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: STREETWORKS

Report Number: P1458871

Luminaire Tested: GLAN-SB6A-760-U-T4LG-HSS

Issue Date: 05/20/2026

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: | P1458871 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 5/21/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | STREETWORKS |
| Catalog Number: | GLAN-SB6A-760-U-T4LG-HSS |
| Description: | GALLEON II AREA AND ROADWAY HIGH DENSITY LUMINAIRE 350mA 6xLight Square PACKAGE 70CRI 5700K FIXTURE w/ TYPE IV LOW GLARE WITH HOUSE SIDE SHIELD |
| Light Source: | (156) 5700K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 20868.4 lumens |
| Efficiency: | N/A |
| Efficacy: | 122.1 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1' x H: 0') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B1 - U0 - G3 |

| | |
|---|---|
| Input Watts (W): | 170.9 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.97 |
| Total Harmonic Distortion (THDi): | NR |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

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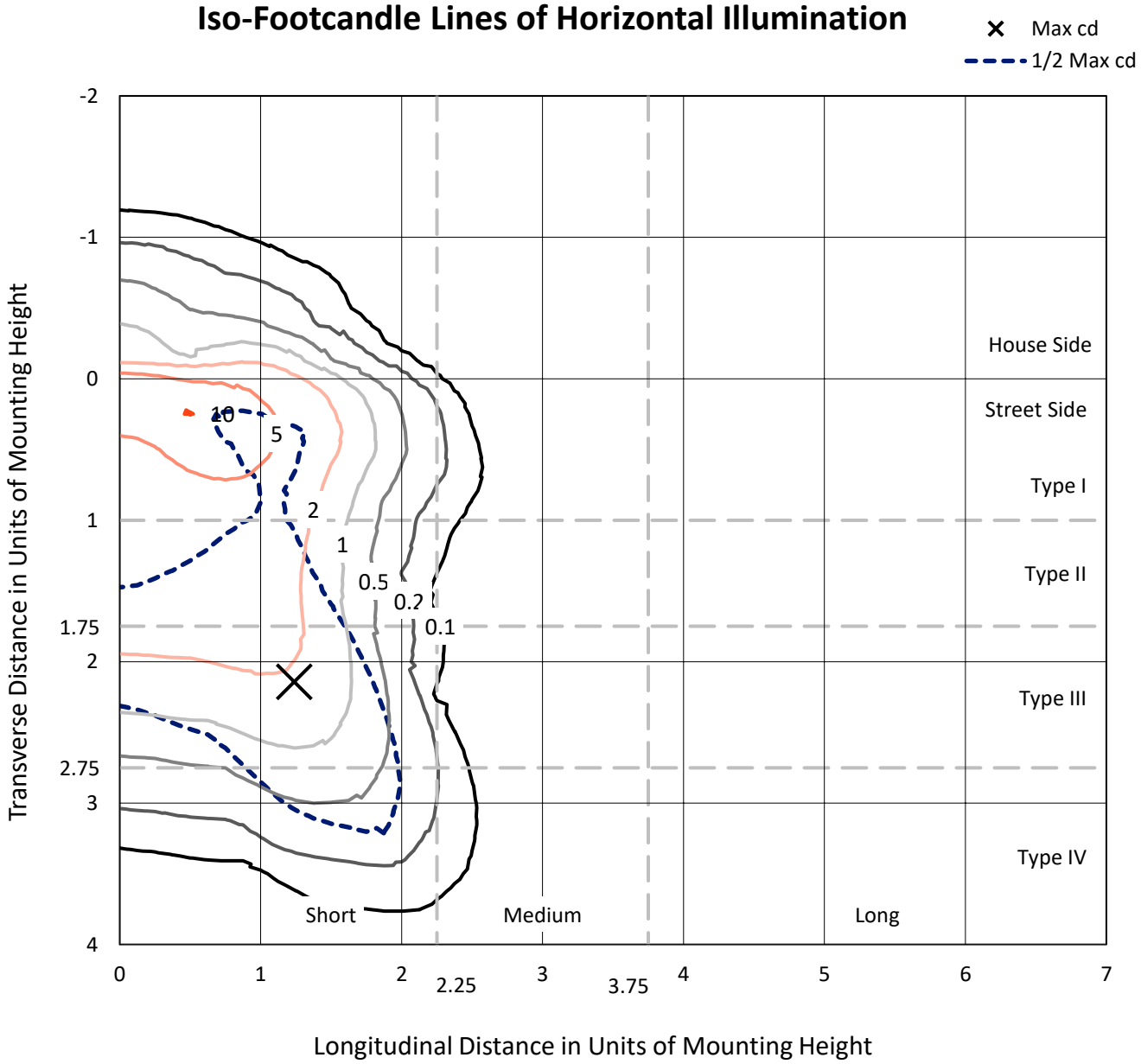
Scaled Data Report

REPORT NUMBER: P1458871
CATALOG NUMBER: GLAN-SB6A-760-U-T4LG-HSS

## Iso-Footcandle Lines of Horizontal Illumination




Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
Type IV - Short - N/A

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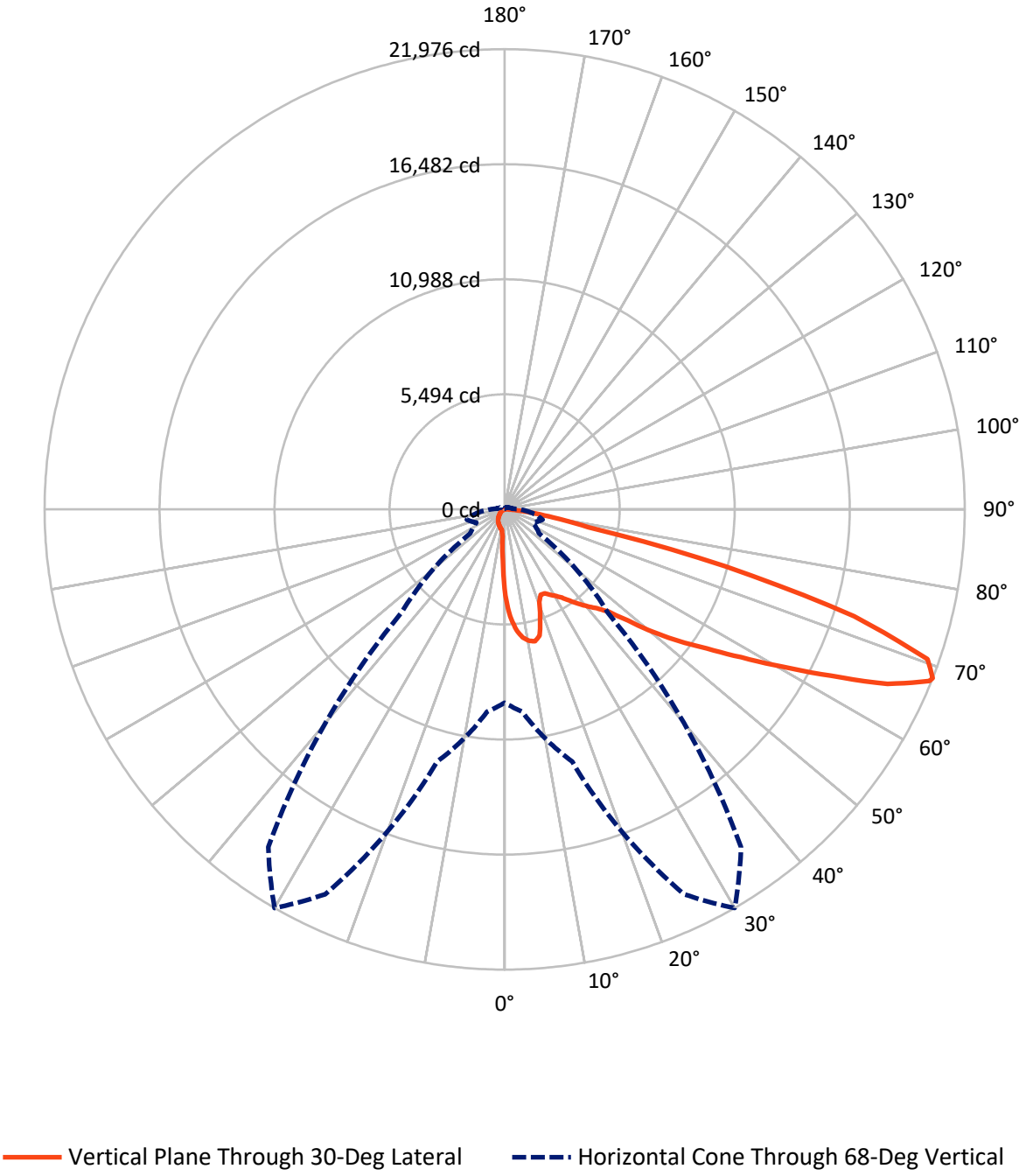
## Luminous Intensity Polar Plot



