

Signify Classified - Internal  
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: P1049825

Luminaire Tested: **GALN-SA2A-840-U-LBC**

Issue Date: 07/10/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1049825  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/10/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2A-840-U-LBC  
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 2xLight Square PACKAGE  
80CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (28) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6081.6 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G2

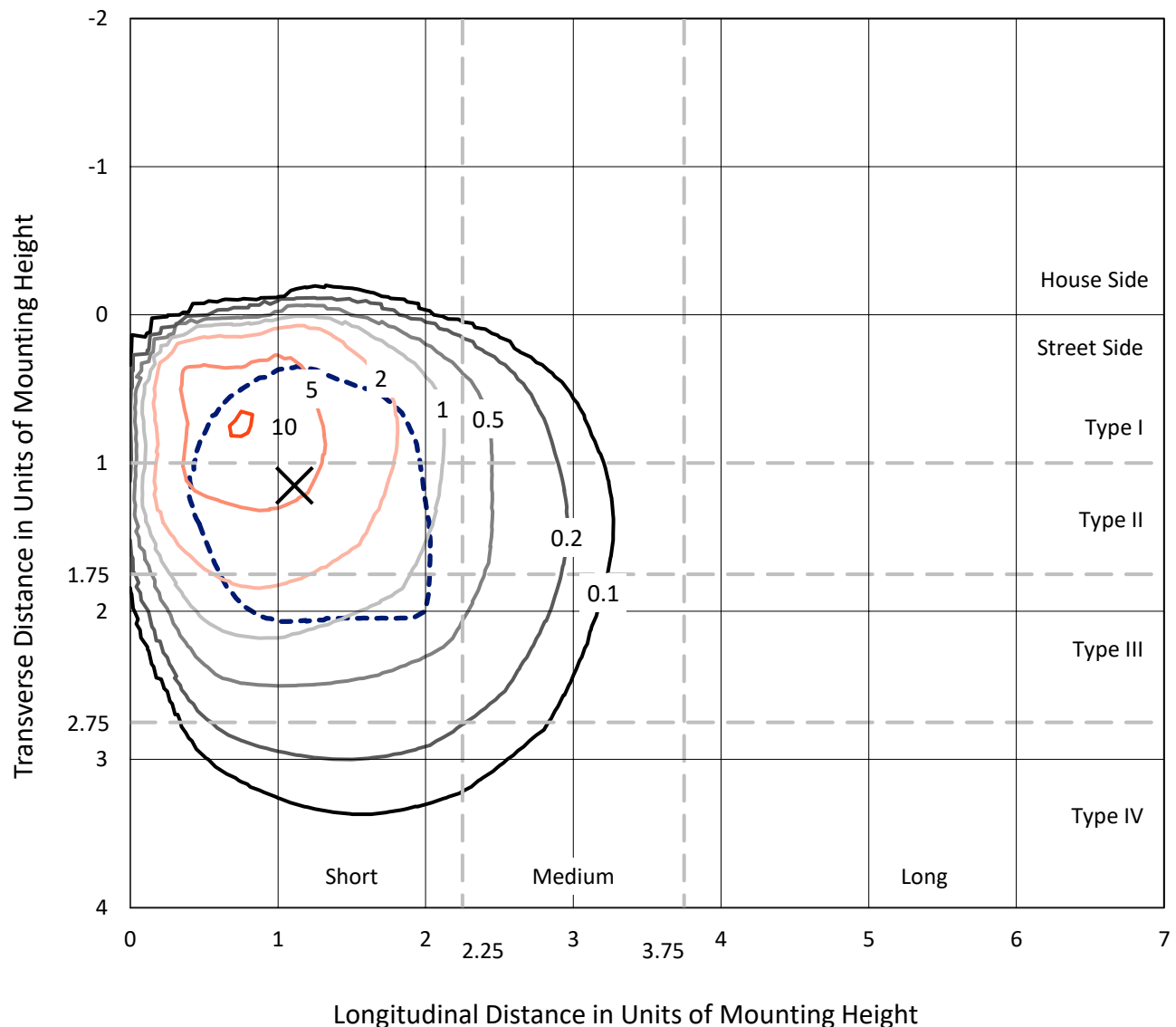
Input Watts (W): 55.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.97  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

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## Iso-Footcandle Lines of Horizontal Illumination

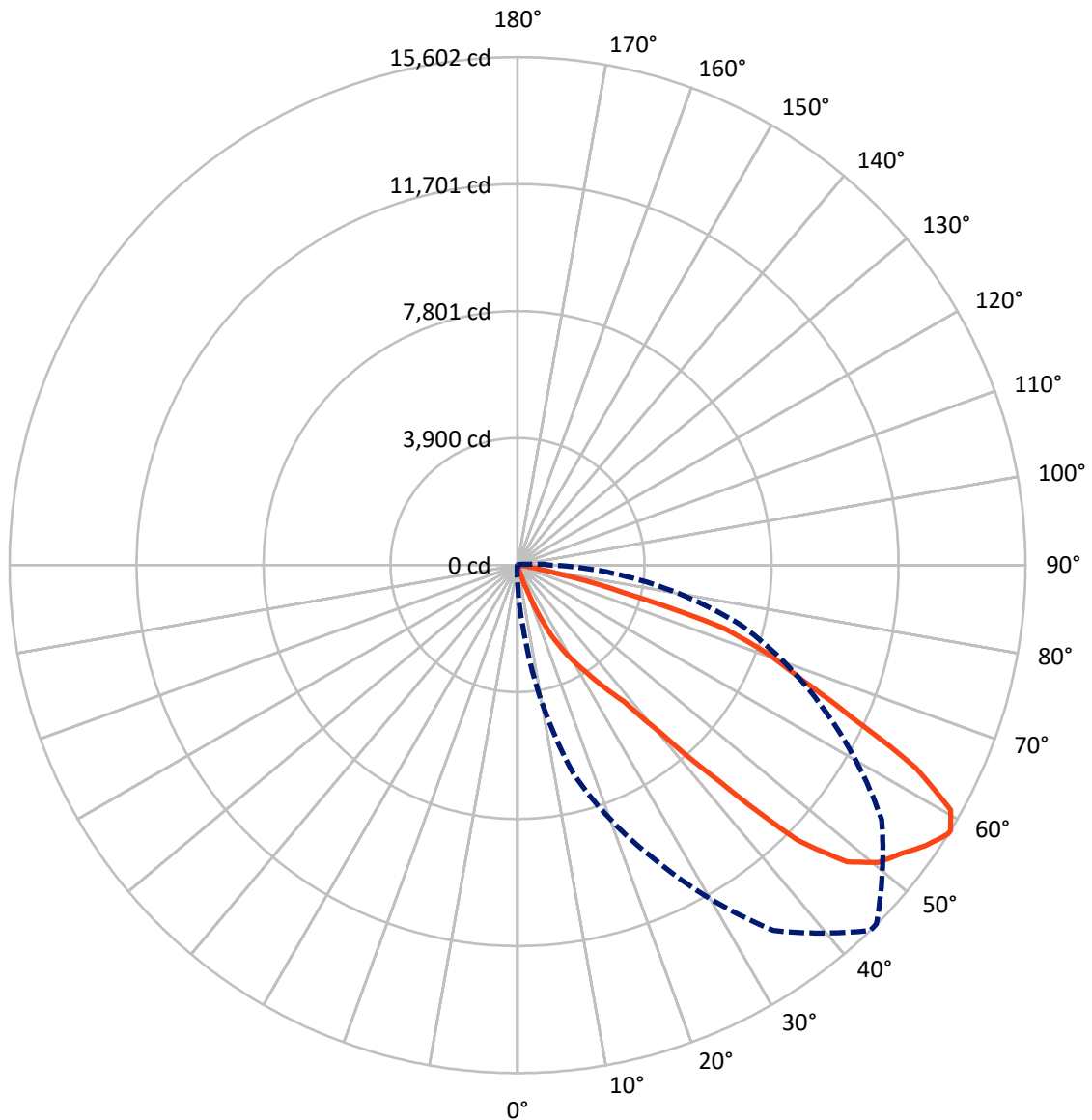
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.6 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral      - - - Horizontal Cone Through 58-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 41.5     | 0.0    | 41.5   |
|                    | % Fixture | 0.7      | 0.0    | 0.7    |
| <b>Street Side</b> | Lumens    | 6040.0   | 0.0    | 6040.0 |
|                    | % Fixture | 99.3     | 0.0    | 99.3   |
| <b>Total</b>       | Lumens    | 6081.6   | 0.0    | 6081.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.4    | 0.0       |
| 10°-20°   | 13.3   | 0.2       |
| 20°-30°   | 144.1  | 2.4       |
| 30°-40°   | 426.1  | 7.0       |
| 40°-50°   | 1269.9 | 20.9      |
| 50°-60°   | 2015.1 | 33.1      |
| 60°-70°   | 1680.8 | 27.6      |
| 70°-80°   | 518.4  | 8.5       |
| 80°-90°   | 11.5   | 0.2       |
| 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°    | 6081.6 | 100.0     |
| 0°-180°   | 6081.6 | 100.0     |

