

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: P437160

Luminaire Tested: **ISC-SA1B-735-U-SLL**

Issue Date: 12/9/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P437160  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-074-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/9/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISC-SA1B-735-U-SLL  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 3500K, 450mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2871 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

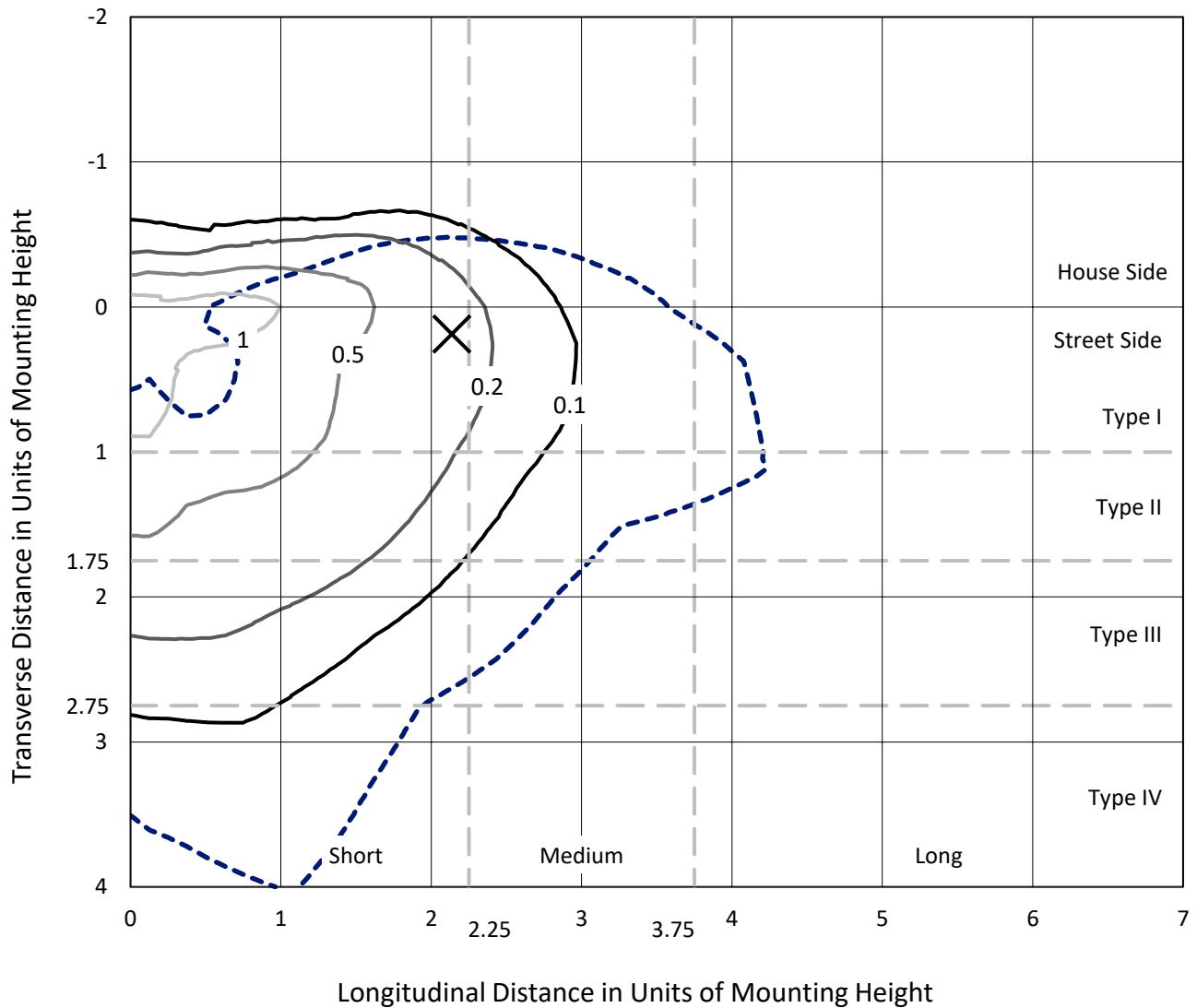
Input Watts (W): 25.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P437160  
 CATALOG NUMBER: ISC-SA1B-735-U-SLL

