

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: P1050043

Luminaire Tested: **GALN-SA2C-950-U-LBC**

Issue Date: 07/10/2025



**Test Information**

Test Method: LM-79-08  
Report Number: P1050043  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/10/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2C-950-U-LBC  
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 2xLight Square PACKAGE  
90CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (28) 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8189.4 lumens  
Efficiency: N/A  
Efficacy: 85.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G2

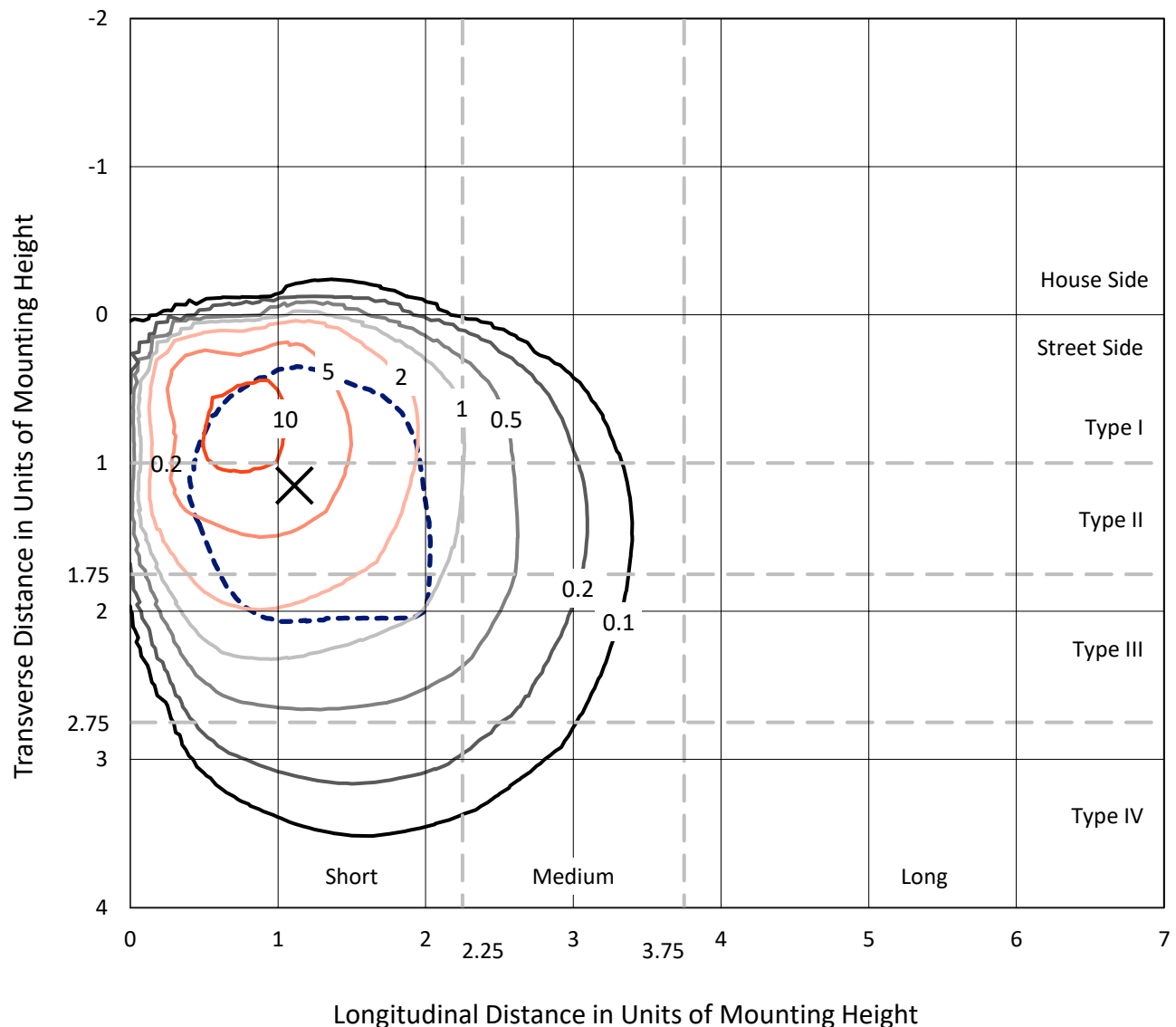
Input Watts (W): 96.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.97  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

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## Iso-Footcandle Lines of Horizontal Illumination

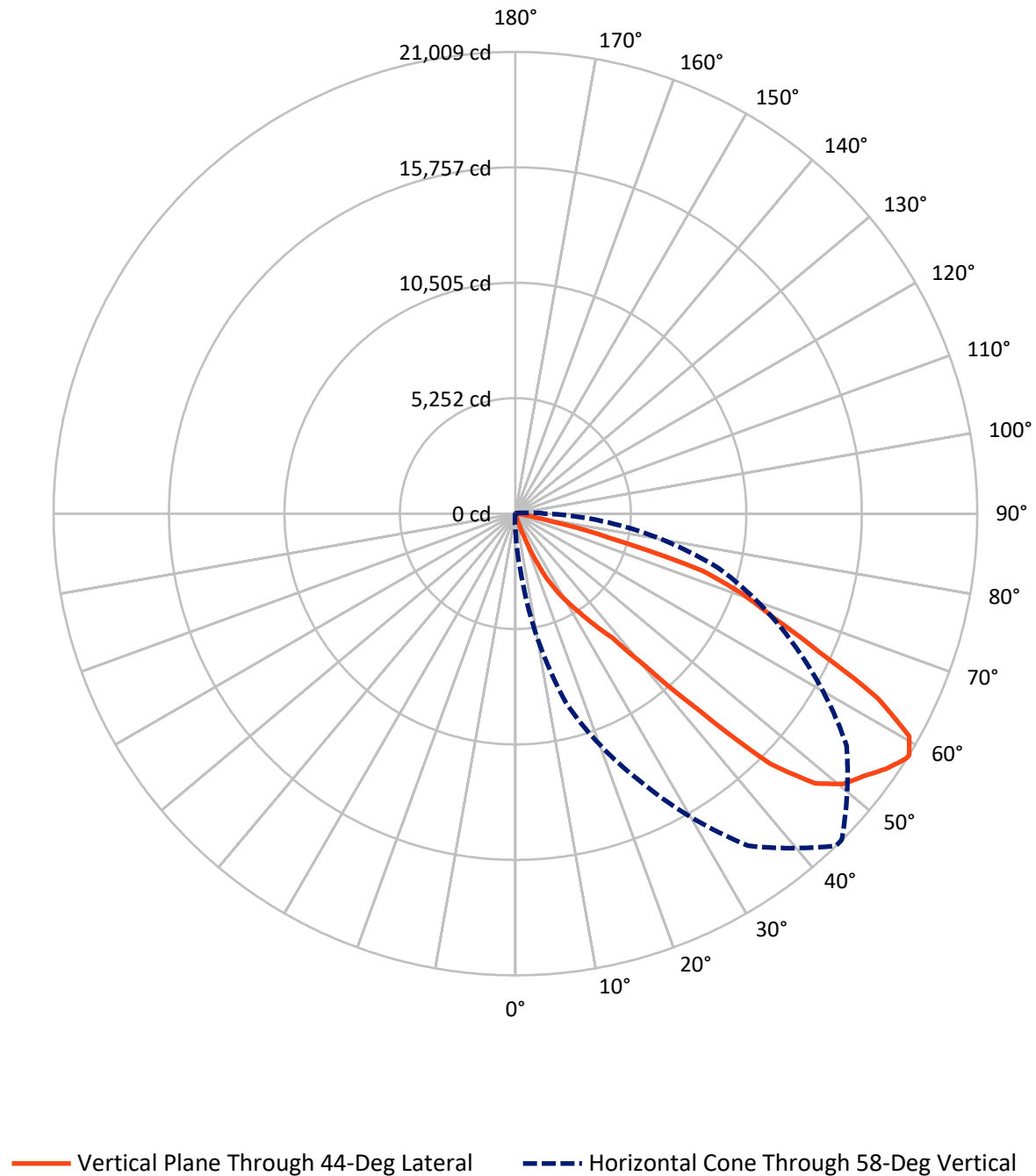
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14.3 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    | 55.9     | 0.0    | 55.9   |
|                    | % Fixture | 0.7      | 0.0    | 0.7    |
| <b>Street Side</b> | Lumens    | 8133.5   | 0.0    | 8133.5 |
|                    | % Fixture | 99.3     | 0.0    | 99.3   |
| <b>Total</b>       | Lumens    | 8189.4   | 0.0    | 8189.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 3.2    | 0.0       |
| 10°-20°   | 18.0   | 0.2       |
| 20°-30°   | 194.0  | 2.4       |
| 30°-40°   | 573.7  | 7.0       |
| 40°-50°   | 1710.1 | 20.9      |
| 50°-60°   | 2713.5 | 33.1      |
| 60°-70°   | 2263.4 | 27.6      |
| 70°-80°   | 698.1  | 8.5       |
| 80°-90°   | 15.5   | 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°    | 8189.4 | 100.0     |
| 0°-180°   | 8189.4 | 100.0     |



