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

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Scaled data based on original data using

LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P1200297

Luminaire Tested: GPC-SB2C-760-U-T3

Issue Date: 10/30/2025

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

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-2024 |
| Report Number: | P1200297 |
| | TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5) |
| Test Lab: | INNOVATION CENTER |
| Issue Date: | 3/15/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GPC-SB2C-760-U-T3 |
| Description: | GALLEON PEDESTRIAN LUMINAIRE |
| | (2) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS |
| Light Source: | - |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 15853 lumens |
| Efficiency: | N/A |
| Efficacy: | 157.1 lumens/watt |
| Luminous Opening: | Rectangular (W 1' x L: 0.5' x H: 0') |
| IES Classification: | Type III - Short |
| BUG Rating: | B2 - U0 - G2 |

| | |
|---|---|
| Input Watts (W): | 100.9 |
| Input Voltage (V): | 120.0 |
| Input Current (Ain): | 0.857 |
| Voltage Rise (V): | NR |
| Power Factor: | 0.994 |
| Total Harmonic Distortion (THDi): | 9.472 |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

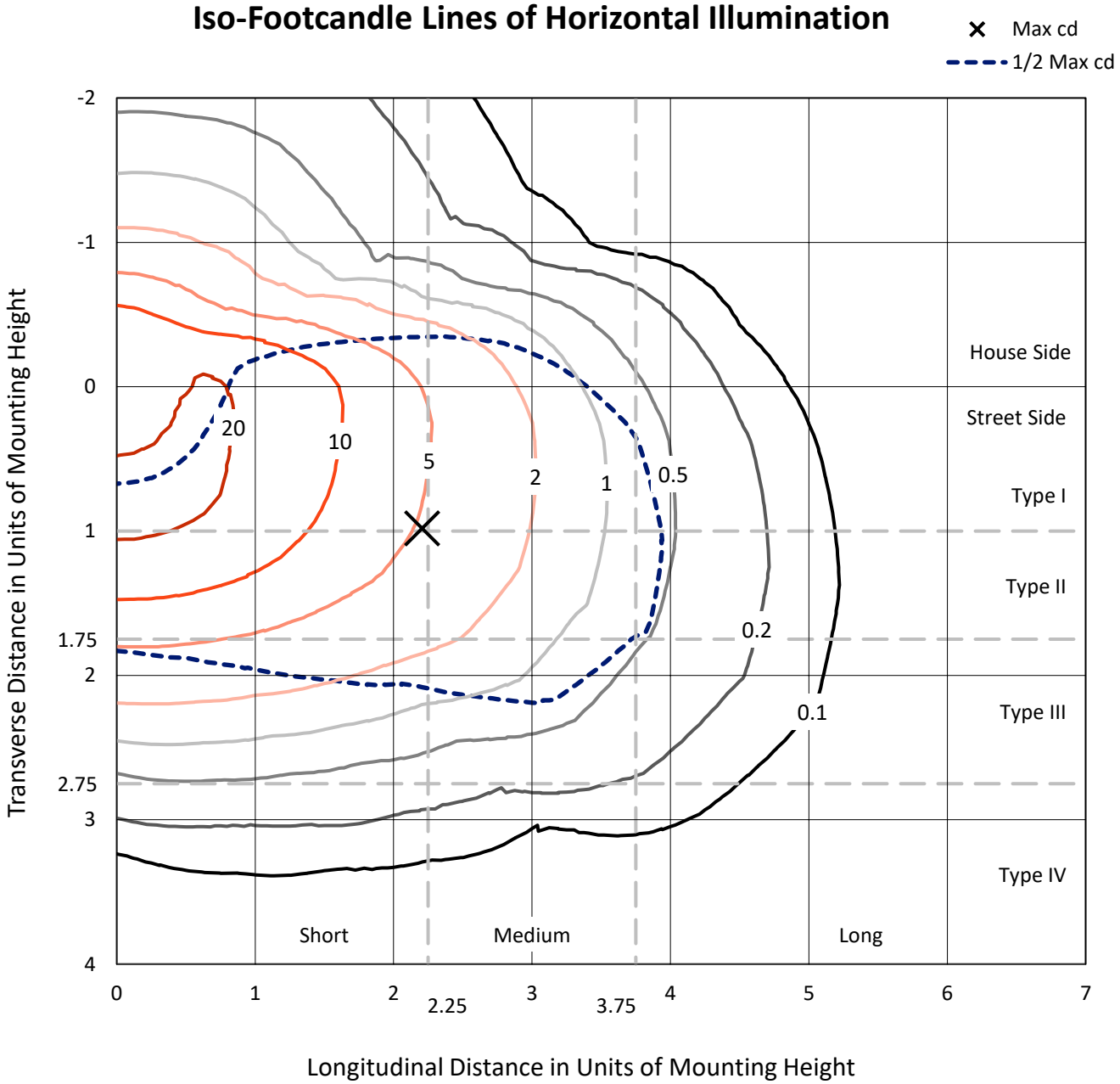


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REPORT NUMBER: P1200297
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## Iso-Footcandle Lines of Horizontal Illumination



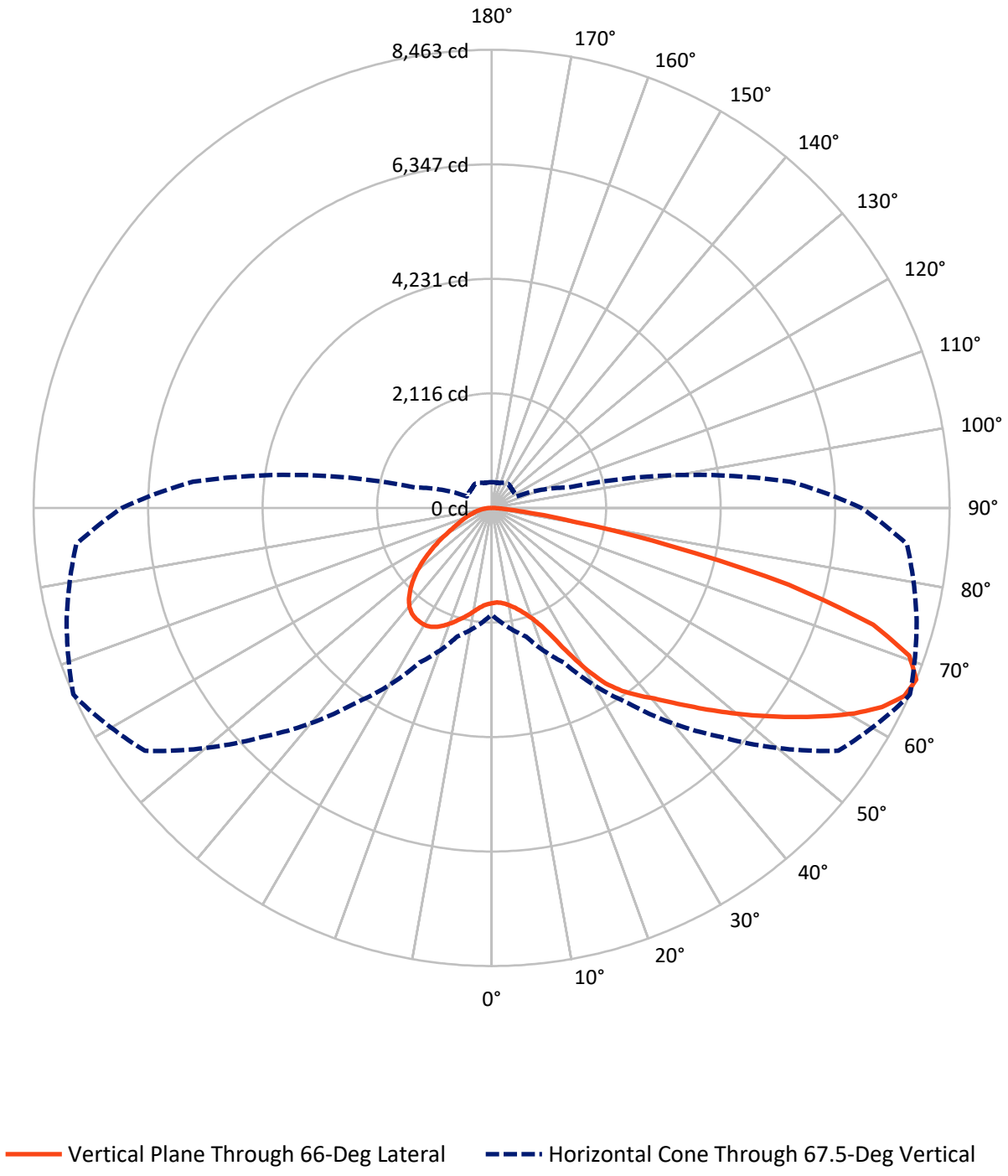

Based on 10 foot mounting height. Maximum calculated value = 24.9 fc
Type III - Short - N/A

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## Luminous Intensity Polar Plot



