

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: P386108

Luminaire Tested: **GWC-SA1D-727-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P386108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-SA1D-727-U-SL4-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5624 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

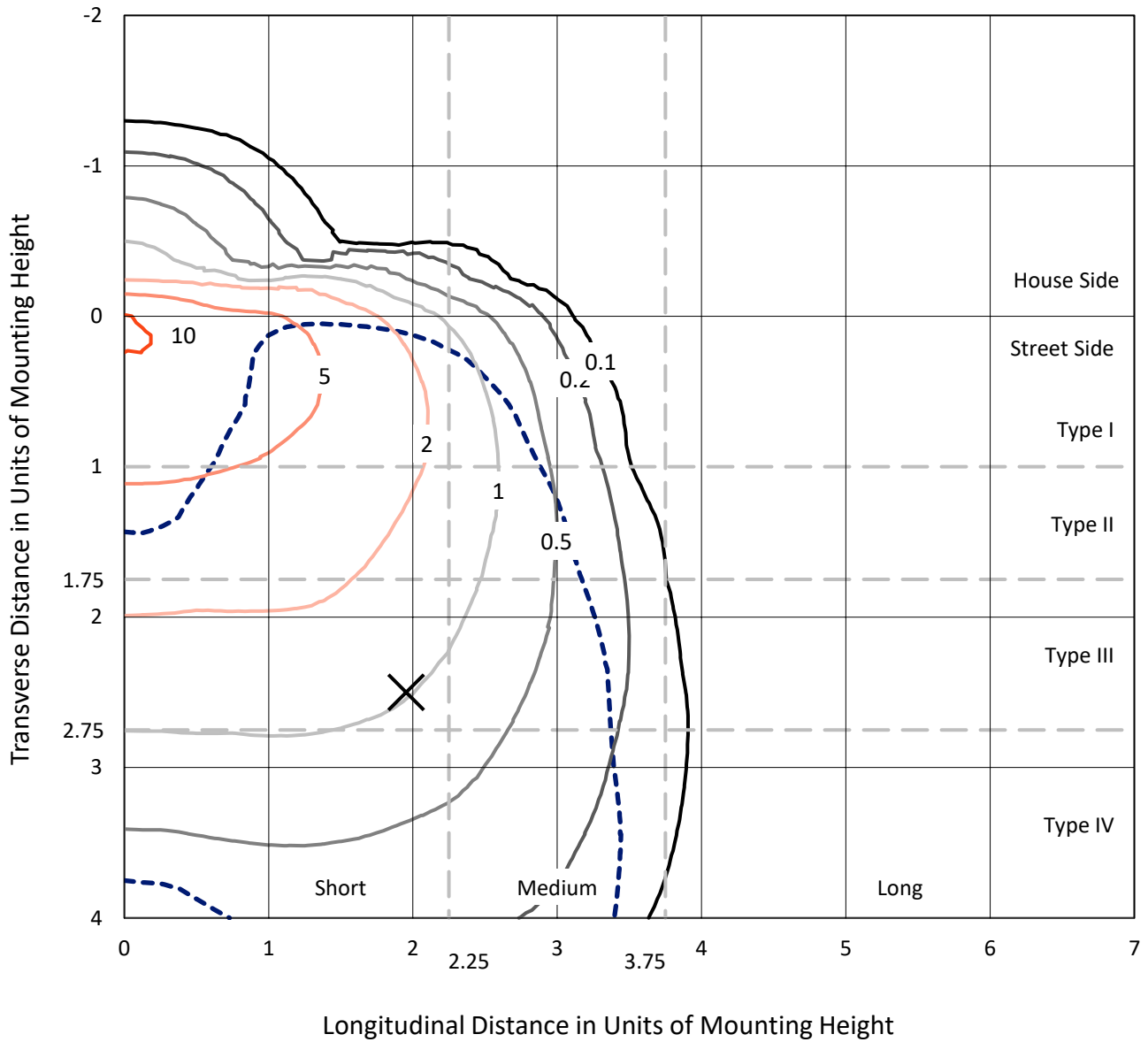
Input Watts (W): 67
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

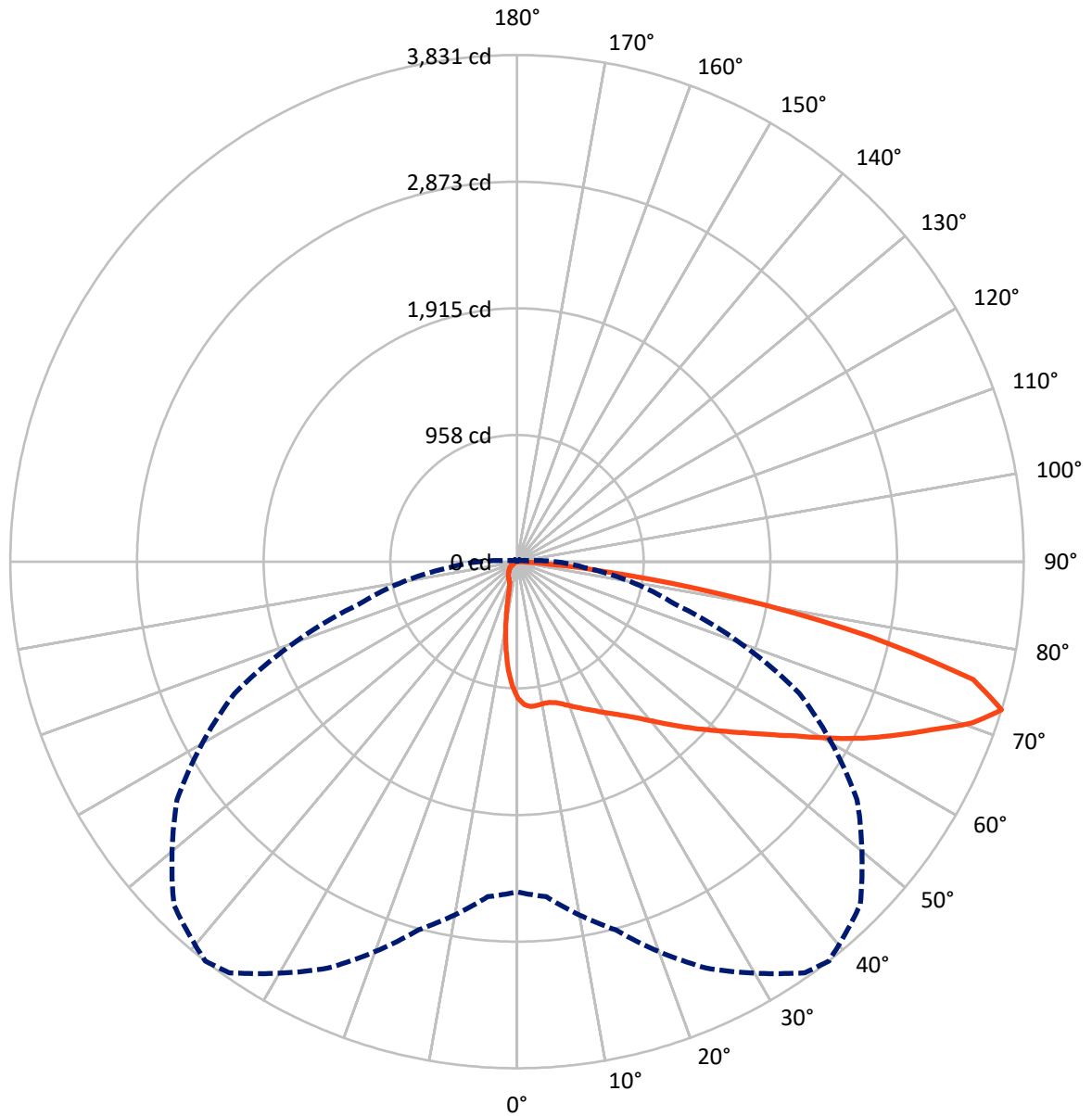
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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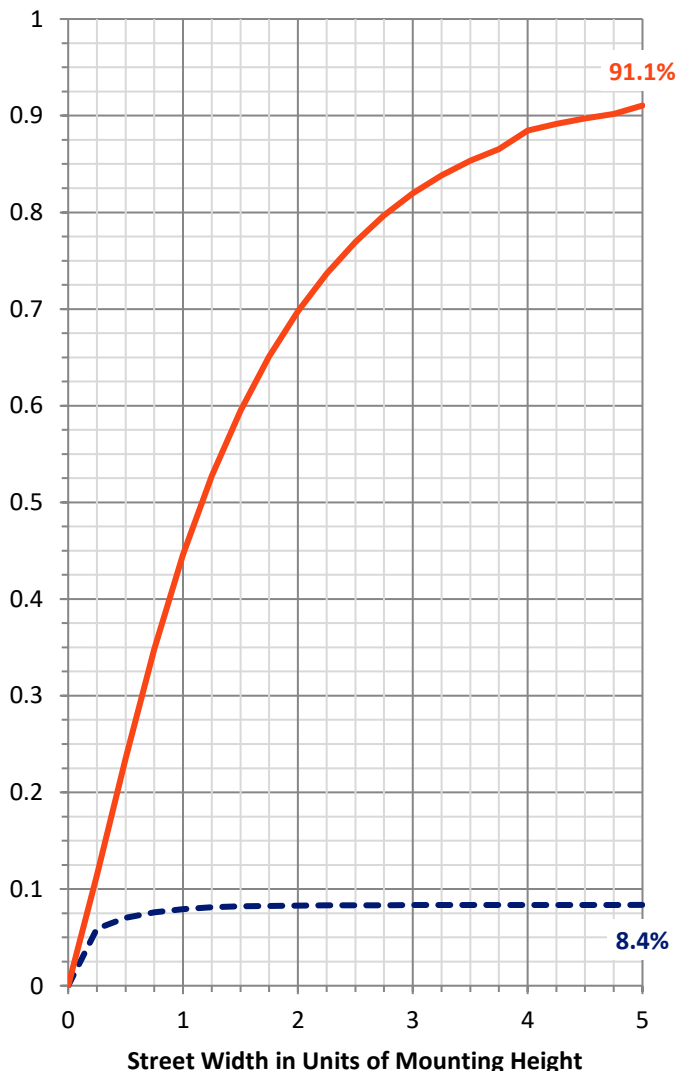
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 473.3 | 0.0 | 473.3 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 5150.7 | 0.0 | 5150.7 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 5624.0 | 0.0 | 5624.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 88.1 | 1.6 |
| 10°-20° | 215.5 | 3.8 |
| 20°-30° | 342.8 | 6.1 |
| 30°-40° | 515.3 | 9.2 |
| 40°-50° | 786.2 | 14.0 |
| 50°-60° | 1111.1 | 19.8 |
| 60°-70° | 1393.7 | 24.8 |
| 70°-80° | 1042.1 | 18.5 |
| 80°-90° | 129.2 | 2.3 |
| 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° | 5624.0 | 100.0 |
| 0°-180° | 5624.0 | 100.0 |

Coefficient of Utilization



