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

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1121 Highway 74 South
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: P1198336

Luminaire Tested: GPC-SB1C-740-U-T3R

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: | P1198336 |
| | TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5) |
| Test Lab: | INNOVATION CENTER |
| Issue Date: | 3/14/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GPC-SB1C-740-U-T3R |
| Description: | GALLEON PEDESTRIAN LUMINAIRE |
| | (1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS |
| Light Source: | - |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 8178 lumens |
| Efficiency: | N/A |
| Efficacy: | 150.3 lumens/watt |
| Luminous Opening: | Rectangular (W 0.5' x L: 0.5' x H: 0') |
| IES Classification: | Type III - Medium |
| BUG Rating: | B1 - U0 - G2 |

| | |
|---|---|
| Input Watts (W): | 54.4 |
| Input Voltage (V): | 120.0 |
| Input Current (Ain): | 0.437 |
| Voltage Rise (V): | NR |
| Power Factor: | 0.993 |
| Total Harmonic Distortion (THDi): | 9.314 |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

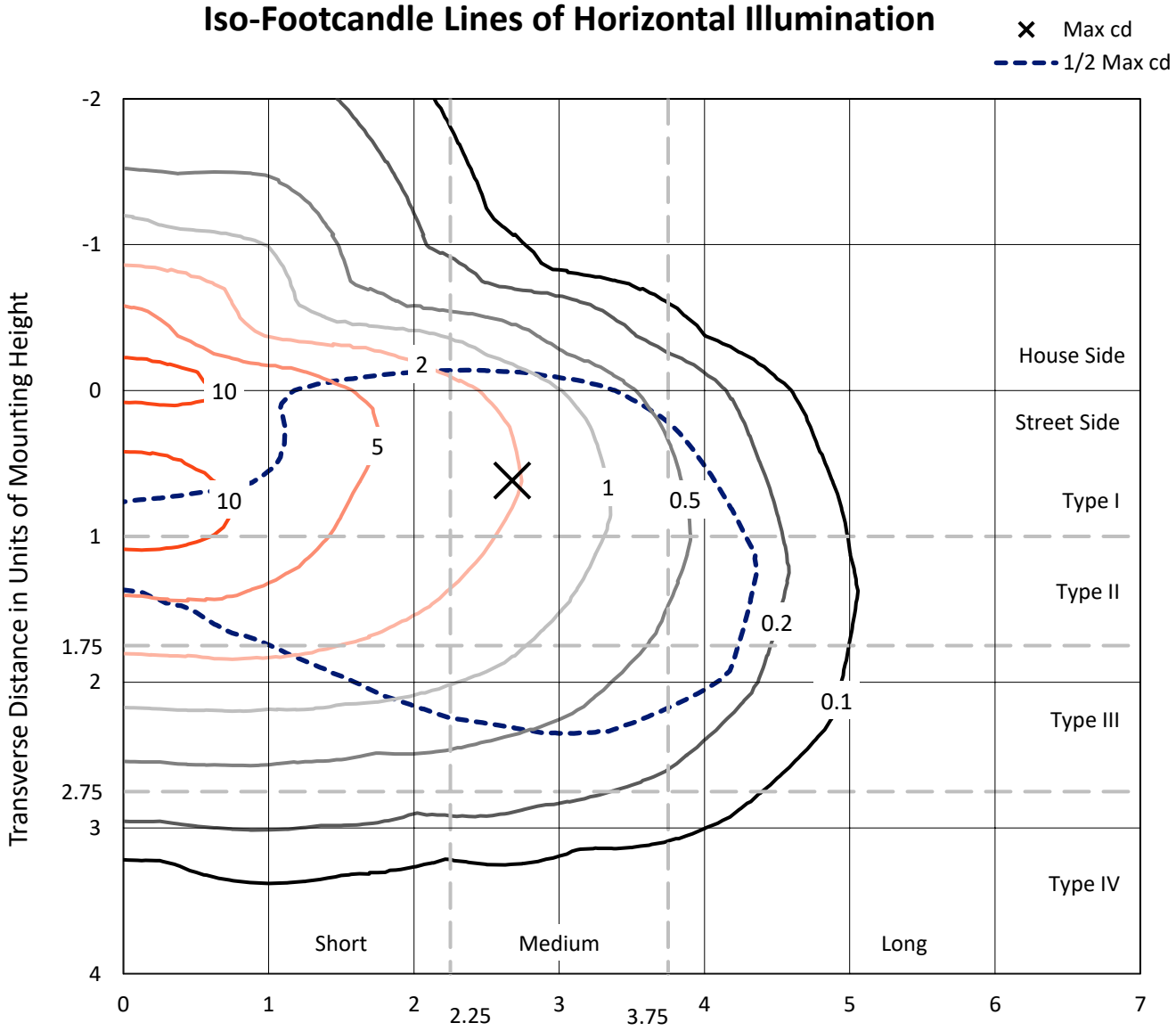


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Scaled Data Report

