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: P1359917

Luminaire Tested: **GSS-SB6C-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: | P1359917 |
| Test Lab: | INNOVATION CENTER(G3) |
| Issue Date: | 02/18/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB6C-740-U-T3 |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 6SQUARE 300W 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: | 44842.6 lumens |
| Efficiency: | N/A |
| Efficacy: | 149.5 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1' x H: 0') |
| IES Classification: | Type III - Short |
| BUG Rating: | B4 - U0 - G5 |

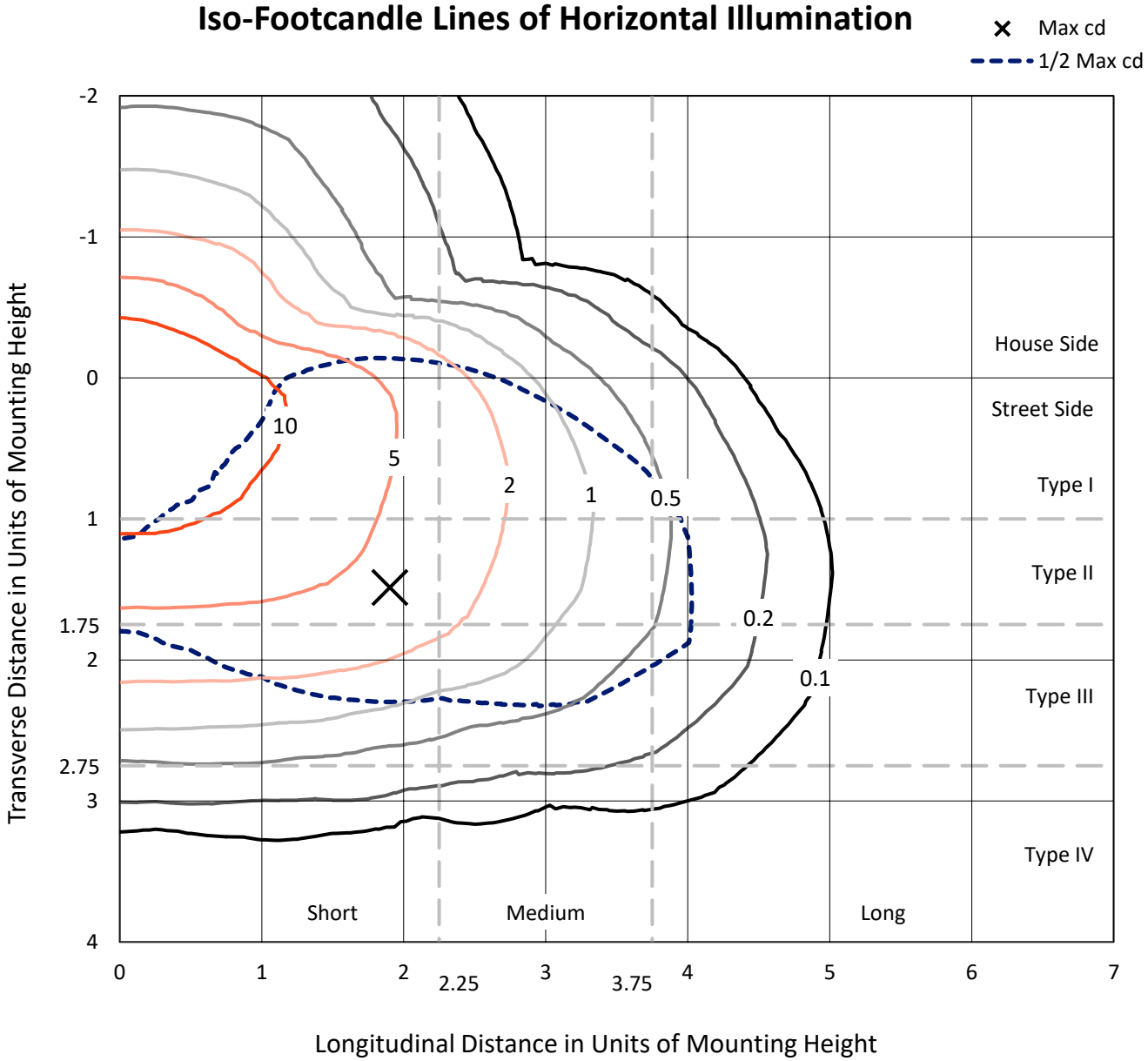
| | |
|---|---|
| Input Watts (W): | 300 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 6.3% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature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

