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

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Peachtree City, GA 30269

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: P1200226

Luminaire Tested: GPC-SB2C-740-U-SL3-HSS

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: | P1200226 |
| | TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13) |
| Test Lab: | INNOVATION CENTER |
| Issue Date: | 3/14/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GPC-SB2C-740-U-SL3-HSS |
| Description: | GALLEON PEDESTRIAN LUMINAIRE |
| | (2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD |
| Light Source: | - |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 12757 lumens |
| Efficiency: | N/A |
| Efficacy: | 126.4 lumens/watt |
| Luminous Opening: | Rectangular (W 1' x L: 0.5' x H: 0') |
| IES Classification: | Type III - Medium |
| BUG Rating: | B1 - U0 - G3 |

| | |
|---|---|
| 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 |

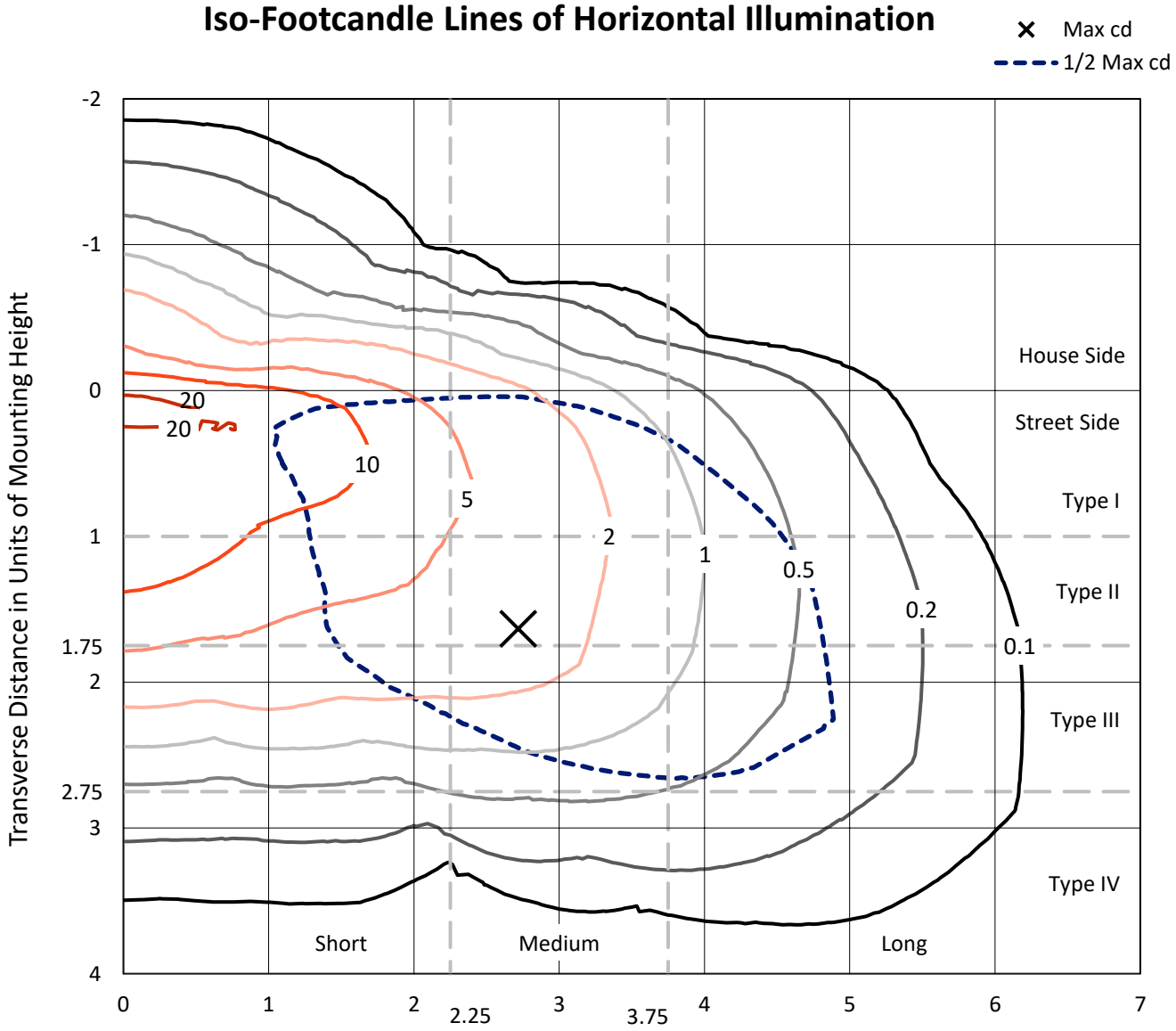


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Scaled Data Report

REPORT NUMBER: P1200226
CATALOG NUMBER: GPC-SB2C-740-U-SL3-HSS

