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

Scaled data based on original data using

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P1366760

Luminaire Tested: **GSS-SB1B-935-U-T3R**

Issue Date: 02/18/2026

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Report Generated By 670245763

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

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P1366760 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 02/18/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB1B-935-U-T3R |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 1SQUARE 40W 90CRI 3500K FIXTURE w/ TYPE III ROADWAY DISTRIBUTION OPTIC |
| Light Source: | (26) 3500K CCT, 90 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

Luminaire Equipment:

| Sample No. | Condition | Description |
|---|---|---|
| a | good | reflector |
| b | good | lens |
| c | good | housing |
| d | good | cord |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 3554.4 lumens |
| Efficiency: | N/A |
| Efficacy: | 88.9 lumens/watt |
| Luminous Opening: | Rectangular (W 0.5' x L: 0.5' x H: 0') |
| IES Classification: | Type III - Medium |
| BUG Rating: | B1 - U0 - G1 |

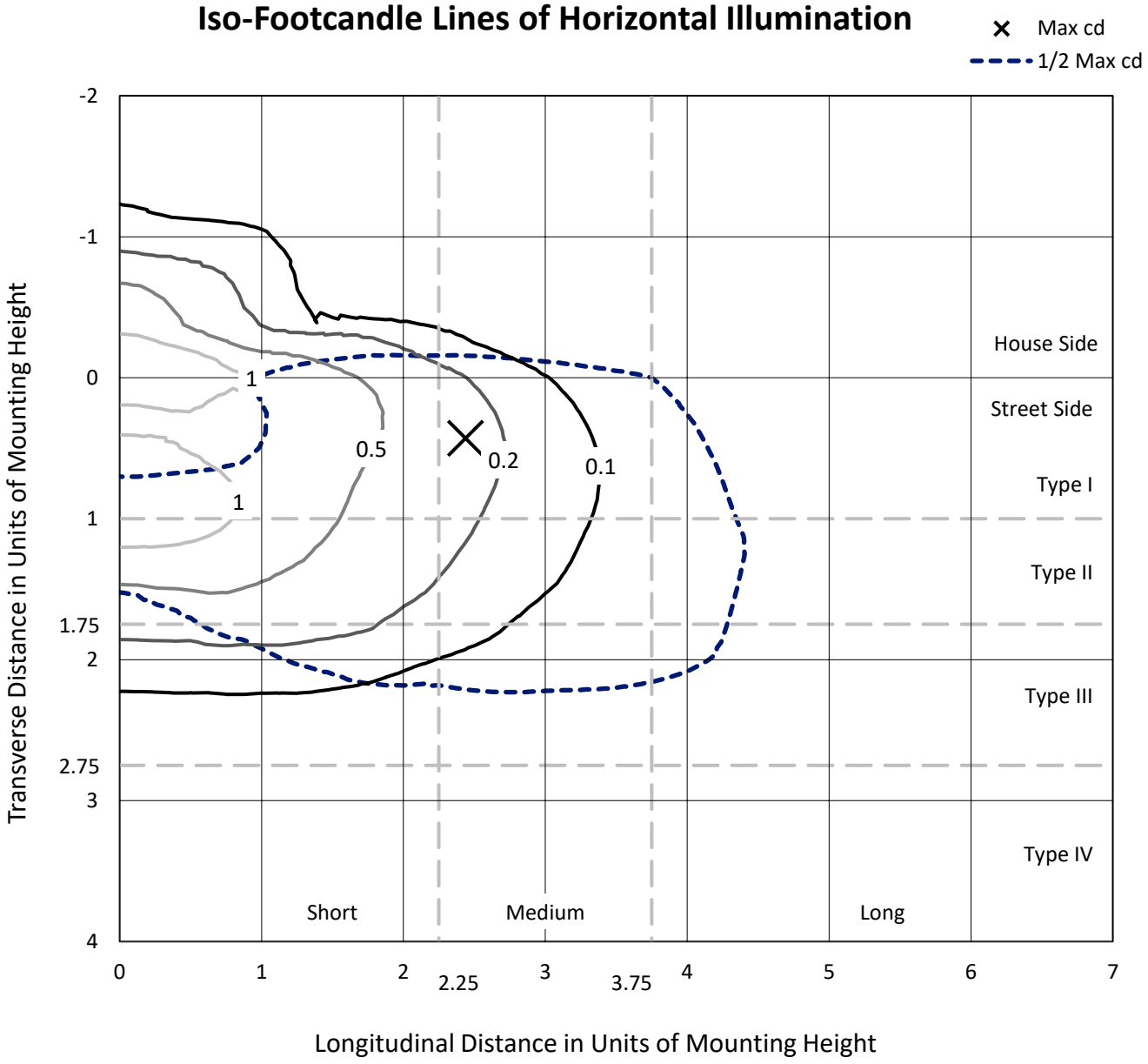
| | |
|---|---|
| Input Watts (W): | 40 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 5.3% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

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Scaled Data Report

REPORT NUMBER: P1366760
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## Iso-Footcandle Lines of Horizontal Illumination



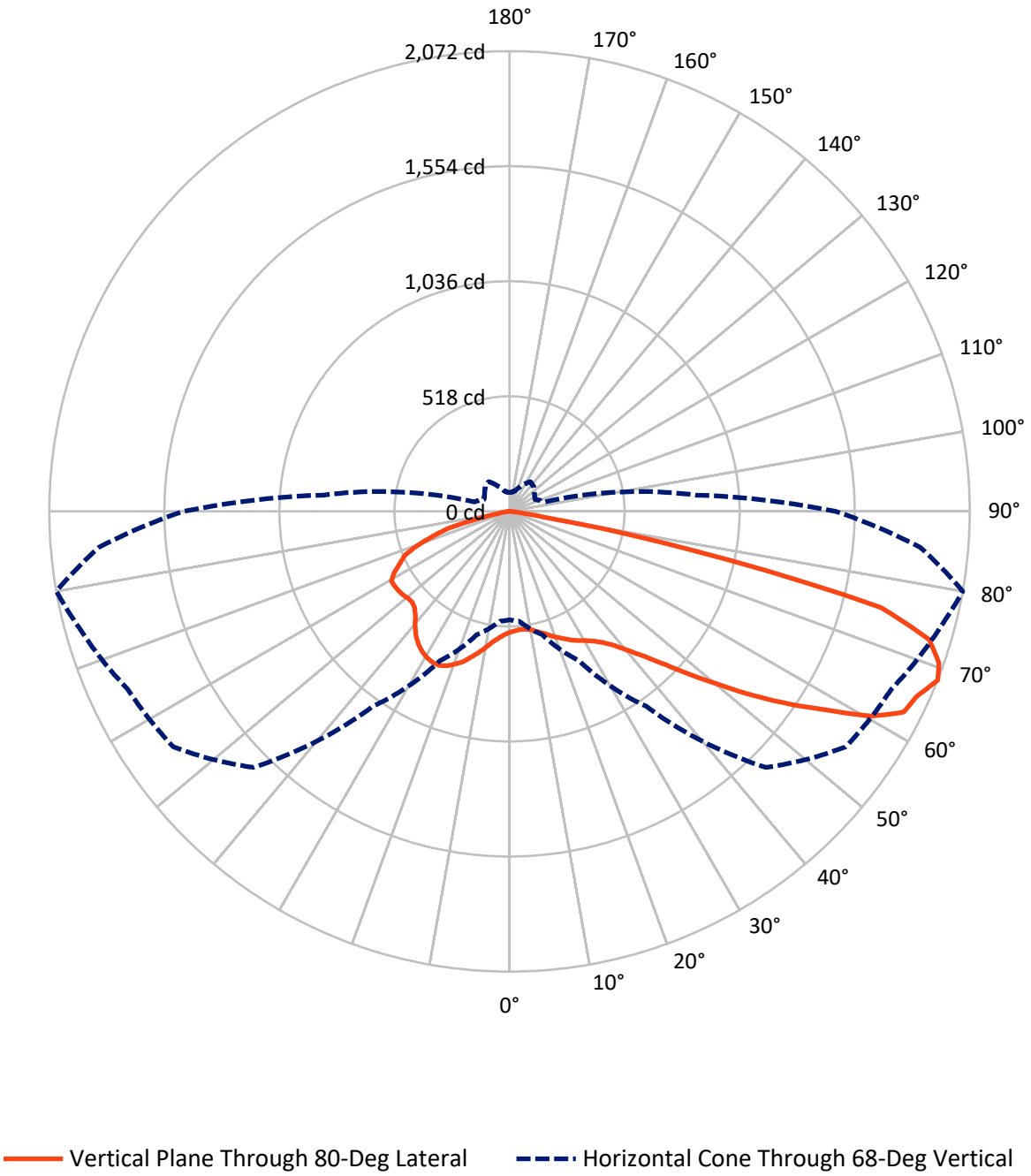

Based on 20 foot mounting height. Maximum calculated value = 1.5 fc
Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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Scaled Data Report

