Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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Peachtree City, GA 30269

Scaled data based on original data using

LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P1501034

Luminaire Tested: GSS-SB6B-730-U-T3LG

Issue Date: 07/20/2026

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-2024 |
| Report Number: | P1501034 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 7/20/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB6B-730-U-T3LG |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 6SQUARE 219W 70CRI 3000K FIXTURE w/ TYPE III LOW GLARE DISTRIBUTION FIXTURE |
| Light Source: | (156) 3000K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 33601.8 lumens |
| Efficiency: | N/A |
| Efficacy: | 153.4 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1' x H: 0') |
| IES Classification: | Type III - Short |
| BUG Rating: | B3 - U0 - G3 |

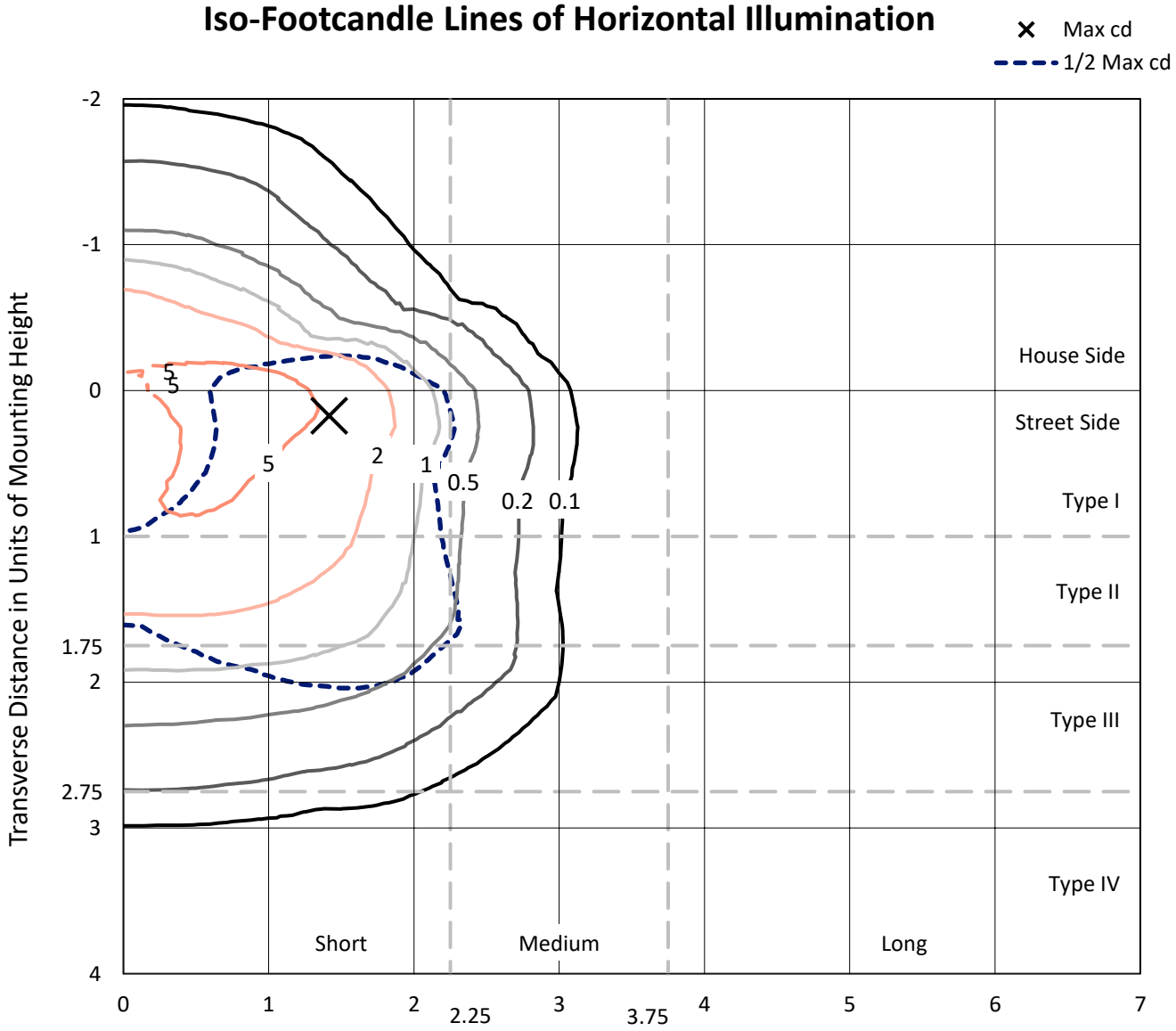
| | |
|---|---|
| Input Watts (W): | 219 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 8.7% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature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

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Scaled Data Report

REPORT NUMBER: P1501034
CATALOG NUMBER: GSS-SB6B-730-U-T3LG

## Iso-Footcandle Lines of Horizontal Illumination



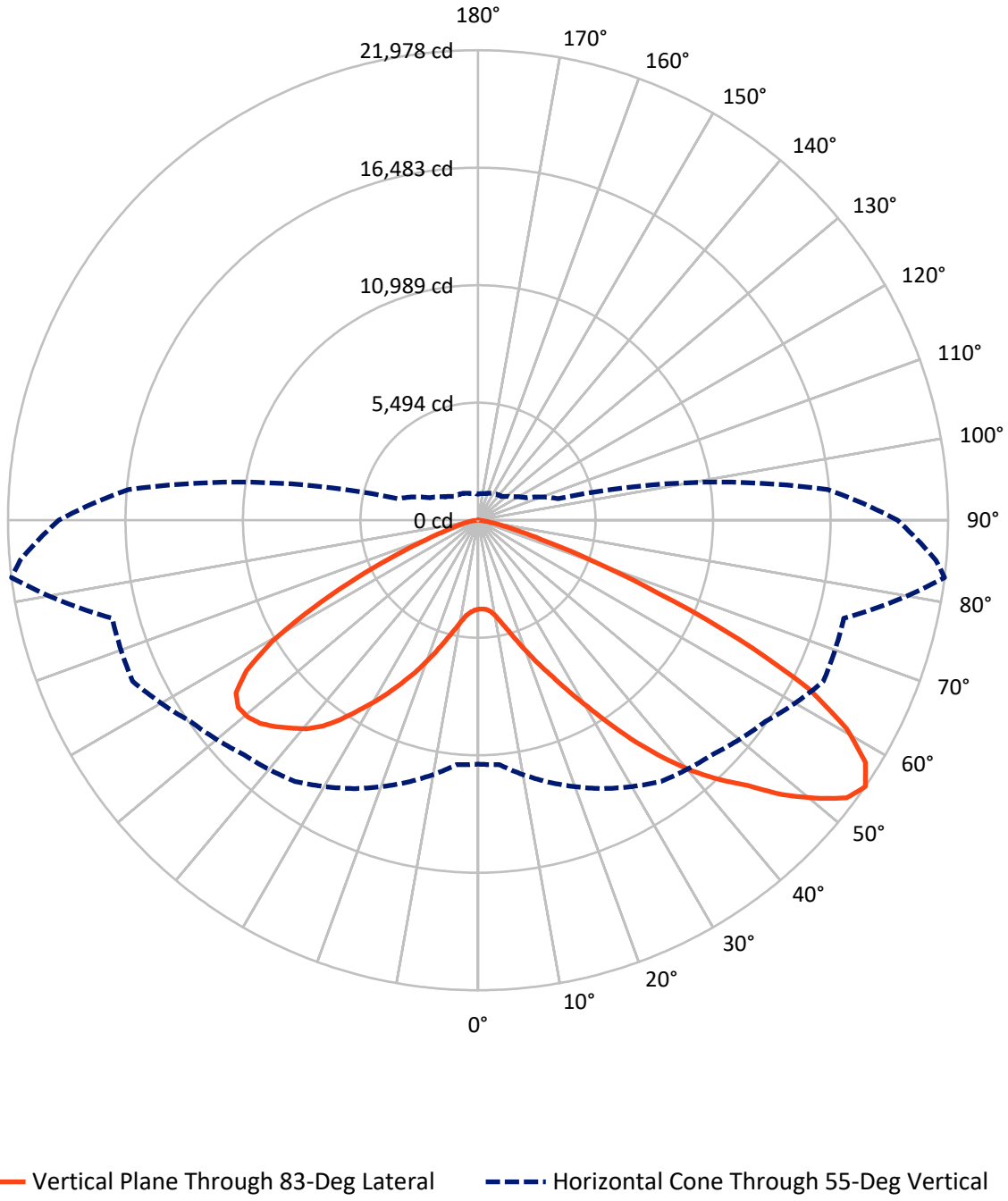

Based on 30 foot mounting height. Maximum calculated value = 7.8 fc
Type III - Short - N/A

