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: P1366924

Luminaire Tested: **GSS-SB6B-735-U-T3R-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: | P1366924 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 02/18/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB6B-735-U-T3R-HSS |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 6SQUARE 219W 70CRI 3500K FIXTURE w/ TYPE III ROADWAY 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: | 26338.4 lumens |
| Efficiency: | N/A |
| Efficacy: | 120.3 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1' x H: 0') |
| IES Classification: | Type III - Medium |
| BUG Rating: | B2 - U0 - G4 |

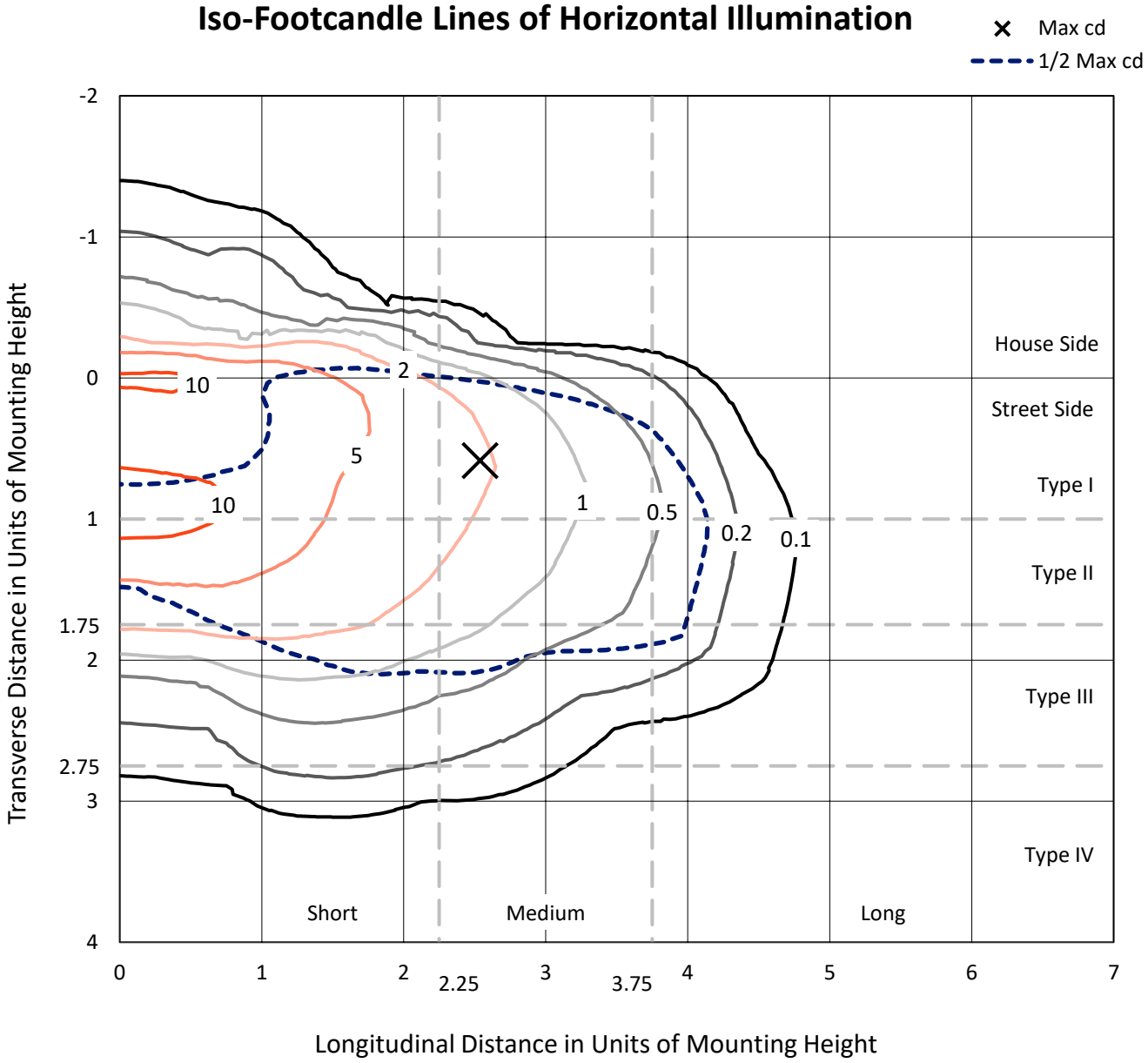
| | |
|---|---|
| Input Watts (W): | 219 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 8.7% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature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

