

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: P385634

Luminaire Tested: **GPC-SA1B-722-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P385634
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GPC-SA1B-722-U-SLL-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 2200K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3327 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

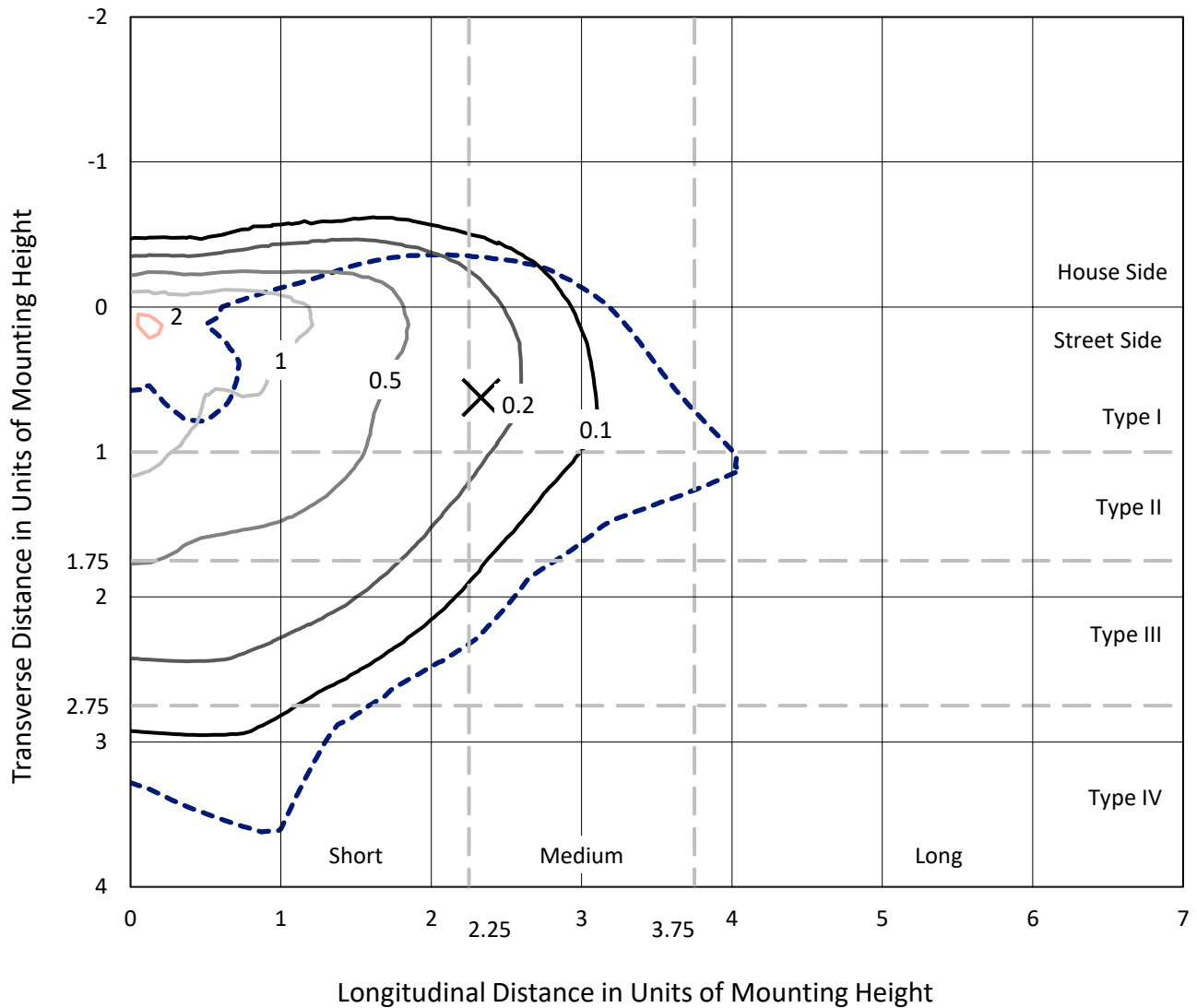
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

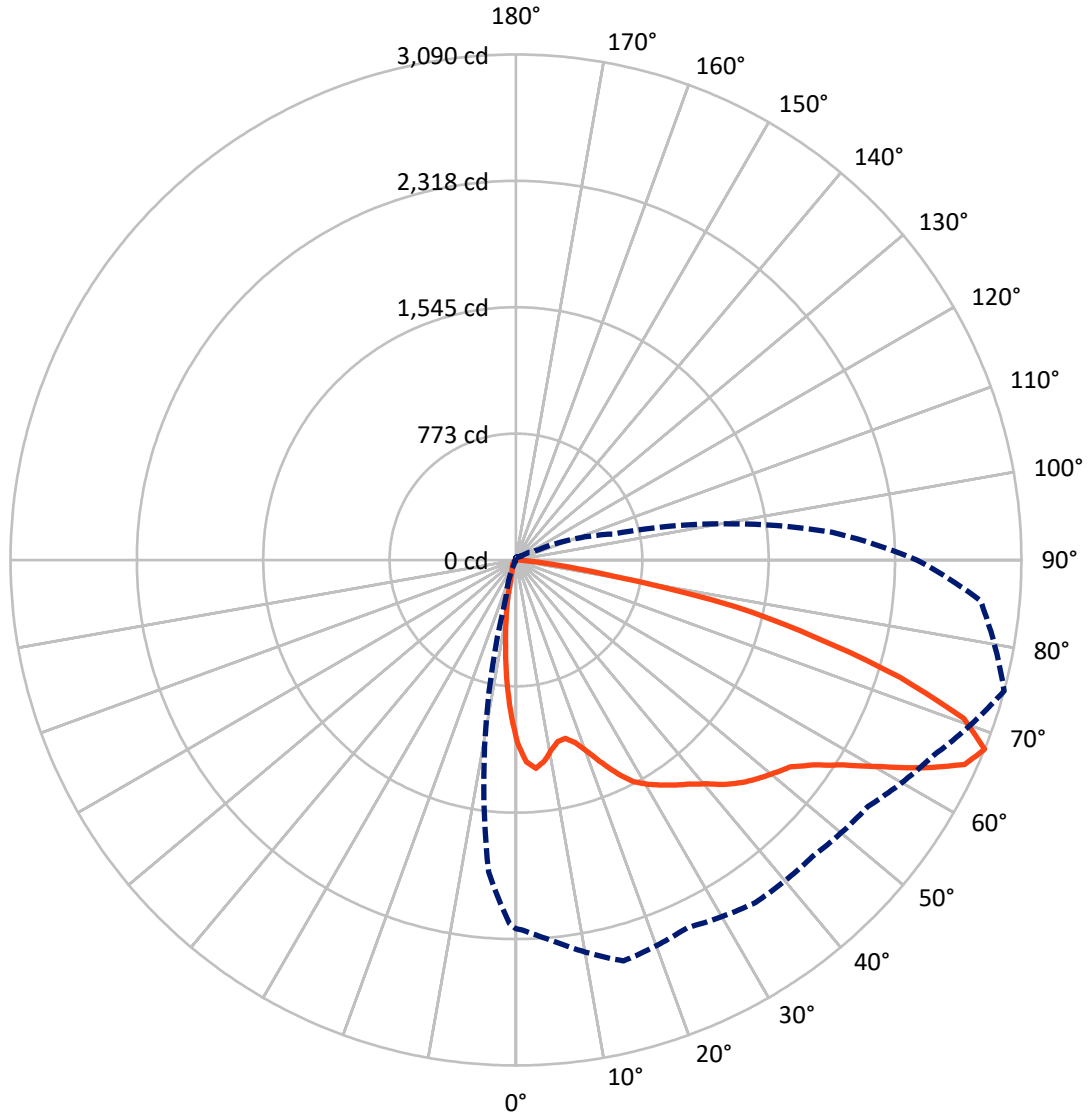
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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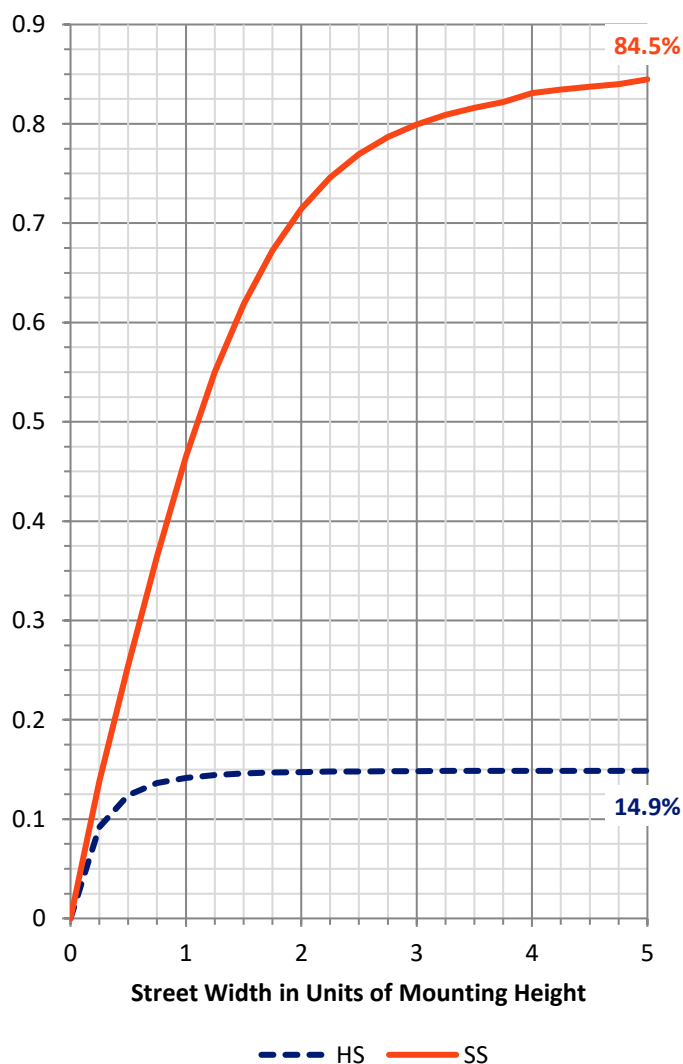
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 499.2 | 0.0 | 499.2 |
| | % Fixture | 15.0 | 0.0 | 15.0 |
| Street Side | Lumens | 2827.8 | 0.0 | 2827.8 |
| | % Fixture | 85.0 | 0.0 | 85.0 |
| Total | Lumens | 3327.0 | 0.0 | 3327.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 84.7 | 2.5 |
| 10°-20° | 166.7 | 5.0 |
| 20°-30° | 235.8 | 7.1 |
| 30°-40° | 346.8 | 10.4 |
| 40°-50° | 498.4 | 15.0 |
| 50°-60° | 701.6 | 21.1 |
| 60°-70° | 819.4 | 24.6 |
| 70°-80° | 418.0 | 12.6 |
| 80°-90° | 55.5 | 1.7 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 3327.0 | 100.0 |
| 0°-180° | 3327.0 | 100.0 |