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## Luminous Intensity Polar Plot



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Scaled Data Report

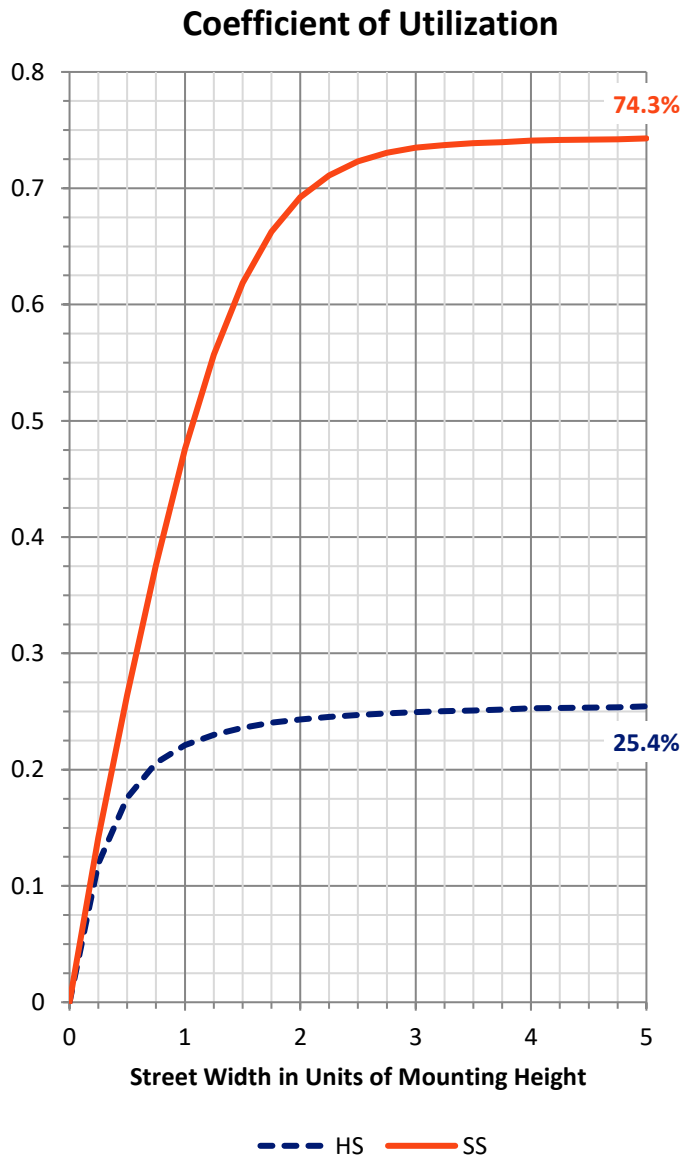
REPORT NUMBER: P1501034
CATALOG NUMBER: GSS-SB6B-730-U-T3LG

**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 8622.9 | 0.0 | 8622.9 |
| | % Fixture | 25.7 | 0.0 | 25.7 |
| **Street Side** | Lumens | 24978.8 | 0.0 | 24978.8 |
| | % Fixture | 74.3 | 0.0 | 74.3 |
| **Total** | Lumens | 33601.8 | 0.0 | 33601.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 401.9 | 1.2 |
| 10°-20° | 1309.3 | 3.9 |
| 20°-30° | 2621.2 | 7.8 |
| 30°-40° | 4663.4 | 13.9 |
| 40°-50° | 7027.6 | 20.9 |
| 50°-60° | 8563.6 | 25.5 |
| 60°-70° | 6924.9 | 20.6 |
| 70°-80° | 1896.7 | 5.6 |
| 80°-90° | 193.2 | 0.6 |
| 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° | 33601.8 | 100.0 |
| 0°-180° | 33601.8 | 100.0 |



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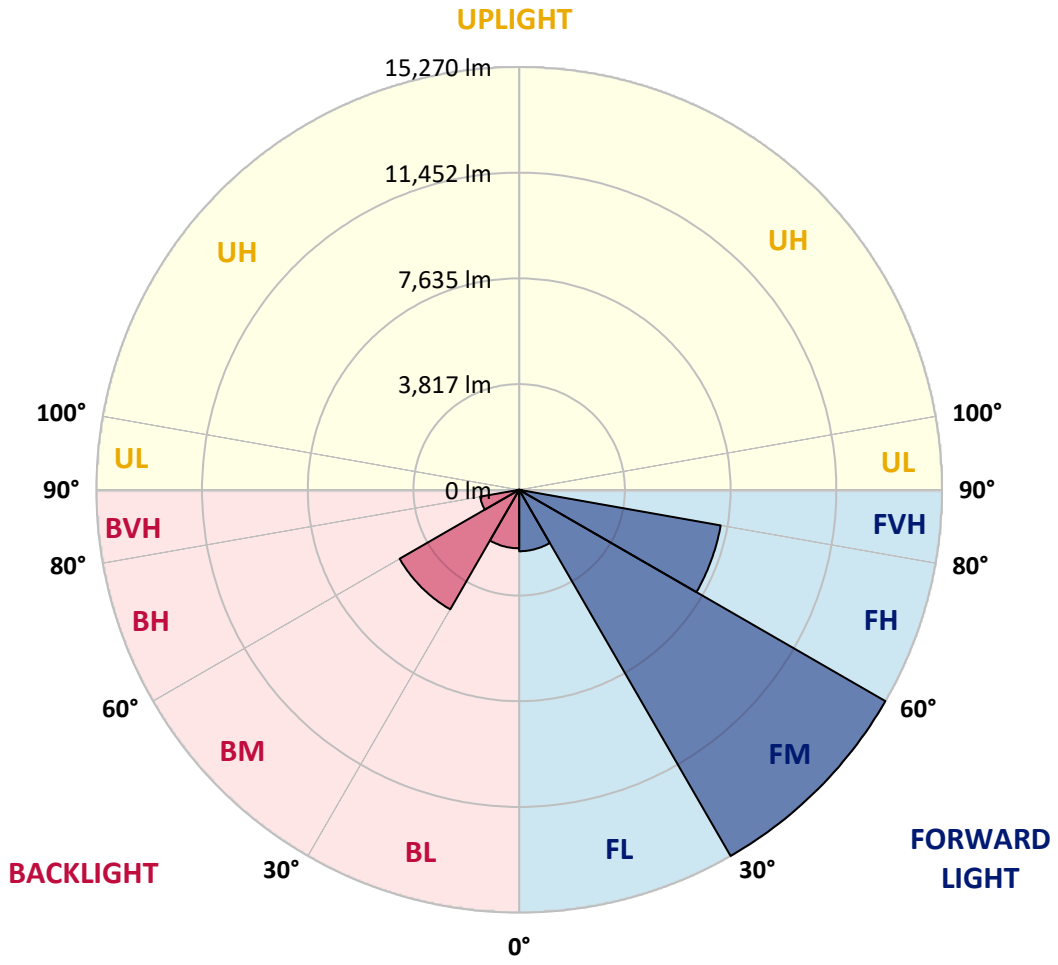
Scaled Data Report

