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: P1359916

Luminaire Tested: **GSS-SB6B-740-U-T3**

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: | P1359916 |
| Test Lab: | INNOVATION CENTER(G3) |
| Issue Date: | 02/18/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB6B-740-U-T3 |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 6SQUARE 219W 70CRI 4000K FIXTURE w/ TYPE III DISTRIBUTION OPTIC |
| Light Source: | (156) 4000K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 34004.5 lumens |
| Efficiency: | N/A |
| Efficacy: | 155.3 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1' x H: 0') |
| IES Classification: | Type III - Short |
| BUG Rating: | B3 - U0 - G4 |

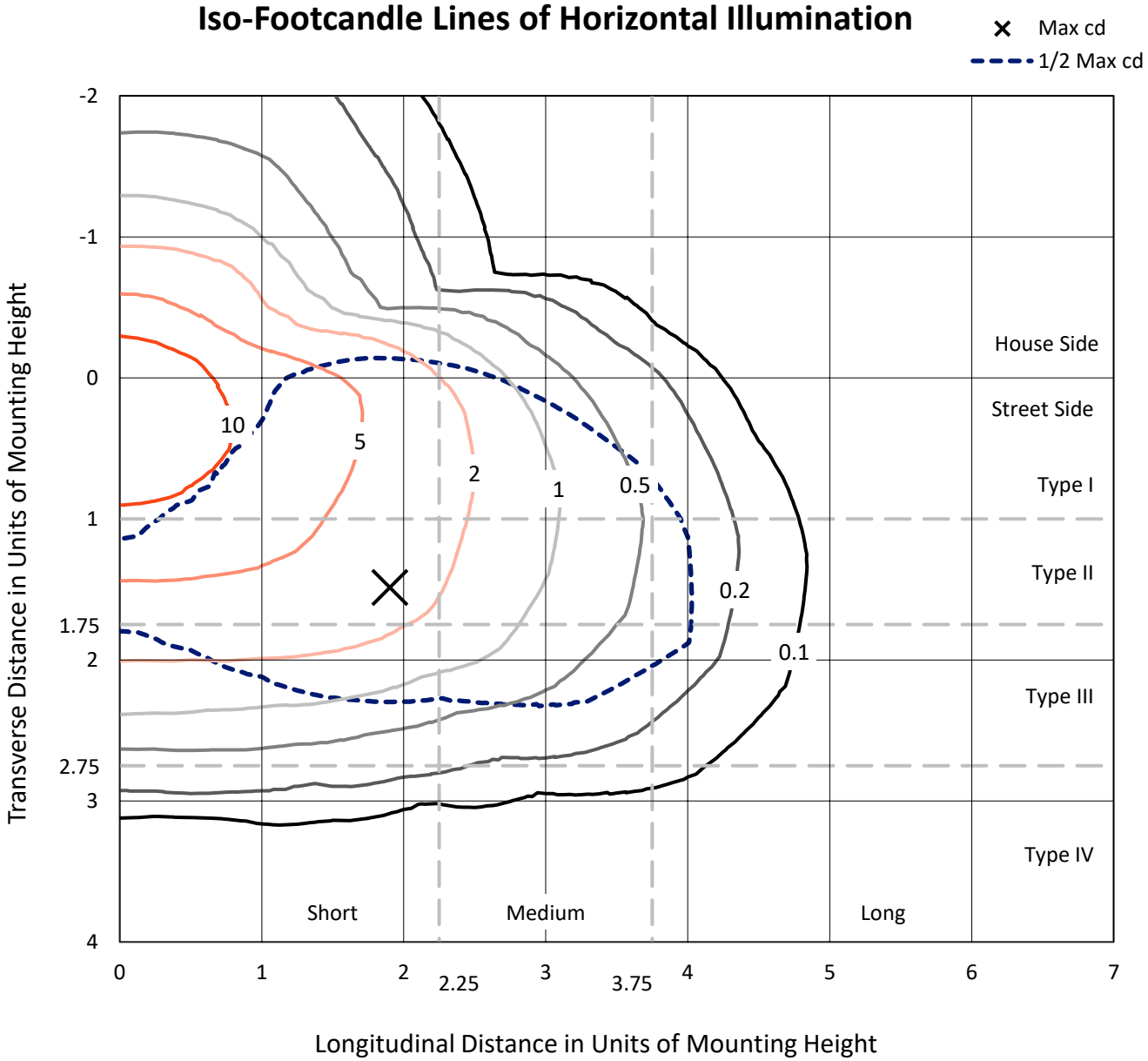
| | |
|---|---|
| Input Watts (W): | 219 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 8.7% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

