

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: P1049895

Luminaire Tested: **GALN-SA1C-927-U-LBC**

Issue Date: 07/10/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1049895  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/10/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1C-927-U-LBC  
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 1xLight Square PACKAGE  
90CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (14) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3243.9 lumens  
Efficiency: N/A  
Efficacy: 64.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G1

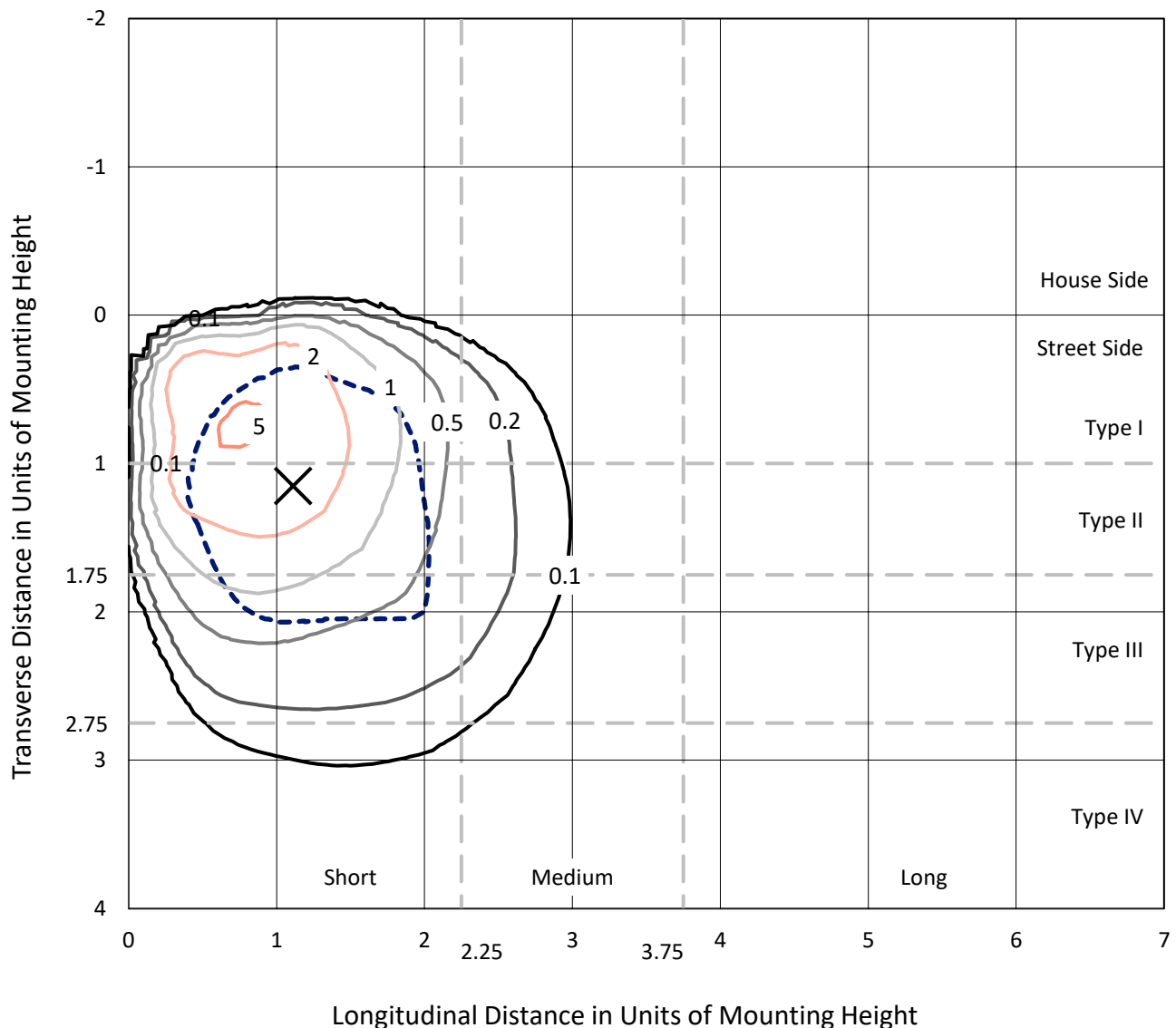
Input Watts (W): 50.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.97  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

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## Iso-Footcandle Lines of Horizontal Illumination

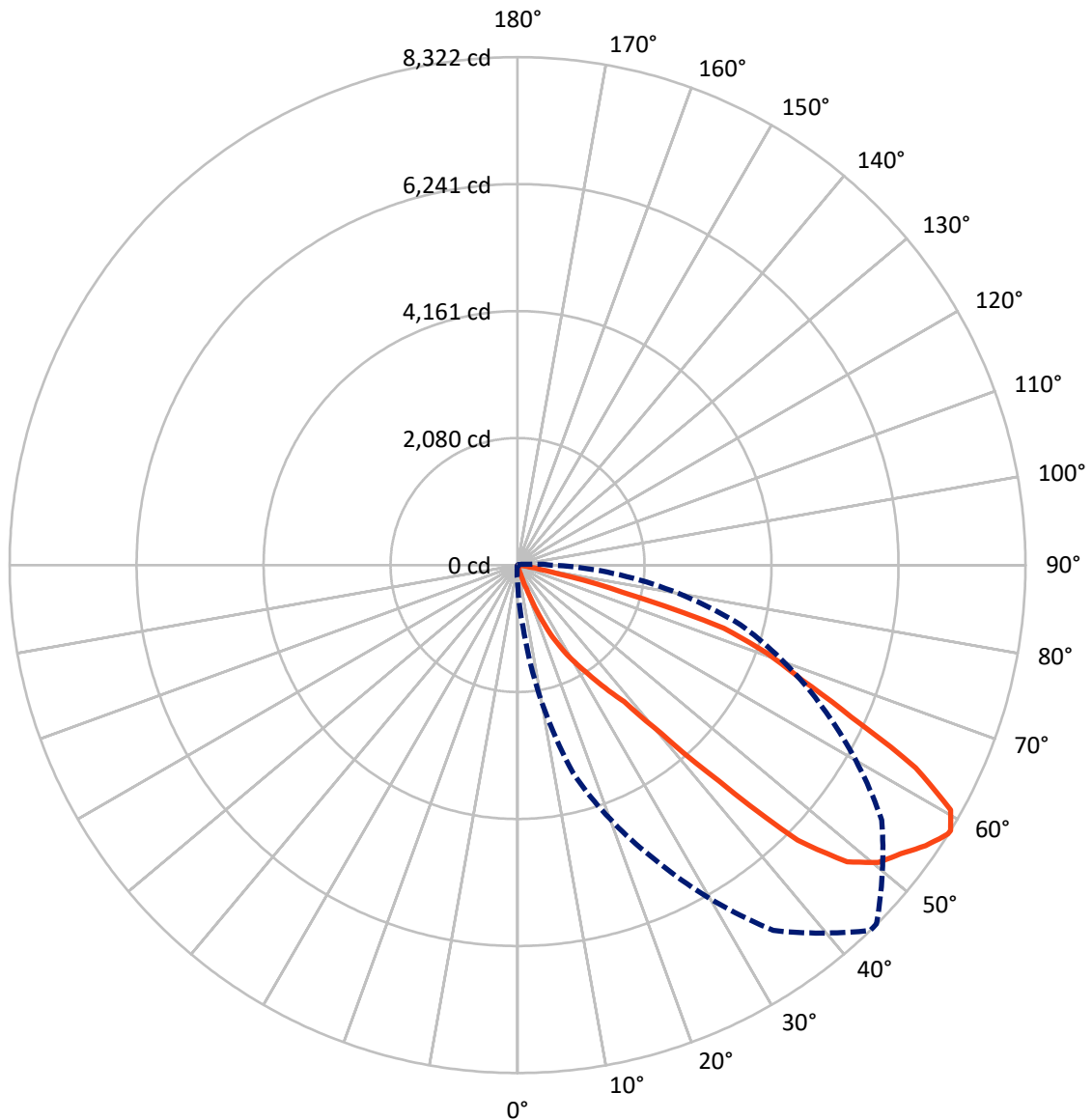
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 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    | 22.2     | 0.0    | 22.2   |
|                    | % Fixture | 0.7      | 0.0    | 0.7    |
| <b>Street Side</b> | Lumens    | 3221.8   | 0.0    | 3221.8 |
|                    | % Fixture | 99.3     | 0.0    | 99.3   |
| <b>Total</b>       | Lumens    | 3243.9   | 0.0    | 3243.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.3    | 0.0       |
| 10°-20°   | 7.1    | 0.2       |
| 20°-30°   | 76.8   | 2.4       |
| 30°-40°   | 227.3  | 7.0       |
| 40°-50°   | 677.4  | 20.9      |
| 50°-60°   | 1074.8 | 33.1      |
| 60°-70°   | 896.6  | 27.6      |
| 70°-80°   | 276.5  | 8.5       |
| 80°-90°   | 6.1    | 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°    | 3243.9 | 100.0     |
| 0°-180°   | 3243.9 | 100.0     |