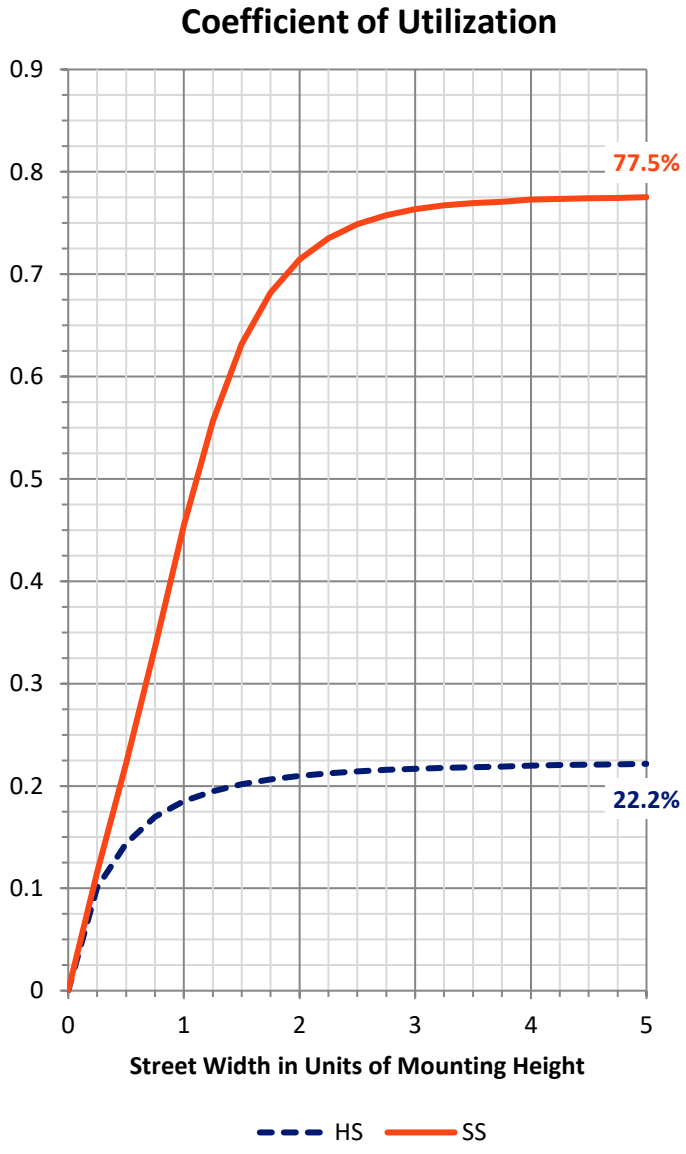
REPORT NUMBER: P1366760
CATALOG NUMBER: GSS-SB1B-935-U-T3R

**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 794.3 | 0.0 | 794.3 |
| | % Fixture | 22.3 | 0.0 | 22.3 |
| **Street Side** | Lumens | 2760.1 | 0.0 | 2760.1 |
| | % Fixture | 77.7 | 0.0 | 77.7 |
| **Total** | Lumens | 3554.4 | 0.0 | 3554.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 52.6 | 1.5 |
| 10°-20° | 150.1 | 4.2 |
| 20°-30° | 247.4 | 7.0 |
| 30°-40° | 379.9 | 10.7 |
| 40°-50° | 586.5 | 16.5 |
| 50°-60° | 810.1 | 22.8 |
| 60°-70° | 830.3 | 23.4 |
| 70°-80° | 470.3 | 13.2 |
| 80°-90° | 27.3 | 0.8 |
| 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° | 3554.4 | 100.0 |
| 0°-180° | 3554.4 | 100.0 |



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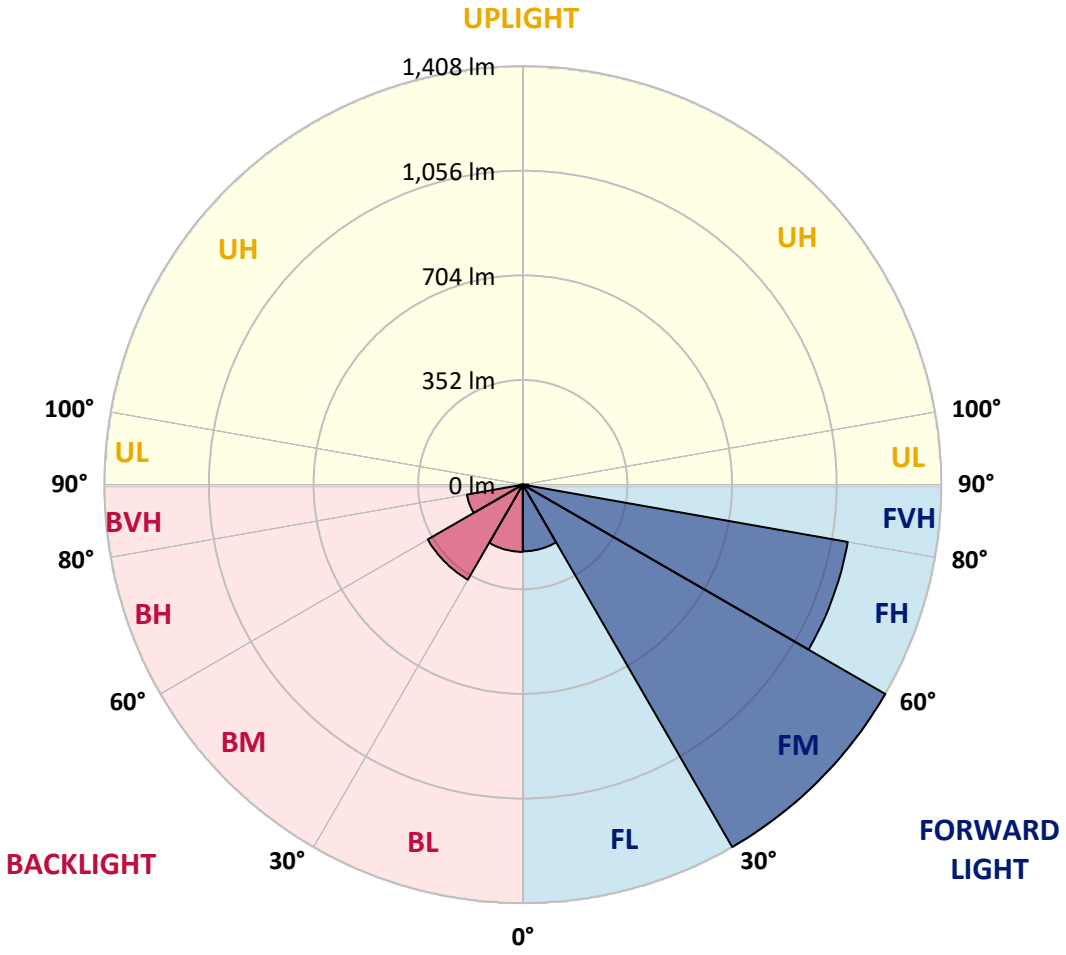
Scaled Data Report