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Scaled Data Report

REPORT NUMBER: P1359916
CATALOG NUMBER: GSS-SB6B-740-U-T3

## Iso-Footcandle Lines of Horizontal Illumination



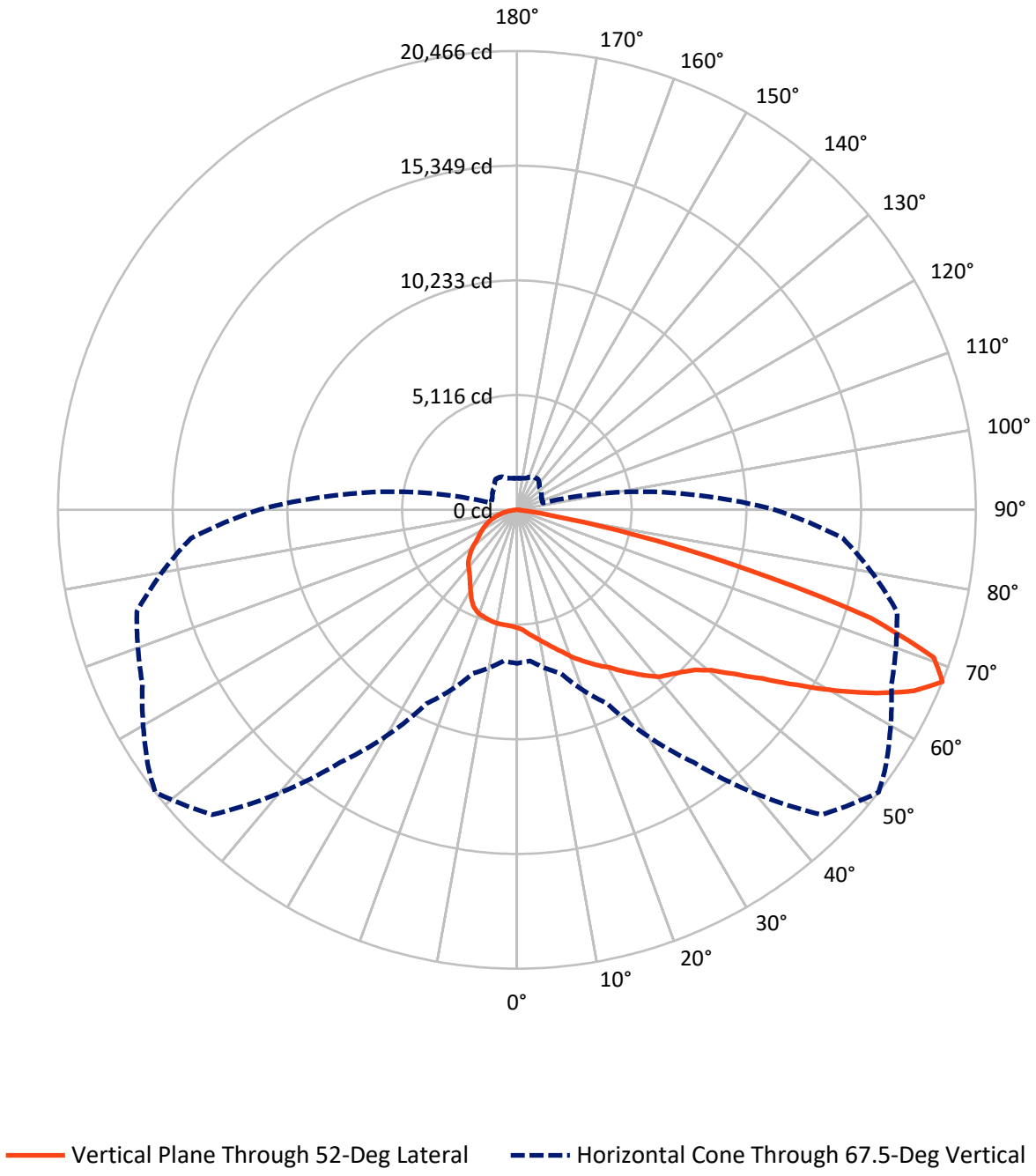

Based on 20 foot mounting height. Maximum calculated value = 14.9 fc
Type III - Short - N/A

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## Luminous Intensity Polar Plot



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Scaled Data Report

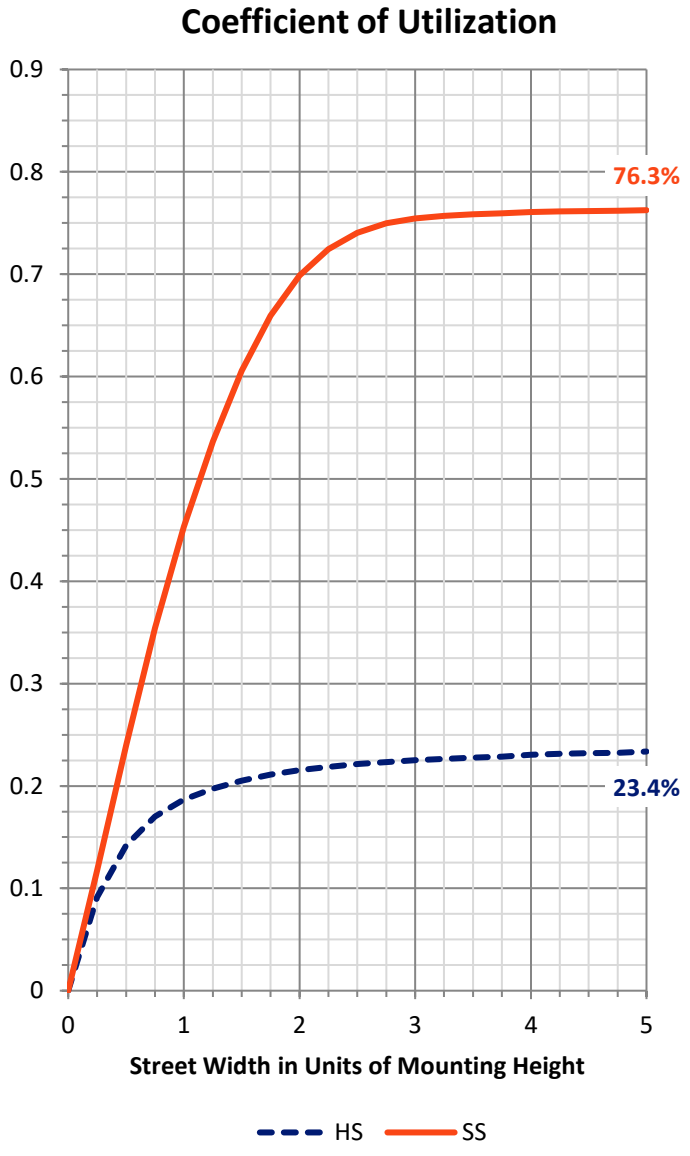
REPORT NUMBER: P1359916
CATALOG NUMBER: GSS-SB6B-740-U-T3

**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 8044.9 | 0.0 | 8044.9 |
| | % Fixture | 23.7 | 0.0 | 23.7 |
| **Street Side** | Lumens | 25959.6 | 0.0 | 25959.6 |
| | % Fixture | 76.3 | 0.0 | 76.3 |
| **Total** | Lumens | 34004.5 | 0.0 | 34004.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 516.0 | 1.5 |
| 10°-20° | 1627.5 | 4.8 |
| 20°-30° | 2782.5 | 8.2 |
| 30°-40° | 4036.5 | 11.9 |
| 40°-50° | 5243.4 | 15.4 |
| 50°-60° | 7104.5 | 20.9 |
| 60°-70° | 8287.3 | 24.4 |
| 70°-80° | 4086.0 | 12.0 |
| 80°-90° | 320.7 | 0.9 |
| 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° | 34004.5 | 100.0 |
| 0°-180° | 34004.5 | 100.0 |



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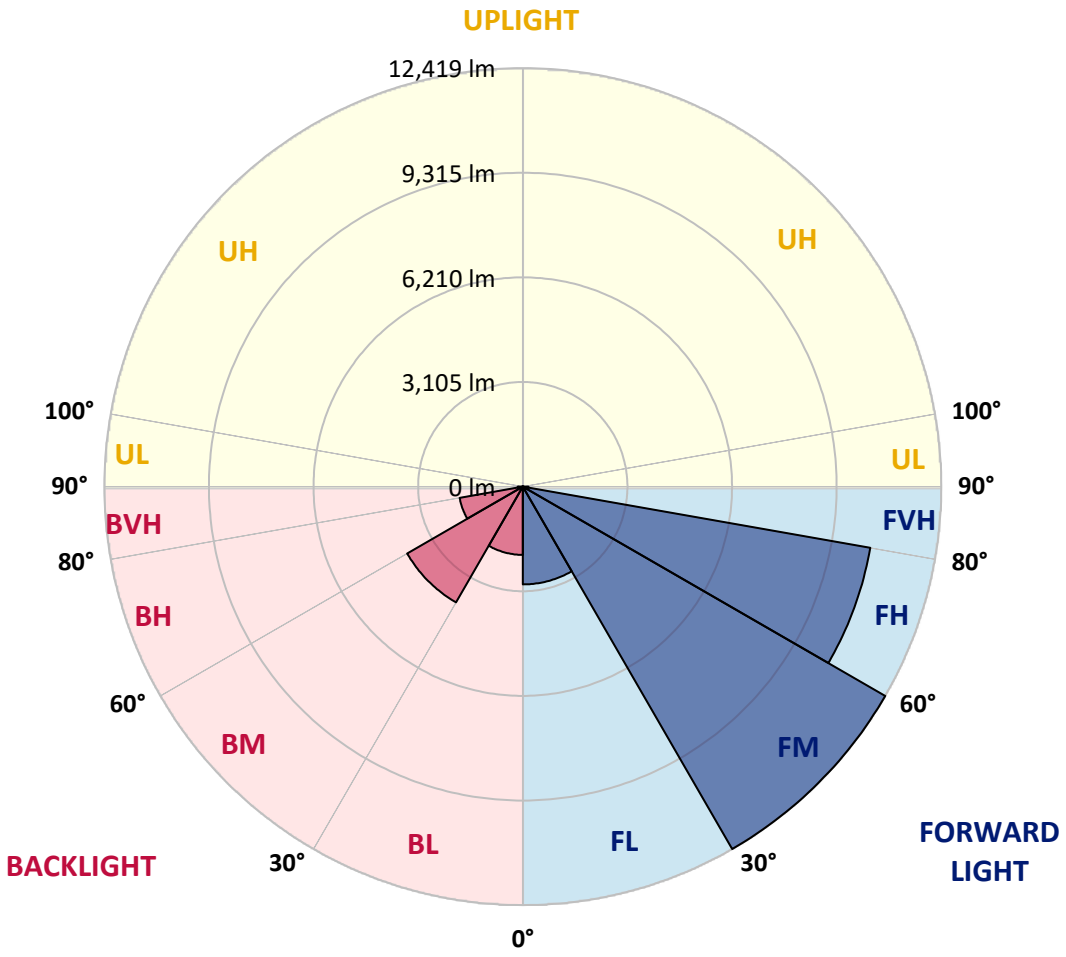
Scaled Data Report

