

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: P1049499

Luminaire Tested: **GALN-SA1C-722-U-LBC**

Issue Date: 07/10/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1049499  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/10/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1C-722-U-LBC  
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 1xLight Square PACKAGE  
70CRI 2200K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (14) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3796.6 lumens  
Efficiency: N/A  
Efficacy: 75.6 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

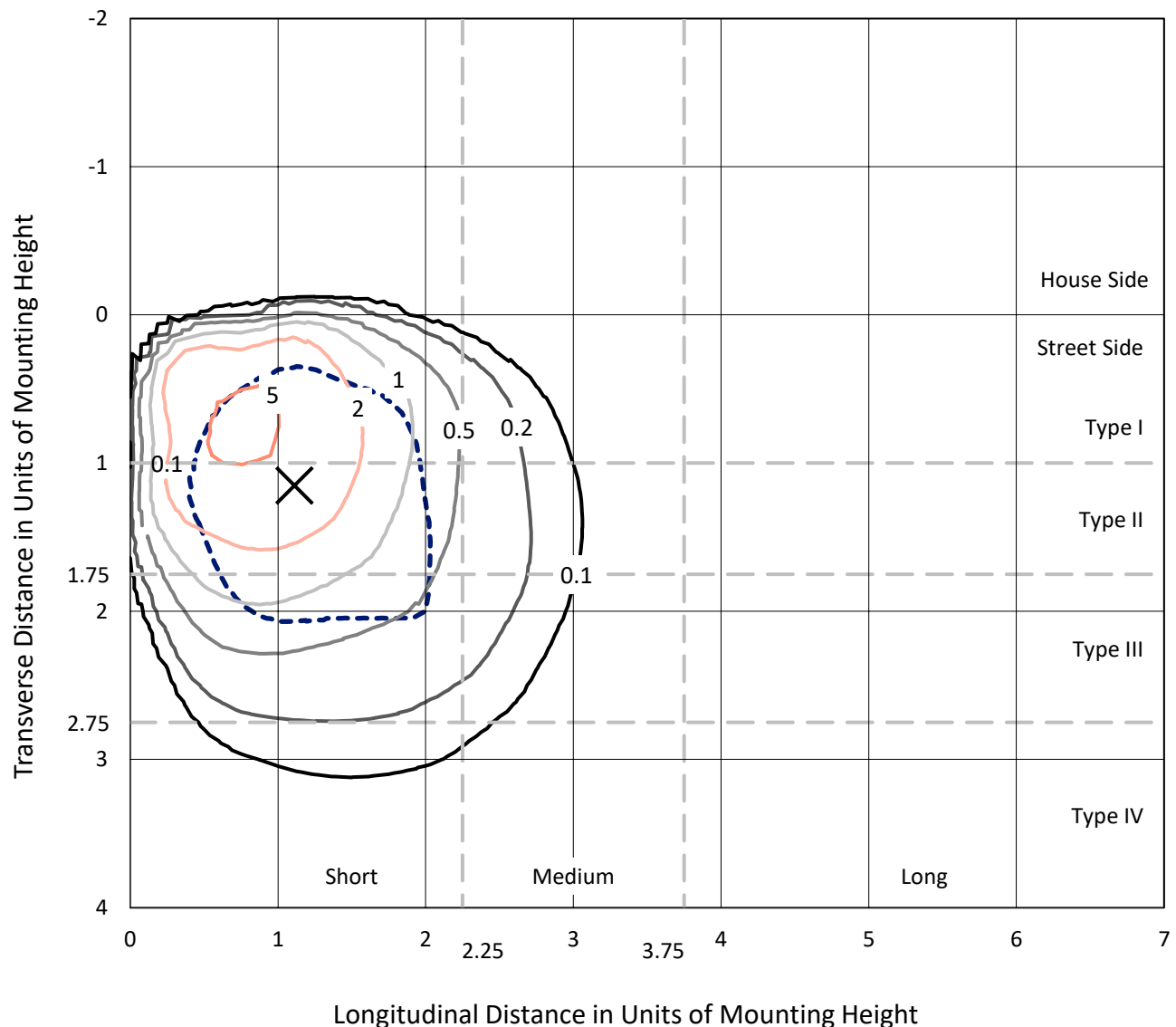
Input Watts (W): 50.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.97  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

REPORT NUMBER: P1049499

CATALOG NUMBER: GALN-SA1C-722-U-LBC

## Iso-Footcandle Lines of Horizontal Illumination

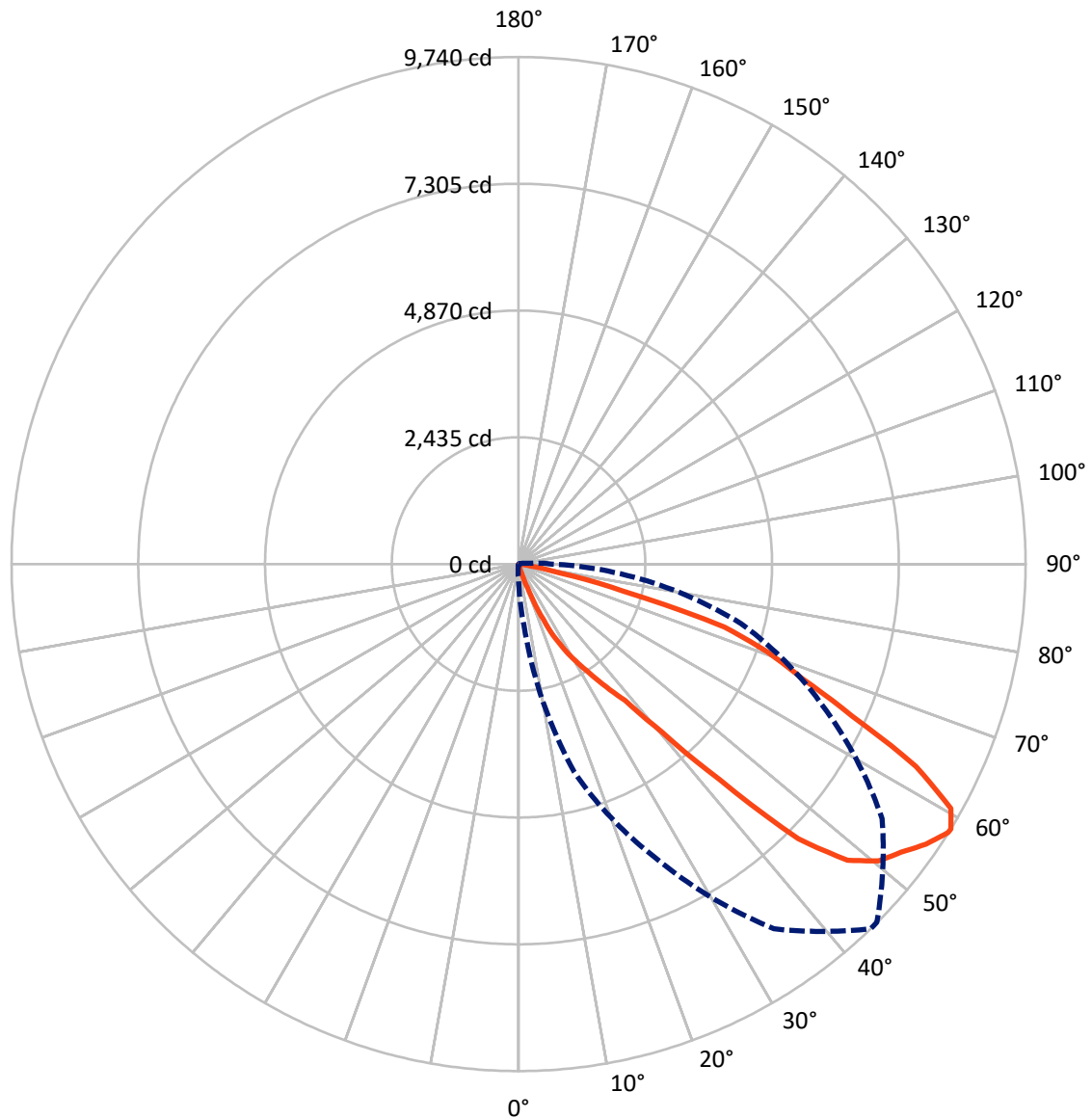
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.6 fc  
 Type III - Short - N/A

