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: P1367645

Luminaire Tested: **GSS-SB6C-727-U-T4W-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: | P1367645 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 02/18/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB6C-727-U-T4W-HSS |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 6SQUARE 300W 70CRI 2700K FIXTURE w/ TYPE IV WIDE DISTRIBUTION OPTIC AND HOUSE SIDE SHIELD |
| Light Source: | (156) 2700K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 29104.4 lumens |
| Efficiency: | N/A |
| Efficacy: | 97.0 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1' x H: 0') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B2 - U0 - G5 |

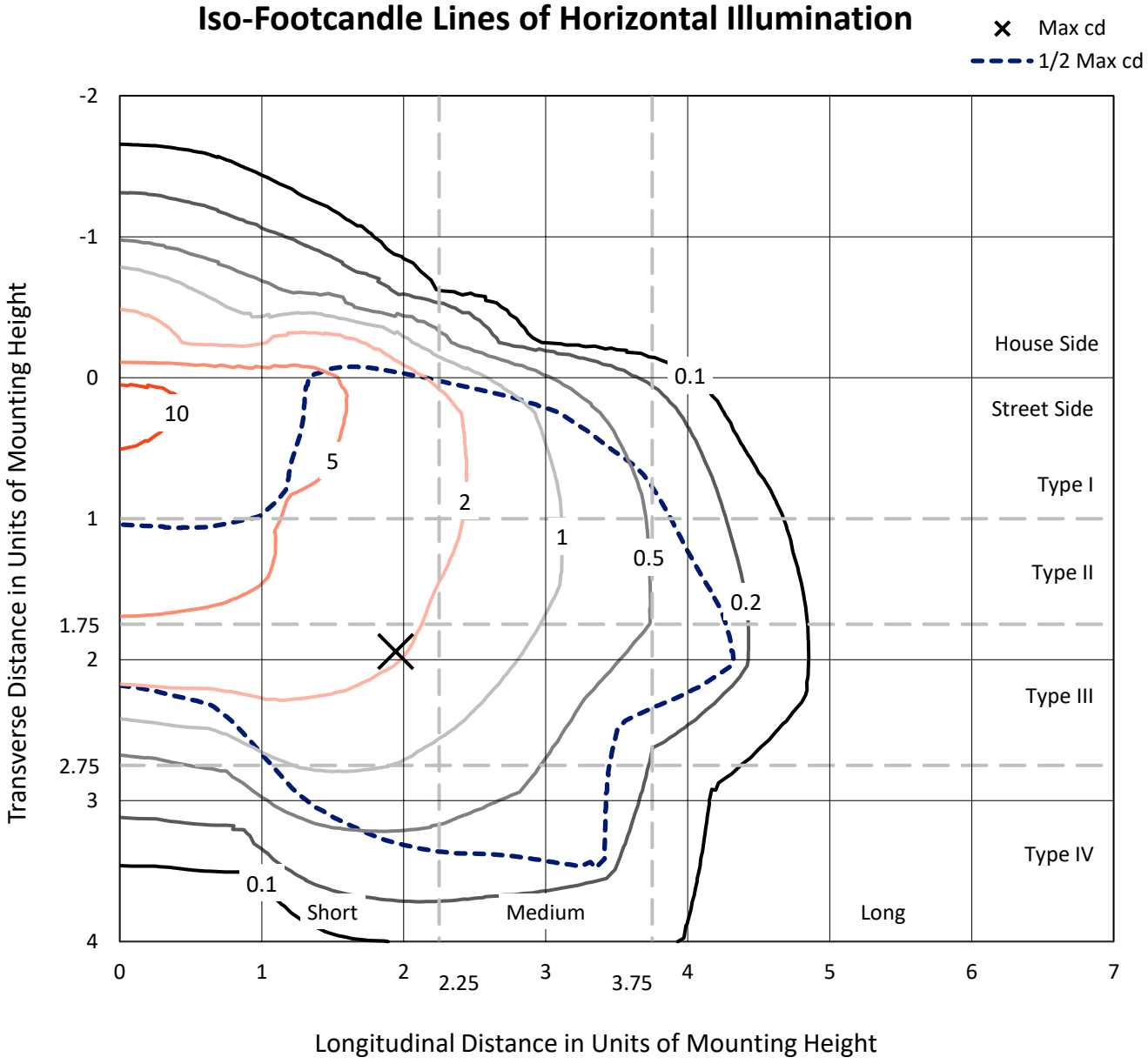
| | |
|---|---|
| Input Watts (W): | 300 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 6.3% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature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

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Scaled Data Report

REPORT NUMBER: P1367645
CATALOG NUMBER: GSS-SB6C-727-U-T4W-HSS

## Iso-Footcandle Lines of Horizontal Illumination



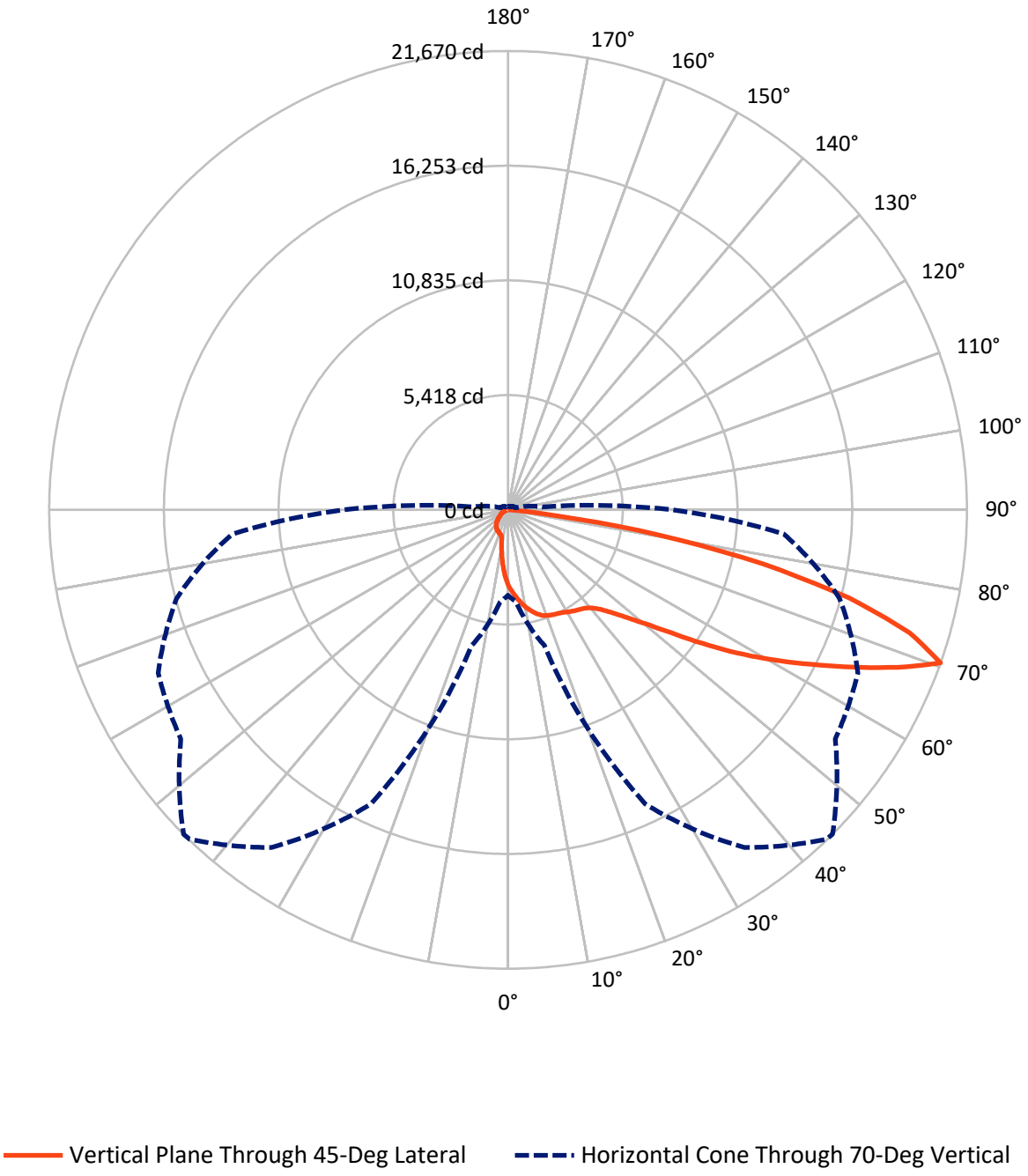

Based on 20 foot mounting height. Maximum calculated value = 12.6 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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Scaled Data Report

