

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: P386175

Luminaire Tested: **GWC-SA1D-735-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P386175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
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-T3
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7785.7 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

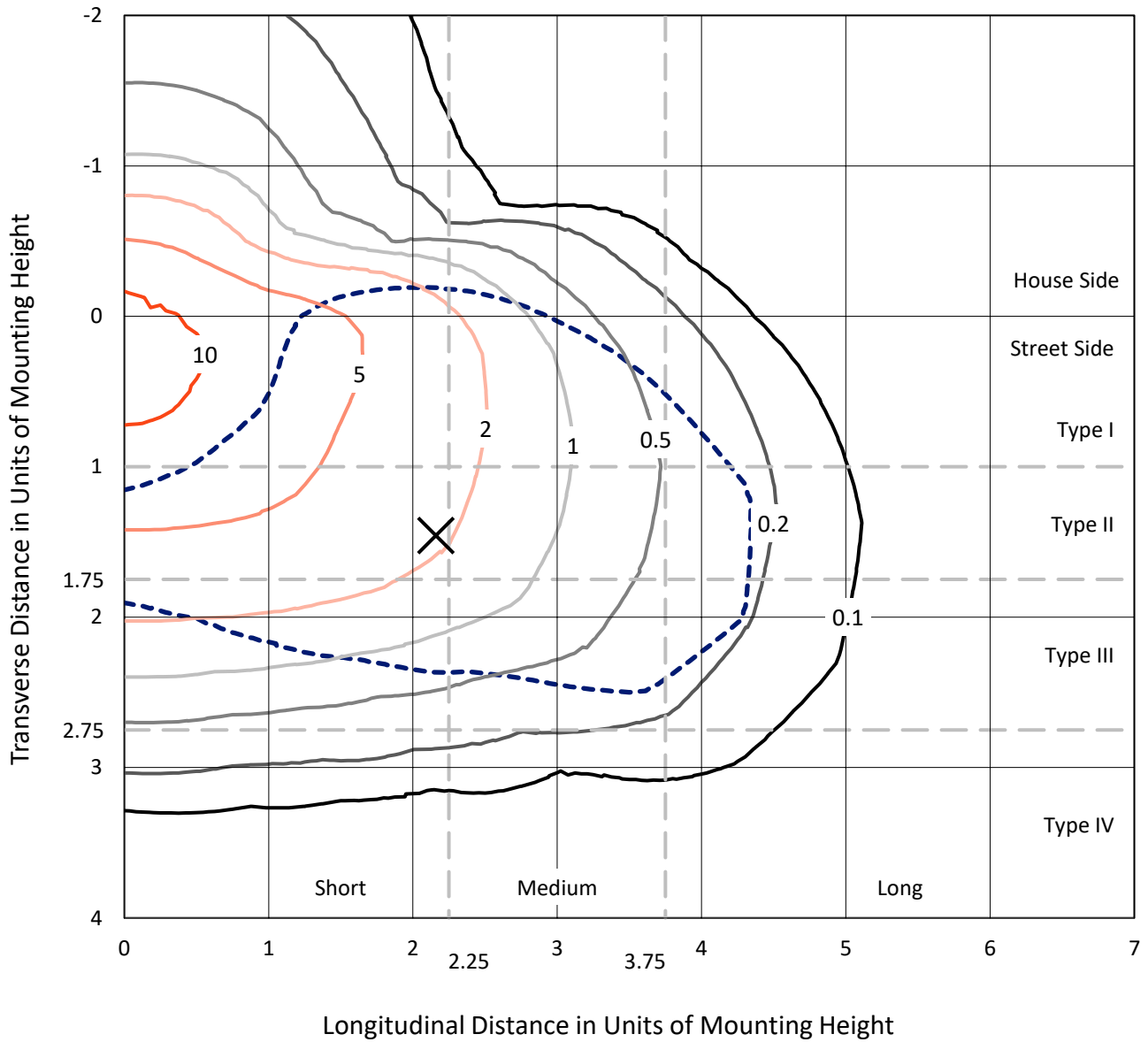
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

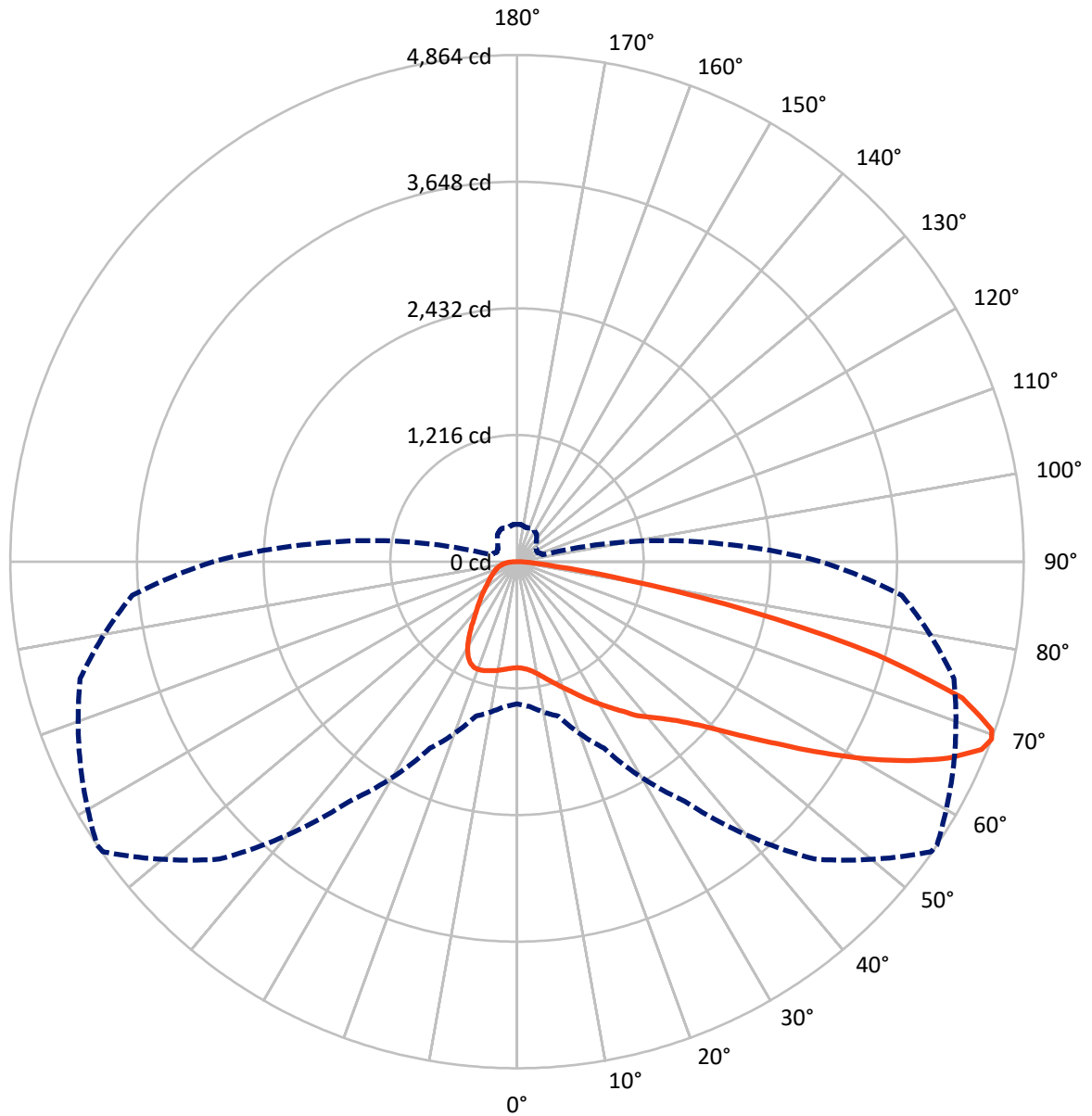
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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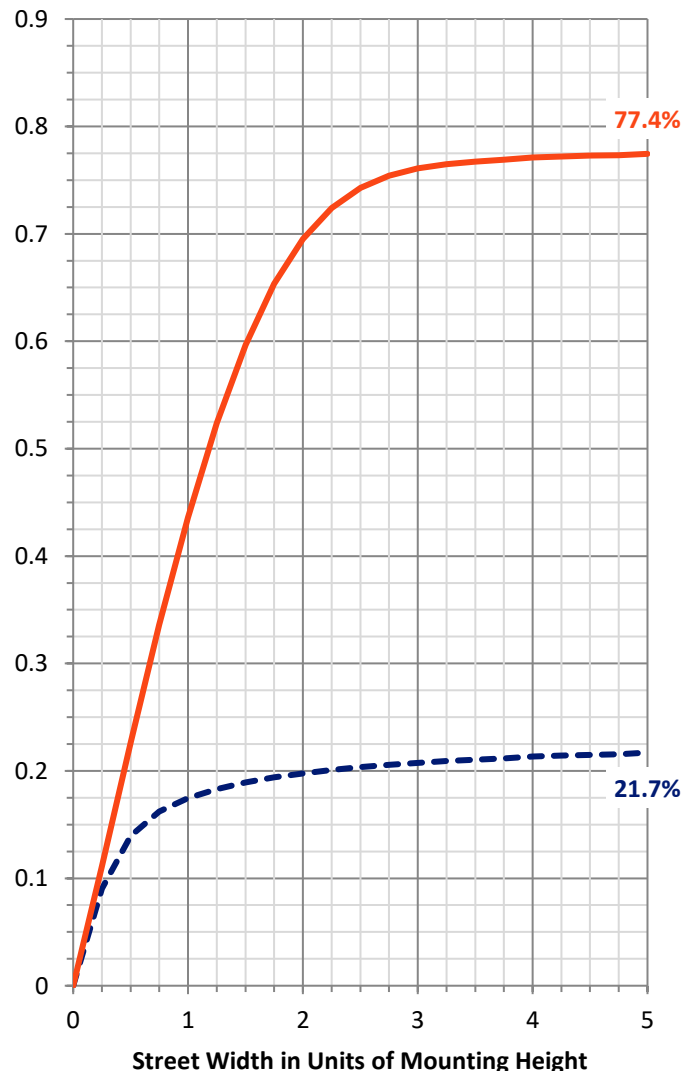
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1733.9 | 0.0 | 1733.9 |
| | % Fixture | 22.3 | 0.0 | 22.3 |
| Street Side | Lumens | 6051.8 | 0.0 | 6051.8 |
| | % Fixture | 77.7 | 0.0 | 77.7 |
| Total | Lumens | 7785.7 | 0.0 | 7785.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 100.0 | 1.3 |
| 10°-20° | 321.5 | 4.1 |
| 20°-30° | 561.2 | 7.2 |
| 30°-40° | 806.1 | 10.4 |
| 40°-50° | 1115.6 | 14.3 |
| 50°-60° | 1634.5 | 21.0 |
| 60°-70° | 1992.7 | 25.6 |
| 70°-80° | 1101.7 | 14.2 |
| 80°-90° | 152.6 | 2.0 |
| 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° | 7785.7 | 100.0 |
| 0°-180° | 7785.7 | 100.0 |



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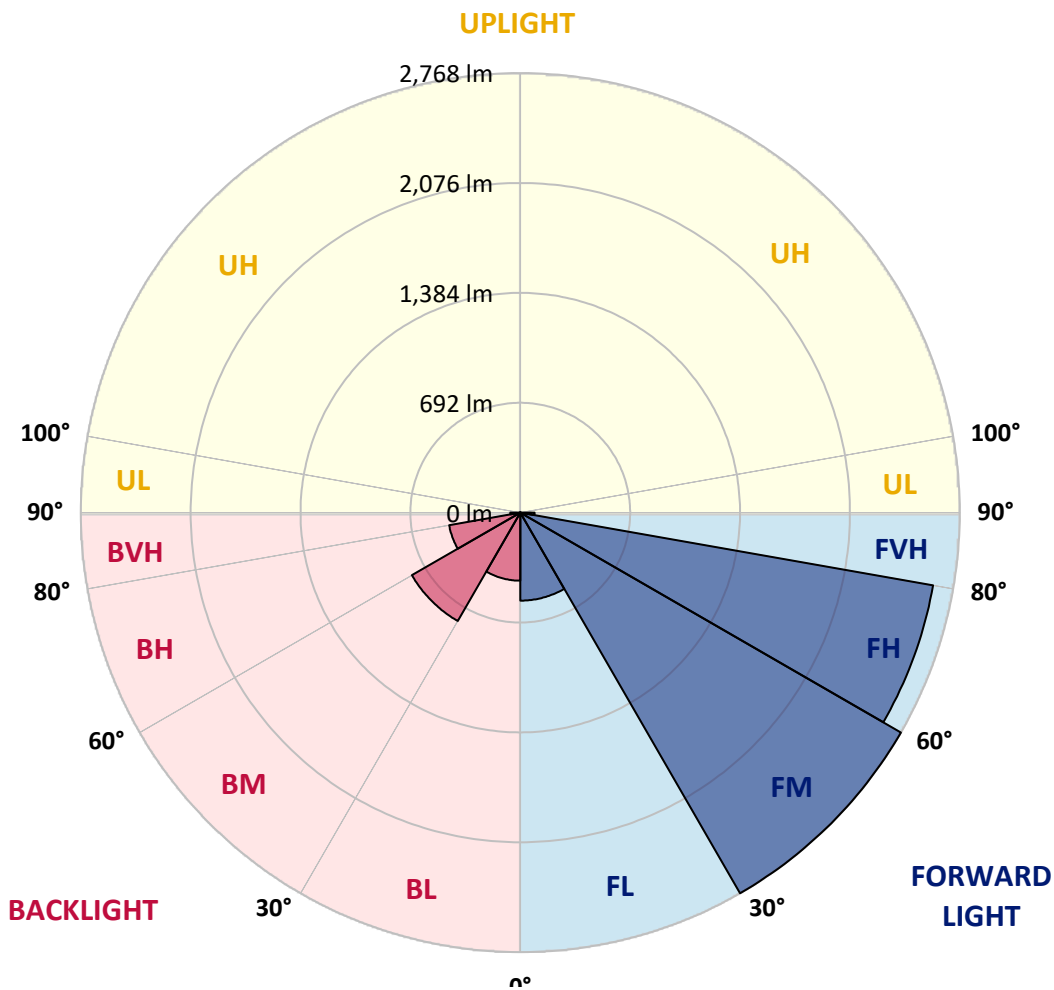