**Coefficient of Utilization**



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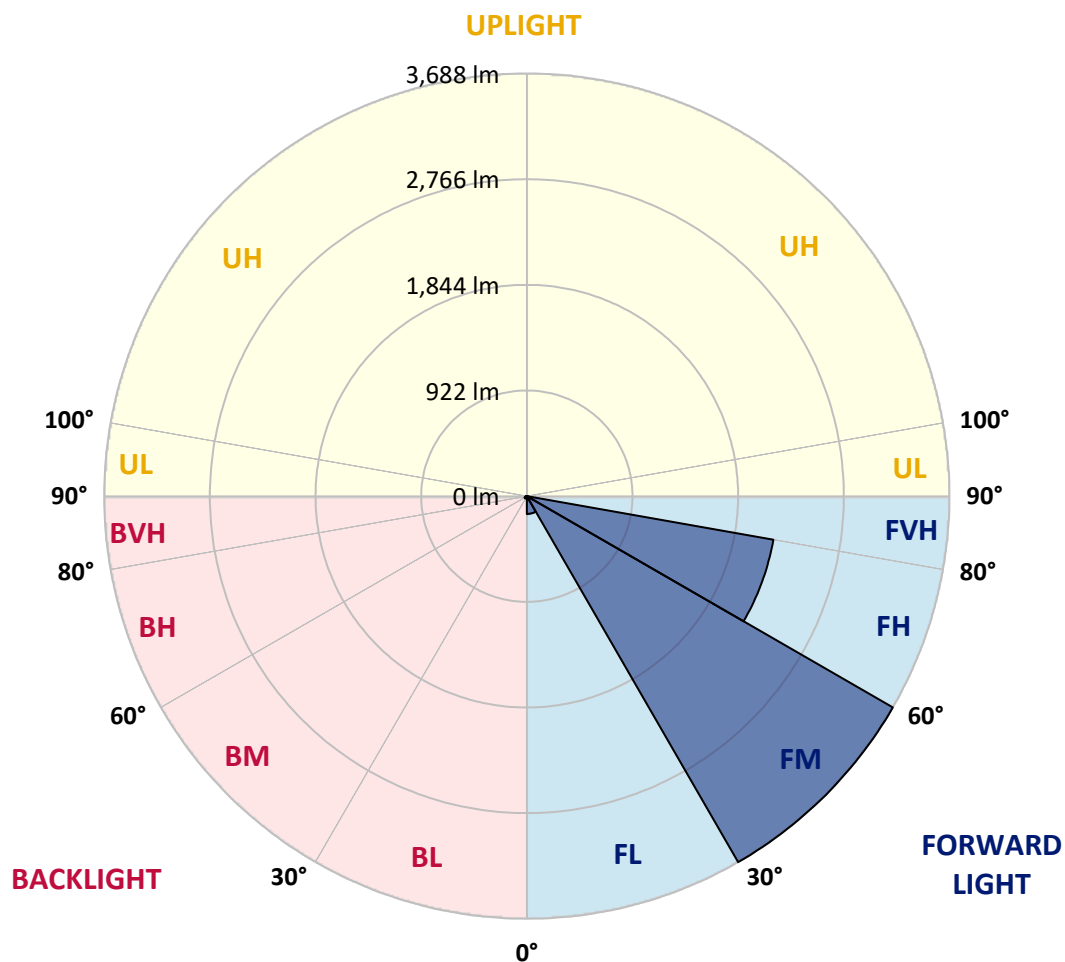
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 155.7  | 2.6       |                         |      |         |
| FM   | (30°-60°)   | 3688.3 | 60.6      |                         |      |         |
| FH   | (60°-80°)   | 2185.0 | 35.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 11.0   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 4.1    | 0.1       | B0/110                  |      |         |
| BM   | (30°-60°)   | 22.7   | 0.4       | B0/220                  |      |         |
| BH   | (60°-80°)   | 14.2   | 0.2       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.6    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G2**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°     | 15°    | 25°     | 35°     | 44°     | 45°     | 55°     | 65°     | 75°    |
|-------|-------|--------|--------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 26.6  | 26.6   | 26.6   | 26.6    | 26.6    | 26.6    | 26.6    | 26.6    | 26.6    | 26.6   |
| 2.5°  | 34.5  | 34.5   | 33.1   | 31.2    | 29.4    | 27.6    | 27.1    | 26.2    | 25.7    | 25.3   |
| 5°    | 35.8  | 35.8   | 35.4   | 34.0    | 32.2    | 30.8    | 30.8    | 29.4    | 28.5    | 27.6   |
| 7.5°  | 36.8  | 37.2   | 38.1   | 37.7    | 36.8    | 35.4    | 35.4    | 34.5    | 33.1    | 30.8   |
| 10°   | 38.1  | 39.5   | 41.3   | 42.3    | 42.7    | 42.7    | 42.3    | 41.8    | 39.5    | 36.3   |
| 12.5° | 39.5  | 42.3   | 46.9   | 51.5    | 54.2    | 57.9    | 57.4    | 56.5    | 50.5    | 43.6   |
| 15°   | 42.3  | 46.4   | 56.0   | 69.4    | 90.0    | 102.9   | 108.0   | 103.4   | 83.6    | 58.8   |
| 17.5° | 45.5  | 52.4   | 81.3   | 145.2   | 238.0   | 282.1   | 308.7   | 287.1   | 190.2   | 111.6  |
| 20°   | 48.7  | 63.9   | 151.1  | 376.3   | 617.4   | 761.7   | 801.7   | 739.2   | 474.6   | 212.7  |
| 22.5° | 54.2  | 89.6   | 306.4  | 777.8   | 1330.5  | 1546.8  | 1587.7  | 1387.9  | 896.3   | 419.9  |
| 25°   | 65.7  | 130.0  | 528.3  | 1267.5  | 1985.6  | 2350.8  | 2333.8  | 2071.9  | 1454.0  | 670.7  |
| 27.5° | 82.2  | 189.3  | 798.9  | 1800.9  | 2613.1  | 2935.2  | 2973.8  | 2649.9  | 1938.3  | 986.4  |
| 30°   | 106.1 | 262.3  | 1089.3 | 2228.1  | 3116.2  | 3464.4  | 3470.8  | 3135.9  | 2371.5  | 1263.4 |
| 32.5° | 129.1 | 331.2  | 1343.3 | 2641.2  | 3611.9  | 3993.7  | 4022.1  | 3610.1  | 2694.9  | 1551.9 |
| 35°   | 146.6 | 376.3  | 1600.6 | 3004.1  | 4111.7  | 4637.8  | 4635.9  | 4146.6  | 3078.1  | 1809.6 |
| 37.5° | 147.9 | 421.3  | 1833.5 | 3375.3  | 4744.8  | 5333.8  | 5392.1  | 4852.8  | 3541.1  | 2128.5 |
| 40°   | 144.7 | 471.8  | 2128.5 | 3954.1  | 5885.5  | 6789.2  | 6840.6  | 6160.7  | 4470.1  | 2674.2 |
| 42.5° | 148.4 | 559.6  | 2607.2 | 5023.2  | 7779.7  | 9077.5  | 9176.7  | 8461.9  | 6177.7  | 3787.8 |
| 45°   | 167.7 | 724.5  | 3610.1 | 6811.7  | 10479.6 | 12061.8 | 12028.8 | 10999.2 | 8164.6  | 5483.1 |
| 47.5° | 231.5 | 1128.3 | 5096.7 | 8552.4  | 12205.2 | 13614.2 | 13642.7 | 12384.3 | 9324.2  | 6786.4 |
| 50°   | 356.0 | 1726.5 | 6345.8 | 9472.6  | 12947.1 | 14360.7 | 14334.1 | 12880.0 | 9764.8  | 7428.2 |
| 52.5° | 463.1 | 2159.2 | 6972.5 | 9795.6  | 13042.2 | 14729.6 | 14727.8 | 13010.5 | 9833.2  | 7483.3 |
| 55°   | 489.7 | 2191.8 | 6977.5 | 9813.0  | 13255.4 | 15212.5 | 15273.1 | 13331.6 | 9921.9  | 7242.6 |
| 57.5° | 479.2 | 1940.6 | 6686.3 | 9914.1  | 13634.9 | 15586.0 | 15589.2 | 13642.7 | 10147.0 | 7095.1 |
| 58°   | 470.0 | 1901.0 | 6627.5 | 9971.5  | 13700.1 | 15601.6 | 15593.8 | 13656.9 | 10330.3 | 7089.6 |
| 60°   | 418.5 | 1650.7 | 6398.2 | 10118.1 | 13603.2 | 15280.9 | 15207.9 | 13345.9 | 10303.2 | 7033.1 |
| 62.5° | 328.9 | 1287.7 | 6172.6 | 9948.5  | 12564.0 | 13728.6 | 13758.9 | 11815.6 | 9392.7  | 6703.7 |
| 65°   | 261.9 | 959.7  | 5702.2 | 8726.5  | 10345.9 | 11273.9 | 11387.0 | 9608.1  | 7839.8  | 5676.5 |
| 67.5° | 208.6 | 693.7  | 4783.4 | 6947.7  | 8186.7  | 9409.2  | 9491.4  | 8066.8  | 6073.9  | 4349.2 |
| 70°   | 169.5 | 469.1  | 3301.8 | 5081.1  | 6752.4  | 8127.0  | 8132.0  | 6701.4  | 4533.5  | 2849.7 |
| 72.5° | 150.2 | 324.8  | 1916.7 | 3705.6  | 5475.3  | 6622.4  | 6488.7  | 5438.0  | 3484.2  | 1687.9 |
| 75°   | 130.0 | 215.5  | 940.0  | 2265.4  | 3319.7  | 3342.2  | 3393.2  | 2522.6  | 1741.6  | 802.6  |
| 77.5° | 107.0 | 153.0  | 370.3  | 618.8   | 995.5   | 1274.4  | 1321.7  | 1001.5  | 579.3   | 197.5  |
| 80°   | 73.5  | 72.6   | 99.7   | 189.7   | 284.8   | 357.0   | 333.1   | 257.7   | 151.6   | 75.8   |
| 82.5° | 31.7  | 34.5   | 45.0   | 54.2    | 44.1    | 42.7    | 40.9    | 26.2    | 20.2    | 15.6   |
| 85°   | 10.1  | 9.2    | 9.6    | 9.6     | 7.8     | 6.0     | 6.0     | 2.8     | 0.0     | 0.0    |
| 87.5° | 5.1   | 4.1    | 4.1    | 3.7     | 2.3     | 0.9     | 0.5     | 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    |



