

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: P1057705

Luminaire Tested: **GAP-SA2D-827-U-RBC**

Issue Date: 08/07/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1057705  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 08/07/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAP-SA2D-827-U-RBC  
Description: GALLEON PEDESTRAIAN COMPANION 1200mA 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: 7983.8 lumens  
Efficiency: N/A  
Efficacy: 73.8 lumens/watt  
Luminous Opening: Rectangular (W 1.33' x L: 0.67' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G2

Input Watts (W): 108.2  
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

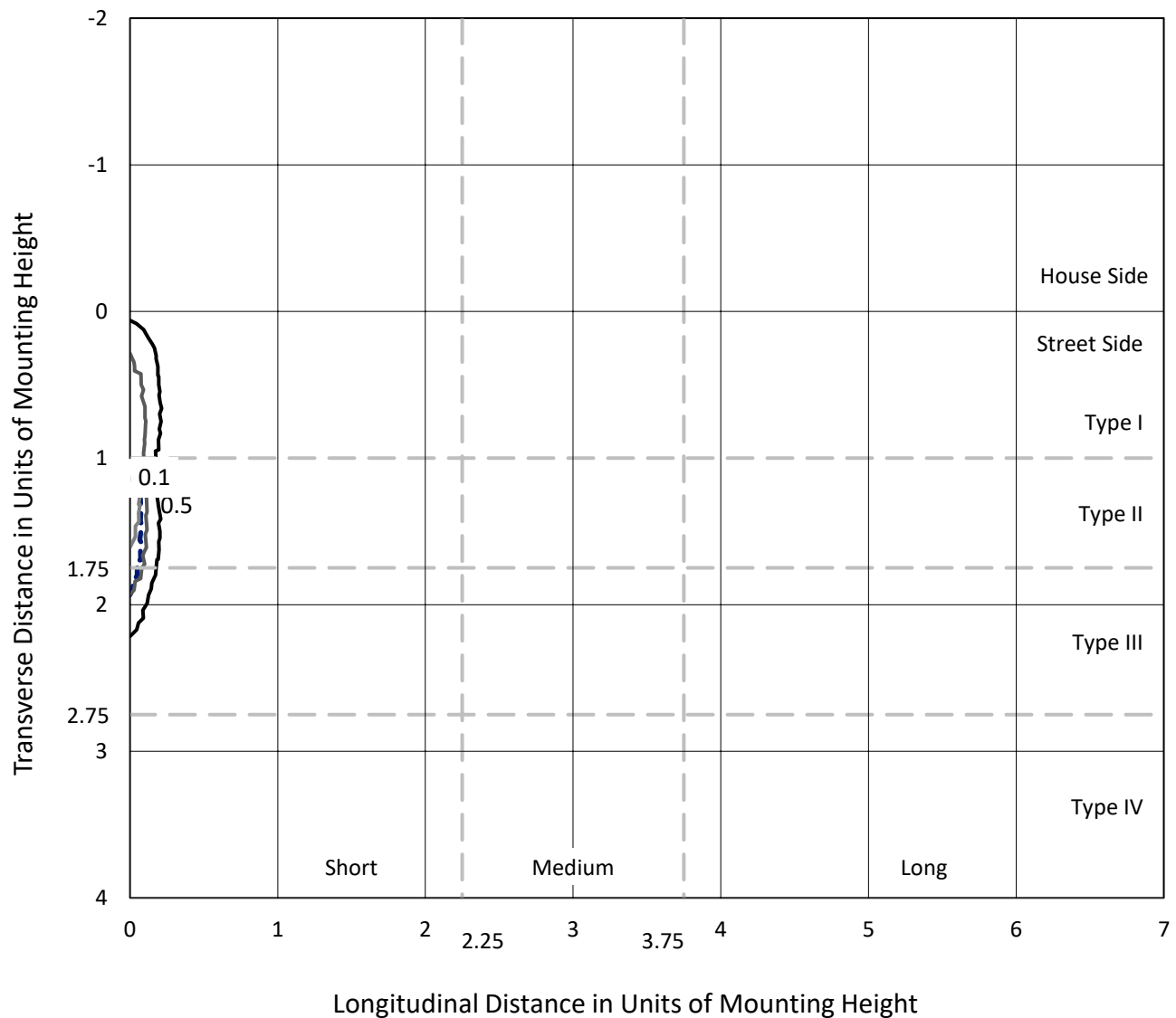


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

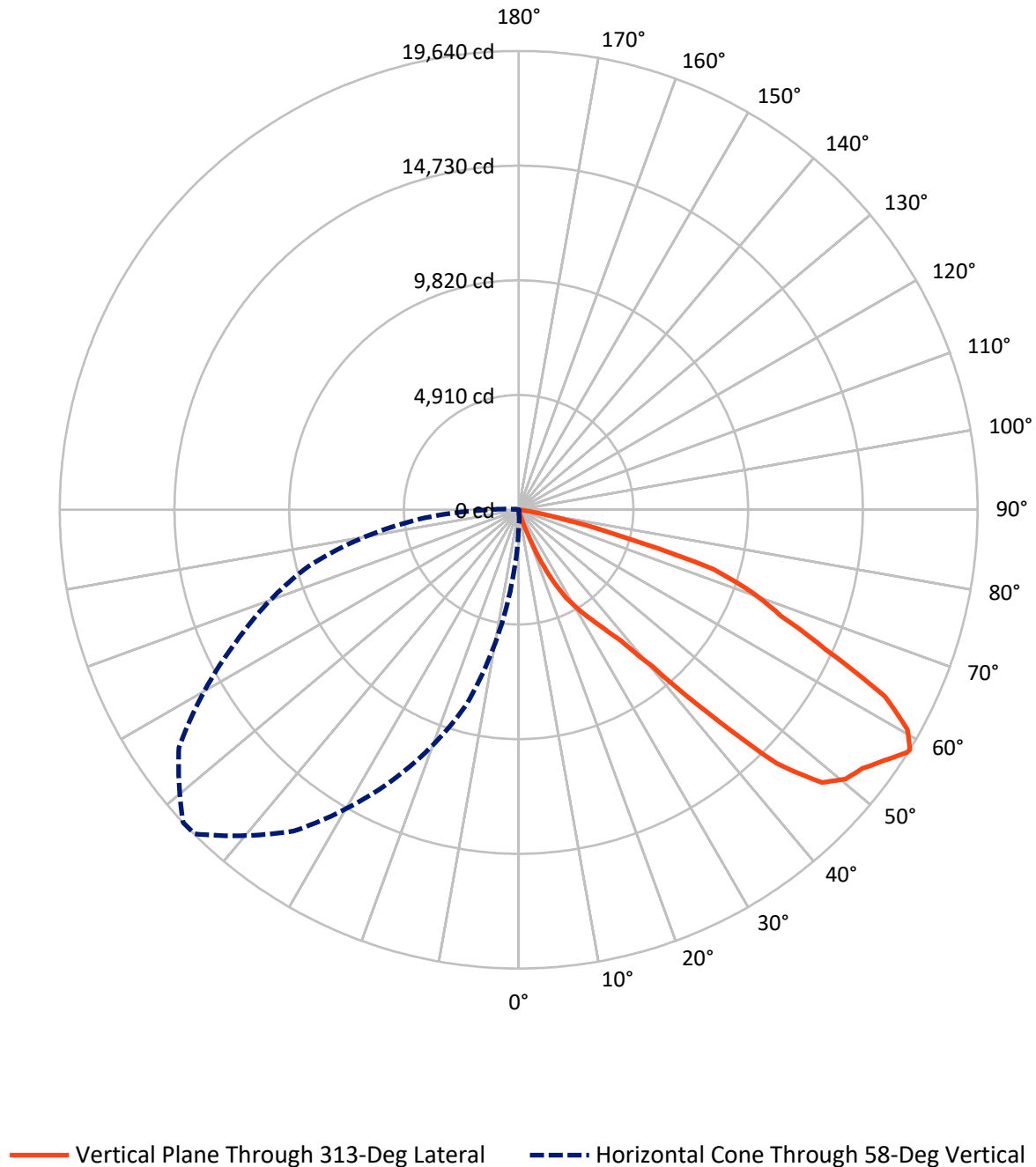