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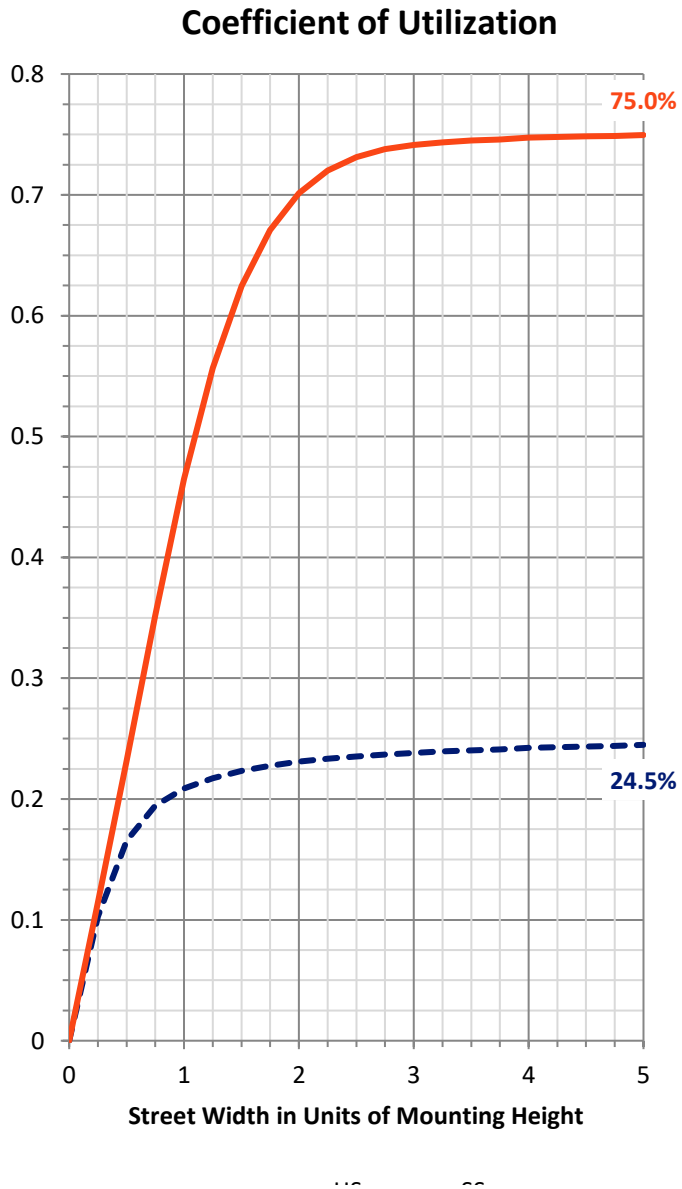
REPORT NUMBER: P1200297
CATALOG NUMBER: GPC-SB2C-760-U-T3

**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 3941.8 | 0.0 | 3941.8 |
| | % Fixture | 24.9 | 0.0 | 24.9 |
| **Street Side** | Lumens | 11911.2 | 0.0 | 11911.2 |
| | % Fixture | 75.1 | 0.0 | 75.1 |
| **Total** | Lumens | 15853.0 | 0.0 | 15853.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 174.3 | 1.1 |
| 10°-20° | 576.0 | 3.6 |
| 20°-30° | 1110.1 | 7.0 |
| 30°-40° | 1946.5 | 12.3 |
| 40°-50° | 2893.8 | 18.3 |
| 50°-60° | 3668.1 | 23.1 |
| 60°-70° | 3589.2 | 22.6 |
| 70°-80° | 1712.1 | 10.8 |
| 80°-90° | 183.0 | 1.2 |
| 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° | 15853.0 | 100.0 |
| 0°-180° | 15853.0 | 100.0 |



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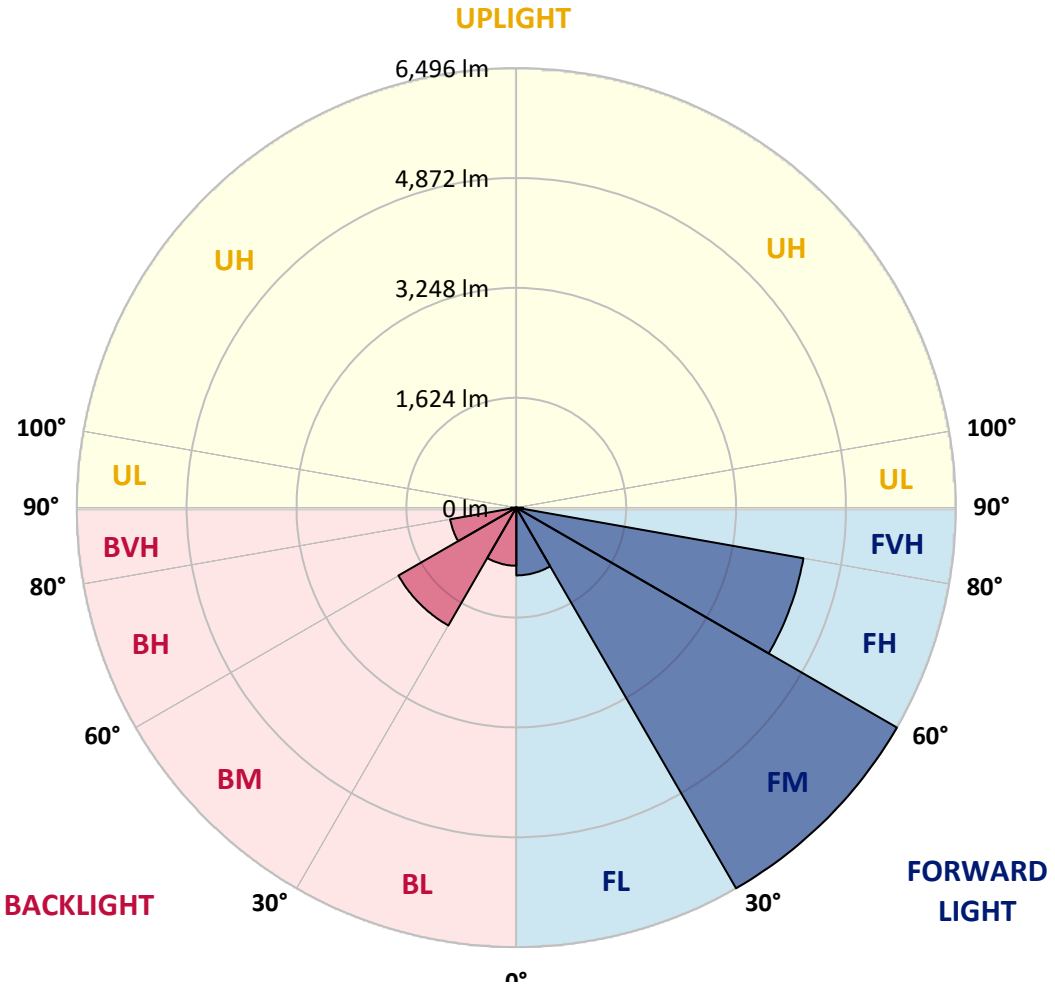
Scaled Data Report