Coefficient of Utilization



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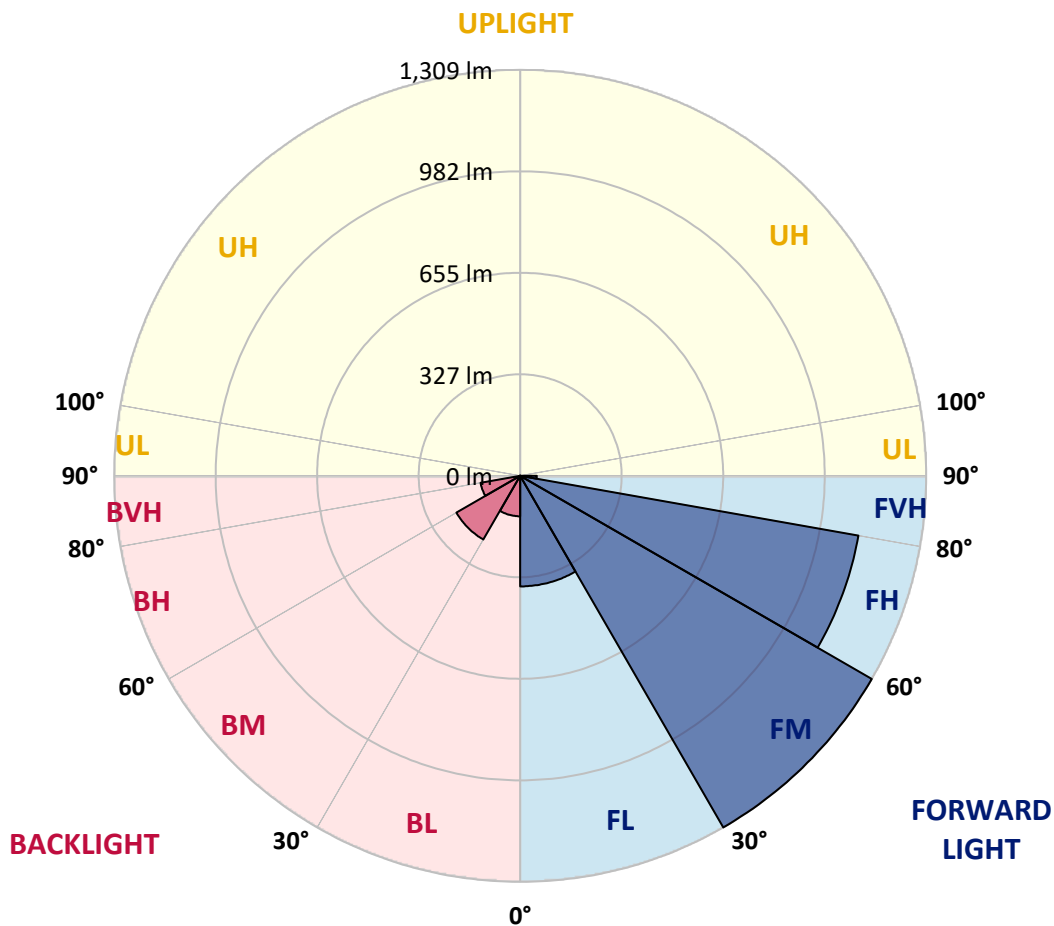
CATALOG NUMBER: GPC-SA1B-722-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 356.7 | 10.7 | | | |
| FM (30°-60°) | 1309.5 | 39.4 | | | |
| FH (60°-80°) | 1107.8 | 33.3 | | | G1/1800 |
| FVH (80°-90°) | 53.8 | 1.6 | | | G1/100 |
| BL (0°-30°) | 130.6 | 3.9 | B1/500 | | |
| BM (30°-60°) | 237.3 | 7.1 | B1/1000 | | |
| BH (60°-80°) | 129.7 | 3.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.7 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1116.2 | 1116.2 | 1116.2 | 1116.2 | 1116.2 | 1116.2 | 1116.2 | 1116.2 | 1116.2 | 1116.2 | 1116.2 |
| 2.5° | 1209.9 | 1211.8 | 1221.6 | 1244.3 | 1269.0 | 1270.9 | 1287.6 | 1270.4 | 1264.6 | 1236.9 | 1208.2 |
| 5° | 1219.1 | 1226.3 | 1259.9 | 1326.6 | 1384.4 | 1403.0 | 1416.2 | 1382.5 | 1347.0 | 1279.3 | 1206.9 |
| 7.5° | 1145.5 | 1157.6 | 1210.4 | 1335.5 | 1438.9 | 1484.6 | 1493.3 | 1440.5 | 1353.7 | 1242.1 | 1133.3 |
| 10° | 1051.2 | 1065.1 | 1128.8 | 1282.6 | 1424.6 | 1502.9 | 1514.9 | 1445.7 | 1320.9 | 1181.9 | 1053.7 |
| 12.5° | 974.9 | 991.2 | 1056.3 | 1223.0 | 1375.3 | 1461.9 | 1485.6 | 1428.2 | 1292.5 | 1139.2 | 999.4 |
| 15° | 939.8 | 958.4 | 1026.8 | 1184.6 | 1320.6 | 1388.8 | 1408.3 | 1383.6 | 1276.8 | 1132.4 | 986.8 |
| 17.5° | 960.0 | 980.1 | 1050.7 | 1187.9 | 1269.2 | 1298.3 | 1314.1 | 1324.2 | 1276.8 | 1173.2 | 1023.6 |
| 20° | 1042.7 | 1064.5 | 1139.2 | 1221.4 | 1226.6 | 1215.8 | 1232.6 | 1268.1 | 1291.6 | 1250.7 | 1112.2 |
| 22.5° | 1157.1 | 1182.7 | 1267.0 | 1279.0 | 1205.8 | 1164.7 | 1166.9 | 1222.5 | 1318.5 | 1349.1 | 1235.1 |
| 25° | 1296.6 | 1327.8 | 1413.6 | 1364.7 | 1214.5 | 1134.3 | 1133.5 | 1185.0 | 1344.8 | 1447.6 | 1372.1 |
| 27.5° | 1435.1 | 1469.5 | 1544.8 | 1469.3 | 1250.3 | 1128.8 | 1127.2 | 1173.7 | 1370.5 | 1535.2 | 1521.7 |
| 30° | 1551.3 | 1584.7 | 1649.6 | 1545.1 | 1288.9 | 1141.7 | 1134.1 | 1185.8 | 1385.8 | 1592.1 | 1630.7 |
| 32.5° | 1645.9 | 1672.7 | 1725.1 | 1597.3 | 1330.2 | 1166.7 | 1150.4 | 1218.3 | 1411.8 | 1640.2 | 1731.0 |
| 35° | 1749.9 | 1778.1 | 1799.0 | 1647.0 | 1376.5 | 1202.8 | 1179.4 | 1269.8 | 1451.8 | 1689.0 | 1840.8 |
| 37.5° | 1868.6 | 1896.6 | 1894.1 | 1692.4 | 1435.3 | 1262.6 | 1247.6 | 1351.5 | 1514.1 | 1737.4 | 1963.4 |
| 40° | 1984.7 | 2013.4 | 1992.9 | 1742.0 | 1504.3 | 1361.1 | 1350.0 | 1474.1 | 1597.5 | 1799.4 | 2107.2 |
| 42.5° | 2093.5 | 2124.5 | 2080.7 | 1789.0 | 1586.6 | 1485.3 | 1504.2 | 1632.0 | 1701.8 | 1875.6 | 2231.0 |
| 45° | 2181.1 | 2212.8 | 2154.3 | 1834.7 | 1673.3 | 1635.9 | 1692.8 | 1806.9 | 1827.3 | 1940.1 | 2314.7 |
| 47.5° | 2244.8 | 2274.7 | 2205.4 | 1880.4 | 1784.2 | 1820.2 | 1919.3 | 1990.4 | 1940.6 | 1996.1 | 2374.1 |
| 50° | 2285.4 | 2308.7 | 2220.3 | 1937.6 | 1929.9 | 2035.1 | 2155.2 | 2189.9 | 2047.3 | 2046.5 | 2446.3 |
| 52.5° | 2311.3 | 2321.8 | 2231.4 | 1997.3 | 2081.8 | 2269.2 | 2386.3 | 2397.2 | 2157.1 | 2102.0 | 2543.6 |
| 55° | 2400.3 | 2408.8 | 2309.5 | 2069.7 | 2207.4 | 2474.2 | 2595.3 | 2585.2 | 2281.5 | 2210.6 | 2658.3 |
| 57.5° | 2552.2 | 2561.2 | 2471.1 | 2173.7 | 2309.1 | 2600.9 | 2746.7 | 2764.8 | 2427.3 | 2363.1 | 2781.2 |
| 60° | 2628.5 | 2645.2 | 2613.1 | 2305.4 | 2407.6 | 2681.9 | 2850.0 | 2907.8 | 2609.4 | 2564.2 | 2900.4 |
| 62.5° | 2559.3 | 2583.6 | 2630.3 | 2451.5 | 2505.4 | 2726.5 | 2882.1 | 2959.0 | 2796.1 | 2798.6 | 2973.8 |
| 65° | 2421.3 | 2440.7 | 2519.8 | 2531.6 | 2562.2 | 2721.0 | 2802.7 | 2887.5 | 2910.3 | 3013.9 | 2969.9 |
| 67.5° | 2254.5 | 2261.8 | 2328.9 | 2537.9 | 2479.9 | 2555.2 | 2564.1 | 2626.8 | 2820.0 | 3090.1 | 2850.6 |
| 70° | 2014.5 | 2018.4 | 2077.1 | 2326.9 | 2131.1 | 2147.7 | 2134.6 | 2147.4 | 2424.4 | 2904.3 | 2549.4 |
| 72.5° | 1621.3 | 1631.2 | 1714.6 | 1932.4 | 1552.6 | 1504.8 | 1607.6 | 1601.9 | 1867.1 | 2453.7 | 1893.5 |
| 75° | 1193.7 | 1210.9 | 1336.8 | 1556.5 | 1089.7 | 985.7 | 1060.7 | 1080.7 | 1327.3 | 1898.0 | 1184.1 |
| 77.5° | 835.8 | 848.5 | 970.5 | 1144.2 | 788.7 | 704.8 | 677.7 | 701.5 | 876.1 | 1373.0 | 596.5 |
| 80° | 481.5 | 486.2 | 564.1 | 660.7 | 531.4 | 608.0 | 550.8 | 567.2 | 525.0 | 610.9 | 256.6 |
| 82.5° | 315.1 | 315.8 | 346.3 | 393.2 | 331.0 | 384.6 | 284.6 | 363.9 | 322.9 | 245.4 | 83.5 |
| 85° | 170.2 | 171.2 | 200.8 | 279.1 | 187.4 | 105.9 | 62.3 | 127.8 | 199.7 | 56.3 | 22.9 |
| 87.5° | 18.8 | 17.2 | 60.5 | 101.5 | 52.0 | 9.6 | 3.3 | 14.3 | 32.0 | 3.6 | 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° | 1116.2 | 1116.2 | 1116.2 | 1116.2 | 1116.2 | 1116.2 | 1116.2 | 1116.2 | 1116.2 | 1116.2 | 1116.2 |
| 2.5° | 1193.5 | 1180.5 | 1147.8 | 1113.3 | 1085.6 | 1059.6 | 1033.4 | 1001.4 | 976.7 | 971.6 | 963.4 |