Based on 15 foot mounting height. Maximum calculated value = 0.9 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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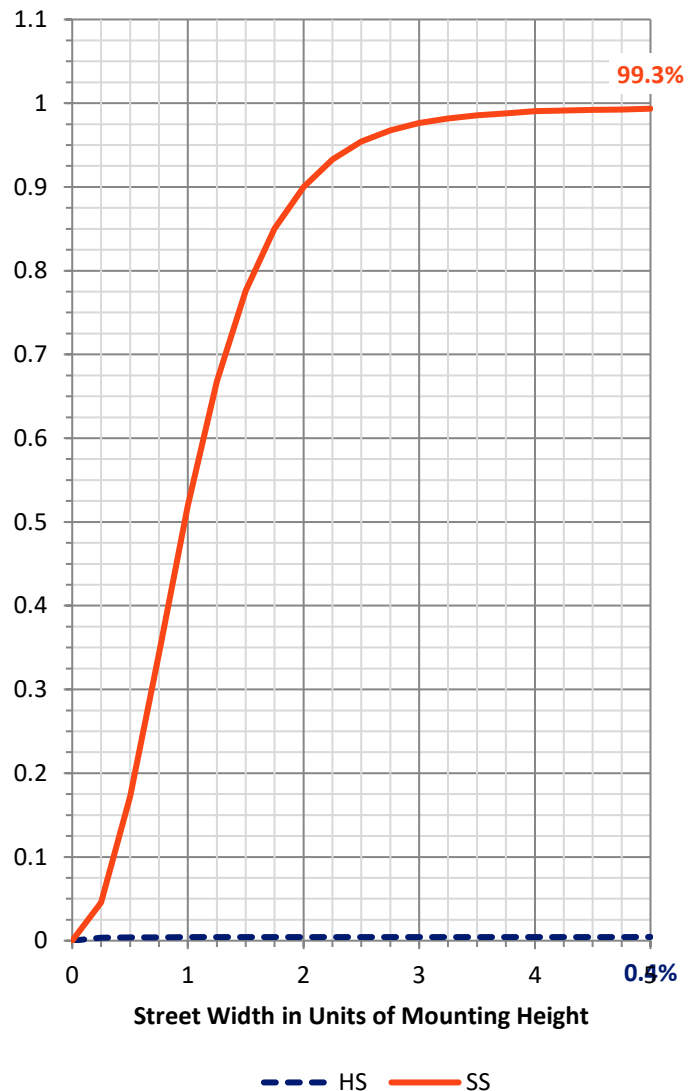
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 35.7     | 0.0    | 35.7   |
|                    | % Fixture | 0.4      | 0.0    | 0.4    |
| <b>Street Side</b> | Lumens    | 7948.1   | 0.0    | 7948.1 |
|                    | % Fixture | 99.6     | 0.0    | 99.6   |
| <b>Total</b>       | Lumens    | 7983.8   | 0.0    | 7983.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.2    | 0.0       |
| 10°-20°   | 13.9   | 0.2       |
| 20°-30°   | 201.6  | 2.5       |
| 30°-40°   | 579.6  | 7.3       |
| 40°-50°   | 1651.1 | 20.7      |
| 50°-60°   | 2597.1 | 32.5      |
| 60°-70°   | 2214.8 | 27.7      |
| 70°-80°   | 706.5  | 8.8       |
| 80°-90°   | 18.0   | 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°    | 7983.8 | 100.0     |
| 0°-180°   | 7983.8 | 100.0     |



