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: P1366157

Luminaire Tested: **GSS-SB6C-735-U-T2R-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: | P1366157 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 02/18/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB6C-735-U-T2R-HSS |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 6SQUARE 300W 70CRI 3500K FIXTURE w/ TYPE II ROADWAY DISTRIBUTION OPTIC AND HOUSE SIDE SHIELD |
| Light Source: | (156) 3500K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 36568.3 lumens |
| Efficiency: | N/A |
| Efficacy: | 121.9 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1' x H: 0') |
| IES Classification: | Type II - Short |
| BUG Rating: | B2 - U0 - G4 |

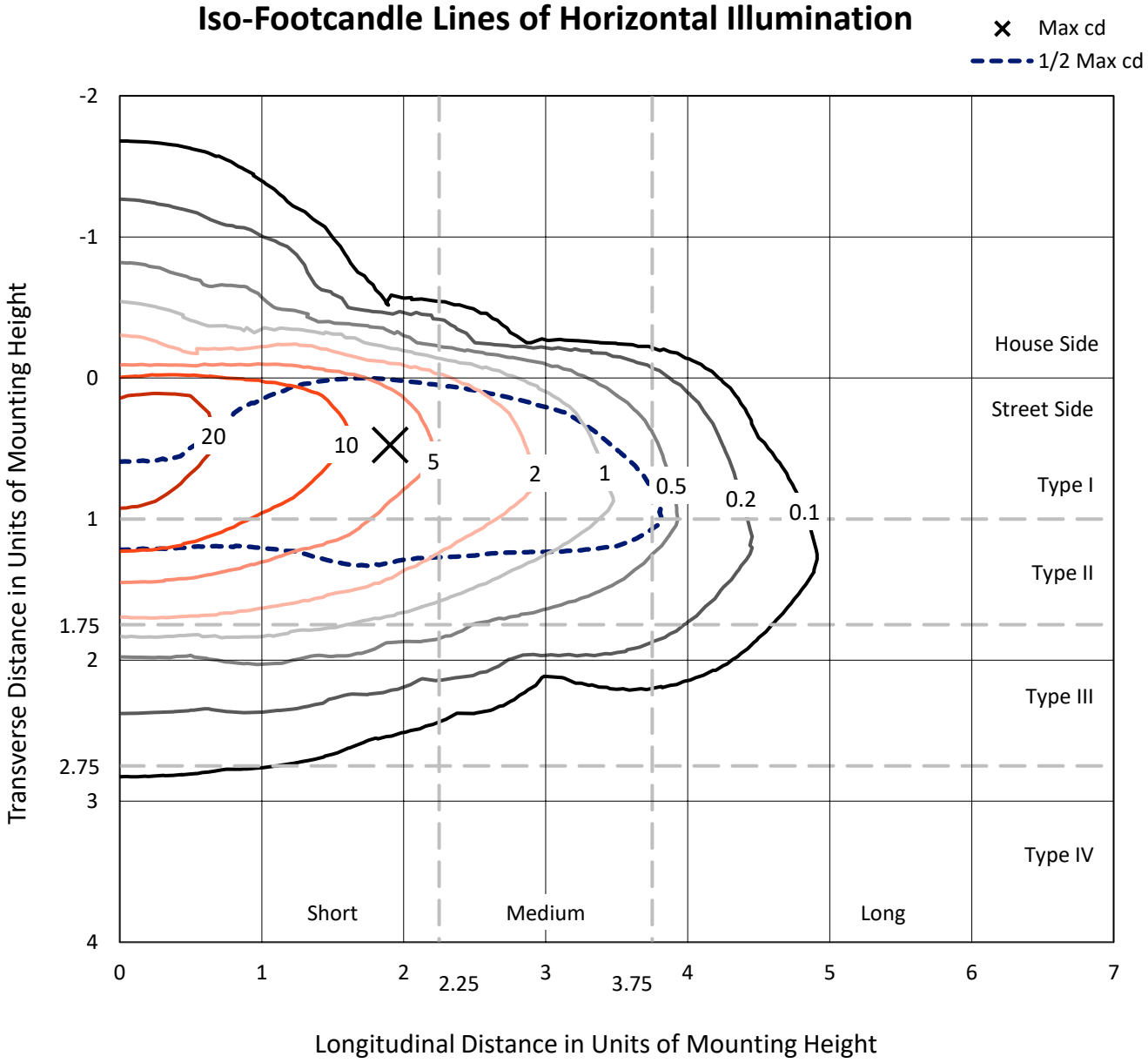
| | |
|---|---|
| Input Watts (W): | 300 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 6.3% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature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

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Scaled Data Report

REPORT NUMBER: P1366157
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## Iso-Footcandle Lines of Horizontal Illumination



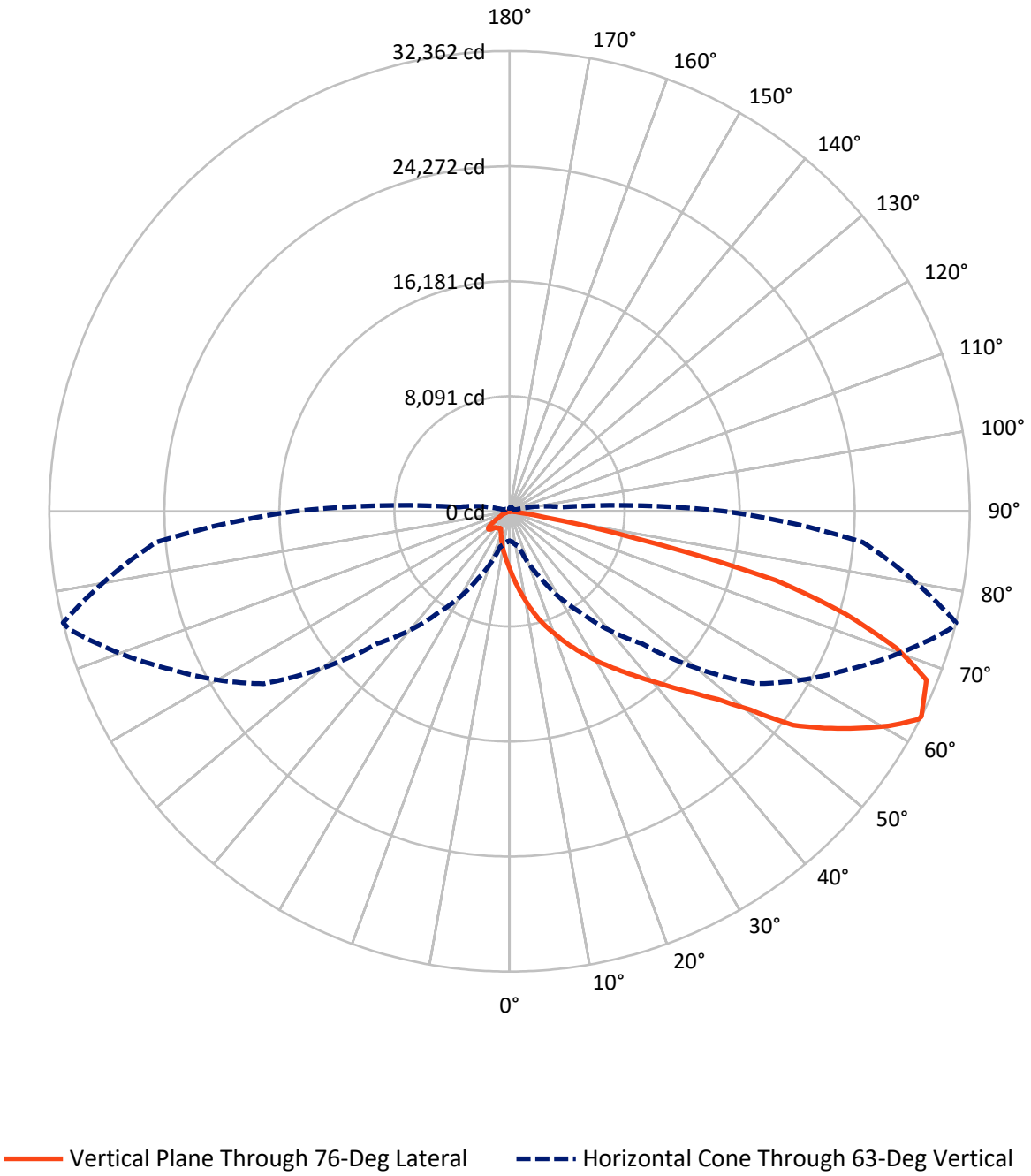

Based on 20 foot mounting height. Maximum calculated value = 25.8 fc
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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Scaled Data Report