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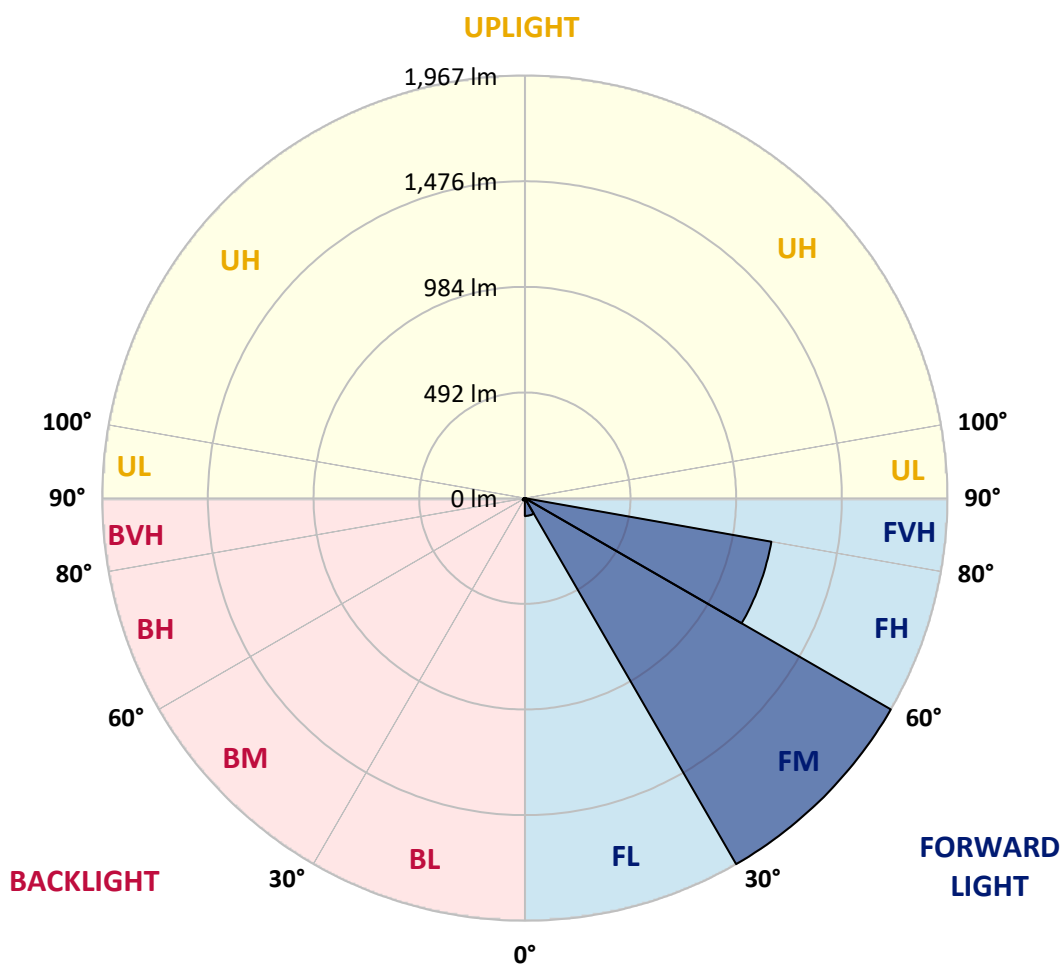
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 83.1   | 2.6       |                         |      |         |
| FM   | (30°-60°)   | 1967.4 | 60.6      |                         |      |         |
| FH   | (60°-80°)   | 1165.5 | 35.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 5.8    | 0.2       |                         |      | G0/10   |
| BL   | (0°-30°)    | 2.2    | 0.1       | B0/110                  |      |         |
| BM   | (30°-60°)   | 12.1   | 0.4       | B0/220                  |      |         |
| BH   | (60°-80°)   | 7.6    | 0.2       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.3    | 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-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°     | 15°    | 25°    | 35°    | 44°    | 45°    | 55°    | 65°    | 75°    |
|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 14.2  | 14.2   | 14.2   | 14.2   | 14.2   | 14.2   | 14.2   | 14.2   | 14.2   | 14.2   |
| 2.5°  | 18.4  | 18.4   | 17.6   | 16.7   | 15.7   | 14.7   | 14.5   | 14.0   | 13.7   | 13.5   |
| 5°    | 19.1  | 19.1   | 18.9   | 18.1   | 17.2   | 16.4   | 16.4   | 15.7   | 15.2   | 14.7   |
| 7.5°  | 19.6  | 19.8   | 20.3   | 20.1   | 19.6   | 18.9   | 18.9   | 18.4   | 17.6   | 16.4   |
| 10°   | 20.3  | 21.1   | 22.1   | 22.5   | 22.8   | 22.8   | 22.5   | 22.3   | 21.1   | 19.4   |
| 12.5° | 21.1  | 22.5   | 25.0   | 27.4   | 28.9   | 30.9   | 30.6   | 30.1   | 27.0   | 23.3   |
| 15°   | 22.5  | 24.8   | 29.9   | 37.0   | 48.0   | 54.9   | 57.6   | 55.1   | 44.6   | 31.4   |
| 17.5° | 24.3  | 27.9   | 43.4   | 77.4   | 126.9  | 150.5  | 164.7  | 153.2  | 101.5  | 59.5   |
| 20°   | 26.0  | 34.1   | 80.6   | 200.7  | 329.3  | 406.3  | 427.6  | 394.3  | 253.1  | 113.5  |
| 22.5° | 28.9  | 47.8   | 163.4  | 414.9  | 709.7  | 825.1  | 846.9  | 740.3  | 478.1  | 224.0  |
| 25°   | 35.0  | 69.3   | 281.8  | 676.1  | 1059.1 | 1253.9 | 1244.9 | 1105.2 | 775.6  | 357.8  |
| 27.5° | 43.9  | 101.0  | 426.1  | 960.6  | 1393.9 | 1565.6 | 1586.2 | 1413.5 | 1033.9 | 526.1  |
| 30°   | 56.6  | 139.9  | 581.0  | 1188.5 | 1662.2 | 1847.9 | 1851.4 | 1672.7 | 1265.0 | 673.9  |
| 32.5° | 68.9  | 176.7  | 716.5  | 1408.8 | 1926.6 | 2130.2 | 2145.4 | 1925.6 | 1437.5 | 827.8  |
| 35°   | 78.2  | 200.7  | 853.8  | 1602.4 | 2193.2 | 2473.8 | 2472.8 | 2211.8 | 1641.8 | 965.3  |
| 37.5° | 78.9  | 224.7  | 978.0  | 1800.4 | 2530.9 | 2845.0 | 2876.2 | 2588.5 | 1888.9 | 1135.3 |
| 40°   | 77.2  | 251.7  | 1135.3 | 2109.2 | 3139.4 | 3621.4 | 3648.8 | 3286.1 | 2384.3 | 1426.4 |
| 42.5° | 79.2  | 298.5  | 1390.7 | 2679.4 | 4149.7 | 4842.0 | 4894.9 | 4513.6 | 3295.2 | 2020.4 |
| 45°   | 89.4  | 386.4  | 1925.6 | 3633.4 | 5589.9 | 6433.8 | 6416.2 | 5867.0 | 4355.0 | 2924.7 |
| 47.5° | 123.5 | 601.8  | 2718.6 | 4561.9 | 6510.3 | 7261.8 | 7277.0 | 6605.8 | 4973.6 | 3619.9 |
| 50°   | 189.9 | 920.9  | 3384.9 | 5052.7 | 6906.0 | 7660.1 | 7645.8 | 6870.3 | 5208.6 | 3962.2 |
| 52.5° | 247.0 | 1151.7 | 3719.1 | 5225.0 | 6956.8 | 7856.8 | 7855.9 | 6939.8 | 5245.1 | 3991.6 |
| 55°   | 261.2 | 1169.1 | 3721.8 | 5234.3 | 7070.5 | 8114.4 | 8146.7 | 7111.1 | 5292.4 | 3863.2 |
| 57.5° | 255.6 | 1035.1 | 3566.5 | 5288.2 | 7272.9 | 8313.6 | 8315.3 | 7277.0 | 5412.4 | 3784.6 |
| 58°   | 250.7 | 1014.0 | 3535.1 | 5318.8 | 7307.7 | 8321.9 | 8317.8 | 7284.6 | 5510.2 | 3781.6 |
| 60°   | 223.2 | 880.5  | 3412.8 | 5397.0 | 7256.0 | 8150.9 | 8111.9 | 7118.7 | 5495.8 | 3751.5 |
| 62.5° | 175.5 | 686.9  | 3292.5 | 5306.6 | 6701.7 | 7322.9 | 7339.0 | 6302.5 | 5010.1 | 3575.8 |
| 65°   | 139.7 | 511.9  | 3041.6 | 4654.7 | 5518.6 | 6013.6 | 6073.8 | 5125.0 | 4181.8 | 3027.9 |
| 67.5° | 111.3 | 370.0  | 2551.5 | 3705.9 | 4366.8 | 5018.9 | 5062.8 | 4302.9 | 3239.8 | 2319.9 |
| 70°   | 90.4  | 250.2  | 1761.2 | 2710.3 | 3601.8 | 4335.0 | 4337.7 | 3574.6 | 2418.2 | 1520.1 |
| 72.5° | 80.1  | 173.3  | 1022.4 | 1976.6 | 2920.5 | 3532.4 | 3461.1 | 2900.7 | 1858.5 | 900.3  |
| 75°   | 69.3  | 114.9  | 501.4  | 1208.3 | 1770.7 | 1782.7 | 1809.9 | 1345.6 | 929.0  | 428.1  |
| 77.5° | 57.1  | 81.6   | 197.5  | 330.1  | 531.0  | 679.8  | 705.0  | 534.2  | 309.0  | 105.4  |
| 80°   | 39.2  | 38.7   | 53.2   | 101.2  | 151.9  | 190.4  | 177.7  | 137.5  | 80.9   | 40.4   |
| 82.5° | 16.9  | 18.4   | 24.0   | 28.9   | 23.5   | 22.8   | 21.8   | 14.0   | 10.8   | 8.3    |
| 85°   | 5.4   | 4.9    | 5.1    | 5.1    | 4.2    | 3.2    | 3.2    | 1.5    | 0.0    | 0.0    |
| 87.5° | 2.7   | 2.2    | 2.2    | 2.0    | 1.2    | 0.5    | 0.2    | 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° |
|--------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 14.2   | 0°    | 14.2  | 14.2  | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 |
| 13.2   | 2.5°  | 13.0  | 13.0  | 12.5 | 12.0 | 11.8 | 11.3 | 11.0 | 10.8 | 10.5 | 10.3 |
| 14.2   | 5°    | 13.7  | 13.5  | 12.7 | 12.0 | 11.3 | 10.5 | 10.0 | 9.6  | 9.1  | 8.8  |
| 15.7   | 7.5°  | 14.9  | 14.5  | 13.0 | 11.8 | 10.8 | 9.8  | 9.3  | 8.6  | 8.1  | 7.4  |
| 17.4   | 10°   | 16.4  | 15.4  | 13.5 | 12.0 | 10.5 | 9.3  | 8.6  | 7.8  | 7.1  | 6.1  |
| 19.8   | 12.5° | 18.4  | 16.7  | 14.2 | 11.8 | 10.0 | 8.6  | 7.8  | 6.9  | 6.1  | 5.4  |
| 23.0   | 15°   | 20.1  | 17.9  | 14.5 | 11.8 | 9.6  | 7.8  | 6.9  | 5.9  | 5.1  | 4.2  |
| 28.9   | 17.5° | 22.5  | 18.9  | 14.2 | 11.0 | 8.8  | 6.9  | 5.9  | 5.1  | 3.9  | 2.5  |
| 42.9   | 20°   | 26.7  | 19.6  | 13.7 | 10.3 | 7.6  | 5.6  | 4.4  | 3.4  | 1.7  | 0.5  |
| 64.4   | 22.5° | 33.3  | 21.6  | 13.2 | 9.3  | 6.6  | 4.4  | 2.9  | 1.2  | 0.0  | 0.0  |
| 98.0   | 25°   | 46.1  | 25.0  | 13.2 | 8.8  | 5.9  | 3.2  | 1.0  | 0.0  | 0.0  | 0.0  |
| 139.2  | 27.5° | 61.3  | 29.7  | 13.2 | 7.6  | 4.7  | 1.7  | 0.0  | 0.0  | 0.0  | 0.0  |
| 189.7  | 30°   | 76.7  | 34.8  | 13.2 | 6.6  | 3.7  | 0.2  | 0.0  | 0.0  | 0.0  | 0.0  |
| 233.5  | 32.5° | 91.4  | 39.2  | 13.5 | 5.6  | 2.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 294.3  | 35°   | 106.4 | 39.9  | 13.2 | 4.9  | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 368.8  | 37.5° | 125.5 | 38.5  | 12.5 | 4.4  | 0.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 485.2  | 40°   | 154.4 | 39.2  | 11.8 | 4.2  | 0.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 692.8  | 42.5° | 207.8 | 42.4  | 10.8 | 4.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1103.5 | 45°   | 359.2 | 56.9  | 9.8  | 4.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1656.5 | 47.5° | 594.2 | 102.2 | 9.6  | 4.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1995.5 | 50°   | 758.4 | 128.7 | 10.0 | 4.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2037.8 | 52.5° | 757.2 | 143.4 | 10.5 | 4.9  | 1.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1878.3 | 55°   | 673.2 | 146.1 | 11.3 | 5.4  | 3.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1614.2 | 57.5° | 562.6 | 133.3 | 13.0 | 6.6  | 5.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1572.7 | 58°   | 543.0 | 127.4 | 13.5 | 6.9  | 6.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1364.2 | 60°   | 445.0 | 103.9 | 17.2 | 8.6  | 8.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1118.4 | 62.5° | 307.3 | 90.7  | 19.6 | 11.0 | 8.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 824.6  | 65°   | 217.4 | 81.8  | 21.3 | 11.8 | 7.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 585.9  | 67.5° | 162.5 | 75.5  | 23.5 | 12.0 | 3.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 367.6  | 70°   | 124.5 | 70.8  | 28.9 | 12.7 | 1.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 219.1  | 72.5° | 101.5 | 65.4  | 35.0 | 13.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 131.3  | 75°   | 84.1  | 59.1  | 33.8 | 14.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 70.1   | 77.5° | 55.9  | 45.8  | 30.9 | 14.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 25.0   | 80°   | 19.6  | 18.1  | 24.0 | 12.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5.1    | 82.5° | 2.9   | 2.5   | 3.4  | 4.4  | 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° |
|------|-------|------|------|------|------|------|------|------|------|------|------|
| 14.2 | 0°    | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 |
| 10.0 | 2.5°  | 10.0 | 10.0 | 9.8  | 10.0 | 10.0 | 10.5 | 11.8 | 13.5 | 15.4 | 16.2 |
| 8.6  | 5°    | 8.3  | 8.1  | 7.8  | 7.8  | 7.8  | 8.6  | 9.6  | 11.5 | 13.7 | 14.7 |
| 7.1  | 7.5°  | 6.9  | 6.6  | 6.4  | 6.1  | 6.1  | 6.6  | 7.8  | 10.0 | 12.3 | 13.2 |
| 5.9  | 10°   | 5.6  | 5.1  | 4.9  | 4.7  | 4.7  | 5.1  | 6.4  | 8.6  | 11.0 | 12.0 |
| 4.9  | 12.5° | 4.7  | 3.9  | 3.4  | 3.2  | 2.9  | 3.7  | 4.9  | 6.9  | 9.6  | 10.8 |
| 3.7  | 15°   | 3.2  | 2.5  | 1.7  | 1.5  | 1.2  | 2.0  | 3.2  | 5.4  | 8.1  | 9.6  |
| 2.0  | 17.5° | 1.7  | 0.7  | 0.2  | 0.0  | 0.0  | 0.5  | 1.5  | 3.9  | 6.6  | 7.8  |
| 0.0  | 20°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | 4.9  | 6.1  |
| 0.0  | 22.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.2  | 2.9  | 4.2  |
| 0.0  | 25°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.2  | 2.2  |
| 0.0  | 27.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.5  |
| 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  | 0.7  |
| 0.0  | 87.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.0  | 2.0  |
| 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: P1049895

