

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P385494

Luminaire Tested: **GPC-SA1A-735-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385494  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GPC-SA1A-735-U-SLL-HSS  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

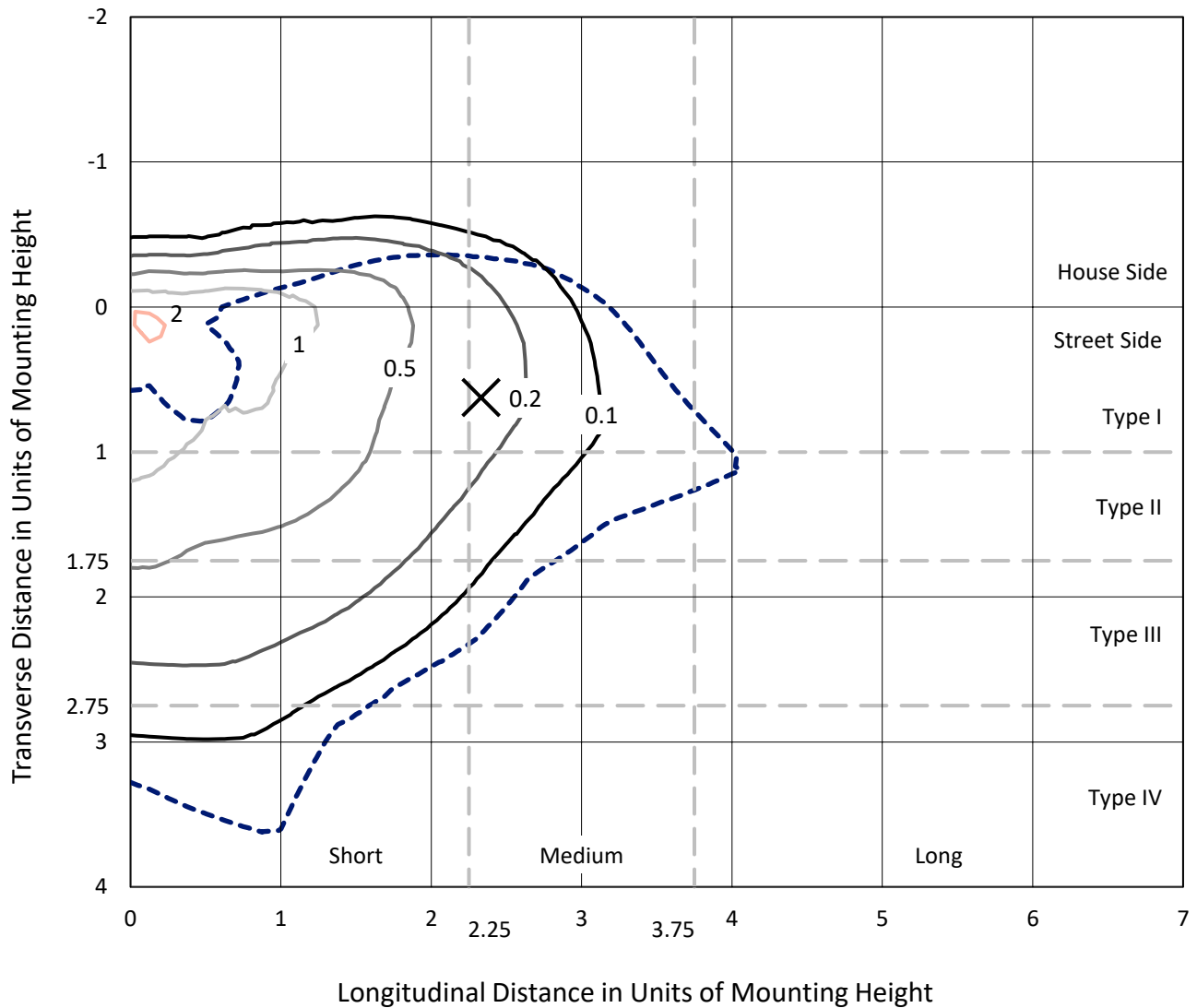
Lumens per Lamp: N/A  
Luminaire Lumens: 3465.4 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): 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: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

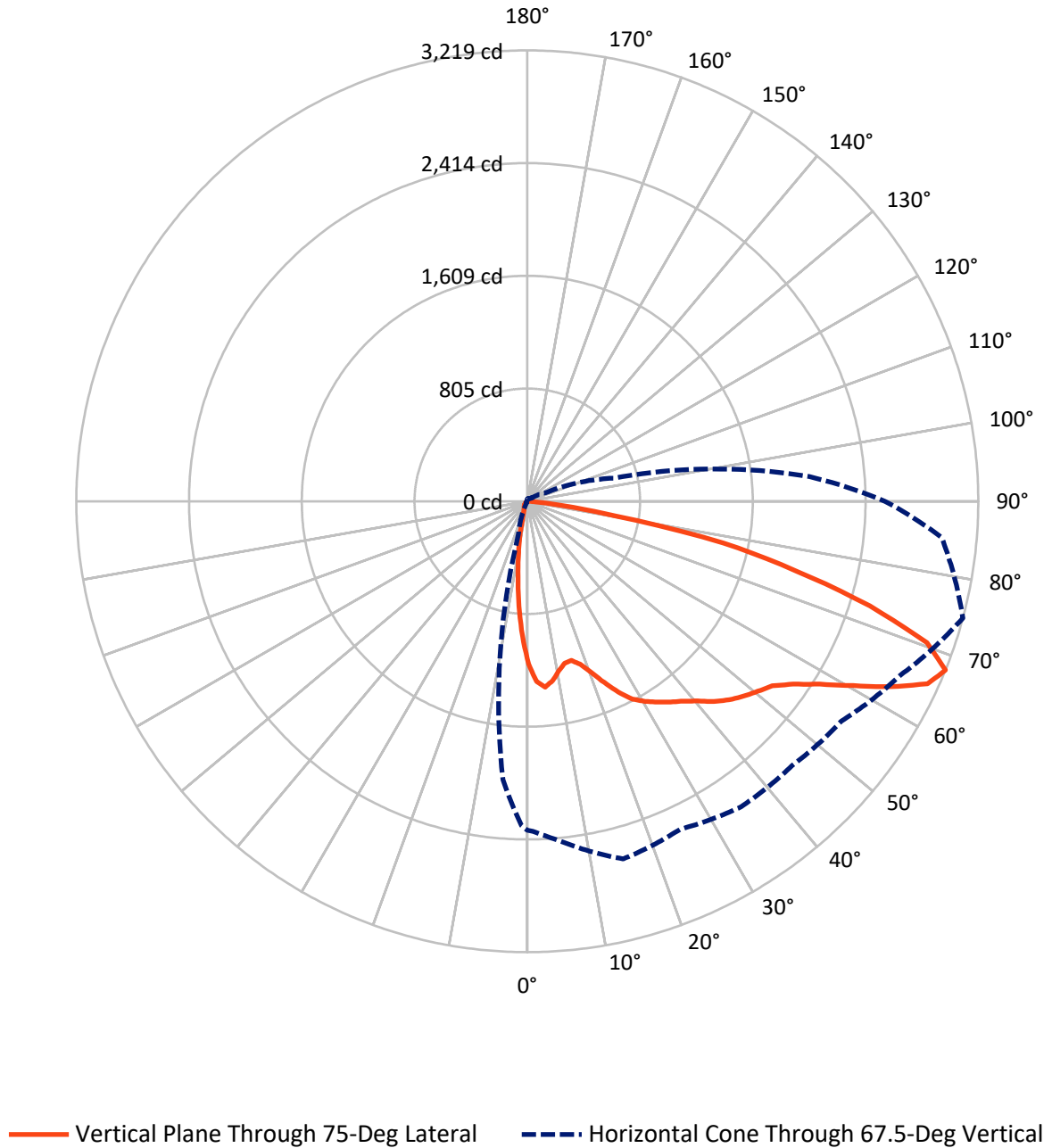
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