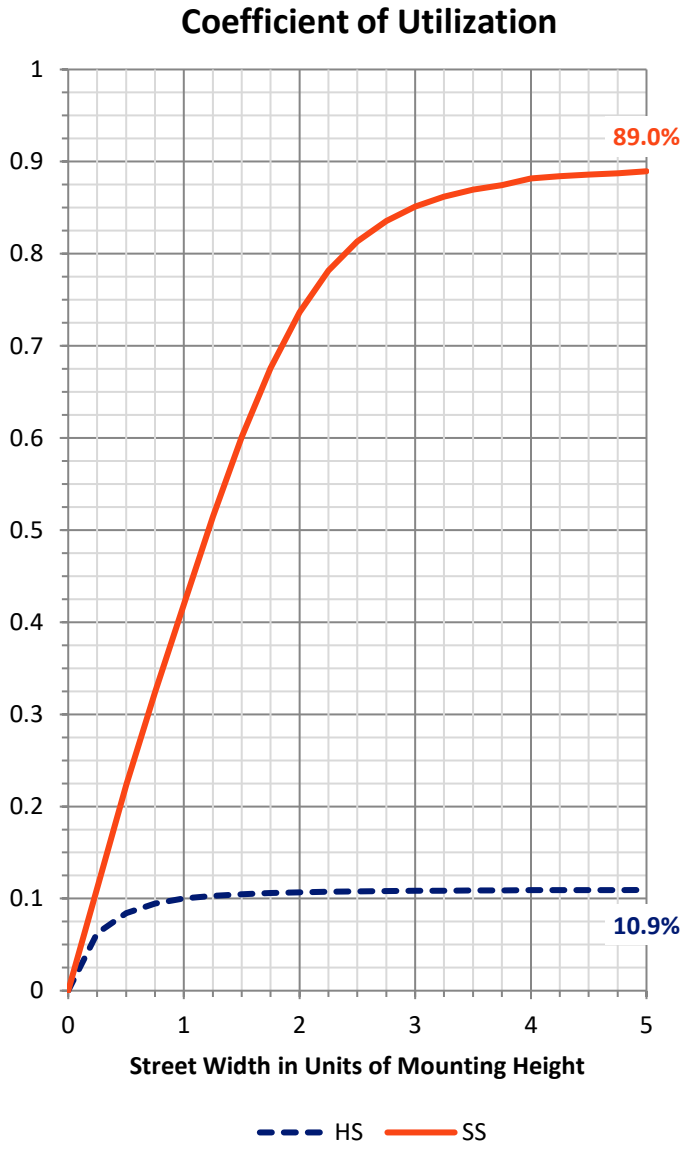
REPORT NUMBER: P1367645
CATALOG NUMBER: GSS-SB6C-727-U-T4W-HSS

**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 3214.0 | 0.0 | 3214.0 |
| | % Fixture | 11.0 | 0.0 | 11.0 |
| **Street Side** | Lumens | 25890.4 | 0.0 | 25890.4 |
| | % Fixture | 89.0 | 0.0 | 89.0 |
| **Total** | Lumens | 29104.4 | 0.0 | 29104.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 329.3 | 1.1 |
| 10°-20° | 971.7 | 3.3 |
| 20°-30° | 1612.9 | 5.5 |
| 30°-40° | 2286.7 | 7.9 |
| 40°-50° | 3626.6 | 12.5 |
| 50°-60° | 6386.3 | 21.9 |
| 60°-70° | 8278.4 | 28.4 |
| 70°-80° | 5287.7 | 18.2 |
| 80°-90° | 324.7 | 1.1 |
| 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° | 29104.4 | 100.0 |
| 0°-180° | 29104.4 | 100.0 |



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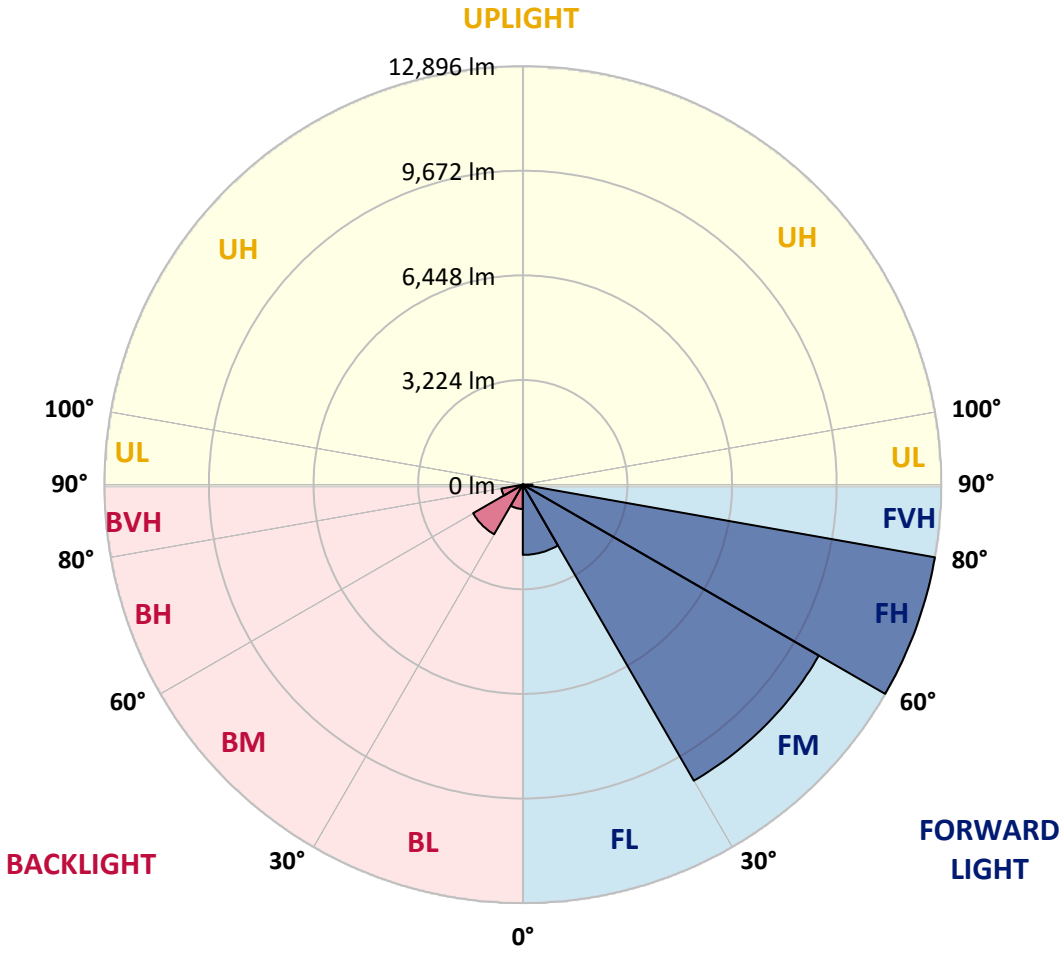
Scaled Data Report

REPORT NUMBER: P1367645
CATALOG NUMBER: GSS-SB6C-727-U-T4W-HSS

## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 2165.3 | 7.4 | | | |
| FM | (30°-60°) | 10533.3 | 36.2 | | | |
| FH | (60°-80°) | 12895.6 | 44.3 | | | G5 |
| FVH | (80°-90°) | 296.2 | 1.0 | | | G3/500 |
| BL | (0°-30°) | 748.7 | 2.6 | B2/1000 | | |
| BM | (30°-60°) | 1766.3 | 6.1 | B2/2500 | | |
| BH | (60°-80°) | 670.5 | 2.3 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 28.5 | 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 IV Short



