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: P1363083

Luminaire Tested: **GSS-SB6A-735-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: | P1363083 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 02/18/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB6A-735-U-SL2-HSS |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 6SQUARE 170W 70CRI 3500K FIXTURE w/ TYPE II SPILL CONTROL DISTRIBUTION OPTIC AND HOUSE SIDE SHIELD |
| Light Source: | (156) 3500K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 21634.7 lumens |
| Efficiency: | N/A |
| Efficacy: | 127.3 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1' x H: 0') |
| IES Classification: | Type II - Medium |
| BUG Rating: | B2 - U0 - G3 |

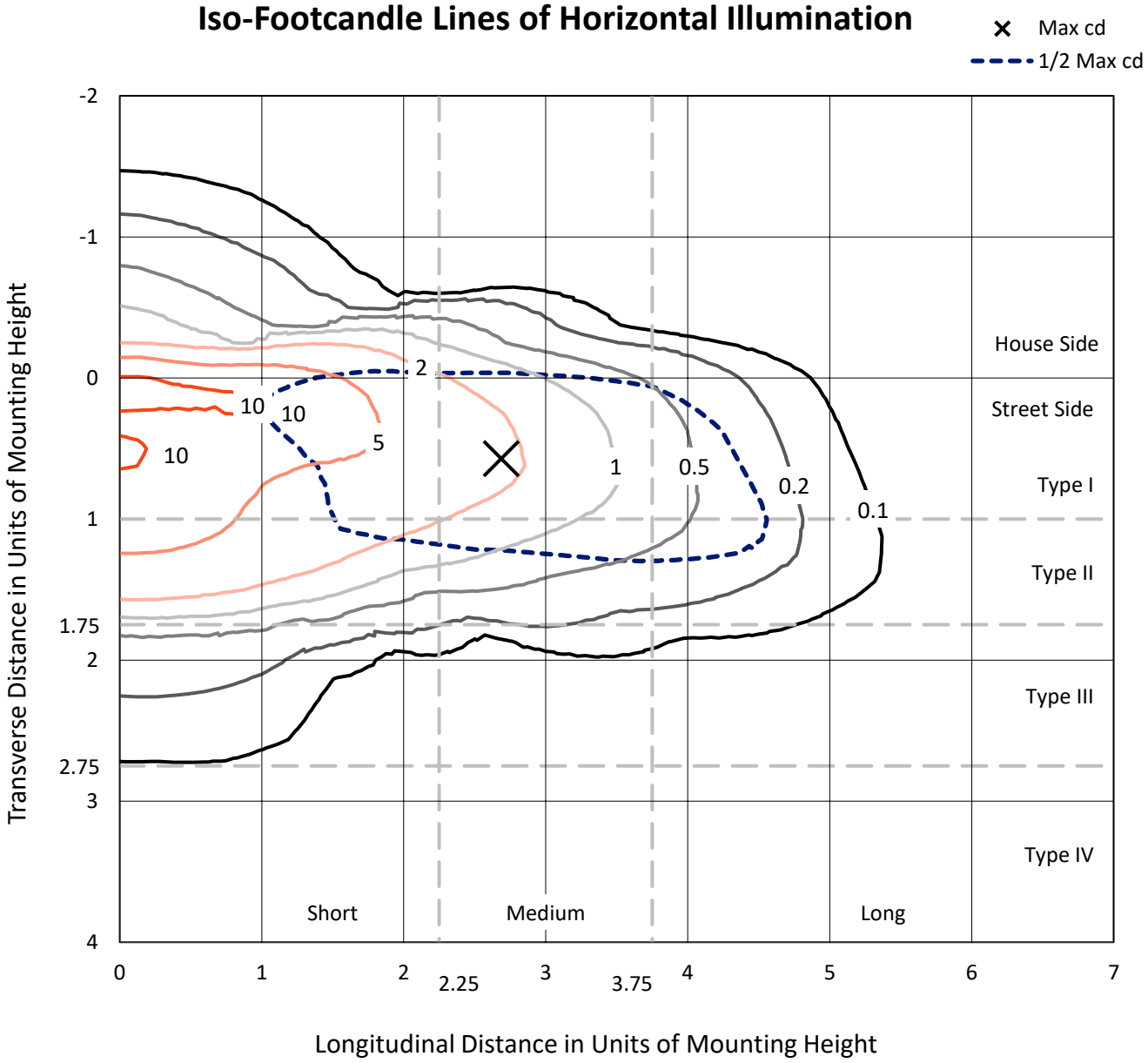
| | |
|---|---|
| Input Watts (W): | 170 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 12.0% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

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Scaled Data Report

REPORT NUMBER: P1363083
CATALOG NUMBER: GSS-SB6A-735-U-SL2-HSS

## Iso-Footcandle Lines of Horizontal Illumination



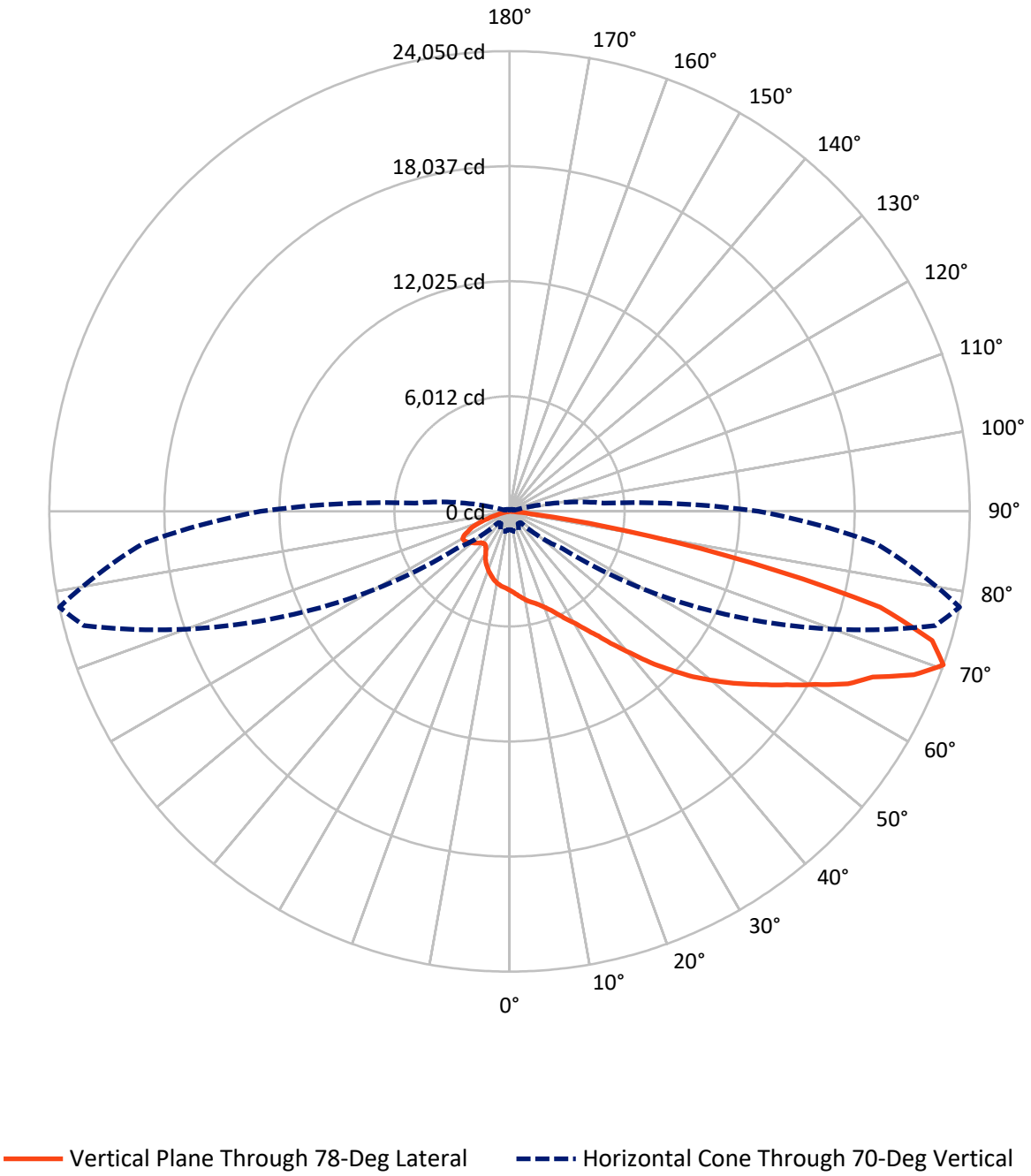

Based on 20 foot mounting height. Maximum calculated value = 12.4 fc
Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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Scaled Data Report

