

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: P1057676

Luminaire Tested: **GAP-SA2A-735-U-RBC**

Issue Date: 08/07/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1057676  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 08/07/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAP-SA2A-735-U-RBC  
Description: GALLEON PEDESTRAIAN COMPANION 615mA 2xLight Square PACKAGE 70CRI  
3500K FIXTURE w/ RIGHT CORNER BACKLIGHT CONTROL  
Light Source: (28) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5804.8 lumens  
Efficiency: N/A  
Efficacy: 104.4 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): 55.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



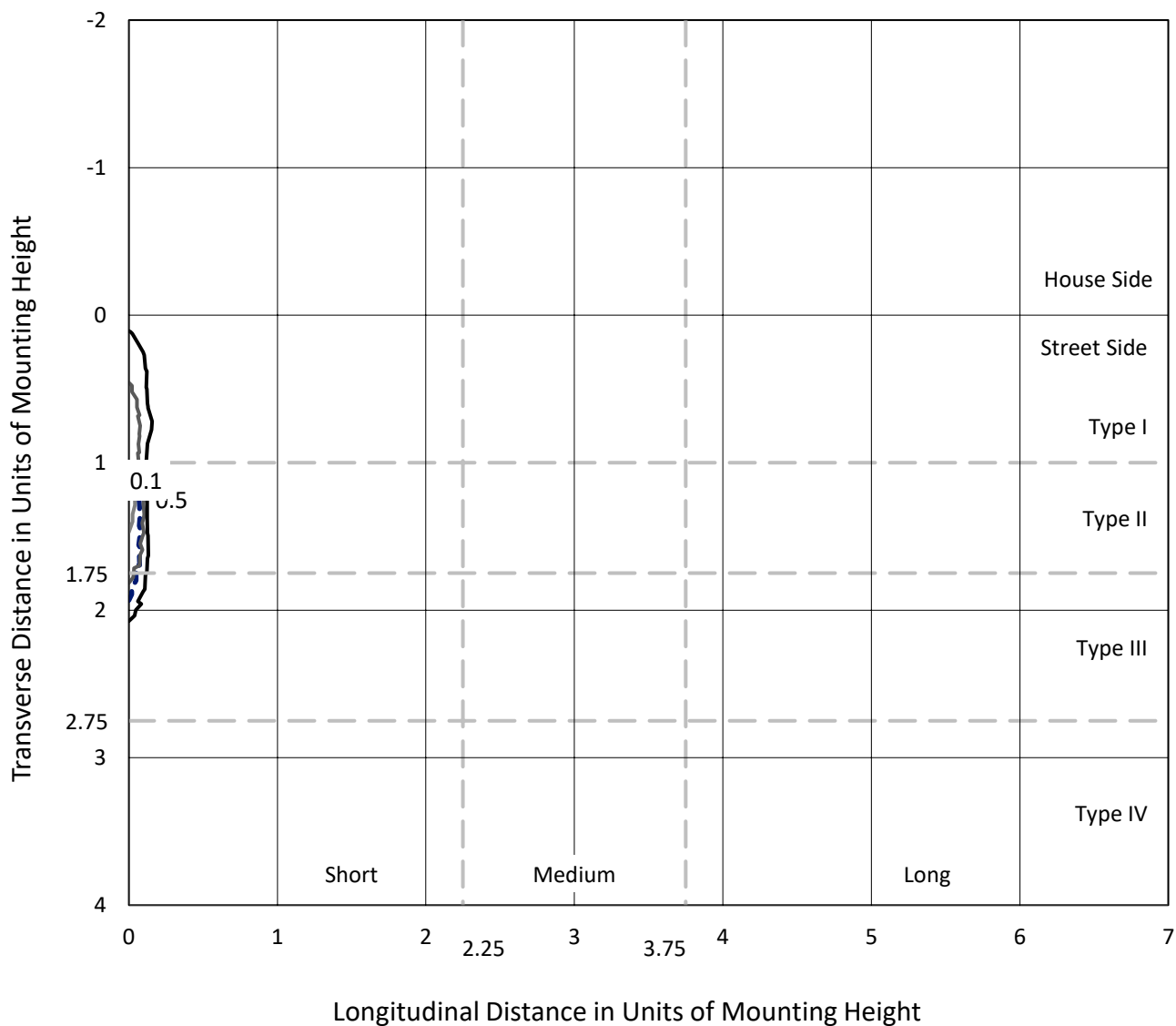
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

