

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: P1057689

Luminaire Tested: **GAP-SA2D-750-U-RBC**

Issue Date: 08/07/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1057689  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 08/07/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAP-SA2D-750-U-RBC  
Description: GALLEON PEDESTRAIAN COMPANION 1200mA 2xLight Square PACKAGE 70CRI  
5000K FIXTURE w/ RIGHT CORNER BACKLIGHT CONTROL  
Light Source: (28) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10862.2 lumens  
Efficiency: N/A  
Efficacy: 100.4 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

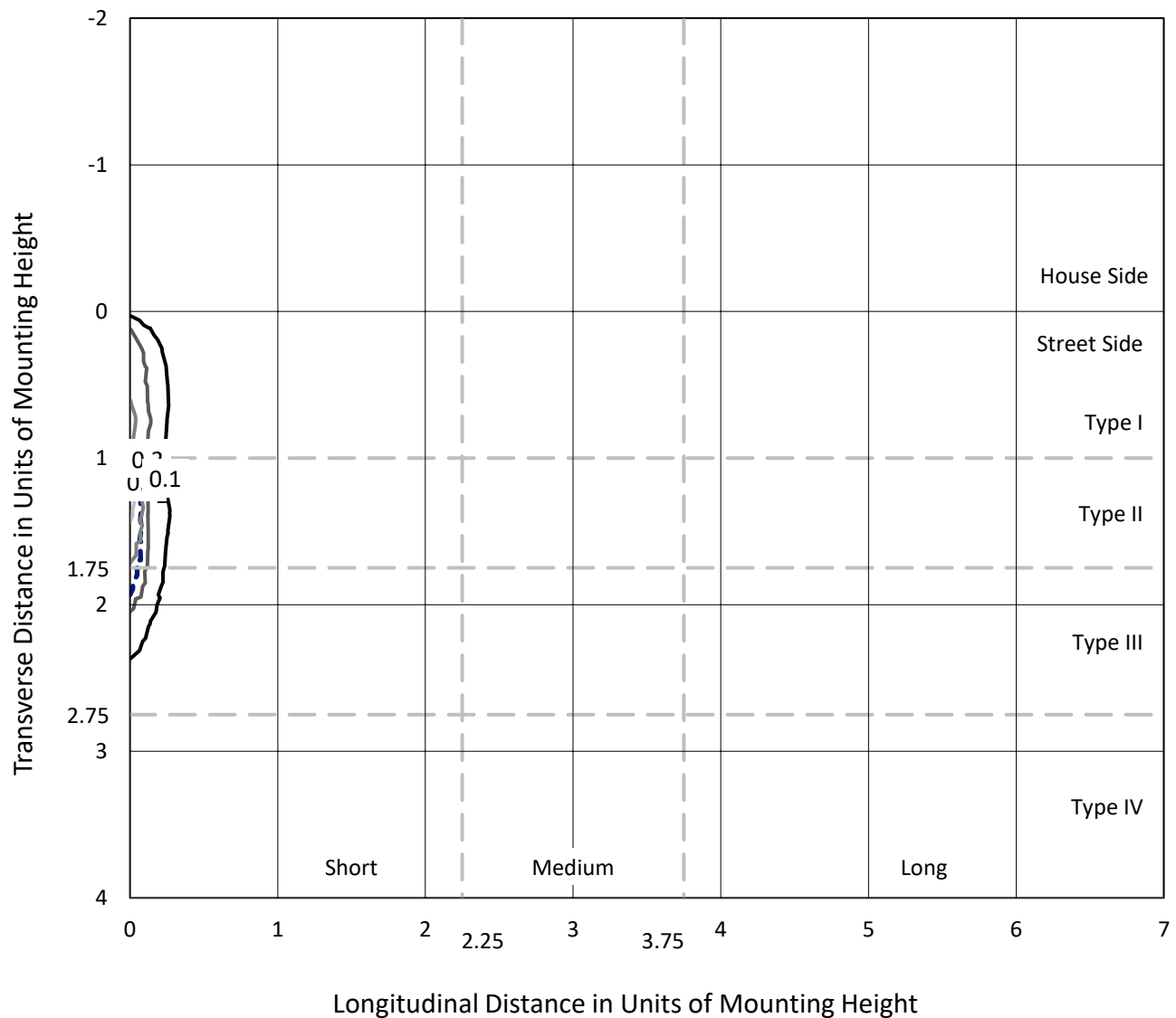


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

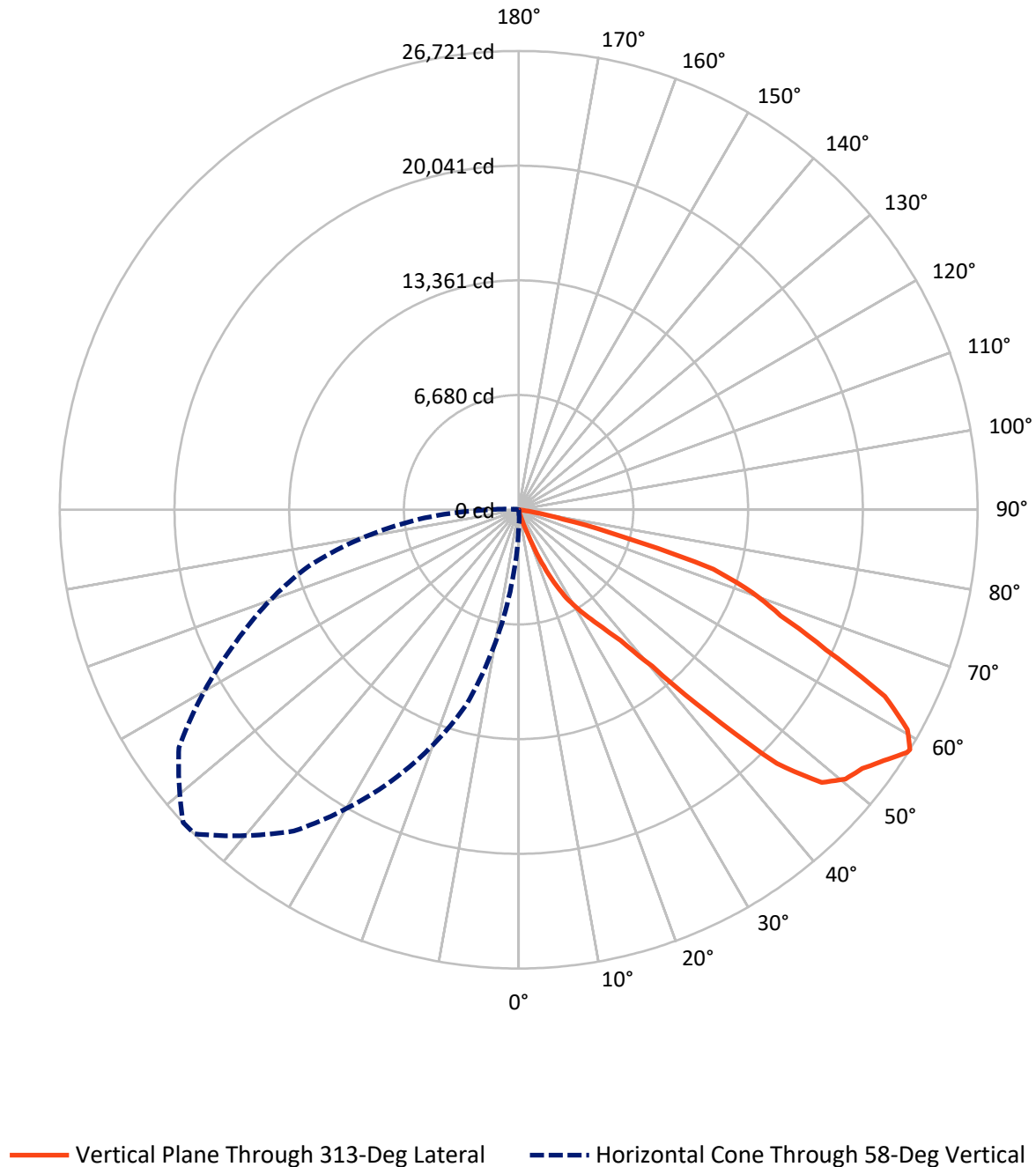


Based on 15 foot mounting height. Maximum calculated value = 1.3 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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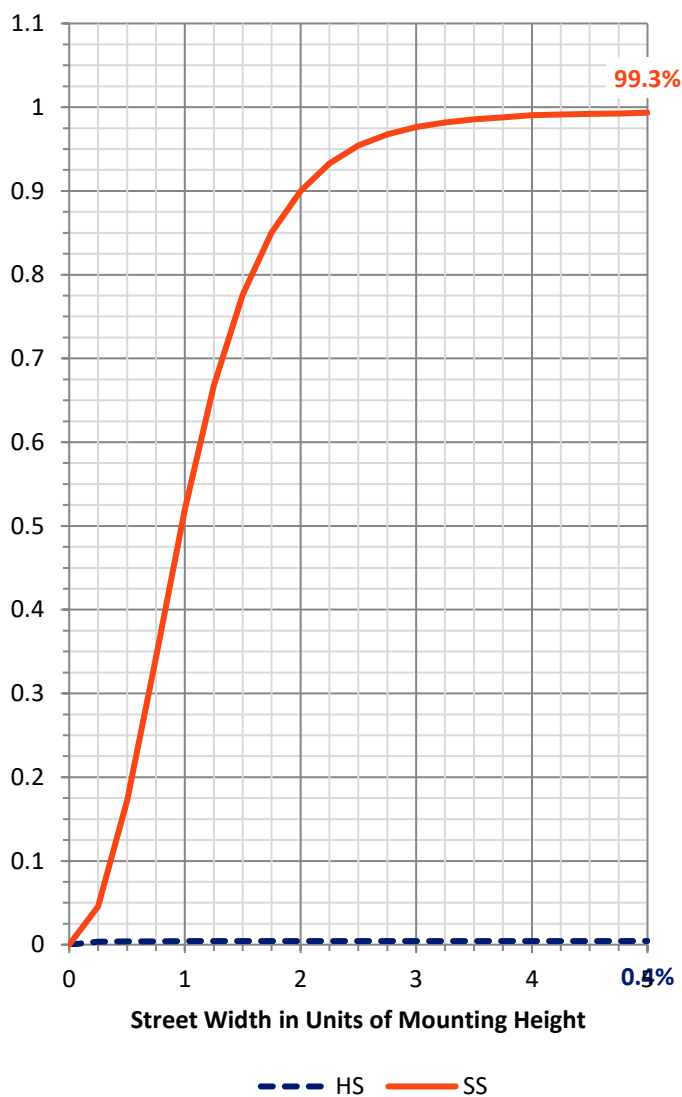
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 48.6     | 0.0    | 48.6    |
|                    | % Fixture | 0.4      | 0.0    | 0.4     |
| <b>Street Side</b> | Lumens    | 10813.7  | 0.0    | 10813.7 |
|                    | % Fixture | 99.6     | 0.0    | 99.6    |
| <b>Total</b>       | Lumens    | 10862.2  | 0.0    | 10862.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1.6     | 0.0       |
| 10°-20°   | 18.9    | 0.2       |
| 20°-30°   | 274.3   | 2.5       |
| 30°-40°   | 788.6   | 7.3       |
| 40°-50°   | 2246.4  | 20.7      |
| 50°-60°   | 3533.5  | 32.5      |
| 60°-70°   | 3013.3  | 27.7      |
| 70°-80°   | 961.2   | 8.8       |
| 80°-90°   | 24.5    | 0.2       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 10862.2 | 100.0     |
| 0°-180°   | 10862.2 | 100.0     |



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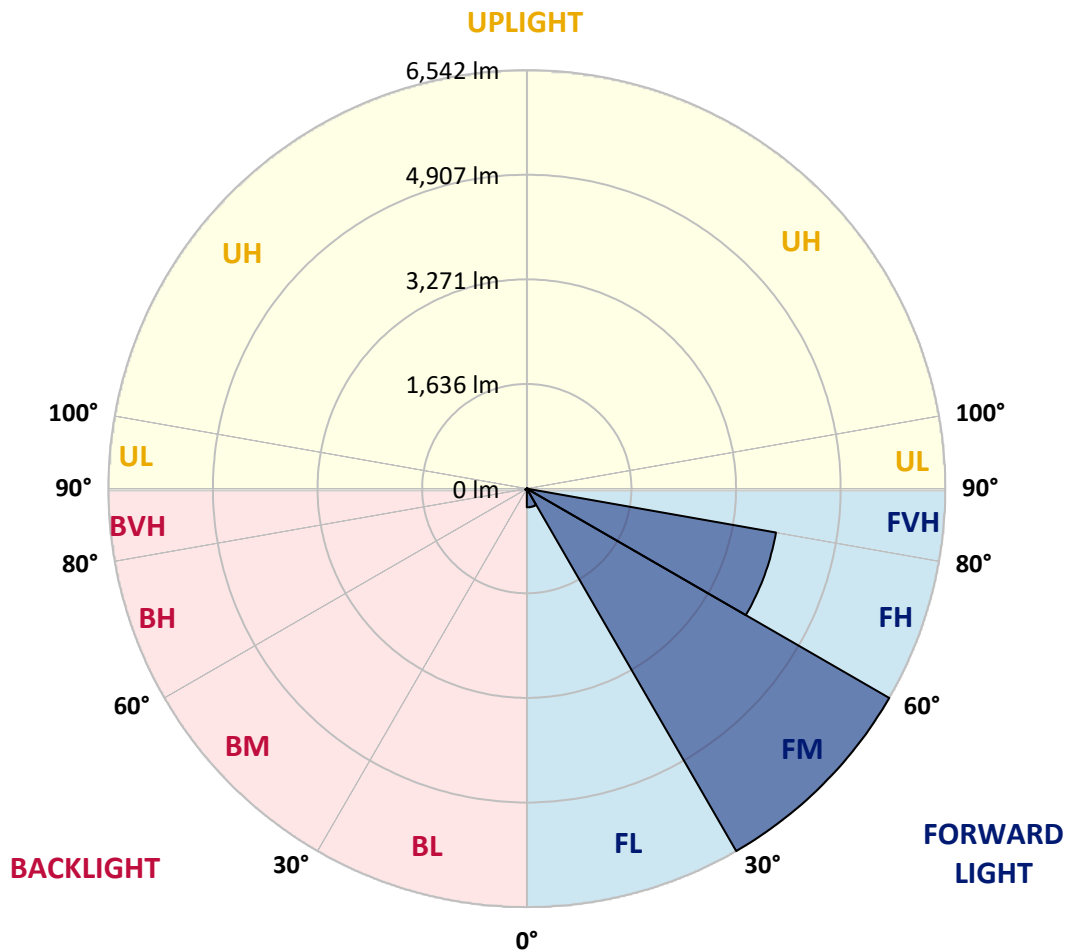
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 292.8  | 2.7       |                         |      |         |
| FM   | (30°-60°)   | 6542.5 | 60.2      |                         |      |         |
| FH   | (60°-80°)   | 3955.2 | 36.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 23.1   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1.9    | 0.0       | B0/110                  |      |         |
| BM   | (30°-60°)   | 26.0   | 0.2       | B0/220                  |      |         |
| BH   | (60°-80°)   | 19.3   | 0.2       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 1.3    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°    | 15°   | 25°  | 35°  | 45°  | 47°  | 55°  | 65°  | 75°  | 85°  |
|-------|--------|-------|-------|------|------|------|------|------|------|------|------|
| 0°    | 15.2   | 15.2  | 15.2  | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| 2.5°  | 39.1   | 41.3  | 43.5  | 41.3 | 37.0 | 28.3 | 28.3 | 21.7 | 15.2 | 8.7  | 6.5  |
| 5°    | 43.5   | 43.5  | 43.5  | 41.3 | 37.0 | 28.3 | 26.1 | 19.6 | 13.0 | 8.7  | 4.3  |
| 7.5°  | 47.8   | 47.8  | 45.7  | 41.3 | 34.8 | 28.3 | 26.1 | 19.6 | 13.0 | 6.5  | 0.0  |
| 10°   | 52.2   | 52.2  | 47.8  | 43.5 | 34.8 | 26.1 | 23.9 | 17.4 | 10.9 | 4.3  | 0.0  |
| 12.5° | 58.7   | 56.5  | 50.0  | 43.5 | 34.8 | 23.9 | 23.9 | 17.4 | 8.7  | 2.2  | 0.0  |
| 15°   | 67.4   | 60.9  | 52.2  | 43.5 | 32.6 | 23.9 | 21.7 | 15.2 | 6.5  | 0.0  | 0.0  |
| 17.5° | 73.9   | 67.4  | 54.3  | 41.3 | 30.4 | 21.7 | 19.6 | 13.0 | 6.5  | 0.0  | 0.0  |
| 20°   | 80.4   | 69.6  | 54.3  | 41.3 | 30.4 | 19.6 | 17.4 | 10.9 | 2.2  | 0.0  | 0.0  |
| 22.5° | 91.3   | 73.9  | 54.3  | 41.3 | 28.3 | 17.4 | 15.2 | 8.7  | 0.0  | 0.0  | 0.0  |
| 25°   | 113.0  | 78.3  | 54.3  | 39.1 | 26.1 | 15.2 | 13.0 | 4.3  | 0.0  | 0.0  | 0.0  |
| 27.5° | 139.1  | 84.8  | 54.3  | 37.0 | 23.9 | 13.0 | 10.9 | 2.2  | 0.0  | 0.0  | 0.0  |
| 30°   | 167.4  | 91.3  | 54.3  | 37.0 | 21.7 | 10.9 | 8.7  | 0.0  | 0.0  | 0.0  | 0.0  |
| 32.5° | 197.8  | 100.0 | 54.3  | 34.8 | 19.6 | 8.7  | 6.5  | 0.0  | 0.0  | 0.0  | 0.0  |
| 35°   | 254.3  | 113.0 | 54.3  | 34.8 | 17.4 | 6.5  | 4.3  | 0.0  | 0.0  | 0.0  | 0.0  |
| 37.5° | 280.4  | 130.4 | 54.3  | 32.6 | 17.4 | 4.3  | 2.2  | 0.0  | 0.0  | 0.0  | 0.0  |
| 40°   | 291.3  | 126.1 | 52.2  | 32.6 | 15.2 | 2.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 42.5° | 315.2  | 117.4 | 54.3  | 30.4 | 15.2 | 2.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 45°   | 384.8  | 117.4 | 58.7  | 30.4 | 13.0 | 4.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 47.5° | 667.4  | 121.7 | 56.5  | 30.4 | 13.0 | 4.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 50°   | 1097.8 | 143.5 | 54.3  | 32.6 | 15.2 | 2.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 52.5° | 1273.9 | 173.9 | 54.3  | 34.8 | 19.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 55°   | 1221.7 | 213.0 | 54.3  | 37.0 | 23.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 57.5° | 1110.8 | 202.2 | 58.7  | 43.5 | 30.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 58°   | 1069.5 | 202.2 | 58.7  | 43.5 | 30.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 60°   | 839.1  | 206.5 | 67.4  | 47.8 | 32.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 62.5° | 623.9  | 210.9 | 76.1  | 54.3 | 32.6 | 2.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 65°   | 463.0  | 219.6 | 80.4  | 63.0 | 30.4 | 4.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 67.5° | 369.6  | 226.1 | 87.0  | 69.6 | 34.8 | 8.7  | 2.2  | 0.0  | 0.0  | 0.0  | 0.0  |