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Scaled Data Report

REPORT NUMBER: P1359917
CATALOG NUMBER: GSS-SB6C-740-U-T3

## Iso-Footcandle Lines of Horizontal Illumination



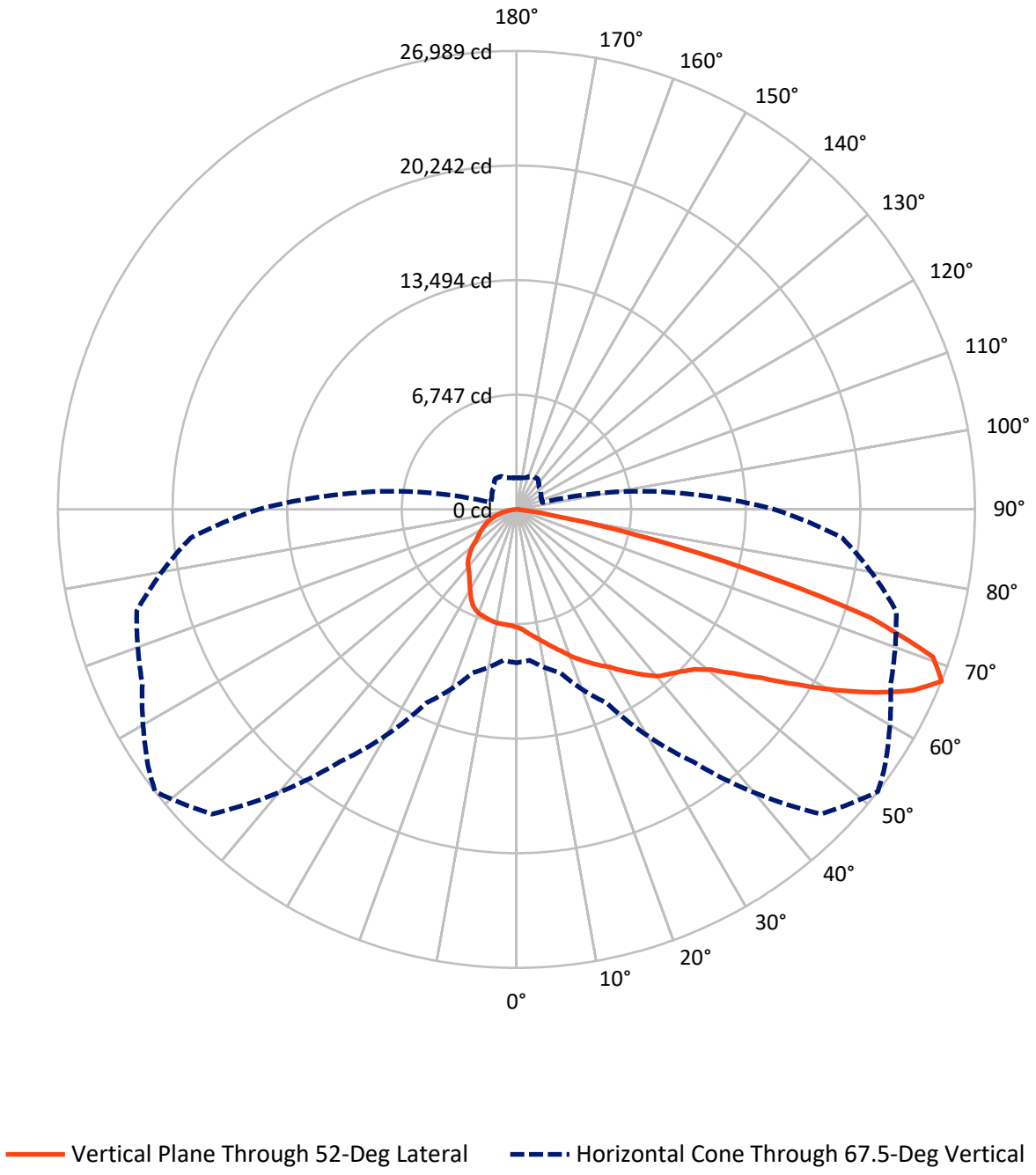

Based on 20 foot mounting height. Maximum calculated value = 19.7 fc
Type III - Short - N/A

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REPORT NUMBER: P1359917
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## Luminous Intensity Polar Plot



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Scaled Data Report

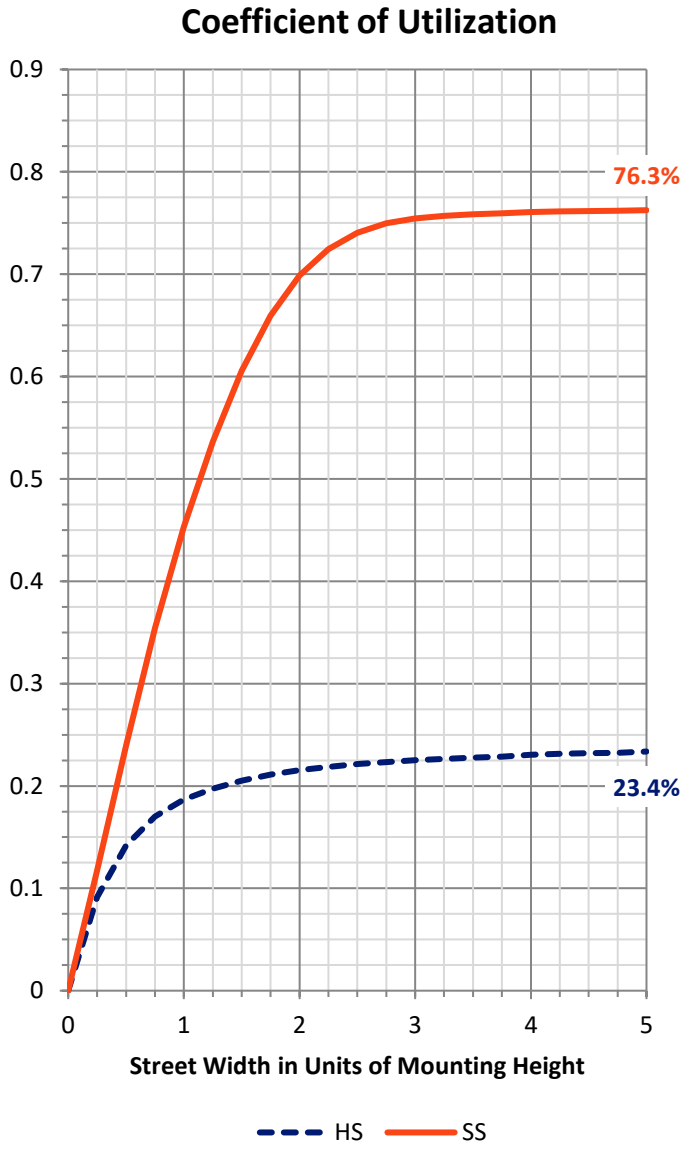
REPORT NUMBER: P1359917
CATALOG NUMBER: GSS-SB6C-740-U-T3

**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 10609.0 | 0.0 | 10609.0 |
| | % Fixture | 23.7 | 0.0 | 23.7 |
| **Street Side** | Lumens | 34233.6 | 0.0 | 34233.6 |
| | % Fixture | 76.3 | 0.0 | 76.3 |
| **Total** | Lumens | 44842.6 | 0.0 | 44842.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 680.4 | 1.5 |
| 10°-20° | 2146.2 | 4.8 |
| 20°-30° | 3669.4 | 8.2 |
| 30°-40° | 5323.1 | 11.9 |
| 40°-50° | 6914.6 | 15.4 |
| 50°-60° | 9368.9 | 20.9 |
| 60°-70° | 10928.7 | 24.4 |
| 70°-80° | 5388.3 | 12.0 |
| 80°-90° | 423.0 | 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° | 44842.6 | 100.0 |
| 0°-180° | 44842.6 | 100.0 |



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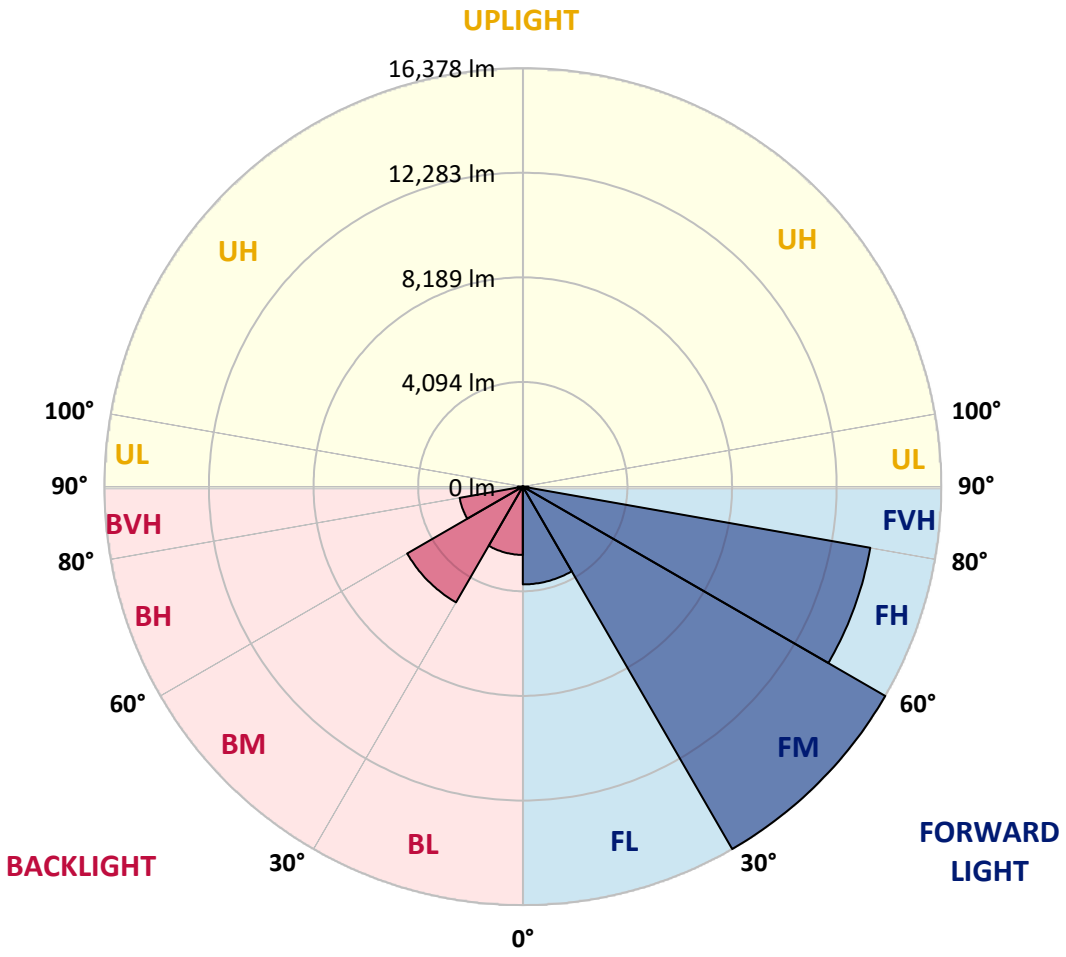
Scaled Data Report