REPORT NUMBER: P1200297
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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°) | 1001.8 | 6.3 | | | |
| FM | (30°-60°) | 6496.4 | 41.0 | | | |
| FH | (60°-80°) | 4309.3 | 27.2 | | | G2/5000 |
| FVH | (80°-90°) | 103.7 | 0.7 | | | G2/225 |
| BL | (0°-30°) | 858.7 | 5.4 | B2/1000 | | |
| BM | (30°-60°) | 2011.9 | 12.7 | B2/2500 | | |
| BH | (60°-80°) | 992.0 | 6.3 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 79.2 | 0.5 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B2-U0-G2**
Type III Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1758.3 | 1758.3 | 1758.3 | 1758.3 | 1758.3 | 1758.3 | 1758.3 | 1758.3 | *1758.3* | 1758.3 | 1758.3 |
| 2.5° | 1740.0 | 1750.0 | 1747.5 | 1743.3 | 1742.5 | 1744.1 | 1746.6 | 1749.1 | *1748.3* | 1752.5 | 1759.1 |
| 5° | 1735.0 | 1745.0 | 1744.1 | 1744.1 | 1747.5 | 1754.1 | 1758.3 | 1762.5 | *1758.3* | 1763.3 | 1772.5 |
| 7.5° | 1738.3 | 1745.8 | 1749.1 | 1752.5 | 1760.8 | 1773.3 | 1783.3 | 1792.5 | *1787.5* | 1793.3 | 1805.0 |
| 10° | 1780.8 | 1786.6 | 1790.0 | 1790.0 | 1795.8 | 1809.9 | 1819.9 | 1836.6 | *1832.4* | 1841.6 | 1856.6 |
| 12.5° | 1858.3 | 1864.1 | 1864.1 | 1860.8 | 1864.9 | 1874.1 | 1877.4 | 1895.7 | *1888.2* | 1903.2 | 1918.2 |
| 15° | 1953.2 | 1964.9 | 1955.7 | 1949.9 | 1951.5 | 1960.7 | 1959.9 | 1974.0 | *1966.5* | 1979.0 | 1992.4 |
| 17.5° | 2058.2 | 2073.2 | 2058.2 | 2057.3 | 2054.0 | 2064.0 | 2064.8 | 2077.3 | *2064.0* | 2073.2 | 2082.3 |
| 20° | 2182.3 | 2203.1 | 2190.6 | 2194.8 | 2187.3 | 2191.4 | 2195.6 | 2213.9 | *2193.1* | 2199.8 | 2197.3 |
| 22.5° | 2357.2 | 2382.2 | 2368.8 | 2384.7 | 2379.7 | 2376.3 | 2375.5 | 2408.0 | *2375.5* | 2378.0 | 2353.8 |
| 25° | 2612.1 | 2642.0 | 2618.7 | 2640.4 | 2640.4 | 2651.2 | 2663.7 | 2705.3 | *2651.2* | 2635.4 | 2572.9 |
| 27.5° | 2988.5 | 3018.5 | 2972.7 | 2986.0 | 2981.9 | 3008.5 | 2995.2 | 3098.5 | *3040.2* | 3014.4 | 2888.6 |
| 30° | 3441.7 | 3495.0 | 3408.3 | 3405.0 | 3400.8 | 3443.3 | 3462.5 | 3530.8 | *3471.6* | 3445.8 | 3294.2 |
| 32.5° | 3931.4 | 3987.2 | 3883.9 | 3853.9 | 3838.1 | 3863.9 | 3848.1 | 3903.1 | *3862.3* | 3822.3 | 3634.9 |
| 35° | 4449.5 | 4504.5 | 4406.2 | 4347.9 | 4284.6 | 4230.4 | 4173.8 | 4188.0 | *4149.6* | 4088.8 | 3894.8 |
| 37.5° | 4939.3 | 5040.0 | 4935.9 | 4873.5 | 4756.8 | 4651.1 | 4492.8 | 4427.0 | *4391.2* | 4335.4 | 4139.6 |
| 40° | 5438.2 | 5495.6 | 5416.5 | 5363.2 | 5236.6 | 5070.9 | 4817.6 | 4678.5 | *4630.2* | 4576.1 | 4410.3 |
| 42.5° | 5805.5 | 5860.5 | 5818.0 | 5781.3 | 5682.2 | 5489.8 | 5162.5 | 4988.4 | *4918.4* | 4857.6 | 4716.9 |
| 45° | 6097.0 | 6137.8 | 6111.2 | 6124.5 | 6082.0 | 5895.5 | 5519.8 | 5320.7 | *5248.3* | 5174.1 | 5063.4 |
| 47.5° | 6214.5 | 6257.8 | 6300.3 | 6379.4 | 6451.8 | 6314.4 | 5903.8 | 5680.6 | *5603.9* | 5528.1 | 5419.0 |
| 50° | 6201.1 | 6245.3 | 6368.6 | 6536.8 | 6761.7 | 6715.9 | 6308.6 | 6063.7 | *5992.9* | 5906.3 | 5805.5 |
| 52.5° | 6094.5 | 6144.5 | 6302.8 | 6582.6 | 6940.8 | 7016.6 | 6720.9 | 6459.3 | *6392.7* | 6289.4 | 6188.6 |
| 55° | 5814.7 | 5844.6 | 6082.0 | 6478.5 | 6983.3 | 7226.5 | 7124.9 | 6880.8 | *6814.2* | 6670.1 | 6560.1 |
| 57.5° | 5295.7 | 5339.1 | 5684.7 | 6197.8 | 6876.6 | 7368.9 | 7479.7 | 7323.9 | *7259.8* | 7052.4 | 6937.4 |
| 60° | 4618.6 | 4687.7 | 5083.3 | 5726.4 | 6605.1 | 7368.1 | 7802.0 | 7759.5 | *7706.2* | 7428.9 | 7308.9 |
| 62.5° | 3852.3 | 3932.2 | 4312.9 | 5060.0 | 6130.3 | 7159.0 | 8003.6 | 8124.4 | *8096.9* | 7776.2 | 7622.9 |
| 65° | 2958.6 | 3013.5 | 3392.5 | 4197.9 | 5391.5 | 6710.1 | 8026.9 | 8373.4 | *8378.4* | 8040.2 | 7787.0 |
| 67.5° | *1969.9* | *2128.1* | *2457.1* | *3150.1* | *4402.0* | *5976.2* | *7822.0* | *8414.2* | *8462.5* | *8131.0* | *7704.6* |
| 70° | 961.2 | 1169.4 | 1491.8 | 2047.3 | 3150.1 | 4851.0 | 7286.4 | 8079.4 | *8186.8* | 7866.2 | 7213.1 |
| 72.5° | 399.0 | 466.4 | 642.2 | 1010.3 | 1808.3 | 3273.4 | 6210.3 | 7171.5 | *7370.6* | 6969.9 | 6064.5 |
| 75° | 269.0 | 291.5 | 367.3 | 518.1 | 823.8 | 1614.2 | 4478.6 | 5347.4 | *5668.1* | 5264.1 | 4302.9 |
| 77.5° | 207.4 | 221.6 | 267.4 | 362.3 | 489.8 | 610.5 | 2397.2 | 3222.6 | *3388.3* | 3136.8 | 2238.9 |
| 80° | 163.3 | 174.1 | 199.9 | 264.0 | 347.3 | 326.5 | 817.1 | 1460.1 | *1555.9* | 1305.2 | 719.6 |
| 82.5° | 141.6 | 145.8 | 143.3 | 179.1 | 230.7 | 190.7 | 268.2 | 538.9 | *594.7* | 431.5 | 234.9 |
| 85° | 102.4 | 114.1 | 119.1 | 110.8 | 122.4 | 96.6 | 109.9 | 190.7 | *209.9* | 187.4 | 132.4 |
| 87.5° | 41.6 | 61.6 | 75.8 | 71.6 | 45.0 | 27.5 | 34.1 | 55.8 | *64.1* | 70.0 | 43.3 |
| 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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Scaled Data Report

REPORT NUMBER: P1200297
CATALOG NUMBER: GPC-SB2C-760-U-T3

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1758.3 | 1758.3 | 1758.3 | 1758.3 | 1758.3 | 1758.3 | 1758.3 | 1758.3 | 1758.3 | 1758.3 | 1758.3 |
| 2.5° | 1760.0 | 1765.8 | 1770.0 | 1775.0 | 1778.3 | 1783.3 | 1793.3 | 1799.1 | 1800.0 | 1804.1 | 1803.3 |
| 5° | 1775.8 | 1784.1 | 1793.3 | 1806.6 | 1821.6 | 1834.1 | 1853.3 | 1866.6 | 1871.6 | 1875.7 | 1874.9 |
| 7.5° | 1809.9 | 1821.6 | 1838.3 | 1861.6 | 1883.2 | 1899.9 | 1923.2 | 1939.1 | 1954.9 | 1960.7 | 1961.5 |
| 10° | 1860.8 | 1877.4 | 1901.6 | 1933.2 | 1956.5 | 1978.2 | 2002.4 | 2015.7 | 2031.5 | 2038.2 | 2041.5 |
| 12.5° | 1924.1 | 1941.6 | 1973.2 | 2017.3 | 2039.0 | 2054.0 | 2062.3 | 2059.0 | 2062.3 | 2068.2 | 2069.8 |
| 15° | 1996.5 | 2015.7 | 2051.5 | 2099.0 | 2114.0 | 2100.6 | 2082.3 | 2065.7 | 2063.2 | 2064.8 | 2070.7 |
| 17.5° | 2082.3 | 2096.5 | 2138.1 | 2178.1 | 2167.3 | 2112.3 | 2072.3 | 2045.7 | 2032.3 | 2028.2 | 2034.0 |
| 20° | 2202.3 | 2202.3 | 2236.4 | 2261.4 | 2188.9 | 2095.6 | 2033.2 | 1989.9 | 1962.4 | 1950.7 | 1948.2 |
| 22.5° | 2348.0 | 2334.7 | 2356.3 | 2338.9 | 2184.8 | 2049.0 | 1962.4 | 1887.4 | 1845.8 | 1829.1 | 1826.6 |
| 25° | 2532.9 | 2517.1 | 2511.3 | 2403.0 | 2154.8 | 1974.9 | 1834.1 | 1743.3 | 1706.7 | 1697.5 | 1699.2 |
| 27.5° | 2812.0 | 2772.0 | 2696.2 | 2438.0 | 2099.8 | 1858.3 | 1684.2 | 1600.1 | 1579.2 | 1580.1 | 1582.6 |
| 30° | 3183.4 | 3103.5 | 2917.7 | 2443.8 | 2009.9 | 1693.3 | 1530.9 | 1470.9 | 1461.0 | 1465.1 | 1479.3 |
| 32.5° | 3527.4 | 3451.6 | 3144.3 | 2417.2 | 1871.6 | 1531.8 | 1393.5 | 1353.5 | 1338.5 | 1343.5 | 1350.2 |
| 35° | 3797.3 | 3776.5 | 3354.2 | 2379.7 | 1701.7 | 1380.2 | 1270.2 | 1236.1 | 1206.9 | 1200.2 | 1205.2 |
| 37.5° | 4052.2 | 4043.9 | 3511.6 | 2327.2 | 1533.4 | 1272.7 | 1171.1 | 1126.1 | 1083.6 | 1060.3 | 1061.1 |
| 40° | 4332.0 | 4323.7 | 3614.9 | 2246.4 | 1384.3 | 1179.4 | 1082.0 | 1022.8 | 970.4 | 927.9 | 932.0 |
| 42.5° | 4646.9 | 4597.8 | 3664.0 | 2130.6 | 1257.7 | 1100.3 | 1009.5 | 929.5 | 860.4 | 821.3 | 823.8 |
| 45° | 4990.9 | 4880.1 | 3663.2 | 1983.2 | 1151.1 | 1027.8 | 932.0 | 818.8 | 754.6 | 718.0 | 716.3 |
| 47.5° | 5355.7 | 5150.0 | 3618.2 | 1819.9 | 1047.8 | 947.9 | 812.1 | 725.5 | 683.0 | 660.5 | 655.5 |
| 50° | 5732.2 | 5402.4 | 3541.6 | 1632.5 | 942.0 | 857.1 | 737.1 | 678.0 | 645.5 | 624.7 | 617.2 |
| 52.5° | 6086.2 | 5631.4 | 3449.1 | 1420.1 | 834.6 | 768.8 | 703.8 | 658.0 | 623.9 | 600.5 | 590.5 |
| 55° | 6415.2 | 5828.8 | 3318.4 | 1202.7 | 747.1 | 709.7 | 688.0 | 649.7 | 610.5 | 583.0 | 572.2 |
| 57.5° | 6707.6 | 5957.1 | 3092.7 | 998.7 | 684.7 | 668.8 | 671.3 | 635.5 | 590.5 | 567.2 | 552.2 |
| 60° | 6950.8 | 6051.2 | 2758.7 | 809.6 | 633.9 | 628.9 | 645.5 | 608.9 | 556.4 | 529.7 | 518.1 |
| 62.5° | 7096.5 | 6049.5 | 2348.9 | 663.0 | 590.5 | 592.2 | 611.4 | 575.6 | 522.2 | 497.3 | 489.8 |
| 65° | 7084.0 | 5901.3 | 1899.1 | 567.2 | 548.9 | 550.6 | 575.6 | 538.9 | 493.9 | 478.9 | 478.1 |
| 67.5° | *6833.3* | *5539.8* | *1456.8* | *504.8* | *503.1* | *510.6* | *539.7* | *513.9* | *476.4* | *474.8* | *477.3* |
| 70° | 6154.5 | 4789.3 | 1049.5 | 454.8 | 455.6 | 466.4 | 504.8 | 498.1 | 467.3 | 470.6 | 469.8 |
| 72.5° | 4935.1 | 3651.5 | 704.7 | 402.3 | 403.1 | 420.6 | 471.4 | 485.6 | 458.1 | 502.3 | 508.9 |
| 75° | 3286.7 | 2277.2 | 453.1 | 346.5 | 347.3 | 369.8 | 442.3 | 461.4 | 433.1 | 500.6 | 504.8 |
| 77.5° | 1579.2 | 1023.7 | 328.2 | 291.5 | 291.5 | 312.3 | 382.3 | 413.1 | 369.0 | 389.0 | 356.5 |
| 80° | 545.6 | 384.8 | 258.2 | 234.9 | 229.9 | 244.0 | 322.3 | 358.2 | 318.2 | 293.2 | 274.9 |
| 82.5° | 214.9 | 199.9 | 207.4 | 182.4 | 165.8 | 174.9 | 250.7 | 295.7 | 234.1 | 211.6 | 210.7 |
| 85° | 123.3 | 129.9 | 146.6 | 120.8 | 95.8 | 107.4 | 184.1 | 212.4 | 176.6 | 155.8 | 159.1 |
| 87.5° | 33.3 | 45.8 | 67.5 | 62.5 | 43.3 | 45.8 | 87.5 | 117.4 | 101.6 | 78.3 | 80.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |