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REPORT NUMBER: P1367645
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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 44° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 3597.6 | 3597.6 | 3597.6 | 3597.6 | 3597.6 | 3597.6 | 3597.6 | 3597.6 | 3597.6 | 3597.6 | 3597.6 |
| 2.5° | 4018.1 | 4018.1 | 3980.8 | 3962.1 | 3934.0 | 3878.0 | 3878.0 | 3840.6 | 3765.8 | 3709.8 | 3644.4 |
| 5° | 4429.3 | 4410.6 | 4354.5 | 4317.2 | 4242.4 | 4158.3 | 4158.3 | 4055.5 | 3943.4 | 3859.3 | 3719.1 |
| 7.5° | 4765.7 | 4756.4 | 4719.0 | 4653.6 | 4550.8 | 4448.0 | 4429.3 | 4307.8 | 4149.0 | 3999.5 | 3831.3 |
| 10° | 5092.8 | 5092.8 | 5008.7 | 4933.9 | 4821.8 | 4691.0 | 4691.0 | 4532.1 | 4345.2 | 4167.7 | 3952.7 |
| 12.5° | 5373.1 | 5335.7 | 5270.3 | 5148.8 | 5036.7 | 4905.9 | 4896.5 | 4737.7 | 4541.4 | 4354.5 | 4102.2 |
| 15° | 5588.0 | 5569.3 | 5485.2 | 5354.4 | 5223.6 | 5092.8 | 5092.8 | 4924.6 | 4737.7 | 4522.7 | 4251.8 |
| 17.5° | 5737.5 | 5728.2 | 5634.7 | 5485.2 | 5345.1 | 5232.9 | 5242.3 | 5092.8 | 4924.6 | 4700.3 | 4420.0 |
| 20° | 5774.9 | 5746.9 | 5672.1 | 5532.0 | 5419.8 | 5317.0 | 5326.4 | 5214.2 | 5064.7 | 4887.2 | 4578.8 |
| 22.5° | 5718.8 | 5709.5 | 5625.4 | 5513.3 | 5447.9 | 5373.1 | 5382.4 | 5317.0 | 5223.6 | 5036.7 | 4765.7 |
| 25° | 5653.4 | 5634.7 | 5578.7 | 5485.2 | 5447.9 | 5410.5 | 5429.2 | 5401.1 | 5363.8 | 5214.2 | 4952.6 |
| 27.5° | 5634.7 | 5616.1 | 5550.6 | 5466.5 | 5466.5 | 5466.5 | 5485.2 | 5522.6 | 5513.3 | 5391.8 | 5139.5 |
| 30° | 5662.8 | 5672.1 | 5606.7 | 5522.6 | 5503.9 | 5560.0 | 5597.4 | 5681.5 | 5681.5 | 5550.6 | 5345.1 |
| 32.5° | 5746.9 | 5737.5 | 5681.5 | 5569.3 | 5560.0 | 5653.4 | 5690.8 | 5812.3 | 5784.3 | 5681.5 | 5522.6 |
| 35° | 5915.1 | 5915.1 | 5831.0 | 5662.8 | 5625.4 | 5746.9 | 5784.3 | 5933.8 | 5933.8 | 5840.3 | 5700.2 |
| 37.5° | 6223.5 | 6260.8 | 6158.0 | 5887.1 | 5765.6 | 5831.0 | 5887.1 | 6064.6 | 6130.0 | 6017.9 | 5915.1 |
| 40° | 6774.8 | 6700.0 | 6597.2 | 6223.5 | 5999.2 | 6055.3 | 6083.3 | 6279.5 | 6373.0 | 6232.8 | 6167.4 |
| 42.5° | 8120.4 | 8036.3 | 7587.8 | 6737.4 | 6382.3 | 6391.7 | 6419.7 | 6606.6 | 6784.1 | 6625.3 | 6569.2 |
| 45° | 10110.8 | 10036.0 | 9279.1 | 7830.7 | 6952.3 | 6905.6 | 6943.0 | 7101.8 | 7344.8 | 7232.7 | 7176.6 |
| 47.5° | 11633.9 | 11540.5 | 10970.5 | 9438.0 | 7868.1 | 7587.8 | 7615.8 | 7737.3 | 8148.4 | 8055.0 | 8045.6 |
| 50° | 12372.1 | 12316.1 | 11979.7 | 11166.7 | 9409.9 | 8475.5 | 8466.1 | 8578.3 | 9138.9 | 9129.6 | 9157.6 |
| 52.5° | 13110.4 | 13110.4 | 12848.7 | 12465.6 | 11260.2 | 9699.6 | 9643.5 | 9540.8 | 10307.0 | 10363.1 | 10662.1 |
| 55° | 13914.0 | 13932.7 | 13923.3 | 13820.6 | 13091.7 | 11297.5 | 11120.0 | 10755.5 | 11662.0 | 11830.2 | 12194.6 |
| 57.5° | 14727.0 | 14764.3 | 14839.1 | 15240.9 | 15035.3 | 12979.5 | 12755.3 | 12082.5 | 13250.5 | 13213.2 | 13446.8 |
| 60° | 15362.4 | 15399.8 | 15708.1 | 16455.7 | 16623.9 | 14680.2 | 14371.9 | 13605.6 | 14829.8 | 14614.8 | 14465.3 |
| 62.5° | 14979.3 | 15072.7 | 16166.0 | 17464.9 | 18016.2 | 16268.8 | 16072.6 | 15325.0 | 16390.3 | 15708.1 | 14857.8 |
| 65° | 11400.3 | 11867.5 | 14287.8 | 17661.2 | 19277.8 | 18072.3 | 17904.1 | 17156.5 | 17455.6 | 15876.3 | 14549.4 |
| 67.5° | 7045.8 | 7690.5 | 10316.4 | 16455.7 | 19922.5 | 20034.7 | 19847.8 | 18511.5 | 17539.7 | 16016.5 | 14194.3 |
| 70° | 4036.8 | 4363.9 | 6625.3 | 15315.7 | 19464.6 | 21632.6 | 21670.0 | 18866.6 | 18231.2 | 16212.7 | 13063.6 |
| 72.5° | 2663.2 | 2756.6 | 3635.0 | 12811.3 | 18866.6 | 19614.2 | 19829.1 | 20174.8 | 18698.4 | 15315.7 | 10774.2 |
| 75° | 1214.8 | 1261.5 | 1831.5 | 8195.1 | 14353.2 | 16857.5 | 16651.9 | 16801.5 | 17754.6 | 13381.4 | 7905.5 |
| 77.5° | 383.1 | 439.2 | 738.2 | 3121.1 | 7634.5 | 12465.6 | 12316.1 | 8662.4 | 13157.1 | 7326.1 | 2476.3 |
| 80° | 186.9 | 214.9 | 439.2 | 943.8 | 2822.0 | 7064.5 | 7242.0 | 2952.9 | 4167.7 | 1654.0 | 504.6 |
| 82.5° | 84.1 | 93.4 | 252.3 | 448.5 | 1102.7 | 2074.5 | 2205.3 | 962.5 | 1084.0 | 513.9 | 186.9 |
| 85° | 37.4 | 46.7 | 102.8 | 177.5 | 308.4 | 336.4 | 364.4 | 205.6 | 401.8 | 289.7 | 93.4 |
| 87.5° | 0.0 | 9.3 | 9.3 | 28.0 | 28.0 | 37.4 | 37.4 | 46.7 | 56.1 | 65.4 | 56.1 |
| 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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Scaled Data Report