| 70°   | 317.4  | 217.4 | 93.5  | 71.7 | 32.6 | 13.0 | 6.5  | 0.0  | 0.0  | 0.0  | 0.0  |
| 72.5° | 282.6  | 204.3 | 106.5 | 69.6 | 34.8 | 13.0 | 6.5  | 0.0  | 0.0  | 0.0  | 0.0  |
| 75°   | 254.3  | 187.0 | 121.7 | 67.4 | 34.8 | 13.0 | 8.7  | 0.0  | 0.0  | 0.0  | 0.0  |
| 77.5° | 191.3  | 163.0 | 119.6 | 65.2 | 32.6 | 13.0 | 8.7  | 0.0  | 0.0  | 0.0  | 0.0  |
| 80°   | 95.7   | 108.7 | 104.3 | 58.7 | 26.1 | 10.9 | 8.7  | 2.2  | 0.0  | 0.0  | 0.0  |
| 82.5° | 39.1   | 41.3  | 52.2  | 43.5 | 21.7 | 8.7  | 8.7  | 2.2  | 0.0  | 0.0  | 0.0  |
| 85°   | 4.3    | 8.7   | 15.2  | 17.4 | 15.2 | 8.7  | 8.7  | 2.2  | 0.0  | 0.0  | 0.0  |
| 87.5° | 0.0    | 2.2   | 8.7   | 13.0 | 10.9 | 6.5  | 4.3  | 0.0  | 0.0  | 0.0  | 0.0  |
| 90°   | 0.0    | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°  | 95°  | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0°    | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| 2.5°  | 4.3  | 4.3  | 2.2  | 2.2  | 2.2  | 2.2  | 2.2  | 2.2  | 2.2  | 2.2  | 2.2  |
| 5°    | 2.2  | 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°    | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2  | 15.2   | 15.2   |
| 2.5°  | 2.2  | 4.3  | 4.3  | 4.3  | 6.5  | 6.5  | 8.7  | 10.9 | 10.9  | 10.9   | 13.0   |
| 5°    | 0.0  | 0.0  | 2.2  | 2.2  | 4.3  | 6.5  | 8.7  | 13.0 | 15.2  | 15.2   | 17.4   |
| 7.5°  | 0.0  | 0.0  | 0.0  | 2.2  | 4.3  | 6.5  | 8.7  | 13.0 | 17.4  | 19.6   | 21.7   |
| 10°   | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  | 4.3  | 8.7  | 15.2 | 21.7  | 26.1   | 30.4   |
| 12.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  | 8.7  | 17.4 | 26.1  | 32.6   | 37.0   |
| 15°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  | 8.7  | 17.4 | 32.6  | 39.1   | 47.8   |
| 17.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.7  | 19.6 | 37.0  | 47.8   | 65.2   |
| 20°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.5  | 19.6 | 41.3  | 58.7   | 97.8   |
| 22.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.5  | 19.6 | 45.7  | 76.1   | 180.4  |
| 25°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.3  | 19.6 | 52.2  | 113.0  | 300.0  |
| 27.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.3  | 21.7 | 63.0  | 158.7  | 439.1  |
| 30°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.3  | 21.7 | 78.3  | 215.2  | 613.0  |
| 32.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  | 21.7 | 91.3  | 271.7  | 834.8  |
| 35°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 19.6 | 108.7 | 360.9  | 1047.8 |
| 37.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 19.6 | 134.8 | 397.8  | 1228.2 |
| 40°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 17.4 | 128.3 | 432.6  | 1434.8 |
| 42.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 19.6 | 117.4 | 482.6  | 1758.7 |
| 45°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 19.6 | 117.4 | 639.1  | 2476.0 |
| 47.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 17.4 | 143.5 | 995.6  | 3784.7 |
| 50°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 13.0 | 184.8 | 1528.2 | 5389.0 |
| 52.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 10.9 | 223.9 | 1880.4 | 6319.4 |
| 55°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 10.9 | 269.6 | 1882.6 | 6289.0 |
| 57.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 13.0 | 300.0 | 1684.7 | 5676.0 |
| 58°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 15.2 | 297.8 | 1630.4 | 5506.4 |
| 60°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  | 21.7 | 260.9 | 1415.2 | 4806.4 |
| 62.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.7  | 34.8 | 228.3 | 1015.2 | 3984.7 |
| 65°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 17.4 | 39.1 | 208.7 | 736.9  | 2991.2 |
| 67.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 21.7 | 45.7 | 200.0 | 521.7  | 2080.4 |
| 70°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 26.1 | 52.2 | 184.8 | 373.9  | 1369.5 |
| 72.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 26.1 | 65.2 | 173.9 | 293.5  | 826.1  |
| 75°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 26.1 | 82.6 | 152.2 | 239.1  | 443.5  |
| 77.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 26.1 | 89.1 | 126.1 | 173.9  | 269.6  |
| 80°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 23.9 | 80.4 | 91.3  | 76.1   | 91.3   |
| 82.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 13.0 | 47.8 | 19.6  | 19.6   | 30.4   |
| 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: P1057689