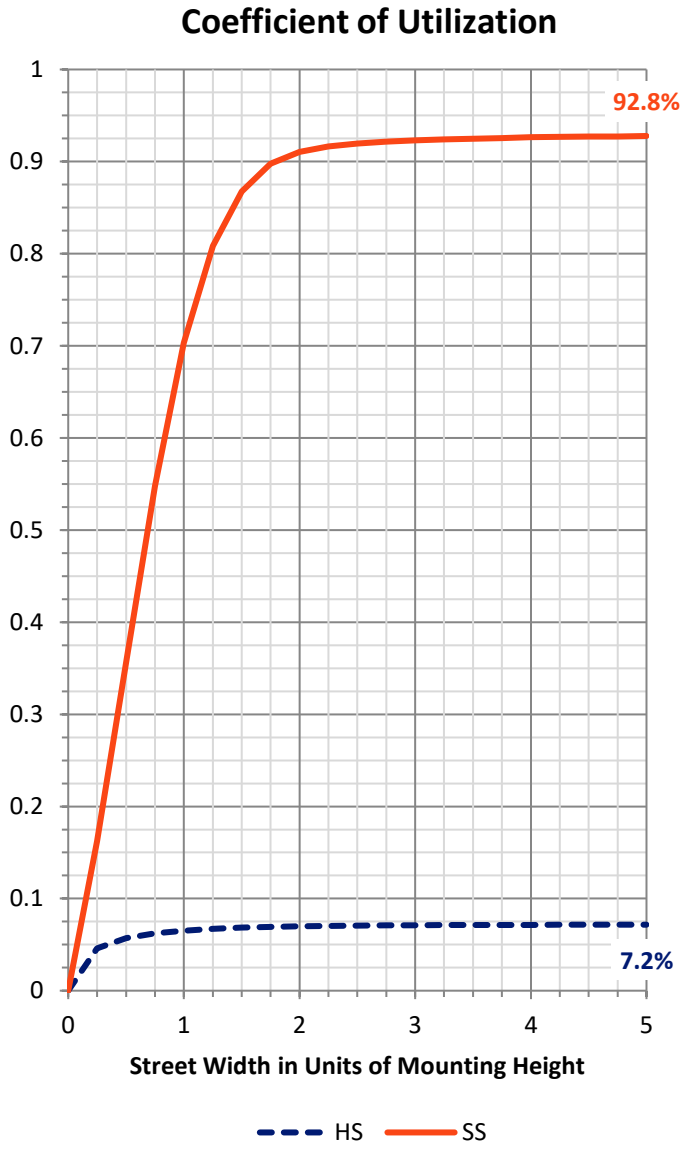
REPORT NUMBER: P1366157
CATALOG NUMBER: GSS-SB6C-735-U-T2R-HSS

**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 2635.1 | 0.0 | 2635.1 |
| | % Fixture | 7.2 | 0.0 | 7.2 |
| **Street Side** | Lumens | 33933.2 | 0.0 | 33933.2 |
| | % Fixture | 92.8 | 0.0 | 92.8 |
| **Total** | Lumens | 36568.3 | 0.0 | 36568.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 426.6 | 1.2 |
| 10°-20° | 1526.0 | 4.2 |
| 20°-30° | 2975.2 | 8.1 |
| 30°-40° | 5225.7 | 14.3 |
| 40°-50° | 7645.8 | 20.9 |
| 50°-60° | 8872.1 | 24.3 |
| 60°-70° | 6992.4 | 19.1 |
| 70°-80° | 2779.2 | 7.6 |
| 80°-90° | 125.4 | 0.3 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 36568.3 | 100.0 |
| 0°-180° | 36568.3 | 100.0 |



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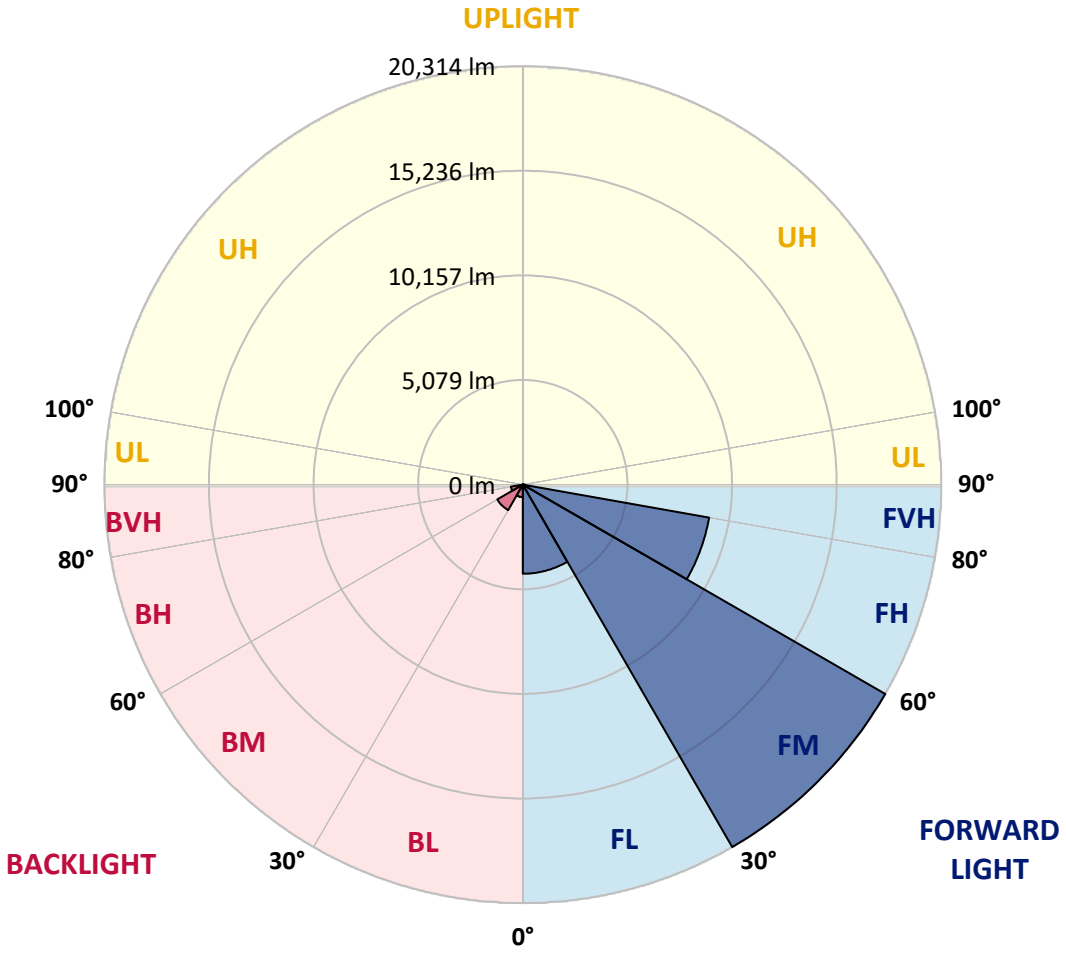
Scaled Data Report

