

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: P437274

Luminaire Tested: **ISS-SA1C-722-U-SLL**

Issue Date: 12/9/2020

Test Information

Test Method: LM-79-08
Report Number: P437274
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: ISS-SA1C-722-U-SLL
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2965 lumens
Efficiency: N/A
Efficacy: 86.7 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

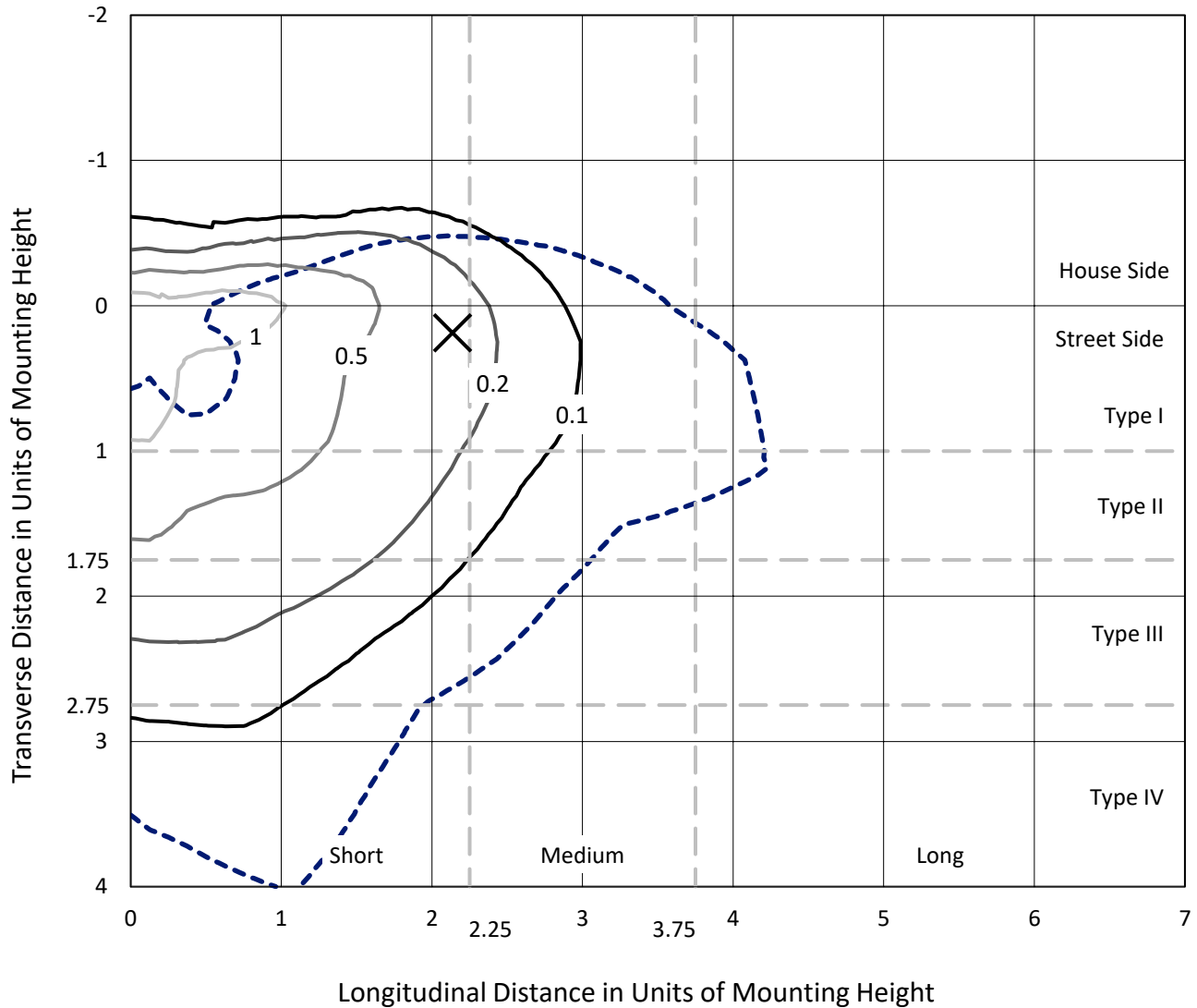
Input Watts (W): 34.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

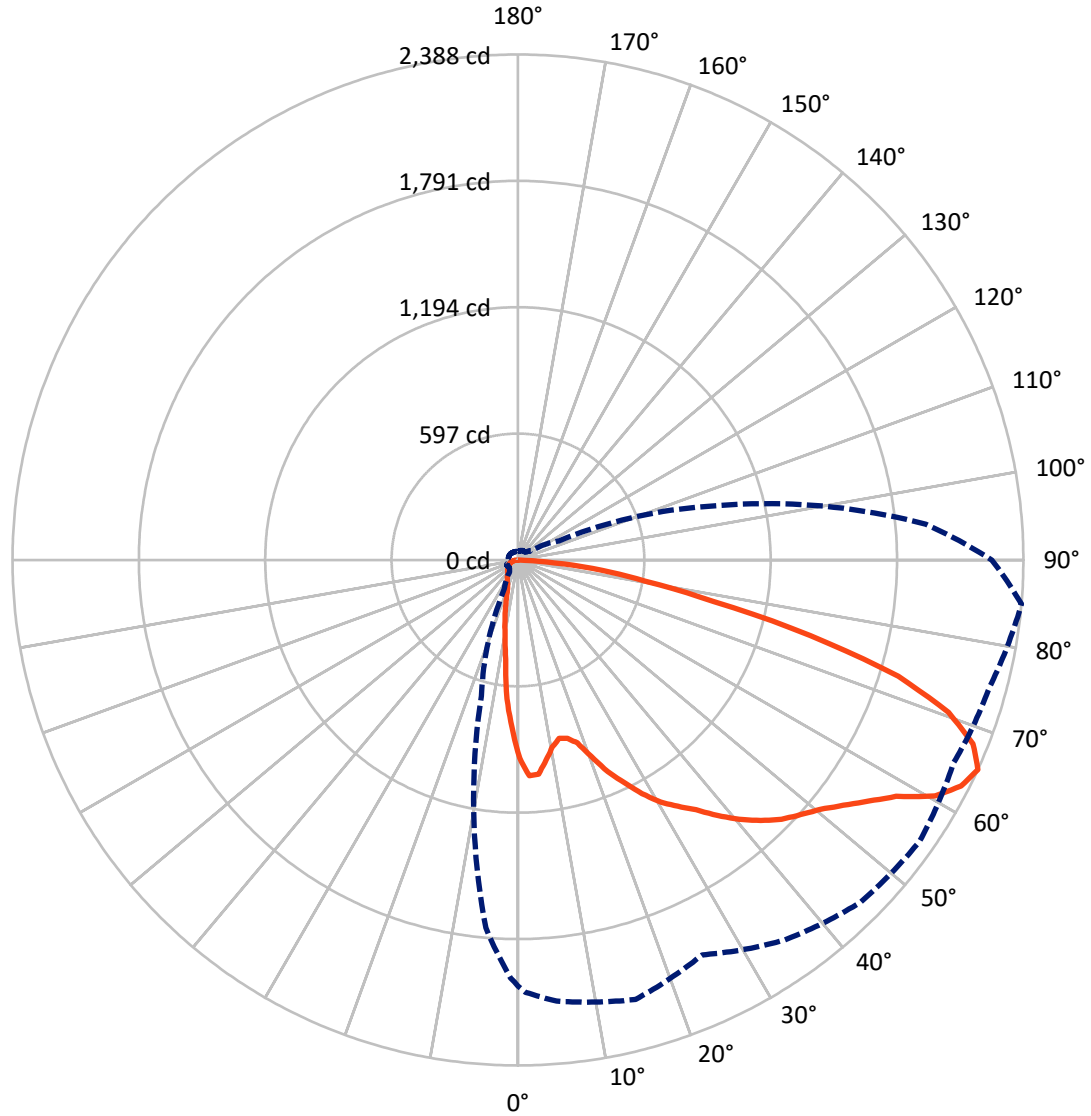
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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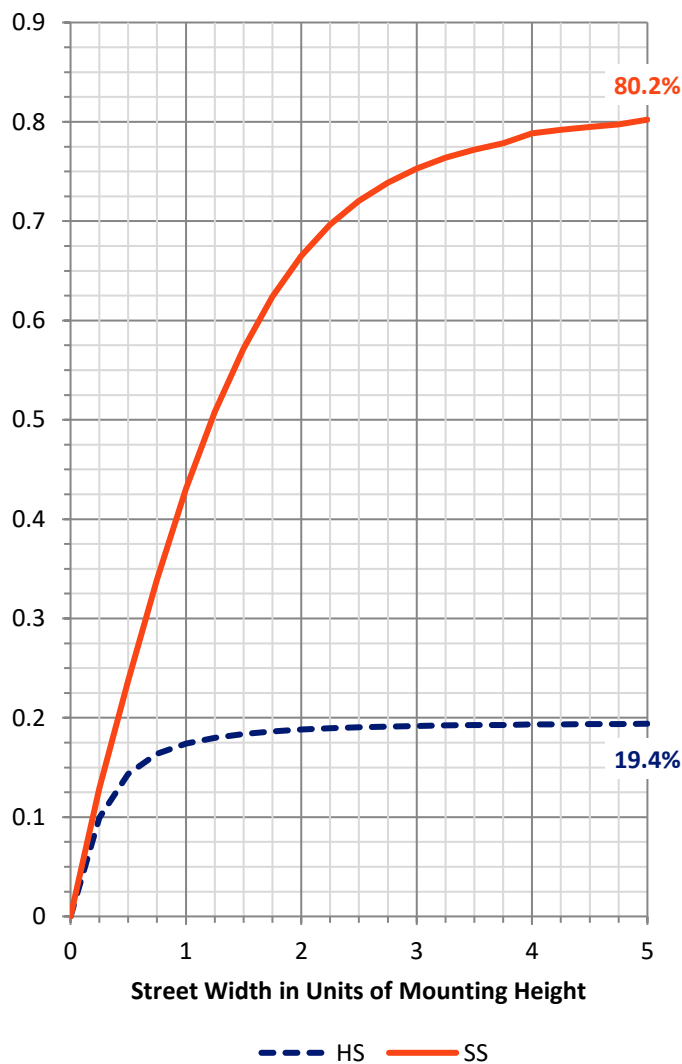
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 580.3 | 0.0 | 580.3 |
| | % Fixture | 19.6 | 0.0 | 19.6 |
| Street Side | Lumens | 2384.7 | 0.0 | 2384.7 |
| | % Fixture | 80.4 | 0.0 | 80.4 |
| Total | Lumens | 2965.0 | 0.0 | 2965.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 71.3 | 2.4 |
| 10°-20° | 148.3 | 5.0 |
| 20°-30° | 213.3 | 7.2 |
| 30°-40° | 306.2 | 10.3 |
| 40°-50° | 433.4 | 14.6 |
| 50°-60° | 602.7 | 20.3 |
| 60°-70° | 717.6 | 24.2 |
| 70°-80° | 414.8 | 14.0 |
| 80°-90° | 57.4 | 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° | 2965.0 | 100.0 |
| 0°-180° | 2965.0 | 100.0 |

