

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: STREETWORKS

Report Number: P1057708

Luminaire Tested: **GAP-SA2A-827-U-RBC**

Issue Date: 08/07/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1057708  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 08/07/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAP-SA2A-827-U-RBC  
Description: GALLEON PEDESTRAIAN COMPANION 615mA 2xLight Square PACKAGE 80CRI  
2700K FIXTURE w/ RIGHT CORNER BACKLIGHT CONTROL  
Light Source: (28) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4543.7 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Luminous Opening: Rectangular (W 1.33' x L: 0.67' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G1

Input Watts (W): 55.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

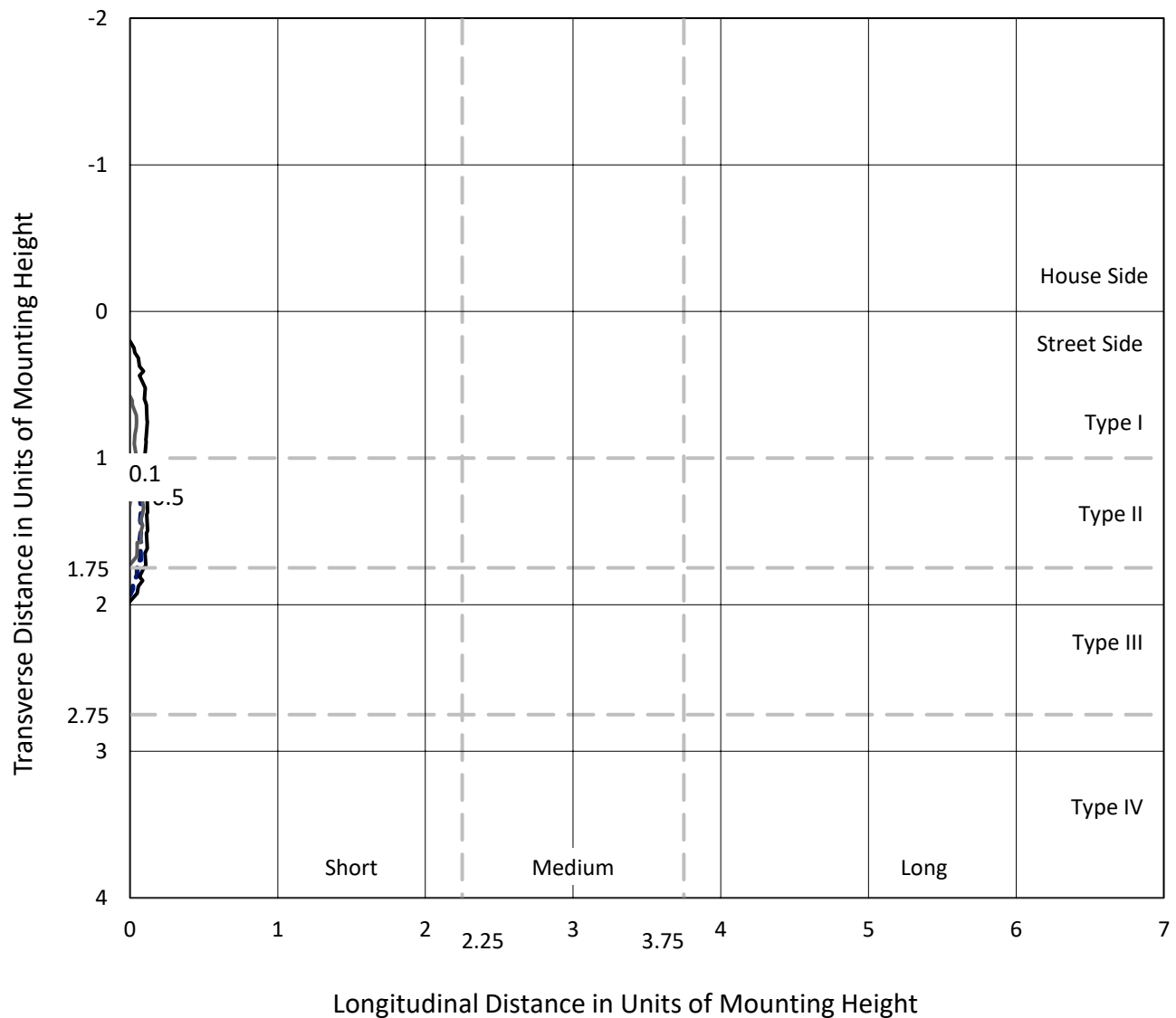


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

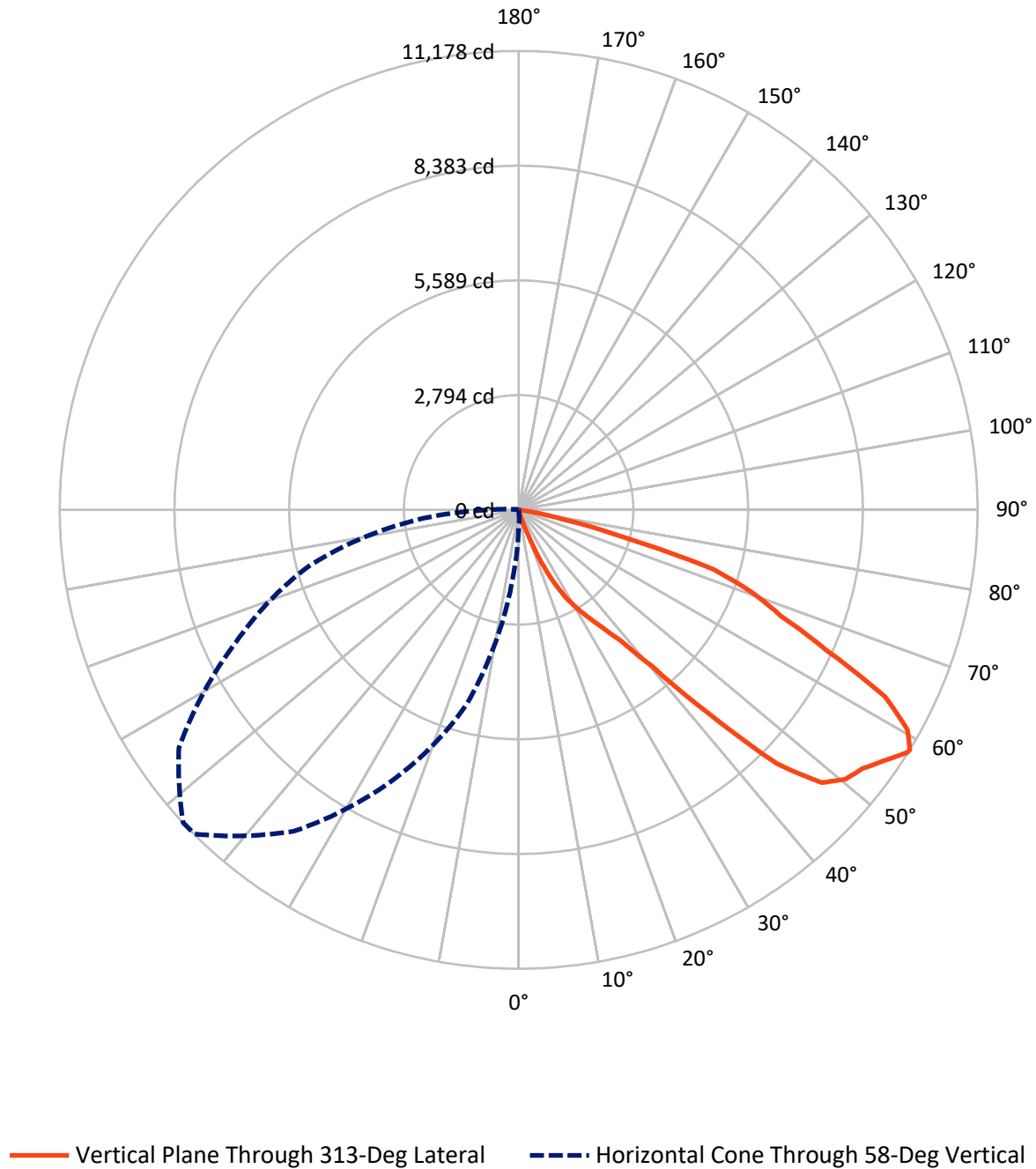