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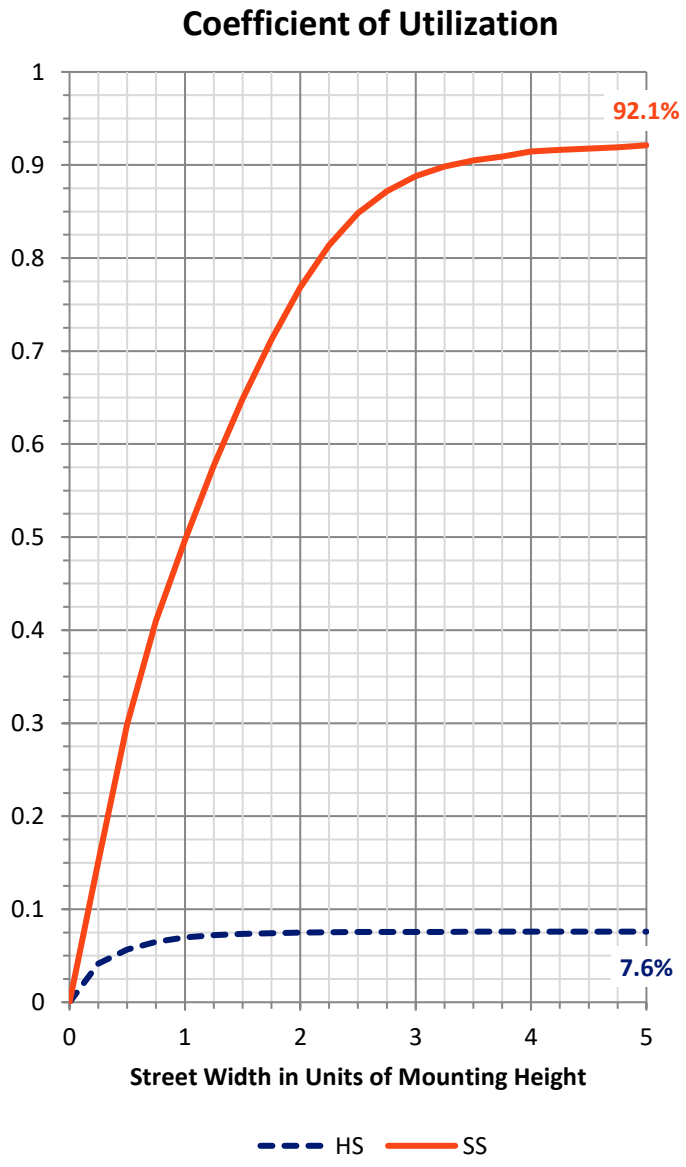
**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 1592.8 | 0.0 | 1592.8 |
| | % Fixture | 7.6 | 0.0 | 7.6 |
| **Street Side** | Lumens | 19275.6 | 0.0 | 19275.6 |
| | % Fixture | 92.4 | 0.0 | 92.4 |
| **Total** | Lumens | 20868.4 | 0.0 | 20868.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 355.1 | 1.7 |
| 10°-20° | 1013.7 | 4.9 |
| 20°-30° | 1593.0 | 7.6 |
| 30°-40° | 2498.5 | 12.0 |
| 40°-50° | 3734.6 | 17.9 |
| 50°-60° | 4968.2 | 23.8 |
| 60°-70° | 4802.7 | 23.0 |
| 70°-80° | 1726.4 | 8.3 |
| 80°-90° | 176.2 | 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° | 20868.4 | 100.0 |
| 0°-180° | 20868.4 | 100.0 |



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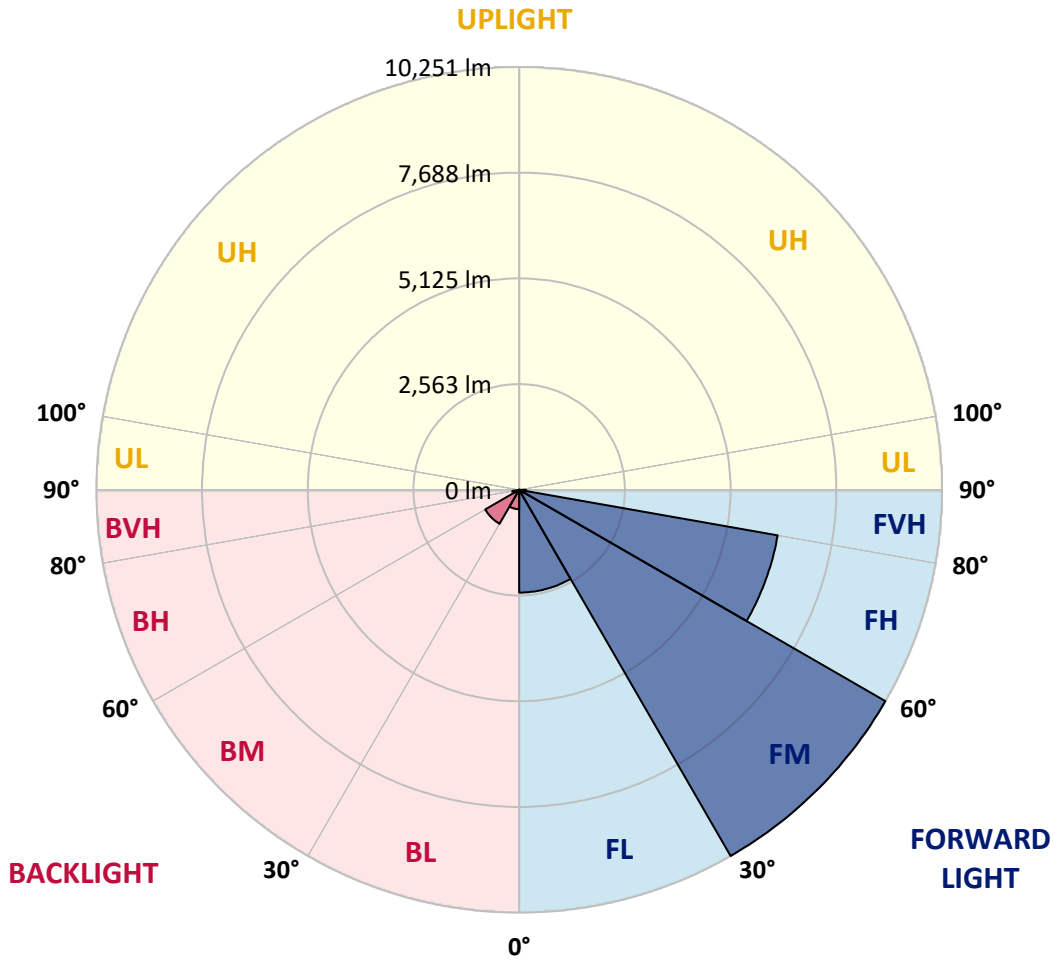
## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 2491.7 | 11.9 | | | |
| FM | (30°-60°) | 10250.6 | 49.1 | | | |
| FH | (60°-80°) | 6363.4 | 30.5 | | | G3/7500 |
| FVH | (80°-90°) | 169.9 | 0.8 | | | G2/225 |
| BL | (0°-30°) | 470.1 | 2.3 | B1/500 | | |
| BM | (30°-60°) | 950.7 | 4.6 | B1/1000 | | |
| BH | (60°-80°) | 165.7 | 0.8 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 6.3 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B1-U0-G3**
Type IV Short