REPORT NUMBER: P1367645
CATALOG NUMBER: GSS-SB6C-727-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 3597.6 | 3597.6 | 3597.6 | 3597.6 | 3597.6 | 3597.6 | 3597.6 | 3597.6 | 3597.6 | 3597.6 | 3597.6 |
| 2.5° | 3607.0 | 3560.3 | 3494.9 | 3401.4 | 3336.0 | 3233.2 | 3158.4 | 3102.4 | 3037.0 | 3055.7 | 3065.0 |
| 5° | 3635.0 | 3560.3 | 3382.7 | 3158.4 | 2962.2 | 2766.0 | 2625.8 | 2495.0 | 2410.9 | 2401.5 | 2364.2 |
| 7.5° | 3709.8 | 3579.0 | 3279.9 | 2915.5 | 2569.7 | 2308.1 | 2074.5 | 1896.9 | 1784.8 | 1747.4 | 1728.7 |
| 10° | 3812.6 | 3625.7 | 3158.4 | 2644.5 | 2186.6 | 1831.5 | 1560.5 | 1420.4 | 1364.3 | 1355.0 | 1355.0 |
| 12.5° | 3924.7 | 3691.1 | 3037.0 | 2373.5 | 1812.8 | 1429.7 | 1308.2 | 1289.5 | 1289.5 | 1298.9 | 1298.9 |
| 15° | 4055.5 | 3737.8 | 2896.8 | 2055.8 | 1448.4 | 1261.5 | 1252.2 | 1252.2 | 1252.2 | 1270.9 | 1261.5 |
| 17.5° | 4186.3 | 3803.2 | 2728.6 | 1738.1 | 1252.2 | 1214.8 | 1214.8 | 1214.8 | 1214.8 | 1233.5 | 1224.1 |
| 20° | 4326.5 | 3849.9 | 2551.1 | 1448.4 | 1196.1 | 1186.8 | 1186.8 | 1177.4 | 1177.4 | 1196.1 | 1196.1 |
| 22.5° | 4485.4 | 3887.3 | 2354.8 | 1252.2 | 1168.1 | 1149.4 | 1149.4 | 1149.4 | 1140.0 | 1158.7 | 1158.7 |
| 25° | 4644.2 | 3943.4 | 2130.6 | 1149.4 | 1130.7 | 1121.3 | 1112.0 | 1112.0 | 1102.7 | 1121.3 | 1112.0 |
| 27.5° | 4821.8 | 4008.8 | 1915.6 | 1112.0 | 1102.7 | 1093.3 | 1084.0 | 1074.6 | 1065.3 | 1084.0 | 1074.6 |
| 30° | 5027.4 | 4074.2 | 1710.0 | 1093.3 | 1074.6 | 1065.3 | 1046.6 | 1037.2 | 1018.6 | 1037.2 | 1037.2 |
| 32.5° | 5214.2 | 4139.6 | 1551.2 | 1084.0 | 1055.9 | 1018.6 | 990.5 | 971.8 | 962.5 | 981.2 | 990.5 |
| 35° | 5410.5 | 4242.4 | 1467.1 | 1102.7 | 1037.2 | 981.2 | 934.5 | 906.4 | 897.1 | 915.8 | 925.1 |
| 37.5° | 5644.1 | 4363.9 | 1448.4 | 1140.0 | 1018.6 | 934.5 | 869.0 | 822.3 | 813.0 | 831.7 | 841.0 |
| 40° | 5971.2 | 4532.1 | 1485.8 | 1158.7 | 990.5 | 878.4 | 784.9 | 738.2 | 710.2 | 710.2 | 719.5 |
| 42.5° | 6391.7 | 4887.2 | 1513.8 | 1177.4 | 943.8 | 813.0 | 710.2 | 644.8 | 598.0 | 598.0 | 607.4 |
| 45° | 7036.4 | 5475.9 | 1654.0 | 1158.7 | 897.1 | 728.9 | 626.1 | 542.0 | 504.6 | 504.6 | 513.9 |
| 47.5° | 7905.5 | 6298.2 | 2046.5 | 1121.3 | 831.7 | 654.1 | 542.0 | 467.2 | 439.2 | 439.2 | 439.2 |
| 50° | 9054.8 | 7326.1 | 2467.0 | 1055.9 | 756.9 | 579.4 | 467.2 | 420.5 | 401.8 | 392.5 | 383.1 |
| 52.5° | 10428.5 | 8410.1 | 2766.0 | 990.5 | 691.5 | 513.9 | 420.5 | 383.1 | 364.4 | 355.1 | 355.1 |
| 55° | 11755.4 | 9176.3 | 2868.8 | 925.1 | 626.1 | 457.9 | 392.5 | 364.4 | 345.7 | 336.4 | 336.4 |
| 57.5° | 12559.0 | 9325.8 | 2448.3 | 850.4 | 560.7 | 420.5 | 355.1 | 336.4 | 317.7 | 308.4 | 308.4 |
| 60° | 12745.9 | 8681.1 | 1728.7 | 747.6 | 485.9 | 373.8 | 327.1 | 308.4 | 289.7 | 271.0 | 271.0 |
| 62.5° | 12082.5 | 7176.6 | 1205.4 | 607.4 | 429.8 | 336.4 | 299.0 | 280.3 | 252.3 | 233.6 | 224.3 |
| 65° | 10746.2 | 5242.3 | 850.4 | 476.6 | 373.8 | 299.0 | 261.6 | 243.0 | 214.9 | 186.9 | 177.5 |
| 67.5° | 9381.9 | 3177.1 | 551.3 | 392.5 | 327.1 | 243.0 | 224.3 | 214.9 | 186.9 | 158.9 | 158.9 |
| 70° | *7765.3* | *1625.9* | *383.1* | *317.7* | *271.0* | *196.2* | *186.9* | *186.9* | *168.2* | *140.2* | *140.2* |
| 72.5° | 5989.8 | 598.0 | 261.6 | 252.3 | 205.6 | 149.5 | 168.2 | 158.9 | 140.2 | 121.5 | 121.5 |
| 75° | 4064.9 | 289.7 | 196.2 | 177.5 | 140.2 | 121.5 | 130.8 | 130.8 | 121.5 | 102.8 | 93.4 |
| 77.5° | 1289.5 | 186.9 | 149.5 | 140.2 | 112.1 | 102.8 | 112.1 | 112.1 | 93.4 | 84.1 | 74.8 |
| 80° | 327.1 | 130.8 | 121.5 | 102.8 | 84.1 | 84.1 | 93.4 | 74.8 | 74.8 | 65.4 | 65.4 |
| 82.5° | 140.2 | 93.4 | 84.1 | 74.8 | 65.4 | 65.4 | 65.4 | 65.4 | 56.1 | 56.1 | 56.1 |
| 85° | 74.8 | 65.4 | 56.1 | 56.1 | 56.1 | 46.7 | 46.7 | 56.1 | 46.7 | 46.7 | 46.7 |
| 87.5° | 46.7 | 46.7 | 37.4 | 28.0 | 28.0 | 37.4 | 37.4 | 37.4 | 37.4 | 37.4 | 37.4 |
| 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: SP1-2407-184-3

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-727-U-5WQ

Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

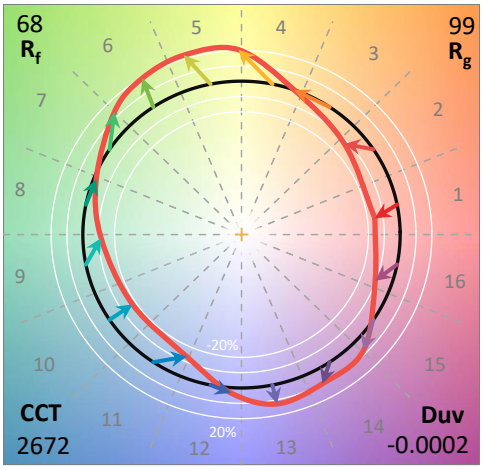
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2407-184-3 |
| 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-727-U-5WQ** |
| Description: | GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 2700K CCT 26 LEDS |

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 2672 |
| CIE u': | 0.2638 |
| CIE v': | 0.5276 |
| Duv: | -0.0002 |
| CIE x: | 0.4619 |
| CIE y: | 0.4106 |
| CIE z: | 0.1275 |
| Peak Wavelength (nm): | 601 |
| Dominant Wavelength (nm): | 584 |
| Purity: | 61.88407 |
| Rf: | 67.9 |
| Rg: | 98.6 |

| | |
|---|---|
| CRI (Ra): | 71.1 |
| R1: | 68.3 |
| R2: | 79.8 |
| R3: | 91.2 |
| R4: | 69.4 |
| R5: | 66.5 |
| R6: | 72.6 |
| R7: | 77.0 |
| R8: | 44.1 |
| R9: | -27.8 |
| R10: | 54.4 |
| R11: | 65.8 |
| R12: | 45.6 |
| R13: | 69.8 |
| R14: | 94.5 |
| R15: | 60.1 |




## Test Conditions

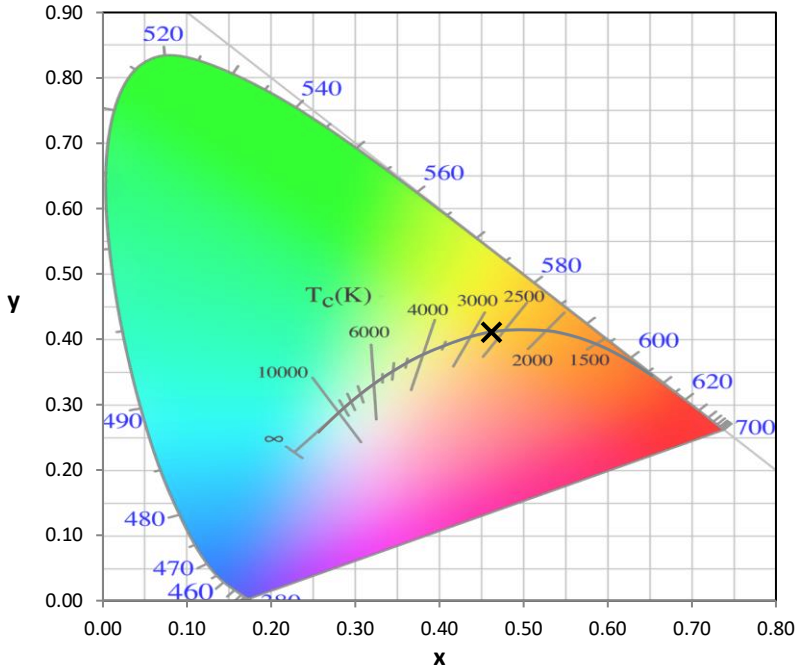
| | |
|---|---|
| Stabilization Time: | 21M |
| Operation Time: | 1H 21M |
| Sphere Temperature (°C): | 25.2 |

