

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: P1049715

Luminaire Tested: **GALN-SA1C-827-U-LBC**

Issue Date: 07/10/2025



**Test Information**

Test Method: LM-79-08  
Report Number: P1049715  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/10/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1C-827-U-LBC  
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 1xLight Square PACKAGE  
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (14) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

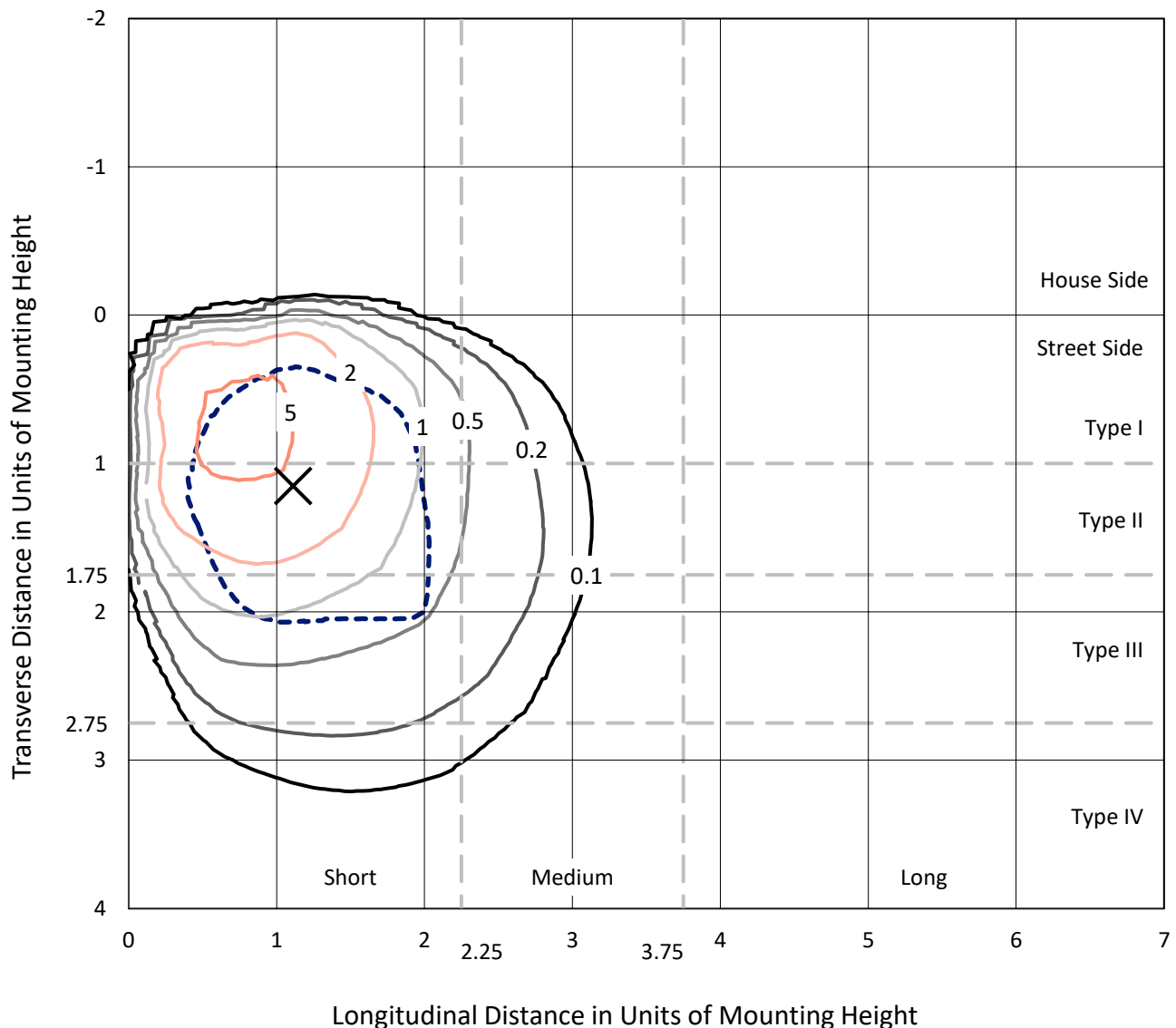
Lumens per Lamp: N/A  
Luminaire Lumens: 4464 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G1

Input Watts (W): 50.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

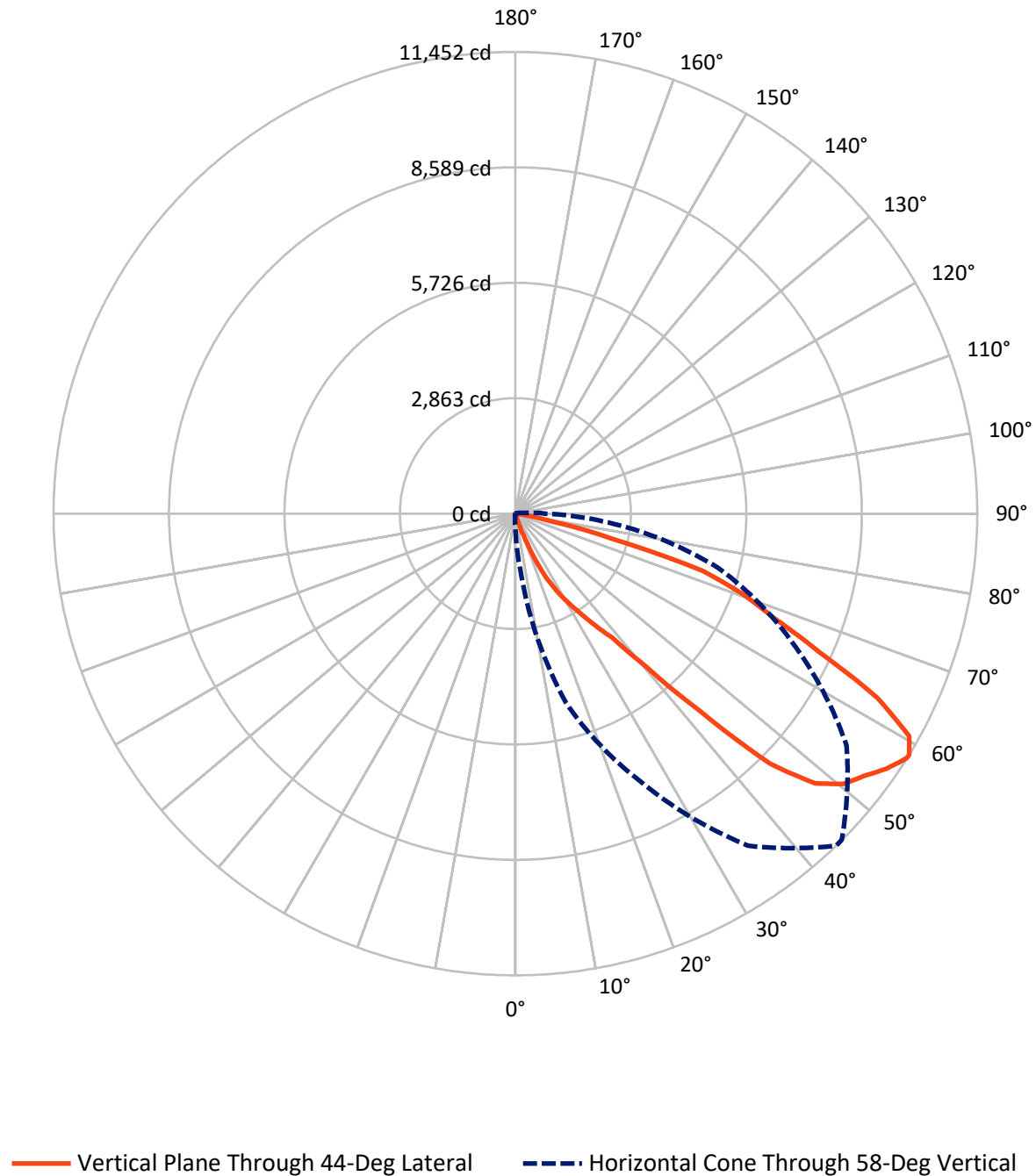
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.8 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 30.5     | 0.0    | 30.5   |
|                    | % Fixture | 0.7      | 0.0    | 0.7    |
| <b>Street Side</b> | Lumens    | 4433.5   | 0.0    | 4433.5 |
|                    | % Fixture | 99.3     | 0.0    | 99.3   |
| <b>Total</b>       | Lumens    | 4464.0   | 0.0    | 4464.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.7    | 0.0       |
| 10°-20°   | 9.8    | 0.2       |
| 20°-30°   | 105.8  | 2.4       |
| 30°-40°   | 312.7  | 7.0       |
| 40°-50°   | 932.1  | 20.9      |
| 50°-60°   | 1479.1 | 33.1      |
| 60°-70°   | 1233.7 | 27.6      |
| 70°-80°   | 380.5  | 8.5       |
| 80°-90°   | 8.5    | 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°    | 4464.0 | 100.0     |
| 0°-180°   | 4464.0 | 100.0     |