CATALOG NUMBER: GAP-SA2D-750-U-RBC

**CANDELA DISTRIBUTION (continued):**

|       | 285°    | 295°    | 305°    | 313°    | 315°    | 325°    | 335°    | 345°    | 355°   | 360°   |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0°    | 15.2    | 15.2    | 15.2    | 15.2    | 15.2    | 15.2    | 15.2    | 15.2    | 15.2   | 15.2   |
| 2.5°  | 15.2    | 15.2    | 15.2    | 15.2    | 17.4    | 17.4    | 23.9    | 30.4    | 37.0   | 39.1   |
| 5°    | 19.6    | 21.7    | 23.9    | 23.9    | 23.9    | 26.1    | 30.4    | 34.8    | 41.3   | 43.5   |
| 7.5°  | 28.3    | 30.4    | 34.8    | 34.8    | 34.8    | 37.0    | 39.1    | 43.5    | 47.8   | 47.8   |
| 10°   | 37.0    | 43.5    | 45.7    | 47.8    | 50.0    | 50.0    | 50.0    | 52.2    | 54.3   | 52.2   |
| 12.5° | 50.0    | 58.7    | 69.6    | 71.7    | 71.7    | 71.7    | 69.6    | 65.2    | 60.9   | 58.7   |
| 15°   | 69.6    | 95.7    | 130.4   | 143.5   | 137.0   | 121.7   | 106.5   | 82.6    | 71.7   | 67.4   |
| 17.5° | 128.3   | 260.9   | 473.9   | 523.9   | 513.0   | 441.3   | 258.7   | 126.1   | 84.8   | 73.9   |
| 20°   | 345.6   | 843.5   | 1391.3  | 1523.9  | 1593.4  | 1319.5  | 763.0   | 293.5   | 104.3  | 80.4   |
| 22.5° | 745.6   | 1752.1  | 2715.2  | 3058.6  | 3080.4  | 2478.2  | 1484.8  | 595.6   | 150.0  | 91.3   |
| 25°   | 1200.0  | 2802.1  | 4115.1  | 4447.7  | 4454.3  | 3819.5  | 2373.9  | 965.2   | 228.3  | 113.0  |
| 27.5° | 1839.1  | 3928.2  | 5397.7  | 5673.8  | 5669.4  | 5026.0  | 3430.4  | 1473.9  | 319.6  | 139.1  |
| 30°   | 2493.4  | 4806.4  | 6243.3  | 6586.8  | 6619.4  | 5849.9  | 4313.0  | 2076.0  | 417.4  | 167.4  |
| 32.5° | 3141.2  | 5456.4  | 7015.1  | 7471.6  | 7443.3  | 6578.1  | 4928.2  | 2569.5  | 584.8  | 197.8  |
| 35°   | 3652.1  | 6010.7  | 7869.4  | 8430.3  | 8452.0  | 7378.1  | 5473.8  | 3047.8  | 728.2  | 254.3  |
| 37.5° | 4089.0  | 6725.9  | 9006.3  | 9654.1  | 9682.4  | 8373.7  | 6045.5  | 3517.3  | 852.2  | 280.4  |
| 40°   | 4628.2  | 7899.8  | 10888.9 | 11988.9 | 11993.2 | 10230.2 | 7073.8  | 4043.4  | 1019.5 | 291.3  |
| 42.5° | 5839.0  | 10415.0 | 14567.1 | 16147.5 | 16284.4 | 14082.3 | 9410.7  | 5184.7  | 1282.6 | 315.2  |
| 45°   | 8260.7  | 13730.2 | 19258.3 | 21077.8 | 21251.7 | 18875.7 | 13417.1 | 7819.4  | 1860.8 | 384.8  |
| 47.5° | 11141.1 | 16612.7 | 21984.3 | 23736.5 | 23851.7 | 21143.0 | 16099.7 | 10867.2 | 3167.3 | 667.4  |
| 50°   | 12912.8 | 17680.1 | 22986.5 | 24658.2 | 24677.8 | 21888.7 | 16941.0 | 12449.7 | 4513.0 | 1097.8 |
| 52.5° | 13462.8 | 17817.0 | 23025.6 | 25047.3 | 25103.8 | 21801.7 | 17056.2 | 12769.3 | 5073.8 | 1273.9 |
| 55°   | 13238.9 | 17736.6 | 23438.6 | 25790.8 | 25851.6 | 22156.1 | 16977.9 | 12419.3 | 4810.8 | 1221.7 |
| 57.5° | 12728.0 | 18049.6 | 24116.9 | 26673.4 | 26673.4 | 22810.4 | 17267.0 | 11832.4 | 4167.3 | 1110.8 |
| 58°   | 12651.9 | 18127.9 | 24153.9 | 26721.2 | 26701.6 | 22851.7 | 17386.6 | 11747.6 | 4026.0 | 1069.5 |
| 60°   | 12547.6 | 18369.2 | 23879.9 | 26014.7 | 25958.2 | 22560.4 | 17604.0 | 11671.5 | 3341.2 | 839.1  |
| 62.5° | 12395.4 | 17825.7 | 21884.3 | 23936.5 | 23790.8 | 20519.1 | 16980.1 | 11225.9 | 2493.4 | 623.9  |
| 65°   | 11615.0 | 15819.2 | 18243.1 | 19664.8 | 19619.2 | 16880.1 | 14614.9 | 10056.3 | 1795.6 | 463.0  |
| 67.5° | 9791.1  | 12384.5 | 14736.7 | 16449.7 | 16460.5 | 13780.2 | 11430.2 | 8036.8  | 1221.7 | 369.6  |
| 70°   | 6886.8  | 9134.6  | 12528.0 | 14434.5 | 14521.4 | 11558.5 | 8467.2  | 5356.4  | 806.5  | 317.4  |
| 72.5° | 4113.0  | 6899.9  | 10417.2 | 11865.0 | 11819.3 | 9591.1  | 6282.5  | 3193.4  | 491.3  | 282.6  |
| 75°   | 1993.4  | 4123.8  | 5265.1  | 6106.4  | 6071.6  | 4797.7  | 3347.8  | 1565.2  | 358.7  | 254.3  |
| 77.5° | 541.3   | 1267.4  | 2039.1  | 2652.1  | 2723.9  | 1921.7  | 1097.8  | 419.6   | 223.9  | 191.3  |
| 80°   | 182.6   | 391.3   | 665.2   | 904.3   | 928.2   | 830.4   | 413.0   | 147.8   | 97.8   | 95.7   |
| 82.5° | 69.6    | 95.7    | 121.7   | 108.7   | 108.7   | 113.0   | 89.1    | 63.0    | 45.7   | 39.1   |
| 85°   | 0.0     | 0.0     | 2.2     | 4.3     | 4.3     | 6.5     | 6.5     | 6.5     | 4.3    | 4.3    |
| 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: SP1-2407-184-6

