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: P1363036

Luminaire Tested: **GSS-SB6B-727-U-SL2-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: | P1363036 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 02/18/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB6B-727-U-SL2-HSS |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 6SQUARE 219W 70CRI 2700K FIXTURE w/ TYPE II SPILL CONTROL 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: | 25295.3 lumens |
| Efficiency: | N/A |
| Efficacy: | 115.5 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1' x H: 0') |
| IES Classification: | Type II - Medium |
| BUG Rating: | B2 - U0 - G4 |

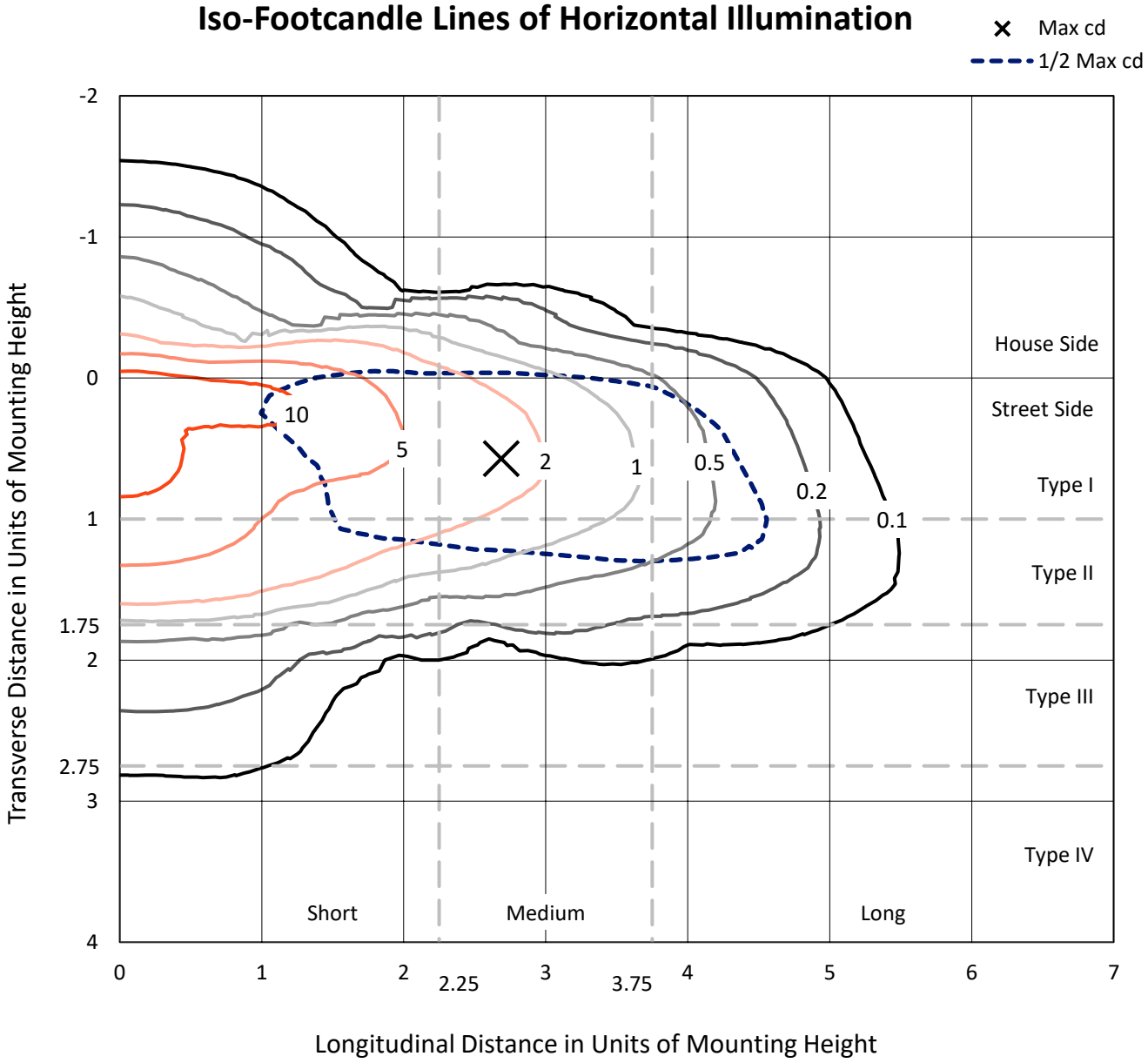
| | |
|---|---|
| Input Watts (W): | 219 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 8.7% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature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