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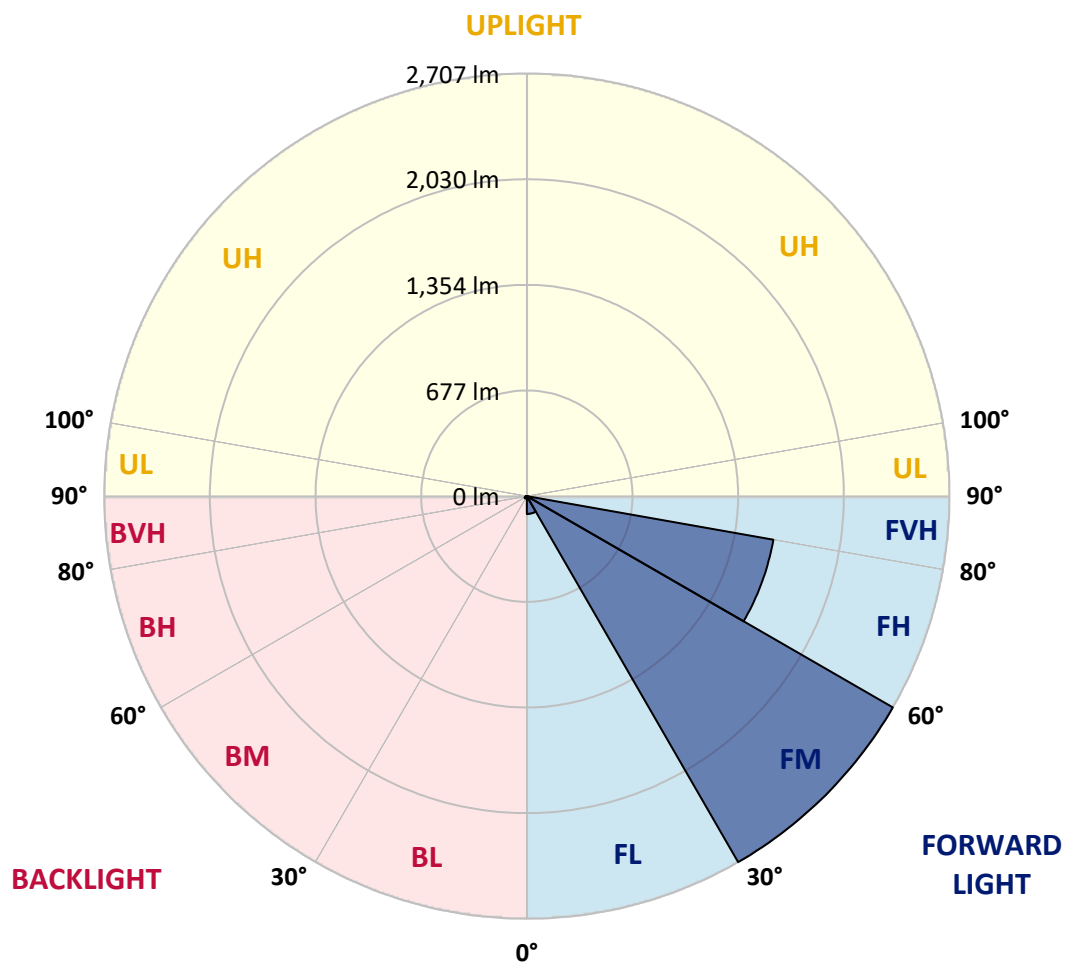
CATALOG NUMBER: GALN-SA1C-827-U-LBC

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 114.3  | 2.6       |                         |      |         |
| FM   | (30°-60°)   | 2707.3 | 60.6      |                         |      |         |
| FH   | (60°-80°)   | 1603.8 | 35.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 8.0    | 0.2       |                         |      | G0/10   |
| BL   | (0°-30°)    | 3.0    | 0.1       | B0/110                  |      |         |
| BM   | (30°-60°)   | 16.7   | 0.4       | B0/220                  |      |         |
| BH   | (60°-80°)   | 10.4   | 0.2       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.4    | 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°    | 19.6  | 19.6   | 19.6   | 19.6   | 19.6    | 19.6    | 19.6    | 19.6    | 19.6   | 19.6   |
| 2.5°  | 25.3  | 25.3   | 24.3   | 22.9   | 21.6    | 20.2    | 19.9    | 19.2    | 18.9   | 18.5   |
| 5°    | 26.3  | 26.3   | 26.0   | 25.0   | 23.6    | 22.6    | 22.6    | 21.6    | 20.9   | 20.2   |
| 7.5°  | 27.0  | 27.3   | 28.0   | 27.7   | 27.0    | 26.0    | 26.0    | 25.3    | 24.3   | 22.6   |
| 10°   | 28.0  | 29.0   | 30.3   | 31.0   | 31.4    | 31.4    | 31.0    | 30.7    | 29.0   | 26.6   |
| 12.5° | 29.0  | 31.0   | 34.4   | 37.8   | 39.8    | 42.5    | 42.2    | 41.5    | 37.1   | 32.0   |
| 15°   | 31.0  | 34.1   | 41.1   | 50.9   | 66.1    | 75.5    | 79.2    | 75.9    | 61.4   | 43.2   |
| 17.5° | 33.4  | 38.4   | 59.7   | 106.6  | 174.7   | 207.0   | 226.6   | 210.8   | 139.6  | 81.9   |
| 20°   | 35.7  | 46.9   | 110.9  | 276.2  | 453.2   | 559.1   | 588.4   | 542.6   | 348.3  | 156.1  |
| 22.5° | 39.8  | 65.8   | 224.9  | 570.9  | 976.6   | 1135.4  | 1165.4  | 1018.7  | 657.9  | 308.2  |
| 25°   | 48.2  | 95.4   | 387.8  | 930.4  | 1457.4  | 1725.5  | 1713.1  | 1520.8  | 1067.3 | 492.3  |
| 27.5° | 60.4  | 138.9  | 586.4  | 1321.9 | 1918.1  | 2154.5  | 2182.8  | 1945.1  | 1422.7 | 724.0  |
| 30°   | 77.9  | 192.5  | 799.5  | 1635.5 | 2287.3  | 2542.9  | 2547.7  | 2301.8  | 1740.7 | 927.3  |
| 32.5° | 94.8  | 243.1  | 986.0  | 1938.6 | 2651.2  | 2931.4  | 2952.3  | 2649.8  | 1978.1 | 1139.1 |
| 35°   | 107.6 | 276.2  | 1174.9 | 2205.0 | 3018.1  | 3404.2  | 3402.8  | 3043.7  | 2259.3 | 1328.3 |
| 37.5° | 108.6 | 309.2  | 1345.8 | 2477.5 | 3482.8  | 3915.1  | 3957.9  | 3562.0  | 2599.3 | 1562.3 |
| 40°   | 106.2 | 346.3  | 1562.3 | 2902.4 | 4320.1  | 4983.4  | 5021.1  | 4522.1  | 3281.1 | 1962.9 |
| 42.5° | 108.9 | 410.7  | 1913.7 | 3687.1 | 5710.4  | 6663.0  | 6735.9  | 6211.2  | 4534.5 | 2780.3 |
| 45°   | 123.1 | 531.8  | 2649.8 | 4999.9 | 7692.2  | 8853.6  | 8829.3  | 8073.6  | 5993.0 | 4024.7 |
| 47.5° | 170.0 | 828.2  | 3741.1 | 6277.6 | 8958.8  | 9993.0  | 10013.9 | 9090.3  | 6844.1 | 4981.3 |
| 50°   | 261.3 | 1267.3 | 4657.9 | 6953.0 | 9503.4  | 10541.0 | 10521.4 | 9454.2  | 7167.5 | 5452.4 |
| 52.5° | 339.9 | 1584.9 | 5117.9 | 7190.1 | 9573.2  | 10811.8 | 10810.4 | 9549.9  | 7217.7 | 5492.9 |
| 55°   | 359.5 | 1608.9 | 5121.6 | 7202.9 | 9729.7  | 11166.2 | 11210.7 | 9785.6  | 7282.8 | 5316.2 |
| 57.5° | 351.7 | 1424.4 | 4907.8 | 7277.1 | 10008.2 | 11440.4 | 11442.7 | 10013.9 | 7448.1 | 5207.9 |
| 58°   | 345.0 | 1395.4 | 4864.7 | 7319.2 | 10056.1 | 11451.8 | 11446.1 | 10024.4 | 7582.6 | 5203.9 |
| 60°   | 307.2 | 1211.6 | 4696.4 | 7426.8 | 9984.9  | 11216.4 | 11162.8 | 9796.1  | 7562.7 | 5162.4 |
| 62.5° | 241.4 | 945.2  | 4530.8 | 7302.4 | 9222.2  | 10077.0 | 10099.2 | 8672.8  | 6894.4 | 4920.6 |
| 65°   | 192.2 | 704.4  | 4185.5 | 6405.4 | 7594.1  | 8275.3  | 8358.2  | 7052.5  | 5754.6 | 4166.6 |
| 67.5° | 153.1 | 509.2  | 3511.1 | 5099.7 | 6009.2  | 6906.5  | 6966.9  | 5921.2  | 4458.3 | 3192.4 |
| 70°   | 124.4 | 344.3  | 2423.6 | 3729.6 | 4956.4  | 5965.3  | 5969.0  | 4919.0  | 3327.6 | 2091.7 |
| 72.5° | 110.3 | 238.4  | 1406.9 | 2720.0 | 4018.9  | 4861.0  | 4762.8  | 3991.6  | 2557.4 | 1238.9 |
| 75°   | 95.4  | 158.2  | 689.9  | 1662.8 | 2436.7  | 2453.2  | 2490.7  | 1851.6  | 1278.4 | 589.1  |
| 77.5° | 78.6  | 112.3  | 271.8  | 454.2  | 730.7   | 935.4   | 970.2   | 735.1   | 425.2  | 145.0  |
| 80°   | 54.0  | 53.3   | 73.2   | 139.3  | 209.1   | 262.0   | 244.5   | 189.2   | 111.3  | 55.6   |
| 82.5° | 23.3  | 25.3   | 33.0   | 39.8   | 32.4    | 31.4    | 30.0    | 19.2    | 14.8   | 11.5   |
| 85°   | 7.4   | 6.7    | 7.1    | 7.1    | 5.7     | 4.4     | 4.4     | 2.0     | 0.0    | 0.0    |
| 87.5° | 3.7   | 3.0    | 3.0    | 2.7    | 1.7     | 0.7     | 0.3     | 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° |
|--------|-------|--------|-------|------|------|------|------|------|------|------|------|
| 19.6   | 0°    | 19.6   | 19.6  | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 |
| 18.2   | 2.5°  | 17.9   | 17.9  | 17.2 | 16.5 | 16.2 | 15.5 | 15.2 | 14.8 | 14.5 | 14.2 |
| 19.6   | 5°    | 18.9   | 18.5  | 17.5 | 16.5 | 15.5 | 14.5 | 13.8 | 13.2 | 12.5 | 12.1 |
| 21.6   | 7.5°  | 20.6   | 19.9  | 17.9 | 16.2 | 14.8 | 13.5 | 12.8 | 11.8 | 11.1 | 10.1 |
| 23.9   | 10°   | 22.6   | 21.2  | 18.5 | 16.5 | 14.5 | 12.8 | 11.8 | 10.8 | 9.8  | 8.4  |
| 27.3   | 12.5° | 25.3   | 22.9  | 19.6 | 16.2 | 13.8 | 11.8 | 10.8 | 9.4  | 8.4  | 7.4  |
| 31.7   | 15°   | 27.7   | 24.6  | 19.9 | 16.2 | 13.2 | 10.8 | 9.4  | 8.1  | 7.1  | 5.7  |
| 39.8   | 17.5° | 31.0   | 26.0  | 19.6 | 15.2 | 12.1 | 9.4  | 8.1  | 7.1  | 5.4  | 3.4  |
| 59.0   | 20°   | 36.8   | 27.0  | 18.9 | 14.2 | 10.5 | 7.8  | 6.1  | 4.7  | 2.4  | 0.7  |
| 88.7   | 22.5° | 45.9   | 29.7  | 18.2 | 12.8 | 9.1  | 6.1  | 4.0  | 1.7  | 0.0  | 0.0  |
| 134.9  | 25°   | 63.4   | 34.4  | 18.2 | 12.1 | 8.1  | 4.4  | 1.3  | 0.0  | 0.0  | 0.0  |
| 191.5  | 27.5° | 84.3   | 40.8  | 18.2 | 10.5 | 6.4  | 2.4  | 0.0  | 0.0  | 0.0  | 0.0  |
| 261.0  | 30°   | 105.5  | 47.9  | 18.2 | 9.1  | 5.1  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  |
| 321.4  | 32.5° | 125.8  | 54.0  | 18.5 | 7.8  | 3.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 405.0  | 35°   | 146.4  | 55.0  | 18.2 | 6.7  | 2.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 507.5  | 37.5° | 172.7  | 52.9  | 17.2 | 6.1  | 1.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 667.7  | 40°   | 212.4  | 54.0  | 16.2 | 5.7  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 953.3  | 42.5° | 286.0  | 58.3  | 14.8 | 5.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1518.5 | 45°   | 494.4  | 78.2  | 13.5 | 6.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2279.6 | 47.5° | 817.7  | 140.6 | 13.2 | 6.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2745.9 | 50°   | 1043.7 | 177.0 | 13.8 | 6.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2804.3 | 52.5° | 1042.0 | 197.3 | 14.5 | 6.7  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2584.8 | 55°   | 926.3  | 201.0 | 15.5 | 7.4  | 4.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2221.2 | 57.5° | 774.2  | 183.4 | 17.9 | 9.1  | 8.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2164.2 | 58°   | 747.3  | 175.4 | 18.5 | 9.4  | 8.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1877.3 | 60°   | 612.4  | 143.0 | 23.6 | 11.8 | 11.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1539.0 | 62.5° | 422.9  | 124.8 | 27.0 | 15.2 | 12.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1134.7 | 65°   | 299.1  | 112.6 | 29.3 | 16.2 | 9.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 806.3  | 67.5° | 223.6  | 103.9 | 32.4 | 16.5 | 5.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 505.8  | 70°   | 171.3  | 97.5  | 39.8 | 17.5 | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 301.5  | 72.5° | 139.6  | 90.0  | 48.2 | 18.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180.7  | 75°   | 115.7  | 81.3  | 46.5 | 19.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 96.4   | 77.5° | 76.9   | 63.1  | 42.5 | 19.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 34.4   | 80°   | 27.0   | 25.0  | 33.0 | 17.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 7.1    | 82.5° | 4.0    | 3.4   | 4.7  | 6.1  | 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° |
|------|-------|------|------|------|------|------|------|------|------|------|------|
| 19.6 | 0°    | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 |
| 13.8 | 2.5°  | 13.8 | 13.8 | 13.5 | 13.8 | 13.8 | 14.5 | 16.2 | 18.5 | 21.2 | 22.3 |
| 11.8 | 5°    | 11.5 | 11.1 | 10.8 | 10.8 | 10.8 | 11.8 | 13.2 | 15.8 | 18.9 | 20.2 |
| 9.8  | 7.5°  | 9.4  | 9.1  | 8.8  | 8.4  | 8.4  | 9.1  | 10.8 | 13.8 | 16.9 | 18.2 |
| 8.1  | 10°   | 7.8  | 7.1  | 6.7  | 6.4  | 6.4  | 7.1  | 8.8  | 11.8 | 15.2 | 16.5 |
| 6.7  | 12.5° | 6.4  | 5.4  | 4.7  | 4.4  | 4.0  | 5.1  | 6.7  | 9.4  | 13.2 | 14.8 |
| 5.1  | 15°   | 4.4  | 3.4  | 2.4  | 2.0  | 1.7  | 2.7  | 4.4  | 7.4  | 11.1 | 13.2 |
| 2.7  | 17.5° | 2.4  | 1.0  | 0.3  | 0.0  | 0.0  | 0.7  | 2.0  | 5.4  | 9.1  | 10.8 |
| 0.0  | 20°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.7  | 6.7  | 8.4  |
| 0.0  | 22.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 4.0  | 5.7  |
| 0.0  | 25°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  | 3.0  |
| 0.0  | 27.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.7  |
| 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  | 1.0  |
| 0.0  | 87.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.3  | 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  |