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-750-U-5WQ

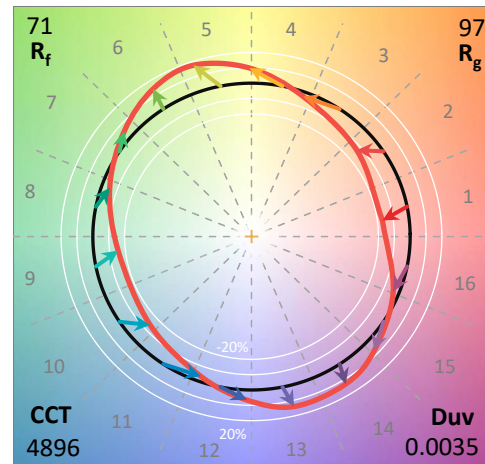
Data in this report applies to families of products including GSS-SB1A-750-U-5WQ

### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2407-184-6  
 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-750-U-5WQ**  
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI  
 5000K CCT 26 LEDS

### Spectral Parameters

|                           |          |           |      |      |       |
|---------------------------|----------|-----------|------|------|-------|
| CCT (K):                  | 4896     | CRI (Ra): | 70.2 |      |       |
| CIE u':                   | 0.2101   | R1:       | 68.1 | R9:  | -35.1 |
| CIE v':                   | 0.4901   | R2:       | 73.9 | R10: | 39.3  |
| Duv:                      | 0.0035   | R3:       | 79.4 | R11: | 71.1  |
| CIE x:                    | 0.3489   | R4:       | 72.1 | R12: | 43.8  |
| CIE y:                    | 0.3618   | R5:       | 69.2 | R13: | 68.1  |
| CIE z:                    | 0.2893   | R6:       | 65.7 | R14: | 88.4  |
| Peak Wavelength (nm):     | 443      | R7:       | 78.1 | R15: | 59.7  |
| Dominant Wavelength (nm): | 570      | R8:       | 55.3 |      |       |
| Purity:                   | 13.25435 |           |      |      |       |
| Rf:                       | 70.7     |           |      |      |       |
| Rg:                       | 96.8     |           |      |      |       |



### Test Conditions

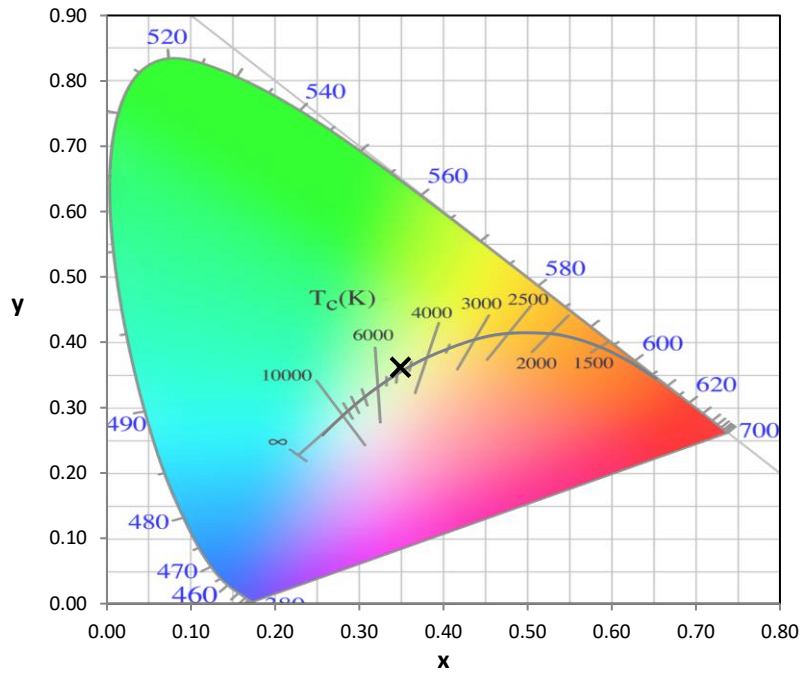
Stabilization Time: 21M  
 Operation Time: 1H 21M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-6

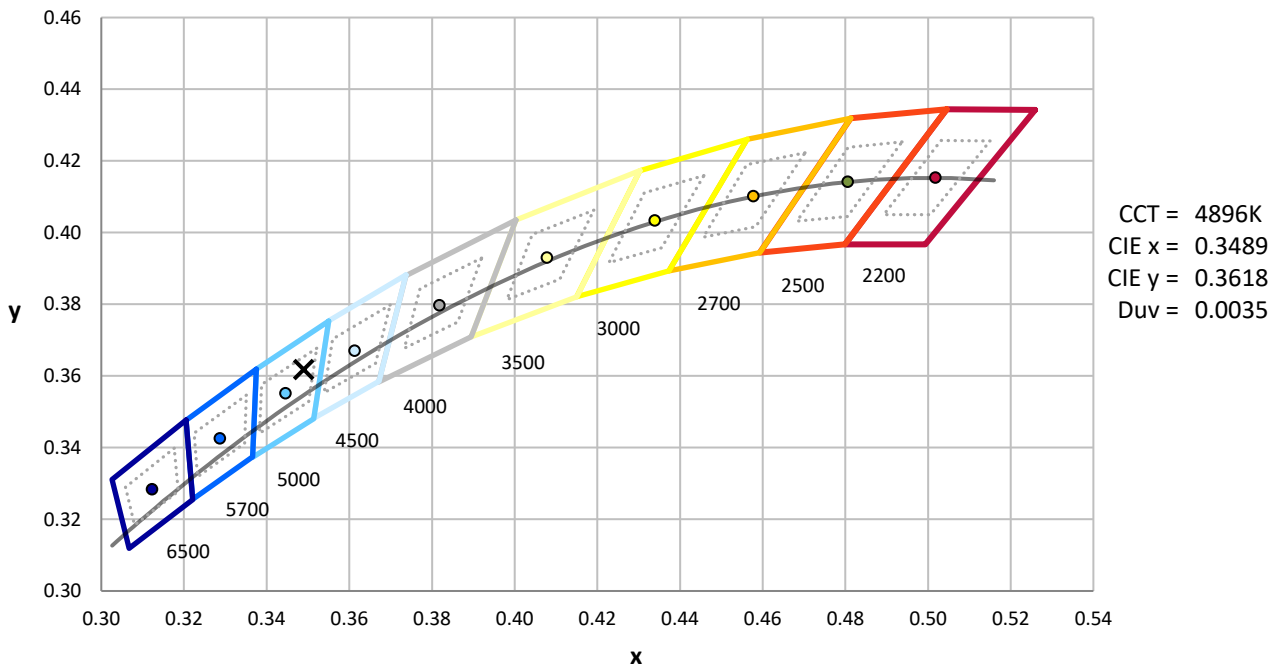
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| 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: SP1-2407-184-6