REPORT NUMBER: P1049499  
CATALOG NUMBER: GALN-SA1C-722-U-LBC

## Luminous Intensity Polar Plot



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

REPORT NUMBER: P1049499

CATALOG NUMBER: GALN-SA1C-722-U-LBC

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 25.9     | 0.0    | 25.9   |
|                    | % Fixture | 0.7      | 0.0    | 0.7    |
| <b>Street Side</b> | Lumens    | 3770.7   | 0.0    | 3770.7 |
|                    | % Fixture | 99.3     | 0.0    | 99.3   |
| <b>Total</b>       | Lumens    | 3796.6   | 0.0    | 3796.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.5    | 0.0       |
| 10°-20°   | 8.3    | 0.2       |
| 20°-30°   | 89.9   | 2.4       |
| 30°-40°   | 266.0  | 7.0       |
| 40°-50°   | 792.8  | 20.9      |
| 50°-60°   | 1258.0 | 33.1      |
| 60°-70°   | 1049.3 | 27.6      |
| 70°-80°   | 323.6  | 8.5       |
| 80°-90°   | 7.2    | 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°    | 3796.6 | 100.0     |
| 0°-180°   | 3796.6 | 100.0     |



REPORT NUMBER: P1049499

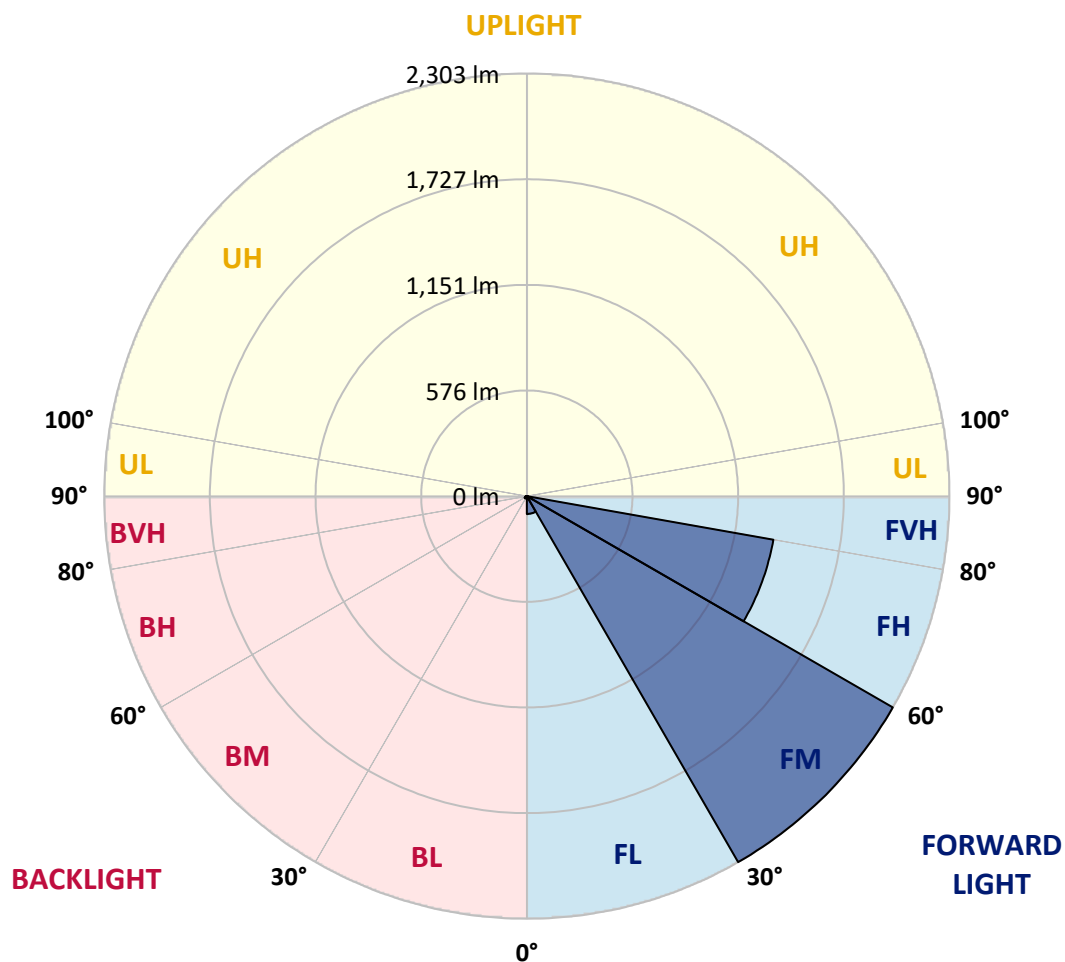
CATALOG NUMBER: GALN-SA1C-722-U-LBC

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 97.2   | 2.6       |                         |      |         |
| FM   | (30°-60°)   | 2302.6 | 60.6      |                         |      |         |
| FH   | (60°-80°)   | 1364.1 | 35.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 6.8    | 0.2       |                         |      | G0/10   |
| BL   | (0°-30°)    | 2.5    | 0.1       | B0/110                  |      |         |
| BM   | (30°-60°)   | 14.2   | 0.4       | B0/220                  |      |         |
| BH   | (60°-80°)   | 8.8    | 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