### Iso-Footcandle Lines of Horizontal Illumination

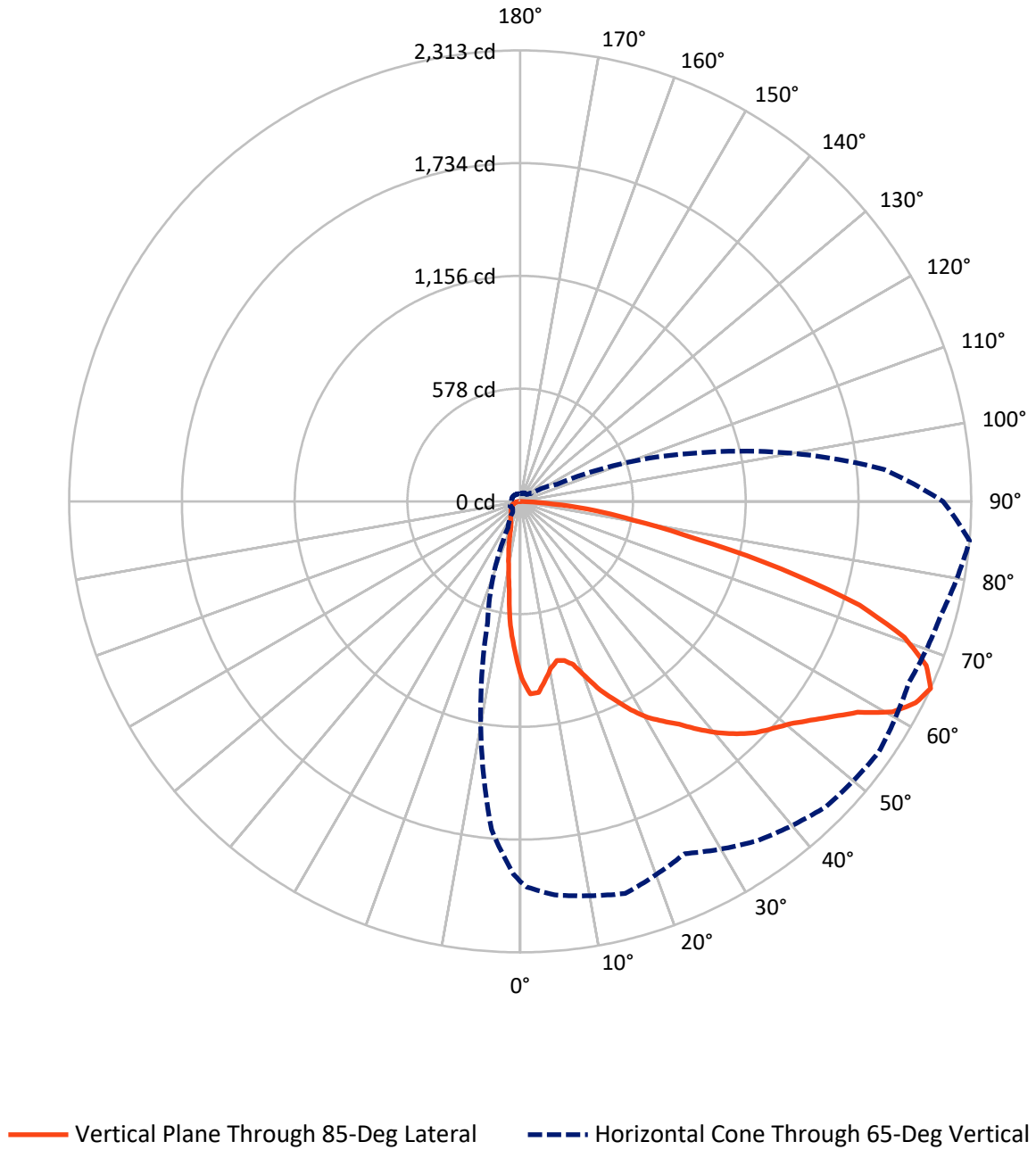
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type IV - Short - N/A

REPORT NUMBER: P437160  
CATALOG NUMBER: ISC-SA1B-735-U-SLL

### Luminous Intensity Polar Plot



REPORT NUMBER: P437160  
 CATALOG NUMBER: ISC-SA1B-735-U-SLL

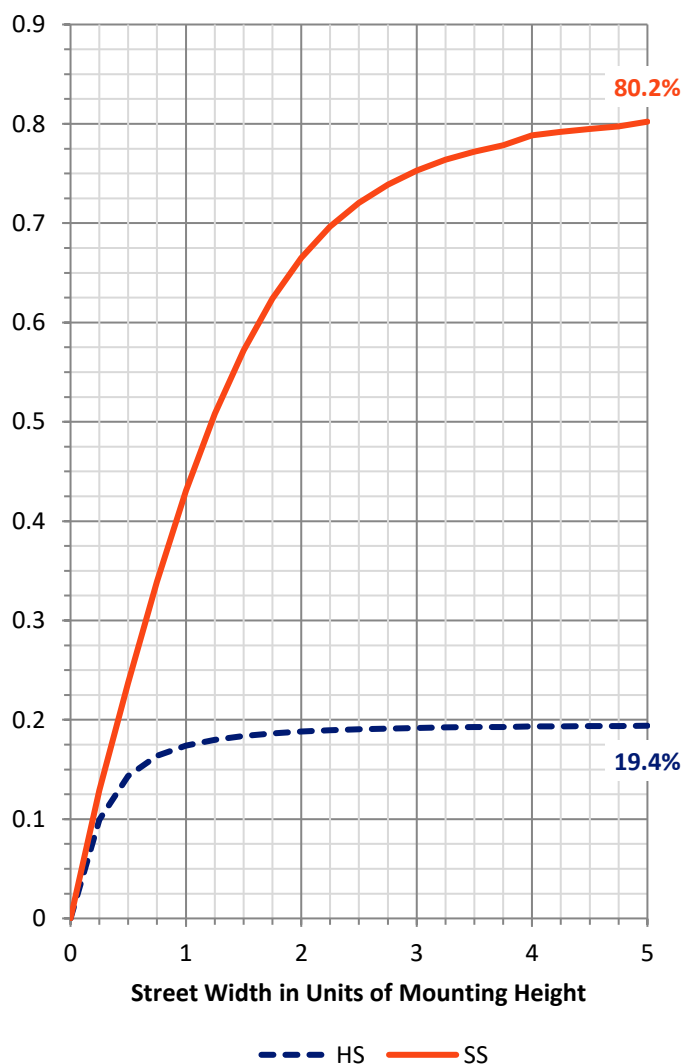
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 561.9    | 0.0    | 561.9  |
|                    | % Fixture | 19.6     | 0.0    | 19.6   |
| <b>Street Side</b> | Lumens    | 2309.1   | 0.0    | 2309.1 |
|                    | % Fixture | 80.4     | 0.0    | 80.4   |
| <b>Total</b>       | Lumens    | 2871.0   | 0.0    | 2871.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 69.1   | 2.4       |
| 10°-20°   | 143.6  | 5.0       |
| 20°-30°   | 206.5  | 7.2       |
| 30°-40°   | 296.5  | 10.3      |
| 40°-50°   | 419.7  | 14.6      |
| 50°-60°   | 583.6  | 20.3      |
| 60°-70°   | 694.9  | 24.2      |
| 70°-80°   | 401.7  | 14.0      |
| 80°-90°   | 55.5   | 1.9       |
| 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°    | 2871.0 | 100.0     |
| 0°-180°   | 2871.0 | 100.0     |