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Scaled Data Report

REPORT NUMBER: P1363036
CATALOG NUMBER: GSS-SB6B-727-U-SL2-HSS

## Iso-Footcandle Lines of Horizontal Illumination



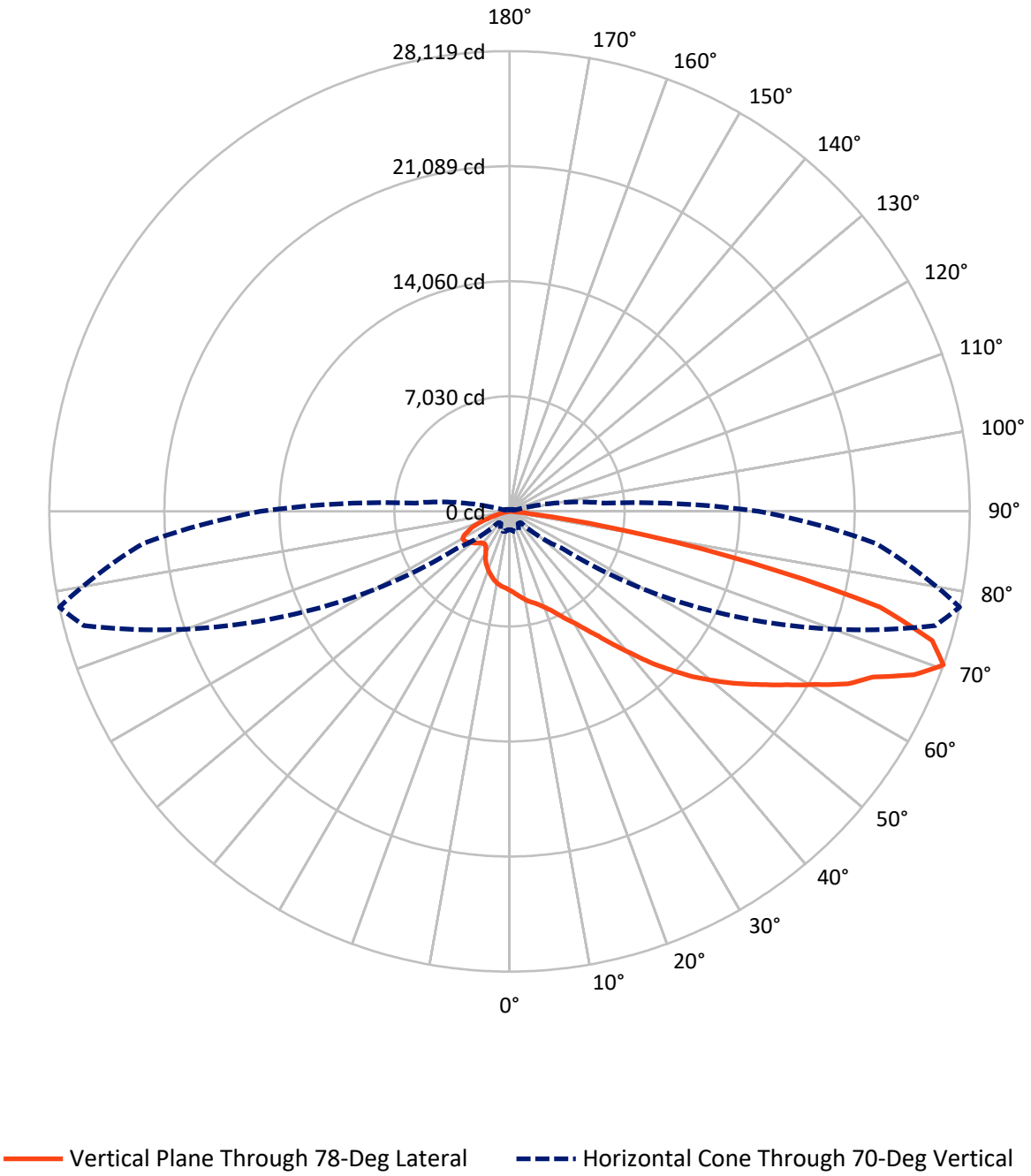

Based on 20 foot mounting height. Maximum calculated value = 14.4 fc
Type II - Medium - N/A

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REPORT NUMBER: P1363036
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## Luminous Intensity Polar Plot



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Scaled Data Report

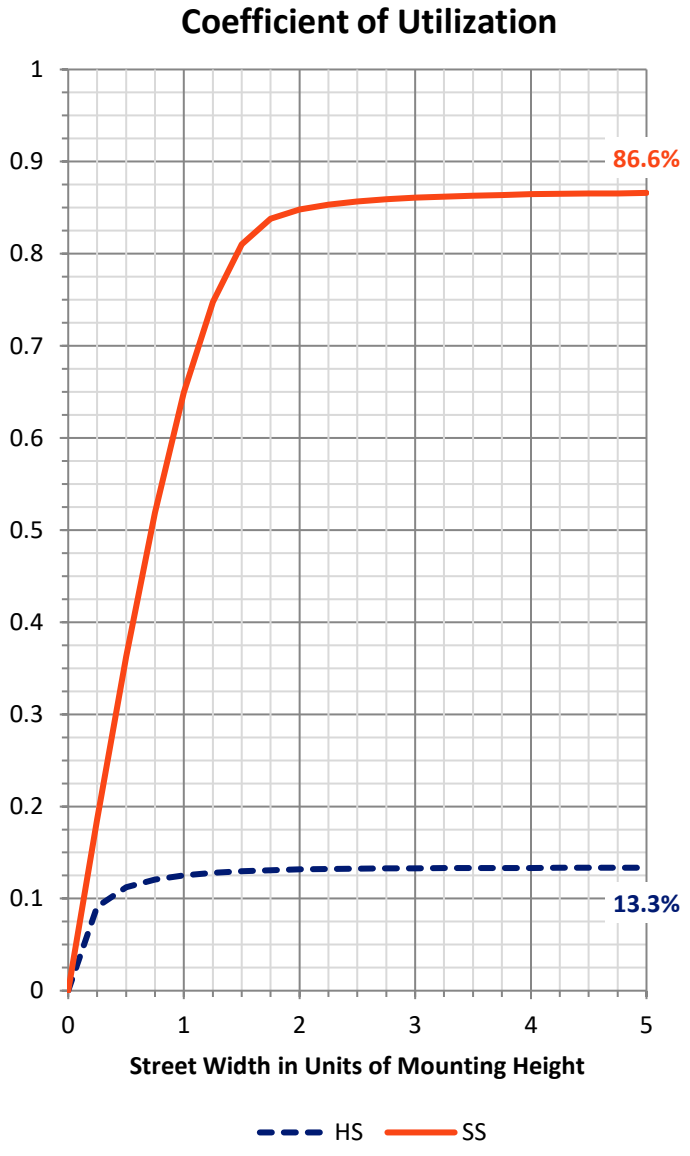
REPORT NUMBER: P1363036
CATALOG NUMBER: GSS-SB6B-727-U-SL2-HSS

**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 3402.3 | 0.0 | 3402.3 |
| | % Fixture | 13.5 | 0.0 | 13.5 |
| **Street Side** | Lumens | 21892.9 | 0.0 | 21892.9 |
| | % Fixture | 86.5 | 0.0 | 86.5 |
| **Total** | Lumens | 25295.3 | 0.0 | 25295.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 440.9 | 1.7 |
| 10°-20° | 1092.3 | 4.3 |
| 20°-30° | 1811.9 | 7.2 |
| 30°-40° | 2888.3 | 11.4 |
| 40°-50° | 4407.9 | 17.4 |
| 50°-60° | 5869.1 | 23.2 |
| 60°-70° | 5478.7 | 21.7 |
| 70°-80° | 3098.2 | 12.2 |
| 80°-90° | 207.8 | 0.8 |
| 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° | 25295.3 | 100.0 |
| 0°-180° | 25295.3 | 100.0 |



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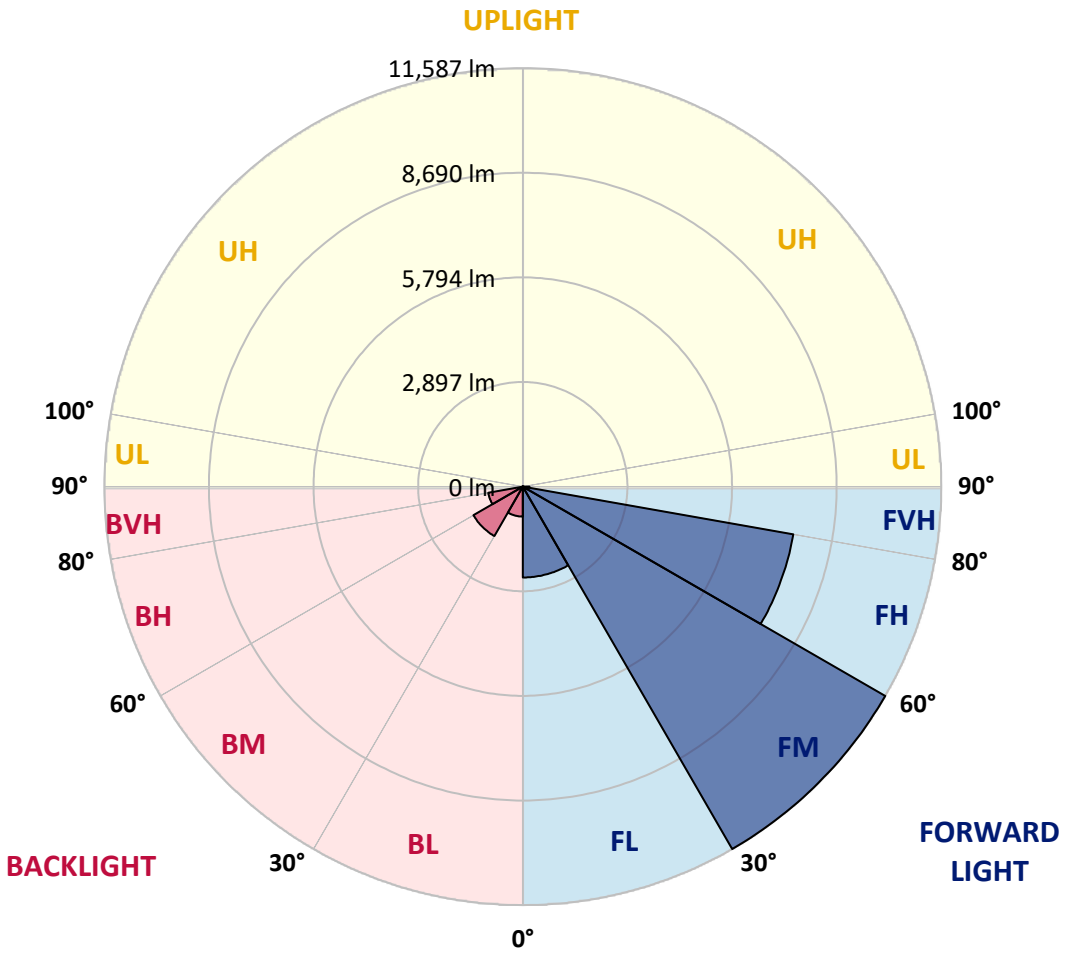
Scaled Data Report

