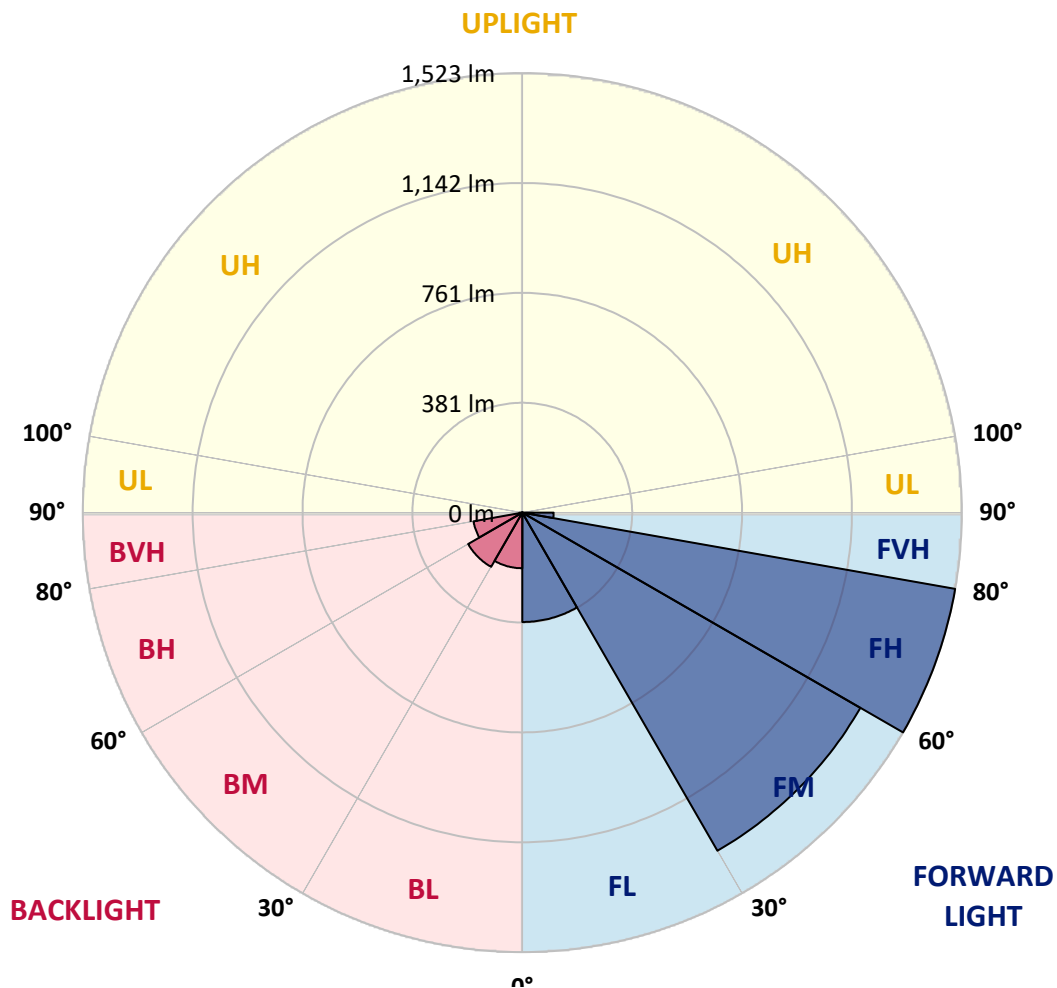
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 379.1 | 9.6 | | | |
| FM (30°-60°) | 1352.5 | 34.2 | | | |
| FH (60°-80°) | 1522.6 | 38.5 | | | G1/1800 |
| FVH (80°-90°) | 108.7 | 2.7 | | | G2/225 |
| BL (0°-30°) | 192.7 | 4.9 | B1/500 | | |
| BM (30°-60°) | 216.8 | 5.5 | B0/220 | | |
| BH (60°-80°) | 171.8 | 4.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 9.9 | 0.2 | | | 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





REPORT NUMBER: P385603

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1095.5 | 1095.5 | 1095.5 | 1095.5 | 1095.5 | 1095.5 | 1095.5 | 1095.5 | 1095.5 | 1095.5 | 1095.5 |
| 2.5° | 1124.6 | 1123.1 | 1123.6 | 1122.5 | 1119.9 | 1117.3 | 1113.4 | 1114.1 | 1108.7 | 1100.8 | 1090.8 |
| 5° | 1103.4 | 1102.8 | 1107.0 | 1109.3 | 1111.2 | 1109.7 | 1108.6 | 1110.0 | 1102.1 | 1091.1 | 1073.9 |
| 7.5° | 1058.9 | 1052.8 | 1058.1 | 1065.9 | 1073.3 | 1079.0 | 1086.4 | 1087.4 | 1082.4 | 1070.9 | 1048.3 |
| 10° | 995.7 | 989.9 | 997.6 | 1009.9 | 1024.7 | 1038.2 | 1053.2 | 1056.0 | 1057.0 | 1046.5 | 1019.1 |
| 12.5° | 930.1 | 925.7 | 933.4 | 950.6 | 975.3 | 996.1 | 1020.0 | 1024.2 | 1032.7 | 1025.7 | 992.1 |
| 15° | 871.4 | 869.8 | 879.1 | 896.1 | 924.5 | 956.3 | 990.8 | 998.4 | 1012.9 | 1010.5 | 971.0 |
| 17.5° | 820.7 | 820.3 | 827.5 | 845.3 | 876.7 | 916.9 | 961.8 | 974.6 | 996.1 | 998.8 | 953.7 |
| 20° | 783.0 | 782.2 | 787.1 | 800.2 | 832.6 | 878.2 | 930.4 | 948.0 | 979.0 | 988.6 | 935.8 |
| 22.5° | 762.8 | 762.6 | 762.8 | 769.0 | 795.4 | 837.8 | 899.8 | 921.3 | 962.3 | 980.5 | 915.9 |
| 25° | 759.3 | 758.9 | 755.9 | 755.2 | 770.2 | 804.1 | 869.5 | 893.2 | 946.5 | 974.9 | 897.1 |
| 27.5° | 768.3 | 768.8 | 764.8 | 758.4 | 761.4 | 781.9 | 843.2 | 868.5 | 933.8 | 973.8 | 884.0 |
| 30° | 786.9 | 786.6 | 783.1 | 776.4 | 770.5 | 773.6 | 824.5 | 849.8 | 925.3 | 978.6 | 875.0 |
| 32.5° | 807.4 | 808.9 | 808.2 | 804.5 | 795.7 | 783.0 | 818.8 | 843.6 | 922.8 | 990.2 | 871.2 |