REPORT NUMBER: P1359917
CATALOG NUMBER: GSS-SB6C-740-U-T3

## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 3825.5 | 8.5 | | | |
| FM | (30°-60°) | 16377.9 | 36.5 | | | |
| FH | (60°-80°) | 13808.2 | 30.8 | | | G5 |
| FVH | (80°-90°) | 222.0 | 0.5 | | | G2/225 |
| BL | (0°-30°) | 2670.5 | 6.0 | B4/5000 | | |
| BM | (30°-60°) | 5228.8 | 11.7 | B4/8500 | | |
| BH | (60°-80°) | 2508.8 | 5.6 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 201.0 | 0.4 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B4-U0-G5**
Type III Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 52° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 6939.4 | 6939.4 | 6939.4 | 6939.4 | 6939.4 | 6939.4 | 6939.4 | 6939.4 | 6939.4 | 6939.4 | 6939.4 |
| 2.5° | 7149.1 | 7139.1 | 7129.1 | 7089.2 | 7089.2 | 7099.2 | 7079.2 | 7089.2 | 7079.2 | 7029.3 | 6989.3 |
| 5° | 7548.5 | 7458.6 | 7438.6 | 7418.7 | 7438.6 | 7378.7 | 7328.8 | 7298.9 | 7189.0 | 7159.1 | 7039.2 |
| 7.5° | 7718.2 | 7728.2 | 7718.2 | 7678.3 | 7648.3 | 7648.3 | 7568.4 | 7528.5 | 7458.6 | 7338.8 | 7139.1 |
| 10° | 7957.8 | 7947.9 | 7917.9 | 7937.9 | 7997.8 | 7897.9 | 7838.0 | 7808.1 | 7688.3 | 7518.5 | 7328.8 |
| 12.5° | 8387.2 | 8317.3 | 8297.3 | 8267.4 | 8257.4 | 8197.5 | 8127.6 | 8137.6 | 7997.8 | 7738.2 | 7538.5 |
| 15° | 8756.6 | 8676.7 | 8766.6 | 8706.7 | 8626.8 | 8537.0 | 8467.1 | 8407.2 | 8247.4 | 8007.8 | 7758.2 |
| 17.5° | 9106.1 | 9066.2 | 9106.1 | 9106.1 | 9096.1 | 8946.3 | 8806.5 | 8756.6 | 8566.9 | 8297.3 | 7967.8 |
| 20° | 9375.7 | 9375.7 | 9445.6 | 9445.6 | 9415.6 | 9325.8 | 9235.9 | 9176.0 | 8906.4 | 8556.9 | 8177.5 |
| 22.5° | 9725.1 | 9565.4 | 9715.2 | 9725.1 | 9735.1 | 9665.2 | 9605.3 | 9525.5 | 9245.9 | 8826.5 | 8347.3 |
| 25° | 10054.6 | 9924.8 | 10014.7 | 9954.8 | 9994.7 | 10024.7 | 9994.7 | 9964.8 | 9655.3 | 9176.0 | 8596.9 |
| 27.5° | 10573.9 | 10444.0 | 10504.0 | 10364.2 | 10364.2 | 10334.2 | 10384.1 | 10424.1 | 10084.6 | 9515.5 | 8816.5 |
| 30° | 11352.7 | 11202.9 | 11153.0 | 10983.2 | 10813.5 | 10743.6 | 10763.6 | 10833.5 | 10603.8 | 9845.0 | 9036.2 |
| 32.5° | 12021.6 | 11941.8 | 11901.8 | 11762.0 | 11552.4 | 11232.8 | 11282.8 | 11282.8 | 11043.1 | 10084.6 | 9146.0 |
| 35° | 12570.8 | 12550.8 | 12560.8 | 12371.1 | 12331.2 | 11812.0 | 11812.0 | 11792.0 | 11352.7 | 10404.1 | 9435.6 |
| 37.5° | 12930.3 | 12820.4 | 12870.3 | 12940.2 | 12810.4 | 12461.0 | 12371.1 | 12321.2 | 11782.0 | 10743.6 | 9815.0 |
| 40° | 12850.4 | 12770.5 | 12960.2 | 13090.0 | 12990.2 | 12920.3 | 12910.3 | 12810.4 | 12211.3 | 11172.9 | 10374.2 |
| 42.5° | 12840.4 | 12770.5 | 13000.1 | 13139.9 | 13090.0 | 13199.8 | 13229.8 | 13299.7 | 12760.5 | 11851.9 | 11172.9 |
| 45° | 12880.3 | 12850.4 | 13229.8 | 13409.5 | 13289.7 | 13439.5 | 13609.2 | 13669.1 | 13459.4 | 12680.6 | 12171.4 |
| 47.5° | 13209.8 | 13169.9 | 13609.2 | 13818.9 | 13918.7 | 14178.3 | 14068.5 | 14168.4 | 14288.2 | 13858.8 | 13319.7 |
| 50° | 13529.3 | 13569.3 | 14158.4 | 14358.1 | 14847.3 | 15206.8 | 14827.4 | 14987.1 | 15386.5 | 15226.7 | 14857.3 |
| 52.5° | 14038.6 | 14048.5 | 14627.7 | 15126.9 | 16065.5 | 16404.9 | 16035.5 | 16055.5 | 16594.7 | 16894.2 | 16404.9 |
| 55° | 14168.4 | 14278.2 | 15057.0 | 16095.4 | 17443.4 | 17683.0 | 17513.3 | 17443.4 | 18082.4 | 18491.8 | 17962.6 |
| 57.5° | 14158.4 | 14098.5 | 15067.0 | 16504.8 | 18491.8 | 19340.5 | 19440.3 | 19250.6 | 19789.8 | 19959.5 | 19670.0 |
| 60° | 13788.9 | 13908.8 | 14967.1 | 16794.3 | 19470.3 | 21357.4 | 21597.0 | 21347.4 | 21607.0 | 21656.9 | 20848.2 |
| 62.5° | 12660.7 | 12700.6 | 14148.4 | 16804.3 | 20239.1 | 23034.8 | 23743.7 | 23464.2 | 23224.5 | 22605.5 | 21107.8 |
| 65° | 10823.5 | 10753.6 | 12141.5 | 15416.5 | 20378.9 | 24652.3 | 25670.8 | 25670.8 | 24113.2 | 22925.0 | 20558.6 |
| 67.5° | 9026.2 | 8916.4 | 9954.8 | 12570.8 | 18142.3 | 25361.3 | 26988.8 | 26459.6 | 24302.9 | 23144.7 | 19250.6 |
| 70° | 4353.4 | 4662.9 | 6250.5 | 8896.4 | 13868.8 | 21417.3 | 26010.3 | 26210.0 | 24153.1 | 22455.7 | 16714.5 |
| 72.5° | 1557.6 | 1487.7 | 2246.6 | 3814.2 | 7678.3 | 13978.6 | 21776.7 | 23534.1 | 23104.7 | 20478.7 | 13689.1 |
| 75° | 718.9 | 728.9 | 938.6 | 1328.0 | 2486.2 | 6819.6 | 13848.8 | 16205.2 | 19789.8 | 17024.0 | 10244.4 |
| 77.5° | 559.1 | 559.1 | 639.0 | 758.8 | 1028.4 | 2206.6 | 7079.2 | 9096.1 | 12790.5 | 10543.9 | 4882.5 |
| 80° | 409.4 | 419.4 | 429.3 | 499.2 | 629.0 | 828.7 | 2106.8 | 3155.2 | 4662.9 | 3384.8 | 1587.6 |
| 82.5° | 289.6 | 289.6 | 279.6 | 279.6 | 339.5 | 369.4 | 569.1 | 798.8 | 1367.9 | 928.6 | 419.4 |
| 85° | 119.8 | 139.8 | 119.8 | 119.8 | 119.8 | 149.8 | 179.7 | 209.7 | 299.5 | 259.6 | 179.7 |
| 87.5° | 20.0 | 20.0 | 20.0 | 30.0 | 39.9 | 49.9 | 59.9 | 69.9 | 79.9 | 79.9 | 79.9 |
| 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: P1359917
CATALOG NUMBER: GSS-SB6C-740-U-T3