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**CANDELA DISTRIBUTION (continued):**

| 85°    |       | 90°    | 95°   | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|-------|------|------|------|------|------|------|------|------|
| 26.6   | 0°    | 26.6   | 26.6  | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 |
| 24.8   | 2.5°  | 24.3   | 24.3  | 23.4 | 22.5 | 22.1 | 21.1 | 20.7 | 20.2 | 19.8 | 19.3 |
| 26.6   | 5°    | 25.7   | 25.3  | 23.9 | 22.5 | 21.1 | 19.8 | 18.8 | 17.9 | 17.0 | 16.5 |
| 29.4   | 7.5°  | 28.0   | 27.1  | 24.3 | 22.1 | 20.2 | 18.4 | 17.5 | 16.1 | 15.2 | 13.8 |
| 32.6   | 10°   | 30.8   | 28.9  | 25.3 | 22.5 | 19.8 | 17.5 | 16.1 | 14.7 | 13.3 | 11.5 |
| 37.2   | 12.5° | 34.5   | 31.2  | 26.6 | 22.1 | 18.8 | 16.1 | 14.7 | 12.9 | 11.5 | 10.1 |
| 43.2   | 15°   | 37.7   | 33.5  | 27.1 | 22.1 | 17.9 | 14.7 | 12.9 | 11.0 | 9.6  | 7.8  |
| 54.2   | 17.5° | 42.3   | 35.4  | 26.6 | 20.7 | 16.5 | 12.9 | 11.0 | 9.6  | 7.4  | 4.6  |
| 80.4   | 20°   | 50.1   | 36.8  | 25.7 | 19.3 | 14.2 | 10.6 | 8.3  | 6.4  | 3.2  | 0.9  |
| 120.8  | 22.5° | 62.5   | 40.4  | 24.8 | 17.5 | 12.4 | 8.3  | 5.5  | 2.3  | 0.0  | 0.0  |
| 183.8  | 25°   | 86.4   | 46.9  | 24.8 | 16.5 | 11.0 | 6.0  | 1.8  | 0.0  | 0.0  | 0.0  |
| 260.9  | 27.5° | 114.9  | 55.6  | 24.8 | 14.2 | 8.7  | 3.2  | 0.0  | 0.0  | 0.0  | 0.0  |
| 355.6  | 30°   | 143.8  | 65.2  | 24.8 | 12.4 | 6.9  | 0.5  | 0.0  | 0.0  | 0.0  | 0.0  |
| 437.8  | 32.5° | 171.4  | 73.5  | 25.3 | 10.6 | 4.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 551.8  | 35°   | 199.4  | 74.9  | 24.8 | 9.2  | 2.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 691.4  | 37.5° | 235.2  | 72.1  | 23.4 | 8.3  | 1.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 909.6  | 40°   | 289.4  | 73.5  | 22.1 | 7.8  | 0.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1298.8 | 42.5° | 389.6  | 79.5  | 20.2 | 7.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2068.7 | 45°   | 673.5  | 106.6 | 18.4 | 8.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 3105.6 | 47.5° | 1114.1 | 191.6 | 17.9 | 8.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 3741.0 | 50°   | 1421.9 | 241.2 | 18.8 | 8.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 3820.5 | 52.5° | 1419.6 | 268.8 | 19.8 | 9.2  | 1.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 3521.4 | 55°   | 1262.0 | 273.8 | 21.1 | 10.1 | 6.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 3026.1 | 57.5° | 1054.8 | 249.9 | 24.3 | 12.4 | 11.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2948.5 | 58°   | 1018.1 | 238.9 | 25.3 | 12.9 | 11.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2557.5 | 60°   | 834.3  | 194.8 | 32.2 | 16.1 | 16.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2096.8 | 62.5° | 576.1  | 170.0 | 36.8 | 20.7 | 16.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1545.9 | 65°   | 407.5  | 153.4 | 40.0 | 22.1 | 13.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1098.5 | 67.5° | 304.6  | 141.5 | 44.1 | 22.5 | 6.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 689.1  | 70°   | 233.4  | 132.8 | 54.2 | 23.9 | 1.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 410.7  | 72.5° | 190.2  | 122.7 | 65.7 | 24.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 246.2  | 75°   | 157.6  | 110.7 | 63.4 | 27.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 131.4  | 77.5° | 104.7  | 85.9  | 57.9 | 27.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 46.9   | 80°   | 36.8   | 34.0  | 45.0 | 23.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 9.6    | 82.5° | 5.5    | 4.6   | 6.4  | 8.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0    | 85°   | 0.0    | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0    | 87.5° | 0.0    | 0.0   | 0.0  | 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  |



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**CANDELA DISTRIBUTION (continued):**

| 180° |       | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° |
|------|-------|------|------|------|------|------|------|------|------|------|------|
| 26.6 | 0°    | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 |
| 18.8 | 2.5°  | 18.8 | 18.8 | 18.4 | 18.8 | 18.8 | 19.8 | 22.1 | 25.3 | 28.9 | 30.3 |
| 16.1 | 5°    | 15.6 | 15.2 | 14.7 | 14.7 | 14.7 | 16.1 | 17.9 | 21.6 | 25.7 | 27.6 |
| 13.3 | 7.5°  | 12.9 | 12.4 | 11.9 | 11.5 | 11.5 | 12.4 | 14.7 | 18.8 | 23.0 | 24.8 |
| 11.0 | 10°   | 10.6 | 9.6  | 9.2  | 8.7  | 8.7  | 9.6  | 11.9 | 16.1 | 20.7 | 22.5 |
| 9.2  | 12.5° | 8.7  | 7.4  | 6.4  | 6.0  | 5.5  | 6.9  | 9.2  | 12.9 | 17.9 | 20.2 |
| 6.9  | 15°   | 6.0  | 4.6  | 3.2  | 2.8  | 2.3  | 3.7  | 6.0  | 10.1 | 15.2 | 17.9 |
| 3.7  | 17.5° | 3.2  | 1.4  | 0.5  | 0.0  | 0.0  | 0.9  | 2.8  | 7.4  | 12.4 | 14.7 |
| 0.0  | 20°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.7  | 9.2  | 11.5 |
| 0.0  | 22.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.5  | 5.5  | 7.8  |
| 0.0  | 25°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.3  | 4.1  |
| 0.0  | 27.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.9  |
| 0.0  | 30°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 32.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 35°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 37.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 40°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 42.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 45°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 47.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 50°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 52.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 55°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 57.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 58°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 60°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 62.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 65°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 67.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 70°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 72.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 75°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 77.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 80°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 82.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 85°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.4  |
| 0.0  | 87.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.8  | 3.7  |
| 0.0  | 90°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