CATALOG NUMBER: GALN-SA1C-927-U-LBC

**CANDELA DISTRIBUTION (continued):**

| 275° |       | 285° | 295° | 305° | 315° | 316° | 325° | 335° | 345° | 355° | 360°  |
|------|-------|------|------|------|------|------|------|------|------|------|-------|
| 14.2 | 0°    | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 | 14.2  |
| 16.9 | 2.5°  | 17.4 | 17.2 | 16.7 | 16.2 | 16.2 | 16.2 | 16.9 | 17.6 | 18.4 | 18.4  |
| 15.2 | 5°    | 16.2 | 16.2 | 15.9 | 15.4 | 15.4 | 15.7 | 16.7 | 17.9 | 18.9 | 19.1  |
| 14.0 | 7.5°  | 14.9 | 15.4 | 14.9 | 14.7 | 14.9 | 15.2 | 16.2 | 17.6 | 19.1 | 19.6  |
| 13.0 | 10°   | 14.2 | 14.5 | 14.5 | 14.2 | 14.2 | 14.7 | 15.7 | 17.6 | 19.6 | 20.3  |
| 11.8 | 12.5° | 13.2 | 13.7 | 13.5 | 13.5 | 13.5 | 14.0 | 15.2 | 17.4 | 20.1 | 21.1  |
| 10.5 | 15°   | 12.3 | 13.0 | 13.0 | 12.7 | 12.7 | 13.0 | 14.7 | 17.2 | 20.8 | 22.5  |
| 9.1  | 17.5° | 11.3 | 12.0 | 12.3 | 11.8 | 11.8 | 12.3 | 14.0 | 17.2 | 21.3 | 24.3  |
| 7.4  | 20°   | 9.3  | 10.5 | 11.3 | 10.5 | 10.5 | 11.0 | 12.7 | 16.2 | 21.6 | 26.0  |
| 5.4  | 22.5° | 7.4  | 8.6  | 9.6  | 9.3  | 9.3  | 9.6  | 11.8 | 15.4 | 21.8 | 28.9  |
| 3.2  | 25°   | 5.4  | 6.6  | 7.4  | 7.8  | 7.8  | 8.6  | 10.8 | 14.9 | 22.8 | 35.0  |
| 1.5  | 27.5° | 3.2  | 4.7  | 5.6  | 6.1  | 6.4  | 7.4  | 10.0 | 14.5 | 24.5 | 43.9  |
| 0.0  | 30°   | 1.5  | 2.7  | 3.9  | 4.9  | 4.9  | 6.6  | 9.3  | 14.0 | 26.7 | 56.6  |
| 0.0  | 32.5° | 0.0  | 1.2  | 2.0  | 3.4  | 3.7  | 5.4  | 8.6  | 13.5 | 29.9 | 68.9  |
| 0.0  | 35°   | 0.0  | 0.0  | 1.0  | 2.7  | 2.7  | 4.4  | 7.8  | 13.0 | 34.8 | 78.2  |
| 0.0  | 37.5° | 0.0  | 0.0  | 0.0  | 2.0  | 2.2  | 3.9  | 7.6  | 12.7 | 35.8 | 78.9  |
| 0.0  | 40°   | 0.0  | 0.0  | 0.0  | 1.5  | 1.7  | 3.7  | 7.6  | 13.0 | 32.3 | 77.2  |
| 0.0  | 42.5° | 0.0  | 0.0  | 0.0  | 1.0  | 1.2  | 3.7  | 7.6  | 13.5 | 29.2 | 79.2  |
| 0.0  | 45°   | 0.0  | 0.0  | 0.0  | 0.7  | 1.0  | 3.9  | 7.4  | 13.2 | 27.4 | 89.4  |
| 0.0  | 47.5° | 0.0  | 0.0  | 0.0  | 1.0  | 1.5  | 3.9  | 7.1  | 13.0 | 27.7 | 123.5 |
| 0.0  | 50°   | 0.0  | 0.0  | 0.0  | 1.2  | 1.7  | 3.9  | 7.4  | 12.5 | 30.4 | 189.9 |
| 0.0  | 52.5° | 0.0  | 0.0  | 0.0  | 1.0  | 1.5  | 4.4  | 8.1  | 12.3 | 33.1 | 247.0 |
| 0.0  | 55°   | 0.0  | 0.0  | 0.0  | 0.2  | 0.7  | 5.6  | 8.8  | 12.3 | 37.2 | 261.2 |
| 0.0  | 57.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.4  | 10.0 | 13.0 | 44.1 | 255.6 |
| 0.0  | 58°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.4  | 10.3 | 13.0 | 44.6 | 250.7 |
| 0.0  | 60°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.4  | 11.3 | 14.5 | 48.0 | 223.2 |
| 0.0  | 62.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.4  | 13.5 | 18.1 | 50.0 | 175.5 |
| 0.0  | 65°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.4  | 15.9 | 19.8 | 51.5 | 139.7 |
| 0.0  | 67.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.2  | 16.4 | 20.1 | 52.2 | 111.3 |
| 0.0  | 70°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.4  | 16.2 | 21.6 | 54.6 | 90.4  |
| 0.0  | 72.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.9  | 14.7 | 23.8 | 54.6 | 80.1  |
| 0.0  | 75°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.1  | 13.7 | 26.7 | 49.7 | 69.3  |
| 0.0  | 77.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.9  | 13.5 | 31.1 | 44.4 | 57.1  |
| 0.0  | 80°   | 0.5  | 0.7  | 0.7  | 0.5  | 0.5  | 4.2  | 13.2 | 31.6 | 37.7 | 39.2  |
| 0.2  | 82.5° | 1.5  | 2.0  | 1.7  | 1.2  | 1.2  | 3.7  | 11.8 | 26.5 | 19.6 | 16.9  |
| 1.5  | 85°   | 2.7  | 3.2  | 3.2  | 2.7  | 2.7  | 3.4  | 7.4  | 9.6  | 6.6  | 5.4   |
| 2.7  | 87.5° | 3.7  | 4.2  | 4.2  | 3.7  | 3.7  | 3.4  | 3.2  | 2.9  | 2.7  | 2.7   |
| 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



Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-13

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-927-U-5WQ

Data in this report applies to families of products including GSS-SB1A-927-U-5WQ

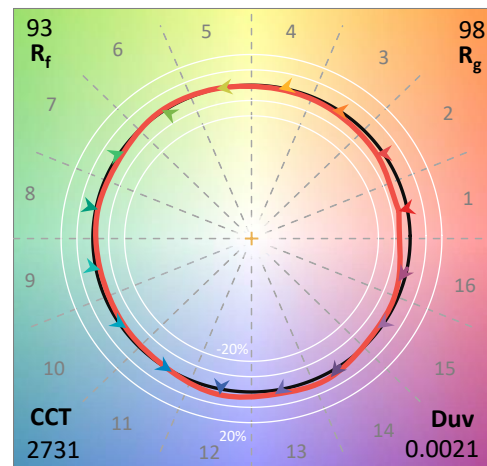
### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2407-184-13  
 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-927-U-5WQ**  
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI  
 2700K CCT 26 LEDS

### Spectral Parameters

CCT (K): 2731  
 CIE  $u'$ : 0.2605  
 CIE  $v'$ : 0.5298  
 Duv: 0.0021  
 CIE x: 0.4610  
 CIE y: 0.4166  
 CIE z: 0.1224  
 Peak Wavelength (nm): 622  
 Dominant Wavelength (nm): 583  
 Purity: 63.43685  
 R<sub>f</sub>: 92.6  
 R<sub>g</sub>: 98

CRI (Ra): 91.8  
 R1: 91.4  
 R2: 95.1  
 R3: 97.6  
 R4: 92.3  
 R5: 91.1  
 R6: 94.7  
 R7: 92.3  
 R8: 80.0  
 R9: 54.7  
 R10: 87.7  
 R11: 92.9  
 R12: 84.0  
 R13: 92.2  
 R14: 97.8  
 R15: 86.8



### Test Conditions

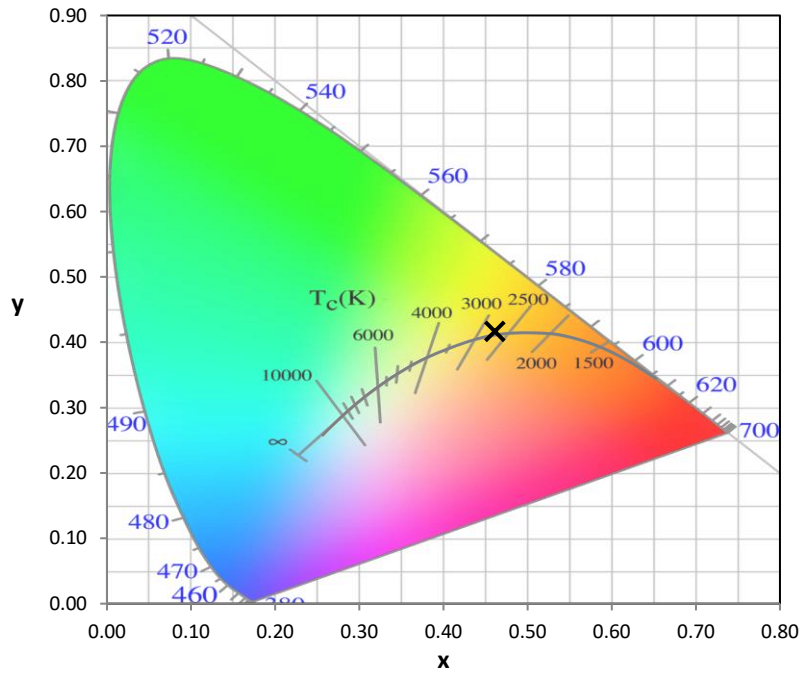
Stabilization Time: M  
 Operation Time: 1H 0M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-13

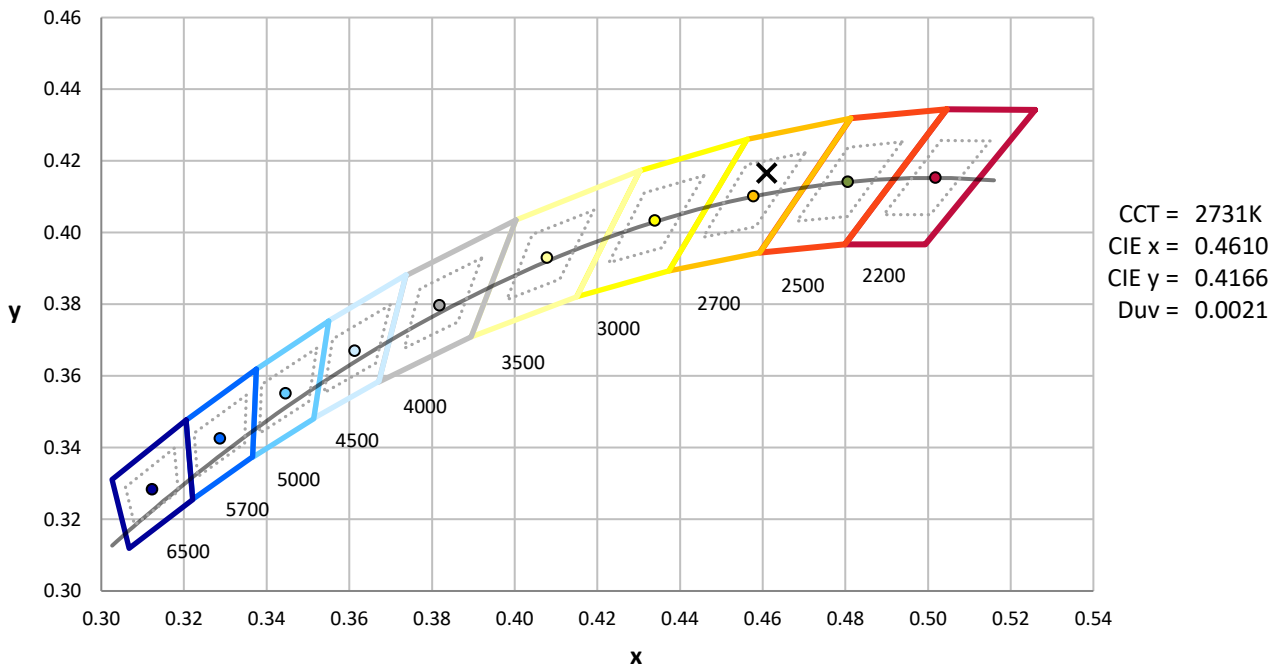
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date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