REPORT NUMBER: P1501034
CATALOG NUMBER: GSS-SB6B-730-U-T3LG

## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 2218.6 | 6.6 | | | |
| FM | (30°-60°) | 15269.7 | 45.4 | | | |
| FH | (60°-80°) | 7389.9 | 22.0 | | | G3/7500 |
| FVH | (80°-90°) | 100.6 | 0.3 | | | G2/225 |
| BL | (0°-30°) | 2113.7 | 6.3 | B3/2500 | | |
| BM | (30°-60°) | 4985.0 | 14.8 | B3/5000 | | |
| BH | (60°-80°) | 1431.7 | 4.3 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 92.6 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B3-U0-G3**
Type III Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 83° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 4159.5 | 4159.5 | 4159.5 | 4159.5 | 4159.5 | 4159.5 | 4159.5 | 4159.5 | 4159.5 | *4159.5* | 4159.5 |
| 2.5° | 4040.1 | 4032.6 | 4025.1 | 4017.7 | 4032.6 | 4055.0 | 4077.4 | 4092.3 | 4129.7 | *4159.5* | 4144.6 |
| 5° | 3718.9 | 3704.0 | 3718.9 | 3778.7 | 3831.0 | 3920.6 | 4010.2 | 4069.9 | 4152.1 | *4189.4* | 4204.3 |
| 7.5° | 3435.2 | 3420.2 | 3435.2 | 3509.8 | 3599.5 | 3741.3 | 3928.0 | 4077.4 | 4226.8 | *4316.4* | 4331.3 |
| 10° | 3435.2 | 3442.6 | 3442.6 | 3472.5 | 3517.3 | 3659.2 | 3883.2 | 4167.0 | 4428.4 | *4555.3* | 4585.2 |
| 12.5° | 3547.2 | 3547.2 | 3547.2 | 3584.5 | 3614.4 | 3726.4 | 3980.3 | 4331.3 | 4749.5 | *4936.2* | 4958.6 |
| 15° | 3696.5 | 3689.1 | 3711.5 | 3733.9 | 3786.2 | 3898.2 | 4152.1 | 4570.3 | 5100.5 | *5384.3* | 5414.1 |
| 17.5° | 3905.6 | 3890.7 | 3913.1 | 3965.4 | 4040.1 | 4167.0 | 4420.9 | 4898.8 | 5585.9 | *5944.3* | 5989.1 |
| 20° | 4137.1 | 4129.7 | 4174.5 | 4256.6 | 4361.2 | 4518.0 | 4809.2 | 5294.6 | 6138.5 | *6594.0* | 6676.2 |
| 22.5° | 4413.4 | 4398.5 | 4480.7 | 4630.0 | 4771.9 | 4951.1 | 5302.1 | 5809.9 | 6773.3 | *7318.4* | 7400.5 |
| 25° | 4727.1 | 4727.1 | 4839.1 | 5018.3 | 5234.9 | 5556.0 | 5907.0 | 6467.1 | 7520.0 | *8102.5* | 8229.5 |
| 27.5° | 5242.4 | 5279.7 | 5324.5 | 5511.2 | 5817.4 | 6250.5 | 6623.9 | 7258.7 | 8334.0 | *9065.9* | 9110.7 |
| 30° | 6078.8 | 6063.8 | 6138.5 | 6265.4 | 6519.4 | 6974.9 | 7535.0 | 8214.5 | 9364.6 | *10133.7* | 10245.8 |
| 32.5° | 6833.0 | 6855.4 | 6959.9 | 7198.9 | 7505.1 | 7893.4 | 8565.5 | 9401.9 | 10484.7 | *11373.4* | 11425.7 |
| 35° | 7594.7 | 7609.6 | 7811.3 | 8169.7 | 8625.3 | 9058.4 | 9790.2 | 10611.7 | 11702.0 | *12754.9* | 12896.8 |
| 37.5° | 8662.6 | 8647.7 | 8849.3 | 9155.5 | 9767.8 | 10439.9 | 11029.9 | 11814.0 | 12866.9 | *14099.1* | 14263.4 |
| 40° | 9461.6 | 9543.8 | 9924.6 | 10313.0 | 10888.0 | 11582.5 | 12082.8 | 12822.1 | 13822.8 | *15413.5* | 15562.8 |
| 42.5° | 10283.1 | 10350.3 | 10858.1 | 11440.6 | 12045.5 | 12516.0 | 12904.3 | 13591.3 | 14584.5 | *16578.4* | 16660.6 |
| 45° | 10962.7 | 11052.3 | 11634.8 | 12374.1 | 13001.4 | 13479.3 | 13613.7 | 14255.9 | 15361.2 | *17698.6* | 17825.5 |
| 47.5° | 11395.8 | 11492.9 | 12179.9 | 13046.2 | 13688.4 | 14196.2 | 14151.4 | 15055.0 | 16190.1 | *19184.7* | 19139.9 |
| 50° | 11694.5 | 11754.3 | 12501.0 | 13427.0 | 14263.4 | 14599.5 | 14793.6 | 15958.6 | 17041.4 | *20431.8* | 20267.5 |
| 52.5° | 11911.1 | 12008.2 | 12687.7 | 13703.3 | 14584.5 | 15025.1 | 15547.9 | 17004.1 | 17631.4 | *21574.4* | 21208.4 |
| 55° | *11403.3* | *11477.9* | *12672.8* | *13845.2* | *14913.1* | *15495.6* | *16406.7* | *17818.1* | *17706.1* | *21977.6* | *21484.7* |
| 57.5° | 10880.5 | 10940.3 | 12045.5 | 13807.9 | 15271.6 | 16078.1 | 17384.9 | 17922.6 | 17041.4 | *21357.8* | 20738.0 |
| 60° | 10223.4 | 10268.2 | 11373.4 | 13412.1 | 15279.0 | 16533.6 | 17885.3 | 17160.9 | 15809.2 | *19797.0* | 19207.1 |
| 62.5° | 9013.6 | 9013.6 | 10230.8 | 12344.2 | 14905.6 | 16765.1 | 17750.9 | 15719.6 | 14158.9 | *17340.1* | 16526.1 |
| 65° | 7818.7 | 7766.5 | 8587.9 | 10439.9 | 13912.4 | 16705.4 | 16742.7 | 13897.5 | 11597.4 | *13374.8* | 12740.0 |
| 67.5° | 6519.4 | 6526.8 | 7012.2 | 8475.9 | 11268.8 | 15458.3 | 14614.4 | 10738.6 | 8080.1 | *9006.1* | 8677.5 |
| 70° | 4413.4 | 4525.5 | 5018.3 | 6153.4 | 8498.3 | 10955.2 | 11634.8 | 7273.6 | 5040.7 | *5593.4* | 5324.5 |
| 72.5° | 1680.2 | 1702.6 | 2277.7 | 3226.1 | 5369.3 | 6586.6 | 8117.5 | 4069.9 | 2949.8 | *3084.2* | 3099.1 |
| 75° | 709.4 | 739.3 | 970.8 | 1359.1 | 2382.2 | 3592.0 | 4271.6 | 2061.1 | 1792.3 | *1844.5* | 1829.6 |
| 77.5° | 477.9 | 492.9 | 590.0 | 731.8 | 1075.4 | 1441.3 | 1784.8 | 1165.0 | 1097.8 | *1030.6* | 1000.7 |
| 80° | 358.5 | 358.5 | 425.7 | 492.9 | 604.9 | 739.3 | 776.6 | 590.0 | 657.2 | *545.1* | 530.2 |
| 82.5° | 231.5 | 246.4 | 268.8 | 291.2 | 343.5 | 365.9 | 313.6 | 321.1 | 380.9 | *283.8* | 268.8 |
| 85° | 112.0 | 119.5 | 127.0 | 134.4 | 134.4 | 127.0 | 112.0 | 141.9 | 194.2 | *119.5* | 112.0 |
| 87.5° | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | 7.5 | 7.5 | 7.5 | *7.5* | 7.5 |
| 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: P1501034
CATALOG NUMBER: GSS-SB6B-730-U-T3LG

