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: P1363757

Luminaire Tested: **GSS-SB6C-740-U-SL3-HSS**

Issue Date: 02/18/2026

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: | P1363757 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 02/18/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB6C-740-U-SL3-HSS |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 6SQUARE 300W 70CRI 4000K FIXTURE w/ TYPE III SPILL CONTROL DISTRIBUTION OPTIC AND HOUSE SIDE SHIELD |
| Light Source: | (156) 4000K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 32720.2 lumens |
| Efficiency: | N/A |
| Efficacy: | 109.1 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1' x H: 0') |
| IES Classification: | Type III - Medium |
| BUG Rating: | B2 - U0 - G5 |

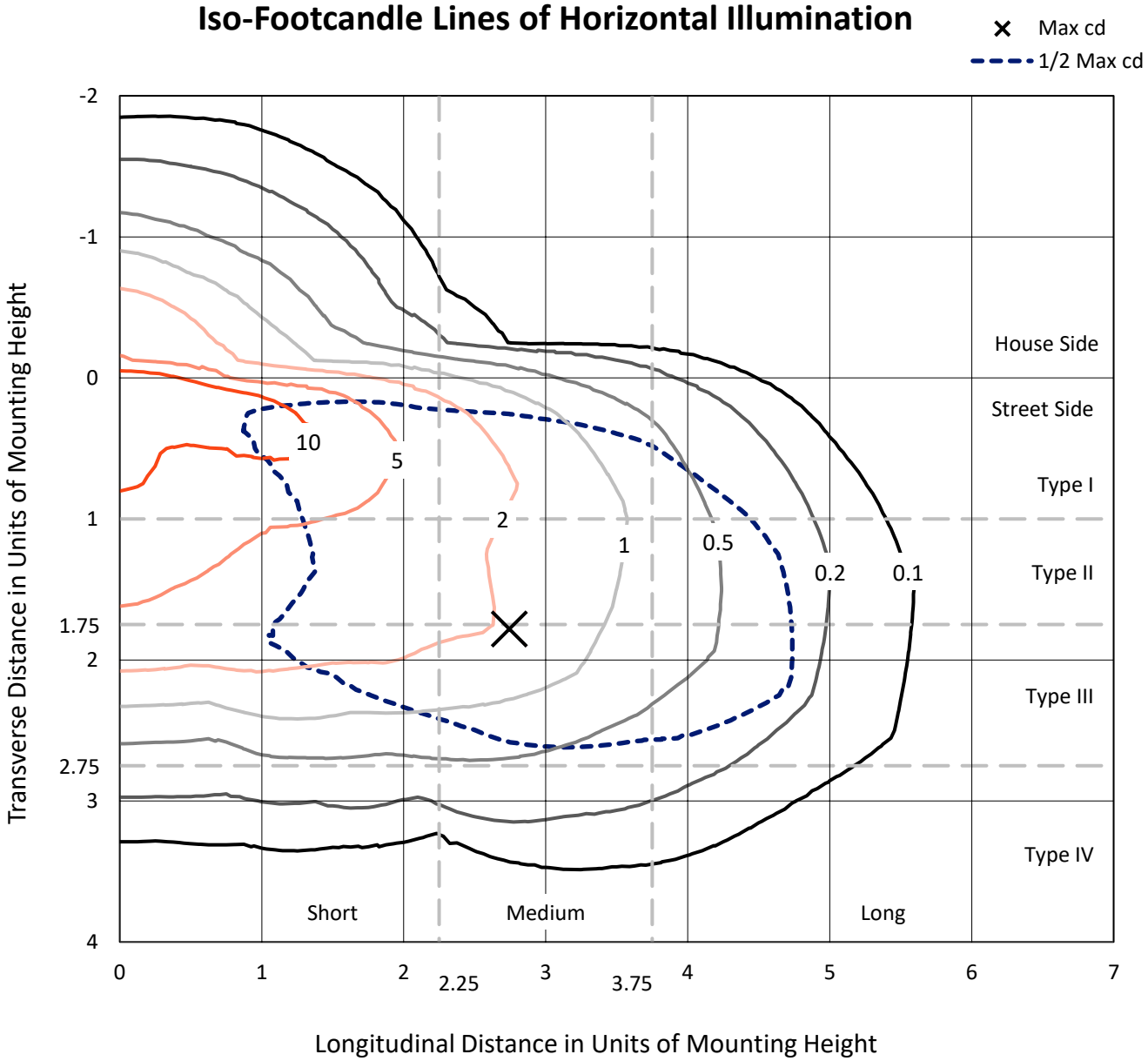
| | |
|---|---|
| Input Watts (W): | 300 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 6.3% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

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Scaled Data Report

REPORT NUMBER: P1363757
CATALOG NUMBER: GSS-SB6C-740-U-SL3-HSS

## Iso-Footcandle Lines of Horizontal Illumination



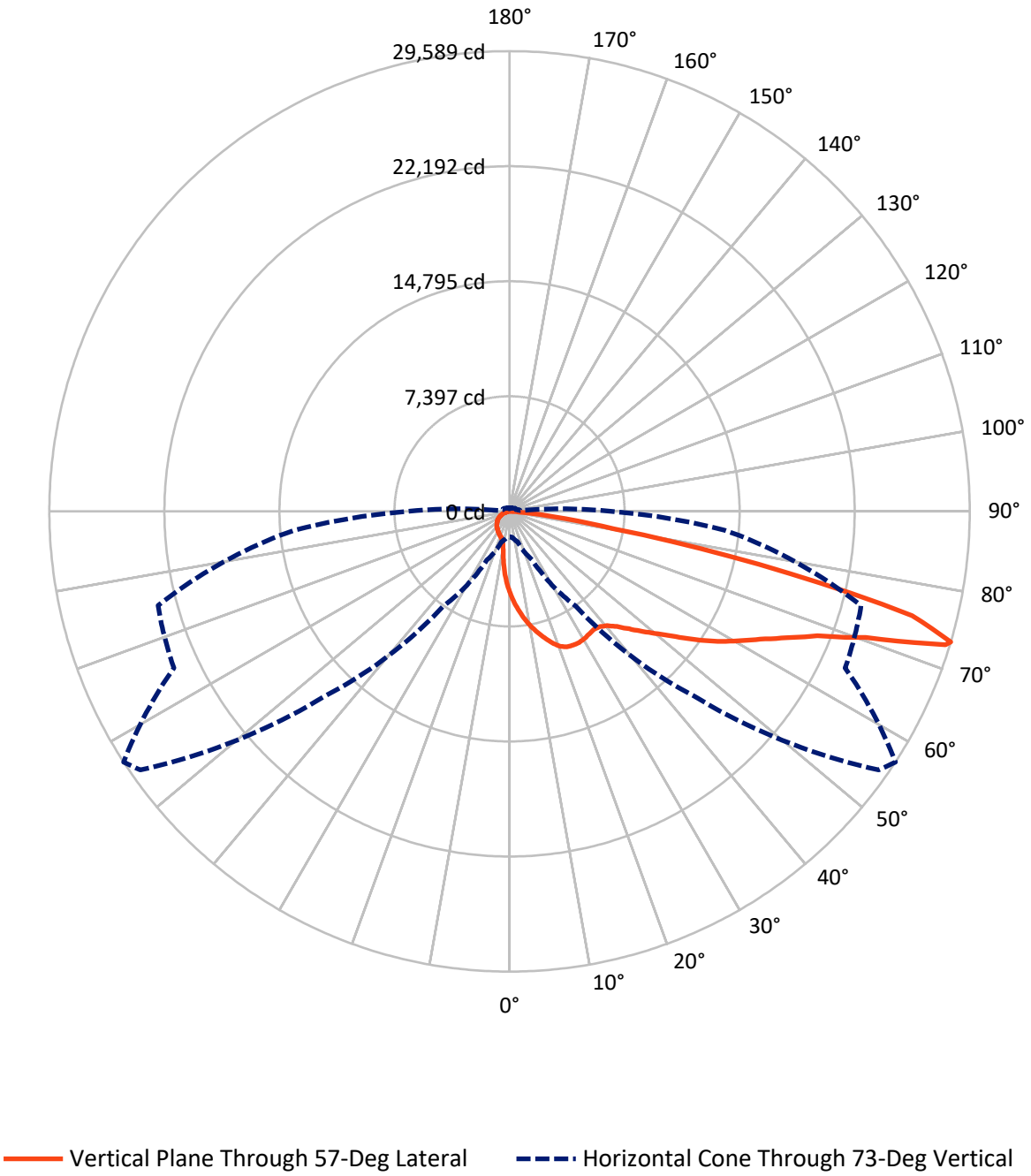

Based on 20 foot mounting height. Maximum calculated value = 19.2 fc
Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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Scaled Data Report