REPORT NUMBER: SP1-2407-184-3

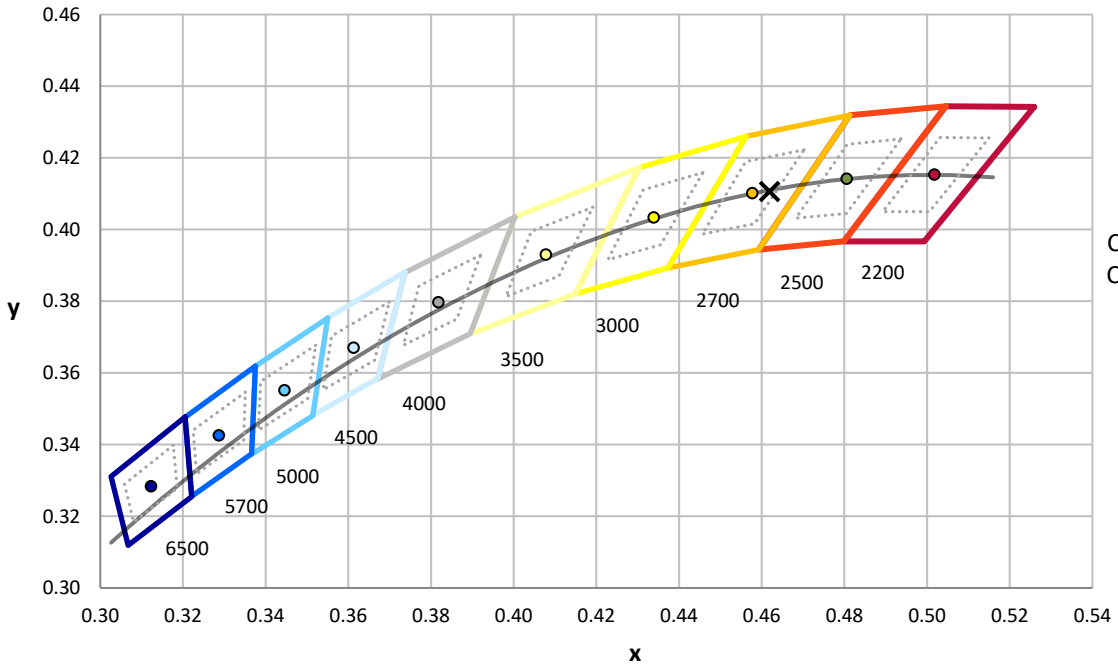
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC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

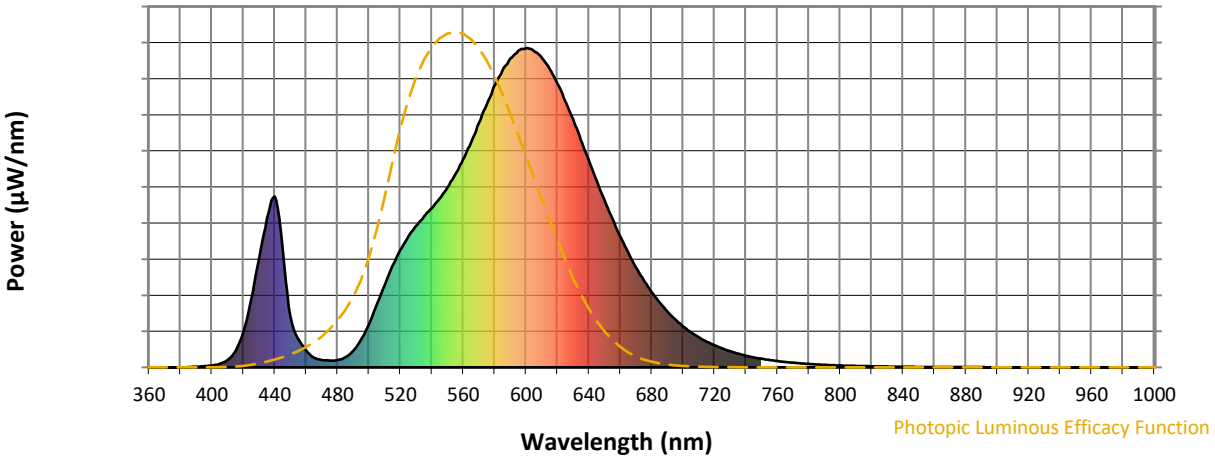



CCT = 2672K
CIE x = 0.4619
CIE y = 0.4106
Duv = -0.0002

Point lies inside the ANSI 2700K 4-step quadrangle

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## Photopic Flux vs. Wavelength

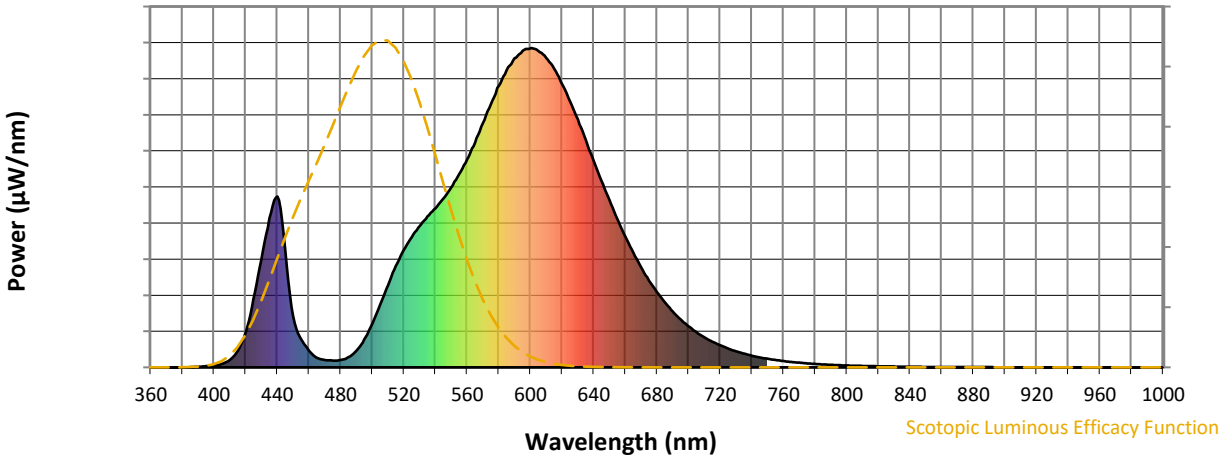



## Photopic Lumens: NR

| 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 | 52 | NR | 620 | 888 | NR | 750 | 27 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 87 | NR | 625 | 834 | NR | 755 | 23 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 135 | NR | 630 | 776 | NR | 760 | 20 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 196 | NR | 635 | 712 | NR | 765 | 17 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 258 | NR | 640 | 648 | NR | 770 | 15 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 317 | NR | 645 | 583 | NR | 775 | 12 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 368 | NR | 650 | 523 | NR | 780 | 11 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 408 | NR | 655 | 465 | NR | 785 | 9 | NR | 915 | 0 | NR |
| 400 | 6 | NR | 530 | 443 | NR | 660 | 410 | NR | 790 | 8 | NR | 920 | 0 | NR |
| 405 | 11 | NR | 535 | 473 | NR | 665 | 360 | NR | 795 | 7 | NR | 925 | 0 | NR |
| 410 | 23 | NR | 540 | 498 | NR | 670 | 313 | NR | 800 | 6 | NR | 930 | 0 | NR |
| 415 | 51 | NR | 545 | 530 | NR | 675 | 272 | NR | 805 | 5 | NR | 935 | 0 | NR |
| 420 | 111 | NR | 550 | 563 | NR | 680 | 236 | NR | 810 | 4 | NR | 940 | 0 | NR |
| 425 | 214 | NR | 555 | 605 | NR | 685 | 203 | NR | 815 | 4 | NR | 945 | 0 | NR |
| 430 | 339 | NR | 560 | 651 | NR | 690 | 175 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 467 | NR | 565 | 705 | NR | 695 | 150 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 535 | NR | 570 | 765 | NR | 700 | 128 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 372 | NR | 575 | 824 | NR | 705 | 110 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 160 | NR | 580 | 882 | NR | 710 | 94 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 89 | NR | 585 | 930 | NR | 715 | 80 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 53 | NR | 590 | 968 | NR | 720 | 69 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 31 | NR | 595 | 991 | NR | 725 | 59 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 23 | NR | 600 | 999 | NR | 730 | 50 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 21 | NR | 605 | 992 | NR | 735 | 43 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 23 | NR | 610 | 969 | NR | 740 | 36 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 32 | NR | 615 | 935 | NR | 745 | 31 | NR | 875 | 1 | NR | | | |