REPORT NUMBER: P1049715

CATALOG NUMBER: GALN-SA1C-827-U-LBC

**CANDELA DISTRIBUTION (continued):**

| 275° |       | 285° | 295° | 305° | 315° | 316° | 325° | 335° | 345° | 355° | 360°  |
|------|-------|------|------|------|------|------|------|------|------|------|-------|
| 19.6 | 0°    | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6  |
| 23.3 | 2.5°  | 23.9 | 23.6 | 22.9 | 22.3 | 22.3 | 22.3 | 23.3 | 24.3 | 25.3 | 25.3  |
| 20.9 | 5°    | 22.3 | 22.3 | 21.9 | 21.2 | 21.2 | 21.6 | 22.9 | 24.6 | 26.0 | 26.3  |
| 19.2 | 7.5°  | 20.6 | 21.2 | 20.6 | 20.2 | 20.6 | 20.9 | 22.3 | 24.3 | 26.3 | 27.0  |
| 17.9 | 10°   | 19.6 | 19.9 | 19.9 | 19.6 | 19.6 | 20.2 | 21.6 | 24.3 | 27.0 | 28.0  |
| 16.2 | 12.5° | 18.2 | 18.9 | 18.5 | 18.5 | 18.5 | 19.2 | 20.9 | 23.9 | 27.7 | 29.0  |
| 14.5 | 15°   | 16.9 | 17.9 | 17.9 | 17.5 | 17.5 | 17.9 | 20.2 | 23.6 | 28.7 | 31.0  |
| 12.5 | 17.5° | 15.5 | 16.5 | 16.9 | 16.2 | 16.2 | 16.9 | 19.2 | 23.6 | 29.3 | 33.4  |
| 10.1 | 20°   | 12.8 | 14.5 | 15.5 | 14.5 | 14.5 | 15.2 | 17.5 | 22.3 | 29.7 | 35.7  |
| 7.4  | 22.5° | 10.1 | 11.8 | 13.2 | 12.8 | 12.8 | 13.2 | 16.2 | 21.2 | 30.0 | 39.8  |
| 4.4  | 25°   | 7.4  | 9.1  | 10.1 | 10.8 | 10.8 | 11.8 | 14.8 | 20.6 | 31.4 | 48.2  |
| 2.0  | 27.5° | 4.4  | 6.4  | 7.8  | 8.4  | 8.8  | 10.1 | 13.8 | 19.9 | 33.7 | 60.4  |
| 0.0  | 30°   | 2.0  | 3.7  | 5.4  | 6.7  | 6.7  | 9.1  | 12.8 | 19.2 | 36.8 | 77.9  |
| 0.0  | 32.5° | 0.0  | 1.7  | 2.7  | 4.7  | 5.1  | 7.4  | 11.8 | 18.5 | 41.1 | 94.8  |
| 0.0  | 35°   | 0.0  | 0.0  | 1.3  | 3.7  | 3.7  | 6.1  | 10.8 | 17.9 | 47.9 | 107.6 |
| 0.0  | 37.5° | 0.0  | 0.0  | 0.0  | 2.7  | 3.0  | 5.4  | 10.5 | 17.5 | 49.2 | 108.6 |
| 0.0  | 40°   | 0.0  | 0.0  | 0.0  | 2.0  | 2.4  | 5.1  | 10.5 | 17.9 | 44.5 | 106.2 |
| 0.0  | 42.5° | 0.0  | 0.0  | 0.0  | 1.3  | 1.7  | 5.1  | 10.5 | 18.5 | 40.1 | 108.9 |
| 0.0  | 45°   | 0.0  | 0.0  | 0.0  | 1.0  | 1.3  | 5.4  | 10.1 | 18.2 | 37.8 | 123.1 |
| 0.0  | 47.5° | 0.0  | 0.0  | 0.0  | 1.3  | 2.0  | 5.4  | 9.8  | 17.9 | 38.1 | 170.0 |
| 0.0  | 50°   | 0.0  | 0.0  | 0.0  | 1.7  | 2.4  | 5.4  | 10.1 | 17.2 | 41.8 | 261.3 |
| 0.0  | 52.5° | 0.0  | 0.0  | 0.0  | 1.3  | 2.0  | 6.1  | 11.1 | 16.9 | 45.5 | 339.9 |
| 0.0  | 55°   | 0.0  | 0.0  | 0.0  | 0.3  | 1.0  | 7.8  | 12.1 | 16.9 | 51.3 | 359.5 |
| 0.0  | 57.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.8  | 13.8 | 17.9 | 60.7 | 351.7 |
| 0.0  | 58°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.8  | 14.2 | 17.9 | 61.4 | 345.0 |
| 0.0  | 60°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.8  | 15.5 | 19.9 | 66.1 | 307.2 |
| 0.0  | 62.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.4  | 18.5 | 25.0 | 68.8 | 241.4 |
| 0.0  | 65°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.1  | 21.9 | 27.3 | 70.8 | 192.2 |
| 0.0  | 67.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.7  | 22.6 | 27.7 | 71.8 | 153.1 |
| 0.0  | 70°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.1  | 22.3 | 29.7 | 75.2 | 124.4 |
| 0.0  | 72.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.7  | 20.2 | 32.7 | 75.2 | 110.3 |
| 0.0  | 75°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.1  | 18.9 | 36.8 | 68.5 | 95.4  |
| 0.0  | 77.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.7  | 18.5 | 42.8 | 61.0 | 78.6  |
| 0.0  | 80°   | 0.7  | 1.0  | 1.0  | 0.7  | 0.7  | 5.7  | 18.2 | 43.5 | 51.9 | 54.0  |
| 0.3  | 82.5° | 2.0  | 2.7  | 2.4  | 1.7  | 1.7  | 5.1  | 16.2 | 36.4 | 27.0 | 23.3  |
| 2.0  | 85°   | 3.7  | 4.4  | 4.4  | 3.7  | 3.7  | 4.7  | 10.1 | 13.2 | 9.1  | 7.4   |
| 3.7  | 87.5° | 5.1  | 5.7  | 5.7  | 5.1  | 5.1  | 4.7  | 4.4  | 4.0  | 3.7  | 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   |

