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: P1359148

Luminaire Tested: **GSS-SB6B-740-U-T2**

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: | P1359148 |
| Test Lab: | INNOVATION CENTER(G3) |
| Issue Date: | 02/18/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB6B-740-U-T2 |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 6SQUARE 219W 70CRI 4000K FIXTURE w/ TYPE II DISTRIBUTION OPTIC |
| Light Source: | (156) 4000K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 33907.7 lumens |
| Efficiency: | N/A |
| Efficacy: | 154.8 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1' x H: 0') |
| IES Classification: | Type II - Medium |
| BUG Rating: | B3 - U0 - G4 |

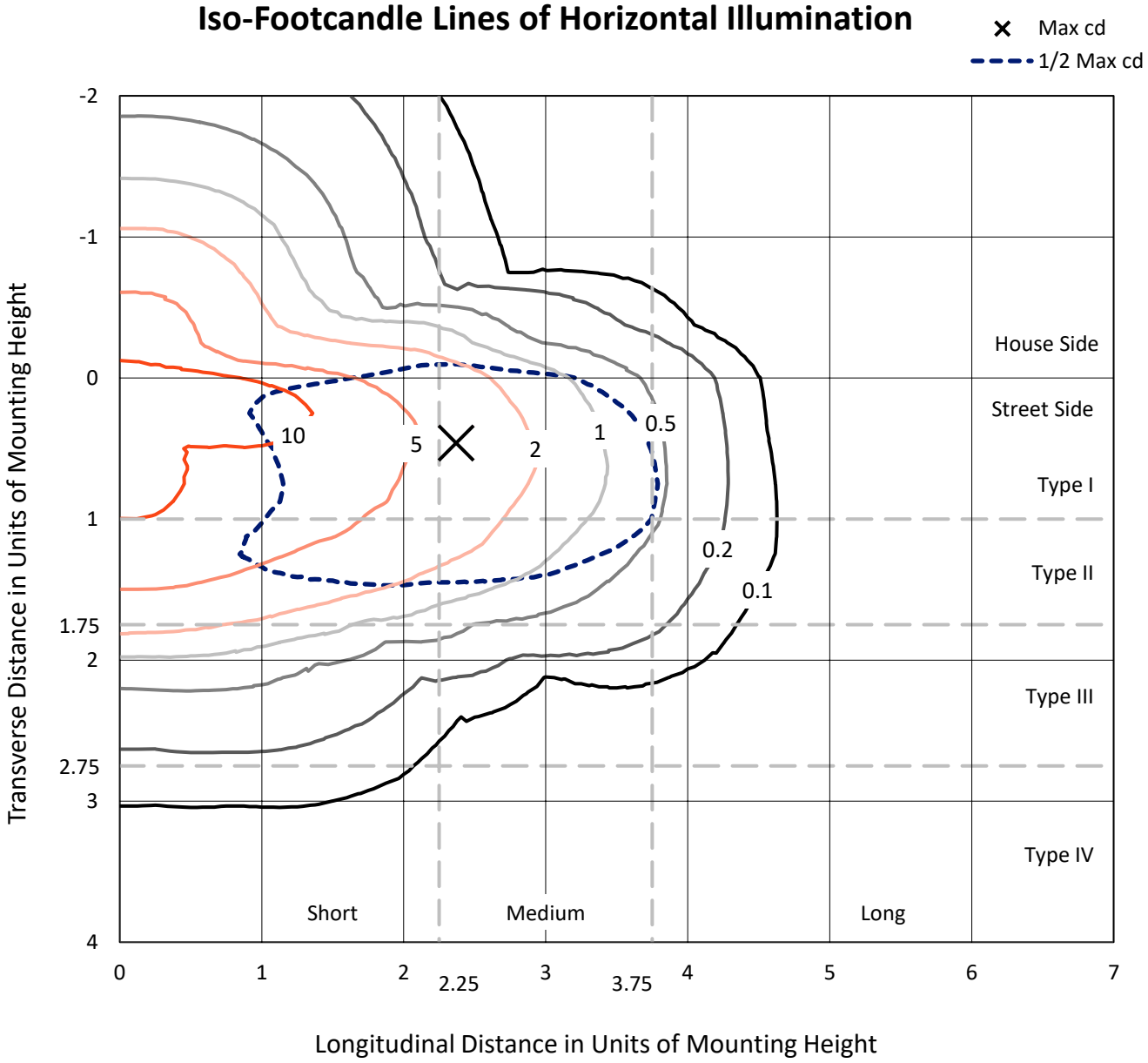
| | |
|---|---|
| Input Watts (W): | 219 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 8.7% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature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

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Scaled Data Report

REPORT NUMBER: P1359148
CATALOG NUMBER: GSS-SB6B-740-U-T2

## Iso-Footcandle Lines of Horizontal Illumination



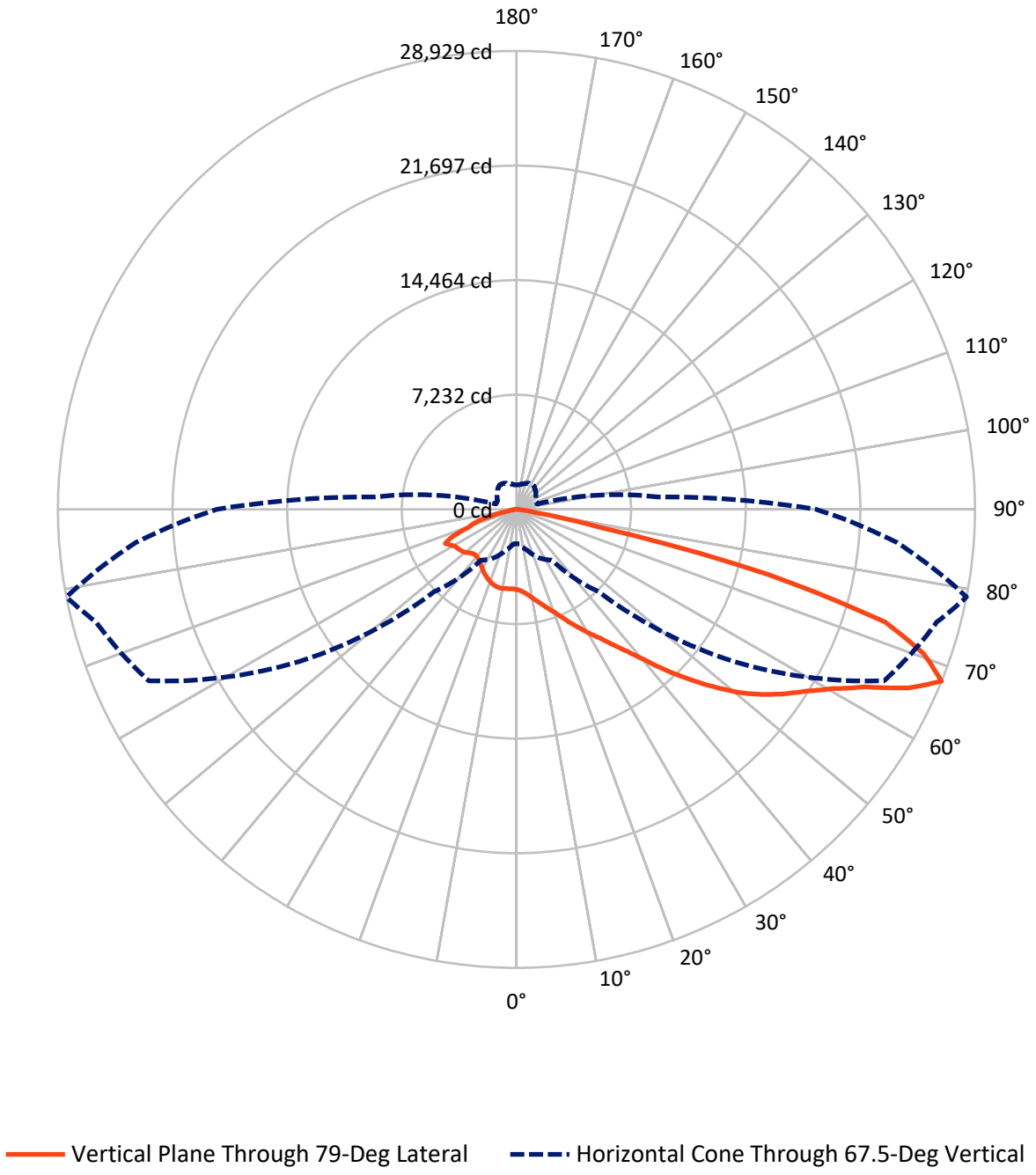

Based on 20 foot mounting height. Maximum calculated value = 15.1 fc
Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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Scaled Data Report

