

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



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P631446

Luminaire Tested: GWS-SA1F-760-U-SLR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631446
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-41)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-760-U-SLR-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: (16) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8048 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

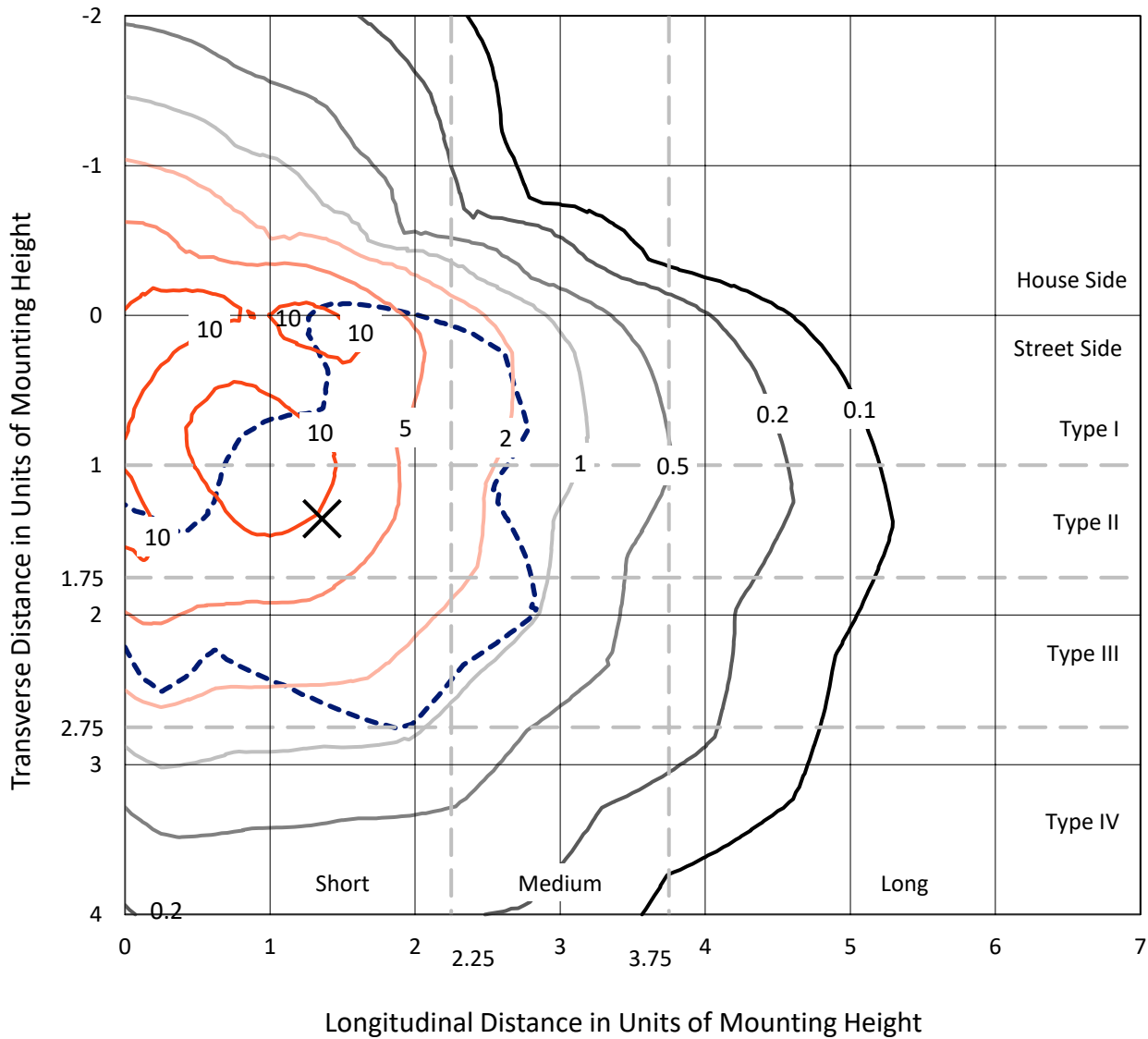
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P631446
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Iso-Footcandle Lines of Horizontal Illumination

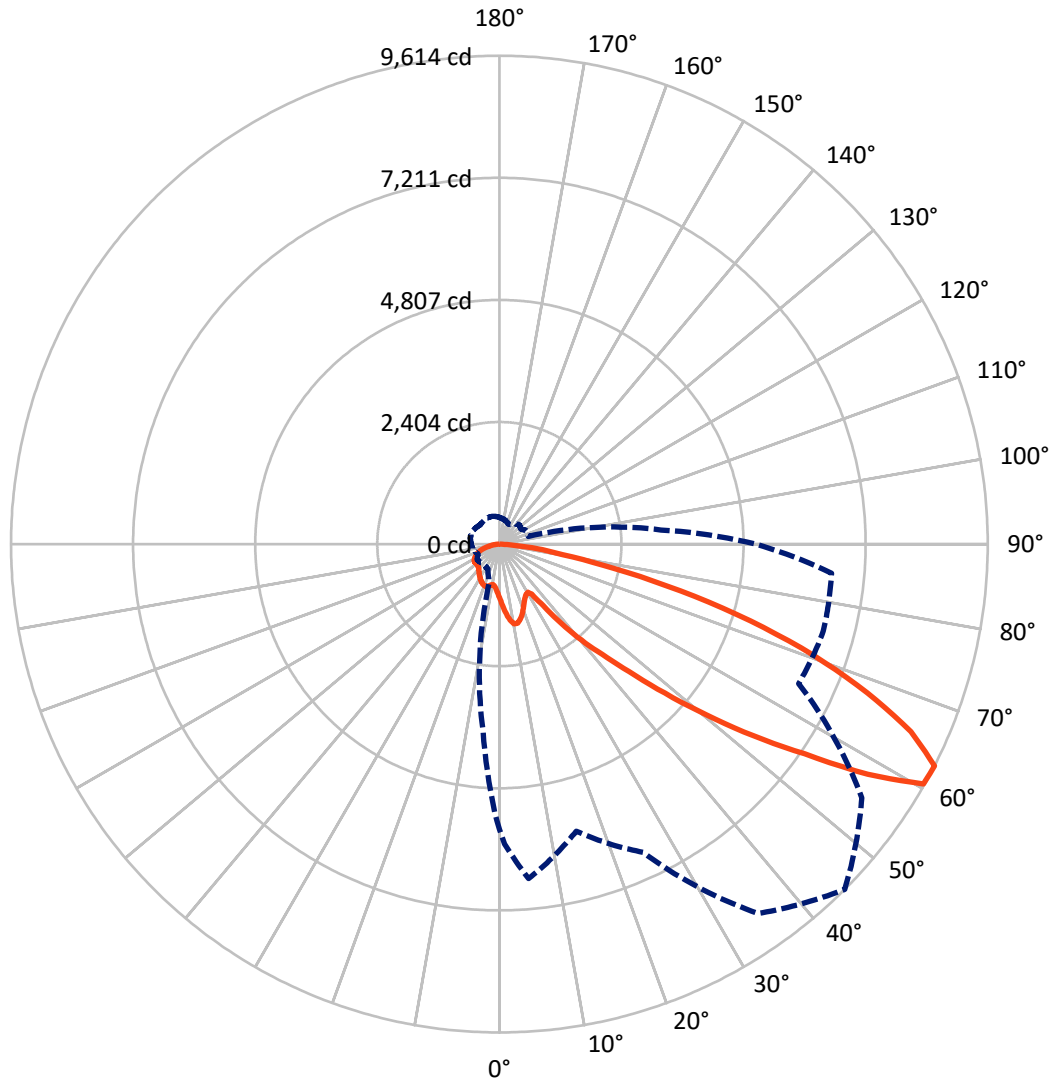
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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CATALOG NUMBER: GWS-SA1F-760-U-SLR-W