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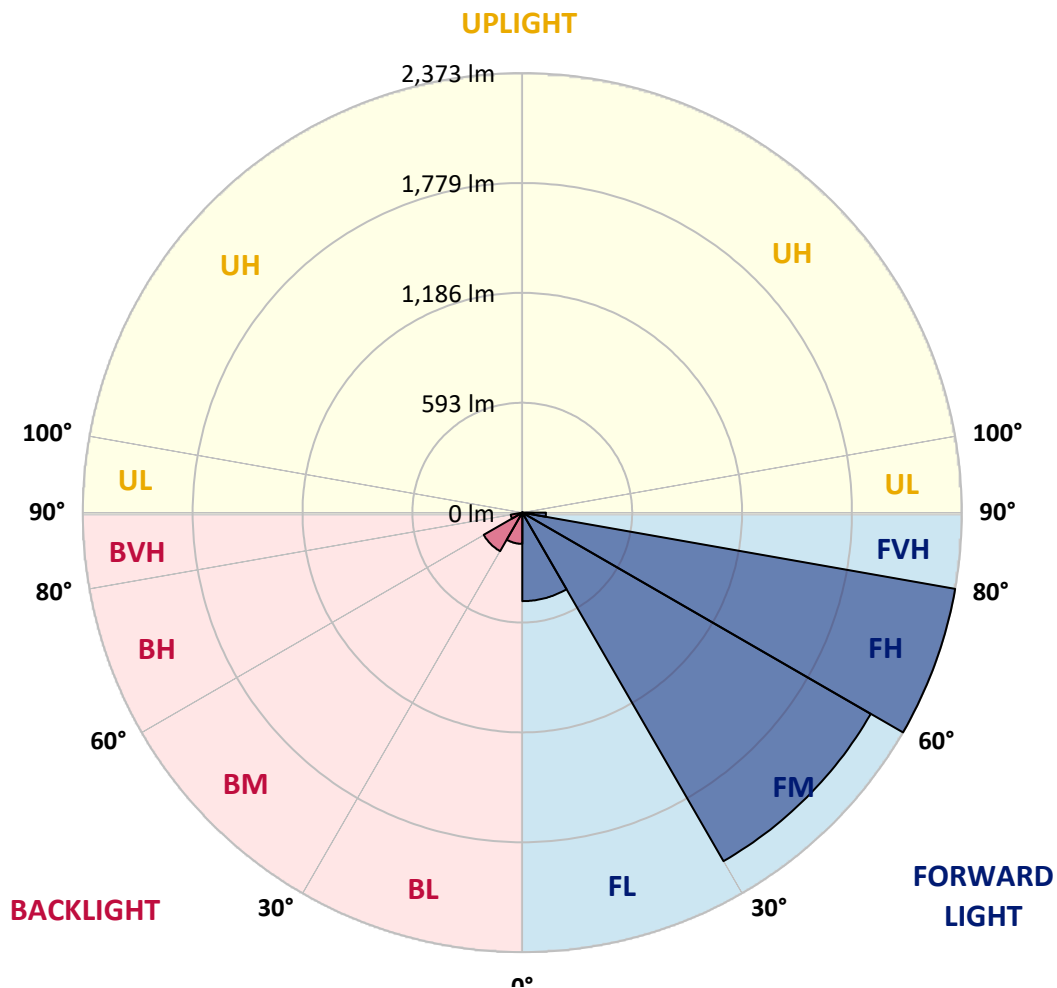
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 477.9 | 8.5 | | | |
| FM (30°-60°) | 2172.2 | 38.6 | | | |
| FH (60°-80°) | 2372.6 | 42.2 | | | G2/5000 |
| FVH (80°-90°) | 128.0 | 2.3 | | | G2/225 |
| BL (0°-30°) | 168.5 | 3.0 | B1/500 | | |
| BM (30°-60°) | 240.3 | 4.3 | B1/1000 | | |
| BH (60°-80°) | 63.2 | 1.1 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.2 | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 38° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1034.2 | 1034.2 | 1034.2 | 1034.2 | 1034.2 | 1034.2 | 1034.2 | 1034.2 | 1034.2 | 1034.2 | 1034.2 |
| 2.5° | 1097.8 | 1098.0 | 1095.4 | 1091.2 | 1085.9 | 1083.1 | 1078.4 | 1070.9 | 1063.0 | 1048.7 | 1033.3 |
| 5° | 1120.2 | 1120.2 | 1116.9 | 1111.3 | 1102.7 | 1100.1 | 1091.2 | 1079.3 | 1063.0 | 1039.8 | 1013.9 |
| 7.5° | 1117.9 | 1118.3 | 1113.9 | 1108.0 | 1099.4 | 1097.1 | 1086.3 | 1073.0 | 1052.7 | 1024.7 | 991.5 |
| 10° | 1105.7 | 1106.9 | 1103.4 | 1100.6 | 1092.6 | 1090.1 | 1080.0 | 1066.7 | 1046.4 | 1016.5 | 978.4 |
| 12.5° | 1093.3 | 1094.5 | 1095.7 | 1098.2 | 1093.3 | 1092.4 | 1084.5 | 1073.2 | 1053.9 | 1022.8 | 979.8 |
| 15° | 1085.4 | 1087.7 | 1096.1 | 1106.2 | 1107.3 | 1106.4 | 1101.3 | 1090.8 | 1071.1 | 1038.9 | 989.9 |