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REPORT NUMBER: P1366924
CATALOG NUMBER: GSS-SB6B-735-U-T3R-HSS

## Iso-Footcandle Lines of Horizontal Illumination



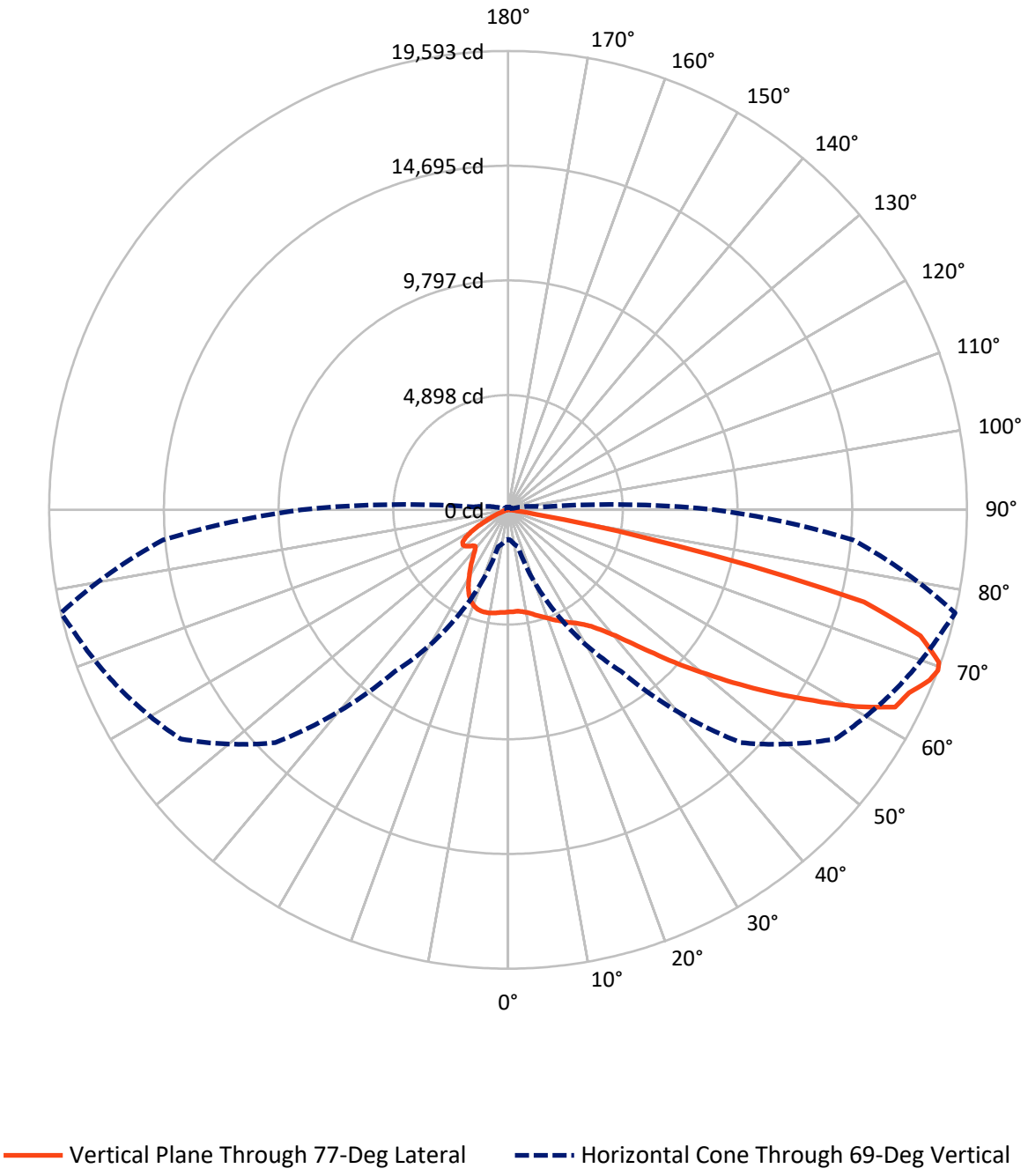

Based on 20 foot mounting height. Maximum calculated value = 12.4 fc
Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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Scaled Data Report

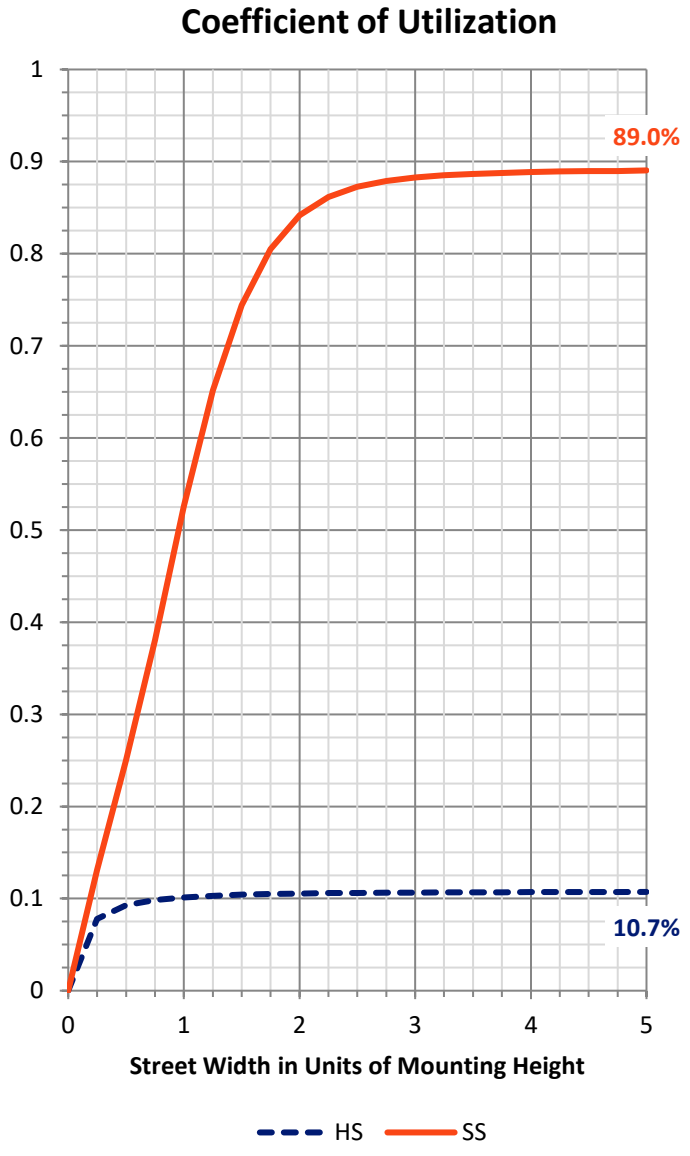
REPORT NUMBER: P1366924
CATALOG NUMBER: GSS-SB6B-735-U-T3R-HSS

**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 2846.9 | 0.0 | 2846.9 |
| | % Fixture | 10.8 | 0.0 | 10.8 |
| **Street Side** | Lumens | 23491.5 | 0.0 | 23491.5 |
| | % Fixture | 89.2 | 0.0 | 89.2 |
| **Total** | Lumens | 26338.4 | 0.0 | 26338.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 372.5 | 1.4 |
| 10°-20° | 884.4 | 3.4 |
| 20°-30° | 1364.5 | 5.2 |
| 30°-40° | 2423.9 | 9.2 |
| 40°-50° | 4682.2 | 17.8 |
| 50°-60° | 6802.9 | 25.8 |
| 60°-70° | 6528.3 | 24.8 |
| 70°-80° | 3163.7 | 12.0 |
| 80°-90° | 116.1 | 0.4 |
| 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° | 26338.4 | 100.0 |
| 0°-180° | 26338.4 | 100.0 |



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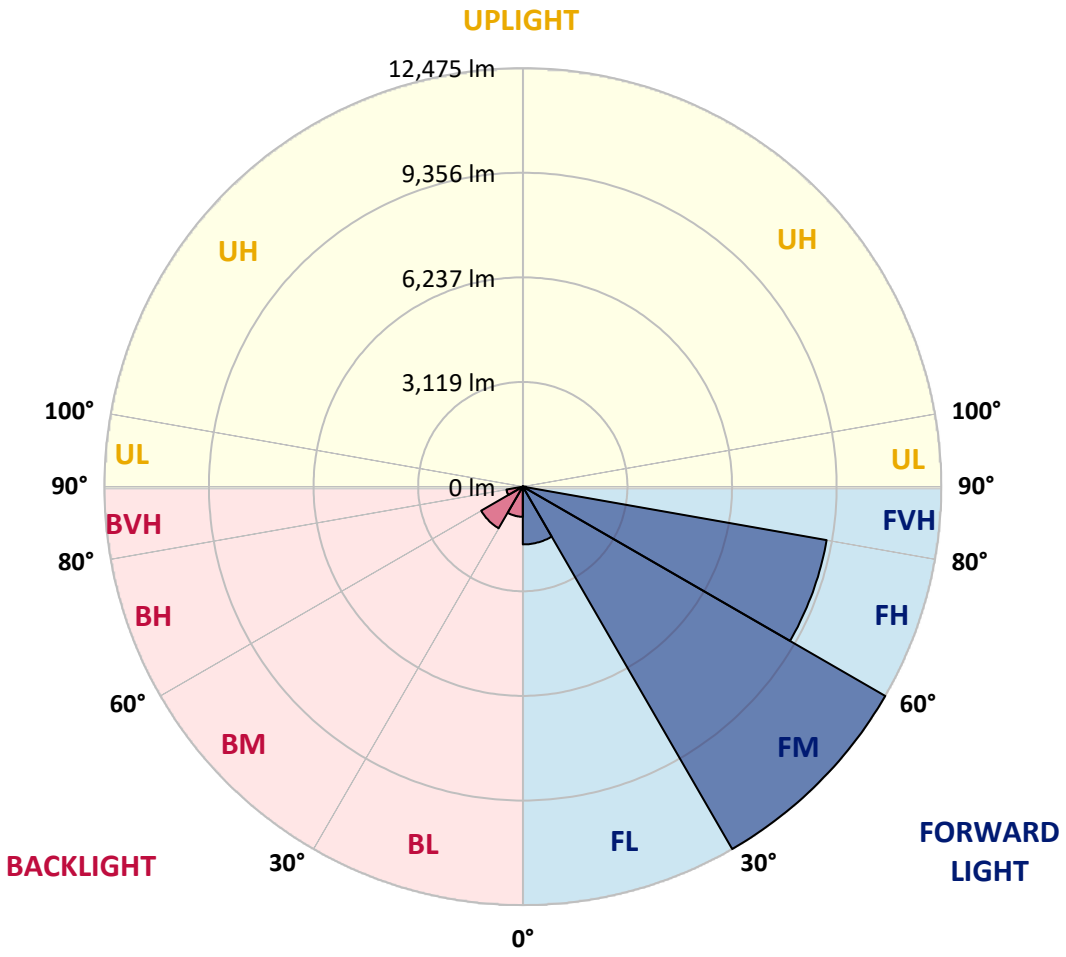
Scaled Data Report