REPORT NUMBER: P1366157
CATALOG NUMBER: GSS-SB6C-735-U-T2R-HSS

## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 4324.3 | 11.8 | | | |
| FM | (30°-60°) | 20314.2 | 55.6 | | | |
| FH | (60°-80°) | 9185.1 | 25.1 | | | G4/12000 |
| FVH | (80°-90°) | 109.6 | 0.3 | | | G2/225 |
| BL | (0°-30°) | 603.5 | 1.7 | B2/1000 | | |
| BM | (30°-60°) | 1429.5 | 3.9 | B2/2500 | | |
| BH | (60°-80°) | 586.4 | 1.6 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 15.8 | 0.0 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B2-U0-G4**
Type II Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 4088.1 | 4088.1 | 4088.1 | 4088.1 | 4088.1 | 4088.1 | 4088.1 | 4088.1 | 4088.1 | *4088.1* | 4088.1 |
| 2.5° | 5860.2 | 5830.0 | 5830.0 | 5719.3 | 5558.2 | 5387.0 | 5145.3 | 4873.5 | 4601.6 | *4591.5* | 4289.5 |
| 5° | 7269.9 | 7229.7 | 7179.3 | 7048.4 | 6837.0 | 6555.0 | 6232.8 | 5759.6 | 5195.7 | *5175.5* | 4581.5 |
| 7.5° | 8186.2 | 8196.3 | 8125.8 | 8065.4 | 7924.4 | 7622.3 | 7209.5 | 6625.5 | 5890.5 | *5799.8* | 4964.1 |
| 10° | 9011.9 | 8961.5 | 8951.5 | 8941.4 | 8840.7 | 8548.7 | 8156.0 | 7471.3 | 6575.2 | *6484.5* | 5387.0 |
| 12.5° | 9525.4 | 9505.3 | 9575.8 | 9636.2 | 9616.0 | 9495.2 | 9042.1 | 8357.4 | 7300.1 | *7189.4* | 5809.9 |
| 15° | 9686.5 | 9706.7 | 9877.8 | 10069.2 | 10230.3 | 10270.5 | 9887.9 | 9183.1 | 7984.8 | *7914.4* | 6293.2 |
| 17.5° | 9565.7 | 9595.9 | 9837.6 | 10179.9 | 10572.6 | 10874.7 | 10703.5 | 9958.4 | 8719.9 | *8589.0* | 6726.2 |
| 20° | 9616.0 | 9646.3 | 9867.8 | 10190.0 | 10703.5 | 11217.0 | 11368.1 | 10784.1 | 9374.4 | *9233.4* | 7229.7 |
| 22.5° | 10461.9 | 10502.1 | 10552.5 | 10552.5 | 10904.9 | 11458.7 | 11801.0 | 11559.4 | 10119.5 | *9978.5* | 7783.5 |
| 25° | 12314.6 | 12284.4 | 12012.5 | 11569.5 | 11579.5 | 11821.2 | 12193.7 | 12203.8 | 10874.7 | *10703.5* | 8286.9 |
| 27.5° | 14157.2 | 14237.8 | 13885.4 | 13230.9 | 12717.3 | 12485.8 | 12646.9 | 12777.8 | 11599.7 | *11428.5* | 8850.8 |
| 30° | 15858.9 | 15808.6 | 15436.0 | 14761.4 | 14117.0 | 13583.3 | 13240.9 | 13311.4 | 12375.0 | *12244.1* | 9414.7 |
| 32.5° | 17198.1 | 17218.3 | 16795.3 | 16050.2 | 15345.4 | 14882.2 | 14177.4 | 13885.4 | 13130.2 | *13029.5* | 10018.8 |
| 35° | 18325.9 | 18265.4 | 17751.9 | 17026.9 | 16372.4 | 16070.4 | 15325.3 | 14509.7 | 13996.1 | *13865.2* | 10653.2 |
| 37.5° | 19403.3 | 19363.0 | 18728.6 | 17762.0 | 17167.9 | 17026.9 | 16604.0 | 15335.3 | 14892.3 | *14791.6* | 11458.7 |
| 40° | 20128.2 | 20088.0 | 19544.2 | 18597.7 | 17882.8 | 17762.0 | 17741.9 | 16362.4 | 15858.9 | *15788.4* | 12284.4 |
| 42.5° | 20299.4 | 20249.1 | 19866.4 | 19161.6 | 18527.2 | 18396.3 | 18829.3 | 17480.1 | 17067.2 | *16946.4* | 13251.0 |
| 45° | 19957.1 | 20007.4 | 19745.6 | 19322.7 | 19020.6 | 18869.6 | 19725.5 | 18698.4 | 18305.7 | *18235.2* | 14288.1 |
| 47.5° | 18970.3 | 18990.4 | 18970.3 | 19101.2 | 19161.6 | 19433.5 | 20551.1 | 20017.5 | 19745.6 | *19755.7* | 15617.3 |
| 50° | 17178.0 | 17147.8 | 17459.9 | 18184.9 | 18899.8 | 19836.2 | 21618.5 | 21739.3 | 22001.1 | *21940.7* | 17600.9 |
| 52.5° | 13673.9 | 13724.3 | 15073.5 | 16402.7 | 18144.6 | 19796.0 | 22424.0 | 23894.1 | 24961.4 | *24961.4* | 19745.6 |
| 55° | 11025.7 | 11066.0 | 11952.1 | 14197.5 | 16614.1 | 19363.0 | 22867.0 | 25001.7 | 26914.9 | *26904.8* | 21276.1 |
| 57.5° | 9011.9 | 9082.4 | 9787.2 | 11559.4 | 14328.4 | 18114.4 | 23048.3 | 25867.7 | 28596.4 | *28777.6* | 22846.9 |
| 60° | 5044.6 | 5437.3 | 6837.0 | 9162.9 | 11801.0 | 16171.1 | 22766.4 | 26602.7 | 30429.0 | *30640.4* | 24447.9 |
| 62.5° | 2285.7 | 2336.0 | 2970.4 | 5658.9 | 9193.1 | 13694.1 | 21457.4 | 26421.5 | 32080.3 | *32241.4* | 24971.5 |
| 63° | *2074.2* | *2154.8* | *2577.7* | *5175.5* | *8669.5* | *13140.2* | *21125.1* | *26290.6* | *32050.1* | *32362.3* | *24931.2* |
| 65° | 1631.2 | 1681.5 | 1792.3 | 3343.0 | 5809.9 | 10784.1 | 18889.7 | 24135.8 | 31627.2 | *31999.8* | 24045.1 |
| 67.5° | 1339.2 | 1339.2 | 1429.8 | 2084.3 | 3212.1 | 7421.0 | 14006.2 | 21074.7 | 31184.2 | *31617.1* | 22917.4 |
| 70° | 1137.8 | 1137.8 | 1198.2 | 1470.1 | 1913.1 | 3584.6 | 10079.2 | 18033.9 | 28546.1 | *28898.5* | 19947.0 |
| 72.5° | 825.7 | 865.9 | 956.6 | 1147.9 | 1319.1 | 2023.9 | 5175.5 | 13845.1 | 24427.8 | *24739.9* | 16734.9 |
| 75° | 674.6 | 694.8 | 775.3 | 876.0 | 906.2 | 1218.4 | 1822.5 | 10310.8 | 19222.0 | *19342.8* | 11609.7 |
| 77.5° | 352.4 | 382.6 | 634.4 | 714.9 | 694.8 | 745.1 | 886.1 | 5618.6 | 9344.2 | *8709.8* | 3765.9 |
| 80° | 151.0 | 151.0 | 453.1 | 463.2 | 493.4 | 352.4 | 422.9 | 1288.9 | 2678.4 | *2497.2* | 765.3 |
| 82.5° | 40.3 | 50.3 | 362.5 | 322.2 | 332.3 | 161.1 | 181.2 | 412.8 | 684.7 | *644.4* | 221.5 |
| 85° | 20.1 | 30.2 | 90.6 | 80.6 | 100.7 | 60.4 | 80.6 | 161.1 | 120.8 | *120.8* | 90.6 |
| 87.5° | 0.0 | 0.0 | 10.1 | 10.1 | 10.1 | 20.1 | 30.2 | 50.3 | 60.4 | *60.4* | 60.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | *0.0* | 0.0 |