HS
SS

0

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Report Generated By FNC07603 / LDUCLS01DT446
Version: v6.13

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## Test Information

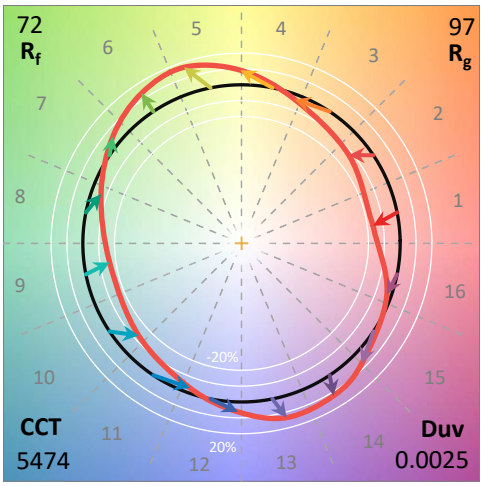
| | |
|---|---|
| Test Method: | LM-79-2008 |
| Report Number: | SP1-1908-441-9-R4 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 - 76IN SPHERE |
| Measurement Geometry: | 4π |
| Issue Date: | 10/28/2024 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| 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 | | |
| CIE u': | 0.2052 | R1: | 70.6 | R9: | -27.1 |
| CIE v': | 0.4804 | R2: | 74.6 | R10: | 40.8 |
| Duv: | 0.0025 | R3: | 78.3 | R11: | 74.6 |
| CIE x: | 0.3330 | R4: | 73.8 | R12: | 50.4 |
| CIE y: | 0.3466 | R5: | 72.4 | R13: | 70.0 |
| CIE z: | 0.3204 | R6: | 67.5 | R14: | 87.8 |
| 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 |

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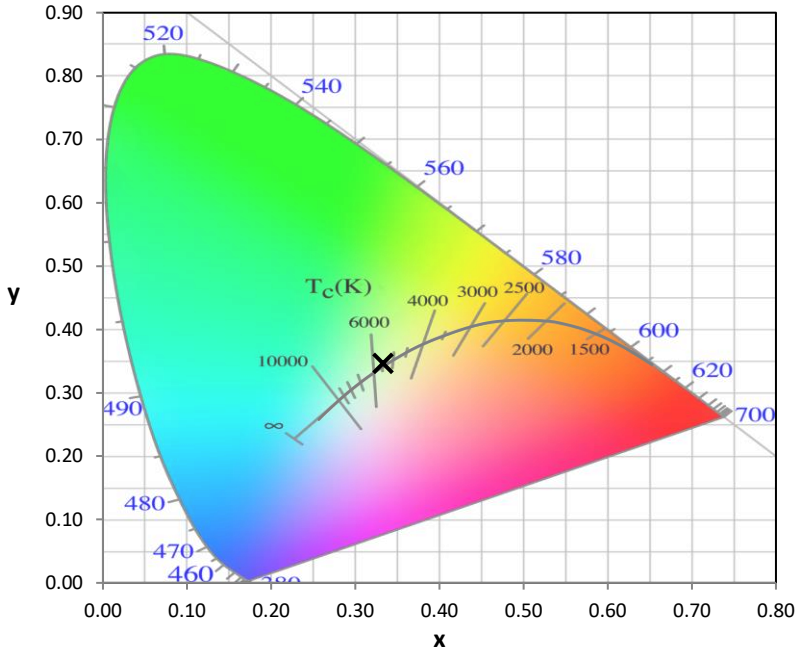
REPORT NUMBER: SP1-1908-441-9-R4

| 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 |

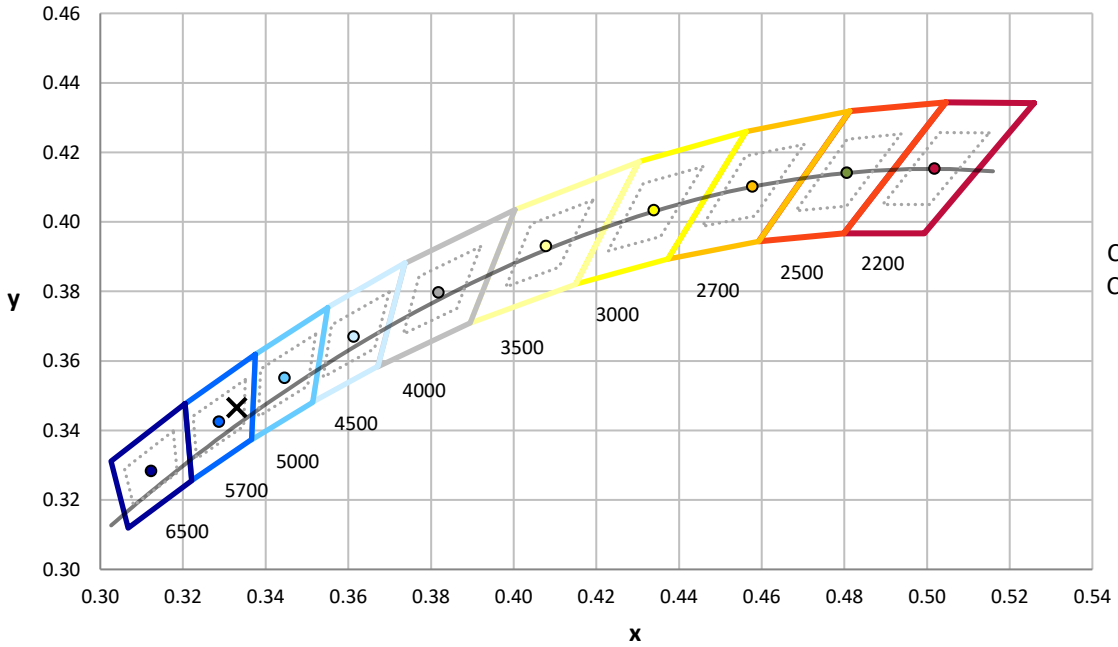
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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## CIE 1931 Chromaticity Diagram