REPORT NUMBER: P1049825

CATALOG NUMBER: GALN-SA2A-840-U-LBC

**CANDELA DISTRIBUTION (continued):**

| 275° |       | 285° | 295° | 305° | 315° | 316° | 325° | 335° | 345° | 355°  | 360°  |
|------|-------|------|------|------|------|------|------|------|------|-------|-------|
| 26.6 | 0°    | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 | 26.6  | 26.6  |
| 31.7 | 2.5°  | 32.6 | 32.2 | 31.2 | 30.3 | 30.3 | 30.3 | 31.7 | 33.1 | 34.5  | 34.5  |
| 28.5 | 5°    | 30.3 | 30.3 | 29.9 | 28.9 | 28.9 | 29.4 | 31.2 | 33.5 | 35.4  | 35.8  |
| 26.2 | 7.5°  | 28.0 | 28.9 | 28.0 | 27.6 | 28.0 | 28.5 | 30.3 | 33.1 | 35.8  | 36.8  |
| 24.3 | 10°   | 26.6 | 27.1 | 27.1 | 26.6 | 26.6 | 27.6 | 29.4 | 33.1 | 36.8  | 38.1  |
| 22.1 | 12.5° | 24.8 | 25.7 | 25.3 | 25.3 | 25.3 | 26.2 | 28.5 | 32.6 | 37.7  | 39.5  |
| 19.8 | 15°   | 23.0 | 24.3 | 24.3 | 23.9 | 23.9 | 24.3 | 27.6 | 32.2 | 39.0  | 42.3  |
| 17.0 | 17.5° | 21.1 | 22.5 | 23.0 | 22.1 | 22.1 | 23.0 | 26.2 | 32.2 | 40.0  | 45.5  |
| 13.8 | 20°   | 17.5 | 19.8 | 21.1 | 19.8 | 19.8 | 20.7 | 23.9 | 30.3 | 40.4  | 48.7  |
| 10.1 | 22.5° | 13.8 | 16.1 | 17.9 | 17.5 | 17.5 | 17.9 | 22.1 | 28.9 | 40.9  | 54.2  |
| 6.0  | 25°   | 10.1 | 12.4 | 13.8 | 14.7 | 14.7 | 16.1 | 20.2 | 28.0 | 42.7  | 65.7  |
| 2.8  | 27.5° | 6.0  | 8.7  | 10.6 | 11.5 | 11.9 | 13.8 | 18.8 | 27.1 | 45.9  | 82.2  |
| 0.0  | 30°   | 2.8  | 5.1  | 7.4  | 9.2  | 9.2  | 12.4 | 17.5 | 26.2 | 50.1  | 106.1 |
| 0.0  | 32.5° | 0.0  | 2.3  | 3.7  | 6.4  | 6.9  | 10.1 | 16.1 | 25.3 | 56.0  | 129.1 |
| 0.0  | 35°   | 0.0  | 0.0  | 1.8  | 5.1  | 5.1  | 8.3  | 14.7 | 24.3 | 65.2  | 146.6 |
| 0.0  | 37.5° | 0.0  | 0.0  | 0.0  | 3.7  | 4.1  | 7.4  | 14.2 | 23.9 | 67.1  | 147.9 |
| 0.0  | 40°   | 0.0  | 0.0  | 0.0  | 2.8  | 3.2  | 6.9  | 14.2 | 24.3 | 60.6  | 144.7 |
| 0.0  | 42.5° | 0.0  | 0.0  | 0.0  | 1.8  | 2.3  | 6.9  | 14.2 | 25.3 | 54.7  | 148.4 |
| 0.0  | 45°   | 0.0  | 0.0  | 0.0  | 1.4  | 1.8  | 7.4  | 13.8 | 24.8 | 51.5  | 167.7 |
| 0.0  | 47.5° | 0.0  | 0.0  | 0.0  | 1.8  | 2.8  | 7.4  | 13.3 | 24.3 | 51.9  | 231.5 |
| 0.0  | 50°   | 0.0  | 0.0  | 0.0  | 2.3  | 3.2  | 7.4  | 13.8 | 23.4 | 57.0  | 356.0 |
| 0.0  | 52.5° | 0.0  | 0.0  | 0.0  | 1.8  | 2.8  | 8.3  | 15.2 | 23.0 | 62.0  | 463.1 |
| 0.0  | 55°   | 0.0  | 0.0  | 0.0  | 0.5  | 1.4  | 10.6 | 16.5 | 23.0 | 69.8  | 489.7 |
| 0.0  | 57.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 11.9 | 18.8 | 24.3 | 82.7  | 479.2 |
| 0.0  | 58°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 11.9 | 19.3 | 24.3 | 83.6  | 470.0 |
| 0.0  | 60°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 11.9 | 21.1 | 27.1 | 90.0  | 418.5 |
| 0.0  | 62.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 10.1 | 25.3 | 34.0 | 93.7  | 328.9 |
| 0.0  | 65°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.3  | 29.9 | 37.2 | 96.5  | 261.9 |
| 0.0  | 67.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.8  | 30.8 | 37.7 | 97.9  | 208.6 |
| 0.0  | 70°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.3  | 30.3 | 40.4 | 102.4 | 169.5 |
| 0.0  | 72.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.2  | 27.6 | 44.6 | 102.4 | 150.2 |
| 0.0  | 75°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.6  | 25.7 | 50.1 | 93.3  | 130.0 |
| 0.0  | 77.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.2  | 25.3 | 58.3 | 83.2  | 107.0 |
| 0.0  | 80°   | 0.9  | 1.4  | 1.4  | 0.9  | 0.9  | 7.8  | 24.8 | 59.3 | 70.7  | 73.5  |
| 0.5  | 82.5° | 2.8  | 3.7  | 3.2  | 2.3  | 2.3  | 6.9  | 22.1 | 49.6 | 36.8  | 31.7  |
| 2.8  | 85°   | 5.1  | 6.0  | 6.0  | 5.1  | 5.1  | 6.4  | 13.8 | 17.9 | 12.4  | 10.1  |
| 5.1  | 87.5° | 6.9  | 7.8  | 7.8  | 6.9  | 6.9  | 6.4  | 6.0  | 5.5  | 5.1   | 5.1   |
| 0.0  | 90°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   |

(END OF RI



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-11

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-840-U-5WQ

Data in this report applies to families of products including GSS-SB1A-840-U-5WQ

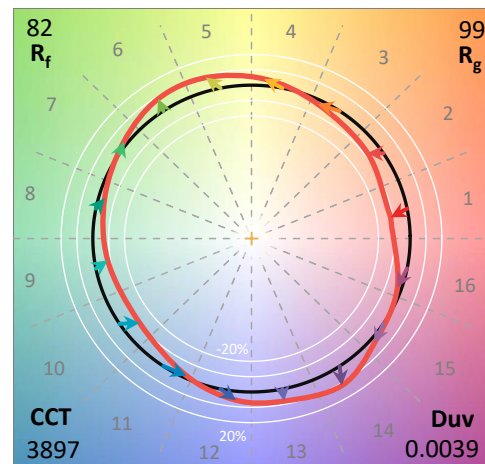
### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2407-184-11  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry:  $4\pi$   
 Issue Date: 10/15/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: McGraw-Edison  
 Catalog Number: **GSS-SB1A-840-U-5WQ**  
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI  
 4000K CCT 26 LEDS

### Spectral Parameters

CCT (K): 3897  
 CIE  $u'$ : 0.2249  
 CIE  $v'$ : 0.5084  
 Duv: 0.0039  
 CIE x: 0.3882  
 CIE y: 0.3900  
 CIE z: 0.2218  
 Peak Wavelength (nm): 445  
 Dominant Wavelength (nm): 577  
 Purity: 33.54925  
 R<sub>f</sub>: 81.8  
 R<sub>g</sub>: 98.6

CRI (Ra): 80.2  
 R1: 78.9  
 R2: 83.5  
 R3: 88.3  
 R4: 82.1  
 R5: 78.8  
 R6: 78.4  
 R7: 85.8  
 R8: 65.8  
 R9: 6.7  
 R10: 61.9  
 R11: 81.9  
 R12: 58.9  
 R13: 79.2  
 R14: 93.2  
 R15: 71.9



### Test Conditions

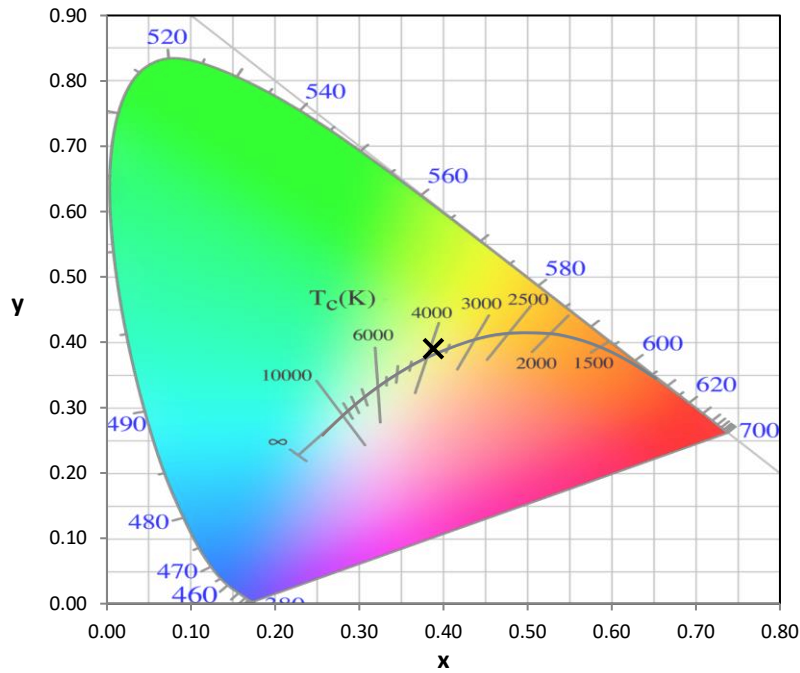
Stabilization Time: 24M  
 Operation Time: 1H 24M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-11

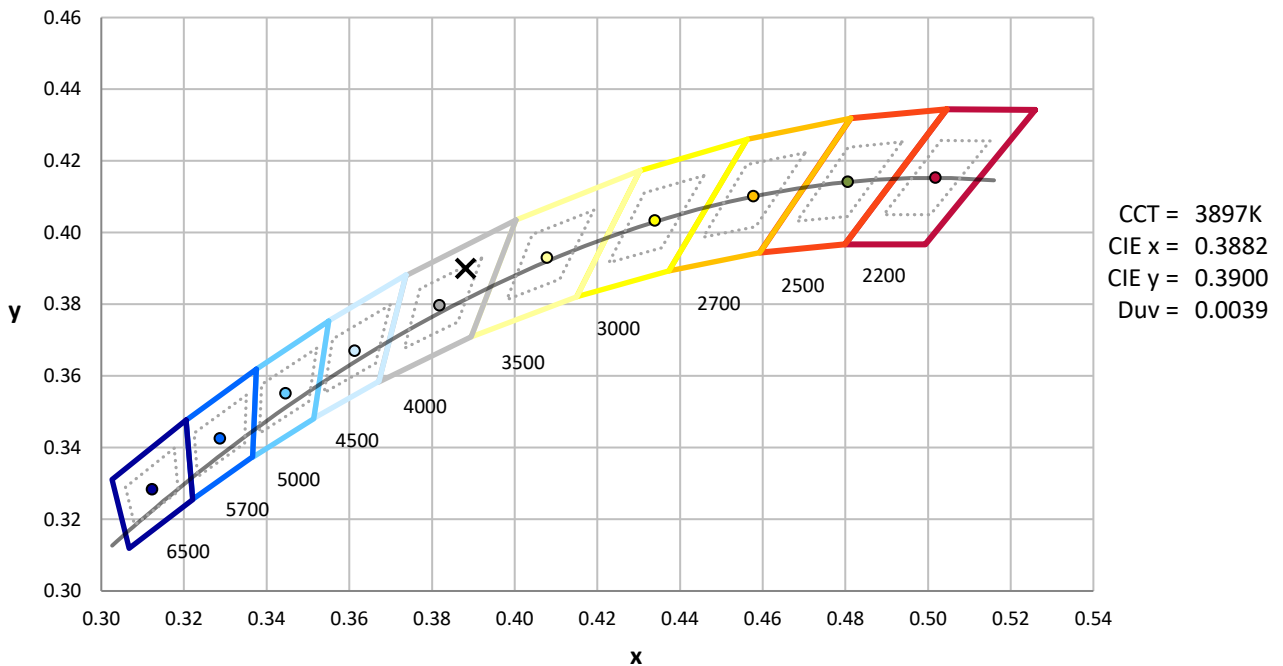
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| 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**