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

REPORT NUMBER: P1366157
CATALOG NUMBER: GSS-SB6C-735-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 4088.1 | 4088.1 | 4088.1 | 4088.1 | 4088.1 | 4088.1 | 4088.1 | 4088.1 | 4088.1 | 4088.1 | 4088.1 |
| 2.5° | 4128.4 | 3957.2 | 3645.0 | 3363.1 | 3081.2 | 2819.4 | 2607.9 | 2507.2 | 2366.3 | 2386.4 | 2366.3 |
| 5° | 4239.1 | 3896.8 | 3242.3 | 2658.3 | 2225.3 | 1882.9 | 1661.4 | 1540.6 | 1439.9 | 1419.8 | 1439.9 |
| 7.5° | 4410.3 | 3876.6 | 2899.9 | 2124.6 | 1631.2 | 1409.7 | 1319.1 | 1278.8 | 1248.6 | 1238.5 | 1248.6 |
| 10° | 4631.8 | 3886.7 | 2587.8 | 1721.8 | 1379.5 | 1278.8 | 1218.4 | 1178.1 | 1147.9 | 1147.9 | 1137.8 |
| 12.5° | 4873.5 | 3896.8 | 2275.6 | 1460.0 | 1258.6 | 1188.2 | 1127.7 | 1087.5 | 1057.3 | 1047.2 | 1047.2 |
| 15° | 5105.1 | 3896.8 | 2013.8 | 1309.0 | 1178.1 | 1107.6 | 1057.3 | 1006.9 | 976.7 | 956.6 | 966.6 |
| 17.5° | 5336.7 | 3876.6 | 1762.1 | 1218.4 | 1107.6 | 1037.1 | 976.7 | 926.4 | 896.2 | 876.0 | 876.0 |
| 20° | 5598.4 | 3856.5 | 1540.6 | 1137.8 | 1037.1 | 966.6 | 896.2 | 855.9 | 825.7 | 805.5 | 805.5 |
| 22.5° | 5870.3 | 3816.2 | 1369.4 | 1057.3 | 956.6 | 886.1 | 825.7 | 775.3 | 745.1 | 725.0 | 725.0 |
| 25° | 6132.1 | 3775.9 | 1218.4 | 986.8 | 896.2 | 815.6 | 755.2 | 704.8 | 664.6 | 654.5 | 654.5 |
| 27.5° | 6414.1 | 3725.6 | 1107.6 | 916.3 | 825.7 | 755.2 | 684.7 | 634.4 | 604.1 | 594.1 | 594.1 |
| 30° | 6756.4 | 3755.8 | 1067.3 | 845.8 | 765.3 | 694.8 | 634.4 | 584.0 | 553.8 | 553.8 | 553.8 |
| 32.5° | 7078.6 | 3775.9 | 1117.7 | 815.6 | 704.8 | 634.4 | 573.9 | 533.7 | 513.5 | 513.5 | 513.5 |
| 35° | 7441.1 | 3816.2 | 1168.0 | 845.8 | 664.6 | 584.0 | 533.7 | 503.5 | 473.3 | 473.3 | 473.3 |
| 37.5° | 7864.0 | 3826.3 | 1208.3 | 886.1 | 654.5 | 543.7 | 513.5 | 473.3 | 453.1 | 453.1 | 453.1 |
| 40° | 8589.0 | 3987.4 | 1208.3 | 916.3 | 654.5 | 503.5 | 463.2 | 433.0 | 412.8 | 412.8 | 412.8 |
| 42.5° | 9485.1 | 4490.8 | 1188.2 | 926.4 | 664.6 | 493.4 | 433.0 | 412.8 | 392.7 | 392.7 | 392.7 |
| 45° | 10431.6 | 5074.9 | 1319.1 | 876.0 | 664.6 | 493.4 | 402.8 | 402.8 | 372.6 | 372.6 | 372.6 |
| 47.5° | 11539.3 | 5658.9 | 1450.0 | 795.5 | 674.6 | 493.4 | 392.7 | 362.5 | 352.4 | 352.4 | 352.4 |
| 50° | 12979.1 | 6041.5 | 1490.2 | 704.8 | 654.5 | 493.4 | 372.6 | 352.4 | 332.3 | 342.4 | 342.4 |
| 52.5° | 14096.8 | 6031.4 | 1439.9 | 614.2 | 614.2 | 483.3 | 352.4 | 342.4 | 332.3 | 332.3 | 332.3 |
| 55° | 15023.2 | 5870.3 | 1178.1 | 523.6 | 543.7 | 412.8 | 342.4 | 342.4 | 322.2 | 322.2 | 322.2 |
| 57.5° | 15748.2 | 5366.9 | 845.8 | 443.0 | 453.1 | 342.4 | 332.3 | 332.3 | 322.2 | 312.1 | 312.1 |
| 60° | 16080.4 | 4551.3 | 584.0 | 382.6 | 372.6 | 312.1 | 312.1 | 312.1 | 302.1 | 292.0 | 292.0 |
| 62.5° | 15486.4 | 3725.6 | 422.9 | 332.3 | 302.1 | 281.9 | 292.0 | 292.0 | 271.9 | 251.7 | 241.7 |
| 63° | *15154.1* | *3554.4* | *402.8* | *322.2* | *292.0* | *281.9* | *292.0* | *292.0* | *271.9* | *241.7* | *231.6* |
| 65° | 14056.5 | 2869.7 | 352.4 | 292.0 | 261.8 | 251.7 | 271.9 | 261.8 | 231.6 | 181.2 | 181.2 |
| 67.5° | 12576.4 | 1903.1 | 302.1 | 261.8 | 231.6 | 221.5 | 231.6 | 231.6 | 201.4 | 161.1 | 151.0 |
| 70° | 10723.6 | 1198.2 | 251.7 | 211.5 | 191.3 | 171.2 | 181.2 | 201.4 | 171.2 | 130.9 | 120.8 |
| 72.5° | 8800.4 | 835.7 | 201.4 | 171.2 | 151.0 | 120.8 | 151.0 | 171.2 | 141.0 | 100.7 | 100.7 |
| 75° | 5930.7 | 533.7 | 161.1 | 130.9 | 110.8 | 100.7 | 120.8 | 130.9 | 110.8 | 70.5 | 70.5 |
| 77.5° | 1872.9 | 271.9 | 130.9 | 100.7 | 80.6 | 70.5 | 80.6 | 90.6 | 60.4 | 40.3 | 40.3 |
| 80° | 412.8 | 161.1 | 90.6 | 70.5 | 60.4 | 50.3 | 50.3 | 30.2 | 20.1 | 20.1 | 10.1 |
| 82.5° | 151.0 | 100.7 | 70.5 | 50.3 | 40.3 | 30.2 | 20.1 | 20.1 | 10.1 | 0.0 | 0.0 |
| 85° | 80.6 | 60.4 | 40.3 | 30.2 | 30.2 | 20.1 | 20.1 | 10.1 | 0.0 | 0.0 | 0.0 |
| 87.5° | 50.3 | 40.3 | 30.2 | 30.2 | 20.1 | 20.1 | 10.1 | 10.1 | 0.0 | 0.0 | 0.0 |
| 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: SP1-2407-184-5

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-735-U-5WQ

Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

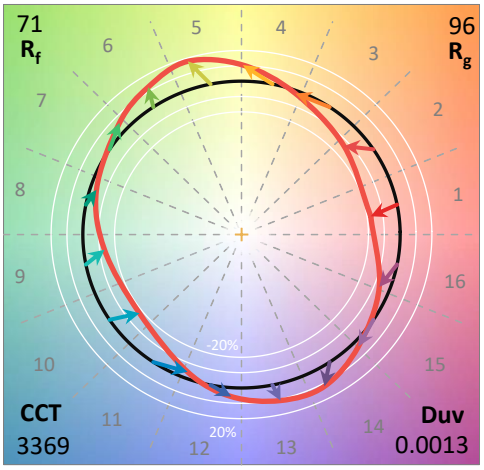
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2407-184-5 |
| 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-735-U-5WQ** |
| Description: | GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3500K CCT 26 LEDS |

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 3369 |
| CIE u': | 0.2386 |
| CIE v': | 0.5156 |
| Duv: | 0.0013 |
| CIE x: | 0.4143 |
| CIE y: | 0.3980 |
| CIE z: | 0.1877 |
| Peak Wavelength (nm): | 590 |
| Dominant Wavelength (nm): | 580 |
| Purity: | 43.80166 |
| Rf: | 71.4 |
| Rg: | 96 |

| | |
|---|---|
| CRI (Ra): | 70.1 |
| R1: | 66.6 |
| R2: | 77.6 |
| R3: | 88.5 |
| R4: | 69.5 |
| R5: | 66.4 |
| R6: | 69.6 |
| R7: | 77.5 |
| R8: | 44.9 |
| R9: | -40.2 |
| R10: | 49.1 |
| R11: | 66.3 |
| R12: | 45.7 |
| R13: | 68.0 |
| R14: | 93.4 |
| R15: | 57.6 |