Based on 15 foot mounting height. Maximum calculated value = 0.5 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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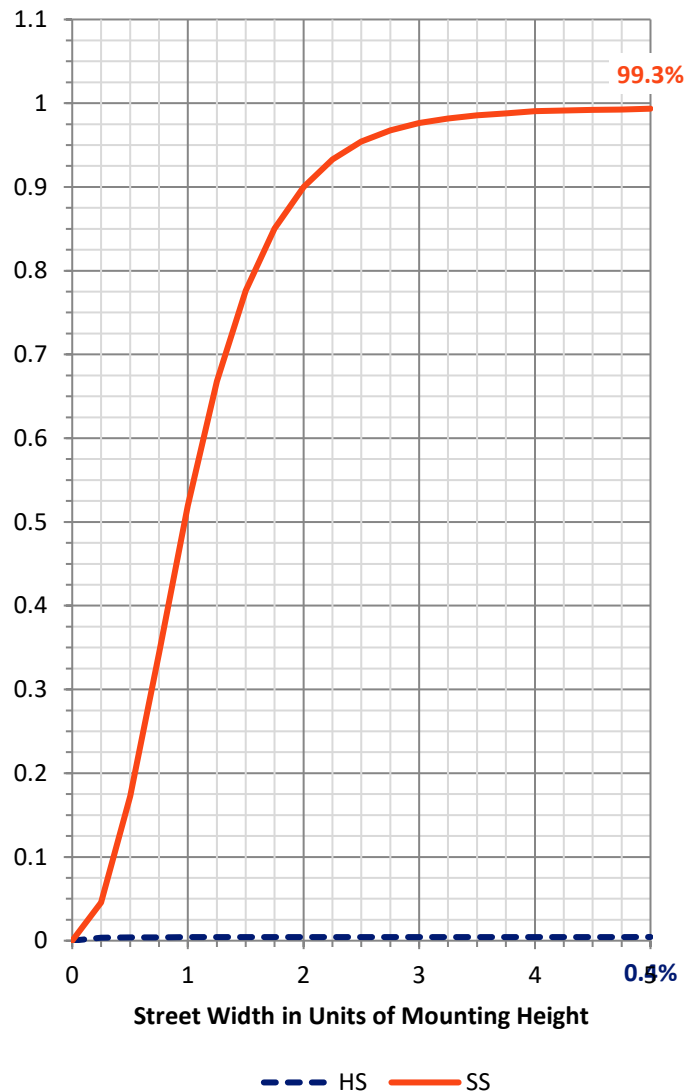
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 20.3     | 0.0    | 20.3   |
|                    | % Fixture | 0.4      | 0.0    | 0.4    |
| <b>Street Side</b> | Lumens    | 4523.4   | 0.0    | 4523.4 |
|                    | % Fixture | 99.6     | 0.0    | 99.6   |
| <b>Total</b>       | Lumens    | 4543.7   | 0.0    | 4543.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.7    | 0.0       |
| 10°-20°   | 7.9    | 0.2       |
| 20°-30°   | 114.7  | 2.5       |
| 30°-40°   | 329.9  | 7.3       |
| 40°-50°   | 939.7  | 20.7      |
| 50°-60°   | 1478.1 | 32.5      |
| 60°-70°   | 1260.5 | 27.7      |
| 70°-80°   | 402.1  | 8.8       |
| 80°-90°   | 10.2   | 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°    | 4543.7 | 100.0     |
| 0°-180°   | 4543.7 | 100.0     |