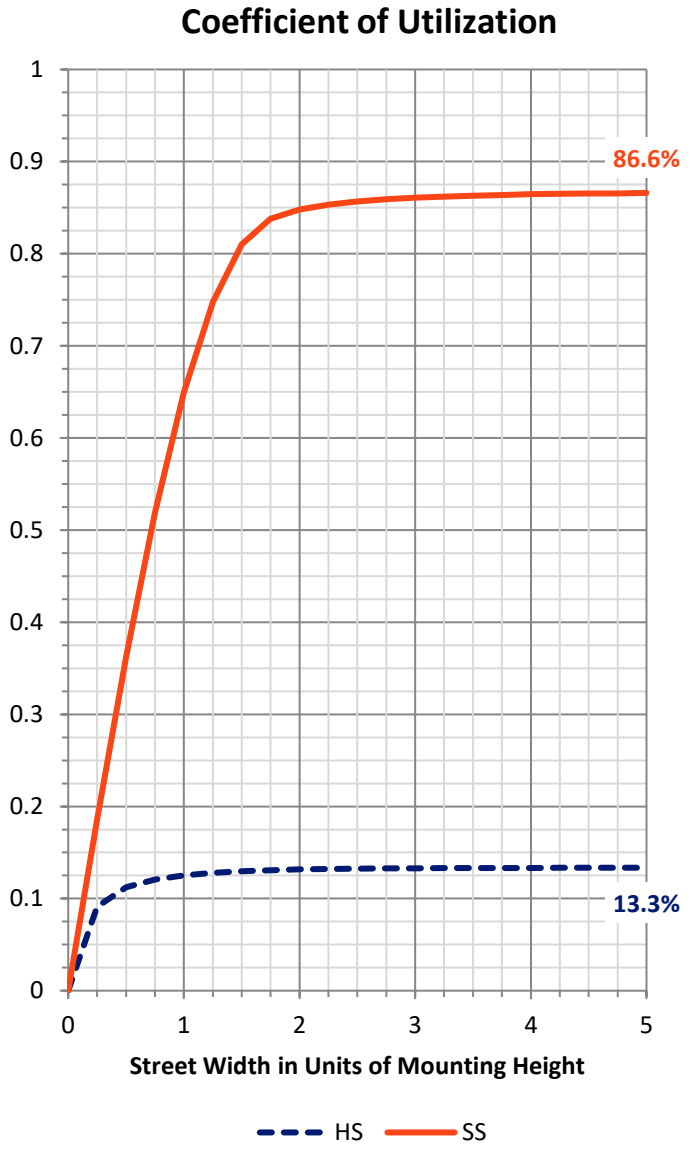
REPORT NUMBER: P1363083
CATALOG NUMBER: GSS-SB6A-735-U-SL2-HSS

**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 2910.0 | 0.0 | 2910.0 |
| | % Fixture | 13.5 | 0.0 | 13.5 |
| **Street Side** | Lumens | 18724.8 | 0.0 | 18724.8 |
| | % Fixture | 86.5 | 0.0 | 86.5 |
| **Total** | Lumens | 21634.7 | 0.0 | 21634.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 377.1 | 1.7 |
| 10°-20° | 934.2 | 4.3 |
| 20°-30° | 1549.7 | 7.2 |
| 30°-40° | 2470.4 | 11.4 |
| 40°-50° | 3770.0 | 17.4 |
| 50°-60° | 5019.8 | 23.2 |
| 60°-70° | 4685.9 | 21.7 |
| 70°-80° | 2649.9 | 12.2 |
| 80°-90° | 177.7 | 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° | 21634.7 | 100.0 |
| 0°-180° | 21634.7 | 100.0 |



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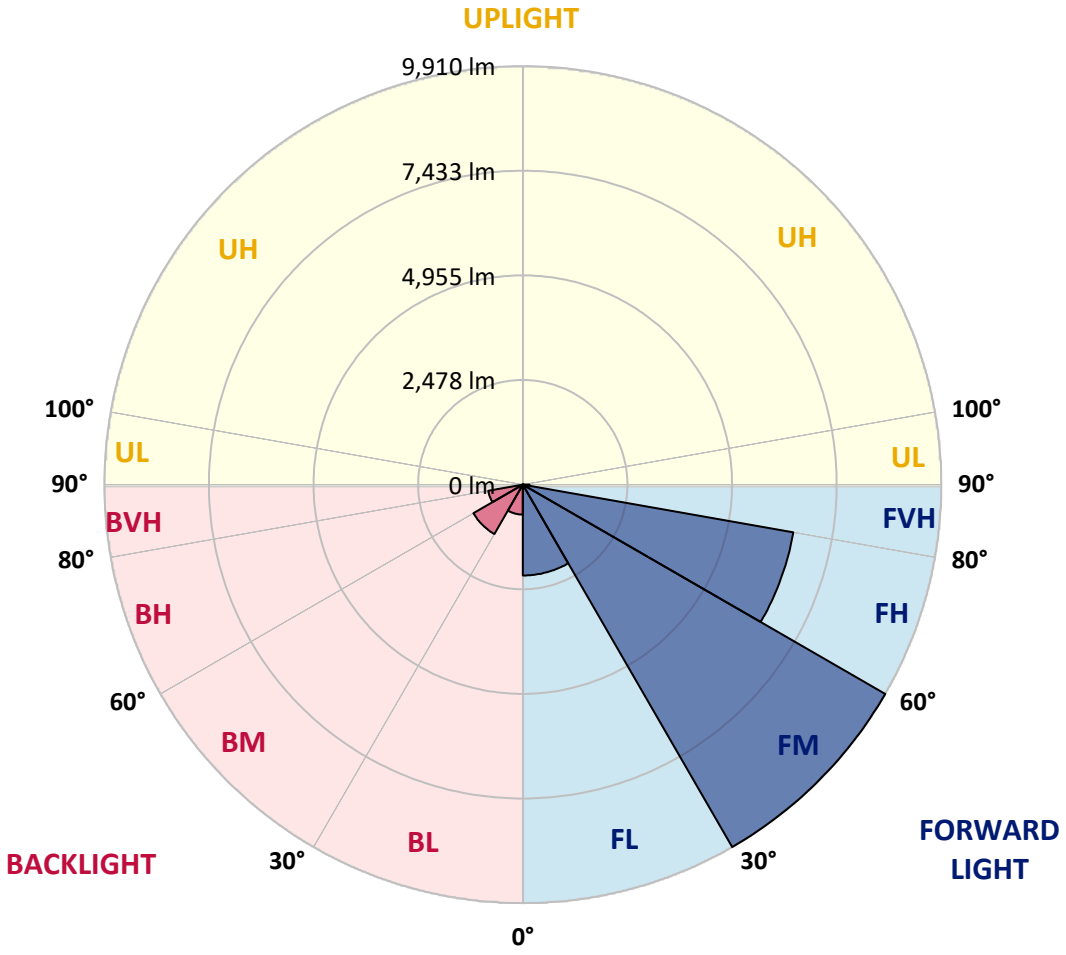
Scaled Data Report