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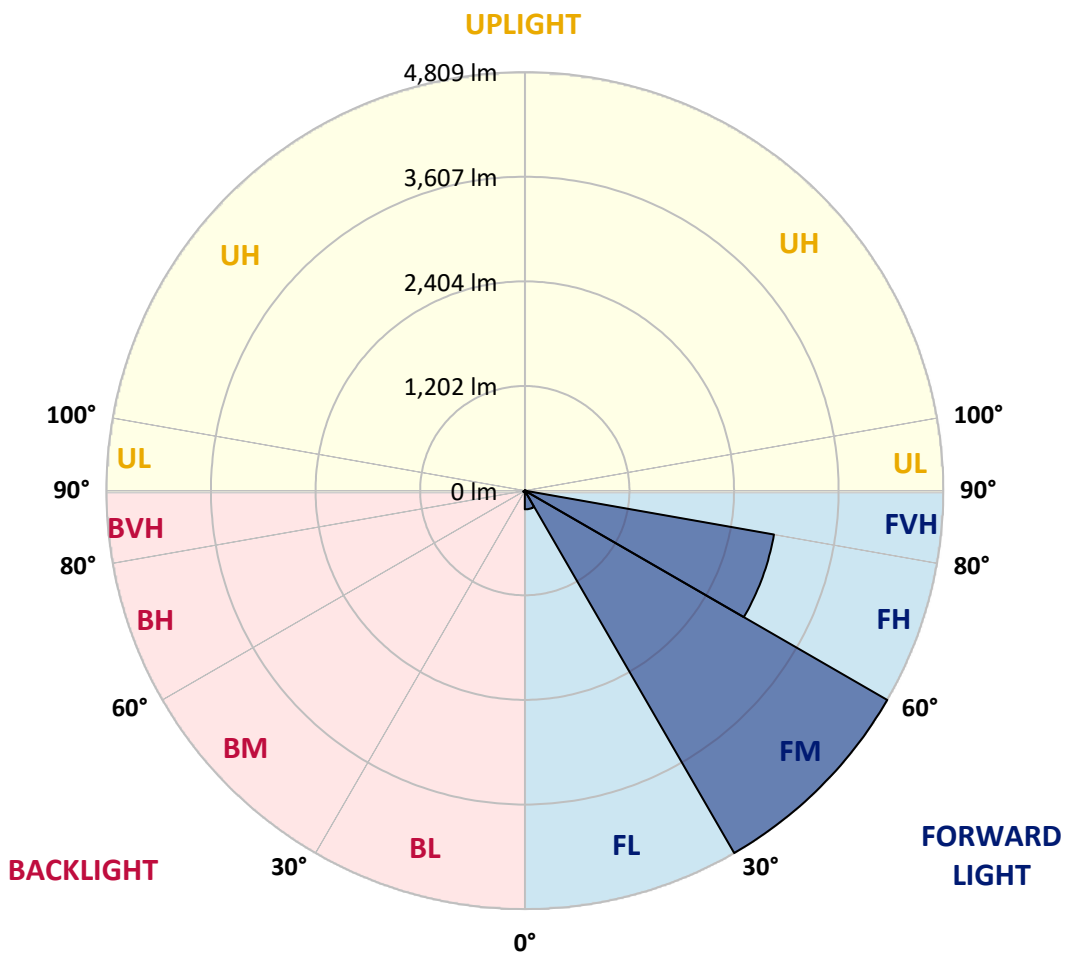
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 215.2  | 2.7       |                         |      |         |
| FM   | (30°-60°)   | 4808.7 | 60.2      |                         |      |         |
| FH   | (60°-80°)   | 2907.1 | 36.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 17.0   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1.4    | 0.0       | B0/110                  |      |         |
| BM   | (30°-60°)   | 19.1   | 0.2       | B0/220                  |      |         |
| BH   | (60°-80°)   | 14.2   | 0.2       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 1.0    | 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°  | 45°  | 47°  | 55°  | 65°  | 75°  | 85°  |
|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| 0°    | 11.2  | 11.2  | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 |
| 2.5°  | 28.8  | 30.4  | 32.0 | 30.4 | 27.2 | 20.8 | 20.8 | 16.0 | 11.2 | 6.4  | 4.8  |
| 5°    | 32.0  | 32.0  | 32.0 | 30.4 | 27.2 | 20.8 | 19.2 | 14.4 | 9.6  | 6.4  | 3.2  |
| 7.5°  | 35.2  | 35.2  | 33.6 | 30.4 | 25.6 | 20.8 | 19.2 | 14.4 | 9.6  | 4.8  | 0.0  |
| 10°   | 38.3  | 38.3  | 35.2 | 32.0 | 25.6 | 19.2 | 17.6 | 12.8 | 8.0  | 3.2  | 0.0  |
| 12.5° | 43.1  | 41.5  | 36.7 | 32.0 | 25.6 | 17.6 | 17.6 | 12.8 | 6.4  | 1.6  | 0.0  |
| 15°   | 49.5  | 44.7  | 38.3 | 32.0 | 24.0 | 17.6 | 16.0 | 11.2 | 4.8  | 0.0  | 0.0  |
| 17.5° | 54.3  | 49.5  | 39.9 | 30.4 | 22.4 | 16.0 | 14.4 | 9.6  | 4.8  | 0.0  | 0.0  |
| 20°   | 59.1  | 51.1  | 39.9 | 30.4 | 22.4 | 14.4 | 12.8 | 8.0  | 1.6  | 0.0  | 0.0  |
| 22.5° | 67.1  | 54.3  | 39.9 | 30.4 | 20.8 | 12.8 | 11.2 | 6.4  | 0.0  | 0.0  | 0.0  |
| 25°   | 83.1  | 57.5  | 39.9 | 28.8 | 19.2 | 11.2 | 9.6  | 3.2  | 0.0  | 0.0  | 0.0  |
| 27.5° | 102.3 | 62.3  | 39.9 | 27.2 | 17.6 | 9.6  | 8.0  | 1.6  | 0.0  | 0.0  | 0.0  |
| 30°   | 123.0 | 67.1  | 39.9 | 27.2 | 16.0 | 8.0  | 6.4  | 0.0  | 0.0  | 0.0  | 0.0  |
| 32.5° | 145.4 | 73.5  | 39.9 | 25.6 | 14.4 | 6.4  | 4.8  | 0.0  | 0.0  | 0.0  | 0.0  |
| 35°   | 186.9 | 83.1  | 39.9 | 25.6 | 12.8 | 4.8  | 3.2  | 0.0  | 0.0  | 0.0  | 0.0  |
| 37.5° | 206.1 | 95.9  | 39.9 | 24.0 | 12.8 | 3.2  | 1.6  | 0.0  | 0.0  | 0.0  | 0.0  |
| 40°   | 214.1 | 92.7  | 38.3 | 24.0 | 11.2 | 1.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 42.5° | 231.7 | 86.3  | 39.9 | 22.4 | 11.2 | 1.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 45°   | 282.8 | 86.3  | 43.1 | 22.4 | 9.6  | 3.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 47.5° | 490.5 | 89.5  | 41.5 | 22.4 | 9.6  | 3.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 50°   | 806.9 | 105.5 | 39.9 | 24.0 | 11.2 | 1.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 52.5° | 936.3 | 127.8 | 39.9 | 25.6 | 14.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 55°   | 898.0 | 156.6 | 39.9 | 27.2 | 17.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 57.5° | 816.5 | 148.6 | 43.1 | 32.0 | 22.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 58°   | 786.1 | 148.6 | 43.1 | 32.0 | 22.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 60°   | 616.7 | 151.8 | 49.5 | 35.2 | 24.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 62.5° | 458.6 | 155.0 | 55.9 | 39.9 | 24.0 | 1.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 65°   | 340.3 | 161.4 | 59.1 | 46.3 | 22.4 | 3.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 67.5° | 271.6 | 166.2 | 63.9 | 51.1 | 25.6 | 6.4  | 1.6  | 0.0  | 0.0  | 0.0  | 0.0  |
| 70°   | 233.3 | 159.8 | 68.7 | 52.7 | 24.0 | 9.6  | 4.8  | 0.0  | 0.0  | 0.0  | 0.0  |
| 72.5° | 207.7 | 150.2 | 78.3 | 51.1 | 25.6 | 9.6  | 4.8  | 0.0  | 0.0  | 0.0  | 0.0  |
| 75°   | 186.9 | 137.4 | 89.5 | 49.5 | 25.6 | 9.6  | 6.4  | 0.0  | 0.0  | 0.0  | 0.0  |
| 77.5° | 140.6 | 119.8 | 87.9 | 47.9 | 24.0 | 9.6  | 6.4  | 0.0  | 0.0  | 0.0  | 0.0  |