REPORT NUMBER: SP1-2407-184-13

**CIE 1931 Chromaticity Diagram**

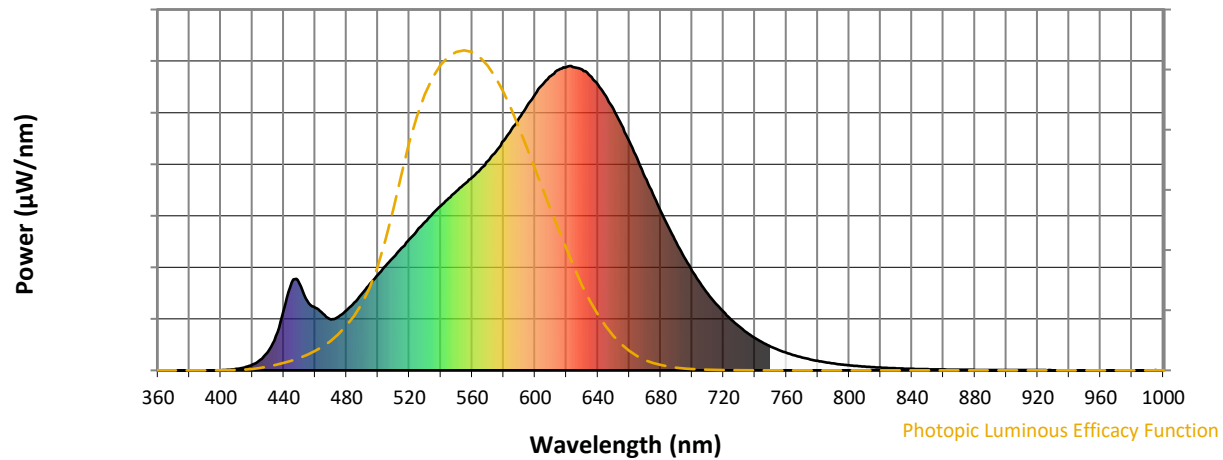


**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



REPORT NUMBER: SP1-2407-184-13

### Photopic Flux vs. Wavelength

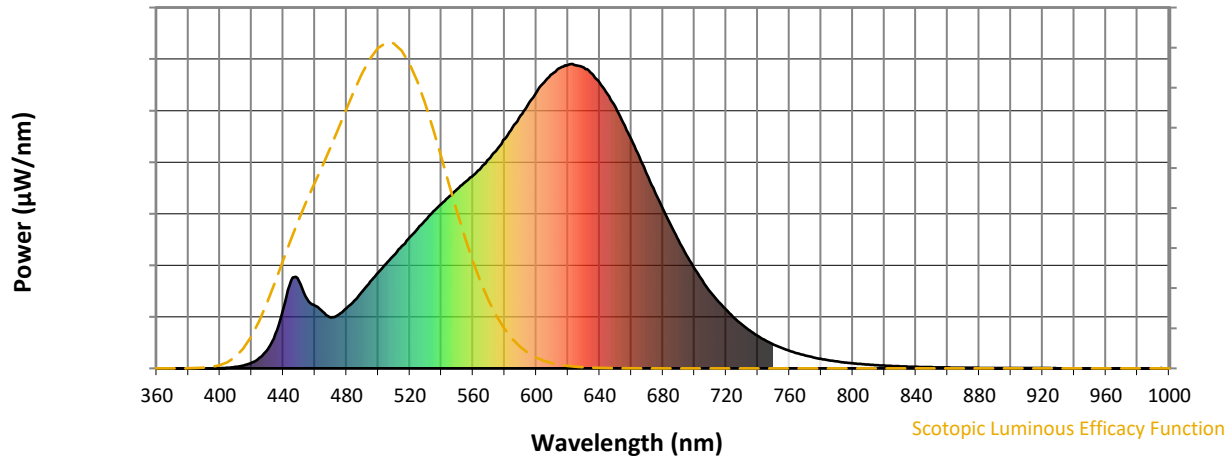


### Photopic Lumens: NR

| $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) |
|-------------------|----------------------------------------|--------------------------------|-------------------|----------------------------------------|--------------------------------|-------------------|----------------------------------------|--------------------------------|-------------------|----------------------------------------|--------------------------------|-------------------|----------------------------------------|--------------------------------|
| 360               | 0                                      | NR                             | 490               | 253                                    | NR                             | 620               | 997                                    | NR                             | 750               | 78                                     | NR                             | 880               | 2                                      | NR                             |
| 365               | 0                                      | NR                             | 495               | 285                                    | NR                             | 625               | 996                                    | NR                             | 755               | 67                                     | NR                             | 885               | 1                                      | NR                             |
| 370               | 0                                      | NR                             | 500               | 314                                    | NR                             | 630               | 989                                    | NR                             | 760               | 58                                     | NR                             | 890               | 1                                      | NR                             |
| 375               | 0                                      | NR                             | 505               | 343                                    | NR                             | 635               | 969                                    | NR                             | 765               | 50                                     | NR                             | 895               | 1                                      | NR                             |
| 380               | 0                                      | NR                             | 510               | 372                                    | NR                             | 640               | 939                                    | NR                             | 770               | 42                                     | NR                             | 900               | 1                                      | NR                             |
| 385               | 0                                      | NR                             | 515               | 401                                    | NR                             | 645               | 901                                    | NR                             | 775               | 36                                     | NR                             | 905               | 1                                      | NR                             |
| 390               | 0                                      | NR                             | 520               | 431                                    | NR                             | 650               | 858                                    | NR                             | 780               | 31                                     | NR                             | 910               | 1                                      | NR                             |
| 395               | 0                                      | NR                             | 525               | 459                                    | NR                             | 655               | 806                                    | NR                             | 785               | 26                                     | NR                             | 915               | 1                                      | NR                             |
| 400               | 0                                      | NR                             | 530               | 488                                    | NR                             | 660               | 752                                    | NR                             | 790               | 23                                     | NR                             | 920               | 1                                      | NR                             |
| 405               | 2                                      | NR                             | 535               | 516                                    | NR                             | 665               | 696                                    | NR                             | 795               | 19                                     | NR                             | 925               | 1                                      | NR                             |
| 410               | 5                                      | NR                             | 540               | 540                                    | NR                             | 670               | 636                                    | NR                             | 800               | 17                                     | NR                             | 930               | 0                                      | NR                             |
| 415               | 10                                     | NR                             | 545               | 566                                    | NR                             | 675               | 579                                    | NR                             | 805               | 14                                     | NR                             | 935               | 0                                      | NR                             |
| 420               | 19                                     | NR                             | 550               | 589                                    | NR                             | 680               | 524                                    | NR                             | 810               | 12                                     | NR                             | 940               | 0                                      | NR                             |
| 425               | 34                                     | NR                             | 555               | 612                                    | NR                             | 685               | 470                                    | NR                             | 815               | 11                                     | NR                             | 945               | 0                                      | NR                             |
| 430               | 61                                     | NR                             | 560               | 634                                    | NR                             | 690               | 421                                    | NR                             | 820               | 9                                      | NR                             | 950               | 0                                      | NR                             |
| 435               | 113                                    | NR                             | 565               | 660                                    | NR                             | 695               | 371                                    | NR                             | 825               | 8                                      | NR                             | 955               | 0                                      | NR                             |
| 440               | 198                                    | NR                             | 570               | 688                                    | NR                             | 700               | 327                                    | NR                             | 830               | 7                                      | NR                             | 960               | 0                                      | NR                             |
| 445               | 288                                    | NR                             | 575               | 719                                    | NR                             | 705               | 288                                    | NR                             | 835               | 6                                      | NR                             | 965               | 0                                      | NR                             |
| 450               | 286                                    | NR                             | 580               | 754                                    | NR                             | 710               | 251                                    | NR                             | 840               | 5                                      | NR                             | 970               | 0                                      | NR                             |
| 455               | 228                                    | NR                             | 585               | 791                                    | NR                             | 715               | 220                                    | NR                             | 845               | 4                                      | NR                             | 975               | 0                                      | NR                             |
| 460               | 207                                    | NR                             | 590               | 831                                    | NR                             | 720               | 192                                    | NR                             | 850               | 4                                      | NR                             | 980               | 0                                      | NR                             |
| 465               | 186                                    | NR                             | 595               | 870                                    | NR                             | 725               | 166                                    | NR                             | 855               | 3                                      | NR                             | 985               | 0                                      | NR                             |
| 470               | 168                                    | NR                             | 600               | 907                                    | NR                             | 730               | 144                                    | NR                             | 860               | 3                                      | NR                             | 990               | 1                                      | NR                             |
| 475               | 177                                    | NR                             | 605               | 940                                    | NR                             | 735               | 124                                    | NR                             | 865               | 2                                      | NR                             | 995               | 1                                      | NR                             |
| 480               | 198                                    | NR                             | 610               | 967                                    | NR                             | 740               | 106                                    | NR                             | 870               | 2                                      | NR                             | 1000              | 0                                      | NR                             |
| 485               | 223                                    | NR                             | 615               | 988                                    | NR                             | 745               | 91                                     | NR                             | 875               | 2                                      | NR                             |                   |                                        |                                |