Coefficient of Utilization

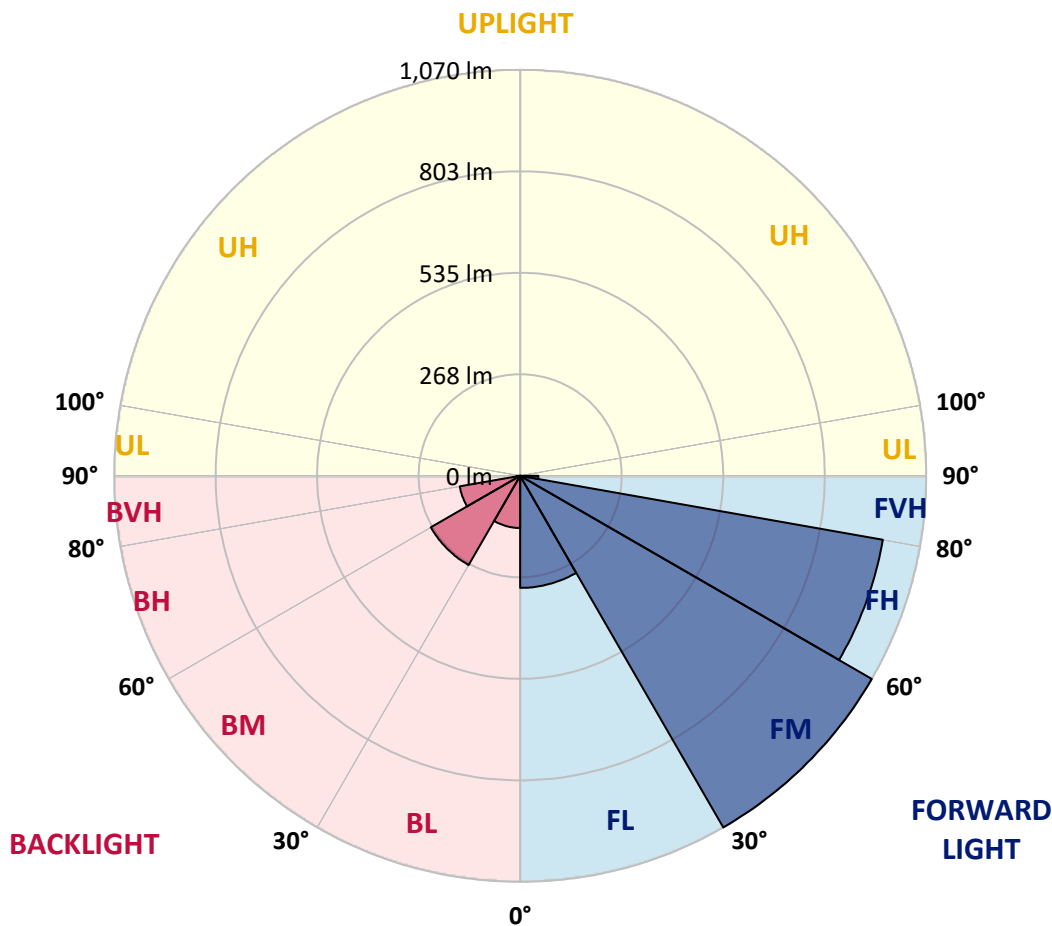


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 295.5 | 10.0 | | | |
| FM (30°-60°) | 1070.4 | 36.1 | | | |
| FH (60°-80°) | 970.9 | 32.7 | | | G1/1800 |
| FVH (80°-90°) | 48.0 | 1.6 | | | G1/100 |
| BL (0°-30°) | 137.5 | 4.6 | B1/500 | | |
| BM (30°-60°) | 271.9 | 9.2 | B1/1000 | | |
| BH (60°-80°) | 161.6 | 5.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 9.4 | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 936.7 | 936.7 | 936.7 | 936.7 | 936.7 | 936.7 | 936.7 | 936.7 | 936.7 | 936.7 | 936.7 |
| 2.5° | 981.5 | 985.1 | 993.6 | 1022.7 | 1040.9 | 1055.4 | 1073.6 | 1055.4 | 1050.6 | 1026.3 | 1021.5 |
| 5° | 946.4 | 954.8 | 979.1 | 1033.6 | 1078.4 | 1125.7 | 1149.9 | 1129.3 | 1101.5 | 1059.1 | 1016.6 |
| 7.5° | 877.3 | 888.2 | 919.7 | 1004.5 | 1089.4 | 1153.6 | 1185.1 | 1163.3 | 1106.3 | 1031.2 | 954.8 |
| 10° | 807.0 | 824.0 | 861.5 | 968.2 | 1057.8 | 1129.3 | 1177.8 | 1154.8 | 1085.7 | 987.6 | 896.7 |
| 12.5° | 764.6 | 776.7 | 819.1 | 930.6 | 1025.1 | 1096.6 | 1133.0 | 1119.6 | 1055.4 | 962.1 | 865.2 |
| 15° | 754.9 | 767.0 | 809.4 | 917.3 | 1000.9 | 1054.2 | 1062.7 | 1066.3 | 1042.1 | 970.6 | 873.7 |
| 17.5° | 781.6 | 791.3 | 849.4 | 939.1 | 973.0 | 983.9 | 997.3 | 1013.0 | 1025.1 | 987.6 | 908.8 |
| 20° | 845.8 | 865.2 | 916.1 | 983.9 | 965.8 | 940.3 | 947.6 | 967.0 | 1013.0 | 1037.2 | 990.0 |
| 22.5° | 931.8 | 953.6 | 1017.9 | 1045.7 | 970.6 | 916.1 | 910.0 | 927.0 | 1011.8 | 1091.8 | 1086.9 |
| 25° | 1027.6 | 1057.8 | 1126.9 | 1128.1 | 991.2 | 899.1 | 887.0 | 902.7 | 1009.4 | 1140.2 | 1164.5 |
| 27.5° | 1126.9 | 1154.8 | 1229.9 | 1192.3 | 1031.2 | 900.3 | 885.8 | 901.5 | 1015.4 | 1192.3 | 1250.5 |
| 30° | 1200.8 | 1237.2 | 1302.6 | 1252.9 | 1056.6 | 916.1 | 894.3 | 914.9 | 1028.8 | 1219.0 | 1326.9 |
| 32.5° | 1276.0 | 1299.0 | 1368.1 | 1288.1 | 1084.5 | 940.3 | 912.4 | 943.9 | 1062.7 | 1244.5 | 1387.4 |
| 35° | 1342.6 | 1372.9 | 1443.2 | 1308.7 | 1125.7 | 981.5 | 945.2 | 986.4 | 1111.2 | 1280.8 | 1449.2 |
| 37.5° | 1427.4 | 1456.5 | 1520.7 | 1337.8 | 1159.6 | 1033.6 | 1003.3 | 1056.6 | 1170.5 | 1313.5 | 1531.6 |
| 40° | 1502.6 | 1548.6 | 1597.1 | 1374.1 | 1198.4 | 1110.0 | 1090.6 | 1163.3 | 1250.5 | 1358.4 | 1611.6 |
| 42.5° | 1576.5 | 1615.2 | 1668.6 | 1415.3 | 1248.1 | 1203.3 | 1211.7 | 1288.1 | 1347.5 | 1426.2 | 1683.1 |
| 45° | 1629.8 | 1674.6 | 1721.9 | 1448.0 | 1312.3 | 1303.8 | 1360.8 | 1425.0 | 1446.8 | 1497.7 | 1747.3 |
| 47.5° | 1681.9 | 1717.0 | 1759.4 | 1480.7 | 1389.9 | 1416.5 | 1515.9 | 1565.6 | 1543.8 | 1561.9 | 1798.2 |
| 50° | 1751.0 | 1788.5 | 1800.6 | 1532.8 | 1488.0 | 1559.5 | 1667.3 | 1700.1 | 1637.1 | 1612.8 | 1851.5 |
| 52.5° | 1850.3 | 1868.5 | 1862.4 | 1594.6 | 1581.3 | 1708.5 | 1797.0 | 1846.7 | 1734.0 | 1661.3 | 1925.4 |
| 55° | 1983.6 | 2015.1 | 1976.3 | 1695.2 | 1677.0 | 1851.5 | 1954.5 | 1978.8 | 1841.8 | 1721.9 | 2010.3 |
| 57.5° | 2110.8 | 2138.7 | 2126.6 | 1817.6 | 1801.9 | 1975.1 | 2074.5 | 2097.5 | 1947.3 | 1834.6 | 2107.2 |
| 60° | 2158.1 | 2166.6 | 2210.2 | 1947.3 | 1926.7 | 2080.6 | 2193.2 | 2196.9 | 2073.3 | 1970.3 | 2264.7 |
| 62.5° | 2107.2 | 2141.1 | 2183.5 | 2068.4 | 2001.8 | 2171.4 | 2272.0 | 2295.0 | 2193.2 | 2135.1 | 2350.8 |
| 65° | 2012.7 | 2043.0 | 2092.7 | 2149.6 | 2058.7 | 2193.2 | 2287.8 | 2316.8 | 2270.8 | 2308.4 | 2388.3 |
| 67.5° | 1903.6 | 1941.2 | 1975.1 | 2162.9 | 2051.5 | 2068.4 | 2147.2 | 2165.4 | 2229.6 | 2384.7 | 2319.3 |
| 70° | 1763.1 | 1805.5 | 1834.6 | 2110.8 | 1878.2 | 1709.8 | 1765.5 | 1815.2 | 1913.3 | 2249.0 | 2158.1 |
| 72.5° | 1460.1 | 1528.0 | 1600.7 | 1874.6 | 1519.5 | 1328.1 | 1371.7 | 1404.4 | 1474.7 | 1920.6 | 1879.4 |
| 75° | 1027.6 | 1077.2 | 1166.9 | 1509.8 | 1166.9 | 940.3 | 1008.2 | 1008.2 | 1096.6 | 1577.7 | 1427.4 |
| 77.5° | 614.4 | 615.6 | 702.8 | 993.6 | 710.1 | 633.7 | 672.5 | 690.7 | 717.3 | 1117.2 | 947.6 |
| 80° | 347.8 | 352.6 | 381.7 | 642.2 | 420.5 | 432.6 | 478.6 | 527.1 | 487.1 | 693.1 | 609.5 |
| 82.5° | 162.4 | 143.0 | 151.5 | 302.9 | 238.7 | 282.3 | 289.6 | 311.4 | 313.8 | 443.5 | 399.9 |
| 85° | 13.3 | 10.9 | 14.5 | 54.5 | 42.4 | 38.8 | 27.9 | 53.3 | 83.6 | 193.9 | 172.1 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 936.7 | 936.7 | 936.7 | 936.7 | 936.7 | 936.7 | 936.7 | 936.7 | 936.7 | 936.7 | 936.7 |
| 2.5° | 1005.7 | 993.6 | 967.0 | 946.4 | 927.0 | 890.6 | 876.1 | 855.5 | 844.6 | 825.2 | 830.0 |
| 5° | 985.1 | 957.3 | 896.7 | 855.5 | 802.2 | 758.5 | 731.9 | 707.7 | 698.0 | 677.4 | 670.1 |
| 7.5° | 910.0 | 885.8 | 809.4 | 741.6 | 676.1 | 624.0 | 574.4 | 538.0 | 521.0 | 502.9 | 501.7 |
| 10° | 845.8 | 805.8 | 718.6 | 638.6 | 563.5 | 515.0 | 478.6 | 448.3 | 421.7 | 398.7 | 385.3 |
| 12.5° | 809.4 | 759.8 | 662.8 | 565.9 | 513.8 | 479.8 | 439.9 | 402.3 | 372.0 | 345.3 | 329.6 |
| 15° | 809.4 | 751.3 | 636.2 | 541.6 | 489.5 | 438.6 | 392.6 | 353.8 | 313.8 | 282.3 | 272.6 |
| 17.5° | 847.0 | 775.5 | 642.2 | 525.9 | 452.0 | 395.0 | 336.9 | 286.0 | 247.2 | 219.3 | 209.6 |
| 20° | 920.9 | 834.9 | 656.8 | 507.7 | 415.6 | 336.9 | 266.6 | 212.1 | 176.9 | 163.6 | 161.2 |
| 22.5° | 1007.0 | 906.4 | 678.6 | 490.8 | 378.1 | 275.1 | 199.9 | 161.2 | 145.4 | 140.6 | 140.6 |
| 25° | 1101.5 | 986.4 | 706.4 | 472.6 | 339.3 | 218.1 | 152.7 | 134.5 | 128.4 | 126.0 | 126.0 |
| 27.5° | 1189.9 | 1073.6 | 756.1 | 465.3 | 302.9 | 176.9 | 133.3 | 120.0 | 116.3 | 113.9 | 115.1 |
| 30° | 1276.0 | 1151.1 | 807.0 | 450.8 | 262.9 | 153.9 | 120.0 | 110.3 | 105.4 | 104.2 | 105.4 |