REPORT NUMBER: P1198336
CATALOG NUMBER: GPC-SB1C-740-U-T3R

## Iso-Footcandle Lines of Horizontal Illumination



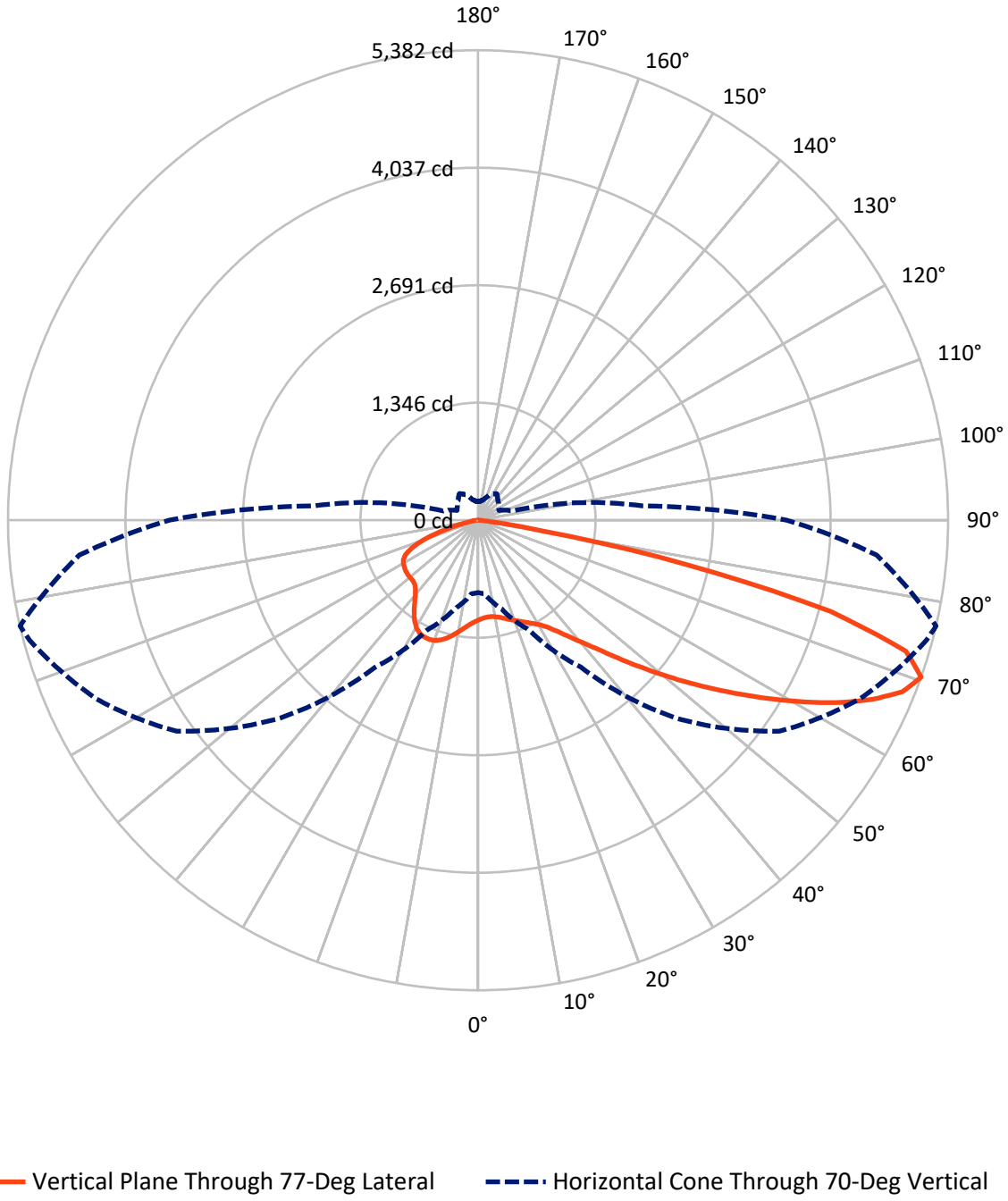

Based on 10 foot mounting height. Maximum calculated value = 13.5 fc
Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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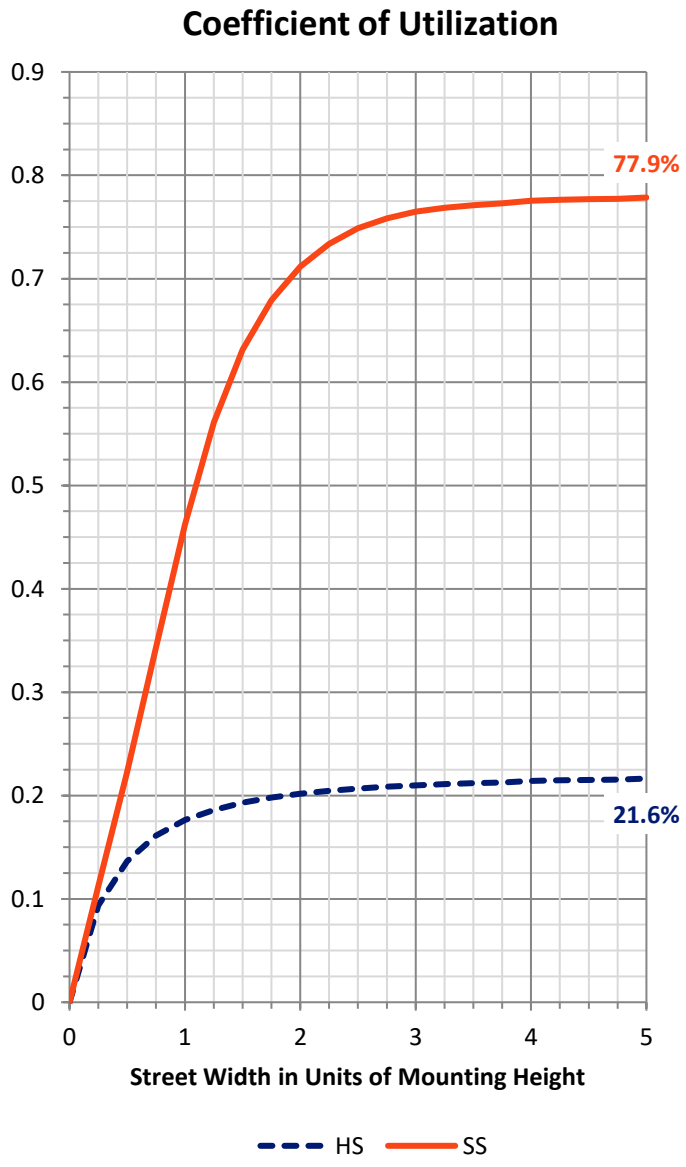
REPORT NUMBER: P1198336
CATALOG NUMBER: GPC-SB1C-740-U-T3R

**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 1790.9 | 0.0 | 1790.9 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| **Street Side** | Lumens | 6387.1 | 0.0 | 6387.1 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| **Total** | Lumens | 8178.0 | 0.0 | 8178.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 108.8 | 1.3 |
| 10°-20° | 314.0 | 3.8 |
| 20°-30° | 537.1 | 6.6 |
| 30°-40° | 863.6 | 10.6 |
| 40°-50° | 1348.4 | 16.5 |
| 50°-60° | 1801.1 | 22.0 |
| 60°-70° | 1919.7 | 23.5 |
| 70°-80° | 1181.7 | 14.5 |
| 80°-90° | 103.6 | 1.3 |
| 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° | 8178.0 | 100.0 |
| 0°-180° | 8178.0 | 100.0 |



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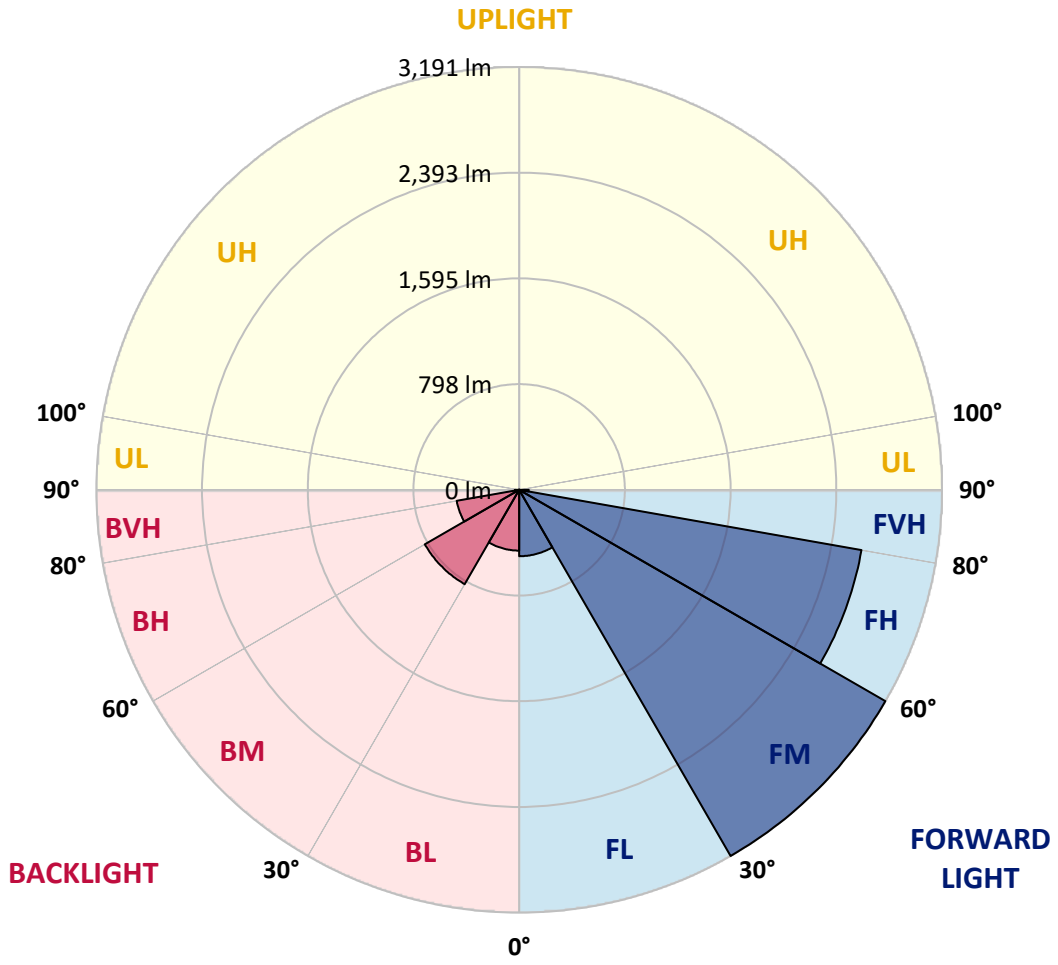
Scaled Data Report