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 4159.5 | 4159.5 | 4159.5 | 4159.5 | 4159.5 | 4159.5 | 4159.5 | 4159.5 | 4159.5 | 4159.5 | 4159.5 |
| 2.5° | 4167.0 | 4196.9 | 4219.3 | 4234.2 | 4271.6 | 4264.1 | 4286.5 | 4301.4 | 4316.4 | 4338.8 | 4308.9 |
| 5° | 4241.7 | 4294.0 | 4353.7 | 4398.5 | 4443.3 | 4465.7 | 4473.2 | 4488.1 | 4495.6 | 4510.5 | 4503.1 |
| 7.5° | 4406.0 | 4465.7 | 4555.3 | 4600.1 | 4637.5 | 4637.5 | 4615.1 | 4607.6 | 4585.2 | 4600.1 | 4600.1 |
| 10° | 4682.3 | 4771.9 | 4869.0 | 4876.4 | 4831.6 | 4779.4 | 4697.2 | 4652.4 | 4592.7 | 4577.7 | 4562.8 |
| 12.5° | 5085.5 | 5205.0 | 5279.7 | 5227.4 | 5070.6 | 4876.4 | 4659.9 | 4458.3 | 4301.4 | 4234.2 | 4219.3 |
| 15° | 5541.1 | 5690.4 | 5705.4 | 5556.0 | 5272.2 | 4801.8 | 4346.2 | 4122.2 | 4040.1 | 4040.1 | 4032.6 |
| 17.5° | 6168.4 | 6272.9 | 6213.2 | 5854.7 | 5220.0 | 4450.8 | 4122.2 | 4084.9 | 4107.3 | 4137.1 | 4137.1 |
| 20° | 6825.5 | 6945.0 | 6698.6 | 6063.8 | 4898.8 | 4241.7 | 4144.6 | 4174.5 | 4226.8 | 4256.6 | 4249.2 |
| 22.5° | 7609.6 | 7669.4 | 7191.5 | 6071.3 | 4555.3 | 4189.4 | 4189.4 | 4226.8 | 4264.1 | 4308.9 | 4308.9 |
| 25° | 8416.2 | 8393.8 | 7647.0 | 5795.0 | 4361.2 | 4174.5 | 4159.5 | 4189.4 | 4204.3 | 4226.8 | 4219.3 |
| 27.5° | 9319.8 | 9200.3 | 7998.0 | 5354.4 | 4301.4 | 4129.7 | 4055.0 | 4025.1 | 4040.1 | 4062.5 | 4069.9 |
| 30° | 10357.8 | 10074.0 | 8281.7 | 5078.1 | 4279.0 | 4025.1 | 3845.9 | 3763.7 | 3748.8 | 3778.7 | 3778.7 |
| 32.5° | 11560.1 | 10947.7 | 8453.5 | 5040.7 | 4256.6 | 3838.4 | 3599.5 | 3442.6 | 3412.8 | 3427.7 | 3465.0 |
| 35° | 12792.3 | 12000.7 | 8408.7 | 5137.8 | 4264.1 | 3689.1 | 3338.1 | 3129.0 | 3099.1 | 3114.1 | 3151.4 |
| 37.5° | 14084.2 | 13001.4 | 8236.9 | 5287.2 | 4204.3 | 3487.4 | 3099.1 | 2845.2 | 2800.4 | 2830.3 | 2845.2 |
| 40° | 15084.9 | 13845.2 | 7811.3 | 5346.9 | 4099.8 | 3233.5 | 2822.8 | 2606.2 | 2486.8 | 2479.3 | 2516.6 |
| 42.5° | 16010.9 | 14509.9 | 7348.3 | 5249.8 | 3883.2 | 2964.7 | 2539.0 | 2322.5 | 2135.8 | 1993.9 | 1993.9 |
| 45° | 16936.9 | 15182.0 | 6877.8 | 4973.5 | 3524.8 | 2680.9 | 2240.3 | 1949.1 | 1732.5 | 1628.0 | 1635.4 |
| 47.5° | 17862.9 | 15831.6 | 6317.7 | 4555.3 | 3166.3 | 2382.2 | 1919.2 | 1687.7 | 1538.4 | 1456.2 | 1456.2 |
| 50° | 18721.7 | 16302.1 | 5600.8 | 3890.7 | 2755.6 | 2083.5 | 1695.2 | 1560.8 | 1448.7 | 1374.1 | 1359.1 |
| 52.5° | 19475.9 | 16615.8 | 4630.0 | 3084.2 | 2307.5 | 1747.5 | 1575.7 | 1471.1 | 1389.0 | 1306.9 | 1284.5 |
| 55° | *19610.3* | *16406.7* | *3875.8* | *2479.3* | *1904.3* | *1568.2* | *1486.1* | *1396.5* | *1284.5* | *1247.1* | *1224.7* |
| 57.5° | 18781.4 | 15301.4 | 3270.9 | 2091.0 | 1628.0 | 1441.3 | 1411.4 | 1306.9 | 1217.2 | 1179.9 | 1157.5 |
| 60° | 17370.0 | 13292.6 | 2703.3 | 1792.3 | 1448.7 | 1321.8 | 1359.1 | 1254.6 | 1112.7 | 1090.3 | 1067.9 |
| 62.5° | 14831.0 | 10372.7 | 2158.2 | 1508.5 | 1314.3 | 1232.2 | 1269.5 | 1120.2 | 1000.7 | 970.8 | 963.3 |
| 65° | 11530.2 | 7423.0 | 1814.7 | 1329.3 | 1209.8 | 1142.6 | 1127.6 | 993.2 | 903.6 | 881.2 | 881.2 |
| 67.5° | 8050.2 | 4719.6 | 1516.0 | 1217.2 | 1075.4 | 1030.6 | 1023.1 | 933.5 | 873.7 | 851.3 | 851.3 |
| 70° | 4928.7 | 2860.2 | 1277.0 | 1112.7 | 948.4 | 866.3 | 918.5 | 903.6 | 814.0 | 791.6 | 784.1 |
| 72.5° | 2561.4 | 1710.1 | 1120.2 | 1023.1 | 799.1 | 739.3 | 821.5 | 828.9 | 754.2 | 784.1 | 776.6 |
| 75° | 1486.1 | 1187.4 | 978.3 | 903.6 | 634.8 | 619.8 | 716.9 | 791.6 | 731.8 | 754.2 | 739.3 |
| 77.5° | 851.3 | 761.7 | 754.2 | 739.3 | 500.3 | 507.8 | 642.2 | 709.4 | 627.3 | 649.7 | 597.4 |
| 80° | 470.5 | 492.9 | 522.7 | 463.0 | 351.0 | 395.8 | 515.3 | 567.5 | 477.9 | 470.5 | 433.1 |
| 82.5° | 246.4 | 306.2 | 351.0 | 298.7 | 201.6 | 239.0 | 351.0 | 351.0 | 306.2 | 291.2 | 283.8 |
| 85° | 112.0 | 127.0 | 164.3 | 149.4 | 74.7 | 89.6 | 164.3 | 179.2 | 156.8 | 141.9 | 134.4 |
| 87.5° | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 14.9 | 22.4 | 7.5 | 7.5 | 7.5 |
| 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: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

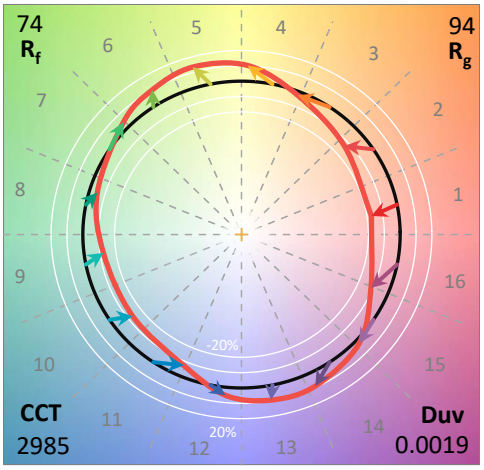
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2407-184-4 |
| 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-730-U-5WQ** |
| Description: | GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3000K CCT 26 LEDS |

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 2985 |
| CIE u': | 0.2504 |
| CIE v': | 0.5243 |
| Duv: | 0.0019 |
| CIE x: | 0.4408 |
| CIE y: | 0.4101 |
| CIE z: | 0.1491 |
| Peak Wavelength (nm): | 595 |
| Dominant Wavelength (nm): | 582 |
| Purity: | 55.41818 |
| Rf: | 73.8 |
| Rg: | 94.4 |

| | |
|---|---|
| CRI (Ra): | 70.8 |
| R1: | 66.3 |
| R2: | 80.6 |
| R3: | 94.5 |
| R4: | 68.2 |
| R5: | 66.5 |
| R6: | 74.7 |
| R7: | 76.2 |
| R8: | 39.6 |
| R9: | -43.2 |
| R10: | 57.6 |
| R11: | 64.8 |
| R12: | 53.5 |
| R13: | 68.7 |
| R14: | 97.0 |
| R15: | 56.4 |