| 5° | 1168.0 | 1126.6 | 1058.2 | 989.4 | 934.1 | 864.3 | 820.0 | 785.5 | 751.8 | 749.7 | 742.9 |
| 7.5° | 1078.8 | 1024.3 | 928.0 | 832.9 | 755.1 | 688.6 | 621.4 | 576.5 | 541.2 | 528.8 | 521.4 |
| 10° | 993.1 | 931.8 | 811.5 | 703.1 | 633.6 | 574.8 | 527.5 | 480.5 | 438.0 | 408.7 | 395.4 |
| 12.5° | 933.2 | 865.4 | 732.9 | 639.4 | 589.6 | 533.8 | 476.1 | 417.5 | 368.5 | 333.2 | 311.6 |
| 15° | 910.0 | 837.7 | 706.5 | 614.2 | 552.7 | 482.1 | 408.4 | 341.4 | 287.0 | 255.0 | 235.6 |
| 17.5° | 937.6 | 853.4 | 704.5 | 583.5 | 497.6 | 409.8 | 328.3 | 249.2 | 198.0 | 173.7 | 161.2 |
| 20° | 1007.6 | 903.5 | 703.7 | 545.8 | 432.0 | 324.0 | 222.4 | 163.9 | 132.9 | 119.3 | 113.5 |
| 22.5° | 1106.5 | 967.5 | 710.0 | 508.6 | 363.8 | 231.5 | 153.5 | 120.4 | 104.5 | 97.2 | 93.9 |
| 25° | 1233.9 | 1057.4 | 727.8 | 474.9 | 299.6 | 172.7 | 119.6 | 100.9 | 89.7 | 84.0 | 81.6 |
| 27.5° | 1369.6 | 1160.8 | 755.6 | 445.5 | 247.4 | 137.7 | 102.4 | 86.4 | 78.3 | 74.4 | 72.2 |
| 30° | 1481.5 | 1280.5 | 783.6 | 412.9 | 209.6 | 120.1 | 93.8 | 78.8 | 69.5 | 67.0 | 64.9 |
| 32.5° | 1579.3 | 1371.2 | 803.5 | 383.5 | 184.9 | 106.7 | 84.8 | 70.4 | 64.1 | 59.3 | 57.1 |
| 35° | 1680.7 | 1446.6 | 802.8 | 362.8 | 167.8 | 96.6 | 77.2 | 63.0 | 55.5 | 49.8 | 48.1 |
| 37.5° | 1790.4 | 1531.9 | 789.1 | 345.2 | 160.4 | 88.6 | 73.0 | 59.1 | 51.5 | 45.9 | 43.7 |
| 40° | 1918.8 | 1621.4 | 775.1 | 328.6 | 158.4 | 82.1 | 70.0 | 55.9 | 47.9 | 42.4 | 40.2 |
| 42.5° | 2044.0 | 1702.1 | 762.8 | 316.3 | 149.6 | 82.0 | 67.3 | 53.6 | 45.1 | 39.7 | 37.2 |
| 45° | 2144.0 | 1777.3 | 760.4 | 308.9 | 140.3 | 84.8 | 65.9 | 52.0 | 42.9 | 37.5 | 35.1 |
| 47.5° | 2227.3 | 1858.9 | 775.6 | 303.7 | 131.4 | 77.4 | 69.3 | 50.9 | 40.8 | 35.6 | 32.9 |
| 50° | 2326.2 | 1959.2 | 811.2 | 295.2 | 122.1 | 69.7 | 79.4 | 51.2 | 39.1 | 33.7 | 30.9 |
| 52.5° | 2464.3 | 2097.9 | 863.5 | 280.9 | 109.4 | 62.6 | 78.2 | 51.5 | 37.2 | 31.7 | 28.8 |
| 55° | 2619.1 | 2271.1 | 919.8 | 257.1 | 91.6 | 53.3 | 67.0 | 49.3 | 33.6 | 29.5 | 26.8 |
| 57.5° | 2781.7 | 2428.2 | 953.2 | 228.7 | 72.8 | 46.0 | 53.6 | 44.9 | 29.6 | 26.5 | 24.7 |
| 60° | 2807.2 | 2487.9 | 937.9 | 193.9 | 57.8 | 40.0 | 39.7 | 45.7 | 26.5 | 23.3 | 22.1 |
| 62.5° | 2743.7 | 2412.9 | 864.0 | 162.8 | 48.4 | 35.1 | 32.6 | 39.9 | 24.0 | 20.8 | 19.5 |
| 65° | 2621.6 | 2210.1 | 744.2 | 146.7 | 44.9 | 30.1 | 27.1 | 28.1 | 21.0 | 18.1 | 17.0 |
| 67.5° | 2451.7 | 1939.3 | 611.0 | 137.6 | 44.4 | 25.8 | 23.2 | 21.3 | 18.1 | 15.8 | 14.8 |
| 70° | 2104.3 | 1615.6 | 487.5 | 132.5 | 43.2 | 21.7 | 19.5 | 17.3 | 15.1 | 13.4 | 12.6 |
| 72.5° | 1548.8 | 1144.8 | 379.2 | 127.0 | 43.5 | 17.3 | 17.0 | 14.3 | 12.1 | 10.4 | 10.1 |
| 75° | 894.9 | 654.1 | 248.7 | 102.9 | 41.4 | 13.4 | 14.2 | 10.1 | 8.5 | 7.2 | 7.2 |
| 77.5° | 476.9 | 398.9 | 94.7 | 42.9 | 15.1 | 8.5 | 8.0 | 6.0 | 5.4 | 4.4 | 4.3 |
| 80° | 207.9 | 175.6 | 28.5 | 12.0 | 8.4 | 4.6 | 3.0 | 2.7 | 2.4 | 1.9 | 1.7 |
| 82.5° | 73.6 | 63.5 | 9.3 | 5.8 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 16.7 | 12.0 | 0.0 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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 CATALOG NUMBER: GPC-SA1B-722-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1116.2 | 1116.2 | 1116.2 | 1116.2 | 1116.2 | 1116.2 | 1116.2 | 1116.2 | 1116.2 | 1116.2 | 1116.2 |
| 2.5° | 946.7 | 943.3 | 922.8 | 923.6 | 927.2 | 932.4 | 920.1 | 925.8 | 941.1 | 955.7 | 961.2 |
| 5° | 732.1 | 732.9 | 720.4 | 728.1 | 735.1 | 739.8 | 719.9 | 720.3 | 732.4 | 748.9 | 757.6 |
| 7.5° | 515.8 | 514.6 | 515.2 | 533.6 | 546.7 | 537.3 | 544.7 | 519.0 | 520.6 | 532.4 | 523.6 |
| 10° | 383.5 | 366.1 | 356.3 | 370.2 | 384.6 | 379.4 | 366.6 | 358.2 | 364.1 | 377.1 | 376.2 |
| 12.5° | 301.3 | 276.4 | 261.8 | 251.9 | 263.7 | 253.9 | 253.6 | 246.3 | 238.5 | 239.9 | 260.8 |
| 15° | 226.6 | 208.5 | 191.2 | 175.3 | 174.9 | 171.6 | 154.8 | 135.9 | 134.3 | 135.2 | 146.1 |
| 17.5° | 155.9 | 149.7 | 142.6 | 128.9 | 125.3 | 111.4 | 95.0 | 87.5 | 83.7 | 85.4 | 89.0 |
| 20° | 109.5 | 107.2 | 108.0 | 100.6 | 95.4 | 82.1 | 72.5 | 69.5 | 68.9 | 70.6 | 72.3 |
| 22.5° | 90.8 | 86.5 | 86.1 | 82.7 | 77.5 | 67.9 | 62.7 | 61.0 | 60.2 | 61.8 | 63.0 |
| 25° | 79.4 | 75.2 | 73.4 | 71.4 | 65.9 | 59.3 | 56.1 | 54.5 | 53.7 | 54.7 | 55.5 |
| 27.5° | 70.0 | 66.0 | 64.5 | 63.0 | 57.7 | 53.0 | 50.4 | 49.0 | 48.4 | 48.7 | 49.5 |
| 30° | 62.9 | 59.4 | 57.4 | 55.6 | 51.1 | 47.8 | 45.5 | 44.1 | 43.5 | 43.5 | 44.3 |
| 32.5° | 55.5 | 53.6 | 51.7 | 49.5 | 45.2 | 43.0 | 40.8 | 39.2 | 38.6 | 38.8 | 39.4 |
| 35° | 46.2 | 45.5 | 46.0 | 44.0 | 40.3 | 38.5 | 36.2 | 34.5 | 34.0 | 34.2 | 34.8 |