REPORT NUMBER: P1363036
CATALOG NUMBER: GSS-SB6B-727-U-SL2-HSS

## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 2515.3 | 9.9 | | | |
| FM | (30°-60°) | 11587.3 | 45.8 | | | |
| FH | (60°-80°) | 7605.8 | 30.1 | | | G4/12000 |
| FVH | (80°-90°) | 184.5 | 0.7 | | | G2/225 |
| BL | (0°-30°) | 829.9 | 3.3 | B2/1000 | | |
| BM | (30°-60°) | 1578.1 | 6.2 | B2/2500 | | |
| BH | (60°-80°) | 971.1 | 3.8 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 23.3 | 0.1 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

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



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 78° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 4833.0 | 4833.0 | 4833.0 | 4833.0 | 4833.0 | 4833.0 | 4833.0 | 4833.0 | 4833.0 | *4833.0* | 4833.0 |
| 2.5° | 5442.4 | 5364.4 | 5364.4 | 5329.0 | 5293.6 | 5229.8 | 5151.9 | 5066.8 | 4996.0 | *4960.5* | 4903.8 |
| 5° | 5832.2 | 5810.9 | 5803.8 | 5747.1 | 5690.4 | 5598.3 | 5499.1 | 5336.1 | 5187.3 | *5137.7* | 5010.1 |
| 7.5° | 5818.0 | 5803.8 | 5832.2 | 5903.0 | 5952.6 | 5917.2 | 5832.2 | 5633.7 | 5399.9 | *5314.8* | 5123.5 |
| 10° | 5378.6 | 5336.1 | 5435.3 | 5591.2 | 5818.0 | 6051.8 | 6087.3 | 5895.9 | 5598.3 | *5499.1* | 5229.8 |
| 12.5° | 4981.8 | 4981.8 | 5031.4 | 5173.1 | 5456.6 | 5874.7 | 6200.7 | 6136.9 | 5796.7 | *5676.3* | 5321.9 |
| 15° | 4932.2 | 4896.7 | 4910.9 | 4974.7 | 5173.1 | 5584.1 | 6129.8 | 6321.1 | 5981.0 | *5818.0* | 5407.0 |
| 17.5° | 5158.9 | 5116.4 | 5081.0 | 5052.6 | 5081.0 | 5350.3 | 5910.1 | 6477.0 | 6200.7 | *6023.5* | 5520.4 |
| 20° | 5513.3 | 5513.3 | 5421.1 | 5307.8 | 5215.6 | 5265.2 | 5732.9 | 6576.2 | 6462.8 | *6271.5* | 5690.4 |
| 22.5° | 6023.5 | 5959.7 | 5903.0 | 5725.9 | 5499.1 | 5392.8 | 5655.0 | 6682.5 | 6824.3 | *6590.4* | 5924.3 |
| 25° | 6448.7 | 6469.9 | 6406.2 | 6186.5 | 5867.6 | 5633.7 | 5718.8 | 6725.0 | 7235.3 | *7001.4* | 6214.8 |
| 27.5° | 6930.6 | 6909.3 | 6852.6 | 6632.9 | 6264.4 | 5931.4 | 5895.9 | 6810.1 | 7710.1 | *7462.0* | 6555.0 |
| 30° | 7377.0 | 7377.0 | 7306.1 | 7058.1 | 6682.5 | 6321.1 | 6158.1 | 6951.8 | 8184.9 | *7958.1* | 6937.6 |
| 32.5° | 7873.1 | 7880.1 | 7738.4 | 7476.2 | 7093.5 | 6682.5 | 6491.2 | 7164.4 | 8773.0 | *8603.0* | 7455.0 |
| 35° | 8277.0 | 8291.2 | 8255.7 | 7972.3 | 7469.1 | 7058.1 | 6838.4 | 7497.5 | 9460.4 | *9361.2* | 8142.3 |
| 37.5° | 8588.8 | 8610.0 | 8539.2 | 8411.6 | 7943.9 | 7419.5 | 7206.9 | 7908.5 | 10289.5 | *10353.3* | 9035.2 |
| 40° | 8950.2 | 8950.2 | 8950.2 | 8758.9 | 8411.6 | 7816.4 | 7582.5 | 8418.7 | 11182.4 | *11380.9* | 10027.3 |
| 42.5° | 9269.1 | 9290.3 | 9325.8 | 9177.0 | 8858.1 | 8383.3 | 8043.1 | 8992.7 | 12181.6 | *12628.1* | 11253.3 |
| 45° | 9432.1 | 9474.6 | 9602.2 | 9538.4 | 9297.4 | 8836.8 | 8532.1 | 9552.5 | 13280.0 | *13832.8* | 12571.4 |
| 47.5° | 9531.3 | 9580.9 | 9751.0 | 9828.9 | 9729.7 | 9184.0 | 8992.7 | 10218.7 | 14328.8 | *15094.2* | 13924.9 |
| 50° | 9609.2 | 9680.1 | 9871.4 | 10020.3 | 10112.4 | 9474.6 | 9446.2 | 10899.0 | 15377.6 | *16277.6* | 15157.9 |
| 52.5° | 9382.5 | 9453.3 | 9814.7 | 10289.5 | 10367.5 | 9914.0 | 9921.0 | 11636.0 | 16440.6 | *17482.3* | 16298.9 |
| 55° | 8574.6 | 8624.2 | 9127.4 | 10084.0 | 10672.2 | 10424.2 | 10565.9 | 12592.6 | 17602.8 | *18679.9* | 17390.2 |
| 57.5° | 6101.4 | 6406.2 | 7299.1 | 8815.6 | 10296.6 | 11154.1 | 11600.5 | 13648.5 | 18956.3 | *19990.9* | 18495.7 |
| 60° | 2537.0 | 2756.6 | 3621.2 | 6292.8 | 8907.7 | 11253.3 | 13024.9 | 15384.7 | 20494.0 | *21479.1* | 19750.0 |
| 62.5° | 1651.1 | 1672.4 | 1757.4 | 2699.9 | 5655.0 | 9871.4 | 13570.6 | 17843.7 | 22662.5 | *23208.1* | 20437.3 |
| 65° | 1474.0 | 1502.3 | 1544.8 | 1679.5 | 2083.4 | 6661.3 | 11728.1 | 18672.8 | 24427.0 | *24391.6* | 20047.6 |
| 67.5° | 1311.0 | 1346.4 | 1424.4 | 1438.6 | 1162.2 | 2451.9 | 7880.1 | 17453.9 | 26262.4 | *26645.1* | 21110.6 |
| 70° | *1119.7* | *1133.8* | *1275.6* | *1289.7* | *914.2* | *963.8* | *3968.4* | *15150.8* | *26942.7* | *28119.1* | *22471.2* |
| 72.5° | 779.5 | 822.0 | 1077.1 | 1133.8 | 729.9 | 623.6 | 1445.6 | 11026.5 | 25043.5 | *26999.4* | 22386.1 |
| 75° | 460.6 | 481.9 | 616.5 | 772.4 | 566.9 | 439.4 | 652.0 | 6781.7 | 21549.9 | *23385.3* | 19920.0 |
| 77.5° | 333.1 | 354.3 | 446.4 | 602.3 | 361.4 | 297.6 | 403.9 | 3543.2 | 14966.6 | *15044.6* | 11246.2 |
| 80° | 106.3 | 120.5 | 276.4 | 403.9 | 262.2 | 191.3 | 248.0 | 1197.6 | 7561.3 | *7136.1* | 3436.9 |
| 82.5° | 56.7 | 56.7 | 170.1 | 212.6 | 163.0 | 120.5 | 141.7 | 496.1 | 2423.6 | *1551.9* | 545.7 |
| 85° | 28.3 | 28.3 | 70.9 | 85.0 | 63.8 | 56.7 | 70.9 | 177.2 | 255.1 | *233.9* | 155.9 |
| 87.5° | 0.0 | 0.0 | 7.1 | 7.1 | 7.1 | 14.2 | 28.3 | 49.6 | 63.8 | *63.8* | 70.9 |
| 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: P1363036
CATALOG NUMBER: GSS-SB6B-727-U-SL2-HSS