| 32.5° | 1349.9 | 1217.8 | 842.2 | 429.0 | 235.1 | 138.1 | 111.5 | 101.8 | 96.9 | 95.7 | 96.9 |
| 35° | 1434.7 | 1283.2 | 877.3 | 413.2 | 220.5 | 128.4 | 105.4 | 95.7 | 90.9 | 88.5 | 88.5 |
| 37.5° | 1534.1 | 1362.0 | 904.0 | 390.2 | 210.8 | 118.8 | 100.6 | 90.9 | 84.8 | 82.4 | 82.4 |
| 40° | 1667.3 | 1457.7 | 925.8 | 372.0 | 199.9 | 113.9 | 94.5 | 86.0 | 80.0 | 77.6 | 76.3 |
| 42.5° | 1759.4 | 1541.3 | 943.9 | 359.9 | 189.0 | 111.5 | 90.9 | 83.6 | 76.3 | 72.7 | 71.5 |
| 45° | 1822.5 | 1615.2 | 956.1 | 353.8 | 179.3 | 105.4 | 88.5 | 81.2 | 72.7 | 67.9 | 67.9 |
| 47.5° | 1883.0 | 1675.8 | 957.3 | 345.3 | 172.1 | 98.2 | 92.1 | 77.6 | 69.1 | 64.2 | 64.2 |
| 50° | 1950.9 | 1752.2 | 980.3 | 336.9 | 163.6 | 89.7 | 90.9 | 76.3 | 66.6 | 61.8 | 60.6 |
| 52.5° | 2018.8 | 1856.4 | 1025.1 | 324.7 | 151.5 | 82.4 | 86.0 | 77.6 | 64.2 | 59.4 | 58.2 |
| 55° | 2139.9 | 1986.0 | 1080.9 | 306.6 | 135.7 | 75.1 | 80.0 | 76.3 | 60.6 | 55.7 | 54.5 |
| 57.5° | 2218.7 | 2107.2 | 1124.5 | 287.2 | 112.7 | 70.3 | 70.3 | 73.9 | 57.0 | 52.1 | 50.9 |
| 60° | 2263.5 | 2130.2 | 1133.0 | 264.2 | 92.1 | 63.0 | 60.6 | 75.1 | 53.3 | 47.3 | 47.3 |
| 62.5° | 2262.3 | 2051.5 | 1090.6 | 242.3 | 80.0 | 58.2 | 54.5 | 65.4 | 49.7 | 44.8 | 43.6 |
| 65° | 2239.3 | 1935.1 | 994.8 | 214.5 | 75.1 | 53.3 | 48.5 | 49.7 | 46.0 | 41.2 | 40.0 |
| 67.5° | 2139.9 | 1734.0 | 842.2 | 186.6 | 72.7 | 48.5 | 44.8 | 42.4 | 40.0 | 36.4 | 35.1 |
| 70° | 1898.8 | 1507.4 | 656.8 | 173.3 | 71.5 | 42.4 | 38.8 | 36.4 | 33.9 | 31.5 | 31.5 |
| 72.5° | 1543.8 | 1175.4 | 501.7 | 166.0 | 72.7 | 38.8 | 32.7 | 31.5 | 29.1 | 27.9 | 26.7 |
| 75° | 1068.8 | 868.8 | 363.5 | 146.6 | 70.3 | 32.7 | 27.9 | 25.4 | 24.2 | 21.8 | 21.8 |
| 77.5° | 687.1 | 568.3 | 241.1 | 117.5 | 57.0 | 26.7 | 20.6 | 19.4 | 18.2 | 17.0 | 17.0 |
| 80° | 452.0 | 386.5 | 140.6 | 83.6 | 35.1 | 18.2 | 14.5 | 14.5 | 13.3 | 10.9 | 10.9 |
| 82.5° | 287.2 | 292.0 | 72.7 | 38.8 | 20.6 | 10.9 | 8.5 | 7.3 | 7.3 | 4.8 | 4.8 |
| 85° | 63.0 | 110.3 | 32.7 | 15.8 | 7.3 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 936.7 | 936.7 | 936.7 | 936.7 | 936.7 | 936.7 | 936.7 | 936.7 | 936.7 | 936.7 | 936.7 |
| 2.5° | 813.1 | 803.4 | 799.7 | 799.7 | 784.0 | 785.2 | 785.2 | 794.9 | 793.7 | 802.2 | 798.5 |
| 5° | 661.6 | 651.9 | 651.9 | 654.3 | 656.8 | 645.9 | 649.5 | 639.8 | 658.0 | 644.6 | 634.9 |
| 7.5° | 488.3 | 487.1 | 495.6 | 515.0 | 511.4 | 507.7 | 500.4 | 482.3 | 472.6 | 482.3 | 477.4 |
| 10° | 374.4 | 378.1 | 375.6 | 384.1 | 385.3 | 384.1 | 372.0 | 368.4 | 363.5 | 368.4 | 374.4 |
| 12.5° | 313.8 | 299.3 | 283.5 | 282.3 | 292.0 | 292.0 | 290.8 | 292.0 | 295.7 | 295.7 | 300.5 |
| 15° | 261.7 | 252.0 | 231.4 | 221.7 | 229.0 | 224.2 | 225.4 | 230.2 | 233.9 | 238.7 | 236.3 |
| 17.5° | 208.4 | 199.9 | 190.2 | 184.2 | 187.8 | 184.2 | 183.0 | 181.8 | 181.8 | 180.5 | 185.4 |
| 20° | 158.7 | 157.5 | 161.2 | 158.7 | 159.9 | 157.5 | 153.9 | 149.0 | 145.4 | 147.8 | 150.3 |
| 22.5° | 138.1 | 139.3 | 141.8 | 144.2 | 144.2 | 141.8 | 135.7 | 130.9 | 129.7 | 129.7 | 130.9 |
| 25° | 127.2 | 127.2 | 130.9 | 132.1 | 133.3 | 129.7 | 122.4 | 118.8 | 118.8 | 118.8 | 118.8 |
| 27.5° | 115.1 | 117.5 | 120.0 | 122.4 | 123.6 | 120.0 | 113.9 | 110.3 | 110.3 | 109.1 | 107.8 |
| 30° | 106.6 | 107.8 | 110.3 | 111.5 | 112.7 | 109.1 | 105.4 | 101.8 | 101.8 | 101.8 | 100.6 |
| 32.5° | 96.9 | 100.6 | 101.8 | 103.0 | 104.2 | 101.8 | 98.2 | 95.7 | 94.5 | 93.3 | 90.9 |
| 35° | 89.7 | 90.9 | 94.5 | 94.5 | 95.7 | 94.5 | 92.1 | 89.7 | 86.0 | 84.8 | 84.8 |
| 37.5° | 82.4 | 82.4 | 84.8 | 87.2 | 89.7 | 88.5 | 84.8 | 81.2 | 80.0 | 80.0 | 80.0 |
| 40° | 77.6 | 76.3 | 77.6 | 81.2 | 83.6 | 83.6 | 78.8 | 76.3 | 76.3 | 75.1 | 75.1 |
| 42.5° | 71.5 | 71.5 | 71.5 | 75.1 | 80.0 | 77.6 | 72.7 | 72.7 | 72.7 | 71.5 | 71.5 |
| 45° | 67.9 | 66.6 | 67.9 | 67.9 | 73.9 | 70.3 | 69.1 | 67.9 | 69.1 | 67.9 | 69.1 |
| 47.5° | 63.0 | 63.0 | 63.0 | 64.2 | 67.9 | 65.4 | 64.2 | 64.2 | 65.4 | 65.4 | 65.4 |
| 50° | 59.4 | 59.4 | 59.4 | 60.6 | 61.8 | 61.8 | 61.8 | 61.8 | 61.8 | 63.0 | 63.0 |
| 52.5° | 57.0 | 55.7 | 57.0 | 57.0 | 58.2 | 59.4 | 58.2 | 59.4 | 59.4 | 59.4 | 60.6 |
| 55° | 54.5 | 53.3 | 54.5 | 54.5 | 57.0 | 55.7 | 55.7 | 57.0 | 57.0 | 58.2 | 59.4 |
| 57.5° | 50.9 | 49.7 | 52.1 | 52.1 | 54.5 | 54.5 | 53.3 | 54.5 | 54.5 | 55.7 | 55.7 |
| 60° | 47.3 | 47.3 | 48.5 | 48.5 | 50.9 | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 |
| 62.5° | 43.6 | 43.6 | 44.8 | 46.0 | 48.5 | 48.5 | 49.7 | 49.7 | 49.7 | 49.7 | 48.5 |
| 65° | 40.0 | 41.2 | 42.4 | 42.4 | 44.8 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0 |
| 67.5° | 35.1 | 37.6 | 38.8 | 40.0 | 42.4 | 42.4 | 43.6 | 43.6 | 42.4 | 42.4 | 42.4 |
| 70° | 31.5 | 32.7 | 33.9 | 35.1 | 38.8 | 38.8 | 40.0 | 40.0 | 38.8 | 38.8 | 40.0 |
| 72.5° | 26.7 | 27.9 | 29.1 | 31.5 | 35.1 | 35.1 | 36.4 | 36.4 | 35.1 | 35.1 | 35.1 |
| 75° | 23.0 | 23.0 | 24.2 | 26.7 | 31.5 | 31.5 | 31.5 | 32.7 | 31.5 | 31.5 | 30.3 |
| 77.5° | 17.0 | 18.2 | 19.4 | 23.0 | 26.7 | 27.9 | 27.9 | 27.9 | 26.7 | 26.7 | 25.4 |
| 80° | 10.9 | 12.1 | 14.5 | 17.0 | 20.6 | 21.8 | 23.0 | 23.0 | 21.8 | 21.8 | 20.6 |
| 82.5° | 4.8 | 7.3 | 8.5 | 10.9 | 13.3 | 17.0 | 17.0 | 18.2 | 17.0 | 15.8 | 15.8 |
| 85° | 0.0 | 0.0 | 1.2 | 3.6 | 6.1 | 9.7 | 10.9 | 12.1 | 10.9 | 9.7 | 9.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.4 | 2.4 | 2.4 | 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: P437274
 CATALOG NUMBER: ISS-SA1C-722-U-SLL