(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: SP1-2407-184-8

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-827-U-5WQ

Data in this report applies to families of products including GSS-SB1A-827-U-5WQ

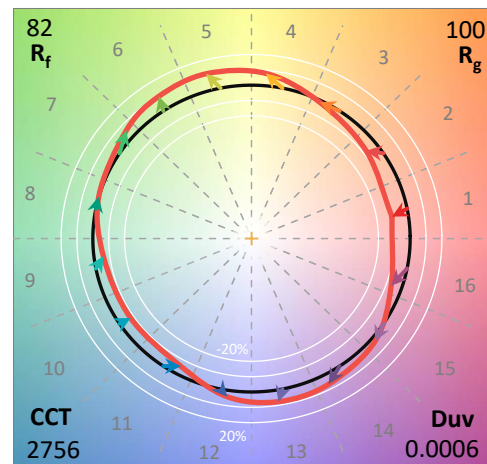
### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2407-184-8  
 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-827-U-5WQ**  
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI  
 2700K CCT 26 LEDS

### Spectral Parameters

CCT (K): 2756  
 CIE  $u'$ : 0.2599  
 CIE  $v'$ : 0.5271  
 Duv: 0.0006  
 CIE x: 0.4563  
 CIE y: 0.4112  
 CIE z: 0.1325  
 Peak Wavelength (nm): 609  
 Dominant Wavelength (nm): 583  
 Purity: 60.41121  
 R<sub>f</sub>: 82.2  
 R<sub>g</sub>: 99.9

CRI (Ra): 82.9  
 R1: 81.6  
 R2: 88.8  
 R3: 96.0  
 R4: 83.4  
 R5: 81.4  
 R6: 87.0  
 R7: 84.0  
 R8: 60.8  
 R9: 10.8  
 R10: 74.8  
 R11: 84.3  
 R12: 72.1  
 R13: 82.9  
 R14: 97.3  
 R15: 73.7



### Test Conditions

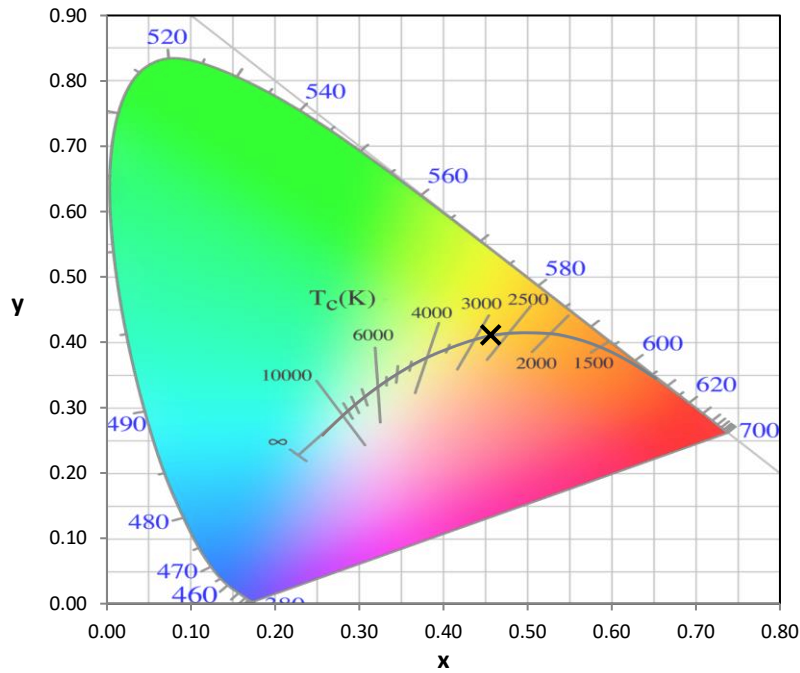
Stabilization Time: 29M  
 Operation Time: 1H 29M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-8

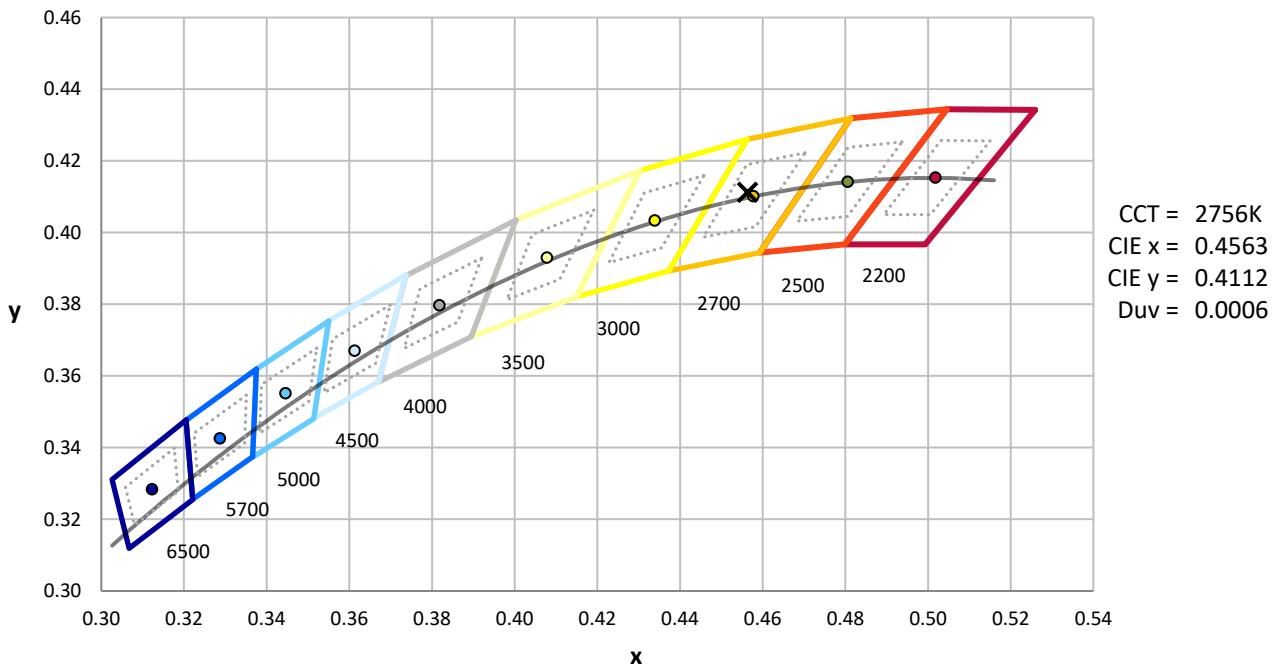
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| 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: SP1-2407-184-8