## Test Conditions

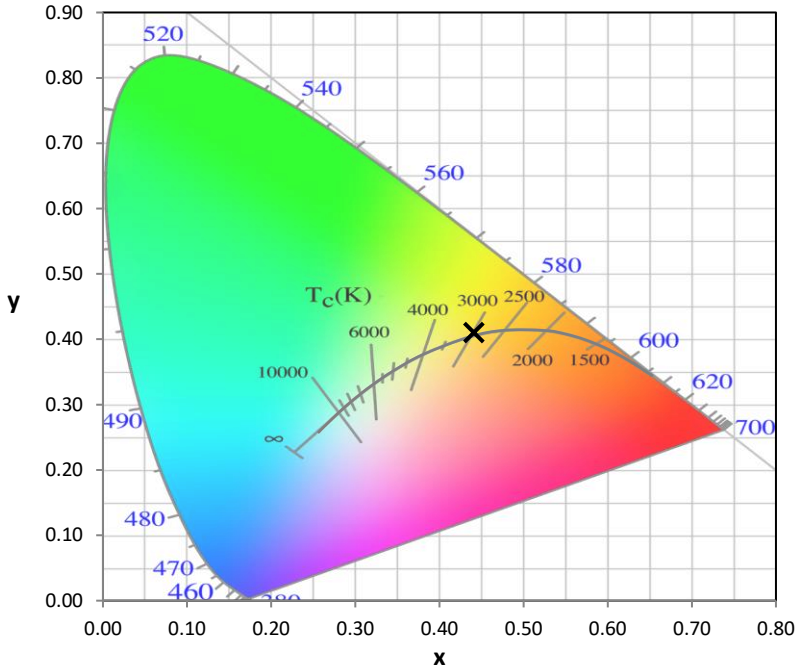
| | |
|---|---|
| Stabilization Time: | 36M |
| Operation Time: | 1H 36M |
| Sphere Temperature (°C): | 25.2 |

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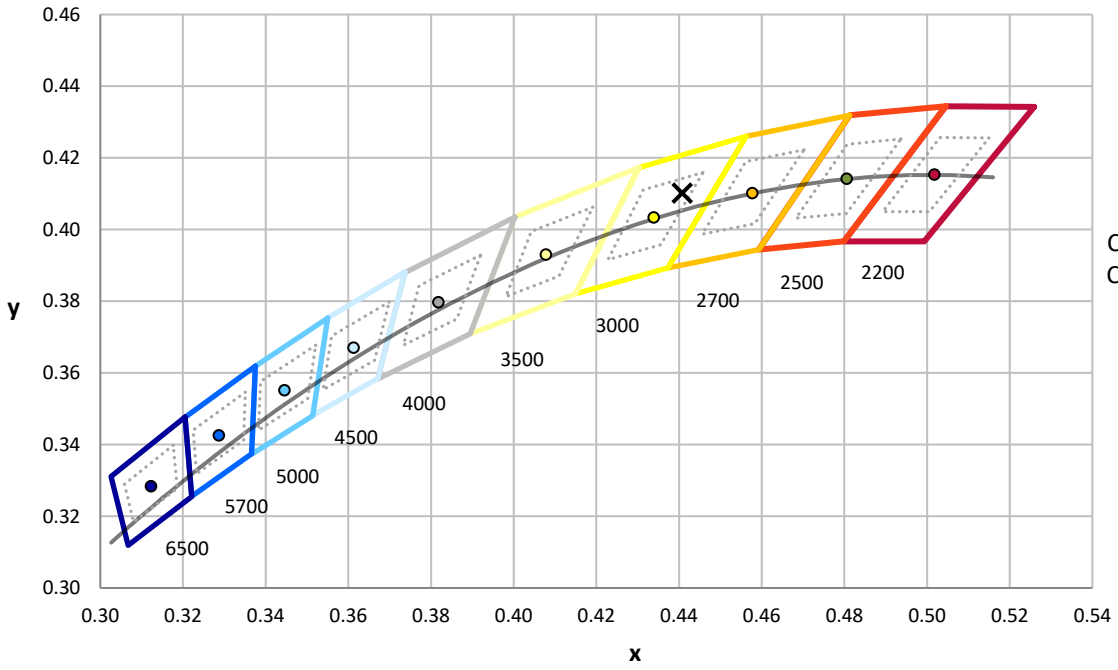
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC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

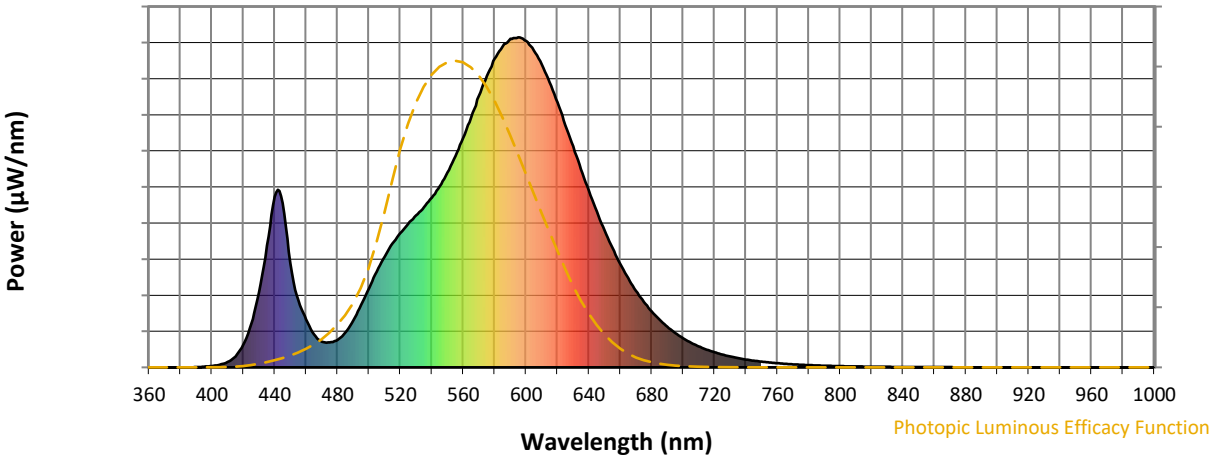



CCT = 2985K
CIE x = 0.4408
CIE y = 0.4101
Duv = 0.0019

Point lies inside the ANSI 3000K 4-step quadrangle

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## Photopic Flux vs. Wavelength

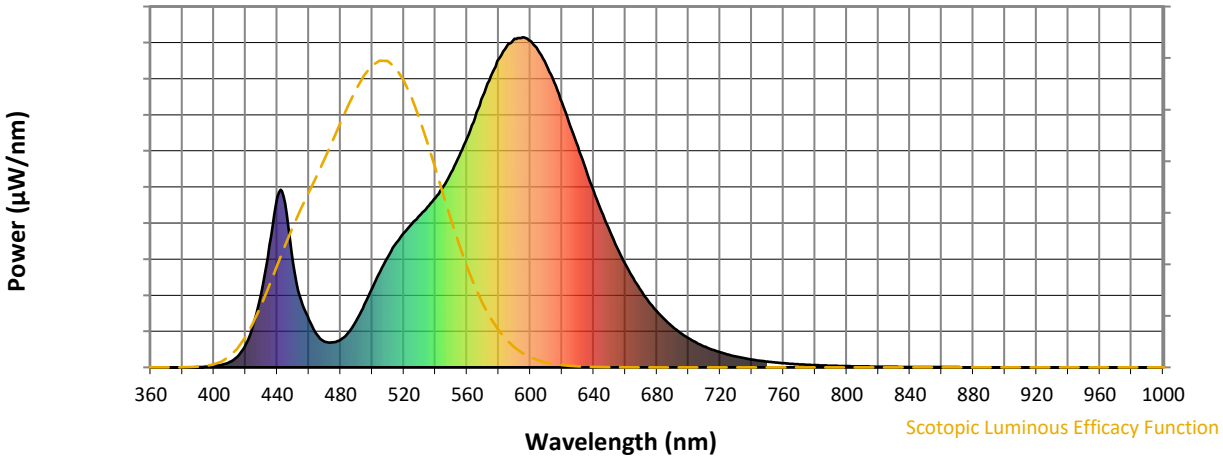



## Photopic Lumens: NR

| 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 | 142 | NR | 620 | 803 | NR | 750 | 17 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 189 | NR | 625 | 734 | NR | 755 | 15 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 240 | NR | 630 | 670 | NR | 760 | 13 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 290 | NR | 635 | 600 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 335 | NR | 640 | 535 | NR | 770 | 9 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 375 | NR | 645 | 473 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 1 | NR | 520 | 408 | NR | 650 | 415 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 434 | NR | 655 | 362 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 461 | NR | 660 | 313 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 8 | NR | 535 | 486 | NR | 665 | 271 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 16 | NR | 540 | 514 | NR | 670 | 231 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 33 | NR | 545 | 549 | NR | 675 | 198 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 69 | NR | 550 | 591 | NR | 680 | 169 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 131 | NR | 555 | 640 | NR | 685 | 144 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 227 | NR | 560 | 695 | NR | 690 | 123 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 369 | NR | 565 | 757 | NR | 695 | 104 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 517 | NR | 570 | 822 | NR | 700 | 88 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 498 | NR | 575 | 882 | NR | 705 | 75 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 315 | NR | 580 | 935 | NR | 710 | 63 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 204 | NR | 585 | 972 | NR | 715 | 54 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 145 | NR | 590 | 996 | NR | 720 | 46 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 100 | NR | 595 | 1000 | NR | 725 | 39 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 78 | NR | 600 | 989 | NR | 730 | 33 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 76 | NR | 605 | 960 | NR | 735 | 28 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 83 | NR | 610 | 918 | NR | 740 | 24 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 105 | NR | 615 | 864 | NR | 745 | 20 | NR | 875 | 1 | NR | | | |