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



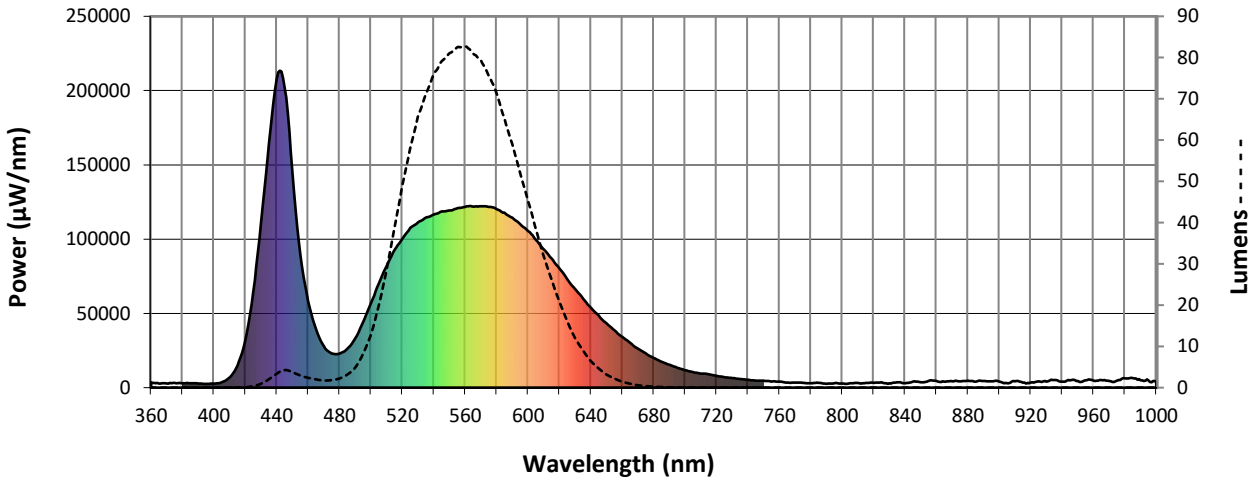

CCT = 5474K
CIE x = 0.3330
CIE y = 0.3466
Duv = 0.0025

Point lies inside the ANSI 5700K 4-step quadrangle

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## Photopic Flux vs. Wavelength



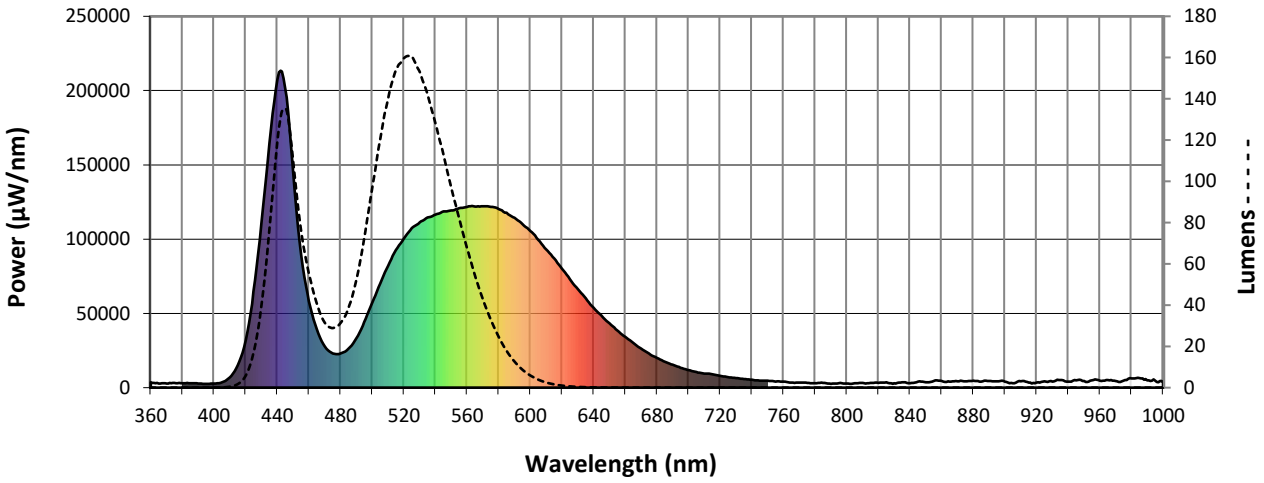

**Photopic Lumens: 7459.9**

| 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 | 0.0 | 490 | 33363 | 4.7 | 620 | 80193 | 20.9 | 750 | 4663 | 0.0 | 880 | 4678 | 0.0 |
| 365 | 2862 | 0.0 | 495 | 44177 | 8.0 | 625 | 73091 | 16.1 | 755 | 4147 | 0.0 | 885 | 4128 | 0.0 |
| 370 | 2865 | 0.0 | 500 | 57019 | 12.6 | 630 | 66269 | 12.0 | 760 | 4040 | 0.0 | 890 | 4504 | 0.0 |
| 375 | 3254 | 0.0 | 505 | 70030 | 19.6 | 635 | 60012 | 9.0 | 765 | 3474 | 0.0 | 895 | 4371 | 0.0 |
| 380 | 3076 | 0.0 | 510 | 81972 | 28.2 | 640 | 53914 | 6.4 | 770 | 3469 | 0.0 | 900 | 4082 | 0.0 |
| 385 | 2904 | 0.0 | 515 | 92590 | 38.4 | 645 | 48385 | 4.7 | 775 | 3181 | 0.0 | 905 | 2982 | 0.0 |
| 390 | 2689 | 0.0 | 520 | 100305 | 48.6 | 650 | 43219 | 3.2 | 780 | 2969 | 0.0 | 910 | 4351 | 0.0 |
| 395 | 2619 | 0.0 | 525 | 107452 | 57.7 | 655 | 38562 | 2.2 | 785 | 3132 | 0.0 | 915 | 3365 | 0.0 |
| 400 | 2679 | 0.0 | 530 | 111373 | 65.6 | 660 | 34110 | 1.4 | 790 | 2507 | 0.0 | 920 | 3430 | 0.0 |
| 405 | 3515 | 0.0 | 535 | 114505 | 71.0 | 665 | 30085 | 1.0 | 795 | 2968 | 0.0 | 925 | 4264 | 0.0 |
| 410 | 6934 | 0.0 | 540 | 116408 | 75.8 | 670 | 26205 | 0.6 | 800 | 2758 | 0.0 | 930 | 4095 | 0.0 |
| 415 | 14943 | 0.0 | 545 | 118700 | 79.0 | 675 | 22906 | 0.4 | 805 | 2872 | 0.0 | 935 | 5048 | 0.0 |
| 420 | 31939 | 0.1 | 550 | 119209 | 81.0 | 680 | 20058 | 0.2 | 810 | 3094 | 0.0 | 940 | 4074 | 0.0 |
| 425 | 64701 | 0.3 | 555 | 120742 | 82.5 | 685 | 17413 | 0.1 | 815 | 3222 | 0.0 | 945 | 4949 | 0.0 |
| 430 | 110939 | 0.9 | 560 | 121594 | 82.6 | 690 | 15447 | 0.1 | 820 | 3238 | 0.0 | 950 | 4387 | 0.0 |
| 435 | 164597 | 1.9 | 565 | 121913 | 81.1 | 695 | 13398 | 0.1 | 825 | 3524 | 0.0 | 955 | 4978 | 0.0 |
| 440 | 207696 | 3.3 | 570 | 122147 | 79.4 | 700 | 11777 | 0.0 | 830 | 2921 | 0.0 | 960 | 4706 | 0.0 |
| 445 | 201830 | 4.2 | 575 | 121605 | 75.7 | 705 | 10412 | 0.0 | 835 | 3595 | 0.0 | 965 | 5083 | 0.0 |
| 450 | 145410 | 3.8 | 580 | 120248 | 71.5 | 710 | 9544 | 0.0 | 840 | 3016 | 0.0 | 970 | 4522 | 0.0 |
| 455 | 89594 | 3.0 | 585 | 117717 | 65.4 | 715 | 8940 | 0.0 | 845 | 4032 | 0.0 | 975 | 4740 | 0.0 |
| 460 | 58321 | 2.4 | 590 | 114359 | 59.1 | 720 | 7897 | 0.0 | 850 | 3579 | 0.0 | 980 | 6122 | 0.0 |
| 465 | 39318 | 2.0 | 595 | 109974 | 52.1 | 725 | 7045 | 0.0 | 855 | 4571 | 0.0 | 985 | 6450 | 0.0 |
| 470 | 27693 | 1.7 | 600 | 105269 | 45.4 | 730 | 6483 | 0.0 | 860 | 4485 | 0.0 | 990 | 4875 | 0.0 |
| 475 | 23081 | 1.8 | 605 | 99453 | 38.5 | 735 | 5838 | 0.0 | 865 | 3978 | 0.0 | 995 | 4764 | 0.0 |
| 480 | 23002 | 2.2 | 610 | 92921 | 31.9 | 740 | 5261 | 0.0 | 870 | 4298 | 0.0 | 1000 | 3640 | 0.0 |
| 485 | 26201 | 3.1 | 615 | 86989 | 26.3 | 745 | 4760 | 0.0 | 875 | 4356 | 0.0 | | | |