| 37.5° | 41.0 | 38.1 | 39.9 | 38.8 | 36.7 | 34.2 | 31.4 | 29.8 | 29.0 | 29.5 | 29.8 |
| 40° | 37.7 | 34.2 | 32.9 | 34.0 | 33.7 | 29.6 | 27.1 | 25.5 | 24.9 | 25.1 | 25.4 |
| 42.5° | 34.8 | 30.7 | 27.9 | 27.7 | 29.6 | 25.8 | 23.2 | 21.7 | 21.0 | 21.0 | 21.3 |
| 45° | 32.2 | 27.7 | 24.3 | 21.6 | 24.9 | 21.9 | 19.4 | 18.1 | 17.2 | 17.2 | 17.3 |
| 47.5° | 30.1 | 25.2 | 21.1 | 17.7 | 18.8 | 18.0 | 15.9 | 14.7 | 13.7 | 13.7 | 13.9 |
| 50° | 28.2 | 22.7 | 18.3 | 14.8 | 14.0 | 14.8 | 12.9 | 11.5 | 10.9 | 10.7 | 11.0 |
| 52.5° | 26.2 | 20.2 | 15.6 | 12.6 | 11.0 | 11.2 | 10.1 | 9.1 | 8.4 | 8.4 | 8.7 |
| 55° | 24.1 | 18.1 | 13.6 | 10.7 | 9.1 | 8.4 | 8.0 | 7.4 | 6.8 | 6.8 | 7.1 |
| 57.5° | 22.1 | 15.9 | 11.5 | 8.8 | 7.2 | 6.6 | 6.6 | 6.1 | 5.7 | 5.7 | 6.0 |
| 60° | 20.2 | 13.7 | 9.5 | 7.2 | 5.7 | 5.5 | 5.7 | 5.2 | 4.9 | 4.9 | 5.2 |
| 62.5° | 18.0 | 11.7 | 7.7 | 6.0 | 4.6 | 4.4 | 4.9 | 4.6 | 4.3 | 4.3 | 4.6 |
| 65° | 15.3 | 9.9 | 6.1 | 4.6 | 3.5 | 3.5 | 4.1 | 3.8 | 3.5 | 3.5 | 3.8 |
| 67.5° | 12.9 | 8.4 | 4.7 | 3.3 | 2.5 | 2.7 | 3.5 | 3.2 | 3.0 | 3.0 | 3.3 |
| 70° | 10.7 | 6.5 | 3.3 | 2.0 | 1.4 | 2.0 | 2.7 | 2.7 | 2.7 | 2.7 | 3.0 |
| 72.5° | 8.0 | 4.4 | 1.9 | 0.8 | 0.6 | 1.4 | 2.2 | 2.5 | 2.4 | 2.4 | 2.8 |
| 75° | 5.2 | 2.5 | 0.6 | 0.0 | 0.0 | 0.8 | 1.7 | 2.0 | 2.0 | 1.9 | 2.4 |
| 77.5° | 3.0 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.9 | 0.8 | 0.6 | 1.1 |
| 80° | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P385634
 CATALOG NUMBER: GPC-SA1B-722-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1116.2 | 1116.2 | 1116.2 | 1116.2 | 1116.2 | 1116.2 | 1116.2 | 1116.2 | 1116.2 | 1116.2 |
| 2.5° | 983.4 | 1002.0 | 1028.2 | 1055.9 | 1098.7 | 1132.5 | 1165.8 | 1194.3 | 1205.4 | 1209.9 |
| 5° | 778.4 | 805.7 | 844.0 | 893.1 | 970.2 | 1039.6 | 1109.8 | 1180.6 | 1211.3 | 1219.1 |
| 7.5° | 558.5 | 593.4 | 642.1 | 703.7 | 794.0 | 883.8 | 982.0 | 1085.9 | 1133.5 | 1145.5 |
| 10° | 413.4 | 455.9 | 511.7 | 576.7 | 662.9 | 755.2 | 862.3 | 980.9 | 1035.3 | 1051.2 |
| 12.5° | 293.3 | 350.8 | 425.5 | 504.5 | 579.2 | 661.6 | 769.9 | 900.7 | 957.8 | 974.9 |
| 15° | 172.3 | 227.9 | 316.3 | 422.1 | 517.7 | 601.3 | 711.3 | 859.6 | 922.5 | 939.8 |
| 17.5° | 98.8 | 126.6 | 193.4 | 311.3 | 441.1 | 556.8 | 692.8 | 869.8 | 943.9 | 960.0 |
| 20° | 75.5 | 84.3 | 111.4 | 200.5 | 351.6 | 513.2 | 692.8 | 927.8 | 1019.1 | 1042.7 |
| 22.5° | 66.0 | 72.5 | 83.5 | 119.6 | 258.8 | 466.4 | 700.9 | 1011.7 | 1131.0 | 1157.1 |
| 25° | 58.6 | 64.5 | 73.9 | 90.0 | 176.5 | 410.7 | 719.9 | 1114.6 | 1262.7 | 1296.6 |
| 27.5° | 52.5 | 58.0 | 66.5 | 78.8 | 120.7 | 343.6 | 745.6 | 1235.3 | 1408.0 | 1435.1 |
| 30° | 47.0 | 52.2 | 59.9 | 68.6 | 93.1 | 267.5 | 767.5 | 1349.1 | 1522.1 | 1551.3 |
| 32.5° | 41.8 | 46.5 | 53.4 | 59.9 | 76.3 | 197.8 | 769.9 | 1439.2 | 1616.9 | 1645.9 |
| 35° | 36.9 | 41.1 | 47.4 | 52.5 | 63.2 | 156.2 | 733.2 | 1517.4 | 1711.6 | 1749.9 |
| 37.5° | 32.2 | 36.2 | 41.8 | 45.5 | 55.6 | 127.3 | 677.1 | 1604.6 | 1833.1 | 1868.6 |
| 40° | 27.7 | 31.4 | 37.0 | 39.6 | 52.6 | 97.9 | 616.1 | 1696.0 | 1952.2 | 1984.7 |
| 42.5° | 23.6 | 27.1 | 32.6 | 37.5 | 46.2 | 73.1 | 550.2 | 1781.7 | 2059.4 | 2093.5 |
| 45° | 19.7 | 23.3 | 28.8 | 39.7 | 38.3 | 54.7 | 479.7 | 1838.6 | 2144.0 | 2181.1 |
| 47.5° | 15.9 | 20.0 | 27.6 | 37.8 | 30.6 | 40.2 | 424.0 | 1892.5 | 2208.2 | 2244.8 |
| 50° | 12.8 | 16.9 | 31.0 | 33.7 | 25.1 | 30.7 | 400.6 | 1940.7 | 2250.3 | 2285.4 |
| 52.5° | 10.4 | 14.2 | 29.3 | 25.8 | 21.0 | 25.4 | 413.2 | 2018.9 | 2289.2 | 2311.3 |
| 55° | 8.7 | 11.2 | 17.7 | 18.0 | 17.8 | 21.6 | 428.8 | 2131.1 | 2389.9 | 2400.3 |
| 57.5° | 7.6 | 9.0 | 12.3 | 13.9 | 15.0 | 19.2 | 429.2 | 2292.2 | 2545.8 | 2552.2 |
| 60° | 6.5 | 7.9 | 10.2 | 11.2 | 12.9 | 17.2 | 413.6 | 2348.5 | 2607.1 | 2628.5 |
| 62.5° | 5.7 | 6.9 | 8.5 | 9.3 | 10.9 | 15.4 | 377.0 | 2267.0 | 2522.9 | 2559.3 |
| 65° | 5.0 | 6.3 | 7.1 | 7.9 | 9.6 | 13.9 | 316.8 | 2104.0 | 2383.3 | 2421.3 |
| 67.5° | 4.4 | 5.5 | 6.3 | 7.1 | 8.7 | 12.3 | 233.3 | 1914.7 | 2223.0 | 2254.5 |
| 70° | 3.9 | 4.9 | 5.7 | 6.3 | 7.6 | 10.4 | 141.5 | 1624.7 | 2001.4 | 2014.5 |
| 72.5° | 3.8 | 4.4 | 5.2 | 5.7 | 6.6 | 9.1 | 71.7 | 1194.0 | 1600.0 | 1621.3 |
| 75° | 3.3 | 3.9 | 4.7 | 5.0 | 5.8 | 7.9 | 29.2 | 784.2 | 1159.5 | 1193.7 |
| 77.5° | 2.7 | 3.6 | 4.3 | 4.6 | 5.0 | 6.5 | 14.8 | 501.2 | 813.7 | 835.8 |
| 80° | 0.9 | 2.7 | 3.6 | 3.8 | 4.3 | 4.7 | 9.8 | 274.4 | 472.0 | 481.5 |
| 82.5° | 0.0 | 1.7 | 2.8 | 2.7 | 3.0 | 3.6 | 6.3 | 130.5 | 311.6 | 315.1 |
| 85° | 0.0 | 0.8 | 2.2 | 1.7 | 1.3 | 2.5 | 2.2 | 28.5 | 163.4 | 170.2 |
| 87.5° | 0.0 | 0.0 | 0.2 | 0.8 | 0.6 | 0.9 | 0.3 | 0.2 | 14.8 | 18.8 |
| 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