| 17.5° | 1085.4 | 1089.1 | 1106.6 | 1125.8 | 1132.6 | 1133.3 | 1128.8 | 1114.1 | 1090.8 | 1056.2 | 999.2 |
| 20° | 1094.5 | 1099.6 | 1127.0 | 1154.1 | 1165.3 | 1165.3 | 1156.6 | 1136.1 | 1108.7 | 1071.8 | 1005.5 |
| 22.5° | 1117.9 | 1124.6 | 1159.0 | 1190.3 | 1202.2 | 1199.6 | 1187.9 | 1158.0 | 1127.4 | 1089.6 | 1013.4 |
| 25° | 1163.9 | 1169.0 | 1204.7 | 1236.3 | 1243.5 | 1237.7 | 1223.0 | 1184.7 | 1151.3 | 1113.6 | 1027.9 |
| 27.5° | 1223.2 | 1223.9 | 1260.8 | 1287.4 | 1283.0 | 1279.0 | 1260.6 | 1218.1 | 1185.6 | 1148.0 | 1052.9 |
| 30° | 1288.4 | 1288.4 | 1320.8 | 1341.1 | 1327.6 | 1324.3 | 1305.9 | 1258.5 | 1229.5 | 1194.7 | 1088.4 |
| 32.5° | 1351.4 | 1354.2 | 1380.6 | 1393.5 | 1378.3 | 1375.0 | 1357.0 | 1309.6 | 1287.9 | 1265.9 | 1143.8 |
| 35° | 1412.4 | 1414.5 | 1439.5 | 1446.5 | 1432.0 | 1432.9 | 1420.1 | 1379.9 | 1371.7 | 1368.9 | 1227.2 |
| 37.5° | 1471.5 | 1471.9 | 1497.4 | 1501.8 | 1494.6 | 1502.5 | 1503.7 | 1468.2 | 1483.4 | 1506.0 | 1344.6 |
| 40° | 1525.4 | 1525.9 | 1551.1 | 1562.6 | 1574.9 | 1585.2 | 1594.3 | 1575.4 | 1625.6 | 1678.2 | 1484.6 |
| 42.5° | 1568.6 | 1573.5 | 1605.5 | 1627.3 | 1660.0 | 1679.6 | 1704.3 | 1703.4 | 1795.0 | 1873.9 | 1653.7 |
| 45° | 1606.7 | 1615.1 | 1659.7 | 1697.8 | 1753.9 | 1785.2 | 1823.9 | 1854.3 | 1985.6 | 2091.8 | 1824.9 |