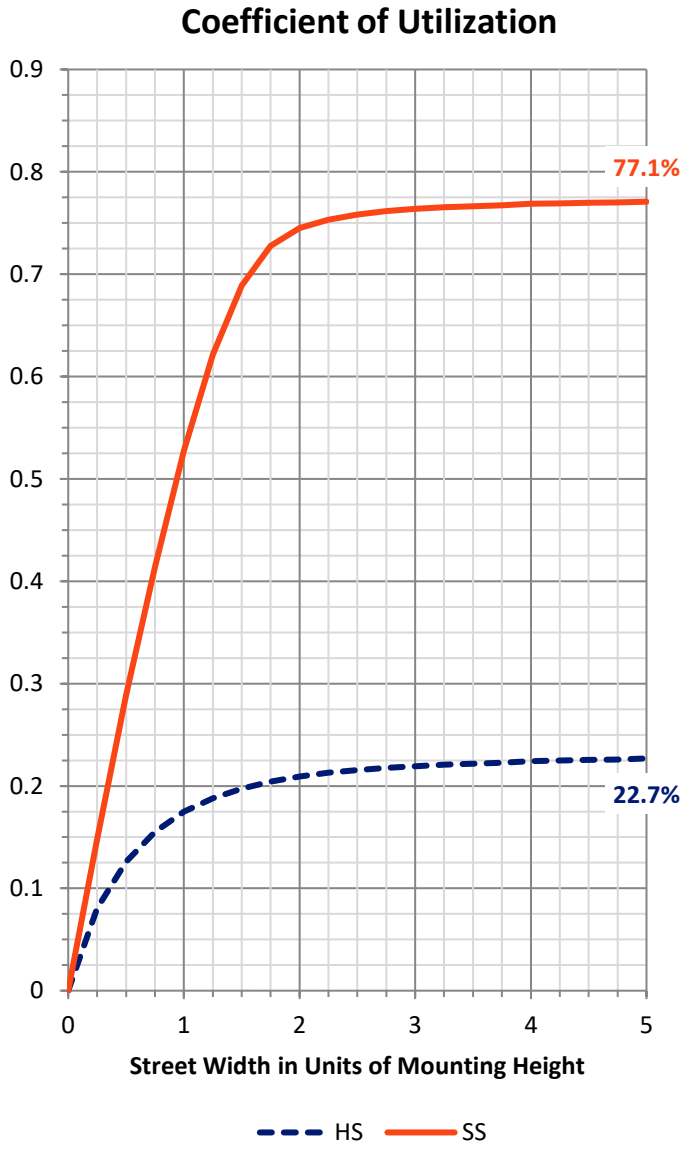
REPORT NUMBER: P1359148
CATALOG NUMBER: GSS-SB6B-740-U-T2

**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 7769.1 | 0.0 | 7769.1 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| **Street Side** | Lumens | 26138.7 | 0.0 | 26138.7 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| **Total** | Lumens | 33907.7 | 0.0 | 33907.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 483.3 | 1.4 |
| 10°-20° | 1454.9 | 4.3 |
| 20°-30° | 2458.2 | 7.2 |
| 30°-40° | 3792.2 | 11.2 |
| 40°-50° | 5791.4 | 17.1 |
| 50°-60° | 8007.4 | 23.6 |
| 60°-70° | 8092.1 | 23.9 |
| 70°-80° | 3560.2 | 10.5 |
| 80°-90° | 268.2 | 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° | 33907.7 | 100.0 |
| 0°-180° | 33907.7 | 100.0 |



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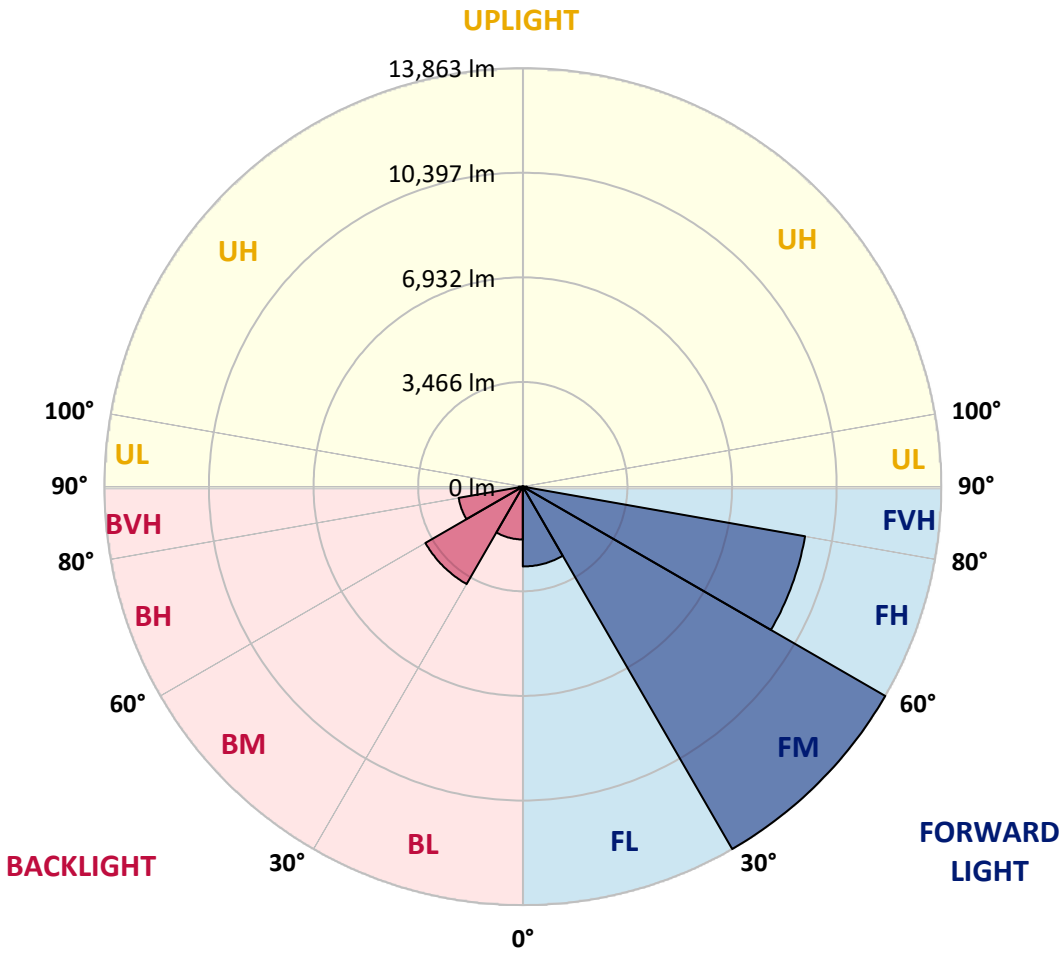
Scaled Data Report