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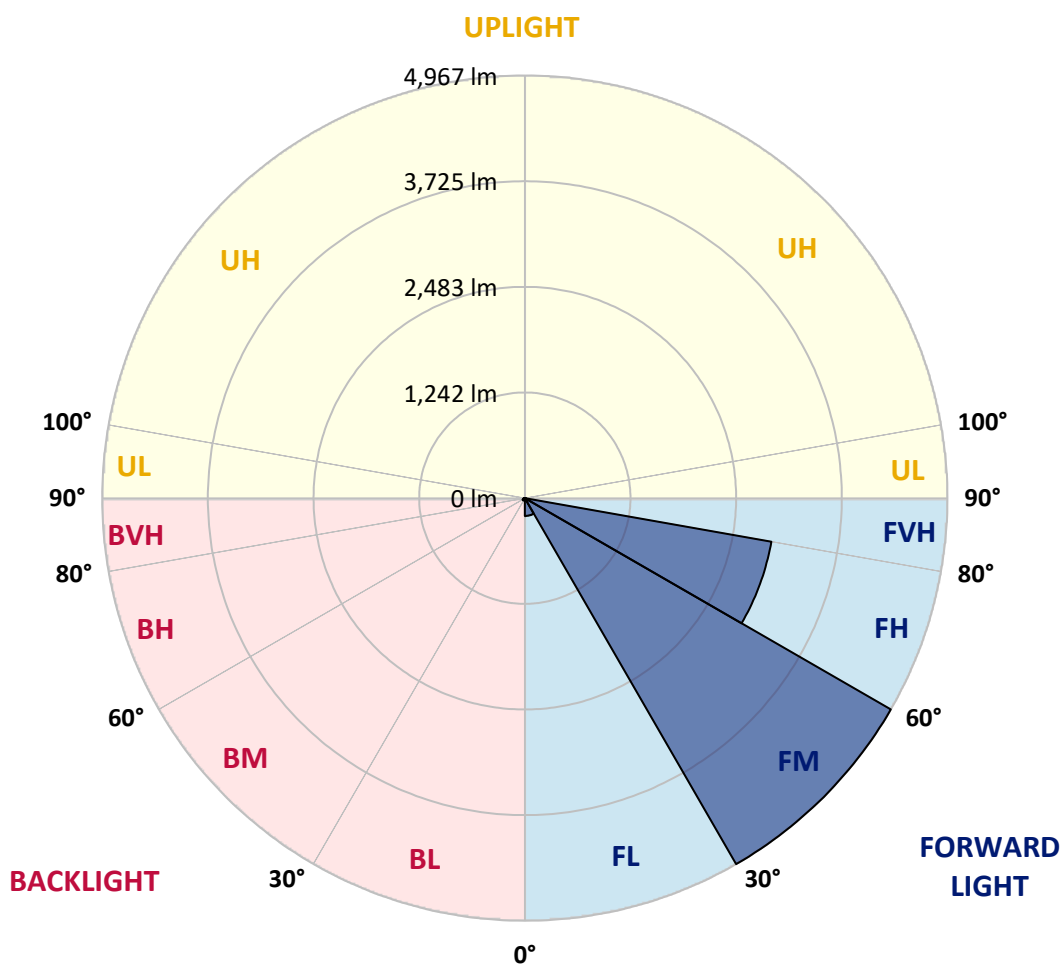
CATALOG NUMBER: GALN-SA2C-950-U-LBC