**Coefficient of Utilization**

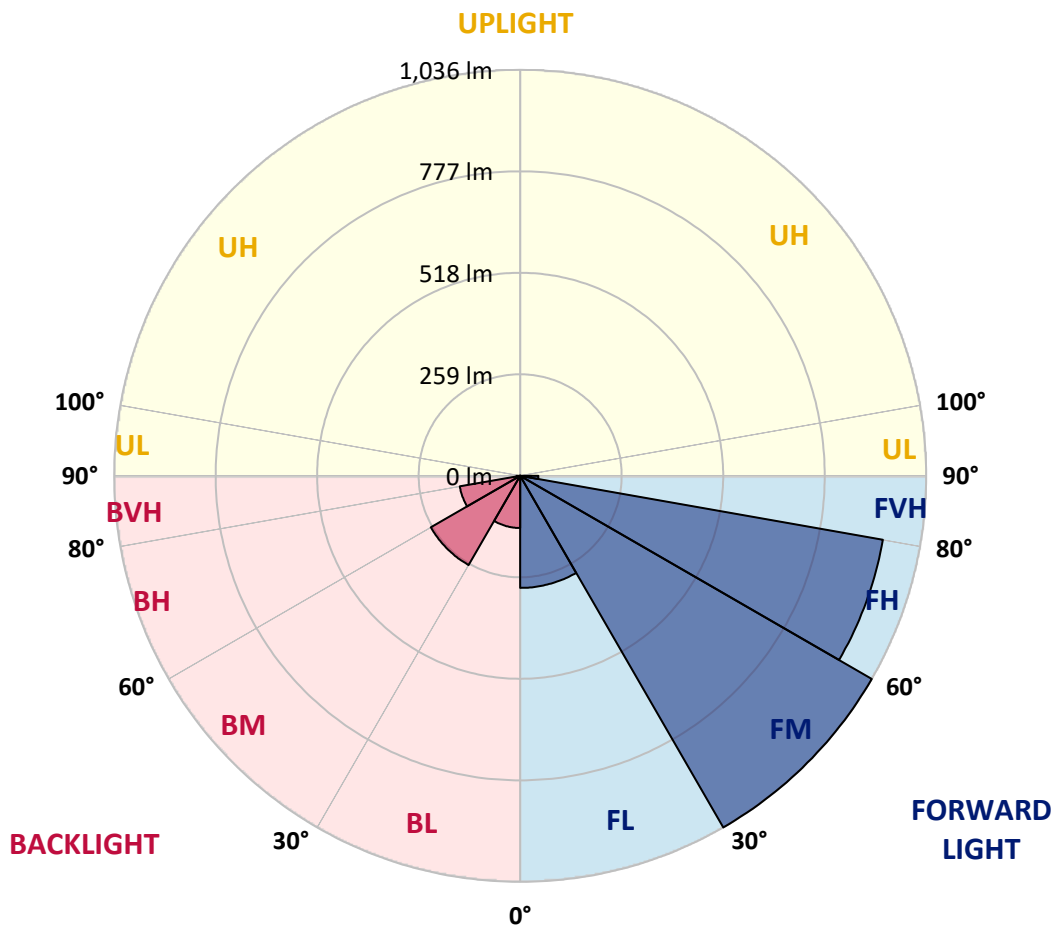


REPORT NUMBER: P437160  
 CATALOG NUMBER: ISC-SA1B-735-U-SLL

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 286.1  | 10.0      |                         |      |         |
| FM (30°-60°)   | 1036.5 | 36.1      |                         |      |         |
| FH (60°-80°)   | 940.1  | 32.7      |                         |      | G1/1800 |
| FVH (80°-90°)  | 46.5   | 1.6       |                         |      | G1/100  |
| BL (0°-30°)    | 133.1  | 4.6       | B1/500                  |      |         |
| BM (30°-60°)   | 263.3  | 9.2       | B1/1000                 |      |         |
| BH (60°-80°)   | 156.4  | 5.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 9.1    | 0.3       |                         |      | 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 IV Short