REPORT NUMBER: P1359148
CATALOG NUMBER: GSS-SB6B-740-U-T2

## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 2645.4 | 7.8 | | | |
| FM | (30°-60°) | 13863.1 | 40.9 | | | |
| FH | (60°-80°) | 9494.3 | 28.0 | | | G4/12000 |
| FVH | (80°-90°) | 135.9 | 0.4 | | | G2/225 |
| BL | (0°-30°) | 1750.9 | 5.2 | B3/2500 | | |
| BM | (30°-60°) | 3727.8 | 11.0 | B3/5000 | | |
| BH | (60°-80°) | 2158.0 | 6.4 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 132.3 | 0.4 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B3-U0-G4**
Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 5057.4 | 5057.4 | 5057.4 | 5057.4 | 5057.4 | 5057.4 | 5057.4 | 5057.4 | 5057.4 | *5057.4* | 5057.4 |
| 2.5° | 5292.1 | 5375.4 | 5375.4 | 5337.5 | 5322.4 | 5314.8 | 5261.8 | 5201.3 | 5178.6 | *5140.7* | 5118.0 |
| 5° | 5617.7 | 5617.7 | 5632.8 | 5595.0 | 5617.7 | 5587.4 | 5511.7 | 5436.0 | 5345.1 | *5277.0* | 5246.7 |
| 7.5° | 5648.0 | 5708.5 | 5746.4 | 5746.4 | 5791.8 | 5799.4 | 5761.5 | 5678.2 | 5564.7 | *5458.7* | 5405.7 |
| 10° | 5678.2 | 5731.2 | 5731.2 | 5791.8 | 5890.2 | 5965.9 | 5988.7 | 5958.4 | 5776.7 | *5701.0* | 5595.0 |
| 12.5° | 5610.1 | 5670.7 | 5693.4 | 5814.5 | 5950.8 | 6094.6 | 6200.6 | 6215.8 | 6102.2 | *5965.9* | 5806.9 |
| 15° | 5375.4 | 5428.4 | 5519.3 | 5701.0 | 5943.2 | 6162.8 | 6367.2 | 6480.8 | 6352.1 | *6253.6* | 6034.1 |
| 17.5° | 5057.4 | 5087.7 | 5239.1 | 5473.8 | 5806.9 | 6177.9 | 6533.8 | 6753.3 | 6723.0 | *6594.3* | 6336.9 |
| 20° | 5027.1 | 5057.4 | 5102.8 | 5277.0 | 5663.1 | 6124.9 | 6639.8 | 7063.7 | 7147.0 | *6950.2* | 6632.2 |
| 22.5° | 5284.5 | 5314.8 | 5314.8 | 5337.5 | 5579.8 | 6079.5 | 6745.8 | 7396.9 | 7586.1 | *7419.6* | 7010.7 |
| 25° | 5640.4 | 5701.0 | 5632.8 | 5579.8 | 5663.1 | 6109.8 | 6806.3 | 7775.4 | 8146.4 | *7942.0* | 7434.7 |
| 27.5° | 6147.6 | 6140.1 | 6079.5 | 5920.5 | 5897.8 | 6200.6 | 6972.9 | 8070.7 | 8683.9 | *8471.9* | 7873.8 |
| 30° | 6851.7 | 6889.6 | 6753.3 | 6420.2 | 6268.8 | 6405.1 | 7200.0 | 8312.9 | 9251.7 | *9077.6* | 8290.2 |
| 32.5° | 7646.7 | 7631.6 | 7465.0 | 7147.0 | 6776.0 | 6738.2 | 7412.0 | 8570.4 | 9902.9 | *9683.3* | 8812.6 |
| 35° | 8502.2 | 8487.1 | 8434.1 | 7889.0 | 7404.4 | 7200.0 | 7752.7 | 8865.6 | 10660.0 | *10478.2* | 9425.9 |
| 37.5° | 9274.5 | 9342.6 | 9501.6 | 8623.4 | 8108.5 | 7805.7 | 8191.8 | 9357.7 | 11629.0 | *11364.1* | 10167.8 |
| 40° | 9933.1 | 10054.3 | 10205.7 | 9410.7 | 8767.2 | 8509.8 | 8774.8 | 10160.3 | 12666.3 | *12507.3* | 11061.2 |
| 42.5° | 10538.8 | 10622.1 | 10607.0 | 10122.4 | 9569.7 | 9282.0 | 9509.2 | 10993.1 | 14006.3 | *13892.8* | 12159.0 |
| 45° | 11280.8 | 11371.6 | 11333.8 | 10871.9 | 10319.3 | 10061.8 | 10470.7 | 11969.7 | 15278.3 | *15293.4* | 13196.2 |
| 47.5° | 12007.6 | 12098.4 | 12075.7 | 11651.8 | 11121.8 | 10909.8 | 11470.0 | 13120.5 | 16504.8 | *16709.2* | 14324.3 |
| 50° | 12689.0 | 12772.3 | 12817.7 | 12552.7 | 12090.9 | 11863.7 | 12446.7 | 14203.2 | 17693.4 | *18155.2* | 15399.4 |
| 52.5° | 12878.3 | 12984.2 | 13294.7 | 13393.1 | 13188.7 | 12916.1 | 13340.1 | 15240.4 | 18715.5 | *19404.4* | 16436.6 |
| 55° | 12257.4 | 12439.1 | 13105.4 | 13605.1 | 14210.7 | 14241.0 | 14271.3 | 16247.3 | 19608.9 | *20532.5* | 17383.0 |
| 57.5° | 11174.8 | 11205.1 | 11984.9 | 12999.4 | 14437.9 | 15724.9 | 15876.4 | 17420.8 | 20479.5 | *21630.3* | 18321.8 |
| 60° | 8774.8 | 8615.8 | 9880.1 | 11598.8 | 13620.2 | 16315.5 | 18435.4 | 19237.9 | 21562.2 | *22955.2* | 19449.9 |
| 62.5° | 4701.6 | 4716.7 | 5761.5 | 7896.5 | 11280.8 | 15740.1 | 20630.9 | 21948.3 | 23144.5 | *24673.8* | 21123.1 |
| 65° | 2952.7 | 3066.3 | 3656.8 | 4603.2 | 6829.0 | 12507.3 | 20767.2 | 25552.1 | 25650.5 | *27172.3* | 23220.2 |
| 67.5° | *2157.7* | *2188.0* | *2687.7* | *3376.7* | *3914.2* | *7336.3* | *16716.7* | *25597.5* | *27460.0* | *28928.7* | *24113.6* |
| 70° | 1605.0 | 1620.2 | 1976.0 | 2543.9 | 2854.3 | 3437.2 | 10652.4 | 22152.7 | 26521.2 | *27248.0* | 21880.2 |
| 72.5° | 1173.5 | 1181.1 | 1370.3 | 1870.0 | 2248.6 | 2044.2 | 5004.4 | 15959.6 | 23030.9 | *24325.6* | 19684.6 |
| 75° | 825.2 | 840.4 | 976.7 | 1294.6 | 1514.2 | 1423.3 | 1907.9 | 9978.6 | 16535.0 | *16391.2* | 13748.9 |
| 77.5° | 620.8 | 628.4 | 719.2 | 916.1 | 1029.7 | 931.2 | 1075.1 | 4663.7 | 5905.4 | *5330.0* | 4338.2 |
| 80° | 454.3 | 477.0 | 522.4 | 575.4 | 689.0 | 598.1 | 605.7 | 1309.8 | 1423.3 | *1249.2* | 1120.5 |
| 82.5° | 242.3 | 272.6 | 348.3 | 348.3 | 401.3 | 355.8 | 318.0 | 583.0 | 613.3 | *575.4* | 499.7 |
| 85° | 75.7 | 75.7 | 83.3 | 106.0 | 159.0 | 159.0 | 159.0 | 196.8 | 204.4 | *204.4* | 174.1 |
| 87.5° | 15.1 | 15.1 | 15.1 | 15.1 | 22.7 | 30.3 | 45.4 | 60.6 | 68.1 | *75.7* | 75.7 |
| 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: P1359148
CATALOG NUMBER: GSS-SB6B-740-U-T2