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 209.7  | 2.6       |                         |      |         |
| FM   | (30°-60°)   | 4966.7 | 60.6      |                         |      |         |
| FH   | (60°-80°)   | 2942.3 | 35.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 14.8   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 5.5    | 0.1       | B0/110                  |      |         |
| BM   | (30°-60°)   | 30.6   | 0.4       | B0/220                  |      |         |
| BH   | (60°-80°)   | 19.1   | 0.2       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.8    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°     | 15°    | 25°     | 35°     | 44°     | 45°     | 55°     | 65°     | 75°     |
|-------|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 35.9  | 35.9   | 35.9   | 35.9    | 35.9    | 35.9    | 35.9    | 35.9    | 35.9    | 35.9    |
| 2.5°  | 46.4  | 46.4   | 44.5   | 42.1    | 39.6    | 37.1    | 36.5    | 35.3    | 34.6    | 34.0    |
| 5°    | 48.3  | 48.3   | 47.6   | 45.8    | 43.3    | 41.4    | 41.4    | 39.6    | 38.4    | 37.1    |
| 7.5°  | 49.5  | 50.1   | 51.3   | 50.7    | 49.5    | 47.6    | 47.6    | 46.4    | 44.5    | 41.4    |
| 10°   | 51.3  | 53.2   | 55.7   | 56.9    | 57.5    | 57.5    | 56.9    | 56.3    | 53.2    | 48.9    |
| 12.5° | 53.2  | 56.9   | 63.1   | 69.3    | 73.0    | 77.9    | 77.3    | 76.1    | 68.1    | 58.8    |
| 15°   | 56.9  | 62.5   | 75.5   | 93.4    | 121.3   | 138.6   | 145.4   | 139.2   | 112.6   | 79.2    |
| 17.5° | 61.2  | 70.5   | 109.5  | 195.5   | 320.5   | 379.8   | 415.7   | 386.7   | 256.1   | 150.3   |
| 20°   | 65.6  | 86.0   | 203.5  | 506.7   | 831.5   | 1025.7  | 1079.5  | 995.4   | 639.1   | 286.4   |
| 22.5° | 73.0  | 120.6  | 412.6  | 1047.4  | 1791.6  | 2083.0  | 2138.0  | 1868.9  | 1207.0  | 565.4   |
| 25°   | 88.5  | 175.1  | 711.4  | 1706.8  | 2673.8  | 3165.6  | 3142.7  | 2790.1  | 1958.0  | 903.2   |
| 27.5° | 110.7 | 254.9  | 1075.8 | 2425.1  | 3518.8  | 3952.5  | 4004.5  | 3568.3  | 2610.0  | 1328.2  |
| 30°   | 142.9 | 353.2  | 1466.8 | 3000.4  | 4196.2  | 4665.2  | 4673.8  | 4222.8  | 3193.4  | 1701.3  |
| 32.5° | 173.8 | 446.0  | 1808.9 | 3556.6  | 4863.8  | 5377.8  | 5416.2  | 4861.3  | 3628.9  | 2089.8  |
| 35°   | 197.3 | 506.7  | 2155.3 | 4045.3  | 5536.8  | 6245.2  | 6242.7  | 5583.8  | 4144.9  | 2436.8  |
| 37.5° | 199.2 | 567.3  | 2469.0 | 4545.2  | 6389.3  | 7182.4  | 7261.0  | 6534.7  | 4768.5  | 2866.2  |
| 40°   | 194.9 | 635.3  | 2866.2 | 5324.6  | 7925.4  | 9142.3  | 9211.6  | 8296.0  | 6019.4  | 3601.1  |
| 42.5° | 199.8 | 753.5  | 3510.8 | 6764.2  | 10476.1 | 12223.7 | 12357.3 | 11394.7 | 8318.9  | 5100.7  |
| 45°   | 225.8 | 975.6  | 4861.3 | 9172.6  | 14111.8 | 16242.4 | 16197.9 | 14811.5 | 10994.5 | 7383.5  |
| 47.5° | 311.8 | 1519.4 | 6863.2 | 11516.6 | 16435.4 | 18332.8 | 18371.2 | 16676.7 | 12555.9 | 9138.6  |
| 50°   | 479.4 | 2324.9 | 8545.3 | 12755.7 | 17434.5 | 19338.1 | 19302.2 | 17344.2 | 13149.2 | 10002.8 |
| 52.5° | 623.6 | 2907.6 | 9389.1 | 13190.7 | 17562.6 | 19834.9 | 19832.4 | 17519.9 | 13241.4 | 10077.0 |
| 55°   | 659.5 | 2951.5 | 9395.9 | 13214.2 | 17849.6 | 20485.0 | 20566.7 | 17952.3 | 13360.8 | 9752.9  |
| 57.5° | 645.2 | 2613.1 | 9003.7 | 13350.3 | 18360.6 | 20988.0 | 20992.3 | 18371.2 | 13663.9 | 9554.3  |
| 58°   | 632.9 | 2559.9 | 8924.5 | 13427.6 | 18448.5 | 21009.0 | 20998.5 | 18390.3 | 13910.8 | 9546.9  |
| 60°   | 563.6 | 2222.8 | 8615.8 | 13624.9 | 18317.9 | 20577.2 | 20478.9 | 17971.5 | 13874.3 | 9470.8  |
| 62.5° | 442.9 | 1734.0 | 8312.1 | 13396.7 | 16918.6 | 18486.8 | 18527.7 | 15910.8 | 12648.1 | 9027.2  |
| 65°   | 352.6 | 1292.3 | 7678.6 | 11751.1 | 13931.8 | 15181.4 | 15333.6 | 12938.2 | 10557.1 | 7643.9  |
| 67.5° | 280.9 | 934.1  | 6441.3 | 9355.7  | 11024.2 | 12670.4 | 12781.1 | 10862.7 | 8179.0  | 5856.7  |
| 70°   | 228.3 | 631.6  | 4446.2 | 6842.2  | 9092.8  | 10943.8 | 10950.6 | 9024.1  | 6104.7  | 3837.4  |
| 72.5° | 202.3 | 437.4  | 2581.0 | 4990.0  | 7373.0  | 8917.7  | 8737.7  | 7322.8  | 4691.8  | 2272.9  |
| 75°   | 175.1 | 290.1  | 1265.7 | 3050.5  | 4470.3  | 4500.6  | 4569.3  | 3397.0  | 2345.3  | 1080.8  |
| 77.5° | 144.1 | 206.0  | 498.6  | 833.3   | 1340.6  | 1716.1  | 1779.8  | 1348.6  | 780.1   | 266.0   |
| 80°   | 99.0  | 97.7   | 134.2  | 255.5   | 383.6   | 480.7   | 448.5   | 347.1   | 204.2   | 102.1   |
| 82.5° | 42.7  | 46.4   | 60.6   | 73.0    | 59.4    | 57.5    | 55.1    | 35.3    | 27.2    | 21.0    |
| 85°   | 13.6  | 12.4   | 13.0   | 13.0    | 10.5    | 8.0     | 8.0     | 3.7     | 0.0     | 0.0     |
| 87.5° | 6.8   | 5.6    | 5.6    | 4.9     | 3.1     | 1.2     | 0.6     | 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° |
|--------|-------|--------|-------|------|------|------|------|------|------|------|------|
| 35.9   | 0°    | 35.9   | 35.9  | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 |
| 33.4   | 2.5°  | 32.8   | 32.8  | 31.6 | 30.3 | 29.7 | 28.5 | 27.8 | 27.2 | 26.6 | 26.0 |
| 35.9   | 5°    | 34.6   | 34.0  | 32.2 | 30.3 | 28.5 | 26.6 | 25.4 | 24.1 | 22.9 | 22.3 |
| 39.6   | 7.5°  | 37.7   | 36.5  | 32.8 | 29.7 | 27.2 | 24.7 | 23.5 | 21.7 | 20.4 | 18.6 |
| 43.9   | 10°   | 41.4   | 39.0  | 34.0 | 30.3 | 26.6 | 23.5 | 21.7 | 19.8 | 17.9 | 15.5 |
| 50.1   | 12.5° | 46.4   | 42.1  | 35.9 | 29.7 | 25.4 | 21.7 | 19.8 | 17.3 | 15.5 | 13.6 |
| 58.2   | 15°   | 50.7   | 45.2  | 36.5 | 29.7 | 24.1 | 19.8 | 17.3 | 14.8 | 13.0 | 10.5 |
| 73.0   | 17.5° | 56.9   | 47.6  | 35.9 | 27.8 | 22.3 | 17.3 | 14.8 | 13.0 | 9.9  | 6.2  |
| 108.3  | 20°   | 67.4   | 49.5  | 34.6 | 26.0 | 19.2 | 14.2 | 11.1 | 8.7  | 4.3  | 1.2  |
| 162.7  | 22.5° | 84.1   | 54.4  | 33.4 | 23.5 | 16.7 | 11.1 | 7.4  | 3.1  | 0.0  | 0.0  |
| 247.5  | 25°   | 116.3  | 63.1  | 33.4 | 22.3 | 14.8 | 8.0  | 2.5  | 0.0  | 0.0  | 0.0  |
| 351.4  | 27.5° | 154.7  | 74.9  | 33.4 | 19.2 | 11.8 | 4.3  | 0.0  | 0.0  | 0.0  | 0.0  |
| 478.8  | 30°   | 193.6  | 87.8  | 33.4 | 16.7 | 9.3  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  |
| 589.6  | 32.5° | 230.8  | 99.0  | 34.0 | 14.2 | 6.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 743.0  | 35°   | 268.5  | 100.8 | 33.4 | 12.4 | 3.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 931.1  | 37.5° | 316.7  | 97.1  | 31.6 | 11.1 | 1.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1224.9 | 40°   | 389.7  | 99.0  | 29.7 | 10.5 | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1748.9 | 42.5° | 524.6  | 107.0 | 27.2 | 10.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2785.7 | 45°   | 906.9  | 143.5 | 24.7 | 11.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 4182.0 | 47.5° | 1500.2 | 258.0 | 24.1 | 11.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5037.6 | 50°   | 1914.7 | 324.8 | 25.4 | 11.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5144.6 | 52.5° | 1911.6 | 361.9 | 26.6 | 12.4 | 2.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 4741.9 | 55°   | 1699.4 | 368.7 | 28.5 | 13.6 | 8.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 4075.0 | 57.5° | 1420.4 | 336.5 | 32.8 | 16.7 | 14.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 3970.4 | 58°   | 1370.9 | 321.7 | 34.0 | 17.3 | 16.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 3444.0 | 60°   | 1123.5 | 262.3 | 43.3 | 21.7 | 21.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2823.5 | 62.5° | 775.8  | 228.9 | 49.5 | 27.8 | 22.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2081.7 | 65°   | 548.7  | 206.6 | 53.8 | 29.7 | 17.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1479.2 | 67.5° | 410.2  | 190.5 | 59.4 | 30.3 | 9.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 928.0  | 70°   | 314.3  | 178.8 | 73.0 | 32.2 | 2.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 553.1  | 72.5° | 256.1  | 165.2 | 88.5 | 33.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 331.6  | 75°   | 212.2  | 149.1 | 85.4 | 36.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 176.9  | 77.5° | 141.1  | 115.7 | 77.9 | 36.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 63.1   | 80°   | 49.5   | 45.8  | 60.6 | 32.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 13.0   | 82.5° | 7.4    | 6.2   | 8.7  | 11.1 | 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° |
|------|-------|------|------|------|------|------|------|------|------|------|------|
| 35.9 | 0°    | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 |
| 25.4 | 2.5°  | 25.4 | 25.4 | 24.7 | 25.4 | 25.4 | 26.6 | 29.7 | 34.0 | 39.0 | 40.8 |
| 21.7 | 5°    | 21.0 | 20.4 | 19.8 | 19.8 | 19.8 | 21.7 | 24.1 | 29.1 | 34.6 | 37.1 |
| 17.9 | 7.5°  | 17.3 | 16.7 | 16.1 | 15.5 | 15.5 | 16.7 | 19.8 | 25.4 | 30.9 | 33.4 |
| 14.8 | 10°   | 14.2 | 13.0 | 12.4 | 11.8 | 11.8 | 13.0 | 16.1 | 21.7 | 27.8 | 30.3 |
| 12.4 | 12.5° | 11.8 | 9.9  | 8.7  | 8.0  | 7.4  | 9.3  | 12.4 | 17.3 | 24.1 | 27.2 |
| 9.3  | 15°   | 8.0  | 6.2  | 4.3  | 3.7  | 3.1  | 4.9  | 8.0  | 13.6 | 20.4 | 24.1 |
| 4.9  | 17.5° | 4.3  | 1.9  | 0.6  | 0.0  | 0.0  | 1.2  | 3.7  | 9.9  | 16.7 | 19.8 |
| 0.0  | 20°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.9  | 12.4 | 15.5 |
| 0.0  | 22.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.6  | 7.4  | 10.5 |
| 0.0  | 25°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.1  | 5.6  |
| 0.0  | 27.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.2  |
| 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  | 1.9  |
| 0.0  | 87.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.5  | 4.9  |
| 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: P1050043

