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: P1458881

Luminaire Tested: GLAN-SB8C-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: | P1458881 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 5/21/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | STREETWORKS |
| Catalog Number: | GLAN-SB8C-760-U-T4LG-HSS |
| Description: | GALLEON II AREA AND ROADWAY HIGH DENSITY LUMINAIRE 615mA 8xLight Square PACKAGE 70CRI 5700K FIXTURE w/ TYPE IV LOW GLARE WITH HOUSE SIDE SHIELD |
| Light Source: | (208) 5700K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 46458.2 lumens |
| Efficiency: | N/A |
| Efficacy: | 116.2 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1.5' x H: 0') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B3 - U0 - G5 |

| | |
|---|---|
| Input Watts (W): | 399.8 |
| 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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REPORT NUMBER: P1458881
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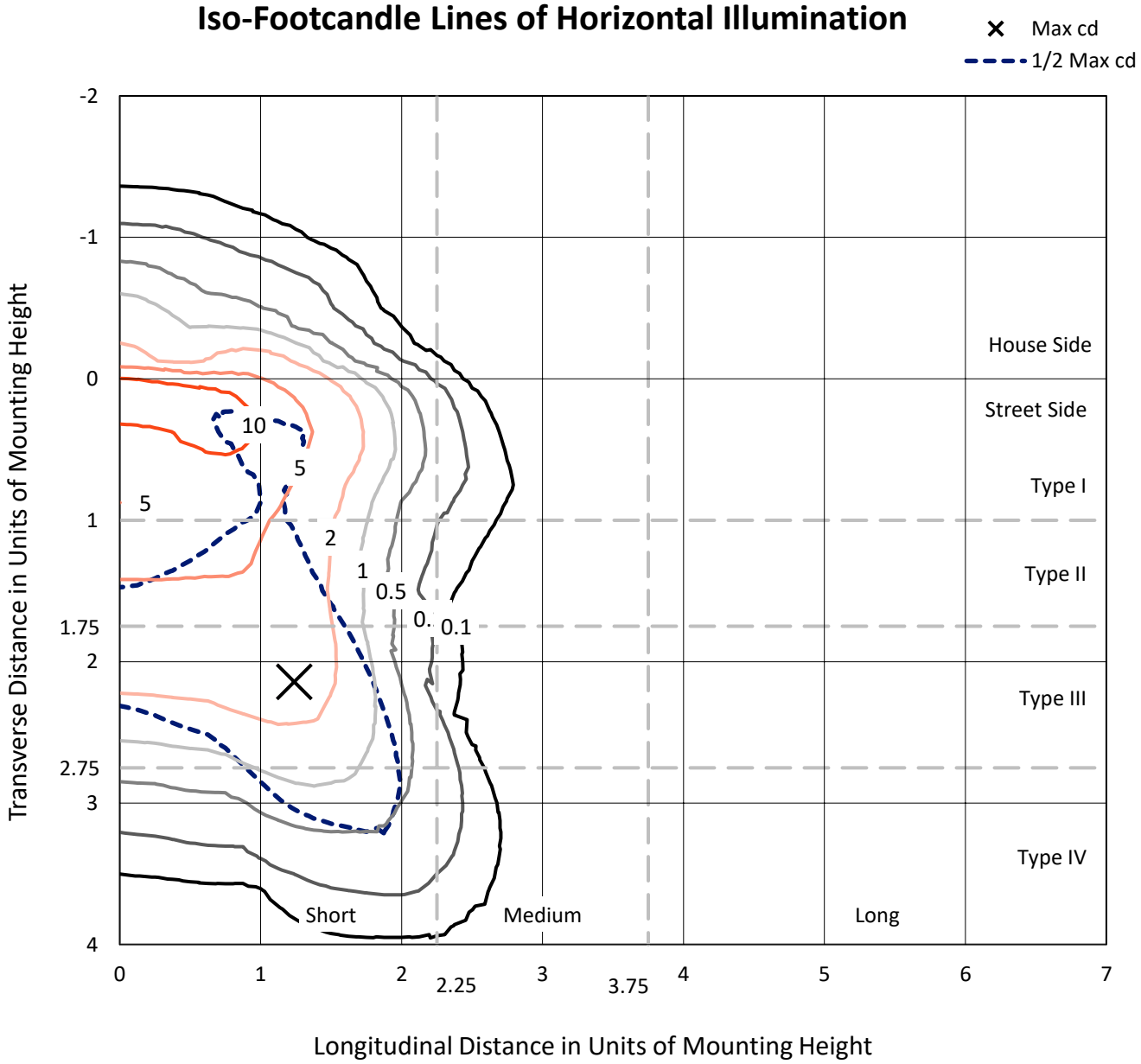
## Iso-Footcandle Lines of Horizontal Illumination




Based on 30 foot mounting height. Maximum calculated value = 15.6 fc
Type IV - Short - N/A

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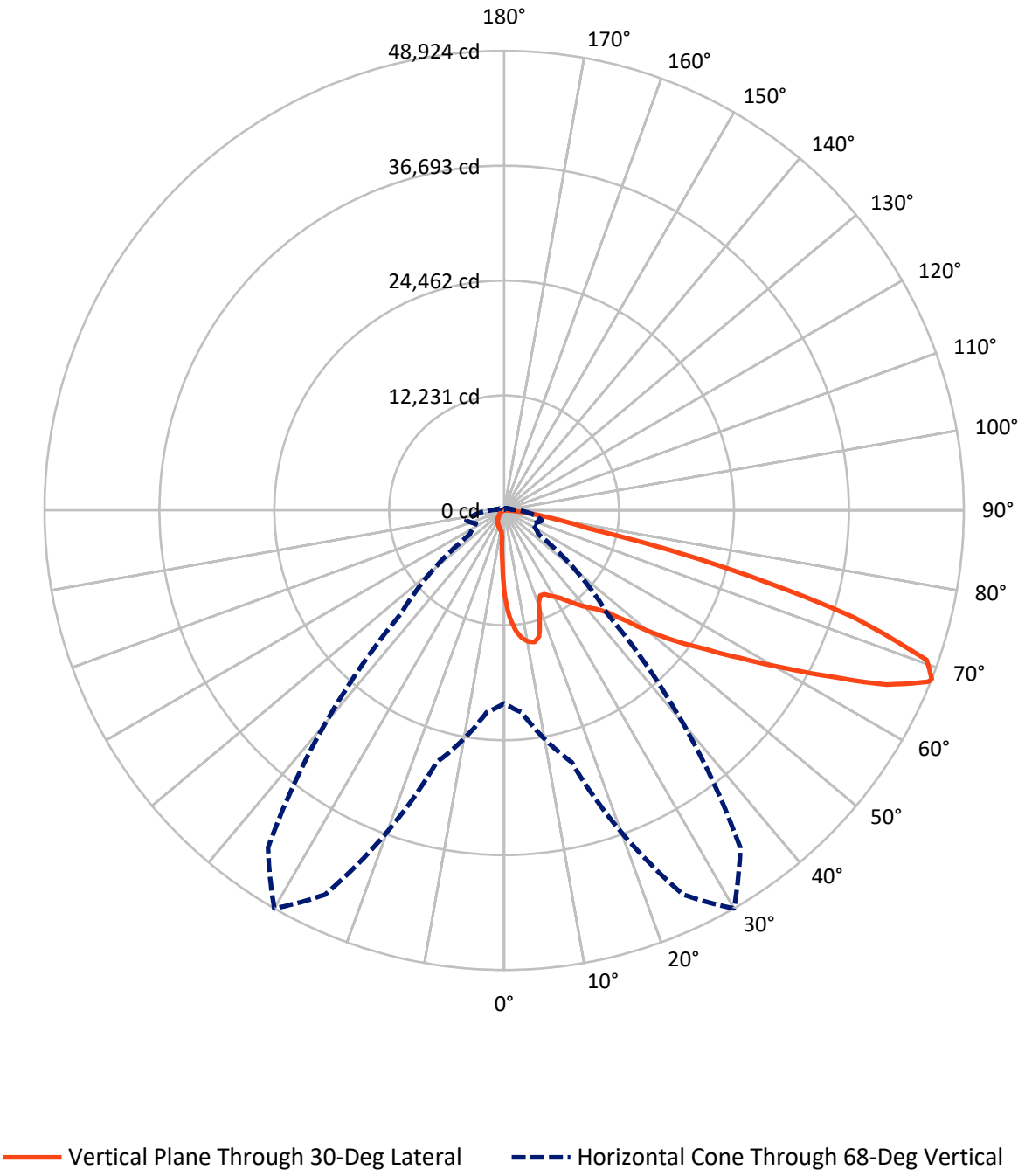
## Luminous Intensity Polar Plot