REPORT NUMBER: P1366760
CATALOG NUMBER: GSS-SB1B-935-U-T3R

## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 224.1 | 6.3 | | | |
| FM | (30°-60°) | 1407.6 | 39.6 | | | |
| FH | (60°-80°) | 1109.7 | 31.2 | | | G1/1800 |
| FVH | (80°-90°) | 18.8 | 0.5 | | | G1/100 |
| BL | (0°-30°) | 226.0 | 6.4 | B1/500 | | |
| BM | (30°-60°) | 369.0 | 10.4 | B1/1000 | | |
| BH | (60°-80°) | 190.9 | 5.4 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 8.5 | 0.2 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B1-U0-G1**
Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 80° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 543.0 | 543.0 | 543.0 | 543.0 | 543.0 | 543.0 | 543.0 | 543.0 | 543.0 | 543.0 | 543.0 |
| 2.5° | 504.9 | 503.2 | 502.4 | 504.0 | 506.5 | 511.5 | 517.3 | 521.4 | 531.4 | 537.2 | 542.2 |
| 5° | 478.3 | 477.5 | 477.5 | 481.7 | 485.8 | 491.6 | 499.9 | 507.3 | 522.3 | 533.9 | 542.2 |
| 7.5° | 446.8 | 446.0 | 446.0 | 455.1 | 463.4 | 476.7 | 489.9 | 502.4 | 520.6 | 535.5 | 548.8 |
| 10° | 413.7 | 413.7 | 415.3 | 426.9 | 441.0 | 460.1 | 482.5 | 501.5 | 524.8 | 542.2 | 560.4 |
| 12.5° | 399.6 | 398.8 | 399.6 | 410.4 | 424.4 | 450.1 | 475.8 | 504.9 | 533.0 | 555.4 | 577.0 |
| 15° | 402.9 | 401.2 | 399.6 | 408.7 | 419.5 | 445.2 | 475.8 | 511.5 | 547.1 | 568.7 | 598.5 |
| 17.5° | 420.3 | 419.5 | 414.5 | 417.0 | 424.4 | 447.7 | 480.0 | 521.4 | 561.2 | 586.9 | 619.3 |
| 20° | 454.3 | 451.8 | 444.3 | 440.2 | 441.0 | 456.0 | 487.5 | 534.7 | 574.5 | 605.2 | 641.6 |
| 22.5° | 510.7 | 509.0 | 496.6 | 480.0 | 469.2 | 473.4 | 500.7 | 549.6 | 592.7 | 621.8 | 667.3 |
| 25° | 585.3 | 581.1 | 562.1 | 535.5 | 510.7 | 501.5 | 517.3 | 569.5 | 610.1 | 641.6 | 691.4 |
| 27.5° | 664.9 | 665.7 | 648.3 | 608.5 | 565.4 | 534.7 | 538.9 | 589.4 | 630.0 | 658.2 | 712.1 |
| 30° | 757.7 | 753.6 | 734.5 | 693.0 | 630.0 | 578.6 | 561.2 | 608.5 | 648.3 | 674.8 | 737.0 |
| 32.5° | 880.4 | 881.2 | 847.2 | 783.4 | 704.7 | 632.5 | 590.3 | 628.4 | 669.0 | 696.4 | 767.7 |
| 35° | 1028.8 | 1025.5 | 984.9 | 907.8 | 800.8 | 694.7 | 627.6 | 654.1 | 693.9 | 724.5 | 803.3 |
| 37.5° | 1161.4 | 1152.3 | 1128.3 | 1054.5 | 921.9 | 779.3 | 678.1 | 688.1 | 732.8 | 765.2 | 856.4 |
| 40° | 1280.0 | 1275.8 | 1271.7 | 1215.3 | 1060.3 | 884.5 | 744.4 | 740.3 | 780.9 | 823.2 | 921.9 |
| 42.5° | 1377.8 | 1377.0 | 1378.6 | 1366.2 | 1229.4 | 1016.4 | 837.3 | 808.3 | 848.9 | 892.0 | 998.9 |
| 45° | 1449.1 | 1447.4 | 1464.8 | 1490.5 | 1394.4 | 1173.9 | 946.7 | 892.8 | 935.1 | 984.0 | 1096.8 |
| 47.5° | 1525.4 | 1526.2 | 1550.2 | 1593.3 | 1555.2 | 1330.5 | 1071.1 | 998.1 | 1036.3 | 1098.4 | 1213.7 |
| 50° | 1555.2 | 1555.2 | 1612.4 | 1673.8 | 1684.5 | 1497.2 | 1219.5 | 1123.3 | 1162.3 | 1228.6 | 1331.4 |
| 52.5° | 1490.5 | 1503.0 | 1603.3 | 1718.5 | 1769.1 | 1651.4 | 1376.1 | 1259.3 | 1292.4 | 1377.8 | 1448.3 |
| 55° | 1129.1 | 1173.0 | 1533.7 | 1697.0 | 1800.6 | 1772.4 | 1532.0 | 1410.1 | 1446.6 | 1531.2 | 1568.5 |
| 57.5° | 974.9 | 986.5 | 1202.9 | 1621.5 | 1760.8 | 1837.9 | 1676.2 | 1571.0 | 1604.1 | 1687.0 | 1693.7 |
| 60° | 857.2 | 872.9 | 1005.6 | 1493.9 | 1682.0 | 1831.3 | 1796.4 | 1719.4 | 1765.8 | 1871.1 | 1820.5 |
| 62.5° | 694.7 | 711.3 | 823.2 | 1193.8 | 1578.4 | 1784.8 | 1890.1 | 1859.5 | 1903.4 | 1991.3 | 1872.7 |
| 65° | 611.8 | 617.6 | 698.0 | 915.2 | 1387.8 | 1745.1 | 1938.2 | 1919.1 | 1938.2 | 2012.0 | 1846.2 |
| 67.5° | 509.8 | 521.4 | 599.4 | 776.8 | 1120.8 | 1660.5 | 1866.9 | 1894.3 | 1988.8 | 2061.7 | 1866.1 |
| 68° | 488.3 | 496.6 | 576.2 | 742.8 | 1071.1 | 1629.8 | 1847.8 | 1895.9 | 2008.7 | 2071.7 | 1855.3 |
| 70° | 398.8 | 410.4 | 480.8 | 622.6 | 897.8 | 1304.9 | 1773.2 | 1928.3 | 2022.8 | 2051.0 | 1796.4 |
| 72.5° | 197.3 | 218.0 | 331.6 | 439.4 | 648.3 | 943.4 | 1554.4 | 1886.8 | 1993.8 | 1976.3 | 1672.1 |
| 75° | 69.6 | 74.6 | 155.0 | 237.9 | 314.2 | 611.0 | 1099.3 | 1720.2 | 1828.0 | 1726.0 | 1401.8 |
| 77.5° | 49.7 | 53.9 | 87.9 | 120.2 | 129.3 | 306.7 | 704.7 | 1137.4 | 1081.0 | 837.3 | 638.3 |
| 80° | 39.0 | 42.3 | 65.5 | 67.1 | 64.7 | 107.8 | 240.4 | 344.9 | 242.9 | 152.5 | 110.3 |
| 82.5° | 24.0 | 29.0 | 48.9 | 40.6 | 29.8 | 34.0 | 56.4 | 92.8 | 66.3 | 42.3 | 34.0 |
| 85° | 9.1 | 11.6 | 22.4 | 15.8 | 9.9 | 13.3 | 19.1 | 24.9 | 19.1 | 14.1 | 12.4 |
| 87.5° | 0.8 | 0.8 | 1.7 | 1.7 | 2.5 | 3.3 | 5.0 | 6.6 | 7.5 | 7.5 | 7.5 |
| 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: P1366760
CATALOG NUMBER: GSS-SB1B-935-U-T3R

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 543.0 | 543.0 | 543.0 | 543.0 | 543.0 | 543.0 | 543.0 | 543.0 | 543.0 | 543.0 | 543.0 |
| 2.5° | 545.5 | 548.0 | 558.7 | 564.6 | 575.3 | 583.6 | 588.6 | 591.1 | 593.6 | 595.2 | 594.4 |
| 5° | 551.3 | 558.7 | 579.5 | 595.2 | 607.7 | 615.9 | 620.1 | 623.4 | 624.2 | 625.9 | 625.1 |
| 7.5° | 562.1 | 573.7 | 605.2 | 623.4 | 634.2 | 637.5 | 634.2 | 632.5 | 630.0 | 627.6 | 627.6 |
| 10° | 579.5 | 597.7 | 635.0 | 648.3 | 649.1 | 644.1 | 633.4 | 620.9 | 611.8 | 608.5 | 606.8 |
| 12.5° | 601.9 | 627.6 | 665.7 | 669.0 | 658.2 | 635.0 | 604.3 | 578.6 | 562.1 | 549.6 | 548.8 |
| 15° | 629.2 | 659.1 | 692.2 | 682.3 | 651.6 | 602.7 | 552.1 | 515.6 | 496.6 | 485.8 | 480.8 |
| 17.5° | 657.4 | 695.5 | 716.3 | 688.9 | 624.2 | 544.7 | 484.1 | 455.1 | 437.7 | 431.9 | 427.8 |
| 20° | 688.9 | 725.4 | 732.8 | 679.0 | 574.5 | 480.0 | 425.3 | 407.0 | 407.0 | 405.4 | 403.7 |
| 22.5° | 721.2 | 756.1 | 742.0 | 651.6 | 509.0 | 416.2 | 383.0 | 389.6 | 401.2 | 404.6 | 404.6 |
| 25° | 751.1 | 782.6 | 742.0 | 602.7 | 431.1 | 363.9 | 366.4 | 382.2 | 397.1 | 405.4 | 405.4 |
| 27.5° | 780.1 | 799.2 | 727.0 | 533.9 | 360.6 | 337.4 | 352.3 | 371.4 | 395.4 | 407.9 | 408.7 |
| 30° | 809.1 | 811.6 | 700.5 | 446.0 | 310.0 | 318.3 | 335.7 | 360.6 | 387.1 | 402.9 | 404.6 |
| 32.5° | 839.8 | 823.2 | 663.2 | 359.0 | 286.8 | 300.1 | 320.8 | 340.7 | 361.4 | 373.1 | 373.9 |
| 35° | 874.6 | 834.0 | 615.1 | 291.8 | 271.9 | 287.7 | 303.4 | 310.0 | 315.9 | 322.5 | 326.6 |
| 37.5° | 912.7 | 848.1 | 552.1 | 257.8 | 257.8 | 276.1 | 285.2 | 271.9 | 270.3 | 269.4 | 266.9 |
| 40° | 955.0 | 863.0 | 473.4 | 240.4 | 247.0 | 263.6 | 256.2 | 240.4 | 228.8 | 216.4 | 217.2 |
| 42.5° | 1008.1 | 882.1 | 383.8 | 232.1 | 239.6 | 253.7 | 232.9 | 213.9 | 182.4 | 174.1 | 175.7 |
| 45° | 1068.6 | 906.1 | 312.5 | 224.7 | 233.8 | 244.6 | 217.2 | 180.7 | 160.8 | 169.1 | 174.9 |
| 47.5° | 1132.4 | 937.6 | 261.1 | 218.9 | 231.3 | 233.8 | 207.3 | 165.8 | 152.5 | 170.8 | 178.2 |
| 50° | 1207.9 | 966.6 | 237.1 | 213.1 | 230.5 | 230.5 | 189.8 | 163.3 | 145.9 | 161.7 | 169.1 |
| 52.5° | 1284.1 | 994.8 | 224.7 | 206.4 | 228.0 | 229.6 | 185.7 | 160.0 | 136.8 | 141.8 | 145.1 |
| 55° | 1358.7 | 1010.6 | 218.0 | 197.3 | 225.5 | 225.5 | 187.4 | 154.2 | 127.7 | 127.7 | 129.3 |
| 57.5° | 1434.2 | 1021.3 | 212.2 | 186.5 | 217.2 | 213.1 | 187.4 | 150.0 | 124.4 | 121.0 | 122.7 |
| 60° | 1517.9 | 1028.0 | 206.4 | 174.1 | 205.6 | 198.1 | 186.5 | 146.7 | 120.2 | 115.2 | 116.1 |
| 62.5° | 1531.2 | 981.5 | 195.6 | 160.8 | 189.8 | 185.7 | 183.2 | 142.6 | 113.6 | 103.6 | 103.6 |
| 65° | 1483.9 | 911.9 | 182.4 | 144.2 | 169.1 | 173.3 | 176.6 | 137.6 | 106.9 | 95.3 | 96.2 |
| 67.5° | 1478.9 | 859.7 | 168.3 | 129.3 | 141.8 | 157.5 | 168.3 | 129.3 | 97.0 | 87.0 | 86.2 |
| 68° | *1467.3* | *840.6* | *164.1* | *126.0* | *136.8* | *154.2* | *163.3* | *126.0* | *95.3* | *85.4* | *85.4* |
| 70° | 1392.7 | 757.7 | 139.3 | 111.1 | 121.0 | 126.0 | 143.4 | 111.9 | 85.4 | 77.1 | 77.9 |
| 72.5° | 1247.6 | 617.6 | 106.9 | 90.4 | 97.0 | 97.0 | 124.4 | 103.6 | 77.9 | 70.5 | 70.5 |
| 75° | 1040.4 | 488.3 | 81.2 | 71.3 | 68.0 | 78.8 | 101.1 | 93.7 | 68.8 | 63.0 | 60.5 |
| 77.5° | 472.5 | 210.6 | 53.1 | 49.7 | 50.6 | 61.3 | 80.4 | 80.4 | 65.5 | 51.4 | 45.6 |
| 80° | 104.5 | 65.5 | 32.3 | 29.8 | 29.8 | 39.0 | 56.4 | 58.0 | 47.3 | 35.6 | 30.7 |
| 82.5° | 34.8 | 26.5 | 19.9 | 18.2 | 17.4 | 20.7 | 34.8 | 38.1 | 28.2 | 20.7 | 20.7 |
| 85° | 13.3 | 12.4 | 10.8 | 9.9 | 8.3 | 8.3 | 10.8 | 17.4 | 14.9 | 9.9 | 9.9 |
| 87.5° | 6.6 | 6.6 | 5.8 | 4.1 | 3.3 | 2.5 | 1.7 | 1.7 | 1.7 | 2.5 | 1.7 |
| 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-79-08: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