CATALOG NUMBER: GALN-SA2C-950-U-LBC

**CANDELA DISTRIBUTION (continued):**

| 275° |       | 285° | 295° | 305° | 315° | 316° | 325° | 335° | 345° | 355°  | 360°  |
|------|-------|------|------|------|------|------|------|------|------|-------|-------|
| 35.9 | 0°    | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9  | 35.9  |
| 42.7 | 2.5°  | 43.9 | 43.3 | 42.1 | 40.8 | 40.8 | 40.8 | 42.7 | 44.5 | 46.4  | 46.4  |
| 38.4 | 5°    | 40.8 | 40.8 | 40.2 | 39.0 | 39.0 | 39.6 | 42.1 | 45.2 | 47.6  | 48.3  |
| 35.3 | 7.5°  | 37.7 | 39.0 | 37.7 | 37.1 | 37.7 | 38.4 | 40.8 | 44.5 | 48.3  | 49.5  |
| 32.8 | 10°   | 35.9 | 36.5 | 36.5 | 35.9 | 35.9 | 37.1 | 39.6 | 44.5 | 49.5  | 51.3  |
| 29.7 | 12.5° | 33.4 | 34.6 | 34.0 | 34.0 | 34.0 | 35.3 | 38.4 | 43.9 | 50.7  | 53.2  |
| 26.6 | 15°   | 30.9 | 32.8 | 32.8 | 32.2 | 32.2 | 32.8 | 37.1 | 43.3 | 52.6  | 56.9  |
| 22.9 | 17.5° | 28.5 | 30.3 | 30.9 | 29.7 | 29.7 | 30.9 | 35.3 | 43.3 | 53.8  | 61.2  |
| 18.6 | 20°   | 23.5 | 26.6 | 28.5 | 26.6 | 26.6 | 27.8 | 32.2 | 40.8 | 54.4  | 65.6  |
| 13.6 | 22.5° | 18.6 | 21.7 | 24.1 | 23.5 | 23.5 | 24.1 | 29.7 | 39.0 | 55.1  | 73.0  |
| 8.0  | 25°   | 13.6 | 16.7 | 18.6 | 19.8 | 19.8 | 21.7 | 27.2 | 37.7 | 57.5  | 88.5  |
| 3.7  | 27.5° | 8.0  | 11.8 | 14.2 | 15.5 | 16.1 | 18.6 | 25.4 | 36.5 | 61.9  | 110.7 |
| 0.0  | 30°   | 3.7  | 6.8  | 9.9  | 12.4 | 12.4 | 16.7 | 23.5 | 35.3 | 67.4  | 142.9 |
| 0.0  | 32.5° | 0.0  | 3.1  | 4.9  | 8.7  | 9.3  | 13.6 | 21.7 | 34.0 | 75.5  | 173.8 |
| 0.0  | 35°   | 0.0  | 0.0  | 2.5  | 6.8  | 6.8  | 11.1 | 19.8 | 32.8 | 87.8  | 197.3 |
| 0.0  | 37.5° | 0.0  | 0.0  | 0.0  | 4.9  | 5.6  | 9.9  | 19.2 | 32.2 | 90.3  | 199.2 |
| 0.0  | 40°   | 0.0  | 0.0  | 0.0  | 3.7  | 4.3  | 9.3  | 19.2 | 32.8 | 81.7  | 194.9 |
| 0.0  | 42.5° | 0.0  | 0.0  | 0.0  | 2.5  | 3.1  | 9.3  | 19.2 | 34.0 | 73.6  | 199.8 |
| 0.0  | 45°   | 0.0  | 0.0  | 0.0  | 1.9  | 2.5  | 9.9  | 18.6 | 33.4 | 69.3  | 225.8 |
| 0.0  | 47.5° | 0.0  | 0.0  | 0.0  | 2.5  | 3.7  | 9.9  | 17.9 | 32.8 | 69.9  | 311.8 |
| 0.0  | 50°   | 0.0  | 0.0  | 0.0  | 3.1  | 4.3  | 9.9  | 18.6 | 31.6 | 76.7  | 479.4 |
| 0.0  | 52.5° | 0.0  | 0.0  | 0.0  | 2.5  | 3.7  | 11.1 | 20.4 | 30.9 | 83.5  | 623.6 |
| 0.0  | 55°   | 0.0  | 0.0  | 0.0  | 0.6  | 1.9  | 14.2 | 22.3 | 30.9 | 94.0  | 659.5 |
| 0.0  | 57.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 16.1 | 25.4 | 32.8 | 111.4 | 645.2 |
| 0.0  | 58°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 16.1 | 26.0 | 32.8 | 112.6 | 632.9 |
| 0.0  | 60°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 16.1 | 28.5 | 36.5 | 121.3 | 563.6 |
| 0.0  | 62.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 13.6 | 34.0 | 45.8 | 126.2 | 442.9 |
| 0.0  | 65°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 11.1 | 40.2 | 50.1 | 129.9 | 352.6 |
| 0.0  | 67.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 10.5 | 41.4 | 50.7 | 131.8 | 280.9 |
| 0.0  | 70°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 11.1 | 40.8 | 54.4 | 138.0 | 228.3 |
| 0.0  | 72.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 12.4 | 37.1 | 60.0 | 138.0 | 202.3 |
| 0.0  | 75°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 13.0 | 34.6 | 67.4 | 125.6 | 175.1 |
| 0.0  | 77.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 12.4 | 34.0 | 78.6 | 112.0 | 144.1 |
| 0.0  | 80°   | 1.2  | 1.9  | 1.9  | 1.2  | 1.2  | 10.5 | 33.4 | 79.8 | 95.3  | 99.0  |
| 0.6  | 82.5° | 3.7  | 4.9  | 4.3  | 3.1  | 3.1  | 9.3  | 29.7 | 66.8 | 49.5  | 42.7  |
| 3.7  | 85°   | 6.8  | 8.0  | 8.0  | 6.8  | 6.8  | 8.7  | 18.6 | 24.1 | 16.7  | 13.6  |
| 6.8  | 87.5° | 9.3  | 10.5 | 10.5 | 9.3  | 9.3  | 8.7  | 8.0  | 7.4  | 6.8   | 6.8   |
| 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: SP1-2407-184-17

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-950-U-5WQ

Data in this report applies to families of products including GSS-SB1A-950-U-5WQ

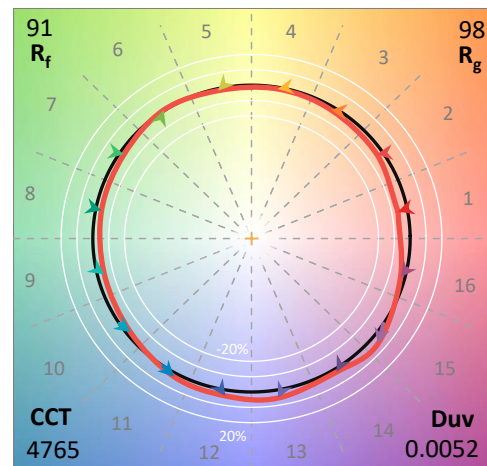
### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2407-184-17  
 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-950-U-5WQ**  
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI  
 5000K CCT 26 LEDS

### Spectral Parameters

CCT (K): 4765  
 CIE  $u'$ : 0.2105  
 CIE  $v'$ : 0.4941  
 Duv: 0.0052  
 CIE x: 0.3536  
 CIE y: 0.3689  
 CIE z: 0.2775  
 Peak Wavelength (nm): 449  
 Dominant Wavelength (nm): 571  
 Purity: 16.80041  
 R<sub>f</sub>: 90.7  
 R<sub>g</sub>: 98

CRI (Ra): 90.8  
 R1: 89.8  
 R2: 93.1  
 R3: 95.3  
 R4: 90.3  
 R5: 89.0  
 R6: 89.7  
 R7: 94.9  
 R8: 84.0  
 R9: 54.9  
 R10: 83.0  
 R11: 89.6  
 R12: 68.0  
 R13: 90.6  
 R14: 97.3  
 R15: 86.2



### Test Conditions

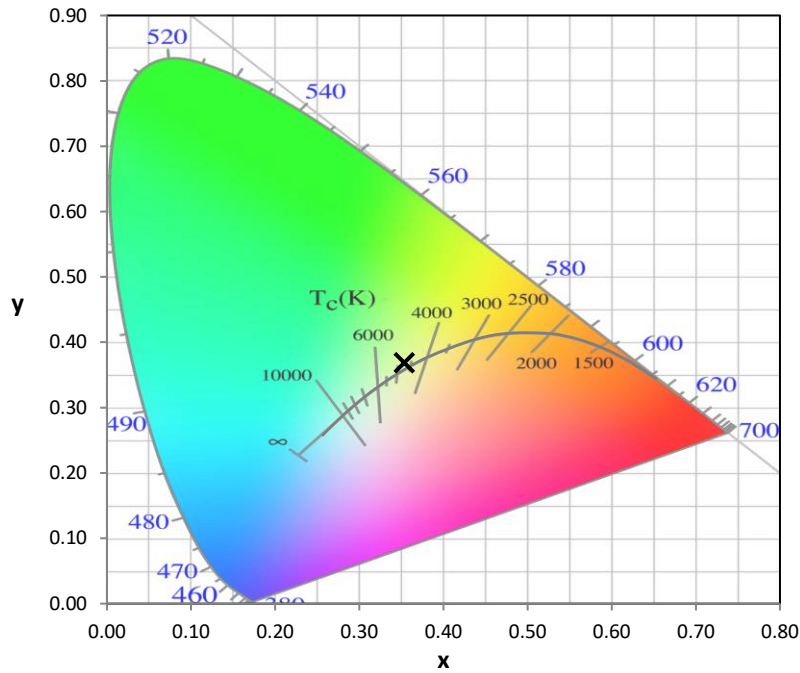
Stabilization Time: 20M  
 Operation Time: 1H 20M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-17

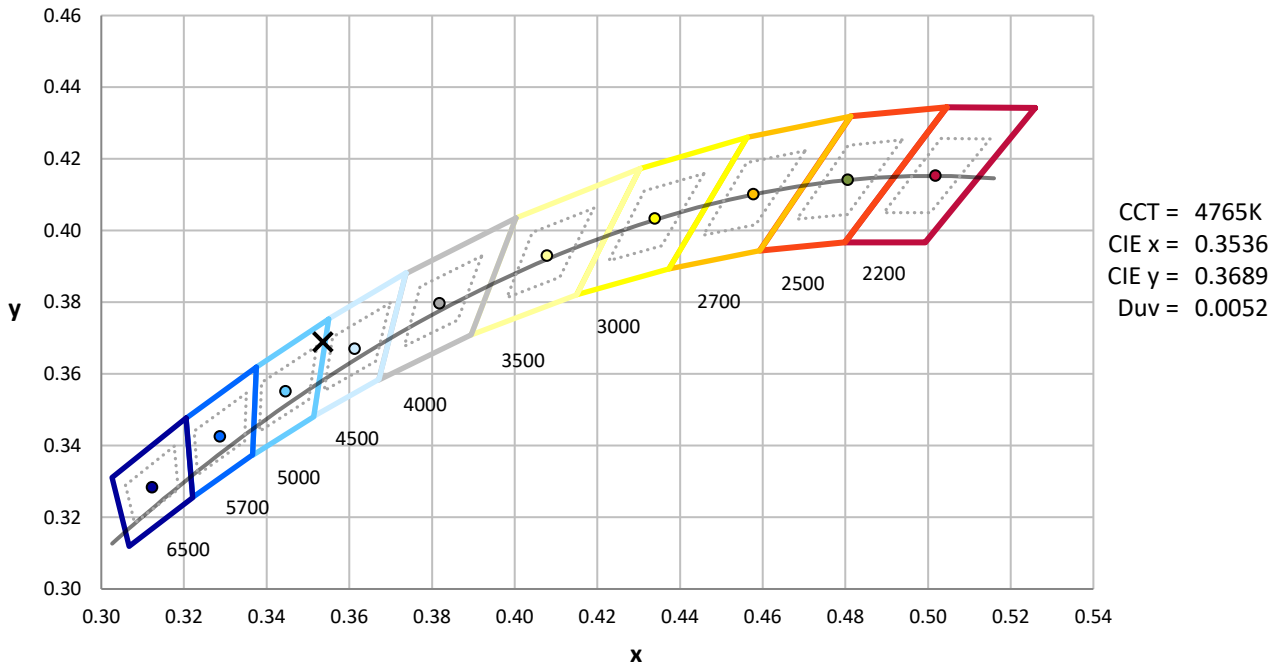
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| 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: SP1-2407-184-17