## Test Conditions

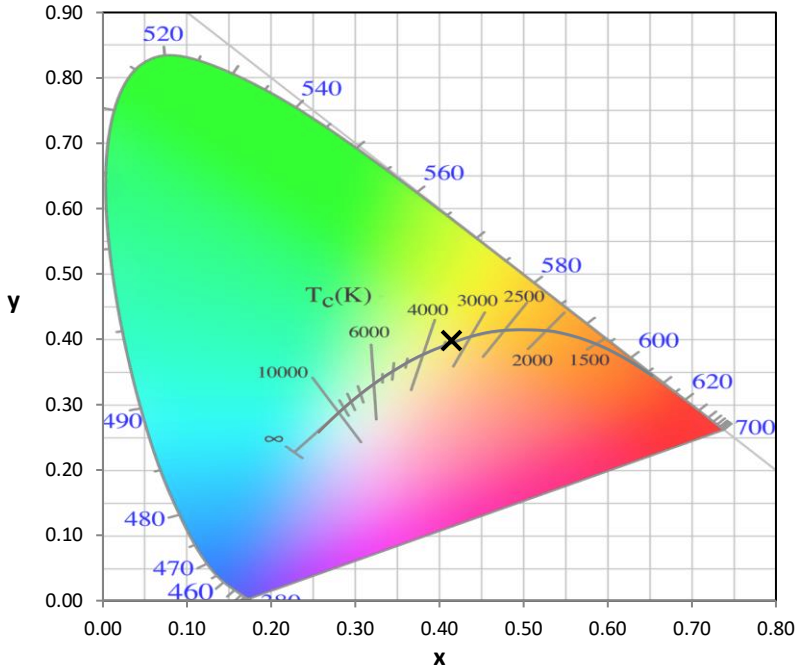
| | |
|---|---|
| Stabilization Time: | 21M |
| Operation Time: | 1H 21M |
| Sphere Temperature (°C): | 25.2 |

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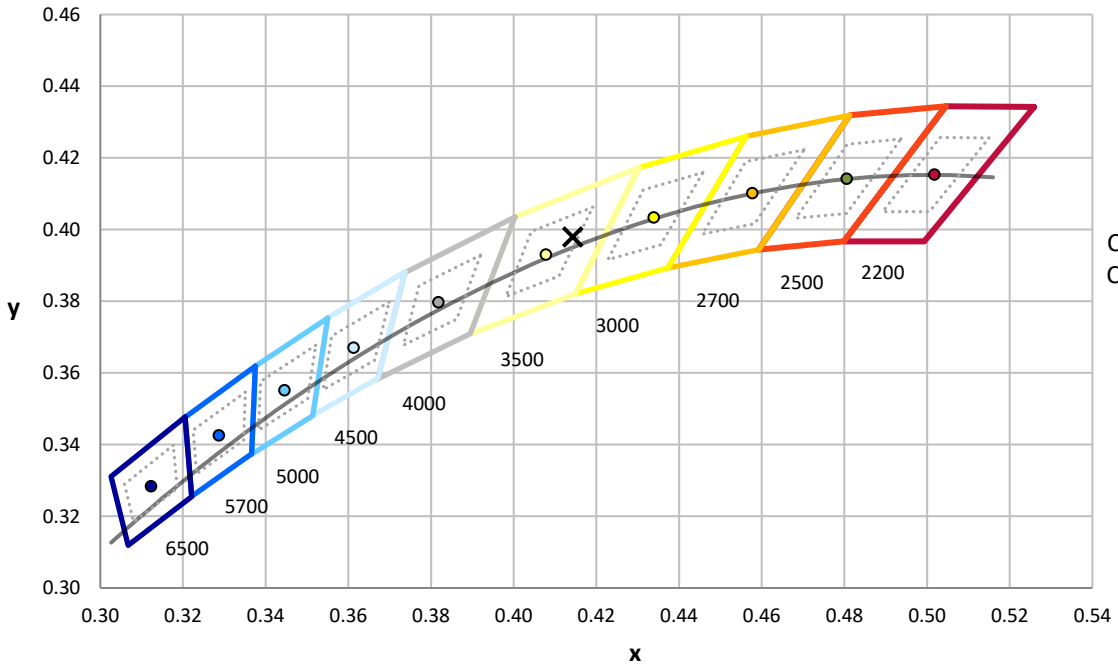
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC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

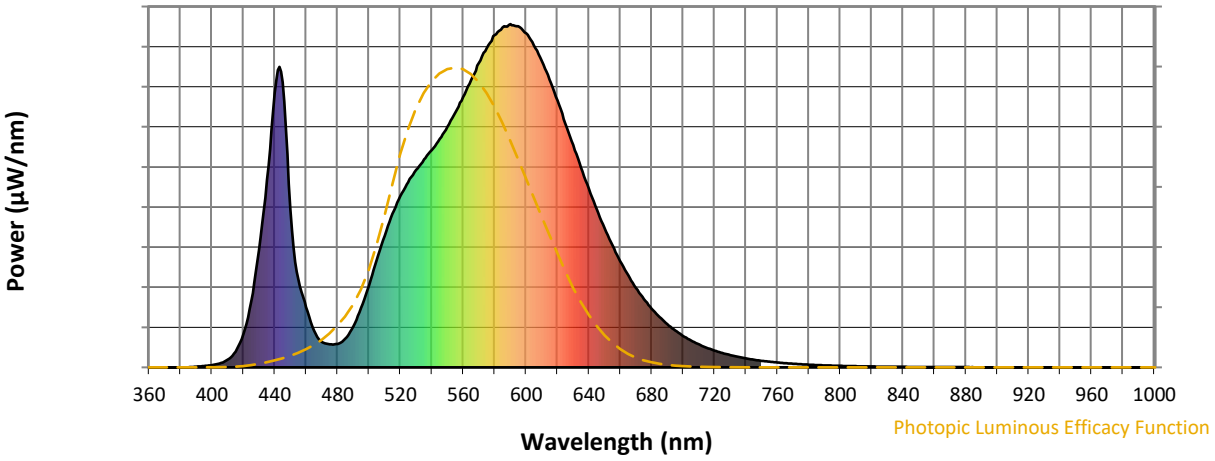



CCT = 3369K
CIE x = 0.4143
CIE y = 0.3980
Duv = 0.0013

Point lies inside the ANSI 3500K 4-step quadrangle

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## Photopic Flux vs. Wavelength

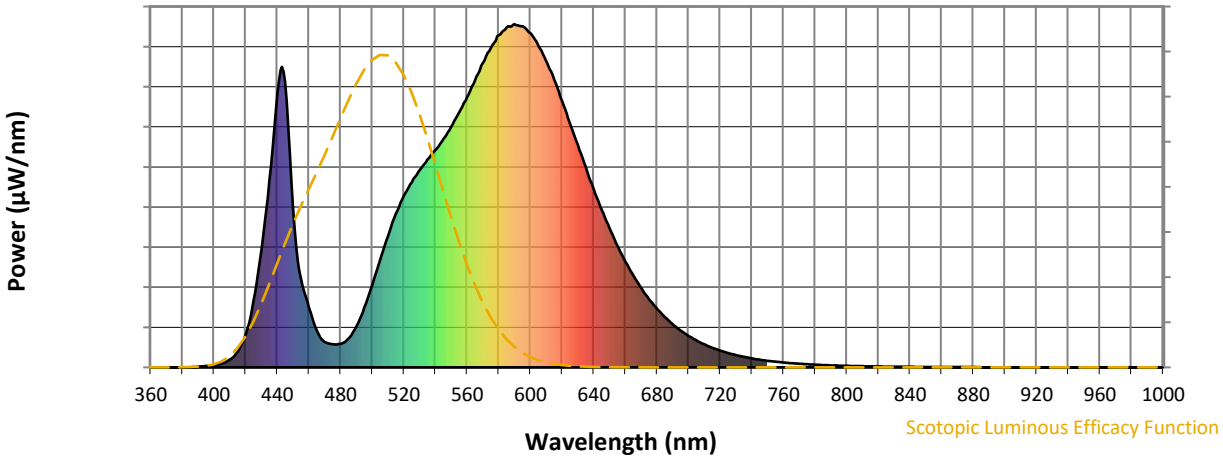



## Photopic Lumens: NR

| 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 | 119 | NR | 620 | 778 | NR | 750 | 19 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 173 | NR | 625 | 711 | NR | 755 | 16 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 239 | NR | 630 | 648 | NR | 760 | 14 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 313 | NR | 635 | 582 | NR | 765 | 12 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 383 | NR | 640 | 520 | NR | 770 | 11 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 448 | NR | 645 | 460 | NR | 775 | 9 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 500 | NR | 650 | 406 | NR | 780 | 8 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 539 | NR | 655 | 355 | NR | 785 | 7 | NR | 915 | 0 | NR |
| 400 | 6 | NR | 530 | 575 | NR | 660 | 309 | NR | 790 | 6 | NR | 920 | 0 | NR |
| 405 | 11 | NR | 535 | 606 | NR | 665 | 269 | NR | 795 | 5 | NR | 925 | 0 | NR |
| 410 | 22 | NR | 540 | 633 | NR | 670 | 231 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 45 | NR | 545 | 666 | NR | 675 | 199 | NR | 805 | 4 | NR | 935 | 0 | NR |
| 420 | 96 | NR | 550 | 701 | NR | 680 | 171 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 193 | NR | 555 | 743 | NR | 685 | 147 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 341 | NR | 560 | 788 | NR | 690 | 126 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 547 | NR | 565 | 837 | NR | 695 | 107 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 799 | NR | 570 | 887 | NR | 700 | 92 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 831 | NR | 575 | 931 | NR | 705 | 78 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 461 | NR | 580 | 967 | NR | 710 | 67 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 256 | NR | 585 | 990 | NR | 715 | 57 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 176 | NR | 590 | 1000 | NR | 720 | 49 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 107 | NR | 595 | 994 | NR | 725 | 42 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 74 | NR | 600 | 973 | NR | 730 | 36 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 67 | NR | 605 | 938 | NR | 735 | 31 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 68 | NR | 610 | 892 | NR | 740 | 26 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 84 | NR | 615 | 838 | NR | 745 | 22 | NR | 875 | 1 | NR | | | |