## Iso-Footcandle Lines of Horizontal Illumination



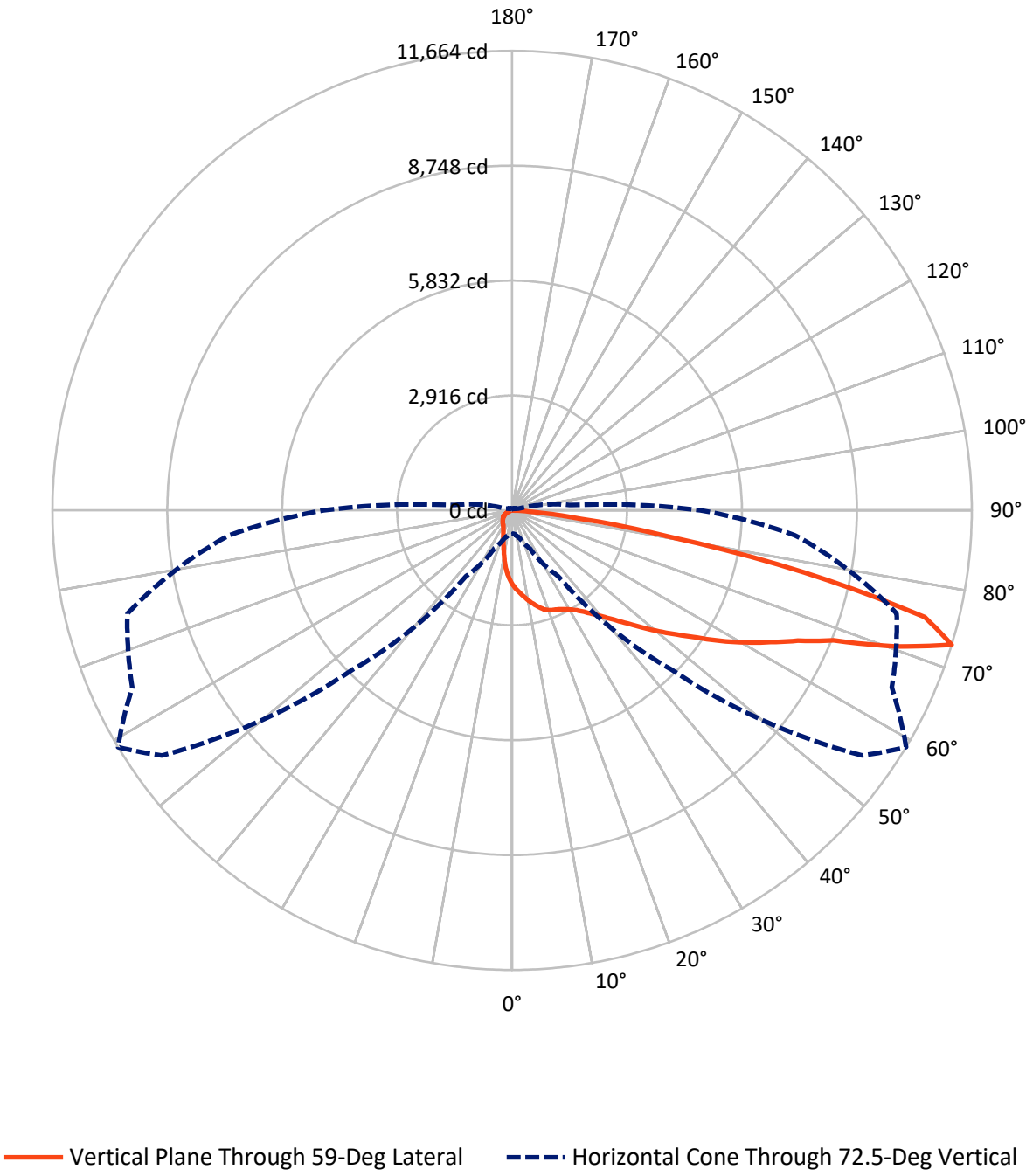

Based on 10 foot mounting height. Maximum calculated value = 23.3 fc
Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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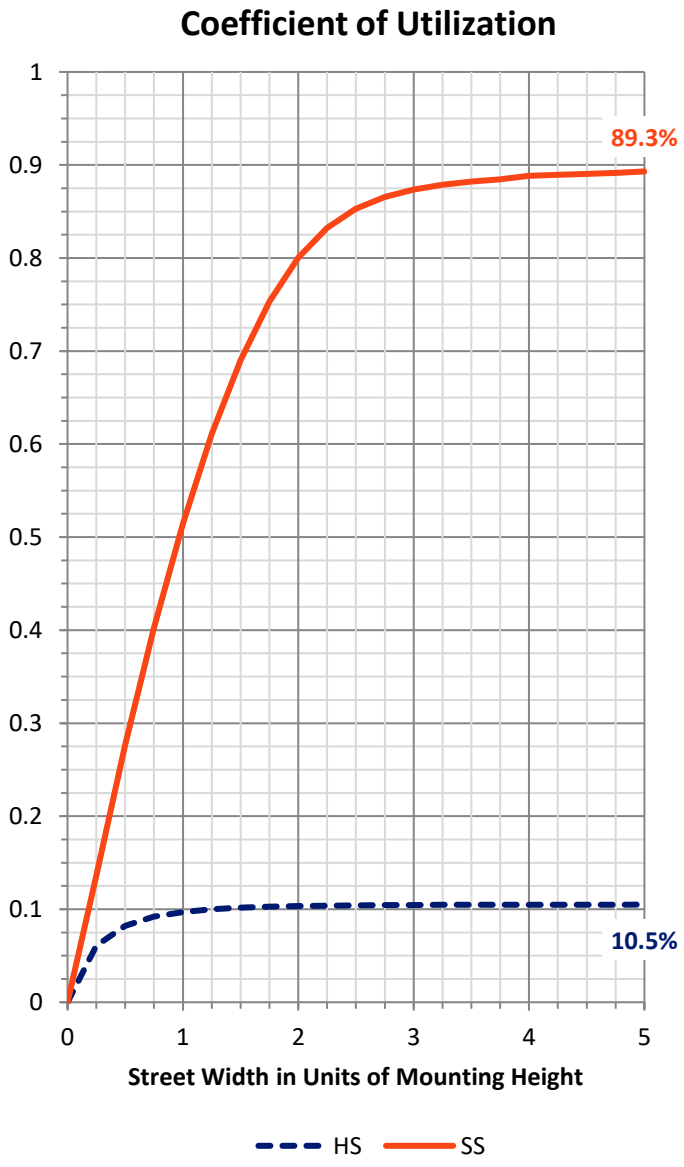
REPORT NUMBER: P1200226
CATALOG NUMBER: GPC-SB2C-740-U-SL3-HSS

**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 1347.4 | 0.0 | 1347.4 |
| | % Fixture | 10.6 | 0.0 | 10.6 |
| **Street Side** | Lumens | 11409.6 | 0.0 | 11409.6 |
| | % Fixture | 89.4 | 0.0 | 89.4 |
| **Total** | Lumens | 12757.0 | 0.0 | 12757.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 170.7 | 1.3 |
| 10°-20° | 453.3 | 3.6 |
| 20°-30° | 718.5 | 5.6 |
| 30°-40° | 1153.0 | 9.0 |
| 40°-50° | 1841.6 | 14.4 |
| 50°-60° | 2666.4 | 20.9 |
| 60°-70° | 3164.3 | 24.8 |
| 70°-80° | 2349.1 | 18.4 |
| 80°-90° | 240.2 | 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° | 12757.0 | 100.0 |
| 0°-180° | 12757.0 | 100.0 |



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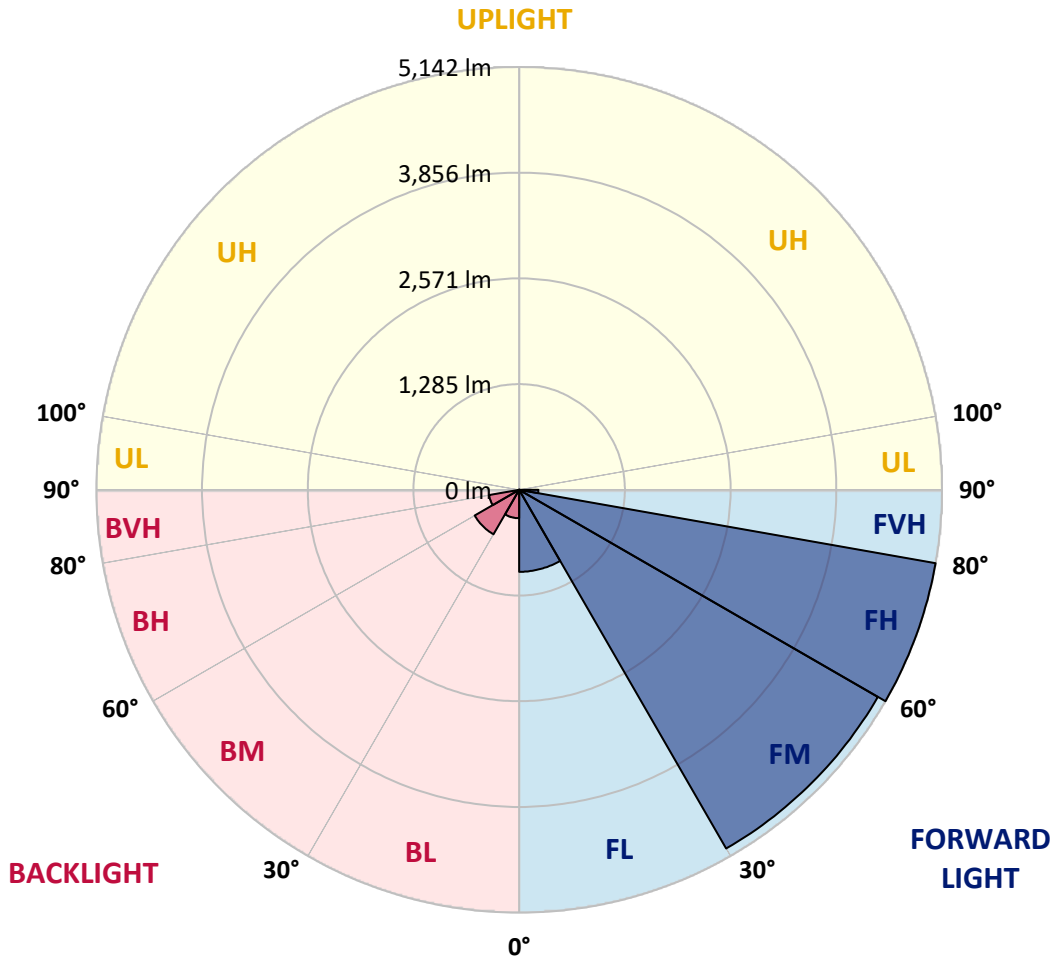
Scaled Data Report