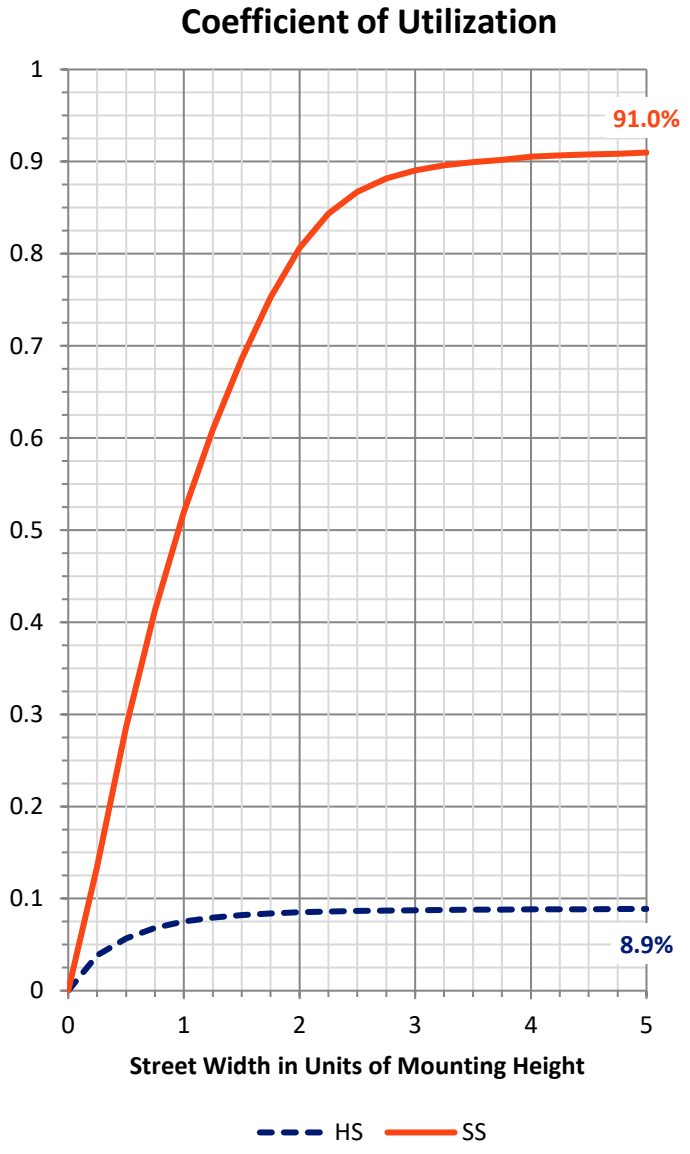
REPORT NUMBER: P1363757
CATALOG NUMBER: GSS-SB6C-740-U-SL3-HSS

**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 2930.8 | 0.0 | 2930.8 |
| | % Fixture | 9.0 | 0.0 | 9.0 |
| **Street Side** | Lumens | 29789.4 | 0.0 | 29789.4 |
| | % Fixture | 91.0 | 0.0 | 91.0 |
| **Total** | Lumens | 32720.2 | 0.0 | 32720.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 488.0 | 1.5 |
| 10°-20° | 1399.5 | 4.3 |
| 20°-30° | 2123.9 | 6.5 |
| 30°-40° | 3076.0 | 9.4 |
| 40°-50° | 4593.7 | 14.0 |
| 50°-60° | 6651.3 | 20.3 |
| 60°-70° | 8057.9 | 24.6 |
| 70°-80° | 5819.7 | 17.8 |
| 80°-90° | 510.3 | 1.6 |
| 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° | 32720.2 | 100.0 |
| 0°-180° | 32720.2 | 100.0 |



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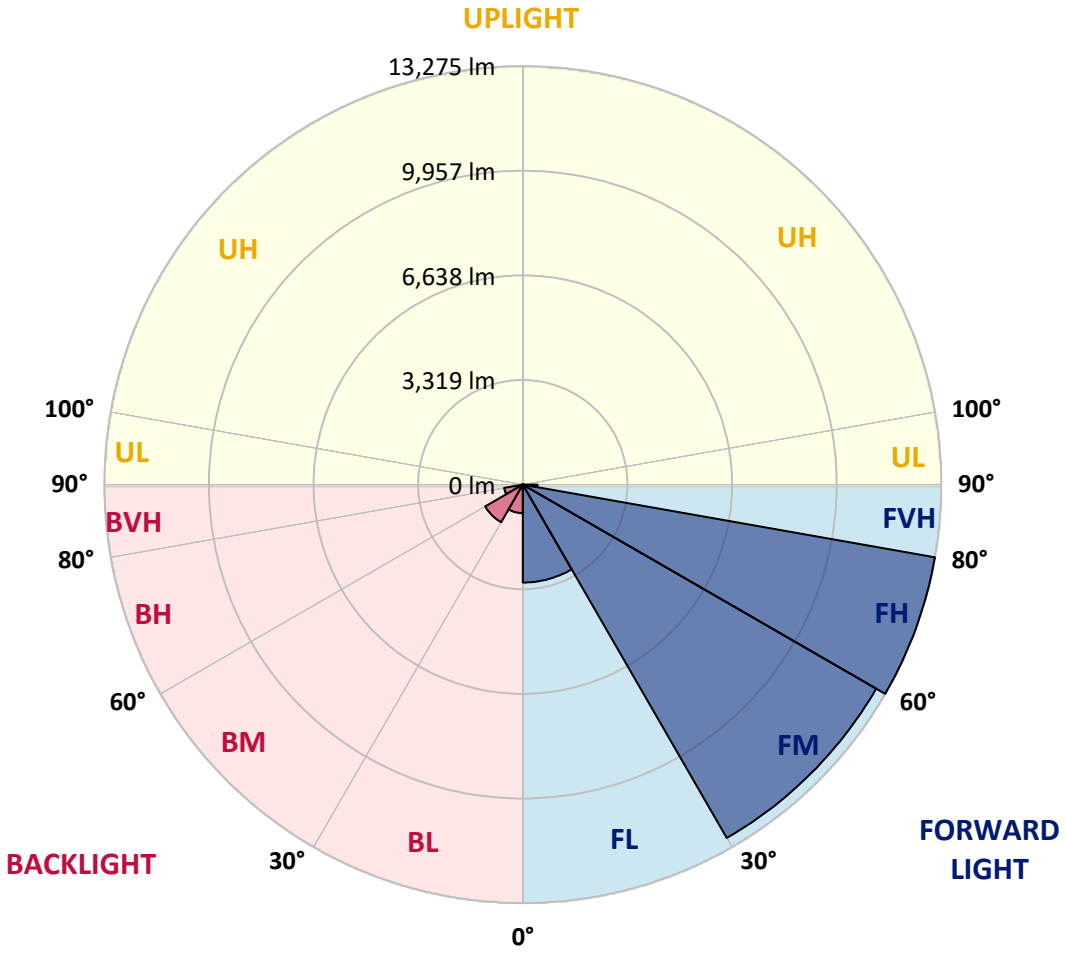
Scaled Data Report

REPORT NUMBER: P1363757
CATALOG NUMBER: GSS-SB6C-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°) | 3105.4 | 9.5 | | | |
| FM | (30°-60°) | 12942.5 | 39.6 | | | |
| FH | (60°-80°) | 13275.5 | 40.6 | | | G5 |
| FVH | (80°-90°) | 466.0 | 1.4 | | | G3/500 |
| BL | (0°-30°) | 906.0 | 2.8 | B2/1000 | | |
| BM | (30°-60°) | 1378.5 | 4.2 | B2/2500 | | |
| BH | (60°-80°) | 602.1 | 1.8 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 44.3 | 0.1 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B2-U0-G5**
Type III Medium