REPORT NUMBER: P437160  
 CATALOG NUMBER: ISC-SA1B-735-U-SLL

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 907.0  | 907.0  | 907.0  | 907.0  | 907.0  | 907.0  | 907.0  | 907.0  | 907.0  | 907.0  | 907.0  |
| 2.5°  | 950.4  | 953.9  | 962.1  | 990.3  | 1007.9 | 1022.0 | 1039.6 | 1022.0 | 1017.3 | 993.8  | 989.1  |
| 5°    | 916.4  | 924.6  | 948.0  | 1000.8 | 1044.3 | 1090.0 | 1113.5 | 1093.5 | 1066.5 | 1025.5 | 984.4  |
| 7.5°  | 849.5  | 860.0  | 890.6  | 972.7  | 1054.8 | 1117.0 | 1147.5 | 1126.4 | 1071.2 | 998.5  | 924.6  |
| 10°   | 781.4  | 797.9  | 834.2  | 937.5  | 1024.3 | 1093.5 | 1140.5 | 1118.2 | 1051.3 | 956.3  | 868.3  |
| 12.5° | 740.4  | 752.1  | 793.2  | 901.1  | 992.6  | 1061.9 | 1097.1 | 1084.1 | 1022.0 | 931.6  | 837.8  |
| 15°   | 731.0  | 742.7  | 783.8  | 888.2  | 969.2  | 1020.8 | 1029.0 | 1032.5 | 1009.1 | 939.8  | 846.0  |
| 17.5° | 756.8  | 766.2  | 822.5  | 909.3  | 942.2  | 952.7  | 965.6  | 980.9  | 992.6  | 956.3  | 880.0  |
| 20°   | 819.0  | 837.8  | 887.0  | 952.7  | 935.1  | 910.5  | 917.5  | 936.3  | 980.9  | 1004.4 | 958.6  |
| 22.5° | 902.3  | 923.4  | 985.6  | 1012.6 | 939.8  | 887.0  | 881.2  | 897.6  | 979.7  | 1057.2 | 1052.5 |
| 25°   | 995.0  | 1024.3 | 1091.2 | 1092.4 | 959.8  | 870.6  | 858.9  | 874.1  | 977.4  | 1104.1 | 1127.6 |
| 27.5° | 1091.2 | 1118.2 | 1190.9 | 1154.5 | 998.5  | 871.8  | 857.7  | 873.0  | 983.2  | 1154.5 | 1210.9 |
| 30°   | 1162.8 | 1198.0 | 1261.3 | 1213.2 | 1023.1 | 887.0  | 865.9  | 885.9  | 996.1  | 1180.4 | 1284.8 |
| 32.5° | 1235.5 | 1257.8 | 1324.7 | 1247.2 | 1050.1 | 910.5  | 883.5  | 914.0  | 1029.0 | 1205.0 | 1343.5 |
| 35°   | 1300.0 | 1329.4 | 1397.4 | 1267.2 | 1090.0 | 950.4  | 915.2  | 955.1  | 1075.9 | 1240.2 | 1403.3 |
| 37.5° | 1382.2 | 1410.3 | 1472.5 | 1295.3 | 1122.9 | 1000.8 | 971.5  | 1023.1 | 1133.4 | 1271.9 | 1483.1 |
| 40°   | 1454.9 | 1499.5 | 1546.4 | 1330.5 | 1160.4 | 1074.8 | 1056.0 | 1126.4 | 1210.9 | 1315.3 | 1560.5 |
| 42.5° | 1526.5 | 1564.0 | 1615.7 | 1370.4 | 1208.5 | 1165.1 | 1173.3 | 1247.2 | 1304.7 | 1381.0 | 1629.7 |
| 45°   | 1578.1 | 1621.5 | 1667.3 | 1402.1 | 1270.7 | 1262.5 | 1317.6 | 1379.8 | 1400.9 | 1450.2 | 1691.9 |
| 47.5° | 1628.6 | 1662.6 | 1703.7 | 1433.8 | 1345.8 | 1371.6 | 1467.8 | 1515.9 | 1494.8 | 1512.4 | 1741.2 |
| 50°   | 1695.4 | 1731.8 | 1743.6 | 1484.3 | 1440.8 | 1510.1 | 1614.5 | 1646.2 | 1585.2 | 1561.7 | 1792.8 |
| 52.5° | 1791.7 | 1809.3 | 1803.4 | 1544.1 | 1531.2 | 1654.4 | 1740.0 | 1788.1 | 1679.0 | 1608.6 | 1864.4 |
| 55°   | 1920.7 | 1951.2 | 1913.7 | 1641.5 | 1623.9 | 1792.8 | 1892.6 | 1916.0 | 1783.4 | 1667.3 | 1946.5 |
| 57.5° | 2043.9 | 2070.9 | 2059.2 | 1760.0 | 1744.7 | 1912.5 | 2008.7 | 2031.0 | 1885.5 | 1776.4 | 2040.4 |
| 60°   | 2089.7 | 2097.9 | 2140.1 | 1885.5 | 1865.6 | 2014.6 | 2123.7 | 2127.2 | 2007.6 | 1907.8 | 2192.9 |
| 62.5° | 2040.4 | 2073.3 | 2114.3 | 2002.9 | 1938.3 | 2102.6 | 2200.0 | 2222.3 | 2123.7 | 2067.4 | 2276.2 |
| 65°   | 1948.9 | 1978.2 | 2026.3 | 2081.5 | 1993.5 | 2123.7 | 2215.2 | 2243.4 | 2198.8 | 2235.2 | 2312.6 |
| 67.5° | 1843.3 | 1879.7 | 1912.5 | 2094.4 | 1986.4 | 2002.9 | 2079.1 | 2096.7 | 2158.9 | 2309.1 | 2245.7 |
| 70°   | 1707.2 | 1748.2 | 1776.4 | 2043.9 | 1818.6 | 1655.6 | 1709.5 | 1757.6 | 1852.7 | 2177.7 | 2089.7 |
| 72.5° | 1413.9 | 1479.6 | 1550.0 | 1815.1 | 1471.3 | 1286.0 | 1328.2 | 1359.9 | 1427.9 | 1859.7 | 1819.8 |
| 75°   | 995.0  | 1043.1 | 1129.9 | 1462.0 | 1129.9 | 910.5  | 976.2  | 976.2  | 1061.9 | 1527.7 | 1382.2 |
| 77.5° | 594.9  | 596.0  | 680.5  | 962.1  | 687.6  | 613.6  | 651.2  | 668.8  | 694.6  | 1081.8 | 917.5  |
| 80°   | 336.7  | 341.4  | 369.6  | 621.9  | 407.1  | 418.9  | 463.5  | 510.4  | 471.7  | 671.1  | 590.2  |
| 82.5° | 157.2  | 138.5  | 146.7  | 293.3  | 231.1  | 273.4  | 280.4  | 301.5  | 303.9  | 429.4  | 387.2  |
| 85°   | 12.9   | 10.6   | 14.1   | 52.8   | 41.1   | 37.5   | 27.0   | 51.6   | 81.0   | 187.7  | 166.6  |
| 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: P437160  
 CATALOG NUMBER: ISC-SA1B-735-U-SLL