REPORT NUMBER: P1200226
CATALOG NUMBER: GPC-SB2C-740-U-SL3-HSS

## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 997.3 | 7.8 | | | |
| FM | (30°-60°) | 5036.3 | 39.5 | | | |
| FH | (60°-80°) | 5141.8 | 40.3 | | | G3/7500 |
| FVH | (80°-90°) | 234.2 | 1.8 | | | G3/500 |
| BL | (0°-30°) | 345.2 | 2.7 | B1/500 | | |
| BM | (30°-60°) | 624.7 | 4.9 | B1/1000 | | |
| BH | (60°-80°) | 371.6 | 2.9 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 6.0 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B1-U0-G3**
Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1886.5 | 1886.5 | 1886.5 | 1886.5 | 1886.5 | 1886.5 | 1886.5 | *1886.5* | 1886.5 | 1886.5 | 1886.5 |
| 2.5° | 2093.0 | 2081.3 | 2083.0 | 2063.0 | 2048.9 | 2033.9 | 2004.7 | *2000.6* | 1979.7 | 1943.1 | 1905.6 |
| 5° | 2275.4 | 2267.9 | 2261.2 | 2238.8 | 2209.6 | 2173.0 | 2123.8 | *2106.3* | 2068.0 | 2004.7 | 1931.4 |
| 7.5° | 2408.7 | 2399.5 | 2402.8 | 2380.3 | 2357.0 | 2316.2 | 2248.8 | *2216.3* | 2165.5 | 2068.9 | 1958.1 |
| 10° | 2434.5 | 2429.5 | 2451.1 | 2459.5 | 2459.5 | 2433.7 | 2367.9 | *2335.4* | 2261.2 | 2138.0 | 1985.6 |
| 12.5° | 2289.6 | 2290.4 | 2344.5 | 2409.5 | 2494.5 | 2518.6 | 2474.5 | *2439.5* | 2366.2 | 2211.3 | 2020.5 |
| 15° | 2120.5 | 2121.3 | 2173.8 | 2257.1 | 2396.2 | 2535.3 | 2570.2 | *2547.8* | 2472.0 | 2290.4 | 2061.4 |
| 17.5° | 2018.9 | 2014.7 | 2049.7 | 2118.0 | 2263.7 | 2459.5 | 2628.5 | *2643.5* | 2581.9 | 2377.9 | 2106.3 |
| 20° | 2004.7 | 1997.2 | 2015.6 | 2049.7 | 2153.8 | 2364.5 | 2635.2 | *2706.0* | 2695.2 | 2477.0 | 2158.0 |
| 22.5° | 2091.3 | 2079.7 | 2069.7 | 2071.4 | 2115.5 | 2285.4 | 2618.6 | *2741.0* | 2811.8 | 2596.1 | 2228.8 |
| 25° | 2262.9 | 2244.6 | 2212.1 | 2170.5 | 2161.3 | 2268.7 | 2606.9 | *2779.3* | 2920.1 | 2748.5 | 2322.0 |
| 27.5° | 2472.8 | 2447.0 | 2384.5 | 2322.0 | 2268.7 | 2315.4 | 2631.0 | *2840.1* | 3042.5 | 2925.9 | 2430.3 |
| 30° | 2703.5 | 2671.9 | 2609.4 | 2491.1 | 2406.2 | 2419.5 | 2688.5 | *2920.1* | 3199.1 | 3126.6 | 2566.1 |
| 32.5° | 3042.5 | 2969.2 | 2860.1 | 2679.4 | 2566.9 | 2531.9 | 2775.1 | *3021.7* | 3393.1 | 3394.0 | 2762.6 |
| 35° | 3333.2 | 3292.3 | 3182.4 | 2957.5 | 2726.8 | 2681.0 | 2889.2 | *3164.9* | 3662.1 | 3747.9 | 3037.5 |
| 37.5° | 3523.9 | 3468.1 | 3371.5 | 3202.4 | 2975.0 | 2834.3 | 3041.7 | *3340.7* | 3947.0 | 4151.0 | 3376.5 |
| 40° | 3737.1 | 3682.1 | 3553.9 | 3394.8 | 3263.2 | 3097.5 | 3234.0 | *3543.0* | 4259.3 | 4565.0 | 3763.8 |
| 42.5° | 3994.5 | 3922.8 | 3771.2 | 3599.7 | 3462.3 | 3443.9 | 3485.6 | *3795.4* | 4580.0 | 5014.7 | 4166.9 |
| 45° | 4296.8 | 4229.3 | 4055.3 | 3838.7 | 3717.9 | 3685.5 | 3802.1 | *4089.4* | 4937.3 | 5507.8 | 4574.1 |
| 47.5° | 4580.0 | 4501.7 | 4314.3 | 4116.9 | 3982.8 | 3880.4 | 4138.5 | *4436.7* | 5342.0 | 6023.3 | 4958.9 |
| 50° | 4820.7 | 4740.7 | 4569.1 | 4358.4 | 4267.6 | 4133.5 | 4469.2 | *4824.0* | 5743.5 | 6547.2 | 5310.4 |
| 52.5° | 4985.6 | 4914.8 | 4713.2 | 4570.0 | 4508.3 | 4440.9 | 4856.5 | *5234.6* | 6143.3 | 7026.9 | 5657.7 |
| 55° | 4948.1 | 4884.8 | 4707.4 | 4697.4 | 4693.2 | 4764.0 | 5319.6 | *5700.2* | 6550.5 | 7480.9 | 6003.3 |
| 57.5° | 4829.0 | 4757.4 | 4535.8 | 4688.2 | 4835.7 | 5052.2 | 5820.9 | *6250.7* | 6997.0 | 7909.0 | 6336.5 |
| 60° | 4478.4 | 4453.4 | 4318.4 | 4670.7 | 4895.6 | 5334.5 | 6394.0 | *6803.7* | 7480.0 | 8285.4 | 6632.2 |
| 62.5° | 3736.3 | 3757.9 | 3757.1 | 4707.4 | 5003.9 | 5656.0 | 6914.5 | *7363.4* | 7952.3 | 8647.7 | 6895.4 |
| 65° | 2797.6 | 2872.6 | 2968.4 | 4377.6 | 5148.8 | 6229.9 | 7536.7 | *7970.6* | 8432.0 | 9069.1 | 7162.7 |
| 67.5° | 1879.8 | 1939.8 | 2004.7 | 3591.3 | 4717.4 | 6832.9 | 8570.3 | *8802.6* | 9006.7 | 9536.4 | 7463.4 |
| 70° | 1076.1 | 1095.2 | 1186.0 | 2242.9 | 3636.3 | 6666.3 | 10253.5 | *10337.6* | 9863.7 | 10111.9 | 7682.4 |
| 72.5° | *603.0* | *596.3* | *716.3* | *1064.4* | *2032.2* | *5708.5* | *10843.2* | *11663.5* | *10630.8* | *10102.7* | *7193.5* |
| 75° | 403.1 | 403.9 | 493.1 | 671.3 | 792.1 | 3996.1 | 9344.0 | *10814.9* | 10171.0 | 8958.4 | 5877.6 |
| 77.5° | 274.8 | 284.0 | 362.3 | 518.9 | 366.5 | 1949.8 | 6181.6 | *7575.8* | 8234.6 | 6917.8 | 4057.8 |
| 80° | 119.1 | 119.9 | 239.0 | 372.3 | 247.4 | 620.5 | 3204.9 | *4058.6* | 5164.6 | 3884.5 | 1607.4 |
| 82.5° | 61.6 | 70.0 | 152.4 | 240.7 | 155.7 | 217.4 | 1514.2 | *1773.2* | 2167.1 | 1140.2 | 329.8 |
| 85° | 21.7 | 25.8 | 94.1 | 118.3 | 78.3 | 77.5 | 527.2 | *537.2* | 458.9 | 171.6 | 90.8 |
| 87.5° | 0.0 | 4.2 | 36.6 | 29.2 | 10.0 | 9.2 | 62.5 | *52.5* | 41.6 | 24.2 | 30.0 |
| 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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Scaled Data Report

REPORT NUMBER: P1200226
CATALOG NUMBER: GPC-SB2C-740-U-SL3-HSS

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1886.5 | 1886.5 | 1886.5 | 1886.5 | 1886.5 | 1886.5 | 1886.5 | 1886.5 | 1886.5 | 1886.5 | 1886.5 |
| 2.5° | 1888.1 | 1865.6 | 1829.0 | 1784.0 | 1731.5 | 1703.2 | 1662.4 | 1637.4 | 1614.9 | 1615.8 | 1634.1 |
| 5° | 1890.6 | 1853.1 | 1759.9 | 1660.7 | 1550.8 | 1470.0 | 1380.1 | 1316.8 | 1268.5 | 1256.8 | 1274.3 |
| 7.5° | 1898.1 | 1834.8 | 1682.4 | 1517.5 | 1334.3 | 1198.5 | 1074.4 | 996.1 | 952.0 | 940.3 | 952.0 |
| 10° | 1908.1 | 1814.8 | 1595.0 | 1342.6 | 1115.2 | 952.0 | 848.7 | 798.7 | 778.7 | 763.7 | 772.9 |
| 12.5° | 1916.4 | 1794.0 | 1485.0 | 1161.9 | 920.3 | 792.9 | 714.6 | 673.0 | 655.5 | 644.6 | 650.5 |
| 15° | 1930.6 | 1766.5 | 1365.9 | 993.6 | 788.7 | 684.6 | 610.5 | 579.7 | 574.7 | 576.3 | 578.8 |
| 17.5° | 1944.8 | 1739.9 | 1232.7 | 862.0 | 692.1 | 589.7 | 544.7 | 539.7 | 546.4 | 553.0 | 555.5 |
| 20° | 1960.6 | 1701.6 | 1097.7 | 762.9 | 603.0 | 523.9 | 512.2 | 515.5 | 518.9 | 530.5 | 533.9 |
| 22.5° | 1983.9 | 1653.3 | 979.5 | 678.8 | 528.9 | 492.2 | 486.4 | 488.9 | 491.4 | 503.1 | 506.4 |
| 25° | 2017.2 | 1601.6 | 883.7 | 601.3 | 482.2 | 466.4 | 460.6 | 460.6 | 463.9 | 474.7 | 478.9 |
| 27.5° | 2052.2 | 1528.3 | 806.2 | 529.7 | 454.7 | 438.1 | 428.1 | 428.1 | 432.3 | 444.8 | 449.8 |
| 30° | 2091.3 | 1461.7 | 745.4 | 476.4 | 431.4 | 409.8 | 396.4 | 393.1 | 398.1 | 413.9 | 418.1 |
| 32.5° | 2162.1 | 1418.4 | 702.1 | 451.4 | 410.6 | 384.0 | 365.6 | 356.5 | 361.5 | 379.8 | 384.8 |
| 35° | 2269.6 | 1408.4 | 672.1 | 438.9 | 390.6 | 360.6 | 334.8 | 320.7 | 324.8 | 344.0 | 349.8 |
| 37.5° | 2395.3 | 1429.2 | 643.0 | 422.3 | 371.5 | 338.1 | 304.0 | 285.7 | 292.3 | 309.8 | 314.8 |
| 40° | 2576.1 | 1515.8 | 620.5 | 409.8 | 352.3 | 311.5 | 273.2 | 254.9 | 265.7 | 280.7 | 283.2 |
| 42.5° | 2794.3 | 1669.9 | 614.7 | 398.1 | 329.0 | 283.2 | 244.9 | 231.5 | 239.9 | 254.0 | 256.5 |
| 45° | 3065.0 | 1866.5 | 641.3 | 383.1 | 303.2 | 255.7 | 222.4 | 214.9 | 217.4 | 231.5 | 238.2 |
| 47.5° | 3355.6 | 2068.0 | 714.6 | 369.8 | 280.7 | 233.2 | 204.9 | 198.2 | 196.6 | 209.9 | 218.2 |
| 50° | 3649.6 | 2247.1 | 801.2 | 359.8 | 264.9 | 214.9 | 191.6 | 183.2 | 179.1 | 187.4 | 190.7 |
| 52.5° | 3940.3 | 2389.5 | 857.9 | 343.1 | 249.0 | 196.6 | 179.9 | 167.4 | 159.9 | 164.1 | 167.4 |
| 55° | 4235.2 | 2514.4 | 861.2 | 318.2 | 234.0 | 184.9 | 168.2 | 154.1 | 144.9 | 144.9 | 146.6 |
| 57.5° | 4510.8 | 2624.4 | 812.1 | 284.8 | 213.2 | 174.1 | 152.4 | 140.8 | 130.8 | 127.4 | 128.3 |
| 60° | 4754.9 | 2706.0 | 730.4 | 247.4 | 194.9 | 159.9 | 136.6 | 127.4 | 114.9 | 108.3 | 106.6 |
| 62.5° | 4972.2 | 2746.0 | 618.8 | 209.1 | 172.4 | 143.3 | 121.6 | 111.6 | 94.9 | 86.6 | 85.8 |
| 65° | 5156.3 | 2705.2 | 502.2 | 173.2 | 153.2 | 124.9 | 104.1 | 94.1 | 75.8 | 65.8 | 65.8 |
| 67.5° | 5338.7 | 2518.6 | 379.8 | 145.8 | 133.3 | 104.9 | 85.8 | 76.6 | 63.3 | 55.0 | 55.0 |
| 70° | 5362.0 | 2126.3 | 265.7 | 122.4 | 110.8 | 80.8 | 69.1 | 63.3 | 51.6 | 44.1 | 43.3 |
| 72.5° | *4773.2* | *1530.0* | *161.6* | *99.9* | *86.6* | *57.5* | *55.0* | *50.0* | *38.3* | *33.3* | *32.5* |
| 75° | 3815.4 | 937.8 | 94.9 | 75.0 | 57.5 | 40.8 | 40.8 | 35.8 | 25.8 | 21.7 | 21.7 |
| 77.5° | 2636.9 | 490.6 | 55.8 | 48.3 | 34.1 | 24.2 | 26.7 | 21.7 | 12.5 | 10.0 | 10.0 |
| 80° | 1056.1 | 186.6 | 30.0 | 22.5 | 15.8 | 10.8 | 9.2 | 5.0 | 2.5 | 1.7 | 2.5 |
| 82.5° | 210.7 | 49.1 | 10.0 | 5.8 | 5.8 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 54.1 | 10.8 | 2.5 | 1.7 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 16.7 | 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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# LM-79-2008: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGRAW-EDISON