REPORT NUMBER: P1049499

CATALOG NUMBER: GALN-SA1C-722-U-LBC

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°     | 15°    | 25°    | 35°    | 44°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 16.6  | 16.6   | 16.6   | 16.6   | 16.6   | 16.6   | 16.6   | 16.6   | 16.6   | 16.6   | 16.6   |
| 2.5°  | 21.5  | 21.5   | 20.6   | 19.5   | 18.4   | 17.2   | 16.9   | 16.3   | 16.1   | 15.8   | 15.5   |
| 5°    | 22.4  | 22.4   | 22.1   | 21.2   | 20.1   | 19.2   | 19.2   | 18.4   | 17.8   | 17.2   | 16.6   |
| 7.5°  | 22.9  | 23.2   | 23.8   | 23.5   | 22.9   | 22.1   | 22.1   | 21.5   | 20.6   | 19.2   | 18.4   |
| 10°   | 23.8  | 24.7   | 25.8   | 26.4   | 26.7   | 26.7   | 26.4   | 26.1   | 24.7   | 22.7   | 20.4   |
| 12.5° | 24.7  | 26.4   | 29.3   | 32.1   | 33.8   | 36.1   | 35.9   | 35.3   | 31.5   | 27.2   | 23.2   |
| 15°   | 26.4  | 29.0   | 35.0   | 43.3   | 56.2   | 64.2   | 67.4   | 64.5   | 52.2   | 36.7   | 27.0   |
| 17.5° | 28.4  | 32.7   | 50.8   | 90.6   | 148.6  | 176.1  | 192.7  | 179.3  | 118.7  | 69.7   | 33.8   |
| 20°   | 30.4  | 39.9   | 94.4   | 234.9  | 385.5  | 475.5  | 500.5  | 461.5  | 296.3  | 132.8  | 50.2   |
| 22.5° | 33.8  | 55.9   | 191.3  | 485.6  | 830.6  | 965.7  | 991.2  | 866.4  | 559.5  | 262.1  | 75.4   |
| 25°   | 41.0  | 81.2   | 329.8  | 791.3  | 1239.6 | 1467.6 | 1457.0 | 1293.5 | 907.7  | 418.7  | 114.7  |
| 27.5° | 51.3  | 118.2  | 498.7  | 1124.3 | 1631.3 | 1832.4 | 1856.5 | 1654.3 | 1210.0 | 615.8  | 162.9  |
| 30°   | 66.3  | 163.8  | 680.0  | 1391.0 | 1945.4 | 2162.8 | 2166.8 | 1957.7 | 1480.5 | 788.7  | 222.0  |
| 32.5° | 80.6  | 206.8  | 838.6  | 1648.8 | 2254.8 | 2493.2 | 2510.9 | 2253.7 | 1682.4 | 968.8  | 273.3  |
| 35°   | 91.5  | 234.9  | 999.2  | 1875.4 | 2566.9 | 2895.3 | 2894.1 | 2588.7 | 1921.6 | 1129.7 | 344.4  |
| 37.5° | 92.3  | 263.0  | 1144.6 | 2107.1 | 2962.1 | 3329.8 | 3366.2 | 3029.5 | 2210.7 | 1328.8 | 431.6  |
| 40°   | 90.3  | 294.5  | 1328.8 | 2468.5 | 3674.2 | 4238.3 | 4270.5 | 3846.0 | 2790.6 | 1669.5 | 567.9  |
| 42.5° | 92.6  | 349.3  | 1627.6 | 3135.9 | 4856.7 | 5666.9 | 5728.9 | 5282.6 | 3856.6 | 2364.7 | 810.8  |
| 45°   | 104.7 | 452.3  | 2253.7 | 4252.4 | 6542.2 | 7530.0 | 7509.3 | 6866.6 | 5097.0 | 3423.0 | 1291.5 |
| 47.5° | 144.5 | 704.4  | 3181.8 | 5339.1 | 7619.4 | 8499.1 | 8516.8 | 7731.3 | 5820.9 | 4236.6 | 1938.8 |
| 50°   | 222.3 | 1077.8 | 3961.6 | 5913.6 | 8082.6 | 8965.1 | 8948.5 | 8040.8 | 6096.0 | 4637.3 | 2335.4 |
| 52.5° | 289.1 | 1348.0 | 4352.8 | 6115.2 | 8142.0 | 9195.4 | 9194.3 | 8122.2 | 6138.7 | 4671.7 | 2385.0 |
| 55°   | 305.7 | 1368.3 | 4355.9 | 6126.1 | 8275.1 | 9496.8 | 9534.7 | 8322.7 | 6194.0 | 4521.4 | 2198.3 |
| 57.5° | 299.1 | 1211.4 | 4174.1 | 6189.2 | 8512.0 | 9730.0 | 9732.0 | 8516.8 | 6334.6 | 4429.4 | 1889.2 |
| 58°   | 293.4 | 1186.8 | 4137.4 | 6225.0 | 8552.7 | 9739.8 | 9734.9 | 8525.7 | 6449.0 | 4425.9 | 1840.7 |
| 60°   | 261.3 | 1030.5 | 3994.3 | 6316.5 | 8492.2 | 9539.6 | 9494.0 | 8331.6 | 6432.1 | 4390.6 | 1596.6 |
| 62.5° | 205.3 | 803.9  | 3853.5 | 6210.7 | 7843.4 | 8570.5 | 8589.4 | 7376.2 | 5863.7 | 4185.0 | 1309.0 |
| 65°   | 163.5 | 599.1  | 3559.8 | 5447.8 | 6458.8 | 7038.1 | 7108.7 | 5998.2 | 4894.3 | 3543.7 | 965.1  |
| 67.5° | 130.2 | 433.1  | 2986.2 | 4337.3 | 5110.8 | 5874.0 | 5925.3 | 5035.9 | 3791.8 | 2715.1 | 685.7  |
| 70°   | 105.8 | 292.8  | 2061.2 | 3172.0 | 4215.4 | 5073.5 | 5076.7 | 4183.6 | 2830.2 | 1779.0 | 430.2  |
| 72.5° | 93.8  | 202.8  | 1196.5 | 2313.3 | 3418.1 | 4134.2 | 4050.8 | 3394.9 | 2175.1 | 1053.7 | 256.4  |
| 75°   | 81.2  | 134.5  | 586.8  | 1414.2 | 2072.4 | 2086.5 | 2118.3 | 1574.8 | 1087.3 | 501.0  | 153.7  |
| 77.5° | 66.8  | 95.5   | 231.2  | 386.3  | 621.5  | 795.6  | 825.1  | 625.2  | 361.7  | 123.3  | 82.0   |
| 80°   | 45.9  | 45.3   | 62.2   | 118.4  | 177.8  | 222.8  | 207.9  | 160.9  | 94.6   | 47.3   | 29.3   |
| 82.5° | 19.8  | 21.5   | 28.1   | 33.8   | 27.5   | 26.7   | 25.5   | 16.3   | 12.6   | 9.8    | 6.0    |
| 85°   | 6.3   | 5.7    | 6.0    | 6.0    | 4.9    | 3.7    | 3.7    | 1.7    | 0.0    | 0.0    | 0.0    |
| 87.5° | 3.2   | 2.6    | 2.6    | 2.3    | 1.4    | 0.6    | 0.3    | 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    | 0.0    |

REPORT NUMBER: P1049499

CATALOG NUMBER: GALN-SA1C-722-U-LBC

**CANDELA DISTRIBUTION (continued):**

|       | 90°   | 95°   | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| 0°    | 16.6  | 16.6  | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 |
| 2.5°  | 15.2  | 15.2  | 14.6 | 14.1 | 13.8 | 13.2 | 12.9 | 12.6 | 12.3 | 12.0 | 11.8 |
| 5°    | 16.1  | 15.8  | 14.9 | 14.1 | 13.2 | 12.3 | 11.8 | 11.2 | 10.6 | 10.3 | 10.0 |
| 7.5°  | 17.5  | 16.9  | 15.2 | 13.8 | 12.6 | 11.5 | 10.9 | 10.0 | 9.5  | 8.6  | 8.3  |
| 10°   | 19.2  | 18.1  | 15.8 | 14.1 | 12.3 | 10.9 | 10.0 | 9.2  | 8.3  | 7.2  | 6.9  |
| 12.5° | 21.5  | 19.5  | 16.6 | 13.8 | 11.8 | 10.0 | 9.2  | 8.0  | 7.2  | 6.3  | 5.7  |
| 15°   | 23.5  | 20.9  | 16.9 | 13.8 | 11.2 | 9.2  | 8.0  | 6.9  | 6.0  | 4.9  | 4.3  |
| 17.5° | 26.4  | 22.1  | 16.6 | 12.9 | 10.3 | 8.0  | 6.9  | 6.0  | 4.6  | 2.9  | 2.3  |
| 20°   | 31.3  | 22.9  | 16.1 | 12.0 | 8.9  | 6.6  | 5.2  | 4.0  | 2.0  | 0.6  | 0.0  |
| 22.5° | 39.0  | 25.2  | 15.5 | 10.9 | 7.7  | 5.2  | 3.4  | 1.4  | 0.0  | 0.0  | 0.0  |
| 25°   | 53.9  | 29.3  | 15.5 | 10.3 | 6.9  | 3.7  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  |
| 27.5° | 71.7  | 34.7  | 15.5 | 8.9  | 5.4  | 2.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 30°   | 89.8  | 40.7  | 15.5 | 7.7  | 4.3  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 32.5° | 107.0 | 45.9  | 15.8 | 6.6  | 2.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 35°   | 124.5 | 46.7  | 15.5 | 5.7  | 1.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 37.5° | 146.8 | 45.0  | 14.6 | 5.2  | 0.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 40°   | 180.7 | 45.9  | 13.8 | 4.9  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 42.5° | 243.2 | 49.6  | 12.6 | 4.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 45°   | 420.5 | 66.5  | 11.5 | 5.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 47.5° | 695.5 | 119.6 | 11.2 | 5.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 50°   | 887.6 | 150.6 | 11.8 | 5.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 52.5° | 886.2 | 167.8 | 12.3 | 5.7  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 55°   | 787.8 | 170.9 | 13.2 | 6.3  | 3.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 57.5° | 658.5 | 156.0 | 15.2 | 7.7  | 6.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 58°   | 635.6 | 149.1 | 15.8 | 8.0  | 7.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 60°   | 520.8 | 121.6 | 20.1 | 10.0 | 10.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 62.5° | 359.6 | 106.1 | 22.9 | 12.9 | 10.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 65°   | 254.4 | 95.8  | 25.0 | 13.8 | 8.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 67.5° | 190.1 | 88.3  | 27.5 | 14.1 | 4.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 70°   | 145.7 | 82.9  | 33.8 | 14.9 | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 72.5° | 118.7 | 76.6  | 41.0 | 15.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 75°   | 98.4  | 69.1  | 39.6 | 16.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 77.5° | 65.4  | 53.6  | 36.1 | 16.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 80°   | 22.9  | 21.2  | 28.1 | 14.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 82.5° | 3.4   | 2.9   | 4.0  | 5.2  | 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  | 0.0  |