REPORT NUMBER: SP1-2407-184-13

### Scotopic Flux vs. Wavelength



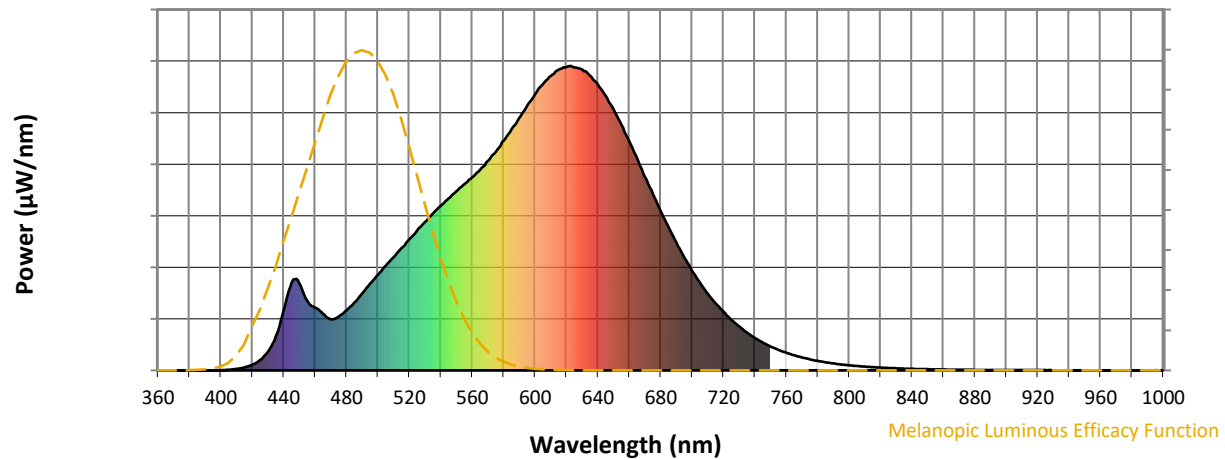
Scotopic Lumens: NR

S/P: 1.27

| 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    | 253                      | NR            | 620    | 997                      | NR            | 750    | 78                       | NR            | 880    | 2                        | NR            |
| 365    | 0                        | NR            | 495    | 285                      | NR            | 625    | 996                      | NR            | 755    | 67                       | NR            | 885    | 1                        | NR            |
| 370    | 0                        | NR            | 500    | 314                      | NR            | 630    | 989                      | NR            | 760    | 58                       | NR            | 890    | 1                        | NR            |
| 375    | 0                        | NR            | 505    | 343                      | NR            | 635    | 969                      | NR            | 765    | 50                       | NR            | 895    | 1                        | NR            |
| 380    | 0                        | NR            | 510    | 372                      | NR            | 640    | 939                      | NR            | 770    | 42                       | NR            | 900    | 1                        | NR            |
| 385    | 0                        | NR            | 515    | 401                      | NR            | 645    | 901                      | NR            | 775    | 36                       | NR            | 905    | 1                        | NR            |
| 390    | 0                        | NR            | 520    | 431                      | NR            | 650    | 858                      | NR            | 780    | 31                       | NR            | 910    | 1                        | NR            |
| 395    | 0                        | NR            | 525    | 459                      | NR            | 655    | 806                      | NR            | 785    | 26                       | NR            | 915    | 1                        | NR            |
| 400    | 0                        | NR            | 530    | 488                      | NR            | 660    | 752                      | NR            | 790    | 23                       | NR            | 920    | 1                        | NR            |
| 405    | 2                        | NR            | 535    | 516                      | NR            | 665    | 696                      | NR            | 795    | 19                       | NR            | 925    | 1                        | NR            |
| 410    | 5                        | NR            | 540    | 540                      | NR            | 670    | 636                      | NR            | 800    | 17                       | NR            | 930    | 0                        | NR            |
| 415    | 10                       | NR            | 545    | 566                      | NR            | 675    | 579                      | NR            | 805    | 14                       | NR            | 935    | 0                        | NR            |
| 420    | 19                       | NR            | 550    | 589                      | NR            | 680    | 524                      | NR            | 810    | 12                       | NR            | 940    | 0                        | NR            |
| 425    | 34                       | NR            | 555    | 612                      | NR            | 685    | 470                      | NR            | 815    | 11                       | NR            | 945    | 0                        | NR            |
| 430    | 61                       | NR            | 560    | 634                      | NR            | 690    | 421                      | NR            | 820    | 9                        | NR            | 950    | 0                        | NR            |
| 435    | 113                      | NR            | 565    | 660                      | NR            | 695    | 371                      | NR            | 825    | 8                        | NR            | 955    | 0                        | NR            |
| 440    | 198                      | NR            | 570    | 688                      | NR            | 700    | 327                      | NR            | 830    | 7                        | NR            | 960    | 0                        | NR            |
| 445    | 288                      | NR            | 575    | 719                      | NR            | 705    | 288                      | NR            | 835    | 6                        | NR            | 965    | 0                        | NR            |
| 450    | 286                      | NR            | 580    | 754                      | NR            | 710    | 251                      | NR            | 840    | 5                        | NR            | 970    | 0                        | NR            |
| 455    | 228                      | NR            | 585    | 791                      | NR            | 715    | 220                      | NR            | 845    | 4                        | NR            | 975    | 0                        | NR            |
| 460    | 207                      | NR            | 590    | 831                      | NR            | 720    | 192                      | NR            | 850    | 4                        | NR            | 980    | 0                        | NR            |
| 465    | 186                      | NR            | 595    | 870                      | NR            | 725    | 166                      | NR            | 855    | 3                        | NR            | 985    | 0                        | NR            |
| 470    | 168                      | NR            | 600    | 907                      | NR            | 730    | 144                      | NR            | 860    | 3                        | NR            | 990    | 1                        | NR            |
| 475    | 177                      | NR            | 605    | 940                      | NR            | 735    | 124                      | NR            | 865    | 2                        | NR            | 995    | 1                        | NR            |
| 480    | 198                      | NR            | 610    | 967                      | NR            | 740    | 106                      | NR            | 870    | 2                        | NR            | 1000   | 0                        | NR            |
| 485    | 223                      | NR            | 615    | 988                      | NR            | 745    | 91                       | NR            | 875    | 2                        | NR            |        |                          |               |

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### Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.38

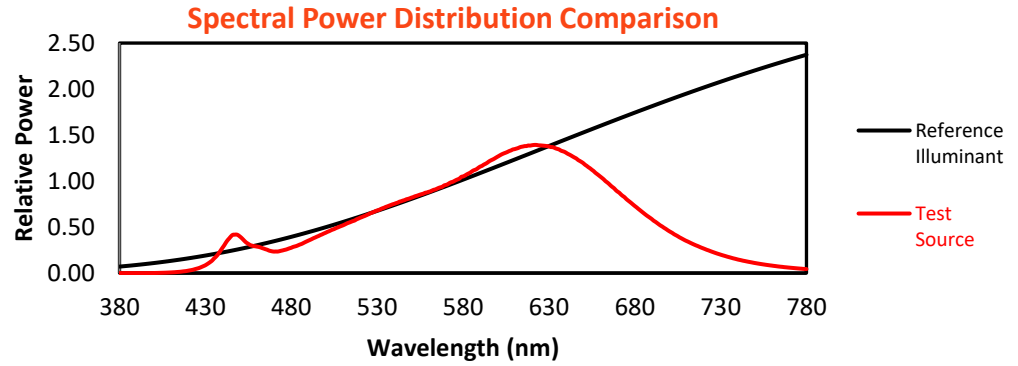
| $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) |
|-------------------|----------------------------------------|--------------------------------|-------------------|----------------------------------------|--------------------------------|-------------------|----------------------------------------|--------------------------------|-------------------|----------------------------------------|--------------------------------|-------------------|----------------------------------------|--------------------------------|
| 360               | 0                                      | NR                             | 490               | 253                                    | NR                             | 620               | 997                                    | NR                             | 750               | 78                                     | NR                             | 880               | 2                                      | NR                             |
| 365               | 0                                      | NR                             | 495               | 285                                    | NR                             | 625               | 996                                    | NR                             | 755               | 67                                     | NR                             | 885               | 1                                      | NR                             |
| 370               | 0                                      | NR                             | 500               | 314                                    | NR                             | 630               | 989                                    | NR                             | 760               | 58                                     | NR                             | 890               | 1                                      | NR                             |
| 375               | 0                                      | NR                             | 505               | 343                                    | NR                             | 635               | 969                                    | NR                             | 765               | 50                                     | NR                             | 895               | 1                                      | NR                             |
| 380               | 0                                      | NR                             | 510               | 372                                    | NR                             | 640               | 939                                    | NR                             | 770               | 42                                     | NR                             | 900               | 1                                      | NR                             |
| 385               | 0                                      | NR                             | 515               | 401                                    | NR                             | 645               | 901                                    | NR                             | 775               | 36                                     | NR                             | 905               | 1                                      | NR                             |
| 390               | 0                                      | NR                             | 520               | 431                                    | NR                             | 650               | 858                                    | NR                             | 780               | 31                                     | NR                             | 910               | 1                                      | NR                             |
| 395               | 0                                      | NR                             | 525               | 459                                    | NR                             | 655               | 806                                    | NR                             | 785               | 26                                     | NR                             | 915               | 1                                      | NR                             |
| 400               | 0                                      | NR                             | 530               | 488                                    | NR                             | 660               | 752                                    | NR                             | 790               | 23                                     | NR                             | 920               | 1                                      | NR                             |
| 405               | 2                                      | NR                             | 535               | 516                                    | NR                             | 665               | 696                                    | NR                             | 795               | 19                                     | NR                             | 925               | 1                                      | NR                             |
| 410               | 5                                      | NR                             | 540               | 540                                    | NR                             | 670               | 636                                    | NR                             | 800               | 17                                     | NR                             | 930               | 0                                      | NR                             |
| 415               | 10                                     | NR                             | 545               | 566                                    | NR                             | 675               | 579                                    | NR                             | 805               | 14                                     | NR                             | 935               | 0                                      | NR                             |
| 420               | 19                                     | NR                             | 550               | 589                                    | NR                             | 680               | 524                                    | NR                             | 810               | 12                                     | NR                             | 940               | 0                                      | NR                             |
| 425               | 34                                     | NR                             | 555               | 612                                    | NR                             | 685               | 470                                    | NR                             | 815               | 11                                     | NR                             | 945               | 0                                      | NR                             |
| 430               | 61                                     | NR                             | 560               | 634                                    | NR                             | 690               | 421                                    | NR                             | 820               | 9                                      | NR                             | 950               | 0                                      | NR                             |
| 435               | 113                                    | NR                             | 565               | 660                                    | NR                             | 695               | 371                                    | NR                             | 825               | 8                                      | NR                             | 955               | 0                                      | NR                             |
| 440               | 198                                    | NR                             | 570               | 688                                    | NR                             | 700               | 327                                    | NR                             | 830               | 7                                      | NR                             | 960               | 0                                      | NR                             |
| 445               | 288                                    | NR                             | 575               | 719                                    | NR                             | 705               | 288                                    | NR                             | 835               | 6                                      | NR                             | 965               | 0                                      | NR                             |
| 450               | 286                                    | NR                             | 580               | 754                                    | NR                             | 710               | 251                                    | NR                             | 840               | 5                                      | NR                             | 970               | 0                                      | NR                             |
| 455               | 228                                    | NR                             | 585               | 791                                    | NR                             | 715               | 220                                    | NR                             | 845               | 4                                      | NR                             | 975               | 0                                      | NR                             |
| 460               | 207                                    | NR                             | 590               | 831                                    | NR                             | 720               | 192                                    | NR                             | 850               | 4                                      | NR                             | 980               | 0                                      | NR                             |
| 465               | 186                                    | NR                             | 595               | 870                                    | NR                             | 725               | 166                                    | NR                             | 855               | 3                                      | NR                             | 985               | 0                                      | NR                             |
| 470               | 168                                    | NR                             | 600               | 907                                    | NR                             | 730               | 144                                    | NR                             | 860               | 3                                      | NR                             | 990               | 1                                      | NR                             |
| 475               | 177                                    | NR                             | 605               | 940                                    | NR                             | 735               | 124                                    | NR                             | 865               | 2                                      | NR                             | 995               | 1                                      | NR                             |
| 480               | 198                                    | NR                             | 610               | 967                                    | NR                             | 740               | 106                                    | NR                             | 870               | 2                                      | NR                             | 1000              | 0                                      | NR                             |
| 485               | 223                                    | NR                             | 615               | 988                                    | NR                             | 745               | 91                                     | NR                             | 875               | 2                                      | NR                             |                   |                                        |                                |