CANDELA DISTRIBUTION (continued):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 0° | 936.7 | 936.7 | 936.7 | 936.7 | 936.7 | 936.7 | 936.7 | 936.7 | 936.7 | 936.7 |
| 2.5° | 811.9 | 825.2 | 845.8 | 857.9 | 885.8 | 911.2 | 937.9 | 973.0 | 980.3 | 981.5 |
| 5° | 644.6 | 660.4 | 699.2 | 714.9 | 765.8 | 807.0 | 867.6 | 927.0 | 942.7 | 946.4 |
| 7.5° | 492.0 | 504.1 | 546.5 | 576.8 | 632.5 | 690.7 | 768.2 | 838.5 | 873.7 | 877.3 |
| 10° | 384.1 | 416.8 | 449.6 | 494.4 | 542.9 | 599.8 | 681.0 | 770.7 | 809.4 | 807.0 |
| 12.5° | 323.5 | 357.5 | 397.4 | 442.3 | 492.0 | 542.9 | 616.8 | 716.1 | 754.9 | 764.6 |
| 15° | 259.3 | 300.5 | 344.1 | 390.2 | 448.3 | 498.0 | 584.1 | 694.3 | 741.6 | 754.9 |
| 17.5° | 201.1 | 233.9 | 276.3 | 335.7 | 392.6 | 462.9 | 571.9 | 714.9 | 768.2 | 781.6 |
| 20° | 158.7 | 183.0 | 213.3 | 270.2 | 342.9 | 430.2 | 565.9 | 753.7 | 826.4 | 845.8 |
| 22.5° | 135.7 | 145.4 | 167.2 | 216.9 | 293.2 | 395.0 | 562.2 | 808.2 | 899.1 | 931.8 |
| 25° | 121.2 | 127.2 | 139.3 | 170.9 | 243.6 | 364.7 | 568.3 | 876.1 | 1000.9 | 1027.6 |
| 27.5° | 110.3 | 115.1 | 121.2 | 144.2 | 210.8 | 338.1 | 579.2 | 952.4 | 1088.1 | 1126.9 |
| 30° | 100.6 | 104.2 | 112.7 | 128.4 | 184.2 | 311.4 | 582.8 | 1027.6 | 1165.7 | 1200.8 |
| 32.5° | 93.3 | 98.2 | 105.4 | 118.8 | 168.4 | 293.2 | 573.2 | 1084.5 | 1237.2 | 1276.0 |
| 35° | 86.0 | 92.1 | 99.4 | 110.3 | 155.1 | 277.5 | 551.3 | 1131.8 | 1305.0 | 1342.6 |
| 37.5° | 82.4 | 86.0 | 93.3 | 101.8 | 145.4 | 261.7 | 532.0 | 1179.0 | 1375.3 | 1427.4 |
| 40° | 77.6 | 81.2 | 88.5 | 95.7 | 133.3 | 244.8 | 518.6 | 1239.6 | 1455.3 | 1502.6 |
| 42.5° | 73.9 | 78.8 | 84.8 | 93.3 | 123.6 | 226.6 | 505.3 | 1288.1 | 1526.8 | 1576.5 |
| 45° | 71.5 | 76.3 | 82.4 | 93.3 | 115.1 | 212.1 | 490.8 | 1330.5 | 1581.3 | 1629.8 |
| 47.5° | 67.9 | 73.9 | 82.4 | 89.7 | 111.5 | 202.4 | 490.8 | 1381.4 | 1631.0 | 1681.9 |
| 50° | 66.6 | 72.7 | 86.0 | 87.2 | 109.1 | 198.7 | 511.4 | 1439.5 | 1702.5 | 1751.0 |
| 52.5° | 65.4 | 71.5 | 86.0 | 82.4 | 106.6 | 201.1 | 542.9 | 1545.0 | 1794.6 | 1850.3 |
| 55° | 61.8 | 70.3 | 82.4 | 76.3 | 100.6 | 203.6 | 578.0 | 1683.1 | 1931.5 | 1983.6 |
| 57.5° | 59.4 | 69.1 | 77.6 | 70.3 | 92.1 | 199.9 | 625.3 | 1806.7 | 2074.5 | 2110.8 |
| 60° | 55.7 | 67.9 | 67.9 | 65.4 | 82.4 | 189.0 | 678.6 | 1885.5 | 2129.0 | 2158.1 |
| 62.5° | 53.3 | 66.6 | 60.6 | 60.6 | 75.1 | 172.1 | 696.7 | 1866.1 | 2075.7 | 2107.2 |
| 65° | 49.7 | 58.2 | 54.5 | 55.7 | 69.1 | 152.7 | 665.2 | 1744.9 | 1975.1 | 2012.7 |
| 67.5° | 46.0 | 49.7 | 48.5 | 50.9 | 66.6 | 133.3 | 580.4 | 1600.7 | 1845.5 | 1903.6 |
| 70° | 41.2 | 43.6 | 43.6 | 46.0 | 63.0 | 120.0 | 484.7 | 1415.3 | 1677.0 | 1763.1 |
| 72.5° | 37.6 | 38.8 | 38.8 | 42.4 | 59.4 | 112.7 | 382.9 | 1200.8 | 1406.8 | 1460.1 |
| 75° | 31.5 | 33.9 | 33.9 | 36.4 | 53.3 | 95.7 | 261.7 | 879.7 | 983.9 | 1027.6 |
| 77.5° | 27.9 | 27.9 | 29.1 | 30.3 | 42.4 | 64.2 | 153.9 | 541.6 | 591.3 | 614.4 |
| 80° | 21.8 | 23.0 | 21.8 | 21.8 | 26.7 | 42.4 | 83.6 | 317.5 | 359.9 | 347.8 |
| 82.5° | 15.8 | 15.8 | 13.3 | 13.3 | 15.8 | 23.0 | 36.4 | 164.8 | 168.4 | 162.4 |
| 85° | 8.5 | 6.1 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 35.1 | 17.0 | 13.3 |
| 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 |