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1920.4 | 0.0 | 1920.4 |
| | % Fixture | 23.9 | 0.0 | 23.9 |
| Street Side | Lumens | 6127.6 | 0.0 | 6127.6 |
| | % Fixture | 76.1 | 0.0 | 76.1 |
| Total | Lumens | 8048.0 | 0.0 | 8048.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 104.3 | 1.3 |
| 10°-20° | 327.0 | 4.1 |
| 20°-30° | 507.9 | 6.3 |
| 30°-40° | 689.6 | 8.6 |
| 40°-50° | 1093.0 | 13.6 |
| 50°-60° | 1928.1 | 24.0 |
| 60°-70° | 2145.3 | 26.7 |
| 70°-80° | 1088.0 | 13.5 |
| 80°-90° | 164.7 | 2.0 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 8048.0 | 100.0 |
| 0°-180° | 8048.0 | 100.0 |

Coefficient of Utilization



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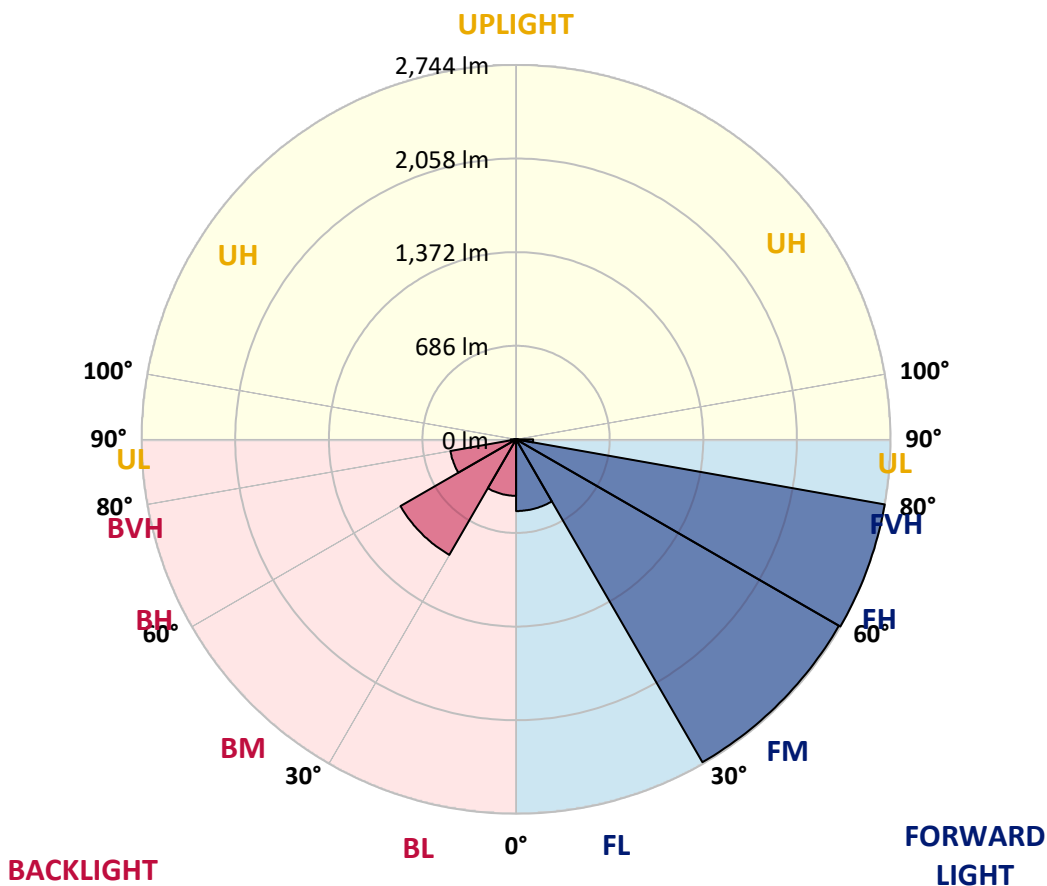
CATALOG NUMBER: GWS-SA1F-760-U-SLR-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 525.5 | 6.5 | | | |
| FM (30°-60°) | 2732.6 | 34.0 | | | |
| FH (60°-80°) | 2744.4 | 34.1 | | | G2/5000 |
| FVH (80°-90°) | 125.0 | 1.6 | | | G2/225 |
| BL (0°-30°) | 413.8 | 5.1 | B1/500 | | |
| BM (30°-60°) | 978.1 | 12.2 | B1/1000 | | |
| BH (60°-80°) | 488.8 | 6.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 39.7 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type III Short