REPORT NUMBER: P1366924
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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°) | 1723.1 | 6.5 | | | |
| FM | (30°-60°) | 12475.0 | 47.4 | | | |
| FH | (60°-80°) | 9195.7 | 34.9 | | | G4/12000 |
| FVH | (80°-90°) | 97.8 | 0.4 | | | G1/100 |
| BL | (0°-30°) | 898.3 | 3.4 | B2/1000 | | |
| BM | (30°-60°) | 1434.0 | 5.4 | B2/2500 | | |
| BH | (60°-80°) | 496.3 | 1.9 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 18.3 | 0.1 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

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



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 4360.0 | 4360.0 | 4360.0 | 4360.0 | 4360.0 | 4360.0 | 4360.0 | 4360.0 | 4360.0 | *4360.0* | 4360.0 |
| 2.5° | 4192.0 | 4207.3 | 4184.4 | 4199.7 | 4222.6 | 4237.9 | 4276.0 | 4291.3 | 4344.8 | *4360.0* | 4375.3 |
| 5° | 3985.9 | 4001.1 | 4001.1 | 4031.7 | 4069.9 | 4115.7 | 4176.8 | 4237.9 | 4337.1 | *4344.8* | 4413.5 |
| 7.5° | 3741.5 | 3733.9 | 3756.8 | 3817.9 | 3894.2 | 4008.8 | 4115.7 | 4222.6 | 4367.7 | *4390.6* | 4512.7 |
| 10° | 3428.5 | 3428.5 | 3474.3 | 3558.3 | 3680.4 | 3871.3 | 4054.6 | 4215.0 | 4405.8 | *4459.3* | 4619.6 |
| 12.5° | 3252.8 | 3260.5 | 3283.4 | 3352.1 | 3527.7 | 3749.2 | 3993.5 | 4253.1 | 4505.1 | *4558.6* | 4780.0 |
| 15° | 3184.1 | 3191.8 | 3222.3 | 3291.0 | 3428.5 | 3688.1 | 3978.2 | 4298.9 | 4612.0 | *4680.7* | 4948.0 |
| 17.5° | 3191.8 | 3184.1 | 3207.0 | 3260.5 | 3397.9 | 3649.9 | 3993.5 | 4375.3 | 4726.5 | *4810.5* | 5123.6 |
| 20° | 3237.6 | 3237.6 | 3237.6 | 3275.7 | 3405.6 | 3649.9 | 4039.3 | 4482.2 | 4871.6 | *4948.0* | 5337.4 |
| 22.5° | 3321.6 | 3306.3 | 3313.9 | 3329.2 | 3451.4 | 3695.7 | 4108.1 | 4596.7 | 5016.7 | *5108.3* | 5535.9 |
| 25° | 3382.7 | 3375.0 | 3375.0 | 3405.6 | 3520.1 | 3741.5 | 4176.8 | 4772.4 | 5177.1 | *5261.1* | 5742.1 |
| 27.5° | 3764.4 | 3726.3 | 3604.1 | 3504.8 | 3596.5 | 3840.8 | 4276.0 | 4925.1 | 5345.0 | *5436.7* | 5933.0 |
| 30° | 4963.3 | 4902.2 | 4528.0 | 3993.5 | 3764.4 | 3955.3 | 4405.8 | 5085.4 | 5528.3 | *5604.7* | 6177.3 |
| 32.5° | 6765.3 | 6688.9 | 6108.6 | 5085.4 | 4321.9 | 4184.4 | 4581.5 | 5276.3 | 5734.5 | *5818.5* | 6467.5 |
| 35° | 8651.3 | 8552.1 | 7979.4 | 6818.8 | 5505.4 | 4696.0 | 4848.7 | 5520.7 | 6017.0 | *6108.6* | 6879.8 |
| 37.5° | 10041.1 | 9972.3 | 9567.6 | 8605.5 | 7024.9 | 5665.7 | 5291.6 | 5871.9 | 6414.1 | *6513.3* | 7444.9 |
| 40° | 11194.1 | 11148.2 | 11026.1 | 10224.3 | 8735.3 | 7070.7 | 6039.9 | 6414.1 | 6956.2 | *7063.1* | 8132.1 |
| 42.5° | 12202.0 | 12186.7 | 12240.2 | 11881.3 | 10651.9 | 8697.2 | 7170.0 | 7208.2 | 7696.9 | *7811.4* | 9002.6 |
| 45° | 13034.3 | 13041.9 | 13255.7 | 13431.3 | 12621.9 | 10476.3 | 8475.7 | 8155.0 | 8590.3 | *8743.0* | 9949.4 |
| 47.5° | 13851.3 | 13790.2 | 14179.6 | 14561.4 | 14271.3 | 12278.3 | 9827.2 | 9224.0 | 9689.8 | *9865.4* | 11003.2 |
| 50° | 13965.8 | 13988.8 | 14660.7 | 15294.5 | 15546.4 | 13981.1 | 11293.3 | 10422.8 | 10858.1 | *11026.1* | 12125.6 |
| 52.5° | 13316.8 | 13454.2 | 14469.8 | 15630.4 | 16294.8 | 15485.4 | 12820.5 | 11705.7 | 12095.1 | *12385.2* | 13278.6 |
| 55° | 10148.0 | 10468.7 | 13797.9 | 15263.9 | 16416.9 | 16500.9 | 14233.1 | 12927.4 | 13477.2 | *13828.4* | 14362.9 |
| 57.5° | 8827.0 | 8918.6 | 10743.5 | 14500.3 | 16004.6 | 17043.1 | 15424.3 | 14149.1 | 14973.8 | *15363.2* | 15462.5 |
| 60° | 7582.3 | 7628.1 | 9033.1 | 13286.3 | 15294.5 | 16821.6 | 16424.6 | 15577.0 | 16600.2 | *17050.7* | 16401.7 |
| 62.5° | 4459.3 | 4818.2 | 6391.1 | 10705.4 | 14408.7 | 16531.5 | 17188.1 | 17050.7 | 18142.6 | *18547.3* | 16516.2 |
| 65° | 2260.2 | 2458.7 | 3413.2 | 7933.6 | 12873.9 | 16371.1 | 17883.0 | 17883.0 | 18432.8 | *18822.2* | 15676.3 |
| 67.5° | 1466.1 | 1542.4 | 1924.2 | 5894.8 | 10002.9 | 15767.9 | 17592.8 | 17898.3 | 18990.2 | *19417.8* | 15332.6 |
| 69° | *1259.9* | *1313.4* | *1634.1* | *4886.9* | *8422.3* | *14057.5* | *17058.3* | *18226.6* | *19333.8* | *19593.4* | *14790.5* |
| 70° | 1130.1 | 1175.9 | 1489.0 | 4260.8 | 7315.1 | 11858.4 | 16752.9 | 18325.9 | 19280.3 | *19517.1* | 14240.7 |
| 72.5° | 786.5 | 794.1 | 1107.2 | 2519.8 | 4634.9 | 7536.5 | 13591.7 | 17524.1 | 18417.5 | *18417.5* | 12545.6 |
| 75° | 328.3 | 389.4 | 626.1 | 1107.2 | 1931.9 | 4176.8 | 6582.0 | 14943.2 | 15981.7 | *15706.8* | 9666.9 |
| 77.5° | 259.6 | 305.4 | 542.1 | 610.9 | 702.5 | 1725.7 | 2336.5 | 8743.0 | 7620.5 | *7192.9* | 3161.2 |
| 80° | 190.9 | 221.4 | 458.1 | 412.3 | 259.6 | 504.0 | 580.3 | 1992.9 | 1427.9 | *1252.3* | 481.1 |
| 82.5° | 84.0 | 106.9 | 351.2 | 259.6 | 145.1 | 160.4 | 213.8 | 420.0 | 412.3 | *366.5* | 198.5 |
| 85° | 45.8 | 68.7 | 152.7 | 91.6 | 61.1 | 61.1 | 84.0 | 129.8 | 114.5 | *114.5* | 84.0 |
| 87.5° | 0.0 | 0.0 | 7.6 | 7.6 | 15.3 | 22.9 | 30.5 | 45.8 | 53.5 | *53.5* | 53.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | *0.0* | 0.0 |