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 5057.4 | 5057.4 | 5057.4 | 5057.4 | 5057.4 | 5057.4 | 5057.4 | 5057.4 | 5057.4 | 5057.4 | 5057.4 |
| 2.5° | 5102.8 | 5049.8 | 4996.9 | 4906.0 | 4860.6 | 4792.4 | 4731.9 | 4701.6 | 4678.9 | 4671.3 | 4671.3 |
| 5° | 5201.3 | 5118.0 | 4951.4 | 4792.4 | 4648.6 | 4519.9 | 4421.5 | 4345.7 | 4300.3 | 4262.5 | 4262.5 |
| 7.5° | 5299.7 | 5186.1 | 4936.3 | 4656.2 | 4451.7 | 4292.8 | 4156.5 | 4111.0 | 4095.9 | 4058.0 | 4035.3 |
| 10° | 5466.3 | 5284.5 | 4913.6 | 4512.3 | 4224.6 | 4088.3 | 4027.8 | 4012.6 | 4020.2 | 4027.8 | 4027.8 |
| 12.5° | 5595.0 | 5398.1 | 4853.0 | 4330.6 | 4050.5 | 3974.8 | 3982.3 | 4020.2 | 4080.8 | 4073.2 | 4058.0 |
| 15° | 5776.7 | 5481.4 | 4731.9 | 4118.6 | 3914.2 | 3914.2 | 3989.9 | 4073.2 | 4133.8 | 4171.6 | 4148.9 |
| 17.5° | 5988.7 | 5579.8 | 4550.2 | 3921.8 | 3800.6 | 3868.8 | 4027.8 | 4111.0 | 4217.0 | 4239.8 | 4224.6 |
| 20° | 6253.6 | 5663.1 | 4345.7 | 3732.5 | 3724.9 | 3868.8 | 4005.1 | 4126.2 | 4209.5 | 4232.2 | 4247.3 |
| 22.5° | 6511.0 | 5738.8 | 4080.8 | 3596.2 | 3641.6 | 3823.3 | 3952.1 | 4080.8 | 4118.6 | 4141.3 | 4148.9 |
| 25° | 6776.0 | 5814.5 | 3838.5 | 3490.2 | 3581.1 | 3762.8 | 3868.8 | 3921.8 | 3929.3 | 3914.2 | 3914.2 |
| 27.5° | 7063.7 | 5822.1 | 3596.2 | 3406.9 | 3512.9 | 3671.9 | 3732.5 | 3747.6 | 3717.4 | 3611.4 | 3581.1 |
| 30° | 7366.6 | 5746.4 | 3399.4 | 3331.2 | 3437.2 | 3565.9 | 3611.4 | 3565.9 | 3459.9 | 3308.5 | 3293.4 |
| 32.5° | 7616.4 | 5632.8 | 3255.5 | 3240.4 | 3353.9 | 3467.5 | 3467.5 | 3384.2 | 3225.2 | 3073.8 | 3066.3 |
| 35° | 7995.0 | 5473.8 | 3111.7 | 3179.8 | 3278.2 | 3331.2 | 3346.4 | 3225.2 | 3051.1 | 2907.3 | 2892.1 |
| 37.5° | 8365.9 | 5337.5 | 3051.1 | 3104.1 | 3195.0 | 3240.4 | 3195.0 | 3073.8 | 2960.3 | 2839.1 | 2839.1 |
| 40° | 8941.3 | 5254.3 | 2975.4 | 3051.1 | 3126.8 | 3134.4 | 3051.1 | 2960.3 | 2975.4 | 2907.3 | 2899.7 |
| 42.5° | 9569.7 | 5246.7 | 2945.1 | 2998.1 | 3051.1 | 3036.0 | 2914.8 | 2914.8 | 2937.5 | 2808.8 | 2778.6 |
| 45° | 10289.0 | 5352.7 | 2945.1 | 2922.4 | 2952.7 | 2907.3 | 2839.1 | 2824.0 | 2771.0 | 2581.7 | 2574.1 |
| 47.5° | 11038.5 | 5610.1 | 2960.3 | 2816.4 | 2808.8 | 2793.7 | 2763.4 | 2710.4 | 2551.4 | 2392.4 | 2369.7 |
| 50° | 11629.0 | 5965.9 | 3005.7 | 2680.1 | 2649.8 | 2702.8 | 2649.8 | 2559.0 | 2377.3 | 2225.9 | 2203.2 |
| 52.5° | 12333.1 | 6321.8 | 2975.4 | 2513.6 | 2475.7 | 2612.0 | 2559.0 | 2430.3 | 2294.0 | 2203.2 | 2180.4 |
| 55° | 13075.1 | 6692.8 | 2854.3 | 2286.4 | 2316.7 | 2498.4 | 2483.3 | 2339.4 | 2172.9 | 2051.7 | 2036.6 |
| 57.5° | 13817.1 | 7162.2 | 2649.8 | 2089.6 | 2203.2 | 2430.3 | 2369.7 | 2195.6 | 2082.0 | 1998.7 | 1983.6 |
| 60° | 14952.7 | 7836.0 | 2354.6 | 1885.2 | 2089.6 | 2286.4 | 2188.0 | 2135.0 | 2013.9 | 1945.7 | 1907.9 |
| 62.5° | 16421.5 | 8956.5 | 1968.5 | 1695.9 | 1930.6 | 2112.3 | 2104.7 | 2044.2 | 1938.2 | 1862.5 | 1839.8 |
| 65° | 18511.1 | 10024.0 | 1612.6 | 1514.2 | 1726.2 | 1900.3 | 1991.2 | 1938.2 | 1832.2 | 1748.9 | 1741.3 |
| 67.5° | *18912.3* | *8956.5* | *1340.1* | *1324.9* | *1499.1* | *1695.9* | *1870.0* | *1832.2* | *1665.6* | *1559.6* | *1544.5* |
| 70° | 16459.3 | 6397.5 | 1128.1 | 1143.2 | 1309.8 | 1483.9 | 1673.2 | 1582.3 | 1446.1 | 1385.5 | 1377.9 |
| 72.5° | 14612.0 | 5496.5 | 946.4 | 976.7 | 1097.8 | 1256.8 | 1370.3 | 1400.6 | 1302.2 | 1249.2 | 1226.5 |
| 75° | 10531.2 | 4118.6 | 764.7 | 802.5 | 885.8 | 976.7 | 1188.6 | 1241.6 | 1150.8 | 1097.8 | 1059.9 |
| 77.5° | 3906.6 | 1718.6 | 567.8 | 605.7 | 666.2 | 795.0 | 961.5 | 1075.1 | 1006.9 | 1044.8 | 938.8 |
| 80° | 938.8 | 605.7 | 416.4 | 408.8 | 469.4 | 598.1 | 764.7 | 848.0 | 779.8 | 742.0 | 643.5 |
| 82.5° | 408.8 | 295.3 | 272.6 | 272.6 | 287.7 | 393.7 | 507.3 | 598.1 | 583.0 | 484.5 | 461.8 |
| 85° | 151.4 | 128.7 | 128.7 | 136.3 | 136.3 | 181.7 | 272.6 | 318.0 | 287.7 | 249.8 | 242.3 |
| 87.5° | 68.1 | 68.1 | 53.0 | 45.4 | 37.9 | 37.9 | 45.4 | 30.3 | 22.7 | 15.1 | 15.1 |
| 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: SP1-2407-184-1

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-740-U-5WQ

Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

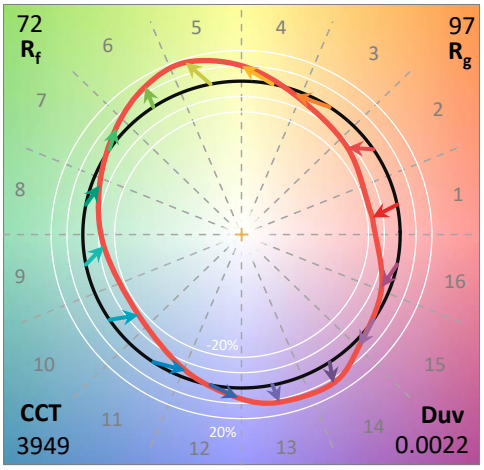
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2407-184-1 |
| 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-740-U-5WQ** |
| Description: | GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 4000K CCT 26 LEDS |

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 3949 |
| CIE u': | 0.2248 |
| CIE v': | 0.5053 |
| Duv: | 0.0022 |
| CIE x: | 0.3844 |
| CIE y: | 0.3840 |
| CIE z: | 0.2316 |
| Peak Wavelength (nm): | 440 |
| Dominant Wavelength (nm): | 578 |
| Purity: | 30.60026 |
| Rf: | 71.8 |
| Rg: | 96.5 |

| | |
|---|---|
| CRI (Ra): | 70.7 |
| R1: | 68.0 |
| R2: | 76.0 |
| R3: | 84.3 |
| R4: | 72.0 |
| R5: | 68.6 |
| R6: | 68.3 |
| R7: | 77.9 |
| R8: | 50.3 |
| R9: | -36.7 |
| R10: | 45.1 |
| R11: | 70.7 |
| R12: | 47.1 |
| R13: | 68.5 |
| R14: | 91.1 |
| R15: | 58.7 |




## Test Conditions

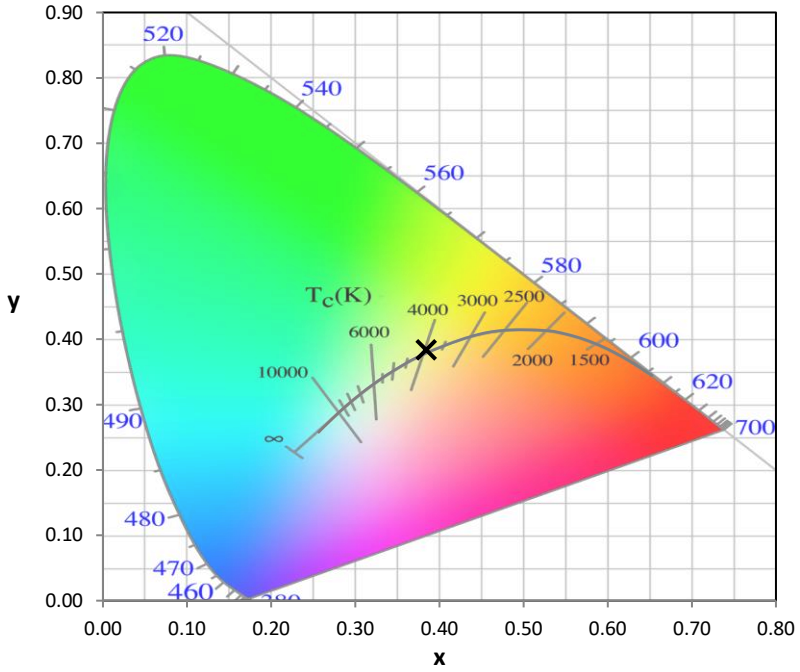
| | |
|---|---|
| Stabilization Time: | 34M |
| Operation Time: | 1H 34M |
| Sphere Temperature (°C): | 25.2 |