Report Number: SP1-1908-441-3-R4

Test Date: 10/02/2019

Luminaire Tested: SA1C-740-U-5WQ

Data in this report applies to families of products SA1C-740-U-5WQ

Data valid for all products using SA and SB light squares

Report Generated By FNC07603 / LDUCLS01DT446
Version: v6.13

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## Test Information

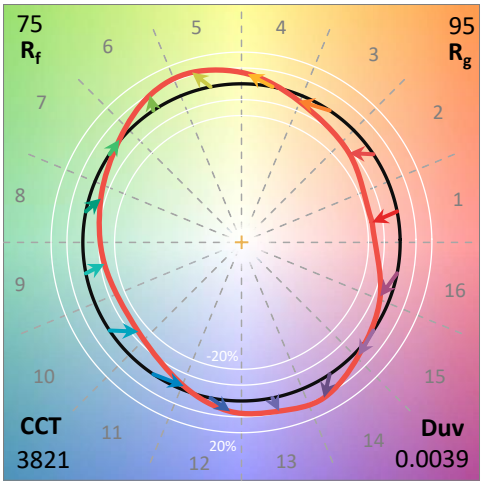
| | |
|---|---|
| Test Method: | LM-79-2008 |
| Report Number: | SP1-1908-441-3-R4 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 - 76IN SPHERE |
| Measurement Geometry: | 4π |
| Issue Date: | 11/05/2024 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | **SA1C-740-U-5WQ** |
| Description: | McGRAW EDISON ROADWAY AND AREA LUMINAIRE |

***THIS IS A REVISION OF SP1-1908-441-3-R3. TO UPDATE THE CATALOG INFORMATION.***TESTED IN SITU. ROADWAY AND AREA LUMINAIRE. (1) 70 CRI, 4000K, 1050MA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS.

## Spectral Parameters

| | | | | | |
|---|---|---|---|---|---|
| CCT (K): | 3821 | CRI (Ra): | 72.3 | | |
| CIE u': | 0.2264 | R1: | 68.5 | R9: | -33.5 |
| CIE v': | 0.5098 | R2: | 78.5 | R10: | 50.8 |
| Duv: | 0.0039 | R3: | 88.2 | R11: | 69.2 |
| CIE x: | 0.3918 | R4: | 72.2 | R12: | 48.9 |
| CIE y: | 0.3921 | R5: | 69.0 | R13: | 69.8 |
| CIE z: | 0.2161 | R6: | 71.0 | R14: | 93.4 |
| Peak Wavelength (nm): | 585 | R7: | 80.4 | | |
| Dominant Wavelength (nm): | 577 | R8: | 50.4 | | |
| Purity: | 35.4 | | | | |

| | |
|---|---|
| Rf: | 75.5 |
| Rg: | 94.8 |




## Test Conditions

| | |
|---|---|
| Stabilization Time: | 67M |
| Operation Time: | 12H |
| Room Temperature (°C) / RH%: | 25.0./44% |
| Sphere Temperature (°C): | 25.7 |

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Peachtree City, GA 30269

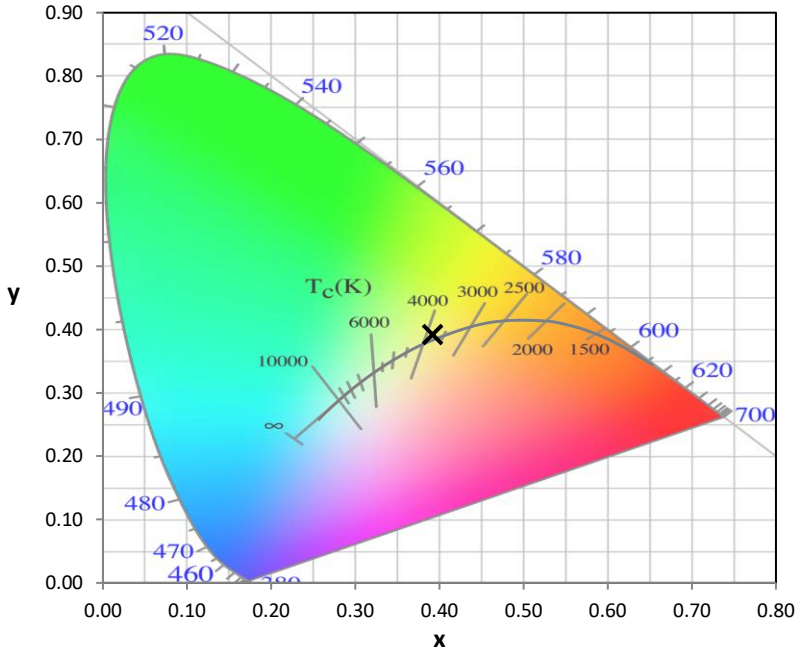
REPORT NUMBER: SP1-1908-441-3-R4

| 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 |

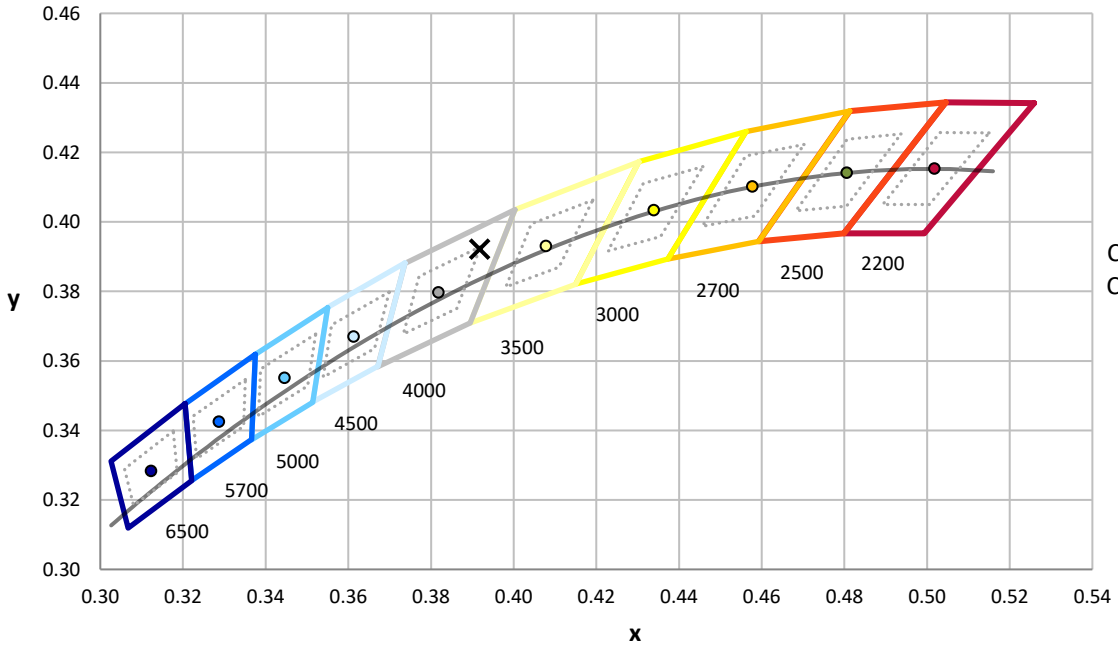
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Peachtree City, GA 30269