REPORT NUMBER: P1359916
CATALOG NUMBER: GSS-SB6B-740-U-T3

## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 2900.9 | 8.5 | | | |
| FM | (30°-60°) | 12419.5 | 36.5 | | | |
| FH | (60°-80°) | 10470.8 | 30.8 | | | G4/12000 |
| FVH | (80°-90°) | 168.3 | 0.5 | | | G2/225 |
| BL | (0°-30°) | 2025.1 | 6.0 | B3/2500 | | |
| BM | (30°-60°) | 3965.0 | 11.7 | B3/5000 | | |
| BH | (60°-80°) | 1902.4 | 5.6 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 152.4 | 0.4 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B3-U0-G4**
Type III Short



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Scaled Data Report

REPORT NUMBER: P1359916
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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 52° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 5262.2 | 5262.2 | 5262.2 | 5262.2 | 5262.2 | 5262.2 | *5262.2* | 5262.2 | 5262.2 | 5262.2 | 5262.2 |
| 2.5° | 5421.2 | 5413.6 | 5406.1 | 5375.8 | 5375.8 | 5383.3 | *5368.2* | 5375.8 | 5368.2 | 5330.3 | 5300.1 |
| 5° | 5724.1 | 5655.9 | 5640.8 | 5625.6 | 5640.8 | 5595.3 | *5557.5* | 5534.8 | 5451.5 | 5428.8 | 5337.9 |
| 7.5° | 5852.8 | 5860.4 | 5852.8 | 5822.5 | 5799.8 | 5799.8 | *5739.2* | 5708.9 | 5655.9 | 5565.1 | 5413.6 |
| 10° | 6034.5 | 6026.9 | 6004.2 | 6019.4 | 6064.8 | 5989.1 | *5943.6* | 5920.9 | 5830.1 | 5701.4 | 5557.5 |
| 12.5° | 6360.1 | 6307.1 | 6291.9 | 6269.2 | 6261.6 | 6216.2 | *6163.2* | 6170.8 | 6064.8 | 5867.9 | 5716.5 |
| 15° | 6640.2 | 6579.6 | 6647.8 | 6602.4 | 6541.8 | 6473.6 | *6420.6* | 6375.2 | 6254.1 | 6072.4 | 5883.1 |
| 17.5° | 6905.2 | 6874.9 | 6905.2 | 6905.2 | 6897.6 | 6784.1 | *6678.1* | 6640.2 | 6496.4 | 6291.9 | 6042.1 |
| 20° | 7109.7 | 7109.7 | 7162.7 | 7162.7 | 7139.9 | 7071.8 | *7003.7* | 6958.2 | 6753.8 | 6488.8 | 6201.1 |
| 22.5° | 7374.7 | 7253.5 | 7367.1 | 7374.7 | 7382.2 | 7329.2 | *7283.8* | 7223.2 | 7011.2 | 6693.2 | 6329.8 |
| 25° | 7624.5 | 7526.1 | 7594.2 | 7548.8 | 7579.1 | 7601.8 | *7579.1* | 7556.4 | 7321.7 | 6958.2 | 6519.1 |
| 27.5° | 8018.2 | 7919.8 | 7965.2 | 7859.2 | 7859.2 | 7836.5 | *7874.4* | 7904.7 | 7647.2 | 7215.7 | 6685.6 |
| 30° | 8608.8 | 8495.2 | 8457.4 | 8328.7 | 8200.0 | 8146.9 | *8162.1* | 8215.1 | 8040.9 | 7465.5 | 6852.2 |
| 32.5° | 9116.1 | 9055.5 | 9025.2 | 8919.2 | 8760.2 | 8518.0 | *8555.8* | 8555.8 | 8374.1 | 7647.2 | 6935.5 |
| 35° | 9532.5 | 9517.4 | 9525.0 | 9381.1 | 9350.8 | 8957.1 | *8957.1* | 8942.0 | 8608.8 | 7889.5 | 7155.1 |
| 37.5° | 9805.1 | 9721.8 | 9759.7 | 9812.7 | 9714.3 | 9449.3 | *9381.1* | 9343.2 | 8934.4 | 8146.9 | 7442.8 |
| 40° | 9744.5 | 9684.0 | 9827.8 | 9926.3 | 9850.5 | 9797.5 | *9790.0* | 9714.3 | 9260.0 | 8472.5 | 7866.8 |
| 42.5° | 9737.0 | 9684.0 | 9858.1 | 9964.1 | 9926.3 | 10009.5 | *10032.3* | 10085.3 | 9676.4 | 8987.4 | 8472.5 |
| 45° | 9767.3 | 9744.5 | 10032.3 | 10168.5 | 10077.7 | 10191.3 | *10320.0* | 10365.4 | 10206.4 | 9615.8 | 9229.7 |
| 47.5° | 10017.1 | 9986.8 | 10320.0 | 10479.0 | 10554.7 | 10751.6 | *10668.3* | 10744.0 | 10834.8 | 10509.3 | 10100.4 |
| 50° | 10259.4 | 10289.7 | 10736.4 | 10887.8 | 11258.8 | 11531.4 | *11243.7* | 11364.8 | 11667.7 | 11546.6 | 11266.4 |
| 52.5° | 10645.5 | 10653.1 | 11092.3 | 11470.8 | 12182.6 | 12440.0 | *12159.9* | 12175.0 | 12583.9 | 12811.0 | 12440.0 |
| 55° | 10744.0 | 10827.3 | 11417.8 | 12205.3 | 13227.4 | 13409.2 | *13280.4* | 13227.4 | 13712.0 | 14022.4 | 13621.2 |
| 57.5° | 10736.4 | 10691.0 | 11425.4 | 12515.7 | 14022.4 | 14666.0 | *14741.7* | 14597.9 | 15006.7 | 15135.5 | 14915.9 |
| 60° | 10456.3 | 10547.1 | 11349.7 | 12735.3 | 14764.5 | 16195.5 | *16377.2* | 16187.9 | 16384.8 | 16422.6 | 15809.3 |
| 62.5° | 9600.7 | 9631.0 | 10728.8 | 12742.9 | 15347.5 | 17467.5 | *18005.1* | 17793.1 | 17611.3 | 17141.9 | 16006.2 |
| 65° | 8207.5 | 8154.5 | 9207.0 | 11690.4 | 15453.5 | 18694.1 | *19466.4* | 19466.4 | 18285.2 | 17384.2 | 15589.7 |
| 67.5° | *6844.6* | *6761.4* | *7548.8* | *9532.5* | *13757.4* | *19231.6* | *20465.8* | *20064.5* | *18429.1* | *17550.8* | *14597.9* |
| 70° | 3301.2 | 3535.9 | 4739.8 | 6746.2 | 10516.8 | 16240.9 | *19723.8* | 19875.2 | 18315.5 | 17028.3 | 12674.7 |
| 72.5° | 1181.2 | 1128.2 | 1703.6 | 2892.3 | 5822.5 | 10600.1 | *16513.5* | 17846.1 | 17520.5 | 15529.2 | 10380.5 |
| 75° | 545.1 | 552.7 | 711.7 | 1007.0 | 1885.3 | 5171.3 | *10501.7* | 12288.6 | 15006.7 | 12909.4 | 7768.4 |
| 77.5° | 424.0 | 424.0 | 484.6 | 575.4 | 779.9 | 1673.3 | *5368.2* | 6897.6 | 9699.1 | 7995.5 | 3702.5 |
| 80° | 310.4 | 318.0 | 325.6 | 378.6 | 477.0 | 628.4 | *1597.6* | 2392.6 | 3535.9 | 2566.7 | 1203.9 |
| 82.5° | 219.6 | 219.6 | 212.0 | 212.0 | 257.4 | 280.1 | *431.6* | 605.7 | 1037.3 | 704.2 | 318.0 |
| 85° | 90.9 | 106.0 | 90.9 | 90.9 | 90.9 | 113.6 | *136.3* | 159.0 | 227.1 | 196.9 | 136.3 |
| 87.5° | 15.1 | 15.1 | 15.1 | 22.7 | 30.3 | 37.9 | *45.4* | 53.0 | 60.6 | 60.6 | 60.6 |
| 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: P1359916
CATALOG NUMBER: GSS-SB6B-740-U-T3