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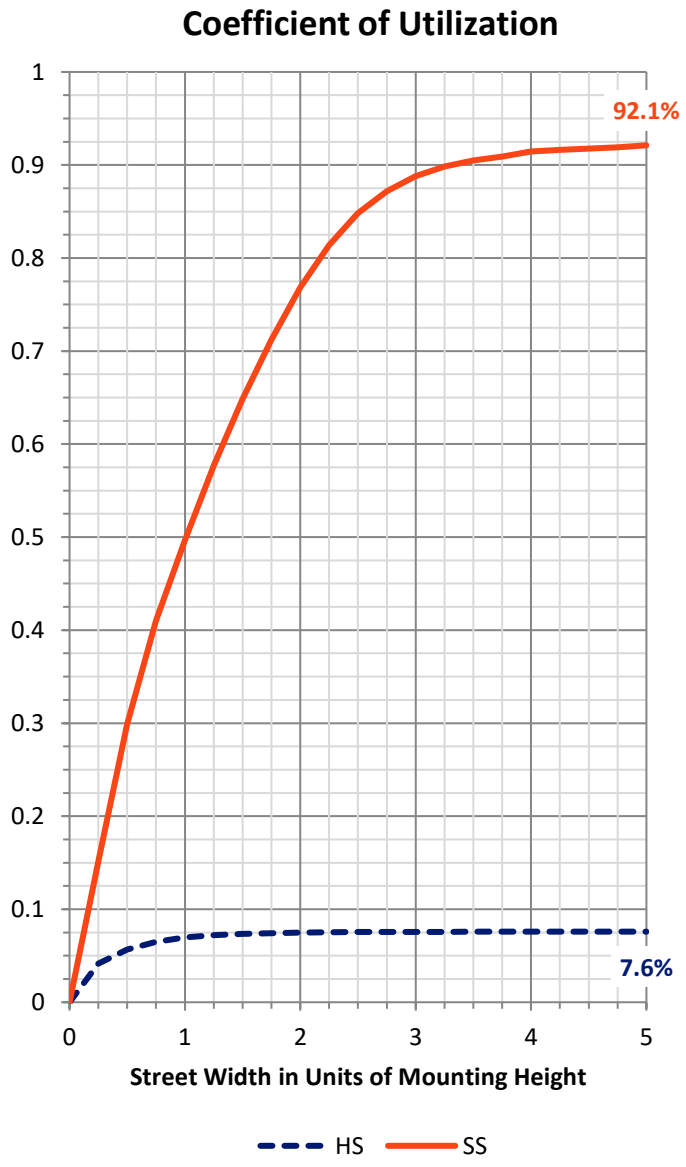
**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 3546.0 | 0.0 | 3546.0 |
| | % Fixture | 7.6 | 0.0 | 7.6 |
| **Street Side** | Lumens | 42912.3 | 0.0 | 42912.3 |
| | % Fixture | 92.4 | 0.0 | 92.4 |
| **Total** | Lumens | 46458.2 | 0.0 | 46458.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 790.5 | 1.7 |
| 10°-20° | 2256.8 | 4.9 |
| 20°-30° | 3546.5 | 7.6 |
| 30°-40° | 5562.4 | 12.0 |
| 40°-50° | 8314.1 | 17.9 |
| 50°-60° | 11060.4 | 23.8 |
| 60°-70° | 10692.0 | 23.0 |
| 70°-80° | 3843.4 | 8.3 |
| 80°-90° | 392.2 | 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° | 46458.2 | 100.0 |
| 0°-180° | 46458.2 | 100.0 |



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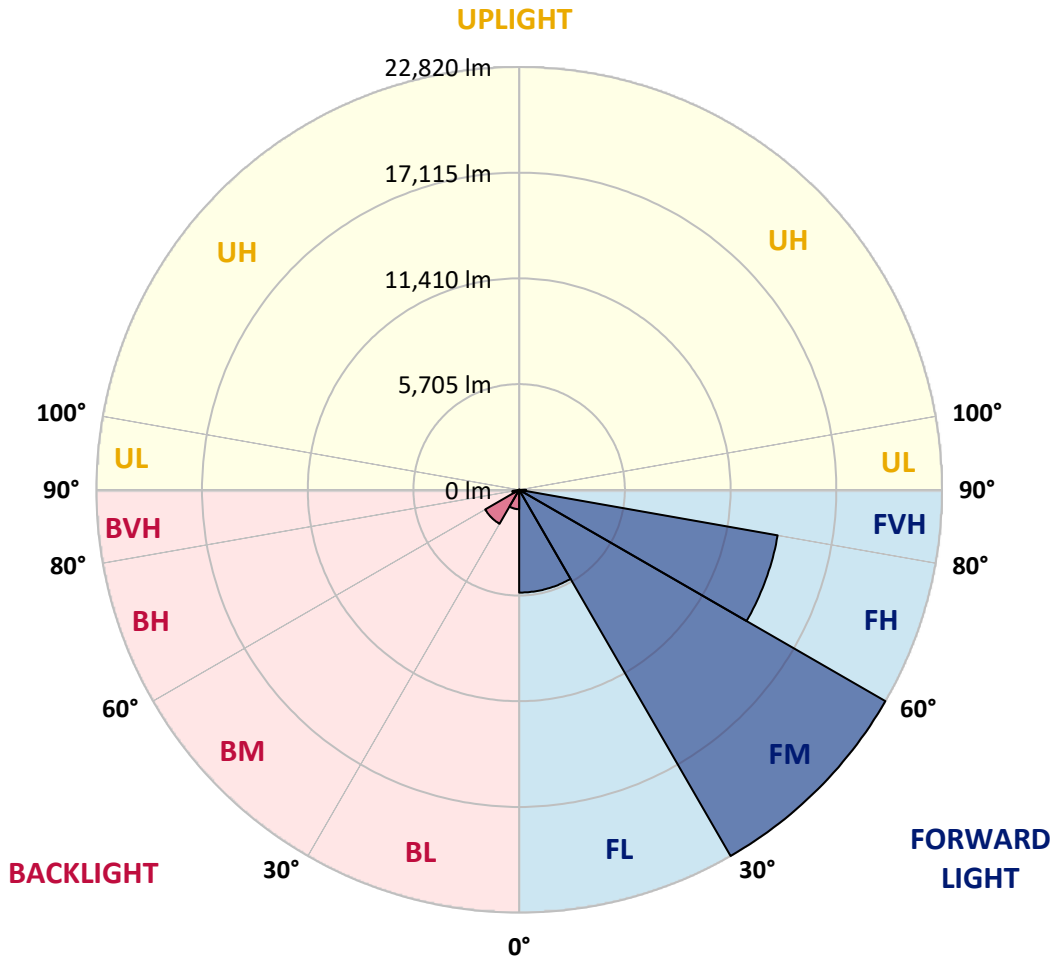
## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 5547.1 | 11.9 | | | |
| FM | (30°-60°) | 22820.3 | 49.1 | | | |
| FH | (60°-80°) | 14166.6 | 30.5 | | | G5 |
| FVH | (80°-90°) | 378.3 | 0.8 | | | G3/500 |
| BL | (0°-30°) | 1046.6 | 2.3 | B3/2500 | | |
| BM | (30°-60°) | 2116.6 | 4.6 | B2/2500 | | |
| BH | (60°-80°) | 368.8 | 0.8 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 13.9 | 0.0 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B3-U0-G5**
Type IV Short