**CIE 1931 Chromaticity Diagram**



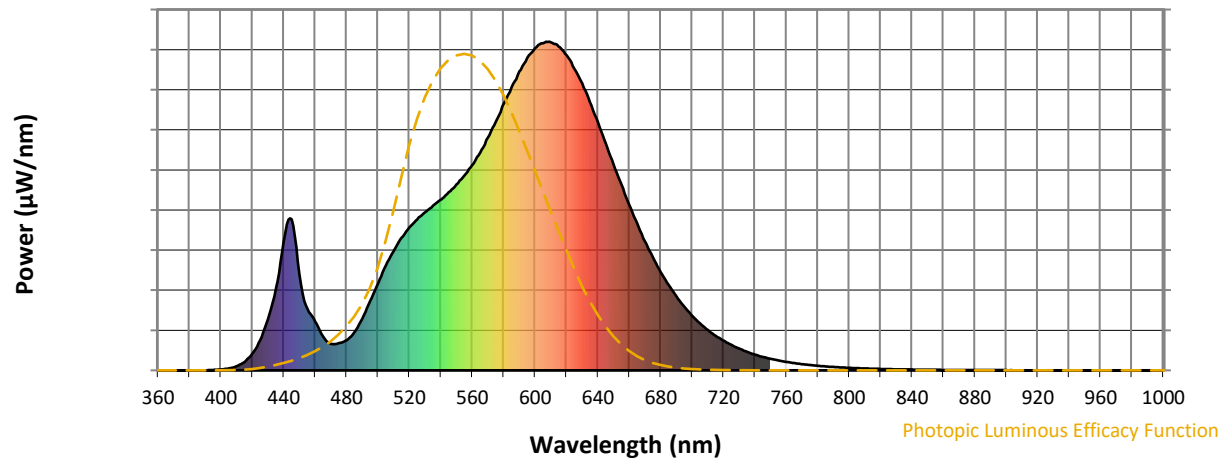
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-8

### Photopic Flux vs. Wavelength

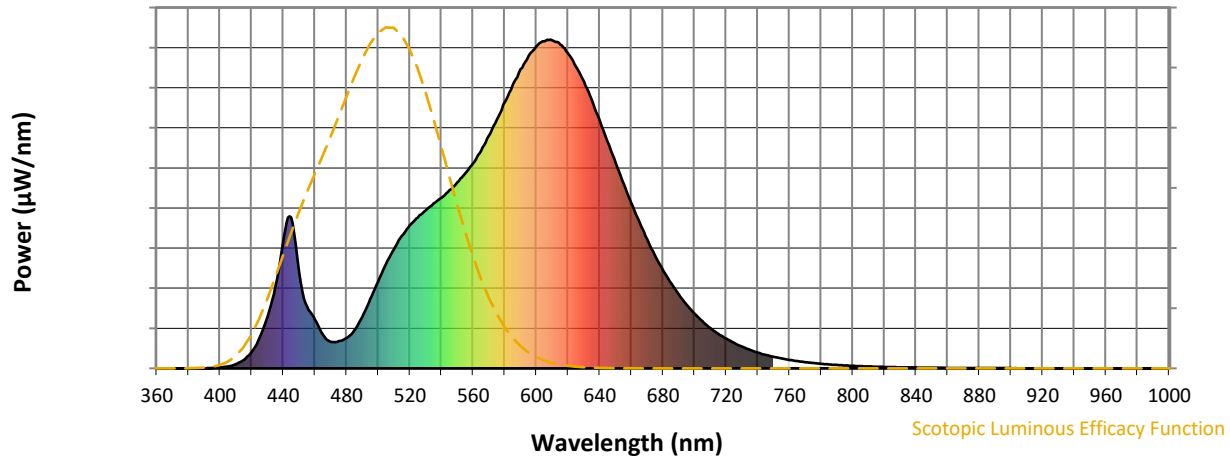


### Photopic Lumens: NR

| $\lambda$<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               | 158                                    | NR                             | 620               | 959                                    | NR                             | 750               | 35                                     | NR                             | 880               | 1                                      | NR                             |
| 365               | 0                                      | NR                             | 495               | 211                                    | NR                             | 625               | 918                                    | NR                             | 755               | 30                                     | NR                             | 885               | 1                                      | NR                             |
| 370               | 0                                      | NR                             | 500               | 264                                    | NR                             | 630               | 873                                    | NR                             | 760               | 26                                     | NR                             | 890               | 1                                      | NR                             |
| 375               | 0                                      | NR                             | 505               | 318                                    | NR                             | 635               | 816                                    | NR                             | 765               | 22                                     | NR                             | 895               | 1                                      | NR                             |
| 380               | 0                                      | NR                             | 510               | 363                                    | NR                             | 640               | 755                                    | NR                             | 770               | 19                                     | NR                             | 900               | 1                                      | NR                             |
| 385               | 0                                      | NR                             | 515               | 403                                    | NR                             | 645               | 689                                    | NR                             | 775               | 16                                     | NR                             | 905               | 1                                      | NR                             |
| 390               | 0                                      | NR                             | 520               | 435                                    | NR                             | 650               | 626                                    | NR                             | 780               | 14                                     | NR                             | 910               | 0                                      | NR                             |
| 395               | 1                                      | NR                             | 525               | 459                                    | NR                             | 655               | 564                                    | NR                             | 785               | 12                                     | NR                             | 915               | 0                                      | NR                             |
| 400               | 3                                      | NR                             | 530               | 481                                    | NR                             | 660               | 503                                    | NR                             | 790               | 10                                     | NR                             | 920               | 0                                      | NR                             |
| 405               | 6                                      | NR                             | 535               | 501                                    | NR                             | 665               | 447                                    | NR                             | 795               | 9                                      | NR                             | 925               | 0                                      | NR                             |
| 410               | 13                                     | NR                             | 540               | 519                                    | NR                             | 670               | 392                                    | NR                             | 800               | 8                                      | NR                             | 930               | 0                                      | NR                             |
| 415               | 26                                     | NR                             | 545               | 542                                    | NR                             | 675               | 343                                    | NR                             | 805               | 7                                      | NR                             | 935               | 0                                      | NR                             |
| 420               | 51                                     | NR                             | 550               | 565                                    | NR                             | 680               | 299                                    | NR                             | 810               | 6                                      | NR                             | 940               | 0                                      | NR                             |
| 425               | 93                                     | NR                             | 555               | 593                                    | NR                             | 685               | 260                                    | NR                             | 815               | 5                                      | NR                             | 945               | 0                                      | NR                             |
| 430               | 156                                    | NR                             | 560               | 624                                    | NR                             | 690               | 225                                    | NR                             | 820               | 4                                      | NR                             | 950               | 0                                      | NR                             |
| 435               | 250                                    | NR                             | 565               | 662                                    | NR                             | 695               | 194                                    | NR                             | 825               | 4                                      | NR                             | 955               | 0                                      | NR                             |
| 440               | 391                                    | NR                             | 570               | 707                                    | NR                             | 700               | 166                                    | NR                             | 830               | 3                                      | NR                             | 960               | 0                                      | NR                             |
| 445               | 460                                    | NR                             | 575               | 756                                    | NR                             | 705               | 143                                    | NR                             | 835               | 3                                      | NR                             | 965               | 0                                      | NR                             |
| 450               | 293                                    | NR                             | 580               | 810                                    | NR                             | 710               | 122                                    | NR                             | 840               | 2                                      | NR                             | 970               | 0                                      | NR                             |
| 455               | 188                                    | NR                             | 585               | 860                                    | NR                             | 715               | 105                                    | NR                             | 845               | 2                                      | NR                             | 975               | 0                                      | NR                             |
| 460               | 149                                    | NR                             | 590               | 910                                    | NR                             | 720               | 90                                     | NR                             | 850               | 2                                      | NR                             | 980               | 0                                      | NR                             |
| 465               | 103                                    | NR                             | 595               | 950                                    | NR                             | 725               | 77                                     | NR                             | 855               | 2                                      | NR                             | 985               | 0                                      | NR                             |
| 470               | 80                                     | NR                             | 600               | 980                                    | NR                             | 730               | 66                                     | NR                             | 860               | 1                                      | NR                             | 990               | 0                                      | NR                             |
| 475               | 82                                     | NR                             | 605               | 995                                    | NR                             | 735               | 56                                     | NR                             | 865               | 1                                      | NR                             | 995               | 0                                      | NR                             |
| 480               | 92                                     | NR                             | 610               | 998                                    | NR                             | 740               | 48                                     | NR                             | 870               | 1                                      | NR                             | 1000              | 0                                      | NR                             |
| 485               | 116                                    | NR                             | 615               | 985                                    | NR                             | 745               | 41                                     | NR                             | 875               | 1                                      | NR                             |                   |                                        |                                |