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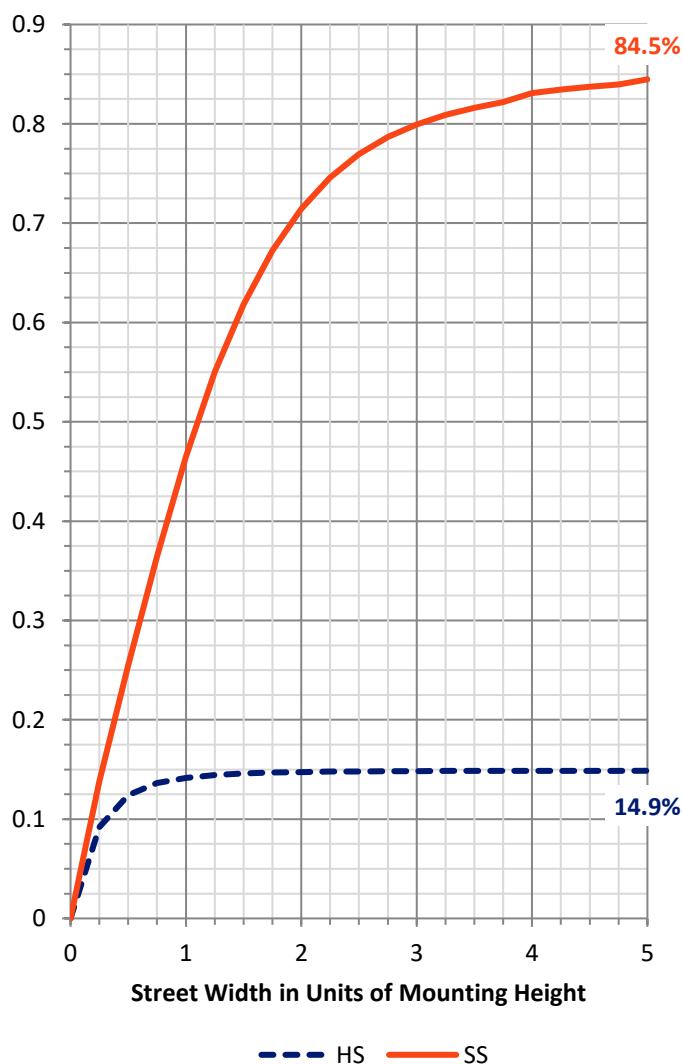
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 520.0    | 0.0    | 520.0  |
|                    | % Fixture | 15.0     | 0.0    | 15.0   |
| <b>Street Side</b> | Lumens    | 2945.4   | 0.0    | 2945.4 |
|                    | % Fixture | 85.0     | 0.0    | 85.0   |
| <b>Total</b>       | Lumens    | 3465.4   | 0.0    | 3465.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 88.2   | 2.5       |
| 10°-20°   | 173.6  | 5.0       |
| 20°-30°   | 245.7  | 7.1       |
| 30°-40°   | 361.2  | 10.4      |
| 40°-50°   | 519.1  | 15.0      |
| 50°-60°   | 730.8  | 21.1      |
| 60°-70°   | 853.5  | 24.6      |
| 70°-80°   | 435.4  | 12.6      |
| 80°-90°   | 57.8   | 1.7       |
| 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°    | 3465.4 | 100.0     |
| 0°-180°   | 3465.4 | 100.0     |