McGRAW-EDISON

Report Number: SP1-2106-271-3

Luminaire Tested: GFLD-SA1-A-935-U-WR-X-BK

Test Date: 06/15/2021

Report Generated By FNC07603 / LDUCLS01DT446
Version: v6.09

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

## Test Information

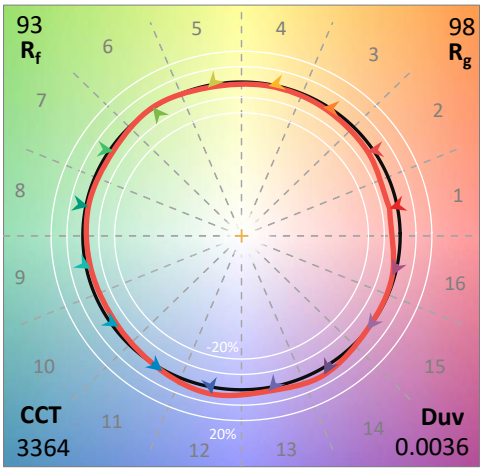
| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | SP1-2106-271-3 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 |
| Measurement Geometry: | 4π |
| Issue Date: | 06/15/2021 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | **GFLD-SA1-A-935-U-WR-X-BK** |
| Description: | MCGRAW EDISON |

N6, BLACK

## Spectral Parameters

| | | | | | |
|---|---|---|---|---|---|
| CCT (K): | 3364 | CRI (Ra): | 92.0 | | |
| CIE u': | 0.2376 | R1: | 91.7 | R9: | 59.7 |
| CIE v': | 0.5188 | R2: | 94.0 | R10: | 85.2 |
| Duv: | 0.0036 | R3: | 95.5 | R11: | 92.8 |
| CIE x: | 0.4173 | R4: | 93.0 | R12: | 78.2 |
| CIE y: | 0.4050 | R5: | 90.9 | R13: | 92.0 |
| CIE z: | 0.1777 | R6: | 92.2 | R14: | 96.9 |
| Peak Wavelength (nm): | 622 | R7: | 94.8 | | |
| Dominant Wavelength (nm): | 580 | R8: | 84.1 | | |
| Purity: | 46.9 | | | | |

| | |
|---|---|
| Rf: | 92.6 |
| Rg: | 98.3 |




## Test Conditions

| | |
|---|---|
| Stabilization Time: | 76M |
| Operation Time: | 12H |
| Room Temperature (°C) / RH%: | 24.8/44% |
| Sphere Temperature (°C): | 24.9 |

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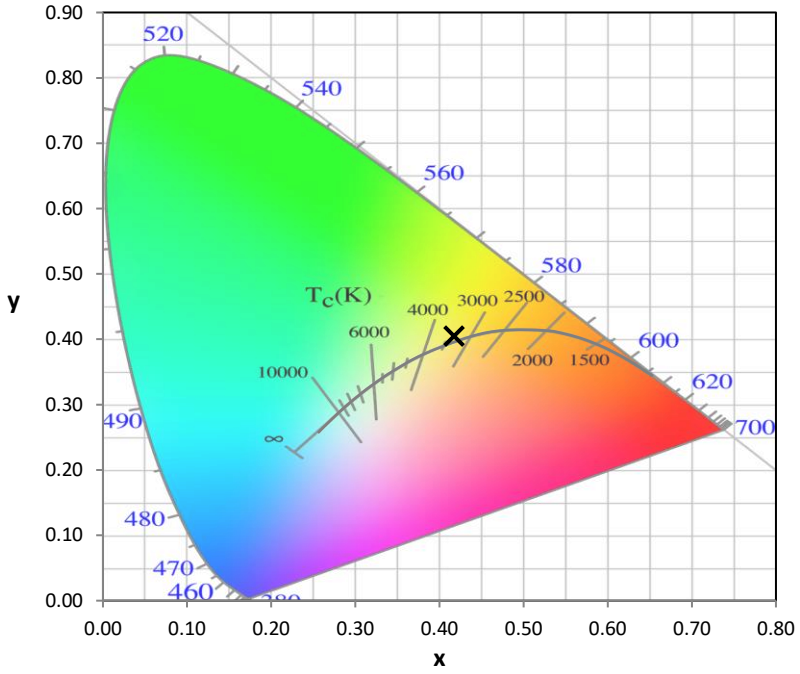
REPORT NUMBER: SP1-2106-271-3

| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | 76INCH SPHERE IN0058 | 1/31/2021 | 7/31/2021 |
| Power Meter | XITRON 2801 IN0071 | 12/1/2020 | 12/1/2021 |
| AC Power Source | CHROMA 61603 IN0063 | 12/1/2020 | 12/1/2021 |
| DC Power Source | AGILENT E3634A IN0208 | 12/1/2020 | 12/1/2021 |
| Sphere Thermometer | ONSET IN0085 | 12/1/2020 | 12/1/2021 |
| Room Thermometer | ONSET IN0046 | 12/1/2020 | 12/1/2021 |

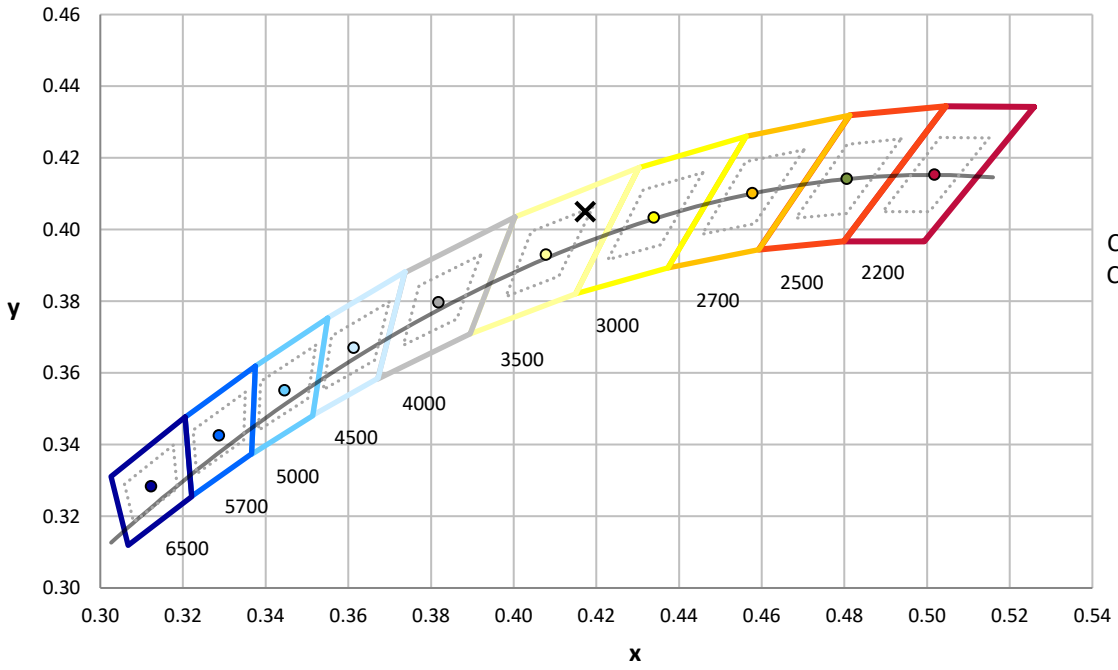
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1121 Highway 74 South
Peachtree City, GA 30269