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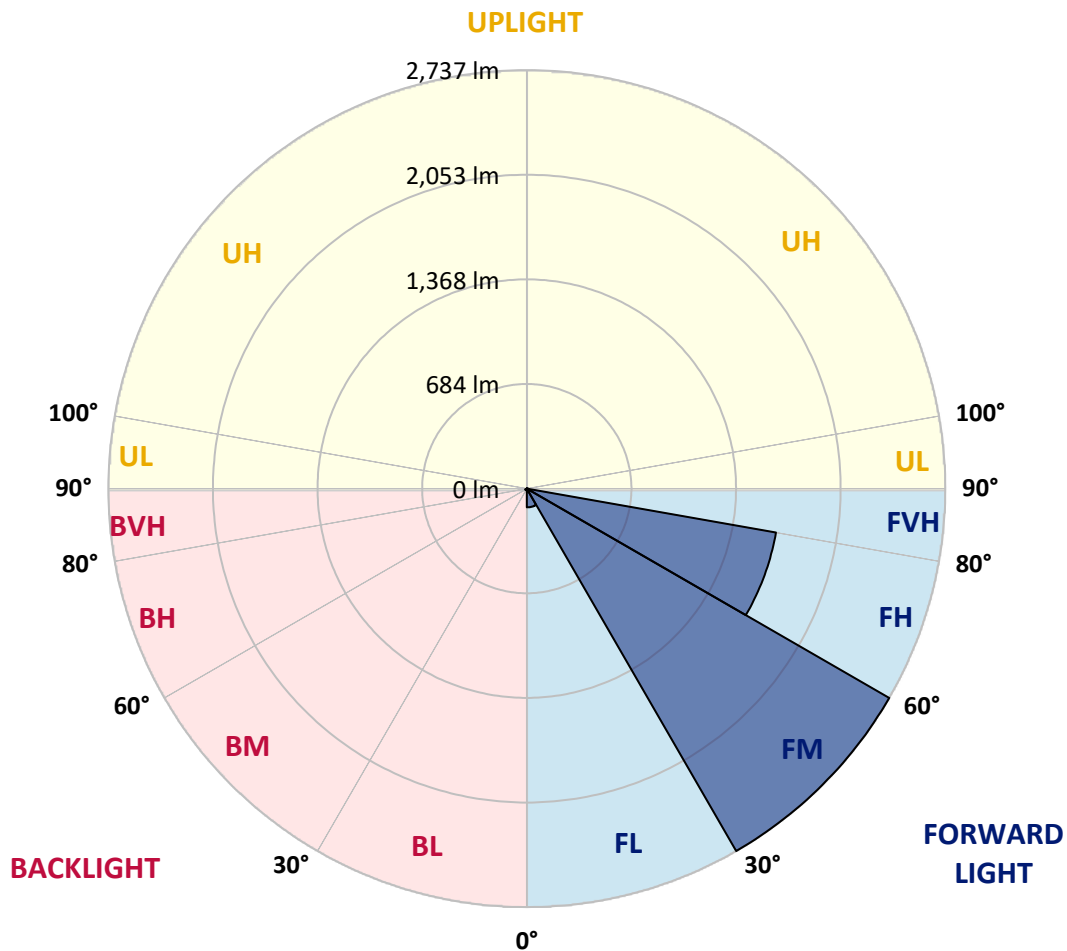
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 122.5  | 2.7       |                         |      |         |
| FM   | (30°-60°)   | 2736.7 | 60.2      |                         |      |         |
| FH   | (60°-80°)   | 1654.5 | 36.4      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 9.7    | 0.2       |                         |      | G0/10   |
| BL   | (0°-30°)    | 0.8    | 0.0       | B0/110                  |      |         |
| BM   | (30°-60°)   | 10.9   | 0.2       | B0/220                  |      |         |
| BH   | (60°-80°)   | 8.1    | 0.2       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.6    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G1**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°   | 15°  | 25°  | 35°  | 45°  | 47°  | 55° | 65° | 75° | 85° |
|-------|-------|------|------|------|------|------|------|-----|-----|-----|-----|
| 0°    | 6.4   | 6.4  | 6.4  | 6.4  | 6.4  | 6.4  | 6.4  | 6.4 | 6.4 | 6.4 | 6.4 |
| 2.5°  | 16.4  | 17.3 | 18.2 | 17.3 | 15.5 | 11.8 | 11.8 | 9.1 | 6.4 | 3.6 | 2.7 |
| 5°    | 18.2  | 18.2 | 18.2 | 17.3 | 15.5 | 11.8 | 10.9 | 8.2 | 5.5 | 3.6 | 1.8 |
| 7.5°  | 20.0  | 20.0 | 19.1 | 17.3 | 14.5 | 11.8 | 10.9 | 8.2 | 5.5 | 2.7 | 0.0 |
| 10°   | 21.8  | 21.8 | 20.0 | 18.2 | 14.5 | 10.9 | 10.0 | 7.3 | 4.5 | 1.8 | 0.0 |
| 12.5° | 24.6  | 23.6 | 20.9 | 18.2 | 14.5 | 10.0 | 10.0 | 7.3 | 3.6 | 0.9 | 0.0 |
| 15°   | 28.2  | 25.5 | 21.8 | 18.2 | 13.6 | 10.0 | 9.1  | 6.4 | 2.7 | 0.0 | 0.0 |
| 17.5° | 30.9  | 28.2 | 22.7 | 17.3 | 12.7 | 9.1  | 8.2  | 5.5 | 2.7 | 0.0 | 0.0 |
| 20°   | 33.6  | 29.1 | 22.7 | 17.3 | 12.7 | 8.2  | 7.3  | 4.5 | 0.9 | 0.0 | 0.0 |
| 22.5° | 38.2  | 30.9 | 22.7 | 17.3 | 11.8 | 7.3  | 6.4  | 3.6 | 0.0 | 0.0 | 0.0 |
| 25°   | 47.3  | 32.7 | 22.7 | 16.4 | 10.9 | 6.4  | 5.5  | 1.8 | 0.0 | 0.0 | 0.0 |
| 27.5° | 58.2  | 35.5 | 22.7 | 15.5 | 10.0 | 5.5  | 4.5  | 0.9 | 0.0 | 0.0 | 0.0 |
| 30°   | 70.0  | 38.2 | 22.7 | 15.5 | 9.1  | 4.5  | 3.6  | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 82.7  | 41.8 | 22.7 | 14.5 | 8.2  | 3.6  | 2.7  | 0.0 | 0.0 | 0.0 | 0.0 |