**Coefficient of Utilization**



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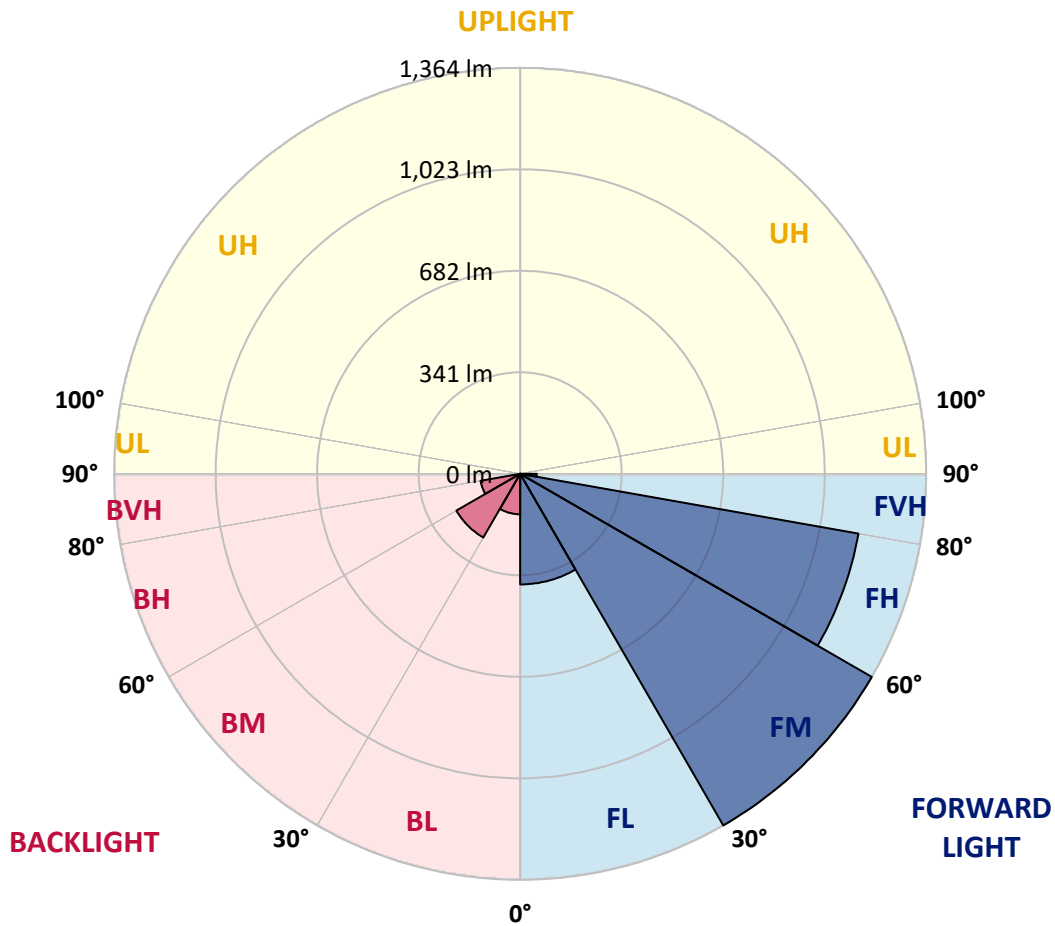
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 371.5  | 10.7      |                         |      |         |
| FM (30°-60°)   | 1363.9 | 39.4      |                         |      |         |
| FH (60°-80°)   | 1153.9 | 33.3      |                         |      | G1/1800 |
| FVH (80°-90°)  | 56.1   | 1.6       |                         |      | G1/100  |
| BL (0°-30°)    | 136.0  | 3.9       | B1/500                  |      |         |
| BM (30°-60°)   | 247.2  | 7.1       | B1/1000                 |      |         |
| BH (60°-80°)   | 135.1  | 3.9       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 1.8    | 0.1       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 |
| 2.5°  | 1260.3 | 1262.3 | 1272.4 | 1296.1 | 1321.8 | 1323.8 | 1341.2 | 1323.3 | 1317.2 | 1288.4 | 1258.5 |
| 5°    | 1269.8 | 1277.3 | 1312.3 | 1381.8 | 1442.0 | 1461.3 | 1475.1 | 1440.0 | 1403.1 | 1332.5 | 1257.2 |
| 7.5°  | 1193.1 | 1205.8 | 1260.8 | 1391.1 | 1498.8 | 1546.4 | 1555.4 | 1500.4 | 1409.9 | 1293.7 | 1180.4 |
| 10°   | 1095.0 | 1109.4 | 1175.7 | 1335.9 | 1483.9 | 1565.4 | 1577.9 | 1505.8 | 1375.8 | 1231.1 | 1097.6 |
| 12.5° | 1015.5 | 1032.4 | 1100.2 | 1273.9 | 1432.5 | 1522.8 | 1547.4 | 1487.6 | 1346.2 | 1186.5 | 1040.9 |
| 15°   | 978.8  | 998.3  | 1069.5 | 1233.8 | 1375.6 | 1446.6 | 1467.0 | 1441.2 | 1329.9 | 1179.5 | 1027.8 |
| 17.5° | 999.9  | 1020.9 | 1094.5 | 1237.3 | 1322.0 | 1352.4 | 1368.8 | 1379.3 | 1329.9 | 1222.1 | 1066.2 |
| 20°   | 1086.1 | 1108.8 | 1186.5 | 1272.2 | 1277.7 | 1266.3 | 1283.9 | 1320.9 | 1345.3 | 1302.8 | 1158.5 |
| 22.5° | 1205.2 | 1231.8 | 1319.7 | 1332.2 | 1256.0 | 1213.1 | 1215.5 | 1273.4 | 1373.4 | 1405.2 | 1286.5 |
| 25°   | 1350.6 | 1383.1 | 1472.4 | 1421.5 | 1265.0 | 1181.5 | 1180.6 | 1234.4 | 1400.8 | 1507.8 | 1429.2 |
| 27.5° | 1494.9 | 1530.6 | 1609.1 | 1530.5 | 1302.3 | 1175.7 | 1174.1 | 1222.5 | 1427.5 | 1599.1 | 1584.9 |
| 30°   | 1615.9 | 1650.6 | 1718.2 | 1609.5 | 1342.5 | 1189.2 | 1181.3 | 1235.1 | 1443.5 | 1658.3 | 1698.6 |
| 32.5° | 1714.3 | 1742.2 | 1796.9 | 1663.8 | 1385.5 | 1215.3 | 1198.2 | 1268.9 | 1470.5 | 1708.4 | 1803.0 |
| 35°   | 1822.7 | 1852.1 | 1873.9 | 1715.5 | 1433.8 | 1252.9 | 1228.4 | 1322.7 | 1512.2 | 1759.3 | 1917.4 |
| 37.5° | 1946.3 | 1975.5 | 1972.9 | 1762.8 | 1495.0 | 1315.1 | 1299.5 | 1407.7 | 1577.1 | 1809.7 | 2045.2 |
| 40°   | 2067.3 | 2097.2 | 2075.8 | 1814.4 | 1566.9 | 1417.7 | 1406.2 | 1535.4 | 1663.9 | 1874.2 | 2194.8 |
| 42.5° | 2180.5 | 2212.9 | 2167.3 | 1863.4 | 1652.6 | 1547.1 | 1566.7 | 1699.9 | 1772.6 | 1953.7 | 2323.9 |
| 45°   | 2271.8 | 2304.8 | 2243.9 | 1911.0 | 1742.9 | 1704.0 | 1763.2 | 1882.1 | 1903.3 | 2020.8 | 2411.0 |
| 47.5° | 2338.2 | 2369.3 | 2297.1 | 1958.6 | 1858.5 | 1895.9 | 1999.1 | 2073.1 | 2021.3 | 2079.1 | 2473.0 |
| 50°   | 2380.5 | 2404.8 | 2312.7 | 2018.2 | 2010.1 | 2119.8 | 2244.9 | 2281.0 | 2132.4 | 2131.7 | 2548.1 |
| 52.5° | 2407.4 | 2418.5 | 2324.2 | 2080.4 | 2168.4 | 2363.6 | 2485.5 | 2496.9 | 2246.8 | 2189.4 | 2649.4 |
| 55°   | 2500.2 | 2509.0 | 2405.6 | 2155.7 | 2299.3 | 2577.1 | 2703.2 | 2692.8 | 2376.4 | 2302.5 | 2768.9 |
| 57.5° | 2658.4 | 2667.8 | 2573.8 | 2264.1 | 2405.1 | 2709.1 | 2861.0 | 2879.9 | 2528.3 | 2461.4 | 2897.0 |
| 60°   | 2737.9 | 2755.2 | 2721.8 | 2401.4 | 2507.7 | 2793.6 | 2968.5 | 3028.8 | 2718.0 | 2670.9 | 3021.1 |
| 62.5° | 2665.8 | 2691.1 | 2739.6 | 2553.6 | 2609.6 | 2840.0 | 3002.0 | 3082.2 | 2912.4 | 2915.0 | 3097.6 |
| 65°   | 2522.0 | 2542.2 | 2624.6 | 2636.9 | 2668.7 | 2834.2 | 2919.3 | 3007.6 | 3031.4 | 3139.3 | 3093.4 |
| 67.5° | 2348.3 | 2355.9 | 2425.8 | 2643.5 | 2583.1 | 2661.6 | 2670.7 | 2736.1 | 2937.3 | 3218.7 | 2969.1 |
| 70°   | 2098.3 | 2102.5 | 2163.5 | 2423.6 | 2219.8 | 2237.1 | 2223.4 | 2236.7 | 2525.3 | 3025.1 | 2655.5 |
| 72.5° | 1688.7 | 1699.1 | 1785.9 | 2012.7 | 1617.2 | 1567.4 | 1674.5 | 1668.6 | 1944.8 | 2555.8 | 1972.3 |
| 75°   | 1243.4 | 1261.2 | 1392.4 | 1621.3 | 1135.0 | 1026.7 | 1104.8 | 1125.7 | 1382.6 | 1977.0 | 1233.3 |
| 77.5° | 870.5  | 883.9  | 1010.9 | 1191.8 | 821.5  | 734.1  | 705.9  | 730.7  | 912.5  | 1430.1 | 621.3  |
| 80°   | 501.5  | 506.4  | 587.5  | 688.2  | 553.6  | 633.3  | 573.8  | 590.8  | 546.8  | 636.3  | 267.3  |
| 82.5° | 328.1  | 329.0  | 360.6  | 409.6  | 344.8  | 400.6  | 296.5  | 379.0  | 336.4  | 255.6  | 87.0   |
| 85°   | 177.3  | 178.3  | 209.1  | 290.7  | 195.2  | 110.3  | 64.8   | 133.1  | 208.0  | 58.6   | 23.8   |
| 87.5° | 19.5   | 17.8   | 63.0   | 105.7  | 54.2   | 10.1   | 3.5    | 14.9   | 33.3   | 3.8    | 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    |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 |
| 2.5°  | 1243.2 | 1229.6 | 1195.6 | 1159.7 | 1130.7 | 1103.7 | 1076.5 | 1043.1 | 1017.3 | 1012.0 | 1003.6 |
| 5°    | 1216.6 | 1173.4 | 1102.2 | 1030.6 | 973.0  | 900.2  | 854.1  | 818.2  | 783.1  | 780.9  | 773.9  |
| 7.5°  | 1123.7 | 1066.9 | 966.5  | 867.6  | 786.5  | 717.2  | 647.2  | 600.5  | 563.7  | 550.8  | 543.1  |
| 10°   | 1034.4 | 970.5  | 845.3  | 732.4  | 659.9  | 598.7  | 549.5  | 500.5  | 456.2  | 425.6  | 411.9  |
| 12.5° | 972.0  | 901.4  | 763.4  | 666.0  | 614.1  | 556.0  | 495.9  | 434.8  | 383.8  | 347.0  | 324.6  |
| 15°   | 947.8  | 872.5  | 735.9  | 639.7  | 575.8  | 502.2  | 425.4  | 355.6  | 298.9  | 265.6  | 245.5  |
| 17.5° | 976.6  | 888.9  | 733.8  | 607.7  | 518.3  | 426.9  | 341.9  | 259.6  | 206.2  | 180.9  | 168.0  |
| 20°   | 1049.5 | 941.2  | 733.0  | 568.5  | 450.0  | 337.5  | 231.7  | 170.7  | 138.4  | 124.3  | 118.2  |
| 22.5° | 1152.5 | 1007.8 | 739.6  | 529.7  | 378.9  | 241.1  | 159.9  | 125.4  | 108.9  | 101.3  | 97.9   |
| 25°   | 1285.2 | 1101.3 | 758.1  | 494.6  | 312.1  | 179.9  | 124.6  | 105.0  | 93.4   | 87.5   | 85.0   |
| 27.5° | 1426.6 | 1209.1 | 787.0  | 464.1  | 257.8  | 143.4  | 106.7  | 90.0   | 81.6   | 77.5   | 75.2   |
| 30°   | 1543.1 | 1333.8 | 816.2  | 430.1  | 218.3  | 125.1  | 97.7   | 82.1   | 72.4   | 69.8   | 67.6   |
| 32.5° | 1645.1 | 1428.2 | 836.9  | 399.4  | 192.6  | 111.1  | 88.3   | 73.4   | 66.8   | 61.7   | 59.5   |
| 35°   | 1750.7 | 1506.9 | 836.2  | 377.9  | 174.8  | 100.6  | 80.4   | 65.7   | 57.8   | 51.9   | 50.1   |
| 37.5° | 1864.9 | 1595.7 | 822.0  | 359.5  | 167.1  | 92.2   | 76.0   | 61.5   | 53.6   | 47.8   | 45.5   |
| 40°   | 1998.7 | 1688.9 | 807.3  | 342.3  | 165.0  | 85.5   | 72.9   | 58.2   | 49.9   | 44.2   | 41.9   |
| 42.5° | 2129.0 | 1772.9 | 794.5  | 329.4  | 155.8  | 85.4   | 70.1   | 55.8   | 47.0   | 41.3   | 38.7   |
| 45°   | 2233.2 | 1851.3 | 792.1  | 321.7  | 146.1  | 88.3   | 68.6   | 54.2   | 44.6   | 39.1   | 36.6   |
| 47.5° | 2319.9 | 1936.3 | 807.9  | 316.3  | 136.9  | 80.6   | 72.2   | 53.0   | 42.6   | 37.1   | 34.3   |
| 50°   | 2423.0 | 2040.6 | 845.0  | 307.5  | 127.2  | 72.5   | 82.8   | 53.4   | 40.7   | 35.1   | 32.2   |
| 52.5° | 2566.8 | 2185.1 | 899.5  | 292.5  | 113.9  | 65.2   | 81.4   | 53.6   | 38.7   | 33.0   | 30.1   |
| 55°   | 2728.0 | 2365.6 | 958.1  | 267.7  | 95.3   | 55.5   | 69.8   | 51.4   | 34.9   | 30.7   | 27.9   |
| 57.5° | 2897.5 | 2529.2 | 992.8  | 238.2  | 75.8   | 47.9   | 55.8   | 46.8   | 30.9   | 27.6   | 25.7   |
| 60°   | 2924.1 | 2591.4 | 977.0  | 201.9  | 60.2   | 41.7   | 41.3   | 47.6   | 27.6   | 24.3   | 23.0   |
| 62.5° | 2857.9 | 2513.3 | 899.9  | 169.6  | 50.4   | 36.6   | 34.0   | 41.5   | 25.0   | 21.7   | 20.4   |
| 65°   | 2730.6 | 2302.1 | 775.2  | 152.8  | 46.8   | 31.4   | 28.3   | 29.2   | 21.8   | 18.9   | 17.8   |
| 67.5° | 2553.6 | 2020.0 | 636.4  | 143.4  | 46.3   | 27.0   | 24.1   | 22.2   | 18.9   | 16.4   | 15.4   |
| 70°   | 2191.9 | 1682.8 | 507.7  | 138.1  | 45.0   | 22.6   | 20.4   | 18.0   | 15.8   | 14.0   | 13.2   |
| 72.5° | 1613.2 | 1192.5 | 395.0  | 132.4  | 45.3   | 18.0   | 17.8   | 14.9   | 12.7   | 10.8   | 10.5   |
| 75°   | 932.1  | 681.2  | 259.1  | 107.2  | 43.2   | 14.0   | 14.7   | 10.5   | 8.8    | 7.5    | 7.5    |
| 77.5° | 496.8  | 415.5  | 98.6   | 44.6   | 15.8   | 8.8    | 8.4    | 6.2    | 5.5    | 4.6    | 4.4    |
| 80°   | 216.5  | 182.9  | 29.7   | 12.5   | 8.7    | 4.8    | 3.1    | 2.8    | 2.4    | 2.0    | 1.8    |
| 82.5° | 76.7   | 66.1   | 9.7    | 6.1    | 3.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 17.4   | 12.5   | 0.0    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    |