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## Scotopic Flux vs. Wavelength

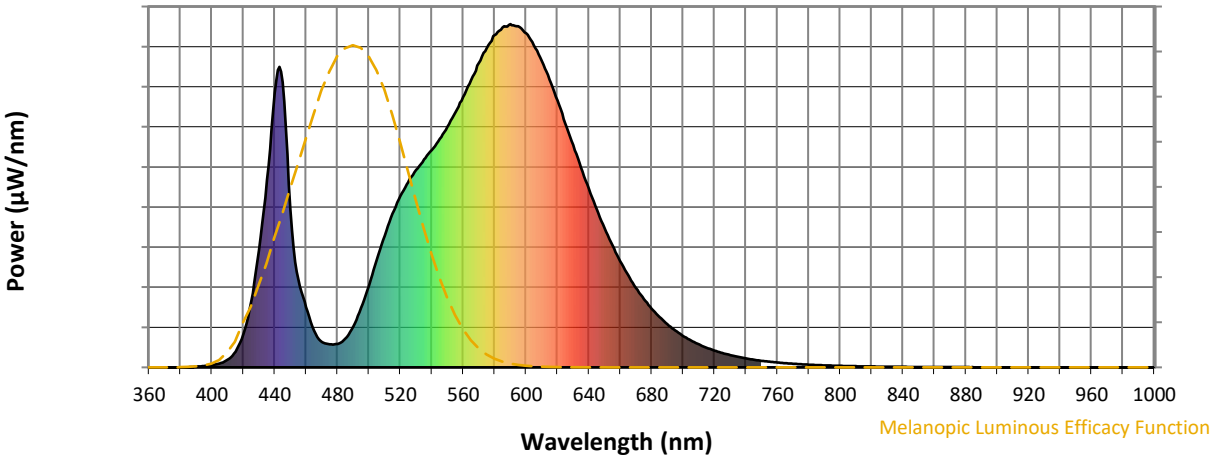



**Scotopic Lumens: NR** **S/P: 1.29**

| 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 | 119 | NR | 620 | 778 | NR | 750 | 19 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 173 | NR | 625 | 711 | NR | 755 | 16 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 239 | NR | 630 | 648 | NR | 760 | 14 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 313 | NR | 635 | 582 | NR | 765 | 12 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 383 | NR | 640 | 520 | NR | 770 | 11 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 448 | NR | 645 | 460 | NR | 775 | 9 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 500 | NR | 650 | 406 | NR | 780 | 8 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 539 | NR | 655 | 355 | NR | 785 | 7 | NR | 915 | 0 | NR |
| 400 | 6 | NR | 530 | 575 | NR | 660 | 309 | NR | 790 | 6 | NR | 920 | 0 | NR |
| 405 | 11 | NR | 535 | 606 | NR | 665 | 269 | NR | 795 | 5 | NR | 925 | 0 | NR |
| 410 | 22 | NR | 540 | 633 | NR | 670 | 231 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 45 | NR | 545 | 666 | NR | 675 | 199 | NR | 805 | 4 | NR | 935 | 0 | NR |
| 420 | 96 | NR | 550 | 701 | NR | 680 | 171 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 193 | NR | 555 | 743 | NR | 685 | 147 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 341 | NR | 560 | 788 | NR | 690 | 126 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 547 | NR | 565 | 837 | NR | 695 | 107 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 799 | NR | 570 | 887 | NR | 700 | 92 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 831 | NR | 575 | 931 | NR | 705 | 78 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 461 | NR | 580 | 967 | NR | 710 | 67 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 256 | NR | 585 | 990 | NR | 715 | 57 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 176 | NR | 590 | 1000 | NR | 720 | 49 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 107 | NR | 595 | 994 | NR | 725 | 42 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 74 | NR | 600 | 973 | NR | 730 | 36 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 67 | NR | 605 | 938 | NR | 735 | 31 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 68 | NR | 610 | 892 | NR | 740 | 26 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 84 | NR | 615 | 838 | NR | 745 | 22 | NR | 875 | 1 | NR | | | |

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## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 2.36**

| 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 | 119 | NR | 620 | 778 | NR | 750 | 19 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 173 | NR | 625 | 711 | NR | 755 | 16 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 239 | NR | 630 | 648 | NR | 760 | 14 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 313 | NR | 635 | 582 | NR | 765 | 12 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 383 | NR | 640 | 520 | NR | 770 | 11 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 448 | NR | 645 | 460 | NR | 775 | 9 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 500 | NR | 650 | 406 | NR | 780 | 8 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 539 | NR | 655 | 355 | NR | 785 | 7 | NR | 915 | 0 | NR |
| 400 | 6 | NR | 530 | 575 | NR | 660 | 309 | NR | 790 | 6 | NR | 920 | 0 | NR |
| 405 | 11 | NR | 535 | 606 | NR | 665 | 269 | NR | 795 | 5 | NR | 925 | 0 | NR |
| 410 | 22 | NR | 540 | 633 | NR | 670 | 231 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 45 | NR | 545 | 666 | NR | 675 | 199 | NR | 805 | 4 | NR | 935 | 0 | NR |
| 420 | 96 | NR | 550 | 701 | NR | 680 | 171 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 193 | NR | 555 | 743 | NR | 685 | 147 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 341 | NR | 560 | 788 | NR | 690 | 126 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 547 | NR | 565 | 837 | NR | 695 | 107 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 799 | NR | 570 | 887 | NR | 700 | 92 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 831 | NR | 575 | 931 | NR | 705 | 78 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 461 | NR | 580 | 967 | NR | 710 | 67 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 256 | NR | 585 | 990 | NR | 715 | 57 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 176 | NR | 590 | 1000 | NR | 720 | 49 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 107 | NR | 595 | 994 | NR | 725 | 42 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 74 | NR | 600 | 973 | NR | 730 | 36 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 67 | NR | 605 | 938 | NR | 735 | 31 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 68 | NR | 610 | 892 | NR | 740 | 26 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 84 | NR | 615 | 838 | NR | 745 | 22 | NR | 875 | 1 | NR | | | |

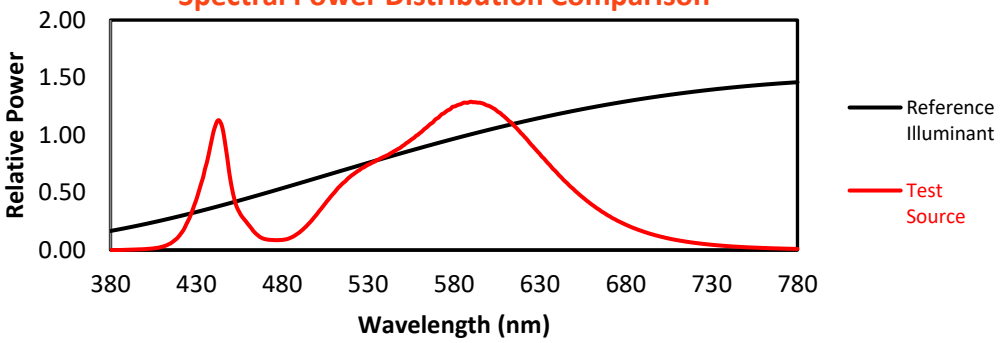
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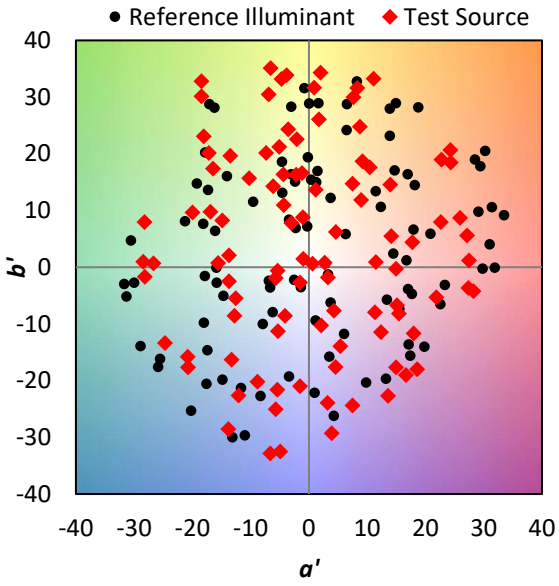
## Summary