REPORT NUMBER: SP1-2407-184-8

### Scotopic Flux vs. Wavelength



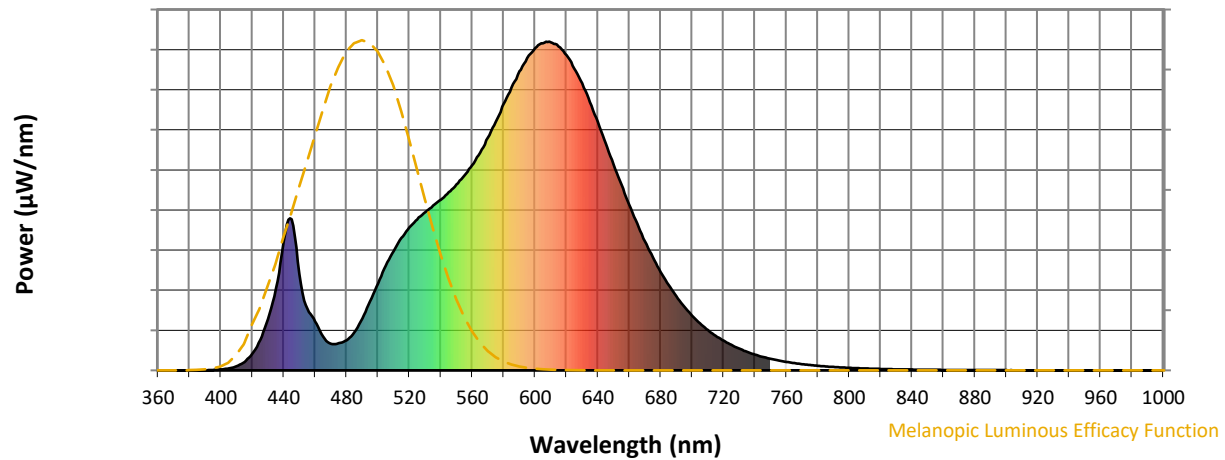
Scotopic Lumens: NR

S/P: 1.2

| λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(φ/nm) |
|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|
| 360       | 0                           | NR               | 490       | 158                         | NR               | 620       | 959                         | NR               | 750       | 35                          | NR               | 880       | 1                           | NR               |
| 365       | 0                           | NR               | 495       | 211                         | NR               | 625       | 918                         | NR               | 755       | 30                          | NR               | 885       | 1                           | NR               |
| 370       | 0                           | NR               | 500       | 264                         | NR               | 630       | 873                         | NR               | 760       | 26                          | NR               | 890       | 1                           | NR               |
| 375       | 0                           | NR               | 505       | 318                         | NR               | 635       | 816                         | NR               | 765       | 22                          | NR               | 895       | 1                           | NR               |
| 380       | 0                           | NR               | 510       | 363                         | NR               | 640       | 755                         | NR               | 770       | 19                          | NR               | 900       | 1                           | NR               |
| 385       | 0                           | NR               | 515       | 403                         | NR               | 645       | 689                         | NR               | 775       | 16                          | NR               | 905       | 1                           | NR               |
| 390       | 0                           | NR               | 520       | 435                         | NR               | 650       | 626                         | NR               | 780       | 14                          | NR               | 910       | 0                           | NR               |
| 395       | 1                           | NR               | 525       | 459                         | NR               | 655       | 564                         | NR               | 785       | 12                          | NR               | 915       | 0                           | NR               |
| 400       | 3                           | NR               | 530       | 481                         | NR               | 660       | 503                         | NR               | 790       | 10                          | NR               | 920       | 0                           | NR               |
| 405       | 6                           | NR               | 535       | 501                         | NR               | 665       | 447                         | NR               | 795       | 9                           | NR               | 925       | 0                           | NR               |
| 410       | 13                          | NR               | 540       | 519                         | NR               | 670       | 392                         | NR               | 800       | 8                           | NR               | 930       | 0                           | NR               |
| 415       | 26                          | NR               | 545       | 542                         | NR               | 675       | 343                         | NR               | 805       | 7                           | NR               | 935       | 0                           | NR               |
| 420       | 51                          | NR               | 550       | 565                         | NR               | 680       | 299                         | NR               | 810       | 6                           | NR               | 940       | 0                           | NR               |
| 425       | 93                          | NR               | 555       | 593                         | NR               | 685       | 260                         | NR               | 815       | 5                           | NR               | 945       | 0                           | NR               |
| 430       | 156                         | NR               | 560       | 624                         | NR               | 690       | 225                         | NR               | 820       | 4                           | NR               | 950       | 0                           | NR               |
| 435       | 250                         | NR               | 565       | 662                         | NR               | 695       | 194                         | NR               | 825       | 4                           | NR               | 955       | 0                           | NR               |
| 440       | 391                         | NR               | 570       | 707                         | NR               | 700       | 166                         | NR               | 830       | 3                           | NR               | 960       | 0                           | NR               |
| 445       | 460                         | NR               | 575       | 756                         | NR               | 705       | 143                         | NR               | 835       | 3                           | NR               | 965       | 0                           | NR               |
| 450       | 293                         | NR               | 580       | 810                         | NR               | 710       | 122                         | NR               | 840       | 2                           | NR               | 970       | 0                           | NR               |
| 455       | 188                         | NR               | 585       | 860                         | NR               | 715       | 105                         | NR               | 845       | 2                           | NR               | 975       | 0                           | NR               |
| 460       | 149                         | NR               | 590       | 910                         | NR               | 720       | 90                          | NR               | 850       | 2                           | NR               | 980       | 0                           | NR               |
| 465       | 103                         | NR               | 595       | 950                         | NR               | 725       | 77                          | NR               | 855       | 2                           | NR               | 985       | 0                           | NR               |
| 470       | 80                          | NR               | 600       | 980                         | NR               | 730       | 66                          | NR               | 860       | 1                           | NR               | 990       | 0                           | NR               |
| 475       | 82                          | NR               | 605       | 995                         | NR               | 735       | 56                          | NR               | 865       | 1                           | NR               | 995       | 0                           | NR               |
| 480       | 92                          | NR               | 610       | 998                         | NR               | 740       | 48                          | NR               | 870       | 1                           | NR               | 1000      | 0                           | NR               |
| 485       | 116                         | NR               | 615       | 985                         | NR               | 745       | 41                          | NR               | 875       | 1                           | NR               |           |                             |                  |

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### Melanopic Flux vs. Wavelength


**Melanopic Lumens: NR**
**M/P: 2.16**

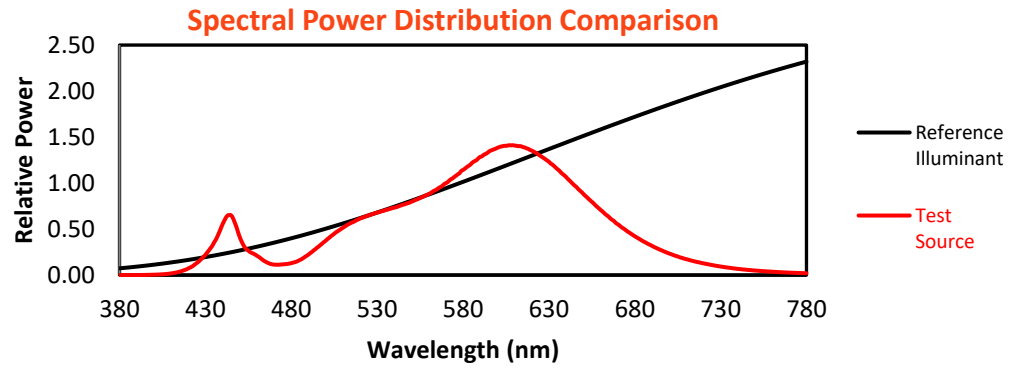
| $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | 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               | 158                                    | NR                             | 620               | 959                                    | NR                             | 750               | 35                                     | NR                             | 880               | 1                                      | NR                             |
| 365               | 0                                      | NR                             | 495               | 211                                    | NR                             | 625               | 918                                    | NR                             | 755               | 30                                     | NR                             | 885               | 1                                      | NR                             |
| 370               | 0                                      | NR                             | 500               | 264                                    | NR                             | 630               | 873                                    | NR                             | 760               | 26                                     | NR                             | 890               | 1                                      | NR                             |
| 375               | 0                                      | NR                             | 505               | 318                                    | NR                             | 635               | 816                                    | NR                             | 765               | 22                                     | NR                             | 895               | 1                                      | NR                             |
| 380               | 0                                      | NR                             | 510               | 363                                    | NR                             | 640               | 755                                    | NR                             | 770               | 19                                     | NR                             | 900               | 1                                      | NR                             |
| 385               | 0                                      | NR                             | 515               | 403                                    | NR                             | 645               | 689                                    | NR                             | 775               | 16                                     | NR                             | 905               | 1                                      | NR                             |
| 390               | 0                                      | NR                             | 520               | 435                                    | NR                             | 650               | 626                                    | NR                             | 780               | 14                                     | NR                             | 910               | 0                                      | NR                             |
| 395               | 1                                      | NR                             | 525               | 459                                    | NR                             | 655               | 564                                    | NR                             | 785               | 12                                     | NR                             | 915               | 0                                      | NR                             |
| 400               | 3                                      | NR                             | 530               | 481                                    | NR                             | 660               | 503                                    | NR                             | 790               | 10                                     | NR                             | 920               | 0                                      | NR                             |
| 405               | 6                                      | NR                             | 535               | 501                                    | NR                             | 665               | 447                                    | NR                             | 795               | 9                                      | NR                             | 925               | 0                                      | NR                             |
| 410               | 13                                     | NR                             | 540               | 519                                    | NR                             | 670               | 392                                    | NR                             | 800               | 8                                      | NR                             | 930               | 0                                      | NR                             |
| 415               | 26                                     | NR                             | 545               | 542                                    | NR                             | 675               | 343                                    | NR                             | 805               | 7                                      | NR                             | 935               | 0                                      | NR                             |
| 420               | 51                                     | NR                             | 550               | 565                                    | NR                             | 680               | 299                                    | NR                             | 810               | 6                                      | NR                             | 940               | 0                                      | NR                             |
| 425               | 93                                     | NR                             | 555               | 593                                    | NR                             | 685               | 260                                    | NR                             | 815               | 5                                      | NR                             | 945               | 0                                      | NR                             |
| 430               | 156                                    | NR                             | 560               | 624                                    | NR                             | 690               | 225                                    | NR                             | 820               | 4                                      | NR                             | 950               | 0                                      | NR                             |
| 435               | 250                                    | NR                             | 565               | 662                                    | NR                             | 695               | 194                                    | NR                             | 825               | 4                                      | NR                             | 955               | 0                                      | NR                             |
| 440               | 391                                    | NR                             | 570               | 707                                    | NR                             | 700               | 166                                    | NR                             | 830               | 3                                      | NR                             | 960               | 0                                      | NR                             |
| 445               | 460                                    | NR                             | 575               | 756                                    | NR                             | 705               | 143                                    | NR                             | 835               | 3                                      | NR                             | 965               | 0                                      | NR                             |
| 450               | 293                                    | NR                             | 580               | 810                                    | NR                             | 710               | 122                                    | NR                             | 840               | 2                                      | NR                             | 970               | 0                                      | NR                             |
| 455               | 188                                    | NR                             | 585               | 860                                    | NR                             | 715               | 105                                    | NR                             | 845               | 2                                      | NR                             | 975               | 0                                      | NR                             |
| 460               | 149                                    | NR                             | 590               | 910                                    | NR                             | 720               | 90                                     | NR                             | 850               | 2                                      | NR                             | 980               | 0                                      | NR                             |
| 465               | 103                                    | NR                             | 595               | 950                                    | NR                             | 725               | 77                                     | NR                             | 855               | 2                                      | NR                             | 985               | 0                                      | NR                             |
| 470               | 80                                     | NR                             | 600               | 980                                    | NR                             | 730               | 66                                     | NR                             | 860               | 1                                      | NR                             | 990               | 0                                      | NR                             |
| 475               | 82                                     | NR                             | 605               | 995                                    | NR                             | 735               | 56                                     | NR                             | 865               | 1                                      | NR                             | 995               | 0                                      | NR                             |
| 480               | 92                                     | NR                             | 610               | 998                                    | NR                             | 740               | 48                                     | NR                             | 870               | 1                                      | NR                             | 1000              | 0                                      | NR                             |
| 485               | 116                                    | NR                             | 615               | 985                                    | NR                             | 745               | 41                                     | NR                             | 875               | 1                                      | NR                             |                   |                                        |                                |