REPORT NUMBER: P1198336
CATALOG NUMBER: GPC-SB1C-740-U-T3R

## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 501.0 | 6.1 | | | |
| FM | (30°-60°) | 3190.9 | 39.0 | | | |
| FH | (60°-80°) | 2622.8 | 32.1 | | | G2/5000 |
| FVH | (80°-90°) | 72.4 | 0.9 | | | G1/100 |
| BL | (0°-30°) | 458.9 | 5.6 | B1/500 | | |
| BM | (30°-60°) | 822.2 | 10.1 | B1/1000 | | |
| BH | (60°-80°) | 478.6 | 5.9 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 31.1 | 0.4 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B1-U0-G2**
Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1140.9 | 1140.9 | 1140.9 | 1140.9 | 1140.9 | 1140.9 | 1140.9 | 1140.9 | 1140.9 | *1140.9* | 1140.9 |
| 2.5° | 1051.7 | 1051.3 | 1056.7 | 1058.4 | 1068.4 | 1075.6 | 1089.0 | 1103.2 | 1121.6 | *1123.7* | 1135.0 |
| 5° | 991.0 | 991.0 | 997.2 | 1003.9 | 1016.9 | 1031.2 | 1051.7 | 1076.4 | 1108.2 | *1113.3* | 1141.3 |
| 7.5° | 939.4 | 942.8 | 948.2 | 961.2 | 976.3 | 996.8 | 1028.2 | 1063.4 | 1105.3 | *1113.3* | 1158.5 |
| 10° | 898.0 | 901.8 | 908.5 | 918.9 | 941.5 | 970.0 | 1011.1 | 1056.3 | 1112.4 | *1125.0* | 1183.6 |
| 12.5° | 885.0 | 888.8 | 892.5 | 900.5 | 921.4 | 954.9 | 1003.9 | 1059.7 | 1129.6 | *1142.2* | 1218.0 |
| 15° | 915.2 | 919.8 | 916.8 | 914.7 | 925.6 | 956.2 | 1007.3 | 1071.8 | 1151.0 | *1169.0* | 1260.3 |
| 17.5° | 984.7 | 986.4 | 979.7 | 960.0 | 958.3 | 974.6 | 1023.2 | 1088.6 | 1177.8 | *1197.4* | 1303.0 |
| 20° | 1096.9 | 1094.0 | 1080.2 | 1041.2 | 1019.0 | 1015.7 | 1050.4 | 1113.7 | 1205.4 | *1226.3* | 1349.1 |
| 22.5° | 1249.4 | 1246.0 | 1218.4 | 1156.8 | 1107.4 | 1074.7 | 1089.8 | 1146.4 | 1236.4 | *1259.9* | 1393.9 |
| 25° | 1439.5 | 1434.9 | 1394.3 | 1310.5 | 1233.9 | 1153.1 | 1143.4 | 1189.5 | 1274.5 | *1296.3* | 1440.8 |
| 27.5° | 1661.5 | 1657.7 | 1613.8 | 1503.2 | 1392.6 | 1260.3 | 1210.0 | 1240.2 | 1314.3 | *1339.0* | 1493.6 |
| 30° | 1900.3 | 1911.1 | 1833.2 | 1714.3 | 1574.4 | 1400.2 | 1299.6 | 1302.6 | 1365.8 | *1388.0* | 1557.6 |
| 32.5° | 2180.9 | 2199.7 | 2105.9 | 1955.1 | 1764.1 | 1552.2 | 1412.7 | 1389.7 | 1440.8 | *1459.2* | 1638.5 |
| 35° | 2459.0 | 2480.3 | 2402.4 | 2235.7 | 2015.9 | 1731.5 | 1530.8 | 1489.8 | 1540.5 | *1560.6* | 1745.7 |
| 37.5° | 2699.4 | 2727.9 | 2687.7 | 2542.7 | 2285.2 | 1947.6 | 1685.0 | 1607.5 | 1663.2 | *1688.3* | 1889.8 |
| 40° | 2889.1 | 2932.7 | 2929.7 | 2839.3 | 2602.6 | 2209.8 | 1880.6 | 1752.8 | 1815.6 | *1842.9* | 2064.4 |
| 42.5° | 3043.3 | 3080.9 | 3113.6 | 3109.0 | 2933.9 | 2507.6 | 2110.5 | 1941.7 | 1989.5 | *2020.9* | 2260.9 |
| 45° | 3149.6 | 3189.8 | 3260.2 | 3336.0 | 3252.7 | 2826.3 | 2374.0 | 2165.8 | 2209.4 | *2256.7* | 2495.0 |
| 47.5° | 3244.7 | 3290.4 | 3381.7 | 3501.9 | 3523.2 | 3146.3 | 2662.5 | 2426.7 | 2466.5 | *2515.5* | 2730.0 |
| 50° | 3253.1 | 3292.5 | 3434.0 | 3604.5 | 3715.5 | 3453.7 | 2972.5 | 2719.5 | 2756.8 | *2809.1* | 2981.7 |
| 52.5° | 3050.8 | 3112.8 | 3359.9 | 3601.6 | 3803.9 | 3710.9 | 3280.3 | 3024.0 | 3065.9 | *3128.7* | 3242.2 |
| 55° | 2368.1 | 2459.0 | 3142.5 | 3489.3 | 3772.4 | 3877.2 | 3573.1 | 3347.7 | 3401.4 | *3467.1* | 3504.4 |
| 57.5° | 2039.7 | 2079.5 | 2494.6 | 3284.9 | 3629.2 | 3920.3 | 3820.2 | 3674.9 | 3761.1 | *3833.2* | 3781.7 |
| 60° | 1833.2 | 1866.3 | 2111.8 | 2967.0 | 3440.7 | 3852.0 | 4011.2 | 3979.8 | 4128.9 | *4214.7* | 4065.2 |
| 62.5° | 1612.1 | 1643.5 | 1866.7 | 2477.4 | 3199.5 | 3738.5 | 4131.8 | 4261.2 | 4505.8 | *4599.6* | 4332.4 |
| 65° | 1392.6 | 1419.4 | 1633.5 | 2081.6 | 2892.9 | 3625.0 | 4194.2 | 4504.6 | 4854.7 | *4951.9* | 4554.4 |
| 67.5° | 1148.0 | 1170.2 | 1372.5 | 1756.2 | 2520.1 | 3469.6 | 4225.2 | 4696.0 | 5158.4 | *5241.7* | 4664.1 |
| 70° | *828.5* | *845.6* | *1054.6* | *1388.9* | *2052.3* | *3202.4* | *4212.6* | *4831.7* | *5315.8* | *5382.4* | *4581.2* |
| 72.5° | 391.6 | 407.1 | 652.5 | 901.8 | 1449.6 | 2682.2 | 3958.4 | 4724.0 | 5155.9 | *5122.8* | 4073.6 |
| 75° | 209.0 | 222.4 | 374.9 | 494.6 | 765.6 | 1838.7 | 3239.3 | 4069.4 | 4329.5 | *4168.7* | 3010.6 |
| 77.5° | 141.6 | 152.0 | 232.0 | 297.0 | 349.7 | 872.9 | 2082.0 | 2817.5 | 2710.7 | *2445.2* | 1507.8 |
| 80° | 112.2 | 123.1 | 190.2 | 201.0 | 169.2 | 315.4 | 860.3 | 1304.3 | 936.9 | *749.3* | 428.9 |
| 82.5° | 86.3 | 98.4 | 160.0 | 145.8 | 92.1 | 129.4 | 250.5 | 412.6 | 240.0 | *182.6* | 103.9 |
| 85° | 52.8 | 65.8 | 125.7 | 93.0 | 51.9 | 59.1 | 85.0 | 114.8 | 73.3 | *61.1* | 37.3 |
| 87.5° | 26.8 | 37.7 | 63.7 | 33.9 | 23.5 | 13.8 | 22.6 | 22.6 | 19.3 | *16.8* | 9.6 |
| 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: P1198336
CATALOG NUMBER: GPC-SB1C-740-U-T3R