**CIE 1931 Chromaticity Diagram**



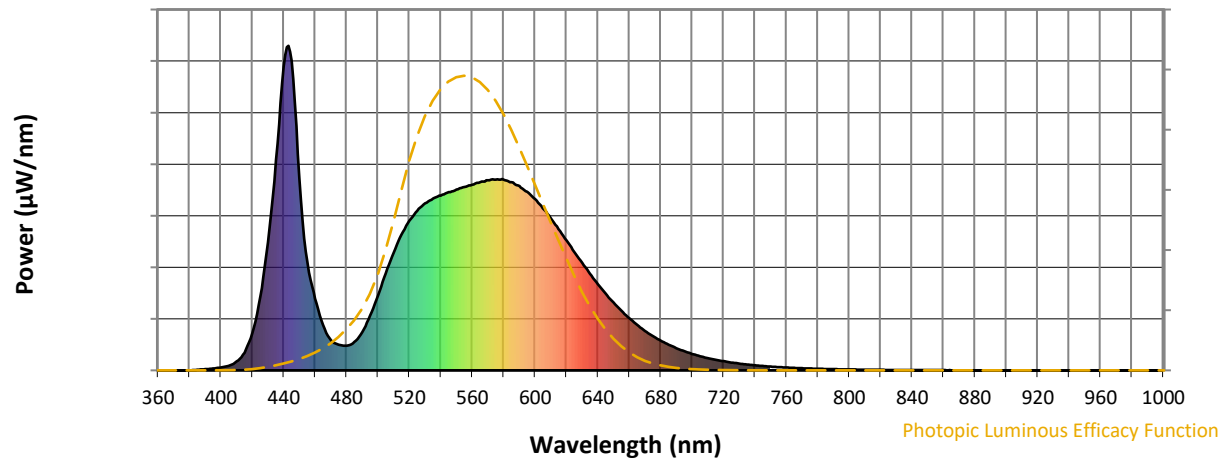
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-6

### Photopic Flux vs. Wavelength

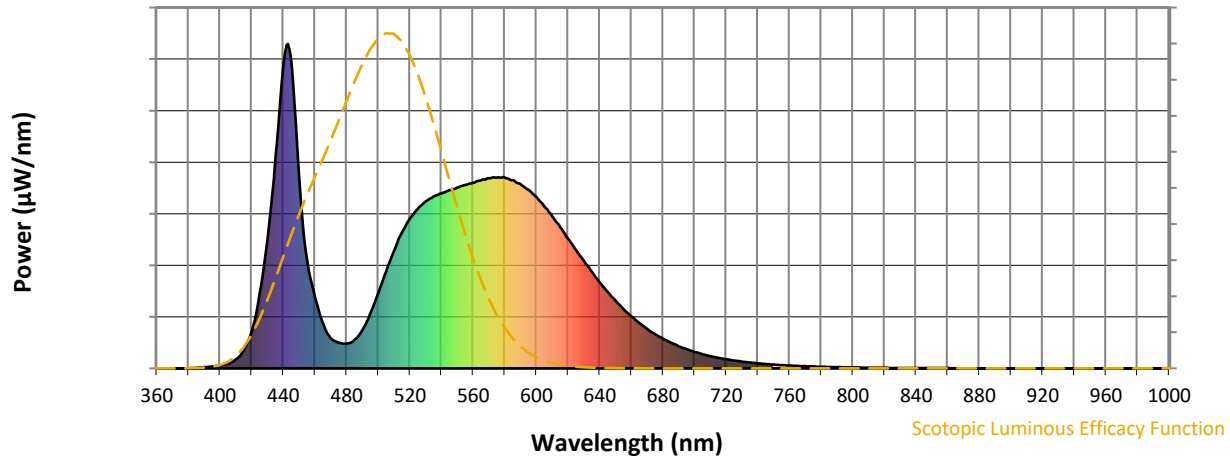


### Photopic Lumens: NR

| λ (nm) | Power W <sup>λ</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>λ</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>λ</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>λ</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>λ</sup> /nm | Lumens (φ/nm) |
|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|
| 360    | 0                        | NR            | 490    | 118                      | NR            | 620    | 401                      | NR            | 750    | 12                       | NR            | 880    | 0                        | NR            |
| 365    | 0                        | NR            | 495    | 168                      | NR            | 625    | 365                      | NR            | 755    | 10                       | NR            | 885    | 0                        | NR            |
| 370    | 0                        | NR            | 500    | 230                      | NR            | 630    | 331                      | NR            | 760    | 9                        | NR            | 890    | 0                        | NR            |
| 375    | 0                        | NR            | 505    | 299                      | NR            | 635    | 298                      | NR            | 765    | 8                        | NR            | 895    | 0                        | NR            |
| 380    | 0                        | NR            | 510    | 362                      | NR            | 640    | 266                      | NR            | 770    | 6                        | NR            | 900    | 0                        | NR            |
| 385    | 2                        | NR            | 515    | 418                      | NR            | 645    | 236                      | NR            | 775    | 6                        | NR            | 905    | 0                        | NR            |
| 390    | 4                        | NR            | 520    | 461                      | NR            | 650    | 209                      | NR            | 780    | 5                        | NR            | 910    | 0                        | NR            |
| 395    | 6                        | NR            | 525    | 491                      | NR            | 655    | 184                      | NR            | 785    | 4                        | NR            | 915    | 0                        | NR            |
| 400    | 9                        | NR            | 530    | 514                      | NR            | 660    | 160                      | NR            | 790    | 4                        | NR            | 920    | 0                        | NR            |
| 405    | 14                       | NR            | 535    | 530                      | NR            | 665    | 140                      | NR            | 795    | 3                        | NR            | 925    | 0                        | NR            |
| 410    | 27                       | NR            | 540    | 539                      | NR            | 670    | 122                      | NR            | 800    | 3                        | NR            | 930    | 0                        | NR            |
| 415    | 55                       | NR            | 545    | 549                      | NR            | 675    | 106                      | NR            | 805    | 2                        | NR            | 935    | 0                        | NR            |
| 420    | 115                      | NR            | 550    | 557                      | NR            | 680    | 92                       | NR            | 810    | 2                        | NR            | 940    | 0                        | NR            |
| 425    | 226                      | NR            | 555    | 565                      | NR            | 685    | 79                       | NR            | 815    | 2                        | NR            | 945    | 0                        | NR            |
| 430    | 395                      | NR            | 560    | 572                      | NR            | 690    | 68                       | NR            | 820    | 2                        | NR            | 950    | 0                        | NR            |
| 435    | 648                      | NR            | 565    | 580                      | NR            | 695    | 59                       | NR            | 825    | 1                        | NR            | 955    | 0                        | NR            |
| 440    | 937                      | NR            | 570    | 586                      | NR            | 700    | 51                       | NR            | 830    | 1                        | NR            | 960    | 0                        | NR            |
| 445    | 953                      | NR            | 575    | 588                      | NR            | 705    | 44                       | NR            | 835    | 1                        | NR            | 965    | 0                        | NR            |
| 450    | 591                      | NR            | 580    | 588                      | NR            | 710    | 38                       | NR            | 840    | 1                        | NR            | 970    | 0                        | NR            |
| 455    | 334                      | NR            | 585    | 580                      | NR            | 715    | 32                       | NR            | 845    | 1                        | NR            | 975    | 0                        | NR            |
| 460    | 221                      | NR            | 590    | 568                      | NR            | 720    | 28                       | NR            | 850    | 1                        | NR            | 980    | 0                        | NR            |
| 465    | 140                      | NR            | 595    | 550                      | NR            | 725    | 24                       | NR            | 855    | 1                        | NR            | 985    | 0                        | NR            |
| 470    | 93                       | NR            | 600    | 527                      | NR            | 730    | 21                       | NR            | 860    | 1                        | NR            | 990    | 0                        | NR            |
| 475    | 79                       | NR            | 605    | 499                      | NR            | 735    | 18                       | NR            | 865    | 0                        | NR            | 995    | 0                        | NR            |
| 480    | 76                       | NR            | 610    | 469                      | NR            | 740    | 15                       | NR            | 870    | 0                        | NR            | 1000   | 0                        | NR            |
| 485    | 87                       | NR            | 615    | 435                      | NR            | 745    | 13                       | NR            | 875    | 0                        | NR            |        |                          |               |