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 6939.4 | 6939.4 | 6939.4 | 6939.4 | 6939.4 | 6939.4 | 6939.4 | 6939.4 | 6939.4 | 6939.4 | 6939.4 |
| 2.5° | 6969.4 | 6969.4 | 6939.4 | 6889.5 | 6869.5 | 6839.6 | 6829.6 | 6819.6 | 6799.6 | 6839.6 | 6819.6 |
| 5° | 7009.3 | 6969.4 | 6929.4 | 6849.5 | 6839.6 | 6789.6 | 6739.7 | 6729.7 | 6699.8 | 6729.7 | 6729.7 |
| 7.5° | 7099.2 | 7039.2 | 6949.4 | 6869.5 | 6799.6 | 6789.6 | 6699.8 | 6619.9 | 6619.9 | 6629.9 | 6619.9 |
| 10° | 7258.9 | 7189.0 | 7099.2 | 6949.4 | 6819.6 | 6699.8 | 6550.0 | 6450.1 | 6460.1 | 6460.1 | 6440.2 |
| 12.5° | 7468.6 | 7368.7 | 7209.0 | 6989.3 | 6789.6 | 6599.9 | 6420.2 | 6390.2 | 6380.3 | 6400.2 | 6340.3 |
| 15° | 7628.3 | 7538.5 | 7278.9 | 7029.3 | 6719.7 | 6530.0 | 6340.3 | 6270.4 | 6280.4 | 6260.4 | 6210.5 |
| 17.5° | 7828.0 | 7688.3 | 7368.7 | 6999.3 | 6639.9 | 6460.1 | 6240.5 | 6090.7 | 6010.8 | 6020.8 | 6010.8 |
| 20° | 8017.8 | 7818.1 | 7438.6 | 6999.3 | 6619.9 | 6300.4 | 6020.8 | 5821.1 | 5651.4 | 5621.4 | 5611.4 |
| 22.5° | 8157.5 | 7957.8 | 7518.5 | 7009.3 | 6500.1 | 6120.7 | 5711.3 | 5451.7 | 5202.1 | 5162.1 | 5152.1 |
| 25° | 8357.2 | 8097.6 | 7608.4 | 6939.4 | 6340.3 | 5821.1 | 5311.9 | 5022.3 | 4802.7 | 4762.7 | 4762.7 |
| 27.5° | 8527.0 | 8247.4 | 7728.2 | 6869.5 | 6080.7 | 5411.7 | 4932.5 | 4642.9 | 4503.1 | 4433.2 | 4433.2 |
| 30° | 8706.7 | 8397.2 | 7828.0 | 6659.8 | 5731.2 | 5002.4 | 4632.9 | 4443.2 | 4283.5 | 4213.6 | 4183.6 |
| 32.5° | 8906.4 | 8646.8 | 7848.0 | 6450.1 | 5381.8 | 4732.8 | 4423.2 | 4263.5 | 4093.7 | 3993.9 | 3983.9 |
| 35° | 9156.0 | 8966.3 | 7778.1 | 6140.6 | 5032.3 | 4523.1 | 4223.5 | 4043.8 | 3874.1 | 3774.2 | 3794.2 |
| 37.5° | 9555.4 | 9335.7 | 7568.4 | 5701.3 | 4742.8 | 4393.3 | 4063.8 | 3804.2 | 3604.5 | 3444.7 | 3454.7 |
| 40° | 10144.5 | 9785.1 | 7258.9 | 5172.1 | 4533.1 | 4243.5 | 3874.1 | 3574.5 | 3285.0 | 3045.3 | 3045.3 |
| 42.5° | 10813.5 | 10184.4 | 6879.5 | 4682.8 | 4373.3 | 4053.8 | 3674.4 | 3295.0 | 2885.6 | 2636.0 | 2626.0 |
| 45° | 11562.3 | 10533.9 | 6440.2 | 4283.5 | 4113.7 | 3824.2 | 3414.8 | 2875.6 | 2606.0 | 2476.2 | 2466.2 |
| 47.5° | 12560.8 | 10913.3 | 5921.0 | 3934.0 | 3814.2 | 3594.5 | 3025.4 | 2636.0 | 2476.2 | 2376.4 | 2366.4 |
| 50° | 13499.4 | 11322.7 | 5491.6 | 3594.5 | 3494.7 | 3324.9 | 2755.8 | 2536.1 | 2406.3 | 2326.4 | 2306.5 |
| 52.5° | 14587.7 | 11742.1 | 5012.3 | 3265.0 | 3135.2 | 2905.6 | 2695.9 | 2486.2 | 2366.4 | 2306.5 | 2286.5 |
| 55° | 15666.1 | 12331.2 | 4483.2 | 2965.5 | 2815.7 | 2715.9 | 2636.0 | 2456.2 | 2336.4 | 2296.5 | 2266.5 |
| 57.5° | 16894.2 | 12900.3 | 3834.1 | 2646.0 | 2586.1 | 2576.1 | 2626.0 | 2446.3 | 2346.4 | 2276.5 | 2236.6 |
| 60° | 17533.2 | 13149.9 | 3155.2 | 2356.4 | 2366.4 | 2426.3 | 2586.1 | 2446.3 | 2286.5 | 2166.7 | 2116.8 |
| 62.5° | 17313.6 | 12640.7 | 2496.2 | 2066.8 | 2156.7 | 2266.5 | 2516.2 | 2356.4 | 2156.7 | 2066.8 | 2006.9 |
| 65° | 16434.9 | 11772.0 | 1947.0 | 1817.2 | 1967.0 | 2066.8 | 2346.4 | 2226.6 | 2026.9 | 1937.0 | 1927.1 |
| 67.5° | *15166.8* | *10264.3* | *1577.6* | *1597.6* | *1747.3* | *1877.1* | *2196.6* | *2146.7* | *1917.1* | *1857.2* | *1857.2* |
| 70° | 12750.5 | 8247.4 | 1298.0 | 1397.9 | 1527.7 | 1667.5 | 2086.8 | 2016.9 | 1777.3 | 1747.3 | 1747.3 |
| 72.5° | 9964.8 | 5821.1 | 1108.3 | 1228.1 | 1268.1 | 1467.8 | 1937.0 | 1867.1 | 1727.4 | 1797.3 | 1807.2 |
| 75° | 7029.3 | 3544.6 | 948.6 | 1038.4 | 1078.4 | 1208.2 | 1797.3 | 1827.2 | 1697.4 | 1927.1 | 1967.0 |
| 77.5° | 3195.1 | 1557.6 | 738.9 | 818.7 | 868.7 | 1028.4 | 1547.6 | 1697.4 | 1467.8 | 1467.8 | 1387.9 |
| 80° | 1118.3 | 659.0 | 589.1 | 589.1 | 629.0 | 798.8 | 1288.0 | 1397.9 | 1178.2 | 1038.4 | 998.5 |
| 82.5° | 409.4 | 359.5 | 439.3 | 439.3 | 399.4 | 489.3 | 858.7 | 928.6 | 848.7 | 738.9 | 728.9 |
| 85° | 159.8 | 169.7 | 269.6 | 269.6 | 199.7 | 239.6 | 479.3 | 499.2 | 479.3 | 419.4 | 419.4 |
| 87.5° | 69.9 | 69.9 | 79.9 | 79.9 | 69.9 | 59.9 | 89.9 | 89.9 | 59.9 | 39.9 | 20.0 |
| 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-79-2019: 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