**CIE 1931 Chromaticity Diagram**



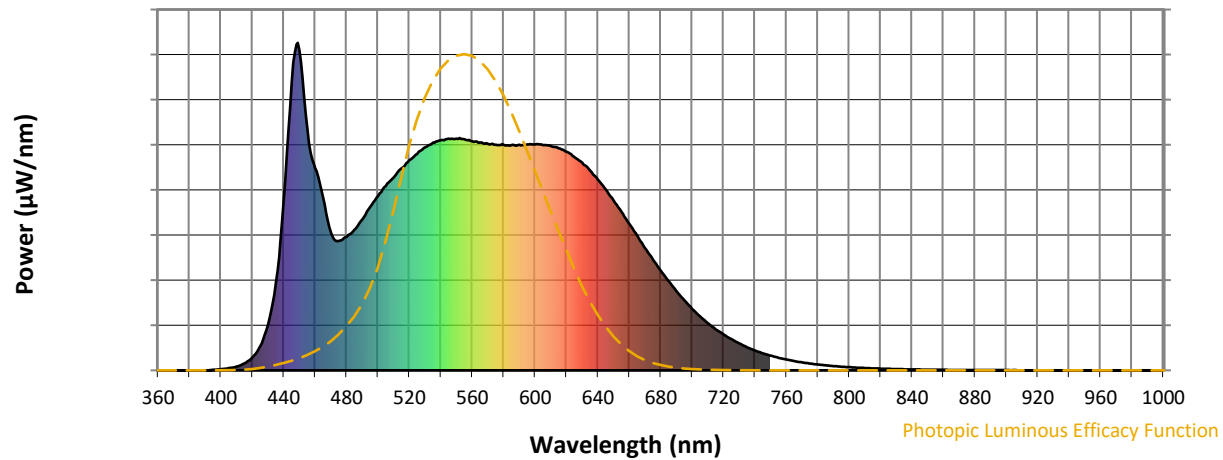
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-17

### Photopic Flux vs. Wavelength

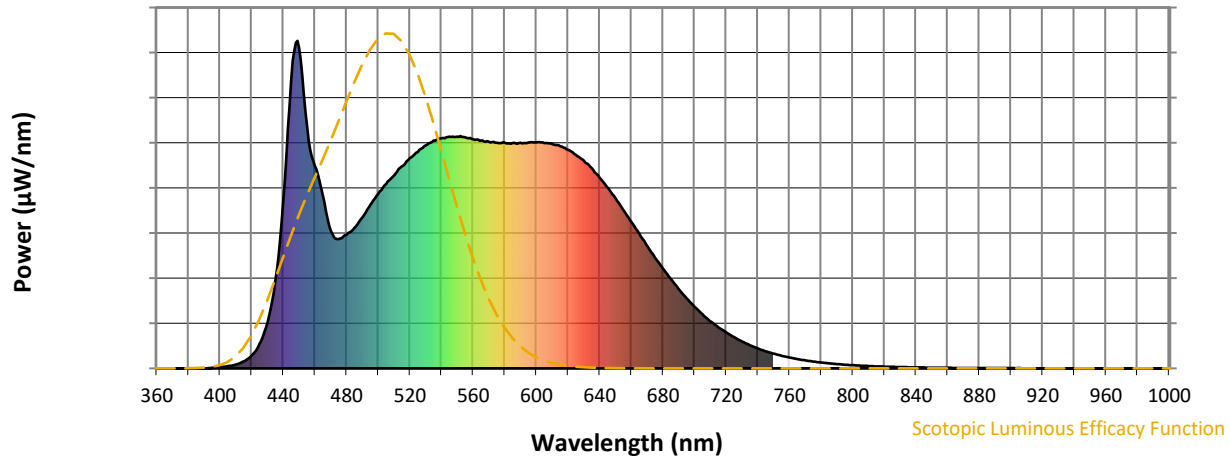


### Photopic Lumens: NR

| λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) |
|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|
| 360    | 0                        | NR            | 490    | 462                      | NR            | 620    | 668                      | NR            | 750    | 45                       | NR            | 880    | 1                        | NR            |
| 365    | 0                        | NR            | 495    | 498                      | NR            | 625    | 652                      | NR            | 755    | 39                       | NR            | 885    | 1                        | NR            |
| 370    | 0                        | NR            | 500    | 533                      | NR            | 630    | 634                      | NR            | 760    | 33                       | NR            | 890    | 1                        | NR            |
| 375    | 0                        | NR            | 505    | 562                      | NR            | 635    | 610                      | NR            | 765    | 28                       | NR            | 895    | 1                        | NR            |
| 380    | 0                        | NR            | 510    | 590                      | NR            | 640    | 583                      | NR            | 770    | 24                       | NR            | 900    | 1                        | NR            |
| 385    | 0                        | NR            | 515    | 617                      | NR            | 645    | 552                      | NR            | 775    | 21                       | NR            | 905    | 1                        | NR            |
| 390    | 0                        | NR            | 520    | 642                      | NR            | 650    | 519                      | NR            | 780    | 18                       | NR            | 910    | 0                        | NR            |
| 395    | 2                        | NR            | 525    | 661                      | NR            | 655    | 484                      | NR            | 785    | 15                       | NR            | 915    | 0                        | NR            |
| 400    | 4                        | NR            | 530    | 681                      | NR            | 660    | 448                      | NR            | 790    | 13                       | NR            | 920    | 0                        | NR            |
| 405    | 7                        | NR            | 535    | 695                      | NR            | 665    | 411                      | NR            | 795    | 11                       | NR            | 925    | 0                        | NR            |
| 410    | 12                       | NR            | 540    | 702                      | NR            | 670    | 373                      | NR            | 800    | 10                       | NR            | 930    | 0                        | NR            |
| 415    | 21                       | NR            | 545    | 708                      | NR            | 675    | 338                      | NR            | 805    | 8                        | NR            | 935    | 0                        | NR            |
| 420    | 39                       | NR            | 550    | 707                      | NR            | 680    | 305                      | NR            | 810    | 7                        | NR            | 940    | 0                        | NR            |
| 425    | 74                       | NR            | 555    | 706                      | NR            | 685    | 272                      | NR            | 815    | 6                        | NR            | 945    | 0                        | NR            |
| 430    | 139                      | NR            | 560    | 700                      | NR            | 690    | 243                      | NR            | 820    | 5                        | NR            | 950    | 0                        | NR            |
| 435    | 270                      | NR            | 565    | 696                      | NR            | 695    | 214                      | NR            | 825    | 5                        | NR            | 955    | 0                        | NR            |
| 440    | 517                      | NR            | 570    | 692                      | NR            | 700    | 188                      | NR            | 830    | 4                        | NR            | 960    | 0                        | NR            |
| 445    | 877                      | NR            | 575    | 689                      | NR            | 705    | 165                      | NR            | 835    | 3                        | NR            | 965    | 0                        | NR            |
| 450    | 978                      | NR            | 580    | 688                      | NR            | 710    | 144                      | NR            | 840    | 3                        | NR            | 970    | 0                        | NR            |
| 455    | 738                      | NR            | 585    | 688                      | NR            | 715    | 125                      | NR            | 845    | 3                        | NR            | 975    | 0                        | NR            |
| 460    | 618                      | NR            | 590    | 689                      | NR            | 720    | 110                      | NR            | 850    | 2                        | NR            | 980    | 0                        | NR            |
| 465    | 529                      | NR            | 595    | 690                      | NR            | 725    | 95                       | NR            | 855    | 2                        | NR            | 985    | 0                        | NR            |
| 470    | 420                      | NR            | 600    | 690                      | NR            | 730    | 82                       | NR            | 860    | 2                        | NR            | 990    | 0                        | NR            |
| 475    | 395                      | NR            | 605    | 688                      | NR            | 735    | 71                       | NR            | 865    | 1                        | NR            | 995    | 0                        | NR            |
| 480    | 408                      | NR            | 610    | 685                      | NR            | 740    | 61                       | NR            | 870    | 1                        | NR            | 1000   | 0                        | NR            |
| 485    | 429                      | NR            | 615    | 678                      | NR            | 745    | 52                       | NR            | 875    | 1                        | NR            |        |                          |               |