REPORT NUMBER: SP1-2407-184-6

### Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

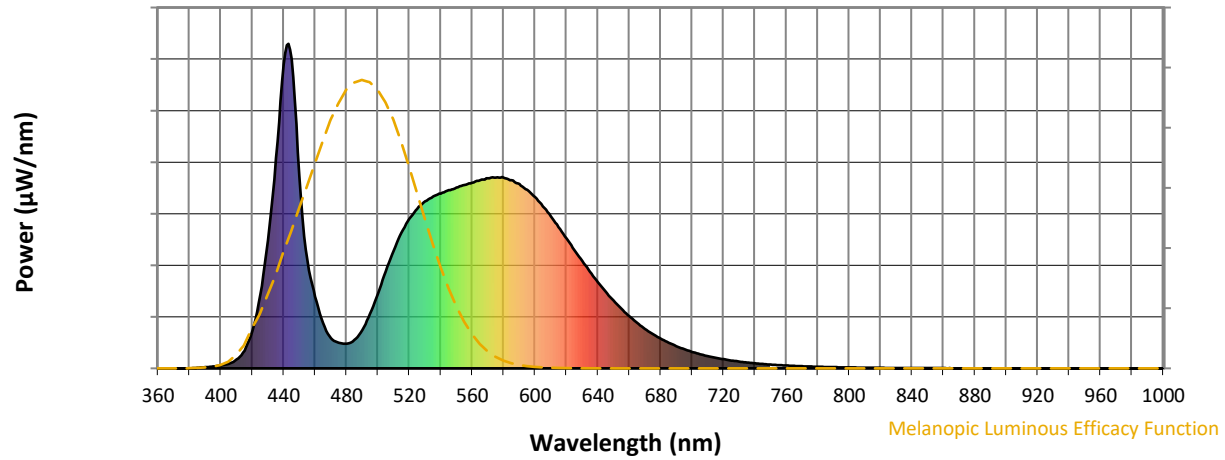
S/P: 1.7

| 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       | 118                         | NR               | 620       | 401                         | NR               | 750       | 12                          | NR               | 880       | 0                           | NR               |
| 365       | 0                           | NR               | 495       | 168                         | NR               | 625       | 365                         | NR               | 755       | 10                          | NR               | 885       | 0                           | NR               |
| 370       | 0                           | NR               | 500       | 230                         | NR               | 630       | 331                         | NR               | 760       | 9                           | NR               | 890       | 0                           | NR               |
| 375       | 0                           | NR               | 505       | 299                         | NR               | 635       | 298                         | NR               | 765       | 8                           | NR               | 895       | 0                           | NR               |
| 380       | 0                           | NR               | 510       | 362                         | NR               | 640       | 266                         | NR               | 770       | 6                           | NR               | 900       | 0                           | NR               |
| 385       | 2                           | NR               | 515       | 418                         | NR               | 645       | 236                         | NR               | 775       | 6                           | NR               | 905       | 0                           | NR               |
| 390       | 4                           | NR               | 520       | 461                         | NR               | 650       | 209                         | NR               | 780       | 5                           | NR               | 910       | 0                           | NR               |
| 395       | 6                           | NR               | 525       | 491                         | NR               | 655       | 184                         | NR               | 785       | 4                           | NR               | 915       | 0                           | NR               |
| 400       | 9                           | NR               | 530       | 514                         | NR               | 660       | 160                         | NR               | 790       | 4                           | NR               | 920       | 0                           | NR               |
| 405       | 14                          | NR               | 535       | 530                         | NR               | 665       | 140                         | NR               | 795       | 3                           | NR               | 925       | 0                           | NR               |
| 410       | 27                          | NR               | 540       | 539                         | NR               | 670       | 122                         | NR               | 800       | 3                           | NR               | 930       | 0                           | NR               |
| 415       | 55                          | NR               | 545       | 549                         | NR               | 675       | 106                         | NR               | 805       | 2                           | NR               | 935       | 0                           | NR               |
| 420       | 115                         | NR               | 550       | 557                         | NR               | 680       | 92                          | NR               | 810       | 2                           | NR               | 940       | 0                           | NR               |
| 425       | 226                         | NR               | 555       | 565                         | NR               | 685       | 79                          | NR               | 815       | 2                           | NR               | 945       | 0                           | NR               |
| 430       | 395                         | NR               | 560       | 572                         | NR               | 690       | 68                          | NR               | 820       | 2                           | NR               | 950       | 0                           | NR               |
| 435       | 648                         | NR               | 565       | 580                         | NR               | 695       | 59                          | NR               | 825       | 1                           | NR               | 955       | 0                           | NR               |
| 440       | 937                         | NR               | 570       | 586                         | NR               | 700       | 51                          | NR               | 830       | 1                           | NR               | 960       | 0                           | NR               |
| 445       | 953                         | NR               | 575       | 588                         | NR               | 705       | 44                          | NR               | 835       | 1                           | NR               | 965       | 0                           | NR               |
| 450       | 591                         | NR               | 580       | 588                         | NR               | 710       | 38                          | NR               | 840       | 1                           | NR               | 970       | 0                           | NR               |
| 455       | 334                         | NR               | 585       | 580                         | NR               | 715       | 32                          | NR               | 845       | 1                           | NR               | 975       | 0                           | NR               |
| 460       | 221                         | NR               | 590       | 568                         | NR               | 720       | 28                          | NR               | 850       | 1                           | NR               | 980       | 0                           | NR               |
| 465       | 140                         | NR               | 595       | 550                         | NR               | 725       | 24                          | NR               | 855       | 1                           | NR               | 985       | 0                           | NR               |
| 470       | 93                          | NR               | 600       | 527                         | NR               | 730       | 21                          | NR               | 860       | 1                           | NR               | 990       | 0                           | NR               |
| 475       | 79                          | NR               | 605       | 499                         | NR               | 735       | 18                          | NR               | 865       | 0                           | NR               | 995       | 0                           | NR               |
| 480       | 76                          | NR               | 610       | 469                         | NR               | 740       | 15                          | NR               | 870       | 0                           | NR               | 1000      | 0                           | NR               |
| 485       | 87                          | NR               | 615       | 435                         | NR               | 745       | 13                          | NR               | 875       | 0                           | NR               |           |                             |                  |



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### Melanopic Flux vs. Wavelength


**Melanopic Lumens: NR**
**M/P: 3.37**

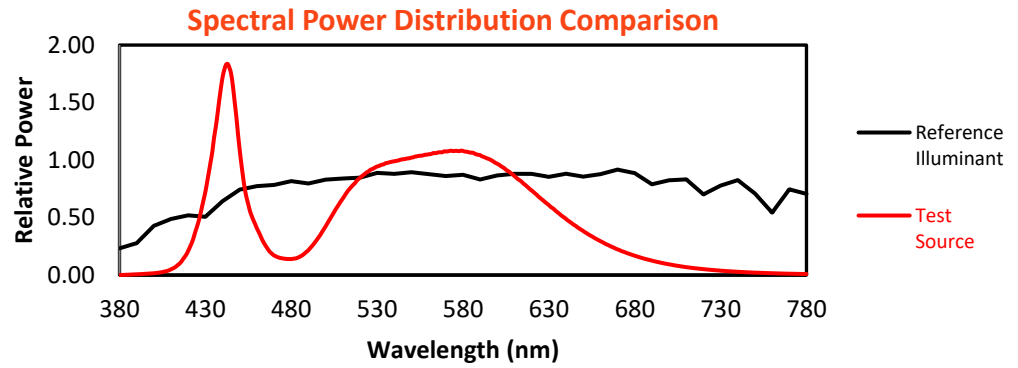
| $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | 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               | 118                                    | NR                             | 620               | 401                                    | NR                             | 750               | 12                                     | NR                             | 880               | 0                                      | NR                             |
| 365               | 0                                      | NR                             | 495               | 168                                    | NR                             | 625               | 365                                    | NR                             | 755               | 10                                     | NR                             | 885               | 0                                      | NR                             |
| 370               | 0                                      | NR                             | 500               | 230                                    | NR                             | 630               | 331                                    | NR                             | 760               | 9                                      | NR                             | 890               | 0                                      | NR                             |
| 375               | 0                                      | NR                             | 505               | 299                                    | NR                             | 635               | 298                                    | NR                             | 765               | 8                                      | NR                             | 895               | 0                                      | NR                             |
| 380               | 0                                      | NR                             | 510               | 362                                    | NR                             | 640               | 266                                    | NR                             | 770               | 6                                      | NR                             | 900               | 0                                      | NR                             |
| 385               | 2                                      | NR                             | 515               | 418                                    | NR                             | 645               | 236                                    | NR                             | 775               | 6                                      | NR                             | 905               | 0                                      | NR                             |
| 390               | 4                                      | NR                             | 520               | 461                                    | NR                             | 650               | 209                                    | NR                             | 780               | 5                                      | NR                             | 910               | 0                                      | NR                             |
| 395               | 6                                      | NR                             | 525               | 491                                    | NR                             | 655               | 184                                    | NR                             | 785               | 4                                      | NR                             | 915               | 0                                      | NR                             |
| 400               | 9                                      | NR                             | 530               | 514                                    | NR                             | 660               | 160                                    | NR                             | 790               | 4                                      | NR                             | 920               | 0                                      | NR                             |
| 405               | 14                                     | NR                             | 535               | 530                                    | NR                             | 665               | 140                                    | NR                             | 795               | 3                                      | NR                             | 925               | 0                                      | NR                             |
| 410               | 27                                     | NR                             | 540               | 539                                    | NR                             | 670               | 122                                    | NR                             | 800               | 3                                      | NR                             | 930               | 0                                      | NR                             |
| 415               | 55                                     | NR                             | 545               | 549                                    | NR                             | 675               | 106                                    | NR                             | 805               | 2                                      | NR                             | 935               | 0                                      | NR                             |
| 420               | 115                                    | NR                             | 550               | 557                                    | NR                             | 680               | 92                                     | NR                             | 810               | 2                                      | NR                             | 940               | 0                                      | NR                             |
| 425               | 226                                    | NR                             | 555               | 565                                    | NR                             | 685               | 79                                     | NR                             | 815               | 2                                      | NR                             | 945               | 0                                      | NR                             |
| 430               | 395                                    | NR                             | 560               | 572                                    | NR                             | 690               | 68                                     | NR                             | 820               | 2                                      | NR                             | 950               | 0                                      | NR                             |
| 435               | 648                                    | NR                             | 565               | 580                                    | NR                             | 695               | 59                                     | NR                             | 825               | 1                                      | NR                             | 955               | 0                                      | NR                             |
| 440               | 937                                    | NR                             | 570               | 586                                    | NR                             | 700               | 51                                     | NR                             | 830               | 1                                      | NR                             | 960               | 0                                      | NR                             |
| 445               | 953                                    | NR                             | 575               | 588                                    | NR                             | 705               | 44                                     | NR                             | 835               | 1                                      | NR                             | 965               | 0                                      | NR                             |
| 450               | 591                                    | NR                             | 580               | 588                                    | NR                             | 710               | 38                                     | NR                             | 840               | 1                                      | NR                             | 970               | 0                                      | NR                             |
| 455               | 334                                    | NR                             | 585               | 580                                    | NR                             | 715               | 32                                     | NR                             | 845               | 1                                      | NR                             | 975               | 0                                      | NR                             |
| 460               | 221                                    | NR                             | 590               | 568                                    | NR                             | 720               | 28                                     | NR                             | 850               | 1                                      | NR                             | 980               | 0                                      | NR                             |
| 465               | 140                                    | NR                             | 595               | 550                                    | NR                             | 725               | 24                                     | NR                             | 855               | 1                                      | NR                             | 985               | 0                                      | NR                             |
| 470               | 93                                     | NR                             | 600               | 527                                    | NR                             | 730               | 21                                     | NR                             | 860               | 1                                      | NR                             | 990               | 0                                      | NR                             |
| 475               | 79                                     | NR                             | 605               | 499                                    | NR                             | 735               | 18                                     | NR                             | 865               | 0                                      | NR                             | 995               | 0                                      | NR                             |
| 480               | 76                                     | NR                             | 610               | 469                                    | NR                             | 740               | 15                                     | NR                             | 870               | 0                                      | NR                             | 1000              | 0                                      | NR                             |
| 485               | 87                                     | NR                             | 615               | 435                                    | NR                             | 745               | 13                                     | NR                             | 875               | 0                                      | NR                             |                   |                                        |                                |