| 35°   | 106.4 | 47.3 | 22.7 | 14.5 | 7.3  | 2.7  | 1.8  | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 117.3 | 54.6 | 22.7 | 13.6 | 7.3  | 1.8  | 0.9  | 0.0 | 0.0 | 0.0 | 0.0 |
| 40°   | 121.9 | 52.7 | 21.8 | 13.6 | 6.4  | 0.9  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 131.9 | 49.1 | 22.7 | 12.7 | 6.4  | 0.9  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 |
| 45°   | 161.0 | 49.1 | 24.6 | 12.7 | 5.5  | 1.8  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 279.2 | 50.9 | 23.6 | 12.7 | 5.5  | 1.8  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 |
| 50°   | 459.2 | 60.0 | 22.7 | 13.6 | 6.4  | 0.9  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 532.9 | 72.7 | 22.7 | 14.5 | 8.2  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 |
| 55°   | 511.0 | 89.1 | 22.7 | 15.5 | 10.0 | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 464.7 | 84.6 | 24.6 | 18.2 | 12.7 | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 |
| 58°   | 447.4 | 84.6 | 24.6 | 18.2 | 12.7 | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 |
| 60°   | 351.0 | 86.4 | 28.2 | 20.0 | 13.6 | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 261.0 | 88.2 | 31.8 | 22.7 | 13.6 | 0.9  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 |
| 65°   | 193.7 | 91.8 | 33.6 | 26.4 | 12.7 | 1.8  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 154.6 | 94.6 | 36.4 | 29.1 | 14.5 | 3.6  | 0.9  | 0.0 | 0.0 | 0.0 | 0.0 |
| 70°   | 132.8 | 90.9 | 39.1 | 30.0 | 13.6 | 5.5  | 2.7  | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 118.2 | 85.5 | 44.6 | 29.1 | 14.5 | 5.5  | 2.7  | 0.0 | 0.0 | 0.0 | 0.0 |
| 75°   | 106.4 | 78.2 | 50.9 | 28.2 | 14.5 | 5.5  | 3.6  | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 80.0  | 68.2 | 50.0 | 27.3 | 13.6 | 5.5  | 3.6  | 0.0 | 0.0 | 0.0 | 0.0 |
| 80°   | 40.0  | 45.5 | 43.6 | 24.6 | 10.9 | 4.5  | 3.6  | 0.9 | 0.0 | 0.0 | 0.0 |
| 82.5° | 16.4  | 17.3 | 21.8 | 18.2 | 9.1  | 3.6  | 3.6  | 0.9 | 0.0 | 0.0 | 0.0 |
| 85°   | 1.8   | 3.6  | 6.4  | 7.3  | 6.4  | 3.6  | 3.6  | 0.9 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0   | 0.9  | 3.6  | 5.5  | 4.5  | 2.7  | 1.8  | 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 |