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REPORT NUMBER: P1458871
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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 30° | 35° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 4115.0 | 4115.0 | 4115.0 | 4115.0 | *4115.0* | 4115.0 | 4115.0 | 4115.0 | 4115.0 | 4115.0 | 4115.0 |
| 2.5° | 5259.5 | 5259.5 | 5221.9 | 5171.9 | *5115.6* | 5096.9 | 4990.5 | 4840.4 | 4684.1 | 4502.7 | 4240.1 |
| 5° | 5934.9 | 5928.6 | 5853.6 | 5853.6 | *5778.5* | 5709.7 | 5603.4 | 5384.5 | 5134.4 | 4809.2 | 4352.7 |
| 7.5° | 6235.0 | 6247.6 | 6216.3 | 6216.3 | *6172.5* | 6122.5 | 6059.9 | 5847.3 | 5553.4 | 5115.6 | 4465.2 |
| 10° | 6341.4 | 6347.6 | 6347.6 | 6391.4 | *6378.9* | 6372.6 | 6366.4 | 6247.6 | 5941.1 | 5428.3 | 4584.0 |
| 12.5° | 6085.0 | 6116.2 | 6203.8 | 6397.6 | *6460.2* | 6529.0 | 6622.8 | 6585.3 | 6372.6 | 5822.3 | 4765.4 |
| 15° | 5259.5 | 5265.7 | 5509.6 | 5991.1 | *6247.6* | 6510.2 | 6872.9 | 6948.0 | 6810.4 | 6247.6 | 4953.0 |
| 17.5° | 4340.1 | 4358.9 | 4552.8 | 5090.6 | *5503.4* | 6110.0 | 7016.8 | 7323.2 | 7273.2 | 6666.6 | 5128.1 |
| 20° | 3958.7 | 3983.7 | 4077.5 | 4415.2 | *4727.9* | 5290.7 | 6872.9 | 7679.7 | 7698.4 | 7085.6 | 5290.7 |
| 22.5° | 3871.1 | 3889.9 | 3964.9 | 4227.6 | *4421.4* | 4796.7 | 6385.1 | 7961.1 | 8180.0 | 7567.1 | 5484.6 |
| 25° | 3846.1 | 3864.9 | 3977.4 | 4265.1 | *4446.5* | 4759.1 | 5941.1 | 8111.2 | 8749.1 | 8067.4 | 5672.2 |
| 27.5° | 3827.3 | 3852.3 | 4033.7 | 4402.7 | *4615.3* | 4915.5 | 5859.8 | 8142.5 | 9293.2 | 8599.0 | 5978.6 |
| 30° | 3852.3 | 3889.9 | 4127.5 | 4546.5 | *4790.4* | 5128.1 | 6053.7 | 8173.7 | 9893.5 | 9205.6 | 6366.4 |
| 32.5° | 3952.4 | 3983.7 | 4271.4 | 4740.4 | *5021.8* | 5403.3 | 6385.1 | 8361.3 | 10462.6 | 9824.7 | 6735.4 |
| 35° | 4065.0 | 4108.8 | 4452.7 | 5015.6 | *5353.3* | 5784.8 | 6835.4 | 8730.3 | 11006.7 | 10412.6 | 7116.8 |
| 37.5° | 4202.6 | 4252.6 | 4665.3 | 5328.2 | *5716.0* | 6203.8 | 7323.2 | 9243.1 | 11488.2 | 10894.1 | 7498.3 |
| 40° | 4390.2 | 4446.5 | 4909.2 | 5659.7 | *6078.7* | 6566.5 | 7804.8 | 9749.7 | 11857.2 | 11181.8 | 7748.5 |
| 42.5° | 5128.1 | 5203.2 | 5397.0 | 5984.9 | *6453.9* | 6954.2 | 8280.0 | 10231.2 | 11994.8 | 11275.6 | 7798.5 |
| 45° | 6504.0 | 6579.0 | 6529.0 | 6641.5 | *6954.2* | 7423.3 | 8799.1 | 10694.0 | 12013.6 | 11250.6 | 7773.5 |
| 47.5° | 7886.1 | 7973.6 | 7929.8 | 7867.3 | *7936.1* | 8161.2 | 9380.7 | 10987.9 | 11913.5 | 11238.1 | 7773.5 |
| 50° | 9205.6 | 9155.6 | 9161.8 | 9143.1 | *9205.6* | 9324.4 | 9943.6 | 11044.2 | 11888.5 | 11356.9 | 7842.3 |
| 52.5° | 9912.3 | 9937.3 | 10093.6 | 10325.0 | *10462.6* | 10581.4 | 10587.7 | 11131.8 | 11707.1 | 11156.8 | 7761.0 |
| 55° | 10606.5 | 10656.5 | 11019.2 | 11413.2 | *11719.6* | 11944.8 | 11231.8 | 11075.5 | 10625.2 | 10487.6 | 7335.7 |
| 57.5° | 11388.2 | 11457.0 | 11969.8 | 12782.8 | *13320.6* | 13439.4 | 11869.7 | 10024.9 | 8993.0 | 9530.8 | 6510.2 |
| 60° | 12463.8 | 12545.1 | 13226.8 | 14446.3 | *15246.8* | 15002.9 | 11919.8 | 8355.1 | 7141.8 | 7911.1 | 5372.0 |
| 62.5° | 13308.1 | 13470.7 | 14702.7 | 16603.9 | *17485.6* | 16710.2 | 10987.9 | 6403.9 | 4990.5 | 5559.6 | 3921.1 |
| 65° | 12407.6 | 12720.2 | 14727.7 | 19074.1 | *20093.5* | 18717.6 | 9524.6 | 4371.4 | 2814.2 | 3595.9 | 2507.8 |
| 67.5° | 10031.1 | 10468.9 | 13076.7 | 20274.8 | *21882.1* | 19774.5 | 7498.3 | 2320.2 | 1613.5 | 2088.8 | 1319.6 |
| 68° | *9230.6* | *9705.9* | *12470.1* | *20274.8* | *21975.9* | *19680.7* | *6960.5* | *2007.5* | *1488.4* | *1876.1* | *1144.4* |
| 70° | 6378.9 | 6716.6 | 9587.1 | 19136.7 | *21425.5* | 17942.2 | 4584.0 | 1150.7 | 1119.4 | 1288.3 | 756.7 |
| 72.5° | 3126.9 | 3489.6 | 5128.1 | 15165.5 | *17454.4* | 13789.6 | 2088.8 | 763.0 | 850.5 | 944.3 | 594.1 |
| 75° | 1244.5 | 1319.6 | 2020.0 | 7479.6 | *10906.6* | 8799.1 | 1094.4 | 575.4 | 731.7 | 737.9 | 469.0 |
| 77.5° | 712.9 | 756.7 | 1119.4 | 2751.7 | *4090.0* | 3933.6 | 706.7 | 412.8 | 581.6 | 531.6 | 306.4 |
| 80° | 400.2 | 406.5 | 631.6 | 1450.9 | *2338.9* | 2095.0 | 481.5 | 300.2 | 444.0 | 375.2 | 206.4 |
| 82.5° | 200.1 | 225.1 | 400.2 | 800.5 | *1300.8* | 1332.1 | 256.4 | 212.6 | 356.5 | 268.9 | 168.9 |
| 85° | 143.8 | 156.3 | 287.7 | 444.0 | *600.4* | 900.5 | 156.3 | 106.3 | 268.9 | 181.4 | 118.8 |
| 87.5° | 75.0 | 93.8 | 181.4 | 218.9 | *243.9* | 306.4 | 75.0 | 50.0 | 150.1 | 106.3 | 62.5 |
| 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: P1458871
CATALOG NUMBER: GLAN-SB6A-760-U-T4LG-HSS