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

REPORT NUMBER: P1366924
CATALOG NUMBER: GSS-SB6B-735-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 4360.0 | 4360.0 | 4360.0 | 4360.0 | 4360.0 | 4360.0 | 4360.0 | 4360.0 | 4360.0 | 4360.0 | 4360.0 |
| 2.5° | 4375.3 | 4382.9 | 4382.9 | 4360.0 | 4337.1 | 4306.6 | 4253.1 | 4222.6 | 4207.3 | 4192.0 | 4184.4 |
| 5° | 4413.5 | 4428.8 | 4390.6 | 4291.3 | 4169.1 | 4001.1 | 3848.4 | 3726.3 | 3619.4 | 3596.5 | 3573.5 |
| 7.5° | 4512.7 | 4528.0 | 4413.5 | 4161.5 | 3848.4 | 3565.9 | 3260.5 | 3046.7 | 2871.1 | 2832.9 | 2840.5 |
| 10° | 4642.6 | 4657.8 | 4421.1 | 3985.9 | 3512.5 | 3031.4 | 2611.4 | 2244.9 | 2008.2 | 1954.8 | 1886.0 |
| 12.5° | 4825.8 | 4810.5 | 4398.2 | 3764.4 | 3084.9 | 2405.3 | 1840.2 | 1443.2 | 1244.6 | 1122.5 | 1145.4 |
| 15° | 5001.4 | 4963.3 | 4352.4 | 3489.6 | 2542.7 | 1718.1 | 1160.6 | 939.2 | 870.5 | 862.8 | 862.8 |
| 17.5° | 5215.2 | 5123.6 | 4268.4 | 3130.7 | 1924.2 | 1153.0 | 878.1 | 832.3 | 817.0 | 824.7 | 817.0 |
| 20° | 5413.8 | 5245.8 | 4131.0 | 2680.2 | 1382.1 | 885.8 | 817.0 | 794.1 | 786.5 | 778.8 | 778.8 |
| 22.5° | 5627.6 | 5345.0 | 3924.8 | 2160.9 | 992.7 | 809.4 | 778.8 | 755.9 | 733.0 | 725.4 | 725.4 |
| 25° | 5833.7 | 5413.8 | 3649.9 | 1641.7 | 817.0 | 763.6 | 725.4 | 694.9 | 671.9 | 656.7 | 656.7 |
| 27.5° | 6009.4 | 5436.7 | 3306.3 | 1198.8 | 748.3 | 717.8 | 664.3 | 626.1 | 595.6 | 588.0 | 588.0 |
| 30° | 6215.5 | 5429.0 | 2886.3 | 901.0 | 702.5 | 656.7 | 595.6 | 542.1 | 519.2 | 526.9 | 526.9 |
| 32.5° | 6429.3 | 5459.6 | 2466.4 | 755.9 | 656.7 | 588.0 | 504.0 | 458.1 | 442.9 | 442.9 | 450.5 |
| 35° | 6704.2 | 5505.4 | 2069.3 | 710.1 | 610.9 | 504.0 | 427.6 | 374.2 | 366.5 | 381.8 | 381.8 |
| 37.5° | 7063.1 | 5558.8 | 1687.5 | 702.5 | 572.7 | 435.2 | 351.2 | 320.7 | 313.1 | 320.7 | 320.7 |
| 40° | 7567.1 | 5726.8 | 1328.6 | 702.5 | 542.1 | 389.4 | 297.8 | 282.5 | 282.5 | 282.5 | 282.5 |
| 42.5° | 8284.8 | 6108.6 | 1084.3 | 694.9 | 526.9 | 358.9 | 267.3 | 252.0 | 252.0 | 259.6 | 259.6 |
| 45° | 9056.0 | 6688.9 | 1007.9 | 671.9 | 511.6 | 358.9 | 252.0 | 236.7 | 244.3 | 244.3 | 244.3 |
| 47.5° | 9796.7 | 7276.9 | 1030.8 | 633.8 | 496.3 | 366.5 | 244.3 | 229.1 | 229.1 | 229.1 | 229.1 |
| 50° | 10453.4 | 7689.2 | 1069.0 | 580.3 | 465.8 | 358.9 | 244.3 | 213.8 | 221.4 | 221.4 | 221.4 |
| 52.5° | 11140.6 | 7864.9 | 1084.3 | 504.0 | 420.0 | 343.6 | 244.3 | 206.2 | 206.2 | 213.8 | 213.8 |
| 55° | 11720.9 | 7811.4 | 1023.2 | 427.6 | 366.5 | 320.7 | 229.1 | 198.5 | 198.5 | 198.5 | 198.5 |
| 57.5° | 12209.6 | 7422.0 | 832.3 | 358.9 | 313.1 | 267.3 | 213.8 | 190.9 | 190.9 | 190.9 | 190.9 |
| 60° | 12385.2 | 6444.6 | 610.9 | 305.4 | 252.0 | 221.4 | 198.5 | 183.3 | 175.6 | 175.6 | 168.0 |
| 62.5° | 11713.3 | 4970.9 | 420.0 | 259.6 | 213.8 | 190.9 | 175.6 | 168.0 | 160.4 | 145.1 | 137.4 |
| 65° | 10445.7 | 3420.8 | 305.4 | 213.8 | 183.3 | 160.4 | 160.4 | 152.7 | 129.8 | 114.5 | 106.9 |
| 67.5° | 9483.6 | 2099.8 | 244.3 | 175.6 | 152.7 | 137.4 | 137.4 | 137.4 | 122.2 | 99.3 | 99.3 |
| 69° | *8819.3* | *1458.4* | *221.4* | *160.4* | *137.4* | *122.2* | *122.2* | *129.8* | *114.5* | *91.6* | *91.6* |
| 70° | 8246.6 | 1145.4 | 206.2 | 145.1 | 122.2 | 114.5 | 114.5 | 122.2 | 106.9 | 84.0 | 84.0 |
| 72.5° | 6879.8 | 565.0 | 175.6 | 122.2 | 99.3 | 91.6 | 99.3 | 99.3 | 91.6 | 68.7 | 68.7 |
| 75° | 5016.7 | 336.0 | 145.1 | 99.3 | 76.4 | 68.7 | 84.0 | 84.0 | 68.7 | 53.5 | 53.5 |
| 77.5° | 1626.4 | 198.5 | 114.5 | 84.0 | 68.7 | 61.1 | 68.7 | 61.1 | 53.5 | 38.2 | 38.2 |
| 80° | 343.6 | 122.2 | 84.0 | 61.1 | 53.5 | 45.8 | 45.8 | 38.2 | 38.2 | 30.5 | 30.5 |
| 82.5° | 152.7 | 91.6 | 61.1 | 53.5 | 38.2 | 38.2 | 30.5 | 30.5 | 22.9 | 22.9 | 22.9 |
| 85° | 76.4 | 61.1 | 45.8 | 38.2 | 30.5 | 30.5 | 22.9 | 22.9 | 22.9 | 22.9 | 22.9 |
| 87.5° | 53.5 | 45.8 | 38.2 | 22.9 | 22.9 | 22.9 | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 |
| 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

