

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: P386743

Luminaire Tested: **GWC-SA2C-722-U-5NQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P386743  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-SA2C-722-U-5NQ  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 2200K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11193 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

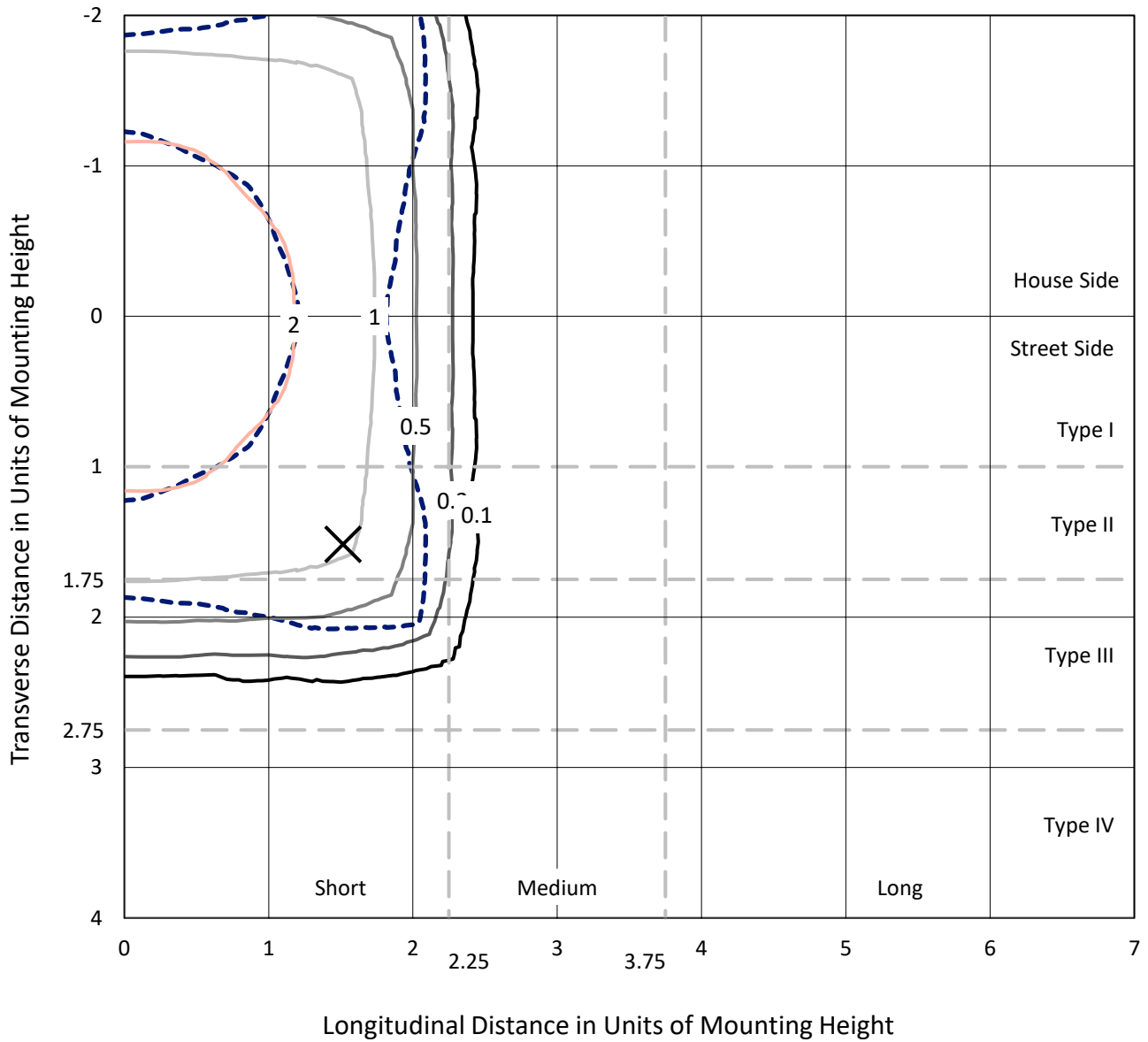
Input Watts (W): 111  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

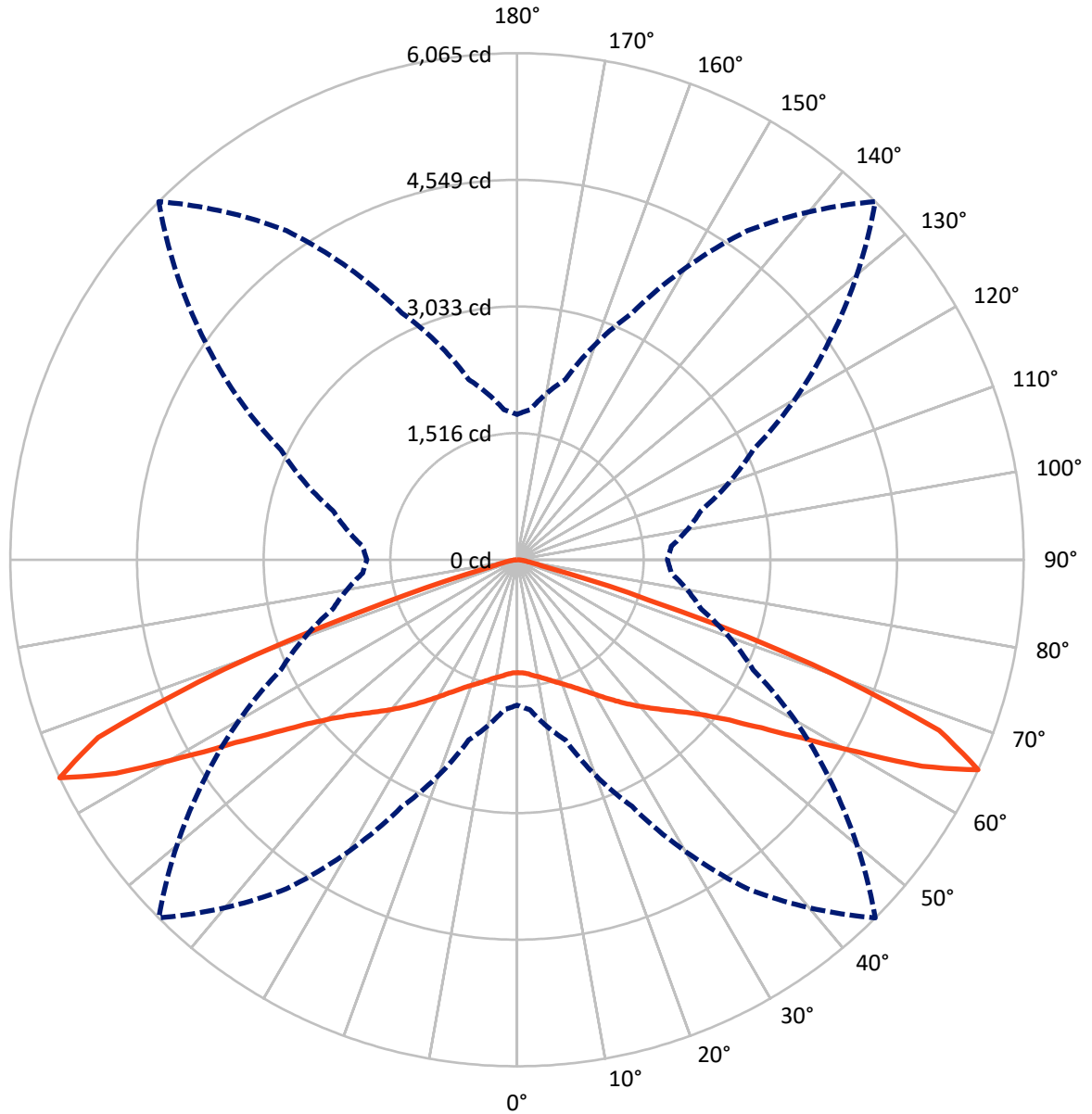
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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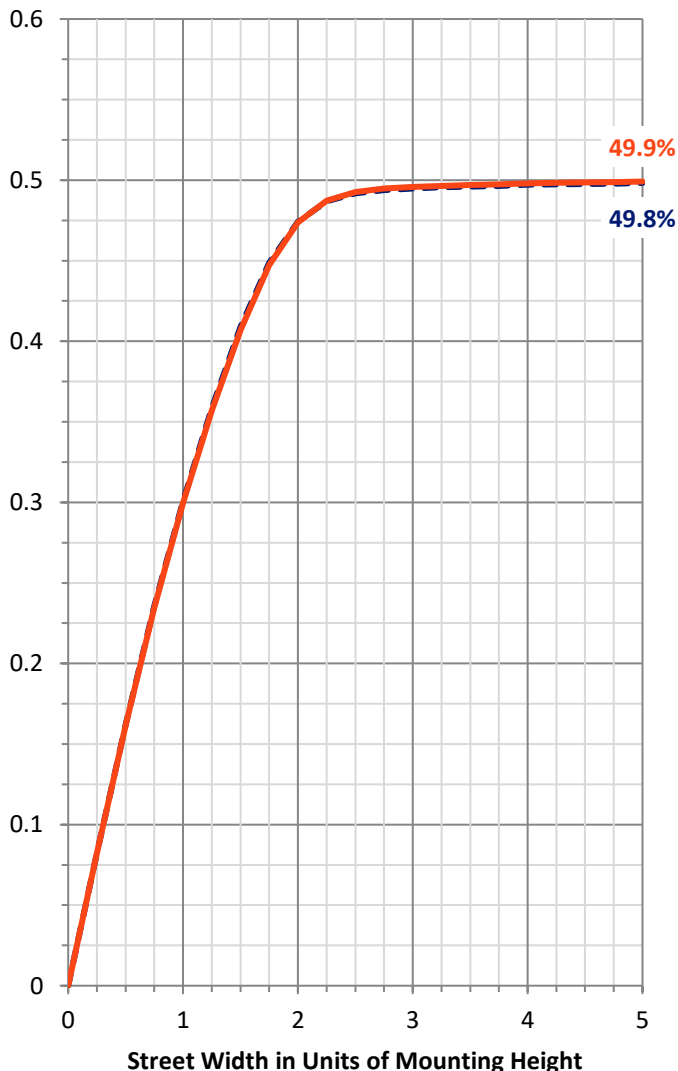
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5596.5   | 0.0    | 5596.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5596.5   | 0.0    | 5596.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 11193.0  | 0.0    | 11193.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 132.6   | 1.2       |
| 10°-20°   | 426.3   | 3.8       |
| 20°-30°   | 799.8   | 7.1       |
| 30°-40°   | 1322.7  | 11.8      |
| 40°-50°   | 2048.6  | 18.3      |
| 50°-60°   | 3142.0  | 28.1      |
| 60°-70°   | 2931.9  | 26.2      |
| 70°-80°   | 341.2   | 3.0       |