REPORT NUMBER: P631446
 CATALOG NUMBER: GWS-SA1F-760-U-SLR-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1068.1 | 1068.1 | 1068.1 | 1068.1 | 1068.1 | 1068.1 | 1068.1 | 1068.1 | 1068.1 | 1068.1 | 1068.1 |
| 2.5° | 1148.0 | 1147.3 | 1158.9 | 1176.6 | 1193.0 | 1200.4 | 1212.5 | 1211.3 | 1201.6 | 1188.8 | 1184.5 |
| 5° | 1238.1 | 1240.6 | 1260.7 | 1299.7 | 1342.9 | 1361.2 | 1369.1 | 1366.1 | 1348.4 | 1325.9 | 1286.3 |
| 7.5° | 1319.8 | 1324.0 | 1355.1 | 1413.6 | 1467.2 | 1491.6 | 1511.1 | 1507.5 | 1481.9 | 1439.8 | 1381.3 |
| 10° | 1379.5 | 1384.4 | 1421.5 | 1490.4 | 1550.1 | 1571.4 | 1596.4 | 1597.6 | 1575.1 | 1518.4 | 1458.7 |
| 12.5° | 1439.2 | 1444.1 | 1478.8 | 1541.6 | 1580.6 | 1581.2 | 1595.8 | 1603.7 | 1604.9 | 1578.7 | 1519.0 |
| 15° | 1501.4 | 1505.6 | 1537.3 | 1572.6 | 1570.8 | 1536.7 | 1536.7 | 1551.9 | 1585.4 | 1604.3 | 1562.9 |
| 17.5° | 1554.4 | 1559.9 | 1584.2 | 1572.6 | 1518.4 | 1456.9 | 1449.6 | 1469.1 | 1527.6 | 1600.1 | 1595.8 |
| 20° | 1598.2 | 1602.5 | 1615.9 | 1539.1 | 1440.4 | 1360.0 | 1346.0 | 1368.5 | 1447.7 | 1573.9 | 1620.8 |
| 22.5° | 1640.3 | 1642.7 | 1635.4 | 1495.3 | 1356.3 | 1264.3 | 1247.3 | 1271.0 | 1356.3 | 1527.6 | 1642.1 |
| 25° | 1690.2 | 1687.8 | 1653.1 | 1449.6 | 1279.6 | 1188.8 | 1171.1 | 1197.9 | 1286.9 | 1466.0 | 1665.3 |
| 27.5° | 1748.1 | 1739.0 | 1668.3 | 1400.2 | 1220.5 | 1132.7 | 1120.5 | 1149.2 | 1232.0 | 1409.4 | 1683.5 |
| 30° | 1797.5 | 1779.8 | 1670.7 | 1356.3 | 1190.0 | 1109.0 | 1101.6 | 1128.5 | 1205.2 | 1371.0 | 1706.7 |
| 32.5° | 1852.3 | 1828.0 | 1684.8 | 1344.8 | 1207.1 | 1166.2 | 1176.0 | 1177.8 | 1212.5 | 1360.0 | 1741.4 |
| 35° | 1930.9 | 1899.2 | 1723.2 | 1378.3 | 1382.5 | 1451.4 | 1486.7 | 1439.2 | 1322.8 | 1384.4 | 1807.2 |
| 37.5° | 2049.7 | 2009.5 | 1801.1 | 1523.3 | 1745.1 | 1899.2 | 1984.5 | 1876.1 | 1658.0 | 1476.4 | 1906.6 |
| 40° | 2194.2 | 2143.0 | 1901.1 | 1791.4 | 2083.9 | 2330.6 | 2482.4 | 2323.3 | 2002.8 | 1706.1 | 2046.1 |
| 42.5° | 2395.8 | 2342.2 | 2094.8 | 2054.6 | 2397.7 | 2765.1 | 2963.1 | 2726.1 | 2306.9 | 2002.8 | 2269.7 |
| 45° | 2747.4 | 2695.6 | 2450.1 | 2318.5 | 2765.1 | 3300.1 | 3577.9 | 3248.3 | 2615.8 | 2300.8 | 2687.7 |
| 47.5° | 3396.9 | 3336.0 | 2977.7 | 2610.9 | 3184.3 | 3994.7 | 4383.4 | 3903.3 | 2936.9 | 2642.0 | 3389.6 |
| 50° | 4176.9 | 4118.4 | 3640.1 | 2957.0 | 3647.4 | 4737.4 | 5277.9 | 4672.9 | 3306.8 | 3056.9 | 4228.7 |
| 52.5° | 5115.2 | 5104.3 | 4585.1 | 3394.5 | 4129.3 | 5529.6 | 6270.5 | 5525.3 | 3712.0 | 3615.7 | 5179.2 |
| 55° | 5961.0 | 6068.2 | 5785.5 | 4061.7 | 4752.1 | 6524.6 | 7291.1 | 6455.1 | 4261.6 | 4539.4 | 6292.4 |
| 57.5° | 6416.7 | 6704.9 | 7139.4 | 5422.9 | 5657.5 | 7714.0 | 8550.6 | 7590.3 | 5206.0 | 6077.3 | 7324.6 |
| 60° | 6115.7 | 6442.3 | 7229.6 | 6447.8 | 6555.6 | 8666.9 | 9590.1 | 8544.5 | 6133.4 | 7144.9 | 7266.1 |
| 62.5° | 5614.9 | 5907.9 | 6608.1 | 5849.5 | 6694.6 | 8876.5 | 9614.4 | 8710.8 | 6502.0 | 6603.2 | 6563.6 |
| 65° | 5020.8 | 5316.3 | 6057.8 | 5106.1 | 6252.8 | 8378.7 | 8905.2 | 8221.5 | 5839.7 | 5965.8 | 5980.5 |
| 67.5° | 4231.7 | 4504.7 | 5259.6 | 4540.0 | 5699.6 | 7648.2 | 7816.3 | 7524.5 | 5377.8 | 5578.9 | 5368.7 |
| 70° | 3161.7 | 3407.9 | 4074.5 | 3689.4 | 4804.5 | 6696.4 | 6560.5 | 6603.8 | 4859.3 | 5059.2 | 4484.6 |
| 72.5° | 2160.6 | 2345.9 | 2917.4 | 2899.1 | 3679.1 | 5360.8 | 5171.3 | 5581.4 | 4058.7 | 4323.7 | 3418.9 |
| 75° | 1511.1 | 1655.5 | 2108.8 | 2290.4 | 2780.9 | 3973.4 | 3682.7 | 4177.5 | 3169.7 | 3548.1 | 2494.5 |
| 77.5° | 927.4 | 1023.0 | 1332.0 | 1696.9 | 1789.0 | 2719.4 | 2287.4 | 3143.5 | 2225.8 | 2587.8 | 1664.0 |
| 80° | 463.7 | 510.0 | 647.1 | 1066.9 | 1186.3 | 1602.5 | 1263.1 | 1824.9 | 1506.2 | 1602.5 | 920.7 |
| 82.5° | 140.1 | 154.8 | 189.5 | 405.2 | 614.8 | 922.5 | 746.4 | 1060.2 | 822.6 | 751.3 | 362.5 |
| 85° | 37.2 | 42.0 | 52.4 | 120.0 | 215.7 | 330.9 | 252.3 | 513.7 | 394.2 | 277.2 | 136.5 |
| 87.5° | 3.0 | 3.0 | 2.4 | 2.4 | 1.2 | 0.0 | 0.0 | 36.6 | 73.7 | 42.0 | 23.8 |
| 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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 CATALOG NUMBER: GWS-SA1F-760-U-SLR-W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1068.1 | 1068.1 | 1068.1 | 1068.1 | 1068.1 | 1068.1 | 1068.1 | 1068.1 | 1068.1 | 1068.1 | 1068.1 |
| 2.5° | 1163.2 | 1160.8 | 1135.8 | 1117.5 | 1096.2 | 1075.4 | 1054.1 | 1035.2 | 1013.9 | 992.6 | 986.5 |
| 5° | 1257.0 | 1240.0 | 1187.0 | 1142.5 | 1098.6 | 1060.2 | 1026.7 | 992.0 | 963.9 | 936.5 | 926.2 |
| 7.5° | 1339.9 | 1310.0 | 1233.3 | 1165.6 | 1104.7 | 1057.2 | 1007.8 | 957.2 | 917.6 | 878.6 | 868.9 |
| 10° | 1414.8 | 1375.2 | 1278.3 | 1193.0 | 1125.4 | 1071.2 | 1013.3 | 945.7 | 888.4 | 840.9 | 828.1 |
| 12.5° | 1470.3 | 1427.0 | 1317.3 | 1219.2 | 1142.5 | 1081.5 | 1024.3 | 964.5 | 904.2 | 842.7 | 828.7 |
| 15° | 1514.2 | 1469.1 | 1349.6 | 1239.4 | 1143.1 | 1064.5 | 1009.0 | 988.3 | 969.4 | 909.1 | 883.5 |
| 17.5° | 1549.5 | 1502.0 | 1377.7 | 1251.5 | 1126.6 | 1012.7 | 964.5 | 995.0 | 1043.2 | 1005.4 | 957.2 |
| 20° | 1581.8 | 1533.7 | 1399.0 | 1260.1 | 1090.1 | 941.4 | 914.6 | 979.2 | 1051.7 | 1050.5 | 1007.2 |
| 22.5° | 1617.1 | 1570.2 | 1430.1 | 1264.9 | 1038.9 | 868.9 | 884.7 | 956.0 | 1015.1 | 1032.8 | 1006.0 |
| 25° | 1662.2 | 1620.8 | 1473.3 | 1275.9 | 981.0 | 818.9 | 862.8 | 926.2 | 975.5 | 979.8 | 963.9 |
| 27.5° | 1714.6 | 1683.5 | 1537.9 | 1301.5 | 924.9 | 793.3 | 837.2 | 884.1 | 929.2 | 931.0 | 912.1 |
| 30° | 1771.9 | 1751.2 | 1597.6 | 1322.8 | 882.9 | 785.4 | 804.3 | 842.1 | 870.7 | 875.6 | 859.1 |
| 32.5° | 1845.0 | 1826.7 | 1650.6 | 1308.8 | 857.9 | 783.6 | 773.8 | 793.3 | 817.1 | 817.1 | 804.3 |
| 35° | 1945.6 | 1920.0 | 1706.7 | 1255.2 | 827.5 | 776.3 | 741.5 | 747.0 | 757.4 | 759.2 | 751.9 |
| 37.5° | 2088.1 | 2046.1 | 1763.4 | 1149.2 | 777.5 | 750.1 | 704.4 | 697.7 | 701.3 | 706.2 | 704.4 |
| 40° | 2264.8 | 2196.0 | 1846.2 | 1021.8 | 717.8 | 699.5 | 666.0 | 653.2 | 650.1 | 659.9 | 663.5 |
| 42.5° | 2487.2 | 2381.8 | 1935.2 | 903.0 | 663.5 | 641.6 | 620.9 | 609.9 | 605.1 | 621.5 | 631.3 |
| 45° | 2842.5 | 2668.8 | 2020.5 | 785.4 | 633.1 | 592.3 | 578.2 | 570.3 | 572.8 | 592.3 | 604.4 |
| 47.5° | 3456.1 | 3106.9 | 2101.5 | 711.1 | 630.6 | 556.9 | 539.9 | 541.7 | 548.4 | 569.1 | 583.7 |
| 50° | 4232.3 | 3693.7 | 2155.8 | 680.0 | 638.0 | 535.6 | 513.0 | 522.8 | 533.2 | 553.3 | 570.3 |
| 52.5° | 5022.6 | 4240.2 | 2091.2 | 662.9 | 637.3 | 536.2 | 488.1 | 517.3 | 522.2 | 542.3 | 560.6 |
| 55° | 5566.1 | 4301.2 | 1806.6 | 636.7 | 627.6 | 560.6 | 468.6 | 514.9 | 517.9 | 536.2 | 552.7 |
| 57.5° | 5773.3 | 4092.8 | 1377.7 | 644.0 | 598.3 | 579.5 | 460.0 | 497.8 | 519.7 | 535.6 | 552.7 |
| 60° | 5522.9 | 3699.8 | 837.2 | 662.9 | 551.4 | 578.2 | 465.5 | 466.7 | 504.5 | 531.3 | 548.4 |
| 62.5° | 5050.6 | 3195.3 | 588.0 | 609.3 | 517.3 | 545.9 | 478.3 | 430.2 | 477.7 | 510.0 | 525.2 |
| 65° | 4509.6 | 2601.8 | 448.5 | 524.6 | 500.9 | 496.0 | 482.6 | 397.9 | 441.1 | 472.8 | 486.2 |
| 67.5° | 3945.9 | 2022.3 | 364.4 | 391.2 | 452.7 | 448.5 | 441.1 | 369.2 | 397.9 | 420.4 | 435.7 |
| 70° | 3236.1 | 1414.8 | 307.7 | 293.7 | 388.1 | 402.1 | 385.7 | 333.3 | 342.4 | 365.6 | 377.8 |
| 72.5° | 2367.2 | 881.7 | 252.9 | 242.5 | 312.0 | 351.6 | 343.0 | 293.7 | 298.0 | 319.9 | 329.6 |
| 75° | 1702.4 | 504.5 | 202.9 | 199.9 | 238.2 | 301.0 | 283.9 | 252.9 | 257.7 | 274.2 | 280.9 |
| 77.5° | 1082.1 | 280.9 | 156.6 | 160.9 | 170.6 | 224.8 | 242.5 | 216.3 | 216.3 | 226.1 | 231.5 |
| 80° | 579.5 | 160.9 | 114.6 | 116.4 | 119.4 | 171.8 | 191.3 | 167.6 | 167.6 | 160.9 | 167.6 |
| 82.5° | 236.4 | 92.6 | 78.6 | 73.1 | 79.8 | 117.6 | 134.0 | 106.6 | 111.5 | 100.5 | 103.0 |
| 85° | 78.0 | 46.3 | 39.0 | 38.4 | 37.8 | 51.8 | 64.6 | 53.0 | 63.4 | 40.2 | 42.0 |
| 87.5° | 10.4 | 8.5 | 4.9 | 3.7 | 4.3 | 1.8 | 3.7 | 4.3 | 4.3 | 3.0 | 3.0 |
| 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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 CATALOG NUMBER: GWS-SA1F-760-U-SLR-W