| 80°   | 70.3  | 79.9  | 76.7 | 43.1 | 19.2 | 8.0  | 6.4  | 1.6  | 0.0  | 0.0  | 0.0  |
| 82.5° | 28.8  | 30.4  | 38.3 | 32.0 | 16.0 | 6.4  | 6.4  | 1.6  | 0.0  | 0.0  | 0.0  |
| 85°   | 3.2   | 6.4   | 11.2 | 12.8 | 11.2 | 6.4  | 6.4  | 1.6  | 0.0  | 0.0  | 0.0  |
| 87.5° | 0.0   | 1.6   | 6.4  | 9.6  | 8.0  | 4.8  | 3.2  | 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°    | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 |
| 2.5°  | 3.2  | 3.2  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  |
| 5°    | 1.6  | 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°    | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2  | 11.2   | 11.2   |
| 2.5°  | 1.6  | 3.2  | 3.2  | 3.2  | 4.8  | 4.8  | 6.4  | 8.0  | 8.0   | 8.0    | 9.6    |
| 5°    | 0.0  | 0.0  | 1.6  | 1.6  | 3.2  | 4.8  | 6.4  | 9.6  | 11.2  | 11.2   | 12.8   |
| 7.5°  | 0.0  | 0.0  | 0.0  | 1.6  | 3.2  | 4.8  | 6.4  | 9.6  | 12.8  | 14.4   | 16.0   |
| 10°   | 0.0  | 0.0  | 0.0  | 0.0  | 1.6  | 3.2  | 6.4  | 11.2 | 16.0  | 19.2   | 22.4   |
| 12.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.6  | 6.4  | 12.8 | 19.2  | 24.0   | 27.2   |
| 15°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.6  | 6.4  | 12.8 | 24.0  | 28.8   | 35.2   |
| 17.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.4  | 14.4 | 27.2  | 35.2   | 47.9   |
| 20°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.8  | 14.4 | 30.4  | 43.1   | 71.9   |
| 22.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.8  | 14.4 | 33.6  | 55.9   | 132.6  |
| 25°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  | 14.4 | 38.3  | 83.1   | 220.5  |
| 27.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  | 16.0 | 46.3  | 116.6  | 322.8  |
| 30°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  | 16.0 | 57.5  | 158.2  | 450.6  |
| 32.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.6  | 16.0 | 67.1  | 199.7  | 613.6  |
| 35°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 14.4 | 79.9  | 265.2  | 770.1  |
| 37.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 14.4 | 99.1  | 292.4  | 902.8  |
| 40°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 12.8 | 94.3  | 318.0  | 1054.5 |
| 42.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 14.4 | 86.3  | 354.7  | 1292.6 |
| 45°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 14.4 | 86.3  | 469.8  | 1819.9 |
| 47.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 12.8 | 105.5 | 731.8  | 2781.8 |
| 50°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.6  | 135.8 | 1123.2 | 3960.9 |
| 52.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.0  | 164.6 | 1382.1 | 4644.8 |
| 55°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.0  | 198.1 | 1383.7 | 4622.4 |
| 57.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.6  | 220.5 | 1238.3 | 4171.8 |
| 58°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 11.2 | 218.9 | 1198.3 | 4047.2 |
| 60°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.6  | 16.0 | 191.7 | 1040.2 | 3532.7 |
| 62.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.4  | 25.6 | 167.8 | 746.2  | 2928.8 |
| 65°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 12.8 | 28.8 | 153.4 | 541.7  | 2198.6 |
| 67.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 16.0 | 33.6 | 147.0 | 383.5  | 1529.1 |
| 70°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 19.2 | 38.3 | 135.8 | 274.8  | 1006.6 |
| 72.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 19.2 | 47.9 | 127.8 | 215.7  | 607.2  |
| 75°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 19.2 | 60.7 | 111.8 | 175.8  | 325.9  |
| 77.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 19.2 | 65.5 | 92.7  | 127.8  | 198.1  |
| 80°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 17.6 | 59.1 | 67.1  | 55.9   | 67.1   |
| 82.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.6  | 35.2 | 14.4  | 14.4   | 22.4   |
| 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: P1057705