| 35° | 832.0 | 833.7 | 838.7 | 841.5 | 831.2 | 810.8 | 830.9 | 852.4 | 930.0 | 1011.9 | 877.4 |
| 37.5° | 855.5 | 859.7 | 873.6 | 885.9 | 877.1 | 854.4 | 863.2 | 878.5 | 952.1 | 1046.2 | 894.0 |
| 40° | 882.5 | 886.2 | 908.9 | 934.9 | 933.5 | 910.0 | 915.1 | 925.3 | 991.3 | 1095.4 | 924.2 |
| 42.5° | 909.0 | 916.5 | 949.4 | 986.3 | 996.9 | 976.1 | 984.2 | 989.6 | 1046.4 | 1160.5 | 976.8 |
| 45° | 944.4 | 952.4 | 998.1 | 1042.6 | 1067.4 | 1055.7 | 1068.7 | 1070.7 | 1115.6 | 1249.2 | 1053.2 |
| 47.5° | 998.0 | 1007.1 | 1060.4 | 1107.1 | 1145.0 | 1146.2 | 1167.6 | 1166.7 | 1202.1 | 1350.7 | 1149.5 |
| 50° | 1081.5 | 1094.6 | 1138.2 | 1181.9 | 1227.9 | 1253.5 | 1282.0 | 1278.0 | 1305.8 | 1458.9 | 1260.4 |
| 52.5° | 1190.8 | 1196.9 | 1229.3 | 1261.5 | 1318.6 | 1376.1 | 1417.0 | 1413.4 | 1423.5 | 1570.0 | 1386.3 |
| 55° | 1304.2 | 1308.7 | 1322.1 | 1339.7 | 1416.6 | 1510.2 | 1596.7 | 1591.1 | 1565.6 | 1685.4 | 1510.6 |
| 57.5° | 1406.1 | 1415.3 | 1424.6 | 1431.9 | 1515.2 | 1650.4 | 1780.6 | 1781.0 | 1719.9 | 1809.9 | 1639.2 |
| 60° | 1421.9 | 1430.1 | 1491.1 | 1548.7 | 1683.9 | 1837.5 | 1977.4 | 1973.3 | 1879.5 | 1945.1 | 1782.4 |
| 62.5° | 1256.9 | 1275.3 | 1377.2 | 1530.3 | 1846.4 | 2179.6 | 2228.5 | 2223.4 | 2070.4 | 2111.6 | 1949.2 |
| 65° | 900.8 | 921.6 | 1044.6 | 1274.7 | 1767.7 | 2556.6 | 2681.6 | 2613.1 | 2330.7 | 2316.4 | 2144.5 |
| 67.5° | 519.7 | 524.6 | 577.9 | 762.8 | 1345.9 | 2576.3 | 3372.9 | 3276.9 | 2734.9 | 2548.7 | 2240.1 |
| 70° | 384.3 | 384.1 | 396.8 | 469.4 | 728.3 | 2102.6 | 3701.7 | 3787.8 | 3160.5 | 2625.2 | 2105.0 |
| 71° | 347.5 | 347.9 | 362.1 | 427.2 | 576.8 | 1759.9 | 3631.9 | 3820.3 | 3272.7 | 2587.4 | 2007.2 |
| 72.5° | 297.2 | 298.6 | 318.3 | 383.2 | 485.2 | 1213.7 | 3331.1 | 3625.3 | 3325.8 | 2494.3 | 1854.2 |
| 75° | 225.5 | 228.6 | 255.9 | 323.0 | 443.5 | 615.5 | 2444.7 | 2894.9 | 2954.5 | 2201.0 | 1377.7 |
| 77.5° | 160.9 | 164.5 | 195.3 | 271.6 | 421.6 | 463.9 | 1637.2 | 2111.6 | 2174.2 | 1410.5 | 621.4 |