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1140.9 | 1140.9 | 1140.9 | 1140.9 | 1140.9 | 1140.9 | 1140.9 | 1140.9 | 1140.9 | 1140.9 | 1140.9 |
| 2.5° | 1145.1 | 1153.5 | 1167.7 | 1181.1 | 1191.6 | 1201.6 | 1211.7 | 1217.1 | 1218.8 | 1225.5 | 1229.3 |
| 5° | 1158.5 | 1174.0 | 1201.6 | 1227.6 | 1243.9 | 1254.0 | 1261.1 | 1265.3 | 1266.1 | 1268.2 | 1271.6 |
| 7.5° | 1183.2 | 1207.9 | 1246.5 | 1272.4 | 1284.6 | 1283.7 | 1280.8 | 1270.3 | 1266.1 | 1262.4 | 1263.2 |
| 10° | 1218.0 | 1250.6 | 1298.0 | 1316.0 | 1308.4 | 1288.3 | 1262.4 | 1231.8 | 1217.6 | 1203.7 | 1199.5 |
| 12.5° | 1261.1 | 1302.6 | 1349.1 | 1348.2 | 1311.0 | 1259.4 | 1199.1 | 1152.2 | 1122.5 | 1101.1 | 1096.1 |
| 15° | 1313.5 | 1361.2 | 1396.8 | 1368.3 | 1286.7 | 1194.1 | 1105.7 | 1044.6 | 1017.8 | 994.3 | 991.8 |
| 17.5° | 1367.5 | 1418.6 | 1434.9 | 1362.1 | 1225.5 | 1097.3 | 997.2 | 949.1 | 922.7 | 910.1 | 913.9 |
| 20° | 1420.3 | 1470.9 | 1457.5 | 1326.0 | 1132.5 | 987.6 | 898.4 | 872.0 | 866.6 | 869.5 | 868.2 |
| 22.5° | 1476.0 | 1521.2 | 1462.2 | 1256.5 | 1014.0 | 875.4 | 826.4 | 827.2 | 839.3 | 848.1 | 850.2 |
| 25° | 1532.9 | 1563.5 | 1450.0 | 1156.0 | 886.7 | 792.9 | 780.7 | 794.1 | 818.0 | 835.2 | 839.8 |
| 27.5° | 1587.8 | 1601.2 | 1423.6 | 1031.6 | 777.4 | 733.8 | 735.9 | 763.5 | 799.6 | 823.4 | 829.3 |
| 30° | 1649.8 | 1634.7 | 1372.9 | 891.7 | 701.5 | 683.1 | 700.7 | 733.0 | 769.0 | 790.3 | 795.4 |
| 32.5° | 1719.7 | 1663.6 | 1292.5 | 762.3 | 647.9 | 642.5 | 671.4 | 692.3 | 708.2 | 714.5 | 717.9 |
| 35° | 1806.9 | 1704.2 | 1189.5 | 671.4 | 599.8 | 612.8 | 640.4 | 629.9 | 623.6 | 620.3 | 623.6 |
| 37.5° | 1919.9 | 1759.1 | 1068.9 | 612.3 | 560.8 | 591.4 | 602.7 | 570.0 | 545.3 | 533.2 | 536.1 |
| 40° | 2056.1 | 1839.5 | 952.8 | 566.7 | 536.1 | 573.0 | 553.3 | 513.9 | 482.5 | 465.3 | 466.6 |
| 42.5° | 2207.3 | 1923.7 | 855.3 | 532.3 | 522.3 | 557.9 | 516.8 | 469.9 | 419.3 | 413.8 | 419.3 |
| 45° | 2366.0 | 2010.4 | 788.7 | 506.0 | 515.6 | 544.9 | 495.9 | 420.1 | 384.1 | 406.3 | 418.0 |
| 47.5° | 2524.7 | 2090.0 | 748.5 | 486.3 | 512.2 | 530.2 | 477.5 | 392.4 | 366.9 | 399.1 | 414.2 |
| 50° | 2701.5 | 2161.2 | 730.4 | 472.0 | 508.5 | 524.4 | 449.8 | 385.3 | 348.9 | 370.2 | 386.2 |
| 52.5° | 2877.0 | 2216.5 | 717.0 | 457.8 | 503.0 | 519.8 | 436.4 | 377.0 | 327.1 | 328.4 | 337.2 |
| 55° | 3052.0 | 2252.5 | 702.4 | 438.9 | 490.9 | 509.7 | 435.2 | 367.7 | 310.8 | 304.9 | 309.1 |
| 57.5° | 3238.8 | 2273.0 | 684.4 | 418.0 | 469.9 | 484.2 | 433.9 | 360.6 | 305.7 | 296.1 | 297.4 |
| 60° | 3429.0 | 2303.2 | 660.9 | 392.4 | 441.9 | 453.6 | 431.0 | 358.1 | 302.8 | 286.5 | 287.7 |
| 62.5° | 3599.5 | 2313.6 | 632.9 | 368.2 | 405.9 | 423.4 | 424.7 | 356.0 | 294.9 | 266.8 | 266.8 |
| 65° | 3711.3 | 2268.4 | 583.9 | 340.5 | 366.9 | 392.4 | 412.6 | 348.9 | 280.6 | 252.6 | 252.6 |
| 67.5° | 3706.7 | 2139.4 | 507.2 | 304.9 | 329.2 | 358.1 | 395.0 | 336.7 | 263.4 | 235.0 | 236.2 |
| 70° | *3534.1* | *1884.8* | *410.0* | *263.4* | *287.7* | *321.2* | *372.3* | *318.7* | *242.9* | *215.7* | *218.2* |
| 72.5° | 3031.1 | 1475.1 | 297.8 | 214.9 | 239.6 | 283.1 | 343.0 | 297.0 | 222.0 | 198.5 | 197.3 |
| 75° | 2165.4 | 933.6 | 201.9 | 165.0 | 186.4 | 240.0 | 306.6 | 271.4 | 202.7 | 199.4 | 188.1 |
| 77.5° | 1106.1 | 446.1 | 133.6 | 120.6 | 129.8 | 189.3 | 257.6 | 242.5 | 205.6 | 164.6 | 146.6 |
| 80° | 359.8 | 164.6 | 84.2 | 82.1 | 86.3 | 126.1 | 199.4 | 198.9 | 155.8 | 111.8 | 98.8 |
| 82.5° | 114.8 | 70.8 | 54.9 | 52.8 | 50.7 | 79.2 | 139.1 | 157.5 | 105.1 | 70.8 | 70.4 |
| 85° | 45.7 | 42.3 | 32.3 | 29.7 | 21.4 | 37.3 | 72.9 | 104.7 | 78.3 | 51.1 | 52.4 |
| 87.5° | 16.8 | 16.8 | 8.8 | 6.3 | 4.6 | 12.6 | 19.7 | 31.4 | 44.8 | 26.4 | 26.0 |
| 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