CATALOG NUMBER: GAP-SA2D-827-U-RBC

**CANDELA DISTRIBUTION (continued):**

|       | 285°   | 295°    | 305°    | 313°    | 315°    | 325°    | 335°    | 345°   | 355°   | 360°  |
|-------|--------|---------|---------|---------|---------|---------|---------|--------|--------|-------|
| 0°    | 11.2   | 11.2    | 11.2    | 11.2    | 11.2    | 11.2    | 11.2    | 11.2   | 11.2   | 11.2  |
| 2.5°  | 11.2   | 11.2    | 11.2    | 11.2    | 12.8    | 12.8    | 17.6    | 22.4   | 27.2   | 28.8  |
| 5°    | 14.4   | 16.0    | 17.6    | 17.6    | 17.6    | 19.2    | 22.4    | 25.6   | 30.4   | 32.0  |
| 7.5°  | 20.8   | 22.4    | 25.6    | 25.6    | 25.6    | 27.2    | 28.8    | 32.0   | 35.2   | 35.2  |
| 10°   | 27.2   | 32.0    | 33.6    | 35.2    | 36.7    | 36.7    | 36.7    | 38.3   | 39.9   | 38.3  |
| 12.5° | 36.7   | 43.1    | 51.1    | 52.7    | 52.7    | 52.7    | 51.1    | 47.9   | 44.7   | 43.1  |
| 15°   | 51.1   | 70.3    | 95.9    | 105.5   | 100.7   | 89.5    | 78.3    | 60.7   | 52.7   | 49.5  |
| 17.5° | 94.3   | 191.7   | 348.3   | 385.1   | 377.1   | 324.4   | 190.1   | 92.7   | 62.3   | 54.3  |
| 20°   | 254.0  | 619.9   | 1022.6  | 1120.1  | 1171.2  | 969.9   | 560.8   | 215.7  | 76.7   | 59.1  |
| 22.5° | 548.0  | 1287.8  | 1995.6  | 2248.1  | 2264.1  | 1821.5  | 1091.3  | 437.8  | 110.2  | 67.1  |
| 25°   | 882.0  | 2059.6  | 3024.6  | 3269.1  | 3273.9  | 2807.3  | 1744.8  | 709.4  | 167.8  | 83.1  |
| 27.5° | 1351.7 | 2887.2  | 3967.3  | 4170.2  | 4167.0  | 3694.1  | 2521.3  | 1083.3 | 234.9  | 102.3 |
| 30°   | 1832.7 | 3532.7  | 4588.9  | 4841.3  | 4865.3  | 4299.7  | 3170.0  | 1525.9 | 306.8  | 123.0 |
| 32.5° | 2308.8 | 4010.5  | 5156.1  | 5491.6  | 5470.8  | 4834.9  | 3622.2  | 1888.6 | 429.8  | 145.4 |
| 35°   | 2684.3 | 4417.9  | 5784.0  | 6196.2  | 6212.2  | 5422.9  | 4023.2  | 2240.1 | 535.3  | 186.9 |
| 37.5° | 3005.4 | 4943.6  | 6619.7  | 7095.8  | 7116.6  | 6154.7  | 4443.5  | 2585.2 | 626.3  | 206.1 |
| 40°   | 3401.7 | 5806.4  | 8003.3  | 8811.8  | 8815.0  | 7519.2  | 5199.2  | 2971.9 | 749.4  | 214.1 |
| 42.5° | 4291.7 | 7655.0  | 10706.8 | 11868.4 | 11969.1 | 10350.5 | 6916.8  | 3810.7 | 942.7  | 231.7 |
| 45°   | 6071.6 | 10091.7 | 14154.9 | 15492.2 | 15620.0 | 13873.6 | 9861.6  | 5747.3 | 1367.7 | 282.8 |
| 47.5° | 8188.7 | 12210.3 | 16158.5 | 17446.3 | 17531.0 | 15540.1 | 11833.3 | 7987.4 | 2328.0 | 490.5 |
| 50°   | 9490.9 | 12994.9 | 16895.1 | 18123.8 | 18138.1 | 16088.2 | 12451.6 | 9150.6 | 3317.0 | 806.9 |
| 52.5° | 9895.1 | 13095.5 | 16923.8 | 18409.8 | 18451.3 | 16024.3 | 12536.3 | 9385.4 | 3729.2 | 936.3 |
| 55°   | 9730.6 | 13036.4 | 17227.4 | 18956.2 | 19001.0 | 16284.7 | 12478.8 | 9128.2 | 3535.9 | 898.0 |
| 57.5° | 9355.1 | 13266.5 | 17725.9 | 19604.9 | 19604.9 | 16765.6 | 12691.3 | 8696.8 | 3063.0 | 816.5 |
| 58°   | 9299.2 | 13324.0 | 17753.1 | 19640.1 | 19625.7 | 16796.0 | 12779.2 | 8634.5 | 2959.1 | 786.1 |
| 60°   | 9222.5 | 13501.4 | 17551.8 | 19120.8 | 19079.2 | 16581.9 | 12938.9 | 8578.6 | 2455.8 | 616.7 |
| 62.5° | 9110.6 | 13101.9 | 16085.0 | 17593.3 | 17486.2 | 15081.6 | 12480.4 | 8251.0 | 1832.7 | 458.6 |
| 65°   | 8537.0 | 11627.1 | 13408.7 | 14453.6 | 14420.1 | 12406.9 | 10742.0 | 7391.4 | 1319.8 | 340.3 |
| 67.5° | 7196.5 | 9102.6  | 10831.4 | 12090.5 | 12098.5 | 10128.4 | 8401.2  | 5907.0 | 898.0  | 271.6 |
| 70°   | 5061.8 | 6713.9  | 9208.1  | 10609.3 | 10673.3 | 8495.5  | 6223.4  | 3937.0 | 592.8  | 233.3 |
| 72.5° | 3023.0 | 5071.4  | 7656.6  | 8720.8  | 8687.2  | 7049.5  | 4617.6  | 2347.2 | 361.1  | 207.7 |
| 75°   | 1465.2 | 3031.0  | 3869.9  | 4488.2  | 4462.6  | 3526.3  | 2460.6  | 1150.4 | 263.6  | 186.9 |
| 77.5° | 397.9  | 931.5   | 1498.7  | 1949.3  | 2002.0  | 1412.4  | 806.9   | 308.4  | 164.6  | 140.6 |
| 80°   | 134.2  | 287.6   | 488.9   | 664.7   | 682.3   | 610.4   | 303.6   | 108.6  | 71.9   | 70.3  |
| 82.5° | 51.1   | 70.3    | 89.5    | 79.9    | 79.9    | 83.1    | 65.5    | 46.3   | 33.6   | 28.8  |
| 85°   | 0.0    | 0.0     | 1.6     | 3.2     | 3.2     | 4.8     | 4.8     | 4.8    | 3.2    | 3.2   |
| 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