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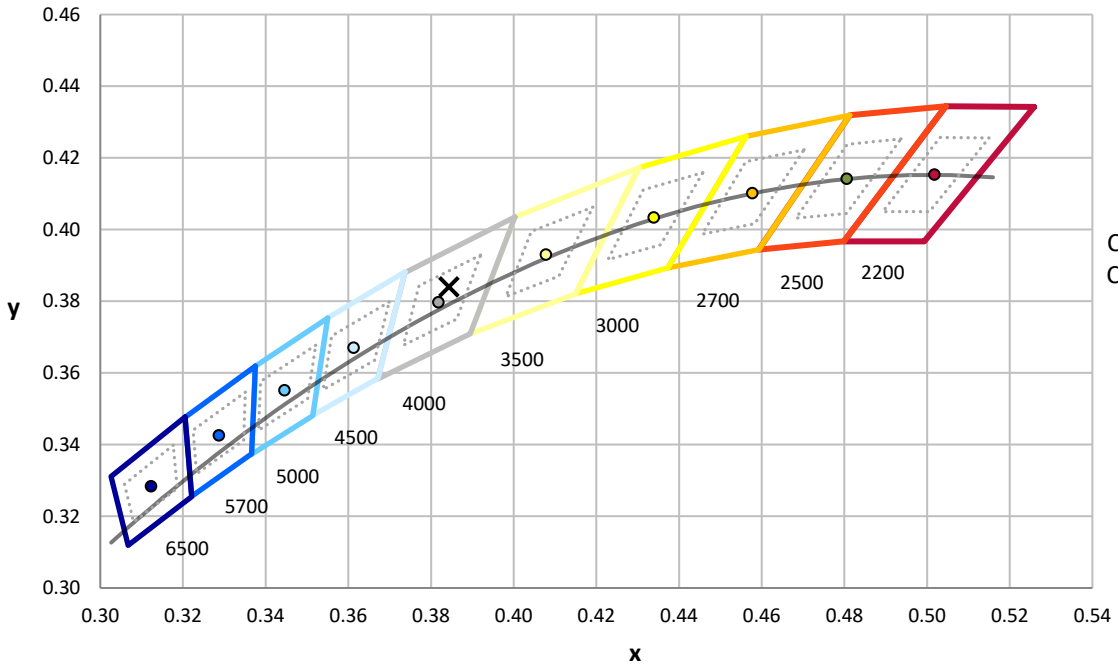
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC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

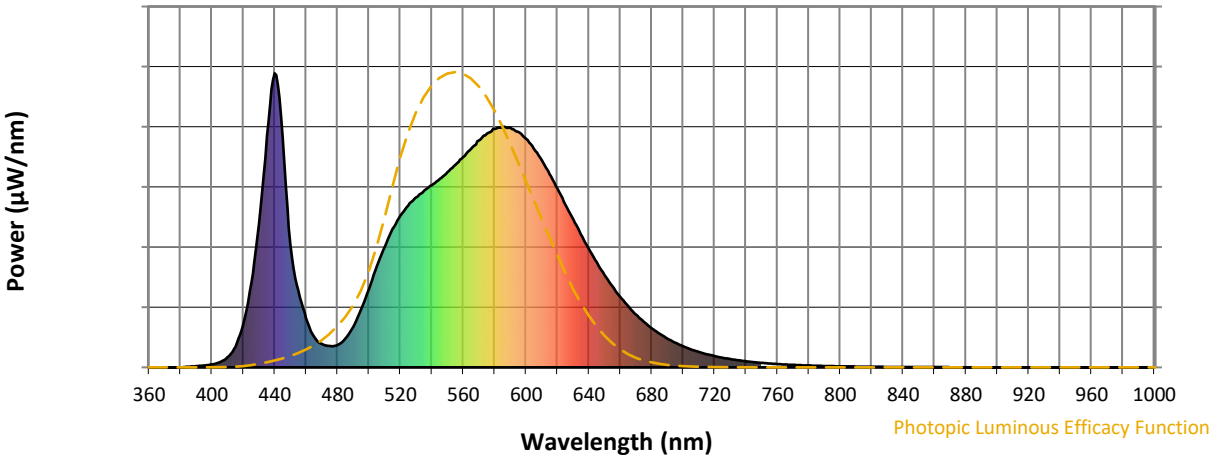



CCT = 3949K
CIE x = 0.3844
CIE y = 0.3840
Duv = 0.0022

Point lies inside the ANSI 4000K 4-step quadrangle

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## Photopic Flux vs. Wavelength

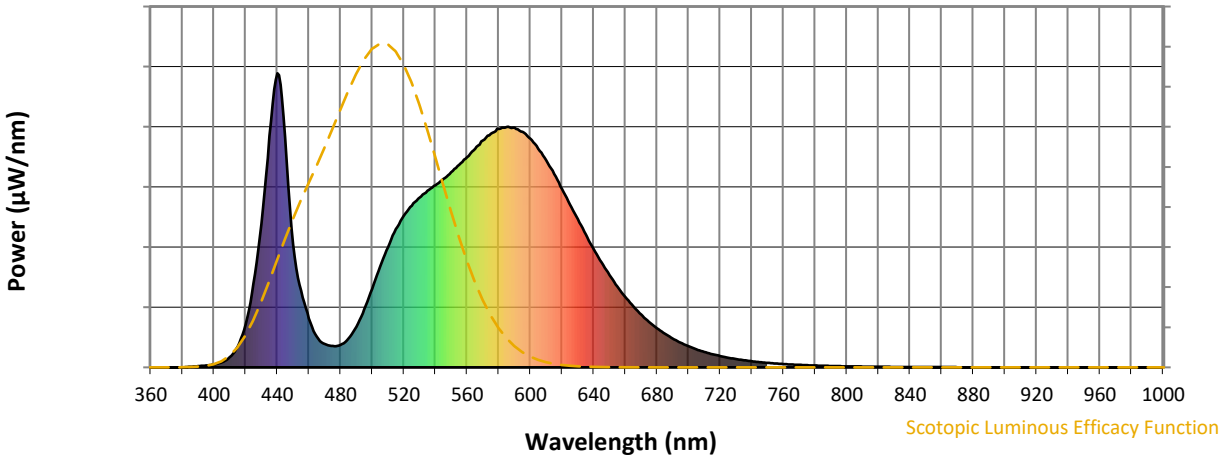



## Photopic Lumens: NR

| 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 | 139 | NR | 620 | 607 | NR | 750 | 15 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 198 | NR | 625 | 554 | NR | 755 | 13 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 267 | NR | 630 | 504 | NR | 760 | 11 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 343 | NR | 635 | 452 | NR | 765 | 10 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 410 | NR | 640 | 403 | NR | 770 | 8 | NR | 900 | 0 | NR |
| 385 | 2 | NR | 515 | 470 | NR | 645 | 357 | NR | 775 | 7 | NR | 905 | 0 | NR |
| 390 | 4 | NR | 520 | 516 | NR | 650 | 314 | NR | 780 | 6 | NR | 910 | 0 | NR |
| 395 | 7 | NR | 525 | 550 | NR | 655 | 275 | NR | 785 | 5 | NR | 915 | 0 | NR |
| 400 | 10 | NR | 530 | 578 | NR | 660 | 240 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 17 | NR | 535 | 601 | NR | 665 | 208 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 35 | NR | 540 | 620 | NR | 670 | 179 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 70 | NR | 545 | 641 | NR | 675 | 155 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 147 | NR | 550 | 664 | NR | 680 | 133 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 285 | NR | 555 | 689 | NR | 685 | 114 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 487 | NR | 560 | 715 | NR | 690 | 98 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 787 | NR | 565 | 743 | NR | 695 | 84 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 1000 | NR | 570 | 771 | NR | 700 | 72 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 783 | NR | 575 | 794 | NR | 705 | 61 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 417 | NR | 580 | 811 | NR | 710 | 52 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 261 | NR | 585 | 817 | NR | 715 | 45 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 167 | NR | 590 | 815 | NR | 720 | 39 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 104 | NR | 595 | 801 | NR | 725 | 33 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 79 | NR | 600 | 777 | NR | 730 | 28 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 73 | NR | 605 | 744 | NR | 735 | 24 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 76 | NR | 610 | 704 | NR | 740 | 21 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 98 | NR | 615 | 657 | NR | 745 | 18 | NR | 875 | 1 | NR | | | |