REPORT NUMBER: SP1-2106-271-3

## CIE 1931 Chromaticity Diagram




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



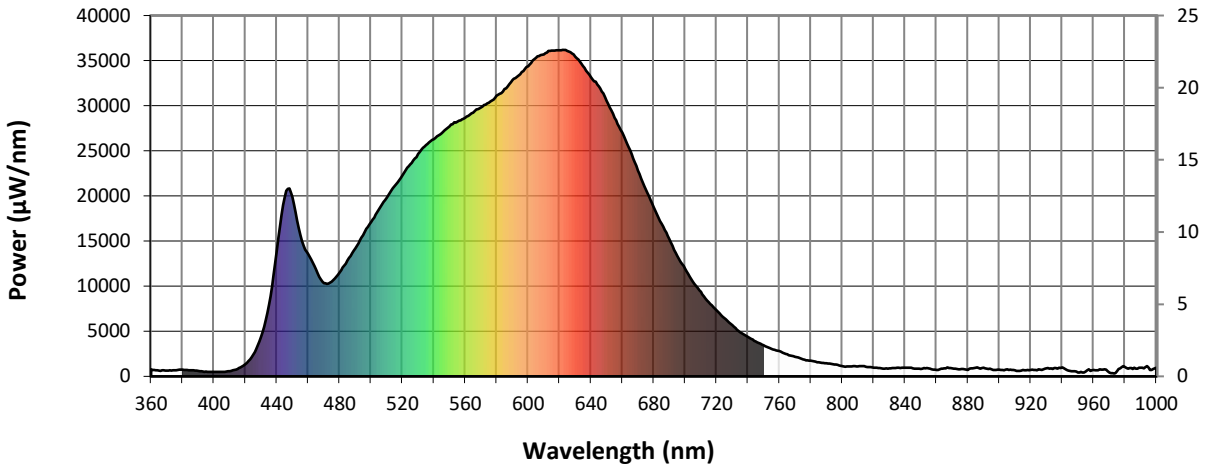

CCT = 3364K
CIE x = 0.4173
CIE y = 0.4050
Duv = 0.0036

Point lies inside the ANSI 3500K 4-step quadrangle

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## Photopic Flux vs. Wavelength



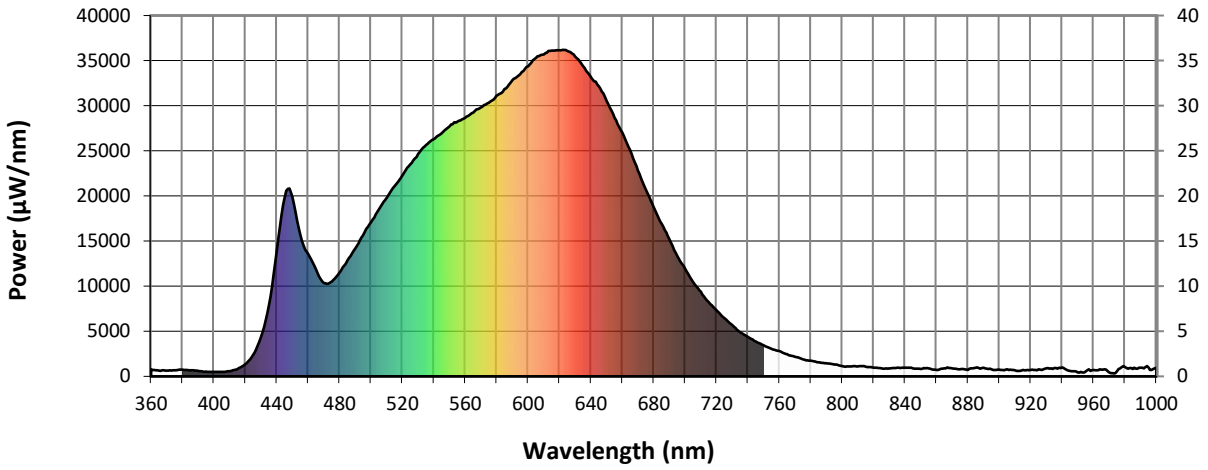

######

| 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 | 792 | NR | 490 | 14205 | NR | 620 | 36151 | NR | 750 | 3427 | NR | 880 | 712 | NR |
| 365 | 640 | NR | 495 | 15647 | NR | 625 | 36077 | NR | 755 | 3047 | NR | 885 | 942 | NR |
| 370 | 630 | NR | 500 | 17088 | NR | 630 | 35451 | NR | 760 | 2790 | NR | 890 | 952 | NR |
| 375 | 684 | NR | 505 | 18475 | NR | 635 | 34417 | NR | 765 | 2433 | NR | 895 | 764 | NR |
| 380 | 731 | NR | 510 | 19780 | NR | 640 | 33166 | NR | 770 | 2178 | NR | 900 | 743 | NR |
| 385 | 664 | NR | 515 | 21055 | NR | 645 | 32124 | NR | 775 | 1893 | NR | 905 | 776 | NR |
| 390 | 595 | NR | 520 | 22268 | NR | 650 | 30559 | NR | 780 | 1724 | NR | 910 | 659 | NR |
| 395 | 520 | NR | 525 | 23497 | NR | 655 | 28656 | NR | 785 | 1549 | NR | 915 | 701 | NR |
| 400 | 491 | NR | 530 | 24653 | NR | 660 | 27033 | NR | 790 | 1451 | NR | 920 | 728 | NR |
| 405 | 489 | NR | 535 | 25661 | NR | 665 | 25030 | NR | 795 | 1317 | NR | 925 | 793 | NR |
| 410 | 585 | NR | 540 | 26289 | NR | 670 | 22820 | NR | 800 | 1124 | NR | 930 | 877 | NR |
| 415 | 826 | NR | 545 | 26945 | NR | 675 | 20678 | NR | 805 | 1116 | NR | 935 | 923 | NR |
| 420 | 1336 | NR | 550 | 27713 | NR | 680 | 18748 | NR | 810 | 1105 | NR | 940 | 1001 | NR |
| 425 | 2406 | NR | 555 | 28230 | NR | 685 | 16904 | NR | 815 | 1073 | NR | 945 | 604 | NR |
| 430 | 4355 | NR | 560 | 28678 | NR | 690 | 15203 | NR | 820 | 977 | NR | 950 | 424 | NR |
| 435 | 7911 | NR | 565 | 29242 | NR | 695 | 13356 | NR | 825 | 882 | NR | 955 | 550 | NR |
| 440 | 13821 | NR | 570 | 29806 | NR | 700 | 11948 | NR | 830 | 875 | NR | 960 | 709 | NR |
| 445 | 19836 | NR | 575 | 30322 | NR | 705 | 10482 | NR | 835 | 944 | NR | 965 | 755 | NR |
| 450 | 19902 | NR | 580 | 31125 | NR | 710 | 9351 | NR | 840 | 956 | NR | 970 | 426 | NR |
| 455 | 15697 | NR | 585 | 31838 | NR | 715 | 8217 | NR | 845 | 875 | NR | 975 | 556 | NR |
| 460 | 13589 | NR | 590 | 32845 | NR | 720 | 7313 | NR | 850 | 801 | NR | 980 | 1040 | NR |
| 465 | 11857 | NR | 595 | 33487 | NR | 725 | 6460 | NR | 855 | 890 | NR | 985 | 833 | NR |
| 470 | 10336 | NR | 600 | 34359 | NR | 730 | 5680 | NR | 860 | 706 | NR | 990 | 964 | NR |
| 475 | 10504 | NR | 605 | 35281 | NR | 735 | 4904 | NR | 865 | 902 | NR | 995 | 953 | NR |
| 480 | 11526 | NR | 610 | 35679 | NR | 740 | 4372 | NR | 870 | 879 | NR | 1000 | 950 | NR |
| 485 | 12831 | NR | 615 | 36113 | NR | 745 | 3858 | NR | 875 | 769 | NR | | | |

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## Scotopic Flux vs. Wavelength