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## Scotopic Flux vs. Wavelength

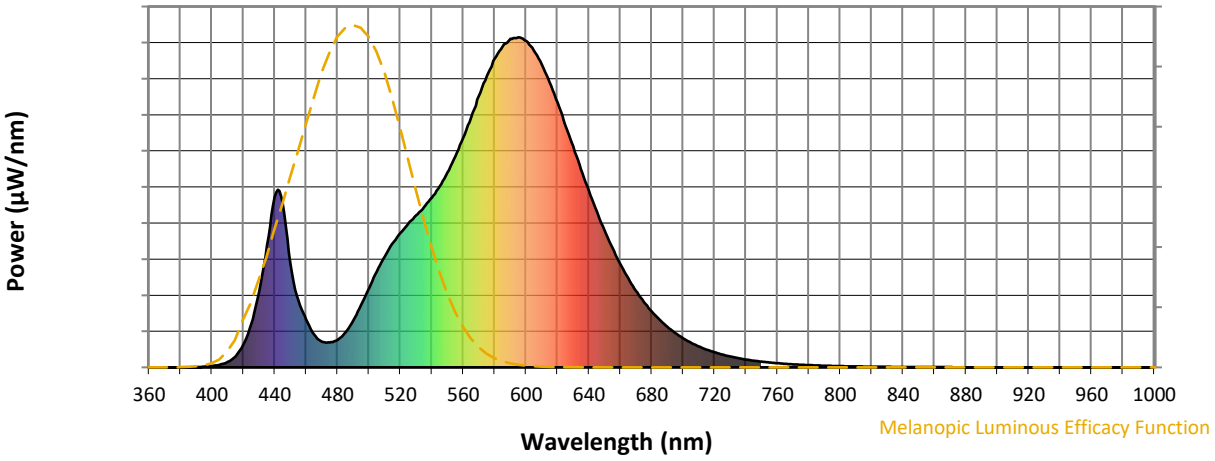



**Scotopic Lumens: NR** **S/P: 1.19**

| 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 | 142 | NR | 620 | 803 | NR | 750 | 17 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 189 | NR | 625 | 734 | NR | 755 | 15 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 240 | NR | 630 | 670 | NR | 760 | 13 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 290 | NR | 635 | 600 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 335 | NR | 640 | 535 | NR | 770 | 9 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 375 | NR | 645 | 473 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 1 | NR | 520 | 408 | NR | 650 | 415 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 434 | NR | 655 | 362 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 461 | NR | 660 | 313 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 8 | NR | 535 | 486 | NR | 665 | 271 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 16 | NR | 540 | 514 | NR | 670 | 231 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 33 | NR | 545 | 549 | NR | 675 | 198 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 69 | NR | 550 | 591 | NR | 680 | 169 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 131 | NR | 555 | 640 | NR | 685 | 144 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 227 | NR | 560 | 695 | NR | 690 | 123 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 369 | NR | 565 | 757 | NR | 695 | 104 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 517 | NR | 570 | 822 | NR | 700 | 88 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 498 | NR | 575 | 882 | NR | 705 | 75 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 315 | NR | 580 | 935 | NR | 710 | 63 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 204 | NR | 585 | 972 | NR | 715 | 54 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 145 | NR | 590 | 996 | NR | 720 | 46 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 100 | NR | 595 | 1000 | NR | 725 | 39 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 78 | NR | 600 | 989 | NR | 730 | 33 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 76 | NR | 605 | 960 | NR | 735 | 28 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 83 | NR | 610 | 918 | NR | 740 | 24 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 105 | NR | 615 | 864 | NR | 745 | 20 | NR | 875 | 1 | NR | | | |

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## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 2.13**

| 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 | 142 | NR | 620 | 803 | NR | 750 | 17 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 189 | NR | 625 | 734 | NR | 755 | 15 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 240 | NR | 630 | 670 | NR | 760 | 13 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 290 | NR | 635 | 600 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 335 | NR | 640 | 535 | NR | 770 | 9 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 375 | NR | 645 | 473 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 1 | NR | 520 | 408 | NR | 650 | 415 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 434 | NR | 655 | 362 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 461 | NR | 660 | 313 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 8 | NR | 535 | 486 | NR | 665 | 271 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 16 | NR | 540 | 514 | NR | 670 | 231 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 33 | NR | 545 | 549 | NR | 675 | 198 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 69 | NR | 550 | 591 | NR | 680 | 169 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 131 | NR | 555 | 640 | NR | 685 | 144 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 227 | NR | 560 | 695 | NR | 690 | 123 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 369 | NR | 565 | 757 | NR | 695 | 104 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 517 | NR | 570 | 822 | NR | 700 | 88 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 498 | NR | 575 | 882 | NR | 705 | 75 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 315 | NR | 580 | 935 | NR | 710 | 63 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 204 | NR | 585 | 972 | NR | 715 | 54 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 145 | NR | 590 | 996 | NR | 720 | 46 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 100 | NR | 595 | 1000 | NR | 725 | 39 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 78 | NR | 600 | 989 | NR | 730 | 33 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 76 | NR | 605 | 960 | NR | 735 | 28 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 83 | NR | 610 | 918 | NR | 740 | 24 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 105 | NR | 615 | 864 | NR | 745 | 20 | NR | 875 | 1 | NR | | | |

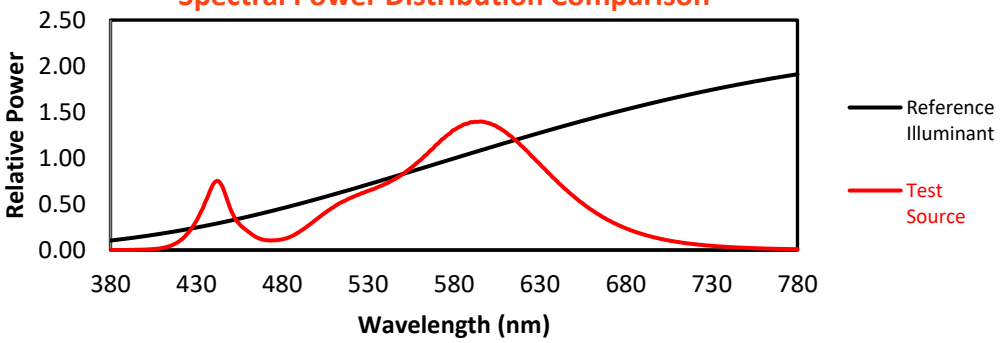
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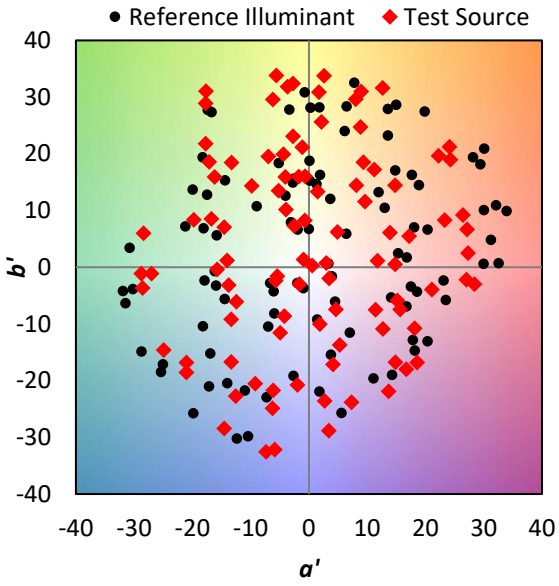
## Summary