| 80° | 101.6 | 105.9 | 129.2 | 216.1 | 396.1 | 440.5 | 1028.9 | 1419.3 | 1185.6 | 451.3 | 158.1 |
| 82.5° | 59.6 | 62.9 | 80.2 | 141.2 | 323.5 | 424.2 | 605.3 | 786.7 | 461.4 | 136.4 | 71.9 |
| 85° | 34.6 | 36.1 | 50.0 | 89.9 | 235.0 | 400.4 | 444.7 | 439.8 | 200.3 | 66.7 | 34.0 |
| 87.5° | 16.1 | 17.9 | 29.6 | 47.0 | 130.4 | 290.2 | 351.5 | 303.7 | 124.5 | 31.3 | 16.0 |
| 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° | 1095.5 | 1095.5 | 1095.5 | 1095.5 | 1095.5 | 1095.5 | 1095.5 | 1095.5 | 1095.5 | 1095.5 | 1095.5 |
| 2.5° | 1086.0 | 1083.7 | 1073.9 | 1065.2 | 1056.1 | 1044.3 | 1031.2 | 1029.5 | 1021.6 | 1023.1 | 1020.3 |
| 5° | 1064.5 | 1058.6 | 1035.1 | 1013.7 | 988.5 | 965.9 | 941.4 | 930.1 | 913.9 | 912.8 | 908.6 |
| 7.5° | 1033.8 | 1022.8 | 986.3 | 945.8 | 905.3 | 866.7 | 828.6 | 803.5 | 777.9 | 767.0 | 766.1 |
| 10° | 999.2 | 980.5 | 926.8 | 866.9 | 808.5 | 752.2 | 697.6 | 657.3 | 620.9 | 603.7 | 603.0 |
| 12.5° | 966.5 | 938.8 | 865.1 | 783.6 | 703.7 | 630.7 | 555.9 | 502.9 | 457.3 | 442.0 | 435.5 |
| 15° | 938.6 | 899.7 | 805.0 | 700.8 | 603.8 | 502.4 | 417.3 | 361.5 | 319.4 | 304.8 | 302.0 |
| 17.5° | 911.6 | 861.5 | 743.5 | 617.2 | 500.0 | 388.5 | 303.3 | 261.8 | 239.4 | 233.5 | 233.3 |
| 20° | 884.8 | 822.3 | 679.2 | 531.6 | 399.6 | 290.6 | 233.2 | 214.6 | 207.0 | 206.3 | 205.2 |
| 22.5° | 854.4 | 780.7 | 611.5 | 445.8 | 311.8 | 228.5 | 198.2 | 190.8 | 189.8 | 192.3 | 192.3 |
| 25° | 825.8 | 739.3 | 542.9 | 361.8 | 242.5 | 190.6 | 177.0 | 175.5 | 178.1 | 182.5 | 182.9 |
| 27.5° | 799.3 | 699.5 | 476.0 | 287.2 | 194.3 | 167.9 | 162.2 | 164.0 | 168.7 | 173.8 | 174.0 |
| 30° | 777.4 | 661.9 | 411.0 | 226.3 | 164.2 | 151.0 | 150.0 | 153.6 | 158.7 | 162.7 | 163.6 |
| 32.5° | 760.4 | 629.8 | 348.2 | 181.9 | 144.5 | 138.3 | 139.1 | 142.1 | 145.3 | 147.5 | 149.0 |
| 35° | 752.6 | 602.3 | 290.2 | 153.4 | 131.9 | 128.5 | 129.6 | 131.3 | 132.6 | 134.3 | 135.5 |
| 37.5° | 753.9 | 581.0 | 238.4 | 135.7 | 123.5 | 121.8 | 121.8 | 121.8 | 121.8 | 122.6 | 122.7 |