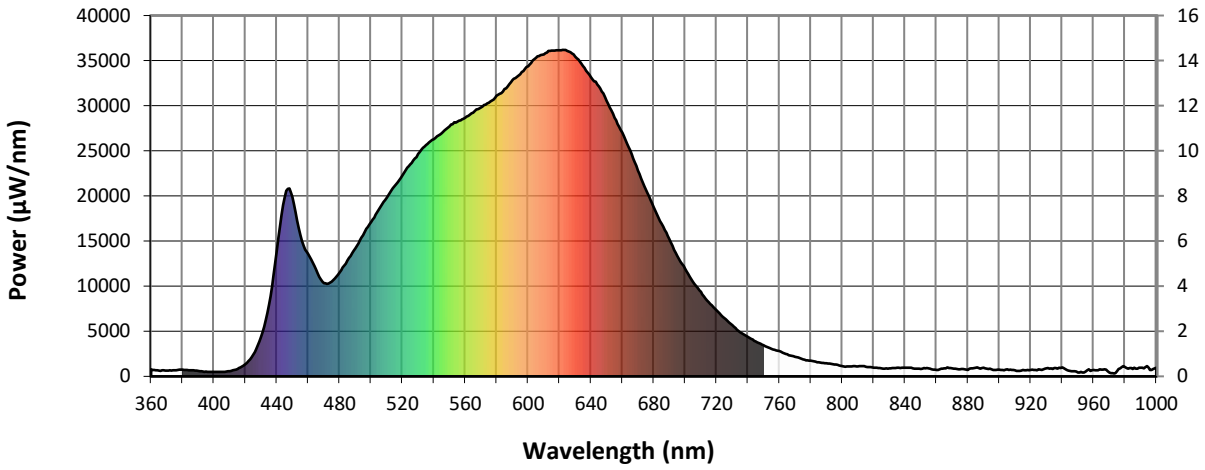

**Scotopic Lumens: 3109.5** **S/P: 1.54**

| 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 | 792 | NR | 490 | 14205 | NR | 620 | 36151 | NR | 750 | 3427 | NR | 880 | 712 | NR |
| 365 | 640 | NR | 495 | 15647 | NR | 625 | 36077 | NR | 755 | 3047 | NR | 885 | 942 | NR |
| 370 | 630 | NR | 500 | 17088 | NR | 630 | 35451 | NR | 760 | 2790 | NR | 890 | 952 | NR |
| 375 | 684 | NR | 505 | 18475 | NR | 635 | 34417 | NR | 765 | 2433 | NR | 895 | 764 | NR |
| 380 | 731 | NR | 510 | 19780 | NR | 640 | 33166 | NR | 770 | 2178 | NR | 900 | 743 | NR |
| 385 | 664 | NR | 515 | 21055 | NR | 645 | 32124 | NR | 775 | 1893 | NR | 905 | 776 | NR |
| 390 | 595 | NR | 520 | 22268 | NR | 650 | 30559 | NR | 780 | 1724 | NR | 910 | 659 | NR |
| 395 | 520 | NR | 525 | 23497 | NR | 655 | 28656 | NR | 785 | 1549 | NR | 915 | 701 | NR |
| 400 | 491 | NR | 530 | 24653 | NR | 660 | 27033 | NR | 790 | 1451 | NR | 920 | 728 | NR |
| 405 | 489 | NR | 535 | 25661 | NR | 665 | 25030 | NR | 795 | 1317 | NR | 925 | 793 | NR |
| 410 | 585 | NR | 540 | 26289 | NR | 670 | 22820 | NR | 800 | 1124 | NR | 930 | 877 | NR |
| 415 | 826 | NR | 545 | 26945 | NR | 675 | 20678 | NR | 805 | 1116 | NR | 935 | 923 | NR |
| 420 | 1336 | NR | 550 | 27713 | NR | 680 | 18748 | NR | 810 | 1105 | NR | 940 | 1001 | NR |
| 425 | 2406 | NR | 555 | 28230 | NR | 685 | 16904 | NR | 815 | 1073 | NR | 945 | 604 | NR |
| 430 | 4355 | NR | 560 | 28678 | NR | 690 | 15203 | NR | 820 | 977 | NR | 950 | 424 | NR |
| 435 | 7911 | NR | 565 | 29242 | NR | 695 | 13356 | NR | 825 | 882 | NR | 955 | 550 | NR |
| 440 | 13821 | NR | 570 | 29806 | NR | 700 | 11948 | NR | 830 | 875 | NR | 960 | 709 | NR |
| 445 | 19836 | NR | 575 | 30322 | NR | 705 | 10482 | NR | 835 | 944 | NR | 965 | 755 | NR |
| 450 | 19902 | NR | 580 | 31125 | NR | 710 | 9351 | NR | 840 | 956 | NR | 970 | 426 | NR |
| 455 | 15697 | NR | 585 | 31838 | NR | 715 | 8217 | NR | 845 | 875 | NR | 975 | 556 | NR |
| 460 | 13589 | NR | 590 | 32845 | NR | 720 | 7313 | NR | 850 | 801 | NR | 980 | 1040 | NR |
| 465 | 11857 | NR | 595 | 33487 | NR | 725 | 6460 | NR | 855 | 890 | NR | 985 | 833 | NR |
| 470 | 10336 | NR | 600 | 34359 | NR | 730 | 5680 | NR | 860 | 706 | NR | 990 | 964 | NR |
| 475 | 10504 | NR | 605 | 35281 | NR | 735 | 4904 | NR | 865 | 902 | NR | 995 | 953 | NR |
| 480 | 11526 | NR | 610 | 35679 | NR | 740 | 4372 | NR | 870 | 879 | NR | 1000 | 950 | NR |
| 485 | 12831 | NR | 615 | 36113 | NR | 745 | 3858 | NR | 875 | 769 | NR | | | |

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## Melanopic Flux vs. Wavelength




**Melanopic Lumens: 1210.8** **S/P: 0.6**

| 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 | 792 | NR | 490 | 14205 | NR | 620 | 36151 | NR | 750 | 3427 | NR | 880 | 712 | NR |
| 365 | 640 | NR | 495 | 15647 | NR | 625 | 36077 | NR | 755 | 3047 | NR | 885 | 942 | NR |
| 370 | 630 | NR | 500 | 17088 | NR | 630 | 35451 | NR | 760 | 2790 | NR | 890 | 952 | NR |
| 375 | 684 | NR | 505 | 18475 | NR | 635 | 34417 | NR | 765 | 2433 | NR | 895 | 764 | NR |
| 380 | 731 | NR | 510 | 19780 | NR | 640 | 33166 | NR | 770 | 2178 | NR | 900 | 743 | NR |
| 385 | 664 | NR | 515 | 21055 | NR | 645 | 32124 | NR | 775 | 1893 | NR | 905 | 776 | NR |
| 390 | 595 | NR | 520 | 22268 | NR | 650 | 30559 | NR | 780 | 1724 | NR | 910 | 659 | NR |
| 395 | 520 | NR | 525 | 23497 | NR | 655 | 28656 | NR | 785 | 1549 | NR | 915 | 701 | NR |
| 400 | 491 | NR | 530 | 24653 | NR | 660 | 27033 | NR | 790 | 1451 | NR | 920 | 728 | NR |
| 405 | 489 | NR | 535 | 25661 | NR | 665 | 25030 | NR | 795 | 1317 | NR | 925 | 793 | NR |
| 410 | 585 | NR | 540 | 26289 | NR | 670 | 22820 | NR | 800 | 1124 | NR | 930 | 877 | NR |
| 415 | 826 | NR | 545 | 26945 | NR | 675 | 20678 | NR | 805 | 1116 | NR | 935 | 923 | NR |
| 420 | 1336 | NR | 550 | 27713 | NR | 680 | 18748 | NR | 810 | 1105 | NR | 940 | 1001 | NR |
| 425 | 2406 | NR | 555 | 28230 | NR | 685 | 16904 | NR | 815 | 1073 | NR | 945 | 604 | NR |
| 430 | 4355 | NR | 560 | 28678 | NR | 690 | 15203 | NR | 820 | 977 | NR | 950 | 424 | NR |
| 435 | 7911 | NR | 565 | 29242 | NR | 695 | 13356 | NR | 825 | 882 | NR | 955 | 550 | NR |
| 440 | 13821 | NR | 570 | 29806 | NR | 700 | 11948 | NR | 830 | 875 | NR | 960 | 709 | NR |
| 445 | 19836 | NR | 575 | 30322 | NR | 705 | 10482 | NR | 835 | 944 | NR | 965 | 755 | NR |
| 450 | 19902 | NR | 580 | 31125 | NR | 710 | 9351 | NR | 840 | 956 | NR | 970 | 426 | NR |
| 455 | 15697 | NR | 585 | 31838 | NR | 715 | 8217 | NR | 845 | 875 | NR | 975 | 556 | NR |
| 460 | 13589 | NR | 590 | 32845 | NR | 720 | 7313 | NR | 850 | 801 | NR | 980 | 1040 | NR |
| 465 | 11857 | NR | 595 | 33487 | NR | 725 | 6460 | NR | 855 | 890 | NR | 985 | 833 | NR |
| 470 | 10336 | NR | 600 | 34359 | NR | 730 | 5680 | NR | 860 | 706 | NR | 990 | 964 | NR |
| 475 | 10504 | NR | 605 | 35281 | NR | 735 | 4904 | NR | 865 | 902 | NR | 995 | 953 | NR |
| 480 | 11526 | NR | 610 | 35679 | NR | 740 | 4372 | NR | 870 | 879 | NR | 1000 | 950 | NR |
| 485 | 12831 | NR | 615 | 36113 | NR | 745 | 3858 | NR | 875 | 769 | NR | | | |