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Scaled Data Report

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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 5263.6 | 5263.6 | 5263.6 | 5263.6 | 5263.6 | 5263.6 | 5263.6 | *5263.6* | 5263.6 | 5263.6 | 5263.6 |
| 2.5° | 6329.1 | 6350.4 | 6275.8 | 6233.2 | 6148.0 | 6009.5 | 5870.9 | *5870.9* | 5711.1 | 5561.9 | 5370.2 |
| 5° | 7266.8 | 7202.8 | 7170.9 | 7064.3 | 6904.5 | 6734.0 | 6488.9 | *6425.0* | 6169.3 | 5849.6 | 5466.0 |
| 7.5° | 7980.6 | 7906.1 | 7874.1 | 7778.2 | 7597.1 | 7373.3 | 7043.0 | *6989.7* | 6616.8 | 6148.0 | 5593.9 |
| 10° | 8417.5 | 8364.2 | 8364.2 | 8289.6 | 8151.1 | 7916.7 | 7586.4 | *7511.8* | 7064.3 | 6425.0 | 5679.1 |
| 12.5° | 8225.7 | 8204.4 | 8332.3 | 8502.7 | 8566.7 | 8428.2 | 8076.5 | *7980.6* | 7469.2 | 6734.0 | 5785.7 |
| 15° | 7352.0 | 7330.7 | 7565.1 | 8012.6 | 8556.0 | 8790.4 | 8524.0 | *8438.8* | 7906.1 | 7053.7 | 5892.2 |
| 17.5° | 6510.2 | 6478.3 | 6702.0 | 7149.5 | 7959.3 | 8833.0 | 8992.9 | *8886.3* | 8342.9 | 7373.3 | 6009.5 |
| 20° | 6030.8 | 5998.8 | 6148.0 | 6510.2 | 7245.4 | 8492.1 | 9237.9 | *9259.2* | 8822.4 | 7724.9 | 6126.7 |
| 22.5° | 5860.3 | 5849.6 | 5924.2 | 6169.3 | 6691.4 | 7906.1 | 9333.8 | *9461.7* | 9344.5 | 8129.8 | 6297.1 |
| 25° | 5934.9 | 5892.2 | 5913.6 | 6009.5 | 6382.4 | 7437.2 | 9280.6 | *9525.6* | 9781.3 | 8619.9 | 6520.9 |
| 27.5° | 6126.7 | 6094.7 | 6062.7 | 6062.7 | 6254.5 | 7096.3 | 9142.0 | *9546.9* | 10228.9 | 9152.7 | 6712.7 |
| 30° | 6446.3 | 6403.7 | 6307.8 | 6190.6 | 6254.5 | 6883.2 | 8982.2 | *9493.7* | 10612.4 | 9728.1 | 6979.1 |
| 32.5° | 7170.9 | 7138.9 | 6861.9 | 6488.9 | 6403.7 | 6829.9 | 8801.1 | *9397.8* | 11028.0 | 10410.0 | 7288.1 |
| 35° | 7884.7 | 7852.8 | 7661.0 | 7128.2 | 6659.4 | 6872.5 | 8683.9 | *9333.8* | 11539.4 | 11241.1 | 7650.3 |
| 37.5° | 8204.4 | 8151.1 | 8002.0 | 7714.3 | 7256.1 | 7117.6 | 8715.8 | *9408.4* | 12274.6 | 12157.4 | 8097.8 |
| 40° | 8609.3 | 8524.0 | 8300.3 | 8033.9 | 7831.5 | 7682.3 | 8971.6 | *9664.1* | 13095.1 | 13212.3 | 8588.0 |
| 42.5° | 9206.0 | 9110.1 | 8779.8 | 8406.8 | 8172.4 | 8470.8 | 9461.7 | *10122.3* | 14107.3 | 14384.3 | 9184.7 |
| 45° | 10026.4 | 9898.6 | 9472.3 | 8982.2 | 8694.5 | 8865.0 | 10122.3 | *10772.3* | 15236.7 | 15716.2 | 9877.2 |
| 47.5° | 10772.3 | 10740.3 | 10260.8 | 9696.1 | 9355.1 | 9131.4 | 10836.2 | *11528.8* | 16430.1 | 17207.9 | 10591.1 |
| 50° | 11475.5 | 11358.3 | 10889.5 | 10335.4 | 10047.7 | 9674.8 | 11624.7 | *12370.5* | 17623.5 | 18571.8 | 11358.3 |
| 52.5° | 12242.7 | 12114.8 | 11475.5 | 10846.9 | 10559.2 | 10473.9 | 12647.6 | *13372.1* | 18667.7 | 20010.2 | 12136.1 |
| 55° | 12839.3 | 12658.2 | 11955.0 | 11432.9 | 10974.7 | 11262.4 | 13745.0 | *14576.1* | 19594.7 | 21310.1 | 12924.6 |
| 57.5° | 13585.2 | 13350.8 | 12349.2 | 11965.6 | 11614.0 | 12061.5 | 14981.0 | *15780.1* | 20564.3 | 22407.6 | 13713.1 |
| 60° | 14235.2 | 14054.0 | 13084.4 | 12604.9 | 12274.6 | 12967.2 | 16185.0 | *16888.3* | 21320.8 | 23345.2 | 14437.6 |
| 62.5° | 12253.3 | 12232.0 | 12487.7 | 13926.2 | 13436.0 | 14341.7 | 17474.3 | *18092.3* | 21778.9 | 23973.9 | 14735.9 |
| 65° | 8694.5 | 8758.5 | 9472.3 | 13947.5 | 15694.9 | 16643.2 | 19168.5 | *19573.3* | 21800.3 | 23260.0 | 14149.9 |
| 67.5° | 5530.0 | 5466.0 | 6350.4 | 11677.9 | 15780.1 | 21182.3 | 21747.0 | *21342.1* | 20820.0 | 22492.8 | 14224.5 |
| 70° | 3313.7 | 3335.0 | 3633.4 | 8470.8 | 13009.8 | 22215.8 | 25348.4 | *24304.2* | 21406.0 | 23057.6 | 14288.4 |
| 72.5° | 1800.7 | 1843.3 | 2269.5 | 4155.5 | 8619.9 | 17676.7 | 29162.9 | *29312.1* | 23409.2 | 23323.9 | 14043.4 |
| 73° | *1640.9* | *1651.5* | *2035.1* | *3473.5* | *7458.5* | *16803.0* | *28981.8* | *29589.1* | *23814.1* | *23398.5* | *13883.5* |
| 75° | 1086.8 | 1086.8 | 1385.2 | 1971.2 | 3271.1 | 13063.1 | 24059.1 | *26744.2* | 25188.6 | 22631.3 | 12636.9 |
| 77.5° | 671.3 | 713.9 | 959.0 | 1363.8 | 1193.4 | 6574.2 | 14149.9 | *16366.2* | 22460.9 | 17026.8 | 7938.0 |
| 80° | 245.1 | 266.4 | 596.7 | 895.0 | 692.6 | 2493.3 | 5934.9 | *6808.6* | 10410.0 | 8641.3 | 2866.2 |
| 82.5° | 127.9 | 138.5 | 372.9 | 458.2 | 372.9 | 650.0 | 2653.1 | *2834.2* | 4198.1 | 2248.2 | 532.8 |
| 85° | 63.9 | 74.6 | 159.8 | 191.8 | 149.2 | 213.1 | 660.6 | *618.0* | 948.3 | 298.3 | 149.2 |
| 87.5° | 0.0 | 0.0 | 10.7 | 21.3 | 32.0 | 42.6 | 63.9 | *63.9* | 74.6 | 85.2 | 85.2 |
| 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: P1363757
CATALOG NUMBER: GSS-SB6C-740-U-SL3-HSS