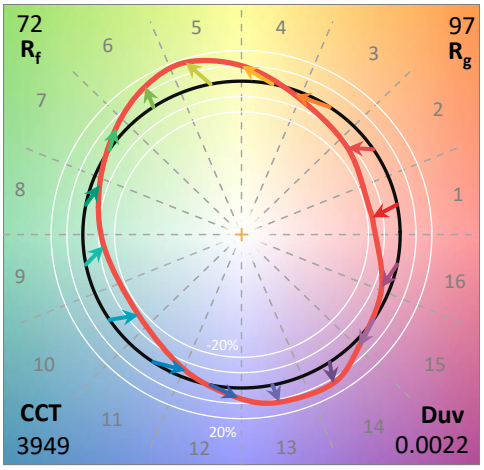
## Test Information

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

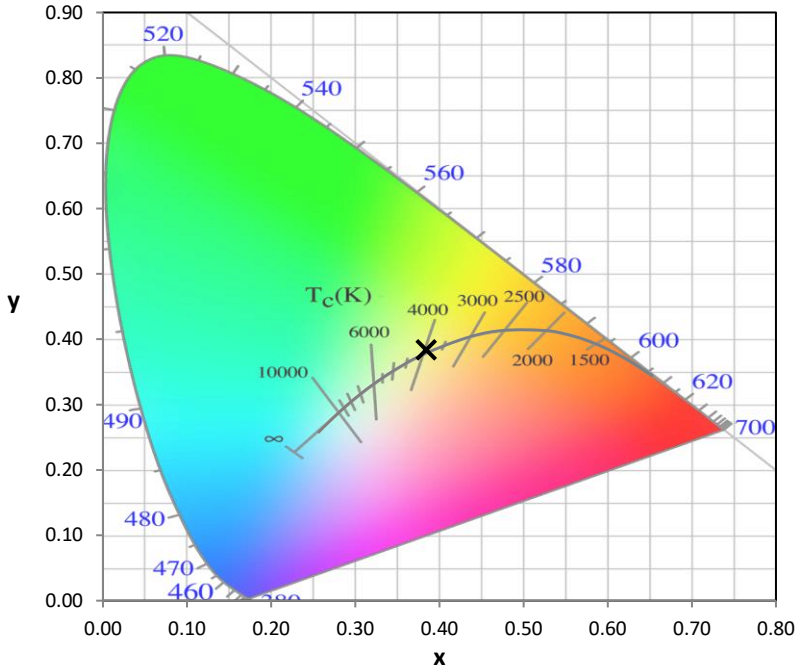
| | |
|---|---|
| Stabilization Time: | 34M |
| Operation Time: | 1H 34M |
| Sphere Temperature (°C): | 25.2 |

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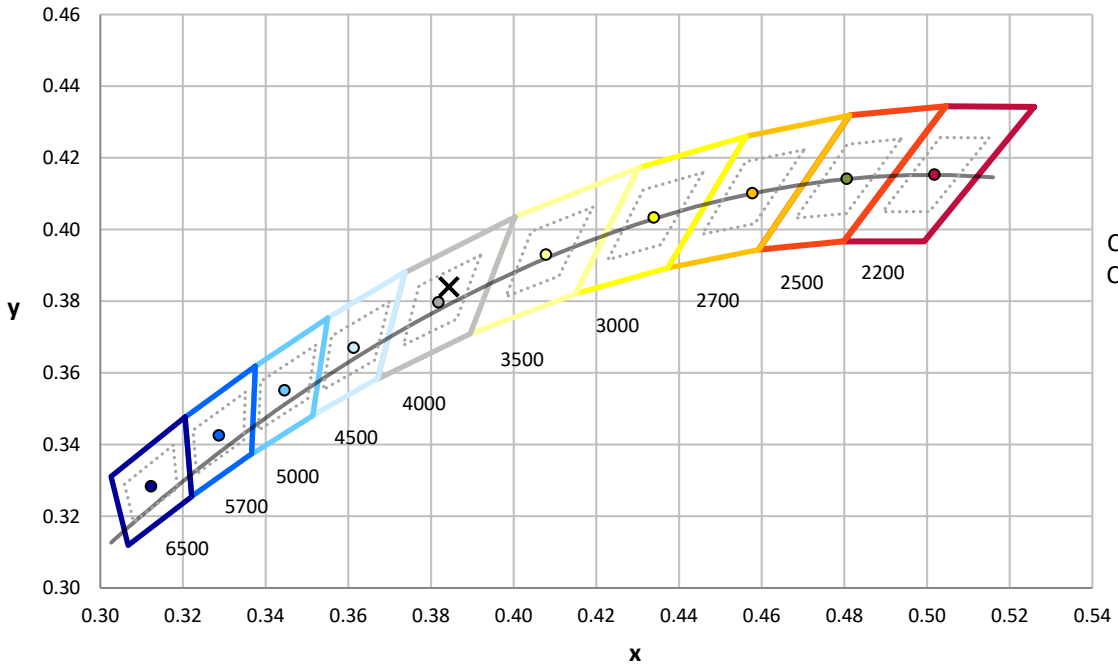
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC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