| 80°-90°   | 47.9    | 0.4       |
| 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°    | 11193.0 | 100.0     |
| 0°-180°   | 11193.0 | 100.0     |

**Coefficient of Utilization**



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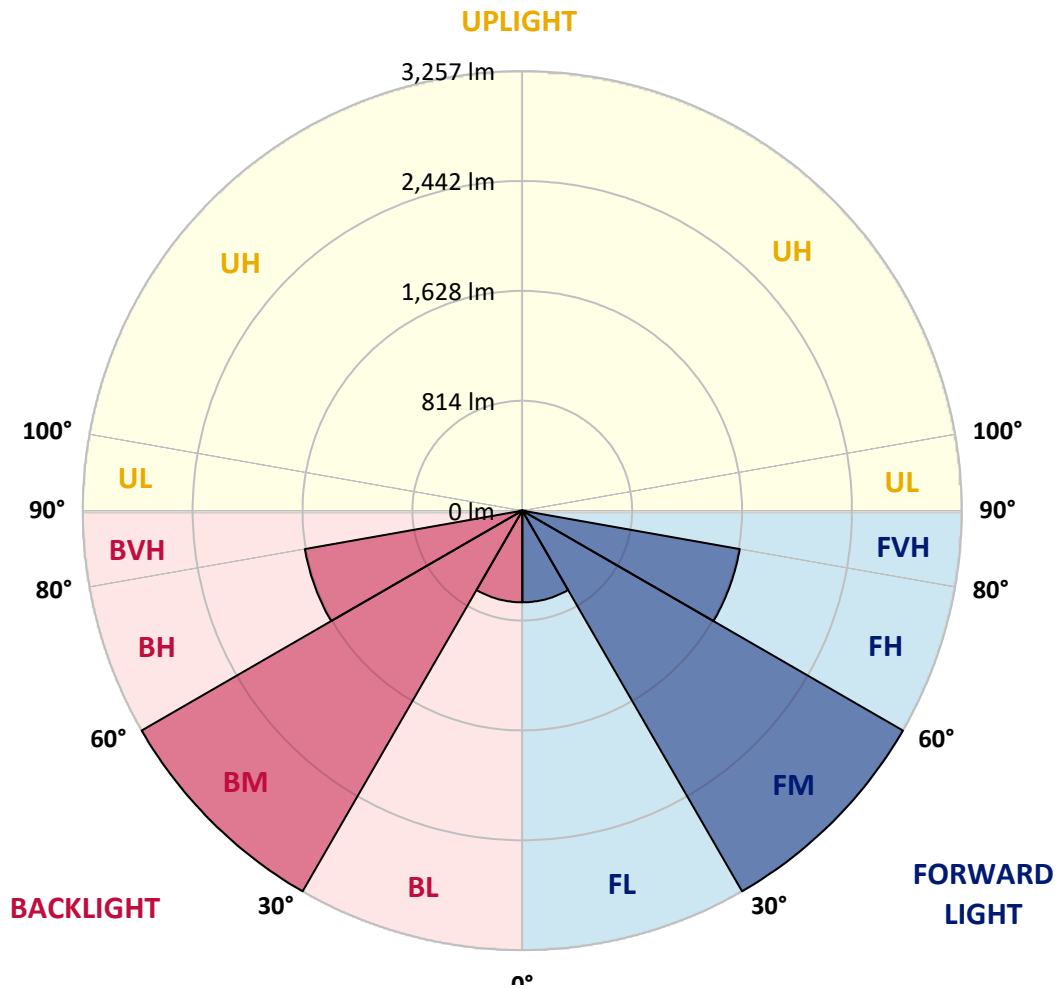
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 679.3  | 6.1       |                         |      |         |
| FM (30°-60°)   | 3256.7 | 29.1      |                         |      |         |
| FH (60°-80°)   | 1636.5 | 14.6      |                         |      | G1/1800 |
| FVH (80°-90°)  | 24.0   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 679.3  | 6.1       | B2/1000                 |      |         |
| BM (30°-60°)   | 3256.7 | 29.1      | B3/5000                 |      |         |
| BH (60°-80°)   | 1636.5 | 14.6      | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 24.0   | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1351.7 | 1351.7 | 1351.7 | 1351.7 | 1351.7 | 1351.7 | 1351.7 | 1351.7 | 1351.7 | 1351.7 | 1351.7 |
| 2.5°  | 1356.2 | 1355.4 | 1356.2 | 1356.5 | 1354.3 | 1355.4 | 1355.0 | 1356.9 | 1357.6 | 1356.9 | 1356.9 |
| 5°    | 1371.8 | 1370.6 | 1372.1 | 1374.0 | 1371.0 | 1371.8 | 1370.6 | 1372.9 | 1373.6 | 1372.1 | 1373.2 |