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 554.1 | 7.1 | | | |
| FM (30°-60°) | 2768.1 | 35.6 | | | |
| FH (60°-80°) | 2639.7 | 33.9 | | | G2/5000 |
| FVH (80°-90°) | 89.9 | 1.2 | | | G1/100 |
| BL (0°-30°) | 428.5 | 5.5 | B1/500 | | |
| BM (30°-60°) | 788.0 | 10.1 | B1/1000 | | |
| BH (60°-80°) | 454.7 | 5.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 62.7 | 0.8 | | | G1/100 |
| 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1017.8 | 1017.8 | 1017.8 | 1017.8 | 1017.8 | 1017.8 | 1017.8 | 1017.8 | 1017.8 | 1017.8 | 1017.8 |
| 2.5° | 1024.3 | 1025.3 | 1024.6 | 1026.8 | 1024.3 | 1025.9 | 1024.6 | 1024.6 | 1023.8 | 1021.3 | 1018.7 |
| 5° | 1040.4 | 1042.5 | 1041.2 | 1043.4 | 1040.4 | 1040.9 | 1038.5 | 1038.5 | 1036.1 | 1031.0 | 1025.6 |
| 7.5° | 1065.6 | 1068.0 | 1067.0 | 1069.1 | 1065.1 | 1065.1 | 1061.9 | 1061.6 | 1056.7 | 1048.5 | 1042.3 |
| 10° | 1095.6 | 1098.9 | 1097.8 | 1101.0 | 1097.8 | 1098.9 | 1095.6 | 1095.6 | 1089.2 | 1077.4 | 1069.6 |
| 12.5° | 1139.4 | 1143.4 | 1140.4 | 1140.1 | 1138.8 | 1141.0 | 1138.3 | 1137.8 | 1131.9 | 1115.7 | 1105.0 |
| 15° | 1197.8 | 1202.1 | 1195.9 | 1195.4 | 1187.9 | 1187.1 | 1187.1 | 1186.3 | 1182.5 | 1163.3 | 1145.5 |
| 17.5° | 1265.2 | 1266.5 | 1261.1 | 1252.6 | 1242.9 | 1236.7 | 1236.0 | 1238.0 | 1238.0 | 1215.6 | 1187.4 |
| 20° | 1331.1 | 1333.6 | 1329.2 | 1319.6 | 1307.3 | 1298.1 | 1291.7 | 1296.0 | 1295.7 | 1268.9 | 1228.9 |