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**CANDELA DISTRIBUTION (continued):**

|       | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-----|-----|------|------|------|------|------|------|------|------|------|
| 0°    | 6.4 | 6.4 | 6.4  | 6.4  | 6.4  | 6.4  | 6.4  | 6.4  | 6.4  | 6.4  | 6.4  |
| 2.5°  | 1.8 | 1.8 | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  |
| 5°    | 0.9 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 7.5°  | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 10°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 12.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 15°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 17.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 20°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 22.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 25°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 27.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 30°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 32.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 35°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 37.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 40°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 42.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 45°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 47.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 50°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 52.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 55°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 57.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 58°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 60°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 62.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 65°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 67.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 70°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 72.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 75°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 77.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 80°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 82.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 85°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 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  |

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**CANDELA DISTRIBUTION (continued):**

|       | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265°  | 270°  | 275°   |
|-------|------|------|------|------|------|------|------|------|-------|-------|--------|
| 0°    | 6.4  | 6.4  | 6.4  | 6.4  | 6.4  | 6.4  | 6.4  | 6.4  | 6.4   | 6.4   | 6.4    |
| 2.5°  | 0.9  | 1.8  | 1.8  | 1.8  | 2.7  | 2.7  | 3.6  | 4.5  | 4.5   | 4.5   | 5.5    |
| 5°    | 0.0  | 0.0  | 0.9  | 0.9  | 1.8  | 2.7  | 3.6  | 5.5  | 6.4   | 6.4   | 7.3    |
| 7.5°  | 0.0  | 0.0  | 0.0  | 0.9  | 1.8  | 2.7  | 3.6  | 5.5  | 7.3   | 8.2   | 9.1    |
| 10°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.9  | 1.8  | 3.6  | 6.4  | 9.1   | 10.9  | 12.7   |
| 12.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.9  | 3.6  | 7.3  | 10.9  | 13.6  | 15.5   |
| 15°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.9  | 3.6  | 7.3  | 13.6  | 16.4  | 20.0   |
| 17.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.6  | 8.2  | 15.5  | 20.0  | 27.3   |
| 20°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.7  | 8.2  | 17.3  | 24.6  | 40.9   |
| 22.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.7  | 8.2  | 19.1  | 31.8  | 75.5   |
| 25°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.8  | 8.2  | 21.8  | 47.3  | 125.5  |
| 27.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.8  | 9.1  | 26.4  | 66.4  | 183.7  |
| 30°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.8  | 9.1  | 32.7  | 90.0  | 256.4  |
| 32.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.9  | 9.1  | 38.2  | 113.7 | 349.2  |
| 35°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.2  | 45.5  | 150.9 | 438.3  |
| 37.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.2  | 56.4  | 166.4 | 513.8  |
| 40°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.3  | 53.7  | 181.0 | 600.2  |
| 42.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.2  | 49.1  | 201.9 | 735.6  |
| 45°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.2  | 49.1  | 267.3 | 1035.7 |
| 47.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.3  | 60.0  | 416.5 | 1583.1 |
| 50°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.5  | 77.3  | 639.3 | 2254.2 |
| 52.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.5  | 93.7  | 786.6 | 2643.4 |
| 55°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.5  | 112.8 | 787.5 | 2630.7 |
| 57.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.5  | 125.5 | 704.7 | 2374.3 |
| 58°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.4  | 124.6 | 682.0 | 2303.3 |
| 60°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.9  | 9.1  | 109.1 | 592.0 | 2010.5 |
| 62.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.6  | 14.5 | 95.5  | 424.7 | 1666.8 |
| 65°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.3  | 16.4 | 87.3  | 308.3 | 1251.2 |
| 67.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.1  | 19.1 | 83.7  | 218.2 | 870.2  |
| 70°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 10.9 | 21.8 | 77.3  | 156.4 | 572.9  |
| 72.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 10.9 | 27.3 | 72.7  | 122.8 | 345.5  |
| 75°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 10.9 | 34.6 | 63.7  | 100.0 | 185.5  |
| 77.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 10.9 | 37.3 | 52.7  | 72.7  | 112.8  |
| 80°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 10.0 | 33.6 | 38.2  | 31.8  | 38.2   |
| 82.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.5  | 20.0 | 8.2   | 8.2   | 12.7   |
| 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: P1057708