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 4833.0 | 4833.0 | 4833.0 | 4833.0 | 4833.0 | 4833.0 | 4833.0 | 4833.0 | 4833.0 | 4833.0 | 4833.0 |
| 2.5° | 4840.1 | 4783.4 | 4698.3 | 4599.1 | 4528.2 | 4429.0 | 4344.0 | 4308.6 | 4244.8 | 4230.6 | 4216.4 |
| 5° | 4889.7 | 4776.3 | 4584.9 | 4365.3 | 4173.9 | 3947.2 | 3762.9 | 3621.2 | 3522.0 | 3479.5 | 3458.2 |
| 7.5° | 4967.6 | 4783.4 | 4471.6 | 4110.1 | 3762.9 | 3422.8 | 3082.6 | 2820.4 | 2671.6 | 2529.9 | 2537.0 |
| 10° | 5010.1 | 4790.4 | 4322.7 | 3819.6 | 3302.3 | 2777.9 | 2267.7 | 1877.9 | 1672.4 | 1551.9 | 1523.6 |
| 12.5° | 5045.6 | 4755.0 | 4152.7 | 3458.2 | 2721.2 | 1970.0 | 1459.8 | 1204.7 | 1098.4 | 1084.2 | 1077.1 |
| 15° | 5066.8 | 4712.5 | 3940.1 | 3040.1 | 2062.2 | 1332.3 | 1084.2 | 1013.4 | 985.0 | 977.9 | 977.9 |
| 17.5° | 5116.4 | 4662.9 | 3720.4 | 2522.8 | 1431.5 | 1063.0 | 970.8 | 935.4 | 914.2 | 907.1 | 907.1 |
| 20° | 5201.5 | 4670.0 | 3493.6 | 1955.9 | 1112.6 | 970.8 | 900.0 | 864.5 | 836.2 | 836.2 | 836.2 |
| 22.5° | 5343.2 | 4698.3 | 3203.1 | 1466.9 | 977.9 | 885.8 | 822.0 | 779.5 | 765.3 | 772.4 | 772.4 |
| 25° | 5534.5 | 4769.2 | 2905.4 | 1133.8 | 900.0 | 800.8 | 737.0 | 701.6 | 694.5 | 701.6 | 701.6 |
| 27.5° | 5775.5 | 4847.1 | 2537.0 | 977.9 | 829.1 | 729.9 | 666.1 | 644.9 | 637.8 | 652.0 | 652.0 |
| 30° | 6037.7 | 4939.3 | 2097.6 | 900.0 | 765.3 | 673.2 | 616.5 | 595.3 | 595.3 | 616.5 | 616.5 |
| 32.5° | 6406.2 | 5088.1 | 1700.7 | 836.2 | 715.7 | 630.7 | 574.0 | 552.7 | 559.8 | 581.1 | 581.1 |
| 35° | 6902.2 | 5279.4 | 1396.0 | 793.7 | 680.3 | 595.3 | 545.7 | 517.3 | 524.4 | 531.5 | 538.6 |
| 37.5° | 7547.1 | 5541.6 | 1204.7 | 765.3 | 644.9 | 574.0 | 510.2 | 489.0 | 489.0 | 496.1 | 496.1 |
| 40° | 8269.9 | 5853.4 | 1112.6 | 744.1 | 616.5 | 538.6 | 481.9 | 453.5 | 453.5 | 467.7 | 467.7 |
| 42.5° | 9191.1 | 6186.5 | 1041.7 | 715.7 | 581.1 | 510.2 | 446.4 | 425.2 | 418.1 | 432.3 | 432.3 |
| 45° | 10254.1 | 6668.4 | 999.2 | 687.4 | 545.7 | 474.8 | 418.1 | 389.8 | 382.7 | 389.8 | 396.8 |
| 47.5° | 11331.2 | 7178.6 | 956.7 | 652.0 | 524.4 | 446.4 | 396.8 | 361.4 | 354.3 | 354.3 | 354.3 |
| 50° | 12344.6 | 7688.8 | 928.3 | 609.4 | 503.1 | 418.1 | 368.5 | 340.1 | 326.0 | 326.0 | 326.0 |
| 52.5° | 13251.7 | 8163.6 | 914.2 | 574.0 | 481.9 | 396.8 | 354.3 | 318.9 | 297.6 | 297.6 | 297.6 |
| 55° | 14116.2 | 8624.2 | 892.9 | 531.5 | 460.6 | 368.5 | 333.1 | 297.6 | 276.4 | 269.3 | 269.3 |
| 57.5° | 14987.9 | 9049.4 | 836.2 | 489.0 | 418.1 | 347.2 | 311.8 | 276.4 | 255.1 | 240.9 | 240.9 |
| 60° | 15703.6 | 9311.6 | 751.2 | 439.4 | 368.5 | 318.9 | 290.5 | 255.1 | 226.8 | 205.5 | 205.5 |
| 62.5° | 15753.2 | 9042.3 | 623.6 | 389.8 | 326.0 | 290.5 | 262.2 | 226.8 | 191.3 | 163.0 | 163.0 |
| 65° | 14909.9 | 8106.9 | 496.1 | 326.0 | 290.5 | 255.1 | 219.7 | 191.3 | 155.9 | 127.6 | 120.5 |
| 67.5° | 15101.2 | 7355.7 | 382.7 | 276.4 | 255.1 | 205.5 | 177.2 | 155.9 | 127.6 | 106.3 | 106.3 |
| 70° | *15214.6* | *5789.6* | *304.7* | *226.8* | *212.6* | *163.0* | *141.7* | *134.6* | *106.3* | *85.0* | *85.0* |
| 72.5° | 14222.5 | 3585.7 | 248.0 | 191.3 | 163.0 | 113.4 | 113.4 | 106.3 | 85.0 | 63.8 | 56.7 |
| 75° | 12543.0 | 2140.1 | 191.3 | 148.8 | 113.4 | 85.0 | 85.0 | 78.0 | 56.7 | 42.5 | 42.5 |
| 77.5° | 7582.5 | 1126.7 | 148.8 | 113.4 | 78.0 | 63.8 | 56.7 | 49.6 | 35.4 | 28.3 | 21.3 |
| 80° | 2345.6 | 396.8 | 113.4 | 78.0 | 56.7 | 49.6 | 35.4 | 21.3 | 14.2 | 14.2 | 7.1 |
| 82.5° | 326.0 | 141.7 | 85.0 | 63.8 | 42.5 | 28.3 | 21.3 | 14.2 | 7.1 | 7.1 | 7.1 |
| 85° | 113.4 | 78.0 | 56.7 | 42.5 | 28.3 | 21.3 | 14.2 | 7.1 | 7.1 | 0.0 | 0.0 |
| 87.5° | 63.8 | 56.7 | 42.5 | 28.3 | 21.3 | 14.2 | 14.2 | 7.1 | 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: SP1-2407-184-3