| 22.5° | 1403.0 | 1408.6 | 1402.2 | 1389.8 | 1375.4 | 1365.2 | 1353.9 | 1357.7 | 1358.0 | 1324.9 | 1269.7 |
| 25° | 1496.1 | 1491.0 | 1487.0 | 1469.5 | 1448.9 | 1438.4 | 1428.0 | 1431.7 | 1430.6 | 1385.3 | 1311.9 |
| 27.5° | 1578.5 | 1579.5 | 1574.1 | 1555.6 | 1531.8 | 1508.7 | 1508.2 | 1510.5 | 1506.5 | 1448.1 | 1351.5 |
| 30° | 1674.2 | 1674.8 | 1667.2 | 1650.6 | 1624.6 | 1594.8 | 1587.9 | 1591.8 | 1583.3 | 1507.6 | 1393.4 |
| 32.5° | 1769.3 | 1772.1 | 1763.7 | 1743.6 | 1722.8 | 1686.5 | 1672.6 | 1675.2 | 1653.8 | 1568.5 | 1436.5 |
| 35° | 1852.8 | 1856.5 | 1853.9 | 1840.5 | 1817.6 | 1786.5 | 1769.9 | 1768.3 | 1741.7 | 1643.1 | 1493.6 |
| 37.5° | 1937.8 | 1941.4 | 1938.3 | 1927.1 | 1918.0 | 1885.0 | 1876.2 | 1876.2 | 1830.0 | 1719.3 | 1566.3 |
| 40° | 2025.2 | 2030.6 | 2027.1 | 2011.6 | 2003.8 | 1988.8 | 1967.6 | 1962.5 | 1912.6 | 1810.7 | 1684.9 |
| 42.5° | 2106.5 | 2113.5 | 2127.4 | 2118.3 | 2102.6 | 2104.6 | 2062.0 | 2059.3 | 2022.9 | 1945.9 | 1833.8 |
| 45° | 2221.9 | 2232.1 | 2255.7 | 2248.7 | 2245.4 | 2233.7 | 2183.0 | 2180.5 | 2166.6 | 2127.7 | 2018.6 |
| 47.5° | 2347.6 | 2361.6 | 2404.3 | 2405.6 | 2440.2 | 2417.9 | 2349.0 | 2340.7 | 2343.9 | 2345.5 | 2244.1 |
| 50° | 2463.6 | 2478.8 | 2548.9 | 2581.8 | 2663.4 | 2668.2 | 2558.0 | 2550.5 | 2563.0 | 2600.1 | 2507.0 |