REPORT NUMBER: SP1-1908-441-3-R4

## CIE 1931 Chromaticity Diagram




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



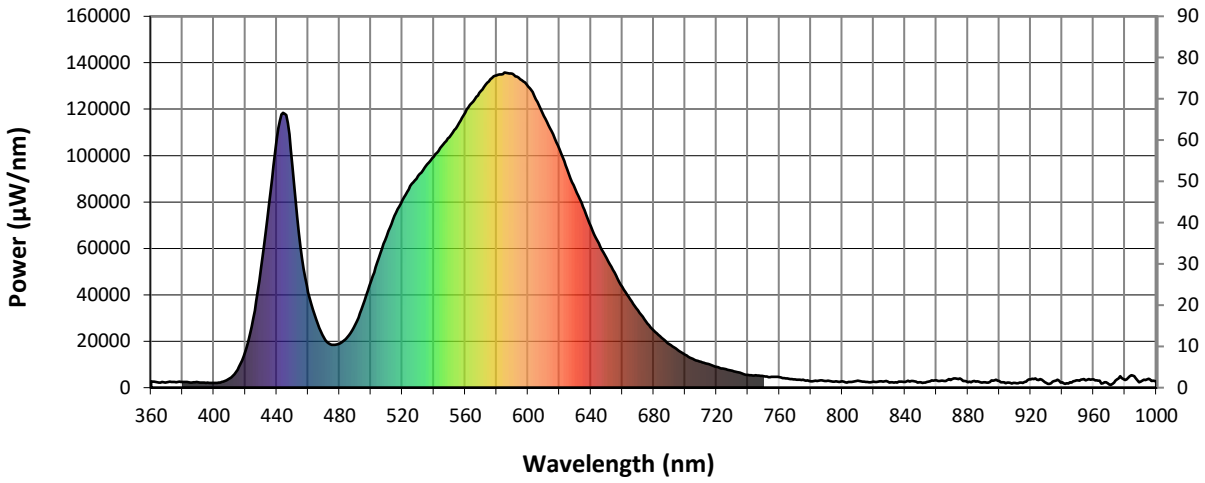

CCT = 3821K
CIE x = 0.3918
CIE y = 0.3921
Duv = 0.0039

Point lies inside the ANSI 4000K 7-step quadrangle

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## Photopic Flux vs. Wavelength



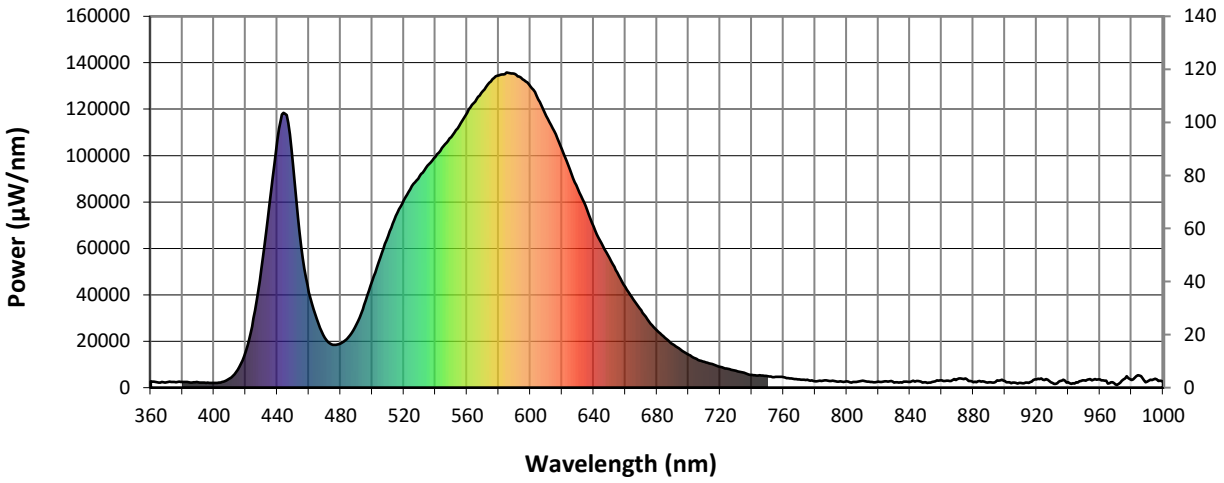

######

| λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 2662 | NR | 490 | 27227 | NR | 620 | 102725 | NR | 750 | 4998 | NR | 880 | 2294 | NR |
| 365 | 2227 | NR | 495 | 35672 | NR | 625 | 94018 | NR | 755 | 4638 | NR | 885 | 2526 | NR |
| 370 | 2351 | NR | 500 | 45857 | NR | 630 | 85530 | NR | 760 | 4579 | NR | 890 | 2275 | NR |
| 375 | 2487 | NR | 505 | 55772 | NR | 635 | 77990 | NR | 765 | 3952 | NR | 895 | 3151 | NR |
| 380 | 2507 | NR | 510 | 65358 | NR | 640 | 69405 | NR | 770 | 3495 | NR | 900 | 2915 | NR |
| 385 | 2244 | NR | 515 | 73945 | NR | 645 | 62112 | NR | 775 | 3353 | NR | 905 | 2197 | NR |
| 390 | 2299 | NR | 520 | 80747 | NR | 650 | 55830 | NR | 780 | 2778 | NR | 910 | 2048 | NR |
| 395 | 2056 | NR | 525 | 86794 | NR | 655 | 49542 | NR | 785 | 2954 | NR | 915 | 2045 | NR |
| 400 | 2025 | NR | 530 | 91185 | NR | 660 | 43371 | NR | 790 | 2859 | NR | 920 | 3527 | NR |
| 405 | 2414 | NR | 535 | 95640 | NR | 665 | 38089 | NR | 795 | 2638 | NR | 925 | 3296 | NR |
| 410 | 3944 | NR | 540 | 99533 | NR | 670 | 33284 | NR | 800 | 2710 | NR | 930 | 2096 | NR |
| 415 | 7705 | NR | 545 | 104097 | NR | 675 | 28574 | NR | 805 | 2390 | NR | 935 | 2810 | NR |
| 420 | 15513 | NR | 550 | 107982 | NR | 680 | 24590 | NR | 810 | 2947 | NR | 940 | 2304 | NR |
| 425 | 29927 | NR | 555 | 112790 | NR | 685 | 21480 | NR | 815 | 2387 | NR | 945 | 2250 | NR |
| 430 | 51389 | NR | 560 | 118428 | NR | 690 | 18698 | NR | 820 | 2557 | NR | 950 | 3082 | NR |
| 435 | 78905 | NR | 565 | 123208 | NR | 695 | 16372 | NR | 825 | 2693 | NR | 955 | 3173 | NR |
| 440 | 106921 | NR | 570 | 127740 | NR | 700 | 14200 | NR | 830 | 2208 | NR | 960 | 3569 | NR |
| 445 | 118008 | NR | 575 | 131879 | NR | 705 | 12325 | NR | 835 | 2160 | NR | 965 | 1744 | NR |
| 450 | 95722 | NR | 580 | 134489 | NR | 710 | 11122 | NR | 840 | 2493 | NR | 970 | 1283 | NR |
| 455 | 61053 | NR | 585 | 135793 | NR | 715 | 10157 | NR | 845 | 2809 | NR | 975 | 3622 | NR |
| 460 | 41109 | NR | 590 | 135243 | NR | 720 | 8957 | NR | 850 | 2287 | NR | 980 | 3346 | NR |
| 465 | 29591 | NR | 595 | 132928 | NR | 725 | 8084 | NR | 855 | 2564 | NR | 985 | 5229 | NR |
| 470 | 21545 | NR | 600 | 129738 | NR | 730 | 7241 | NR | 860 | 3166 | NR | 990 | 2613 | NR |
| 475 | 18425 | NR | 605 | 124239 | NR | 735 | 6387 | NR | 865 | 2867 | NR | 995 | 3838 | NR |
| 480 | 19056 | NR | 610 | 116984 | NR | 740 | 5430 | NR | 870 | 3742 | NR | 1000 | 2626 | NR |
| 485 | 21740 | NR | 615 | 110543 | NR | 745 | 5284 | NR | 875 | 3912 | NR | | | |

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## Scotopic Flux vs. Wavelength