REPORT NUMBER: P1049499

CATALOG NUMBER: GALN-SA1C-722-U-LBC

**CANDELA DISTRIBUTION (continued):**

|       | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0°    | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 |
| 2.5°  | 11.8 | 11.8 | 11.5 | 11.8 | 11.8 | 12.3 | 13.8 | 15.8 | 18.1 | 18.9 | 19.8 |
| 5°    | 9.8  | 9.5  | 9.2  | 9.2  | 9.2  | 10.0 | 11.2 | 13.5 | 16.1 | 17.2 | 17.8 |
| 7.5°  | 8.0  | 7.7  | 7.5  | 7.2  | 7.2  | 7.7  | 9.2  | 11.8 | 14.3 | 15.5 | 16.3 |
| 10°   | 6.6  | 6.0  | 5.7  | 5.4  | 5.4  | 6.0  | 7.5  | 10.0 | 12.9 | 14.1 | 15.2 |
| 12.5° | 5.4  | 4.6  | 4.0  | 3.7  | 3.4  | 4.3  | 5.7  | 8.0  | 11.2 | 12.6 | 13.8 |
| 15°   | 3.7  | 2.9  | 2.0  | 1.7  | 1.4  | 2.3  | 3.7  | 6.3  | 9.5  | 11.2 | 12.3 |
| 17.5° | 2.0  | 0.9  | 0.3  | 0.0  | 0.0  | 0.6  | 1.7  | 4.6  | 7.7  | 9.2  | 10.6 |
| 20°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.3  | 5.7  | 7.2  | 8.6  |
| 22.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 3.4  | 4.9  | 6.3  |
| 25°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.4  | 2.6  | 3.7  |
| 27.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.6  | 1.7  |
| 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  | 0.3  |
| 85°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.9  | 1.7  |
| 87.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.1  | 2.3  | 3.2  |
| 90°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

REPORT NUMBER: P1049499

CATALOG NUMBER: GALN-SA1C-722-U-LBC

**CANDELA DISTRIBUTION (continued):**

|       | 285° | 295° | 305° | 315° | 316° | 325° | 335° | 345° | 355° | 360°  |
|-------|------|------|------|------|------|------|------|------|------|-------|
| 0°    | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6  |
| 2.5°  | 20.4 | 20.1 | 19.5 | 18.9 | 18.9 | 18.9 | 19.8 | 20.6 | 21.5 | 21.5  |
| 5°    | 18.9 | 18.9 | 18.6 | 18.1 | 18.1 | 18.4 | 19.5 | 20.9 | 22.1 | 22.4  |
| 7.5°  | 17.5 | 18.1 | 17.5 | 17.2 | 17.5 | 17.8 | 18.9 | 20.6 | 22.4 | 22.9  |
| 10°   | 16.6 | 16.9 | 16.9 | 16.6 | 16.6 | 17.2 | 18.4 | 20.6 | 22.9 | 23.8  |
| 12.5° | 15.5 | 16.1 | 15.8 | 15.8 | 15.8 | 16.3 | 17.8 | 20.4 | 23.5 | 24.7  |
| 15°   | 14.3 | 15.2 | 15.2 | 14.9 | 14.9 | 15.2 | 17.2 | 20.1 | 24.4 | 26.4  |
| 17.5° | 13.2 | 14.1 | 14.3 | 13.8 | 13.8 | 14.3 | 16.3 | 20.1 | 25.0 | 28.4  |
| 20°   | 10.9 | 12.3 | 13.2 | 12.3 | 12.3 | 12.9 | 14.9 | 18.9 | 25.2 | 30.4  |
| 22.5° | 8.6  | 10.0 | 11.2 | 10.9 | 10.9 | 11.2 | 13.8 | 18.1 | 25.5 | 33.8  |
| 25°   | 6.3  | 7.7  | 8.6  | 9.2  | 9.2  | 10.0 | 12.6 | 17.5 | 26.7 | 41.0  |
| 27.5° | 3.7  | 5.4  | 6.6  | 7.2  | 7.5  | 8.6  | 11.8 | 16.9 | 28.7 | 51.3  |
| 30°   | 1.7  | 3.2  | 4.6  | 5.7  | 5.7  | 7.7  | 10.9 | 16.3 | 31.3 | 66.3  |
| 32.5° | 0.0  | 1.4  | 2.3  | 4.0  | 4.3  | 6.3  | 10.0 | 15.8 | 35.0 | 80.6  |
| 35°   | 0.0  | 0.0  | 1.1  | 3.2  | 3.2  | 5.2  | 9.2  | 15.2 | 40.7 | 91.5  |
| 37.5° | 0.0  | 0.0  | 0.0  | 2.3  | 2.6  | 4.6  | 8.9  | 14.9 | 41.9 | 92.3  |
| 40°   | 0.0  | 0.0  | 0.0  | 1.7  | 2.0  | 4.3  | 8.9  | 15.2 | 37.9 | 90.3  |
| 42.5° | 0.0  | 0.0  | 0.0  | 1.1  | 1.4  | 4.3  | 8.9  | 15.8 | 34.1 | 92.6  |
| 45°   | 0.0  | 0.0  | 0.0  | 0.9  | 1.1  | 4.6  | 8.6  | 15.5 | 32.1 | 104.7 |
| 47.5° | 0.0  | 0.0  | 0.0  | 1.1  | 1.7  | 4.6  | 8.3  | 15.2 | 32.4 | 144.5 |
| 50°   | 0.0  | 0.0  | 0.0  | 1.4  | 2.0  | 4.6  | 8.6  | 14.6 | 35.6 | 222.3 |
| 52.5° | 0.0  | 0.0  | 0.0  | 1.1  | 1.7  | 5.2  | 9.5  | 14.3 | 38.7 | 289.1 |
| 55°   | 0.0  | 0.0  | 0.0  | 0.3  | 0.9  | 6.6  | 10.3 | 14.3 | 43.6 | 305.7 |
| 57.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.5  | 11.8 | 15.2 | 51.6 | 299.1 |
| 58°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.5  | 12.0 | 15.2 | 52.2 | 293.4 |
| 60°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.5  | 13.2 | 16.9 | 56.2 | 261.3 |
| 62.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.3  | 15.8 | 21.2 | 58.5 | 205.3 |
| 65°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.2  | 18.6 | 23.2 | 60.2 | 163.5 |
| 67.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.9  | 19.2 | 23.5 | 61.1 | 130.2 |
| 70°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.2  | 18.9 | 25.2 | 64.0 | 105.8 |
| 72.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.7  | 17.2 | 27.8 | 64.0 | 93.8  |
| 75°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.0  | 16.1 | 31.3 | 58.2 | 81.2  |
| 77.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.7  | 15.8 | 36.4 | 51.9 | 66.8  |
| 80°   | 0.6  | 0.9  | 0.9  | 0.6  | 0.6  | 4.9  | 15.5 | 37.0 | 44.2 | 45.9  |
| 82.5° | 1.7  | 2.3  | 2.0  | 1.4  | 1.4  | 4.3  | 13.8 | 31.0 | 22.9 | 19.8  |
| 85°   | 3.2  | 3.7  | 3.7  | 3.2  | 3.2  | 4.0  | 8.6  | 11.2 | 7.7  | 6.3   |
| 87.5° | 4.3  | 4.9  | 4.9  | 4.3  | 4.3  | 4.0  | 3.7  | 3.4  | 3.2  | 3.2   |
| 90°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-2