| 52.5° | 2556.1 | 2575.3 | 2662.8 | 2764.7 | 2904.4 | 2944.2 | 2815.2 | 2809.5 | 2818.9 | 2882.7 | 2804.2 |
| 55° | 2623.9 | 2644.9 | 2740.0 | 2925.6 | 3148.8 | 3218.8 | 3111.3 | 3105.9 | 3111.8 | 3193.1 | 3127.3 |
| 57.5° | 2639.7 | 2644.9 | 2783.0 | 3034.1 | 3355.0 | 3523.2 | 3473.6 | 3462.9 | 3434.0 | 3504.7 | 3484.0 |
| 60° | 2565.5 | 2585.9 | 2747.5 | 3072.1 | 3514.6 | 3823.3 | 3852.4 | 3838.9 | 3757.7 | 3815.5 | 3798.9 |
| 62.5° | 2414.7 | 2451.2 | 2615.4 | 3014.1 | 3577.1 | 4068.5 | 4223.8 | 4207.7 | 4067.7 | 4105.2 | 4025.3 |
| 65° | 2168.5 | 2184.1 | 2356.5 | 2814.3 | 3497.7 | 4225.4 | 4555.0 | 4546.9 | 4370.8 | 4312.0 | 4067.2 |
| 67.5° | 1728.1 | 1757.3 | 1903.8 | 2396.8 | 3172.9 | 4206.9 | 4811.2 | 4810.4 | 4568.7 | 4388.8 | 3918.9 |
| 69° | 1365.2 | 1395.5 | 1535.0 | 1974.3 | 2807.7 | 4037.7 | 4854.1 | 4863.5 | 4624.5 | 4342.1 | 3706.9 |
| 70° | 1088.4 | 1123.5 | 1219.3 | 1662.9 | 2483.4 | 3814.5 | 4818.4 | 4835.3 | 4613.7 | 4265.1 | 3511.5 |
| 72.5° | 463.2 | 491.6 | 559.8 | 857.2 | 1513.6 | 2848.4 | 4405.7 | 4469.4 | 4365.2 | 3903.6 | 2902.1 |
| 75° | 202.3 | 211.1 | 241.9 | 349.5 | 671.9 | 1550.3 | 3451.3 | 3569.3 | 3732.4 | 3299.5 | 2161.8 |
| 77.5° | 148.0 | 151.8 | 168.7 | 205.2 | 301.5 | 585.5 | 2219.4 | 2288.1 | 2691.7 | 2401.0 | 1326.0 |
| 80° | 114.5 | 117.2 | 130.4 | 150.8 | 196.9 | 236.8 | 1012.2 | 1071.2 | 1513.6 | 1233.2 | 552.3 |