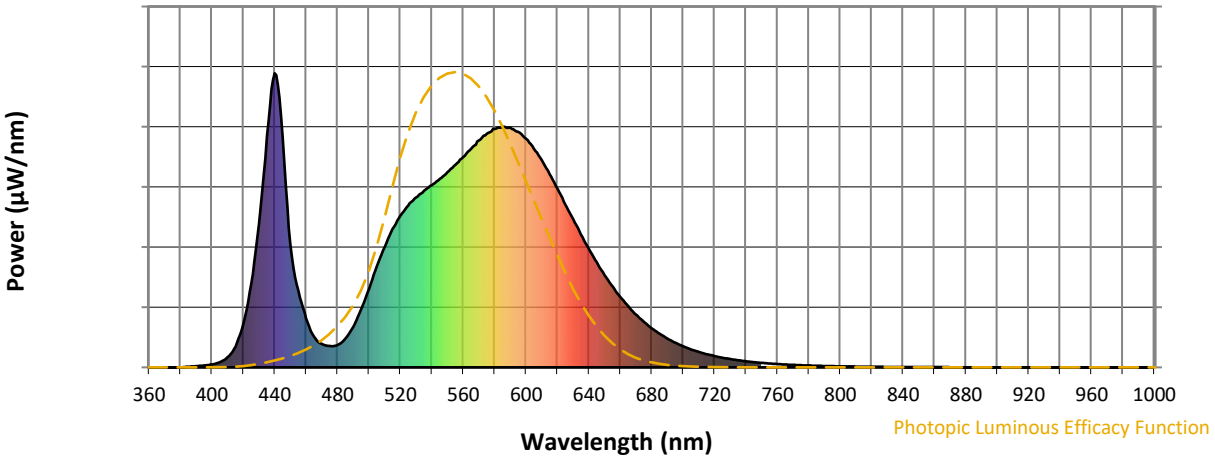



CCT = 3949K
CIE x = 0.3844
CIE y = 0.3840
Duv = 0.0022

Point lies inside the ANSI 4000K 4-step quadrangle

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## Photopic Flux vs. Wavelength

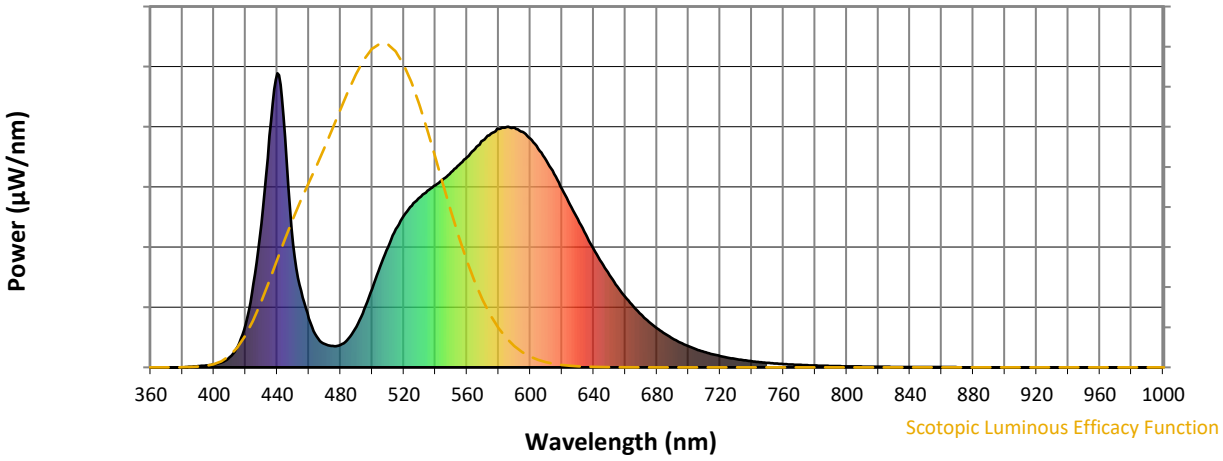



## Photopic Lumens: NR

| 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

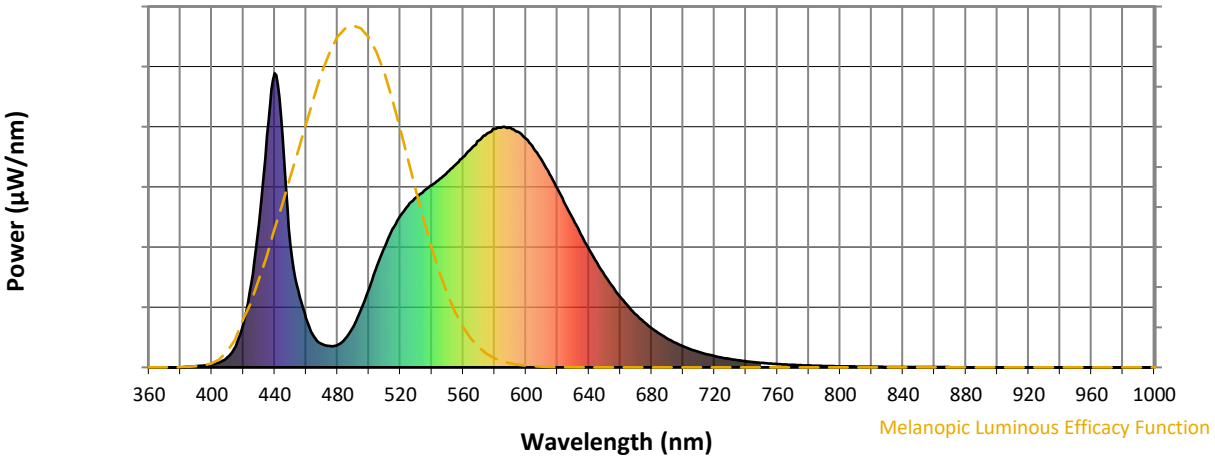



**Scotopic Lumens: NR** **S/P: 1.47**

| 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 | | | |

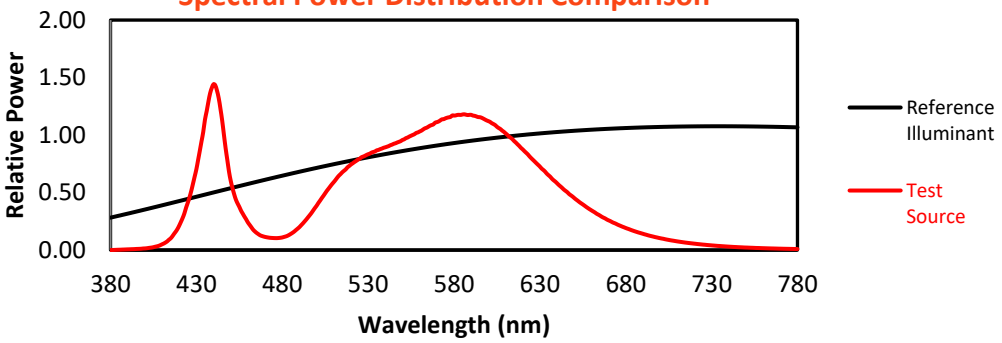
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# TM-30-18