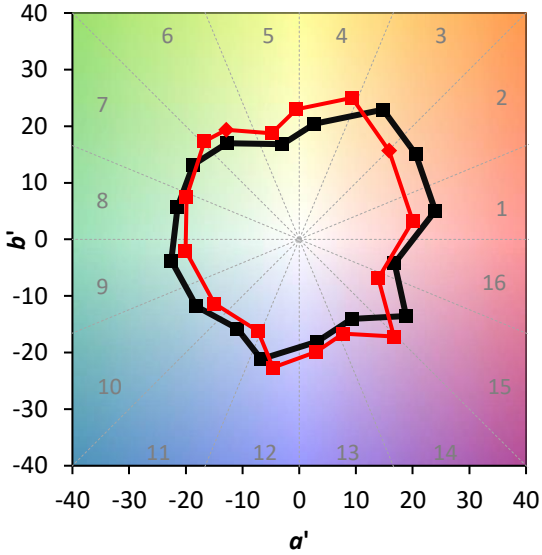
$R_f$ = 73.8
$R_g$ = 94.4
CIE $R_a$ = 70.8
$R_9$ = -43.2

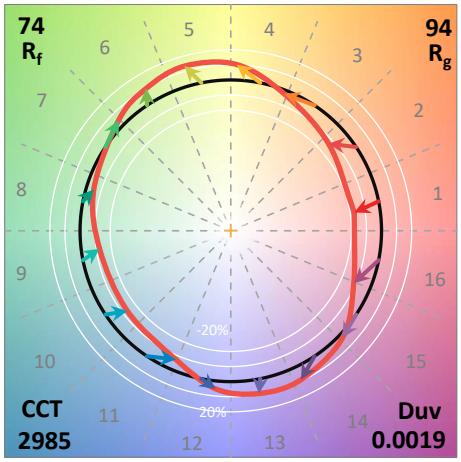
## Spectral Power Distribution Comparison

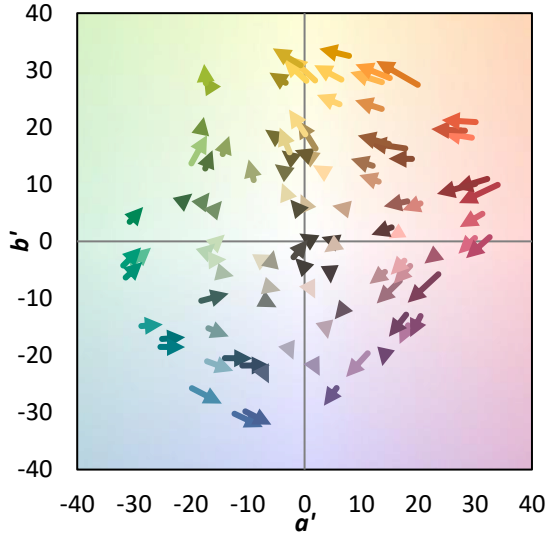



## Color Vector Graphics



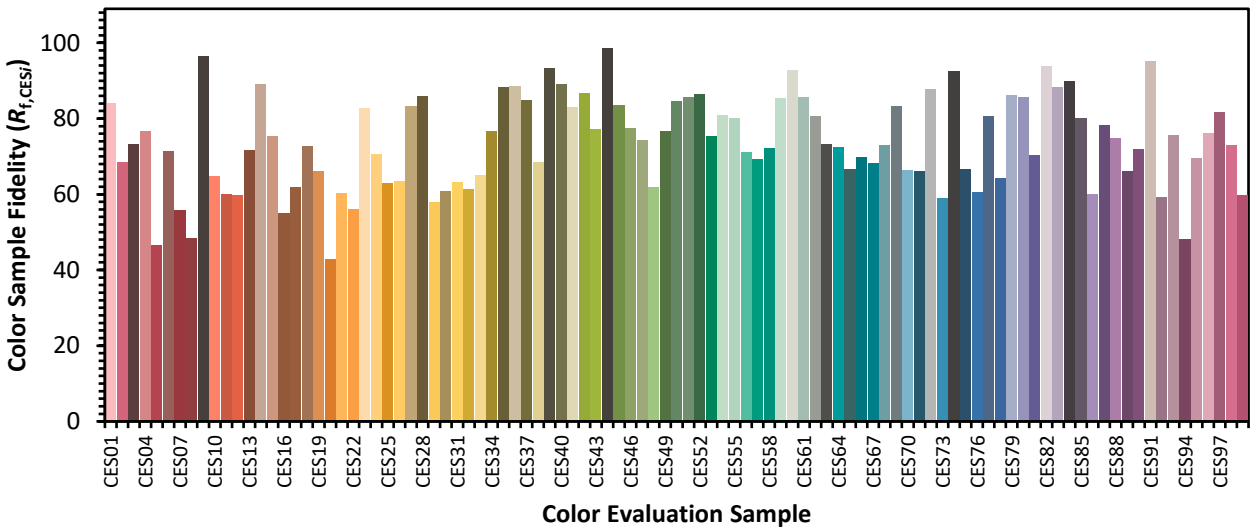



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**Individual Sample Fidelity Index ($R_{f,i}$)**

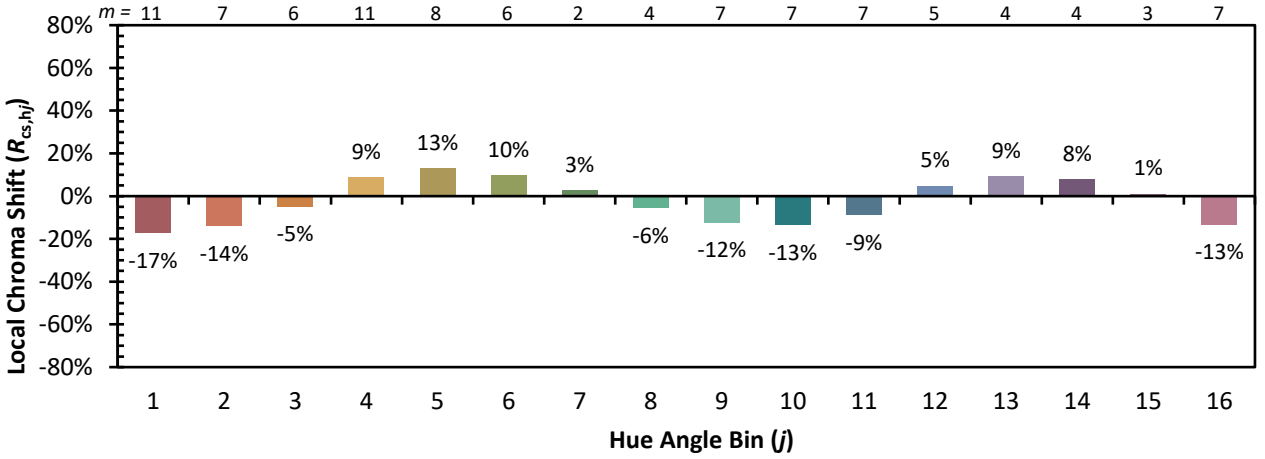
| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 63 | CES51 = 86 | CES76 = 61 |
| CES02 = 62 | CES27 = 83 | CES52 = 86 | CES77 = 81 |
| CES03 = 31 | CES28 = 86 | CES53 = 75 | CES78 = 64 |
| CES04 = 71 | CES29 = 58 | CES54 = 81 | CES79 = 86 |
| CES05 = 49 | CES30 = 61 | CES55 = 80 | CES80 = 86 |
| CES06 = 51 | CES31 = 63 | CES56 = 71 | CES81 = 70 |
| CES07 = 41 | CES32 = 61 | CES57 = 69 | CES82 = 94 |
| CES08 = 40 | CES33 = 65 | CES58 = 72 | CES83 = 88 |
| CES09 = 29 | CES34 = 77 | CES59 = 85 | CES84 = 90 |
| CES10 = 76 | CES35 = 88 | CES60 = 93 | CES85 = 80 |
| CES11 = 59 | CES36 = 89 | CES61 = 86 | CES86 = 60 |
| CES12 = 65 | CES37 = 85 | CES62 = 81 | CES87 = 78 |
| CES13 = 43 | CES38 = 69 | CES63 = 73 | CES88 = 75 |
| CES14 = 74 | CES39 = 93 | CES64 = 72 | CES89 = 66 |
| CES15 = 71 | CES40 = 89 | CES65 = 67 | CES90 = 72 |
| CES16 = 47 | CES41 = 83 | CES66 = 70 | CES91 = 95 |
| CES17 = 50 | CES42 = 87 | CES67 = 68 | CES92 = 59 |
| CES18 = 56 | CES43 = 77 | CES68 = 73 | CES93 = 76 |
| CES19 = 73 | CES44 = 99 | CES69 = 83 | CES94 = 48 |
| CES20 = 66 | CES45 = 83 | CES70 = 66 | CES95 = 70 |
| CES21 = 87 | CES46 = 77 | CES71 = 66 | CES96 = 76 |
| CES22 = 79 | CES47 = 74 | CES72 = 88 | CES97 = 82 |
| CES23 = 92 | CES48 = 62 | CES73 = 59 | CES98 = 73 |
| CES24 = 91 | CES49 = 77 | CES74 = 93 | CES99 = 60 |
| CES25 = 73 | CES50 = 85 | CES75 = 67 | |