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## Scotopic Flux vs. Wavelength

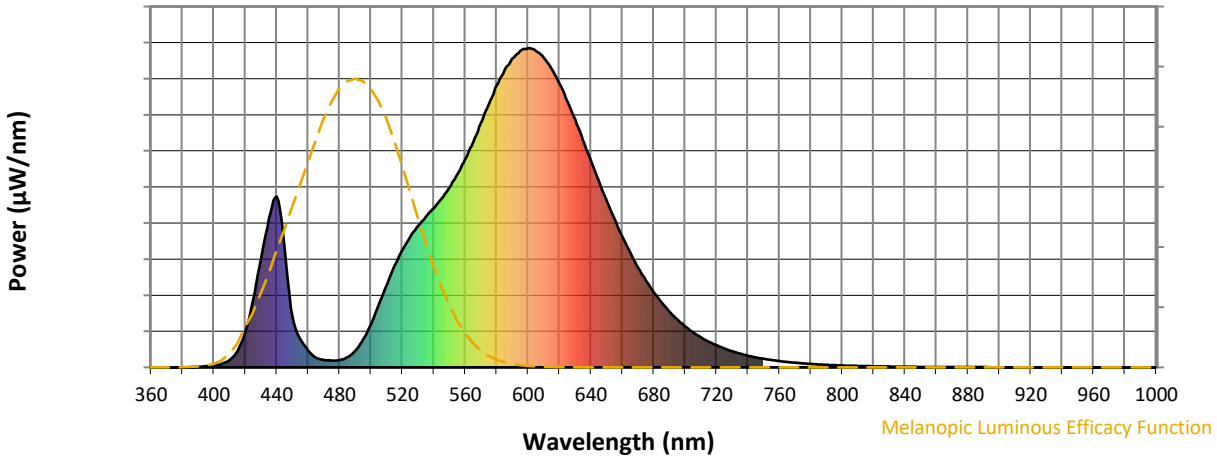



**Scotopic Lumens: NR** **S/P: 1.02**

| 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 | 52 | NR | 620 | 888 | NR | 750 | 27 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 87 | NR | 625 | 834 | NR | 755 | 23 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 135 | NR | 630 | 776 | NR | 760 | 20 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 196 | NR | 635 | 712 | NR | 765 | 17 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 258 | NR | 640 | 648 | NR | 770 | 15 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 317 | NR | 645 | 583 | NR | 775 | 12 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 368 | NR | 650 | 523 | NR | 780 | 11 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 408 | NR | 655 | 465 | NR | 785 | 9 | NR | 915 | 0 | NR |
| 400 | 6 | NR | 530 | 443 | NR | 660 | 410 | NR | 790 | 8 | NR | 920 | 0 | NR |
| 405 | 11 | NR | 535 | 473 | NR | 665 | 360 | NR | 795 | 7 | NR | 925 | 0 | NR |
| 410 | 23 | NR | 540 | 498 | NR | 670 | 313 | NR | 800 | 6 | NR | 930 | 0 | NR |
| 415 | 51 | NR | 545 | 530 | NR | 675 | 272 | NR | 805 | 5 | NR | 935 | 0 | NR |
| 420 | 111 | NR | 550 | 563 | NR | 680 | 236 | NR | 810 | 4 | NR | 940 | 0 | NR |
| 425 | 214 | NR | 555 | 605 | NR | 685 | 203 | NR | 815 | 4 | NR | 945 | 0 | NR |
| 430 | 339 | NR | 560 | 651 | NR | 690 | 175 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 467 | NR | 565 | 705 | NR | 695 | 150 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 535 | NR | 570 | 765 | NR | 700 | 128 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 372 | NR | 575 | 824 | NR | 705 | 110 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 160 | NR | 580 | 882 | NR | 710 | 94 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 89 | NR | 585 | 930 | NR | 715 | 80 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 53 | NR | 590 | 968 | NR | 720 | 69 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 31 | NR | 595 | 991 | NR | 725 | 59 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 23 | NR | 600 | 999 | NR | 730 | 50 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 21 | NR | 605 | 992 | NR | 735 | 43 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 23 | NR | 610 | 969 | NR | 740 | 36 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 32 | NR | 615 | 935 | NR | 745 | 31 | NR | 875 | 1 | NR | | | |

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## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 1.71**

| 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 | 52 | NR | 620 | 888 | NR | 750 | 27 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 87 | NR | 625 | 834 | NR | 755 | 23 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 135 | NR | 630 | 776 | NR | 760 | 20 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 196 | NR | 635 | 712 | NR | 765 | 17 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 258 | NR | 640 | 648 | NR | 770 | 15 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 317 | NR | 645 | 583 | NR | 775 | 12 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 368 | NR | 650 | 523 | NR | 780 | 11 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 408 | NR | 655 | 465 | NR | 785 | 9 | NR | 915 | 0 | NR |
| 400 | 6 | NR | 530 | 443 | NR | 660 | 410 | NR | 790 | 8 | NR | 920 | 0 | NR |
| 405 | 11 | NR | 535 | 473 | NR | 665 | 360 | NR | 795 | 7 | NR | 925 | 0 | NR |
| 410 | 23 | NR | 540 | 498 | NR | 670 | 313 | NR | 800 | 6 | NR | 930 | 0 | NR |
| 415 | 51 | NR | 545 | 530 | NR | 675 | 272 | NR | 805 | 5 | NR | 935 | 0 | NR |
| 420 | 111 | NR | 550 | 563 | NR | 680 | 236 | NR | 810 | 4 | NR | 940 | 0 | NR |
| 425 | 214 | NR | 555 | 605 | NR | 685 | 203 | NR | 815 | 4 | NR | 945 | 0 | NR |
| 430 | 339 | NR | 560 | 651 | NR | 690 | 175 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 467 | NR | 565 | 705 | NR | 695 | 150 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 535 | NR | 570 | 765 | NR | 700 | 128 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 372 | NR | 575 | 824 | NR | 705 | 110 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 160 | NR | 580 | 882 | NR | 710 | 94 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 89 | NR | 585 | 930 | NR | 715 | 80 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 53 | NR | 590 | 968 | NR | 720 | 69 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 31 | NR | 595 | 991 | NR | 725 | 59 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 23 | NR | 600 | 999 | NR | 730 | 50 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 21 | NR | 605 | 992 | NR | 735 | 43 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 23 | NR | 610 | 969 | NR | 740 | 36 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 32 | NR | 615 | 935 | NR | 745 | 31 | NR | 875 | 1 | NR | | | |

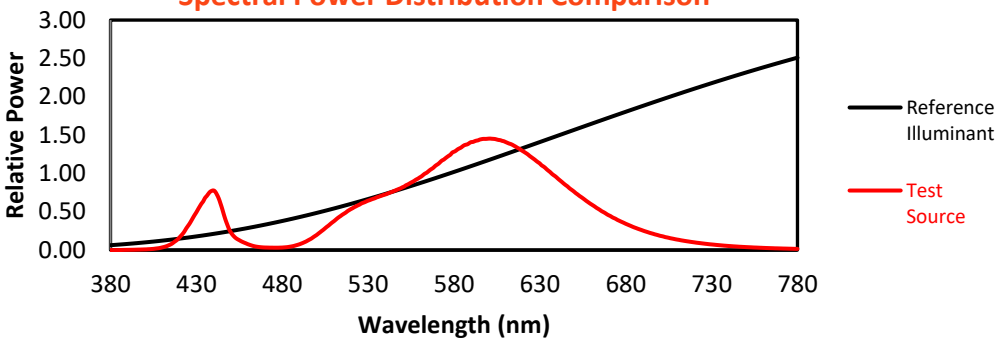
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# TM-30-18