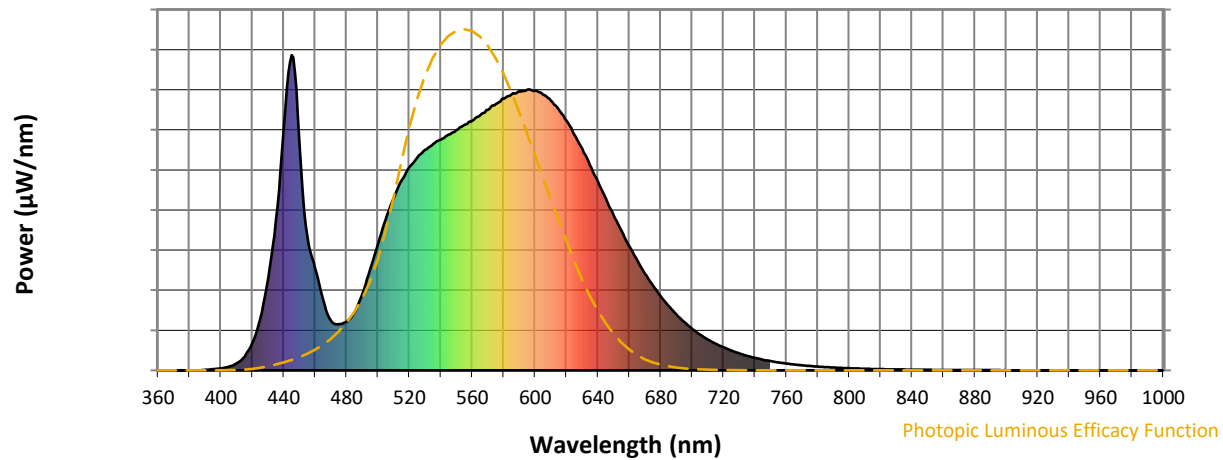
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-11

### Photopic Flux vs. Wavelength



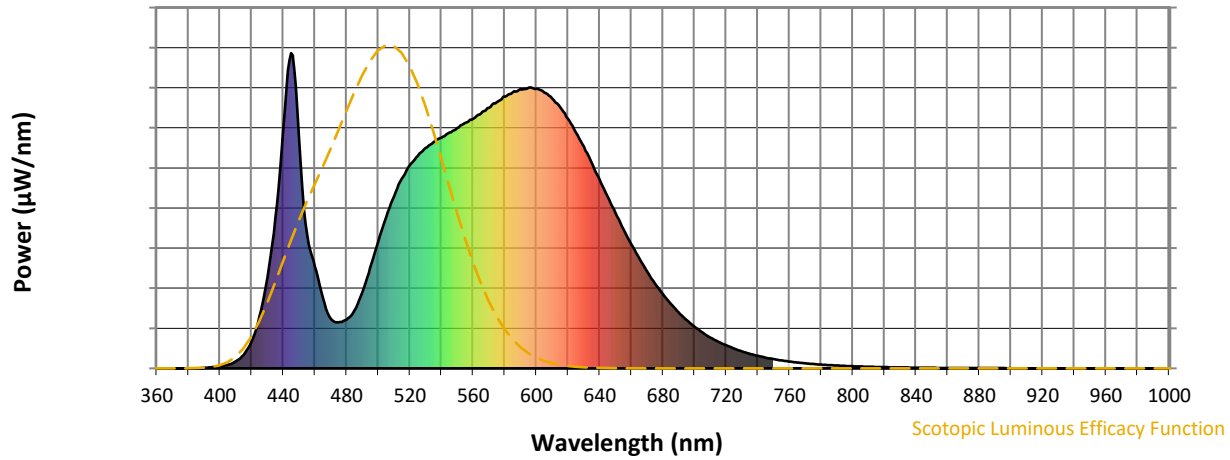
### Photopic Lumens: NR

| λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) |
|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|
| 360       | 0                           | NR               | 490       | 242                         | NR               | 620       | 792                         | NR               | 750       | 29                          | NR               | 880       | 1                           | NR               |
| 365       | 0                           | NR               | 495       | 320                         | NR               | 625       | 748                         | NR               | 755       | 25                          | NR               | 885       | 1                           | NR               |
| 370       | 0                           | NR               | 500       | 401                         | NR               | 630       | 703                         | NR               | 760       | 22                          | NR               | 890       | 1                           | NR               |
| 375       | 0                           | NR               | 505       | 479                         | NR               | 635       | 651                         | NR               | 765       | 19                          | NR               | 895       | 1                           | NR               |
| 380       | 0                           | NR               | 510       | 546                         | NR               | 640       | 599                         | NR               | 770       | 16                          | NR               | 900       | 1                           | NR               |
| 385       | 0                           | NR               | 515       | 602                         | NR               | 645       | 545                         | NR               | 775       | 14                          | NR               | 905       | 0                           | NR               |
| 390       | 2                           | NR               | 520       | 645                         | NR               | 650       | 493                         | NR               | 780       | 12                          | NR               | 910       | 0                           | NR               |
| 395       | 4                           | NR               | 525       | 674                         | NR               | 655       | 443                         | NR               | 785       | 10                          | NR               | 915       | 0                           | NR               |
| 400       | 6                           | NR               | 530       | 699                         | NR               | 660       | 394                         | NR               | 790       | 9                           | NR               | 920       | 0                           | NR               |
| 405       | 11                          | NR               | 535       | 718                         | NR               | 665       | 349                         | NR               | 795       | 8                           | NR               | 925       | 0                           | NR               |
| 410       | 22                          | NR               | 540       | 732                         | NR               | 670       | 307                         | NR               | 800       | 7                           | NR               | 930       | 0                           | NR               |
| 415       | 43                          | NR               | 545       | 749                         | NR               | 675       | 269                         | NR               | 805       | 6                           | NR               | 935       | 0                           | NR               |
| 420       | 86                          | NR               | 550       | 762                         | NR               | 680       | 235                         | NR               | 810       | 5                           | NR               | 940       | 0                           | NR               |
| 425       | 164                         | NR               | 555       | 778                         | NR               | 685       | 204                         | NR               | 815       | 5                           | NR               | 945       | 0                           | NR               |
| 430       | 288                         | NR               | 560       | 792                         | NR               | 690       | 178                         | NR               | 820       | 4                           | NR               | 950       | 0                           | NR               |
| 435       | 478                         | NR               | 565       | 809                         | NR               | 695       | 153                         | NR               | 825       | 3                           | NR               | 955       | 0                           | NR               |
| 440       | 766                         | NR               | 570       | 827                         | NR               | 700       | 132                         | NR               | 830       | 3                           | NR               | 960       | 0                           | NR               |
| 445       | 1000                        | NR               | 575       | 845                         | NR               | 705       | 114                         | NR               | 835       | 3                           | NR               | 965       | 0                           | NR               |
| 450       | 726                         | NR               | 580       | 862                         | NR               | 710       | 98                          | NR               | 840       | 2                           | NR               | 970       | 0                           | NR               |
| 455       | 425                         | NR               | 585       | 875                         | NR               | 715       | 84                          | NR               | 845       | 2                           | NR               | 975       | 0                           | NR               |
| 460       | 324                         | NR               | 590       | 887                         | NR               | 720       | 73                          | NR               | 850       | 2                           | NR               | 980       | 0                           | NR               |
| 465       | 225                         | NR               | 595       | 890                         | NR               | 725       | 63                          | NR               | 855       | 1                           | NR               | 985       | 0                           | NR               |
| 470       | 157                         | NR               | 600       | 887                         | NR               | 730       | 54                          | NR               | 860       | 1                           | NR               | 990       | 0                           | NR               |
| 475       | 147                         | NR               | 605       | 875                         | NR               | 735       | 46                          | NR               | 865       | 1                           | NR               | 995       | 0                           | NR               |
| 480       | 154                         | NR               | 610       | 856                         | NR               | 740       | 40                          | NR               | 870       | 1                           | NR               | 1000      | 0                           | NR               |
| 485       | 184                         | NR               | 615       | 828                         | NR               | 745       | 34                          | NR               | 875       | 1                           | NR               |           |                             |                  |