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**CANDELA DISTRIBUTION (continued):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 |
| 2.5°  | 986.1  | 982.5  | 961.2  | 961.9  | 965.8  | 971.1  | 958.4  | 964.3  | 980.2  | 995.5  | 1001.2 |
| 5°    | 762.5  | 763.4  | 750.4  | 758.5  | 765.6  | 770.6  | 749.9  | 750.2  | 762.9  | 780.1  | 789.1  |
| 7.5°  | 537.3  | 536.0  | 536.7  | 555.8  | 569.5  | 559.6  | 567.3  | 540.6  | 542.2  | 554.5  | 545.3  |
| 10°   | 399.4  | 381.3  | 371.2  | 385.6  | 400.6  | 395.1  | 381.9  | 373.1  | 379.2  | 392.9  | 391.8  |
| 12.5° | 313.9  | 287.9  | 272.7  | 262.4  | 274.7  | 264.4  | 264.2  | 256.5  | 248.4  | 249.9  | 271.7  |
| 15°   | 236.1  | 217.2  | 199.2  | 182.5  | 182.2  | 178.8  | 161.2  | 141.5  | 139.9  | 140.8  | 152.2  |
| 17.5° | 162.3  | 155.9  | 148.6  | 134.2  | 130.5  | 116.0  | 99.0   | 91.1   | 87.2   | 89.0   | 92.7   |
| 20°   | 114.1  | 111.6  | 112.4  | 104.7  | 99.3   | 85.5   | 75.5   | 72.4   | 71.8   | 73.6   | 75.3   |
| 22.5° | 94.6   | 90.1   | 89.6   | 86.1   | 80.8   | 70.7   | 65.4   | 63.5   | 62.8   | 64.3   | 65.7   |
| 25°   | 82.8   | 78.3   | 76.5   | 74.4   | 68.6   | 61.7   | 58.4   | 56.8   | 56.0   | 56.9   | 57.8   |
| 27.5° | 72.9   | 68.8   | 67.2   | 65.7   | 60.1   | 55.1   | 52.5   | 51.0   | 50.4   | 50.7   | 51.6   |
| 30°   | 65.5   | 61.9   | 59.7   | 58.0   | 53.2   | 49.7   | 47.4   | 45.9   | 45.3   | 45.3   | 46.1   |
| 32.5° | 57.8   | 55.8   | 53.8   | 51.6   | 47.2   | 44.8   | 42.6   | 40.9   | 40.2   | 40.4   | 41.1   |
| 35°   | 48.1   | 47.4   | 47.9   | 45.8   | 42.0   | 40.0   | 37.8   | 36.0   | 35.4   | 35.6   | 36.3   |
| 37.5° | 42.6   | 39.7   | 41.5   | 40.4   | 38.2   | 35.6   | 32.7   | 31.0   | 30.2   | 30.7   | 31.0   |
| 40°   | 39.3   | 35.6   | 34.3   | 35.4   | 35.1   | 30.9   | 28.3   | 26.6   | 25.9   | 26.1   | 26.4   |
| 42.5° | 36.3   | 32.0   | 29.0   | 28.9   | 30.9   | 27.0   | 24.1   | 22.6   | 21.8   | 21.8   | 22.2   |
| 45°   | 33.4   | 28.9   | 25.3   | 22.5   | 25.9   | 22.8   | 20.2   | 18.9   | 17.8   | 17.8   | 18.0   |
| 47.5° | 31.4   | 26.3   | 22.0   | 18.4   | 19.5   | 18.7   | 16.5   | 15.3   | 14.3   | 14.3   | 14.5   |
| 50°   | 29.4   | 23.7   | 19.1   | 15.4   | 14.7   | 15.4   | 13.4   | 12.0   | 11.4   | 11.2   | 11.5   |
| 52.5° | 27.2   | 21.0   | 16.3   | 13.2   | 11.5   | 11.6   | 10.5   | 9.5    | 8.7    | 8.7    | 9.0    |
| 55°   | 25.1   | 18.9   | 14.1   | 11.2   | 9.5    | 8.7    | 8.4    | 7.7    | 7.0    | 7.0    | 7.4    |
| 57.5° | 23.0   | 16.5   | 12.0   | 9.2    | 7.5    | 6.9    | 6.9    | 6.4    | 5.9    | 5.9    | 6.2    |
| 60°   | 21.0   | 14.3   | 9.9    | 7.5    | 5.9    | 5.7    | 5.9    | 5.4    | 5.1    | 5.1    | 5.4    |
| 62.5° | 18.7   | 12.1   | 8.1    | 6.2    | 4.8    | 4.6    | 5.1    | 4.8    | 4.4    | 4.4    | 4.8    |
| 65°   | 16.0   | 10.3   | 6.4    | 4.8    | 3.6    | 3.6    | 4.2    | 3.9    | 3.6    | 3.6    | 3.9    |
| 67.5° | 13.4   | 8.7    | 4.9    | 3.5    | 2.6    | 2.8    | 3.6    | 3.3    | 3.1    | 3.1    | 3.5    |
| 70°   | 11.2   | 6.8    | 3.5    | 2.2    | 1.5    | 2.2    | 2.8    | 2.8    | 2.8    | 2.8    | 3.1    |
| 72.5° | 8.4    | 4.6    | 2.0    | 0.8    | 0.7    | 1.5    | 2.3    | 2.6    | 2.4    | 2.4    | 2.9    |
| 75°   | 5.4    | 2.6    | 0.7    | 0.0    | 0.0    | 0.8    | 1.8    | 2.2    | 2.2    | 2.0    | 2.4    |
| 77.5° | 3.1    | 0.8    | 0.0    | 0.0    | 0.0    | 0.0    | 1.1    | 0.9    | 0.8    | 0.7    | 1.1    |
| 80°   | 0.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    |