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1068.1 | 1068.1 | 1068.1 | 1068.1 | 1068.1 | 1068.1 | 1068.1 | 1068.1 | 1068.1 | 1068.1 | 1068.1 |
| 2.5° | 982.2 | 977.3 | 959.7 | 963.9 | 960.9 | 956.0 | 960.9 | 951.8 | 959.1 | 961.5 | 976.7 |
| 5° | 918.2 | 906.7 | 889.6 | 881.1 | 879.2 | 874.4 | 875.0 | 870.7 | 871.9 | 882.3 | 899.4 |
| 7.5° | 861.0 | 850.0 | 836.6 | 830.5 | 825.0 | 819.5 | 818.9 | 818.3 | 823.2 | 832.3 | 848.8 |
| 10° | 819.5 | 813.4 | 808.0 | 810.4 | 808.0 | 805.5 | 801.3 | 801.3 | 809.2 | 825.6 | 845.7 |
| 12.5° | 819.5 | 818.3 | 819.5 | 826.8 | 826.2 | 826.8 | 821.4 | 824.4 | 846.3 | 874.4 | 903.0 |
| 15° | 863.4 | 853.7 | 853.7 | 857.3 | 856.1 | 856.1 | 856.1 | 868.9 | 918.9 | 962.1 | 992.6 |
| 17.5° | 917.0 | 888.4 | 876.2 | 874.4 | 873.8 | 873.8 | 876.2 | 903.6 | 981.6 | 1027.3 | 1045.0 |
| 20° | 954.2 | 900.0 | 879.9 | 871.9 | 872.5 | 873.8 | 881.1 | 918.9 | 1004.8 | 1027.9 | 1023.7 |
| 22.5° | 960.9 | 890.8 | 866.4 | 854.9 | 856.7 | 857.9 | 868.9 | 909.1 | 973.1 | 976.7 | 968.2 |
| 25° | 929.8 | 865.2 | 839.0 | 829.9 | 832.3 | 831.7 | 841.5 | 870.7 | 916.4 | 915.2 | 910.3 |
| 27.5° | 883.5 | 824.4 | 804.9 | 798.8 | 803.1 | 798.2 | 801.3 | 823.8 | 859.1 | 857.9 | 856.1 |
| 30° | 836.0 | 784.8 | 767.1 | 764.1 | 769.6 | 762.3 | 762.9 | 781.8 | 806.1 | 804.9 | 804.3 |
| 32.5° | 788.5 | 745.2 | 729.4 | 729.4 | 734.8 | 726.9 | 728.1 | 744.6 | 761.0 | 756.2 | 756.2 |
| 35° | 743.4 | 712.9 | 700.1 | 697.7 | 701.9 | 696.5 | 698.9 | 714.1 | 720.2 | 713.5 | 709.2 |
| 37.5° | 703.8 | 690.4 | 677.6 | 669.0 | 669.6 | 670.2 | 677.6 | 689.1 | 685.5 | 675.7 | 670.2 |
| 40° | 667.2 | 667.2 | 655.0 | 639.2 | 637.3 | 641.6 | 653.8 | 666.6 | 656.2 | 645.3 | 638.6 |
| 42.5° | 641.0 | 646.5 | 634.9 | 619.1 | 615.4 | 622.7 | 636.1 | 645.3 | 633.1 | 620.9 | 611.8 |
| 45° | 616.6 | 630.0 | 622.1 | 604.4 | 599.6 | 608.1 | 625.2 | 628.8 | 612.4 | 600.8 | 594.1 |
| 47.5° | 599.6 | 617.8 | 612.4 | 595.3 | 588.0 | 600.2 | 617.8 | 617.2 | 596.5 | 584.3 | 578.9 |
| 50° | 587.4 | 610.5 | 609.9 | 595.3 | 587.4 | 602.6 | 618.5 | 610.5 | 588.0 | 575.2 | 569.7 |
| 52.5° | 577.6 | 609.9 | 614.2 | 605.7 | 600.2 | 613.6 | 623.3 | 608.1 | 581.9 | 568.5 | 564.2 |
| 55° | 573.4 | 612.4 | 615.4 | 607.5 | 602.6 | 614.8 | 623.3 | 613.0 | 581.9 | 569.7 | 566.1 |
| 57.5° | 574.6 | 609.3 | 609.9 | 599.0 | 590.4 | 605.7 | 619.1 | 616.0 | 588.6 | 574.6 | 570.3 |
| 60° | 567.3 | 592.9 | 594.1 | 577.0 | 567.3 | 585.6 | 609.3 | 607.5 | 585.6 | 570.9 | 563.0 |
| 62.5° | 542.9 | 565.4 | 566.1 | 550.2 | 536.2 | 562.4 | 588.6 | 588.0 | 567.9 | 553.3 | 544.1 |
| 65° | 502.1 | 525.8 | 531.9 | 516.7 | 505.7 | 533.8 | 561.2 | 560.0 | 539.9 | 526.5 | 517.3 |
| 67.5° | 451.5 | 477.1 | 488.7 | 478.3 | 474.0 | 499.6 | 525.2 | 524.6 | 508.2 | 495.4 | 487.5 |
| 70° | 390.0 | 411.3 | 430.8 | 430.8 | 427.7 | 457.0 | 484.4 | 482.0 | 466.7 | 457.0 | 450.9 |
| 72.5° | 338.8 | 355.2 | 361.3 | 367.4 | 376.6 | 407.0 | 430.2 | 432.0 | 421.0 | 416.2 | 421.0 |
| 75° | 288.2 | 298.6 | 304.0 | 299.2 | 315.0 | 346.7 | 377.2 | 380.2 | 368.6 | 360.7 | 362.5 |
| 77.5° | 237.0 | 248.6 | 254.1 | 243.1 | 241.9 | 282.1 | 319.3 | 326.0 | 316.2 | 304.0 | 307.7 |
| 80° | 171.2 | 186.5 | 195.6 | 188.3 | 185.8 | 203.5 | 254.7 | 262.0 | 252.9 | 243.1 | 248.6 |
| 82.5° | 104.8 | 113.3 | 115.8 | 123.1 | 138.3 | 145.6 | 163.9 | 188.3 | 181.6 | 173.0 | 188.3 |
| 85° | 41.4 | 49.4 | 54.8 | 62.2 | 72.5 | 85.9 | 101.1 | 120.6 | 109.7 | 106.0 | 124.9 |
| 87.5° | 2.4 | 0.6 | 0.0 | 1.2 | 10.4 | 20.1 | 43.3 | 59.7 | 50.0 | 53.6 | 64.6 |
| 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: P631446
 CATALOG NUMBER: GWS-SA1F-760-U-SLR-W