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 5263.6 | 5263.6 | 5263.6 | 5263.6 | 5263.6 | 5263.6 | 5263.6 | 5263.6 | 5263.6 | 5263.6 | 5263.6 |
| 2.5° | 5252.9 | 5167.7 | 4965.3 | 4762.8 | 4613.6 | 4453.8 | 4304.6 | 4176.8 | 4102.2 | 4070.2 | 4102.2 |
| 5° | 5263.6 | 5082.5 | 4666.9 | 4251.4 | 3846.5 | 3516.2 | 3207.2 | 2983.4 | 2823.6 | 2770.3 | 2749.0 |
| 7.5° | 5263.6 | 4965.3 | 4315.3 | 3633.4 | 3036.7 | 2599.8 | 2290.8 | 2152.3 | 2077.7 | 2067.1 | 2067.1 |
| 10° | 5252.9 | 4826.7 | 3921.1 | 3026.0 | 2344.1 | 2045.8 | 1949.9 | 1928.6 | 1928.6 | 1928.6 | 1939.2 |
| 12.5° | 5242.3 | 4698.9 | 3473.5 | 2440.0 | 1971.2 | 1875.3 | 1843.3 | 1843.3 | 1854.0 | 1864.6 | 1875.3 |
| 15° | 5221.0 | 4507.1 | 3004.7 | 2035.1 | 1832.7 | 1800.7 | 1779.4 | 1779.4 | 1790.1 | 1811.4 | 1811.4 |
| 17.5° | 5199.7 | 4315.3 | 2546.6 | 1854.0 | 1768.7 | 1736.8 | 1726.1 | 1715.5 | 1736.8 | 1758.1 | 1758.1 |
| 20° | 5157.0 | 4070.2 | 2163.0 | 1758.1 | 1704.8 | 1683.5 | 1672.8 | 1662.2 | 1672.8 | 1694.2 | 1704.8 |
| 22.5° | 5103.8 | 3761.2 | 1907.3 | 1694.2 | 1651.5 | 1619.6 | 1608.9 | 1598.3 | 1598.3 | 1640.9 | 1640.9 |
| 25° | 5050.5 | 3420.3 | 1758.1 | 1630.2 | 1587.6 | 1555.6 | 1534.3 | 1523.7 | 1534.3 | 1566.3 | 1566.3 |
| 27.5° | 4943.9 | 3047.3 | 1662.2 | 1576.9 | 1534.3 | 1491.7 | 1470.4 | 1449.1 | 1459.7 | 1491.7 | 1491.7 |
| 30° | 4784.1 | 2653.1 | 1608.9 | 1523.7 | 1470.4 | 1417.1 | 1385.2 | 1363.8 | 1374.5 | 1406.5 | 1417.1 |
| 32.5° | 4549.7 | 2312.1 | 1587.6 | 1481.1 | 1417.1 | 1342.5 | 1299.9 | 1268.0 | 1278.6 | 1321.2 | 1321.2 |
| 35° | 4304.6 | 2067.1 | 1576.9 | 1438.4 | 1353.2 | 1278.6 | 1204.0 | 1161.4 | 1182.7 | 1225.3 | 1236.0 |
| 37.5° | 4048.9 | 1928.6 | 1576.9 | 1417.1 | 1310.6 | 1214.7 | 1108.1 | 1065.5 | 1076.2 | 1118.8 | 1129.4 |
| 40° | 3825.2 | 1864.6 | 1587.6 | 1395.8 | 1257.3 | 1140.1 | 1022.9 | 969.6 | 990.9 | 1044.2 | 1033.5 |
| 42.5° | 3739.9 | 1854.0 | 1587.6 | 1342.5 | 1204.0 | 1065.5 | 937.6 | 884.4 | 905.7 | 937.6 | 948.3 |
| 45° | 3835.8 | 1896.6 | 1566.3 | 1289.3 | 1129.4 | 980.3 | 873.7 | 820.4 | 831.1 | 852.4 | 873.7 |
| 47.5° | 4166.1 | 1949.9 | 1534.3 | 1225.3 | 1065.5 | 916.3 | 809.8 | 767.2 | 745.9 | 777.8 | 788.5 |
| 50° | 4624.3 | 1981.8 | 1481.1 | 1161.4 | 1012.2 | 852.4 | 756.5 | 703.2 | 681.9 | 692.6 | 703.2 |
| 52.5° | 5146.4 | 1981.8 | 1427.8 | 1097.5 | 959.0 | 788.5 | 713.9 | 660.6 | 618.0 | 628.6 | 628.6 |
| 55° | 5668.5 | 1960.5 | 1289.3 | 1044.2 | 905.7 | 745.9 | 671.3 | 596.7 | 564.7 | 564.7 | 554.1 |
| 57.5° | 6211.9 | 1928.6 | 1118.8 | 969.6 | 841.7 | 692.6 | 618.0 | 554.1 | 511.4 | 490.1 | 490.1 |
| 60° | 6744.7 | 1885.9 | 1022.9 | 895.0 | 767.2 | 650.0 | 564.7 | 511.4 | 458.2 | 426.2 | 415.5 |
| 62.5° | 7021.7 | 1768.7 | 916.3 | 799.1 | 692.6 | 586.0 | 511.4 | 458.2 | 394.2 | 351.6 | 341.0 |
| 65° | 6872.5 | 1523.7 | 788.5 | 713.9 | 628.6 | 522.1 | 458.2 | 404.9 | 330.3 | 277.0 | 277.0 |
| 67.5° | 7032.3 | 1278.6 | 671.3 | 607.3 | 543.4 | 447.5 | 383.6 | 351.6 | 287.7 | 245.1 | 245.1 |
| 70° | 7085.6 | 1001.6 | 564.7 | 522.1 | 468.8 | 372.9 | 330.3 | 309.0 | 255.7 | 213.1 | 202.4 |
| 72.5° | 6691.4 | 745.9 | 458.2 | 436.9 | 383.6 | 287.7 | 277.0 | 255.7 | 213.1 | 170.5 | 170.5 |
| 73° | *6531.6* | *692.6* | *436.9* | *415.5* | *362.3* | *277.0* | *266.4* | *245.1* | *202.4* | *170.5* | *159.8* |
| 75° | 5753.7 | 532.8 | 362.3 | 341.0 | 287.7 | 234.4 | 223.8 | 202.4 | 170.5 | 138.5 | 138.5 |
| 77.5° | 3814.5 | 383.6 | 277.0 | 255.7 | 213.1 | 181.1 | 170.5 | 149.2 | 127.9 | 106.6 | 106.6 |
| 80° | 1406.5 | 255.7 | 202.4 | 181.1 | 159.8 | 149.2 | 127.9 | 106.6 | 85.2 | 85.2 | 74.6 |
| 82.5° | 287.7 | 170.5 | 149.2 | 127.9 | 117.2 | 106.6 | 85.2 | 74.6 | 63.9 | 63.9 | 63.9 |
| 85° | 117.2 | 106.6 | 85.2 | 85.2 | 85.2 | 74.6 | 63.9 | 63.9 | 53.3 | 53.3 | 42.6 |
| 87.5° | 74.6 | 63.9 | 63.9 | 53.3 | 53.3 | 42.6 | 42.6 | 42.6 | 42.6 | 42.6 | 42.6 |
| 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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# LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-1

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-740-U-5WQ

Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

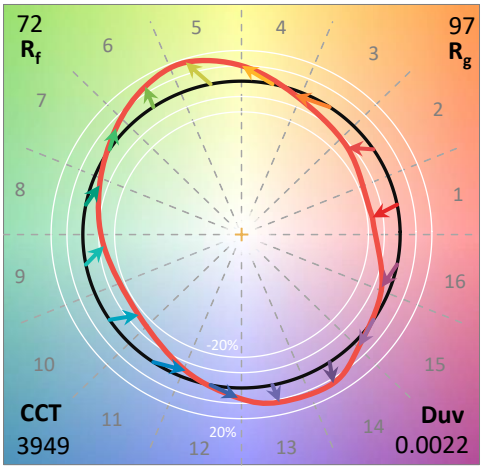
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2407-184-1 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 - 76IN SPHERE |
| Measurement Geometry: | 4π |
| Issue Date: | 10/15/2024 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGraw-Edison |
| Catalog Number: | **GSS-SB1A-740-U-5WQ** |
| Description: | GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 4000K CCT 26 LEDS |

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 3949 |
| CIE u': | 0.2248 |
| CIE v': | 0.5053 |
| Duv: | 0.0022 |
| CIE x: | 0.3844 |
| CIE y: | 0.3840 |
| CIE z: | 0.2316 |
| Peak Wavelength (nm): | 440 |
| Dominant Wavelength (nm): | 578 |
| Purity: | 30.60026 |
| Rf: | 71.8 |
| Rg: | 96.5 |

| | |
|---|---|
| CRI (Ra): | 70.7 |
| R1: | 68.0 |
| R2: | 76.0 |
| R3: | 84.3 |
| R4: | 72.0 |
| R5: | 68.6 |
| R6: | 68.3 |
| R7: | 77.9 |
| R8: | 50.3 |
| R9: | -36.7 |
| R10: | 45.1 |
| R11: | 70.7 |
| R12: | 47.1 |
| R13: | 68.5 |
| R14: | 91.1 |
| R15: | 58.7 |