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 5262.2 | 5262.2 | 5262.2 | 5262.2 | 5262.2 | 5262.2 | 5262.2 | 5262.2 | 5262.2 | 5262.2 | 5262.2 |
| 2.5° | 5284.9 | 5284.9 | 5262.2 | 5224.3 | 5209.2 | 5186.5 | 5178.9 | 5171.3 | 5156.2 | 5186.5 | 5171.3 |
| 5° | 5315.2 | 5284.9 | 5254.6 | 5194.1 | 5186.5 | 5148.6 | 5110.8 | 5103.2 | 5080.5 | 5103.2 | 5103.2 |
| 7.5° | 5383.3 | 5337.9 | 5269.8 | 5209.2 | 5156.2 | 5148.6 | 5080.5 | 5019.9 | 5019.9 | 5027.5 | 5019.9 |
| 10° | 5504.5 | 5451.5 | 5383.3 | 5269.8 | 5171.3 | 5080.5 | 4966.9 | 4891.2 | 4898.8 | 4898.8 | 4883.6 |
| 12.5° | 5663.5 | 5587.8 | 5466.6 | 5300.1 | 5148.6 | 5004.8 | 4868.5 | 4845.8 | 4838.2 | 4853.3 | 4807.9 |
| 15° | 5784.6 | 5716.5 | 5519.6 | 5330.3 | 5095.6 | 4951.8 | 4807.9 | 4754.9 | 4762.5 | 4747.3 | 4709.5 |
| 17.5° | 5936.1 | 5830.1 | 5587.8 | 5307.6 | 5035.1 | 4898.8 | 4732.2 | 4618.6 | 4558.1 | 4565.6 | 4558.1 |
| 20° | 6079.9 | 5928.5 | 5640.8 | 5307.6 | 5019.9 | 4777.6 | 4565.6 | 4414.2 | 4285.5 | 4262.8 | 4255.2 |
| 22.5° | 6185.9 | 6034.5 | 5701.4 | 5315.2 | 4929.1 | 4641.3 | 4330.9 | 4134.0 | 3944.8 | 3914.5 | 3906.9 |
| 25° | 6337.4 | 6140.5 | 5769.5 | 5262.2 | 4807.9 | 4414.2 | 4028.0 | 3808.5 | 3641.9 | 3611.6 | 3611.6 |
| 27.5° | 6466.1 | 6254.1 | 5860.4 | 5209.2 | 4611.1 | 4103.8 | 3740.3 | 3520.8 | 3414.8 | 3361.8 | 3361.8 |
| 30° | 6602.4 | 6367.6 | 5936.1 | 5050.2 | 4346.0 | 3793.3 | 3513.2 | 3369.3 | 3248.2 | 3195.2 | 3172.5 |
| 32.5° | 6753.8 | 6556.9 | 5951.2 | 4891.2 | 4081.0 | 3588.9 | 3354.2 | 3233.0 | 3104.3 | 3028.6 | 3021.0 |
| 35° | 6943.1 | 6799.2 | 5898.2 | 4656.5 | 3816.0 | 3429.9 | 3202.8 | 3066.5 | 2937.7 | 2862.0 | 2877.2 |
| 37.5° | 7245.9 | 7079.4 | 5739.2 | 4323.3 | 3596.5 | 3331.5 | 3081.6 | 2884.7 | 2733.3 | 2612.2 | 2619.7 |
| 40° | 7692.7 | 7420.1 | 5504.5 | 3922.0 | 3437.5 | 3217.9 | 2937.7 | 2710.6 | 2491.0 | 2309.3 | 2309.3 |
| 42.5° | 8200.0 | 7722.9 | 5216.8 | 3551.0 | 3316.3 | 3074.0 | 2786.3 | 2498.6 | 2188.2 | 1998.9 | 1991.3 |
| 45° | 8767.8 | 7987.9 | 4883.6 | 3248.2 | 3119.5 | 2899.9 | 2589.5 | 2180.6 | 1976.2 | 1877.7 | 1870.2 |
| 47.5° | 9525.0 | 8275.7 | 4489.9 | 2983.2 | 2892.3 | 2725.7 | 2294.2 | 1998.9 | 1877.7 | 1802.0 | 1794.4 |
| 50° | 10236.7 | 8586.1 | 4164.3 | 2725.7 | 2650.0 | 2521.3 | 2089.7 | 1923.2 | 1824.7 | 1764.2 | 1749.0 |
| 52.5° | 11062.0 | 8904.1 | 3800.9 | 2475.9 | 2377.5 | 2203.3 | 2044.3 | 1885.3 | 1794.4 | 1749.0 | 1733.9 |
| 55° | 11879.7 | 9350.8 | 3399.6 | 2248.7 | 2135.2 | 2059.5 | 1998.9 | 1862.6 | 1771.7 | 1741.4 | 1718.7 |
| 57.5° | 12811.0 | 9782.4 | 2907.5 | 2006.5 | 1961.0 | 1953.5 | 1991.3 | 1855.0 | 1779.3 | 1726.3 | 1696.0 |
| 60° | 13295.6 | 9971.7 | 2392.6 | 1786.9 | 1794.4 | 1839.9 | 1961.0 | 1855.0 | 1733.9 | 1643.0 | 1605.2 |
| 62.5° | 13129.0 | 9585.5 | 1892.9 | 1567.3 | 1635.4 | 1718.7 | 1908.0 | 1786.9 | 1635.4 | 1567.3 | 1521.9 |
| 65° | 12462.7 | 8926.8 | 1476.4 | 1378.0 | 1491.6 | 1567.3 | 1779.3 | 1688.4 | 1537.0 | 1468.9 | 1461.3 |
| 67.5° | *11501.1* | *7783.5* | *1196.3* | *1211.4* | *1325.0* | *1423.4* | *1665.7* | *1627.9* | *1453.7* | *1408.3* | *1408.3* |
| 70° | 9668.8 | 6254.1 | 984.3 | 1060.0 | 1158.4 | 1264.4 | 1582.4 | 1529.4 | 1347.7 | 1325.0 | 1325.0 |
| 72.5° | 7556.4 | 4414.2 | 840.4 | 931.3 | 961.6 | 1113.0 | 1468.9 | 1415.9 | 1309.9 | 1362.9 | 1370.4 |
| 75° | 5330.3 | 2687.9 | 719.3 | 787.4 | 817.7 | 916.2 | 1362.9 | 1385.6 | 1287.2 | 1461.3 | 1491.6 |
| 77.5° | 2422.9 | 1181.2 | 560.3 | 620.9 | 658.7 | 779.9 | 1173.6 | 1287.2 | 1113.0 | 1113.0 | 1052.4 |
| 80° | 848.0 | 499.7 | 446.7 | 446.7 | 477.0 | 605.7 | 976.7 | 1060.0 | 893.4 | 787.4 | 757.2 |
| 82.5° | 310.4 | 272.6 | 333.1 | 333.1 | 302.9 | 371.0 | 651.2 | 704.2 | 643.6 | 560.3 | 552.7 |
| 85° | 121.1 | 128.7 | 204.4 | 204.4 | 151.4 | 181.7 | 363.4 | 378.6 | 363.4 | 318.0 | 318.0 |
| 87.5° | 53.0 | 53.0 | 60.6 | 60.6 | 53.0 | 45.4 | 68.1 | 68.1 | 45.4 | 30.3 | 15.1 |
| 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