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 907.0  | 907.0  | 907.0  | 907.0 | 907.0 | 907.0 | 907.0 | 907.0 | 907.0 | 907.0 | 907.0 |
| 2.5°  | 973.9  | 962.1  | 936.3  | 916.4 | 897.6 | 862.4 | 848.3 | 828.4 | 817.8 | 799.0 | 803.7 |
| 5°    | 953.9  | 926.9  | 868.3  | 828.4 | 776.7 | 734.5 | 708.7 | 685.2 | 675.8 | 655.9 | 648.8 |
| 7.5°  | 881.2  | 857.7  | 783.8  | 718.1 | 654.7 | 604.3 | 556.2 | 521.0 | 504.5 | 486.9 | 485.8 |
| 10°   | 819.0  | 780.3  | 695.8  | 618.3 | 545.6 | 498.7 | 463.5 | 434.1 | 408.3 | 386.0 | 373.1 |
| 12.5° | 783.8  | 735.7  | 641.8  | 547.9 | 497.5 | 464.6 | 425.9 | 389.5 | 360.2 | 334.4 | 319.1 |
| 15°   | 783.8  | 727.5  | 616.0  | 524.5 | 474.0 | 424.7 | 380.2 | 342.6 | 303.9 | 273.4 | 264.0 |
| 17.5° | 820.2  | 750.9  | 621.9  | 509.2 | 437.6 | 382.5 | 326.2 | 276.9 | 239.4 | 212.4 | 203.0 |
| 20°   | 891.7  | 808.4  | 635.9  | 491.6 | 402.4 | 326.2 | 258.1 | 205.3 | 171.3 | 158.4 | 156.1 |
| 22.5° | 975.0  | 877.6  | 657.1  | 475.2 | 366.1 | 266.3 | 193.6 | 156.1 | 140.8 | 136.1 | 136.1 |
| 25°   | 1066.5 | 955.1  | 684.0  | 457.6 | 328.5 | 211.2 | 147.8 | 130.2 | 124.4 | 122.0 | 122.0 |
| 27.5° | 1152.2 | 1039.6 | 732.2  | 450.6 | 293.3 | 171.3 | 129.1 | 116.2 | 112.6 | 110.3 | 111.5 |
| 30°   | 1235.5 | 1114.7 | 781.4  | 436.5 | 254.6 | 149.0 | 116.2 | 106.8 | 102.1 | 100.9 | 102.1 |
| 32.5° | 1307.1 | 1179.2 | 815.5  | 415.4 | 227.6 | 133.8 | 107.9 | 98.6  | 93.9  | 92.7  | 93.9  |
| 35°   | 1389.2 | 1242.5 | 849.5  | 400.1 | 213.5 | 124.4 | 102.1 | 92.7  | 88.0  | 85.7  | 85.7  |
| 37.5° | 1485.4 | 1318.8 | 875.3  | 377.8 | 204.2 | 115.0 | 97.4  | 88.0  | 82.1  | 79.8  | 79.8  |
| 40°   | 1614.5 | 1411.5 | 896.4  | 360.2 | 193.6 | 110.3 | 91.5  | 83.3  | 77.4  | 75.1  | 73.9  |
| 42.5° | 1703.7 | 1492.5 | 914.0  | 348.5 | 183.0 | 107.9 | 88.0  | 81.0  | 73.9  | 70.4  | 69.2  |
| 45°   | 1764.7 | 1564.0 | 925.7  | 342.6 | 173.7 | 102.1 | 85.7  | 78.6  | 70.4  | 65.7  | 65.7  |
| 47.5° | 1823.3 | 1622.7 | 926.9  | 334.4 | 166.6 | 95.0  | 89.2  | 75.1  | 66.9  | 62.2  | 62.2  |
| 50°   | 1889.0 | 1696.6 | 949.2  | 326.2 | 158.4 | 86.8  | 88.0  | 73.9  | 64.5  | 59.8  | 58.7  |
| 52.5° | 1954.8 | 1797.5 | 992.6  | 314.4 | 146.7 | 79.8  | 83.3  | 75.1  | 62.2  | 57.5  | 56.3  |
| 55°   | 2072.1 | 1923.1 | 1046.6 | 296.9 | 131.4 | 72.7  | 77.4  | 73.9  | 58.7  | 54.0  | 52.8  |
| 57.5° | 2148.3 | 2040.4 | 1088.8 | 278.1 | 109.1 | 68.1  | 68.1  | 71.6  | 55.1  | 50.5  | 49.3  |
| 60°   | 2191.8 | 2062.7 | 1097.1 | 255.8 | 89.2  | 61.0  | 58.7  | 72.7  | 51.6  | 45.8  | 45.8  |
| 62.5° | 2190.6 | 1986.4 | 1056.0 | 234.7 | 77.4  | 56.3  | 52.8  | 63.4  | 48.1  | 43.4  | 42.2  |
| 65°   | 2168.3 | 1873.8 | 963.3  | 207.7 | 72.7  | 51.6  | 46.9  | 48.1  | 44.6  | 39.9  | 38.7  |
| 67.5° | 2072.1 | 1679.0 | 815.5  | 180.7 | 70.4  | 46.9  | 43.4  | 41.1  | 38.7  | 35.2  | 34.0  |
| 70°   | 1838.6 | 1459.6 | 635.9  | 167.8 | 69.2  | 41.1  | 37.5  | 35.2  | 32.9  | 30.5  | 30.5  |
| 72.5° | 1494.8 | 1138.1 | 485.8  | 160.7 | 70.4  | 37.5  | 31.7  | 30.5  | 28.2  | 27.0  | 25.8  |
| 75°   | 1034.9 | 841.3  | 352.0  | 142.0 | 68.1  | 31.7  | 27.0  | 24.6  | 23.5  | 21.1  | 21.1  |
| 77.5° | 665.3  | 550.3  | 233.5  | 113.8 | 55.1  | 25.8  | 19.9  | 18.8  | 17.6  | 16.4  | 16.4  |
| 80°   | 437.6  | 374.3  | 136.1  | 81.0  | 34.0  | 17.6  | 14.1  | 14.1  | 12.9  | 10.6  | 10.6  |
| 82.5° | 278.1  | 282.8  | 70.4   | 37.5  | 19.9  | 10.6  | 8.2   | 7.0   | 7.0   | 4.7   | 4.7   |
| 85°   | 61.0   | 106.8  | 31.7   | 15.3  | 7.0   | 1.2   | 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: P437160  
 CATALOG NUMBER: ISC-SA1B-735-U-SLL