REPORT NUMBER: P385494  
 CATALOG NUMBER: GPC-SA1A-735-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 285°   | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 359°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 |
| 2.5°  | 1024.4 | 1043.8 | 1071.0 | 1099.8 | 1144.4 | 1179.7 | 1214.3 | 1244.0 | 1255.5 | 1260.3 |
| 5°    | 810.8  | 839.2  | 879.1  | 930.3  | 1010.6 | 1082.8 | 1156.0 | 1229.8 | 1261.7 | 1269.8 |
| 7.5°  | 581.8  | 618.0  | 668.8  | 733.0  | 827.0  | 920.6  | 1022.9 | 1131.0 | 1180.6 | 1193.1 |
| 10°   | 430.6  | 475.0  | 533.0  | 600.6  | 690.5  | 786.6  | 898.2  | 1021.8 | 1078.3 | 1095.0 |
| 12.5° | 305.5  | 365.4  | 443.2  | 525.5  | 603.3  | 689.1  | 802.0  | 938.2  | 997.6  | 1015.5 |
| 15°   | 179.4  | 237.4  | 329.4  | 439.6  | 539.3  | 626.3  | 740.9  | 895.3  | 960.8  | 978.8  |
| 17.5° | 103.0  | 131.8  | 201.4  | 324.2  | 459.5  | 580.0  | 721.6  | 906.0  | 983.2  | 999.9  |
| 20°   | 78.6   | 87.8   | 116.0  | 208.8  | 366.3  | 534.5  | 721.6  | 966.4  | 1061.4 | 1086.1 |
| 22.5° | 68.8   | 75.5   | 87.0   | 124.6  | 269.5  | 485.8  | 730.0  | 1053.7 | 1178.0 | 1205.2 |
| 25°   | 61.1   | 67.2   | 77.0   | 93.8   | 183.8  | 427.8  | 749.9  | 1160.9 | 1315.2 | 1350.6 |
| 27.5° | 54.7   | 60.4   | 69.2   | 82.1   | 125.8  | 357.9  | 776.7  | 1286.7 | 1466.6 | 1494.9 |
| 30°   | 48.9   | 54.3   | 62.4   | 71.4   | 97.0   | 278.6  | 799.4  | 1405.2 | 1585.5 | 1615.9 |
| 32.5° | 43.5   | 48.5   | 55.6   | 62.4   | 79.5   | 206.0  | 802.0  | 1499.1 | 1684.1 | 1714.3 |
| 35°   | 38.4   | 42.8   | 49.4   | 54.7   | 65.9   | 162.7  | 763.6  | 1580.5 | 1782.8 | 1822.7 |
| 37.5° | 33.4   | 37.8   | 43.5   | 47.4   | 58.0   | 132.6  | 705.2  | 1671.4 | 1909.3 | 1946.3 |
| 40°   | 28.9   | 32.7   | 38.6   | 41.2   | 54.9   | 101.9  | 641.7  | 1766.5 | 2033.5 | 2067.3 |
| 42.5° | 24.6   | 28.3   | 34.0   | 39.1   | 48.1   | 76.2   | 573.1  | 1855.9 | 2145.1 | 2180.5 |
| 45°   | 20.5   | 24.3   | 30.1   | 41.3   | 39.9   | 56.9   | 499.7  | 1915.1 | 2233.2 | 2271.8 |
| 47.5° | 16.5   | 20.9   | 28.7   | 39.4   | 31.8   | 41.9   | 441.6  | 1971.2 | 2300.1 | 2338.2 |
| 50°   | 13.3   | 17.6   | 32.3   | 35.1   | 26.1   | 32.0   | 417.3  | 2021.5 | 2343.9 | 2380.5 |
| 52.5° | 10.8   | 14.7   | 30.5   | 27.0   | 21.8   | 26.4   | 430.4  | 2102.9 | 2384.5 | 2407.4 |
| 55°   | 9.0    | 11.6   | 18.4   | 18.7   | 18.5   | 22.5   | 446.7  | 2219.8 | 2489.3 | 2500.2 |
| 57.5° | 7.9    | 9.4    | 12.8   | 14.5   | 15.6   | 20.0   | 447.1  | 2387.6 | 2651.7 | 2658.4 |
| 60°   | 6.8    | 8.2    | 10.7   | 11.6   | 13.4   | 17.8   | 430.8  | 2446.2 | 2715.6 | 2737.9 |
| 62.5° | 5.9    | 7.2    | 8.8    | 9.7    | 11.4   | 16.1   | 392.7  | 2361.3 | 2627.9 | 2665.8 |
| 65°   | 5.3    | 6.6    | 7.4    | 8.2    | 10.1   | 14.5   | 330.0  | 2191.5 | 2482.4 | 2522.0 |
| 67.5° | 4.6    | 5.7    | 6.6    | 7.4    | 9.0    | 12.8   | 242.9  | 1994.4 | 2315.5 | 2348.3 |
| 70°   | 4.1    | 5.1    | 5.9    | 6.6    | 7.9    | 10.8   | 147.4  | 1692.3 | 2084.7 | 2098.3 |
| 72.5° | 3.9    | 4.6    | 5.4    | 5.9    | 6.9    | 9.5    | 74.7   | 1243.7 | 1666.6 | 1688.7 |
| 75°   | 3.5    | 4.1    | 4.9    | 5.3    | 6.1    | 8.2    | 30.3   | 816.9  | 1207.8 | 1243.4 |
| 77.5° | 2.8    | 3.8    | 4.4    | 4.8    | 5.3    | 6.8    | 15.4   | 522.0  | 847.5  | 870.5  |
| 80°   | 0.9    | 2.8    | 3.8    | 3.9    | 4.4    | 4.9    | 10.1   | 285.8  | 491.7  | 501.5  |
| 82.5° | 0.0    | 1.8    | 2.9    | 2.8    | 3.1    | 3.8    | 6.6    | 135.9  | 324.6  | 328.1  |
| 85°   | 0.0    | 0.8    | 2.3    | 1.8    | 1.3    | 2.6    | 2.3    | 29.7   | 170.2  | 177.3  |
| 87.5° | 0.0    | 0.0    | 0.2    | 0.8    | 0.7    | 0.9    | 0.3    | 0.2    | 15.4   | 19.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