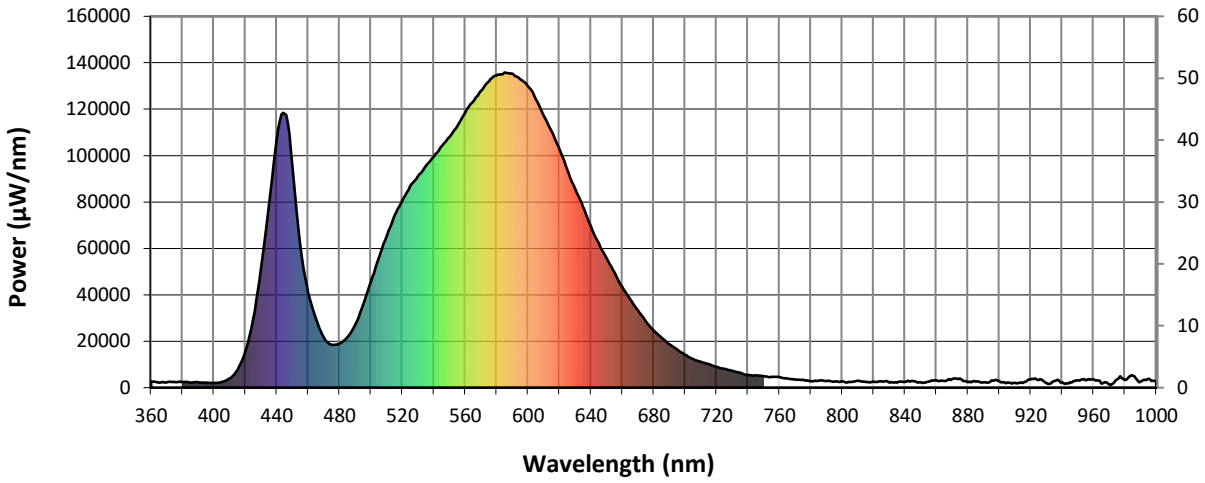

**Scotopic Lumens: 10930.8** **S/P: 1.47**

| 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 | 2662 | NR | 490 | 27227 | NR | 620 | 102725 | NR | 750 | 4998 | NR | 880 | 2294 | NR |
| 365 | 2227 | NR | 495 | 35672 | NR | 625 | 94018 | NR | 755 | 4638 | NR | 885 | 2526 | NR |
| 370 | 2351 | NR | 500 | 45857 | NR | 630 | 85530 | NR | 760 | 4579 | NR | 890 | 2275 | NR |
| 375 | 2487 | NR | 505 | 55772 | NR | 635 | 77990 | NR | 765 | 3952 | NR | 895 | 3151 | NR |
| 380 | 2507 | NR | 510 | 65358 | NR | 640 | 69405 | NR | 770 | 3495 | NR | 900 | 2915 | NR |
| 385 | 2244 | NR | 515 | 73945 | NR | 645 | 62112 | NR | 775 | 3353 | NR | 905 | 2197 | NR |
| 390 | 2299 | NR | 520 | 80747 | NR | 650 | 55830 | NR | 780 | 2778 | NR | 910 | 2048 | NR |
| 395 | 2056 | NR | 525 | 86794 | NR | 655 | 49542 | NR | 785 | 2954 | NR | 915 | 2045 | NR |
| 400 | 2025 | NR | 530 | 91185 | NR | 660 | 43371 | NR | 790 | 2859 | NR | 920 | 3527 | NR |
| 405 | 2414 | NR | 535 | 95640 | NR | 665 | 38089 | NR | 795 | 2638 | NR | 925 | 3296 | NR |
| 410 | 3944 | NR | 540 | 99533 | NR | 670 | 33284 | NR | 800 | 2710 | NR | 930 | 2096 | NR |
| 415 | 7705 | NR | 545 | 104097 | NR | 675 | 28574 | NR | 805 | 2390 | NR | 935 | 2810 | NR |
| 420 | 15513 | NR | 550 | 107982 | NR | 680 | 24590 | NR | 810 | 2947 | NR | 940 | 2304 | NR |
| 425 | 29927 | NR | 555 | 112790 | NR | 685 | 21480 | NR | 815 | 2387 | NR | 945 | 2250 | NR |
| 430 | 51389 | NR | 560 | 118428 | NR | 690 | 18698 | NR | 820 | 2557 | NR | 950 | 3082 | NR |
| 435 | 78905 | NR | 565 | 123208 | NR | 695 | 16372 | NR | 825 | 2693 | NR | 955 | 3173 | NR |
| 440 | 106921 | NR | 570 | 127740 | NR | 700 | 14200 | NR | 830 | 2208 | NR | 960 | 3569 | NR |
| 445 | 118008 | NR | 575 | 131879 | NR | 705 | 12325 | NR | 835 | 2160 | NR | 965 | 1744 | NR |
| 450 | 95722 | NR | 580 | 134489 | NR | 710 | 11122 | NR | 840 | 2493 | NR | 970 | 1283 | NR |
| 455 | 61053 | NR | 585 | 135793 | NR | 715 | 10157 | NR | 845 | 2809 | NR | 975 | 3622 | NR |
| 460 | 41109 | NR | 590 | 135243 | NR | 720 | 8957 | NR | 850 | 2287 | NR | 980 | 3346 | NR |
| 465 | 29591 | NR | 595 | 132928 | NR | 725 | 8084 | NR | 855 | 2564 | NR | 985 | 5229 | NR |
| 470 | 21545 | NR | 600 | 129738 | NR | 730 | 7241 | NR | 860 | 3166 | NR | 990 | 2613 | NR |
| 475 | 18425 | NR | 605 | 124239 | NR | 735 | 6387 | NR | 865 | 2867 | NR | 995 | 3838 | NR |
| 480 | 19056 | NR | 610 | 116984 | NR | 740 | 5430 | NR | 870 | 3742 | NR | 1000 | 2626 | NR |
| 485 | 21740 | NR | 615 | 110543 | NR | 745 | 5284 | NR | 875 | 3912 | NR | | | |

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## Melanopic Flux vs. Wavelength




**Melanopic Lumens: 4115.9** **M/P: 0.55**

| 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 | 2662 | NR | 490 | 27227 | NR | 620 | 102725 | NR | 750 | 4998 | NR | 880 | 2294 | NR |
| 365 | 2227 | NR | 495 | 35672 | NR | 625 | 94018 | NR | 755 | 4638 | NR | 885 | 2526 | NR |
| 370 | 2351 | NR | 500 | 45857 | NR | 630 | 85530 | NR | 760 | 4579 | NR | 890 | 2275 | NR |
| 375 | 2487 | NR | 505 | 55772 | NR | 635 | 77990 | NR | 765 | 3952 | NR | 895 | 3151 | NR |
| 380 | 2507 | NR | 510 | 65358 | NR | 640 | 69405 | NR | 770 | 3495 | NR | 900 | 2915 | NR |
| 385 | 2244 | NR | 515 | 73945 | NR | 645 | 62112 | NR | 775 | 3353 | NR | 905 | 2197 | NR |
| 390 | 2299 | NR | 520 | 80747 | NR | 650 | 55830 | NR | 780 | 2778 | NR | 910 | 2048 | NR |
| 395 | 2056 | NR | 525 | 86794 | NR | 655 | 49542 | NR | 785 | 2954 | NR | 915 | 2045 | NR |
| 400 | 2025 | NR | 530 | 91185 | NR | 660 | 43371 | NR | 790 | 2859 | NR | 920 | 3527 | NR |
| 405 | 2414 | NR | 535 | 95640 | NR | 665 | 38089 | NR | 795 | 2638 | NR | 925 | 3296 | NR |
| 410 | 3944 | NR | 540 | 99533 | NR | 670 | 33284 | NR | 800 | 2710 | NR | 930 | 2096 | NR |
| 415 | 7705 | NR | 545 | 104097 | NR | 675 | 28574 | NR | 805 | 2390 | NR | 935 | 2810 | NR |
| 420 | 15513 | NR | 550 | 107982 | NR | 680 | 24590 | NR | 810 | 2947 | NR | 940 | 2304 | NR |
| 425 | 29927 | NR | 555 | 112790 | NR | 685 | 21480 | NR | 815 | 2387 | NR | 945 | 2250 | NR |
| 430 | 51389 | NR | 560 | 118428 | NR | 690 | 18698 | NR | 820 | 2557 | NR | 950 | 3082 | NR |
| 435 | 78905 | NR | 565 | 123208 | NR | 695 | 16372 | NR | 825 | 2693 | NR | 955 | 3173 | NR |
| 440 | 106921 | NR | 570 | 127740 | NR | 700 | 14200 | NR | 830 | 2208 | NR | 960 | 3569 | NR |
| 445 | 118008 | NR | 575 | 131879 | NR | 705 | 12325 | NR | 835 | 2160 | NR | 965 | 1744 | NR |
| 450 | 95722 | NR | 580 | 134489 | NR | 710 | 11122 | NR | 840 | 2493 | NR | 970 | 1283 | NR |
| 455 | 61053 | NR | 585 | 135793 | NR | 715 | 10157 | NR | 845 | 2809 | NR | 975 | 3622 | NR |
| 460 | 41109 | NR | 590 | 135243 | NR | 720 | 8957 | NR | 850 | 2287 | NR | 980 | 3346 | NR |
| 465 | 29591 | NR | 595 | 132928 | NR | 725 | 8084 | NR | 855 | 2564 | NR | 985 | 5229 | NR |
| 470 | 21545 | NR | 600 | 129738 | NR | 730 | 7241 | NR | 860 | 3166 | NR | 990 | 2613 | NR |
| 475 | 18425 | NR | 605 | 124239 | NR | 735 | 6387 | NR | 865 | 2867 | NR | 995 | 3838 | NR |
| 480 | 19056 | NR | 610 | 116984 | NR | 740 | 5430 | NR | 870 | 3742 | NR | 1000 | 2626 | NR |
| 485 | 21740 | NR | 615 | 110543 | NR | 745 | 5284 | NR | 875 | 3912 | NR | | | |