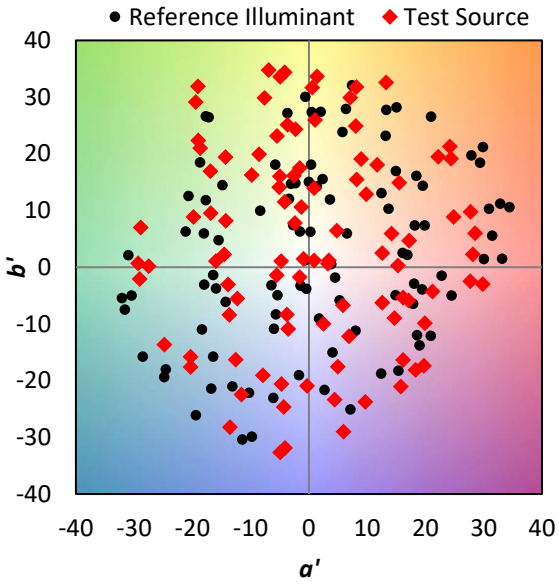
## Summary

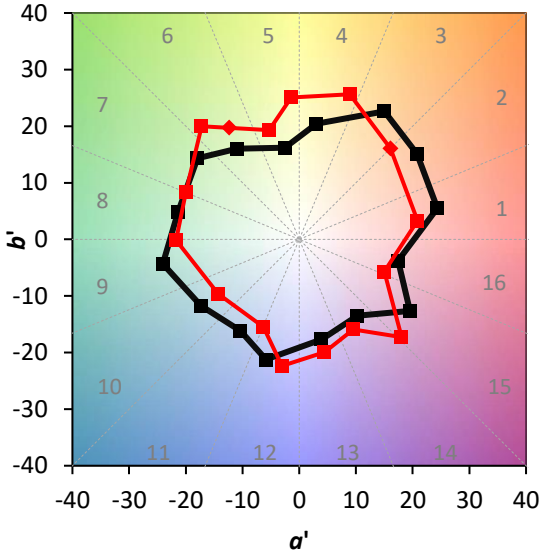
$R_f$ = 67.9
$R_g$ = 98.6
CIE $R_a$ = 71.1
$R_9$ = -27.8

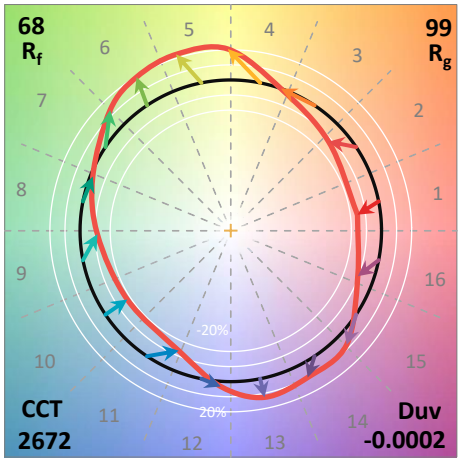
## Spectral Power Distribution Comparison

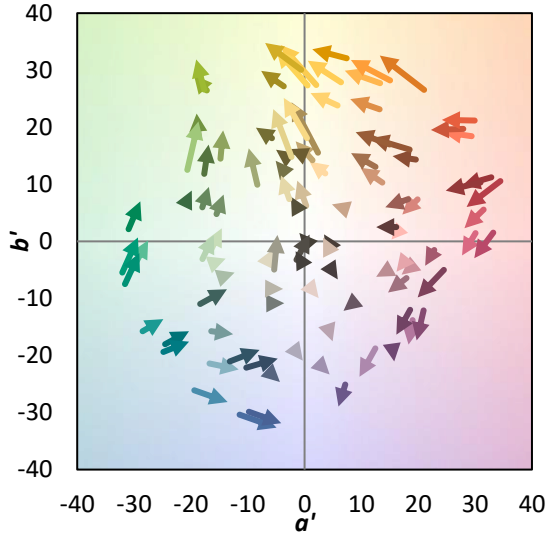



## Color Vector Graphics



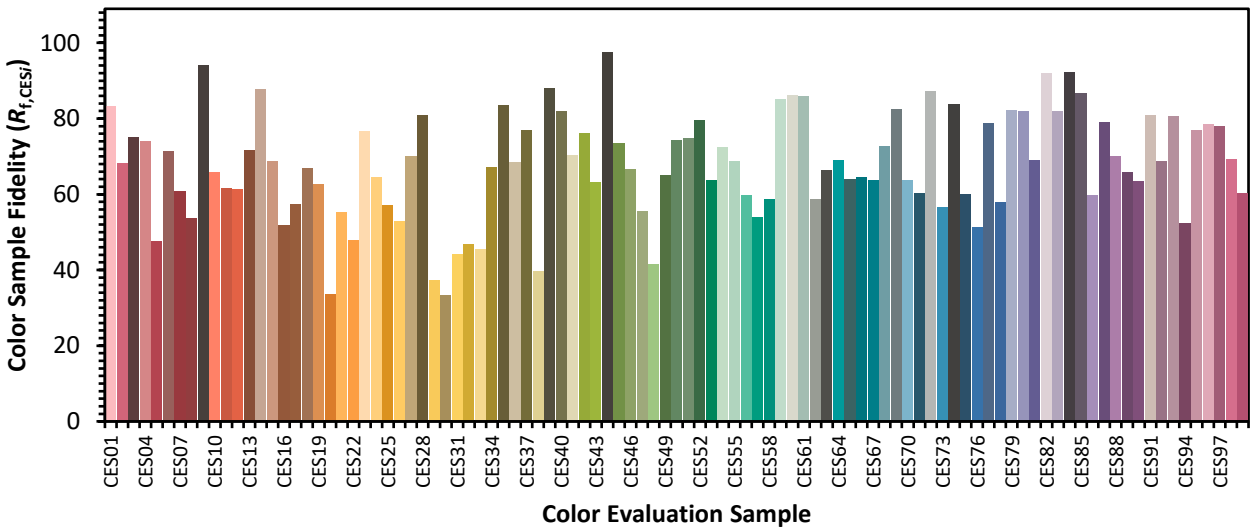



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**Individual Sample Fidelity Index ($R_{f,i}$)**

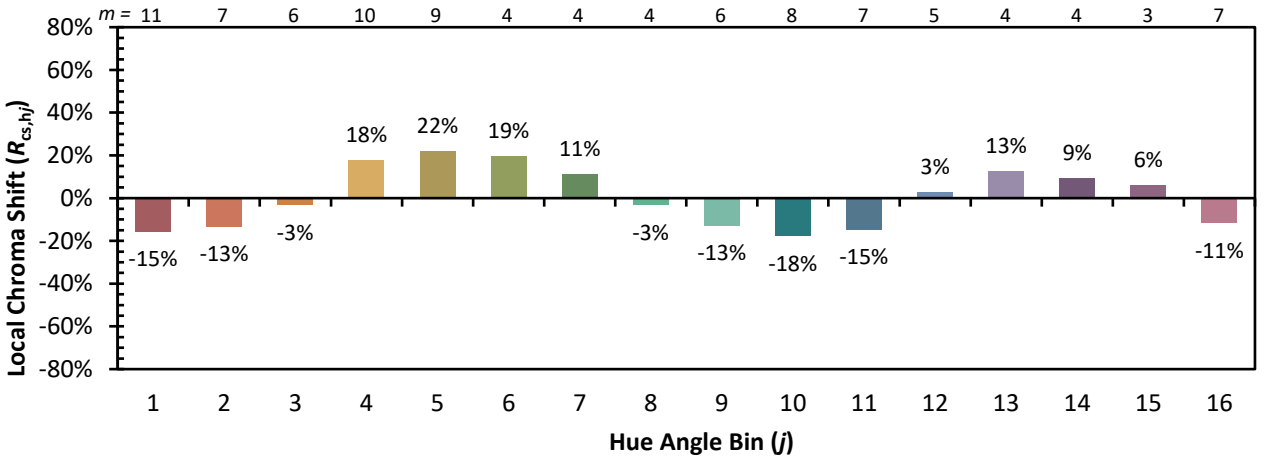
| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 53 | CES51 = 75 | CES76 = 51 |
| CES02 = 63 | CES27 = 70 | CES52 = 80 | CES77 = 79 |
| CES03 = 31 | CES28 = 81 | CES53 = 64 | CES78 = 58 |
| CES04 = 71 | CES29 = 37 | CES54 = 73 | CES79 = 82 |
| CES05 = 50 | CES30 = 33 | CES55 = 69 | CES80 = 82 |
| CES06 = 52 | CES31 = 44 | CES56 = 60 | CES81 = 69 |
| CES07 = 42 | CES32 = 47 | CES57 = 54 | CES82 = 92 |
| CES08 = 41 | CES33 = 45 | CES58 = 59 | CES83 = 82 |
| CES09 = 29 | CES34 = 67 | CES59 = 85 | CES84 = 92 |
| CES10 = 77 | CES35 = 84 | CES60 = 86 | CES85 = 87 |
| CES11 = 60 | CES36 = 68 | CES61 = 86 | CES86 = 60 |
| CES12 = 66 | CES37 = 77 | CES62 = 59 | CES87 = 79 |
| CES13 = 44 | CES38 = 40 | CES63 = 66 | CES88 = 70 |
| CES14 = 74 | CES39 = 88 | CES64 = 69 | CES89 = 66 |
| CES15 = 72 | CES40 = 82 | CES65 = 64 | CES90 = 64 |
| CES16 = 48 | CES41 = 70 | CES66 = 65 | CES91 = 81 |
| CES17 = 51 | CES42 = 76 | CES67 = 64 | CES92 = 69 |
| CES18 = 57 | CES43 = 63 | CES68 = 73 | CES93 = 81 |
| CES19 = 73 | CES44 = 97 | CES69 = 83 | CES94 = 53 |
| CES20 = 67 | CES45 = 74 | CES70 = 64 | CES95 = 77 |
| CES21 = 88 | CES46 = 67 | CES71 = 60 | CES96 = 79 |
| CES22 = 80 | CES47 = 55 | CES72 = 87 | CES97 = 78 |
| CES23 = 92 | CES48 = 42 | CES73 = 57 | CES98 = 69 |
| CES24 = 92 | CES49 = 65 | CES74 = 84 | CES99 = 60 |
| CES25 = 73 | CES50 = 74 | CES75 = 60 | |