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 4115.0 | 4115.0 | 4115.0 | 4115.0 | 4115.0 | 4115.0 | 4115.0 | 4115.0 | 4115.0 | 4115.0 | 4115.0 |
| 2.5° | 4115.0 | 3971.2 | 3677.2 | 3333.3 | 3064.4 | 2789.2 | 2564.1 | 2351.4 | 2251.4 | 2238.9 | 2263.9 |
| 5° | 4096.2 | 3783.6 | 3114.4 | 2457.7 | 1919.9 | 1544.7 | 1338.3 | 1232.0 | 1175.7 | 1150.7 | 1157.0 |
| 7.5° | 4058.7 | 3583.4 | 2514.0 | 1663.5 | 1244.5 | 1081.9 | 1031.9 | 1013.1 | 1006.9 | 1006.9 | 1006.9 |
| 10° | 4021.2 | 3314.5 | 1926.2 | 1219.5 | 1019.4 | 975.6 | 963.1 | 963.1 | 956.8 | 956.8 | 963.1 |
| 12.5° | 4002.4 | 3064.4 | 1494.7 | 1019.4 | 950.6 | 931.8 | 919.3 | 913.1 | 913.1 | 913.1 | 919.3 |
| 15° | 3958.7 | 2789.2 | 1207.0 | 944.3 | 906.8 | 881.8 | 875.5 | 869.3 | 869.3 | 869.3 | 869.3 |
| 17.5° | 3921.1 | 2520.3 | 1050.6 | 894.3 | 863.0 | 838.0 | 831.8 | 825.5 | 825.5 | 831.8 | 831.8 |
| 20° | 3864.9 | 2263.9 | 944.3 | 844.3 | 819.2 | 794.2 | 788.0 | 781.7 | 788.0 | 788.0 | 788.0 |
| 22.5° | 3796.1 | 2051.2 | 881.8 | 806.7 | 775.5 | 750.5 | 750.5 | 750.5 | 750.5 | 750.5 | 756.7 |
| 25° | 3752.3 | 1901.2 | 838.0 | 763.0 | 731.7 | 712.9 | 706.7 | 706.7 | 719.2 | 719.2 | 725.4 |
| 27.5° | 3821.1 | 1863.6 | 844.3 | 750.5 | 694.2 | 675.4 | 669.2 | 669.2 | 681.7 | 687.9 | 694.2 |
| 30° | 4027.5 | 1932.4 | 919.3 | 788.0 | 669.2 | 637.9 | 631.6 | 631.6 | 650.4 | 656.6 | 662.9 |
| 32.5° | 4265.1 | 2076.3 | 1031.9 | 838.0 | 650.4 | 600.4 | 587.9 | 587.9 | 606.6 | 612.9 | 619.1 |
| 35° | 4590.3 | 2301.4 | 1182.0 | 881.8 | 662.9 | 562.8 | 537.8 | 537.8 | 550.3 | 562.8 | 569.1 |
| 37.5° | 5009.3 | 2670.4 | 1357.1 | 913.1 | 662.9 | 519.1 | 487.8 | 481.5 | 494.1 | 494.1 | 500.3 |
| 40° | 5447.1 | 3151.9 | 1538.4 | 913.1 | 631.6 | 475.3 | 444.0 | 425.3 | 431.5 | 425.3 | 431.5 |
| 42.5° | 5691.0 | 3539.7 | 1694.8 | 856.8 | 594.1 | 431.5 | 400.2 | 375.2 | 369.0 | 356.5 | 362.7 |
| 45° | 5828.5 | 3714.8 | 1651.0 | 794.2 | 556.6 | 400.2 | 362.7 | 331.5 | 318.9 | 300.2 | 300.2 |
| 47.5° | 5828.5 | 3733.5 | 1413.4 | 744.2 | 519.1 | 375.2 | 325.2 | 293.9 | 275.2 | 256.4 | 262.7 |
| 50° | 5759.8 | 3564.7 | 1119.4 | 694.2 | 475.3 | 350.2 | 293.9 | 268.9 | 243.9 | 231.4 | 231.4 |
| 52.5° | 5472.1 | 3014.3 | 856.8 | 631.6 | 425.3 | 318.9 | 262.7 | 237.6 | 212.6 | 206.4 | 206.4 |
| 55° | 4978.0 | 2213.8 | 694.2 | 569.1 | 381.5 | 293.9 | 237.6 | 218.9 | 193.9 | 181.4 | 181.4 |
| 57.5° | 4046.2 | 1513.4 | 575.4 | 512.8 | 337.7 | 262.7 | 212.6 | 193.9 | 162.6 | 150.1 | 150.1 |
| 60° | 3001.8 | 988.1 | 487.8 | 450.3 | 287.7 | 237.6 | 187.6 | 162.6 | 137.6 | 125.1 | 118.8 |
| 62.5° | 2026.2 | 669.2 | 406.5 | 356.5 | 243.9 | 206.4 | 162.6 | 137.6 | 106.3 | 81.3 | 81.3 |
| 65° | 1263.3 | 519.1 | 337.7 | 281.4 | 212.6 | 181.4 | 137.6 | 106.3 | 75.0 | 56.3 | 50.0 |
| 67.5° | 725.4 | 419.0 | 275.2 | 218.9 | 181.4 | 143.8 | 106.3 | 87.6 | 62.5 | 43.8 | 37.5 |
| 68° | *669.2* | *400.2* | *256.4* | *206.4* | *168.9* | *137.6* | *100.1* | *81.3* | *56.3* | *37.5* | *37.5* |
| 70° | 544.1 | 356.5 | 218.9 | 168.9 | 143.8 | 112.6 | 87.6 | 68.8 | 43.8 | 25.0 | 25.0 |
| 72.5° | 481.5 | 300.2 | 187.6 | 131.3 | 100.1 | 93.8 | 68.8 | 50.0 | 31.3 | 18.8 | 12.5 |
| 75° | 394.0 | 237.6 | 150.1 | 100.1 | 68.8 | 68.8 | 50.0 | 31.3 | 12.5 | 0.0 | 0.0 |
| 77.5° | 256.4 | 175.1 | 118.8 | 62.5 | 37.5 | 43.8 | 31.3 | 12.5 | 0.0 | 0.0 | 0.0 |
| 80° | 168.9 | 131.3 | 81.3 | 31.3 | 18.8 | 18.8 | 6.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 118.8 | 87.6 | 50.0 | 12.5 | 6.3 | 6.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 75.0 | 37.5 | 18.8 | 6.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 31.3 | 12.5 | 6.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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: SP1-2407-184-7

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-757-U-5WQ

Data in this report applies to families of products including GSS-SB1A-757-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

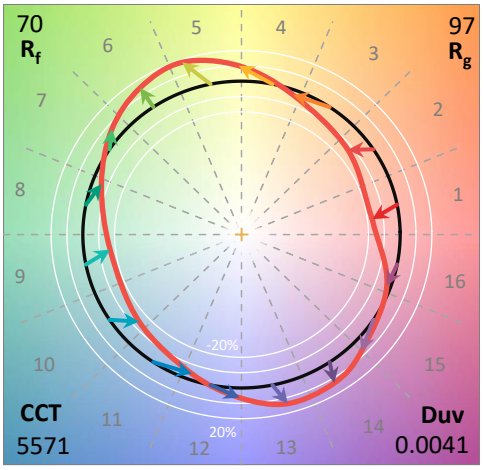
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2407-184-7 |
| 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-757-U-5WQ** |
| Description: | GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 5700K CCT 26 LEDS |

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 5571 |
| CIE u': | 0.2033 |
| CIE v': | 0.4806 |
| Duv: | 0.0041 |
| CIE x: | 0.3308 |
| CIE y: | 0.3476 |
| CIE z: | 0.3216 |
| Peak Wavelength (nm): | 442 |
| Dominant Wavelength (nm): | 544 |
| Purity: | 3.635698 |
| Rf: | 70.4 |
| Rg: | 97.1 |

| | |
|---|---|
| CRI (Ra): | 69.9 |
| R1: | 68.8 |
| R2: | 72.5 |
| R3: | 76.8 |
| R4: | 72.0 |
| R5: | 70.9 |
| R6: | 65.6 |
| R7: | 75.5 |
| R8: | 56.8 |
| R9: | -35.4 |
| R10: | 36.7 |
| R11: | 73.9 |
| R12: | 47.8 |
| R13: | 68.0 |
| R14: | 87.0 |
| R15: | 59.8 |




## Test Conditions

| | |
|---|---|
| Stabilization Time: | 20M |
| Operation Time: | 1H 20M |
| Sphere Temperature (°C): | 25.2 |

REPORT NUMBER: SP1-2407-184-7

| 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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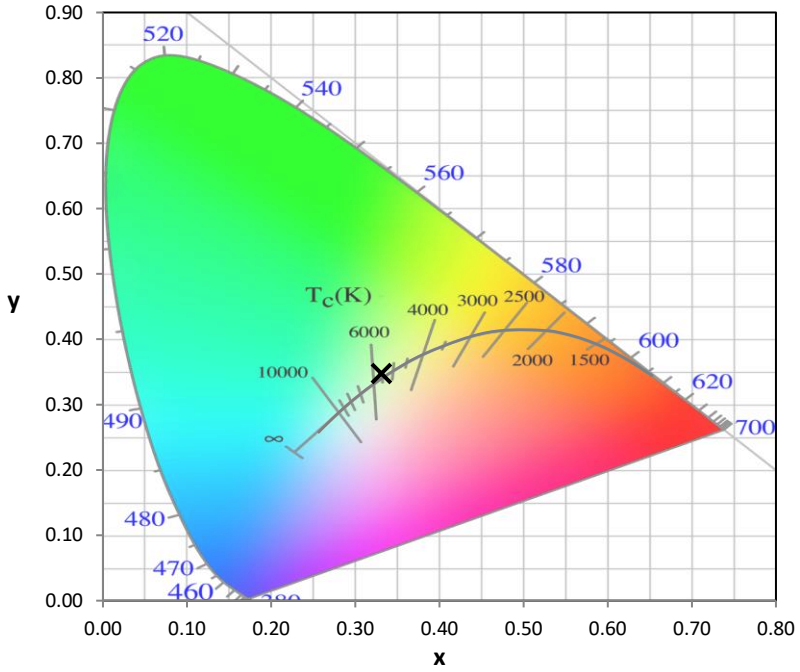
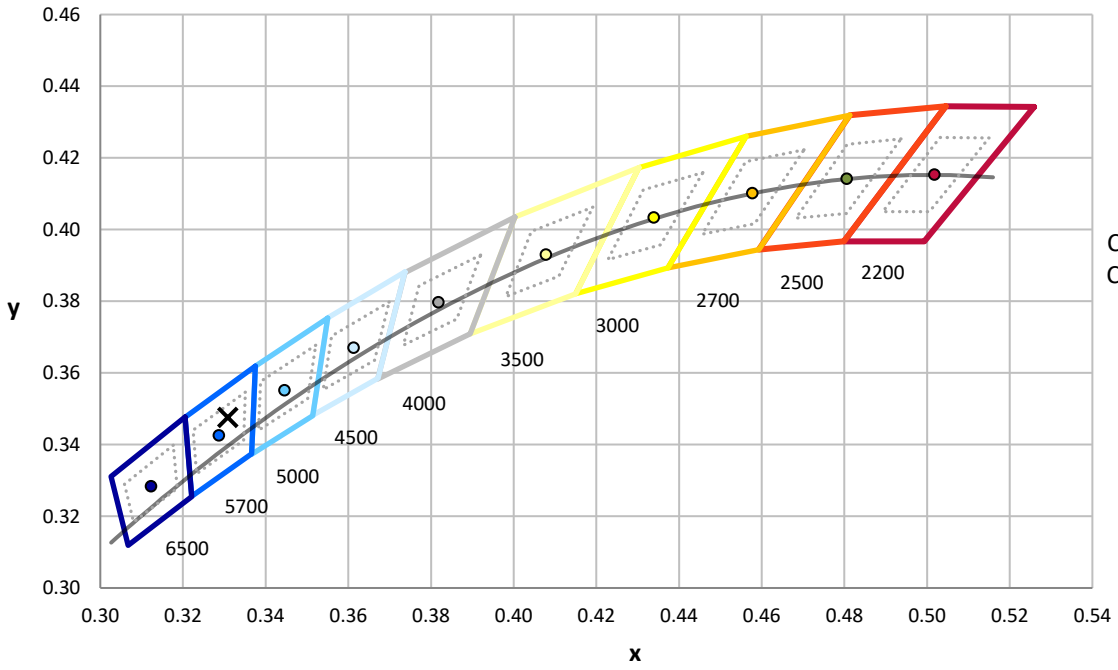
## CIE 1931 Chromaticity Diagram




## CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles




CCT = 5571K
CIE x = 0.3308
CIE y = 0.3476
Duv = 0.0041

Point lies inside the ANSI 5700K 4-step quadrangle

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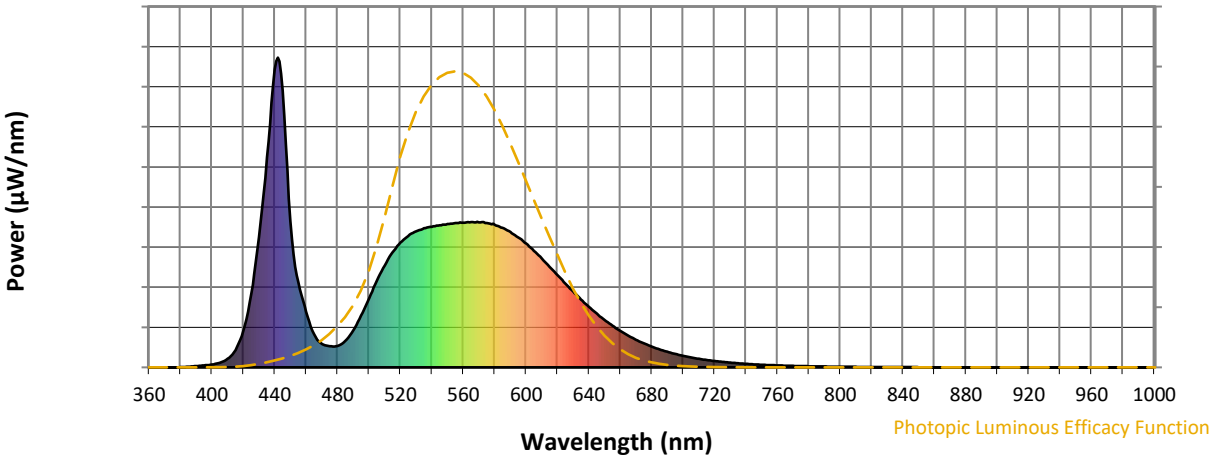
## Photopic Flux vs. Wavelength




## 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 | 120 | NR | 620 | 298 | NR | 750 | 9 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 167 | NR | 625 | 270 | NR | 755 | 7 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 222 | NR | 630 | 245 | NR | 760 | 6 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 279 | NR | 635 | 219 | NR | 765 | 6 | NR | 895 | 0 | NR |
| 380 | 1 | NR | 510 | 329 | NR | 640 | 196 | NR | 770 | 5 | NR | 900 | 0 | NR |
| 385 | 2 | NR | 515 | 371 | NR | 645 | 173 | NR | 775 | 4 | NR | 905 | 0 | NR |
| 390 | 4 | NR | 520 | 403 | NR | 650 | 153 | NR | 780 | 4 | NR | 910 | 0 | NR |
| 395 | 6 | NR | 525 | 424 | NR | 655 | 135 | NR | 785 | 3 | NR | 915 | 0 | NR |
| 400 | 9 | NR | 530 | 439 | NR | 660 | 117 | NR | 790 | 3 | NR | 920 | 0 | NR |
| 405 | 14 | NR | 535 | 449 | NR | 665 | 103 | NR | 795 | 2 | NR | 925 | 0 | NR |
| 410 | 28 | NR | 540 | 454 | NR | 670 | 89 | NR | 800 | 2 | NR | 930 | 0 | NR |
| 415 | 55 | NR | 545 | 459 | NR | 675 | 77 | NR | 805 | 2 | NR | 935 | 0 | NR |
| 420 | 118 | NR | 550 | 463 | NR | 680 | 67 | NR | 810 | 2 | NR | 940 | 0 | NR |
| 425 | 237 | NR | 555 | 466 | NR | 685 | 58 | NR | 815 | 1 | NR | 945 | 0 | NR |
| 430 | 420 | NR | 560 | 467 | NR | 690 | 50 | NR | 820 | 1 | NR | 950 | 0 | NR |
| 435 | 677 | NR | 565 | 469 | NR | 695 | 43 | NR | 825 | 1 | NR | 955 | 0 | NR |
| 440 | 962 | NR | 570 | 469 | NR | 700 | 37 | NR | 830 | 1 | NR | 960 | 0 | NR |
| 445 | 894 | NR | 575 | 466 | NR | 705 | 32 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 472 | NR | 580 | 461 | NR | 710 | 28 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 275 | NR | 585 | 450 | NR | 715 | 24 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 180 | NR | 590 | 437 | NR | 720 | 21 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 107 | NR | 595 | 420 | NR | 725 | 18 | NR | 855 | 0 | NR | 985 | 0 | NR |
| 470 | 76 | NR | 600 | 400 | NR | 730 | 15 | NR | 860 | 0 | NR | 990 | 0 | NR |
| 475 | 68 | NR | 605 | 376 | NR | 735 | 13 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 69 | NR | 610 | 352 | NR | 740 | 11 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 86 | NR | 615 | 325 | NR | 745 | 10 | NR | 875 | 0 | NR | | | |

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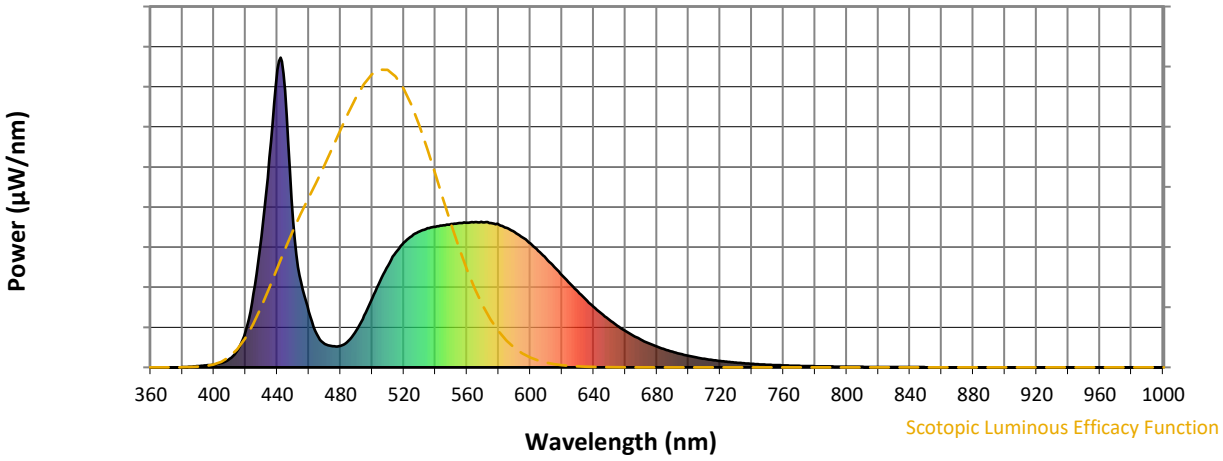
## Scotopic Flux vs. Wavelength