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

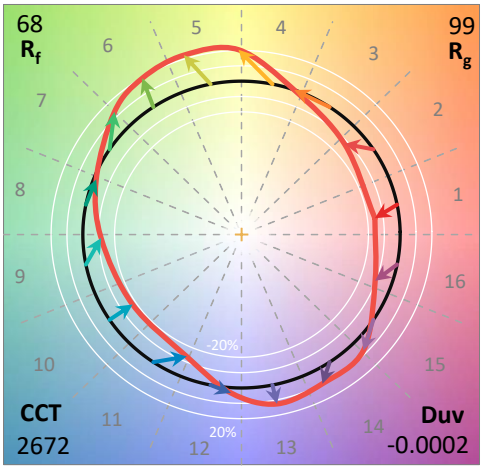
## Test Information

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

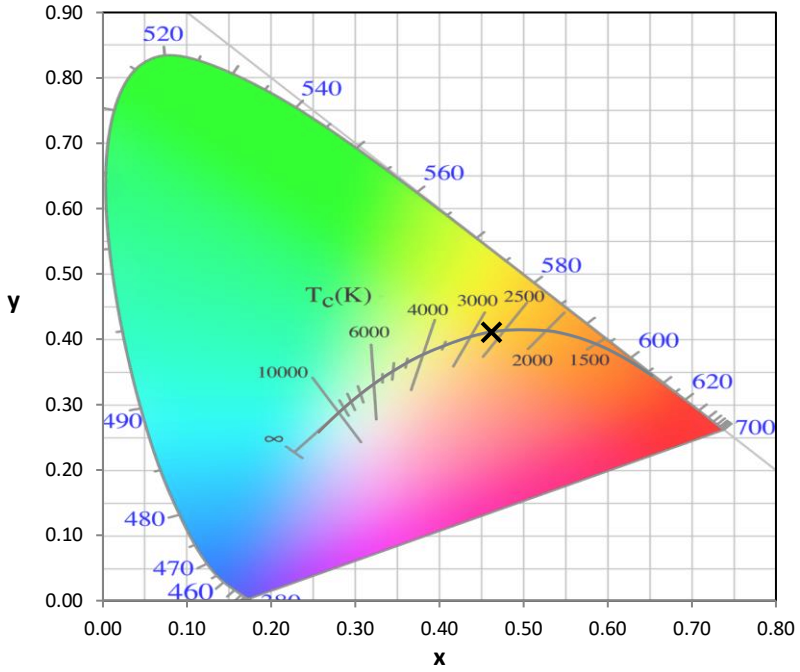
| | |
|---|---|
| Stabilization Time: | 21M |
| Operation Time: | 1H 21M |
| Sphere Temperature (°C): | 25.2 |

REPORT NUMBER: SP1-2407-184-3

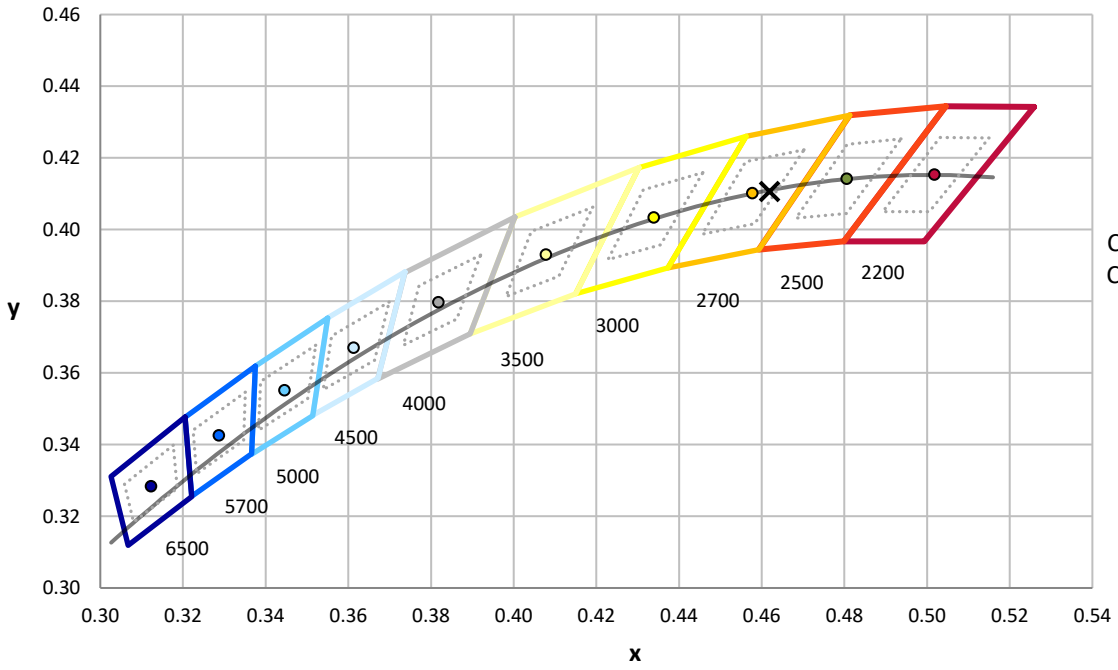
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC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