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REPORT NUMBER: P1458881
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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 30° | 35° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 9161.0 | 9161.0 | 9161.0 | 9161.0 | *9161.0* | 9161.0 | 9161.0 | 9161.0 | 9161.0 | 9161.0 | 9161.0 |
| 2.5° | 11708.8 | 11708.8 | 11625.3 | 11513.9 | *11388.6* | 11346.8 | 11110.2 | 10776.0 | 10428.0 | 10024.2 | 9439.5 |
| 5° | 13212.5 | 13198.5 | 13031.5 | 13031.5 | *12864.4* | 12711.3 | 12474.6 | 11987.3 | 11430.4 | 10706.4 | 9690.1 |
| 7.5° | 13880.7 | 13908.6 | 13839.0 | 13839.0 | *13741.5* | 13630.1 | 13490.9 | 13017.5 | 12363.2 | 11388.6 | 9940.7 |
| 10° | 14117.4 | 14131.3 | 14131.3 | 14228.8 | *14201.0* | 14187.0 | 14173.1 | 13908.6 | 13226.4 | 12084.7 | 10205.2 |
| 12.5° | 13546.6 | 13616.2 | 13811.1 | 14242.7 | *14382.0* | 14535.1 | 14743.9 | 14660.4 | 14187.0 | 12961.9 | 10609.0 |
| 15° | 11708.8 | 11722.8 | 12265.7 | 13337.8 | *13908.6* | 14493.3 | 15300.8 | 15467.9 | 15161.6 | 13908.6 | 11026.6 |
| 17.5° | 9662.2 | 9704.0 | 10135.6 | 11332.9 | *12251.8* | 13602.3 | 15621.1 | 16303.3 | 16191.9 | 14841.4 | 11416.5 |
| 20° | 8812.9 | 8868.6 | 9077.5 | 9829.3 | *10525.4* | 11778.4 | 15300.8 | 17096.8 | 17138.6 | 15774.2 | 11778.4 |
| 22.5° | 8618.0 | 8659.8 | 8826.9 | 9411.6 | *9843.2* | 10678.6 | 14214.9 | 17723.4 | 18210.6 | 16846.2 | 12210.0 |
| 25° | 8562.3 | 8604.1 | 8854.7 | 9495.2 | *9898.9* | 10595.0 | 13226.4 | 18057.5 | 19477.6 | 17960.0 | 12627.7 |
| 27.5° | 8520.6 | 8576.3 | 8980.0 | 9801.4 | *10274.8* | 10943.1 | 13045.4 | 18127.1 | 20688.9 | 19143.5 | 13309.9 |
| 30° | 8576.3 | 8659.8 | 9188.9 | 10121.7 | *10664.6* | 11416.5 | 13477.0 | 18196.7 | 22025.4 | 20493.9 | 14173.1 |
| 32.5° | 8799.0 | 8868.6 | 9509.1 | 10553.3 | *11179.8* | 12029.1 | 14214.9 | 18614.4 | 23292.4 | 21872.3 | 14994.5 |
| 35° | 9049.6 | 9147.1 | 9912.8 | 11165.9 | *11917.7* | 12878.3 | 15217.3 | 19435.8 | 24503.6 | 23181.0 | 15843.8 |
| 37.5° | 9355.9 | 9467.3 | 10386.2 | 11862.0 | *12725.2* | 13811.1 | 16303.3 | 20577.5 | 25575.7 | 24253.0 | 16693.1 |
| 40° | 9773.6 | 9898.9 | 10929.2 | 12599.9 | *13532.7* | 14618.6 | 17375.3 | 21705.2 | 26397.1 | 24893.5 | 17250.0 |
| 42.5° | 11416.5 | 11583.5 | 12015.1 | 13323.8 | *14368.0* | 15481.8 | 18433.4 | 22777.2 | 26703.4 | 25102.3 | 17361.4 |
| 45° | 14479.4 | 14646.5 | 14535.1 | 14785.7 | *15481.8* | 16526.0 | 19589.0 | 23807.5 | 26745.1 | 25046.6 | 17305.7 |
| 47.5° | 17556.3 | 17751.2 | 17653.7 | 17514.5 | *17667.7* | 18168.9 | 20883.8 | 24461.9 | 26522.4 | 25018.8 | 17305.7 |
| 50° | 20493.9 | 20382.6 | 20396.5 | 20354.7 | *20493.9* | 20758.5 | 22136.8 | 24587.2 | 26466.7 | 25283.3 | 17458.8 |
| 52.5° | 22067.2 | 22122.9 | 22470.9 | 22986.1 | *23292.4* | 23556.9 | 23570.8 | 24782.1 | 26062.9 | 24837.8 | 17277.8 |
| 55° | 23612.6 | 23724.0 | 24531.5 | 25408.6 | *26090.8* | 26592.0 | 25004.8 | 24656.8 | 23654.3 | 23348.1 | 16331.1 |
| 57.5° | 25352.9 | 25506.0 | 26647.7 | 28457.6 | *29654.9* | 29919.5 | 26424.9 | 22317.8 | 20020.6 | 21217.9 | 14493.3 |
| 60° | 27747.6 | 27928.6 | 29446.1 | 32161.0 | *33943.1* | 33400.1 | 26536.3 | 18600.5 | 15899.5 | 17612.0 | 11959.4 |
| 62.5° | 29627.1 | 29989.1 | 32731.8 | 36964.3 | *38927.3* | 37201.0 | 24461.9 | 14256.7 | 11110.2 | 12377.1 | 8729.4 |
| 65° | 27622.3 | 28318.4 | 32787.5 | 42463.7 | *44733.0* | 41670.1 | 21204.0 | 9731.8 | 6265.1 | 8005.4 | 5582.9 |
| 67.5° | 22331.7 | 23306.3 | 29112.0 | 45136.8 | *48714.9* | 44023.0 | 16693.1 | 5165.3 | 3592.0 | 4650.1 | 2937.6 |
| 68° | *20549.6* | *21607.7* | *27761.5* | *45136.8* | *48923.7* | *43814.1* | *15495.8* | *4469.1* | *3313.6* | *4176.8* | *2547.8* |
| 70° | 14201.0 | 14952.8 | 21343.2 | 42602.9 | *47698.5* | 39943.7 | 10205.2 | 2561.7 | 2492.1 | 2868.0 | 1684.6 |
| 72.5° | 6961.3 | 7768.8 | 11416.5 | 33762.1 | *38857.7* | 30699.1 | 4650.1 | 1698.5 | 1893.5 | 2102.3 | 1322.6 |
| 75° | 2770.6 | 2937.6 | 4497.0 | 16651.3 | *24280.9* | 19589.0 | 2436.4 | 1280.9 | 1628.9 | 1642.9 | 1044.2 |
| 77.5° | 1587.2 | 1684.6 | 2492.1 | 6125.9 | *9105.3* | 8757.3 | 1573.2 | 918.9 | 1294.8 | 1183.4 | 682.2 |
| 80° | 891.0 | 905.0 | 1406.2 | 3230.0 | *5207.0* | 4664.0 | 1072.0 | 668.3 | 988.5 | 835.4 | 459.4 |
| 82.5° | 445.5 | 501.2 | 891.0 | 1782.1 | *2895.9* | 2965.5 | 570.8 | 473.4 | 793.6 | 598.7 | 375.9 |
| 85° | 320.2 | 348.1 | 640.4 | 988.5 | *1336.6* | 2004.8 | 348.1 | 236.7 | 598.7 | 403.8 | 264.5 |
| 87.5° | 167.1 | 208.8 | 403.8 | 487.3 | *543.0* | 682.2 | 167.1 | 111.4 | 334.1 | 236.7 | 139.2 |
| 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: P1458881
CATALOG NUMBER: GLAN-SB8C-760-U-T4LG-HSS