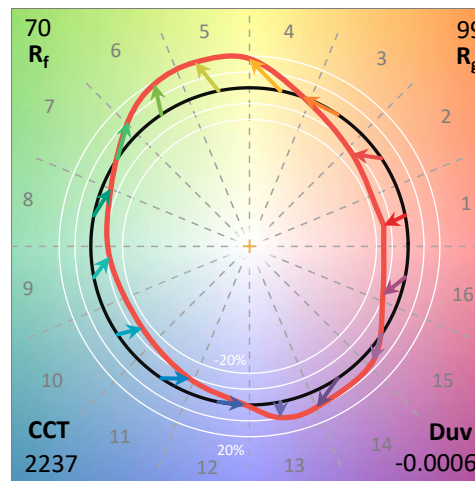
Test Method: LM-79-2008 Report
 Number: SP1-1908-441-10-R4
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/28/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: MCGRAW-EDISON
 Catalog Number: **SA1C-722-U-5WQ**
 Description: MCGRAW 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

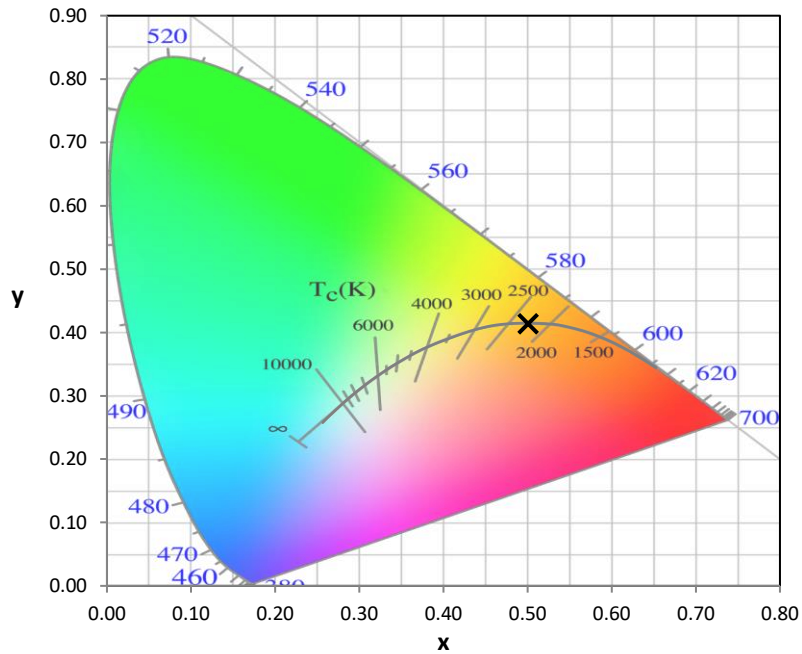
Stabilization Time: 71M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 24.7/41%
 Sphere Temperature (°C): 25.6