| 40° | 766.8 | 568.7 | 196.3 | 124.4 | 117.9 | 116.0 | 114.5 | 113.1 | 112.0 | 112.5 | 112.3 |
| 42.5° | 799.5 | 567.6 | 165.4 | 117.2 | 113.4 | 110.2 | 107.2 | 105.2 | 103.9 | 104.4 | 104.7 |
| 45° | 855.2 | 581.4 | 144.6 | 112.1 | 109.1 | 104.3 | 100.4 | 98.3 | 97.4 | 99.2 | 99.4 |
| 47.5° | 927.2 | 611.4 | 131.9 | 108.4 | 105.1 | 98.8 | 94.6 | 92.7 | 93.0 | 95.6 | 96.3 |
| 50° | 1020.0 | 660.2 | 125.9 | 106.1 | 102.3 | 94.1 | 89.8 | 88.1 | 89.0 | 92.7 | 93.5 |
| 52.5° | 1122.0 | 730.4 | 126.6 | 105.4 | 100.5 | 90.6 | 86.1 | 84.2 | 85.5 | 89.0 | 89.7 |
| 55° | 1239.6 | 814.8 | 138.0 | 106.3 | 97.9 | 88.4 | 83.1 | 79.7 | 80.8 | 84.0 | 84.6 |
| 57.5° | 1370.3 | 911.5 | 161.0 | 106.1 | 94.6 | 86.4 | 79.9 | 74.9 | 75.8 | 77.7 | 78.2 |
| 60° | 1506.4 | 1028.3 | 196.7 | 106.9 | 93.1 | 83.9 | 75.6 | 69.4 | 69.1 | 70.8 | 71.1 |
| 62.5° | 1669.7 | 1163.4 | 237.5 | 107.4 | 94.1 | 80.7 | 70.0 | 63.9 | 63.1 | 63.5 | 63.8 |
| 65° | 1838.0 | 1261.2 | 222.2 | 105.2 | 97.1 | 78.1 | 65.0 | 58.5 | 57.0 | 56.7 | 56.9 |
| 67.5° | 1843.3 | 1156.4 | 155.8 | 100.8 | 98.3 | 76.7 | 61.3 | 54.0 | 51.5 | 50.5 | 50.4 |
| 70° | 1653.1 | 939.5 | 121.3 | 96.1 | 93.4 | 74.5 | 57.8 | 50.3 | 46.6 | 45.0 | 44.9 |
| 71° | 1560.2 | 864.8 | 115.0 | 93.8 | 89.7 | 72.3 | 56.3 | 48.6 | 44.8 | 43.1 | 42.8 |
| 72.5° | 1414.6 | 775.3 | 107.3 | 90.1 | 82.5 | 66.7 | 53.4 | 46.3 | 42.3 | 40.4 | 39.9 |
| 75° | 1015.2 | 507.0 | 92.1 | 80.3 | 68.3 | 53.2 | 46.8 | 41.6 | 38.2 | 35.8 | 35.5 |
| 77.5° | 391.2 | 201.8 | 69.7 | 66.8 | 52.3 | 41.6 | 38.6 | 35.9 | 33.5 | 31.1 | 31.0 |
| 80° | 120.9 | 90.2 | 50.8 | 50.3 | 37.9 | 31.0 | 30.0 | 29.3 | 28.4 | 25.9 | 25.3 |
| 82.5° | 64.6 | 51.8 | 35.0 | 32.5 | 24.8 | 20.7 | 21.8 | 22.0 | 22.2 | 19.6 | 19.3 |
| 85° | 30.9 | 27.4 | 19.7 | 18.5 | 14.5 | 11.6 | 13.4 | 14.5 | 14.6 | 12.0 | 11.2 |
| 87.5° | 14.7 | 14.3 | 9.2 | 7.0 | 5.4 | 3.9 | 4.7 | 5.8 | 6.3 | 4.5 | 4.0 |
| 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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