CATALOG NUMBER: GAP-SA2A-827-U-RBC

**CANDELA DISTRIBUTION (continued):**

|       | 285°   | 295°   | 305°    | 313°    | 315°    | 325°   | 335°   | 345°   | 355°   | 360°  |
|-------|--------|--------|---------|---------|---------|--------|--------|--------|--------|-------|
| 0°    | 6.4    | 6.4    | 6.4     | 6.4     | 6.4     | 6.4    | 6.4    | 6.4    | 6.4    | 6.4   |
| 2.5°  | 6.4    | 6.4    | 6.4     | 6.4     | 7.3     | 7.3    | 10.0   | 12.7   | 15.5   | 16.4  |
| 5°    | 8.2    | 9.1    | 10.0    | 10.0    | 10.0    | 10.9   | 12.7   | 14.5   | 17.3   | 18.2  |
| 7.5°  | 11.8   | 12.7   | 14.5    | 14.5    | 14.5    | 15.5   | 16.4   | 18.2   | 20.0   | 20.0  |
| 10°   | 15.5   | 18.2   | 19.1    | 20.0    | 20.9    | 20.9   | 20.9   | 21.8   | 22.7   | 21.8  |
| 12.5° | 20.9   | 24.6   | 29.1    | 30.0    | 30.0    | 30.0   | 29.1   | 27.3   | 25.5   | 24.6  |
| 15°   | 29.1   | 40.0   | 54.6    | 60.0    | 57.3    | 50.9   | 44.6   | 34.6   | 30.0   | 28.2  |
| 17.5° | 53.7   | 109.1  | 198.2   | 219.1   | 214.6   | 184.6  | 108.2  | 52.7   | 35.5   | 30.9  |
| 20°   | 144.6  | 352.8  | 582.0   | 637.4   | 666.5   | 552.0  | 319.2  | 122.8  | 43.6   | 33.6  |
| 22.5° | 311.9  | 732.9  | 1135.8  | 1279.4  | 1288.5  | 1036.6 | 621.1  | 249.2  | 62.7   | 38.2  |
| 25°   | 502.0  | 1172.1 | 1721.4  | 1860.5  | 1863.2  | 1597.7 | 993.0  | 403.7  | 95.5   | 47.3  |
| 27.5° | 769.3  | 1643.2 | 2257.9  | 2373.4  | 2371.5  | 2102.4 | 1434.9 | 616.5  | 133.7  | 58.2  |
| 30°   | 1043.0 | 2010.5 | 2611.6  | 2755.3  | 2768.9  | 2447.0 | 1804.1 | 868.4  | 174.6  | 70.0  |
| 32.5° | 1314.0 | 2282.4 | 2934.4  | 3125.4  | 3113.6  | 2751.6 | 2061.5 | 1074.8 | 244.6  | 82.7  |
| 35°   | 1527.7 | 2514.3 | 3291.8  | 3526.4  | 3535.5  | 3086.3 | 2289.7 | 1274.9 | 304.6  | 106.4 |
| 37.5° | 1710.5 | 2813.5 | 3767.4  | 4038.3  | 4050.2  | 3502.7 | 2528.9 | 1471.3 | 356.5  | 117.3 |
| 40°   | 1936.0 | 3304.5 | 4554.8  | 5015.0  | 5016.8  | 4279.3 | 2959.0 | 1691.4 | 426.5  | 121.9 |
| 42.5° | 2442.5 | 4356.6 | 6093.4  | 6754.5  | 6811.8  | 5890.7 | 3936.5 | 2168.8 | 536.5  | 131.9 |
| 45°   | 3455.5 | 5743.3 | 8055.8  | 8816.9  | 8889.6  | 7895.7 | 5612.4 | 3270.9 | 778.4  | 161.0 |
| 47.5° | 4660.3 | 6949.1 | 9196.1  | 9929.0  | 9977.2  | 8844.2 | 6734.5 | 4545.8 | 1324.9 | 279.2 |
| 50°   | 5401.4 | 7395.6 | 9615.3  | 10314.6 | 10322.7 | 9156.1 | 7086.4 | 5207.7 | 1887.8 | 459.2 |
| 52.5° | 5631.5 | 7452.9 | 9631.6  | 10477.3 | 10501.0 | 9119.7 | 7134.6 | 5341.4 | 2122.4 | 532.9 |
| 55°   | 5537.8 | 7419.2 | 9804.4  | 10788.3 | 10813.8 | 9267.9 | 7101.9 | 5195.0 | 2012.4 | 511.0 |
| 57.5° | 5324.1 | 7550.2 | 10088.1 | 11157.5 | 11157.5 | 9541.6 | 7222.8 | 4949.5 | 1743.2 | 464.7 |
| 58°   | 5292.3 | 7582.9 | 10103.6 | 11177.5 | 11169.3 | 9558.9 | 7272.8 | 4914.0 | 1684.1 | 447.4 |
| 60°   | 5248.7 | 7683.9 | 9989.0  | 10882.0 | 10858.3 | 9437.0 | 7363.8 | 4882.2 | 1397.6 | 351.0 |
| 62.5° | 5185.0 | 7456.5 | 9154.2  | 10012.7 | 9951.7  | 8583.2 | 7102.8 | 4695.8 | 1043.0 | 261.0 |
| 65°   | 4858.6 | 6617.2 | 7631.1  | 8225.8  | 8206.7  | 7061.0 | 6113.4 | 4206.6 | 751.1  | 193.7 |
| 67.5° | 4095.6 | 5180.5 | 6164.4  | 6880.9  | 6885.5  | 5764.3 | 4781.3 | 3361.8 | 511.0  | 154.6 |
| 70°   | 2880.8 | 3821.0 | 5240.5  | 6038.0  | 6074.3  | 4834.9 | 3541.8 | 2240.6 | 337.4  | 132.8 |
| 72.5° | 1720.5 | 2886.2 | 4357.5  | 4963.1  | 4944.0  | 4012.0 | 2628.0 | 1335.8 | 205.5  | 118.2 |
| 75°   | 833.9  | 1725.0 | 2202.4  | 2554.3  | 2539.8  | 2006.9 | 1400.4 | 654.7  | 150.0  | 106.4 |
| 77.5° | 226.4  | 530.1  | 853.0   | 1109.4  | 1139.4  | 803.8  | 459.2  | 175.5  | 93.7   | 80.0  |
| 80°   | 76.4   | 163.7  | 278.3   | 378.3   | 388.3   | 347.4  | 172.8  | 61.8   | 40.9   | 40.0  |
| 82.5° | 29.1   | 40.0   | 50.9    | 45.5    | 45.5    | 47.3   | 37.3   | 26.4   | 19.1   | 16.4  |
| 85°   | 0.0    | 0.0    | 0.9     | 1.8     | 1.8     | 2.7    | 2.7    | 2.7    | 1.8    | 1.8   |
| 87.5° | 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   |

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-8

Test Date: 10/10/2024

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

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

### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2407-184-8  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry:  $4\pi$   
 Issue Date: 10/15/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: McGraw-Edison  
 Catalog Number: **GSS-SB1A-827-U-5WQ**  
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI  
 2700K CCT 26 LEDS