CANDELA DISTRIBUTION (continued):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1068.1 | 1068.1 | 1068.1 | 1068.1 | 1068.1 | 1068.1 | 1068.1 | 1068.1 | 1068.1 | 1068.1 |
| 2.5° | 988.9 | 1004.8 | 1026.1 | 1043.8 | 1066.3 | 1087.6 | 1109.6 | 1131.5 | 1143.1 | 1148.0 |
| 5° | 918.9 | 948.1 | 982.2 | 1020.0 | 1063.9 | 1110.2 | 1157.1 | 1205.2 | 1235.7 | 1238.1 |
| 7.5° | 876.8 | 918.9 | 965.8 | 1013.3 | 1067.5 | 1131.5 | 1205.8 | 1280.2 | 1311.3 | 1319.8 |
| 10° | 890.2 | 937.1 | 974.3 | 1018.8 | 1078.5 | 1158.3 | 1246.1 | 1333.2 | 1369.1 | 1379.5 |
| 12.5° | 943.8 | 953.0 | 964.5 | 1005.4 | 1078.5 | 1181.5 | 1287.5 | 1391.1 | 1429.5 | 1439.2 |
| 15° | 988.3 | 944.4 | 923.7 | 967.0 | 1063.9 | 1201.6 | 1331.4 | 1445.9 | 1492.2 | 1501.4 |
| 17.5° | 992.0 | 916.4 | 871.3 | 910.3 | 1038.3 | 1215.6 | 1373.4 | 1506.8 | 1545.8 | 1554.4 |
| 20° | 954.8 | 886.6 | 828.1 | 851.8 | 1003.5 | 1221.7 | 1403.9 | 1551.3 | 1589.7 | 1598.2 |
| 22.5° | 912.8 | 862.2 | 798.8 | 797.6 | 961.5 | 1228.4 | 1440.4 | 1593.4 | 1634.8 | 1640.3 |
| 25° | 873.2 | 828.7 | 775.1 | 758.0 | 912.8 | 1241.2 | 1489.8 | 1656.7 | 1688.4 | 1690.2 |
| 27.5° | 826.8 | 792.7 | 756.2 | 739.7 | 870.1 | 1265.6 | 1562.9 | 1732.3 | 1751.2 | 1748.1 |
| 30° | 784.8 | 759.2 | 742.8 | 737.9 | 843.3 | 1283.8 | 1632.4 | 1806.6 | 1807.8 | 1797.5 |
| 32.5° | 740.3 | 730.6 | 730.6 | 746.4 | 821.4 | 1279.6 | 1689.0 | 1879.1 | 1867.6 | 1852.3 |
| 35° | 700.7 | 702.5 | 715.3 | 752.5 | 784.8 | 1236.9 | 1743.3 | 1969.9 | 1952.9 | 1930.9 |
| 37.5° | 662.9 | 677.0 | 695.2 | 731.2 | 736.7 | 1173.5 | 1806.6 | 2098.5 | 2077.2 | 2049.7 |
| 40° | 630.6 | 652.0 | 673.3 | 691.0 | 685.5 | 1083.4 | 1895.0 | 2249.6 | 2225.8 | 2194.2 |
| 42.5° | 605.1 | 625.8 | 649.5 | 651.4 | 653.2 | 989.5 | 1988.8 | 2434.8 | 2430.6 | 2395.8 |
| 45° | 588.6 | 602.0 | 624.6 | 621.5 | 651.4 | 885.9 | 2075.3 | 2717.6 | 2773.6 | 2747.4 |
| 47.5° | 577.6 | 588.0 | 590.4 | 603.2 | 667.2 | 793.3 | 2186.8 | 3270.8 | 3426.8 | 3396.9 |
| 50° | 571.5 | 581.9 | 554.5 | 604.4 | 669.6 | 733.6 | 2341.0 | 3965.4 | 4216.5 | 4176.9 |
| 52.5° | 570.9 | 568.5 | 527.1 | 617.2 | 656.2 | 697.1 | 2421.4 | 4472.4 | 5029.3 | 5115.2 |
| 55° | 572.1 | 541.7 | 513.0 | 620.9 | 629.4 | 683.7 | 2152.1 | 4716.1 | 5779.4 | 5961.0 |
| 57.5° | 561.2 | 512.4 | 521.0 | 606.3 | 578.9 | 719.6 | 1590.9 | 4629.0 | 6079.2 | 6416.7 |
| 60° | 540.5 | 484.4 | 535.6 | 566.7 | 527.1 | 658.1 | 1095.6 | 4240.2 | 5768.4 | 6115.7 |
| 62.5° | 510.6 | 464.9 | 533.8 | 515.5 | 508.2 | 538.6 | 753.1 | 3696.1 | 5275.5 | 5614.9 |
| 65° | 477.1 | 449.1 | 505.1 | 466.1 | 470.4 | 414.3 | 532.5 | 3081.9 | 4686.9 | 5020.8 |
| 67.5° | 441.1 | 439.3 | 463.1 | 414.9 | 397.3 | 328.4 | 388.1 | 2470.2 | 3930.7 | 4231.7 |
| 70° | 400.3 | 413.7 | 421.0 | 368.6 | 322.3 | 257.7 | 288.2 | 1727.4 | 2899.7 | 3161.7 |
| 72.5° | 359.5 | 360.7 | 371.1 | 320.5 | 241.3 | 206.6 | 216.3 | 1046.2 | 1969.9 | 2160.6 |
| 75° | 318.1 | 306.5 | 316.2 | 260.8 | 179.7 | 169.4 | 167.0 | 646.5 | 1360.6 | 1511.1 |
| 77.5° | 273.6 | 260.8 | 248.0 | 196.2 | 144.4 | 131.0 | 128.0 | 362.5 | 834.8 | 927.4 |
| 80° | 222.4 | 205.3 | 185.2 | 143.8 | 105.4 | 93.8 | 93.2 | 176.7 | 416.2 | 463.7 |
| 82.5° | 173.0 | 140.8 | 135.3 | 89.6 | 65.2 | 57.3 | 60.9 | 67.6 | 125.5 | 140.1 |
| 85° | 121.3 | 102.4 | 71.9 | 35.9 | 29.2 | 23.8 | 23.2 | 20.1 | 33.5 | 37.2 |
| 87.5° | 67.6 | 44.5 | 23.2 | 4.3 | 4.9 | 5.5 | 4.3 | 3.0 | 3.0 | 3.0 |
| 90° | 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