**Scotopic Lumens: NR** **S/P: 1.84**

| 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 | 120 | NR | 620 | 298 | NR | 750 | 9 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 167 | NR | 625 | 270 | NR | 755 | 7 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 222 | NR | 630 | 245 | NR | 760 | 6 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 279 | NR | 635 | 219 | NR | 765 | 6 | NR | 895 | 0 | NR |
| 380 | 1 | NR | 510 | 329 | NR | 640 | 196 | NR | 770 | 5 | NR | 900 | 0 | NR |
| 385 | 2 | NR | 515 | 371 | NR | 645 | 173 | NR | 775 | 4 | NR | 905 | 0 | NR |
| 390 | 4 | NR | 520 | 403 | NR | 650 | 153 | NR | 780 | 4 | NR | 910 | 0 | NR |
| 395 | 6 | NR | 525 | 424 | NR | 655 | 135 | NR | 785 | 3 | NR | 915 | 0 | NR |
| 400 | 9 | NR | 530 | 439 | NR | 660 | 117 | NR | 790 | 3 | NR | 920 | 0 | NR |
| 405 | 14 | NR | 535 | 449 | NR | 665 | 103 | NR | 795 | 2 | NR | 925 | 0 | NR |
| 410 | 28 | NR | 540 | 454 | NR | 670 | 89 | NR | 800 | 2 | NR | 930 | 0 | NR |
| 415 | 55 | NR | 545 | 459 | NR | 675 | 77 | NR | 805 | 2 | NR | 935 | 0 | NR |
| 420 | 118 | NR | 550 | 463 | NR | 680 | 67 | NR | 810 | 2 | NR | 940 | 0 | NR |
| 425 | 237 | NR | 555 | 466 | NR | 685 | 58 | NR | 815 | 1 | NR | 945 | 0 | NR |
| 430 | 420 | NR | 560 | 467 | NR | 690 | 50 | NR | 820 | 1 | NR | 950 | 0 | NR |
| 435 | 677 | NR | 565 | 469 | NR | 695 | 43 | NR | 825 | 1 | NR | 955 | 0 | NR |
| 440 | 962 | NR | 570 | 469 | NR | 700 | 37 | NR | 830 | 1 | NR | 960 | 0 | NR |
| 445 | 894 | NR | 575 | 466 | NR | 705 | 32 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 472 | NR | 580 | 461 | NR | 710 | 28 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 275 | NR | 585 | 450 | NR | 715 | 24 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 180 | NR | 590 | 437 | NR | 720 | 21 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 107 | NR | 595 | 420 | NR | 725 | 18 | NR | 855 | 0 | NR | 985 | 0 | NR |
| 470 | 76 | NR | 600 | 400 | NR | 730 | 15 | NR | 860 | 0 | NR | 990 | 0 | NR |
| 475 | 68 | NR | 605 | 376 | NR | 735 | 13 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 69 | NR | 610 | 352 | NR | 740 | 11 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 86 | NR | 615 | 325 | NR | 745 | 10 | NR | 875 | 0 | NR | | | |

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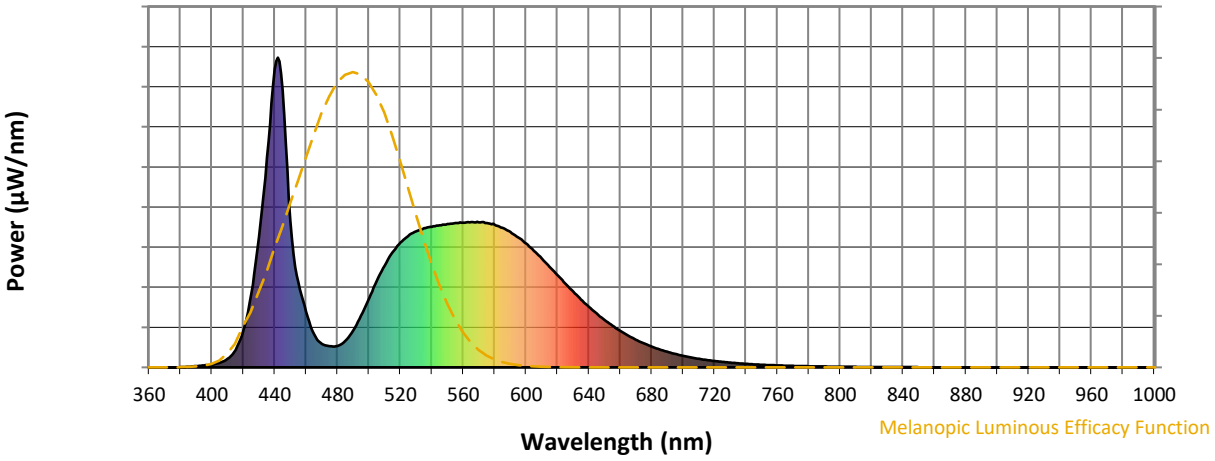
## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 3.71**

| 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 | 120 | NR | 620 | 298 | NR | 750 | 9 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 167 | NR | 625 | 270 | NR | 755 | 7 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 222 | NR | 630 | 245 | NR | 760 | 6 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 279 | NR | 635 | 219 | NR | 765 | 6 | NR | 895 | 0 | NR |
| 380 | 1 | NR | 510 | 329 | NR | 640 | 196 | NR | 770 | 5 | NR | 900 | 0 | NR |
| 385 | 2 | NR | 515 | 371 | NR | 645 | 173 | NR | 775 | 4 | NR | 905 | 0 | NR |
| 390 | 4 | NR | 520 | 403 | NR | 650 | 153 | NR | 780 | 4 | NR | 910 | 0 | NR |
| 395 | 6 | NR | 525 | 424 | NR | 655 | 135 | NR | 785 | 3 | NR | 915 | 0 | NR |
| 400 | 9 | NR | 530 | 439 | NR | 660 | 117 | NR | 790 | 3 | NR | 920 | 0 | NR |
| 405 | 14 | NR | 535 | 449 | NR | 665 | 103 | NR | 795 | 2 | NR | 925 | 0 | NR |
| 410 | 28 | NR | 540 | 454 | NR | 670 | 89 | NR | 800 | 2 | NR | 930 | 0 | NR |
| 415 | 55 | NR | 545 | 459 | NR | 675 | 77 | NR | 805 | 2 | NR | 935 | 0 | NR |
| 420 | 118 | NR | 550 | 463 | NR | 680 | 67 | NR | 810 | 2 | NR | 940 | 0 | NR |
| 425 | 237 | NR | 555 | 466 | NR | 685 | 58 | NR | 815 | 1 | NR | 945 | 0 | NR |
| 430 | 420 | NR | 560 | 467 | NR | 690 | 50 | NR | 820 | 1 | NR | 950 | 0 | NR |
| 435 | 677 | NR | 565 | 469 | NR | 695 | 43 | NR | 825 | 1 | NR | 955 | 0 | NR |
| 440 | 962 | NR | 570 | 469 | NR | 700 | 37 | NR | 830 | 1 | NR | 960 | 0 | NR |
| 445 | 894 | NR | 575 | 466 | NR | 705 | 32 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 472 | NR | 580 | 461 | NR | 710 | 28 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 275 | NR | 585 | 450 | NR | 715 | 24 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 180 | NR | 590 | 437 | NR | 720 | 21 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 107 | NR | 595 | 420 | NR | 725 | 18 | NR | 855 | 0 | NR | 985 | 0 | NR |
| 470 | 76 | NR | 600 | 400 | NR | 730 | 15 | NR | 860 | 0 | NR | 990 | 0 | NR |
| 475 | 68 | NR | 605 | 376 | NR | 735 | 13 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 69 | NR | 610 | 352 | NR | 740 | 11 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 86 | NR | 615 | 325 | NR | 745 | 10 | NR | 875 | 0 | NR | | | |

