

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: P386187

Luminaire Tested: **GWC-SA1D-750-U-RW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P386187  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-SA1D-750-U-RW  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8471 lumens  
Efficiency: N/A  
Efficacy: 126.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

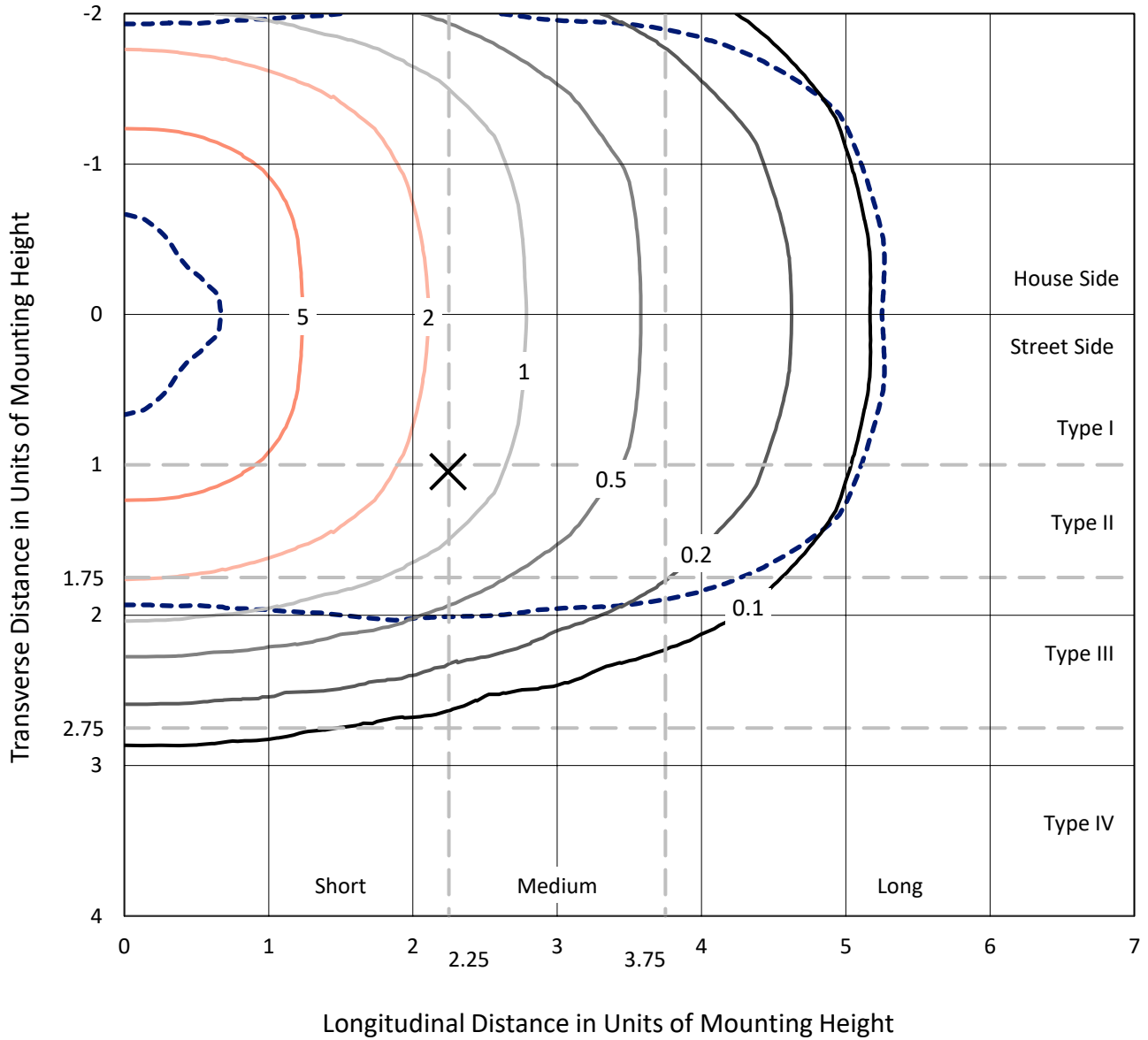
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

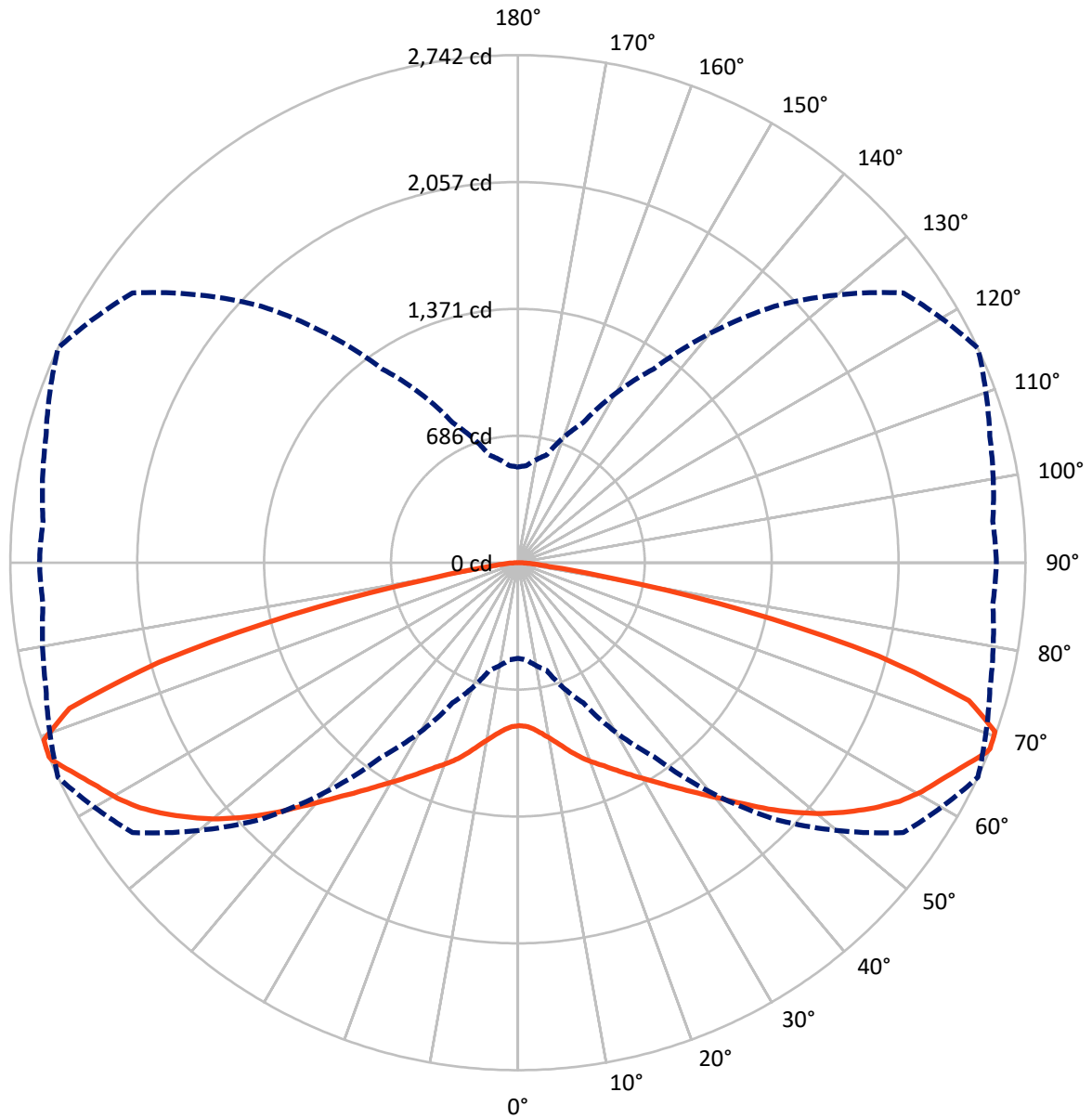
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 68-Deg Vertical

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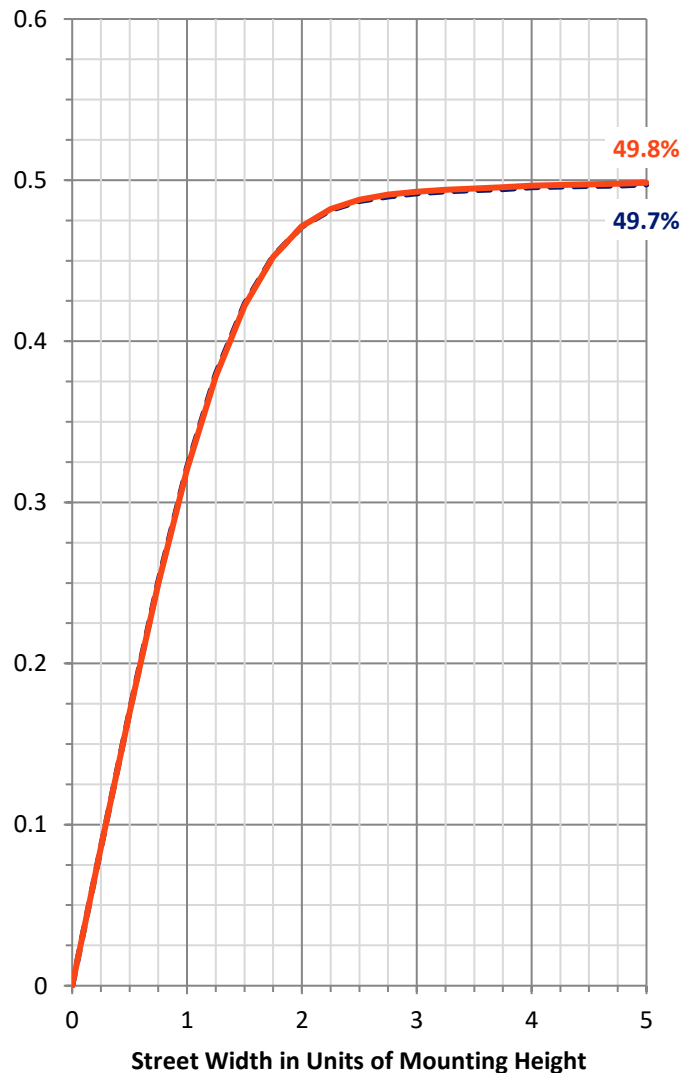
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4235.5   | 0.0    | 4235.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4235.5   | 0.0    | 4235.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 8471.0   | 0.0    | 8471.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 86.2   | 1.0       |
| 10°-20°   | 288.8  | 3.4       |
| 20°-30°   | 563.0  | 6.6       |
| 30°-40°   | 945.8  | 11.2      |
| 40°-50°   | 1490.2 | 17.6      |
| 50°-60°   | 1992.9 | 23.5      |
| 60°-70°   | 1937.4 | 22.9      |
| 70°-80°   | 1059.1 | 12.5      |
| 80°-90°   | 107.7  | 1.3       |