| 82.5° | 91.2 | 93.1 | 102.2 | 111.0 | 136.0 | 143.5 | 336.1 | 372.8 | 558.7 | 340.6 | 146.2 |
| 85° | 84.7 | 86.9 | 90.1 | 81.0 | 87.2 | 84.3 | 145.3 | 152.1 | 168.7 | 133.9 | 61.2 |
| 87.5° | 38.3 | 45.4 | 89.3 | 63.0 | 46.4 | 37.0 | 59.6 | 62.2 | 70.0 | 70.3 | 27.1 |
| 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° | 1017.8 | 1017.8 | 1017.8 | 1017.8 | 1017.8 | 1017.8 | 1017.8 | 1017.8 | 1017.8 | 1017.8 | 1017.8 |
| 2.5° | 1020.3 | 1019.4 | 1020.8 | 1017.6 | 1021.6 | 1021.3 | 1020.0 | 1020.6 | 1023.2 | 1023.0 | 1023.2 |
| 5° | 1026.5 | 1025.9 | 1027.5 | 1025.1 | 1030.0 | 1031.5 | 1031.8 | 1034.2 | 1037.2 | 1037.9 | 1037.9 |
| 7.5° | 1042.0 | 1042.0 | 1042.8 | 1039.6 | 1042.8 | 1042.5 | 1041.2 | 1043.6 | 1046.6 | 1046.9 | 1046.6 |
| 10° | 1068.8 | 1069.1 | 1067.7 | 1059.4 | 1056.7 | 1049.5 | 1042.8 | 1043.1 | 1046.9 | 1049.8 | 1050.6 |
| 12.5° | 1102.7 | 1101.5 | 1095.6 | 1080.4 | 1069.1 | 1054.4 | 1047.3 | 1047.1 | 1050.8 | 1053.2 | 1054.1 |
| 15° | 1141.3 | 1138.3 | 1123.0 | 1098.1 | 1078.2 | 1063.8 | 1052.5 | 1049.8 | 1047.6 | 1045.0 | 1045.3 |
| 17.5° | 1177.7 | 1171.0 | 1145.5 | 1110.9 | 1090.0 | 1070.7 | 1049.0 | 1031.5 | 1019.4 | 1012.5 | 1010.3 |
| 20° | 1214.7 | 1201.6 | 1164.8 | 1123.0 | 1096.5 | 1061.3 | 1019.4 | 984.1 | 962.0 | 951.9 | 950.0 |
| 22.5° | 1248.5 | 1227.3 | 1182.8 | 1135.6 | 1091.4 | 1029.7 | 963.9 | 912.4 | 881.9 | 868.2 | 869.3 |