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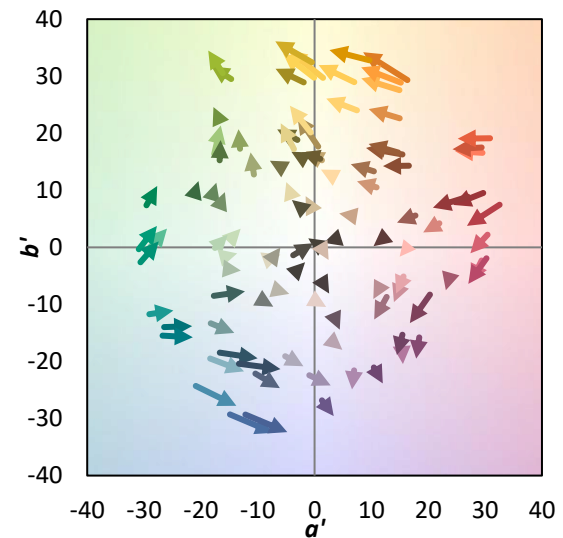
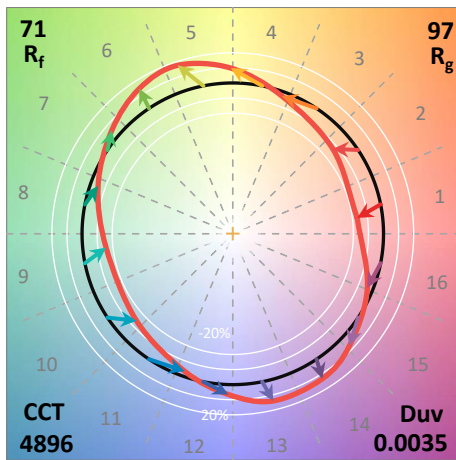
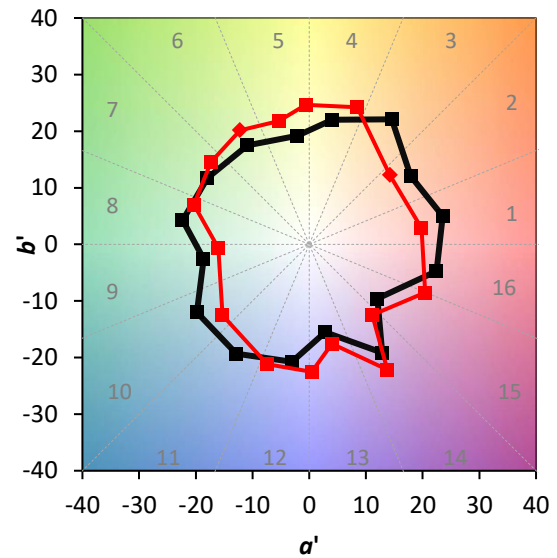
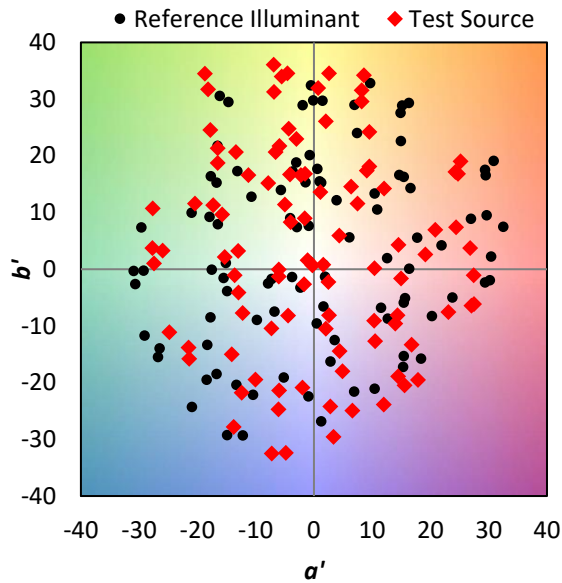
TM-30-18