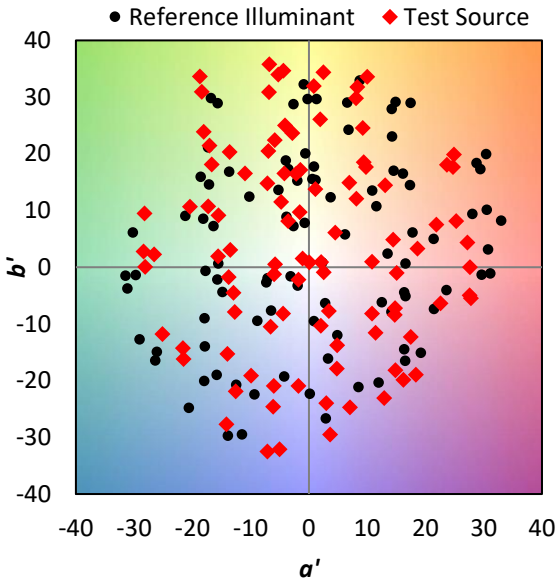
## Summary

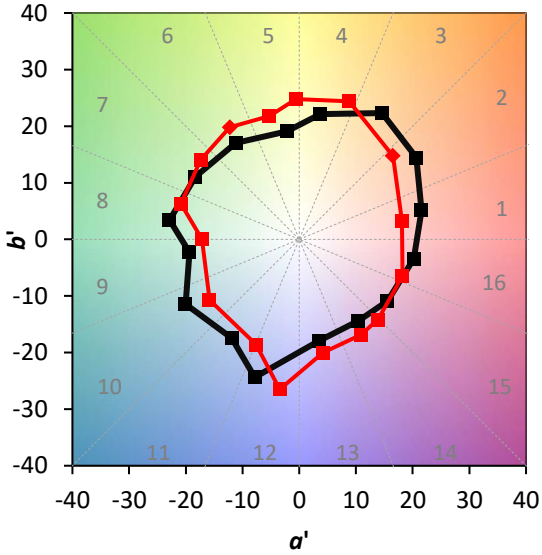
$R_f$ = 71.8
$R_g$ = 96.5
CIE $R_a$ = 70.7
$R_9$ = -36.7

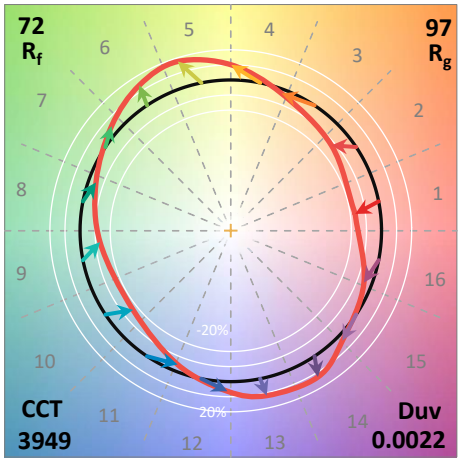
## Spectral Power Distribution Comparison

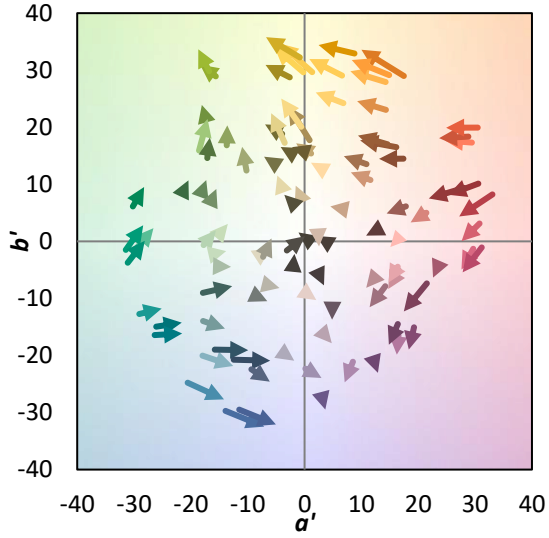



## Color Vector Graphics



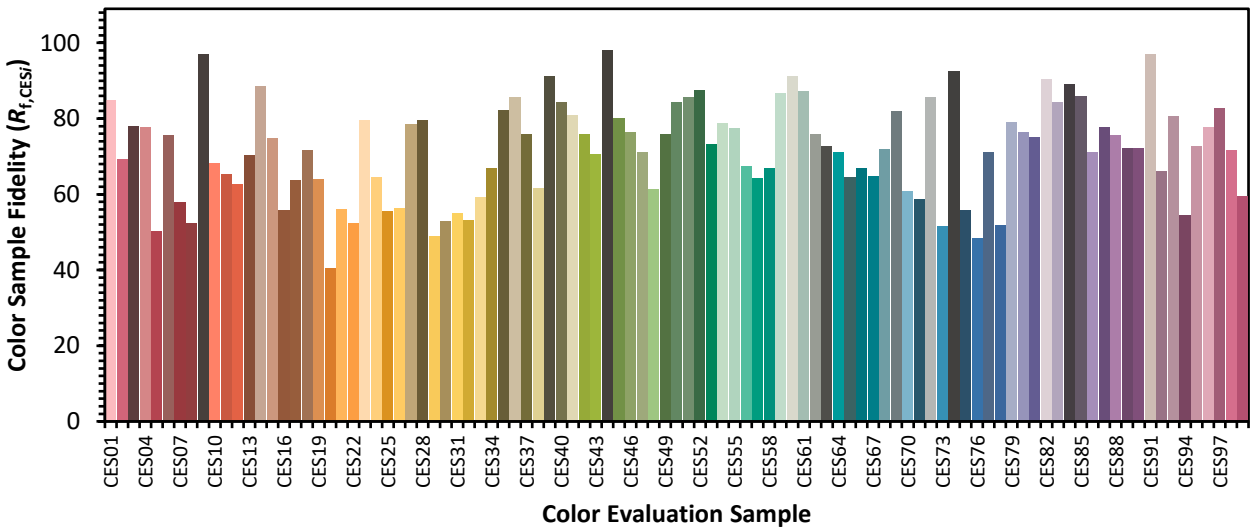



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**Individual Sample Fidelity Index ($R_{f,i}$)**

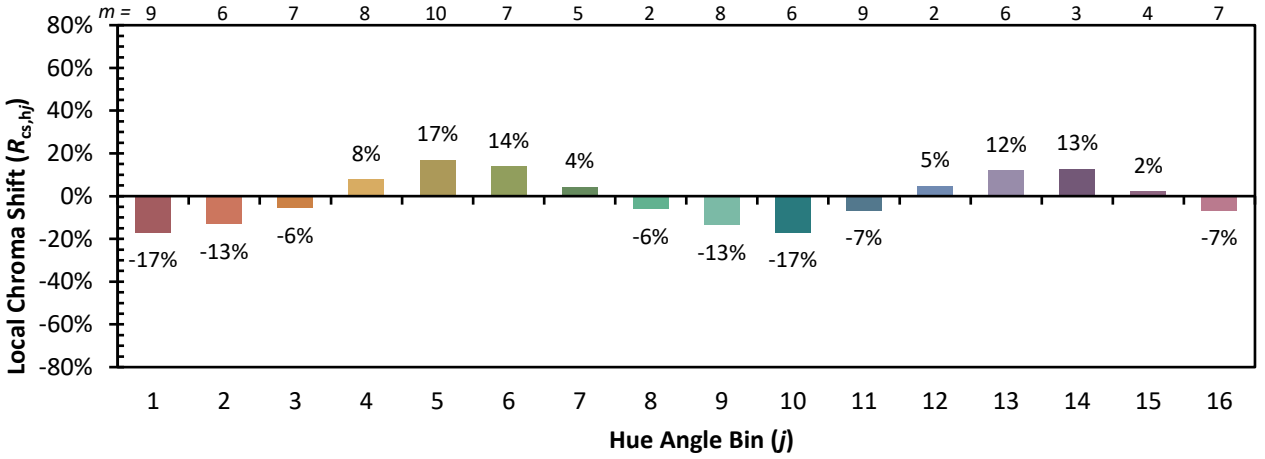
| | | | |
|---|---|---|---|
| CES01 = 85 | CES26 = 56 | CES51 = 86 | CES76 = 48 |
| CES02 = 61 | CES27 = 79 | CES52 = 88 | CES77 = 71 |
| CES03 = 30 | CES28 = 80 | CES53 = 73 | CES78 = 52 |
| CES04 = 70 | CES29 = 49 | CES54 = 79 | CES79 = 79 |
| CES05 = 47 | CES30 = 53 | CES55 = 77 | CES80 = 77 |
| CES06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