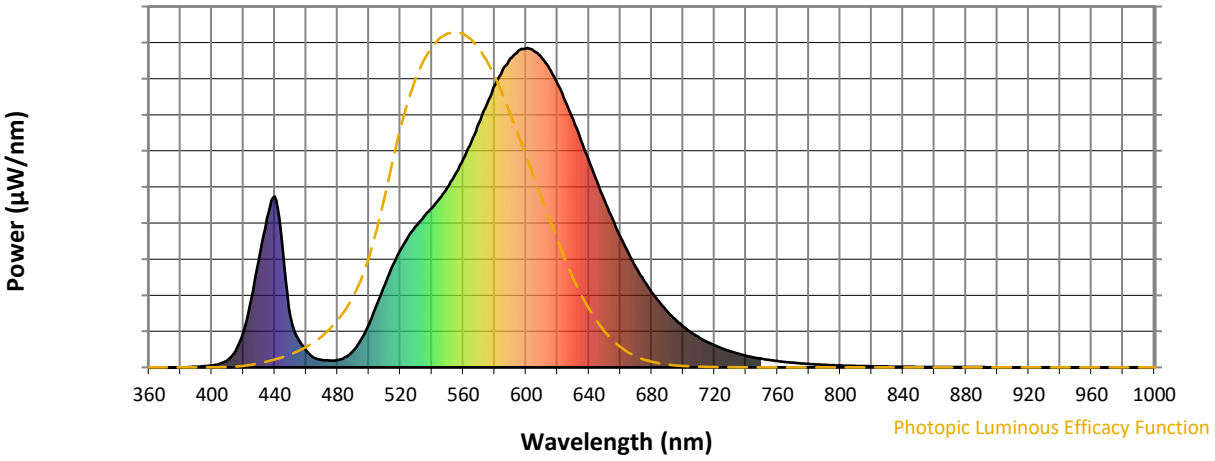



CCT = 2672K
CIE x = 0.4619
CIE y = 0.4106
Duv = -0.0002

Point lies inside the ANSI 2700K 4-step quadrangle

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## Photopic Flux vs. Wavelength

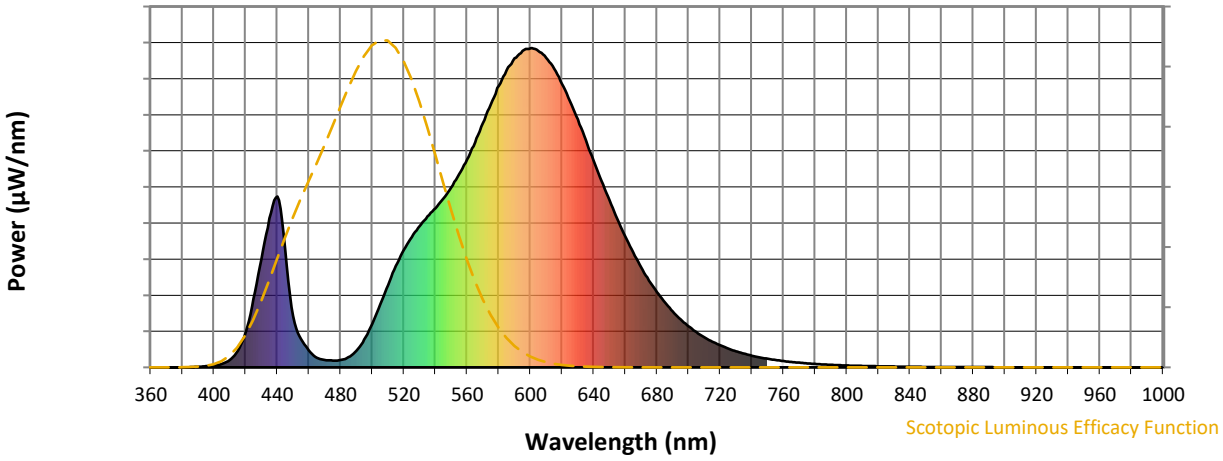



## Photopic Lumens: NR

| 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

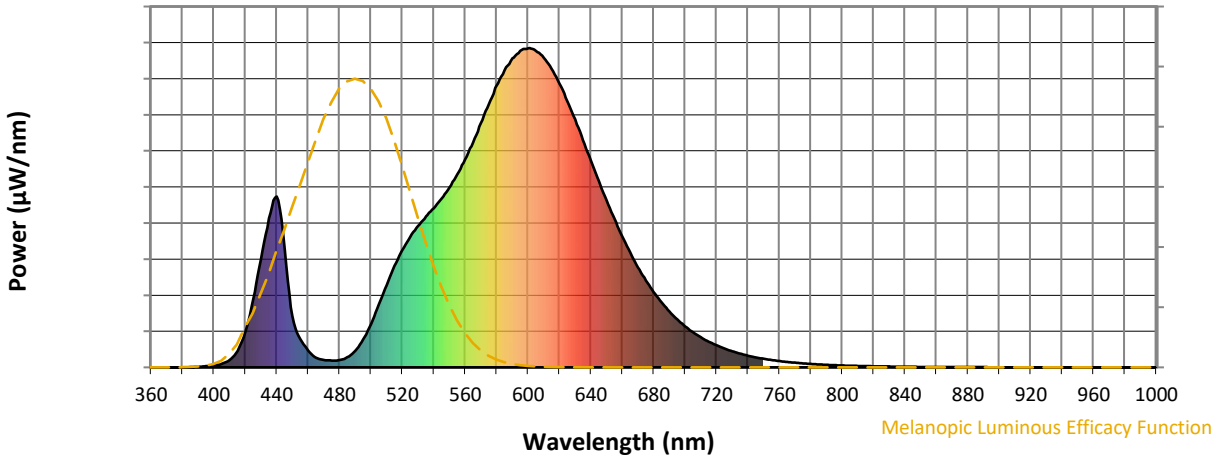



**Scotopic Lumens: NR** **S/P: 1.02**

| 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 | | | |

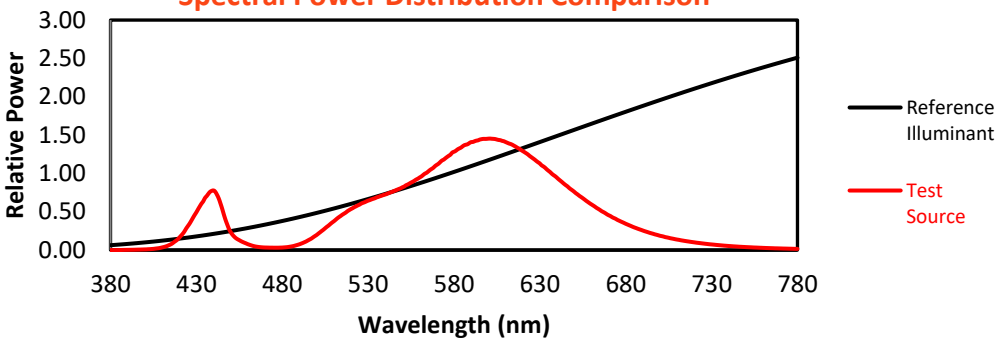
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# TM-30-18