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-722-U-5WQ

Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2407-184-2  
 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-722-U-5WQ**  
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI  
 2200K CCT 26 LEDS

### Spectral Parameters

|                           |          |           |      |      |       |
|---------------------------|----------|-----------|------|------|-------|
| CCT (K):                  | 2160     | CRI (Ra): | 71.9 |      |       |
| CIE u':                   | 0.2927   | R1:       | 68.7 | R9:  | -17.8 |
| CIE v':                   | 0.5388   | R2:       | 82.6 | R10: | 60.5  |
| Duv:                      | 0.0015   | R3:       | 95.5 | R11: | 60.2  |
| CIE x:                    | 0.5130   | R4:       | 66.4 | R12: | 48.2  |
| CIE y:                    | 0.4197   | R5:       | 65.4 | R13: | 70.7  |
| CIE z:                    | 0.0674   | R6:       | 75.9 | R14: | 96.8  |
| Peak Wavelength (nm):     | 609      | R7:       | 77.2 | R15: | 61.8  |
| Dominant Wavelength (nm): | 587      | R8:       | 43.5 |      |       |
| Purity:                   | 79.96089 |           |      |      |       |
| Rf:                       | 70.6     |           |      |      |       |
| Rg:                       | 97.6     |           |      |      |       |



### Test Conditions

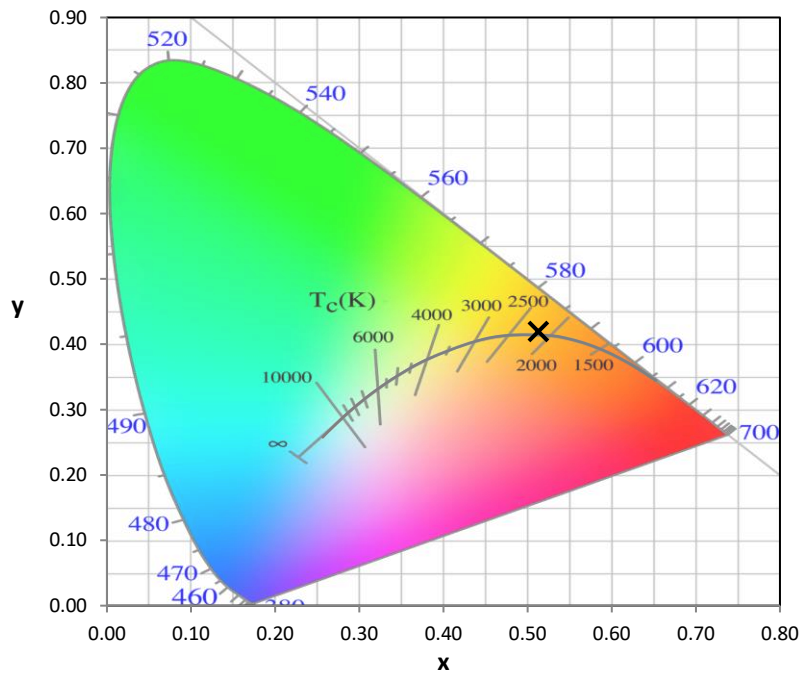
Stabilization Time: 21M  
 Operation Time: 1H 21M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-2

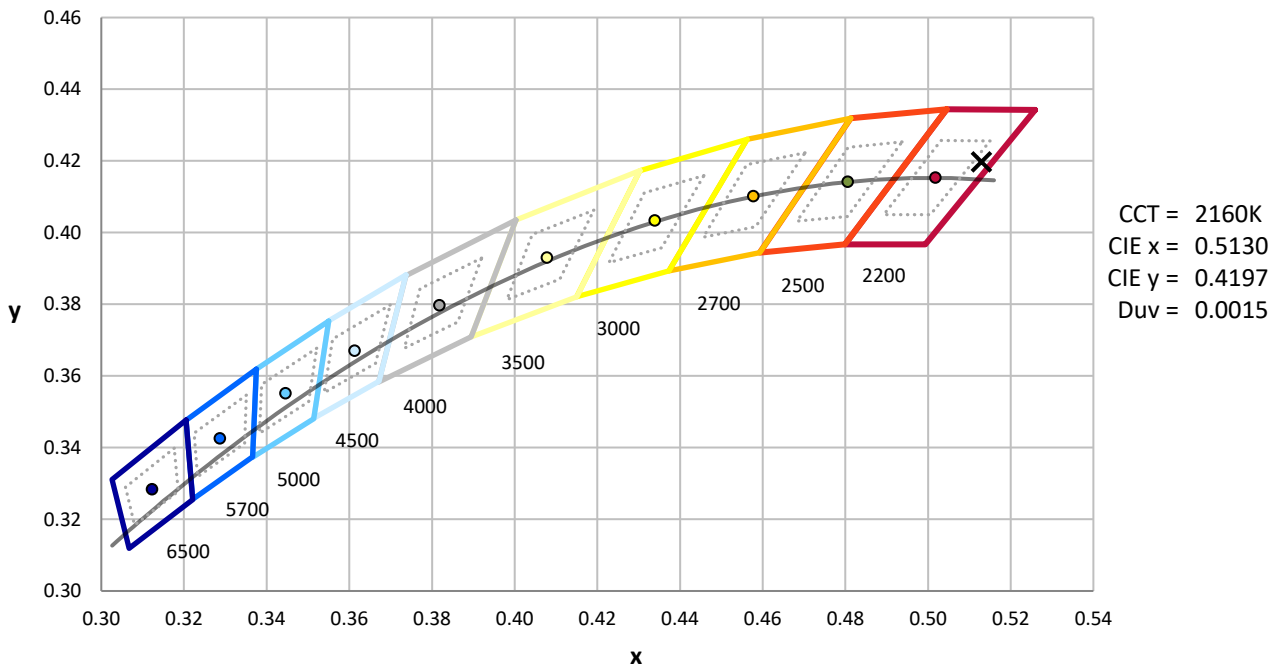
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| 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: SP1-2407-184-2

**CIE 1931 Chromaticity Diagram**



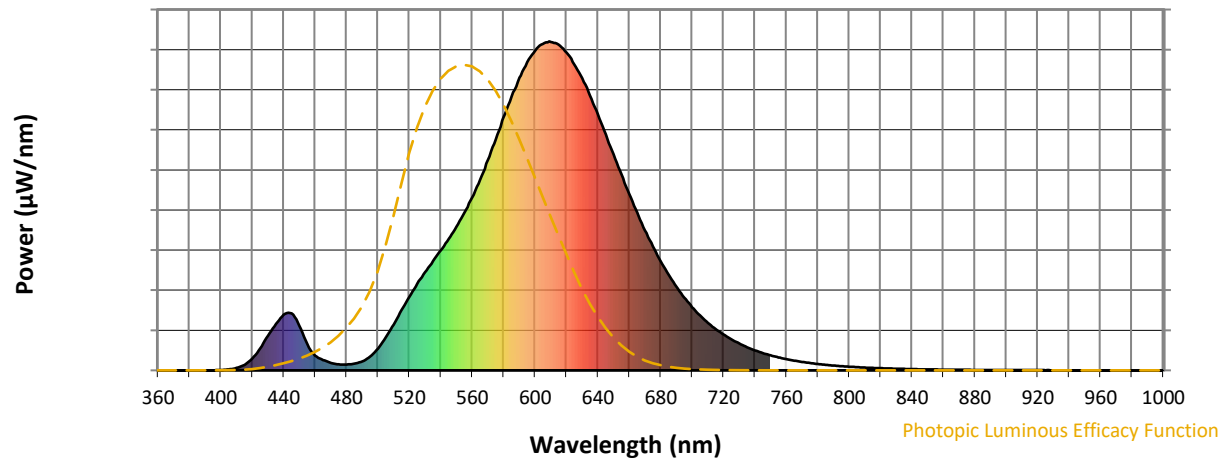
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