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



Test Information

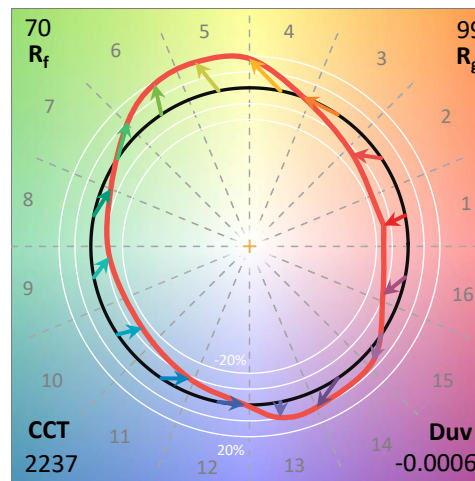
Test Method: LM-79-2008 Report
 Number: SP1-1908-441-10-R4
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/28/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGRAW-EDISON
 Catalog Number: **SA1C-722-U-5WQ**
 Description: McGRAW 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): 2237
 CIE u': 0.2876
 CIE v': 0.5346
 Duv: -0.0006
 CIE x: 0.5005
 CIE y: 0.4134
 CIE z: 0.0860
 Peak Wavelength (nm): 603
 Dominant Wavelength (nm): 587
 Purity: 74.5
 Rf: 69.8
 Rg: 99.2

| | | | |
|-----------|------|------|-------|
| CRI (Ra): | 72.0 | | |
| R1: | 68.9 | R9: | -17.4 |
| R2: | 83.0 | R10: | 61.3 |
| R3: | 95.2 | R11: | 59.8 |
| R4: | 66.2 | R12: | 50.5 |
| R5: | 65.9 | R13: | 71.1 |
| R6: | 76.3 | R14: | 96.9 |
| R7: | 76.7 | | |
| R8: | 43.8 | | |



Test Conditions

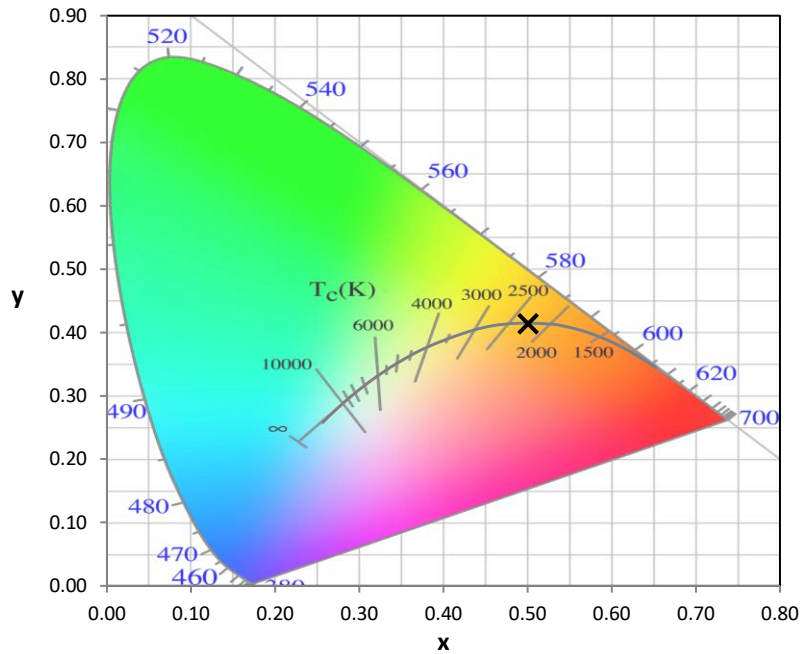
Stabilization Time: 71M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 24.7/41%
 Sphere Temperature (°C): 25.6

REPORT NUMBER: SP1-1908-441-10-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: SP1-1908-441-10-R4