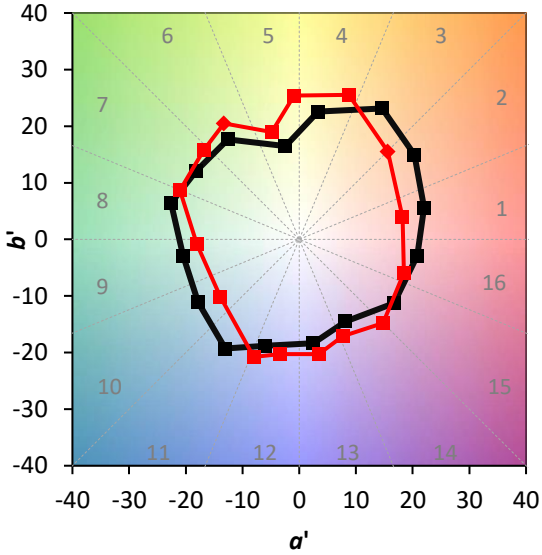
$R_f$ = 71.4
$R_g$ = 96
CIE $R_a$ = 70.1
$R_9$ = -40.2

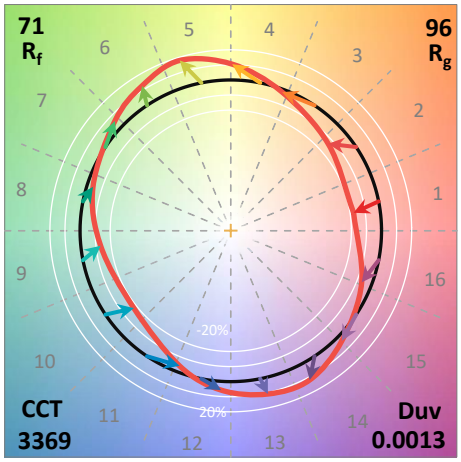
## Spectral Power Distribution Comparison

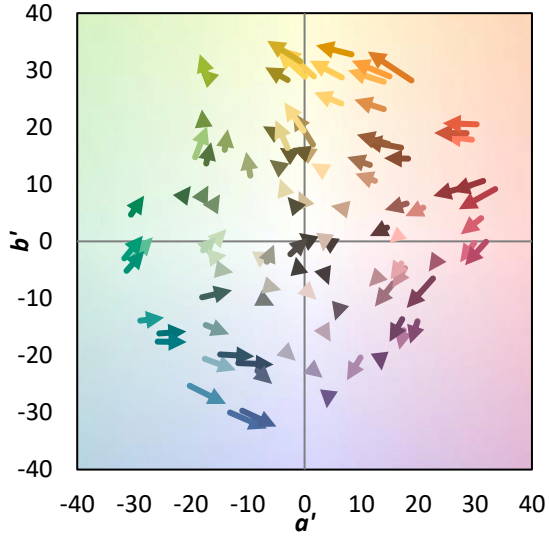



## Color Vector Graphics



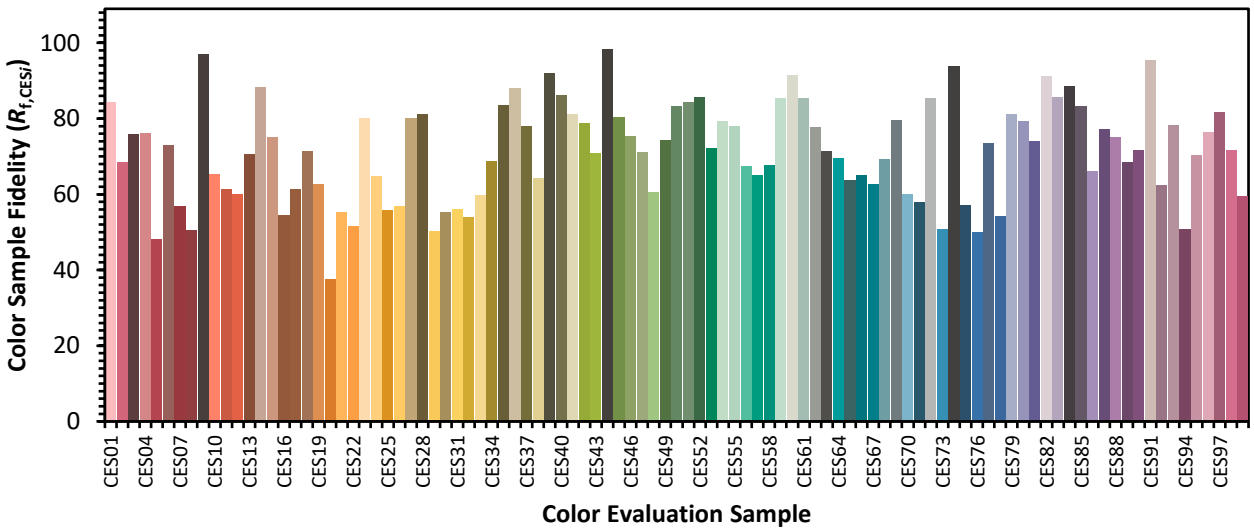



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## Individual Sample Fidelity Index ($R_{f,i}$)

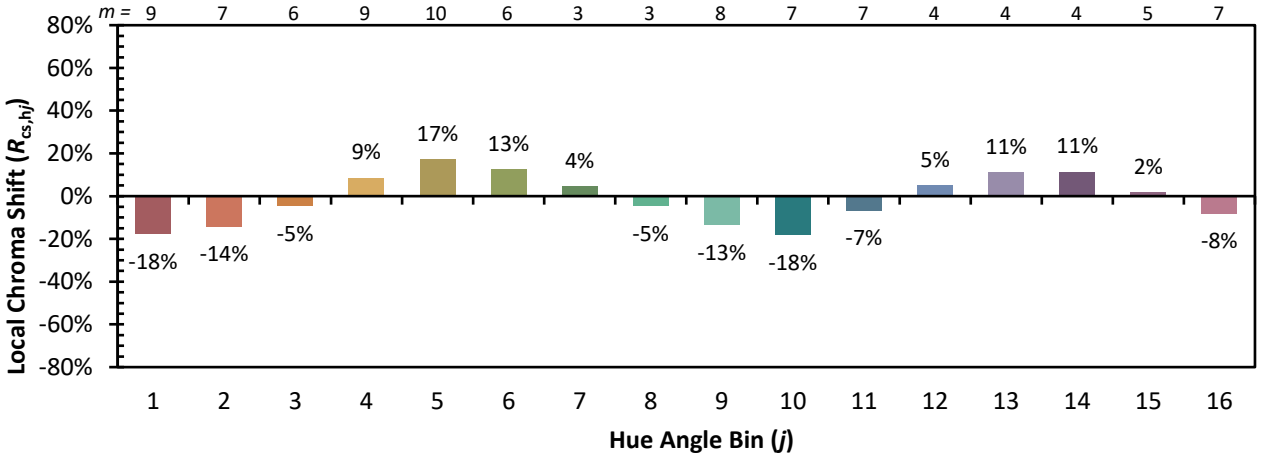
| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 57 | CES51 = 84 | CES76 = 50 |
| CES02 = 62 | CES27 = 80 | CES52 = 86 | CES77 = 74 |
| CES03 = 31 | CES28 = 81 | CES53 = 72 | CES78 = 54 |
| CES04 = 70 | CES29 = 50 | CES54 = 79 | CES79 = 81 |
| CES05 = 48 | CES30 = 55 | CES55 = 78 | CES80 = 79 |
| CES06 = 51 | CES31 = 56 | CES56 = 67 | CES81 = 74 |
| CES07 = 40 | CES32 = 54 | CES57 = 65 | CES82 = 91 |
| CES08 = 39 | CES33 = 60 | CES58 = 68 | CES83 = 86 |
| CES09 = 29 | CES34 = 69 | CES59 = 85 | CES84 = 89 |
| CES10 = 75 | CES35 = 83 | CES60 = 91 | CES85 = 83 |
| CES11 = 58 | CES36 = 88 | CES61 = 85 | CES86 = 66 |
| CES12 = 64 | CES37 = 78 | CES62 = 78 | CES87 = 77 |
| CES13 = 43 | CES38 = 64 | CES63 = 71 | CES88 = 75 |
| CES14 = 74 | CES39 = 92 | CES64 = 70 | CES89 = 68 |
| CES15 = 71 | CES40 = 86 | CES65 = 64 | CES90 = 72 |
| CES16 = 47 | CES41 = 81 | CES66 = 65 | CES91 = 95 |
| CES17 = 50 | CES42 = 79 | CES67 = 63 | CES92 = 62 |
| CES18 = 56 | CES43 = 71 | CES68 = 69 | CES93 = 78 |
| CES19 = 72 | CES44 = 98 | CES69 = 80 | CES94 = 51 |
| CES20 = 65 | CES45 = 80 | CES70 = 60 | CES95 = 70 |
| CES21 = 87 | CES46 = 75 | CES71 = 58 | CES96 = 76 |
| CES22 = 79 | CES47 = 71 | CES72 = 85 | CES97 = 82 |
| CES23 = 92 | CES48 = 61 | CES73 = 51 | CES98 = 72 |
| CES24 = 91 | CES49 = 74 | CES74 = 94 | CES99 = 60 |
| CES25 = 72 | CES50 = 83 | CES75 = 57 | |