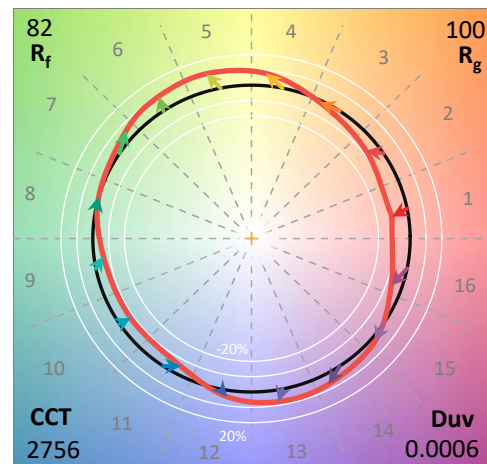
### Test Information

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

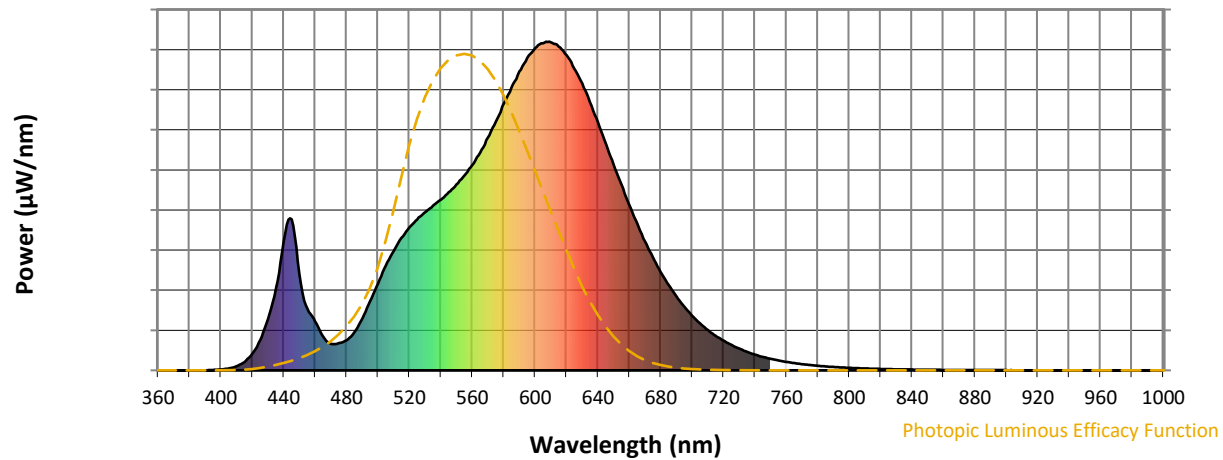
REPORT NUMBER: SP1-2407-184-8

| 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

### Photopic Flux vs. Wavelength

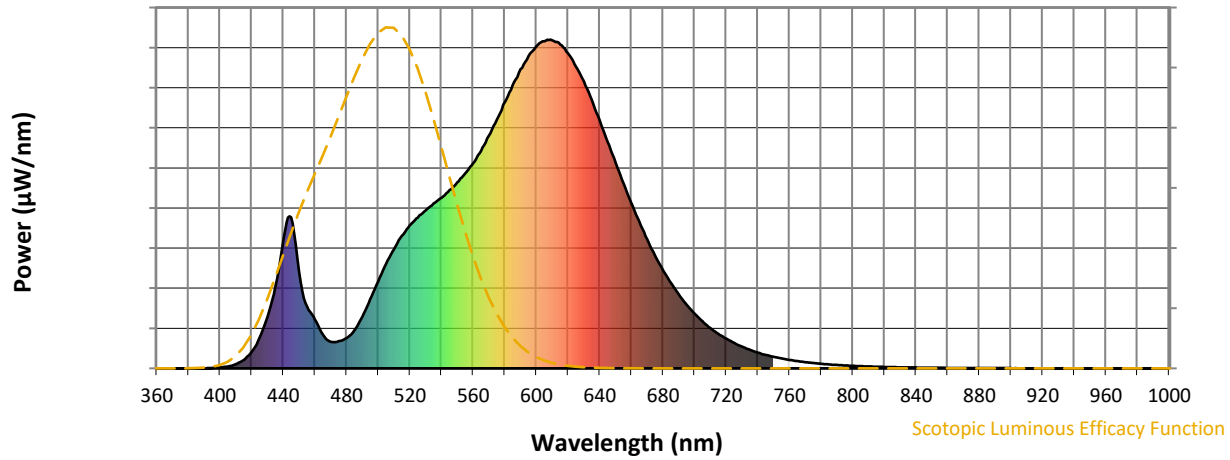


### Photopic Lumens: NR

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

REPORT NUMBER: SP1-2407-184-8

### Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

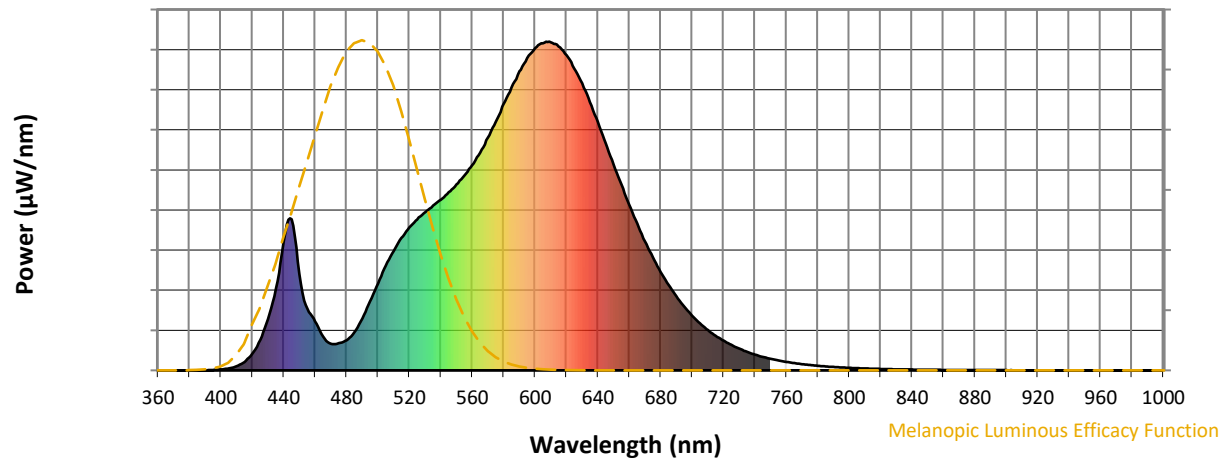
S/P: 1.2

| 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               |           |                             |                  |



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### Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.16

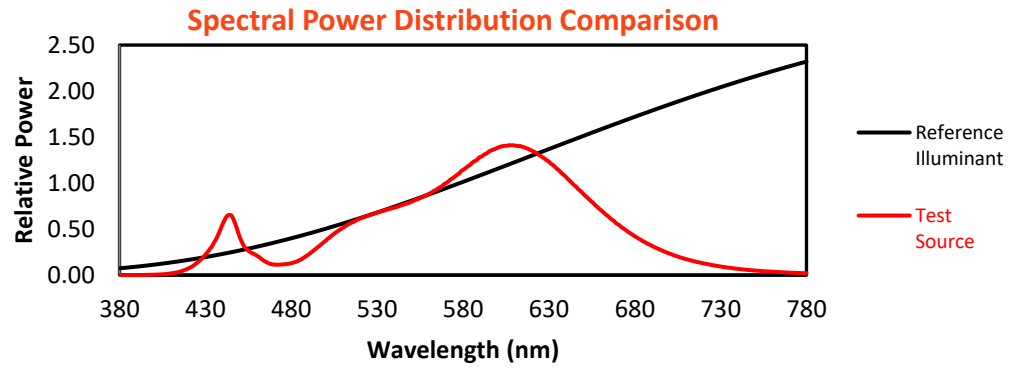
| $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power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