**CANDELA DISTRIBUTION (continued):**

|       | 185°  | 195°  | 205°  | 215°  | 225°  | 235°  | 245°  | 255°  | 265°  | 270°  | 275°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 907.0 | 907.0 | 907.0 | 907.0 | 907.0 | 907.0 | 907.0 | 907.0 | 907.0 | 907.0 | 907.0 |
| 2.5°  | 787.3 | 777.9 | 774.4 | 774.4 | 759.1 | 760.3 | 760.3 | 769.7 | 768.5 | 776.7 | 773.2 |
| 5°    | 640.6 | 631.2 | 631.2 | 633.6 | 635.9 | 625.4 | 628.9 | 619.5 | 637.1 | 624.2 | 614.8 |
| 7.5°  | 472.8 | 471.7 | 479.9 | 498.7 | 495.1 | 491.6 | 484.6 | 467.0 | 457.6 | 467.0 | 462.3 |
| 10°   | 362.6 | 366.1 | 363.7 | 371.9 | 373.1 | 371.9 | 360.2 | 356.7 | 352.0 | 356.7 | 362.6 |
| 12.5° | 303.9 | 289.8 | 274.6 | 273.4 | 282.8 | 282.8 | 281.6 | 282.8 | 286.3 | 286.3 | 291.0 |
| 15°   | 253.4 | 244.1 | 224.1 | 214.7 | 221.8 | 217.1 | 218.2 | 222.9 | 226.5 | 231.1 | 228.8 |
| 17.5° | 201.8 | 193.6 | 184.2 | 178.3 | 181.9 | 178.3 | 177.2 | 176.0 | 176.0 | 174.8 | 179.5 |
| 20°   | 153.7 | 152.5 | 156.1 | 153.7 | 154.9 | 152.5 | 149.0 | 144.3 | 140.8 | 143.1 | 145.5 |
| 22.5° | 133.8 | 134.9 | 137.3 | 139.6 | 139.6 | 137.3 | 131.4 | 126.7 | 125.5 | 125.5 | 126.7 |
| 25°   | 123.2 | 123.2 | 126.7 | 127.9 | 129.1 | 125.5 | 118.5 | 115.0 | 115.0 | 115.0 | 115.0 |
| 27.5° | 111.5 | 113.8 | 116.2 | 118.5 | 119.7 | 116.2 | 110.3 | 106.8 | 106.8 | 105.6 | 104.4 |
| 30°   | 103.3 | 104.4 | 106.8 | 107.9 | 109.1 | 105.6 | 102.1 | 98.6  | 98.6  | 98.6  | 97.4  |
| 32.5° | 93.9  | 97.4  | 98.6  | 99.7  | 100.9 | 98.6  | 95.0  | 92.7  | 91.5  | 90.3  | 88.0  |
| 35°   | 86.8  | 88.0  | 91.5  | 91.5  | 92.7  | 91.5  | 89.2  | 86.8  | 83.3  | 82.1  | 82.1  |
| 37.5° | 79.8  | 79.8  | 82.1  | 84.5  | 86.8  | 85.7  | 82.1  | 78.6  | 77.4  | 77.4  | 77.4  |
| 40°   | 75.1  | 73.9  | 75.1  | 78.6  | 81.0  | 81.0  | 76.3  | 73.9  | 73.9  | 72.7  | 72.7  |
| 42.5° | 69.2  | 69.2  | 69.2  | 72.7  | 77.4  | 75.1  | 70.4  | 70.4  | 70.4  | 69.2  | 69.2  |
| 45°   | 65.7  | 64.5  | 65.7  | 65.7  | 71.6  | 68.1  | 66.9  | 65.7  | 66.9  | 65.7  | 66.9  |
| 47.5° | 61.0  | 61.0  | 61.0  | 62.2  | 65.7  | 63.4  | 62.2  | 62.2  | 63.4  | 63.4  | 63.4  |
| 50°   | 57.5  | 57.5  | 57.5  | 58.7  | 59.8  | 59.8  | 59.8  | 59.8  | 59.8  | 61.0  | 61.0  |
| 52.5° | 55.1  | 54.0  | 55.1  | 55.1  | 56.3  | 57.5  | 56.3  | 57.5  | 57.5  | 57.5  | 58.7  |
| 55°   | 52.8  | 51.6  | 52.8  | 52.8  | 55.1  | 54.0  | 54.0  | 55.1  | 55.1  | 56.3  | 57.5  |
| 57.5° | 49.3  | 48.1  | 50.5  | 50.5  | 52.8  | 52.8  | 51.6  | 52.8  | 52.8  | 54.0  | 54.0  |
| 60°   | 45.8  | 45.8  | 46.9  | 46.9  | 49.3  | 50.5  | 50.5  | 50.5  | 50.5  | 50.5  | 50.5  |
| 62.5° | 42.2  | 42.2  | 43.4  | 44.6  | 46.9  | 46.9  | 48.1  | 48.1  | 48.1  | 48.1  | 46.9  |
| 65°   | 38.7  | 39.9  | 41.1  | 41.1  | 43.4  | 44.6  | 44.6  | 44.6  | 44.6  | 44.6  | 44.6  |
| 67.5° | 34.0  | 36.4  | 37.5  | 38.7  | 41.1  | 41.1  | 42.2  | 42.2  | 41.1  | 41.1  | 41.1  |
| 70°   | 30.5  | 31.7  | 32.9  | 34.0  | 37.5  | 37.5  | 38.7  | 38.7  | 37.5  | 37.5  | 38.7  |
| 72.5° | 25.8  | 27.0  | 28.2  | 30.5  | 34.0  | 34.0  | 35.2  | 35.2  | 34.0  | 34.0  | 34.0  |
| 75°   | 22.3  | 22.3  | 23.5  | 25.8  | 30.5  | 30.5  | 30.5  | 31.7  | 30.5  | 30.5  | 29.3  |
| 77.5° | 16.4  | 17.6  | 18.8  | 22.3  | 25.8  | 27.0  | 27.0  | 27.0  | 25.8  | 25.8  | 24.6  |
| 80°   | 10.6  | 11.7  | 14.1  | 16.4  | 19.9  | 21.1  | 22.3  | 22.3  | 21.1  | 21.1  | 19.9  |
| 82.5° | 4.7   | 7.0   | 8.2   | 10.6  | 12.9  | 16.4  | 16.4  | 17.6  | 16.4  | 15.3  | 15.3  |
| 85°   | 0.0   | 0.0   | 1.2   | 3.5   | 5.9   | 9.4   | 10.6  | 11.7  | 10.6  | 9.4   | 9.4   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 2.3   | 2.3   | 2.3   | 1.2   | 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: P437160  
 CATALOG NUMBER: ISC-SA1B-735-U-SLL