| 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°    | 8471.0 | 100.0     |
| 0°-180°   | 8471.0 | 100.0     |

**Coefficient of Utilization**



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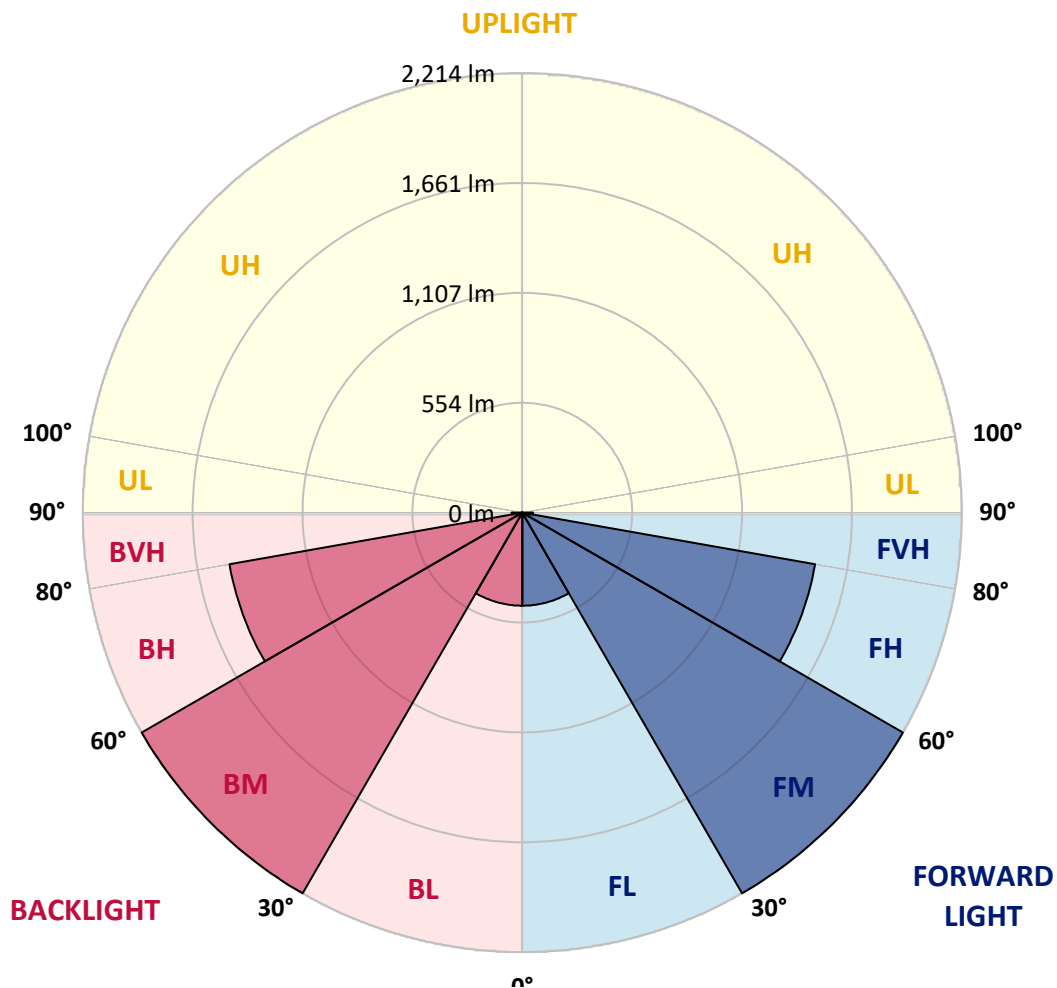
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 469.0  | 5.5       |                         |      |         |
| FM (30°-60°)   | 2214.5 | 26.1      |                         |      |         |
| FH (60°-80°)   | 1498.2 | 17.7      |                         |      | G1/1800 |
| FVH (80°-90°)  | 53.9   | 0.6       |                         |      | G1/100  |
| BL (0°-30°)    | 469.0  | 5.5       | B1/500                  |      |         |
| BM (30°-60°)   | 2214.5 | 26.1      | B2/2500                 |      |         |
| BH (60°-80°)   | 1498.2 | 17.7      | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 53.9   | 0.6       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 880.8  | 880.8  | 880.8  | 880.8  | 880.8  | 880.8  | 880.8  | 880.8  | 880.8  | 880.8  | 880.8  |
| 2.5°  | 874.5  | 874.8  | 876.2  | 877.9  | 879.4  | 883.1  | 883.9  | 885.3  | 885.9  | 887.3  | 887.3  |
| 5°    | 866.9  | 867.4  | 870.8  | 875.4  | 880.5  | 889.6  | 896.1  | 903.5  | 907.2  | 911.2  | 910.9  |