| 7.5°  | 1393.3 | 1393.7 | 1395.2 | 1398.5 | 1396.7 | 1398.1 | 1395.9 | 1396.3 | 1395.9 | 1393.7 | 1394.1 |
| 10°   | 1416.7 | 1417.1 | 1419.7 | 1424.1 | 1424.9 | 1424.9 | 1423.4 | 1422.3 | 1420.8 | 1419.3 | 1419.7 |
| 12.5° | 1445.0 | 1446.8 | 1448.7 | 1454.2 | 1454.2 | 1457.2 | 1456.5 | 1453.5 | 1450.9 | 1448.7 | 1448.7 |
| 15°   | 1483.2 | 1482.9 | 1485.1 | 1490.7 | 1493.3 | 1498.1 | 1498.1 | 1494.0 | 1490.7 | 1488.4 | 1487.7 |
| 17.5° | 1523.4 | 1524.5 | 1526.0 | 1532.6 | 1536.7 | 1542.3 | 1543.0 | 1539.7 | 1537.5 | 1534.5 | 1532.6 |
| 20°   | 1570.2 | 1572.0 | 1578.0 | 1580.6 | 1584.3 | 1589.5 | 1591.3 | 1590.6 | 1588.4 | 1586.9 | 1587.3 |
| 22.5° | 1624.8 | 1629.6 | 1633.3 | 1637.0 | 1641.5 | 1645.2 | 1647.1 | 1649.7 | 1647.4 | 1646.3 | 1645.6 |
| 25°   | 1690.9 | 1694.3 | 1701.7 | 1708.4 | 1711.4 | 1712.5 | 1714.7 | 1718.4 | 1718.0 | 1715.4 | 1715.4 |
| 27.5° | 1766.0 | 1772.3 | 1781.6 | 1791.2 | 1791.2 | 1787.5 | 1795.0 | 1801.3 | 1799.0 | 1795.7 | 1791.2 |
| 30°   | 1857.0 | 1862.9 | 1873.7 | 1887.1 | 1880.4 | 1877.8 | 1887.8 | 1899.4 | 1896.0 | 1890.4 | 1889.7 |
| 32.5° | 1955.1 | 1960.7 | 1974.8 | 1989.3 | 1980.7 | 1977.0 | 1987.8 | 2004.5 | 1998.6 | 1987.4 | 1980.7 |
| 35°   | 2061.4 | 2066.9 | 2087.0 | 2104.5 | 2090.0 | 2083.6 | 2092.6 | 2110.8 | 2100.4 | 2079.6 | 2074.4 |