| 47.5° | 1656.9 | 1664.9 | 1715.8 | 1778.1 | 1852.9 | 1894.0 | 1958.2 | 2023.9 | 2195.1 | 2305.8 | 1992.1 |
| 50° | 1727.7 | 1724.2 | 1774.4 | 1863.9 | 1959.9 | 2013.8 | 2105.4 | 2203.7 | 2402.9 | 2492.2 | 2090.4 |
| 52.5° | 1803.1 | 1801.7 | 1838.9 | 1957.1 | 2086.0 | 2149.1 | 2270.0 | 2389.6 | 2601.7 | 2620.6 | 2135.5 |
| 55° | 1896.6 | 1886.5 | 1917.8 | 2063.3 | 2235.7 | 2303.4 | 2445.9 | 2573.7 | 2760.1 | 2693.0 | 2158.2 |
| 57.5° | 1994.4 | 1977.8 | 2007.7 | 2181.8 | 2404.6 | 2484.7 | 2640.7 | 2753.1 | 2865.4 | 2742.5 | 2157.9 |
| 60° | 2095.6 | 2075.9 | 2111.4 | 2329.8 | 2614.3 | 2707.0 | 2851.9 | 2874.3 | 2963.7 | 2767.5 | 2142.0 |
| 62.5° | 2180.1 | 2168.4 | 2221.2 | 2488.2 | 2848.6 | 2939.7 | 3011.4 | 2984.5 | 3046.6 | 2786.9 | 2104.9 |
| 65° | 2269.6 | 2270.3 | 2355.5 | 2672.9 | 3097.6 | 3159.0 | 3165.1 | 3127.5 | 3116.0 | 2783.0 | 1979.2 |
| 67.5° | 2390.6 | 2401.8 | 2544.0 | 2923.8 | 3339.8 | 3387.2 | 3386.7 | 3282.3 | 3166.7 | 2625.1 | 1700.6 |
| 70° | 2518.6 | 2544.9 | 2761.2 | 3210.8 | 3604.2 | 3652.3 | 3627.5 | 3380.9 | 2981.7 | 2122.7 | 1203.6 |
| 72.5° | 2497.1 | 2542.8 | 2882.0 | 3391.9 | 3794.1 | 3830.7 | 3669.8 | 3138.7 | 2356.7 | 1233.7 | 512.4 |
| 75° | 1926.5 | 1979.5 | 2642.6 | 3212.5 | 3594.8 | 3561.9 | 3153.2 | 2442.4 | 1287.9 | 344.3 | 115.4 |