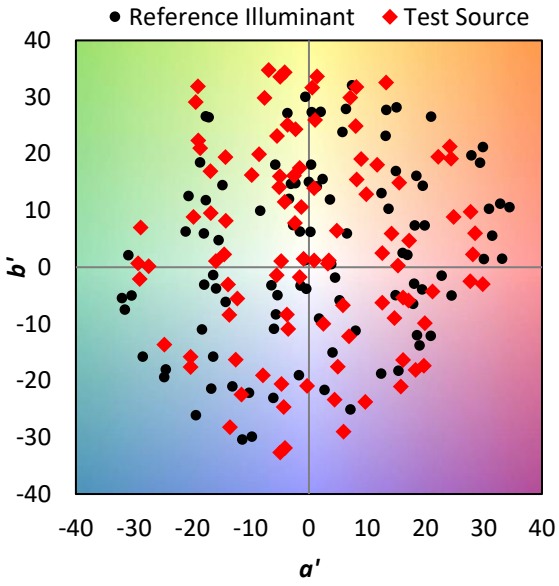
## Summary

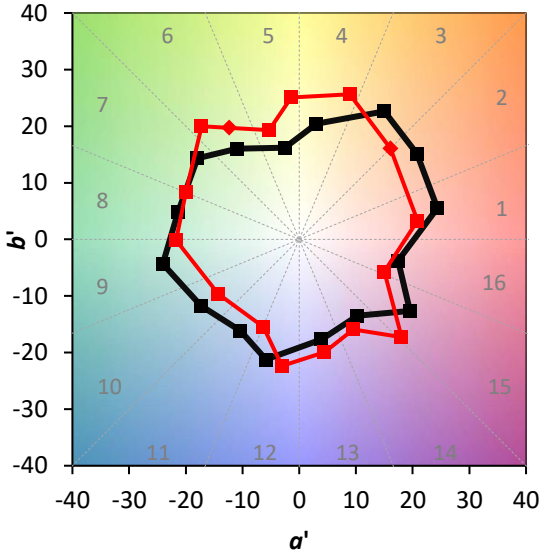
$R_f$ = 67.9
$R_g$ = 98.6
CIE $R_a$ = 71.1
$R_9$ = -27.8

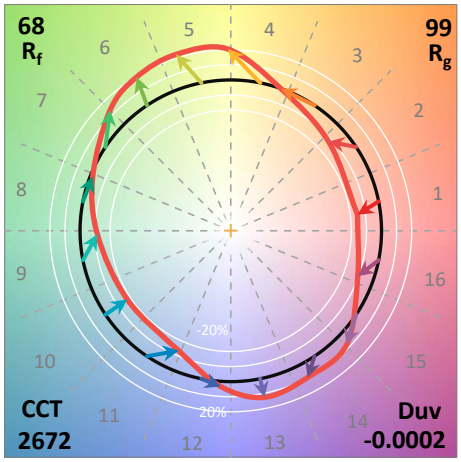
## Spectral Power Distribution Comparison

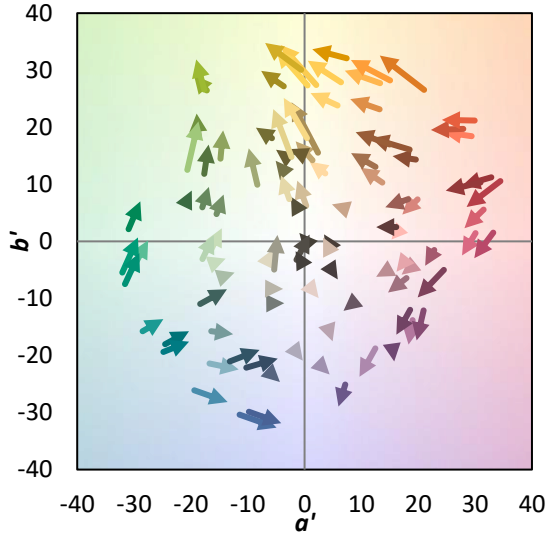



## Color Vector Graphics



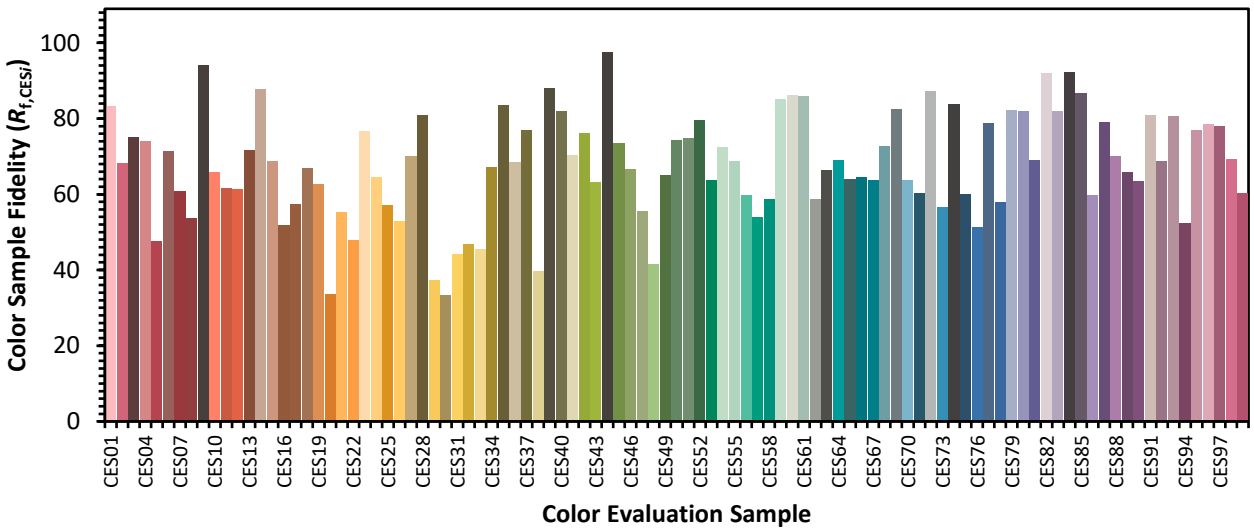



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# TM-30-18

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

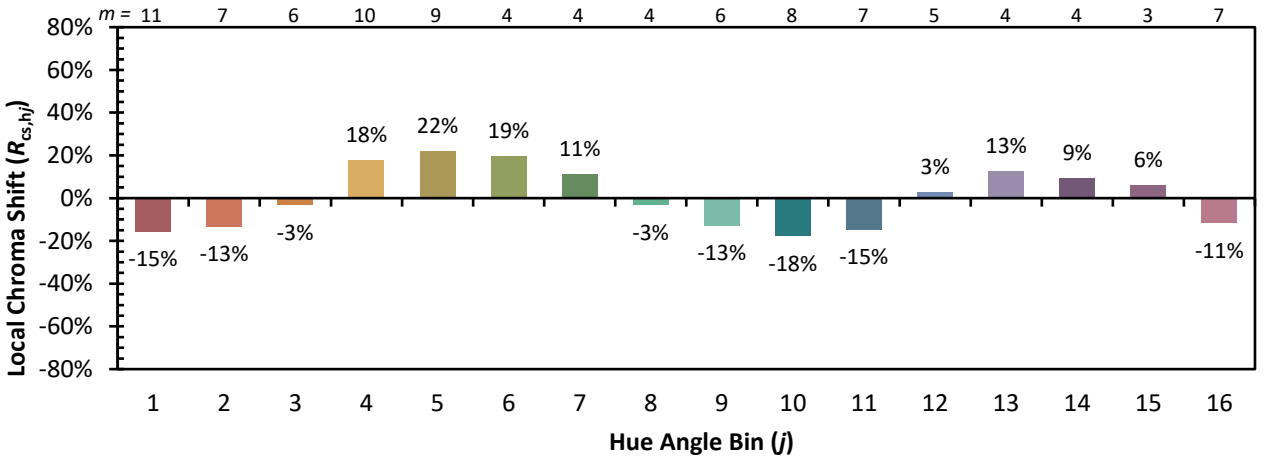
| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 53 | CES51 = 75 | CES76 = 51 |
| CES02 = 63 | CES27 = 70 | CES52 = 80 | CES77 = 79 |
| CES03 = 31 | CES28 = 81 | CES53 = 64 | CES78 = 58 |
| CES04 = 71 | CES29 = 37 | CES54 = 73 | CES79 = 82 |
| CES05 = 50 | CES30 = 33 | CES55 = 69 | CES80 = 82 |
| CES06 = 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 | |