### Spectral Parameters

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

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



### Test Conditions

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

REPORT NUMBER: SP1-2407-184-8

| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| Photometer                     | IN0058                | 6/18/2024        | 12/18/2024           |
| Power Meter                    | INXT2011004           | 2/8/2024         | 2/8/2025             |
| AC Power Source                | IN0063                | 10/24/2023       | 10/24/2024           |
| DC Power Source                | IN0208                | 10/24/2023       | 10/24/2024           |
| Sphere Thermometer             | IN0085                | 10/24/2023       | 10/24/2024           |
| Room Thermometer               | IN0046                | 10/24/2023       | 10/24/2024           |

REPORT NUMBER: SP1-2407-184-8

**CIE 1931 Chromaticity Diagram**



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



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-8

### Photopic Flux vs. Wavelength

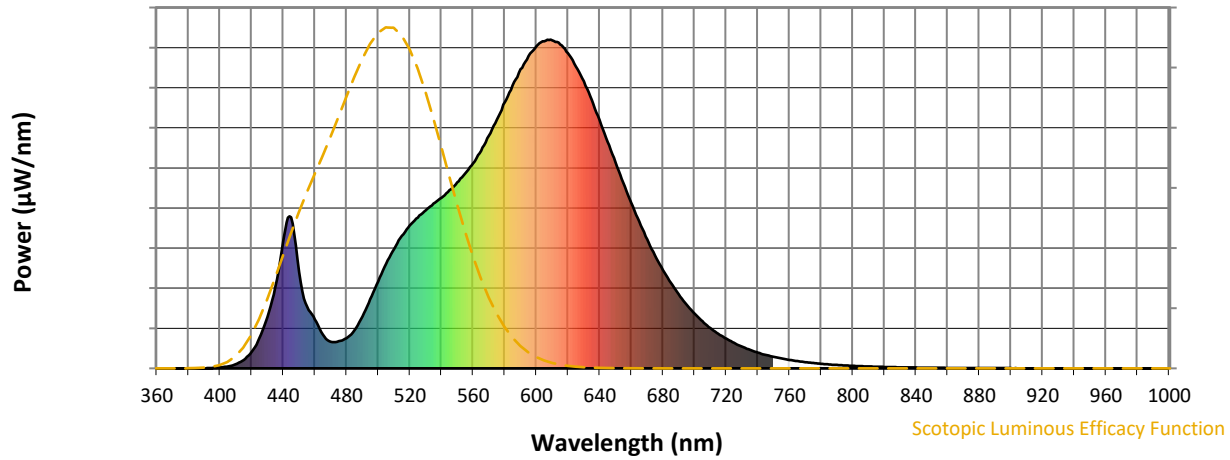


### Photopic Lumens: NR

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

REPORT NUMBER: SP1-2407-184-8

### Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.2

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

REPORT NUMBER: SP1-2407-184-8

### Melanopic Flux vs. Wavelength


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

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

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TM-30-18

### Summary

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

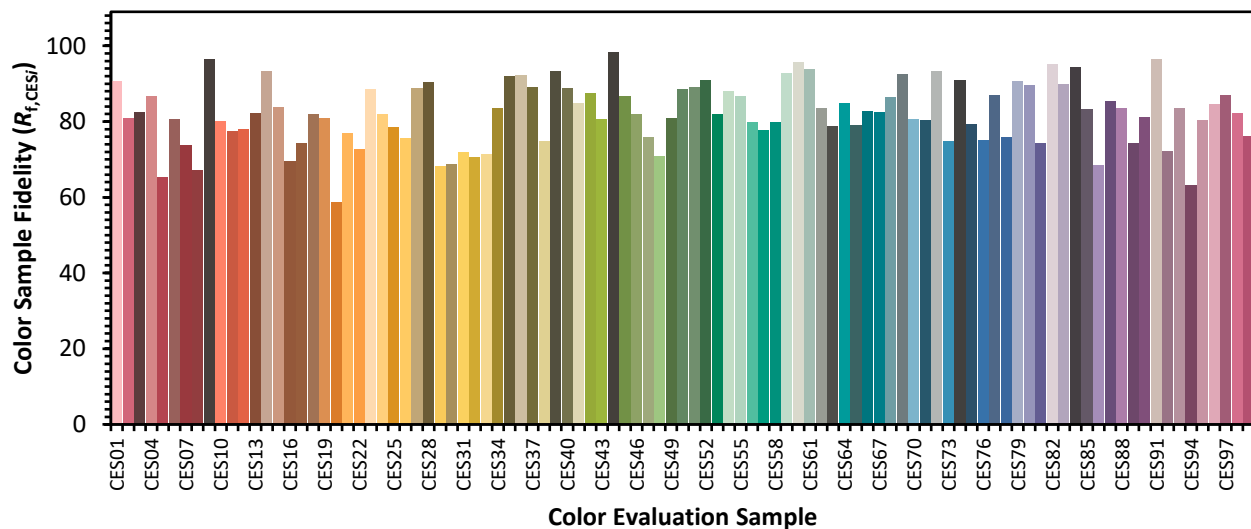


### Color Vector Graphics

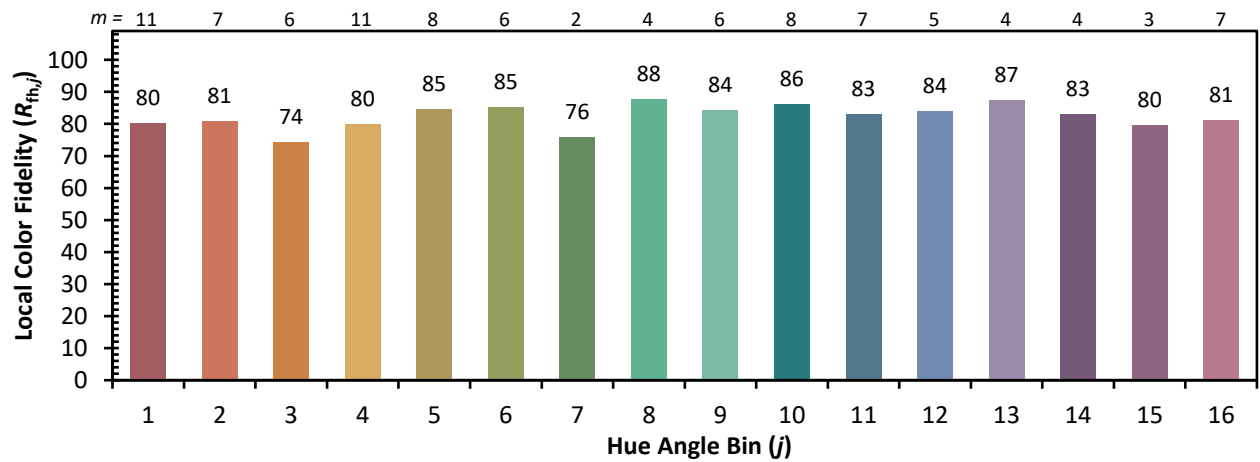
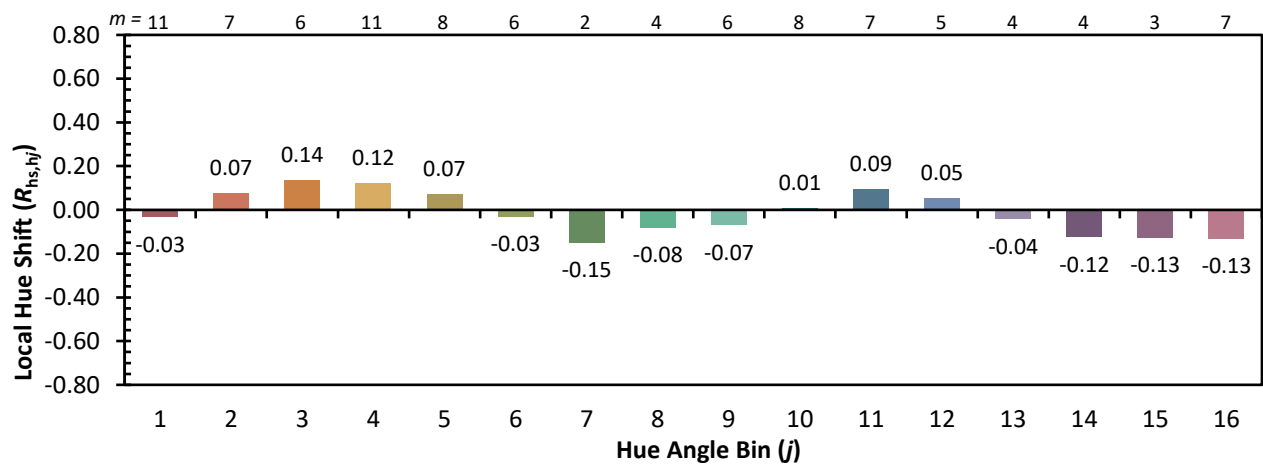
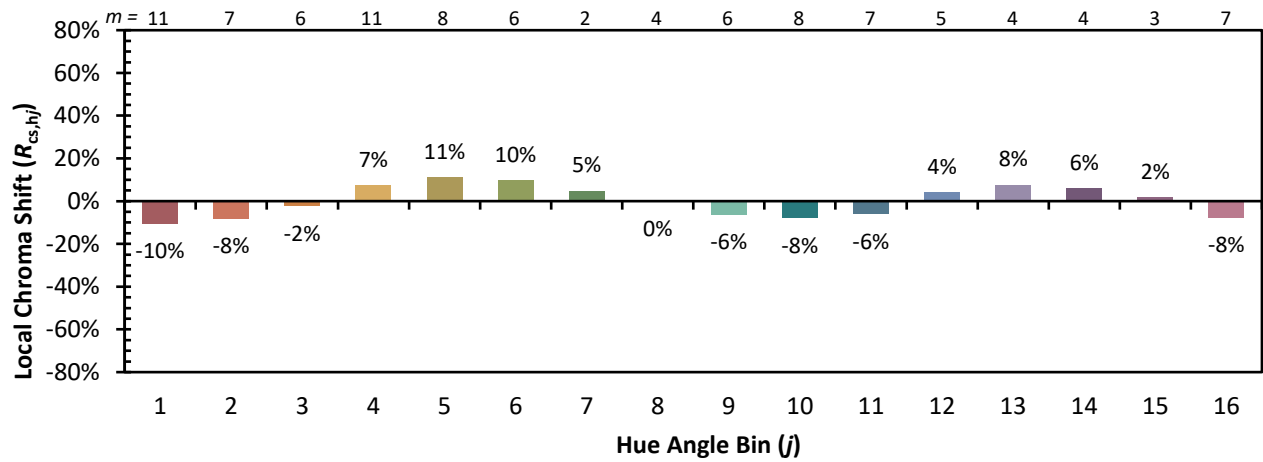


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

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



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)