| 25° | 1281.5 | 1252.0 | 1201.6 | 1144.5 | 1065.6 | 973.9 | 886.7 | 823.4 | 788.0 | 772.7 | 772.2 |
| 27.5° | 1310.5 | 1276.9 | 1222.0 | 1137.2 | 1017.6 | 894.5 | 795.3 | 733.6 | 704.1 | 690.9 | 688.8 |
| 30° | 1343.7 | 1308.3 | 1249.0 | 1109.6 | 947.3 | 802.7 | 706.0 | 662.5 | 641.6 | 628.5 | 626.0 |
| 32.5° | 1384.2 | 1350.9 | 1271.3 | 1059.4 | 857.5 | 707.0 | 636.2 | 605.9 | 586.8 | 572.1 | 569.4 |
| 35° | 1443.3 | 1407.3 | 1276.9 | 987.6 | 758.7 | 631.4 | 585.0 | 553.9 | 528.1 | 509.1 | 507.2 |
| 37.5° | 1517.3 | 1477.9 | 1264.0 | 894.5 | 663.0 | 582.3 | 542.3 | 504.0 | 470.4 | 443.6 | 439.4 |
| 40° | 1624.0 | 1564.5 | 1228.4 | 787.2 | 592.5 | 544.5 | 500.8 | 457.0 | 415.5 | 384.1 | 377.9 |
| 42.5° | 1752.3 | 1666.1 | 1173.7 | 680.5 | 540.7 | 506.1 | 459.5 | 405.3 | 365.6 | 343.3 | 340.1 |
| 45° | 1915.3 | 1771.8 | 1097.8 | 587.1 | 489.8 | 467.7 | 414.9 | 365.0 | 340.3 | 324.0 | 321.3 |
| 47.5° | 2101.4 | 1890.3 | 1018.1 | 511.2 | 446.6 | 431.8 | 379.2 | 347.1 | 327.5 | 314.6 | 312.2 |
| 50° | 2330.3 | 2024.2 | 933.7 | 449.0 | 403.1 | 388.6 | 362.3 | 337.1 | 321.6 | 311.7 | 309.2 |
| 52.5° | 2588.2 | 2175.2 | 872.8 | 399.9 | 367.2 | 356.7 | 353.5 | 331.8 | 319.2 | 311.7 | 309.2 |
| 55° | 2866.1 | 2328.9 | 807.0 | 358.6 | 336.1 | 339.0 | 347.6 | 332.4 | 323.7 | 314.6 | 311.1 |
| 57.5° | 3144.2 | 2487.7 | 733.9 | 323.7 | 311.4 | 325.9 | 343.5 | 333.4 | 326.2 | 317.3 | 314.0 |