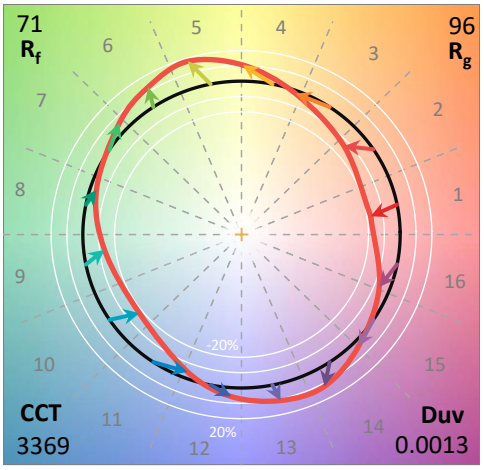
## Test Information

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

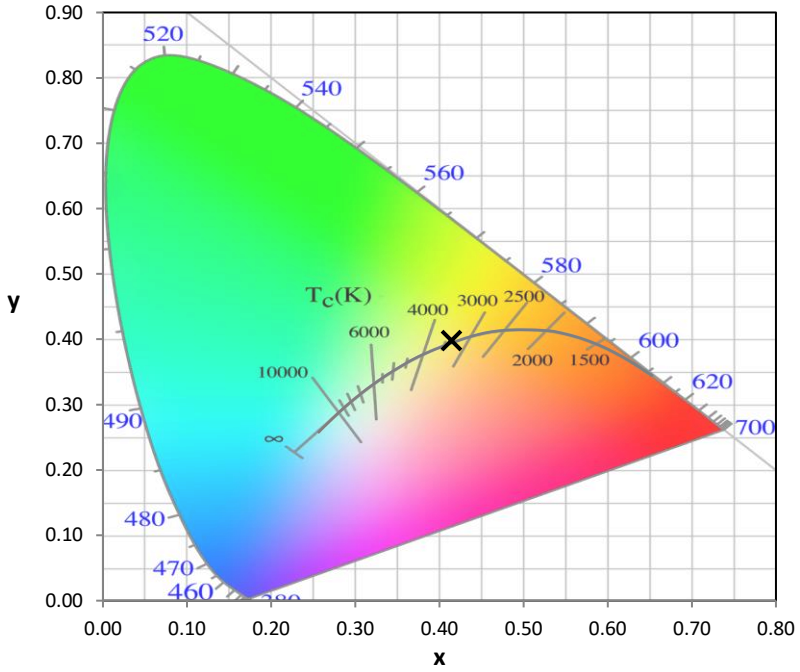
| | |
|---|---|
| Stabilization Time: | 21M |
| Operation Time: | 1H 21M |
| Sphere Temperature (°C): | 25.2 |

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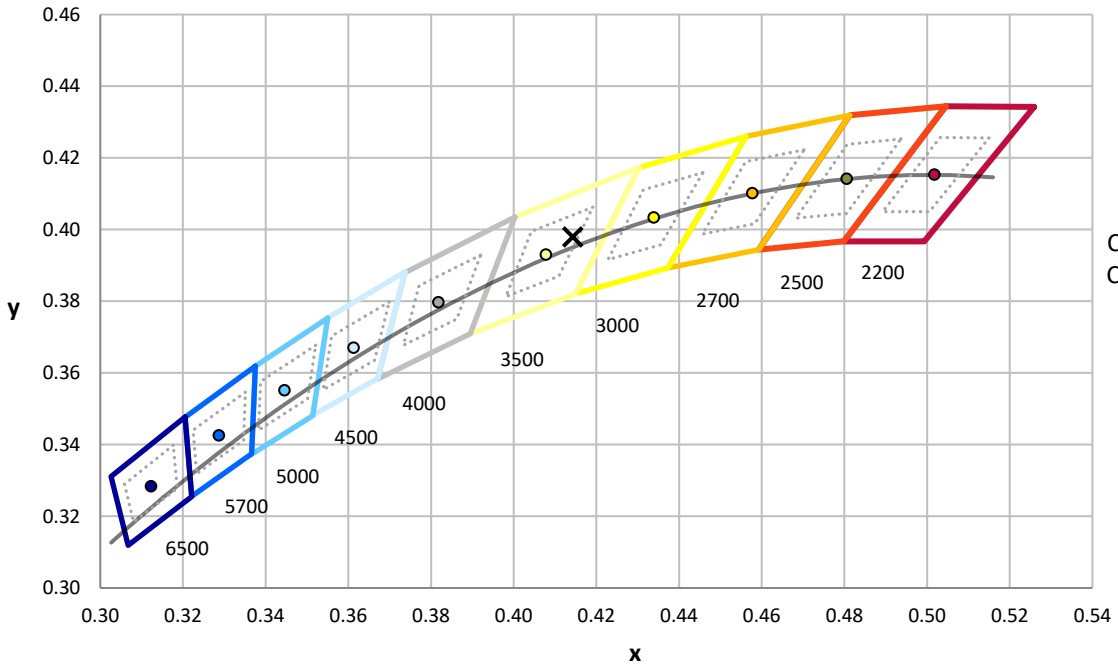
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC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