## Test Conditions

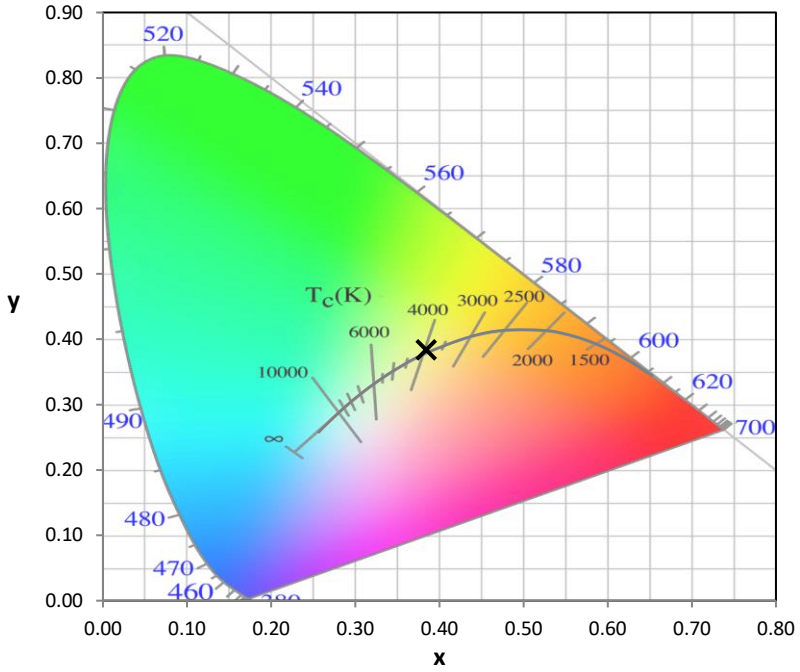
| | |
|---|---|
| Stabilization Time: | 34M |
| Operation Time: | 1H 34M |
| Sphere Temperature (°C): | 25.2 |

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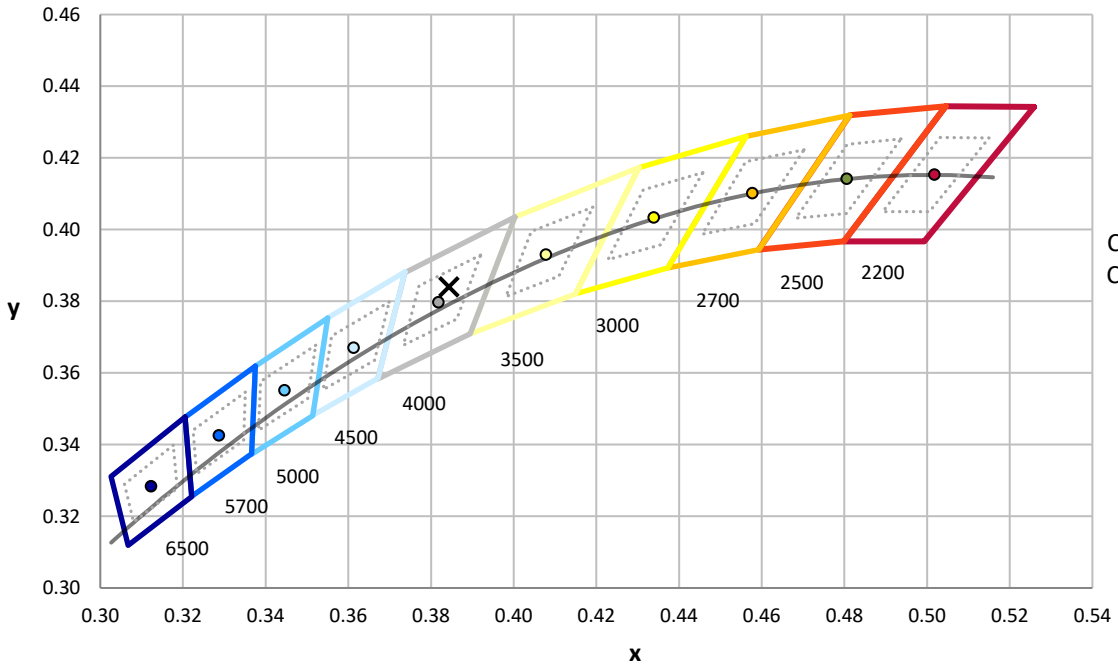
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC Power Source | IN0208 | 10/24/2023 | 10/24/2024 |
| Sphere Thermometer | IN0085 | 10/24/2023 | 10/24/2024 |
| Room Thermometer | IN0046 | 10/24/2023 | 10/24/2024 |

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## CIE 1931 Chromaticity Diagram




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

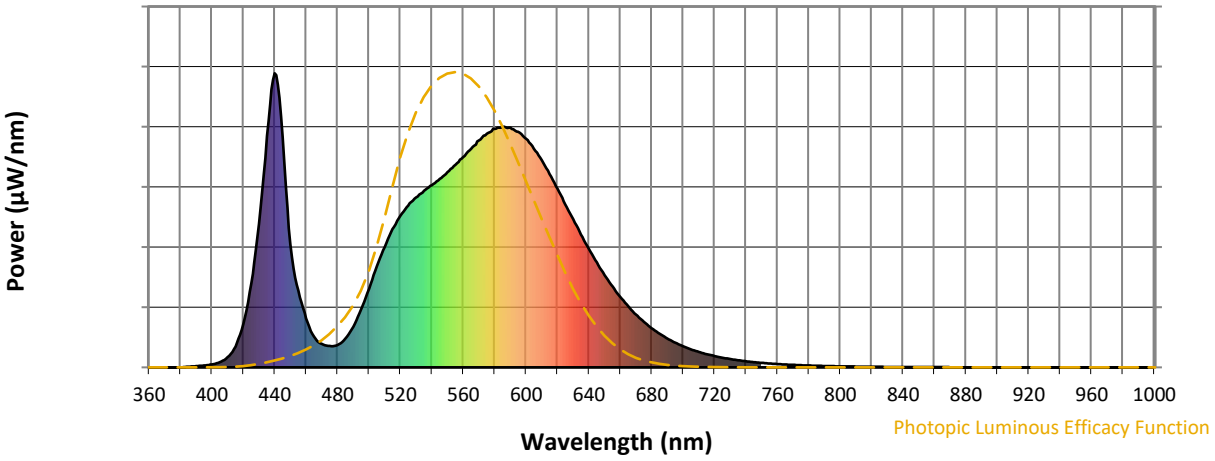



CCT = 3949K
CIE x = 0.3844
CIE y = 0.3840
Duv = 0.0022

Point lies inside the ANSI 4000K 4-step quadrangle

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## Photopic Flux vs. Wavelength

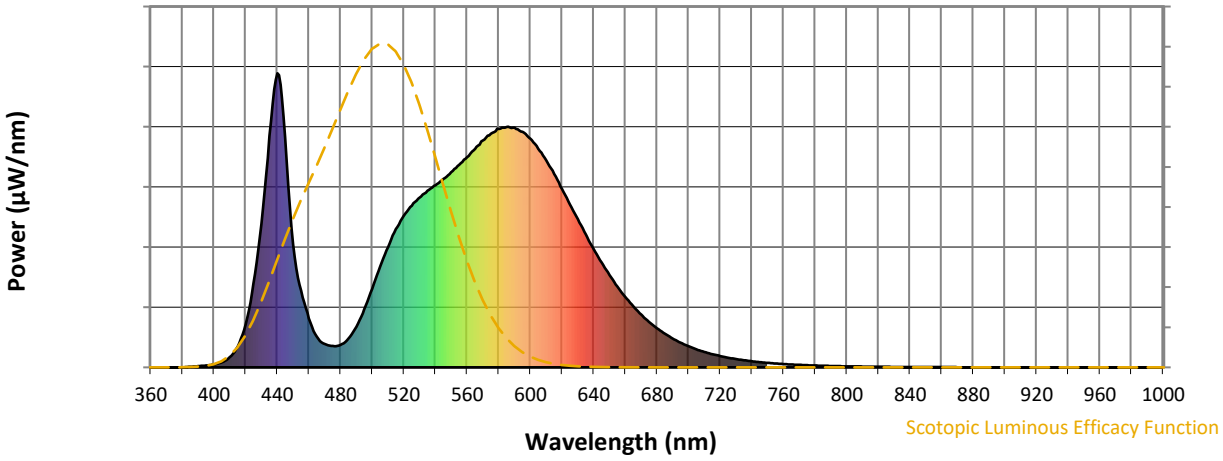



## Photopic Lumens: NR

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 139 | NR | 620 | 607 | NR | 750 | 15 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 198 | NR | 625 | 554 | NR | 755 | 13 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 267 | NR | 630 | 504 | NR | 760 | 11 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 343 | NR | 635 | 452 | NR | 765 | 10 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 410 | NR | 640 | 403 | NR | 770 | 8 | NR | 900 | 0 | NR |
| 385 | 2 | NR | 515 | 470 | NR | 645 | 357 | NR | 775 | 7 | NR | 905 | 0 | NR |
| 390 | 4 | NR | 520 | 516 | NR | 650 | 314 | NR | 780 | 6 | NR | 910 | 0 | NR |
| 395 | 7 | NR | 525 | 550 | NR | 655 | 275 | NR | 785 | 5 | NR | 915 | 0 | NR |
| 400 | 10 | NR | 530 | 578 | NR | 660 | 240 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 17 | NR | 535 | 601 | NR | 665 | 208 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 35 | NR | 540 | 620 | NR | 670 | 179 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 70 | NR | 545 | 641 | NR | 675 | 155 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 147 | NR | 550 | 664 | NR | 680 | 133 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 285 | NR | 555 | 689 | NR | 685 | 114 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 487 | NR | 560 | 715 | NR | 690 | 98 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 787 | NR | 565 | 743 | NR | 695 | 84 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 1000 | NR | 570 | 771 | NR | 700 | 72 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 783 | NR | 575 | 794 | NR | 705 | 61 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 417 | NR | 580 | 811 | NR | 710 | 52 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 261 | NR | 585 | 817 | NR | 715 | 45 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 167 | NR | 590 | 815 | NR | 720 | 39 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 104 | NR | 595 | 801 | NR | 725 | 33 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 79 | NR | 600 | 777 | NR | 730 | 28 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 73 | NR | 605 | 744 | NR | 735 | 24 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 76 | NR | 610 | 704 | NR | 740 | 21 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 98 | NR | 615 | 657 | NR | 745 | 18 | NR | 875 | 1 | NR | | | |