| 37.5° | 2176.9 | 2179.9 | 2205.9 | 2223.7 | 2213.7 | 2197.0 | 2208.1 | 2221.5 | 2212.6 | 2187.3 | 2177.3 |
| 40°   | 2296.9 | 2307.7 | 2337.8 | 2358.6 | 2341.1 | 2314.8 | 2333.3 | 2351.9 | 2338.5 | 2306.2 | 2289.1 |
| 42.5° | 2437.0 | 2445.2 | 2485.3 | 2503.9 | 2475.6 | 2438.5 | 2463.7 | 2489.0 | 2475.6 | 2444.4 | 2429.6 |
| 45°   | 2582.6 | 2595.3 | 2643.2 | 2661.8 | 2620.9 | 2573.7 | 2604.6 | 2648.8 | 2647.7 | 2602.7 | 2587.1 |
| 47.5° | 2741.3 | 2753.9 | 2811.1 | 2835.7 | 2791.5 | 2728.3 | 2771.8 | 2834.2 | 2829.7 | 2780.3 | 2767.7 |
| 50°   | 2924.5 | 2937.8 | 3009.2 | 3040.0 | 2998.8 | 2925.2 | 2990.6 | 3045.6 | 3037.4 | 2976.5 | 2977.6 |
| 52.5° | 3154.5 | 3153.7 | 3242.5 | 3296.0 | 3253.7 | 3188.6 | 3248.8 | 3302.3 | 3268.5 | 3184.2 | 3181.6 |
| 55°   | 3355.8 | 3368.1 | 3478.1 | 3579.5 | 3576.9 | 3552.0 | 3576.2 | 3578.4 | 3481.8 | 3369.6 | 3355.8 |
| 57.5° | 3488.1 | 3511.5 | 3666.4 | 3850.0 | 3987.5 | 4020.5 | 3973.7 | 3831.8 | 3605.5 | 3426.1 | 3404.1 |
| 60°   | 3406.7 | 3442.4 | 3685.8 | 4059.9 | 4464.9 | 4659.2 | 4395.1 | 3954.8 | 3509.3 | 3259.2 | 3229.5 |
| 62.5° | 2857.6 | 2917.8 | 3274.1 | 3958.5 | 4875.8 | 5443.9 | 4700.5 | 3757.5 | 3126.6 | 2782.2 | 2731.3 |