LM-79-2008: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGRAW-EDISON

Report Number: SP1-1908-441-9-R4

Test Date: 10/23/2019

Luminaire Tested: SA1C-760-U-5WQ

Data in this report applies to families of products SA1C-760-U-5WQ .

Test Information

Test Method: LM-79-2008
 Report Number: SP1-1908-441-9-R4
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/28/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: MCGRAW-EDISON
 Catalog Number: **SA1C-760-U-5WQ**
 Description: MCGRAW EDISON ROADWAY AND AREA LUMINAIRE

THIS IS A REVISION OF SP1-1908-441-4-R3. TO UPDATE THE CATALOG INFORMATION.TESTED IN SITU. ROADWAY AND AREA LUMINAIRE. (1) 70 CRI, 5000K, 1050MA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS.

Spectral Parameters

| | | | | | |
|---------------------------|--------|-----------|------|------|-------|
| CCT (K): | 5474 | CRI (Ra): | 71.7 | R9: | -27.1 |
| CIE u': | 0.2052 | R1: | 70.6 | R10: | 40.8 |
| CIE v': | 0.4804 | R2: | 74.6 | R11: | 74.6 |
| Duv: | 0.0025 | R3: | 78.3 | R12: | 50.4 |
| CIE x: | 0.3330 | R4: | 73.8 | R13: | 70.0 |
| CIE y: | 0.3466 | R5: | 72.4 | R14: | 87.8 |
| CIE z: | 0.3204 | R6: | 67.5 | | |
| Peak Wavelength (nm): | 442 | R7: | 77.5 | | |
| Dominant Wavelength (nm): | 554 | R8: | 58.9 | | |
| Purity: | 4.1 | | | | |
| Rf: | 72.1 | | | | |
| Rg: | 97.2 | | | | |



Test Conditions

Stabilization Time: 240M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 24.6/31%
 Sphere Temperature (°C): 25.9

REPORT NUMBER: SP1-1908-441-9-R4

| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/28/2019 | 12/28/2019 |
| Power Meter | IN0071 | 12/5/2018 | 12/5/2019 |
| AC Power Source | IN0063 | 12/5/2018 | 12/5/2019 |
| DC Power Source | IN0208 | 12/5/2018 | 12/5/2019 |
| Sphere Thermometer | IN0085 | 12/5/2018 | 12/5/2019 |
| Room Thermometer | IN0046 | 12/5/2018 | 12/5/2019 |