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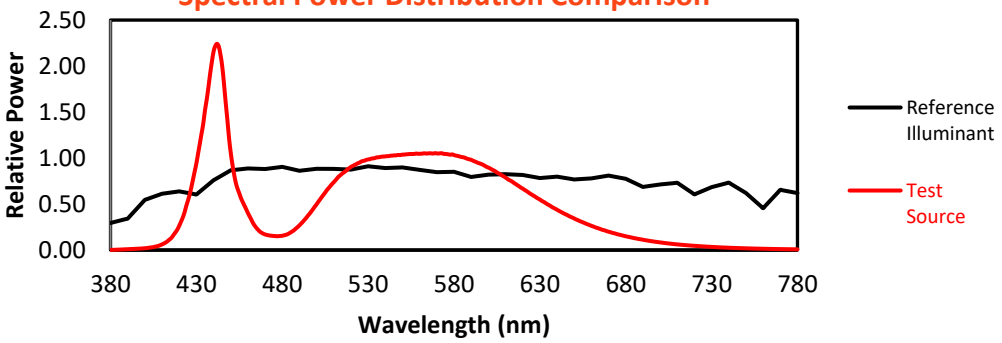
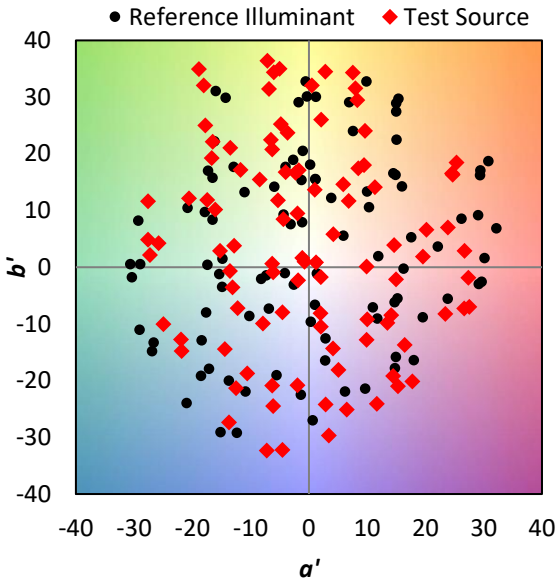
## Summary

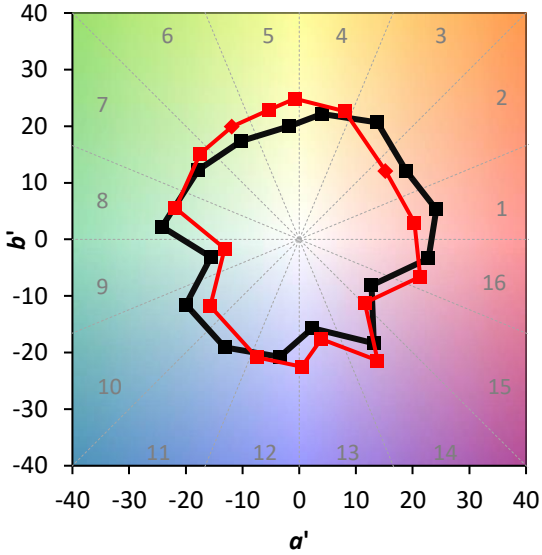
$R_f$ = 70.4
$R_g$ = 97.1
CIE $R_a$ = 69.9
$R_9$ = -35.4

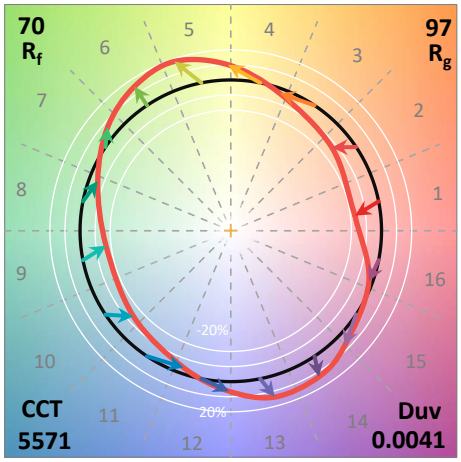
## Spectral Power Distribution Comparison

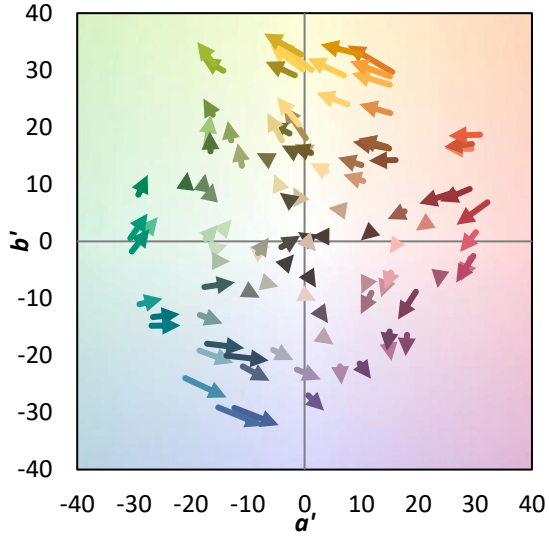



## Color Vector Graphics



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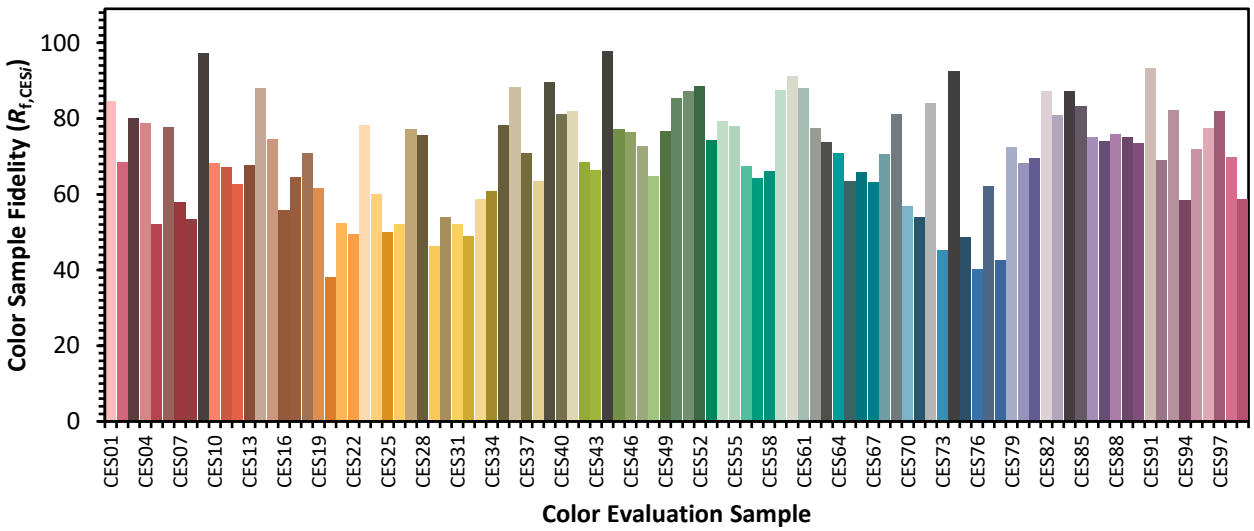
**Individual Sample Fidelity Index ($R_{f,i}$)**

| | | | |
|---|---|---|---|
| CES01 = 85 | CES26 = 52 | CES51 = 87 | CES76 = 40 |
| CES02 = 59 | CES27 = 77 | CES52 = 88 | CES77 = 62 |
| CES03 = 30 | CES28 = 76 | CES53 = 74 | CES78 = 43 |
| CES04 = 68 | CES29 = 46 | CES54 = 79 | CES79 = 72 |
| CES05 = 45 | CES30 = 54 | CES55 = 78 | CES80 = 68 |
| CES06 = 49 | CES31 = 52 | CES56 = 67 | CES81 = 70 |
| CES07 = 38 | CES32 = 49 | CES57 = 64 | CES82 = 87 |
| CES08 = 37 | CES33 = 59 | CES58 = 66 | CES83 = 81 |
| CES09 = 29 | CES34 = 61 | CES59 = 87 | CES84 = 87 |
| CES10 = 72 | CES35 = 78 | CES60 = 91 | CES85 = 83 |
| CES11 = 55 | CES36 = 88 | CES61 = 88 | CES86 = 75 |
| CES12 = 61 | CES37 = 71 | CES62 = 77 | CES87 = 74 |
| CES13 = 41 | CES38 = 64 | CES63 = 74 | CES88 = 76 |
| CES14 = 74 | CES39 = 90 | CES64 = 71 | CES89 = 75 |
| CES15 = 70 | CES40 = 81 | CES65 = 63 | CES90 = 73 |
| CES16 = 46 | CES41 = 82 | CES66 = 66 | CES91 = 93 |
| CES17 = 48 | CES42 = 69 | CES67 = 63 | CES92 = 69 |
| CES18 = 55 | CES43 = 67 | CES68 = 71 | CES93 = 82 |
| CES19 = 70 | CES44 = 98 | CES69 = 81 | CES94 = 58 |
| CES20 = 63 | CES45 = 77 | CES70 = 57 | CES95 = 72 |
| CES21 = 85 | CES46 = 76 | CES71 = 54 | CES96 = 78 |
| CES22 = 77 | CES47 = 73 | CES72 = 84 | CES97 = 82 |
| CES23 = 91 | CES48 = 65 | CES73 = 45 | CES98 = 70 |
| CES24 = 90 | CES49 = 77 | CES74 = 92 | CES99 = 59 |
| CES25 = 71 | CES50 = 85 | CES75 = 49 | |