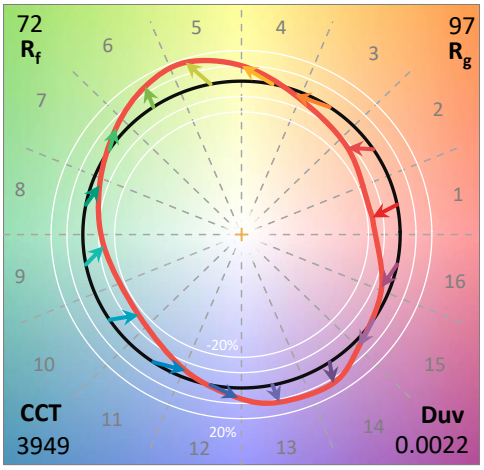
## Test Information

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

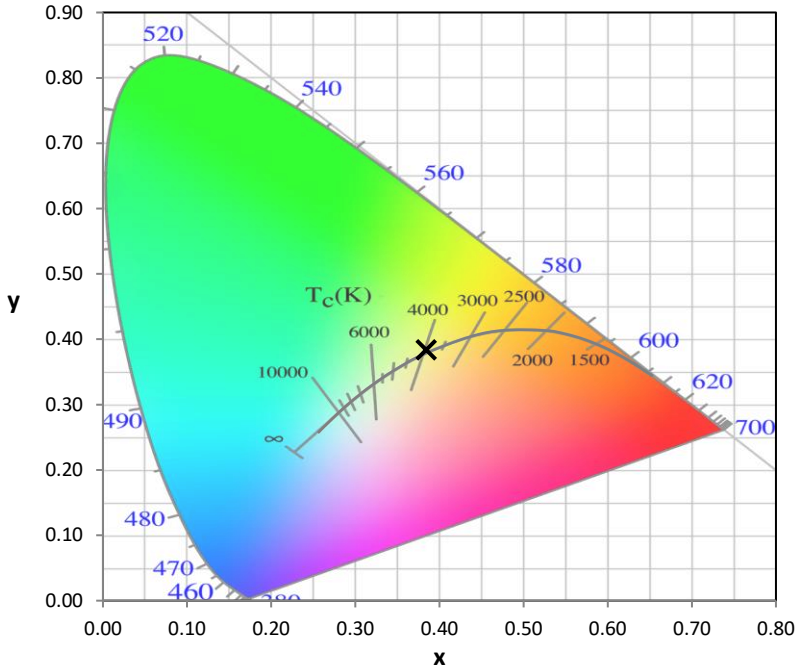
| | |
|---|---|
| Stabilization Time: | 34M |
| Operation Time: | 1H 34M |
| Sphere Temperature (°C): | 25.2 |

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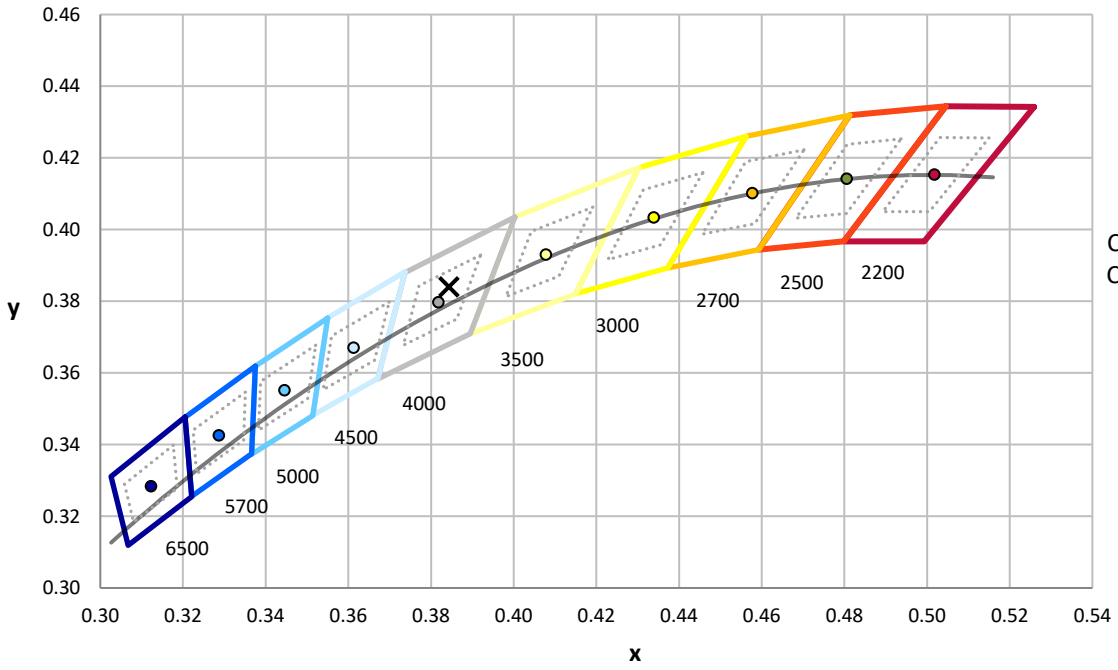
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC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