REPORT NUMBER: SP1-1908-441-9-R4

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 5700K 4-step quadrangle

REPORT NUMBER: SP1-1908-441-9-R4

Photopic Flux vs. Wavelength



#####

| λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) |
|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|
| 360 | 3540 | NR | 490 | 33363 | NR | 620 | 80193 | NR | 750 | 4663 | NR | 880 | 4678 | NR |
| 365 | 2862 | NR | 495 | 44177 | NR | 625 | 73091 | NR | 755 | 4147 | NR | 885 | 4128 | NR |
| 370 | 2865 | NR | 500 | 57019 | NR | 630 | 66269 | NR | 760 | 4040 | NR | 890 | 4504 | NR |
| 375 | 3254 | NR | 505 | 70030 | NR | 635 | 60012 | NR | 765 | 3474 | NR | 895 | 4371 | NR |
| 380 | 3076 | NR | 510 | 81972 | NR | 640 | 53914 | NR | 770 | 3469 | NR | 900 | 4082 | NR |
| 385 | 2904 | NR | 515 | 92590 | NR | 645 | 48385 | NR | 775 | 3181 | NR | 905 | 2982 | NR |
| 390 | 2689 | NR | 520 | 100305 | NR | 650 | 43219 | NR | 780 | 2969 | NR | 910 | 4351 | NR |
| 395 | 2619 | NR | 525 | 107452 | NR | 655 | 38562 | NR | 785 | 3132 | NR | 915 | 3365 | NR |
| 400 | 2679 | NR | 530 | 111373 | NR | 660 | 34110 | NR | 790 | 2507 | NR | 920 | 3430 | NR |
| 405 | 3515 | NR | 535 | 114505 | NR | 665 | 30085 | NR | 795 | 2968 | NR | 925 | 4264 | NR |
| 410 | 6934 | NR | 540 | 116408 | NR | 670 | 26205 | NR | 800 | 2758 | NR | 930 | 4095 | NR |
| 415 | 14943 | NR | 545 | 118700 | NR | 675 | 22906 | NR | 805 | 2872 | NR | 935 | 5048 | NR |
| 420 | 31939 | NR | 550 | 119209 | NR | 680 | 20058 | NR | 810 | 3094 | NR | 940 | 4074 | NR |
| 425 | 64701 | NR | 555 | 120742 | NR | 685 | 17413 | NR | 815 | 3222 | NR | 945 | 4949 | NR |
| 430 | 110939 | NR | 560 | 121594 | NR | 690 | 15447 | NR | 820 | 3238 | NR | 950 | 4387 | NR |
| 435 | 164597 | NR | 565 | 121913 | NR | 695 | 13398 | NR | 825 | 3524 | NR | 955 | 4978 | NR |
| 440 | 207696 | NR | 570 | 122147 | NR | 700 | 11777 | NR | 830 | 2921 | NR | 960 | 4706 | NR |
| 445 | 201830 | NR | 575 | 121605 | NR | 705 | 10412 | NR | 835 | 3595 | NR | 965 | 5083 | NR |
| 450 | 145410 | NR | 580 | 120248 | NR | 710 | 9544 | NR | 840 | 3016 | NR | 970 | 4522 | NR |
| 455 | 89594 | NR | 585 | 117717 | NR | 715 | 8940 | NR | 845 | 4032 | NR | 975 | 4740 | NR |
| 460 | 58321 | NR | 590 | 114359 | NR | 720 | 7897 | NR | 850 | 3579 | NR | 980 | 6122 | NR |
| 465 | 39318 | NR | 595 | 109974 | NR | 725 | 7045 | NR | 855 | 4571 | NR | 985 | 6450 | NR |
| 470 | 27693 | NR | 600 | 105269 | NR | 730 | 6483 | NR | 860 | 4485 | NR | 990 | 4875 | NR |
| 475 | 23081 | NR | 605 | 99453 | NR | 735 | 5838 | NR | 865 | 3978 | NR | 995 | 4764 | NR |
| 480 | 23002 | NR | 610 | 92921 | NR | 740 | 5261 | NR | 870 | 4298 | NR | 1000 | 3640 | NR |
| 485 | 26201 | NR | 615 | 86989 | NR | 745 | 4760 | NR | 875 | 4356 | NR | | | |

REPORT NUMBER: SP1-1908-441-9-R4

Scotopic Flux vs. Wavelength



Scotopic Lumens: 13759.3 S/P: 1.85

| 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 | 3540 | NR | 490 | 33363 | NR | 620 | 80193 | NR | 750 | 4663 | NR | 880 | 4678 | NR |
| 365 | 2862 | NR | 495 | 44177 | NR | 625 | 73091 | NR | 755 | 4147 | NR | 885 | 4128 | NR |
| 370 | 2865 | NR | 500 | 57019 | NR | 630 | 66269 | NR | 760 | 4040 | NR | 890 | 4504 | NR |
| 375 | 3254 | NR | 505 | 70030 | NR | 635 | 60012 | NR | 765 | 3474 | NR | 895 | 4371 | NR |
| 380 | 3076 | NR | 510 | 81972 | NR | 640 | 53914 | NR | 770 | 3469 | NR | 900 | 4082 | NR |
| 385 | 2904 | NR | 515 | 92590 | NR | 645 | 48385 | NR | 775 | 3181 | NR | 905 | 2982 | NR |
| 390 | 2689 | NR | 520 | 100305 | NR | 650 | 43219 | NR | 780 | 2969 | NR | 910 | 4351 | NR |
| 395 | 2619 | NR | 525 | 107452 | NR | 655 | 38562 | NR | 785 | 3132 | NR | 915 | 3365 | NR |
| 400 | 2679 | NR | 530 | 111373 | NR | 660 | 34110 | NR | 790 | 2507 | NR | 920 | 3430 | NR |
| 405 | 3515 | NR | 535 | 114505 | NR | 665 | 30085 | NR | 795 | 2968 | NR | 925 | 4264 | NR |
| 410 | 6934 | NR | 540 | 116408 | NR | 670 | 26205 | NR | 800 | 2758 | NR | 930 | 4095 | NR |
| 415 | 14943 | NR | 545 | 118700 | NR | 675 | 22906 | NR | 805 | 2872 | NR | 935 | 5048 | NR |
| 420 | 31939 | NR | 550 | 119209 | NR | 680 | 20058 | NR | 810 | 3094 | NR | 940 | 4074 | NR |
| 425 | 64701 | NR | 555 | 120742 | NR | 685 | 17413 | NR | 815 | 3222 | NR | 945 | 4949 | NR |
| 430 | 110939 | NR | 560 | 121594 | NR | 690 | 15447 | NR | 820 | 3238 | NR | 950 | 4387 | NR |
| 435 | 164597 | NR | 565 | 121913 | NR | 695 | 13398 | NR | 825 | 3524 | NR | 955 | 4978 | NR |
| 440 | 207696 | NR | 570 | 122147 | NR | 700 | 11777 | NR | 830 | 2921 | NR | 960 | 4706 | NR |
| 445 | 201830 | NR | 575 | 121605 | NR | 705 | 10412 | NR | 835 | 3595 | NR | 965 | 5083 | NR |
| 450 | 145410 | NR | 580 | 120248 | NR | 710 | 9544 | NR | 840 | 3016 | NR | 970 | 4522 | NR |
| 455 | 89594 | NR | 585 | 117717 | NR | 715 | 8940 | NR | 845 | 4032 | NR | 975 | 4740 | NR |
| 460 | 58321 | NR | 590 | 114359 | NR | 720 | 7897 | NR | 850 | 3579 | NR | 980 | 6122 | NR |
| 465 | 39318 | NR | 595 | 109974 | NR | 725 | 7045 | NR | 855 | 4571 | NR | 985 | 6450 | NR |
| 470 | 27693 | NR | 600 | 105269 | NR | 730 | 6483 | NR | 860 | 4485 | NR | 990 | 4875 | NR |
| 475 | 23081 | NR | 605 | 99453 | NR | 735 | 5838 | NR | 865 | 3978 | NR | 995 | 4764 | NR |
| 480 | 23002 | NR | 610 | 92921 | NR | 740 | 5261 | NR | 870 | 4298 | NR | 1000 | 3640 | NR |
| 485 | 26201 | NR | 615 | 86989 | NR | 745 | 4760 | NR | 875 | 4356 | NR | | | |