REPORT NUMBER: P1363083
CATALOG NUMBER: GSS-SB6A-735-U-SL2-HSS

## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 2151.3 | 9.9 | | | |
| FM | (30°-60°) | 9910.5 | 45.8 | | | |
| FH | (60°-80°) | 6505.2 | 30.1 | | | G3/7500 |
| FVH | (80°-90°) | 157.8 | 0.7 | | | G2/225 |
| BL | (0°-30°) | 709.8 | 3.3 | B2/1000 | | |
| BM | (30°-60°) | 1349.7 | 6.2 | B2/2500 | | |
| BH | (60°-80°) | 830.6 | 3.8 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 19.9 | 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-G3**
Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 78° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 4133.6 | 4133.6 | 4133.6 | 4133.6 | 4133.6 | 4133.6 | 4133.6 | 4133.6 | 4133.6 | *4133.6* | 4133.6 |
| 2.5° | 4654.8 | 4588.1 | 4588.1 | 4557.8 | 4527.5 | 4473.0 | 4406.3 | 4333.6 | 4273.0 | *4242.7* | 4194.2 |
| 5° | 4988.2 | 4970.0 | 4963.9 | 4915.4 | 4867.0 | 4788.2 | 4703.3 | 4563.9 | 4436.6 | *4394.2* | 4285.1 |
| 7.5° | 4976.1 | 4963.9 | 4988.2 | 5048.8 | 5091.2 | 5060.9 | 4988.2 | 4818.5 | 4618.5 | *4545.7* | 4382.1 |
| 10° | 4600.3 | 4563.9 | 4648.8 | 4782.1 | 4976.1 | 5176.1 | 5206.4 | 5042.7 | 4788.2 | *4703.3* | 4473.0 |
| 12.5° | 4260.9 | 4260.9 | 4303.3 | 4424.5 | 4666.9 | 5024.5 | 5303.3 | 5248.8 | 4957.9 | *4854.8* | 4551.8 |
| 15° | 4218.4 | 4188.1 | 4200.2 | 4254.8 | 4424.5 | 4776.0 | 5242.7 | 5406.4 | 5115.5 | *4976.1* | 4624.5 |
| 17.5° | 4412.4 | 4376.0 | 4345.7 | 4321.5 | 4345.7 | 4576.0 | 5054.8 | 5539.7 | 5303.3 | *5151.8* | 4721.5 |
| 20° | 4715.4 | 4715.4 | 4636.6 | 4539.7 | 4460.9 | 4503.3 | 4903.3 | 5624.6 | 5527.6 | *5364.0* | 4867.0 |
| 22.5° | 5151.8 | 5097.3 | 5048.8 | 4897.3 | 4703.3 | 4612.4 | 4836.6 | 5715.5 | 5836.7 | *5636.7* | 5067.0 |
| 25° | 5515.5 | 5533.7 | 5479.1 | 5291.2 | 5018.5 | 4818.5 | 4891.2 | 5751.9 | 6188.2 | *5988.2* | 5315.5 |
| 27.5° | 5927.6 | 5909.4 | 5861.0 | 5673.1 | 5357.9 | 5073.0 | 5042.7 | 5824.6 | 6594.3 | *6382.2* | 5606.4 |
| 30° | 6309.5 | 6309.5 | 6248.9 | 6036.7 | 5715.5 | 5406.4 | 5267.0 | 5945.8 | 7000.4 | *6806.5* | 5933.7 |
| 32.5° | 6733.7 | 6739.8 | 6618.6 | 6394.3 | 6067.0 | 5715.5 | 5551.8 | 6127.6 | 7503.5 | *7358.0* | 6376.1 |
| 35° | 7079.2 | 7091.3 | 7061.0 | 6818.6 | 6388.3 | 6036.7 | 5848.8 | 6412.5 | 8091.4 | *8006.5* | 6964.0 |
| 37.5° | 7345.9 | 7364.1 | 7303.5 | 7194.4 | 6794.3 | 6345.8 | 6164.0 | 6764.0 | 8800.5 | *8855.1* | 7727.7 |
| 40° | 7655.0 | 7655.0 | 7655.0 | 7491.4 | 7194.4 | 6685.2 | 6485.2 | 7200.4 | 9564.2 | *9733.9* | 8576.3 |
| 42.5° | 7927.7 | 7945.9 | 7976.2 | 7848.9 | 7576.2 | 7170.1 | 6879.2 | 7691.4 | 10418.8 | *10800.6* | 9624.8 |
| 45° | 8067.1 | 8103.5 | 8212.6 | 8158.1 | 7952.0 | 7558.0 | 7297.4 | 8170.2 | 11358.2 | *11831.0* | 10752.2 |
| 47.5° | 8152.0 | 8194.4 | 8339.9 | 8406.6 | 8321.7 | 7855.0 | 7691.4 | 8739.9 | 12255.3 | *12909.9* | 11909.8 |
| 50° | 8218.7 | 8279.3 | 8442.9 | 8570.2 | 8649.0 | 8103.5 | 8079.3 | 9321.8 | 13152.3 | *13922.0* | 12964.4 |
| 52.5° | 8024.7 | 8085.3 | 8394.4 | 8800.5 | 8867.2 | 8479.3 | 8485.3 | 9952.1 | 14061.4 | *14952.4* | 13940.2 |
| 55° | 7333.8 | 7376.2 | 7806.5 | 8624.8 | 9127.8 | 8915.7 | 9036.9 | 10770.3 | 15055.4 | *15976.7* | 14873.6 |
| 57.5° | 5218.5 | 5479.1 | 6242.8 | 7539.8 | 8806.6 | 9540.0 | 9921.8 | 11673.4 | 16213.1 | *17098.0* | 15819.1 |
| 60° | 2169.8 | 2357.7 | 3097.2 | 5382.1 | 7618.6 | 9624.8 | 11140.1 | 13158.4 | 17528.3 | *18370.8* | 16891.9 |
| 62.5° | 1412.2 | 1430.4 | 1503.1 | 2309.2 | 4836.6 | 8442.9 | 11606.7 | 15261.5 | 19383.0 | *19849.7* | 17479.8 |
| 65° | 1260.7 | 1284.9 | 1321.3 | 1436.4 | 1781.9 | 5697.3 | 10030.9 | 15970.6 | 20892.1 | *20861.8* | 17146.5 |
| 67.5° | 1121.3 | 1151.6 | 1218.3 | 1230.4 | 994.0 | 2097.1 | 6739.8 | 14928.2 | 22461.9 | *22789.2* | 18055.6 |
| 70° | *957.6* | *969.8* | *1091.0* | *1103.1* | *781.9* | *824.3* | *3394.1* | *12958.3* | *23043.8* | *24049.9* | *19219.3* |
| 72.5° | 666.7 | 703.1 | 921.3 | 969.8 | 624.3 | 533.4 | 1236.4 | 9430.9 | 21419.4 | *23092.3* | 19146.6 |
| 75° | 394.0 | 412.1 | 527.3 | 660.6 | 484.9 | 375.8 | 557.6 | 5800.3 | 18431.4 | *20001.2* | 17037.4 |
| 77.5° | 284.9 | 303.0 | 381.8 | 515.2 | 309.1 | 254.6 | 345.5 | 3030.5 | 12800.8 | *12867.4* | 9618.7 |
| 80° | 90.9 | 103.0 | 236.4 | 345.5 | 224.3 | 163.6 | 212.1 | 1024.3 | 6467.0 | *6103.4* | 2939.6 |
| 82.5° | 48.5 | 48.5 | 145.5 | 181.8 | 139.4 | 103.0 | 121.2 | 424.3 | 2072.8 | *1327.4* | 466.7 |
| 85° | 24.2 | 24.2 | 60.6 | 72.7 | 54.5 | 48.5 | 60.6 | 151.5 | 218.2 | *200.0* | 133.3 |
| 87.5° | 0.0 | 0.0 | 6.1 | 6.1 | 6.1 | 12.1 | 24.2 | 42.4 | 54.5 | *54.5* | 60.6 |
| 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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Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1363083
CATALOG NUMBER: GSS-SB6A-735-U-SL2-HSS