REPORT NUMBER: SP1-2407-184-11

### Scotopic Flux vs. Wavelength



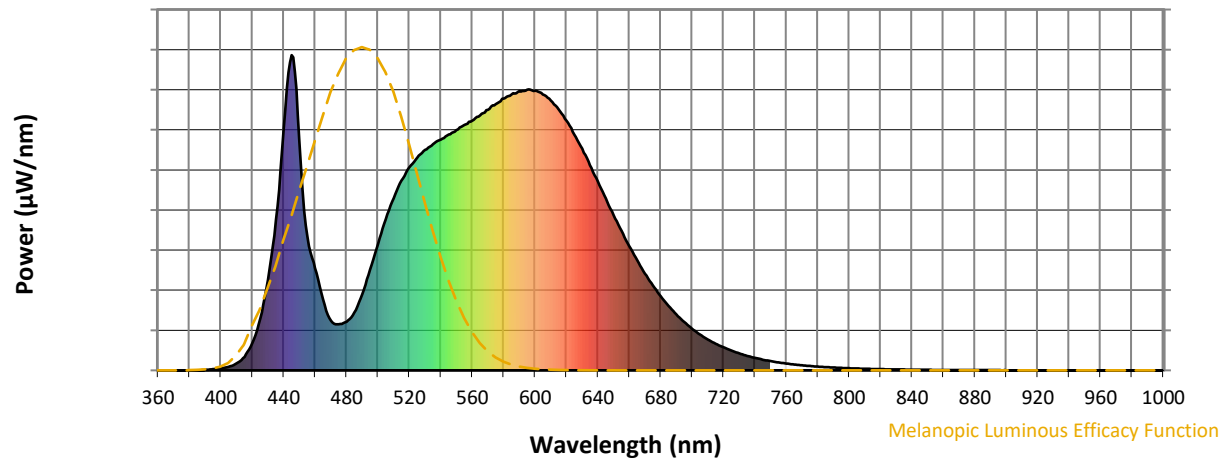
Scotopic Lumens: NR

S/P: 1.57

| λ (nm) | Power W <sup>^</sup> /nm | Lumens (Φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (Φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (Φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (Φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (Φ/nm) |
|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|
| 360    | 0                        | NR            | 490    | 242                      | NR            | 620    | 792                      | NR            | 750    | 29                       | NR            | 880    | 1                        | NR            |
| 365    | 0                        | NR            | 495    | 320                      | NR            | 625    | 748                      | NR            | 755    | 25                       | NR            | 885    | 1                        | NR            |
| 370    | 0                        | NR            | 500    | 401                      | NR            | 630    | 703                      | NR            | 760    | 22                       | NR            | 890    | 1                        | NR            |
| 375    | 0                        | NR            | 505    | 479                      | NR            | 635    | 651                      | NR            | 765    | 19                       | NR            | 895    | 1                        | NR            |
| 380    | 0                        | NR            | 510    | 546                      | NR            | 640    | 599                      | NR            | 770    | 16                       | NR            | 900    | 1                        | NR            |
| 385    | 0                        | NR            | 515    | 602                      | NR            | 645    | 545                      | NR            | 775    | 14                       | NR            | 905    | 0                        | NR            |
| 390    | 2                        | NR            | 520    | 645                      | NR            | 650    | 493                      | NR            | 780    | 12                       | NR            | 910    | 0                        | NR            |
| 395    | 4                        | NR            | 525    | 674                      | NR            | 655    | 443                      | NR            | 785    | 10                       | NR            | 915    | 0                        | NR            |
| 400    | 6                        | NR            | 530    | 699                      | NR            | 660    | 394                      | NR            | 790    | 9                        | NR            | 920    | 0                        | NR            |
| 405    | 11                       | NR            | 535    | 718                      | NR            | 665    | 349                      | NR            | 795    | 8                        | NR            | 925    | 0                        | NR            |
| 410    | 22                       | NR            | 540    | 732                      | NR            | 670    | 307                      | NR            | 800    | 7                        | NR            | 930    | 0                        | NR            |
| 415    | 43                       | NR            | 545    | 749                      | NR            | 675    | 269                      | NR            | 805    | 6                        | NR            | 935    | 0                        | NR            |
| 420    | 86                       | NR            | 550    | 762                      | NR            | 680    | 235                      | NR            | 810    | 5                        | NR            | 940    | 0                        | NR            |
| 425    | 164                      | NR            | 555    | 778                      | NR            | 685    | 204                      | NR            | 815    | 5                        | NR            | 945    | 0                        | NR            |
| 430    | 288                      | NR            | 560    | 792                      | NR            | 690    | 178                      | NR            | 820    | 4                        | NR            | 950    | 0                        | NR            |
| 435    | 478                      | NR            | 565    | 809                      | NR            | 695    | 153                      | NR            | 825    | 3                        | NR            | 955    | 0                        | NR            |
| 440    | 766                      | NR            | 570    | 827                      | NR            | 700    | 132                      | NR            | 830    | 3                        | NR            | 960    | 0                        | NR            |
| 445    | 1000                     | NR            | 575    | 845                      | NR            | 705    | 114                      | NR            | 835    | 3                        | NR            | 965    | 0                        | NR            |
| 450    | 726                      | NR            | 580    | 862                      | NR            | 710    | 98                       | NR            | 840    | 2                        | NR            | 970    | 0                        | NR            |
| 455    | 425                      | NR            | 585    | 875                      | NR            | 715    | 84                       | NR            | 845    | 2                        | NR            | 975    | 0                        | NR            |
| 460    | 324                      | NR            | 590    | 887                      | NR            | 720    | 73                       | NR            | 850    | 2                        | NR            | 980    | 0                        | NR            |
| 465    | 225                      | NR            | 595    | 890                      | NR            | 725    | 63                       | NR            | 855    | 1                        | NR            | 985    | 0                        | NR            |
| 470    | 157                      | NR            | 600    | 887                      | NR            | 730    | 54                       | NR            | 860    | 1                        | NR            | 990    | 0                        | NR            |
| 475    | 147                      | NR            | 605    | 875                      | NR            | 735    | 46                       | NR            | 865    | 1                        | NR            | 995    | 0                        | NR            |
| 480    | 154                      | NR            | 610    | 856                      | NR            | 740    | 40                       | NR            | 870    | 1                        | NR            | 1000   | 0                        | NR            |
| 485    | 184                      | NR            | 615    | 828                      | NR            | 745    | 34                       | NR            | 875    | 1                        | NR            |        |                          |               |

REPORT NUMBER: SP1-2407-184-11

### Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.06

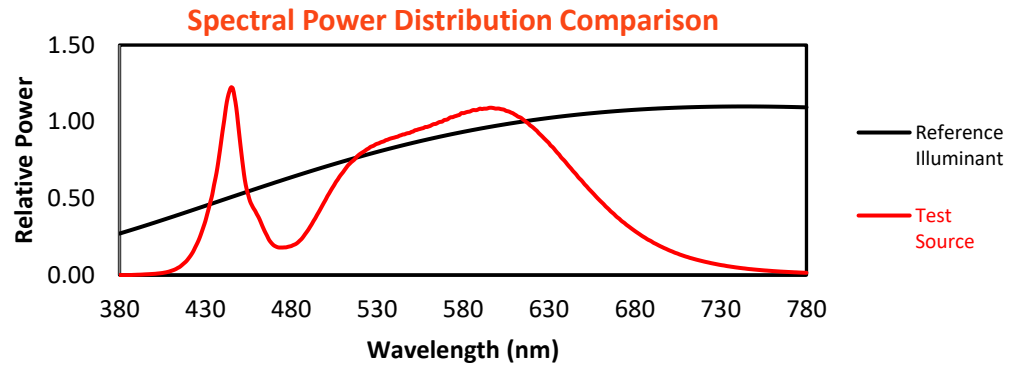
| λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) |
|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|
| 360       | 0                           | NR               | 490       | 242                         | NR               | 620       | 792                         | NR               | 750       | 29                          | NR               | 880       | 1                           | NR               |
| 365       | 0                           | NR               | 495       | 320                         | NR               | 625       | 748                         | NR               | 755       | 25                          | NR               | 885       | 1                           | NR               |
| 370       | 0                           | NR               | 500       | 401                         | NR               | 630       | 703                         | NR               | 760       | 22                          | NR               | 890       | 1                           | NR               |
| 375       | 0                           | NR               | 505       | 479                         | NR               | 635       | 651                         | NR               | 765       | 19                          | NR               | 895       | 1                           | NR               |
| 380       | 0                           | NR               | 510       | 546                         | NR               | 640       | 599                         | NR               | 770       | 16                          | NR               | 900       | 1                           | NR               |
| 385       | 0                           | NR               | 515       | 602                         | NR               | 645       | 545                         | NR               | 775       | 14                          | NR               | 905       | 0                           | NR               |
| 390       | 2                           | NR               | 520       | 645                         | NR               | 650       | 493                         | NR               | 780       | 12                          | NR               | 910       | 0                           | NR               |
| 395       | 4                           | NR               | 525       | 674                         | NR               | 655       | 443                         | NR               | 785       | 10                          | NR               | 915       | 0                           | NR               |
| 400       | 6                           | NR               | 530       | 699                         | NR               | 660       | 394                         | NR               | 790       | 9                           | NR               | 920       | 0                           | NR               |
| 405       | 11                          | NR               | 535       | 718                         | NR               | 665       | 349                         | NR               | 795       | 8                           | NR               | 925       | 0                           | NR               |
| 410       | 22                          | NR               | 540       | 732                         | NR               | 670       | 307                         | NR               | 800       | 7                           | NR               | 930       | 0                           | NR               |
| 415       | 43                          | NR               | 545       | 749                         | NR               | 675       | 269                         | NR               | 805       | 6                           | NR               | 935       | 0                           | NR               |
| 420       | 86                          | NR               | 550       | 762                         | NR               | 680       | 235                         | NR               | 810       | 5                           | NR               | 940       | 0                           | NR               |
| 425       | 164                         | NR               | 555       | 778                         | NR               | 685       | 204                         | NR               | 815       | 5                           | NR               | 945       | 0                           | NR               |
| 430       | 288                         | NR               | 560       | 792                         | NR               | 690       | 178                         | NR               | 820       | 4                           | NR               | 950       | 0                           | NR               |
| 435       | 478                         | NR               | 565       | 809                         | NR               | 695       | 153                         | NR               | 825       | 3                           | NR               | 955       | 0                           | NR               |
| 440       | 766                         | NR               | 570       | 827                         | NR               | 700       | 132                         | NR               | 830       | 3                           | NR               | 960       | 0                           | NR               |
| 445       | 1000                        | NR               | 575       | 845                         | NR               | 705       | 114                         | NR               | 835       | 3                           | NR               | 965       | 0                           | NR               |
| 450       | 726                         | NR               | 580       | 862                         | NR               | 710       | 98                          | NR               | 840       | 2                           | NR               | 970       | 0                           | NR               |
| 455       | 425                         | NR               | 585       | 875                         | NR               | 715       | 84                          | NR               | 845       | 2                           | NR               | 975       | 0                           | NR               |
| 460       | 324                         | NR               | 590       | 887                         | NR               | 720       | 73                          | NR               | 850       | 2                           | NR               | 980       | 0                           | NR               |
| 465       | 225                         | NR               | 595       | 890                         | NR               | 725       | 63                          | NR               | 855       | 1                           | NR               | 985       | 0                           | NR               |
| 470       | 157                         | NR               | 600       | 887                         | NR               | 730       | 54                          | NR               | 860       | 1                           | NR               | 990       | 0                           | NR               |
| 475       | 147                         | NR               | 605       | 875                         | NR               | 735       | 46                          | NR               | 865       | 1                           | NR               | 995       | 0                           | NR               |
| 480       | 154                         | NR               | 610       | 856                         | NR               | 740       | 40                          | NR               | 870       | 1                           | NR               | 1000      | 0                           | NR               |
| 485       | 184                         | NR               | 615       | 828                         | NR               | 745       | 34                          | NR               | 875       | 1                           | NR               |           |                             |                  |