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 9161.0 | 9161.0 | 9161.0 | 9161.0 | 9161.0 | 9161.0 | 9161.0 | 9161.0 | 9161.0 | 9161.0 | 9161.0 |
| 2.5° | 9161.0 | 8840.8 | 8186.4 | 7420.7 | 6822.0 | 6209.4 | 5708.2 | 5234.9 | 5012.1 | 4984.3 | 5039.9 |
| 5° | 9119.2 | 8423.1 | 6933.4 | 5471.5 | 4274.2 | 3438.9 | 2979.4 | 2742.7 | 2617.4 | 2561.7 | 2575.7 |
| 7.5° | 9035.7 | 7977.6 | 5596.8 | 3703.4 | 2770.6 | 2408.6 | 2297.2 | 2255.4 | 2241.5 | 2241.5 | 2241.5 |
| 10° | 8952.2 | 7378.9 | 4288.1 | 2714.9 | 2269.4 | 2171.9 | 2144.1 | 2144.1 | 2130.1 | 2130.1 | 2144.1 |
| 12.5° | 8910.4 | 6822.0 | 3327.5 | 2269.4 | 2116.2 | 2074.5 | 2046.6 | 2032.7 | 2032.7 | 2032.7 | 2046.6 |
| 15° | 8812.9 | 6209.4 | 2687.0 | 2102.3 | 2018.8 | 1963.1 | 1949.2 | 1935.2 | 1935.2 | 1935.2 | 1935.2 |
| 17.5° | 8729.4 | 5610.8 | 2339.0 | 1990.9 | 1921.3 | 1865.6 | 1851.7 | 1837.8 | 1837.8 | 1851.7 | 1851.7 |
| 20° | 8604.1 | 5039.9 | 2102.3 | 1879.5 | 1823.8 | 1768.2 | 1754.2 | 1740.3 | 1754.2 | 1754.2 | 1754.2 |
| 22.5° | 8451.0 | 4566.6 | 1963.1 | 1796.0 | 1726.4 | 1670.7 | 1670.7 | 1670.7 | 1670.7 | 1670.7 | 1684.6 |
| 25° | 8353.5 | 4232.4 | 1865.6 | 1698.5 | 1628.9 | 1587.2 | 1573.2 | 1573.2 | 1601.1 | 1601.1 | 1615.0 |
| 27.5° | 8506.7 | 4148.9 | 1879.5 | 1670.7 | 1545.4 | 1503.6 | 1489.7 | 1489.7 | 1517.6 | 1531.5 | 1545.4 |
| 30° | 8966.1 | 4302.1 | 2046.6 | 1754.2 | 1489.7 | 1420.1 | 1406.2 | 1406.2 | 1447.9 | 1461.9 | 1475.8 |
| 32.5° | 9495.2 | 4622.3 | 2297.2 | 1865.6 | 1447.9 | 1336.6 | 1308.7 | 1308.7 | 1350.5 | 1364.4 | 1378.3 |
| 35° | 10219.1 | 5123.5 | 2631.4 | 1963.1 | 1475.8 | 1253.0 | 1197.3 | 1197.3 | 1225.2 | 1253.0 | 1266.9 |
| 37.5° | 11151.9 | 5944.9 | 3021.2 | 2032.7 | 1475.8 | 1155.6 | 1086.0 | 1072.0 | 1099.9 | 1099.9 | 1113.8 |
| 40° | 12126.5 | 7016.9 | 3424.9 | 2032.7 | 1406.2 | 1058.1 | 988.5 | 946.7 | 960.7 | 946.7 | 960.7 |
| 42.5° | 12669.5 | 7880.1 | 3773.0 | 1907.4 | 1322.6 | 960.7 | 891.0 | 835.4 | 821.4 | 793.6 | 807.5 |
| 45° | 12975.8 | 8270.0 | 3675.5 | 1768.2 | 1239.1 | 891.0 | 807.5 | 737.9 | 710.0 | 668.3 | 668.3 |
| 47.5° | 12975.8 | 8311.7 | 3146.5 | 1656.8 | 1155.6 | 835.4 | 724.0 | 654.4 | 612.6 | 570.8 | 584.7 |
| 50° | 12822.6 | 7935.8 | 2492.1 | 1545.4 | 1058.1 | 779.7 | 654.4 | 598.7 | 543.0 | 515.1 | 515.1 |
| 52.5° | 12182.2 | 6710.7 | 1907.4 | 1406.2 | 946.7 | 710.0 | 584.7 | 529.1 | 473.4 | 459.4 | 459.4 |
| 55° | 11082.3 | 4928.6 | 1545.4 | 1266.9 | 849.3 | 654.4 | 529.1 | 487.3 | 431.6 | 403.8 | 403.8 |
| 57.5° | 9007.9 | 3369.2 | 1280.9 | 1141.6 | 751.8 | 584.7 | 473.4 | 431.6 | 362.0 | 334.1 | 334.1 |
| 60° | 6682.8 | 2199.8 | 1086.0 | 1002.4 | 640.4 | 529.1 | 417.7 | 362.0 | 306.3 | 278.5 | 264.5 |
| 62.5° | 4510.9 | 1489.7 | 905.0 | 793.6 | 543.0 | 459.4 | 362.0 | 306.3 | 236.7 | 181.0 | 181.0 |
| 65° | 2812.3 | 1155.6 | 751.8 | 626.5 | 473.4 | 403.8 | 306.3 | 236.7 | 167.1 | 125.3 | 111.4 |
| 67.5° | 1615.0 | 932.8 | 612.6 | 487.3 | 403.8 | 320.2 | 236.7 | 194.9 | 139.2 | 97.5 | 83.5 |
| 68° | *1489.7* | *891.0* | *570.8* | *459.4* | *375.9* | *306.3* | *222.8* | *181.0* | *125.3* | *83.5* | *83.5* |
| 70° | 1211.3 | 793.6 | 487.3 | 375.9 | 320.2 | 250.6 | 194.9 | 153.1 | 97.5 | 55.7 | 55.7 |
| 72.5° | 1072.0 | 668.3 | 417.7 | 292.4 | 222.8 | 208.8 | 153.1 | 111.4 | 69.6 | 41.8 | 27.8 |
| 75° | 877.1 | 529.1 | 334.1 | 222.8 | 153.1 | 153.1 | 111.4 | 69.6 | 27.8 | 0.0 | 0.0 |
| 77.5° | 570.8 | 389.8 | 264.5 | 139.2 | 83.5 | 97.5 | 69.6 | 27.8 | 0.0 | 0.0 | 0.0 |
| 80° | 375.9 | 292.4 | 181.0 | 69.6 | 41.8 | 41.8 | 13.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 264.5 | 194.9 | 111.4 | 27.8 | 13.9 | 13.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 167.1 | 83.5 | 41.8 | 13.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 69.6 | 27.8 | 13.9 | 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