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## Scotopic Flux vs. Wavelength

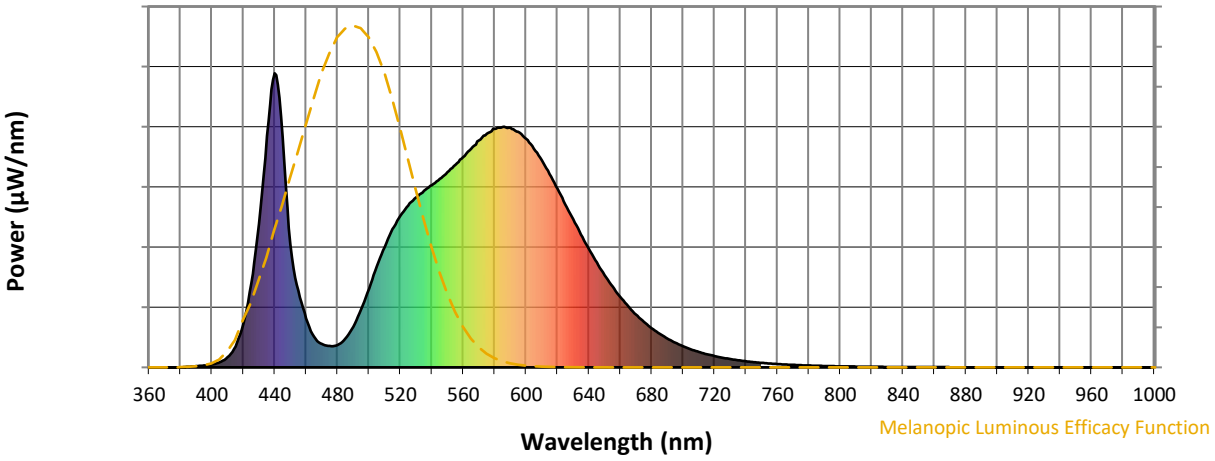



**Scotopic Lumens: NR** **S/P: 1.47**

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 139 | NR | 620 | 607 | NR | 750 | 15 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 198 | NR | 625 | 554 | NR | 755 | 13 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 267 | NR | 630 | 504 | NR | 760 | 11 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 343 | NR | 635 | 452 | NR | 765 | 10 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 410 | NR | 640 | 403 | NR | 770 | 8 | NR | 900 | 0 | NR |
| 385 | 2 | NR | 515 | 470 | NR | 645 | 357 | NR | 775 | 7 | NR | 905 | 0 | NR |
| 390 | 4 | NR | 520 | 516 | NR | 650 | 314 | NR | 780 | 6 | NR | 910 | 0 | NR |
| 395 | 7 | NR | 525 | 550 | NR | 655 | 275 | NR | 785 | 5 | NR | 915 | 0 | NR |
| 400 | 10 | NR | 530 | 578 | NR | 660 | 240 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 17 | NR | 535 | 601 | NR | 665 | 208 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 35 | NR | 540 | 620 | NR | 670 | 179 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 70 | NR | 545 | 641 | NR | 675 | 155 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 147 | NR | 550 | 664 | NR | 680 | 133 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 285 | NR | 555 | 689 | NR | 685 | 114 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 487 | NR | 560 | 715 | NR | 690 | 98 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 787 | NR | 565 | 743 | NR | 695 | 84 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 1000 | NR | 570 | 771 | NR | 700 | 72 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 783 | NR | 575 | 794 | NR | 705 | 61 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 417 | NR | 580 | 811 | NR | 710 | 52 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 261 | NR | 585 | 817 | NR | 715 | 45 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 167 | NR | 590 | 815 | NR | 720 | 39 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 104 | NR | 595 | 801 | NR | 725 | 33 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 79 | NR | 600 | 777 | NR | 730 | 28 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 73 | NR | 605 | 744 | NR | 735 | 24 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 76 | NR | 610 | 704 | NR | 740 | 21 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 98 | NR | 615 | 657 | NR | 745 | 18 | NR | 875 | 1 | NR | | | |

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## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 2.78**

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 139 | NR | 620 | 607 | NR | 750 | 15 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 198 | NR | 625 | 554 | NR | 755 | 13 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 267 | NR | 630 | 504 | NR | 760 | 11 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 343 | NR | 635 | 452 | NR | 765 | 10 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 410 | NR | 640 | 403 | NR | 770 | 8 | NR | 900 | 0 | NR |
| 385 | 2 | NR | 515 | 470 | NR | 645 | 357 | NR | 775 | 7 | NR | 905 | 0 | NR |
| 390 | 4 | NR | 520 | 516 | NR | 650 | 314 | NR | 780 | 6 | NR | 910 | 0 | NR |
| 395 | 7 | NR | 525 | 550 | NR | 655 | 275 | NR | 785 | 5 | NR | 915 | 0 | NR |
| 400 | 10 | NR | 530 | 578 | NR | 660 | 240 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 17 | NR | 535 | 601 | NR | 665 | 208 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 35 | NR | 540 | 620 | NR | 670 | 179 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 70 | NR | 545 | 641 | NR | 675 | 155 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 147 | NR | 550 | 664 | NR | 680 | 133 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 285 | NR | 555 | 689 | NR | 685 | 114 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 487 | NR | 560 | 715 | NR | 690 | 98 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 787 | NR | 565 | 743 | NR | 695 | 84 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 1000 | NR | 570 | 771 | NR | 700 | 72 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 783 | NR | 575 | 794 | NR | 705 | 61 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 417 | NR | 580 | 811 | NR | 710 | 52 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 261 | NR | 585 | 817 | NR | 715 | 45 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 167 | NR | 590 | 815 | NR | 720 | 39 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 104 | NR | 595 | 801 | NR | 725 | 33 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 79 | NR | 600 | 777 | NR | 730 | 28 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 73 | NR | 605 | 744 | NR | 735 | 24 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 76 | NR | 610 | 704 | NR | 740 | 21 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 98 | NR | 615 | 657 | NR | 745 | 18 | NR | 875 | 1 | NR | | | |

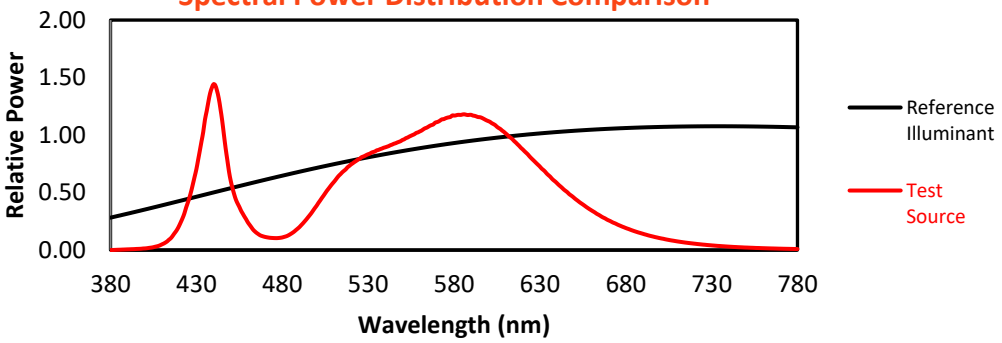
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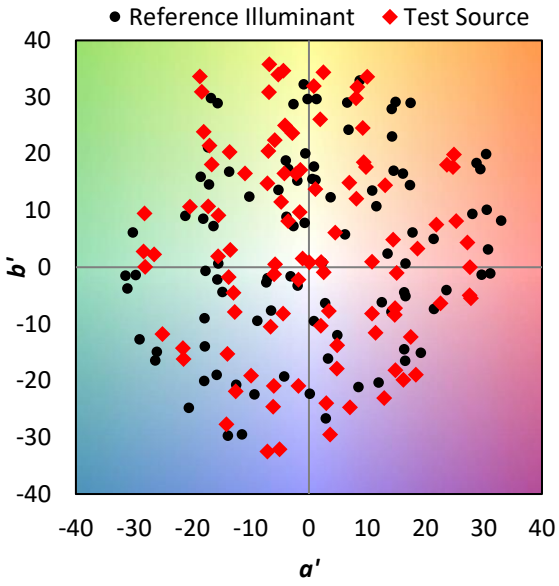
## Summary