### 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               | 27                                   | NR                             | 620               | 966                                  | NR                             | 750               | 46                                   | NR                             | 880               | 1                                    | NR                             |
| 365               | 0                                    | NR                             | 495               | 42                                   | NR                             | 625               | 930                                  | NR                             | 755               | 39                                   | NR                             | 885               | 1                                    | NR                             |
| 370               | 0                                    | NR                             | 500               | 67                                   | NR                             | 630               | 888                                  | NR                             | 760               | 34                                   | NR                             | 890               | 1                                    | NR                             |
| 375               | 0                                    | NR                             | 505               | 101                                  | NR                             | 635               | 835                                  | NR                             | 765               | 30                                   | NR                             | 895               | 1                                    | NR                             |
| 380               | 0                                    | NR                             | 510               | 139                                  | NR                             | 640               | 778                                  | NR                             | 770               | 26                                   | NR                             | 900               | 1                                    | NR                             |
| 385               | 0                                    | NR                             | 515               | 183                                  | NR                             | 645               | 717                                  | NR                             | 775               | 22                                   | NR                             | 905               | 1                                    | NR                             |
| 390               | 0                                    | NR                             | 520               | 224                                  | NR                             | 650               | 656                                  | NR                             | 780               | 19                                   | NR                             | 910               | 1                                    | NR                             |
| 395               | 0                                    | NR                             | 525               | 262                                  | NR                             | 655               | 595                                  | NR                             | 785               | 17                                   | NR                             | 915               | 1                                    | NR                             |
| 400               | 1                                    | NR                             | 530               | 299                                  | NR                             | 660               | 536                                  | NR                             | 790               | 15                                   | NR                             | 920               | 1                                    | NR                             |
| 405               | 3                                    | NR                             | 535               | 332                                  | NR                             | 665               | 480                                  | NR                             | 795               | 13                                   | NR                             | 925               | 1                                    | NR                             |
| 410               | 7                                    | NR                             | 540               | 365                                  | NR                             | 670               | 425                                  | NR                             | 800               | 11                                   | NR                             | 930               | 1                                    | NR                             |
| 415               | 17                                   | NR                             | 545               | 400                                  | NR                             | 675               | 376                                  | NR                             | 805               | 10                                   | NR                             | 935               | 0                                    | NR                             |
| 420               | 36                                   | NR                             | 550               | 437                                  | NR                             | 680               | 332                                  | NR                             | 810               | 8                                    | NR                             | 940               | 0                                    | NR                             |
| 425               | 67                                   | NR                             | 555               | 479                                  | NR                             | 685               | 291                                  | NR                             | 815               | 8                                    | NR                             | 945               | 0                                    | NR                             |
| 430               | 105                                  | NR                             | 560               | 525                                  | NR                             | 690               | 255                                  | NR                             | 820               | 7                                    | NR                             | 950               | 0                                    | NR                             |
| 435               | 141                                  | NR                             | 565               | 579                                  | NR                             | 695               | 221                                  | NR                             | 825               | 6                                    | NR                             | 955               | 0                                    | NR                             |
| 440               | 169                                  | NR                             | 570               | 639                                  | NR                             | 700               | 192                                  | NR                             | 830               | 5                                    | NR                             | 960               | 0                                    | NR                             |
| 445               | 173                                  | NR                             | 575               | 703                                  | NR                             | 705               | 167                                  | NR                             | 835               | 4                                    | NR                             | 965               | 0                                    | NR                             |
| 450               | 136                                  | NR                             | 580               | 769                                  | NR                             | 710               | 144                                  | NR                             | 840               | 4                                    | NR                             | 970               | 0                                    | NR                             |
| 455               | 80                                   | NR                             | 585               | 832                                  | NR                             | 715               | 125                                  | NR                             | 845               | 3                                    | NR                             | 975               | 0                                    | NR                             |
| 460               | 45                                   | NR                             | 590               | 890                                  | NR                             | 720               | 109                                  | NR                             | 850               | 3                                    | NR                             | 980               | 0                                    | NR                             |
| 465               | 32                                   | NR                             | 595               | 937                                  | NR                             | 725               | 94                                   | NR                             | 855               | 3                                    | NR                             | 985               | 0                                    | NR                             |
| 470               | 23                                   | NR                             | 600               | 972                                  | NR                             | 730               | 81                                   | NR                             | 860               | 2                                    | NR                             | 990               | 0                                    | NR                             |
| 475               | 18                                   | NR                             | 605               | 992                                  | NR                             | 735               | 70                                   | NR                             | 865               | 2                                    | NR                             | 995               | 0                                    | NR                             |
| 480               | 18                                   | NR                             | 610               | 998                                  | NR                             | 740               | 61                                   | NR                             | 870               | 2                                    | NR                             | 1000              | 0                                    | NR                             |
| 485               | 20                                   | NR                             | 615               | 990                                  | NR                             | 745               | 53                                   | NR                             | 875               | 2                                    | NR                             |                   |                                      |                                |

REPORT NUMBER: SP1-2407-184-2

### Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 0.8

| λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(Φ/nm) |
|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|
| 360       | 0                           | NR               | 490       | 27                          | NR               | 620       | 966                         | NR               | 750       | 46                          | NR               | 880       | 1                           | NR               |
| 365       | 0                           | NR               | 495       | 42                          | NR               | 625       | 930                         | NR               | 755       | 39                          | NR               | 885       | 1                           | NR               |
| 370       | 0                           | NR               | 500       | 67                          | NR               | 630       | 888                         | NR               | 760       | 34                          | NR               | 890       | 1                           | NR               |
| 375       | 0                           | NR               | 505       | 101                         | NR               | 635       | 835                         | NR               | 765       | 30                          | NR               | 895       | 1                           | NR               |
| 380       | 0                           | NR               | 510       | 139                         | NR               | 640       | 778                         | NR               | 770       | 26                          | NR               | 900       | 1                           | NR               |
| 385       | 0                           | NR               | 515       | 183                         | NR               | 645       | 717                         | NR               | 775       | 22                          | NR               | 905       | 1                           | NR               |
| 390       | 0                           | NR               | 520       | 224                         | NR               | 650       | 656                         | NR               | 780       | 19                          | NR               | 910       | 1                           | NR               |
| 395       | 0                           | NR               | 525       | 262                         | NR               | 655       | 595                         | NR               | 785       | 17                          | NR               | 915       | 1                           | NR               |
| 400       | 1                           | NR               | 530       | 299                         | NR               | 660       | 536                         | NR               | 790       | 15                          | NR               | 920       | 1                           | NR               |
| 405       | 3                           | NR               | 535       | 332                         | NR               | 665       | 480                         | NR               | 795       | 13                          | NR               | 925       | 1                           | NR               |
| 410       | 7                           | NR               | 540       | 365                         | NR               | 670       | 425                         | NR               | 800       | 11                          | NR               | 930       | 1                           | NR               |
| 415       | 17                          | NR               | 545       | 400                         | NR               | 675       | 376                         | NR               | 805       | 10                          | NR               | 935       | 0                           | NR               |
| 420       | 36                          | NR               | 550       | 437                         | NR               | 680       | 332                         | NR               | 810       | 8                           | NR               | 940       | 0                           | NR               |
| 425       | 67                          | NR               | 555       | 479                         | NR               | 685       | 291                         | NR               | 815       | 8                           | NR               | 945       | 0                           | NR               |
| 430       | 105                         | NR               | 560       | 525                         | NR               | 690       | 255                         | NR               | 820       | 7                           | NR               | 950       | 0                           | NR               |
| 435       | 141                         | NR               | 565       | 579                         | NR               | 695       | 221                         | NR               | 825       | 6                           | NR               | 955       | 0                           | NR               |
| 440       | 169                         | NR               | 570       | 639                         | NR               | 700       | 192                         | NR               | 830       | 5                           | NR               | 960       | 0                           | NR               |
| 445       | 173                         | NR               | 575       | 703                         | NR               | 705       | 167                         | NR               | 835       | 4                           | NR               | 965       | 0                           | NR               |
| 450       | 136                         | NR               | 580       | 769                         | NR               | 710       | 144                         | NR               | 840       | 4                           | NR               | 970       | 0                           | NR               |
| 455       | 80                          | NR               | 585       | 832                         | NR               | 715       | 125                         | NR               | 845       | 3                           | NR               | 975       | 0                           | NR               |
| 460       | 45                          | NR               | 590       | 890                         | NR               | 720       | 109                         | NR               | 850       | 3                           | NR               | 980       | 0                           | NR               |
| 465       | 32                          | NR               | 595       | 937                         | NR               | 725       | 94                          | NR               | 855       | 3                           | NR               | 985       | 0                           | NR               |
| 470       | 23                          | NR               | 600       | 972                         | NR               | 730       | 81                          | NR               | 860       | 2                           | NR               | 990       | 0                           | NR               |
| 475       | 18                          | NR               | 605       | 992                         | NR               | 735       | 70                          | NR               | 865       | 2                           | NR               | 995       | 0                           | NR               |
| 480       | 18                          | NR               | 610       | 998                         | NR               | 740       | 61                          | NR               | 870       | 2                           | NR               | 1000      | 0                           | NR               |
| 485       | 20                          | NR               | 615       | 990                         | NR               | 745       | 53                          | NR               | 875       | 2                           | NR               |           |                             |                  |