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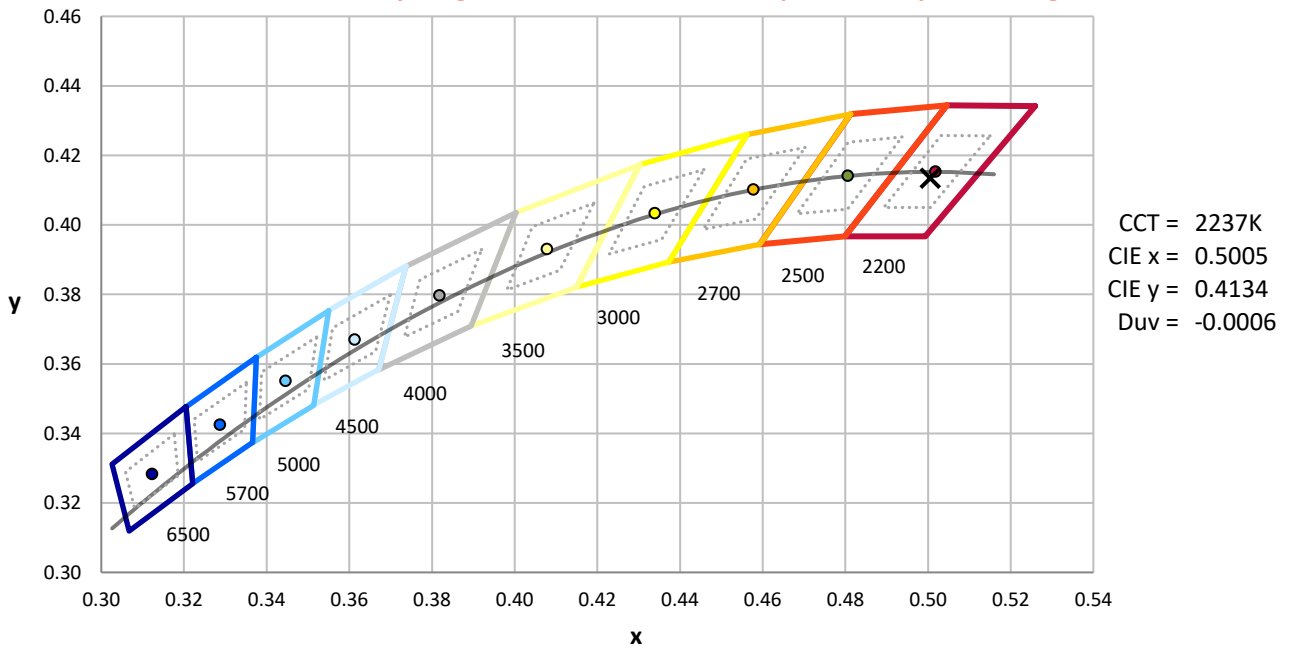
| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/28/2019 | 12/28/2019 |
| Power Meter | IN0071 | 12/5/2018 | 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



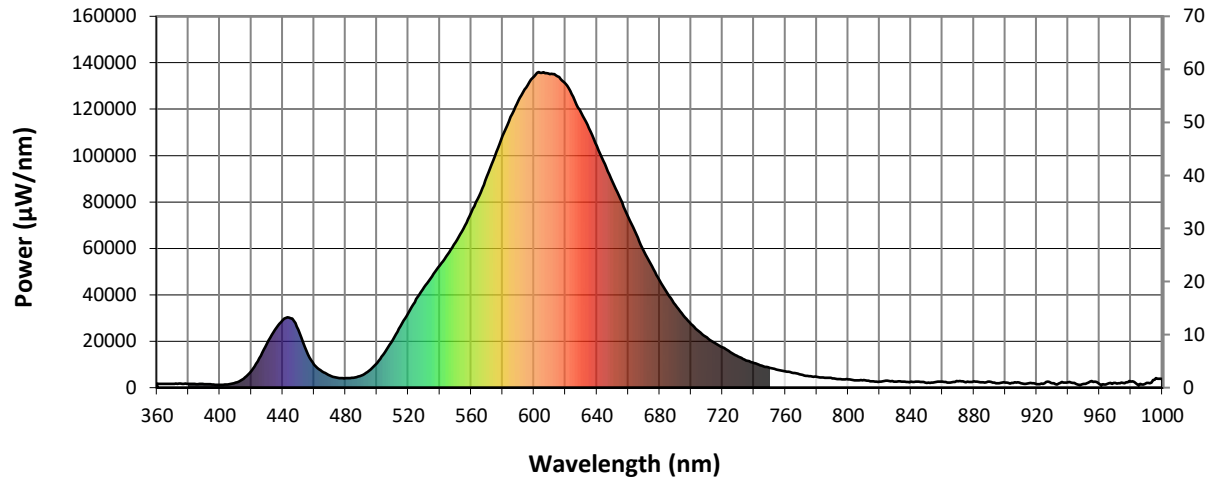
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 4-step quadrangle