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Peachtree City, GA 30269

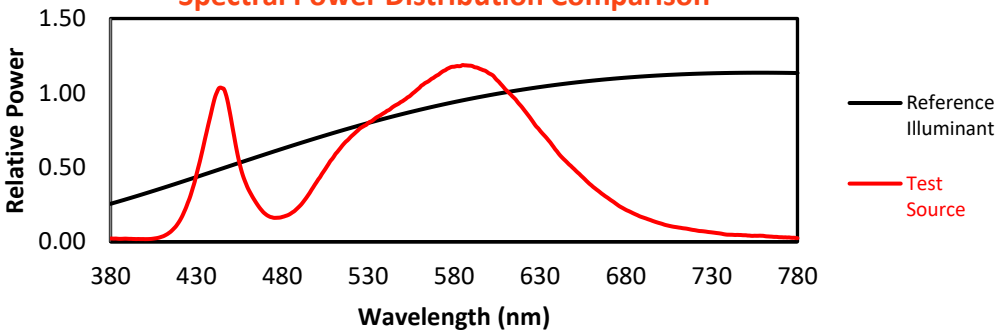
REPORT NUMBER: SP1-1908-441-3-R4

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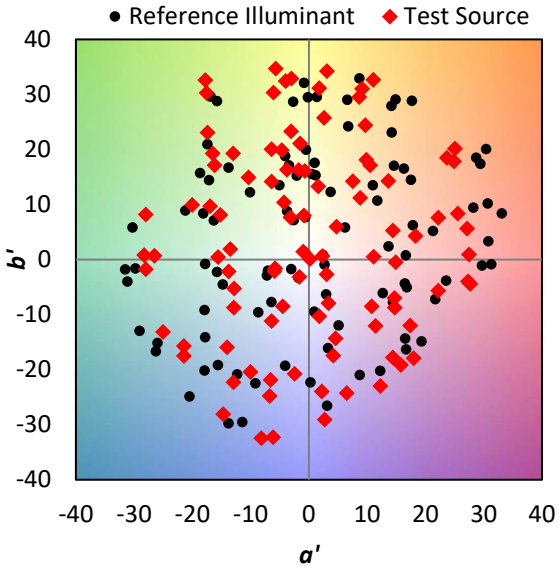
## Summary

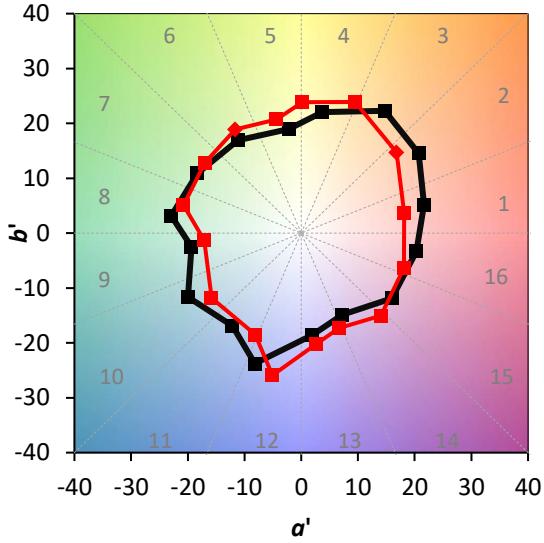
$R_f$ = 75.5
$R_g$ = 94.8
CIE $R_a$ = 72.3
$R_9$ = -33.5

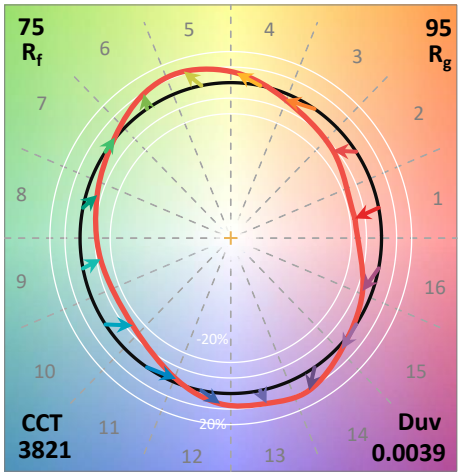
## Spectral Power Distribution Comparison

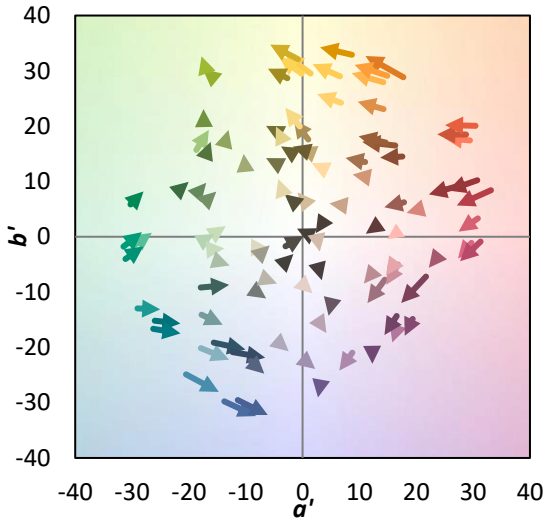



## Color Vector Graphics



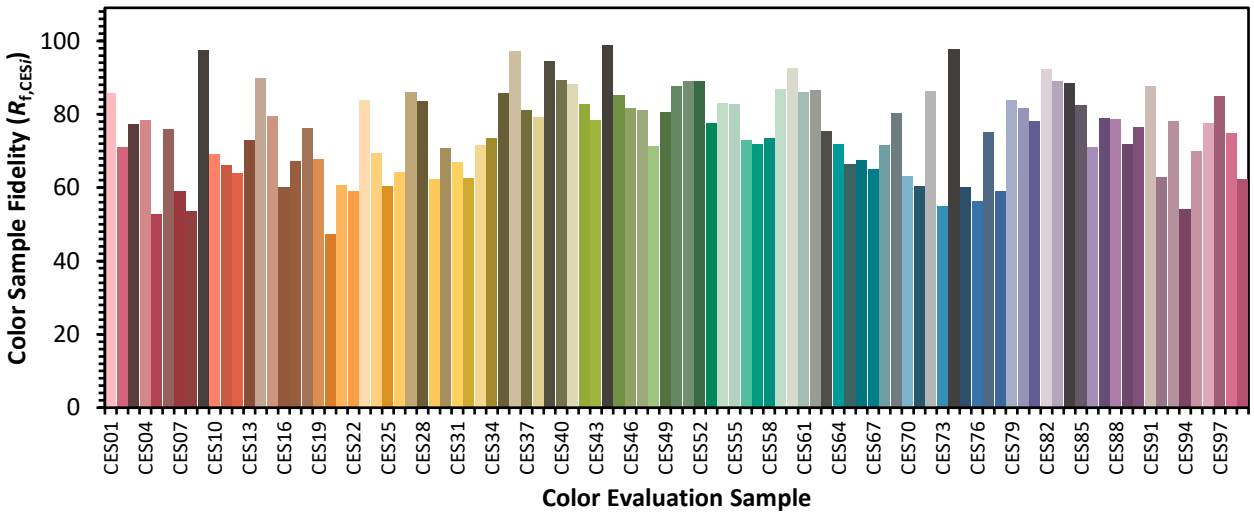
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Peachtree City, GA 30269

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

| | | | |
|---|---|---|---|
| CES01 = 85 | CES26 = 64 | CES51 = 89 | CES76 = 56 |
| CES02 = 61 | CES27 = 86 | CES52 = 89 | CES77 = 75 |
| CES03 = 30 | CES28 = 83 | CES53 = 78 | CES78 = 59 |
| CES04 = 70 | CES29 = 62 | CES54 = 83 | CES79 = 84 |
| CES05 = 47 | CES30 = 71 | CES55 = 83 | CES80 = 82 |
| CES06 = 50 | CES31 = 67 | CES56 = 73 | CES81 = 78 |
| CES07 = 40 | CES32 = 63 | CES57 = 72 | CES82 = 92 |
| CES08 = 39 | CES33 = 72 | CES58 = 73 | CES83 = 89 |
| CES09 = 29 | CES34 = 73 | CES59 = 87 | CES84 = 89 |
| CES10 = 74 | CES35 = 86 | CES60 = 92 | CES85 = 83 |
| CES11 = 57 | CES36 = 97 | CES61 = 86 | CES86 = 71 |
| CES12 = 63 | CES37 = 81 | CES62 = 87 | CES87 = 79 |
| CES13 = 42 | CES38 = 79 | CES63 = 75 | CES88 = 79 |
| CES14 = 74 | CES39 = 94 | CES64 = 72 | CES89 = 72 |
| CES15 = 71 | CES40 = 89 | CES65 = 66 | CES90 = 77 |
| CES16 = 46 | CES41 = 88 | CES66 = 67 | CES91 = 88 |
| CES17 = 49 | CES42 = 83 | CES67 = 65 | CES92 = 63 |
| CES18 = 56 | CES43 = 78 | CES68 = 71 | CES93 = 78 |
| CES19 = 72 | CES44 = 99 | CES69 = 80 | CES94 = 54 |
| CES20 = 65 | CES45 = 85 | CES70 = 63 | CES95 = 70 |
| CES21 = 86 | CES46 = 82 | CES71 = 60 | CES96 = 78 |
| CES22 = 78 | CES47 = 81 | CES72 = 86 | CES97 = 85 |
| CES23 = 92 | CES48 = 71 | CES73 = 55 | CES98 = 75 |
| CES24 = 91 | CES49 = 81 | CES74 = 98 | CES99 = 62 |
| CES25 = 72 | CES50 = 88 | CES75 = 60 | |