| 77.5° | 1017.7 | 1045.9 | 1745.7 | 2447.3 | 2803.0 | 2734.1 | 2221.2 | 1354.9 | 392.6 | 85.3 | 51.9 |
| 80° | 533.0 | 539.5 | 760.7 | 1388.6 | 1730.0 | 1730.5 | 1316.4 | 595.1 | 161.9 | 43.7 | 34.8 |
| 82.5° | 285.4 | 291.0 | 402.0 | 641.6 | 906.5 | 821.7 | 504.0 | 327.5 | 94.1 | 24.8 | 33.4 |
| 85° | 68.7 | 69.8 | 228.0 | 293.1 | 356.4 | 254.6 | 149.7 | 274.9 | 25.5 | 14.5 | 27.1 |
| 87.5° | 26.4 | 26.9 | 84.6 | 126.8 | 90.9 | 58.9 | 70.1 | 102.5 | 3.3 | 5.6 | 4.2 |
| 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° | 1034.2 | 1034.2 | 1034.2 | 1034.2 | 1034.2 | 1034.2 | 1034.2 | 1034.2 | 1034.2 | 1034.2 | 1034.2 |
| 2.5° | 1024.0 | 1017.9 | 1002.9 | 984.0 | 967.2 | 955.1 | 936.8 | 924.9 | 917.0 | 916.8 | 913.7 |
| 5° | 998.0 | 985.7 | 953.4 | 915.1 | 880.3 | 849.0 | 812.1 | 782.9 | 761.2 | 757.7 | 750.2 |
| 7.5° | 970.2 | 949.9 | 900.4 | 840.6 | 782.2 | 722.9 | 654.0 | 611.2 | 574.6 | 557.1 | 555.2 |
| 10° | 953.2 | 924.7 | 854.4 | 768.0 | 676.4 | 579.9 | 489.8 | 427.4 | 382.3 | 369.5 | 359.9 |
| 12.5° | 949.7 | 912.1 | 818.9 | 699.8 | 569.0 | 441.4 | 341.7 | 275.4 | 239.4 | 228.0 | 224.9 |
| 15° | 953.2 | 906.2 | 789.0 | 632.3 | 460.1 | 313.2 | 229.4 | 190.8 | 177.3 | 174.0 | 173.8 |
| 17.5° | 955.3 | 899.2 | 755.1 | 557.3 | 354.6 | 223.8 | 175.6 | 164.4 | 162.3 | 162.1 | 162.6 |