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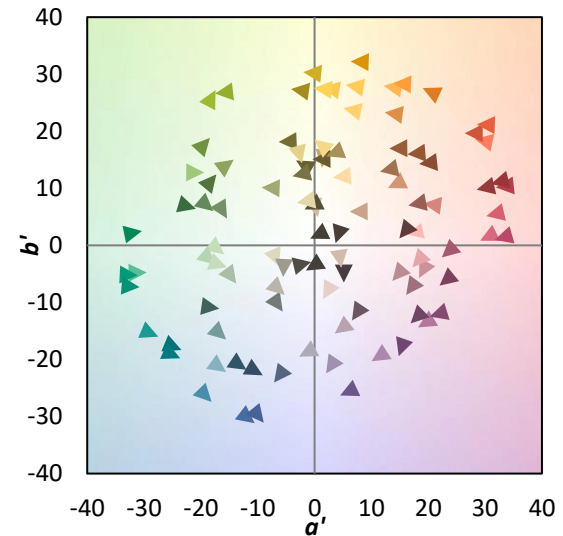
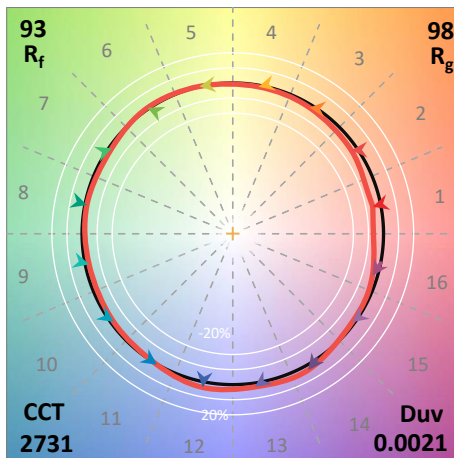
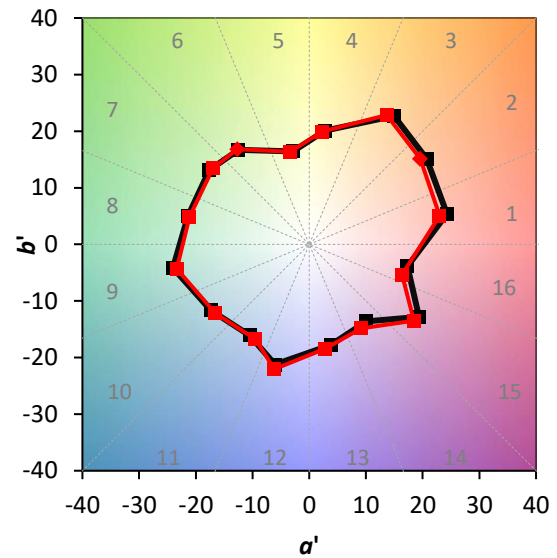
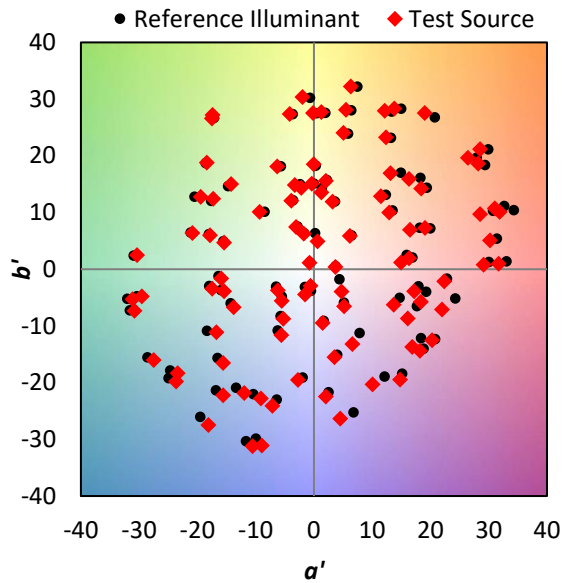
TM-30-18