REPORT NUMBER: SP1-2407-184-2

### Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.21

| $\lambda$<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               | 27                                     | NR                             | 620               | 966                                    | NR                             | 750               | 46                                     | NR                             | 880               | 1                                      | NR                             |
| 365               | 0                                      | NR                             | 495               | 42                                     | NR                             | 625               | 930                                    | NR                             | 755               | 39                                     | NR                             | 885               | 1                                      | NR                             |
| 370               | 0                                      | NR                             | 500               | 67                                     | NR                             | 630               | 888                                    | NR                             | 760               | 34                                     | NR                             | 890               | 1                                      | NR                             |
| 375               | 0                                      | NR                             | 505               | 101                                    | NR                             | 635               | 835                                    | NR                             | 765               | 30                                     | NR                             | 895               | 1                                      | NR                             |
| 380               | 0                                      | NR                             | 510               | 139                                    | NR                             | 640               | 778                                    | NR                             | 770               | 26                                     | NR                             | 900               | 1                                      | NR                             |
| 385               | 0                                      | NR                             | 515               | 183                                    | NR                             | 645               | 717                                    | NR                             | 775               | 22                                     | NR                             | 905               | 1                                      | NR                             |
| 390               | 0                                      | NR                             | 520               | 224                                    | NR                             | 650               | 656                                    | NR                             | 780               | 19                                     | NR                             | 910               | 1                                      | NR                             |
| 395               | 0                                      | NR                             | 525               | 262                                    | NR                             | 655               | 595                                    | NR                             | 785               | 17                                     | NR                             | 915               | 1                                      | NR                             |
| 400               | 1                                      | NR                             | 530               | 299                                    | NR                             | 660               | 536                                    | NR                             | 790               | 15                                     | NR                             | 920               | 1                                      | NR                             |
| 405               | 3                                      | NR                             | 535               | 332                                    | NR                             | 665               | 480                                    | NR                             | 795               | 13                                     | NR                             | 925               | 1                                      | NR                             |
| 410               | 7                                      | NR                             | 540               | 365                                    | NR                             | 670               | 425                                    | NR                             | 800               | 11                                     | NR                             | 930               | 1                                      | NR                             |
| 415               | 17                                     | NR                             | 545               | 400                                    | NR                             | 675               | 376                                    | NR                             | 805               | 10                                     | NR                             | 935               | 0                                      | NR                             |
| 420               | 36                                     | NR                             | 550               | 437                                    | NR                             | 680               | 332                                    | NR                             | 810               | 8                                      | NR                             | 940               | 0                                      | NR                             |
| 425               | 67                                     | NR                             | 555               | 479                                    | NR                             | 685               | 291                                    | NR                             | 815               | 8                                      | NR                             | 945               | 0                                      | NR                             |
| 430               | 105                                    | NR                             | 560               | 525                                    | NR                             | 690               | 255                                    | NR                             | 820               | 7                                      | NR                             | 950               | 0                                      | NR                             |
| 435               | 141                                    | NR                             | 565               | 579                                    | NR                             | 695               | 221                                    | NR                             | 825               | 6                                      | NR                             | 955               | 0                                      | NR                             |
| 440               | 169                                    | NR                             | 570               | 639                                    | NR                             | 700               | 192                                    | NR                             | 830               | 5                                      | NR                             | 960               | 0                                      | NR                             |
| 445               | 173                                    | NR                             | 575               | 703                                    | NR                             | 705               | 167                                    | NR                             | 835               | 4                                      | NR                             | 965               | 0                                      | NR                             |
| 450               | 136                                    | NR                             | 580               | 769                                    | NR                             | 710               | 144                                    | NR                             | 840               | 4                                      | NR                             | 970               | 0                                      | NR                             |
| 455               | 80                                     | NR                             | 585               | 832                                    | NR                             | 715               | 125                                    | NR                             | 845               | 3                                      | NR                             | 975               | 0                                      | NR                             |
| 460               | 45                                     | NR                             | 590               | 890                                    | NR                             | 720               | 109                                    | NR                             | 850               | 3                                      | NR                             | 980               | 0                                      | NR                             |
| 465               | 32                                     | NR                             | 595               | 937                                    | NR                             | 725               | 94                                     | NR                             | 855               | 3                                      | NR                             | 985               | 0                                      | NR                             |
| 470               | 23                                     | NR                             | 600               | 972                                    | NR                             | 730               | 81                                     | NR                             | 860               | 2                                      | NR                             | 990               | 0                                      | NR                             |
| 475               | 18                                     | NR                             | 605               | 992                                    | NR                             | 735               | 70                                     | NR                             | 865               | 2                                      | NR                             | 995               | 0                                      | NR                             |
| 480               | 18                                     | NR                             | 610               | 998                                    | NR                             | 740               | 61                                     | NR                             | 870               | 2                                      | NR                             | 1000              | 0                                      | NR                             |
| 485               | 20                                     | NR                             | 615               | 990                                    | NR                             | 745               | 53                                     | NR                             | 875               | 2                                      | NR                             |                   |                                        |                                |

REPORT NUMBER: SP1-2407-184-2

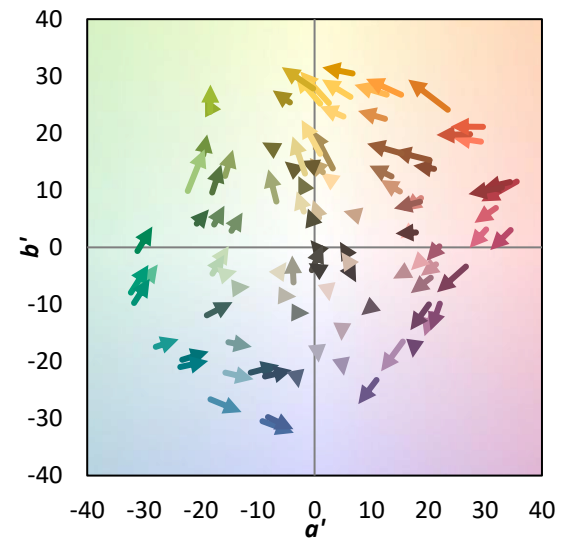
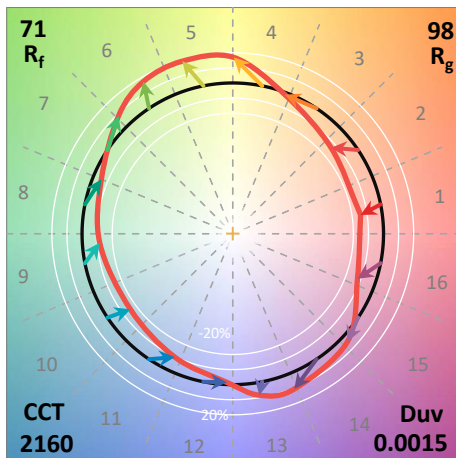
TM-30-18