| 7.5°  | 866.0  | 867.4  | 872.3  | 879.6  | 888.2  | 903.2  | 916.9  | 931.6  | 941.6  | 950.7  | 950.1  |
| 10°   | 874.8  | 877.1  | 883.9  | 895.0  | 907.8  | 926.5  | 946.7  | 966.6  | 983.9  | 997.8  | 998.4  |
| 12.5° | 888.2  | 891.0  | 901.8  | 918.6  | 937.9  | 962.0  | 985.9  | 1008.3 | 1032.2 | 1052.9 | 1054.6 |
| 15°   | 905.8  | 909.5  | 925.7  | 950.7  | 980.2  | 1008.9 | 1034.4 | 1057.5 | 1085.0 | 1113.7 | 1116.5 |
| 17.5° | 931.9  | 937.0  | 958.3  | 992.1  | 1031.0 | 1062.6 | 1089.3 | 1106.6 | 1129.6 | 1159.1 | 1164.5 |
| 20°   | 971.7  | 978.2  | 1005.2 | 1045.5 | 1093.0 | 1125.9 | 1146.4 | 1150.0 | 1161.4 | 1187.8 | 1194.1 |
| 22.5° | 1023.4 | 1029.0 | 1059.2 | 1107.2 | 1160.3 | 1196.1 | 1206.9 | 1192.1 | 1190.9 | 1212.3 | 1218.2 |
| 25°   | 1081.0 | 1086.1 | 1121.1 | 1175.0 | 1232.1 | 1271.6 | 1271.3 | 1242.6 | 1222.8 | 1239.2 | 1245.5 |
| 27.5° | 1145.8 | 1153.7 | 1187.3 | 1244.1 | 1305.1 | 1344.0 | 1341.8 | 1297.5 | 1259.7 | 1263.9 | 1269.3 |
| 30°   | 1220.2 | 1229.0 | 1261.7 | 1319.3 | 1380.4 | 1418.5 | 1415.6 | 1357.1 | 1300.3 | 1288.9 | 1292.9 |
| 32.5° | 1312.5 | 1323.0 | 1354.0 | 1410.8 | 1464.8 | 1499.1 | 1490.9 | 1421.9 | 1349.2 | 1324.4 | 1328.1 |
| 35°   | 1423.6 | 1429.8 | 1462.5 | 1518.4 | 1562.2 | 1585.8 | 1568.4 | 1496.9 | 1411.1 | 1381.2 | 1381.2 |