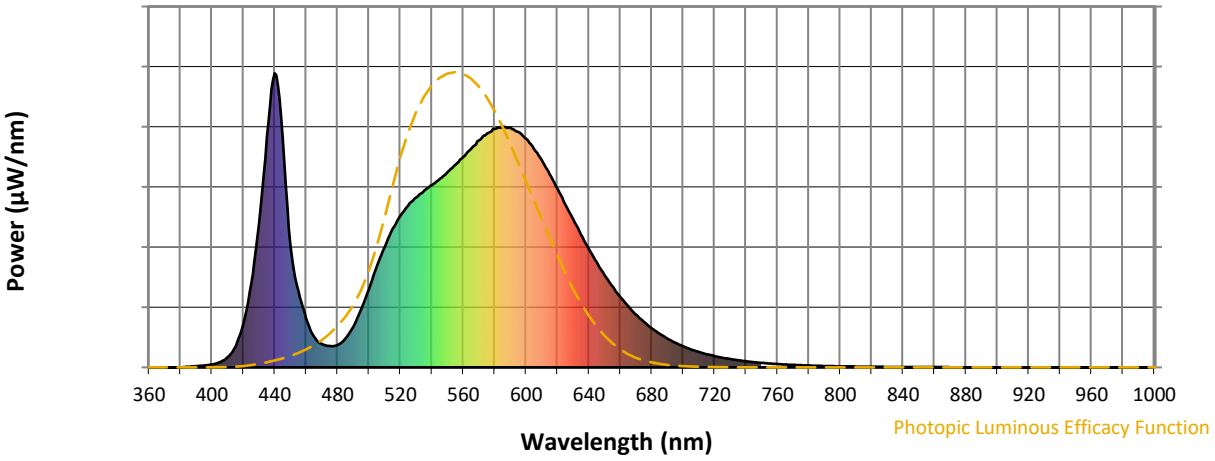



CCT = 3949K
CIE x = 0.3844
CIE y = 0.3840
Duv = 0.0022

Point lies inside the ANSI 4000K 4-step quadrangle

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## Photopic Flux vs. Wavelength

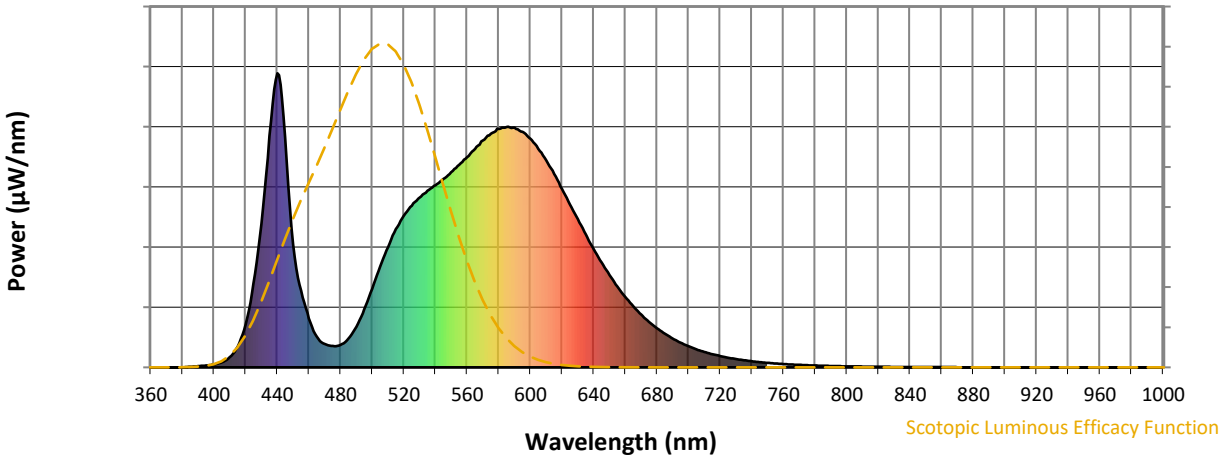



## Photopic Lumens: NR

| 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

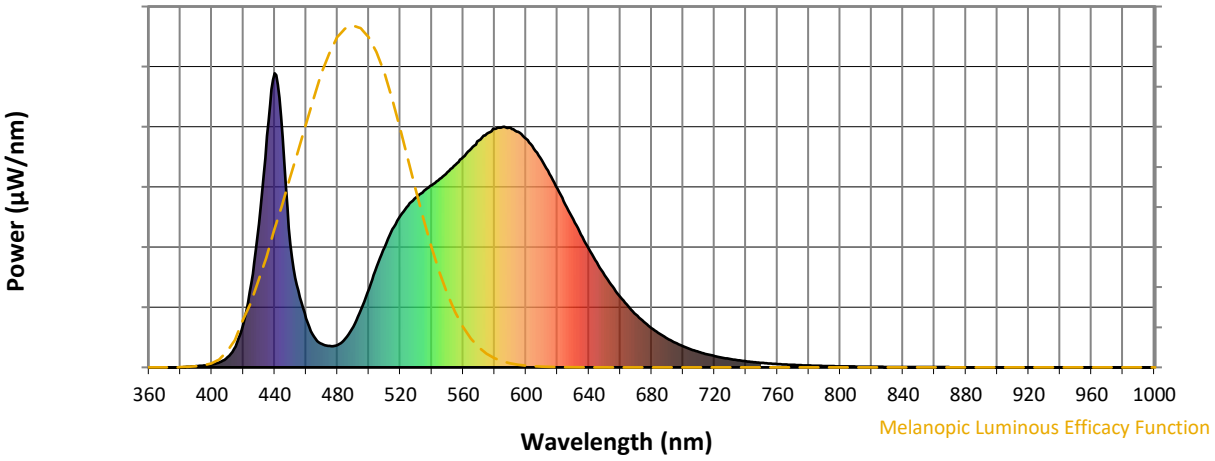



**Scotopic Lumens: NR** **S/P: 1.47**

| 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 | | | |

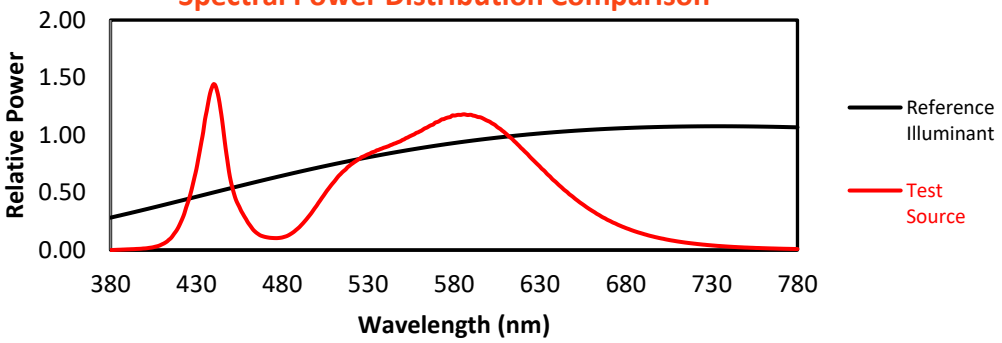
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# TM-30-18