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## Scotopic Flux vs. Wavelength



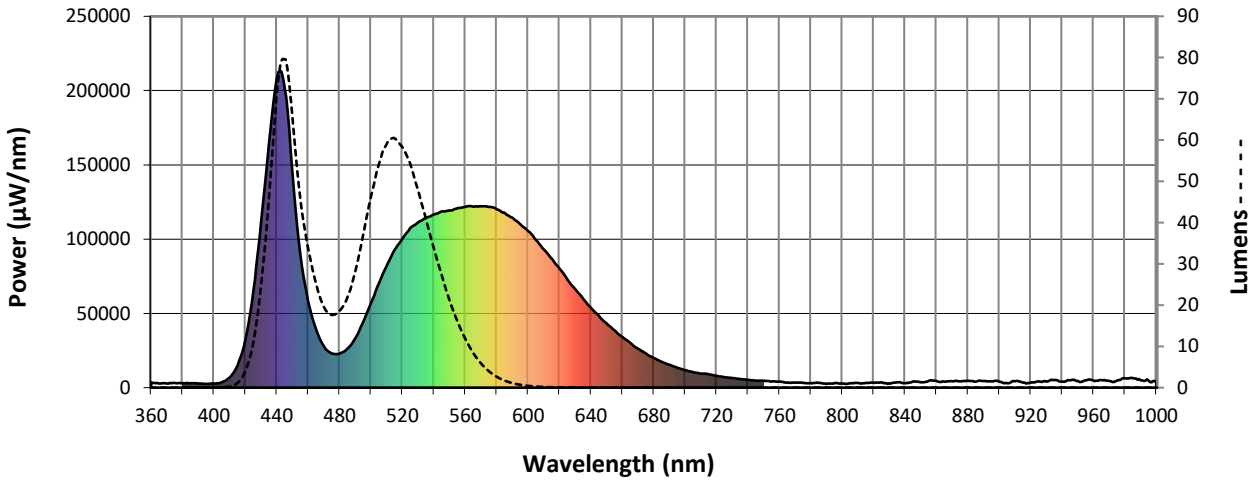

**Scotopic Lumens: 13759.3** **S/P: 1.85**

| 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 | 0.0 | 490 | 33363 | 27.8 | 620 | 80193 | 0.1 | 750 | 4663 | 0.0 | 880 | 4678 | 0.0 |
| 365 | 2862 | 0.0 | 495 | 44177 | 36.5 | 625 | 73091 | 0.0 | 755 | 4147 | 0.0 | 885 | 4128 | 0.0 |
| 370 | 2865 | 0.0 | 500 | 57019 | 45.8 | 630 | 66269 | 0.0 | 760 | 4040 | 0.0 | 890 | 4504 | 0.0 |
| 375 | 3254 | 0.0 | 505 | 70030 | 53.7 | 635 | 60012 | 0.0 | 765 | 3474 | 0.0 | 895 | 4371 | 0.0 |
| 380 | 3076 | 0.0 | 510 | 81972 | 58.9 | 640 | 53914 | 0.0 | 770 | 3469 | 0.0 | 900 | 4082 | 0.0 |
| 385 | 2904 | 0.0 | 515 | 92590 | 60.5 | 645 | 48385 | 0.0 | 775 | 3181 | 0.0 | 905 | 2982 | 0.0 |
| 390 | 2689 | 0.0 | 520 | 100305 | 58.4 | 650 | 43219 | 0.0 | 780 | 2969 | 0.0 | 910 | 4351 | 0.0 |
| 395 | 2619 | 0.0 | 525 | 107452 | 54.5 | 655 | 38562 | 0.0 | 785 | 3132 | 0.0 | 915 | 3365 | 0.0 |
| 400 | 2679 | 0.0 | 530 | 111373 | 48.1 | 660 | 34110 | 0.0 | 790 | 2507 | 0.0 | 920 | 3430 | 0.0 |
| 405 | 3515 | 0.1 | 535 | 114505 | 41.2 | 665 | 30085 | 0.0 | 795 | 2968 | 0.0 | 925 | 4264 | 0.0 |
| 410 | 6934 | 0.3 | 540 | 116408 | 34.1 | 670 | 26205 | 0.0 | 800 | 2758 | 0.0 | 930 | 4095 | 0.0 |
| 415 | 14943 | 1.0 | 545 | 118700 | 27.6 | 675 | 22906 | 0.0 | 805 | 2872 | 0.0 | 935 | 5048 | 0.0 |
| 420 | 31939 | 3.6 | 550 | 119209 | 21.4 | 680 | 20058 | 0.0 | 810 | 3094 | 0.0 | 940 | 4074 | 0.0 |
| 425 | 64701 | 10.1 | 555 | 120742 | 16.3 | 685 | 17413 | 0.0 | 815 | 3222 | 0.0 | 945 | 4949 | 0.0 |
| 430 | 110939 | 23.4 | 560 | 121594 | 12.0 | 690 | 15447 | 0.0 | 820 | 3238 | 0.0 | 950 | 4387 | 0.0 |
| 435 | 164597 | 43.9 | 565 | 121913 | 8.6 | 695 | 13398 | 0.0 | 825 | 3524 | 0.0 | 955 | 4978 | 0.0 |
| 440 | 207696 | 69.4 | 570 | 122147 | 6.0 | 700 | 11777 | 0.0 | 830 | 2921 | 0.0 | 960 | 4706 | 0.0 |
| 445 | 201830 | 79.6 | 575 | 121605 | 4.0 | 705 | 10412 | 0.0 | 835 | 3595 | 0.0 | 965 | 5083 | 0.0 |
| 450 | 145410 | 67.0 | 580 | 120248 | 2.7 | 710 | 9544 | 0.0 | 840 | 3016 | 0.0 | 970 | 4522 | 0.0 |
| 455 | 89594 | 46.9 | 585 | 117717 | 1.7 | 715 | 8940 | 0.0 | 845 | 4032 | 0.0 | 975 | 4740 | 0.0 |
| 460 | 58321 | 34.4 | 590 | 114359 | 1.1 | 720 | 7897 | 0.0 | 850 | 3579 | 0.0 | 980 | 6122 | 0.0 |
| 465 | 39318 | 25.7 | 595 | 109974 | 0.7 | 725 | 7045 | 0.0 | 855 | 4571 | 0.0 | 985 | 6450 | 0.0 |
| 470 | 27693 | 19.8 | 600 | 105269 | 0.4 | 730 | 6483 | 0.0 | 860 | 4485 | 0.0 | 990 | 4875 | 0.0 |
| 475 | 23081 | 17.6 | 605 | 99453 | 0.3 | 735 | 5838 | 0.0 | 865 | 3978 | 0.0 | 995 | 4764 | 0.0 |
| 480 | 23002 | 18.5 | 610 | 92921 | 0.2 | 740 | 5261 | 0.0 | 870 | 4298 | 0.0 | 1000 | 3640 | 0.0 |
| 485 | 26201 | 21.6 | 615 | 86989 | 0.1 | 745 | 4760 | 0.0 | 875 | 4356 | 0.0 | | | |