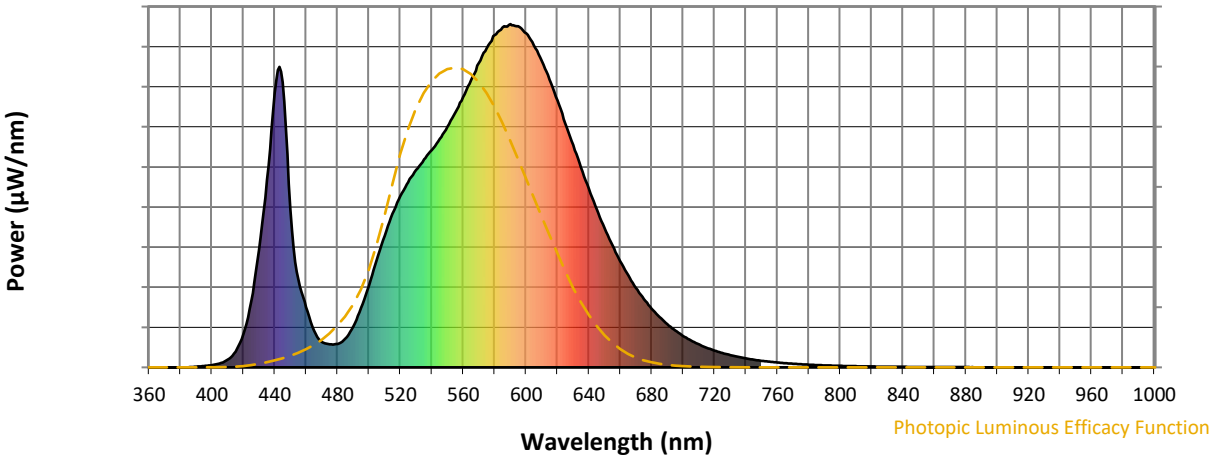



CCT = 3369K
CIE x = 0.4143
CIE y = 0.3980
Duv = 0.0013

Point lies inside the ANSI 3500K 4-step quadrangle

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## Photopic Flux vs. Wavelength

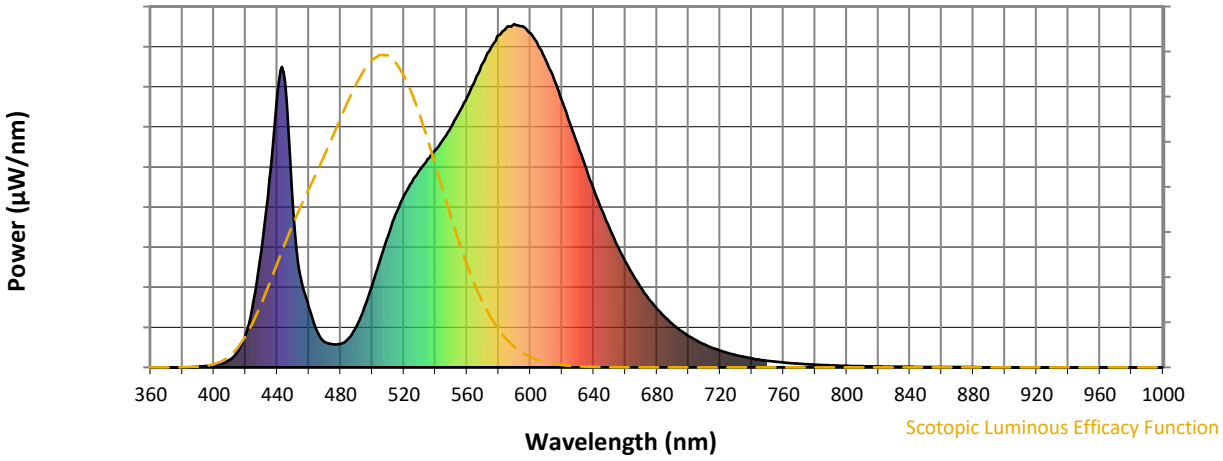



## Photopic Lumens: NR

| 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

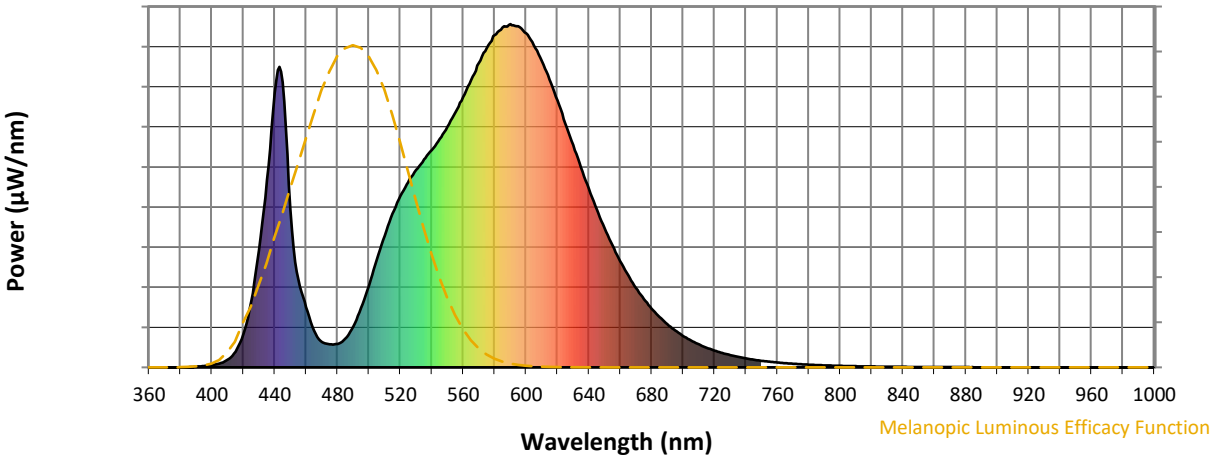



**Scotopic Lumens: NR** **S/P: 1.29**

| 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 | | | |

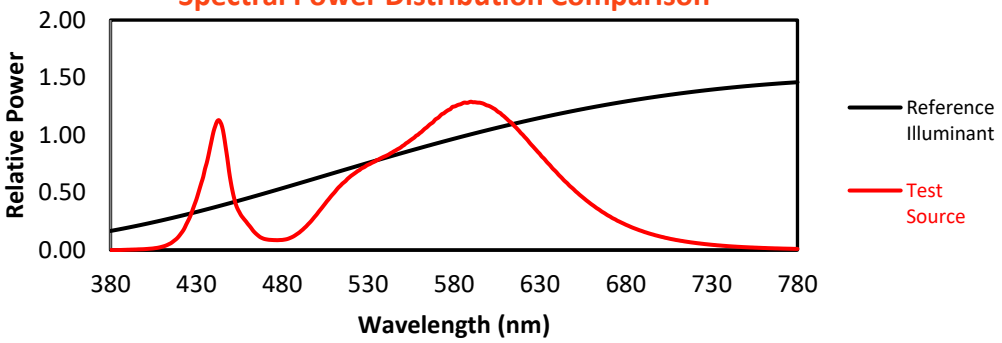
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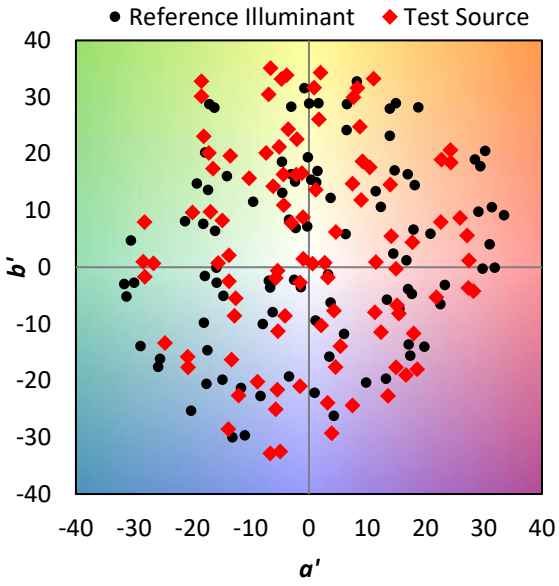
## Summary