| 37.5° | 1536.0 | 1540.9 | 1577.5 | 1631.8 | 1674.1 | 1686.6 | 1652.8 | 1578.9 | 1492.0 | 1449.7 | 1450.6 |
| 40°   | 1644.0 | 1657.0 | 1698.2 | 1753.9 | 1795.7 | 1799.1 | 1754.2 | 1672.7 | 1582.1 | 1538.3 | 1543.4 |
| 42.5° | 1756.7 | 1769.5 | 1818.7 | 1881.7 | 1918.6 | 1924.3 | 1871.8 | 1777.8 | 1683.7 | 1648.2 | 1653.9 |
| 45°   | 1857.3 | 1867.5 | 1924.3 | 1997.6 | 2043.6 | 2058.4 | 1996.2 | 1898.2 | 1793.7 | 1759.0 | 1760.4 |
| 47.5° | 1927.4 | 1940.8 | 2003.3 | 2089.6 | 2156.7 | 2179.4 | 2118.3 | 2015.5 | 1901.9 | 1859.8 | 1863.5 |
| 50°   | 1991.1 | 1998.2 | 2061.5 | 2155.8 | 2241.0 | 2287.9 | 2235.6 | 2131.4 | 2011.2 | 1966.6 | 1970.6 |
| 52.5° | 2026.6 | 2035.7 | 2097.0 | 2195.3 | 2296.1 | 2371.7 | 2339.9 | 2235.6 | 2116.9 | 2073.4 | 2078.3 |
| 55°   | 2001.9 | 2008.7 | 2082.2 | 2204.1 | 2330.2 | 2423.4 | 2428.2 | 2337.6 | 2220.6 | 2182.5 | 2196.1 |
| 57.5° | 1889.4 | 1897.9 | 1987.7 | 2147.3 | 2334.5 | 2458.3 | 2494.7 | 2432.2 | 2317.4 | 2286.5 | 2294.4 |
| 60°   | 1713.6 | 1719.0 | 1814.7 | 1994.2 | 2251.5 | 2472.8 | 2537.0 | 2509.4 | 2412.3 | 2381.3 | 2392.1 |
| 62.5° | 1400.3 | 1408.2 | 1522.7 | 1763.3 | 2076.3 | 2429.9 | 2577.9 | 2573.3 | 2500.6 | 2472.2 | 2481.9 |