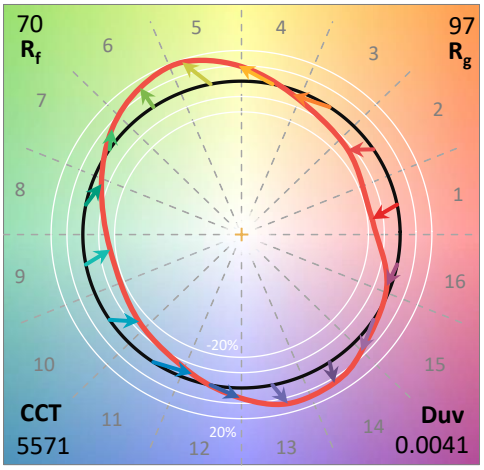
## Test Information

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

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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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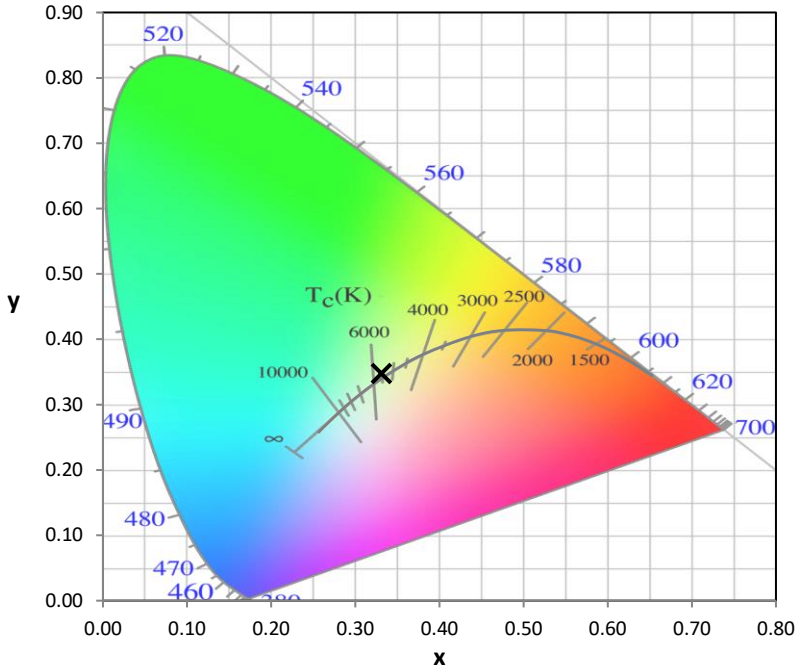
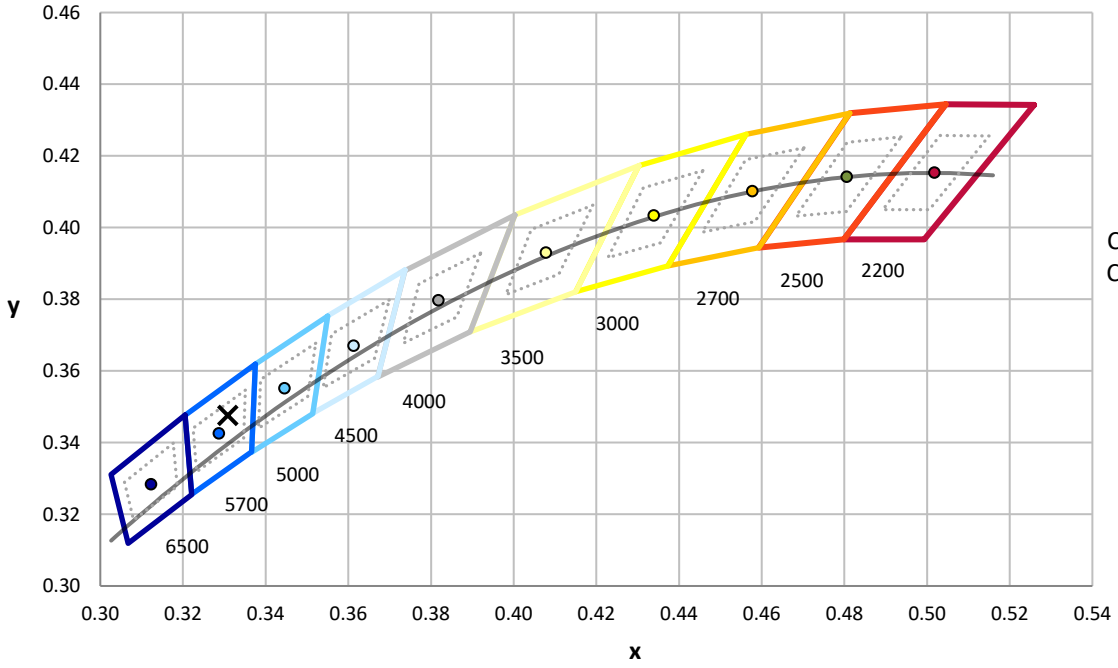
## CIE 1931 Chromaticity Diagram