REPORT NUMBER: SP1-2407-184-17

### Scotopic Flux vs. Wavelength



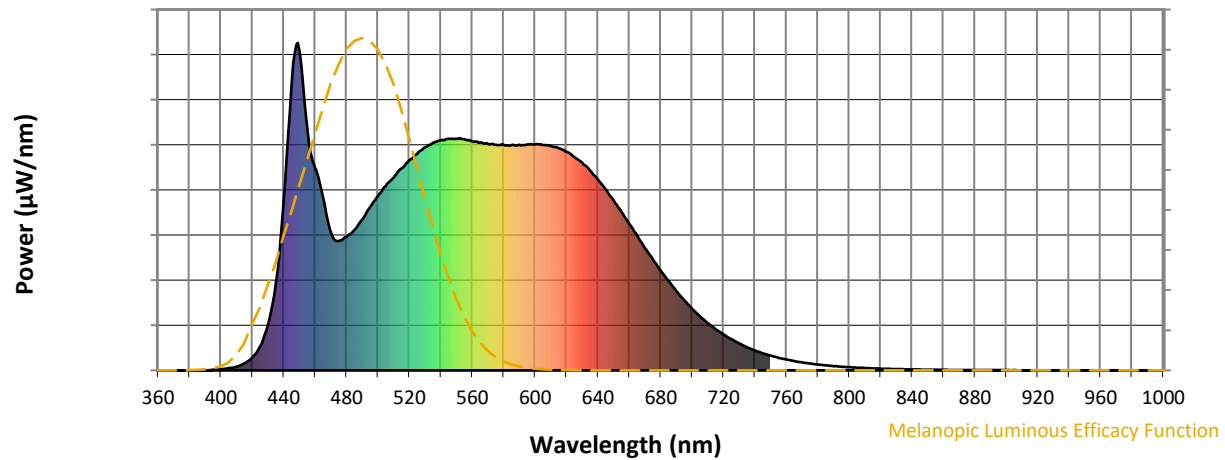
Scotopic Lumens: NR

S/P: 1.99

| λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) |
|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|
| 360    | 0                        | NR            | 490    | 462                      | NR            | 620    | 668                      | NR            | 750    | 45                       | NR            | 880    | 1                        | NR            |
| 365    | 0                        | NR            | 495    | 498                      | NR            | 625    | 652                      | NR            | 755    | 39                       | NR            | 885    | 1                        | NR            |
| 370    | 0                        | NR            | 500    | 533                      | NR            | 630    | 634                      | NR            | 760    | 33                       | NR            | 890    | 1                        | NR            |
| 375    | 0                        | NR            | 505    | 562                      | NR            | 635    | 610                      | NR            | 765    | 28                       | NR            | 895    | 1                        | NR            |
| 380    | 0                        | NR            | 510    | 590                      | NR            | 640    | 583                      | NR            | 770    | 24                       | NR            | 900    | 1                        | NR            |
| 385    | 0                        | NR            | 515    | 617                      | NR            | 645    | 552                      | NR            | 775    | 21                       | NR            | 905    | 1                        | NR            |
| 390    | 0                        | NR            | 520    | 642                      | NR            | 650    | 519                      | NR            | 780    | 18                       | NR            | 910    | 0                        | NR            |
| 395    | 2                        | NR            | 525    | 661                      | NR            | 655    | 484                      | NR            | 785    | 15                       | NR            | 915    | 0                        | NR            |
| 400    | 4                        | NR            | 530    | 681                      | NR            | 660    | 448                      | NR            | 790    | 13                       | NR            | 920    | 0                        | NR            |
| 405    | 7                        | NR            | 535    | 695                      | NR            | 665    | 411                      | NR            | 795    | 11                       | NR            | 925    | 0                        | NR            |
| 410    | 12                       | NR            | 540    | 702                      | NR            | 670    | 373                      | NR            | 800    | 10                       | NR            | 930    | 0                        | NR            |
| 415    | 21                       | NR            | 545    | 708                      | NR            | 675    | 338                      | NR            | 805    | 8                        | NR            | 935    | 0                        | NR            |
| 420    | 39                       | NR            | 550    | 707                      | NR            | 680    | 305                      | NR            | 810    | 7                        | NR            | 940    | 0                        | NR            |
| 425    | 74                       | NR            | 555    | 706                      | NR            | 685    | 272                      | NR            | 815    | 6                        | NR            | 945    | 0                        | NR            |
| 430    | 139                      | NR            | 560    | 700                      | NR            | 690    | 243                      | NR            | 820    | 5                        | NR            | 950    | 0                        | NR            |
| 435    | 270                      | NR            | 565    | 696                      | NR            | 695    | 214                      | NR            | 825    | 5                        | NR            | 955    | 0                        | NR            |
| 440    | 517                      | NR            | 570    | 692                      | NR            | 700    | 188                      | NR            | 830    | 4                        | NR            | 960    | 0                        | NR            |
| 445    | 877                      | NR            | 575    | 689                      | NR            | 705    | 165                      | NR            | 835    | 3                        | NR            | 965    | 0                        | NR            |
| 450    | 978                      | NR            | 580    | 688                      | NR            | 710    | 144                      | NR            | 840    | 3                        | NR            | 970    | 0                        | NR            |
| 455    | 738                      | NR            | 585    | 688                      | NR            | 715    | 125                      | NR            | 845    | 3                        | NR            | 975    | 0                        | NR            |
| 460    | 618                      | NR            | 590    | 689                      | NR            | 720    | 110                      | NR            | 850    | 2                        | NR            | 980    | 0                        | NR            |
| 465    | 529                      | NR            | 595    | 690                      | NR            | 725    | 95                       | NR            | 855    | 2                        | NR            | 985    | 0                        | NR            |
| 470    | 420                      | NR            | 600    | 690                      | NR            | 730    | 82                       | NR            | 860    | 2                        | NR            | 990    | 0                        | NR            |
| 475    | 395                      | NR            | 605    | 688                      | NR            | 735    | 71                       | NR            | 865    | 1                        | NR            | 995    | 0                        | NR            |
| 480    | 408                      | NR            | 610    | 685                      | NR            | 740    | 61                       | NR            | 870    | 1                        | NR            | 1000   | 0                        | NR            |
| 485    | 429                      | NR            | 615    | 678                      | NR            | 745    | 52                       | NR            | 875    | 1                        | NR            |        |                          |               |

REPORT NUMBER: SP1-2407-184-17

### Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 4.22

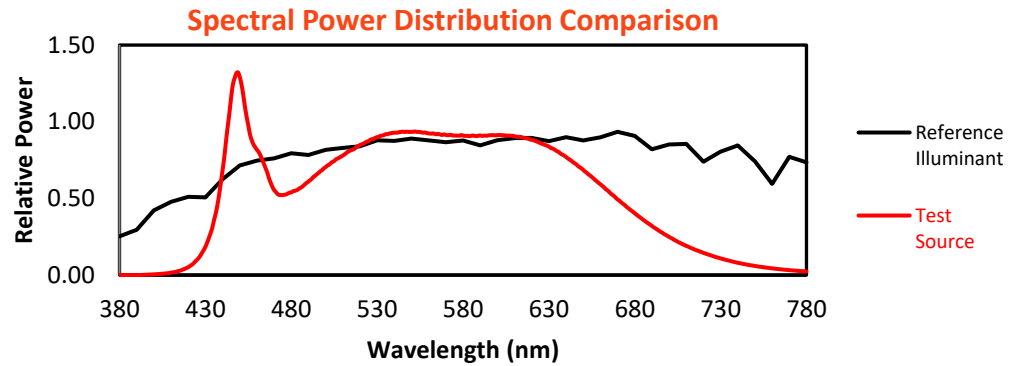
| $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | 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               | 462                                    | NR                             | 620               | 668                                    | NR                             | 750               | 45                                     | NR                             | 880               | 1                                      | NR                             |
| 365               | 0                                      | NR                             | 495               | 498                                    | NR                             | 625               | 652                                    | NR                             | 755               | 39                                     | NR                             | 885               | 1                                      | NR                             |
| 370               | 0                                      | NR                             | 500               | 533                                    | NR                             | 630               | 634                                    | NR                             | 760               | 33                                     | NR                             | 890               | 1                                      | NR                             |
| 375               | 0                                      | NR                             | 505               | 562                                    | NR                             | 635               | 610                                    | NR                             | 765               | 28                                     | NR                             | 895               | 1                                      | NR                             |
| 380               | 0                                      | NR                             | 510               | 590                                    | NR                             | 640               | 583                                    | NR                             | 770               | 24                                     | NR                             | 900               | 1                                      | NR                             |
| 385               | 0                                      | NR                             | 515               | 617                                    | NR                             | 645               | 552                                    | NR                             | 775               | 21                                     | NR                             | 905               | 1                                      | NR                             |
| 390               | 0                                      | NR                             | 520               | 642                                    | NR                             | 650               | 519                                    | NR                             | 780               | 18                                     | NR                             | 910               | 0                                      | NR                             |
| 395               | 2                                      | NR                             | 525               | 661                                    | NR                             | 655               | 484                                    | NR                             | 785               | 15                                     | NR                             | 915               | 0                                      | NR                             |
| 400               | 4                                      | NR                             | 530               | 681                                    | NR                             | 660               | 448                                    | NR                             | 790               | 13                                     | NR                             | 920               | 0                                      | NR                             |
| 405               | 7                                      | NR                             | 535               | 695                                    | NR                             | 665               | 411                                    | NR                             | 795               | 11                                     | NR                             | 925               | 0                                      | NR                             |
| 410               | 12                                     | NR                             | 540               | 702                                    | NR                             | 670               | 373                                    | NR                             | 800               | 10                                     | NR                             | 930               | 0                                      | NR                             |
| 415               | 21                                     | NR                             | 545               | 708                                    | NR                             | 675               | 338                                    | NR                             | 805               | 8                                      | NR                             | 935               | 0                                      | NR                             |
| 420               | 39                                     | NR                             | 550               | 707                                    | NR                             | 680               | 305                                    | NR                             | 810               | 7                                      | NR                             | 940               | 0                                      | NR                             |
| 425               | 74                                     | NR                             | 555               | 706                                    | NR                             | 685               | 272                                    | NR                             | 815               | 6                                      | NR                             | 945               | 0                                      | NR                             |
| 430               | 139                                    | NR                             | 560               | 700                                    | NR                             | 690               | 243                                    | NR                             | 820               | 5                                      | NR                             | 950               | 0                                      | NR                             |
| 435               | 270                                    | NR                             | 565               | 696                                    | NR                             | 695               | 214                                    | NR                             | 825               | 5                                      | NR                             | 955               | 0                                      | NR                             |
| 440               | 517                                    | NR                             | 570               | 692                                    | NR                             | 700               | 188                                    | NR                             | 830               | 4                                      | NR                             | 960               | 0                                      | NR                             |
| 445               | 877                                    | NR                             | 575               | 689                                    | NR                             | 705               | 165                                    | NR                             | 835               | 3                                      | NR                             | 965               | 0                                      | NR                             |
| 450               | 978                                    | NR                             | 580               | 688                                    | NR                             | 710               | 144                                    | NR                             | 840               | 3                                      | NR                             | 970               | 0                                      | NR                             |
| 455               | 738                                    | NR                             | 585               | 688                                    | NR                             | 715               | 125                                    | NR                             | 845               | 3                                      | NR                             | 975               | 0                                      | NR                             |
| 460               | 618                                    | NR                             | 590               | 689                                    | NR                             | 720               | 110                                    | NR                             | 850               | 2                                      | NR                             | 980               | 0                                      | NR                             |
| 465               | 529                                    | NR                             | 595               | 690                                    | NR                             | 725               | 95                                     | NR                             | 855               | 2                                      | NR                             | 985               | 0                                      | NR                             |
| 470               | 420                                    | NR                             | 600               | 690                                    | NR                             | 730               | 82                                     | NR                             | 860               | 2                                      | NR                             | 990               | 0                                      | NR                             |
| 475               | 395                                    | NR                             | 605               | 688                                    | NR                             | 735               | 71                                     | NR                             | 865               | 1                                      | NR                             | 995               | 0                                      | NR                             |
| 480               | 408                                    | NR                             | 610               | 685                                    | NR                             | 740               | 61                                     | NR                             | 870               | 1                                      | NR                             | 1000              | 0                                      | NR                             |
| 485               | 429                                    | NR                             | 615               | 678                                    | NR                             | 745               | 52                                     | NR                             | 875               | 1                                      | NR                             |                   |                                        |                                |