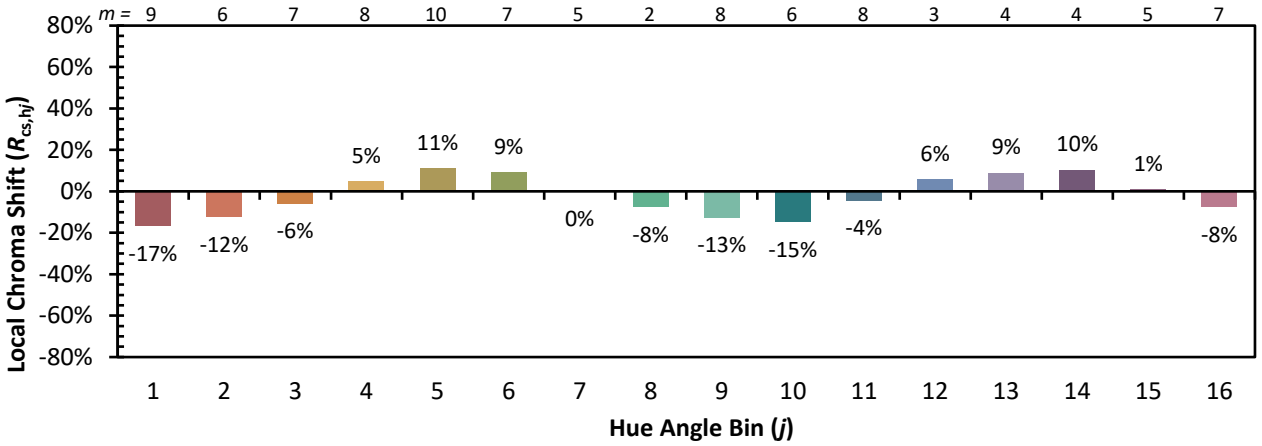


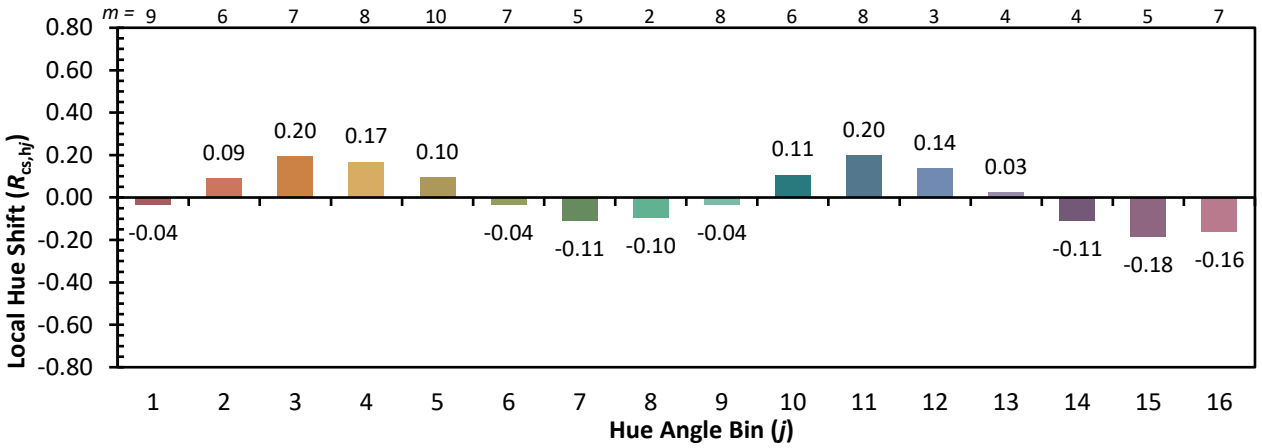
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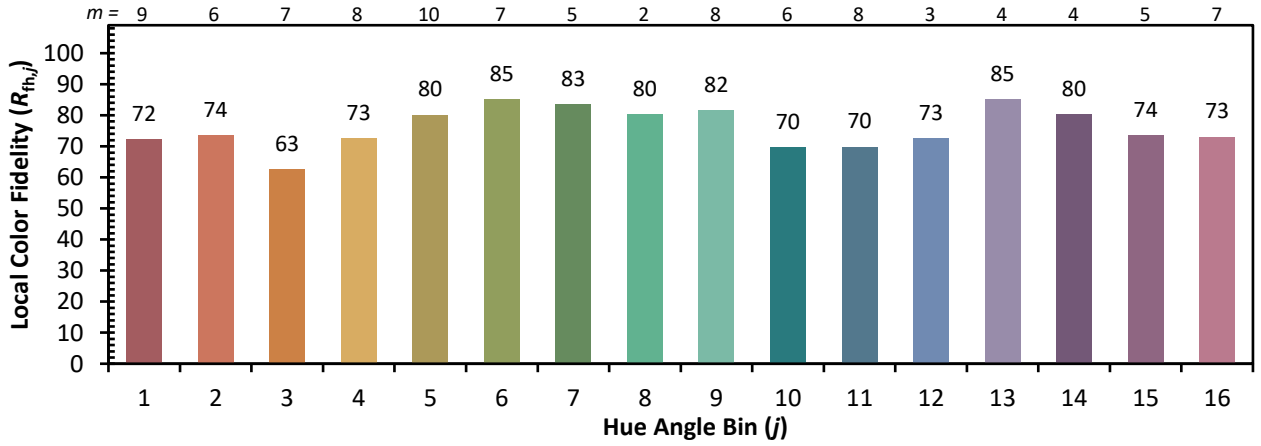
REPORT NUMBER: SP1-1908-441-3-R4

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## Color Rendition by Hue-Angle Bin



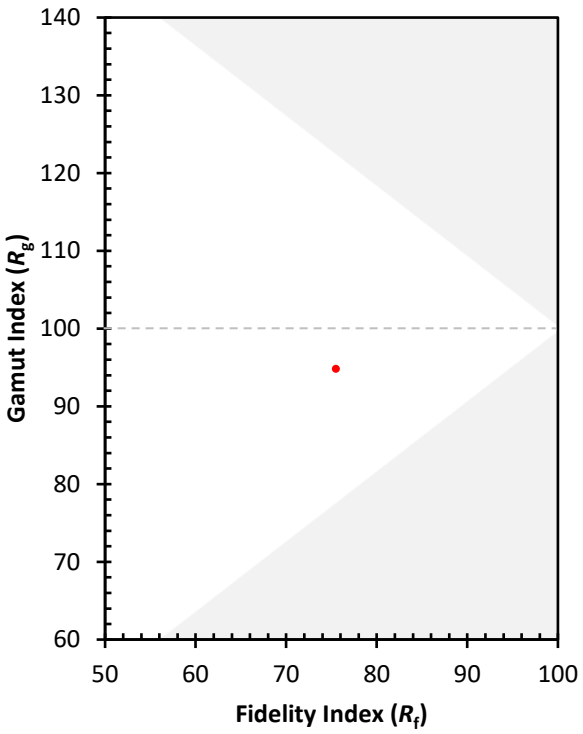



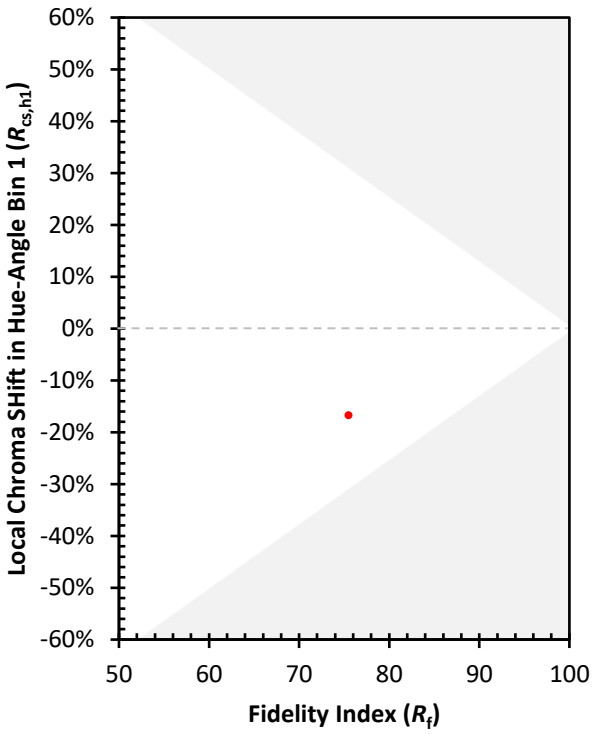
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### Measure Comparisons




(END OF REPORT)