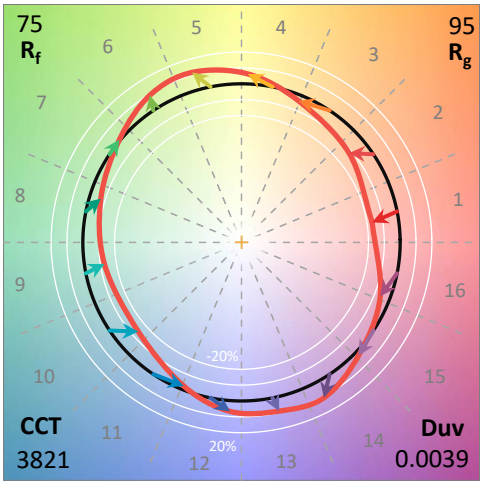
| | |
|---|---|
| Test Method: | LM-79-2008 |
| Report Number: | SP1-1908-441-3-R4 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 - 76IN SPHERE |
| Measurement Geometry: | 4π |
| Issue Date: | 11/05/2024 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| 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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1121 Highway 74 South
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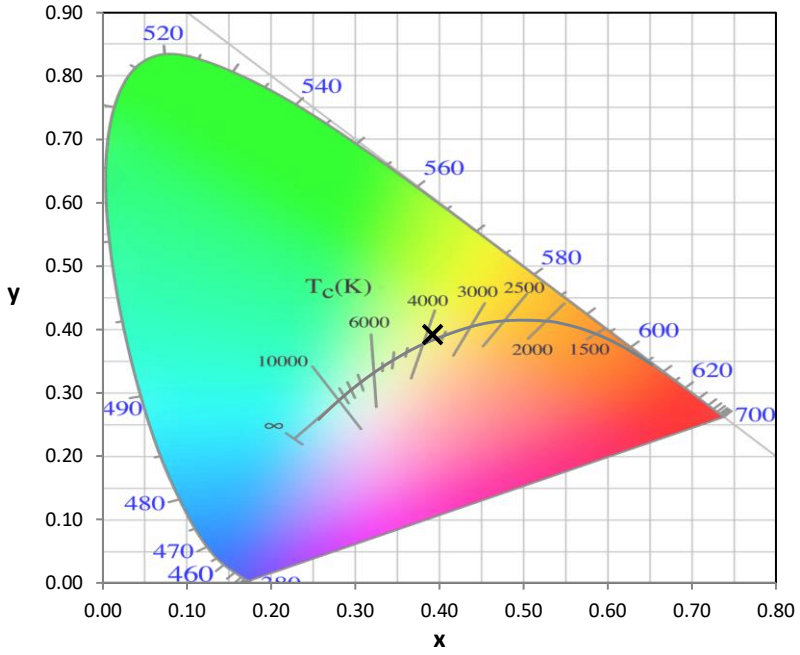
REPORT NUMBER: SP1-1908-441-3-R4

| 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 |

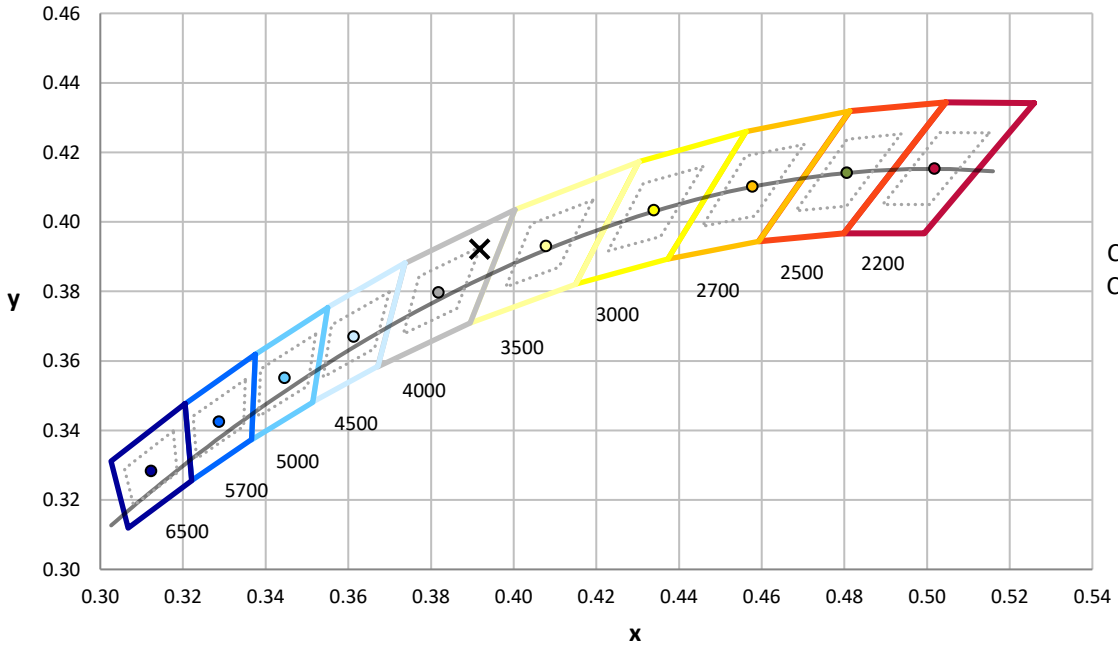
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REPORT NUMBER: SP1-1908-441-3-R4