| 65°   | 1740.3 | 1803.9 | 2233.4 | 3258.1 | 4809.3 | 6065.2 | 4561.1 | 3118.8 | 2282.1 | 1853.7 | 1798.7 |
| 67.5° | 580.0  | 598.6  | 851.6  | 1800.9 | 3779.8 | 5449.5 | 3786.1 | 1867.0 | 993.2  | 658.4  | 639.1  |
| 70°   | 227.0  | 228.9  | 270.1  | 522.0  | 1784.9 | 3743.0 | 1969.6 | 531.3  | 282.4  | 223.3  | 228.1  |
| 72.5° | 166.8  | 167.6  | 179.1  | 218.1  | 465.2  | 1648.9 | 481.9  | 219.2  | 174.3  | 156.4  | 156.4  |
| 75°   | 134.1  | 134.1  | 142.3  | 159.0  | 208.4  | 378.2  | 211.4  | 157.2  | 136.4  | 124.8  | 123.4  |
| 77.5° | 105.9  | 108.1  | 114.4  | 125.2  | 141.2  | 182.1  | 146.4  | 124.5  | 110.0  | 99.2   | 97.0   |
| 80°   | 78.8   | 81.0   | 91.4   | 96.6   | 101.4  | 126.3  | 108.1  | 97.3   | 86.9   | 74.3   | 72.1   |
| 82.5° | 51.6   | 53.9   | 66.9   | 69.9   | 68.7   | 82.5   | 72.8   | 71.7   | 63.9   | 47.9   | 45.7   |
| 85°   | 33.8   | 34.6   | 44.6   | 46.4   | 42.7   | 37.5   | 46.4   | 49.0   | 44.6   | 31.2   | 30.1   |
| 87.5° | 16.0   | 16.0   | 22.7   | 21.2   | 19.3   | 15.6   | 21.2   | 24.9   | 25.3   | 15.2   | 14.9   |
| 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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Cooper Lighting Solutions Photometric Lab  
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