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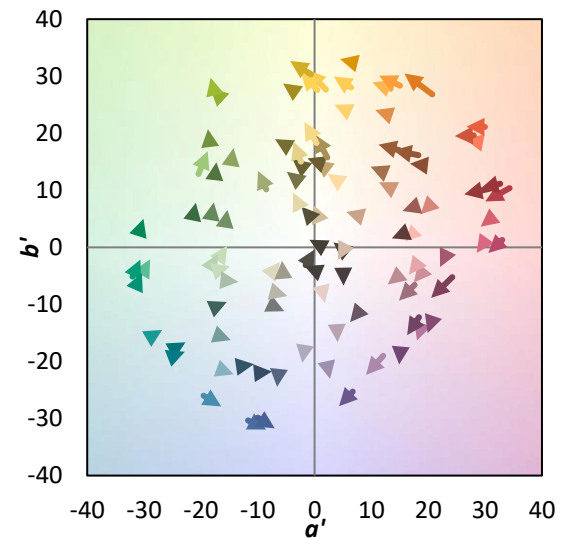
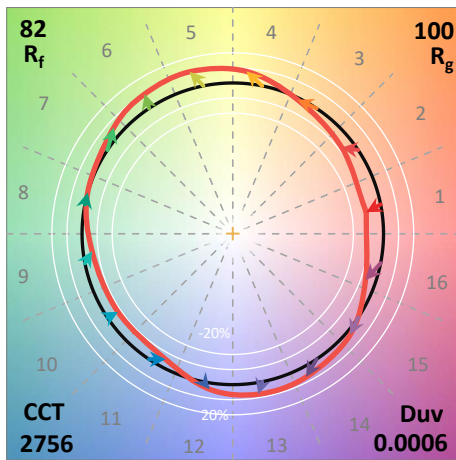
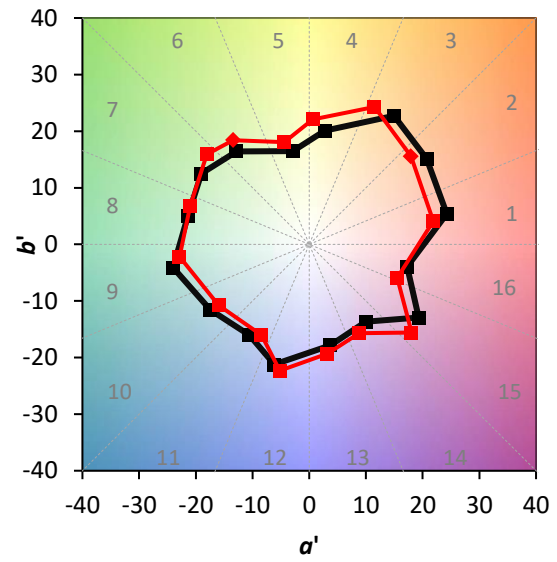
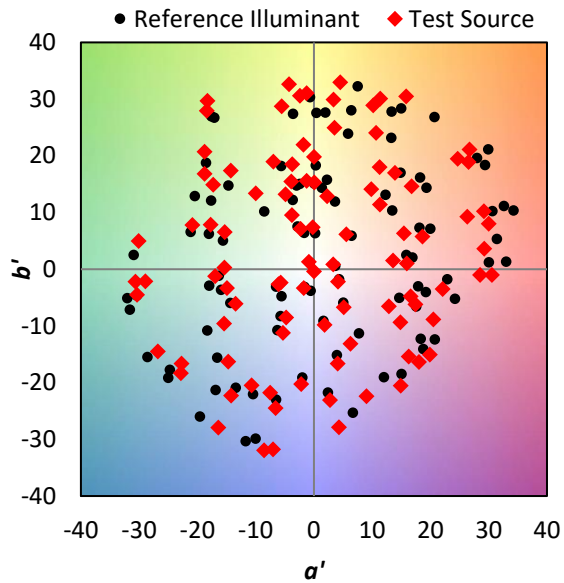
TM-30-18