**Test Information**

Test Method: LM-79-08  
 Report Number: SP1-2101-121-7  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1  
 Measurement Geometry: 4π  
 Issue Date: 03/04/2021  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: **IFLD-S-SA2A-735-U-T2**  
 Description: STREETWORKS INF FLOOD

PROGRAMMED @ 615mA.

**Spectral Parameters**

|                           |        |           |      |      |       |
|---------------------------|--------|-----------|------|------|-------|
| CCT (K):                  | 3388   | CRI (Ra): | 73.1 | R9:  | -34.6 |
| CIE u':                   | 0.2371 | R1:       | 68.9 | R10: | 57.8  |
| CIE v':                   | 0.5177 | R2:       | 81.1 | R11: | 68.6  |
| Duv:                      | 0.0032 | R3:       | 93.1 | R12: | 53.9  |
| CIE x:                    | 0.4153 | R4:       | 71.6 | R13: | 70.9  |
| CIE y:                    | 0.4030 | R5:       | 69.4 | R14: | 96.2  |
| CIE z:                    | 0.1817 | R6:       | 75.0 |      |       |
| Peak Wavelength (nm):     | 590    | R7:       | 79.5 |      |       |
| Dominant Wavelength (nm): | 580    | R8:       | 46.4 |      |       |
| Purity:                   | 45.7   |           |      |      |       |
| Rf:                       | 76.9   |           |      |      |       |
| Rg:                       | 94.4   |           |      |      |       |



**Test Conditions**

Stabilization Time: 81M  
 Operation Time: 12H  
 Room Temperature (°C) / RH%: 25.0/30%  
 Sphere Temperature (°C): 24.1

REPORT NUMBER: SP1-2101-121-7

| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| Photometer                     | IN0058                | 1/31/2021        | 7/31/2021            |
| Power Meter                    | IN0071                | 12/1/2020        | 12/1/2021            |
| AC Power Source                | IN0063                | 12/1/2020        | 12/1/2021            |
| DC Power Source                | IN0208                | 12/1/2020        | 12/1/2021            |
| Sphere Thermometer             | IN0085                | 12/1/2020        | 12/1/2021            |
| Room Thermometer               | IN0046                | 12/1/2020        | 12/1/2021            |

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CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

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**Photopic Flux vs. Wavelength**



#####

| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360    | 2672          | 0.0           | 490    | 34553         | 4.9           | 620    | 136720        | 35.6          | 750    | 5870          | 0.0           | 880    | 4216          | 0.0           |
| 365    | 2252          | 0.0           | 495    | 44336         | 8.0           | 625    | 126308        | 27.9          | 755    | 5421          | 0.0           | 885    | 4132          | 0.0           |
| 370    | 2217          | 0.0           | 500    | 54643         | 12.1          | 630    | 114625        | 20.7          | 760    | 5097          | 0.0           | 890    | 3992          | 0.0           |
| 375    | 2697          | 0.0           | 505    | 64676         | 18.1          | 635    | 103216        | 15.5          | 765    | 4626          | 0.0           | 895    | 3214          | 0.0           |
| 380    | 3039          | 0.0           | 510    | 73825         | 25.4          | 640    | 92605         | 11.1          | 770    | 3782          | 0.0           | 900    | 2580          | 0.0           |
| 385    | 2655          | 0.0           | 515    | 81872         | 33.9          | 645    | 83234         | 8.0           | 775    | 3506          | 0.0           | 905    | 1776          | 0.0           |
| 390    | 2357          | 0.0           | 520    | 88574         | 43.0          | 650    | 73263         | 5.4           | 780    | 3507          | 0.0           | 910    | 3995          | 0.0           |
| 395    | 2186          | 0.0           | 525    | 93289         | 50.1          | 655    | 64627         | 3.7           | 785    | 3267          | 0.0           | 915    | 4288          | 0.0           |
| 400    | 2015          | 0.0           | 530    | 98393         | 57.9          | 660    | 56614         | 2.4           | 790    | 2849          | 0.0           | 920    | 2446          | 0.0           |
| 405    | 2234          | 0.0           | 535    | 103269        | 64.0          | 665    | 49537         | 1.6           | 795    | 3037          | 0.0           | 925    | 3009          | 0.0           |
| 410    | 3412          | 0.0           | 540    | 107316        | 69.9          | 670    | 42866         | 0.9           | 800    | 2716          | 0.0           | 930    | 3026          | 0.0           |
| 415    | 6135          | 0.0           | 545    | 113101        | 75.3          | 675    | 36708         | 0.6           | 805    | 2648          | 0.0           | 935    | 4734          | 0.0           |
| 420    | 12146         | 0.0           | 550    | 120690        | 82.0          | 680    | 31814         | 0.4           | 810    | 3187          | 0.0           | 940    | 3719          | 0.0           |
| 425    | 23983         | 0.1           | 555    | 128583        | 87.8          | 685    | 27485         | 0.2           | 815    | 2931          | 0.0           | 945    | 1480          | 0.0           |
| 430    | 42142         | 0.3           | 560    | 137796        | 93.6          | 690    | 23698         | 0.1           | 820    | 2717          | 0.0           | 950    | 3450          | 0.0           |
| 435    | 68228         | 0.8           | 565    | 146577        | 97.5          | 695    | 20309         | 0.1           | 825    | 2236          | 0.0           | 955    | 5051          | 0.0           |
| 440    | 99323         | 1.6           | 570    | 154581        | 100.5         | 700    | 17890         | 0.1           | 830    | 2628          | 0.0           | 960    | 3176          | 0.0           |
| 445    | 115584        | 2.4           | 575    | 162633        | 101.2         | 705    | 15500         | 0.0           | 835    | 3140          | 0.0           | 965    | 5178          | 0.0           |
| 450    | 94997         | 2.5           | 580    | 168101        | 99.9          | 710    | 13699         | 0.0           | 840    | 3675          | 0.0           | 970    | 6385          | 0.0           |
| 455    | 61433         | 2.1           | 585    | 173145        | 96.2          | 715    | 12398         | 0.0           | 845    | 3283          | 0.0           | 975    | 3810          | 0.0           |
| 460    | 43373         | 1.8           | 590    | 174675        | 90.3          | 720    | 11147         | 0.0           | 850    | 3055          | 0.0           | 980    | 4322          | 0.0           |
| 465    | 32472         | 1.7           | 595    | 173724        | 82.3          | 725    | 9761          | 0.0           | 855    | 2932          | 0.0           | 985    | 4200          | 0.0           |
| 470    | 24257         | 1.5           | 600    | 171241        | 73.8          | 730    | 8651          | 0.0           | 860    | 3382          | 0.0           | 990    | 4661          | 0.0           |
| 475    | 21690         | 1.7           | 605    | 165134        | 64.0          | 735    | 7730          | 0.0           | 865    | 2605          | 0.0           | 995    | 6746          | 0.0           |
| 480    | 23173         | 2.2           | 610    | 156652        | 53.8          | 740    | 6847          | 0.0           | 870    | 3325          | 0.0           | 1000   | 4150          | 0.0           |
| 485    | 27564         | 3.3           | 615    | 147879        | 44.6          | 745    | 6124          | 0.0           | 875    | 3325          | 0.0           |        |               |               |