## CIE 1931 Chromaticity Diagram




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



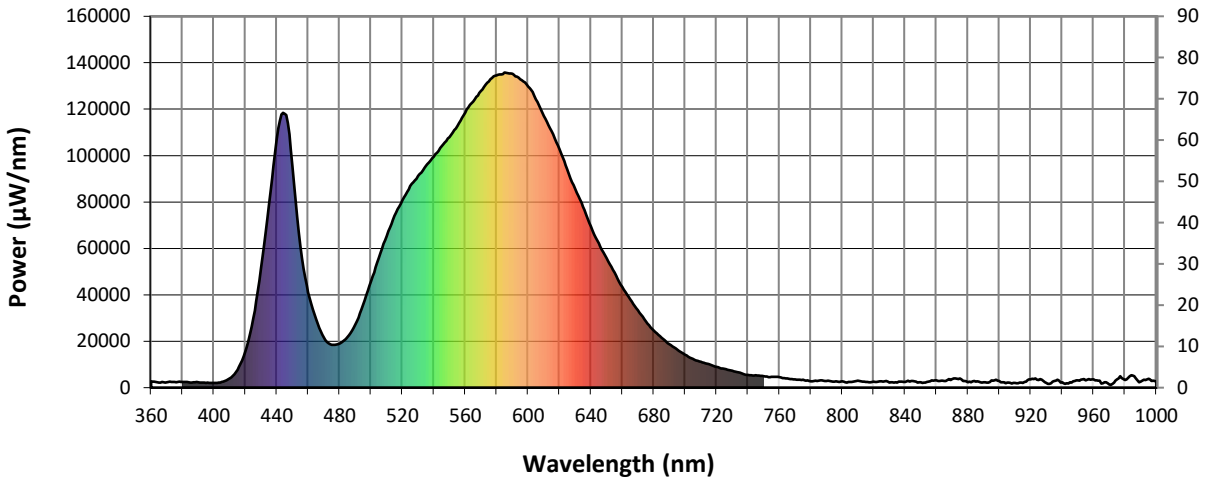

CCT = 3821K
CIE x = 0.3918
CIE y = 0.3921
Duv = 0.0039

Point lies inside the ANSI 4000K 7-step quadrangle

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## Photopic Flux vs. Wavelength



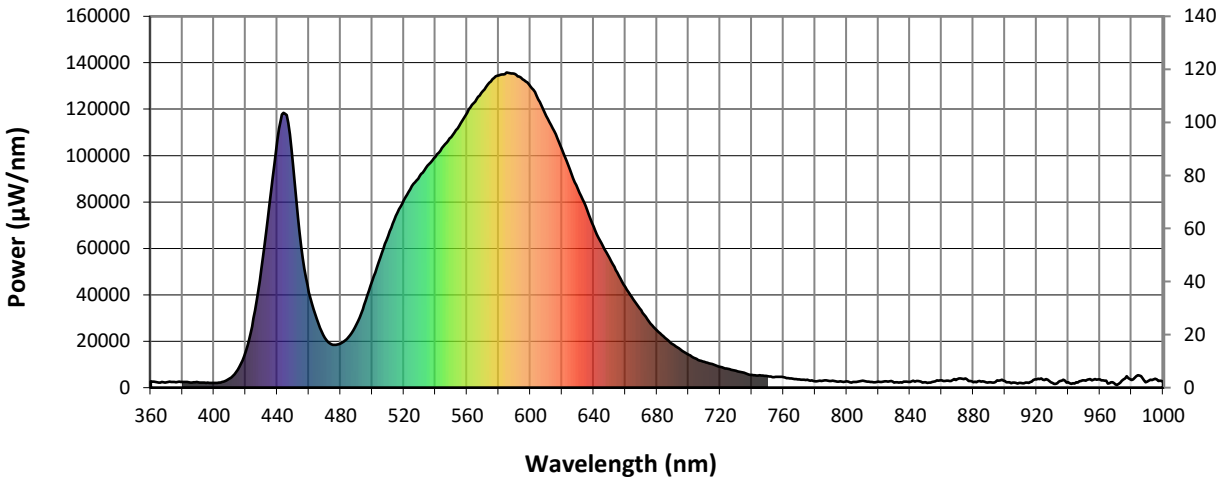

######

| 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



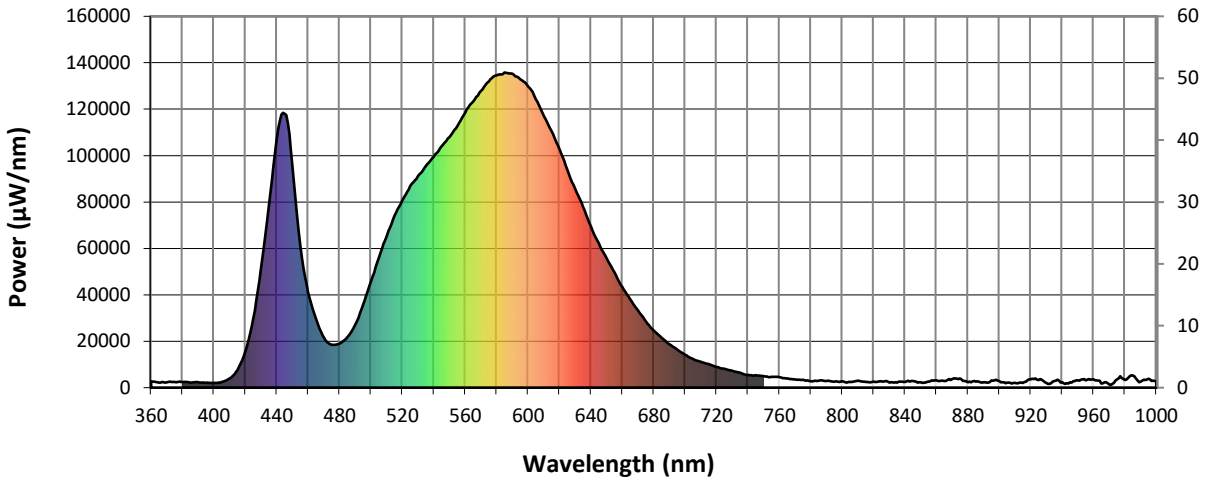

**Scotopic Lumens: 10930.8** **S/P: 1.47**

| 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

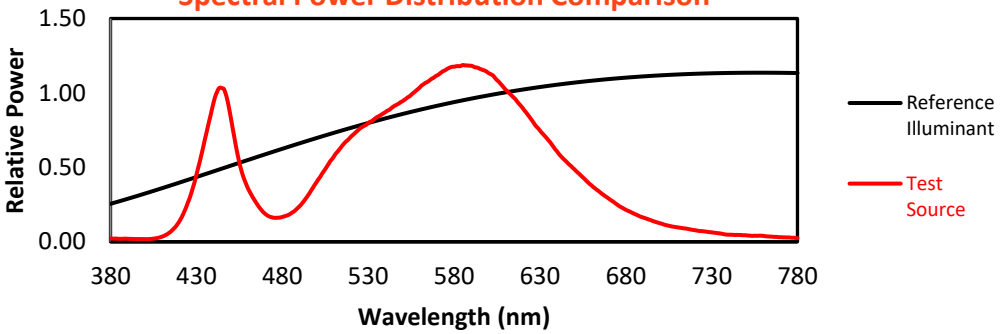
REPORT NUMBER: SP1-1908-441-3-R4

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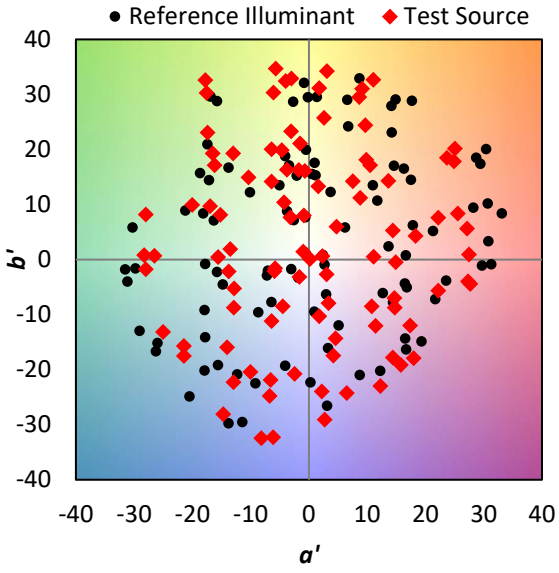
## Summary