| 20° | 955.1 | 888.5 | 714.7 | 473.7 | 263.7 | 175.9 | 158.8 | 156.5 | 156.0 | 156.3 | 156.0 |
| 22.5° | 953.4 | 875.9 | 670.3 | 387.5 | 199.2 | 157.2 | 151.6 | 150.2 | 150.0 | 150.0 | 150.0 |
| 25° | 956.5 | 865.8 | 621.5 | 305.0 | 164.2 | 148.5 | 145.0 | 143.9 | 143.6 | 143.6 | 143.2 |
| 27.5° | 967.4 | 860.2 | 568.0 | 234.7 | 148.3 | 140.8 | 138.0 | 137.8 | 137.1 | 136.9 | 137.3 |
| 30° | 985.2 | 860.2 | 509.4 | 182.6 | 138.7 | 132.9 | 130.8 | 130.3 | 130.1 | 129.9 | 130.1 |
| 32.5° | 1016.5 | 866.8 | 445.4 | 151.8 | 129.6 | 124.0 | 122.6 | 123.3 | 122.6 | 122.6 | 122.6 |
| 35° | 1073.0 | 886.4 | 378.4 | 132.4 | 120.1 | 115.4 | 114.0 | 114.9 | 114.4 | 114.4 | 114.2 |
| 37.5° | 1155.5 | 922.8 | 310.9 | 120.8 | 111.6 | 106.7 | 104.9 | 106.3 | 105.8 | 105.8 | 105.6 |
| 40° | 1255.9 | 975.8 | 246.6 | 111.9 | 103.5 | 98.3 | 96.7 | 97.4 | 96.2 | 96.2 | 96.7 |
| 42.5° | 1379.9 | 1043.1 | 190.6 | 103.2 | 95.3 | 90.4 | 89.5 | 88.8 | 86.7 | 85.5 | 85.7 |
| 45° | 1517.7 | 1113.2 | 148.5 | 94.8 | 87.6 | 83.6 | 82.2 | 80.3 | 76.8 | 74.5 | 74.7 |
| 47.5° | 1640.8 | 1167.1 | 120.8 | 86.7 | 80.6 | 77.5 | 75.4 | 71.9 | 66.8 | 64.0 | 64.2 |
| 50° | 1705.5 | 1175.3 | 102.8 | 78.5 | 74.0 | 71.0 | 68.0 | 62.6 | 56.5 | 53.5 | 53.3 |
| 52.5° | 1722.1 | 1137.0 | 89.5 | 71.0 | 67.5 | 64.0 | 60.0 | 52.8 | 46.0 | 42.7 | 42.3 |