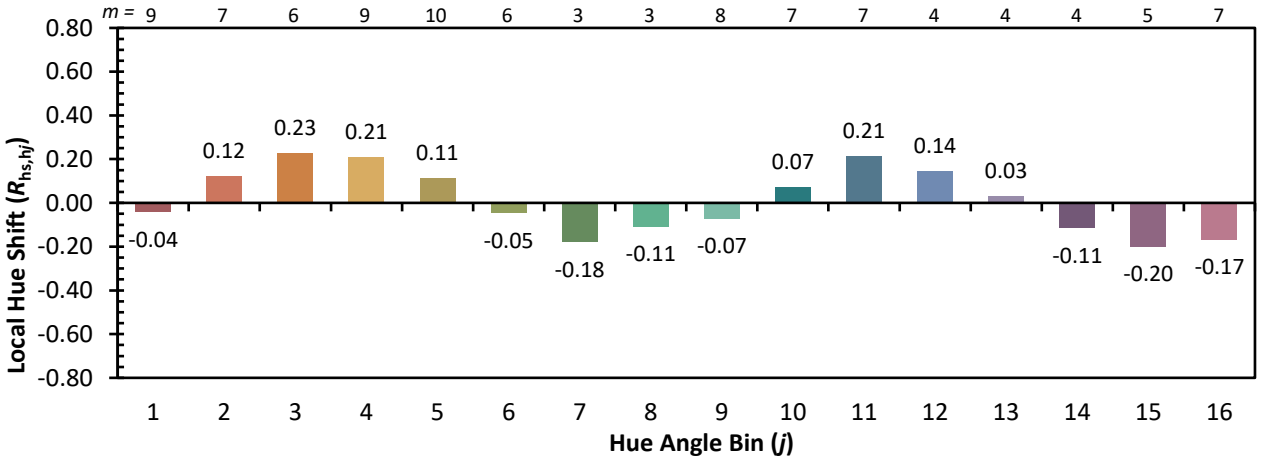


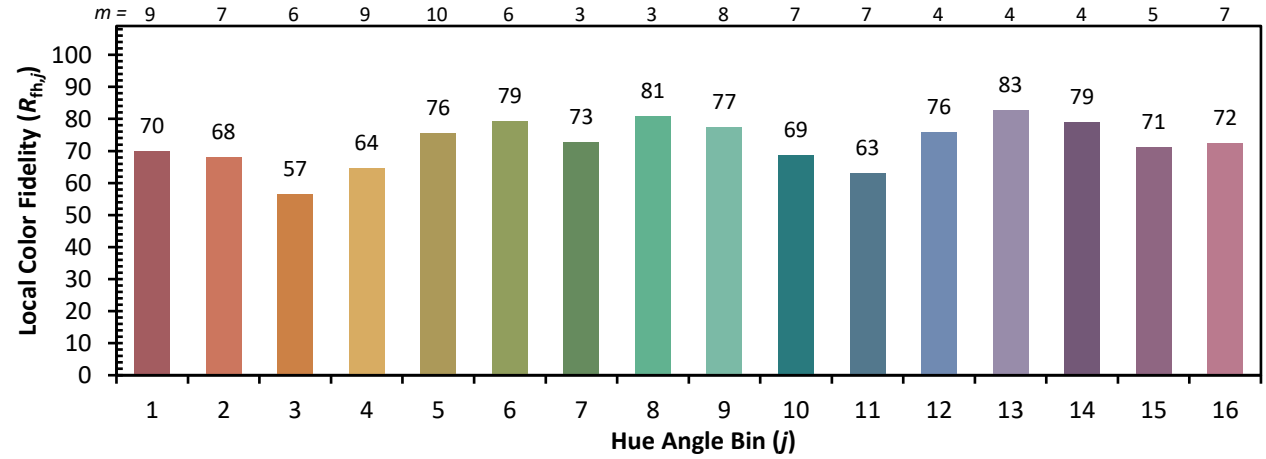
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## Color Rendition by Hue-Angle Bin



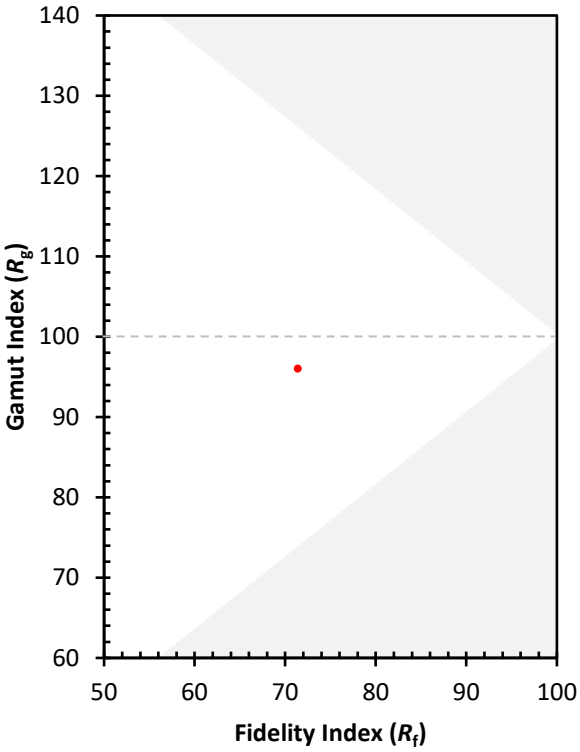



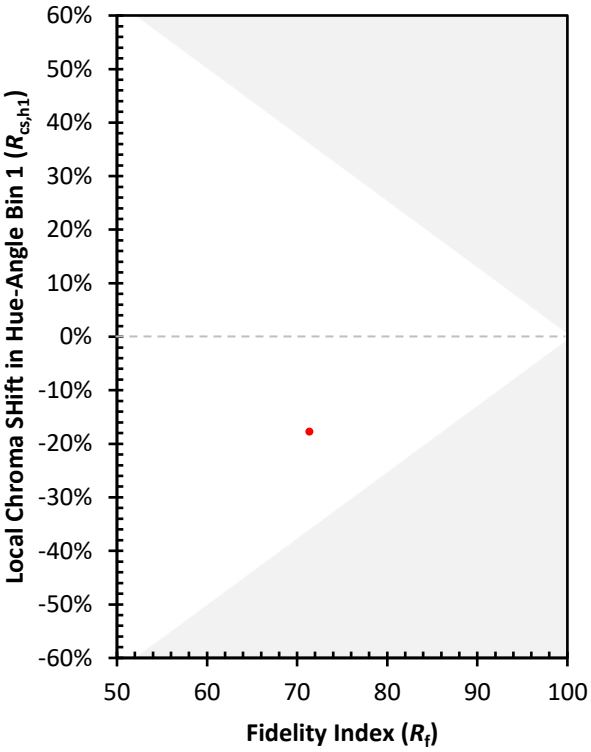



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## Measure Comparisons




(END OF REPORT)