| 65°   | 957.2  | 971.1  | 1097.8 | 1402.0 | 1806.2 | 2298.7 | 2615.1 | 2647.8 | 2578.7 | 2542.9 | 2555.7 |
| 67.5° | 578.0  | 588.2  | 680.0  | 925.7  | 1382.1 | 2034.0 | 2576.7 | 2732.4 | 2633.8 | 2576.2 | 2586.7 |
| 68°   | 516.7  | 526.0  | 602.7  | 835.3  | 1278.4 | 1959.3 | 2541.8 | 2742.0 | 2639.8 | 2575.6 | 2585.0 |
| 70°   | 312.2  | 318.4  | 369.8  | 516.4  | 852.4  | 1554.2 | 2303.5 | 2734.1 | 2677.9 | 2583.6 | 2589.0 |
| 72.5° | 203.4  | 205.4  | 213.9  | 265.0  | 435.4  | 869.1  | 1728.9 | 2547.8 | 2734.9 | 2629.9 | 2629.0 |
| 75°   | 169.0  | 167.9  | 168.7  | 174.7  | 214.7  | 381.2  | 1010.3 | 2012.7 | 2607.1 | 2556.9 | 2539.0 |
| 77.5° | 142.9  | 142.0  | 141.7  | 142.0  | 143.7  | 184.1  | 438.5  | 1253.7 | 1995.0 | 2261.8 | 2277.7 |
| 80°   | 115.6  | 114.5  | 118.2  | 116.5  | 111.3  | 114.5  | 183.8  | 521.5  | 940.4  | 1011.7 | 948.1  |
| 82.5° | 84.1   | 79.8   | 95.7   | 91.2   | 86.9   | 80.7   | 101.4  | 168.4  | 224.4  | 153.9  | 108.2  |
| 85°   | 64.8   | 60.2   | 72.7   | 69.9   | 59.6   | 41.2   | 60.2   | 82.4   | 90.9   | 52.0   | 40.9   |
| 87.5° | 26.4   | 27.8   | 52.5   | 41.5   | 34.9   | 19.9   | 24.7   | 32.9   | 44.3   | 22.2   | 17.0   |
| 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



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