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




CCT = 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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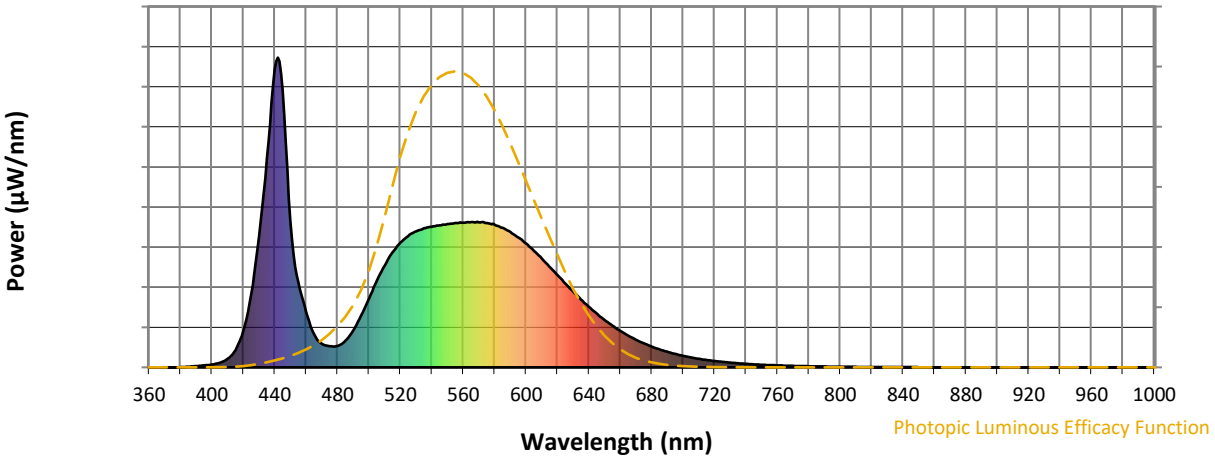
## Photopic Flux vs. Wavelength




## 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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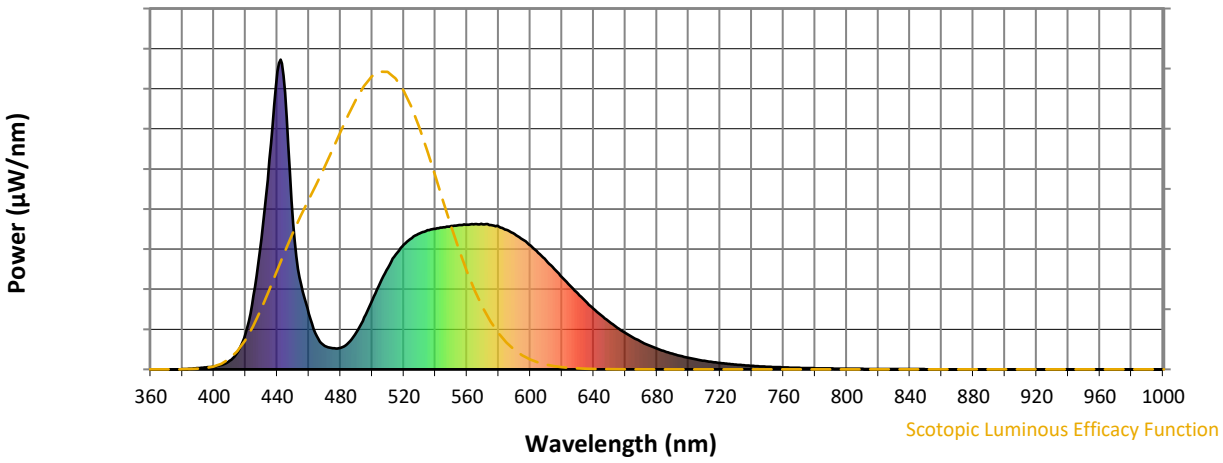
## Scotopic Flux vs. Wavelength




**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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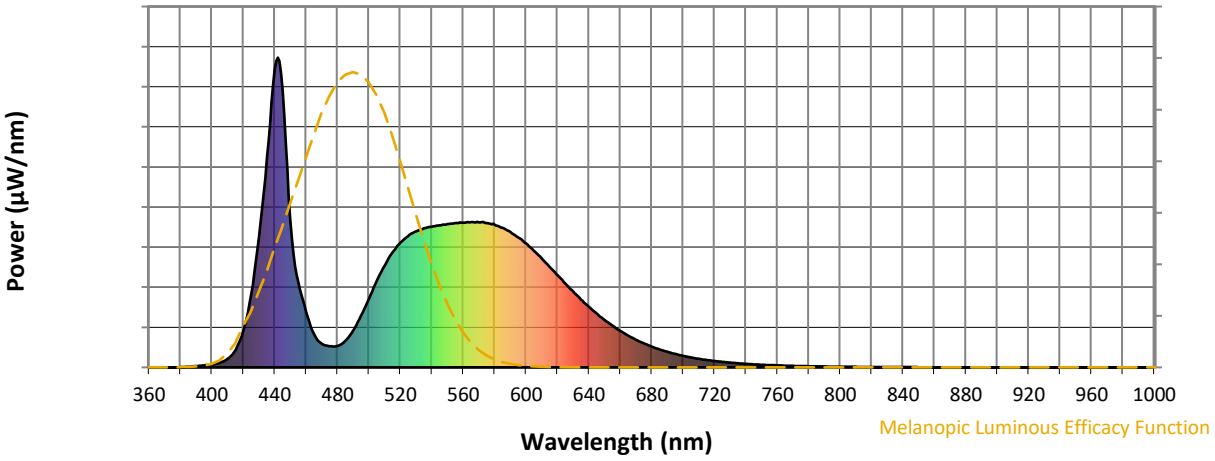
## Melanopic Flux vs. Wavelength




**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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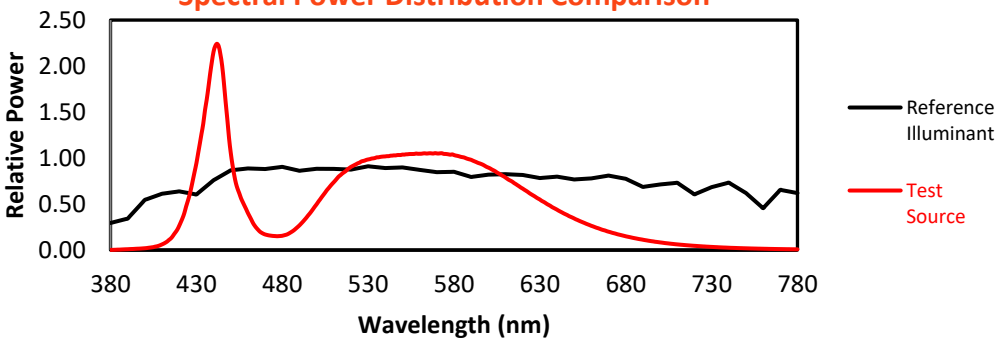
# TM-30-18