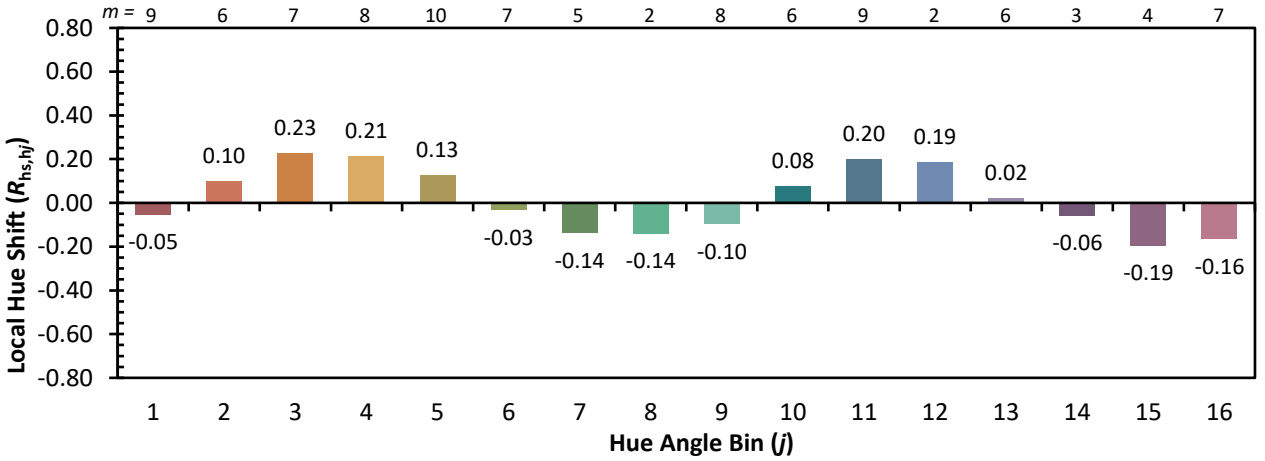


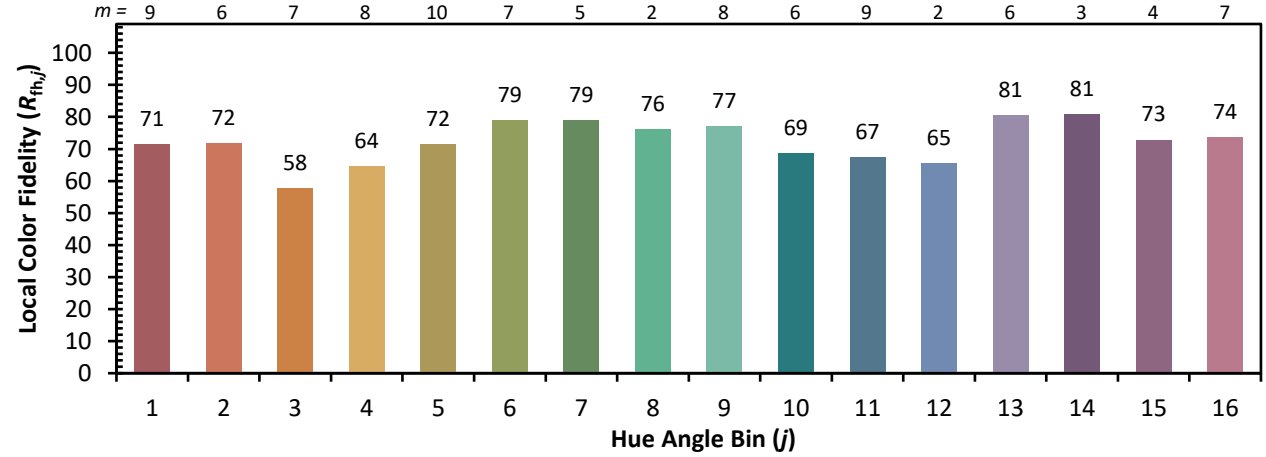
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## Color Rendition by Hue-Angle Bin



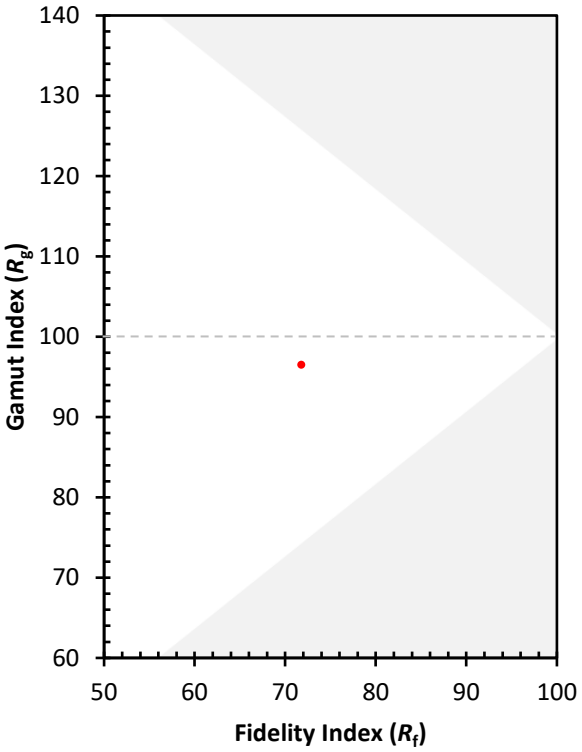



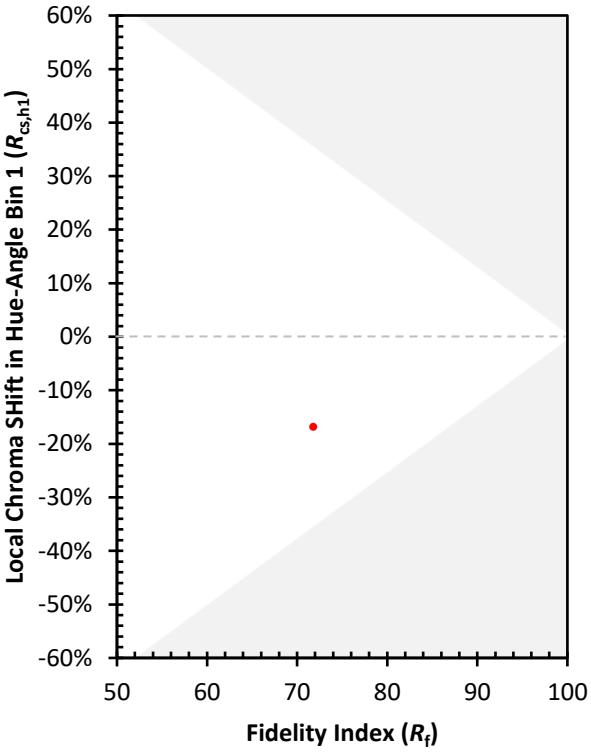



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## Measure Comparisons




(END OF REPORT)