### Summary

$R_f = 82.2$   
 $R_g = 99.9$   
 $CIE R_a = 82.9$   
 $R_9 = 10.8$

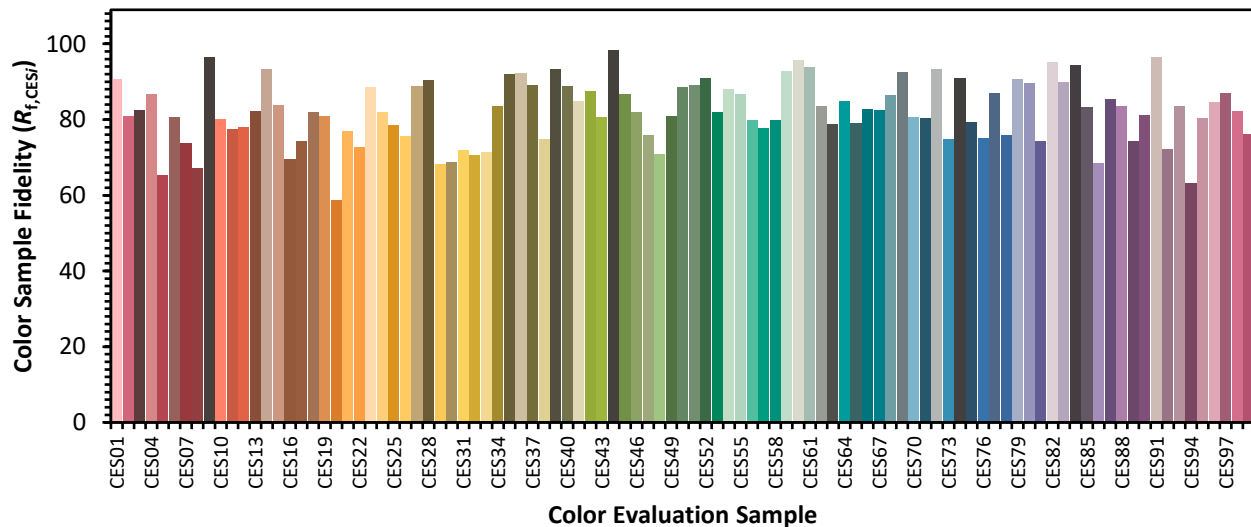


### Color Vector Graphics

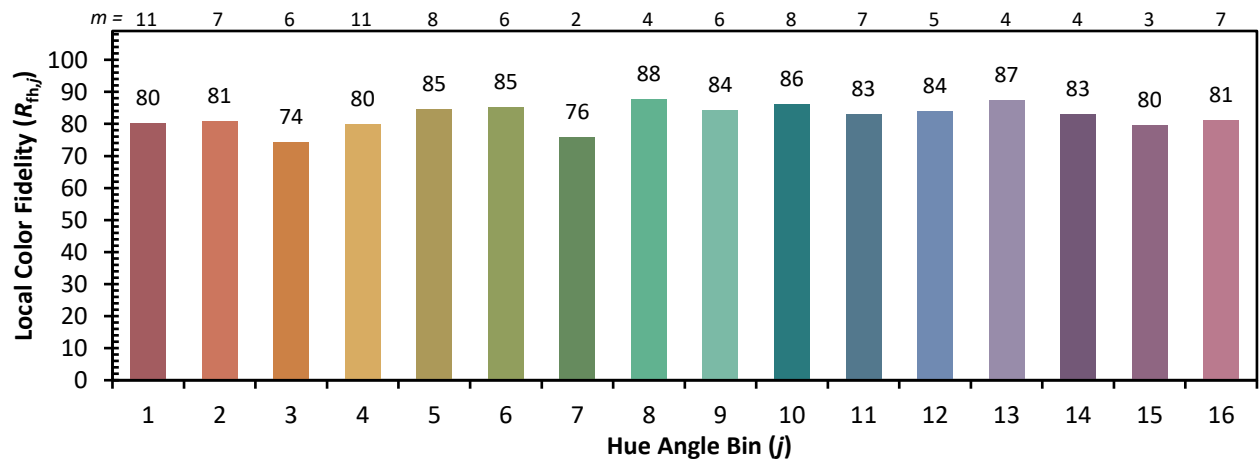
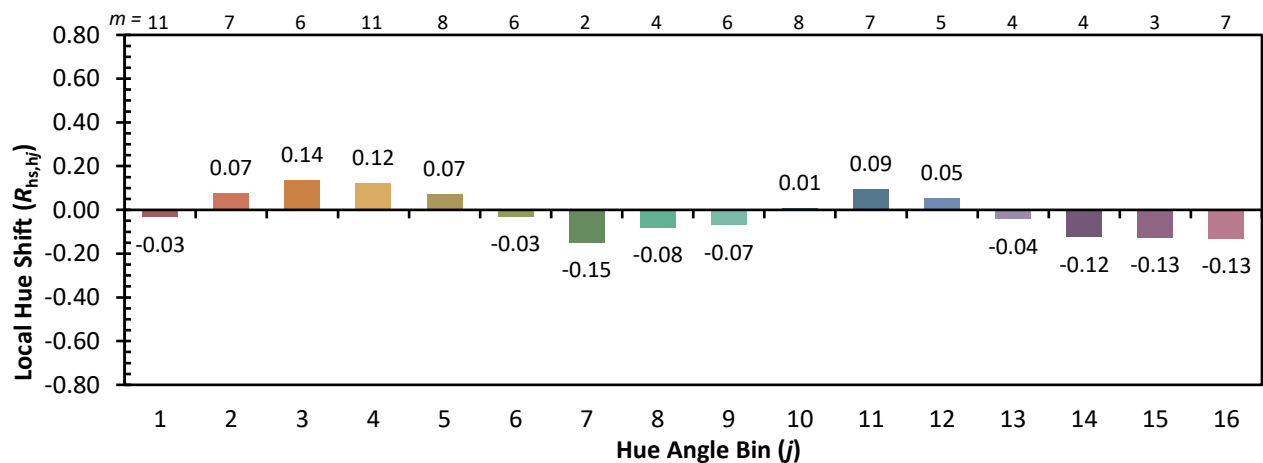
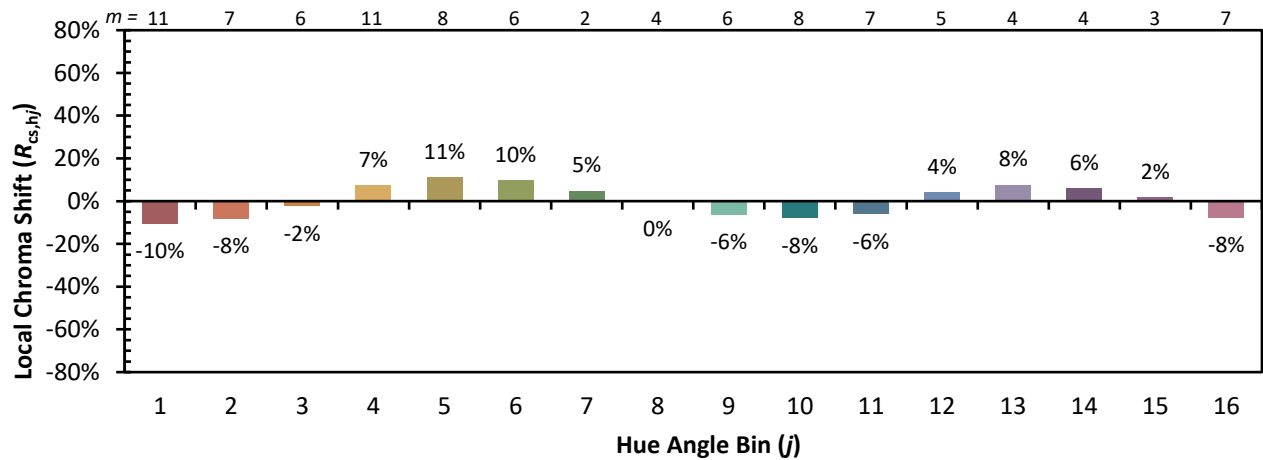


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

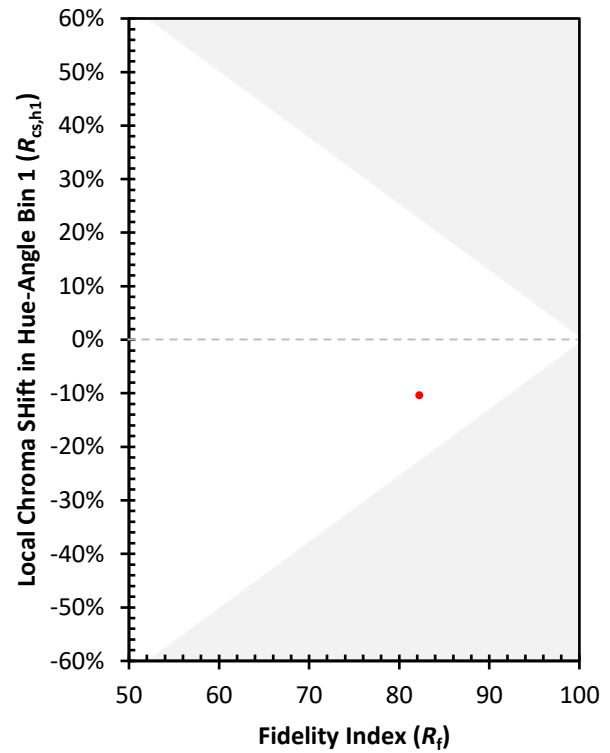
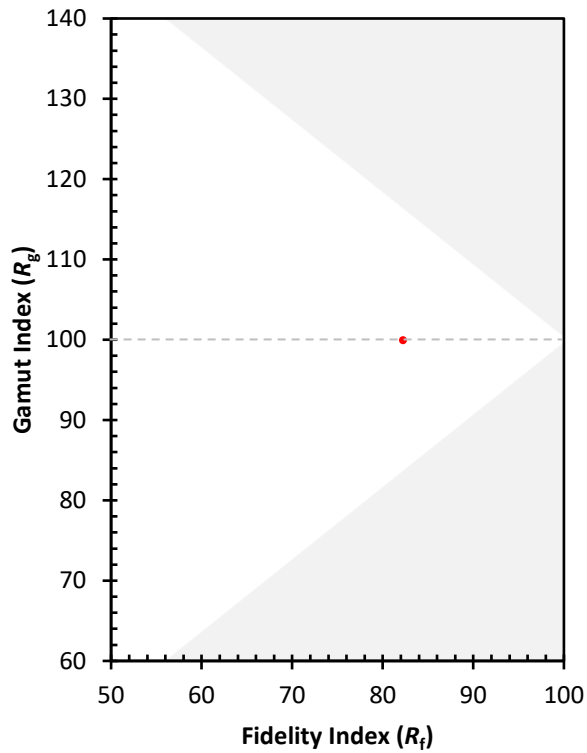
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 76 | CES51 = 89 | CES76 = 75 |
| CES02 = 63 | CES27 = 89 | CES52 = 91 | CES77 = 87 |
| CES03 = 31 | CES28 = 90 | CES53 = 82 | CES78 = 76 |
| CES04 = 71 | CES29 = 68 | CES54 = 88 | CES79 = 91 |
| CES05 = 50 | CES30 = 69 | CES55 = 87 | CES80 = 90 |
| CES06 = 52 | CES31 = 72 | CES56 = 80 | CES81 = 74 |
| CES07 = 43 | CES32 = 71 | CES57 = 78 | CES82 = 95 |
| CES08 = 42 | CES33 = 71 | CES58 = 80 | CES83 = 90 |
| CES09 = 29 | CES34 = 84 | CES59 = 93 | CES84 = 94 |
| CES10 = 77 | CES35 = 92 | CES60 = 96 | CES85 = 83 |
| CES11 = 59 | CES36 = 92 | CES61 = 94 | CES86 = 69 |
| CES12 = 66 | CES37 = 89 | CES62 = 84 | CES87 = 85 |
| CES13 = 44 | CES38 = 75 | CES63 = 79 | CES88 = 84 |
| CES14 = 74 | CES39 = 93 | CES64 = 85 | CES89 = 74 |
| CES15 = 72 | CES40 = 89 | CES65 = 79 | CES90 = 81 |
| CES16 = 48 | CES41 = 85 | CES66 = 83 | CES91 = 96 |
| CES17 = 50 | CES42 = 88 | CES67 = 82 | CES92 = 72 |
| CES18 = 57 | CES43 = 81 | CES68 = 86 | CES93 = 84 |
| CES19 = 73 | CES44 = 98 | CES69 = 92 | CES94 = 63 |
| CES20 = 67 | CES45 = 87 | CES70 = 81 | CES95 = 80 |
| CES21 = 87 | CES46 = 82 | CES71 = 81 | CES96 = 85 |
| CES22 = 79 | CES47 = 76 | CES72 = 93 | CES97 = 87 |
| CES23 = 92 | CES48 = 71 | CES73 = 75 | CES98 = 82 |
| CES24 = 91 | CES49 = 81 | CES74 = 91 | CES99 = 76 |
| CES25 = 72 | CES50 = 88 | CES75 = 79 |            |



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)