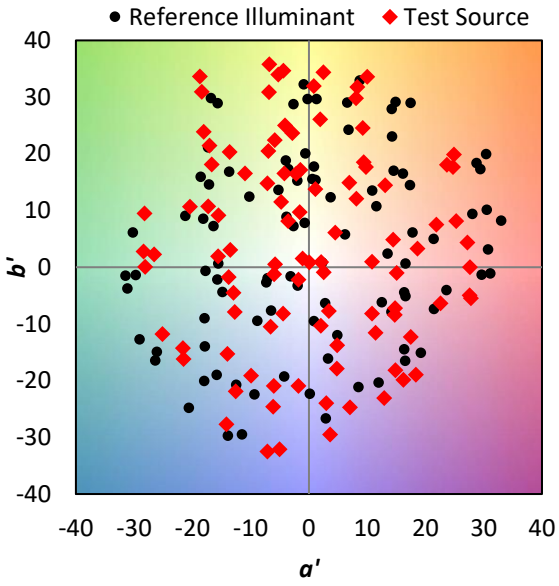
## Summary

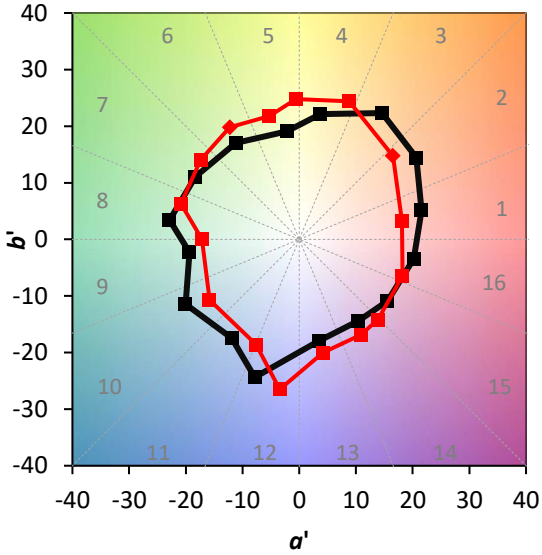
$R_f$ = 71.8
$R_g$ = 96.5
CIE $R_a$ = 70.7
$R_9$ = -36.7

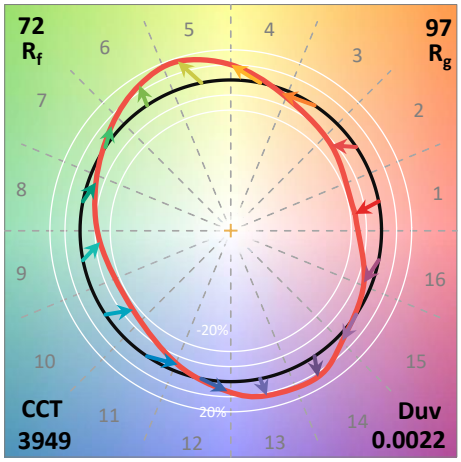
## Spectral Power Distribution Comparison

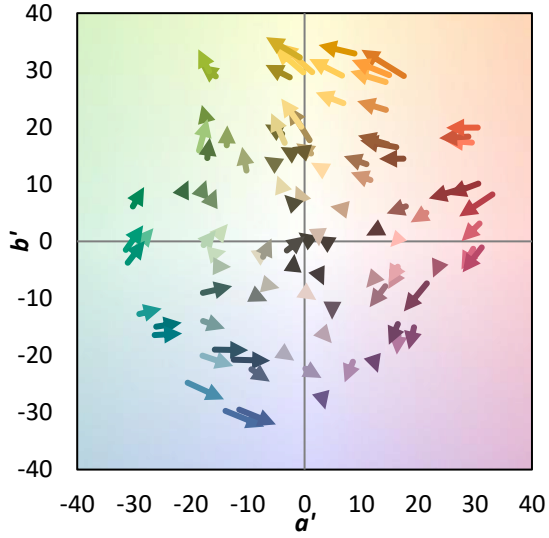



## Color Vector Graphics



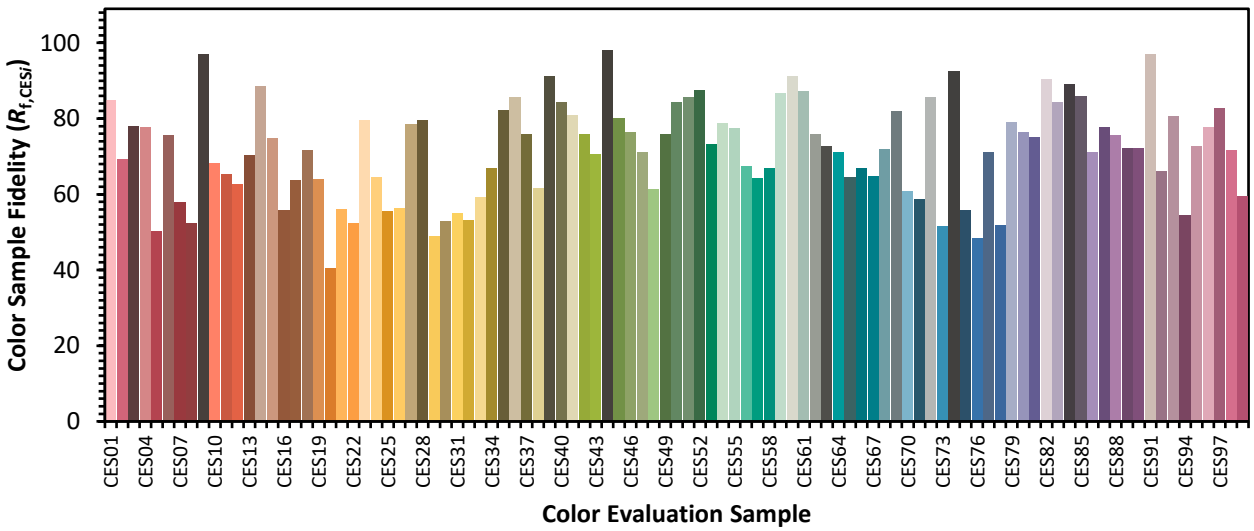



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**Individual Sample Fidelity Index ($R_{f,i}$)**

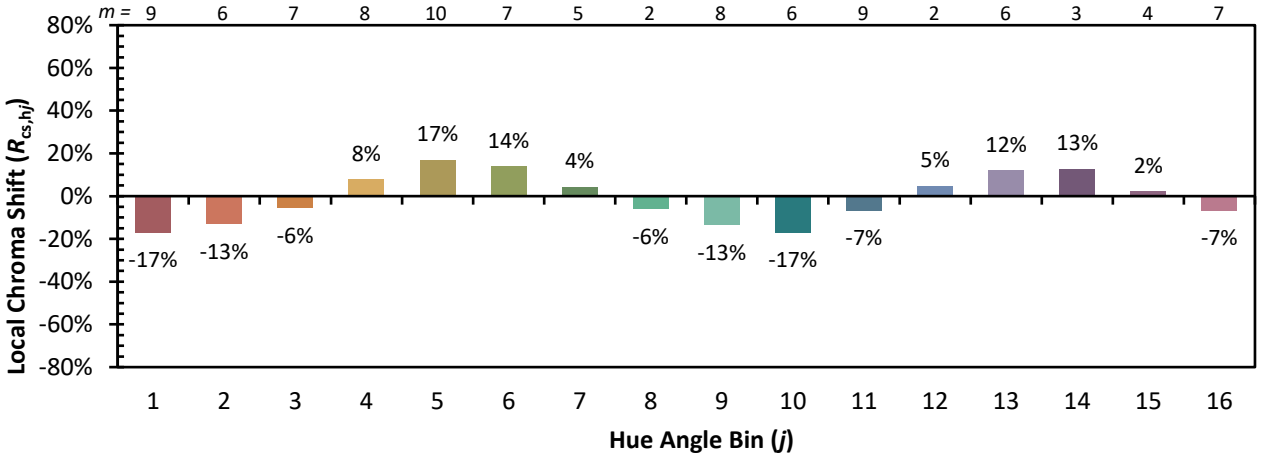
| | | | |
|---|---|---|---|
| CES01 = 85 | CES26 = 56 | CES51 = 86 | CES76 = 48 |
| CES02 = 61 | CES27 = 79 | CES52 = 88 | CES77 = 71 |
| CES03 = 30 | CES28 = 80 | CES53 = 73 | CES78 = 52 |
| CES04 = 70 | CES29 = 49 | CES54 = 79 | CES79 = 79 |
| CES05 = 47 | CES30 = 53 | CES55 = 77 | CES80 = 77 |
| CES06 = 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 | |