REPORT NUMBER: SP1-2101-121-7

**Scotopic Flux vs. Wavelength**



**Scotopic Lumens: 12126**

**S/P: 1.36**

| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360    | 2672          | 0.0           | 490    | 34553         | 53.2          | 620    | 136720        | 1.7           | 750    | 5870          | 0.0           | 880    | 4216          | 0.0           |
| 365    | 2252          | 0.0           | 495    | 44336         | 71.7          | 625    | 126308        | 1.1           | 755    | 5421          | 0.0           | 885    | 4132          | 0.0           |
| 370    | 2217          | 0.0           | 500    | 54643         | 91.4          | 630    | 114625        | 0.6           | 760    | 5097          | 0.0           | 890    | 3992          | 0.0           |
| 375    | 2697          | 0.0           | 505    | 64676         | 110.0         | 635    | 103216        | 0.4           | 765    | 4626          | 0.0           | 895    | 3214          | 0.0           |
| 380    | 3039          | 0.0           | 510    | 73825         | 125.1         | 640    | 92605         | 0.2           | 770    | 3782          | 0.0           | 900    | 2580          | 0.0           |
| 385    | 2655          | 0.0           | 515    | 81872         | 135.7         | 645    | 83234         | 0.1           | 775    | 3506          | 0.0           | 905    | 1776          | 0.0           |
| 390    | 2357          | 0.0           | 520    | 88574         | 140.8         | 650    | 73263         | 0.1           | 780    | 3507          | 0.0           | 910    | 3995          | 0.0           |
| 395    | 2186          | 0.0           | 525    | 93289         | 139.6         | 655    | 64627         | 0.1           | 785    | 3267          | 0.0           | 915    | 4288          | 0.0           |
| 400    | 2015          | 0.0           | 530    | 98393         | 135.7         | 660    | 56614         | 0.0           | 790    | 2849          | 0.0           | 920    | 2446          | 0.0           |
| 405    | 2234          | 0.1           | 535    | 103269        | 128.7         | 665    | 49537         | 0.0           | 795    | 3037          | 0.0           | 925    | 3009          | 0.0           |
| 410    | 3412          | 0.2           | 540    | 107316        | 118.6         | 670    | 42866         | 0.0           | 800    | 2716          | 0.0           | 930    | 3026          | 0.0           |
| 415    | 6135          | 0.6           | 545    | 113101        | 108.4         | 675    | 36708         | 0.0           | 805    | 2648          | 0.0           | 935    | 4734          | 0.0           |
| 420    | 12146         | 2.0           | 550    | 120690        | 98.7          | 680    | 31814         | 0.0           | 810    | 3187          | 0.0           | 940    | 3719          | 0.0           |
| 425    | 23983         | 5.9           | 555    | 128583        | 87.9          | 685    | 27485         | 0.0           | 815    | 2931          | 0.0           | 945    | 1480          | 0.0           |
| 430    | 42142         | 14.3          | 560    | 137796        | 77.0          | 690    | 23698         | 0.0           | 820    | 2717          | 0.0           | 950    | 3450          | 0.0           |
| 435    | 68228         | 30.5          | 565    | 146577        | 65.8          | 695    | 20309         | 0.0           | 825    | 2236          | 0.0           | 955    | 5051          | 0.0           |
| 440    | 99323         | 55.5          | 570    | 154581        | 54.6          | 700    | 17890         | 0.0           | 830    | 2628          | 0.0           | 960    | 3176          | 0.0           |
| 445    | 115584        | 77.4          | 575    | 162633        | 44.3          | 705    | 15500         | 0.0           | 835    | 3140          | 0.0           | 965    | 5178          | 0.0           |
| 450    | 94997         | 73.6          | 580    | 168101        | 34.6          | 710    | 13699         | 0.0           | 840    | 3675          | 0.0           | 970    | 6385          | 0.0           |
| 455    | 61433         | 53.7          | 585    | 173145        | 26.5          | 715    | 12398         | 0.0           | 845    | 3283          | 0.0           | 975    | 3810          | 0.0           |
| 460    | 43373         | 41.9          | 590    | 174675        | 19.5          | 720    | 11147         | 0.0           | 850    | 3055          | 0.0           | 980    | 4322          | 0.0           |
| 465    | 32472         | 34.3          | 595    | 173724        | 13.9          | 725    | 9761          | 0.0           | 855    | 2932          | 0.0           | 985    | 4200          | 0.0           |
| 470    | 24257         | 27.9          | 600    | 171241        | 9.7           | 730    | 8651          | 0.0           | 860    | 3382          | 0.0           | 990    | 4661          | 0.0           |
| 475    | 21690         | 27.1          | 605    | 165134        | 6.5           | 735    | 7730          | 0.0           | 865    | 2605          | 0.0           | 995    | 6746          | 0.0           |
| 480    | 23173         | 31.3          | 610    | 156652        | 4.2           | 740    | 6847          | 0.0           | 870    | 3325          | 0.0           | 1000   | 4150          | 0.0           |
| 485    | 27564         | 40.0          | 615    | 147879        | 2.7           | 745    | 6124          | 0.0           | 875    | 3325          | 0.0           |        |               |               |