REPORT NUMBER: SP1-1908-441-9-R4

Melanopic Flux vs. Wavelength



Melanopic Lumens: 5527.6 M/P: 0.74

| 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 | 3540 | NR | 490 | 33363 | NR | 620 | 80193 | NR | 750 | 4663 | NR | 880 | 4678 | NR |
| 365 | 2862 | NR | 495 | 44177 | NR | 625 | 73091 | NR | 755 | 4147 | NR | 885 | 4128 | NR |
| 370 | 2865 | NR | 500 | 57019 | NR | 630 | 66269 | NR | 760 | 4040 | NR | 890 | 4504 | NR |
| 375 | 3254 | NR | 505 | 70030 | NR | 635 | 60012 | NR | 765 | 3474 | NR | 895 | 4371 | NR |
| 380 | 3076 | NR | 510 | 81972 | NR | 640 | 53914 | NR | 770 | 3469 | NR | 900 | 4082 | NR |
| 385 | 2904 | NR | 515 | 92590 | NR | 645 | 48385 | NR | 775 | 3181 | NR | 905 | 2982 | NR |
| 390 | 2689 | NR | 520 | 100305 | NR | 650 | 43219 | NR | 780 | 2969 | NR | 910 | 4351 | NR |
| 395 | 2619 | NR | 525 | 107452 | NR | 655 | 38562 | NR | 785 | 3132 | NR | 915 | 3365 | NR |
| 400 | 2679 | NR | 530 | 111373 | NR | 660 | 34110 | NR | 790 | 2507 | NR | 920 | 3430 | NR |
| 405 | 3515 | NR | 535 | 114505 | NR | 665 | 30085 | NR | 795 | 2968 | NR | 925 | 4264 | NR |
| 410 | 6934 | NR | 540 | 116408 | NR | 670 | 26205 | NR | 800 | 2758 | NR | 930 | 4095 | NR |
| 415 | 14943 | NR | 545 | 118700 | NR | 675 | 22906 | NR | 805 | 2872 | NR | 935 | 5048 | NR |
| 420 | 31939 | NR | 550 | 119209 | NR | 680 | 20058 | NR | 810 | 3094 | NR | 940 | 4074 | NR |
| 425 | 64701 | NR | 555 | 120742 | NR | 685 | 17413 | NR | 815 | 3222 | NR | 945 | 4949 | NR |
| 430 | 110939 | NR | 560 | 121594 | NR | 690 | 15447 | NR | 820 | 3238 | NR | 950 | 4387 | NR |
| 435 | 164597 | NR | 565 | 121913 | NR | 695 | 13398 | NR | 825 | 3524 | NR | 955 | 4978 | NR |
| 440 | 207696 | NR | 570 | 122147 | NR | 700 | 11777 | NR | 830 | 2921 | NR | 960 | 4706 | NR |
| 445 | 201830 | NR | 575 | 121605 | NR | 705 | 10412 | NR | 835 | 3595 | NR | 965 | 5083 | NR |
| 450 | 145410 | NR | 580 | 120248 | NR | 710 | 9544 | NR | 840 | 3016 | NR | 970 | 4522 | NR |
| 455 | 89594 | NR | 585 | 117717 | NR | 715 | 8940 | NR | 845 | 4032 | NR | 975 | 4740 | NR |
| 460 | 58321 | NR | 590 | 114359 | NR | 720 | 7897 | NR | 850 | 3579 | NR | 980 | 6122 | NR |
| 465 | 39318 | NR | 595 | 109974 | NR | 725 | 7045 | NR | 855 | 4571 | NR | 985 | 6450 | NR |
| 470 | 27693 | NR | 600 | 105269 | NR | 730 | 6483 | NR | 860 | 4485 | NR | 990 | 4875 | NR |
| 475 | 23081 | NR | 605 | 99453 | NR | 735 | 5838 | NR | 865 | 3978 | NR | 995 | 4764 | NR |
| 480 | 23002 | NR | 610 | 92921 | NR | 740 | 5261 | NR | 870 | 4298 | NR | 1000 | 3640 | NR |
| 485 | 26201 | NR | 615 | 86989 | NR | 745 | 4760 | NR | 875 | 4356 | NR | | | |

REPORT NUMBER: SP1-1908-441-9-R4

TM-30-18

Summary

$R_f = 72.1$
 $R_g = 97.2$
 CIE $R_a = 71.7$
 $R_9 = -27.1$



Color Vector Graphics



REPORT NUMBER: SP1-1908-441-9-R4

TM-30-18

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

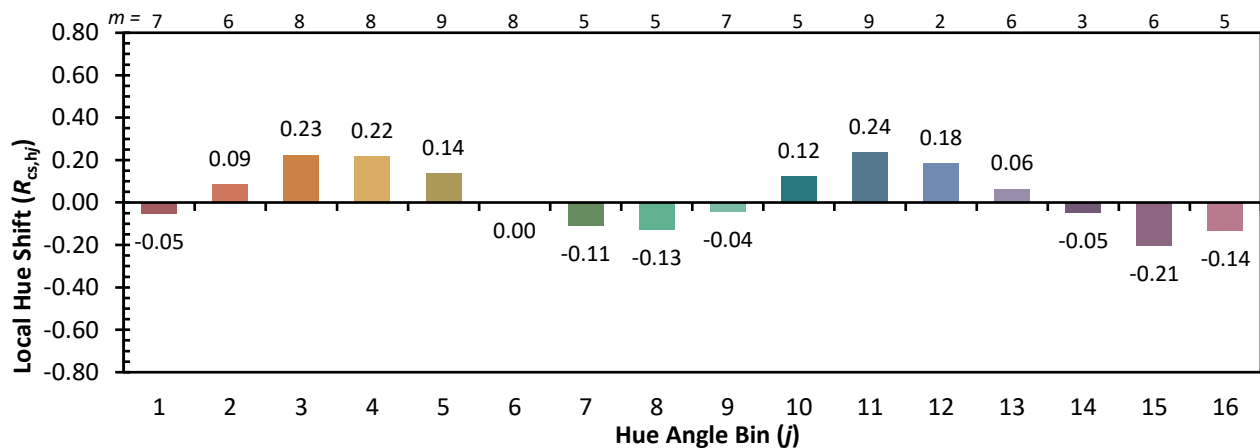
| | | | |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 54 | CES51 = 88 | CES76 = 43 |
| CES02 = 59 | CES27 = 79 | CES52 = 90 | CES77 = 64 |
| CES03 = 30 | CES28 = 77 | CES53 = 77 | CES78 = 46 |
| CES04 = 69 | CES29 = 50 | CES54 = 81 | CES79 = 74 |
| CES05 = 46 | CES30 = 59 | CES55 = 80 | CES80 = 70 |
| CES06 = 50 | CES31 = 55 | CES56 = 70 | CES81 = 71 |
| CES07 = 38 | CES32 = 52 | CES57 = 68 | CES82 = 88 |
| CES08 = 38 | CES33 = 63 | CES58 = 70 | CES83 = 82 |
| CES09 = 29 | CES34 = 63 | CES59 = 88 | CES84 = 87 |
| CES10 = 72 | CES35 = 79 | CES60 = 92 | CES85 = 84 |
| CES11 = 55 | CES36 = 90 | CES61 = 88 | CES86 = 76 |
| CES12 = 61 | CES37 = 72 | CES62 = 81 | CES87 = 75 |
| CES13 = 41 | CES38 = 68 | CES63 = 75 | CES88 = 77 |
| CES14 = 74 | CES39 = 91 | CES64 = 72 | CES89 = 76 |
| CES15 = 70 | CES40 = 83 | CES65 = 65 | CES90 = 76 |
| CES16 = 46 | CES41 = 84 | CES66 = 66 | CES91 = 92 |
| CES17 = 48 | CES42 = 70 | CES67 = 64 | CES92 = 70 |
| CES18 = 55 | CES43 = 69 | CES68 = 71 | CES93 = 83 |
| CES19 = 70 | CES44 = 98 | CES69 = 80 | CES94 = 60 |
| CES20 = 64 | CES45 = 79 | CES70 = 58 | CES95 = 73 |
| CES21 = 85 | CES46 = 78 | CES71 = 55 | CES96 = 79 |
| CES22 = 77 | CES47 = 76 | CES72 = 84 | CES97 = 84 |
| CES23 = 91 | CES48 = 68 | CES73 = 47 | CES98 = 73 |
| CES24 = 90 | CES49 = 78 | CES74 = 94 | CES99 = 62 |
| CES25 = 71 | CES50 = 87 | CES75 = 51 | |



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Measure Comparisons



(END OF REPORT)