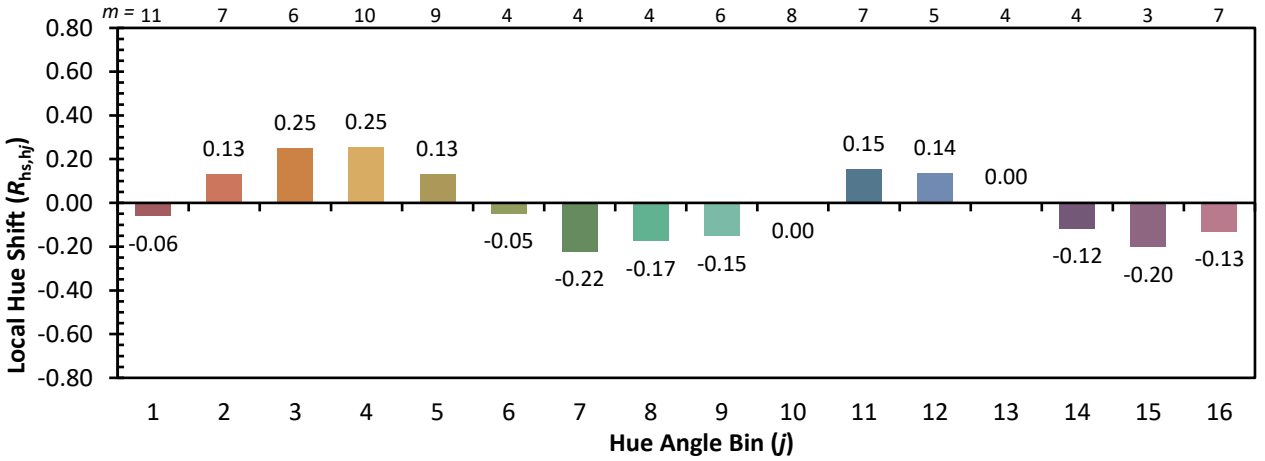


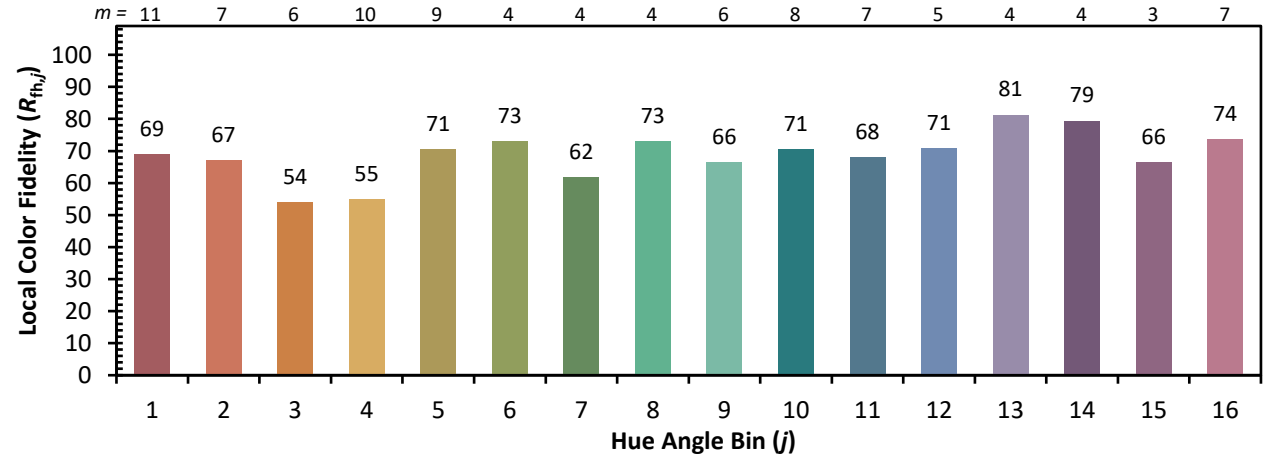
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## Color Rendition by Hue-Angle Bin



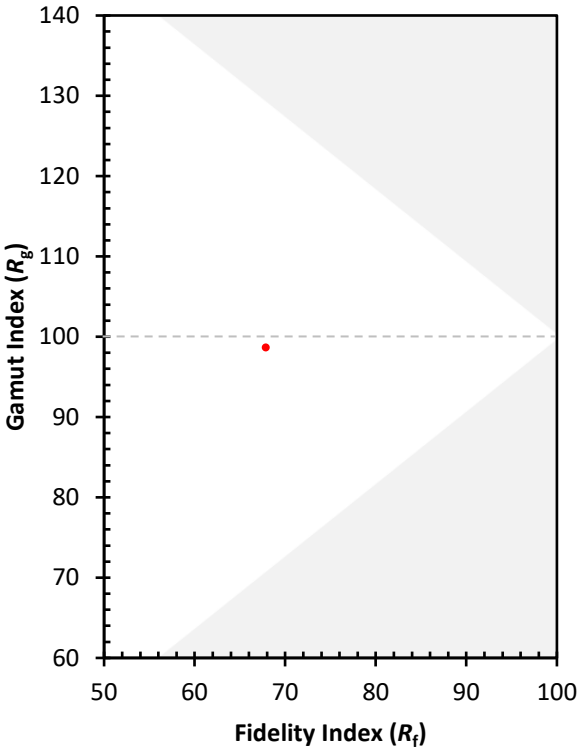



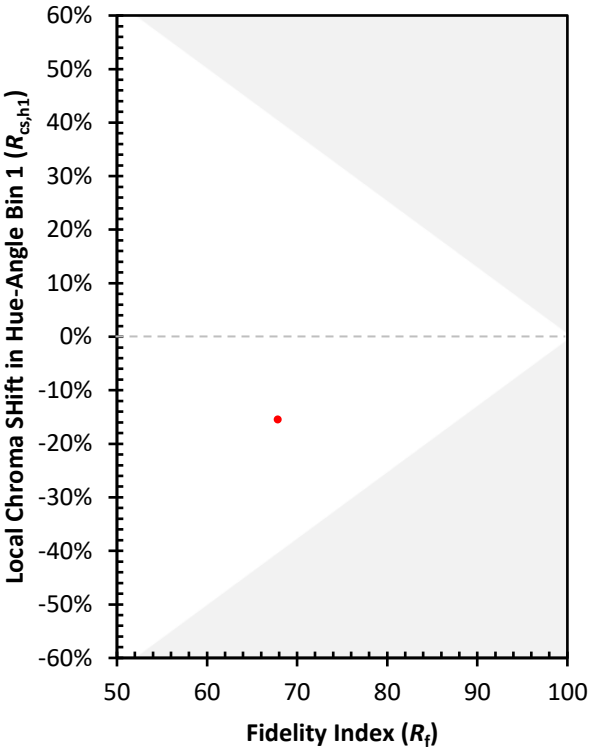



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## Measure Comparisons




(END OF REPORT)