**CANDELA DISTRIBUTION (continued):**

|       | 285°  | 295°  | 305°  | 315°  | 325°  | 335°  | 345°  | 355°   | 359°   | 360°   |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 0°    | 907.0 | 907.0 | 907.0 | 907.0 | 907.0 | 907.0 | 907.0 | 907.0  | 907.0  | 907.0  |
| 2.5°  | 786.1 | 799.0 | 819.0 | 830.7 | 857.7 | 882.3 | 908.2 | 942.2  | 949.2  | 950.4  |
| 5°    | 624.2 | 639.5 | 677.0 | 692.3 | 741.5 | 781.4 | 840.1 | 897.6  | 912.8  | 916.4  |
| 7.5°  | 476.4 | 488.1 | 529.2 | 558.5 | 612.5 | 668.8 | 743.9 | 811.9  | 846.0  | 849.5  |
| 10°   | 371.9 | 403.6 | 435.3 | 478.7 | 525.6 | 580.8 | 659.4 | 746.2  | 783.8  | 781.4  |
| 12.5° | 313.3 | 346.1 | 384.8 | 428.3 | 476.4 | 525.6 | 597.2 | 693.4  | 731.0  | 740.4  |
| 15°   | 251.1 | 291.0 | 333.2 | 377.8 | 434.1 | 482.2 | 565.5 | 672.3  | 718.1  | 731.0  |
| 17.5° | 194.8 | 226.5 | 267.5 | 325.0 | 380.2 | 448.2 | 553.8 | 692.3  | 743.9  | 756.8  |
| 20°   | 153.7 | 177.2 | 206.5 | 261.7 | 332.0 | 416.5 | 547.9 | 729.8  | 800.2  | 819.0  |
| 22.5° | 131.4 | 140.8 | 161.9 | 210.0 | 283.9 | 382.5 | 544.4 | 782.6  | 870.6  | 902.3  |
| 25°   | 117.3 | 123.2 | 134.9 | 165.4 | 235.8 | 353.2 | 550.3 | 848.3  | 969.2  | 995.0  |
| 27.5° | 106.8 | 111.5 | 117.3 | 139.6 | 204.2 | 327.4 | 560.8 | 922.2  | 1053.6 | 1091.2 |
| 30°   | 97.4  | 100.9 | 109.1 | 124.4 | 178.3 | 301.5 | 564.4 | 995.0  | 1128.7 | 1162.8 |
| 32.5° | 90.3  | 95.0  | 102.1 | 115.0 | 163.1 | 283.9 | 555.0 | 1050.1 | 1198.0 | 1235.5 |
| 35°   | 83.3  | 89.2  | 96.2  | 106.8 | 150.2 | 268.7 | 533.9 | 1095.9 | 1263.7 | 1300.0 |
| 37.5° | 79.8  | 83.3  | 90.3  | 98.6  | 140.8 | 253.4 | 515.1 | 1141.6 | 1331.7 | 1382.2 |
| 40°   | 75.1  | 78.6  | 85.7  | 92.7  | 129.1 | 237.0 | 502.2 | 1200.3 | 1409.2 | 1454.9 |
| 42.5° | 71.6  | 76.3  | 82.1  | 90.3  | 119.7 | 219.4 | 489.3 | 1247.2 | 1478.4 | 1526.5 |
| 45°   | 69.2  | 73.9  | 79.8  | 90.3  | 111.5 | 205.3 | 475.2 | 1288.3 | 1531.2 | 1578.1 |
| 47.5° | 65.7  | 71.6  | 79.8  | 86.8  | 107.9 | 195.9 | 475.2 | 1337.6 | 1579.3 | 1628.6 |
| 50°   | 64.5  | 70.4  | 83.3  | 84.5  | 105.6 | 192.4 | 495.1 | 1393.9 | 1648.5 | 1695.4 |
| 52.5° | 63.4  | 69.2  | 83.3  | 79.8  | 103.3 | 194.8 | 525.6 | 1496.0 | 1737.7 | 1791.7 |
| 55°   | 59.8  | 68.1  | 79.8  | 73.9  | 97.4  | 197.1 | 559.7 | 1629.7 | 1870.3 | 1920.7 |