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## Scotopic Flux vs. Wavelength

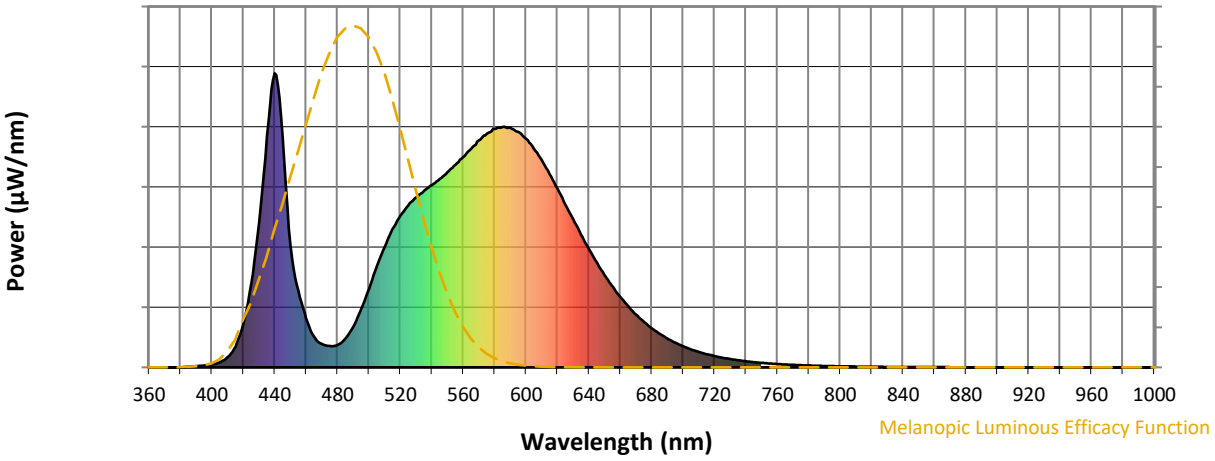



**Scotopic Lumens: NR** **S/P: 1.47**

| 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 | 139 | NR | 620 | 607 | NR | 750 | 15 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 198 | NR | 625 | 554 | NR | 755 | 13 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 267 | NR | 630 | 504 | NR | 760 | 11 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 343 | NR | 635 | 452 | NR | 765 | 10 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 410 | NR | 640 | 403 | NR | 770 | 8 | NR | 900 | 0 | NR |
| 385 | 2 | NR | 515 | 470 | NR | 645 | 357 | NR | 775 | 7 | NR | 905 | 0 | NR |
| 390 | 4 | NR | 520 | 516 | NR | 650 | 314 | NR | 780 | 6 | NR | 910 | 0 | NR |
| 395 | 7 | NR | 525 | 550 | NR | 655 | 275 | NR | 785 | 5 | NR | 915 | 0 | NR |
| 400 | 10 | NR | 530 | 578 | NR | 660 | 240 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 17 | NR | 535 | 601 | NR | 665 | 208 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 35 | NR | 540 | 620 | NR | 670 | 179 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 70 | NR | 545 | 641 | NR | 675 | 155 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 147 | NR | 550 | 664 | NR | 680 | 133 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 285 | NR | 555 | 689 | NR | 685 | 114 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 487 | NR | 560 | 715 | NR | 690 | 98 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 787 | NR | 565 | 743 | NR | 695 | 84 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 1000 | NR | 570 | 771 | NR | 700 | 72 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 783 | NR | 575 | 794 | NR | 705 | 61 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 417 | NR | 580 | 811 | NR | 710 | 52 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 261 | NR | 585 | 817 | NR | 715 | 45 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 167 | NR | 590 | 815 | NR | 720 | 39 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 104 | NR | 595 | 801 | NR | 725 | 33 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 79 | NR | 600 | 777 | NR | 730 | 28 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 73 | NR | 605 | 744 | NR | 735 | 24 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 76 | NR | 610 | 704 | NR | 740 | 21 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 98 | NR | 615 | 657 | NR | 745 | 18 | NR | 875 | 1 | NR | | | |

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## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 2.78**

| 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 | 139 | NR | 620 | 607 | NR | 750 | 15 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 198 | NR | 625 | 554 | NR | 755 | 13 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 267 | NR | 630 | 504 | NR | 760 | 11 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 343 | NR | 635 | 452 | NR | 765 | 10 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 410 | NR | 640 | 403 | NR | 770 | 8 | NR | 900 | 0 | NR |
| 385 | 2 | NR | 515 | 470 | NR | 645 | 357 | NR | 775 | 7 | NR | 905 | 0 | NR |
| 390 | 4 | NR | 520 | 516 | NR | 650 | 314 | NR | 780 | 6 | NR | 910 | 0 | NR |
| 395 | 7 | NR | 525 | 550 | NR | 655 | 275 | NR | 785 | 5 | NR | 915 | 0 | NR |
| 400 | 10 | NR | 530 | 578 | NR | 660 | 240 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 17 | NR | 535 | 601 | NR | 665 | 208 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 35 | NR | 540 | 620 | NR | 670 | 179 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 70 | NR | 545 | 641 | NR | 675 | 155 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 147 | NR | 550 | 664 | NR | 680 | 133 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 285 | NR | 555 | 689 | NR | 685 | 114 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 487 | NR | 560 | 715 | NR | 690 | 98 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 787 | NR | 565 | 743 | NR | 695 | 84 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 1000 | NR | 570 | 771 | NR | 700 | 72 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 783 | NR | 575 | 794 | NR | 705 | 61 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 417 | NR | 580 | 811 | NR | 710 | 52 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 261 | NR | 585 | 817 | NR | 715 | 45 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 167 | NR | 590 | 815 | NR | 720 | 39 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 104 | NR | 595 | 801 | NR | 725 | 33 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 79 | NR | 600 | 777 | NR | 730 | 28 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 73 | NR | 605 | 744 | NR | 735 | 24 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 76 | NR | 610 | 704 | NR | 740 | 21 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 98 | NR | 615 | 657 | NR | 745 | 18 | NR | 875 | 1 | NR | | | |

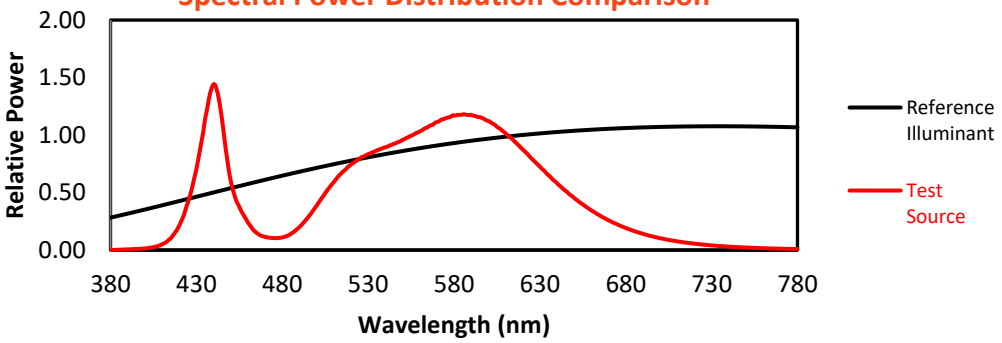
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# TM-30-18