### Summary

$R_f = 70.7$   
 $R_g = 96.8$   
 $CIE R_a = 70.2$   
 $R_g = -35.1$

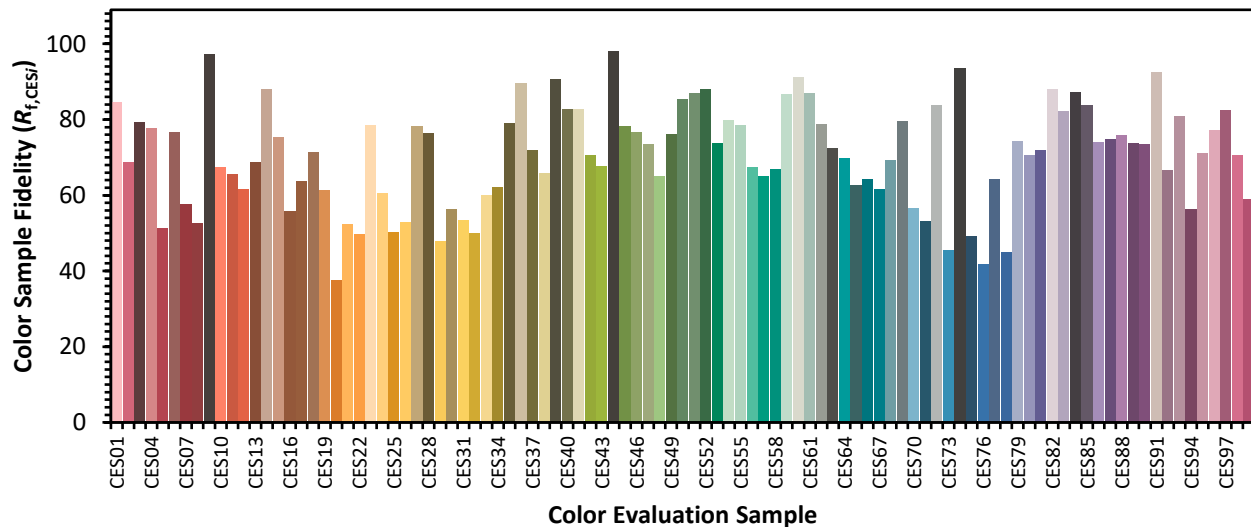


### Color Vector Graphics

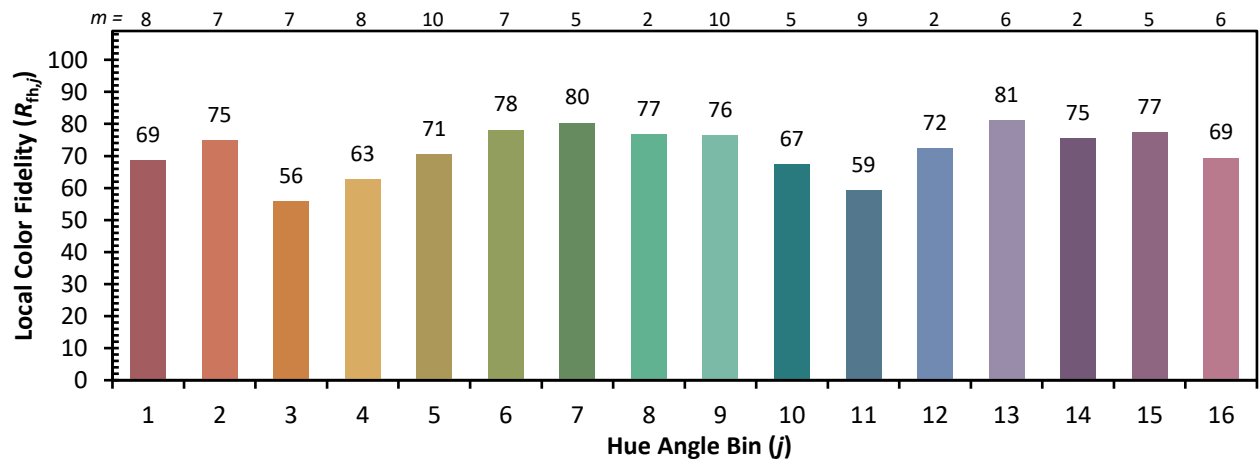
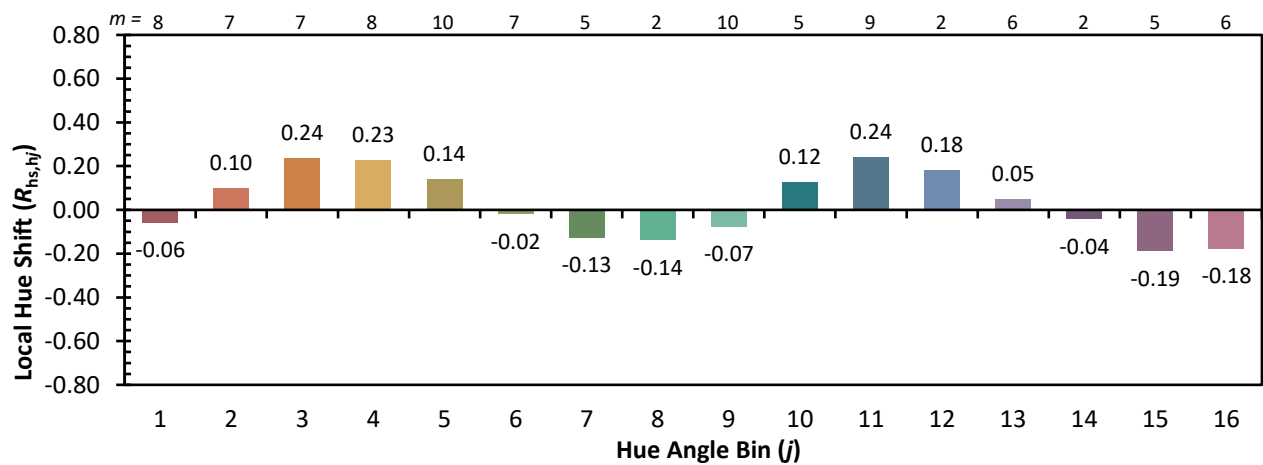
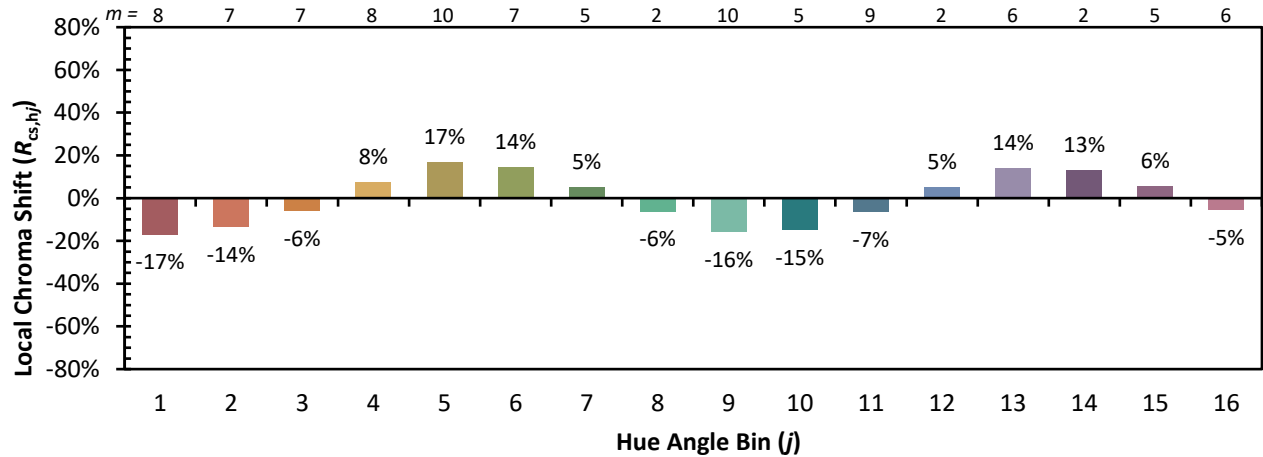


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

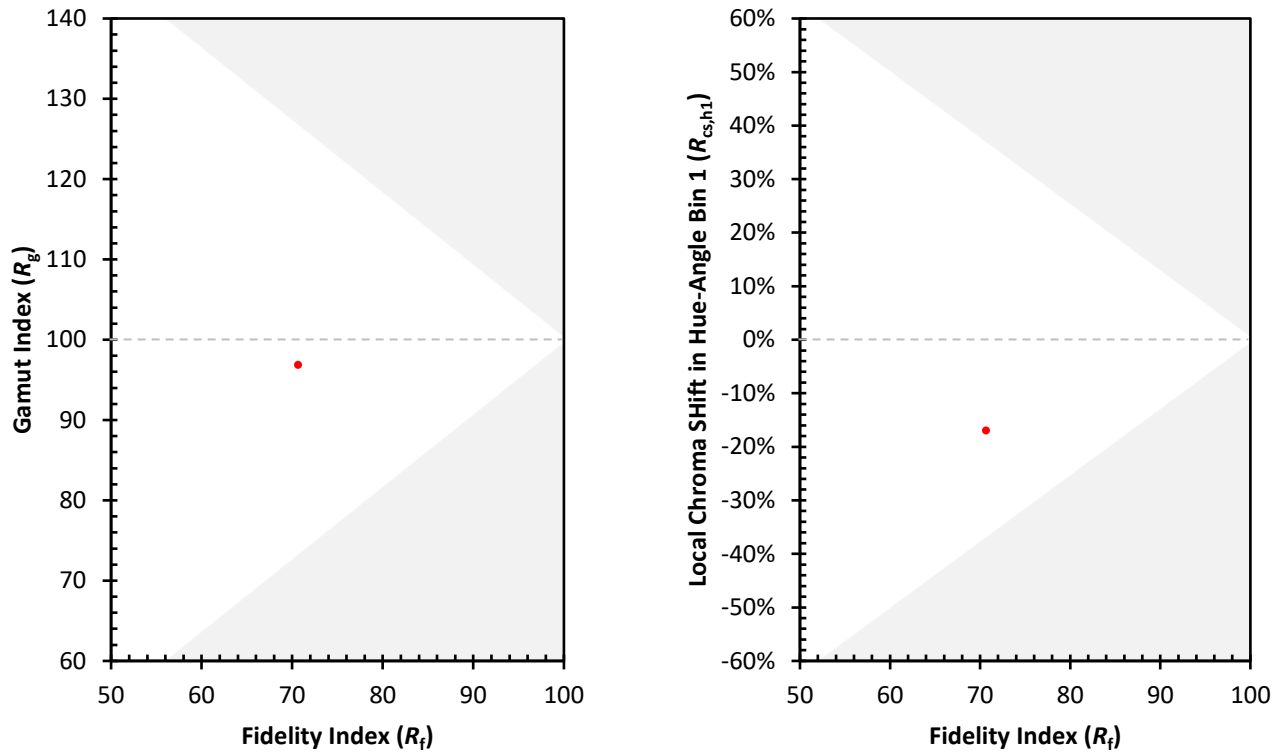
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 53 | CES51 = 87 | CES76 = 42 |
| CES02 = 59 | CES27 = 78 | CES52 = 88 | CES77 = 64 |
| CES03 = 30 | CES28 = 76 | CES53 = 74 | CES78 = 45 |
| CES04 = 69 | CES29 = 48 | CES54 = 80 | CES79 = 74 |
| CES05 = 46 | CES30 = 56 | CES55 = 79 | CES80 = 71 |
| CES06 = 50 | CES31 = 54 | CES56 = 68 | CES81 = 72 |
| CES07 = 39 | CES32 = 50 | CES57 = 65 | CES82 = 88 |
| CES08 = 38 | CES33 = 60 | CES58 = 67 | CES83 = 82 |
| CES09 = 29 | CES34 = 62 | CES59 = 87 | CES84 = 87 |
| CES10 = 72 | CES35 = 79 | CES60 = 91 | CES85 = 84 |
| CES11 = 56 | CES36 = 90 | CES61 = 87 | CES86 = 74 |
| CES12 = 61 | CES37 = 72 | CES62 = 79 | CES87 = 75 |
| CES13 = 41 | CES38 = 66 | CES63 = 72 | CES88 = 76 |
| CES14 = 74 | CES39 = 91 | CES64 = 70 | CES89 = 74 |
| CES15 = 70 | CES40 = 83 | CES65 = 63 | CES90 = 73 |
| CES16 = 46 | CES41 = 83 | CES66 = 64 | CES91 = 92 |
| CES17 = 49 | CES42 = 70 | CES67 = 62 | CES92 = 67 |
| CES18 = 55 | CES43 = 68 | CES68 = 69 | CES93 = 81 |
| CES19 = 71 | CES44 = 98 | CES69 = 80 | CES94 = 56 |
| CES20 = 64 | CES45 = 78 | CES70 = 56 | CES95 = 71 |
| CES21 = 85 | CES46 = 77 | CES71 = 53 | CES96 = 77 |
| CES22 = 77 | CES47 = 73 | CES72 = 84 | CES97 = 82 |
| CES23 = 91 | CES48 = 65 | CES73 = 46 | CES98 = 71 |
| CES24 = 90 | CES49 = 76 | CES74 = 94 | CES99 = 59 |
| CES25 = 71 | CES50 = 85 | CES75 = 49 |            |



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)