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 4133.6 | 4133.6 | 4133.6 | 4133.6 | 4133.6 | 4133.6 | 4133.6 | 4133.6 | 4133.6 | 4133.6 | 4133.6 |
| 2.5° | 4139.6 | 4091.2 | 4018.4 | 3933.6 | 3873.0 | 3788.1 | 3715.4 | 3685.1 | 3630.5 | 3618.4 | 3606.3 |
| 5° | 4182.1 | 4085.1 | 3921.4 | 3733.6 | 3569.9 | 3376.0 | 3218.4 | 3097.2 | 3012.3 | 2975.9 | 2957.8 |
| 7.5° | 4248.7 | 4091.2 | 3824.5 | 3515.4 | 3218.4 | 2927.4 | 2636.5 | 2412.3 | 2285.0 | 2163.8 | 2169.8 |
| 10° | 4285.1 | 4097.2 | 3697.2 | 3266.9 | 2824.4 | 2375.9 | 1939.5 | 1606.2 | 1430.4 | 1327.4 | 1303.1 |
| 12.5° | 4315.4 | 4066.9 | 3551.7 | 2957.8 | 2327.4 | 1684.9 | 1248.6 | 1030.4 | 939.4 | 927.3 | 921.3 |
| 15° | 4333.6 | 4030.5 | 3369.9 | 2600.2 | 1763.7 | 1139.5 | 927.3 | 866.7 | 842.5 | 836.4 | 836.4 |
| 17.5° | 4376.0 | 3988.1 | 3182.0 | 2157.7 | 1224.3 | 909.1 | 830.4 | 800.0 | 781.9 | 775.8 | 775.8 |
| 20° | 4448.7 | 3994.2 | 2988.1 | 1672.8 | 951.6 | 830.4 | 769.7 | 739.4 | 715.2 | 715.2 | 715.2 |
| 22.5° | 4570.0 | 4018.4 | 2739.6 | 1254.6 | 836.4 | 757.6 | 703.1 | 666.7 | 654.6 | 660.6 | 660.6 |
| 25° | 4733.6 | 4079.0 | 2485.0 | 969.8 | 769.7 | 684.9 | 630.3 | 600.0 | 594.0 | 600.0 | 600.0 |
| 27.5° | 4939.7 | 4145.7 | 2169.8 | 836.4 | 709.1 | 624.3 | 569.7 | 551.5 | 545.5 | 557.6 | 557.6 |
| 30° | 5163.9 | 4224.5 | 1794.0 | 769.7 | 654.6 | 575.8 | 527.3 | 509.1 | 509.1 | 527.3 | 527.3 |
| 32.5° | 5479.1 | 4351.8 | 1454.6 | 715.2 | 612.2 | 539.4 | 490.9 | 472.8 | 478.8 | 497.0 | 497.0 |
| 35° | 5903.4 | 4515.4 | 1194.0 | 678.8 | 581.9 | 509.1 | 466.7 | 442.5 | 448.5 | 454.6 | 460.6 |
| 37.5° | 6454.9 | 4739.7 | 1030.4 | 654.6 | 551.5 | 490.9 | 436.4 | 418.2 | 418.2 | 424.3 | 424.3 |
| 40° | 7073.1 | 5006.4 | 951.6 | 636.4 | 527.3 | 460.6 | 412.1 | 387.9 | 387.9 | 400.0 | 400.0 |
| 42.5° | 7861.1 | 5291.2 | 891.0 | 612.2 | 497.0 | 436.4 | 381.8 | 363.7 | 357.6 | 369.7 | 369.7 |
| 45° | 8770.2 | 5703.4 | 854.6 | 587.9 | 466.7 | 406.1 | 357.6 | 333.4 | 327.3 | 333.4 | 339.4 |
| 47.5° | 9691.5 | 6139.8 | 818.2 | 557.6 | 448.5 | 381.8 | 339.4 | 309.1 | 303.0 | 303.0 | 303.0 |
| 50° | 10558.2 | 6576.1 | 794.0 | 521.2 | 430.3 | 357.6 | 315.2 | 290.9 | 278.8 | 278.8 | 278.8 |
| 52.5° | 11334.0 | 6982.2 | 781.9 | 490.9 | 412.1 | 339.4 | 303.0 | 272.7 | 254.6 | 254.6 | 254.6 |
| 55° | 12073.4 | 7376.2 | 763.7 | 454.6 | 394.0 | 315.2 | 284.9 | 254.6 | 236.4 | 230.3 | 230.3 |
| 57.5° | 12818.9 | 7739.9 | 715.2 | 418.2 | 357.6 | 297.0 | 266.7 | 236.4 | 218.2 | 206.1 | 206.1 |
| 60° | 13431.1 | 7964.1 | 642.5 | 375.8 | 315.2 | 272.7 | 248.5 | 218.2 | 194.0 | 175.8 | 175.8 |
| 62.5° | 13473.5 | 7733.8 | 533.4 | 333.4 | 278.8 | 248.5 | 224.3 | 194.0 | 163.6 | 139.4 | 139.4 |
| 65° | 12752.3 | 6933.7 | 424.3 | 278.8 | 248.5 | 218.2 | 187.9 | 163.6 | 133.3 | 109.1 | 103.0 |
| 67.5° | 12915.9 | 6291.3 | 327.3 | 236.4 | 218.2 | 175.8 | 151.5 | 133.3 | 109.1 | 90.9 | 90.9 |
| 70° | *13012.9* | *4951.8* | *260.6* | *194.0* | *181.8* | *139.4* | *121.2* | *115.2* | *90.9* | *72.7* | *72.7* |
| 72.5° | 12164.4 | 3066.8 | 212.1 | 163.6 | 139.4 | 97.0 | 97.0 | 90.9 | 72.7 | 54.5 | 48.5 |
| 75° | 10727.9 | 1830.4 | 163.6 | 127.3 | 97.0 | 72.7 | 72.7 | 66.7 | 48.5 | 36.4 | 36.4 |
| 77.5° | 6485.2 | 963.7 | 127.3 | 97.0 | 66.7 | 54.5 | 48.5 | 42.4 | 30.3 | 24.2 | 18.2 |
| 80° | 2006.2 | 339.4 | 97.0 | 66.7 | 48.5 | 42.4 | 30.3 | 18.2 | 12.1 | 12.1 | 6.1 |
| 82.5° | 278.8 | 121.2 | 72.7 | 54.5 | 36.4 | 24.2 | 18.2 | 12.1 | 6.1 | 6.1 | 6.1 |
| 85° | 97.0 | 66.7 | 48.5 | 36.4 | 24.2 | 18.2 | 12.1 | 6.1 | 6.1 | 0.0 | 0.0 |
| 87.5° | 54.5 | 48.5 | 36.4 | 24.2 | 18.2 | 12.1 | 12.1 | 6.1 | 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: SP1-2407-184-5

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-735-U-5WQ

Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

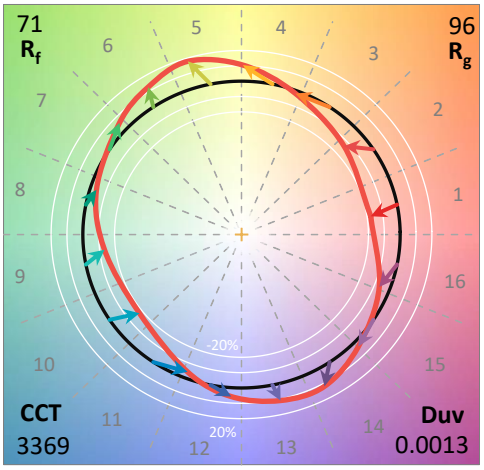
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2407-184-5 |
| 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-735-U-5WQ** |
| Description: | GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3500K CCT 26 LEDS |

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 3369 |
| CIE u': | 0.2386 |
| CIE v': | 0.5156 |
| Duv: | 0.0013 |
| CIE x: | 0.4143 |
| CIE y: | 0.3980 |
| CIE z: | 0.1877 |
| Peak Wavelength (nm): | 590 |
| Dominant Wavelength (nm): | 580 |
| Purity: | 43.80166 |
| Rf: | 71.4 |
| Rg: | 96 |

| | |
|---|---|
| CRI (Ra): | 70.1 |
| R1: | 66.6 |
| R2: | 77.6 |
| R3: | 88.5 |
| R4: | 69.5 |
| R5: | 66.4 |
| R6: | 69.6 |
| R7: | 77.5 |
| R8: | 44.9 |
| R9: | -40.2 |
| R10: | 49.1 |
| R11: | 66.3 |
| R12: | 45.7 |
| R13: | 68.0 |
| R14: | 93.4 |
| R15: | 57.6 |




## Test Conditions

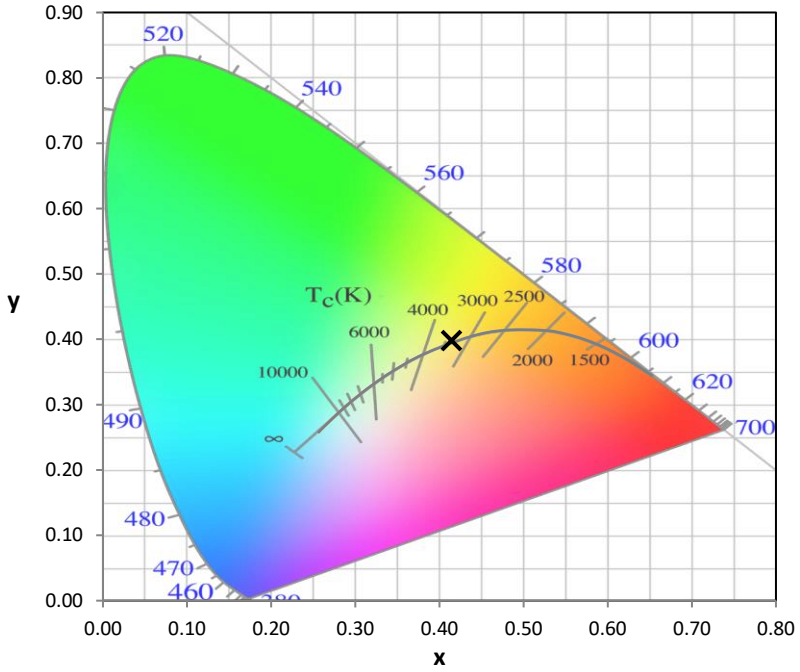
| | |
|---|---|
| Stabilization Time: | 21M |
| Operation Time: | 1H 21M |
| Sphere Temperature (°C): | 25.2 |