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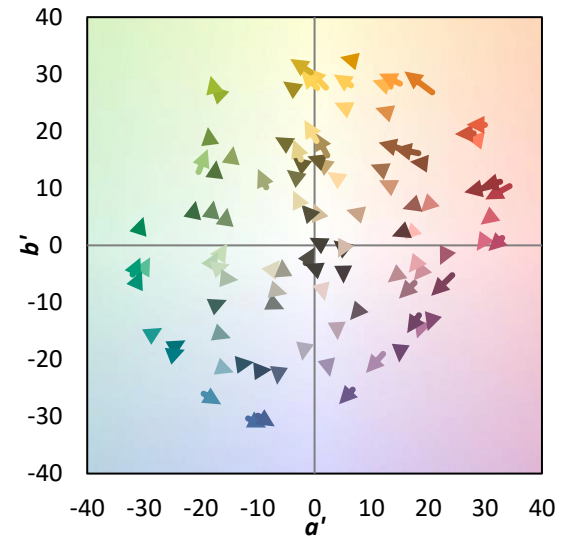
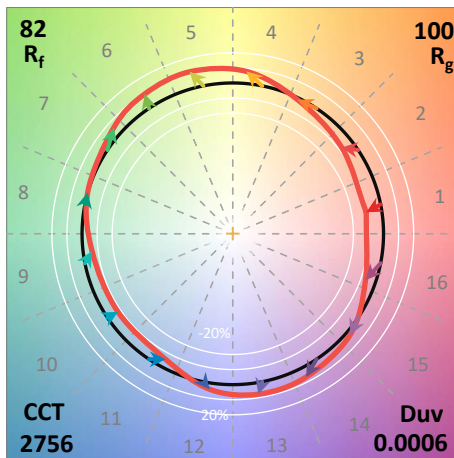
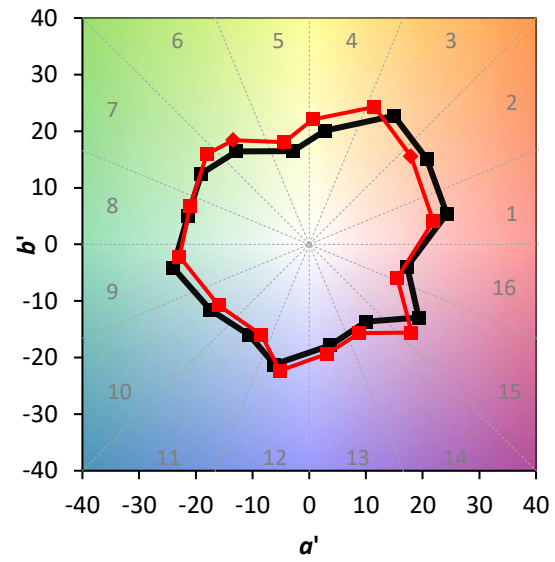
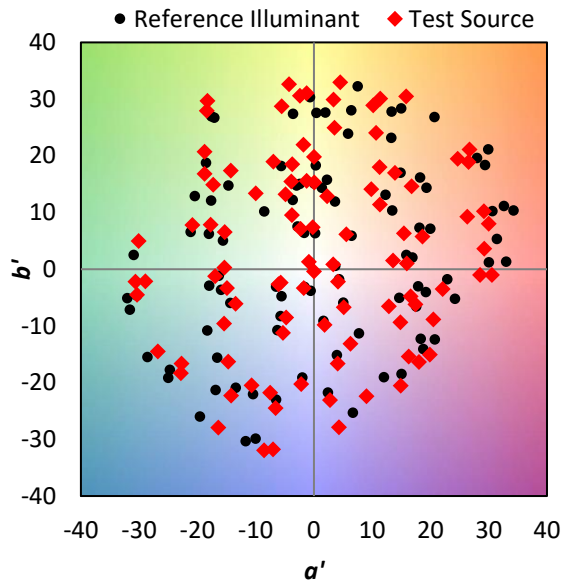
TM-30-18