### Summary

$R_f = 92.6$   
 $R_g = 98$   
 $CIE R_a = 91.8$   
 $R_9 = 54.7$

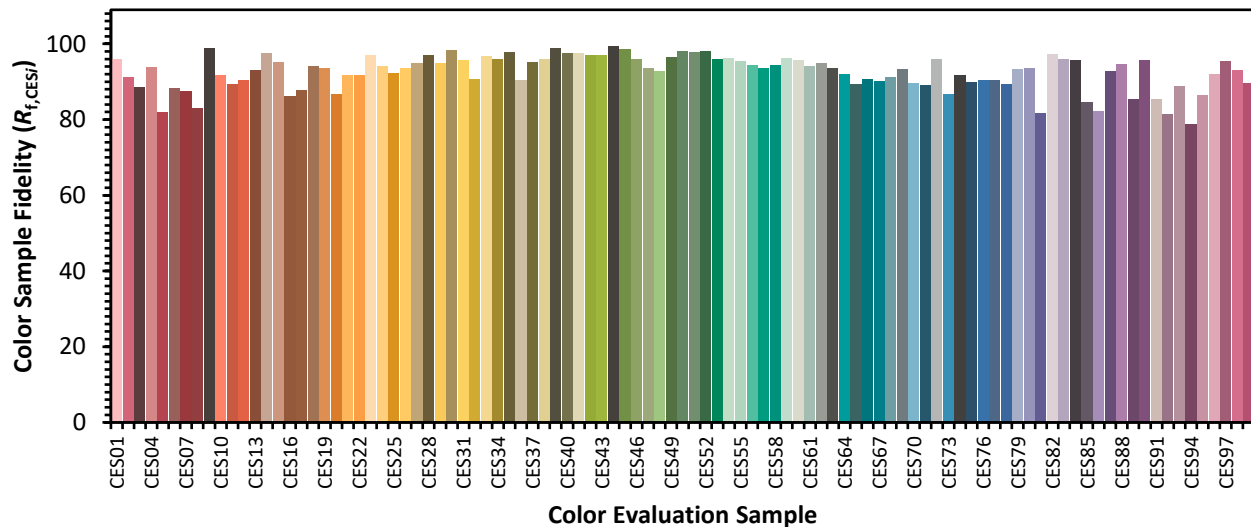


### Color Vector Graphics

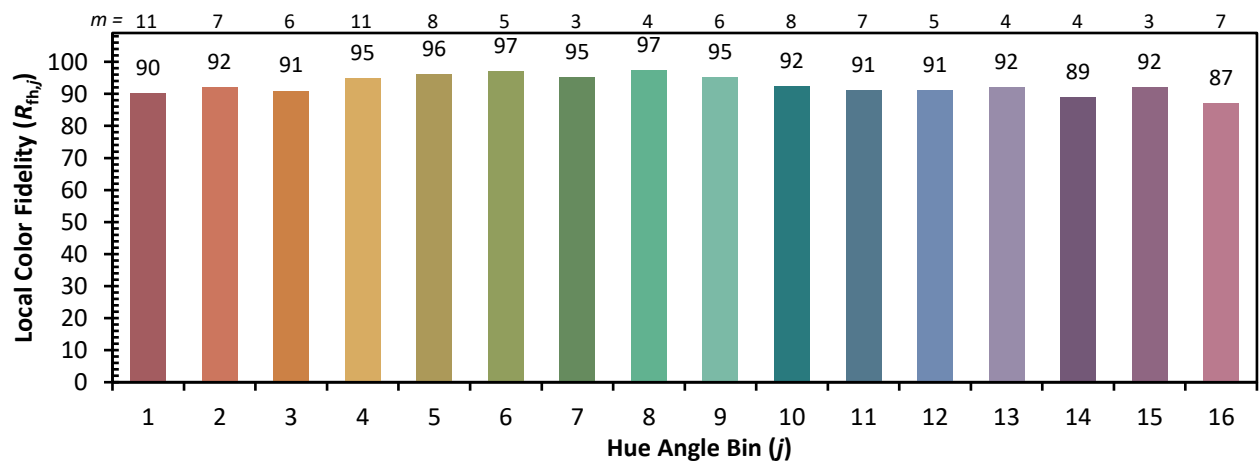
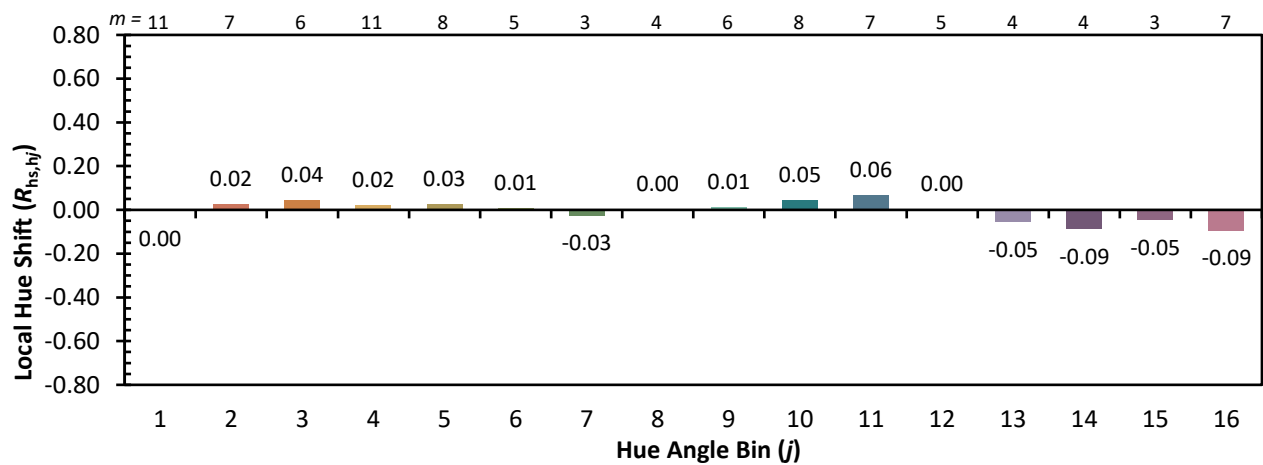
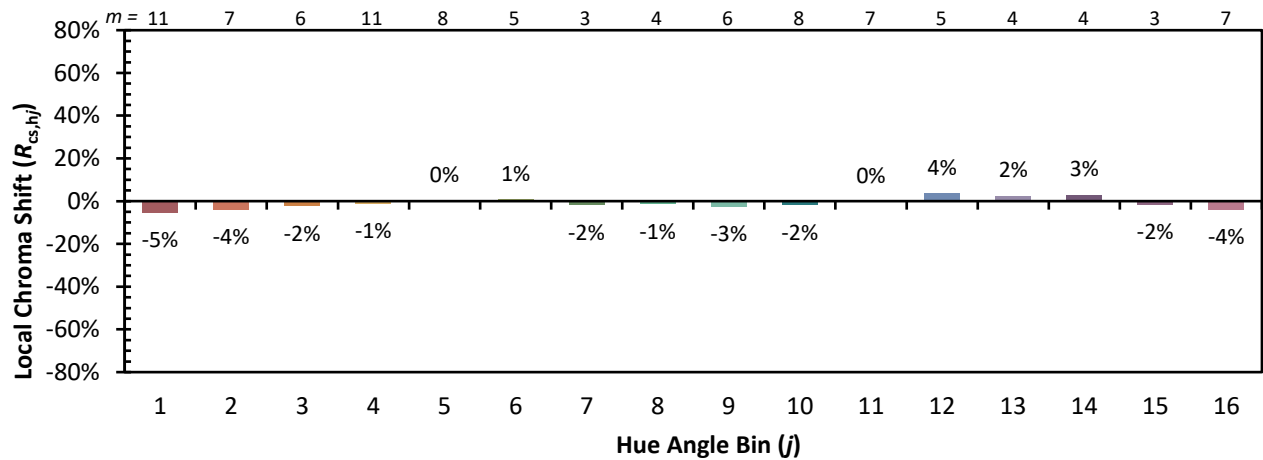


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

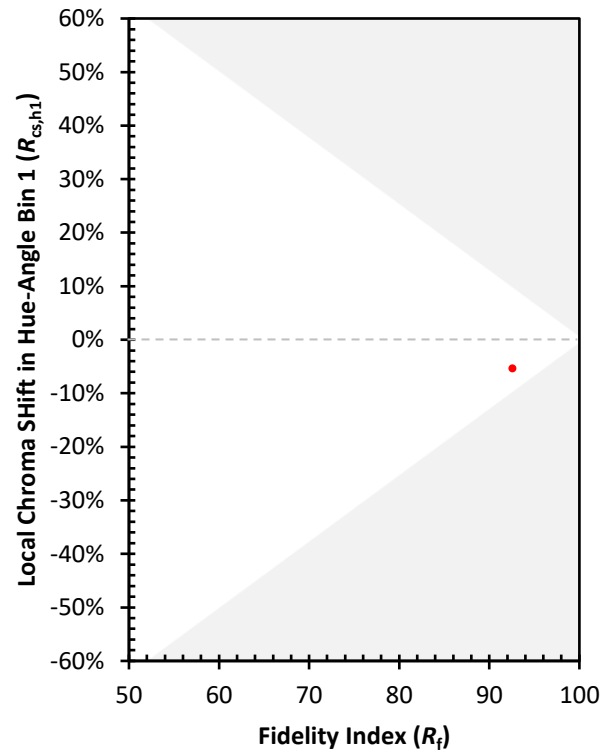
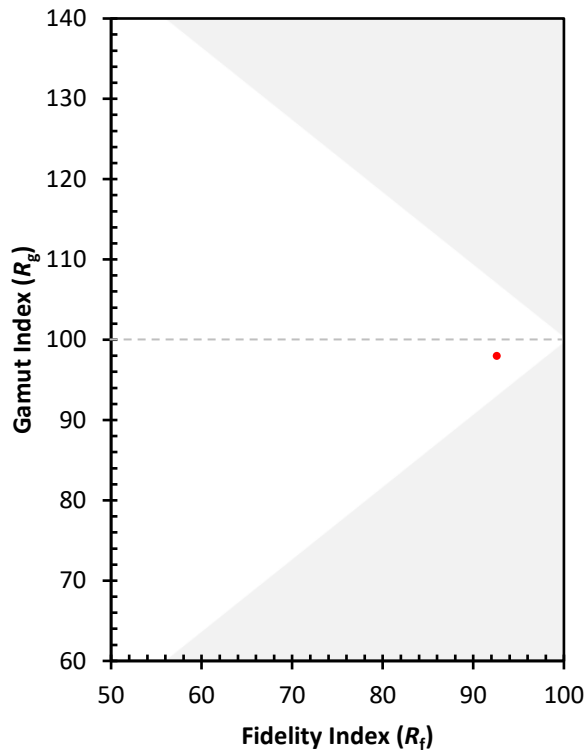
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 94 | CES51 = 98 | CES76 = 90 |
| CES02 = 64 | CES27 = 95 | CES52 = 98 | CES77 = 90 |
| CES03 = 32 | CES28 = 97 | CES53 = 96 | CES78 = 89 |
| CES04 = 71 | CES29 = 95 | CES54 = 96 | CES79 = 93 |
| CES05 = 51 | CES30 = 98 | CES55 = 95 | CES80 = 94 |
| CES06 = 52 | CES31 = 96 | CES56 = 94 | CES81 = 82 |
| CES07 = 44 | CES32 = 91 | CES57 = 94 | CES82 = 97 |
| CES08 = 43 | CES33 = 97 | CES58 = 94 | CES83 = 96 |
| CES09 = 29 | CES34 = 96 | CES59 = 96 | CES84 = 96 |
| CES10 = 77 | CES35 = 98 | CES60 = 96 | CES85 = 85 |
| CES11 = 59 | CES36 = 90 | CES61 = 94 | CES86 = 82 |
| CES12 = 66 | CES37 = 95 | CES62 = 95 | CES87 = 93 |
| CES13 = 44 | CES38 = 96 | CES63 = 94 | CES88 = 95 |
| CES14 = 74 | CES39 = 99 | CES64 = 92 | CES89 = 85 |
| CES15 = 72 | CES40 = 98 | CES65 = 89 | CES90 = 96 |
| CES16 = 48 | CES41 = 98 | CES66 = 91 | CES91 = 85 |
| CES17 = 50 | CES42 = 97 | CES67 = 90 | CES92 = 82 |
| CES18 = 57 | CES43 = 97 | CES68 = 91 | CES93 = 89 |
| CES19 = 72 | CES44 = 99 | CES69 = 93 | CES94 = 79 |
| CES20 = 68 | CES45 = 99 | CES70 = 90 | CES95 = 87 |
| CES21 = 87 | CES46 = 96 | CES71 = 89 | CES96 = 92 |
| CES22 = 79 | CES47 = 94 | CES72 = 96 | CES97 = 96 |
| CES23 = 92 | CES48 = 93 | CES73 = 87 | CES98 = 93 |
| CES24 = 91 | CES49 = 96 | CES74 = 92 | CES99 = 90 |
| CES25 = 72 | CES50 = 98 | CES75 = 90 |            |



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)