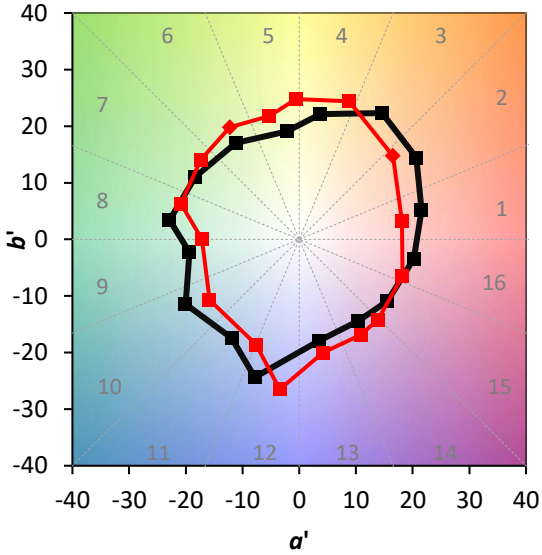
$R_f$ = 71.8
$R_g$ = 96.5
CIE $R_a$ = 70.7
$R_9$ = -36.7

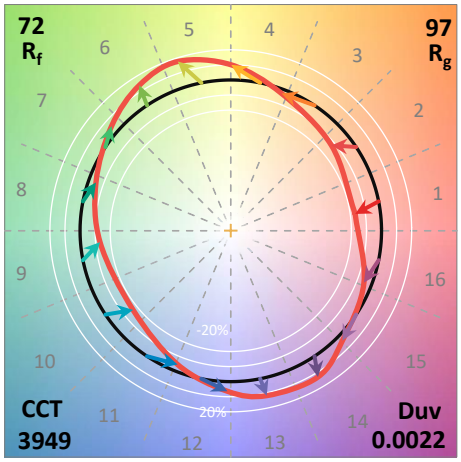
## Spectral Power Distribution Comparison

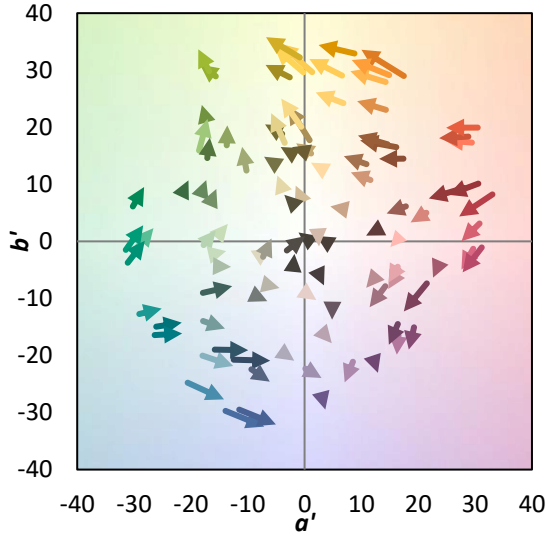



## Color Vector Graphics



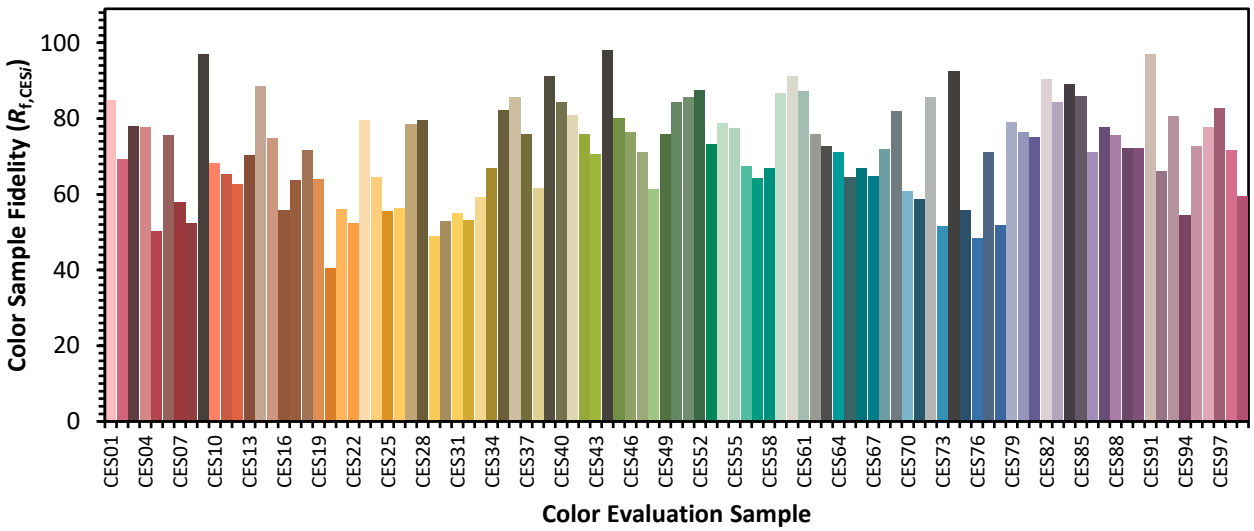



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**Individual Sample Fidelity Index ($R_{f,i}$)**

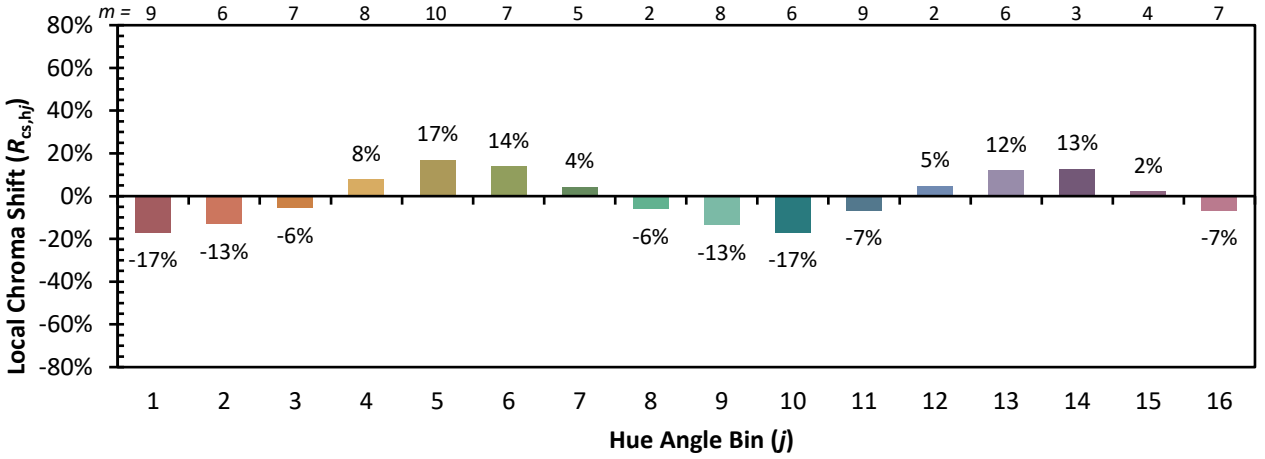
| | | | |
|---|---|---|---|
| CES01 = 85 | CES26 = 56 | CES51 = 86 | CES76 = 48 |
| CES02 = 61 | CES27 = 79 | CES52 = 88 | CES77 = 71 |
| CES03 = 30 | CES28 = 80 | CES53 = 73 | CES78 = 52 |
| CES04 = 70 | CES29 = 49 | CES54 = 79 | CES79 = 79 |
| CES05 = 47 | CES30 = 53 | CES55 = 77 | CES80 = 77 |
| CES06 = 50 | CES31 = 55 | CES56 = 67 | CES81 = 75 |
| CES07 = 40 | CES32 = 53 | CES57 = 64 | CES82 = 90 |
| CES08 = 39 | CES33 = 59 | CES58 = 67 | CES83 = 84 |
| CES09 = 29 | CES34 = 67 | CES59 = 87 | CES84 = 89 |
| CES10 = 74 | CES35 = 82 | CES60 = 91 | CES85 = 86 |
| CES11 = 57 | CES36 = 86 | CES61 = 87 | CES86 = 71 |
| CES12 = 63 | CES37 = 76 | CES62 = 76 | CES87 = 78 |
| CES13 = 42 | CES38 = 62 | CES63 = 73 | CES88 = 76 |
| CES14 = 74 | CES39 = 91 | CES64 = 71 | CES89 = 72 |
| CES15 = 71 | CES40 = 84 | CES65 = 64 | CES90 = 72 |
| CES16 = 46 | CES41 = 81 | CES66 = 67 | CES91 = 97 |
| CES17 = 49 | CES42 = 76 | CES67 = 65 | CES92 = 66 |
| CES18 = 56 | CES43 = 71 | CES68 = 72 | CES93 = 81 |
| CES19 = 72 | CES44 = 98 | CES69 = 82 | CES94 = 55 |
| CES20 = 65 | CES45 = 80 | CES70 = 61 | CES95 = 73 |
| CES21 = 86 | CES46 = 76 | CES71 = 59 | CES96 = 78 |
| CES22 = 78 | CES47 = 71 | CES72 = 86 | CES97 = 83 |
| CES23 = 92 | CES48 = 61 | CES73 = 52 | CES98 = 72 |
| CES24 = 91 | CES49 = 76 | CES74 = 93 | CES99 = 60 |
| CES25 = 72 | CES50 = 84 | CES75 = 56 | |