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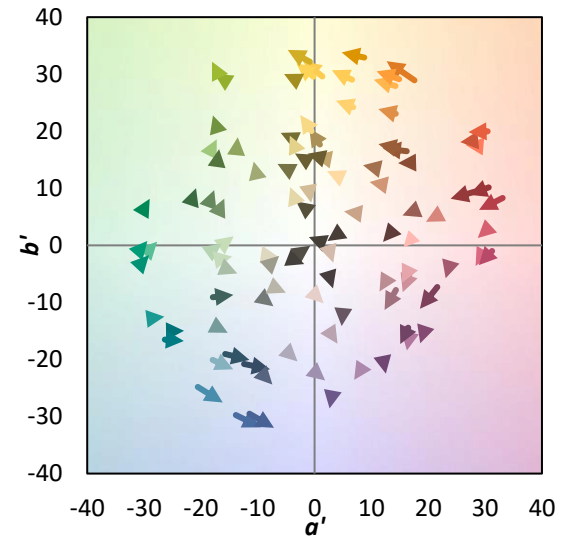
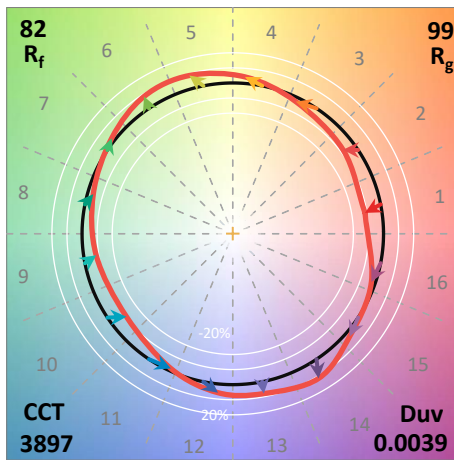
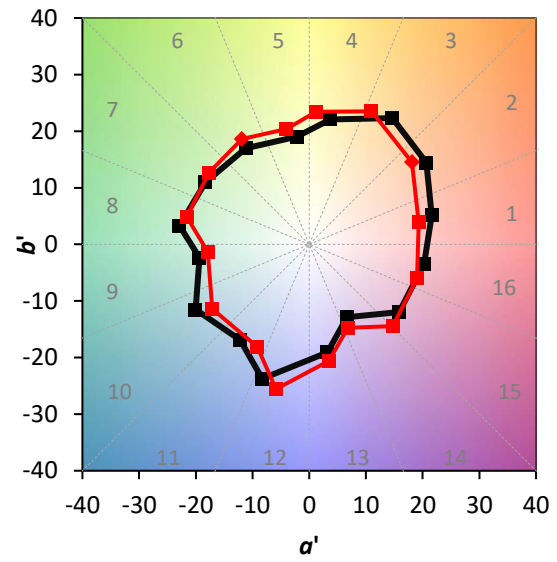
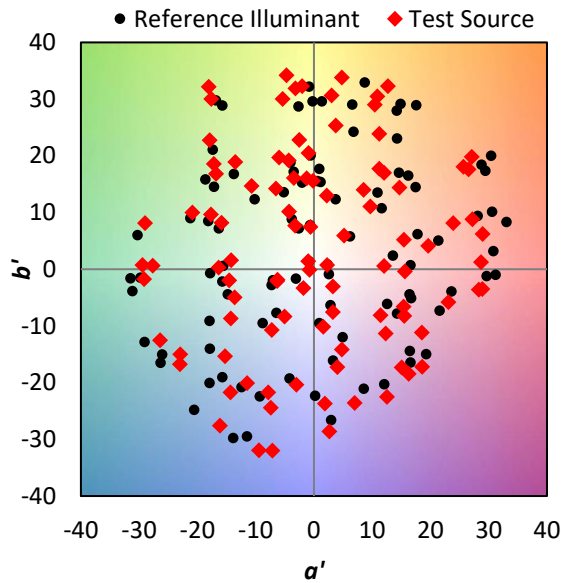
TM-30-18