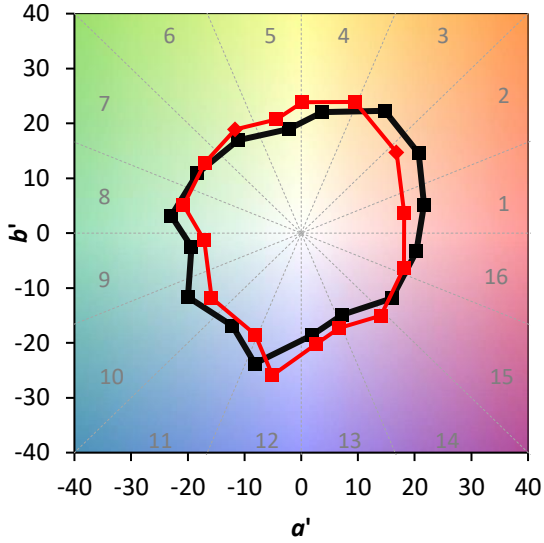
$R_f$ = 75.5
$R_g$ = 94.8
CIE $R_a$ = 72.3
$R_9$ = -33.5

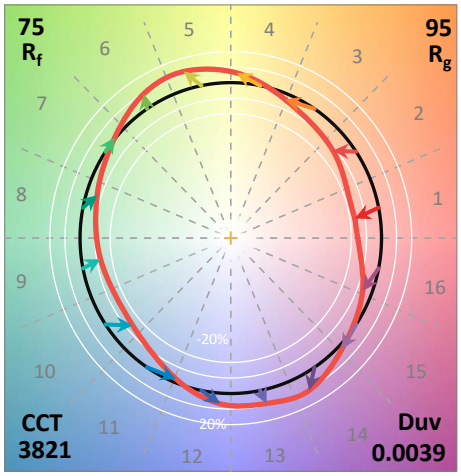
## Spectral Power Distribution Comparison

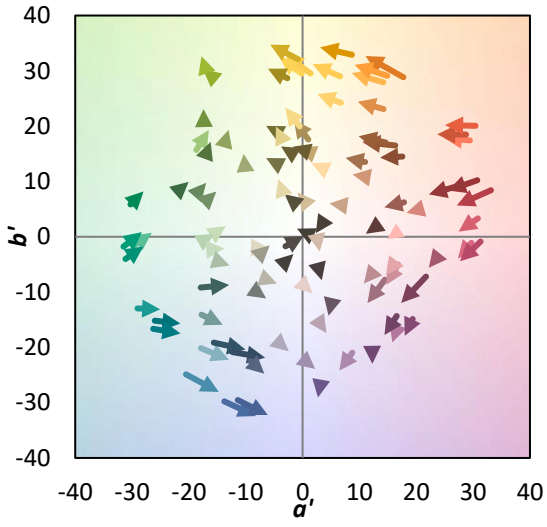



## Color Vector Graphics



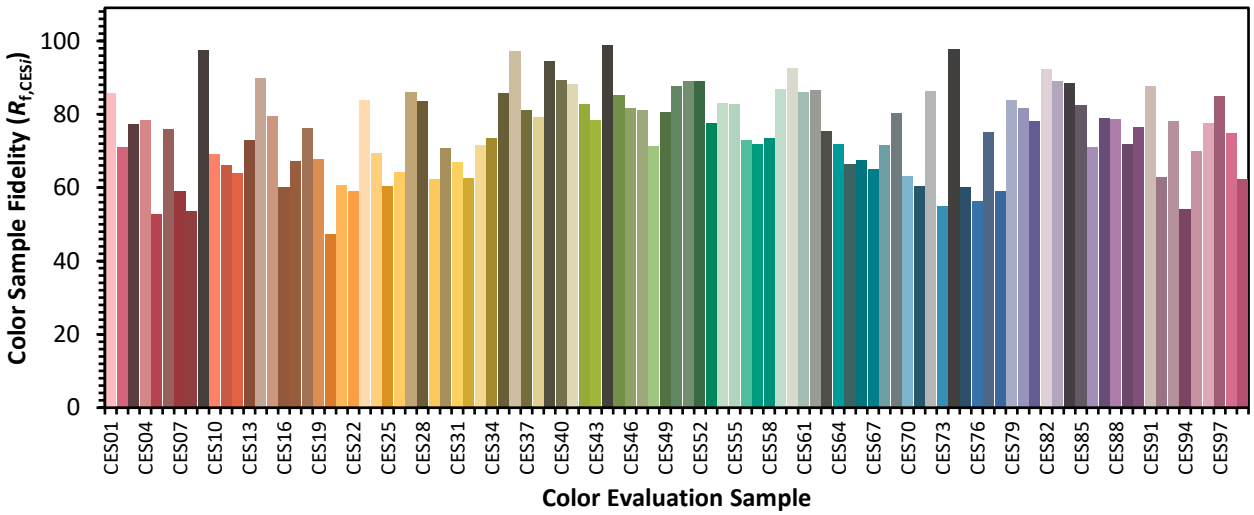
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Peachtree City, GA 30269

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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 | |