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## 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 | 0.0 | 490 | 33363 | 51.4 | 620 | 80193 | 1.0 | 750 | 4663 | 0.0 | 880 | 4678 | 0.0 |
| 365 | 2862 | 0.0 | 495 | 44177 | 71.4 | 625 | 73091 | 0.6 | 755 | 4147 | 0.0 | 885 | 4128 | 0.0 |
| 370 | 2865 | 0.0 | 500 | 57019 | 95.4 | 630 | 66269 | 0.4 | 760 | 4040 | 0.0 | 890 | 4504 | 0.0 |
| 375 | 3254 | 0.0 | 505 | 70030 | 119.1 | 635 | 60012 | 0.2 | 765 | 3474 | 0.0 | 895 | 4371 | 0.0 |
| 380 | 3076 | 0.0 | 510 | 81972 | 138.9 | 640 | 53914 | 0.1 | 770 | 3469 | 0.0 | 900 | 4082 | 0.0 |
| 385 | 2904 | 0.0 | 515 | 92590 | 153.5 | 645 | 48385 | 0.1 | 775 | 3181 | 0.0 | 905 | 2982 | 0.0 |
| 390 | 2689 | 0.0 | 520 | 100305 | 159.4 | 650 | 43219 | 0.0 | 780 | 2969 | 0.0 | 910 | 4351 | 0.0 |
| 395 | 2619 | 0.0 | 525 | 107452 | 160.7 | 655 | 38562 | 0.0 | 785 | 3132 | 0.0 | 915 | 3365 | 0.0 |
| 400 | 2679 | 0.0 | 530 | 111373 | 153.5 | 660 | 34110 | 0.0 | 790 | 2507 | 0.0 | 920 | 3430 | 0.0 |
| 405 | 3515 | 0.1 | 535 | 114505 | 142.7 | 665 | 30085 | 0.0 | 795 | 2968 | 0.0 | 925 | 4264 | 0.0 |
| 410 | 6934 | 0.4 | 540 | 116408 | 128.6 | 670 | 26205 | 0.0 | 800 | 2758 | 0.0 | 930 | 4095 | 0.0 |
| 415 | 14943 | 1.5 | 545 | 118700 | 113.8 | 675 | 22906 | 0.0 | 805 | 2872 | 0.0 | 935 | 5048 | 0.0 |
| 420 | 31939 | 5.3 | 550 | 119209 | 97.5 | 680 | 20058 | 0.0 | 810 | 3094 | 0.0 | 940 | 4074 | 0.0 |
| 425 | 64701 | 15.8 | 555 | 120742 | 82.5 | 685 | 17413 | 0.0 | 815 | 3222 | 0.0 | 945 | 4949 | 0.0 |
| 430 | 110939 | 37.8 | 560 | 121594 | 68.0 | 690 | 15447 | 0.0 | 820 | 3238 | 0.0 | 950 | 4387 | 0.0 |
| 435 | 164597 | 73.6 | 565 | 121913 | 54.7 | 695 | 13398 | 0.0 | 825 | 3524 | 0.0 | 955 | 4978 | 0.0 |
| 440 | 207696 | 116.1 | 570 | 122147 | 43.1 | 700 | 11777 | 0.0 | 830 | 2921 | 0.0 | 960 | 4706 | 0.0 |
| 445 | 201830 | 135.1 | 575 | 121605 | 33.1 | 705 | 10412 | 0.0 | 835 | 3595 | 0.0 | 965 | 5083 | 0.0 |
| 450 | 145410 | 112.7 | 580 | 120248 | 24.8 | 710 | 9544 | 0.0 | 840 | 3016 | 0.0 | 970 | 4522 | 0.0 |
| 455 | 89594 | 78.3 | 585 | 117717 | 18.0 | 715 | 8940 | 0.0 | 845 | 4032 | 0.0 | 975 | 4740 | 0.0 |
| 460 | 58321 | 56.3 | 590 | 114359 | 12.7 | 720 | 7897 | 0.0 | 850 | 3579 | 0.0 | 980 | 6122 | 0.0 |
| 465 | 39318 | 41.5 | 595 | 109974 | 8.8 | 725 | 7045 | 0.0 | 855 | 4571 | 0.0 | 985 | 6450 | 0.0 |
| 470 | 27693 | 31.9 | 600 | 105269 | 5.9 | 730 | 6483 | 0.0 | 860 | 4485 | 0.0 | 990 | 4875 | 0.0 |
| 475 | 23081 | 28.9 | 605 | 99453 | 3.9 | 735 | 5838 | 0.0 | 865 | 3978 | 0.0 | 995 | 4764 | 0.0 |
| 480 | 23002 | 31.1 | 610 | 92921 | 2.5 | 740 | 5261 | 0.0 | 870 | 4298 | 0.0 | 1000 | 3640 | 0.0 |
| 485 | 26201 | 38.0 | 615 | 86989 | 1.6 | 745 | 4760 | 0.0 | 875 | 4356 | 0.0 | | | |

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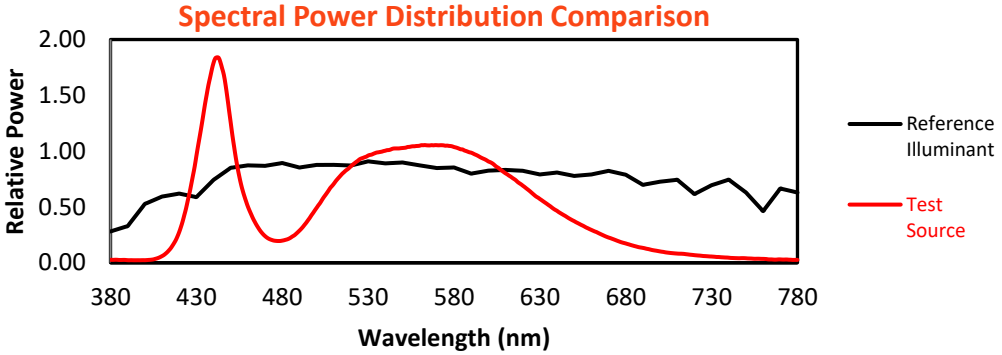
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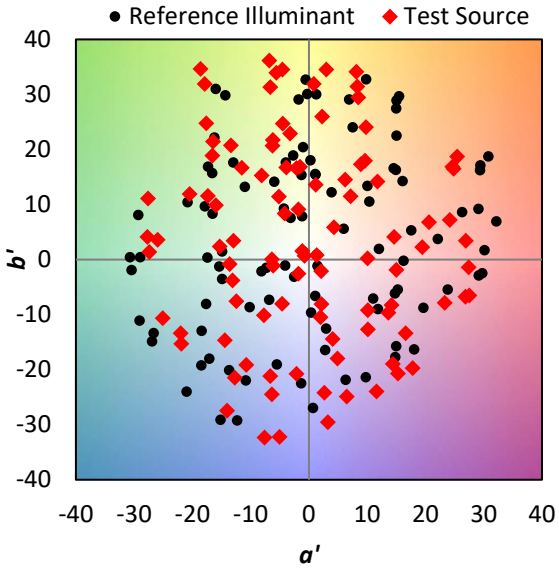
## Summary

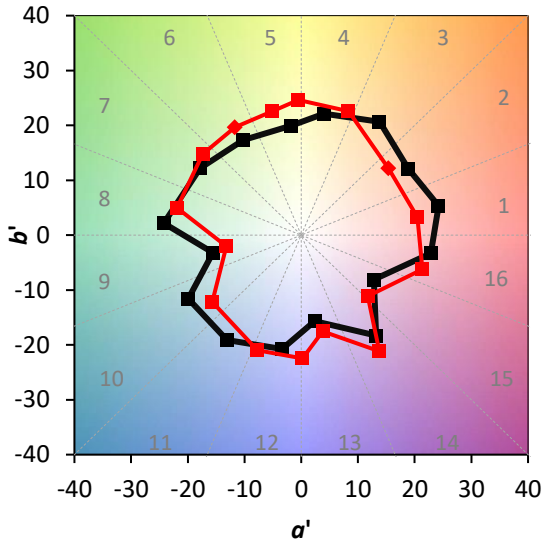
$R_f$ = 72.1
$R_g$ = 97.2
CIE $R_a$ = 71.7
$R_9$ = -27.1

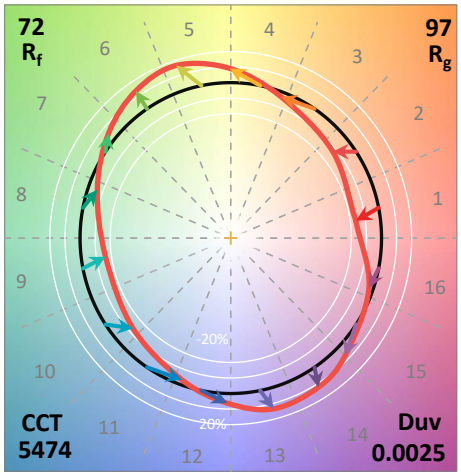
## Spectral Power Distribution Comparison

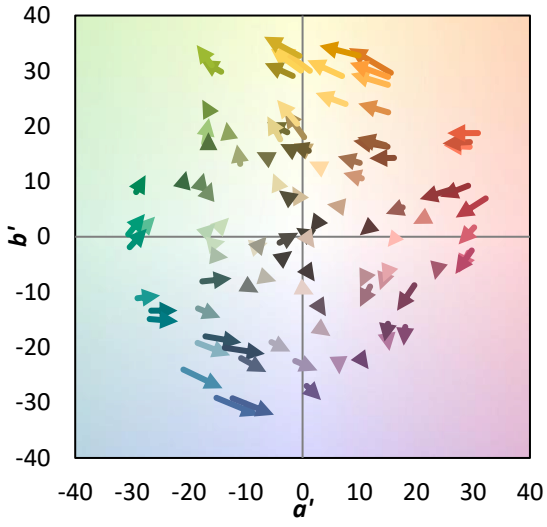



## Color Vector Graphics



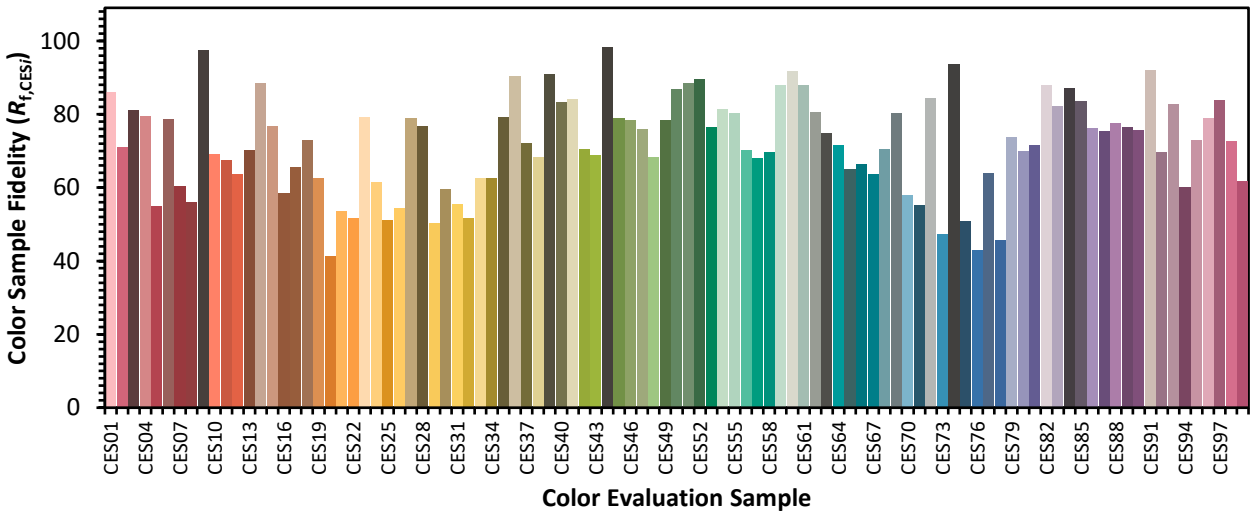
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Peachtree City, GA 30269