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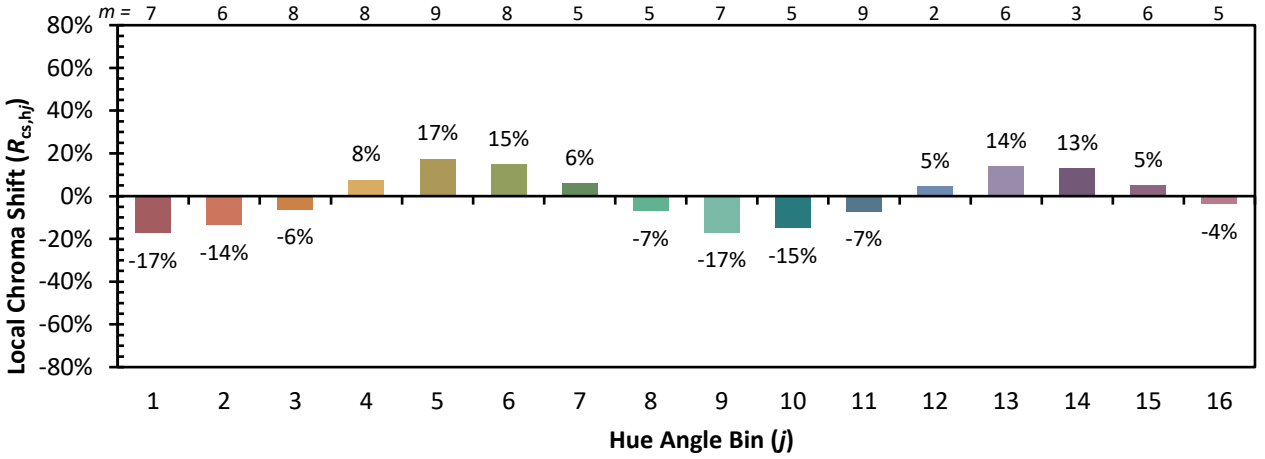
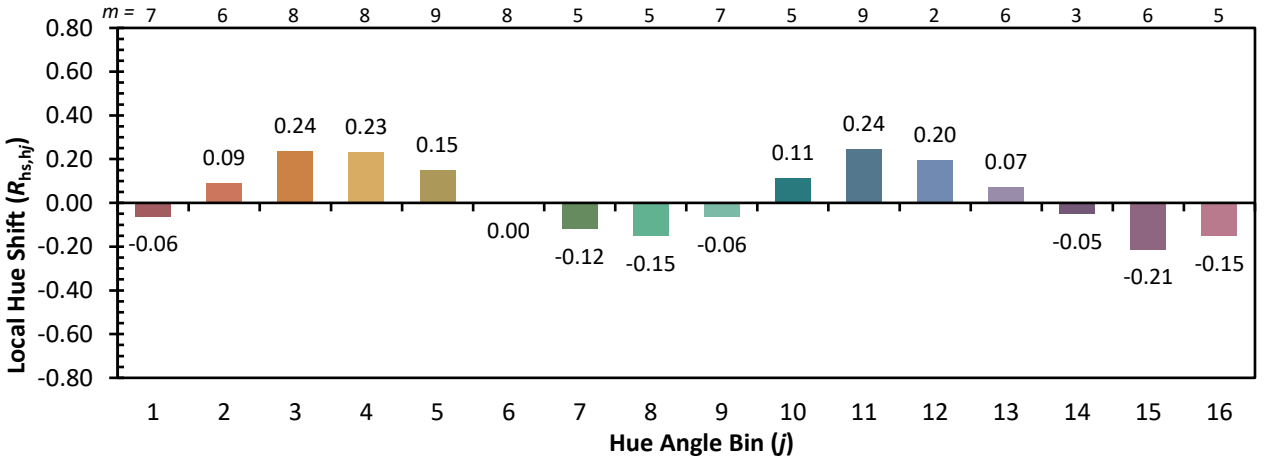
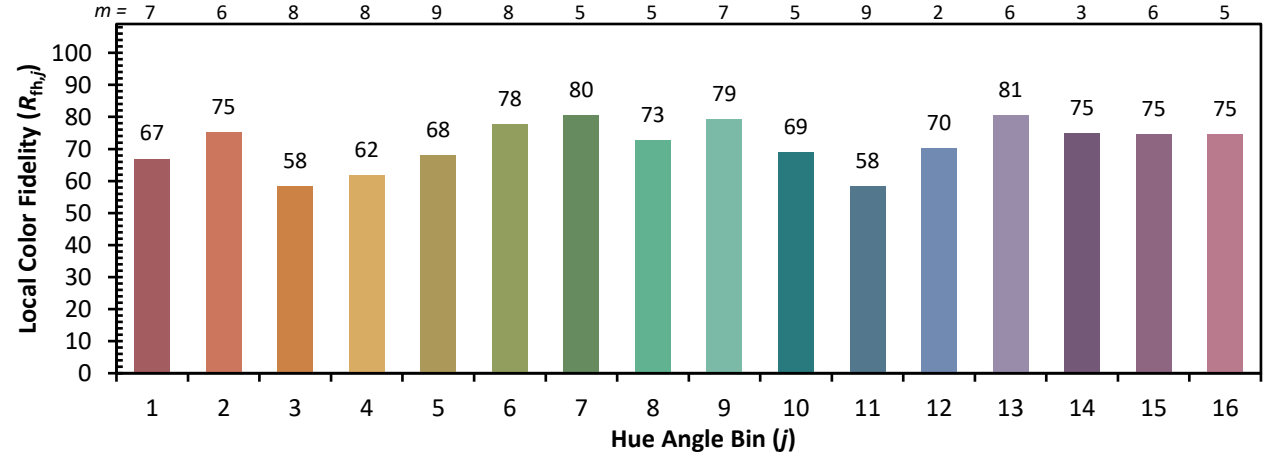
## Color Rendition by Hue-Angle Bin



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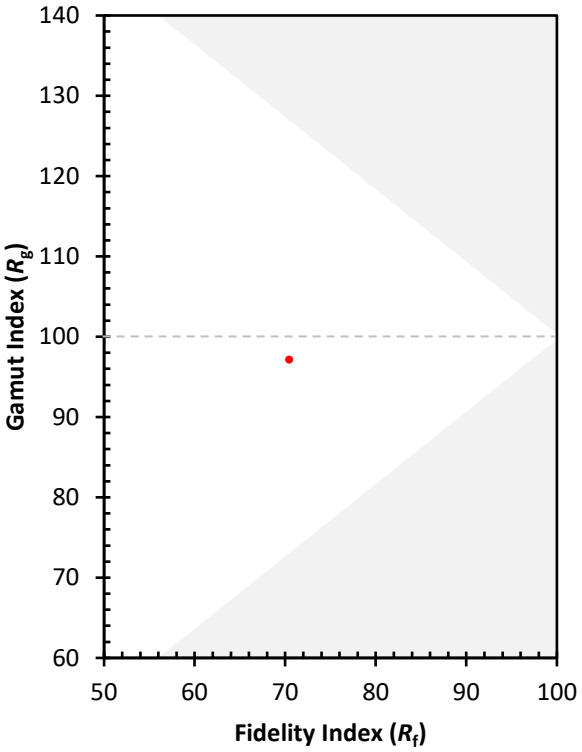
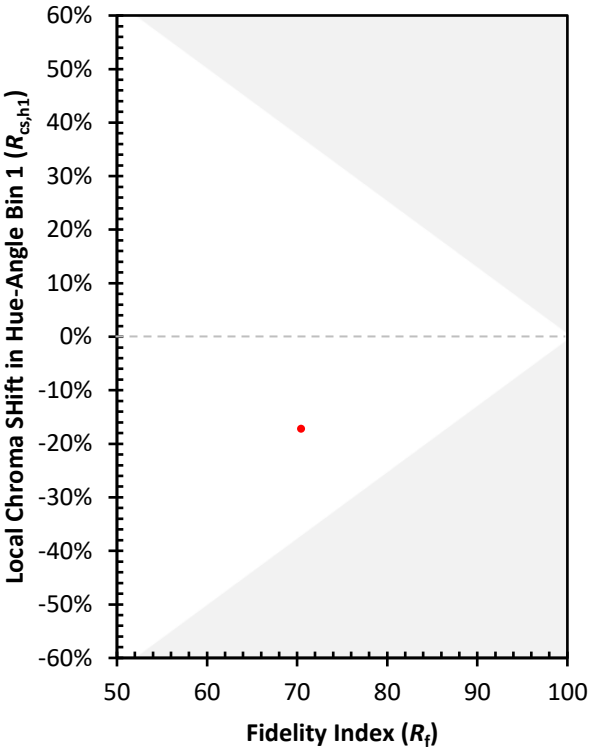
## Measure Comparisons




(END OF REPORT)