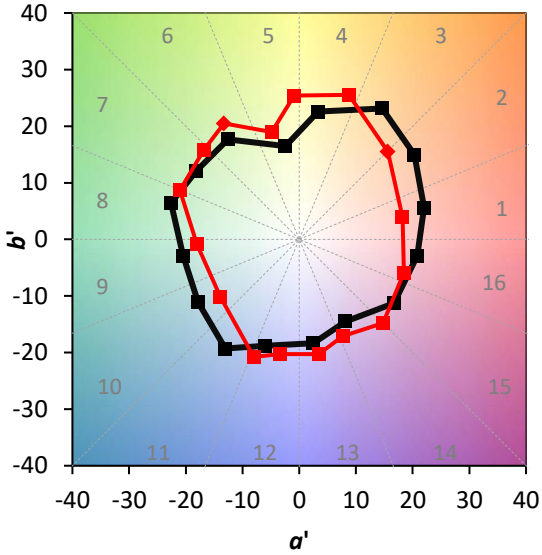
$R_f$ = 71.4
$R_g$ = 96
CIE $R_a$ = 70.1
$R_9$ = -40.2

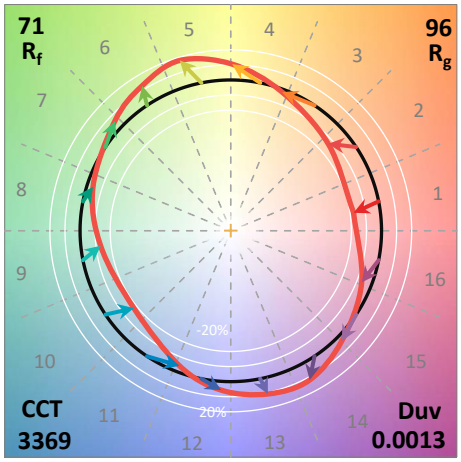
## Spectral Power Distribution Comparison

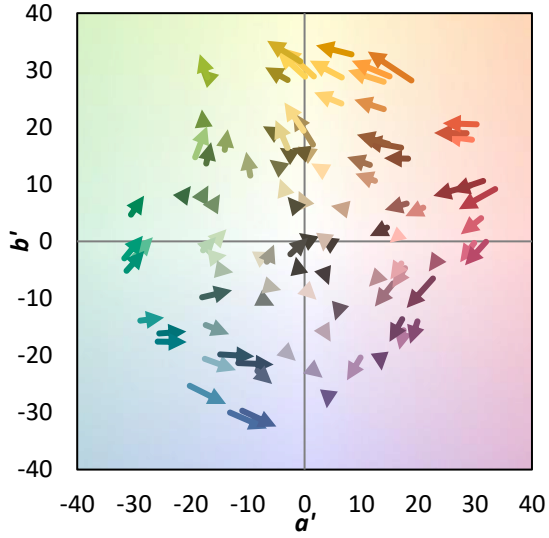



## Color Vector Graphics



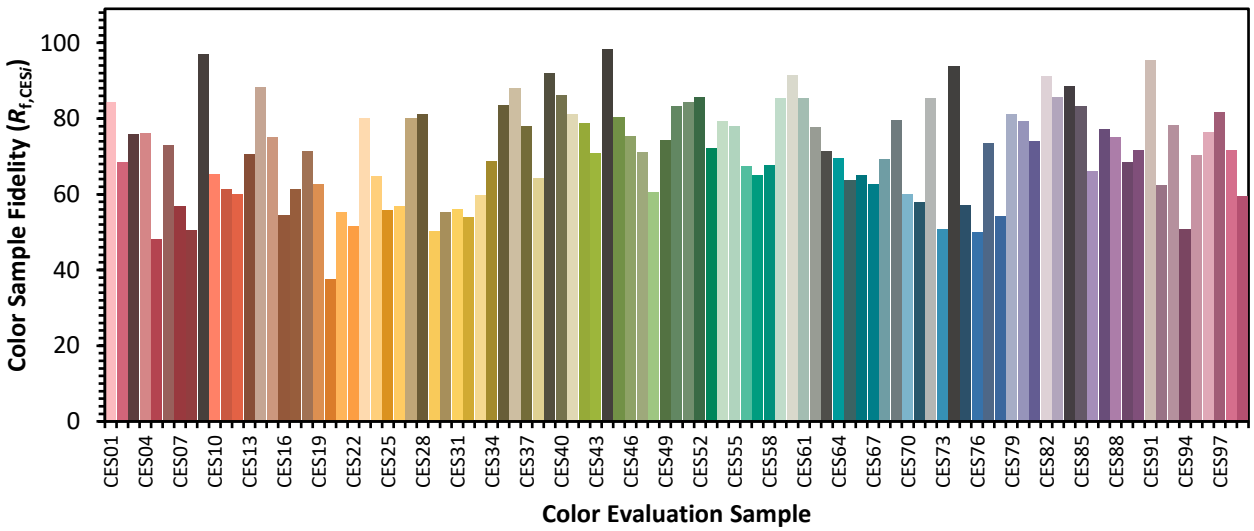



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## Individual Sample Fidelity Index ($R_{f,i}$)

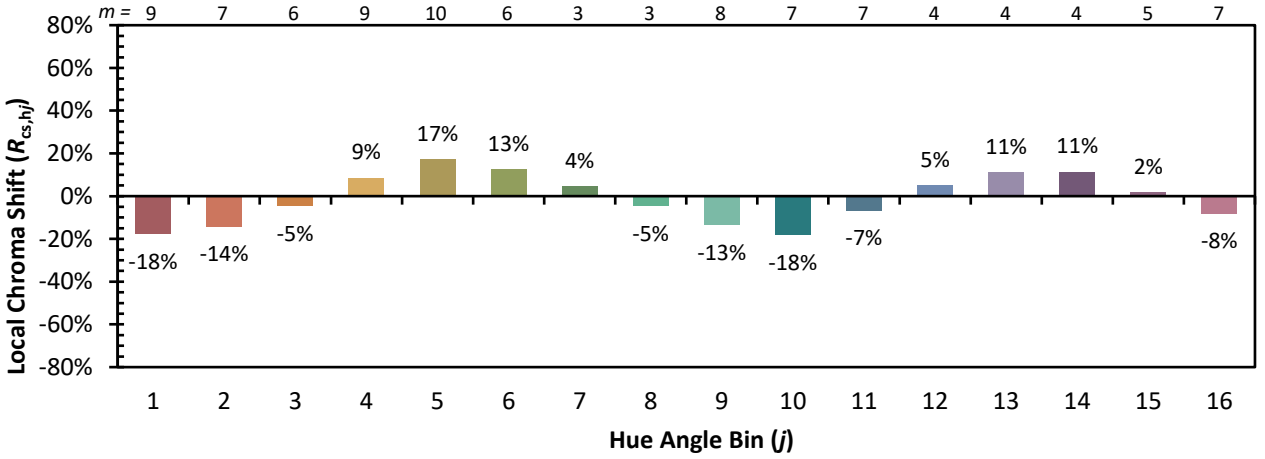
| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 57 | CES51 = 84 | CES76 = 50 |
| CES02 = 62 | CES27 = 80 | CES52 = 86 | CES77 = 74 |
| CES03 = 31 | CES28 = 81 | CES53 = 72 | CES78 = 54 |
| CES04 = 70 | CES29 = 50 | CES54 = 79 | CES79 = 81 |
| CES05 = 48 | CES30 = 55 | CES55 = 78 | CES80 = 79 |
| CES06 = 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 | |