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

Photopic Flux vs. Wavelength

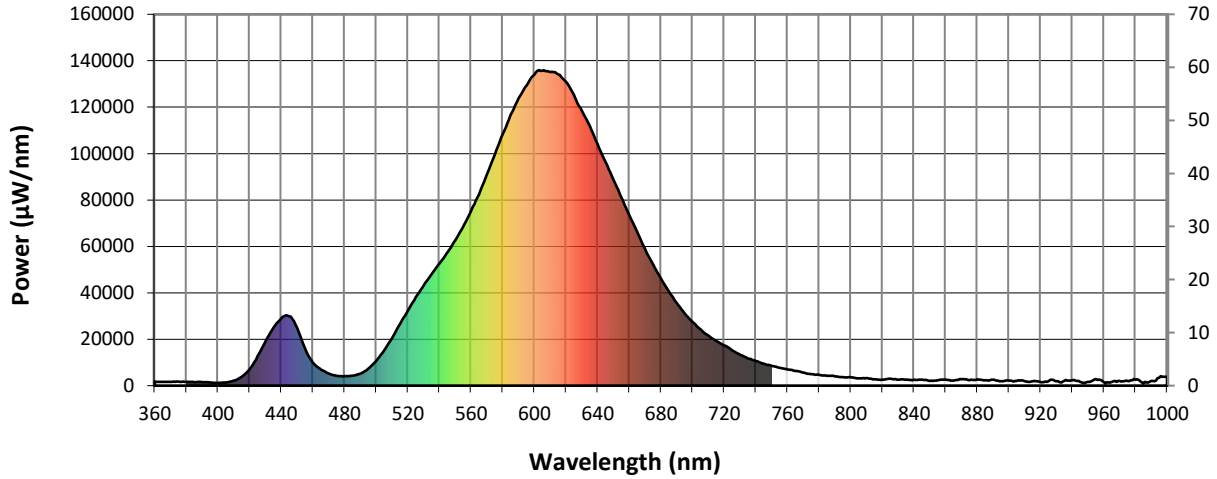


#####

| 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



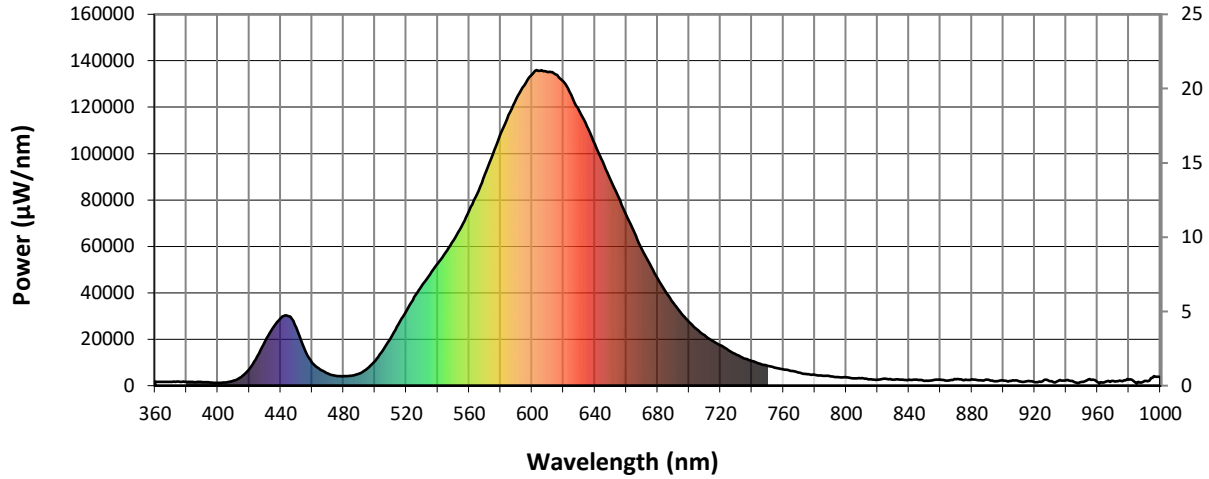
Scotopic Lumens: 4696.9

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

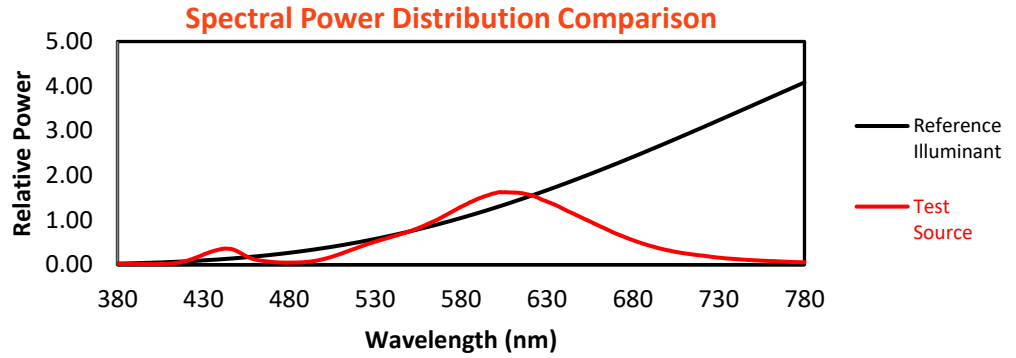
| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 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 |
| 485 | 4298 | NR | 615 | 134180 | NR | 745 | 9451 | NR | 875 | 2317 | NR | | | |

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

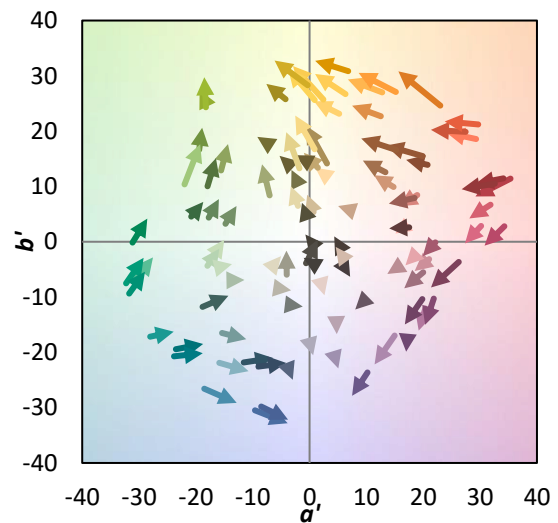
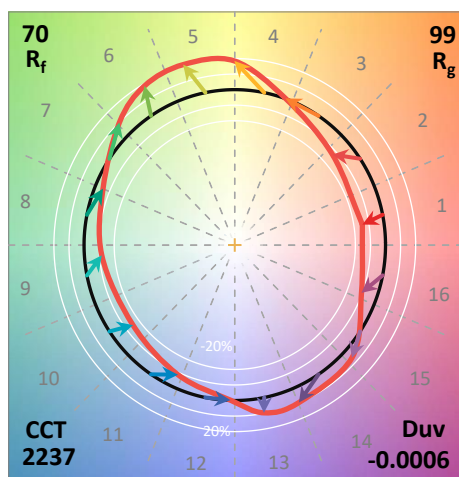
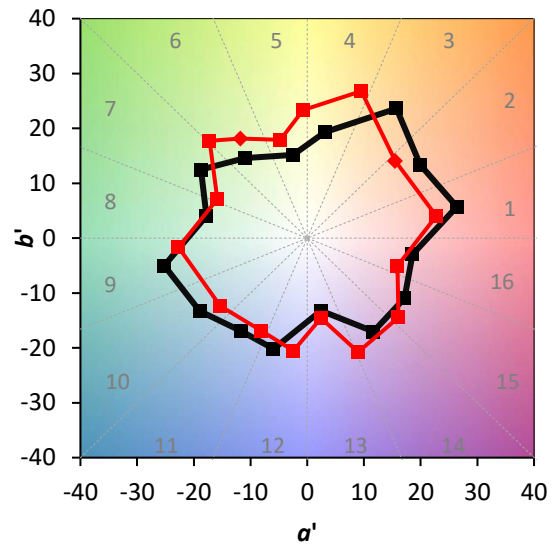
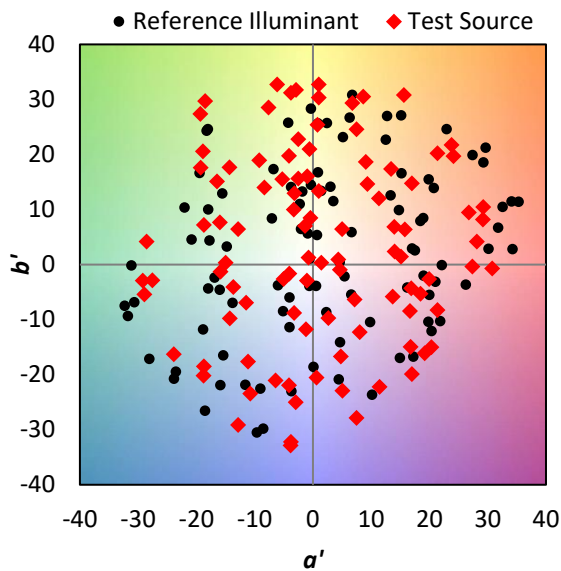
TM-30-18