REPORT NUMBER: SP1-2101-121-7

**Melanopic Flux vs. Wavelength**



**Melanopic Lumens: 4490.7 M/P: 0.5**

| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360    | 2672          | 0.0           | 490    | 34553         | 28.8          | 620    | 136720        | 0.1           | 750    | 5870          | 0.0           | 880    | 4216          | 0.0           |
| 365    | 2252          | 0.0           | 495    | 44336         | 36.6          | 625    | 126308        | 0.1           | 755    | 5421          | 0.0           | 885    | 4132          | 0.0           |
| 370    | 2217          | 0.0           | 500    | 54643         | 43.9          | 630    | 114625        | 0.0           | 760    | 5097          | 0.0           | 890    | 3992          | 0.0           |
| 375    | 2697          | 0.0           | 505    | 64676         | 49.6          | 635    | 103216        | 0.0           | 765    | 4626          | 0.0           | 895    | 3214          | 0.0           |
| 380    | 3039          | 0.0           | 510    | 73825         | 53.0          | 640    | 92605         | 0.0           | 770    | 3782          | 0.0           | 900    | 2580          | 0.0           |
| 385    | 2655          | 0.0           | 515    | 81872         | 53.5          | 645    | 83234         | 0.0           | 775    | 3506          | 0.0           | 905    | 1776          | 0.0           |
| 390    | 2357          | 0.0           | 520    | 88574         | 51.6          | 650    | 73263         | 0.0           | 780    | 3507          | 0.0           | 910    | 3995          | 0.0           |
| 395    | 2186          | 0.0           | 525    | 93289         | 47.3          | 655    | 64627         | 0.0           | 785    | 3267          | 0.0           | 915    | 4288          | 0.0           |
| 400    | 2015          | 0.0           | 530    | 98393         | 42.5          | 660    | 56614         | 0.0           | 790    | 2849          | 0.0           | 920    | 2446          | 0.0           |
| 405    | 2234          | 0.0           | 535    | 103269        | 37.2          | 665    | 49537         | 0.0           | 795    | 3037          | 0.0           | 925    | 3009          | 0.0           |
| 410    | 3412          | 0.1           | 540    | 107316        | 31.4          | 670    | 42866         | 0.0           | 800    | 2716          | 0.0           | 930    | 3026          | 0.0           |
| 415    | 6135          | 0.4           | 545    | 113101        | 26.3          | 675    | 36708         | 0.0           | 805    | 2648          | 0.0           | 935    | 4734          | 0.0           |
| 420    | 12146         | 1.4           | 550    | 120690        | 21.7          | 680    | 31814         | 0.0           | 810    | 3187          | 0.0           | 940    | 3719          | 0.0           |
| 425    | 23983         | 3.7           | 555    | 128583        | 17.3          | 685    | 27485         | 0.0           | 815    | 2931          | 0.0           | 945    | 1480          | 0.0           |
| 430    | 42142         | 8.9           | 560    | 137796        | 13.6          | 690    | 23698         | 0.0           | 820    | 2717          | 0.0           | 950    | 3450          | 0.0           |
| 435    | 68228         | 18.2          | 565    | 146577        | 10.3          | 695    | 20309         | 0.0           | 825    | 2236          | 0.0           | 955    | 5051          | 0.0           |
| 440    | 99323         | 33.2          | 570    | 154581        | 7.6           | 700    | 17890         | 0.0           | 830    | 2628          | 0.0           | 960    | 3176          | 0.0           |
| 445    | 115584        | 45.6          | 575    | 162633        | 5.4           | 705    | 15500         | 0.0           | 835    | 3140          | 0.0           | 965    | 5178          | 0.0           |
| 450    | 94997         | 43.8          | 580    | 168101        | 3.8           | 710    | 13699         | 0.0           | 840    | 3675          | 0.0           | 970    | 6385          | 0.0           |
| 455    | 61433         | 32.2          | 585    | 173145        | 2.6           | 715    | 12398         | 0.0           | 845    | 3283          | 0.0           | 975    | 3810          | 0.0           |
| 460    | 43373         | 25.6          | 590    | 174675        | 1.7           | 720    | 11147         | 0.0           | 850    | 3055          | 0.0           | 980    | 4322          | 0.0           |
| 465    | 32472         | 21.2          | 595    | 173724        | 1.1           | 725    | 9761          | 0.0           | 855    | 2932          | 0.0           | 985    | 4200          | 0.0           |
| 470    | 24257         | 17.4          | 600    | 171241        | 0.7           | 730    | 8651          | 0.0           | 860    | 3382          | 0.0           | 990    | 4661          | 0.0           |
| 475    | 21690         | 16.6          | 605    | 165134        | 0.5           | 735    | 7730          | 0.0           | 865    | 2605          | 0.0           | 995    | 6746          | 0.0           |
| 480    | 23173         | 18.6          | 610    | 156652        | 0.3           | 740    | 6847          | 0.0           | 870    | 3325          | 0.0           | 1000   | 4150          | 0.0           |
| 485    | 27564         | 22.7          | 615    | 147879        | 0.2           | 745    | 6124          | 0.0           | 875    | 3325          | 0.0           |        |               |               |

**Summary**

$R_f = 76.9$   
 $R_g = 94.4$   
 CIE  $R_a = 73.1$   
 $R_g = -34.6$



**Color Vector Graphics**



**Individual Sample Fidelity Index ( $R_{f,i}$ )**

|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 68 | CES51 = 90 | CES76 = 63 |
| CES02 = 62 | CES27 = 88 | CES52 = 89 | CES77 = 80 |
| CES03 = 31 | CES28 = 87 | CES53 = 80 | CES78 = 65 |
| CES04 = 70 | CES29 = 67 | CES54 = 84 | CES79 = 87 |
| CES05 = 48 | CES30 = 74 | CES55 = 84 | CES80 = 86 |
| CES06 = 51 | CES31 = 71 | CES56 = 75 | CES81 = 75 |
| CES07 = 40 | CES32 = 67 | CES57 = 74 | CES82 = 94 |
| CES08 = 39 | CES33 = 74 | CES58 = 76 | CES83 = 91 |
| CES09 = 29 | CES34 = 78 | CES59 = 87 | CES84 = 89 |
| CES10 = 75 | CES35 = 89 | CES60 = 93 | CES85 = 80 |
| CES11 = 58 | CES36 = 98 | CES61 = 86 | CES86 = 66 |
| CES12 = 64 | CES37 = 86 | CES62 = 89 | CES87 = 79 |
| CES13 = 43 | CES38 = 82 | CES63 = 77 | CES88 = 79 |
| CES14 = 74 | CES39 = 95 | CES64 = 74 | CES89 = 70 |
| CES15 = 71 | CES40 = 91 | CES65 = 68 | CES90 = 77 |
| CES16 = 47 | CES41 = 89 | CES66 = 71 | CES91 = 88 |
| CES17 = 50 | CES42 = 88 | CES67 = 69 | CES92 = 60 |
| CES18 = 56 | CES43 = 82 | CES68 = 74 | CES93 = 77 |
| CES19 = 72 | CES44 = 99 | CES69 = 82 | CES94 = 52 |
| CES20 = 65 | CES45 = 87 | CES70 = 67 | CES95 = 69 |
| CES21 = 86 | CES46 = 82 | CES71 = 66 | CES96 = 78 |
| CES22 = 79 | CES47 = 82 | CES72 = 88 | CES97 = 85 |
| CES23 = 92 | CES48 = 72 | CES73 = 59 | CES98 = 76 |
| CES24 = 91 | CES49 = 82 | CES74 = 97 | CES99 = 63 |
| CES25 = 72 | CES50 = 88 | CES75 = 66 |            |



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)