REPORT NUMBER: SP1-2407-184-5

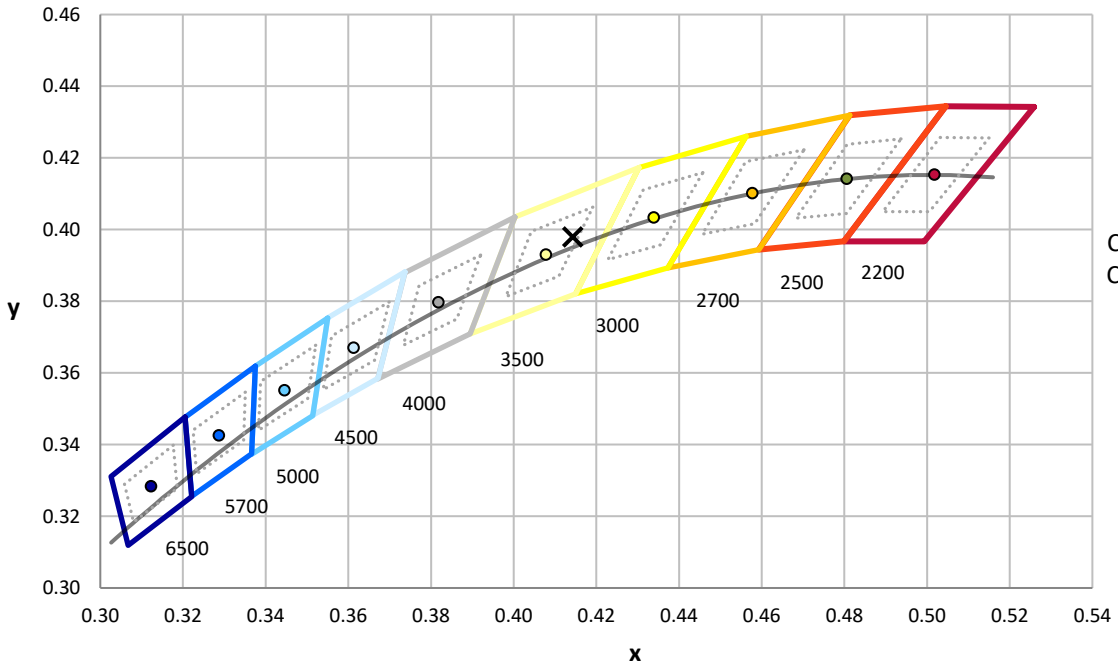
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC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

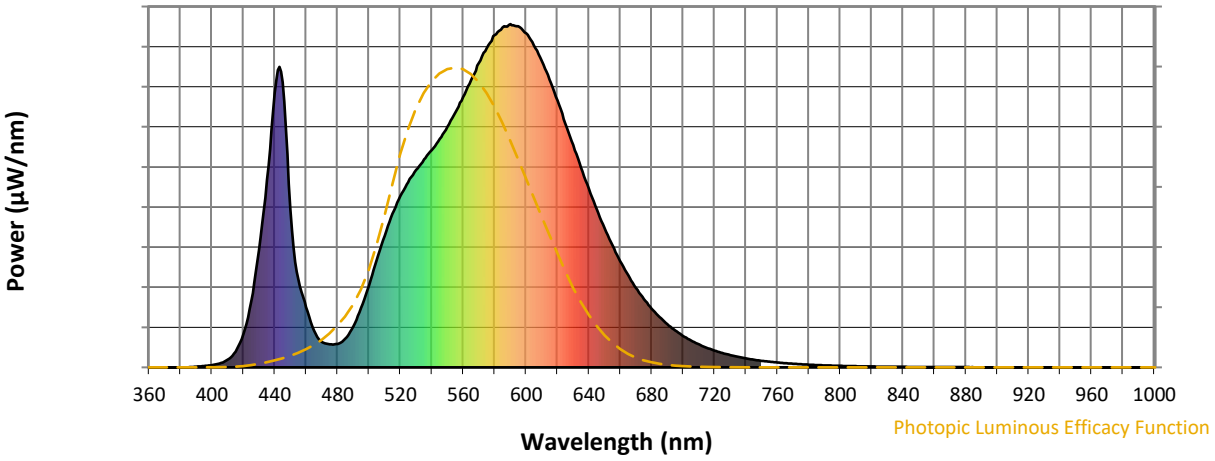



CCT = 3369K
CIE x = 0.4143
CIE y = 0.3980
Duv = 0.0013

Point lies inside the ANSI 3500K 4-step quadrangle

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## Photopic Flux vs. Wavelength

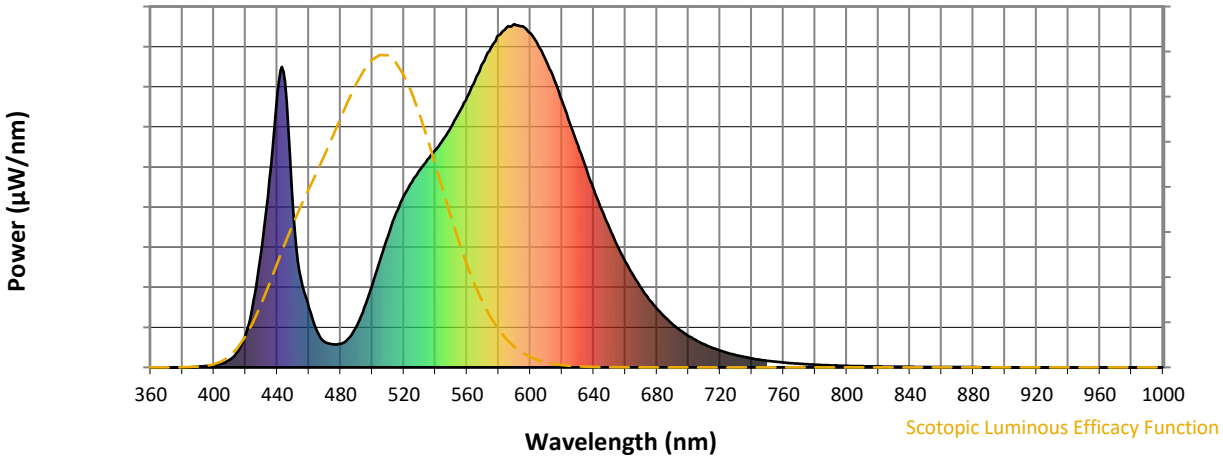



## Photopic Lumens: NR

| 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 | 119 | NR | 620 | 778 | NR | 750 | 19 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 173 | NR | 625 | 711 | NR | 755 | 16 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 239 | NR | 630 | 648 | NR | 760 | 14 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 313 | NR | 635 | 582 | NR | 765 | 12 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 383 | NR | 640 | 520 | NR | 770 | 11 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 448 | NR | 645 | 460 | NR | 775 | 9 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 500 | NR | 650 | 406 | NR | 780 | 8 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 539 | NR | 655 | 355 | NR | 785 | 7 | NR | 915 | 0 | NR |
| 400 | 6 | NR | 530 | 575 | NR | 660 | 309 | NR | 790 | 6 | NR | 920 | 0 | NR |
| 405 | 11 | NR | 535 | 606 | NR | 665 | 269 | NR | 795 | 5 | NR | 925 | 0 | NR |
| 410 | 22 | NR | 540 | 633 | NR | 670 | 231 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 45 | NR | 545 | 666 | NR | 675 | 199 | NR | 805 | 4 | NR | 935 | 0 | NR |
| 420 | 96 | NR | 550 | 701 | NR | 680 | 171 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 193 | NR | 555 | 743 | NR | 685 | 147 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 341 | NR | 560 | 788 | NR | 690 | 126 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 547 | NR | 565 | 837 | NR | 695 | 107 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 799 | NR | 570 | 887 | NR | 700 | 92 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 831 | NR | 575 | 931 | NR | 705 | 78 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 461 | NR | 580 | 967 | NR | 710 | 67 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 256 | NR | 585 | 990 | NR | 715 | 57 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 176 | NR | 590 | 1000 | NR | 720 | 49 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 107 | NR | 595 | 994 | NR | 725 | 42 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 74 | NR | 600 | 973 | NR | 730 | 36 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 67 | NR | 605 | 938 | NR | 735 | 31 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 68 | NR | 610 | 892 | NR | 740 | 26 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 84 | NR | 615 | 838 | NR | 745 | 22 | NR | 875 | 1 | NR | | | |