Summary

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



Color Vector Graphics

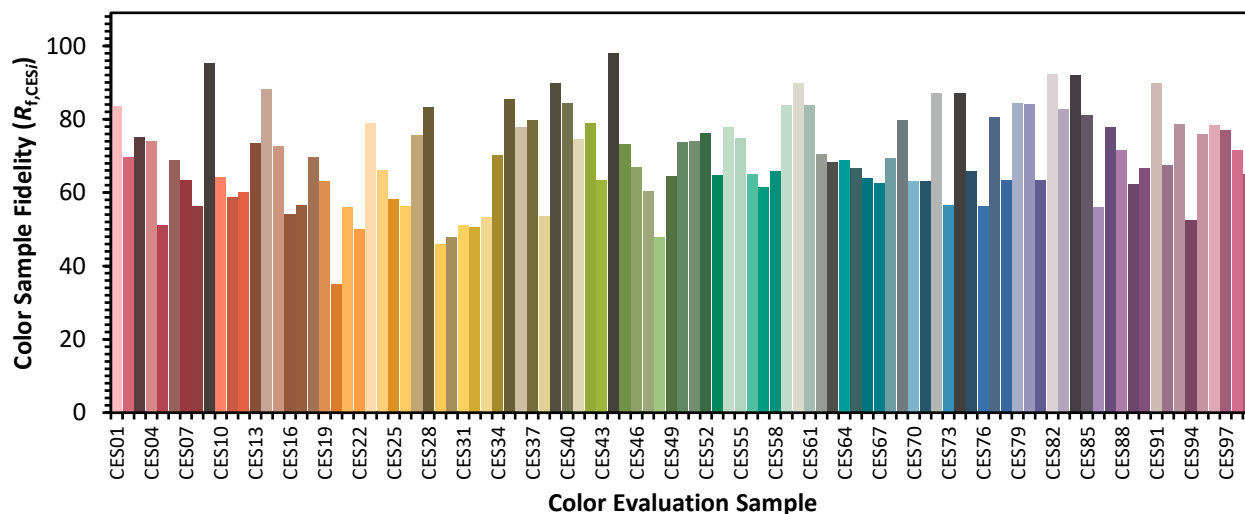


REPORT NUMBER: SP1-1908-441-10-R4

TM-30-18

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

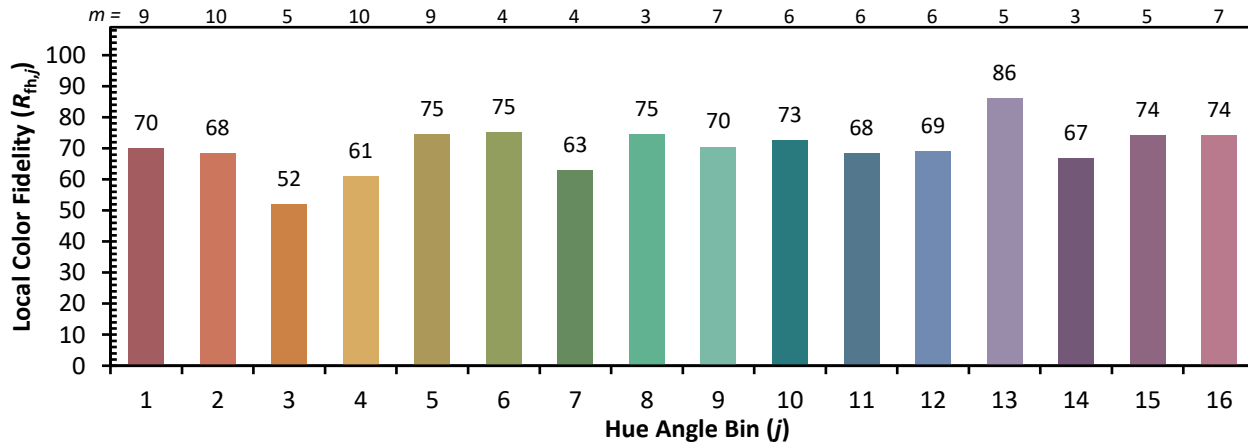
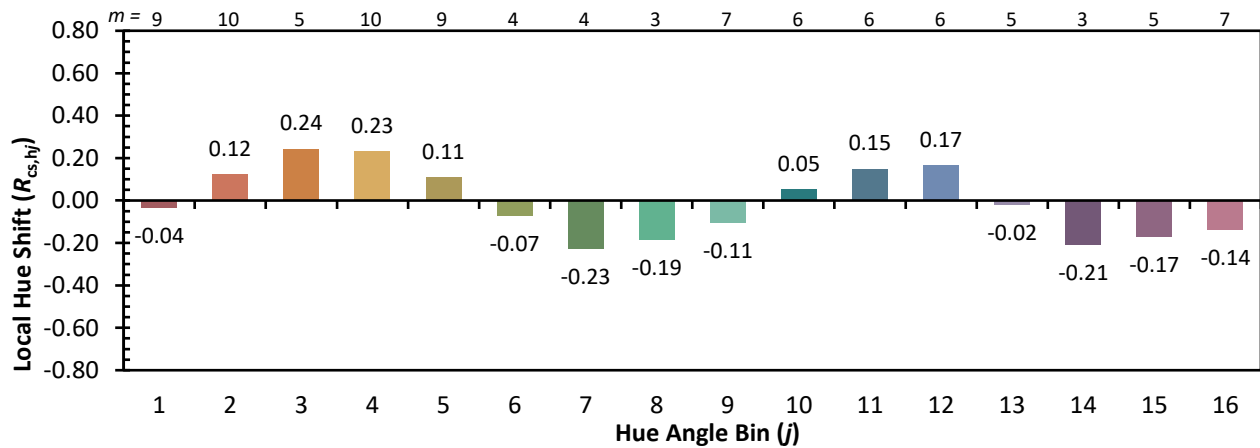
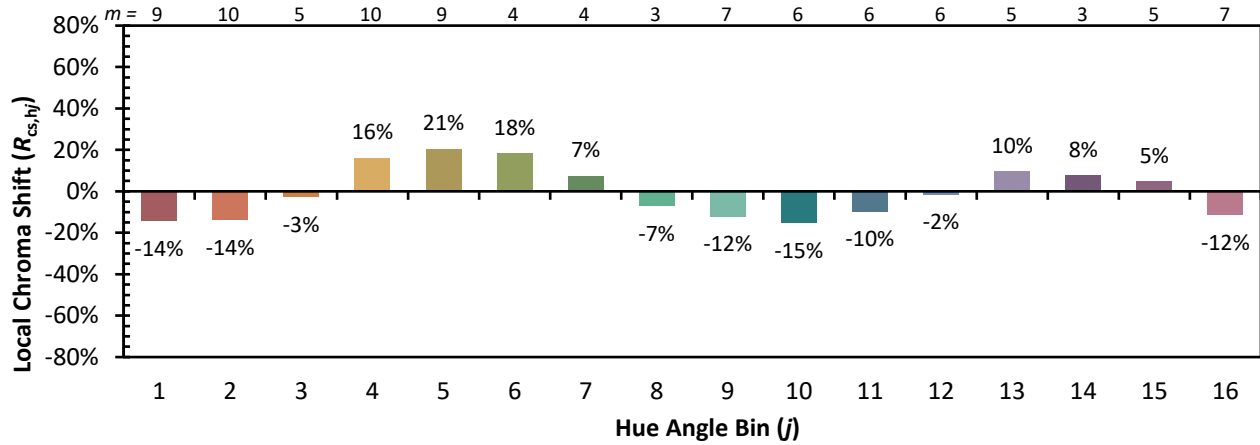
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| CES02 = 65 | CES27 = 76 | CES52 = 76 | CES77 = 81 |
| CES03 = 32 | CES28 = 83 | CES53 = 65 | CES78 = 63 |
| CES04 = 72 | CES29 = 46 | CES54 = 78 | CES79 = 84 |
| CES05 = 52 | CES30 = 48 | CES55 = 75 | CES80 = 84 |
| CES06 = 52 | CES31 = 51 | CES56 = 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 |
| CES12 = 68 | CES37 = 80 | CES62 = 70 | CES87 = 78 |
| 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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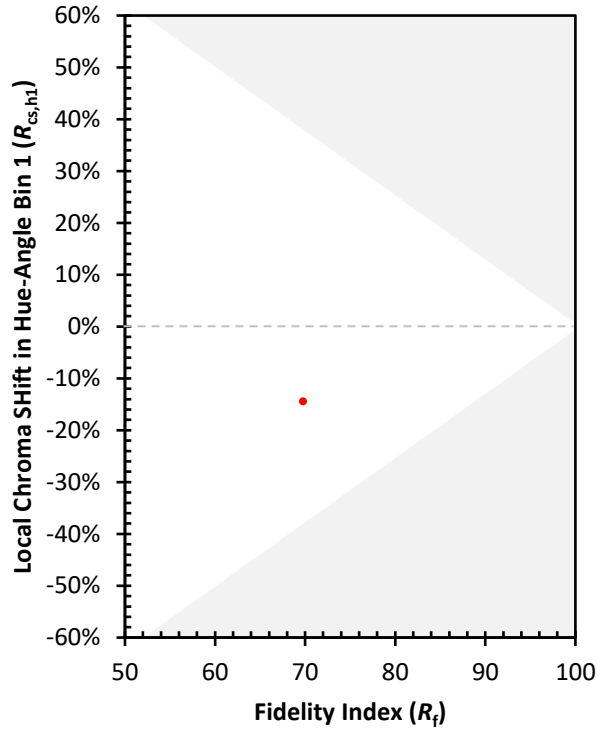
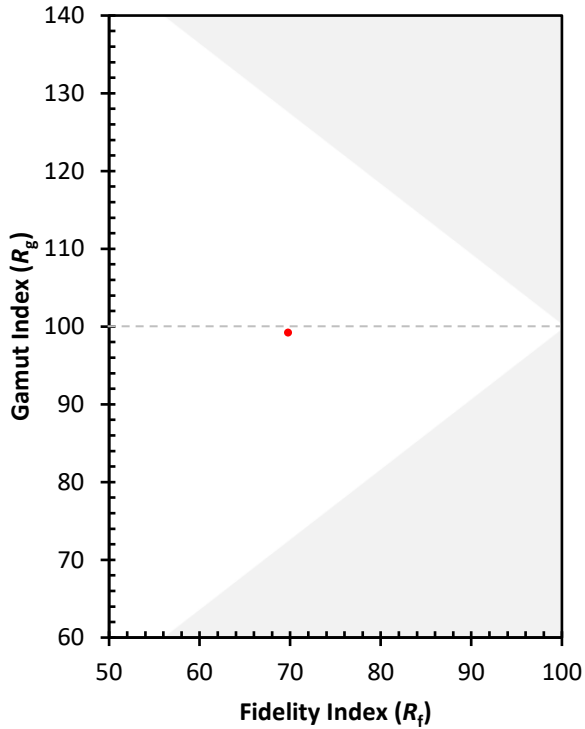
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)