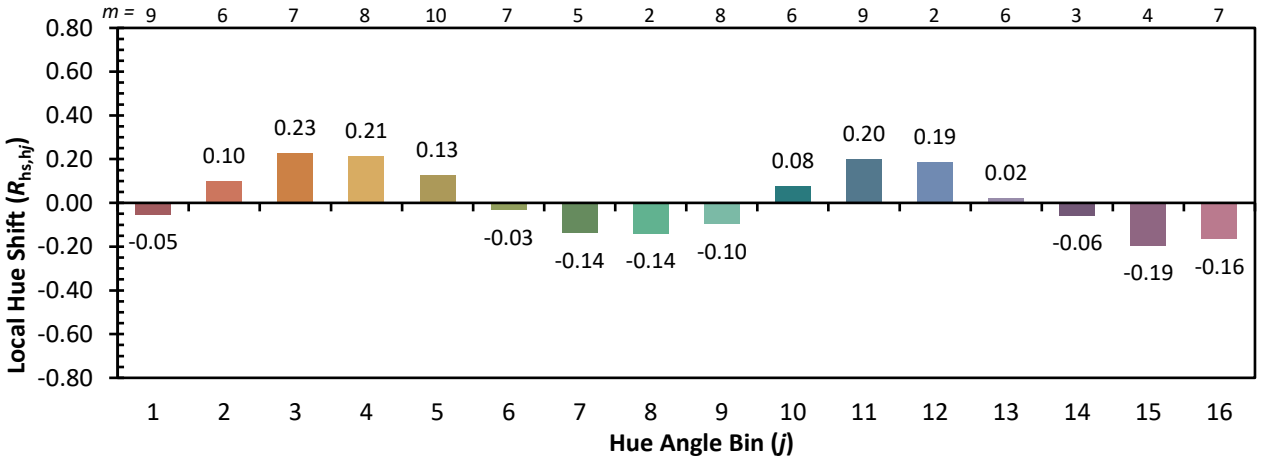


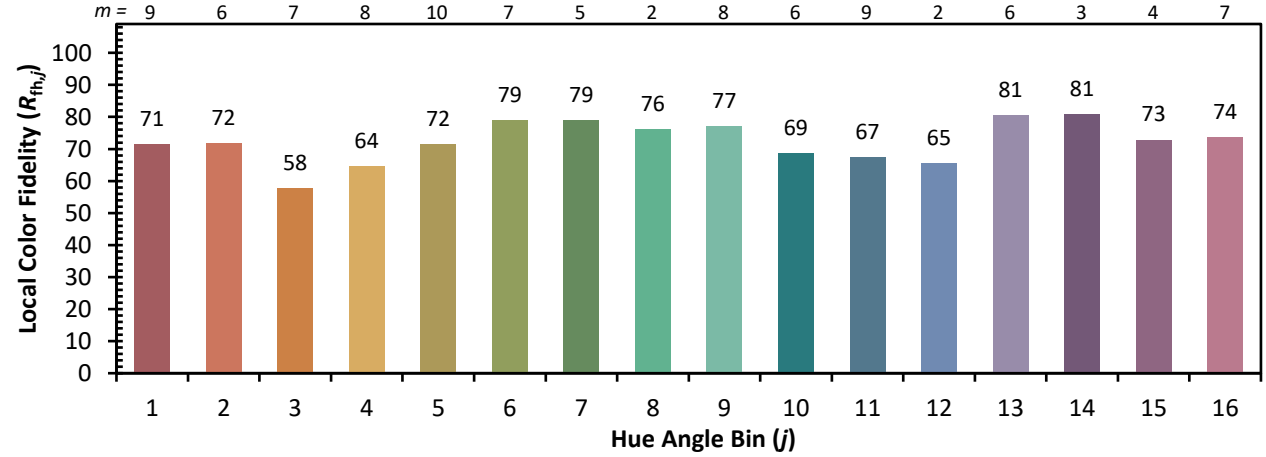
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## Color Rendition by Hue-Angle Bin



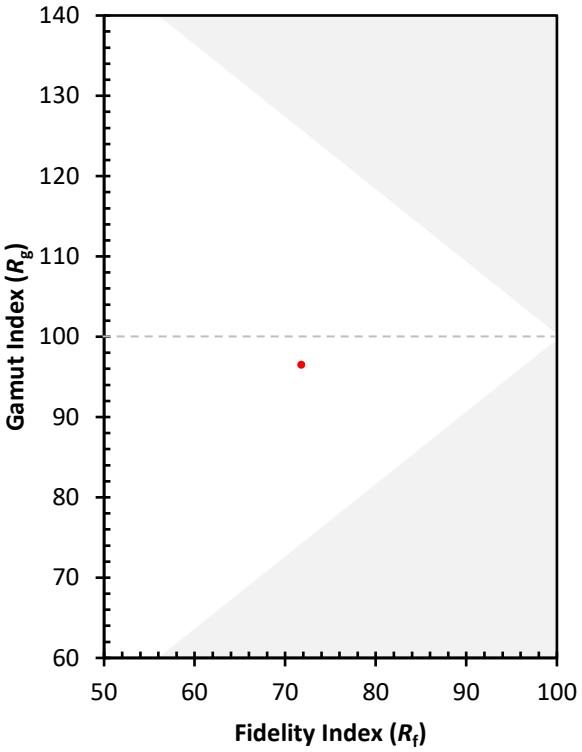



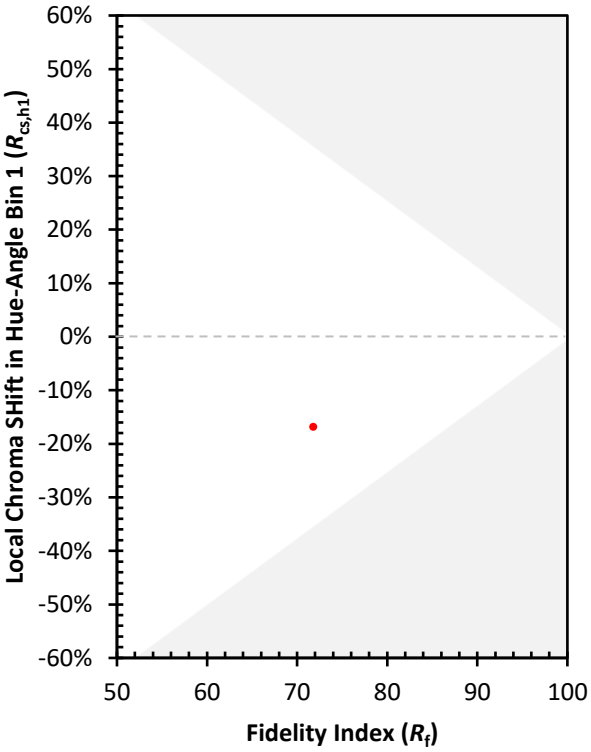



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## Measure Comparisons




(END OF REPORT)