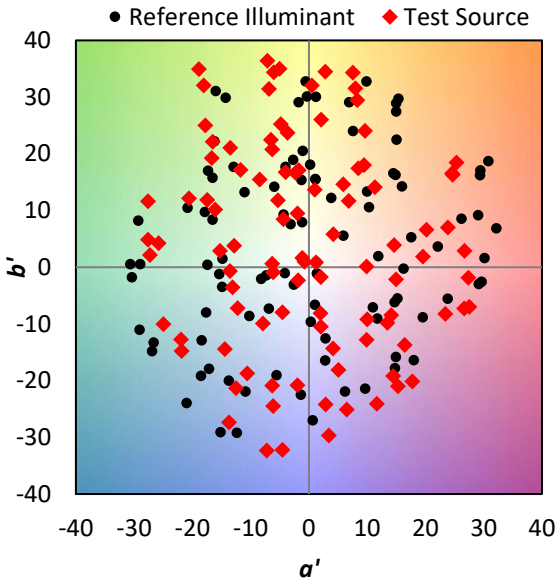
## Summary

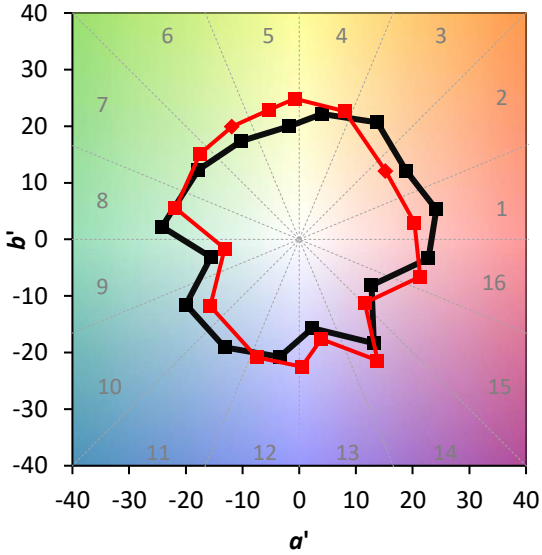
$R_f$ = 70.4
$R_g$ = 97.1
CIE $R_a$ = 69.9
$R_9$ = -35.4

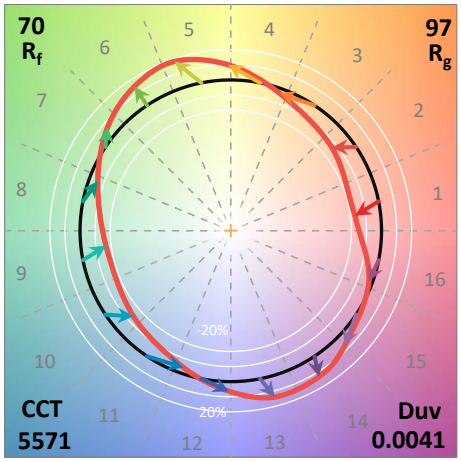
## Spectral Power Distribution Comparison

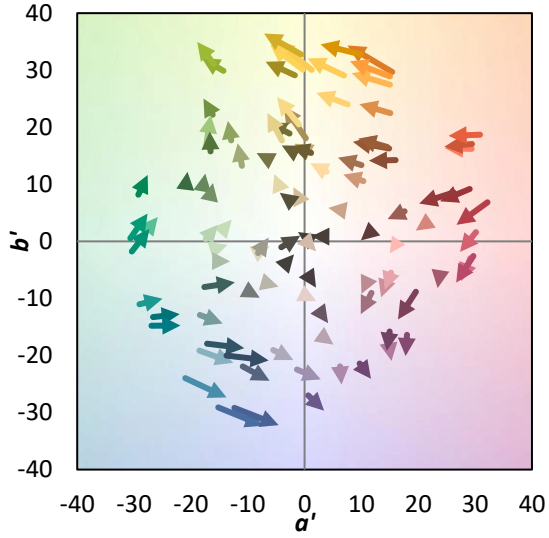



## Color Vector Graphics



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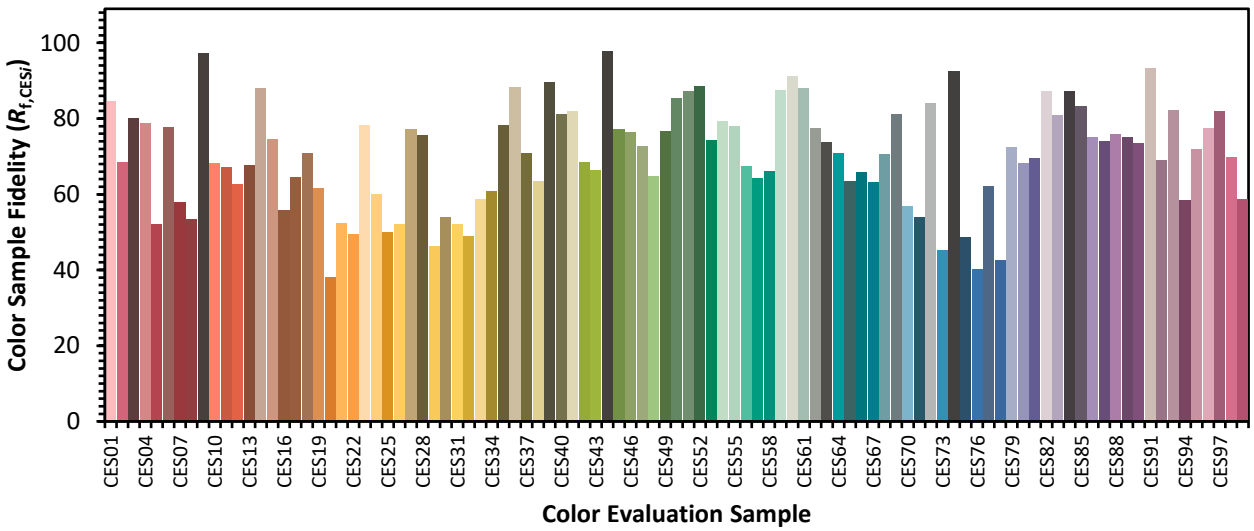
**Individual Sample Fidelity Index ($R_{f,i}$)**