REPORT NUMBER: SP1-2407-184-17

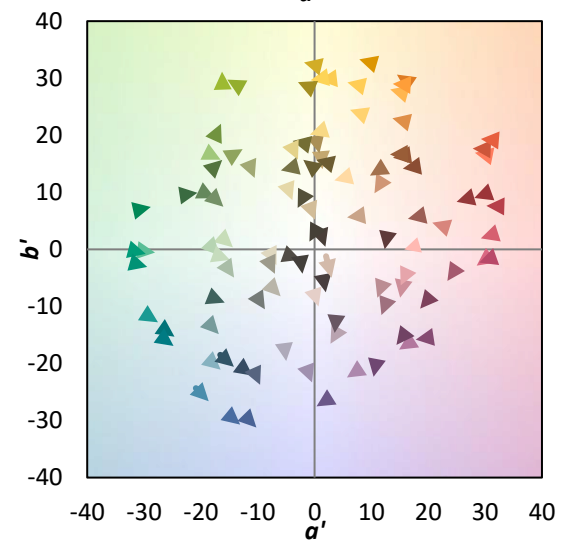
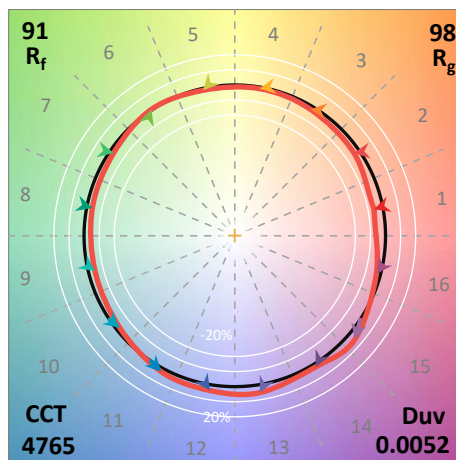
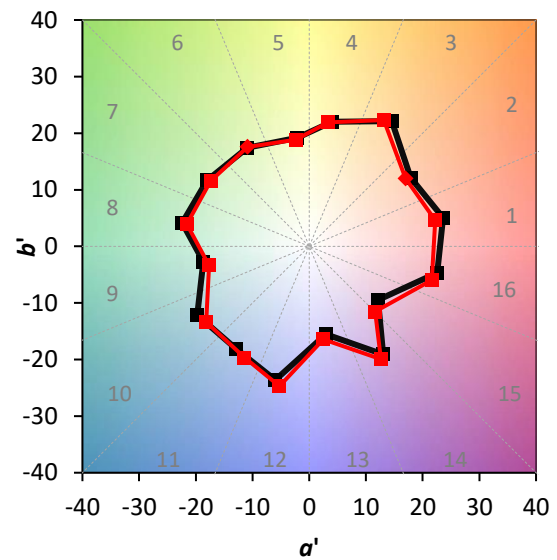
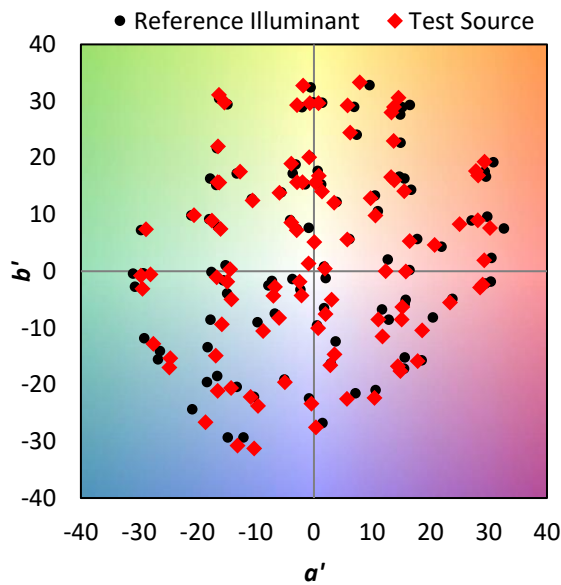
TM-30-18