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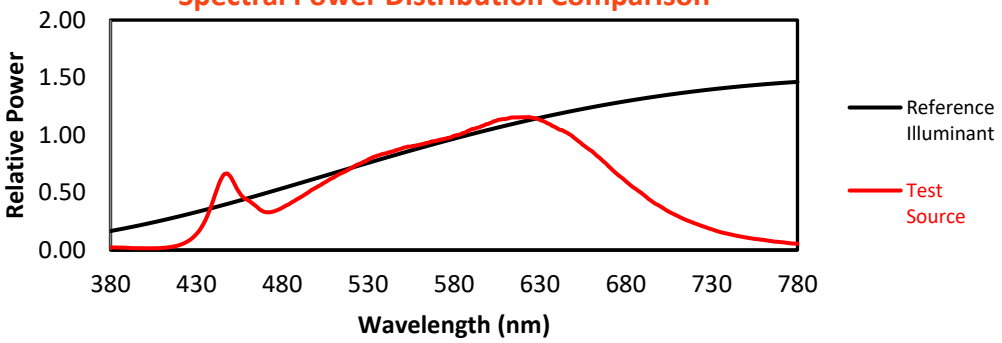
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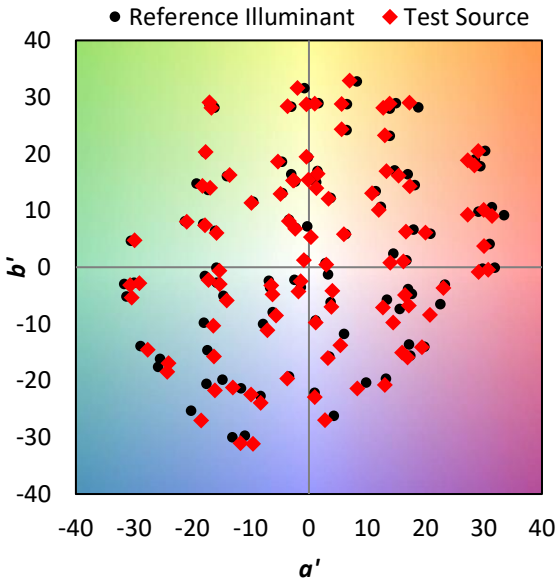
## Summary

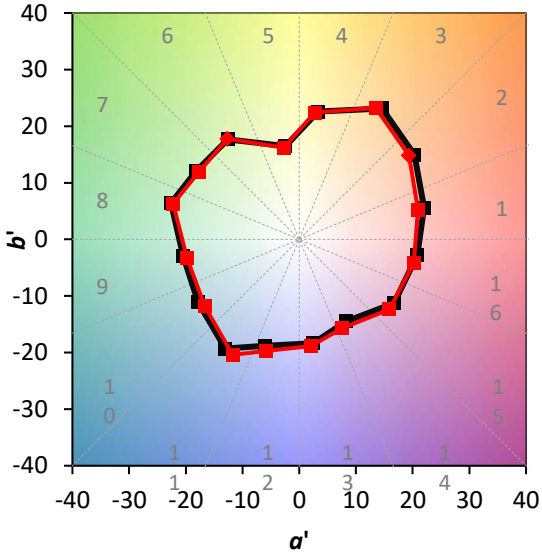
$R_f$ = 92.6
$R_g$ = 98.3
CIE $R_a$ = 92.0
$R_9$ = 59.7

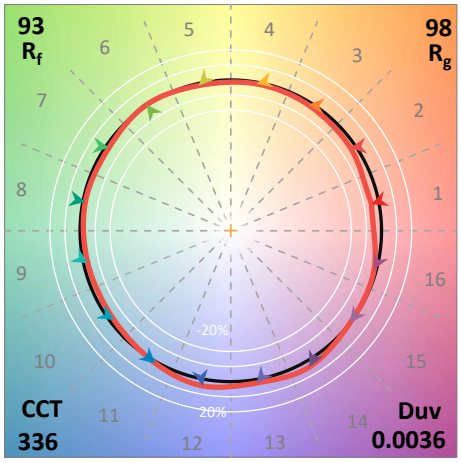
## Spectral Power Distribution Comparison

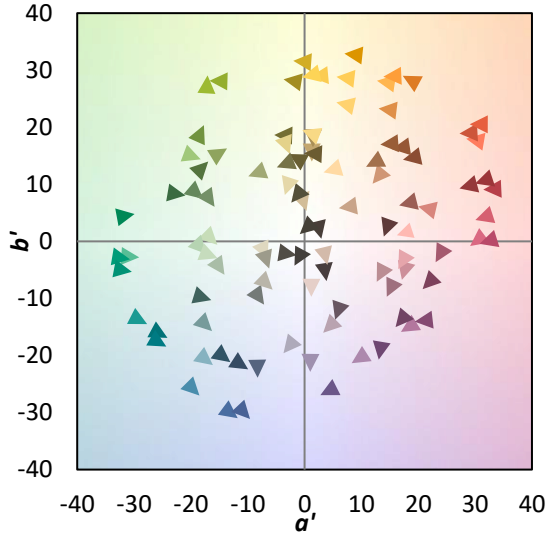



## Color Vector Graphics



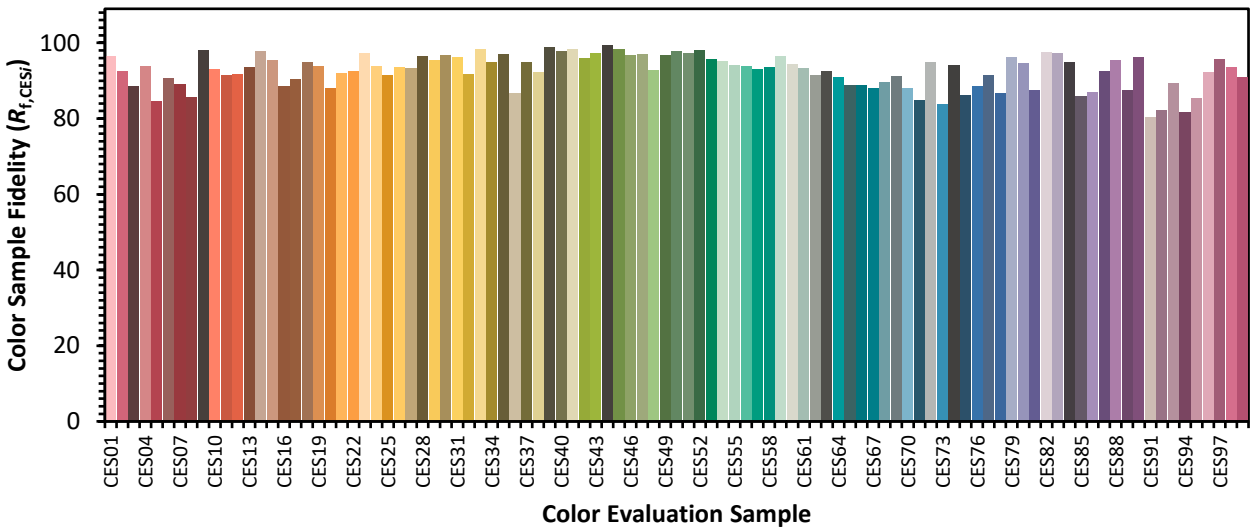
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Peachtree City, GA 30269

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## TM-30-18

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

| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 94 | CES51 = 97 | CES76 = 88 |
| CES02 = 62 | CES27 = 93 | CES52 = 98 | CES77 = 91 |
| CES03 = 31 | CES28 = 96 | CES53 = 96 | CES78 = 87 |
| CES04 = 70 | CES29 = 96 | CES54 = 95 | CES79 = 96 |
| CES05 = 50 | CES30 = 97 | CES55 = 94 | CES80 = 95 |
| CES06 = 51 | CES31 = 96 | CES56 = 94 | CES81 = 88 |
| CES07 = 42 | CES32 = 92 | CES57 = 93 | CES82 = 98 |
| CES08 = 41 | CES33 = 98 | CES58 = 94 | CES83 = 97 |
| CES09 = 29 | CES34 = 95 | CES59 = 96 | CES84 = 95 |
| CES10 = 75 | CES35 = 97 | CES60 = 94 | CES85 = 86 |
| CES11 = 58 | CES36 = 87 | CES61 = 93 | CES86 = 87 |
| CES12 = 64 | CES37 = 95 | CES62 = 91 | CES87 = 92 |
| CES13 = 43 | CES38 = 92 | CES63 = 93 | CES88 = 96 |
| CES14 = 74 | CES39 = 99 | CES64 = 91 | CES89 = 87 |
| CES15 = 71 | CES40 = 98 | CES65 = 89 | CES90 = 96 |
| CES16 = 48 | CES41 = 98 | CES66 = 89 | CES91 = 80 |
| CES17 = 49 | CES42 = 96 | CES67 = 88 | CES92 = 82 |
| CES18 = 56 | CES43 = 97 | CES68 = 90 | CES93 = 89 |
| CES19 = 71 | CES44 = 99 | CES69 = 91 | CES94 = 82 |
| CES20 = 66 | CES45 = 98 | CES70 = 88 | CES95 = 85 |
| CES21 = 86 | CES46 = 97 | CES71 = 85 | CES96 = 92 |
| CES22 = 78 | CES47 = 97 | CES72 = 95 | CES97 = 96 |
| CES23 = 91 | CES48 = 93 | CES73 = 84 | CES98 = 94 |
| CES24 = 90 | CES49 = 97 | CES74 = 94 | CES99 = 91 |
| CES25 = 71 | CES50 = 98 | CES75 = 86 | |