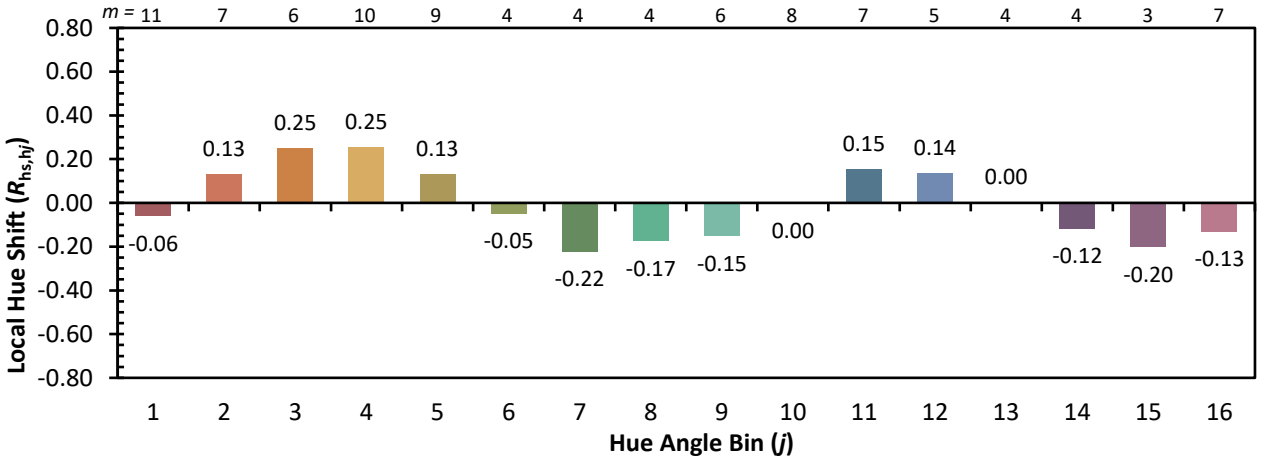


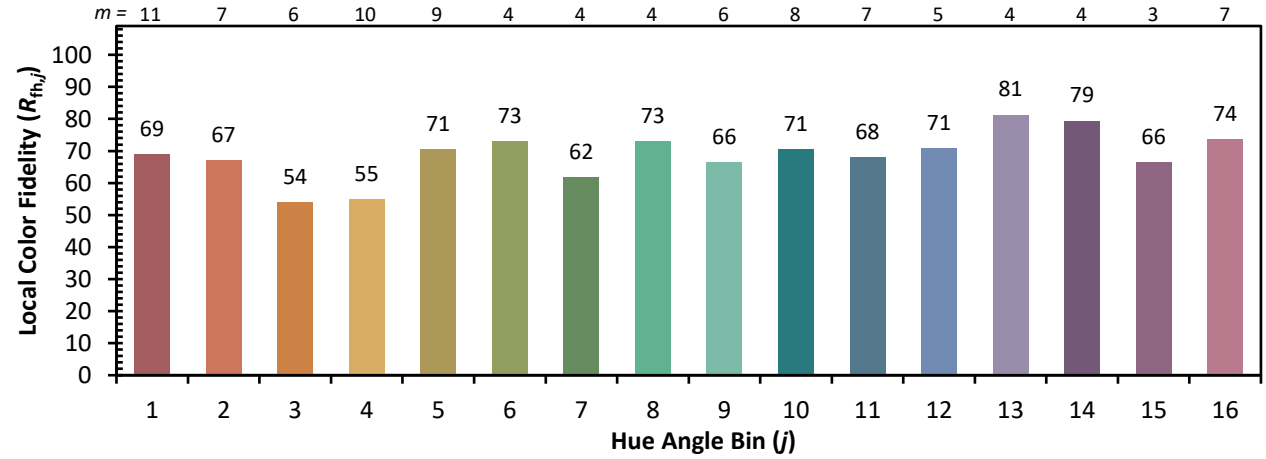
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## Color Rendition by Hue-Angle Bin



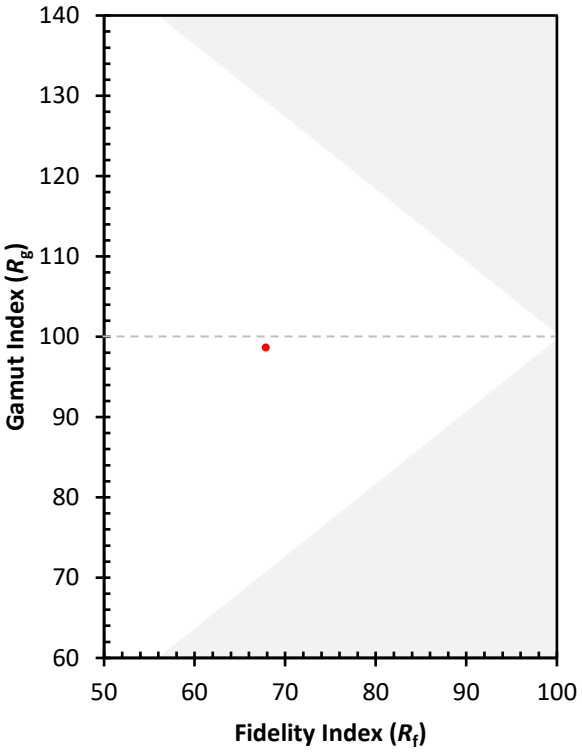



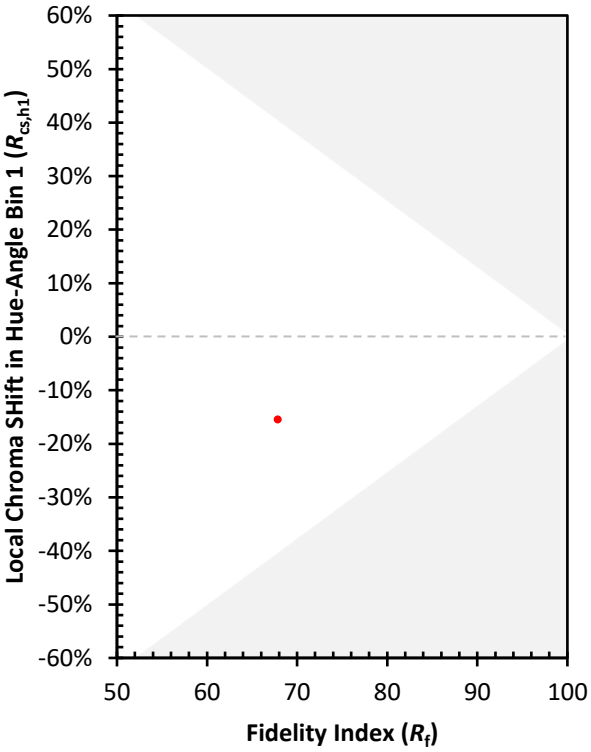



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## Measure Comparisons




(END OF REPORT)