| 60° | 3364.2 | 2588.2 | 620.4 | 294.5 | 291.8 | 311.4 | 334.0 | 325.3 | 315.9 | 316.2 | 315.7 |
| 62.5° | 3466.9 | 2582.9 | 495.2 | 268.5 | 272.2 | 291.8 | 318.4 | 312.7 | 304.9 | 315.4 | 316.2 |
| 65° | 3409.2 | 2454.2 | 385.4 | 244.9 | 251.3 | 271.4 | 302.3 | 306.5 | 309.2 | 329.4 | 332.1 |
| 67.5° | 3167.4 | 2203.6 | 298.5 | 224.2 | 232.3 | 257.5 | 303.9 | 334.0 | 337.4 | 358.6 | 358.3 |
| 69° | 2917.1 | 1968.7 | 259.4 | 213.5 | 222.9 | 261.0 | 324.8 | 351.3 | 338.2 | 360.7 | 357.5 |
| 70° | 2707.3 | 1782.8 | 238.4 | 206.3 | 218.6 | 267.2 | 338.7 | 351.1 | 334.2 | 353.5 | 348.1 |
| 72.5° | 2085.1 | 1282.6 | 202.3 | 192.9 | 204.1 | 255.6 | 342.8 | 343.3 | 324.8 | 328.6 | 319.4 |
| 75° | 1430.1 | 810.5 | 176.5 | 174.6 | 182.1 | 230.4 | 329.9 | 328.0 | 300.4 | 295.1 | 287.5 |
| 77.5° | 788.5 | 411.7 | 149.9 | 157.2 | 162.2 | 204.1 | 299.9 | 297.2 | 274.4 | 263.1 | 260.4 |
| 80° | 304.2 | 180.3 | 126.6 | 139.8 | 143.0 | 176.8 | 262.8 | 260.4 | 241.4 | 226.9 | 222.9 |
| 82.5° | 114.8 | 94.4 | 104.6 | 121.0 | 119.9 | 145.9 | 222.6 | 221.3 | 202.7 | 181.6 | 175.1 |
| 85° | 53.1 | 56.6 | 82.9 | 99.8 | 92.0 | 108.1 | 178.1 | 180.6 | 158.0 | 132.7 | 132.7 |
| 87.5° | 22.5 | 31.7 | 58.7 | 75.3 | 62.0 | 73.0 | 130.6 | 124.8 | 114.5 | 79.4 | 74.6 |
| 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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