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## Scotopic Flux vs. Wavelength

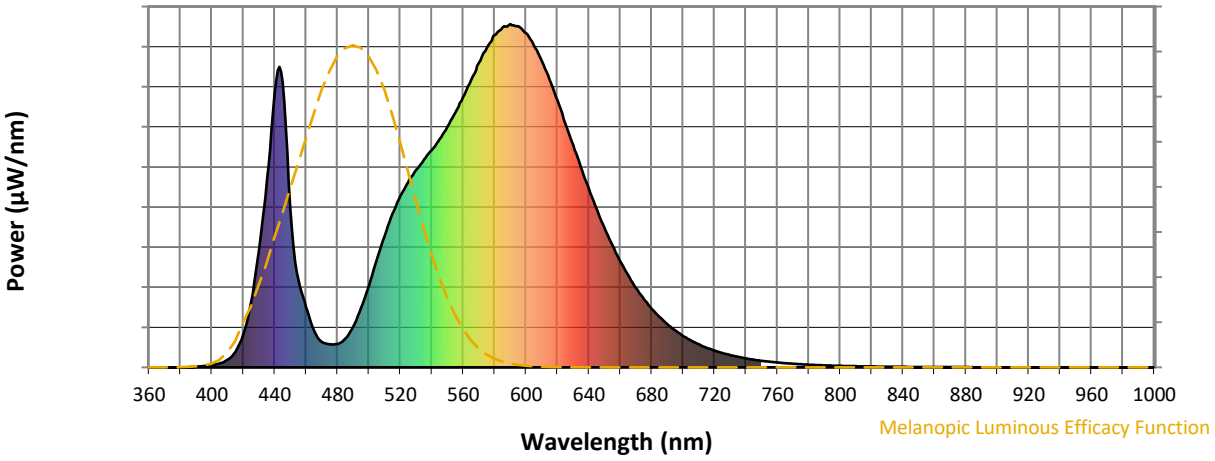



**Scotopic Lumens: NR** **S/P: 1.29**

| 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 | 119 | NR | 620 | 778 | NR | 750 | 19 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 173 | NR | 625 | 711 | NR | 755 | 16 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 239 | NR | 630 | 648 | NR | 760 | 14 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 313 | NR | 635 | 582 | NR | 765 | 12 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 383 | NR | 640 | 520 | NR | 770 | 11 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 448 | NR | 645 | 460 | NR | 775 | 9 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 500 | NR | 650 | 406 | NR | 780 | 8 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 539 | NR | 655 | 355 | NR | 785 | 7 | NR | 915 | 0 | NR |
| 400 | 6 | NR | 530 | 575 | NR | 660 | 309 | NR | 790 | 6 | NR | 920 | 0 | NR |
| 405 | 11 | NR | 535 | 606 | NR | 665 | 269 | NR | 795 | 5 | NR | 925 | 0 | NR |
| 410 | 22 | NR | 540 | 633 | NR | 670 | 231 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 45 | NR | 545 | 666 | NR | 675 | 199 | NR | 805 | 4 | NR | 935 | 0 | NR |
| 420 | 96 | NR | 550 | 701 | NR | 680 | 171 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 193 | NR | 555 | 743 | NR | 685 | 147 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 341 | NR | 560 | 788 | NR | 690 | 126 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 547 | NR | 565 | 837 | NR | 695 | 107 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 799 | NR | 570 | 887 | NR | 700 | 92 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 831 | NR | 575 | 931 | NR | 705 | 78 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 461 | NR | 580 | 967 | NR | 710 | 67 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 256 | NR | 585 | 990 | NR | 715 | 57 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 176 | NR | 590 | 1000 | NR | 720 | 49 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 107 | NR | 595 | 994 | NR | 725 | 42 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 74 | NR | 600 | 973 | NR | 730 | 36 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 67 | NR | 605 | 938 | NR | 735 | 31 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 68 | NR | 610 | 892 | NR | 740 | 26 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 84 | NR | 615 | 838 | NR | 745 | 22 | NR | 875 | 1 | NR | | | |

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## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 2.36**

| 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 | 119 | NR | 620 | 778 | NR | 750 | 19 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 173 | NR | 625 | 711 | NR | 755 | 16 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 239 | NR | 630 | 648 | NR | 760 | 14 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 313 | NR | 635 | 582 | NR | 765 | 12 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 383 | NR | 640 | 520 | NR | 770 | 11 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 448 | NR | 645 | 460 | NR | 775 | 9 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 500 | NR | 650 | 406 | NR | 780 | 8 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 539 | NR | 655 | 355 | NR | 785 | 7 | NR | 915 | 0 | NR |
| 400 | 6 | NR | 530 | 575 | NR | 660 | 309 | NR | 790 | 6 | NR | 920 | 0 | NR |
| 405 | 11 | NR | 535 | 606 | NR | 665 | 269 | NR | 795 | 5 | NR | 925 | 0 | NR |
| 410 | 22 | NR | 540 | 633 | NR | 670 | 231 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 45 | NR | 545 | 666 | NR | 675 | 199 | NR | 805 | 4 | NR | 935 | 0 | NR |
| 420 | 96 | NR | 550 | 701 | NR | 680 | 171 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 193 | NR | 555 | 743 | NR | 685 | 147 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 341 | NR | 560 | 788 | NR | 690 | 126 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 547 | NR | 565 | 837 | NR | 695 | 107 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 799 | NR | 570 | 887 | NR | 700 | 92 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 831 | NR | 575 | 931 | NR | 705 | 78 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 461 | NR | 580 | 967 | NR | 710 | 67 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 256 | NR | 585 | 990 | NR | 715 | 57 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 176 | NR | 590 | 1000 | NR | 720 | 49 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 107 | NR | 595 | 994 | NR | 725 | 42 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 74 | NR | 600 | 973 | NR | 730 | 36 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 67 | NR | 605 | 938 | NR | 735 | 31 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 68 | NR | 610 | 892 | NR | 740 | 26 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 84 | NR | 615 | 838 | NR | 745 | 22 | NR | 875 | 1 | NR | | | |

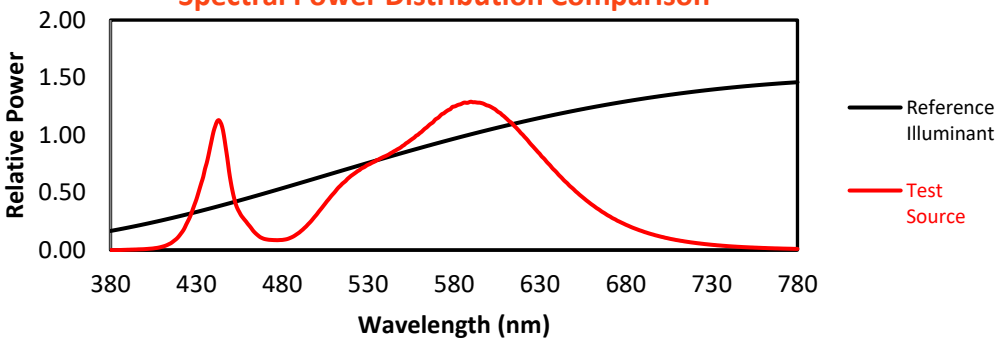
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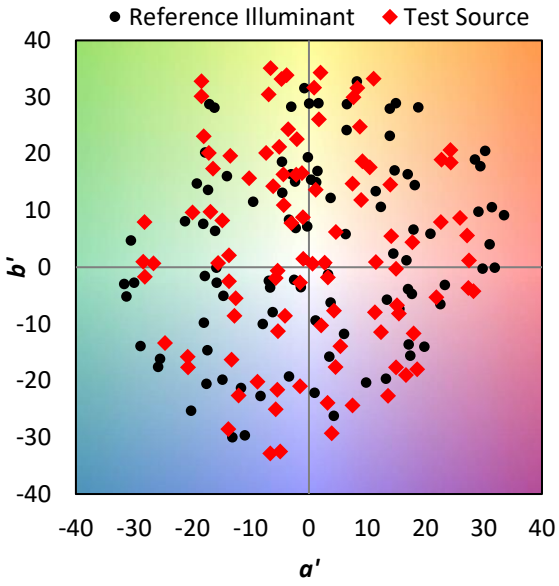
## Summary