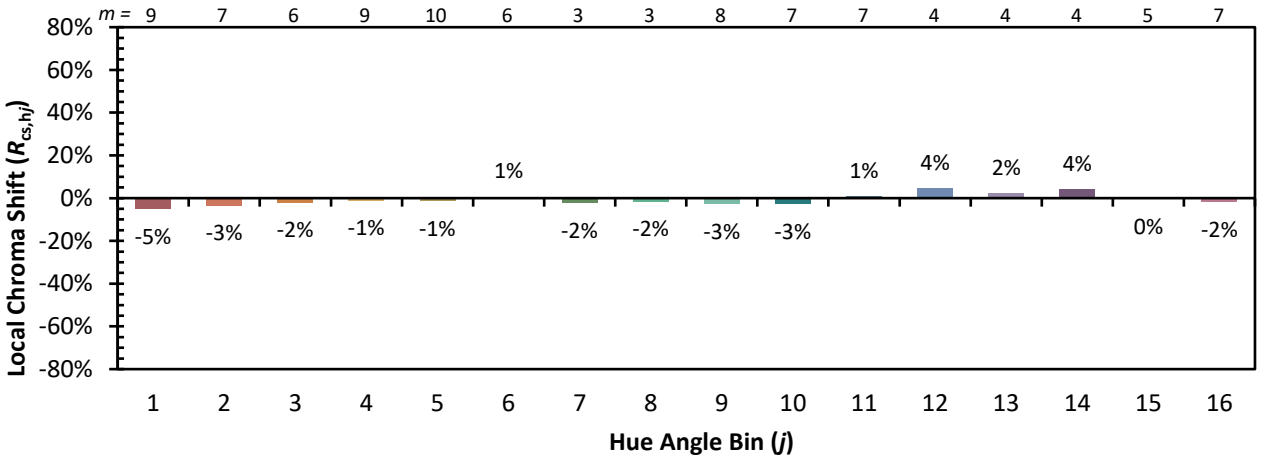


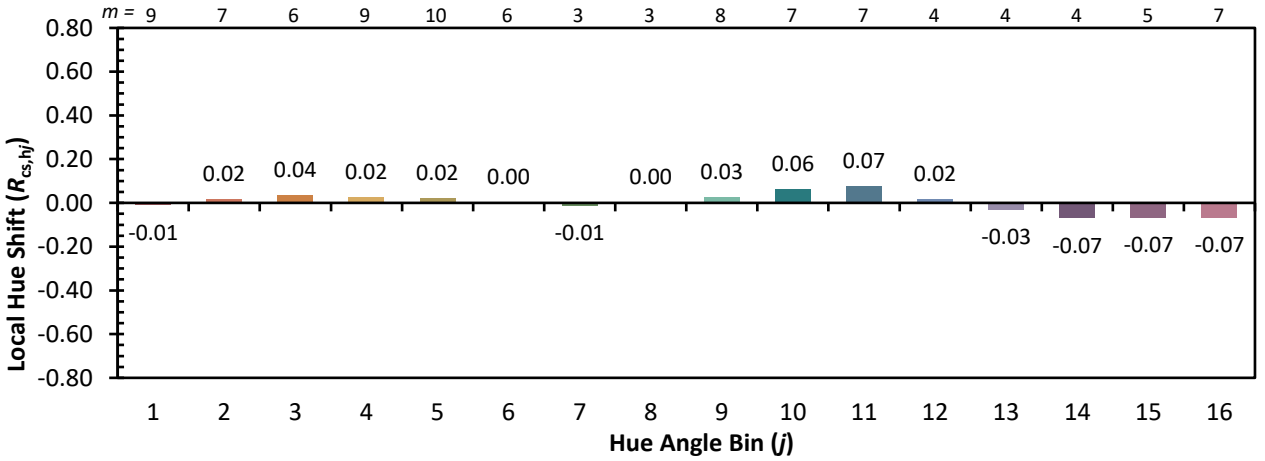
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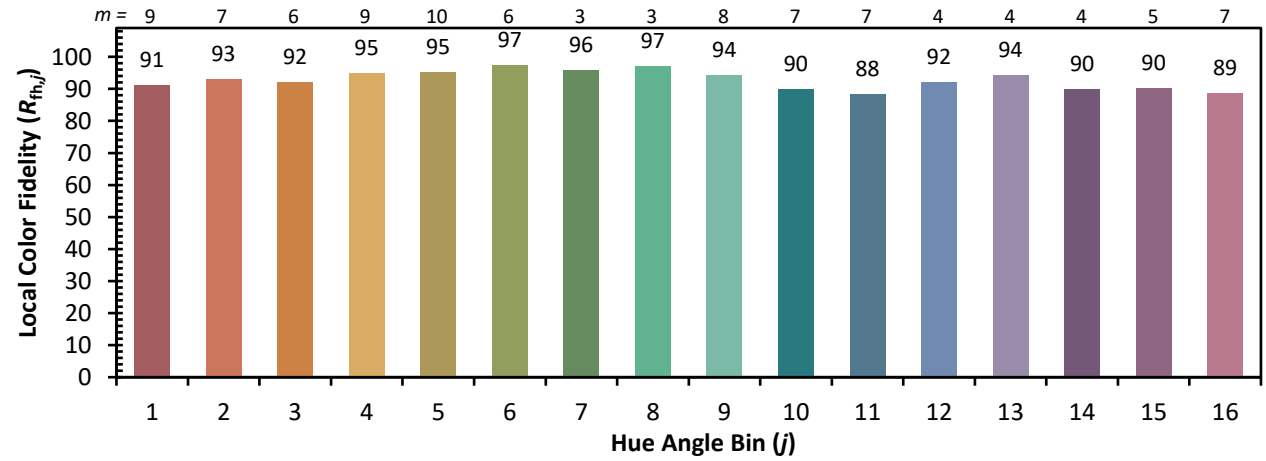
REPORT NUMBER: SP1-2106-271-3

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### Color Rendition by Hue-Angle Bin



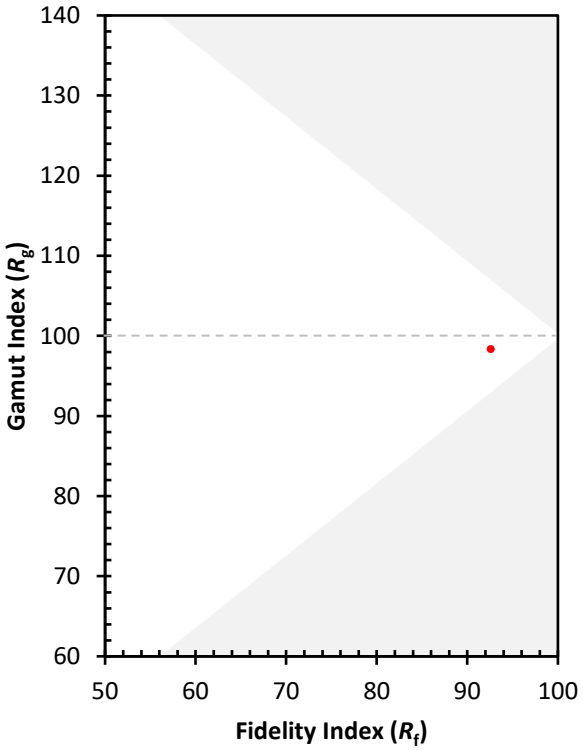



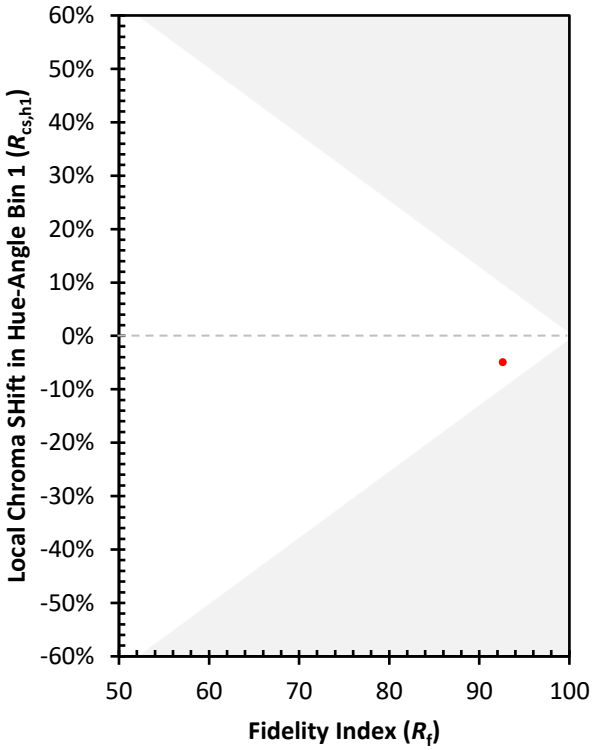
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### Measure Comparisons




(END OF REPORT)