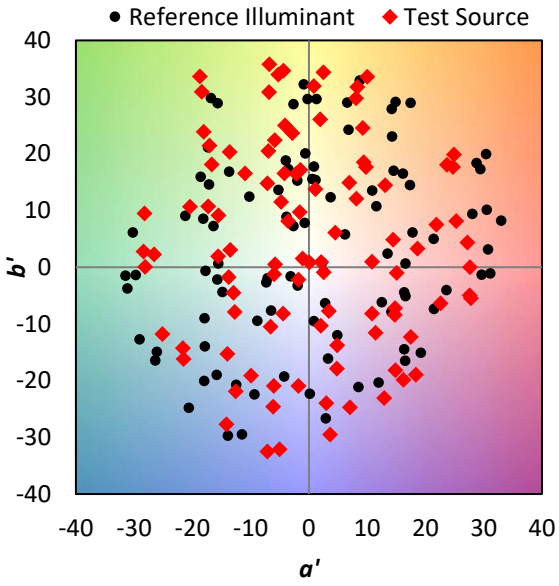
## Summary

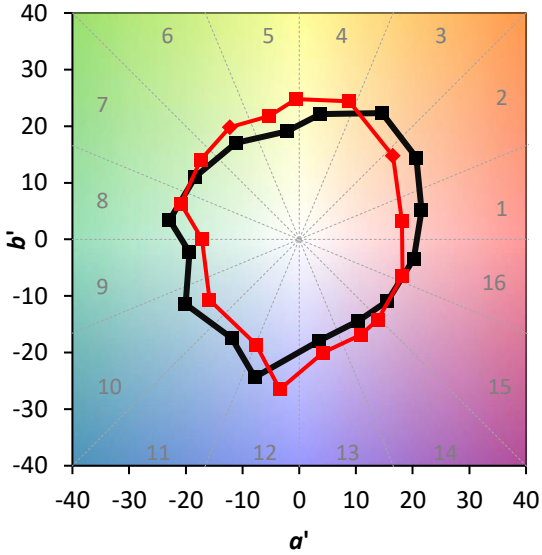
$R_f$ = 71.8
$R_g$ = 96.5
CIE $R_a$ = 70.7
$R_9$ = -36.7

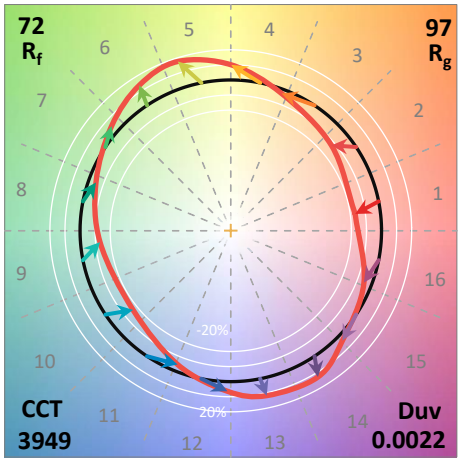
## Spectral Power Distribution Comparison

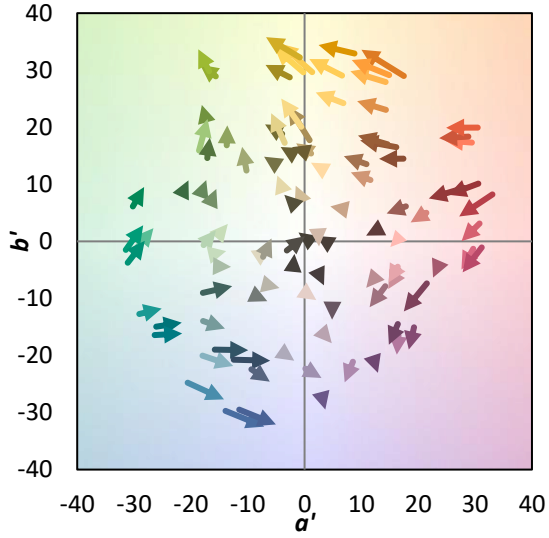



## Color Vector Graphics



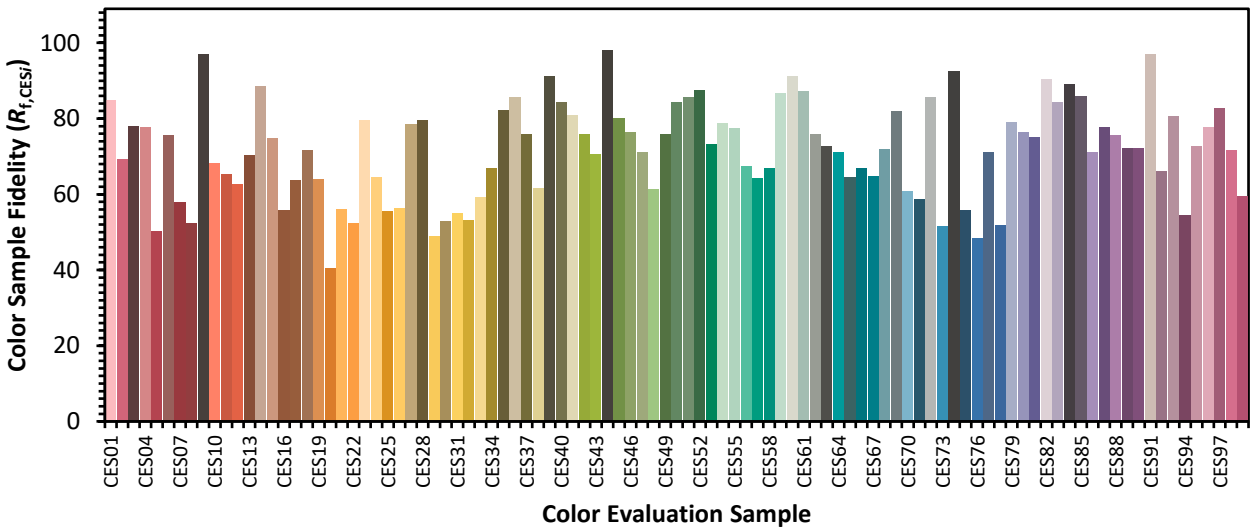



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**Individual Sample Fidelity Index ($R_{f,i}$)**

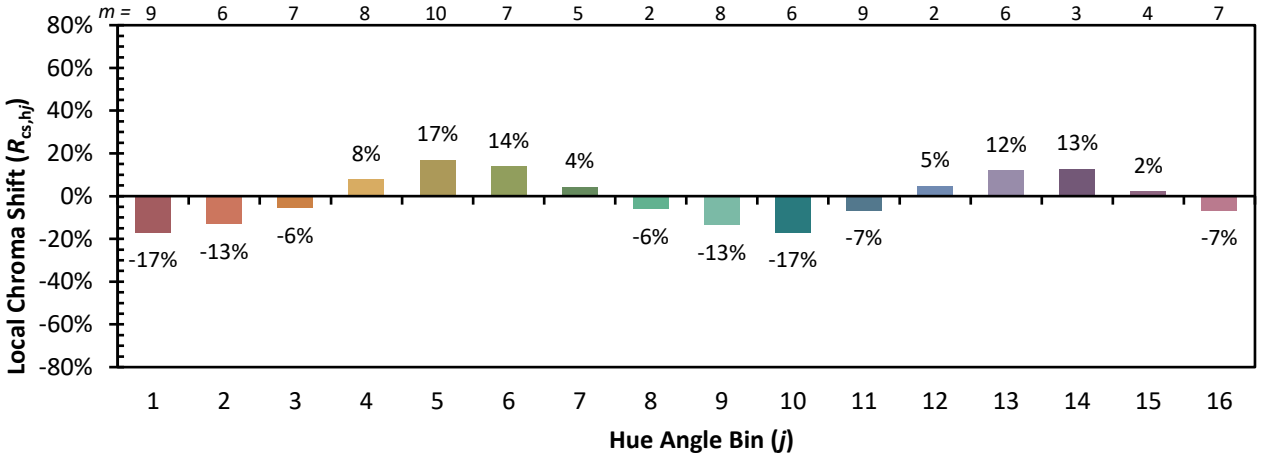
| | | | |
|---|---|---|---|
| CES01 = 85 | CES26 = 56 | CES51 = 86 | CES76 = 48 |
| CES02 = 61 | CES27 = 79 | CES52 = 88 | CES77 = 71 |
| CES03 = 30 | CES28 = 80 | CES53 = 73 | CES78 = 52 |
| CES04 = 70 | CES29 = 49 | CES54 = 79 | CES79 = 79 |
| CES05 = 47 | CES30 = 53 | CES55 = 77 | CES80 = 77 |
| CES06 = 50 | CES31 = 55 | CES56 = 67 | CES81 = 75 |
| CES07 = 40 | CES32 = 53 | CES57 = 64 | CES82 = 90 |
| CES08 = 39 | CES33 = 59 | CES58 = 67 | CES83 = 84 |
| CES09 = 29 | CES34 = 67 | CES59 = 87 | CES84 = 89 |
| CES10 = 74 | CES35 = 82 | CES60 = 91 | CES85 = 86 |
| CES11 = 57 | CES36 = 86 | CES61 = 87 | CES86 = 71 |
| CES12 = 63 | CES37 = 76 | CES62 = 76 | CES87 = 78 |
| CES13 = 42 | CES38 = 62 | CES63 = 73 | CES88 = 76 |
| CES14 = 74 | CES39 = 91 | CES64 = 71 | CES89 = 72 |
| CES15 = 71 | CES40 = 84 | CES65 = 64 | CES90 = 72 |
| CES16 = 46 | CES41 = 81 | CES66 = 67 | CES91 = 97 |
| CES17 = 49 | CES42 = 76 | CES67 = 65 | CES92 = 66 |
| CES18 = 56 | CES43 = 71 | CES68 = 72 | CES93 = 81 |
| CES19 = 72 | CES44 = 98 | CES69 = 82 | CES94 = 55 |
| CES20 = 65 | CES45 = 80 | CES70 = 61 | CES95 = 73 |
| CES21 = 86 | CES46 = 76 | CES71 = 59 | CES96 = 78 |
| CES22 = 78 | CES47 = 71 | CES72 = 86 | CES97 = 83 |
| CES23 = 92 | CES48 = 61 | CES73 = 52 | CES98 = 72 |
| CES24 = 91 | CES49 = 76 | CES74 = 93 | CES99 = 60 |
| CES25 = 72 | CES50 = 84 | CES75 = 56 | |