### Summary

$R_f = 90.7$   
 $R_g = 98$   
 CIE  $R_a = 90.8$   
 $R_9 = 54.9$

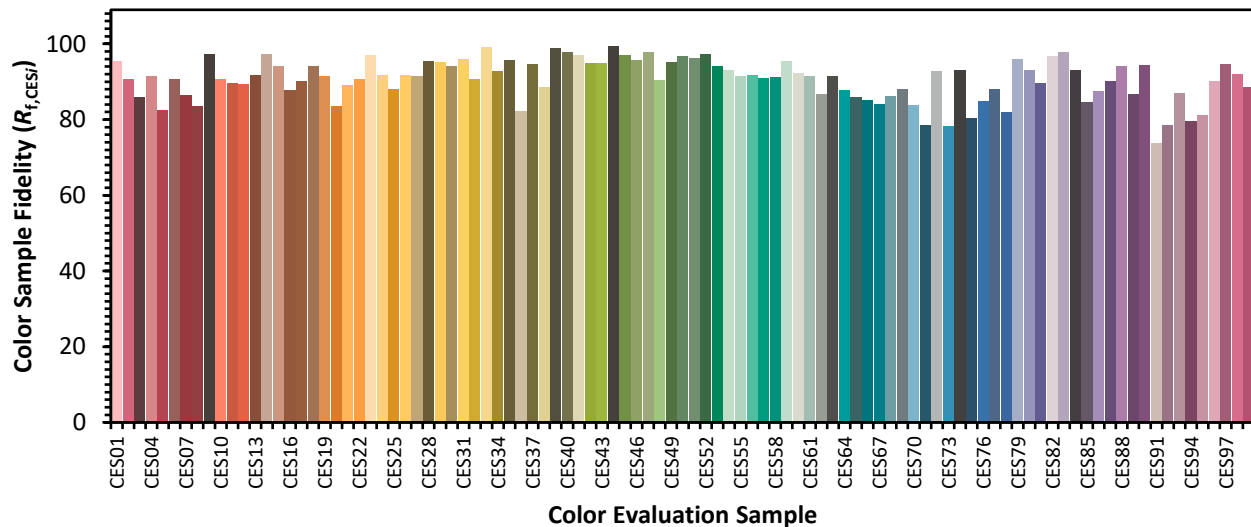


### Color Vector Graphics

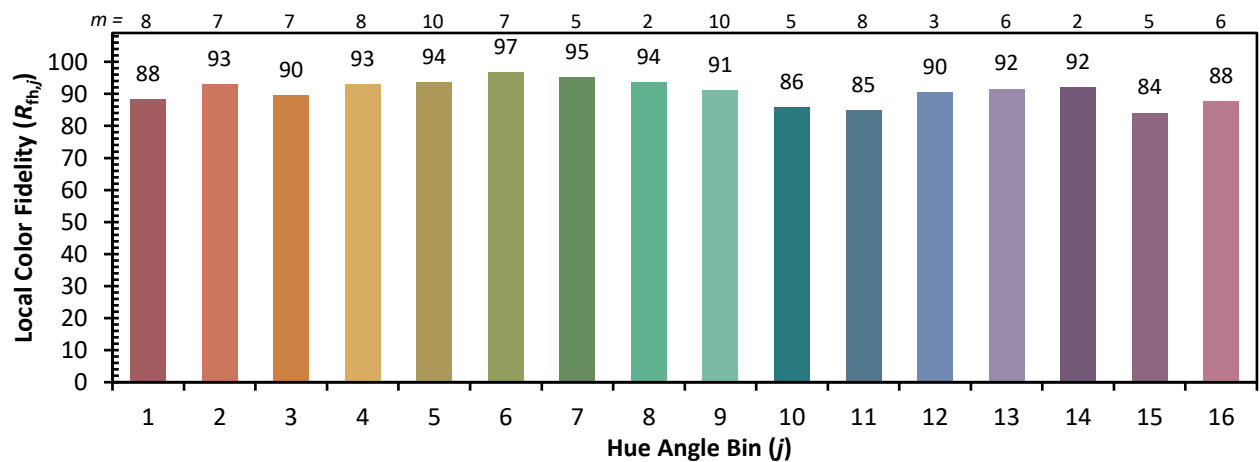
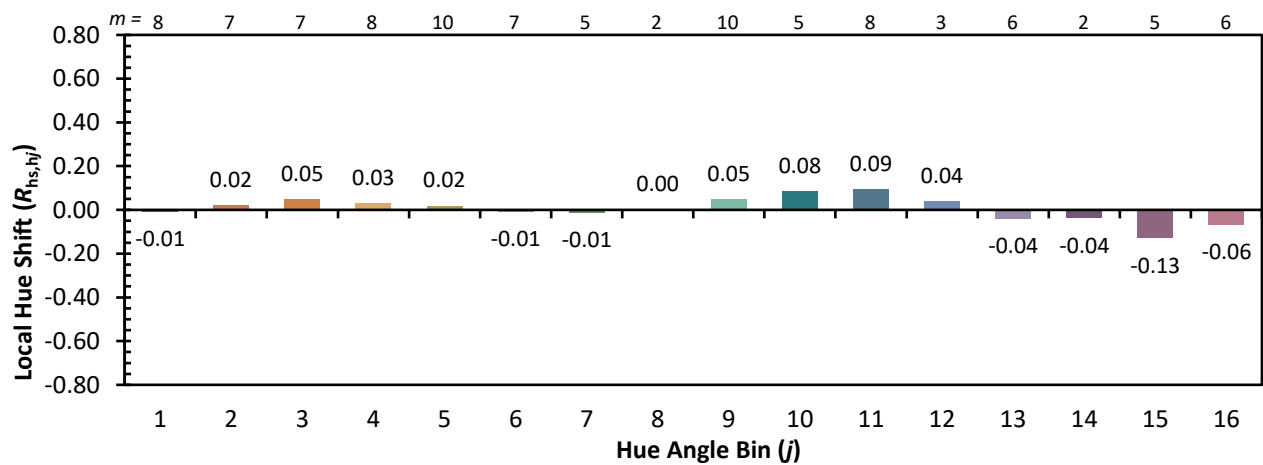
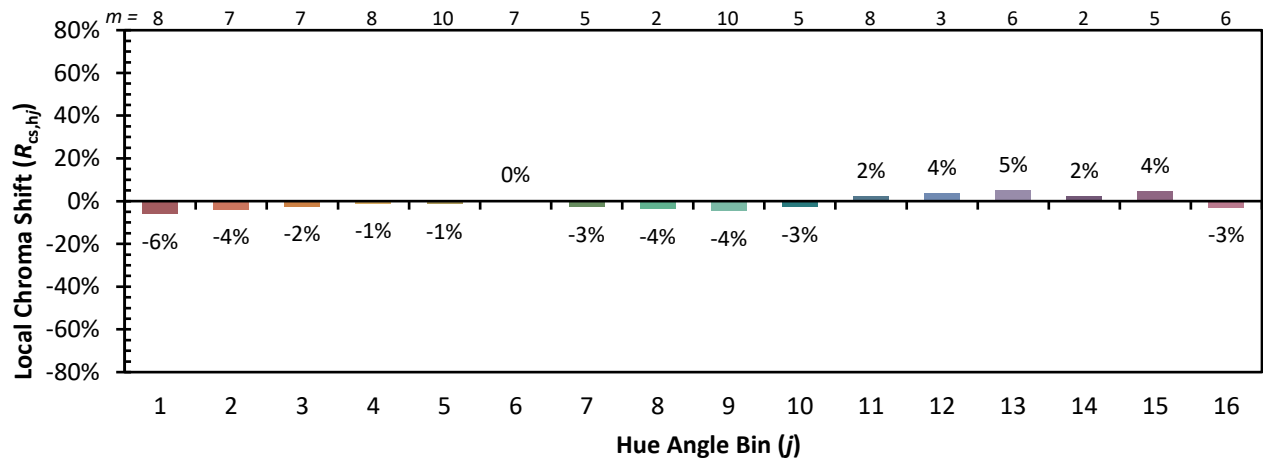


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

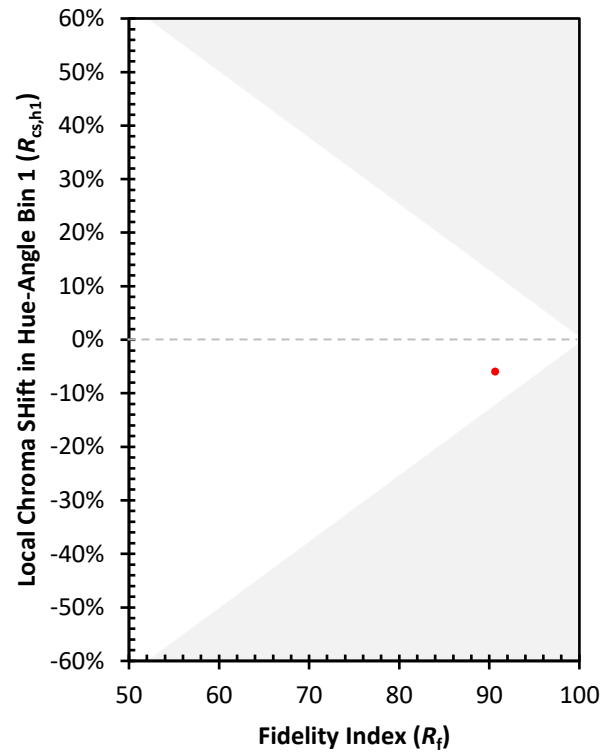
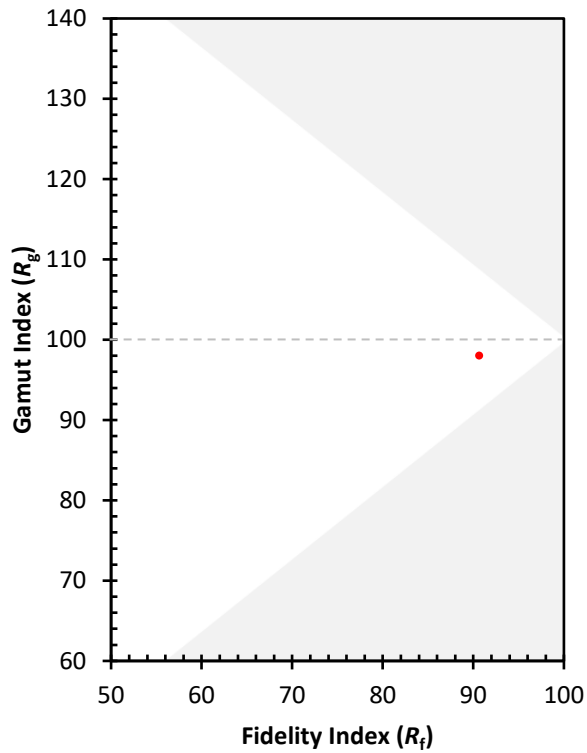
|            |             |            |            |
|------------|-------------|------------|------------|
| CES01 = 85 | CES26 = 92  | CES51 = 96 | CES76 = 85 |
| CES02 = 60 | CES27 = 92  | CES52 = 97 | CES77 = 88 |
| CES03 = 31 | CES28 = 95  | CES53 = 94 | CES78 = 82 |
| CES04 = 69 | CES29 = 95  | CES54 = 93 | CES79 = 96 |
| CES05 = 48 | CES30 = 94  | CES55 = 92 | CES80 = 93 |
| CES06 = 50 | CES31 = 96  | CES56 = 92 | CES81 = 89 |
| CES07 = 41 | CES32 = 91  | CES57 = 91 | CES82 = 97 |
| CES08 = 40 | CES33 = 99  | CES58 = 91 | CES83 = 98 |
| CES09 = 29 | CES34 = 93  | CES59 = 95 | CES84 = 93 |
| CES10 = 73 | CES35 = 96  | CES60 = 92 | CES85 = 85 |
| CES11 = 56 | CES36 = 82  | CES61 = 92 | CES86 = 88 |
| CES12 = 62 | CES37 = 95  | CES62 = 87 | CES87 = 90 |
| CES13 = 42 | CES38 = 89  | CES63 = 91 | CES88 = 94 |
| CES14 = 74 | CES39 = 99  | CES64 = 88 | CES89 = 87 |
| CES15 = 71 | CES40 = 98  | CES65 = 86 | CES90 = 94 |
| CES16 = 46 | CES41 = 97  | CES66 = 85 | CES91 = 74 |
| CES17 = 48 | CES42 = 95  | CES67 = 84 | CES92 = 78 |
| CES18 = 56 | CES43 = 95  | CES68 = 86 | CES93 = 87 |
| CES19 = 70 | CES44 = 100 | CES69 = 88 | CES94 = 80 |
| CES20 = 65 | CES45 = 97  | CES70 = 84 | CES95 = 81 |
| CES21 = 85 | CES46 = 96  | CES71 = 79 | CES96 = 90 |
| CES22 = 77 | CES47 = 98  | CES72 = 93 | CES97 = 95 |
| CES23 = 91 | CES48 = 90  | CES73 = 78 | CES98 = 92 |
| CES24 = 90 | CES49 = 95  | CES74 = 93 | CES99 = 88 |
| CES25 = 70 | CES50 = 97  | CES75 = 80 |            |



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)