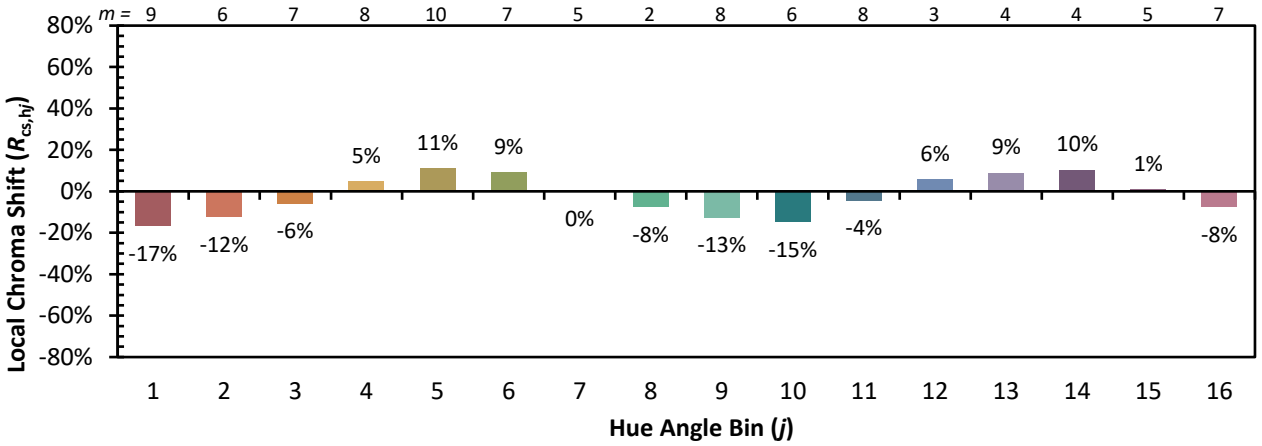


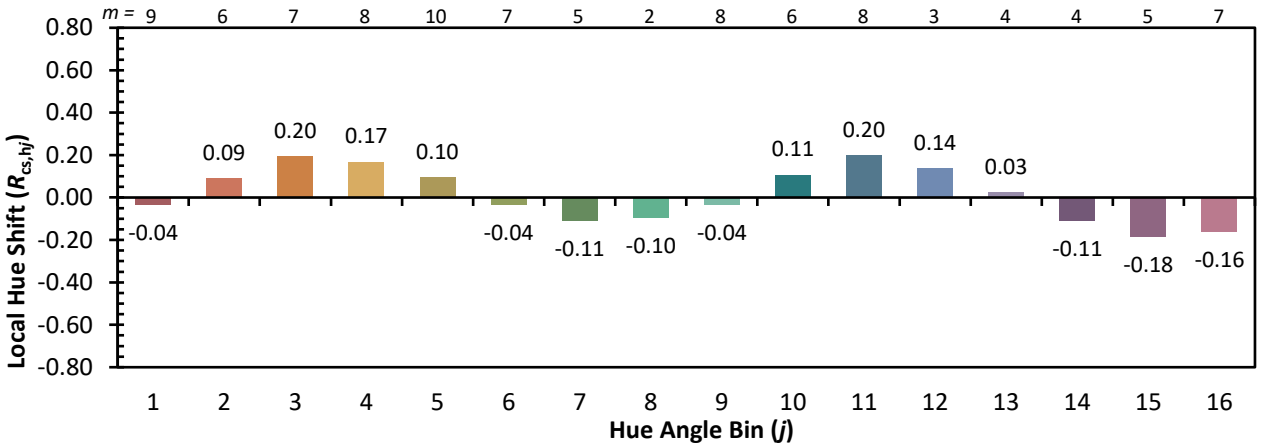
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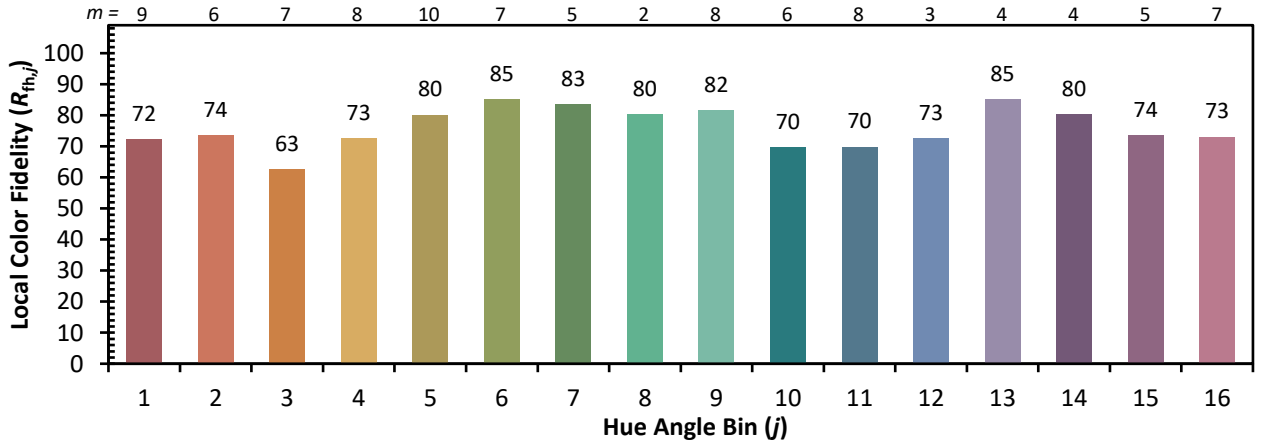
REPORT NUMBER: SP1-1908-441-3-R4

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## Color Rendition by Hue-Angle Bin



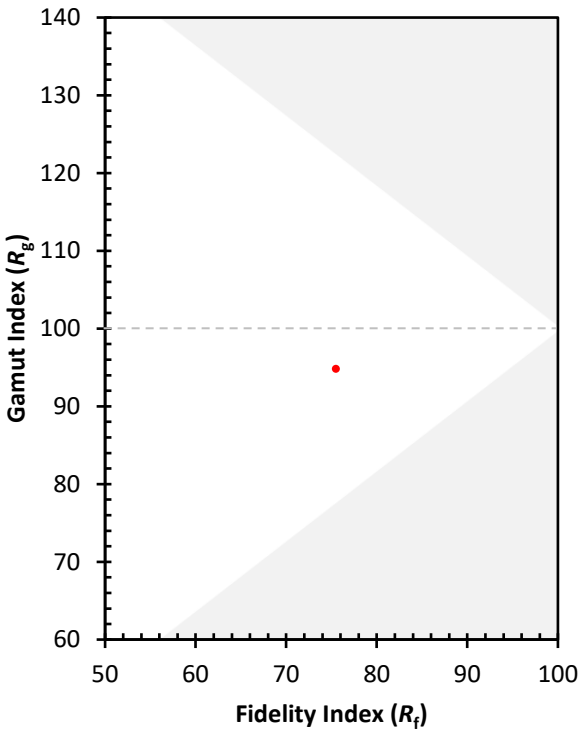



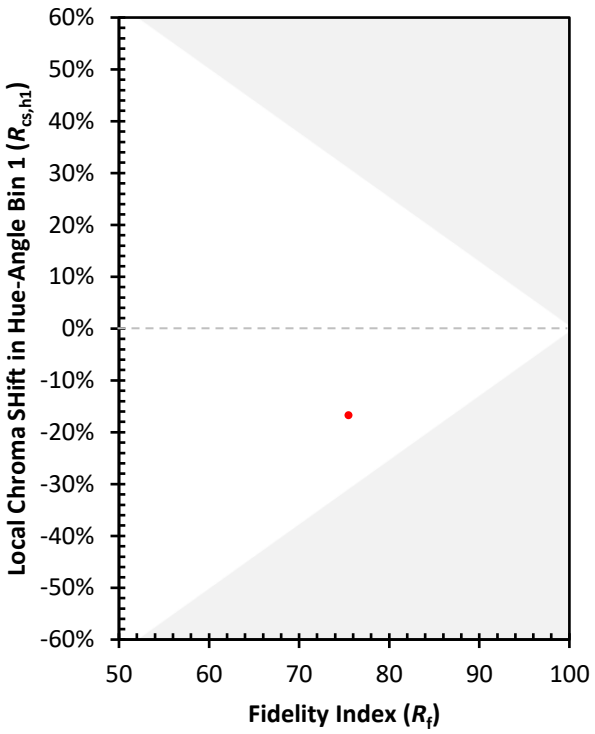
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### Measure Comparisons




(END OF REPORT)