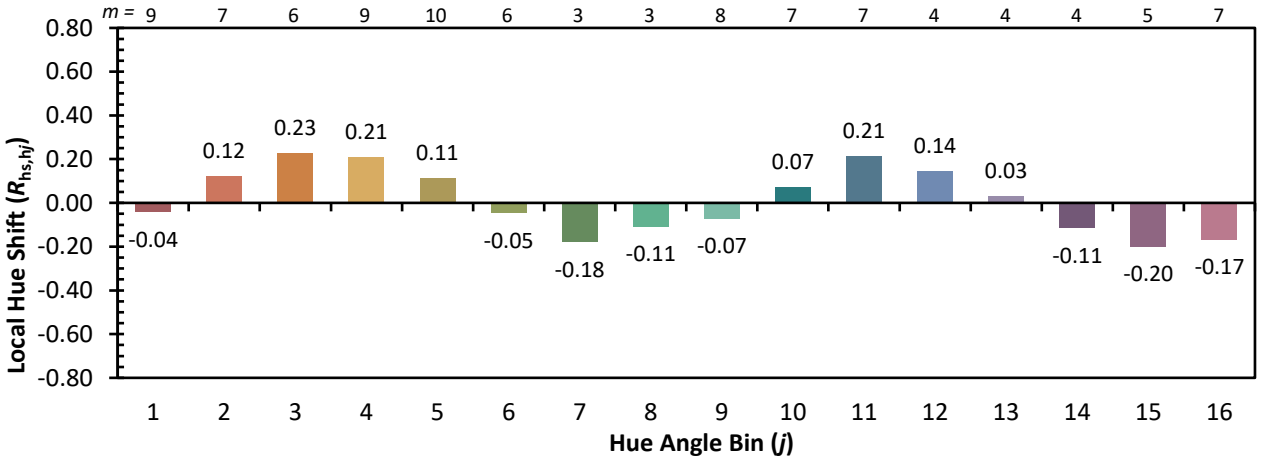


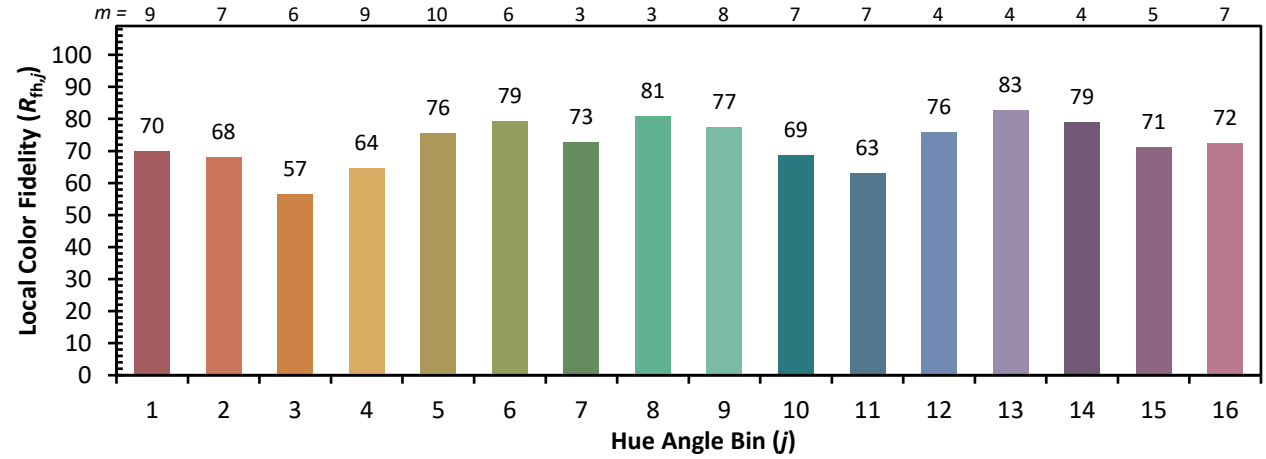
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## Color Rendition by Hue-Angle Bin



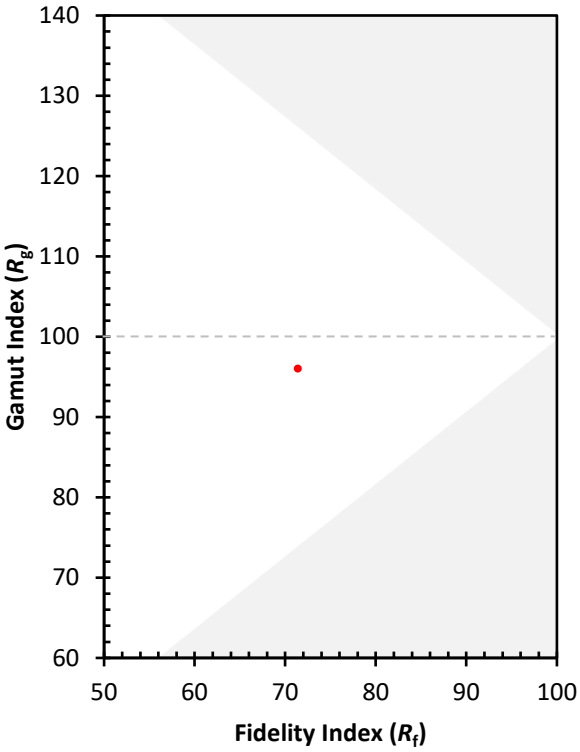



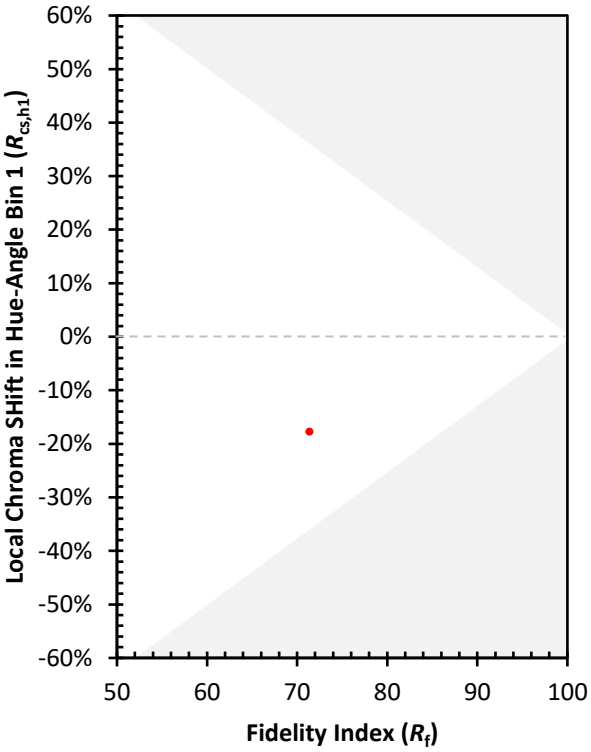



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## Measure Comparisons




(END OF REPORT)