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-1908-441-10-R4

Photopic Flux vs. Wavelength

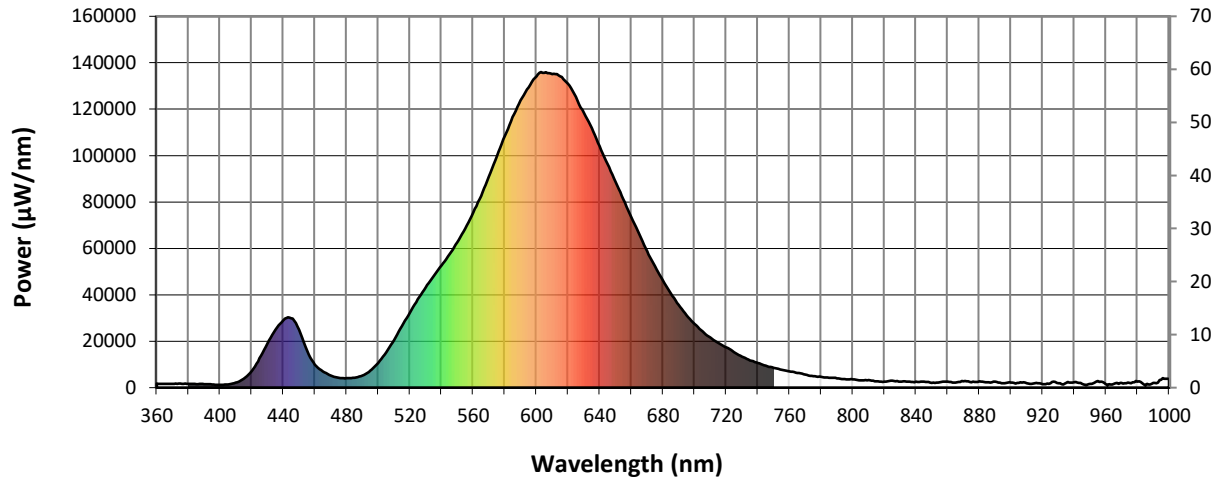


#####

| 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 | 1768 | NR | 490 | 5206 | NR | 620 | 130919 | NR | 750 | 8553 | NR | 880 | 2713 | NR |
| 365 | 1569 | NR | 495 | 7286 | NR | 625 | 125335 | NR | 755 | 7696 | NR | 885 | 2316 | NR |
| 370 | 1594 | NR | 500 | 10654 | NR | 630 | 118388 | NR | 760 | 6978 | NR | 890 | 2539 | NR |
| 375 | 1744 | NR | 505 | 15189 | NR | 635 | 111855 | NR | 765 | 6377 | NR | 895 | 1933 | NR |
| 380 | 1659 | NR | 510 | 20541 | NR | 640 | 104062 | NR | 770 | 5600 | NR | 900 | 2216 | NR |
| 385 | 1504 | NR | 515 | 26492 | NR | 645 | 96365 | NR | 775 | 5000 | NR | 905 | 2067 | NR |
| 390 | 1541 | NR | 520 | 32294 | NR | 650 | 88651 | NR | 780 | 4709 | NR | 910 | 1959 | NR |
| 395 | 1355 | NR | 525 | 38123 | NR | 655 | 81152 | NR | 785 | 4305 | NR | 915 | 1874 | NR |
| 400 | 1243 | NR | 530 | 43232 | NR | 660 | 73523 | NR | 790 | 4040 | NR | 920 | 1484 | NR |
| 405 | 1417 | NR | 535 | 48012 | NR | 665 | 66123 | NR | 795 | 3642 | NR | 925 | 1914 | NR |
| 410 | 2147 | NR | 540 | 52623 | NR | 670 | 58677 | NR | 800 | 3594 | NR | 930 | 1948 | NR |
| 415 | 3837 | NR | 545 | 57516 | NR | 675 | 52349 | NR | 805 | 3190 | NR | 935 | 2079 | NR |
| 420 | 7159 | NR | 550 | 62613 | NR | 680 | 46159 | NR | 810 | 3241 | NR | 940 | 2263 | NR |
| 425 | 12599 | NR | 555 | 68554 | NR | 685 | 40525 | NR | 815 | 2732 | NR | 945 | 1688 | NR |
| 430 | 19019 | NR | 560 | 75325 | NR | 690 | 35615 | NR | 820 | 2612 | NR | 950 | 1560 | NR |
| 435 | 24875 | NR | 565 | 82533 | NR | 695 | 31158 | NR | 825 | 2966 | NR | 955 | 2826 | NR |
| 440 | 29103 | NR | 570 | 90909 | NR | 700 | 27409 | NR | 830 | 2574 | NR | 960 | 1477 | NR |
| 445 | 29901 | NR | 575 | 99621 | NR | 705 | 24204 | NR | 835 | 2633 | NR | 965 | 1568 | NR |
| 450 | 24862 | NR | 580 | 108484 | NR | 710 | 21558 | NR | 840 | 2526 | NR | 970 | 2030 | NR |
| 455 | 15942 | NR | 585 | 116679 | NR | 715 | 19222 | NR | 845 | 2631 | NR | 975 | 1986 | NR |
| 460 | 9916 | NR | 590 | 123752 | NR | 720 | 17310 | NR | 850 | 2079 | NR | 980 | 2540 | NR |
| 465 | 7051 | NR | 595 | 129324 | NR | 725 | 15280 | NR | 855 | 2309 | NR | 985 | 1139 | NR |
| 470 | 5227 | NR | 600 | 134082 | NR | 730 | 13282 | NR | 860 | 2528 | NR | 990 | 2018 | NR |
| 475 | 4257 | NR | 605 | 135698 | NR | 735 | 11753 | NR | 865 | 2121 | NR | 995 | 3445 | NR |
| 480 | 4052 | NR | 610 | 135144 | NR | 740 | 10654 | NR | 870 | 2751 | NR | 1000 | 3704 | NR |
| 485 | 4298 | NR | 615 | 134180 | NR | 745 | 9451 | NR | 875 | 2317 | NR | | | |

REPORT NUMBER: SP1-1908-441-10-R4

Scotopic Flux vs. Wavelength



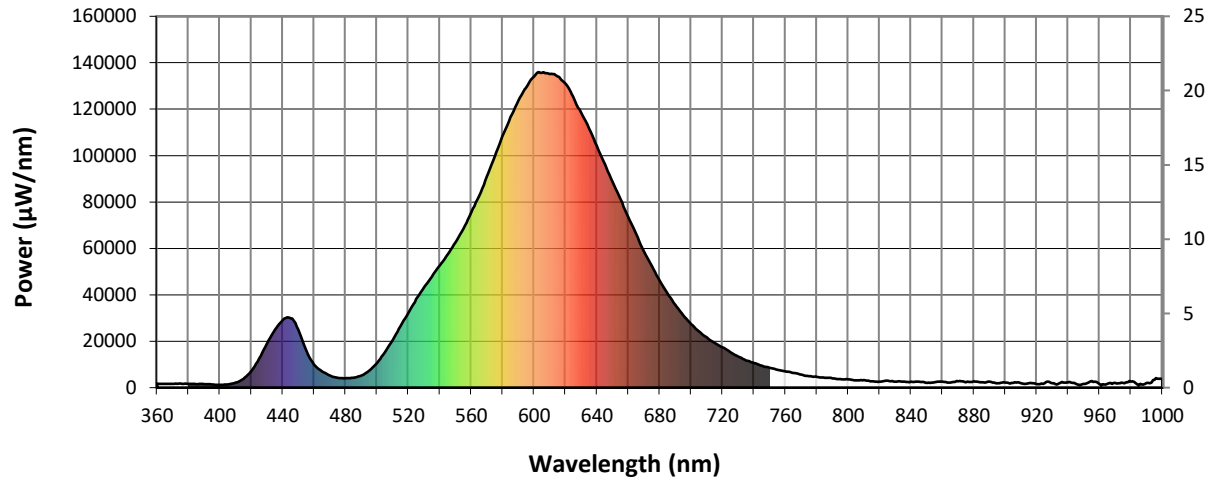
Scotopic Lumens: 4696.9

S/P: 0.85

| 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 | 1768 | NR | 490 | 5206 | NR | 620 | 130919 | NR | 750 | 8553 | NR | 880 | 2713 | NR |
| 365 | 1569 | NR | 495 | 7286 | NR | 625 | 125335 | NR | 755 | 7696 | NR | 885 | 2316 | NR |
| 370 | 1594 | NR | 500 | 10654 | NR | 630 | 118388 | NR | 760 | 6978 | NR | 890 | 2539 | NR |
| 375 | 1744 | NR | 505 | 15189 | NR | 635 | 111855 | NR | 765 | 6377 | NR | 895 | 1933 | NR |
| 380 | 1659 | NR | 510 | 20541 | NR | 640 | 104062 | NR | 770 | 5600 | NR | 900 | 2216 | NR |
| 385 | 1504 | NR | 515 | 26492 | NR | 645 | 96365 | NR | 775 | 5000 | NR | 905 | 2067 | NR |
| 390 | 1541 | NR | 520 | 32294 | NR | 650 | 88651 | NR | 780 | 4709 | NR | 910 | 1959 | NR |
| 395 | 1355 | NR | 525 | 38123 | NR | 655 | 81152 | NR | 785 | 4305 | NR | 915 | 1874 | NR |
| 400 | 1243 | NR | 530 | 43232 | NR | 660 | 73523 | NR | 790 | 4040 | NR | 920 | 1484 | NR |
| 405 | 1417 | NR | 535 | 48012 | NR | 665 | 66123 | NR | 795 | 3642 | NR | 925 | 1914 | NR |
| 410 | 2147 | NR | 540 | 52623 | NR | 670 | 58677 | NR | 800 | 3594 | NR | 930 | 1948 | NR |
| 415 | 3837 | NR | 545 | 57516 | NR | 675 | 52349 | NR | 805 | 3190 | NR | 935 | 2079 | NR |
| 420 | 7159 | NR | 550 | 62613 | NR | 680 | 46159 | NR | 810 | 3241 | NR | 940 | 2263 | NR |
| 425 | 12599 | NR | 555 | 68554 | NR | 685 | 40525 | NR | 815 | 2732 | NR | 945 | 1688 | NR |
| 430 | 19019 | NR | 560 | 75325 | NR | 690 | 35615 | NR | 820 | 2612 | NR | 950 | 1560 | NR |
| 435 | 24875 | NR | 565 | 82533 | NR | 695 | 31158 | NR | 825 | 2966 | NR | 955 | 2826 | NR |
| 440 | 29103 | NR | 570 | 90909 | NR | 700 | 27409 | NR | 830 | 2574 | NR | 960 | 1477 | NR |
| 445 | 29901 | NR | 575 | 99621 | NR | 705 | 24204 | NR | 835 | 2633 | NR | 965 | 1568 | NR |
| 450 | 24862 | NR | 580 | 108484 | NR | 710 | 21558 | NR | 840 | 2526 | NR | 970 | 2030 | NR |
| 455 | 15942 | NR | 585 | 116679 | NR | 715 | 19222 | NR | 845 | 2631 | NR | 975 | 1986 | NR |
| 460 | 9916 | NR | 590 | 123752 | NR | 720 | 17310 | NR | 850 | 2079 | NR | 980 | 2540 | NR |
| 465 | 7051 | NR | 595 | 129324 | NR | 725 | 15280 | NR | 855 | 2309 | NR | 985 | 1139 | NR |
| 470 | 5227 | NR | 600 | 134082 | NR | 730 | 13282 | NR | 860 | 2528 | NR | 990 | 2018 | NR |
| 475 | 4257 | NR | 605 | 135698 | NR | 735 | 11753 | NR | 865 | 2121 | NR | 995 | 3445 | NR |
| 480 | 4052 | NR | 610 | 135144 | NR | 740 | 10654 | NR | 870 | 2751 | NR | 1000 | 3704 | NR |
| 485 | 4298 | NR | 615 | 134180 | NR | 745 | 9451 | NR | 875 | 2317 | NR | | | |