### Summary

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

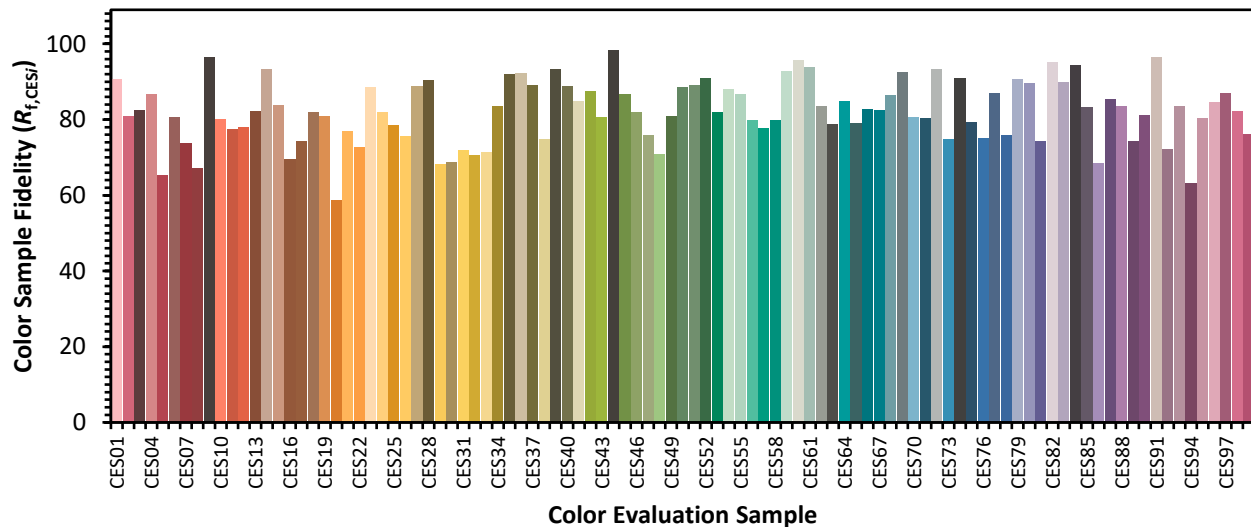


### Color Vector Graphics

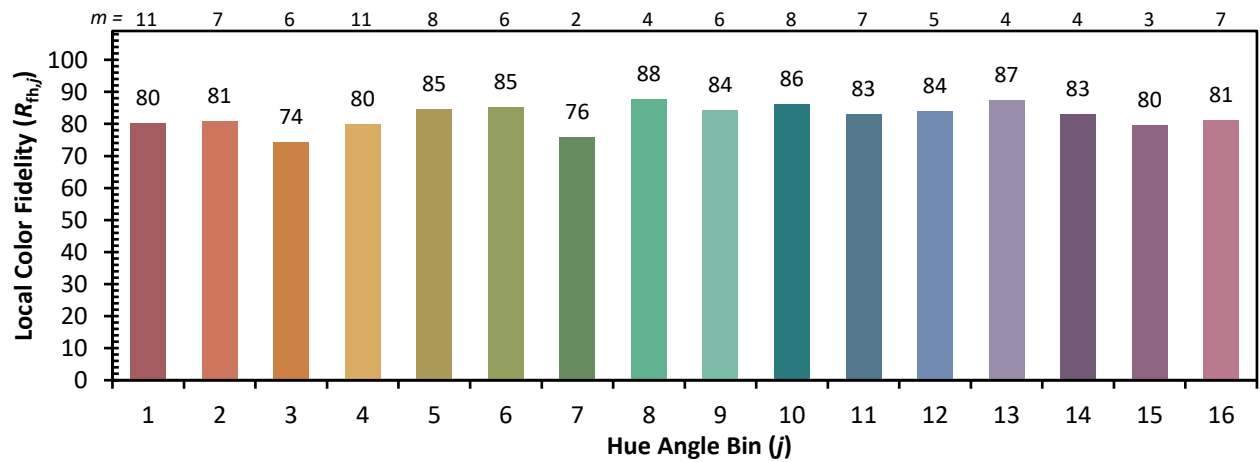
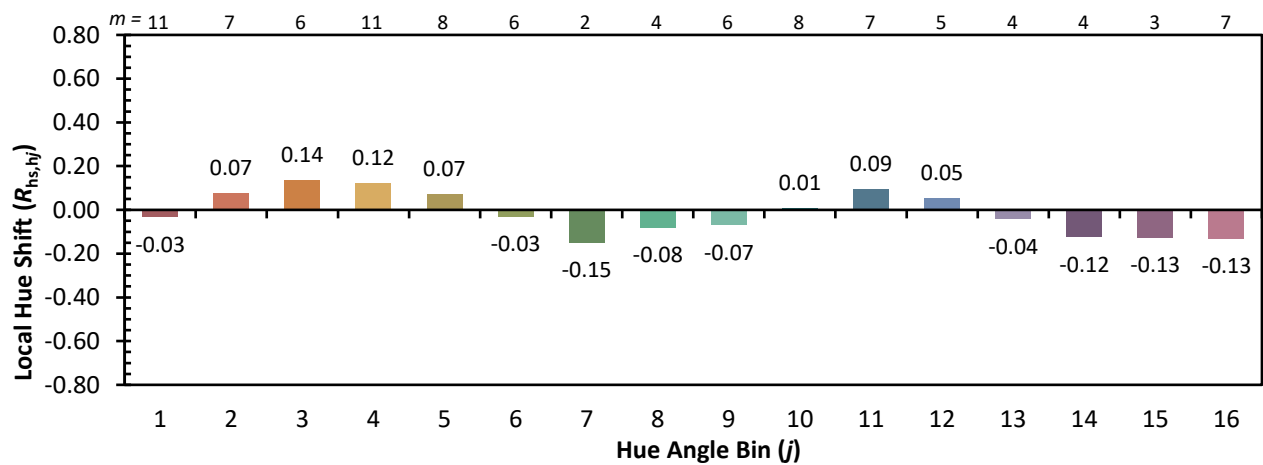
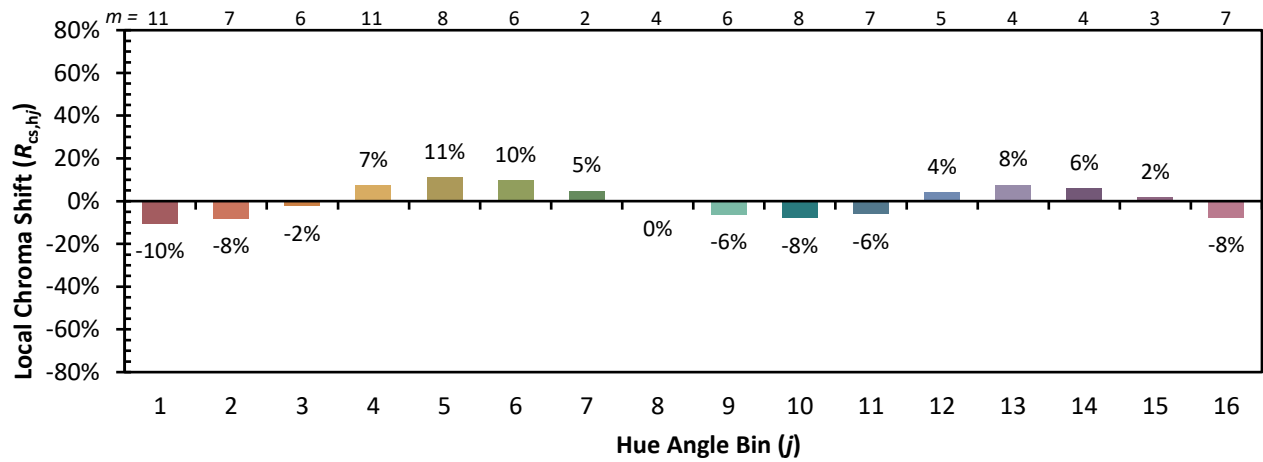


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

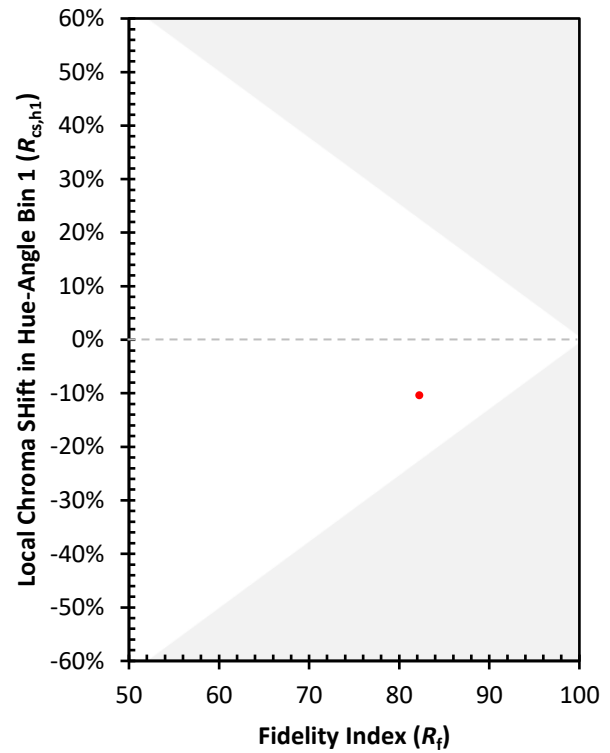
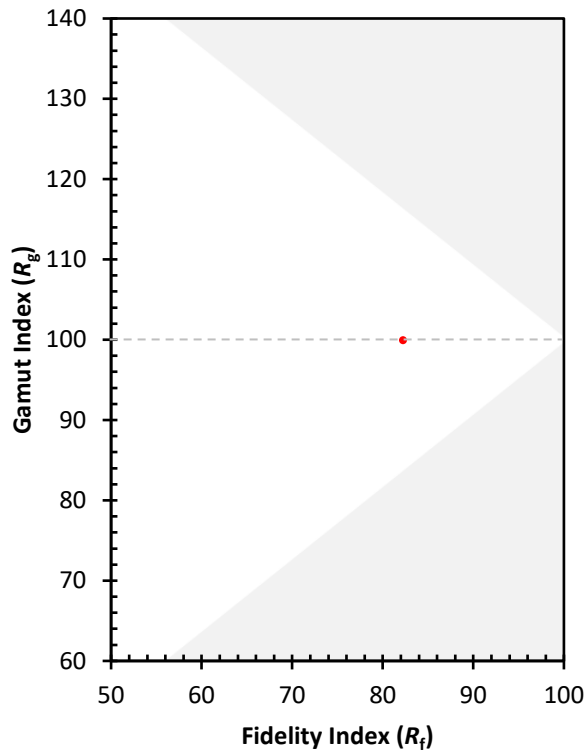
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 76 | CES51 = 89 | CES76 = 75 |
| CES02 = 63 | CES27 = 89 | CES52 = 91 | CES77 = 87 |
| CES03 = 31 | CES28 = 90 | CES53 = 82 | CES78 = 76 |
| CES04 = 71 | CES29 = 68 | CES54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



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)