| 57.5° | 57.5  | 66.9  | 75.1  | 68.1  | 89.2  | 193.6 | 605.4 | 1749.4 | 2008.7 | 2043.9 |
| 60°   | 54.0  | 65.7  | 65.7  | 63.4  | 79.8  | 183.0 | 657.1 | 1825.7 | 2061.5 | 2089.7 |
| 62.5° | 51.6  | 64.5  | 58.7  | 58.7  | 72.7  | 166.6 | 674.7 | 1806.9 | 2009.9 | 2040.4 |
| 65°   | 48.1  | 56.3  | 52.8  | 54.0  | 66.9  | 147.8 | 644.2 | 1689.6 | 1912.5 | 1948.9 |
| 67.5° | 44.6  | 48.1  | 46.9  | 49.3  | 64.5  | 129.1 | 562.0 | 1550.0 | 1787.0 | 1843.3 |
| 70°   | 39.9  | 42.2  | 42.2  | 44.6  | 61.0  | 116.2 | 469.3 | 1370.4 | 1623.9 | 1707.2 |
| 72.5° | 36.4  | 37.5  | 37.5  | 41.1  | 57.5  | 109.1 | 370.8 | 1162.8 | 1362.2 | 1413.9 |
| 75°   | 30.5  | 32.9  | 32.9  | 35.2  | 51.6  | 92.7  | 253.4 | 851.8  | 952.7  | 995.0  |
| 77.5° | 27.0  | 27.0  | 28.2  | 29.3  | 41.1  | 62.2  | 149.0 | 524.5  | 572.6  | 594.9  |
| 80°   | 21.1  | 22.3  | 21.1  | 21.1  | 25.8  | 41.1  | 81.0  | 307.4  | 348.5  | 336.7  |
| 82.5° | 15.3  | 15.3  | 12.9  | 12.9  | 15.3  | 22.3  | 35.2  | 159.6  | 163.1  | 157.2  |
| 85°   | 8.2   | 5.9   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 34.0   | 16.4   | 12.9   |
| 87.5° | 0.0   | 0.0   | 0.0   | 1.2   | 1.2   | 1.2   | 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    |

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.

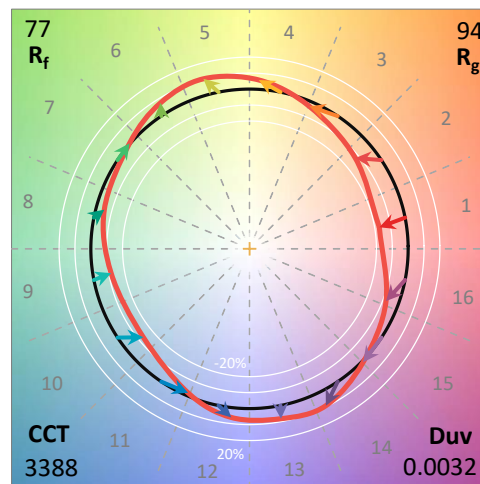
**Spectral Parameters**

CCT (K): 3388  
 CIE u': 0.2371  
 CIE v': 0.5177  
 Duv: 0.0032  
 CIE x: 0.4153  
 CIE y: 0.4030  
 CIE z: 0.1817  
 Peak Wavelength (nm): 590  
 Dominant Wavelength (nm): 580  
 Purity: 45.7  
  
 Rf: 76.9  
 Rg: 94.4

|           |      |      |       |
|-----------|------|------|-------|
| CRI (Ra): | 73.1 |      |       |
| R1:       | 68.9 | R9:  | -34.6 |
| R2:       | 81.1 | R10: | 57.8  |
| R3:       | 93.1 | R11: | 68.6  |
| R4:       | 71.6 | R12: | 53.9  |
| R5:       | 69.4 | R13: | 70.9  |
| R6:       | 75.0 | R14: | 96.2  |
| R7:       | 79.5 |      |       |
| R8:       | 46.4 |      |       |

**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            |

REPORT NUMBER: SP1-2101-121-7

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

REPORT NUMBER: SP1-2101-121-7

**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)