### Summary

$R_f = 81.8$   
 $R_g = 98.6$   
 $CIE R_a = 80.2$   
 $R_9 = 6.7$

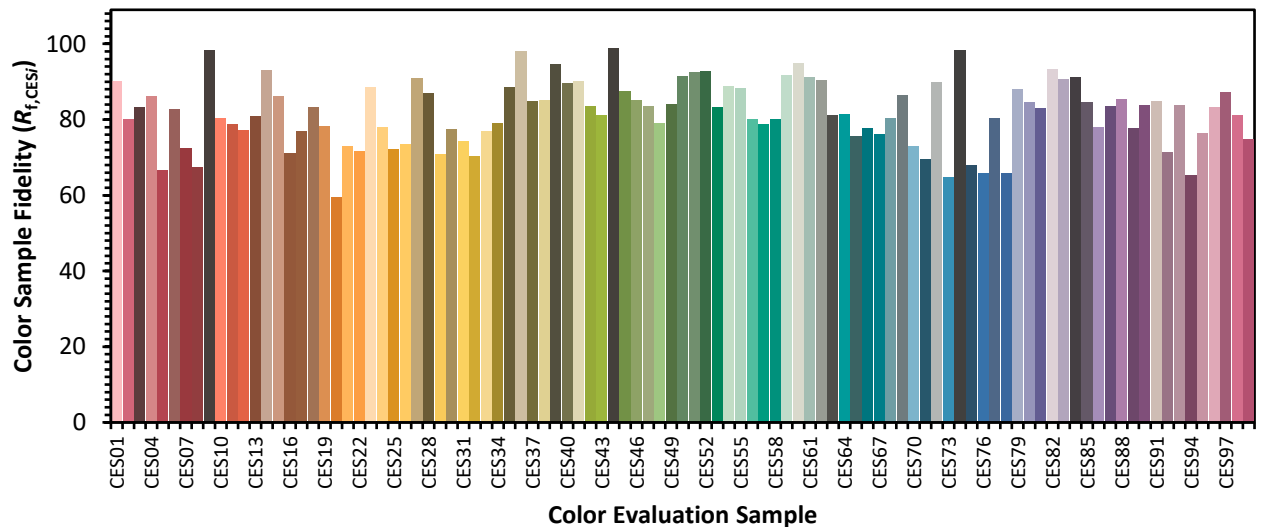


### Color Vector Graphics

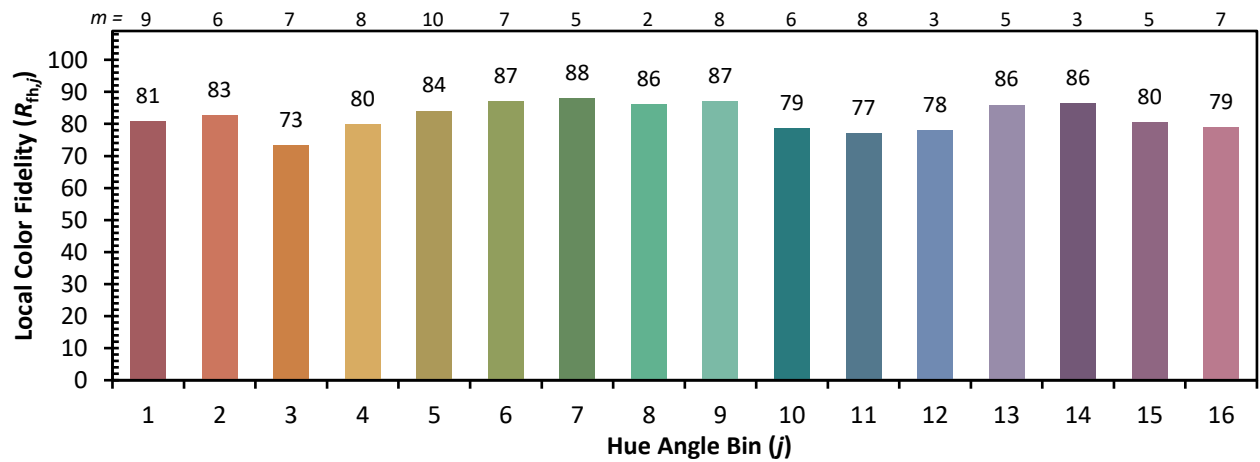
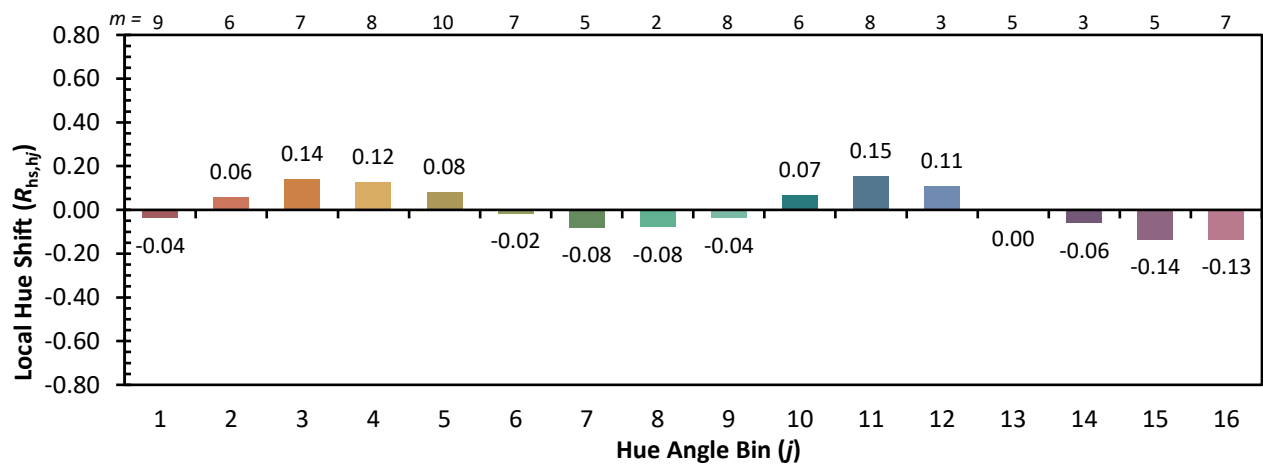
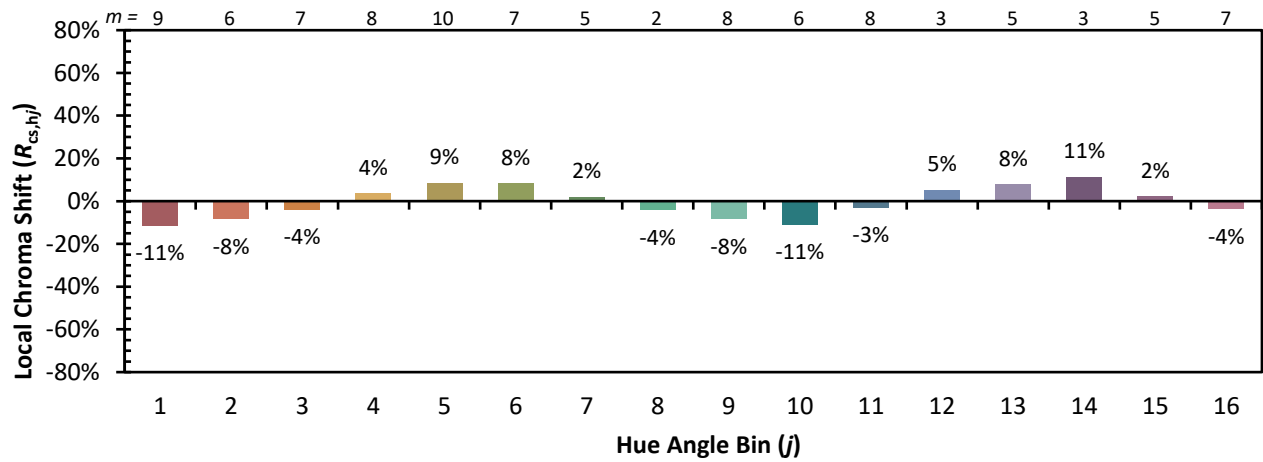


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

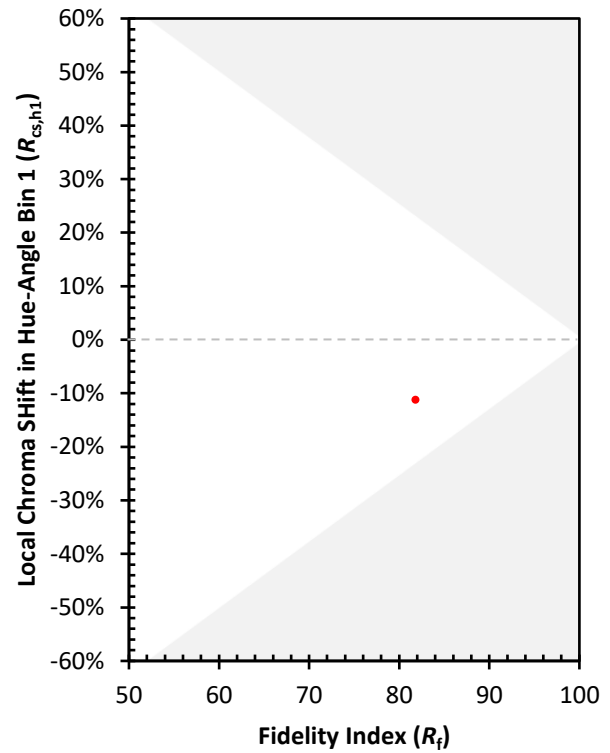
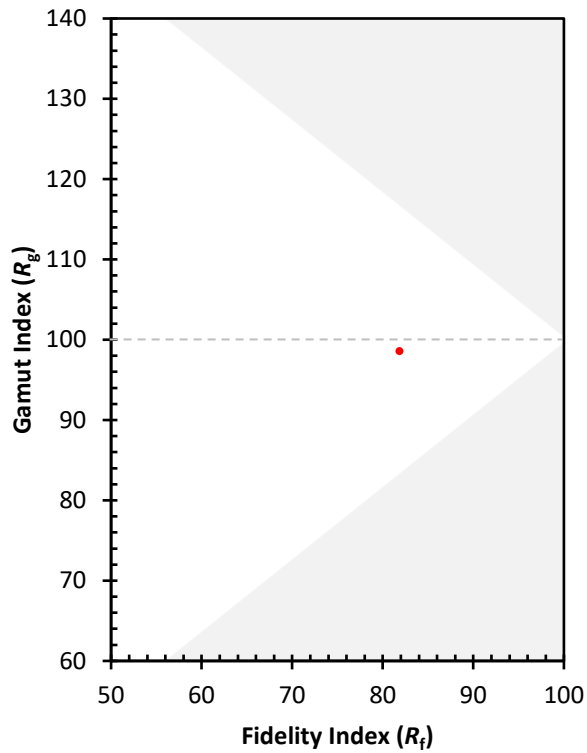
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 73 | CES51 = 93 | CES76 = 66 |
| CES02 = 61 | CES27 = 91 | CES52 = 93 | CES77 = 80 |
| CES03 = 31 | CES28 = 87 | CES53 = 83 | CES78 = 66 |
| CES04 = 69 | CES29 = 71 | CES54 = 89 | CES79 = 88 |
| CES05 = 48 | CES30 = 77 | CES55 = 88 | CES80 = 85 |
| CES06 = 50 | CES31 = 74 | CES56 = 80 | CES81 = 83 |
| CES07 = 41 | CES32 = 70 | CES57 = 79 | CES82 = 93 |
| CES08 = 40 | CES33 = 77 | CES58 = 80 | CES83 = 91 |
| CES09 = 29 | CES34 = 79 | CES59 = 92 | CES84 = 91 |
| CES10 = 74 | CES35 = 88 | CES60 = 95 | CES85 = 84 |
| CES11 = 57 | CES36 = 98 | CES61 = 91 | CES86 = 78 |
| CES12 = 63 | CES37 = 85 | CES62 = 90 | CES87 = 84 |
| CES13 = 42 | CES38 = 85 | CES63 = 81 | CES88 = 85 |
| CES14 = 74 | CES39 = 95 | CES64 = 81 | CES89 = 78 |
| CES15 = 71 | CES40 = 90 | CES65 = 76 | CES90 = 84 |
| CES16 = 47 | CES41 = 90 | CES66 = 78 | CES91 = 85 |
| CES17 = 49 | CES42 = 84 | CES67 = 76 | CES92 = 71 |
| CES18 = 56 | CES43 = 81 | CES68 = 80 | CES93 = 84 |
| CES19 = 71 | CES44 = 99 | CES69 = 86 | CES94 = 65 |
| CES20 = 65 | CES45 = 87 | CES70 = 73 | CES95 = 77 |
| CES21 = 86 | CES46 = 85 | CES71 = 70 | CES96 = 83 |
| CES22 = 78 | CES47 = 84 | CES72 = 90 | CES97 = 87 |
| CES23 = 91 | CES48 = 79 | CES73 = 65 | CES98 = 81 |
| CES24 = 90 | CES49 = 84 | CES74 = 98 | CES99 = 75 |
| CES25 = 71 | CES50 = 91 | CES75 = 68 |            |



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)