REPORT NUMBER: SP1-1908-441-10-R4

Melanopic Flux vs. Wavelength



Melanopic Lumens: 1470.8 M/P: 0.27

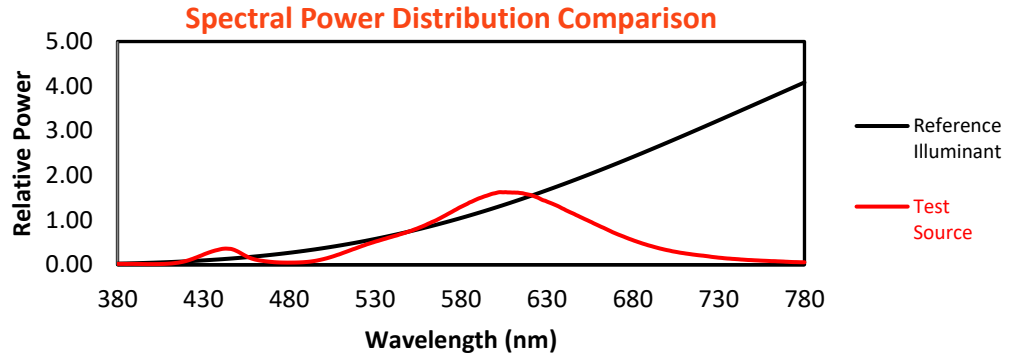
| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360 | 1768 | NR | 490 | 5206 | NR | 620 | 130919 | NR | 750 | 8553 | NR | 880 | 2713 | NR |
| 365 | 1569 | NR | 495 | 7286 | NR | 625 | 125335 | NR | 755 | 7696 | NR | 885 | 2316 | NR |
| 370 | 1594 | NR | 500 | 10654 | NR | 630 | 118388 | NR | 760 | 6978 | NR | 890 | 2539 | NR |
| 375 | 1744 | NR | 505 | 15189 | NR | 635 | 111855 | NR | 765 | 6377 | NR | 895 | 1933 | NR |
| 380 | 1659 | NR | 510 | 20541 | NR | 640 | 104062 | NR | 770 | 5600 | NR | 900 | 2216 | NR |
| 385 | 1504 | NR | 515 | 26492 | NR | 645 | 96365 | NR | 775 | 5000 | NR | 905 | 2067 | NR |
| 390 | 1541 | NR | 520 | 32294 | NR | 650 | 88651 | NR | 780 | 4709 | NR | 910 | 1959 | NR |
| 395 | 1355 | NR | 525 | 38123 | NR | 655 | 81152 | NR | 785 | 4305 | NR | 915 | 1874 | NR |
| 400 | 1243 | NR | 530 | 43232 | NR | 660 | 73523 | NR | 790 | 4040 | NR | 920 | 1484 | NR |
| 405 | 1417 | NR | 535 | 48012 | NR | 665 | 66123 | NR | 795 | 3642 | NR | 925 | 1914 | NR |
| 410 | 2147 | NR | 540 | 52623 | NR | 670 | 58677 | NR | 800 | 3594 | NR | 930 | 1948 | NR |
| 415 | 3837 | NR | 545 | 57516 | NR | 675 | 52349 | NR | 805 | 3190 | NR | 935 | 2079 | NR |
| 420 | 7159 | NR | 550 | 62613 | NR | 680 | 46159 | NR | 810 | 3241 | NR | 940 | 2263 | NR |
| 425 | 12599 | NR | 555 | 68554 | NR | 685 | 40525 | NR | 815 | 2732 | NR | 945 | 1688 | NR |
| 430 | 19019 | NR | 560 | 75325 | NR | 690 | 35615 | NR | 820 | 2612 | NR | 950 | 1560 | NR |
| 435 | 24875 | NR | 565 | 82533 | NR | 695 | 31158 | NR | 825 | 2966 | NR | 955 | 2826 | NR |
| 440 | 29103 | NR | 570 | 90909 | NR | 700 | 27409 | NR | 830 | 2574 | NR | 960 | 1477 | NR |
| 445 | 29901 | NR | 575 | 99621 | NR | 705 | 24204 | NR | 835 | 2633 | NR | 965 | 1568 | NR |
| 450 | 24862 | NR | 580 | 108484 | NR | 710 | 21558 | NR | 840 | 2526 | NR | 970 | 2030 | NR |
| 455 | 15942 | NR | 585 | 116679 | NR | 715 | 19222 | NR | 845 | 2631 | NR | 975 | 1986 | NR |
| 460 | 9916 | NR | 590 | 123752 | NR | 720 | 17310 | NR | 850 | 2079 | NR | 980 | 2540 | NR |
| 465 | 7051 | NR | 595 | 129324 | NR | 725 | 15280 | NR | 855 | 2309 | NR | 985 | 1139 | NR |
| 470 | 5227 | NR | 600 | 134082 | NR | 730 | 13282 | NR | 860 | 2528 | NR | 990 | 2018 | NR |
| 475 | 4257 | NR | 605 | 135698 | NR | 735 | 11753 | NR | 865 | 2121 | NR | 995 | 3445 | NR |
| 480 | 4052 | NR | 610 | 135144 | NR | 740 | 10654 | NR | 870 | 2751 | NR | 1000 | 3704 | NR |
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REPORT NUMBER: SP1-1908-441-10-R4

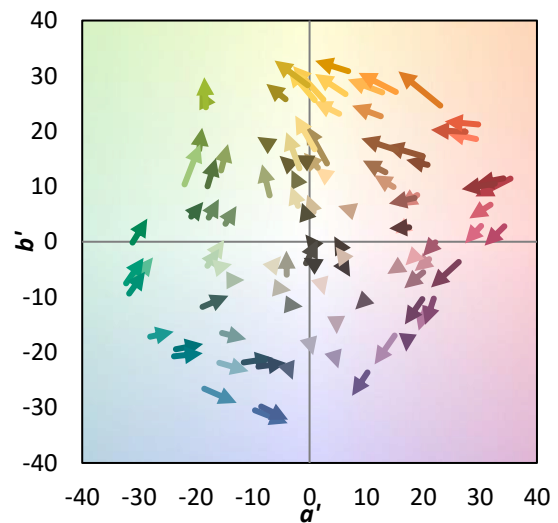
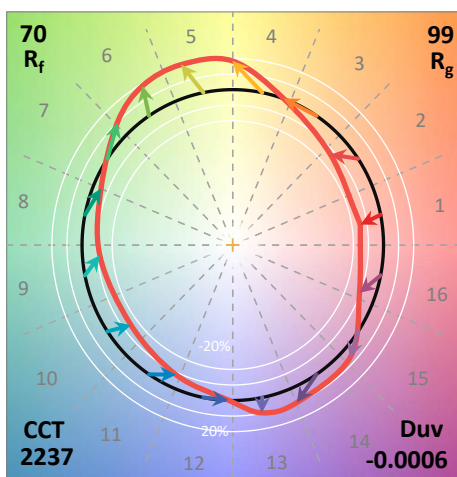
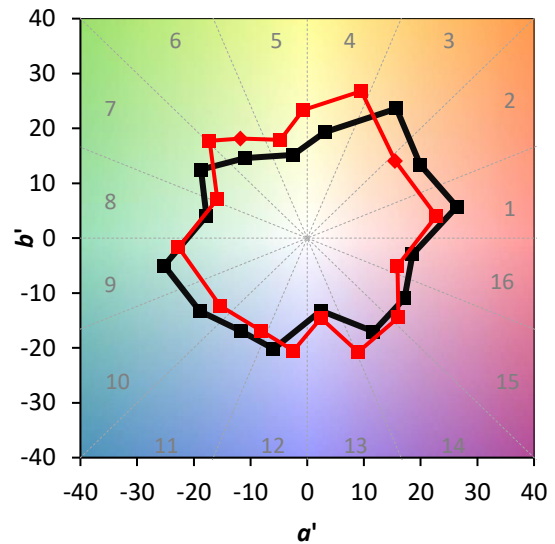
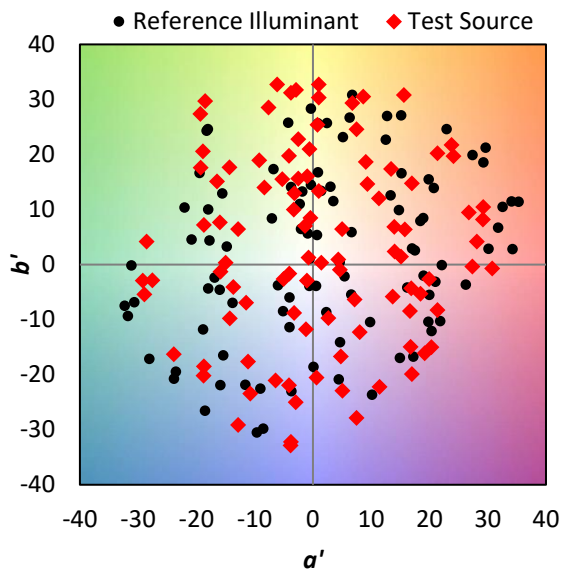
TM-30-18