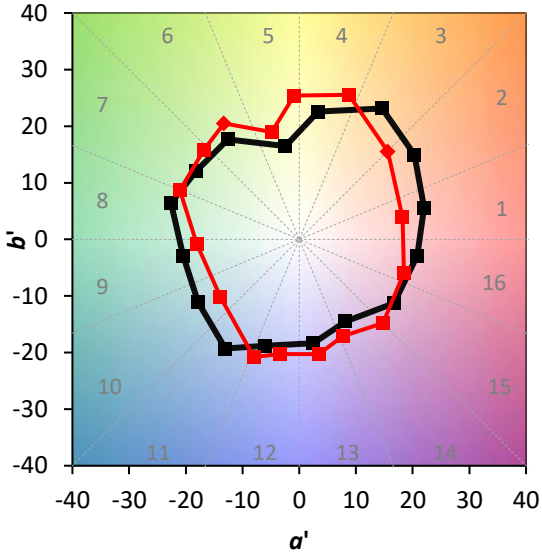
$R_f$ = 71.4
$R_g$ = 96
CIE $R_a$ = 70.1
$R_9$ = -40.2

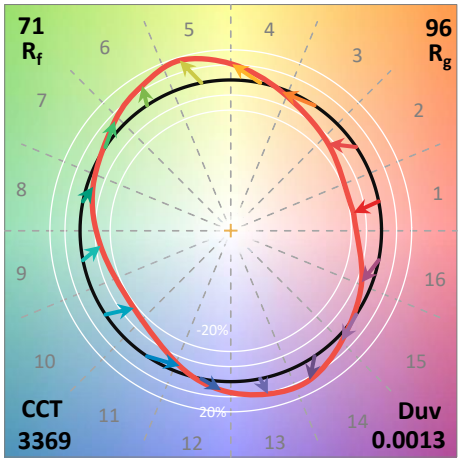
## Spectral Power Distribution Comparison

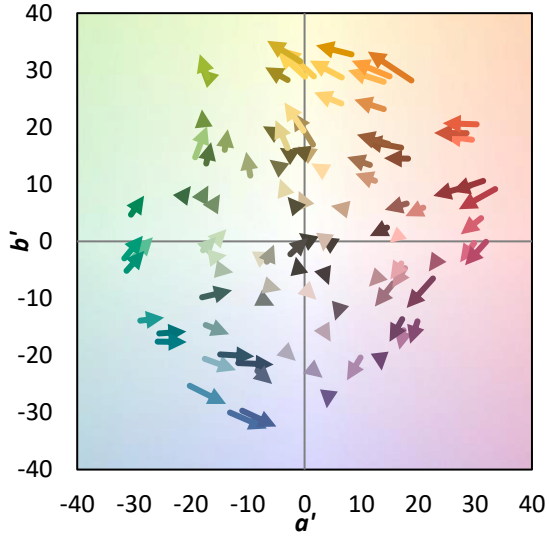



## Color Vector Graphics



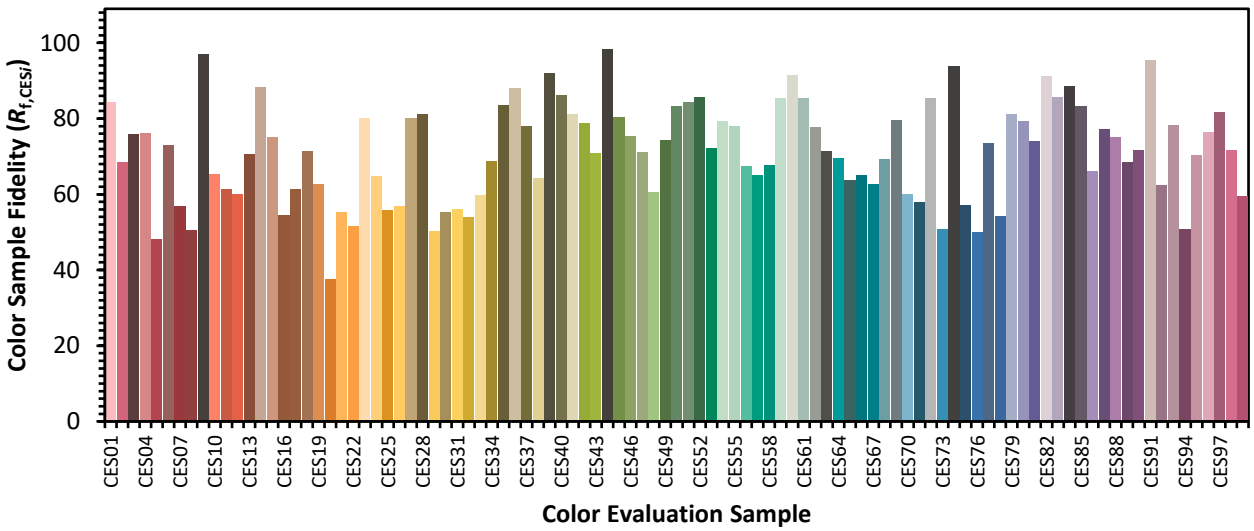



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## Individual Sample Fidelity Index ($R_{f,i}$)

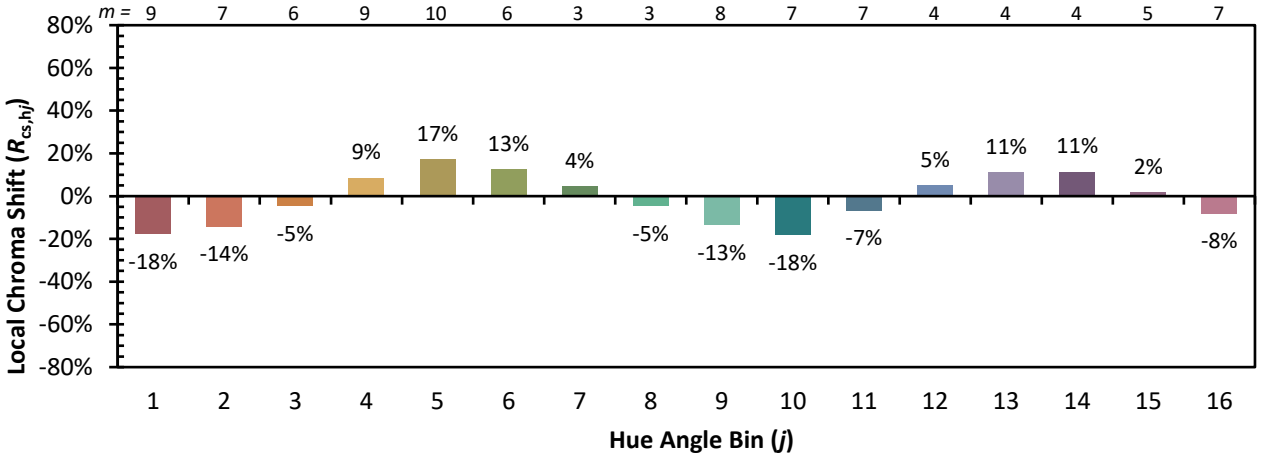
| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 57 | CES51 = 84 | CES76 = 50 |
| CES02 = 62 | CES27 = 80 | CES52 = 86 | CES77 = 74 |
| CES03 = 31 | CES28 = 81 | CES53 = 72 | CES78 = 54 |
| CES04 = 70 | CES29 = 50 | CES54 = 79 | CES79 = 81 |
| CES05 = 48 | CES30 = 55 | CES55 = 78 | CES80 = 79 |
| CES06 = 51 | CES31 = 56 | CES56 = 67 | CES81 = 74 |
| CES07 = 40 | CES32 = 54 | CES57 = 65 | CES82 = 91 |
| CES08 = 39 | CES33 = 60 | CES58 = 68 | CES83 = 86 |
| CES09 = 29 | CES34 = 69 | CES59 = 85 | CES84 = 89 |
| CES10 = 75 | CES35 = 83 | CES60 = 91 | CES85 = 83 |
| CES11 = 58 | CES36 = 88 | CES61 = 85 | CES86 = 66 |
| CES12 = 64 | CES37 = 78 | CES62 = 78 | CES87 = 77 |
| CES13 = 43 | CES38 = 64 | CES63 = 71 | CES88 = 75 |
| CES14 = 74 | CES39 = 92 | CES64 = 70 | CES89 = 68 |
| CES15 = 71 | CES40 = 86 | CES65 = 64 | CES90 = 72 |
| CES16 = 47 | CES41 = 81 | CES66 = 65 | CES91 = 95 |
| CES17 = 50 | CES42 = 79 | CES67 = 63 | CES92 = 62 |
| CES18 = 56 | CES43 = 71 | CES68 = 69 | CES93 = 78 |
| CES19 = 72 | CES44 = 98 | CES69 = 80 | CES94 = 51 |
| CES20 = 65 | CES45 = 80 | CES70 = 60 | CES95 = 70 |
| CES21 = 87 | CES46 = 75 | CES71 = 58 | CES96 = 76 |
| CES22 = 79 | CES47 = 71 | CES72 = 85 | CES97 = 82 |
| CES23 = 92 | CES48 = 61 | CES73 = 51 | CES98 = 72 |
| CES24 = 91 | CES49 = 74 | CES74 = 94 | CES99 = 60 |
| CES25 = 72 | CES50 = 83 | CES75 = 57 | |