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## 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 | |

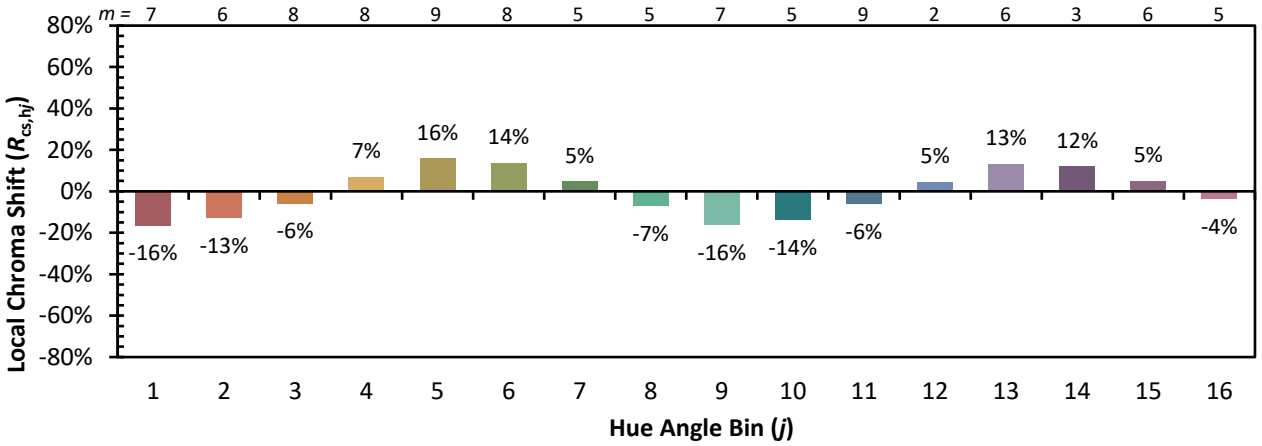


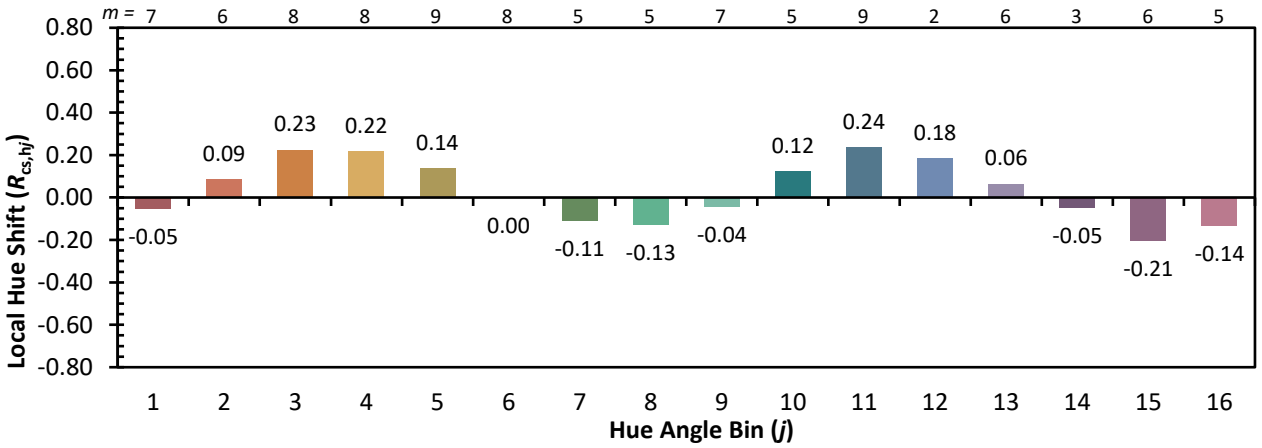
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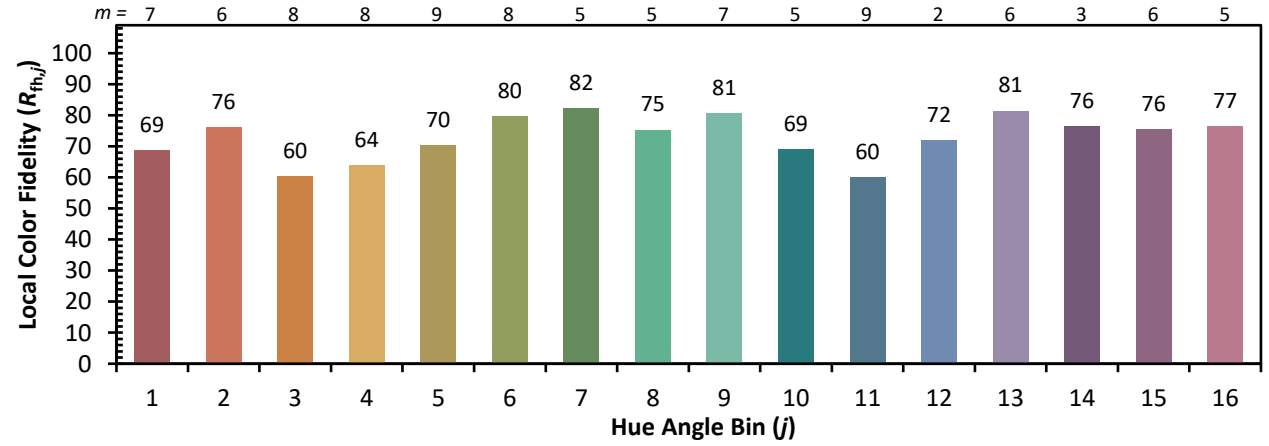
REPORT NUMBER: SP1-1908-441-9-R4

**TM-30-18**

## Color Rendition by Hue-Angle Bin



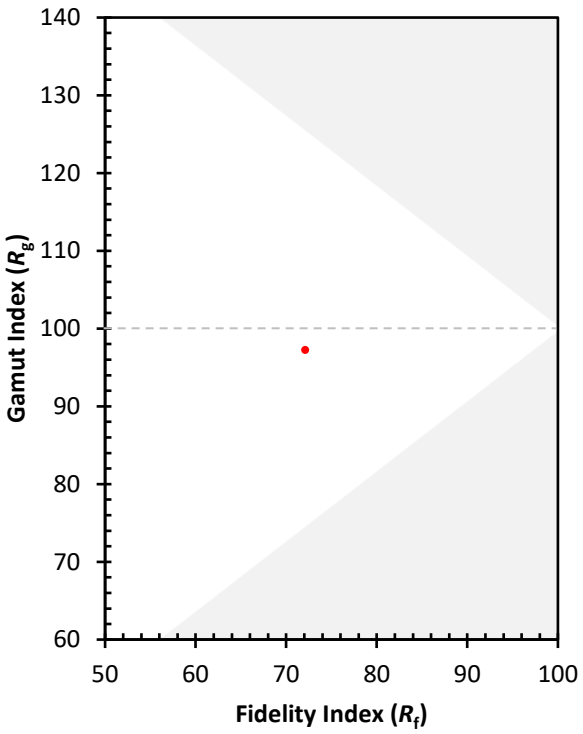



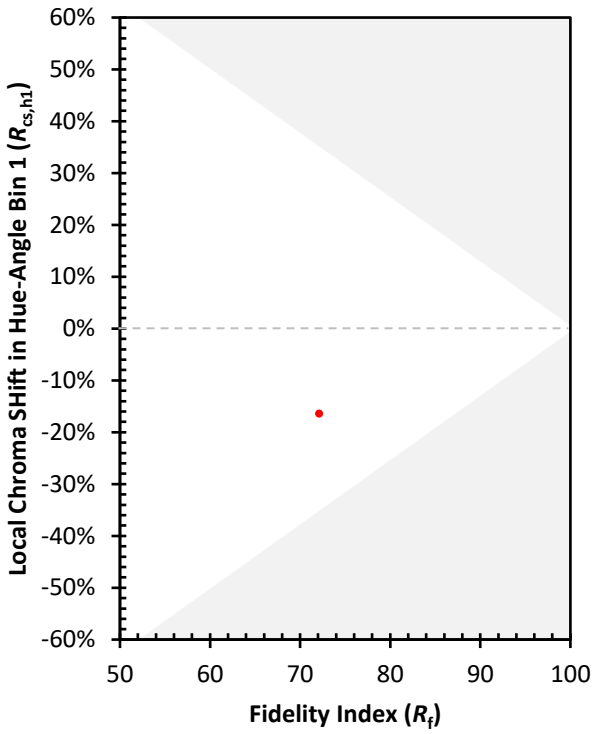
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### Measure Comparisons




(END OF REPORT)