Summary

$R_f = 69.8$
 $R_g = 99.2$
 CIE $R_a = 72.0$
 $R_9 = -17.4$



Color Vector Graphics

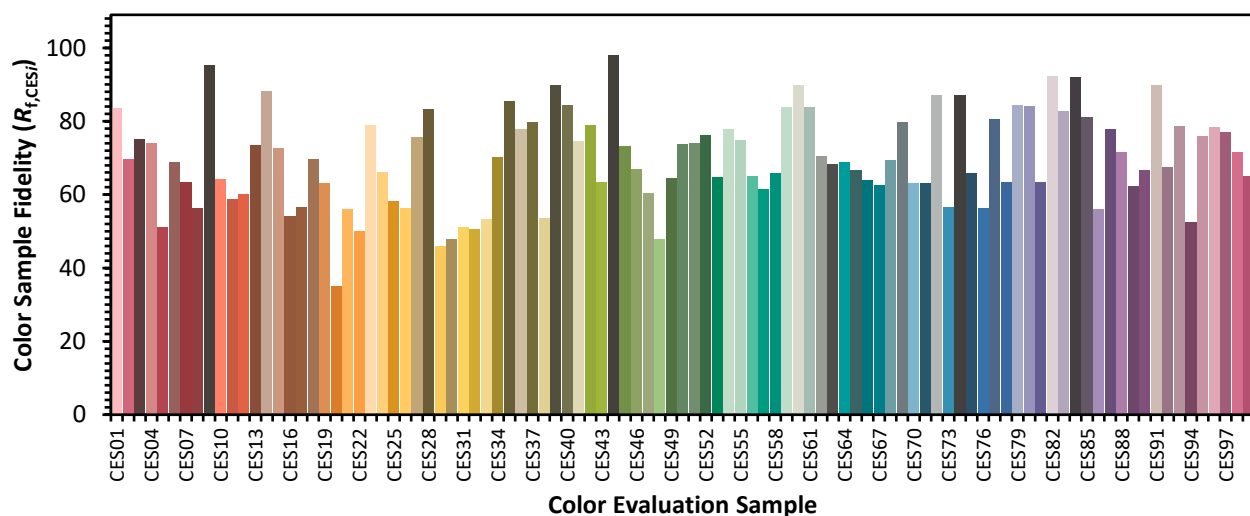


REPORT NUMBER: SP1-1908-441-10-R4

TM-30-18

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

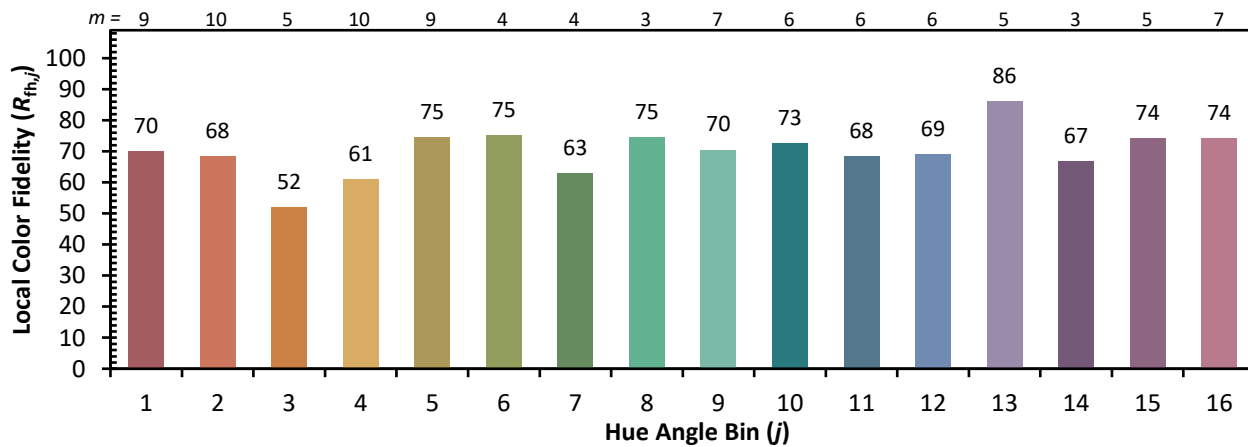
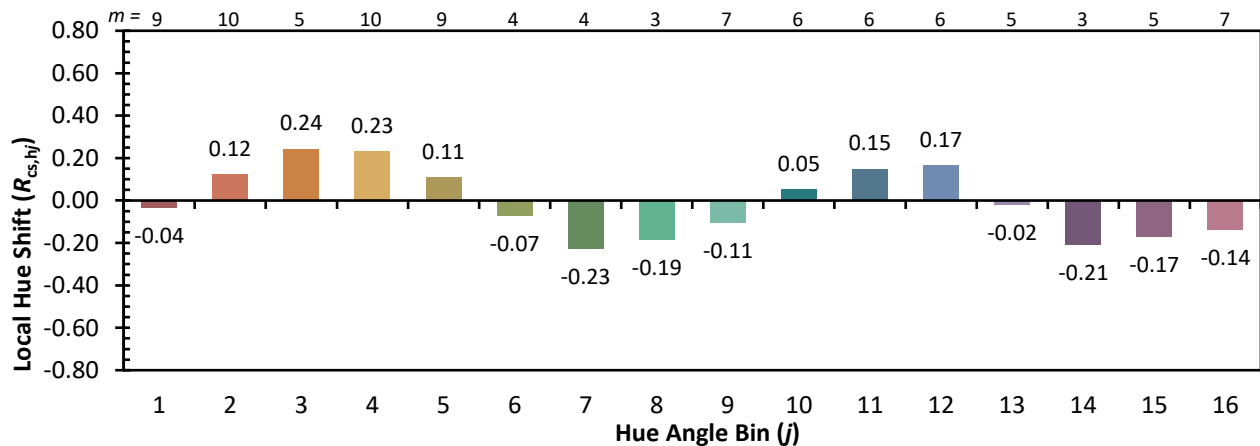
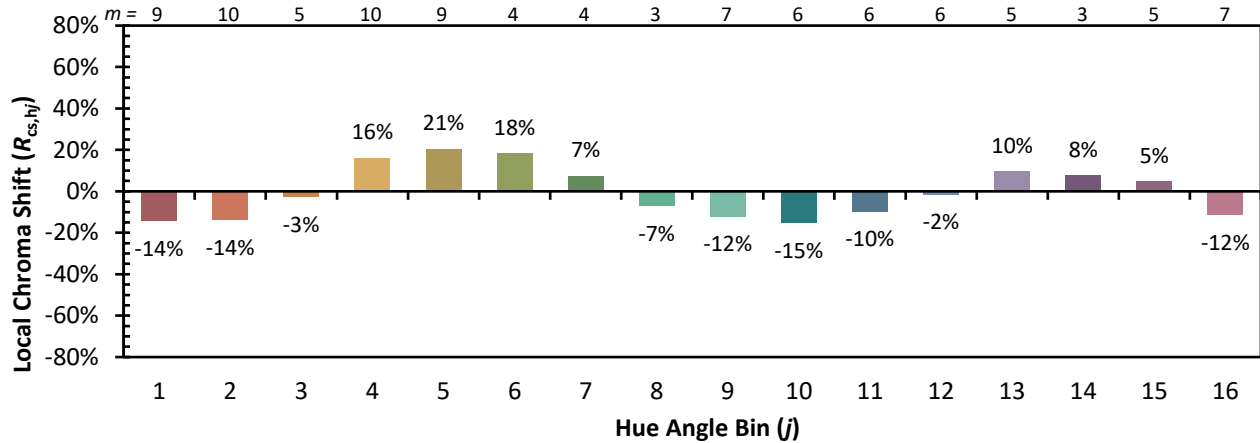
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|------------|------------|------------|------------|
| CES01 = 87 | CES26 = 56 | CES51 = 74 | CES76 = 56 |
| CES02 = 65 | CES27 = 76 | CES52 = 76 | CES77 = 81 |
| CES03 = 32 | CES28 = 83 | CES53 = 65 | CES78 = 63 |
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| CES06 = 52 | CES31 = 51 | CES56 = 65 | CES81 = 63 |
| CES07 = 44 | CES32 = 51 | CES57 = 62 | CES82 = 92 |
| CES08 = 42 | CES33 = 53 | CES58 = 66 | CES83 = 83 |
| CES09 = 29 | CES34 = 70 | CES59 = 84 | CES84 = 92 |
| CES10 = 78 | CES35 = 85 | CES60 = 90 | CES85 = 81 |
| CES11 = 61 | CES36 = 78 | CES61 = 84 | CES86 = 56 |
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| CES13 = 45 | CES38 = 53 | CES63 = 68 | CES88 = 72 |
| CES14 = 75 | CES39 = 90 | CES64 = 69 | CES89 = 62 |
| CES15 = 72 | CES40 = 84 | CES65 = 67 | CES90 = 67 |
| CES16 = 49 | CES41 = 75 | CES66 = 64 | CES91 = 90 |
| CES17 = 51 | CES42 = 79 | CES67 = 63 | CES92 = 67 |
| CES18 = 57 | CES43 = 64 | CES68 = 69 | CES93 = 79 |
| CES19 = 74 | CES44 = 98 | CES69 = 80 | CES94 = 52 |
| CES20 = 68 | CES45 = 73 | CES70 = 63 | CES95 = 76 |
| CES21 = 89 | CES46 = 67 | CES71 = 63 | CES96 = 78 |
| CES22 = 81 | CES47 = 60 | CES72 = 87 | CES97 = 77 |
| CES23 = 92 | CES48 = 48 | CES73 = 56 | CES98 = 71 |
| CES24 = 92 | CES49 = 64 | CES74 = 87 | CES99 = 65 |
| CES25 = 74 | CES50 = 74 | CES75 = 66 | |



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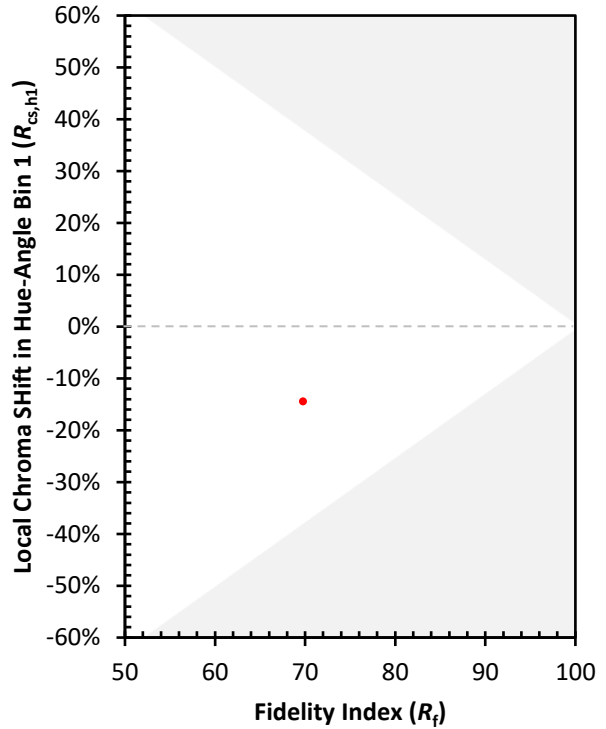
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)