### Summary

$R_f = 70.6$   
 $R_g = 97.6$   
 $CIE R_a = 71.9$   
 $R_g = -17.8$



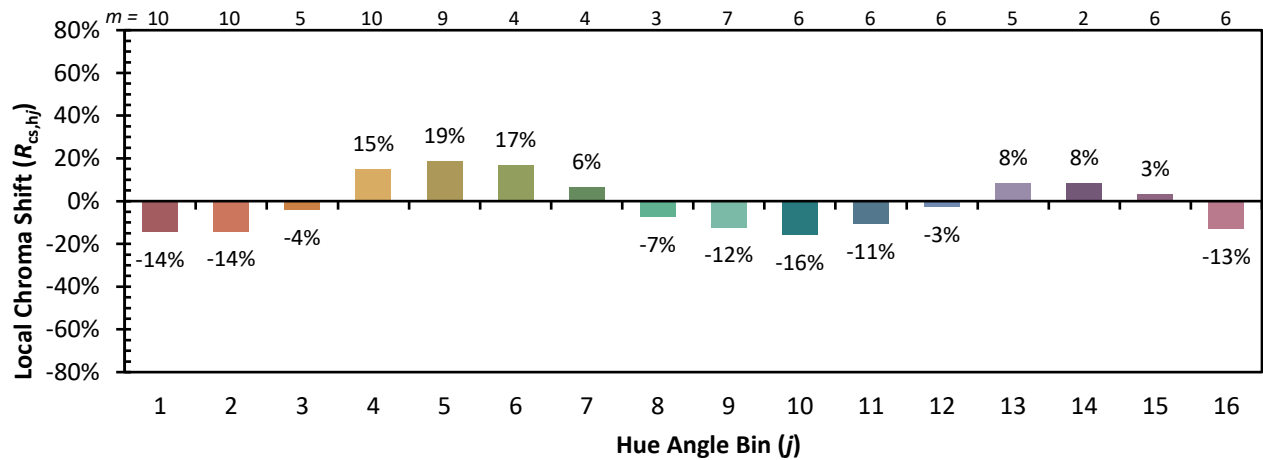
### Color Vector Graphics



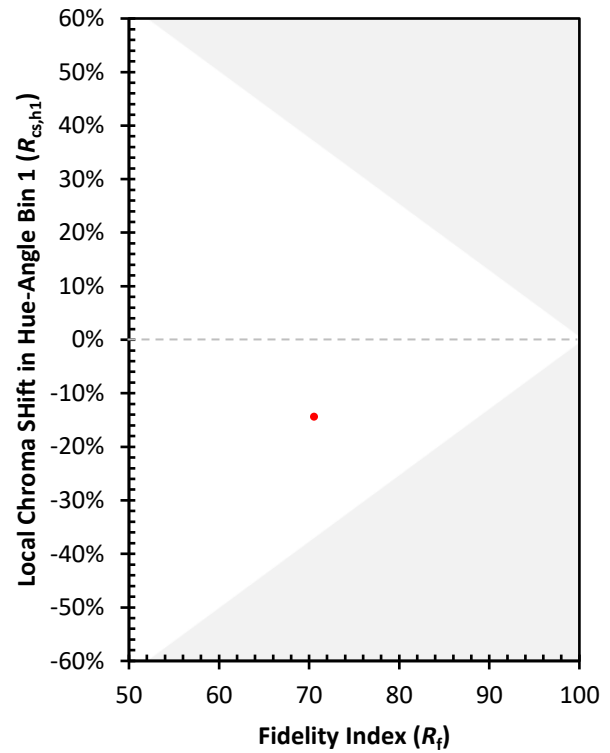
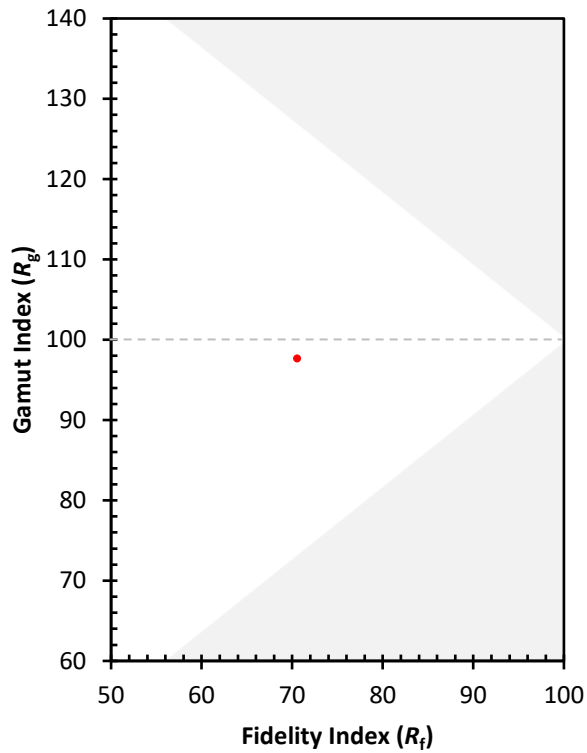
**Individual Sample Fidelity Index ( $R_{f,i}$ )**

|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 87 | CES26 = 60 | CES51 = 74 | CES76 = 58 |
| CES02 = 65 | CES27 = 77 | CES52 = 77 | CES77 = 82 |
| CES03 = 32 | CES28 = 85 | CES53 = 65 | CES78 = 65 |
| CES04 = 72 | CES29 = 50 | CES54 = 77 | CES79 = 86 |
| CES05 = 52 | CES30 = 49 | CES55 = 74 | CES80 = 85 |
| CES06 = 53 | CES31 = 55 | CES56 = 64 | CES81 = 61 |
| CES07 = 44 | CES32 = 55 | CES57 = 60 | CES82 = 93 |
| CES08 = 43 | CES33 = 55 | CES58 = 64 | CES83 = 83 |
| CES09 = 29 | CES34 = 75 | CES59 = 84 | CES84 = 93 |
| CES10 = 79 | CES35 = 88 | CES60 = 89 | CES85 = 81 |
| CES11 = 62 | CES36 = 78 | CES61 = 84 | CES86 = 55 |
| CES12 = 68 | CES37 = 82 | CES62 = 68 | CES87 = 79 |
| CES13 = 45 | CES38 = 54 | CES63 = 68 | CES88 = 72 |
| CES14 = 75 | CES39 = 90 | CES64 = 69 | CES89 = 62 |
| CES15 = 72 | CES40 = 86 | CES65 = 66 | CES90 = 67 |
| CES16 = 49 | CES41 = 75 | CES66 = 64 | CES91 = 89 |
| CES17 = 51 | CES42 = 83 | CES67 = 63 | CES92 = 67 |
| CES18 = 57 | CES43 = 68 | CES68 = 71 | CES93 = 78 |
| CES19 = 74 | CES44 = 98 | CES69 = 81 | CES94 = 52 |
| CES20 = 68 | CES45 = 76 | CES70 = 65 | CES95 = 76 |
| CES21 = 89 | CES46 = 68 | CES71 = 64 | CES96 = 78 |
| CES22 = 81 | CES47 = 60 | CES72 = 88 | CES97 = 76 |
| CES23 = 92 | CES48 = 47 | CES73 = 59 | CES98 = 71 |
| CES24 = 92 | CES49 = 65 | CES74 = 85 | CES99 = 65 |
| CES25 = 74 | CES50 = 74 | CES75 = 66 |            |



**Color Rendition by Hue-Angle Bin**


**Measure Comparisons**



(END OF REPORT)