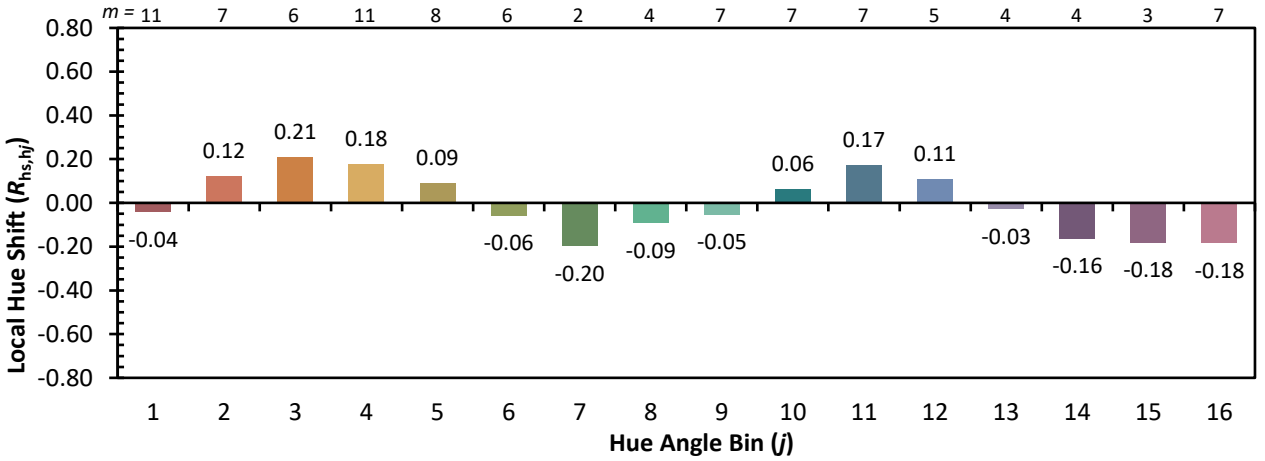


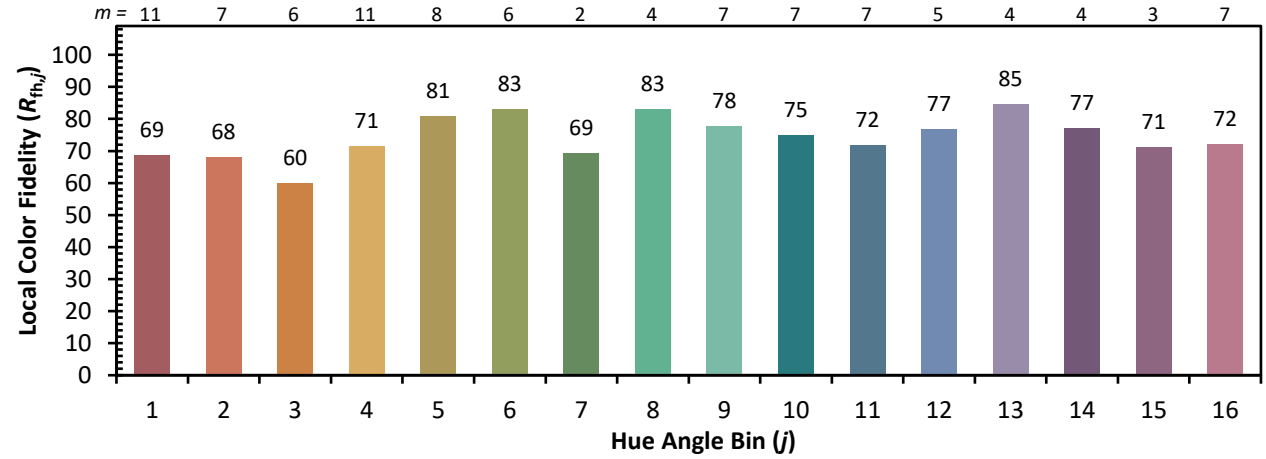
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## Color Rendition by Hue-Angle Bin



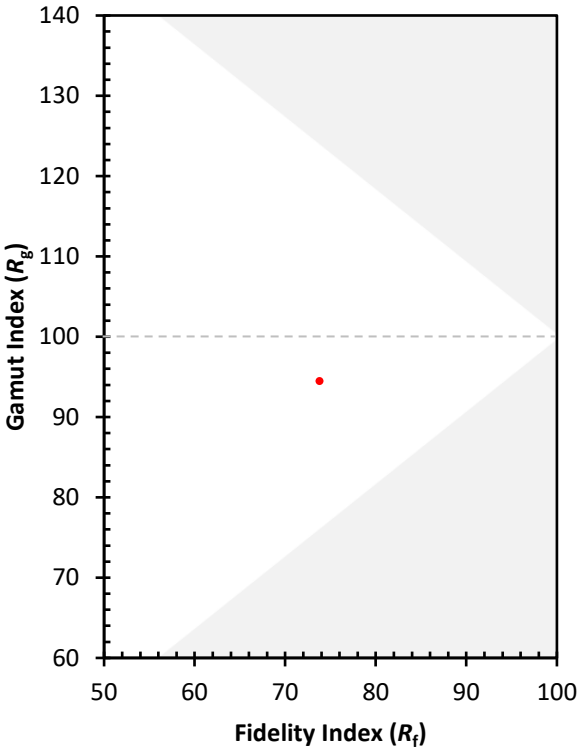



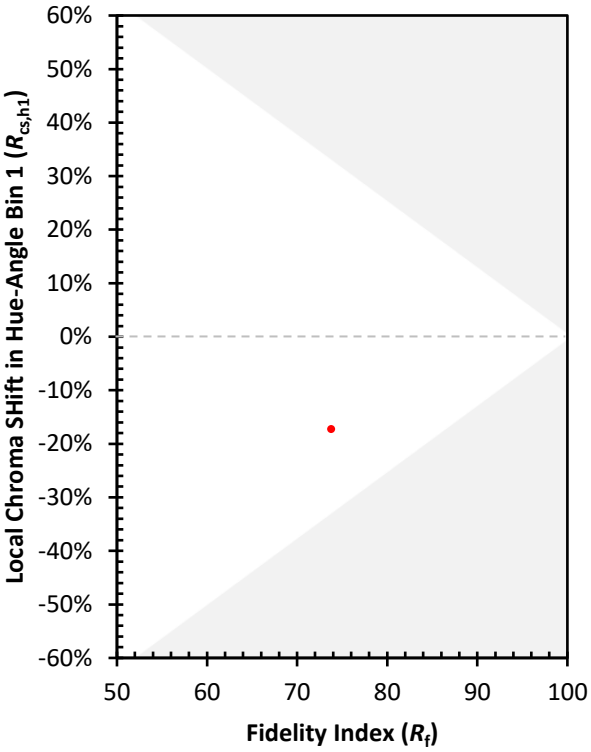



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## Measure Comparisons




(END OF REPORT)