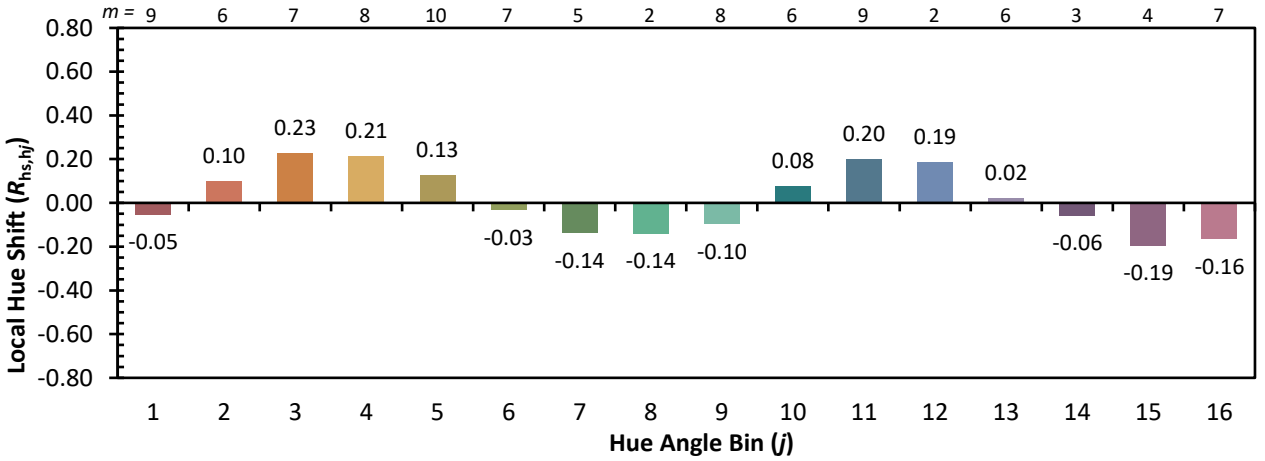


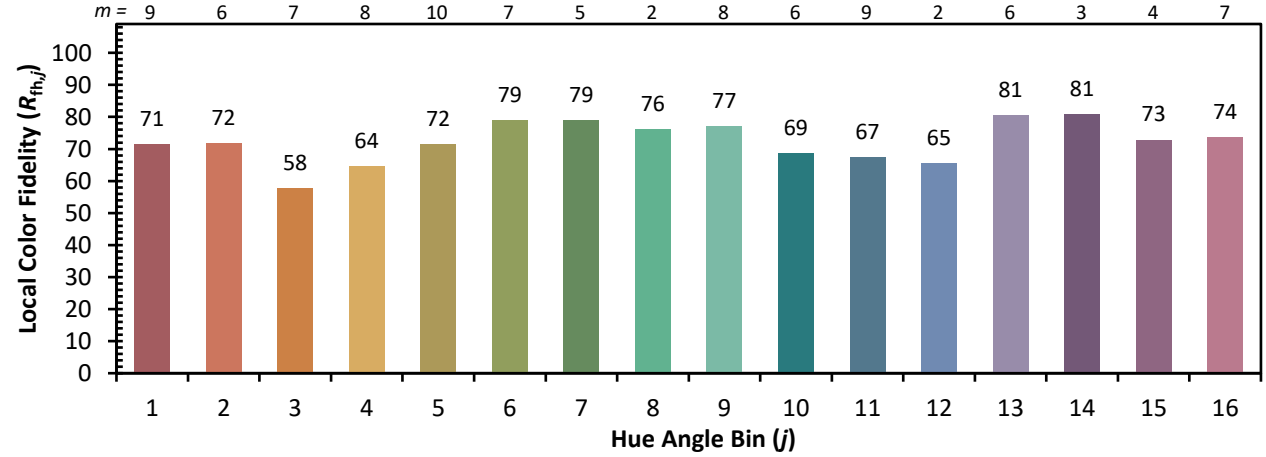
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## Color Rendition by Hue-Angle Bin



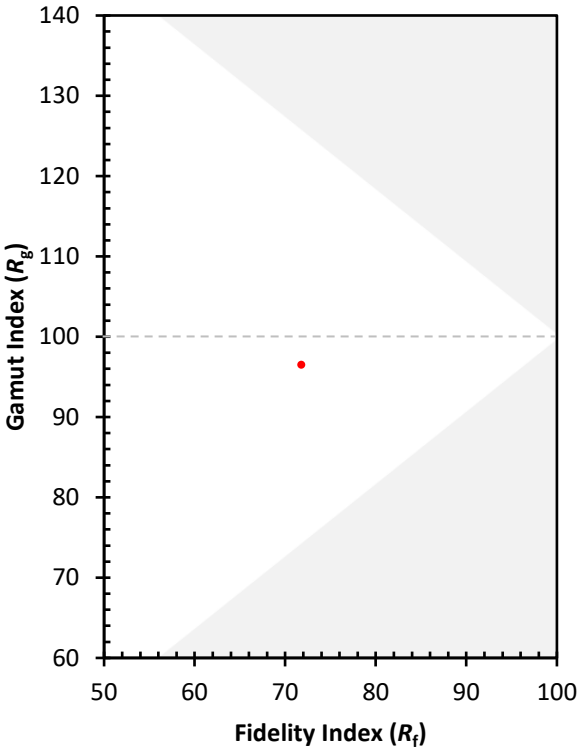



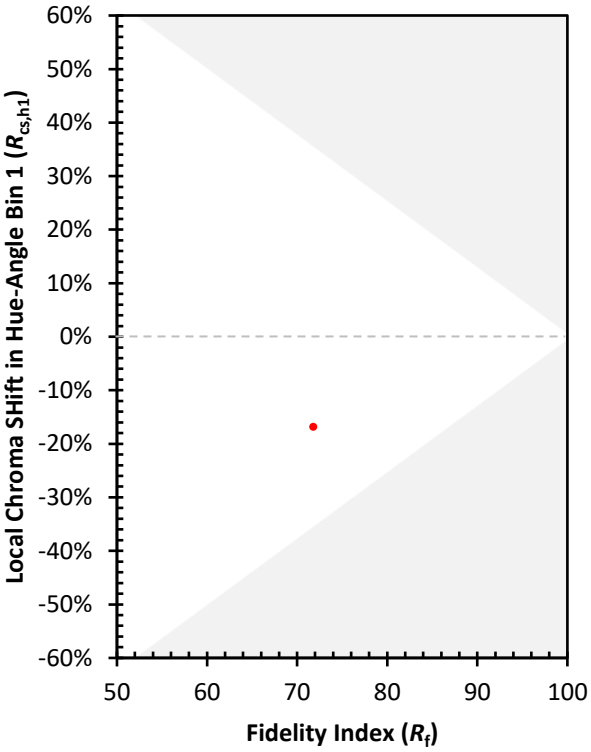



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## Measure Comparisons




(END OF REPORT)