| 55° | 1728.2 | 1078.6 | 77.5 | 64.0 | 60.5 | 56.5 | 51.4 | 43.2 | 36.9 | 33.6 | 33.4 |
| 57.5° | 1708.1 | 991.5 | 68.2 | 57.7 | 53.5 | 48.6 | 42.3 | 34.6 | 28.5 | 25.9 | 25.9 |
| 60° | 1663.5 | 873.5 | 61.0 | 50.9 | 46.2 | 40.6 | 34.1 | 26.9 | 21.3 | 19.2 | 19.2 |
| 62.5° | 1574.5 | 720.8 | 54.2 | 43.9 | 39.5 | 33.6 | 27.6 | 20.3 | 14.9 | 13.8 | 14.0 |
| 65° | 1406.5 | 546.8 | 47.4 | 37.6 | 33.6 | 27.8 | 21.5 | 14.5 | 10.0 | 10.0 | 10.5 |
| 67.5° | 1147.0 | 379.8 | 40.4 | 32.0 | 29.0 | 22.7 | 16.3 | 10.0 | 7.0 | 7.9 | 8.9 |
| 70° | 759.3 | 213.0 | 34.6 | 26.4 | 24.8 | 18.0 | 12.1 | 6.8 | 5.6 | 7.5 | 9.1 |
| 72.5° | 286.6 | 82.9 | 29.0 | 21.3 | 21.5 | 13.8 | 8.6 | 5.1 | 5.1 | 8.2 | 10.7 |
| 75° | 79.9 | 40.6 | 20.8 | 15.6 | 16.8 | 10.0 | 6.3 | 4.4 | 4.9 | 9.3 | 12.6 |
| 77.5° | 46.9 | 29.9 | 13.5 | 9.1 | 11.4 | 7.0 | 4.2 | 3.5 | 4.2 | 7.9 | 12.1 |
| 80° | 37.8 | 15.9 | 7.9 | 4.7 | 6.3 | 4.0 | 2.8 | 2.1 | 1.2 | 3.0 | 6.3 |
| 82.5° | 37.8 | 9.6 | 3.7 | 3.3 | 3.3 | 2.1 | 1.4 | 0.9 | 0.2 | 0.0 | 1.6 |
| 85° | 25.5 | 4.0 | 2.3 | 2.1 | 1.6 | 0.7 | 0.5 | 0.2 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.2 | 1.6 | 0.9 | 0.5 | 0.2 | 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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