| | | | |
|---|---|---|---|
| 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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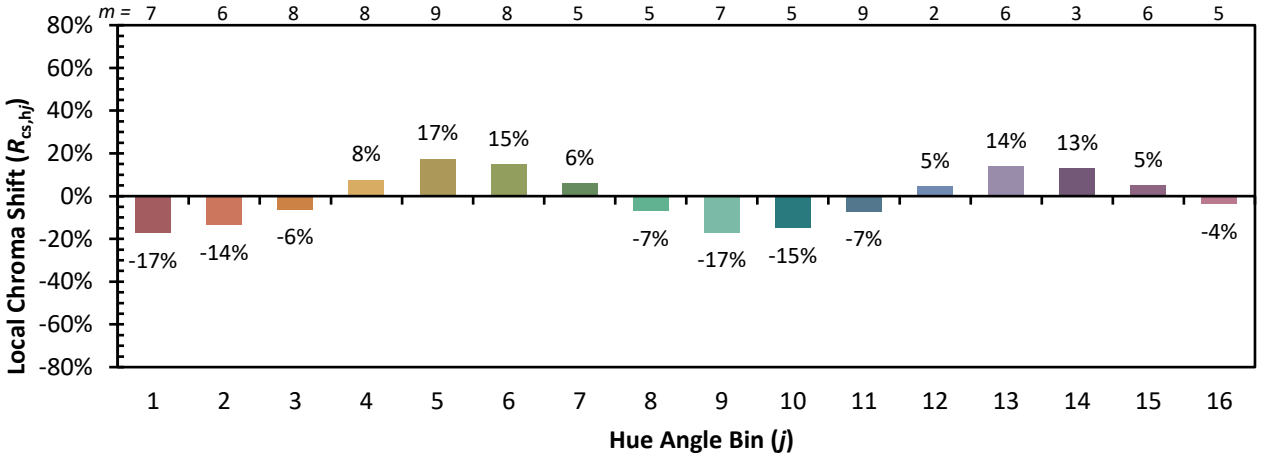
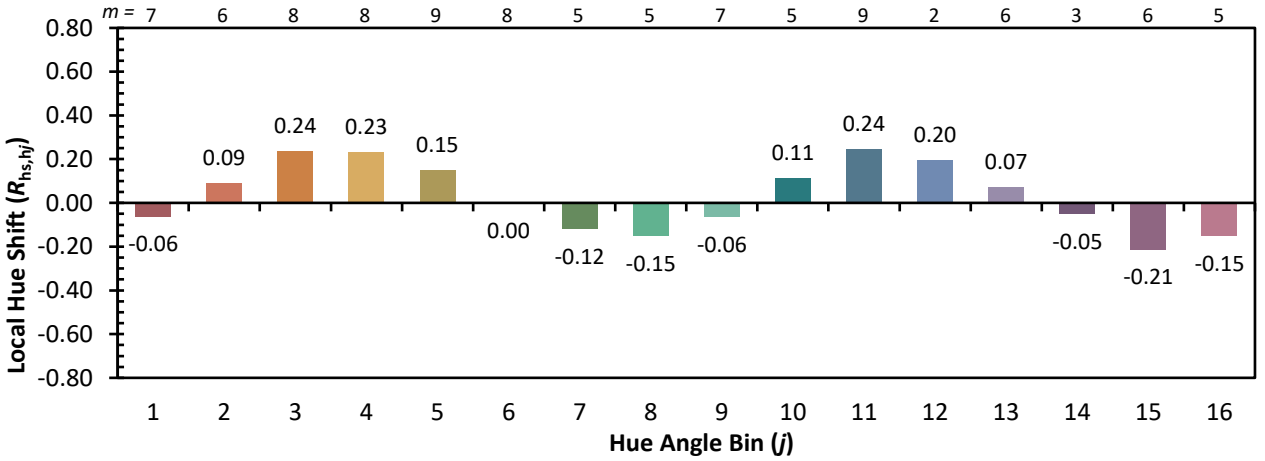
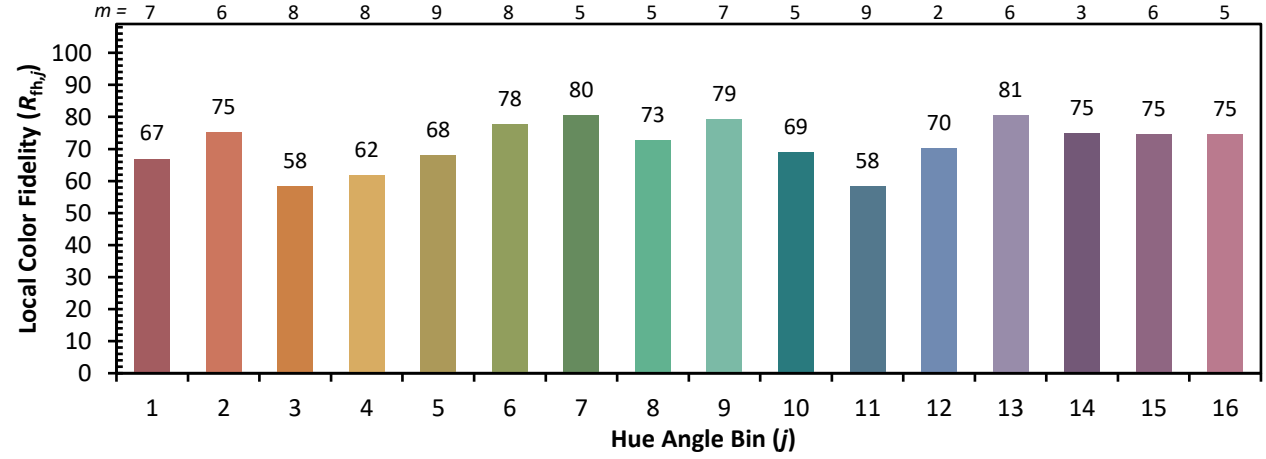
## Color Rendition by Hue-Angle Bin



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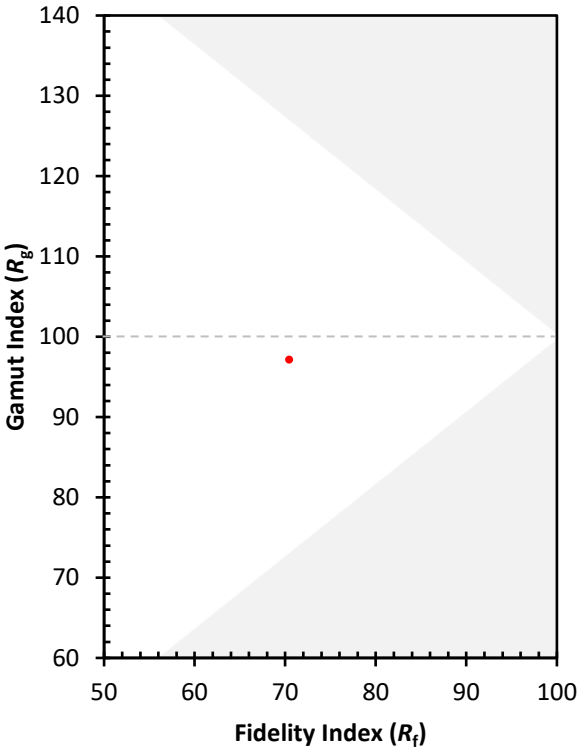
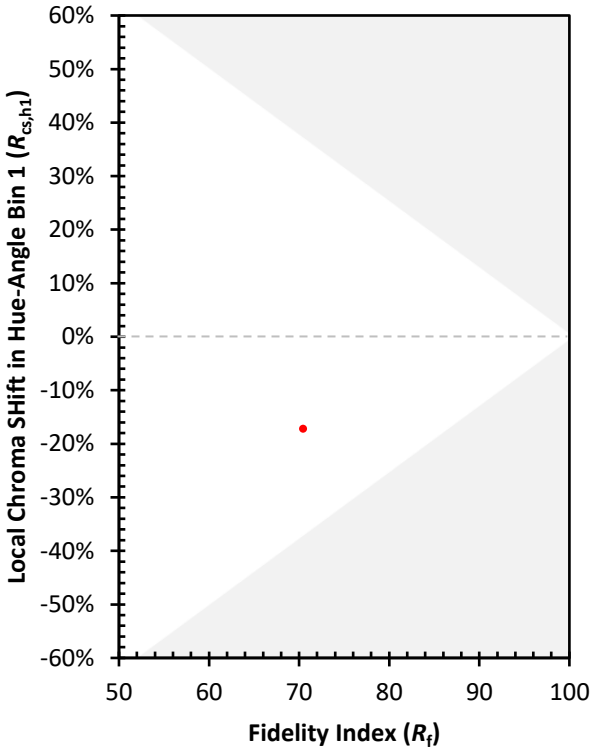
## Measure Comparisons




(END OF REPORT)