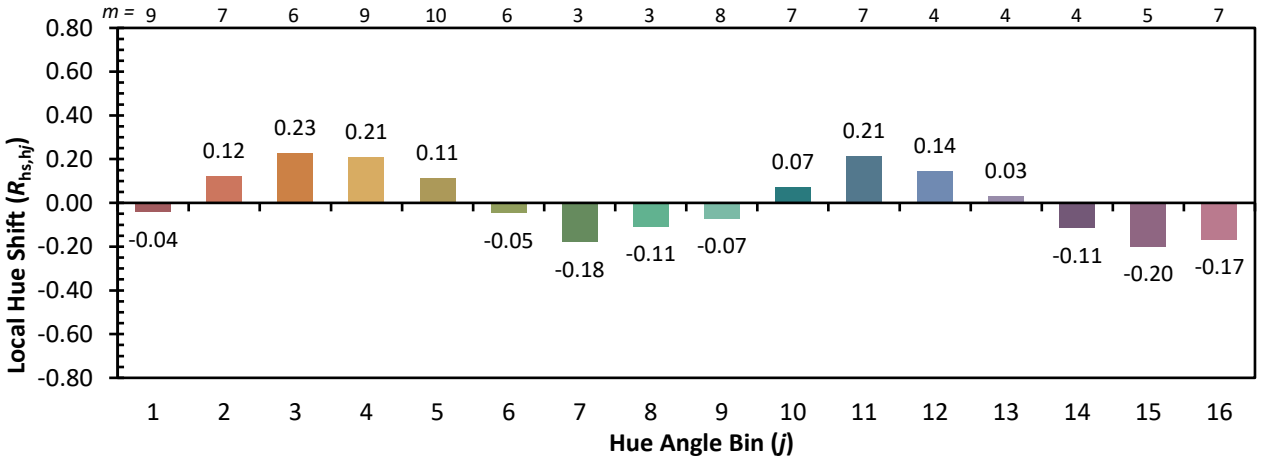


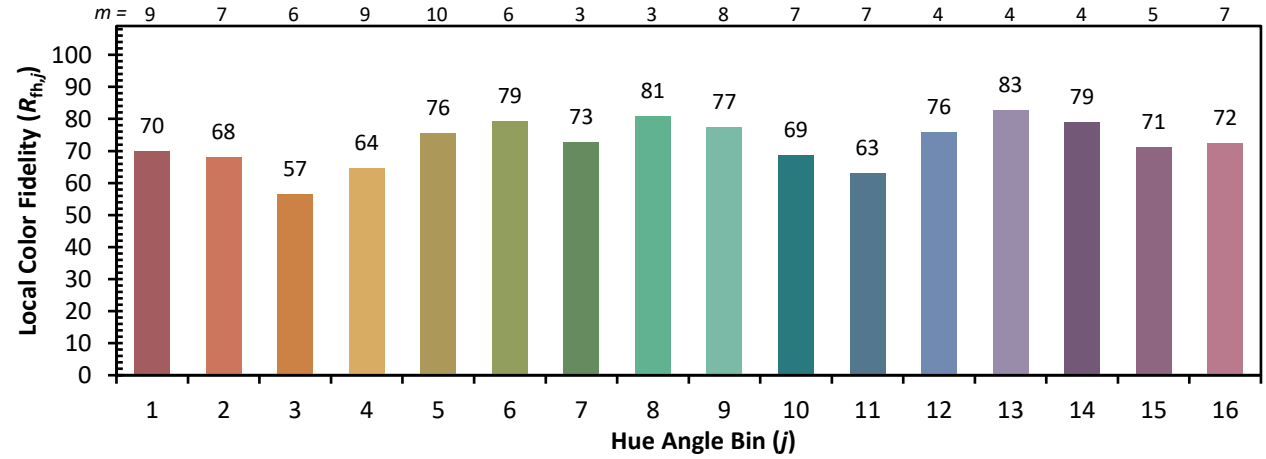
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## Color Rendition by Hue-Angle Bin



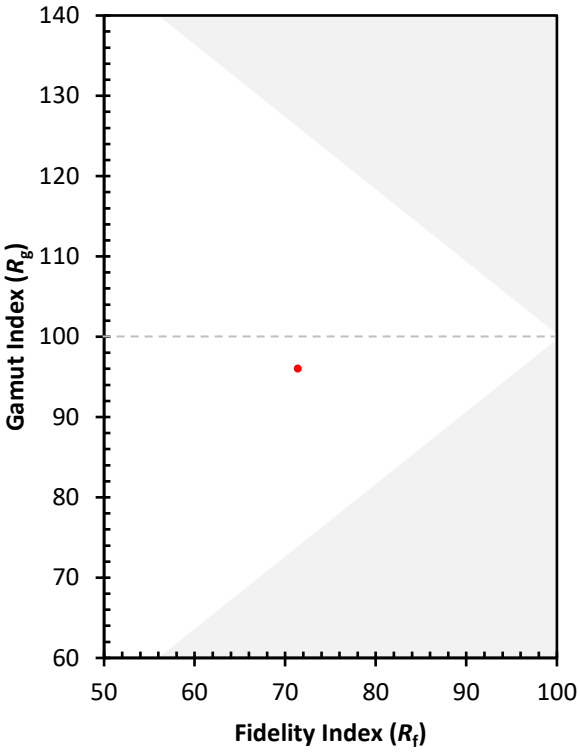



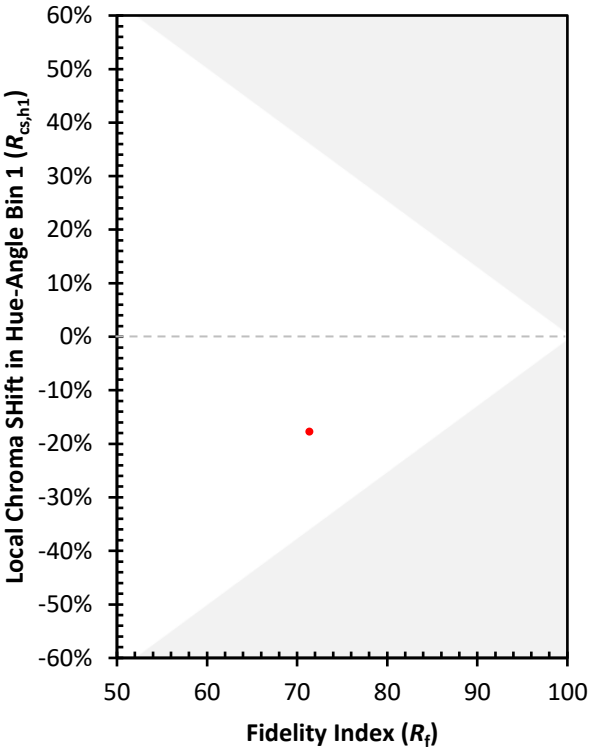



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## Measure Comparisons




(END OF REPORT)