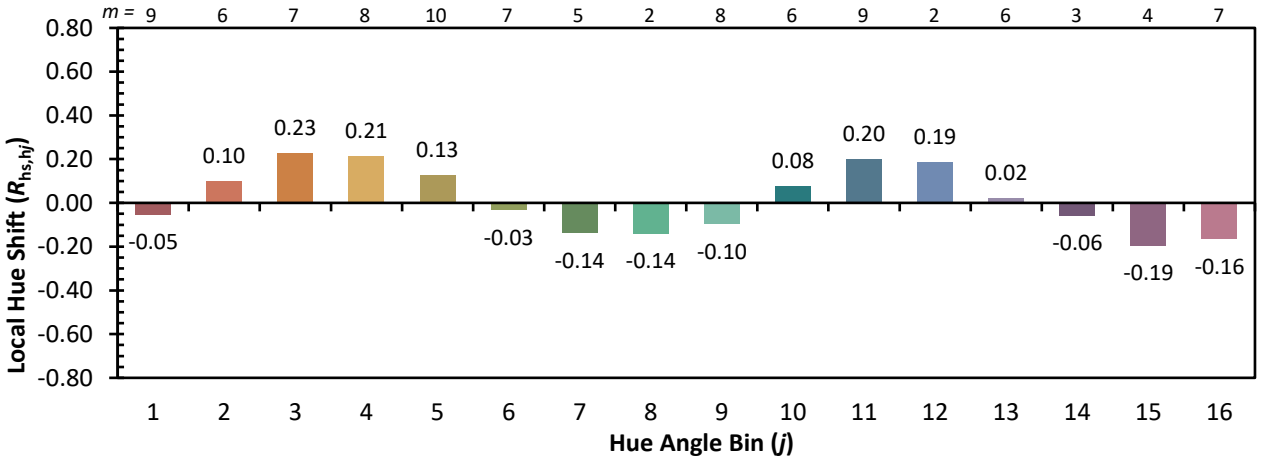


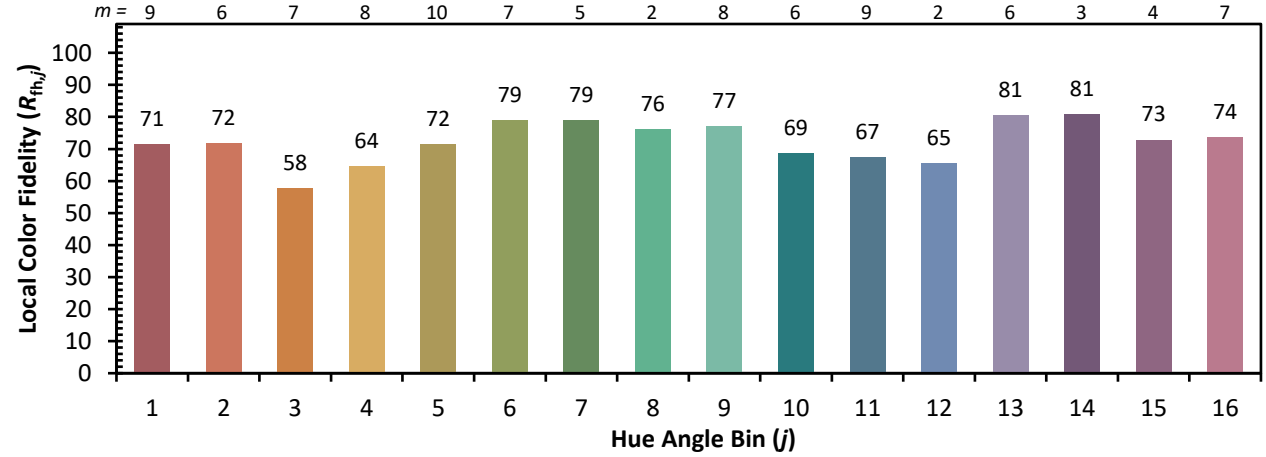
REPORT NUMBER: SP1-2407-184-1

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## Color Rendition by Hue-Angle Bin



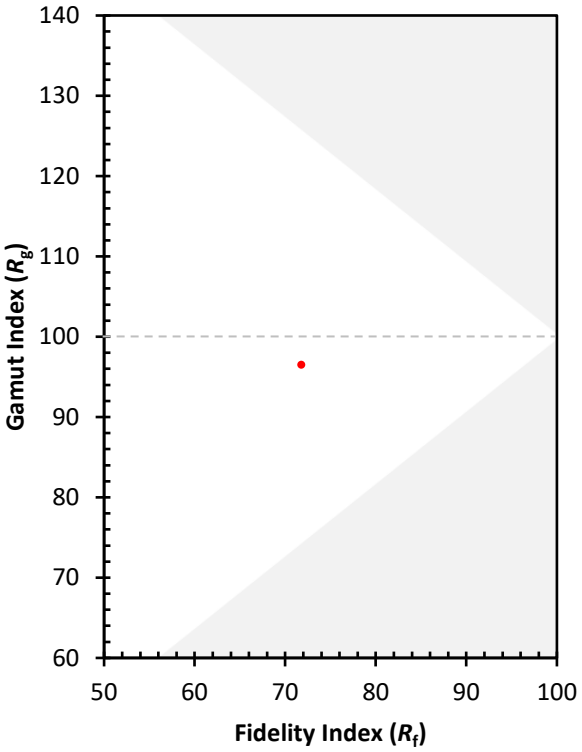



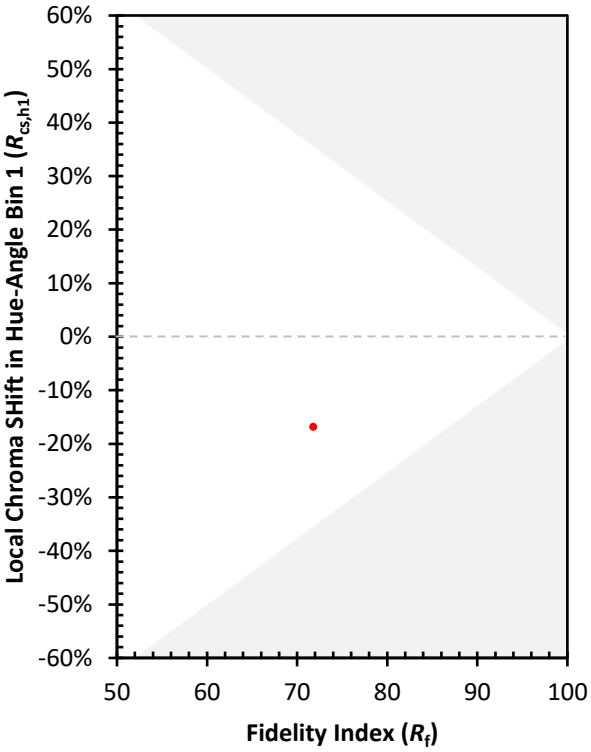



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## Measure Comparisons




(END OF REPORT)