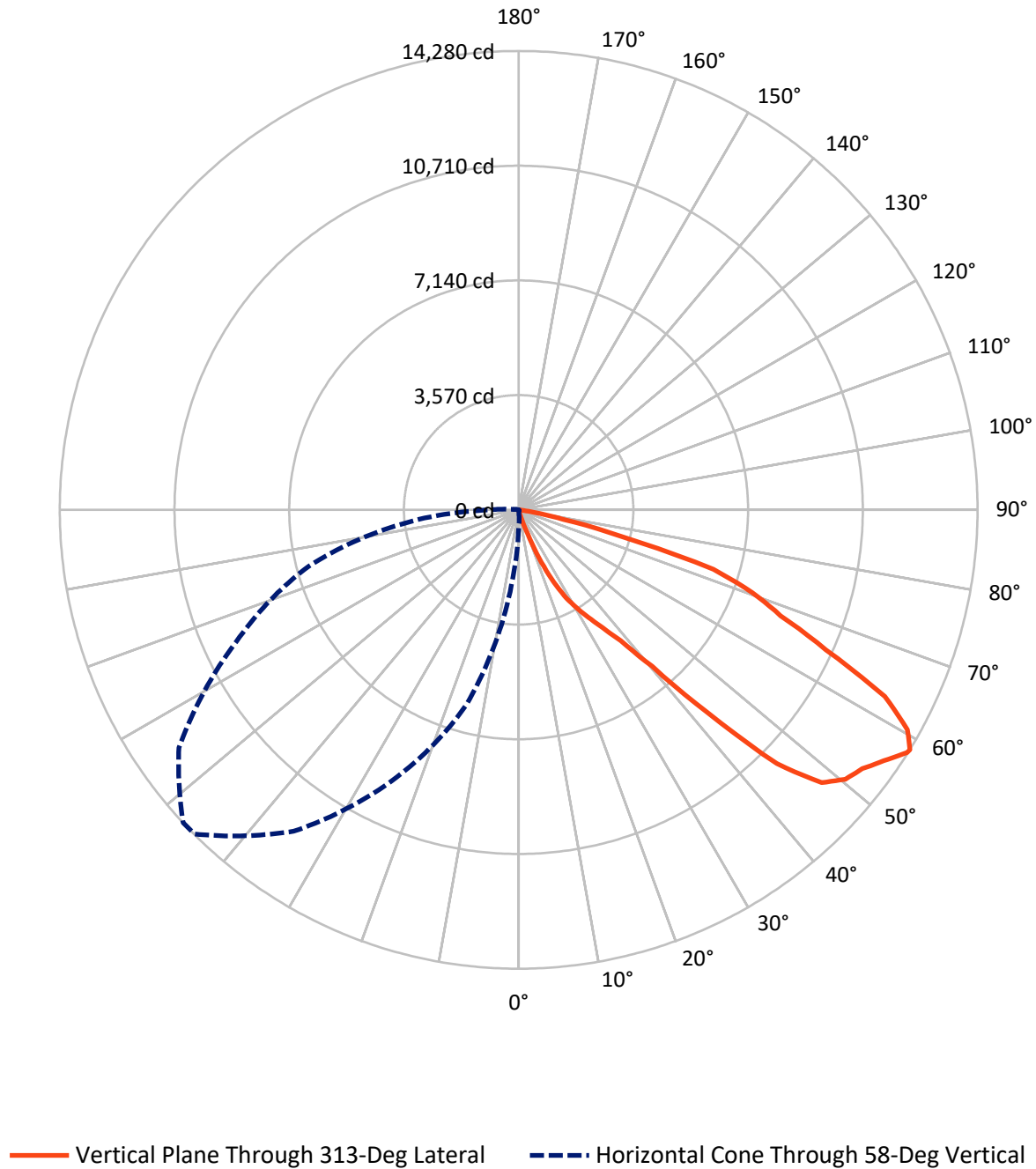


Based on 15 foot mounting height. Maximum calculated value = 0.7 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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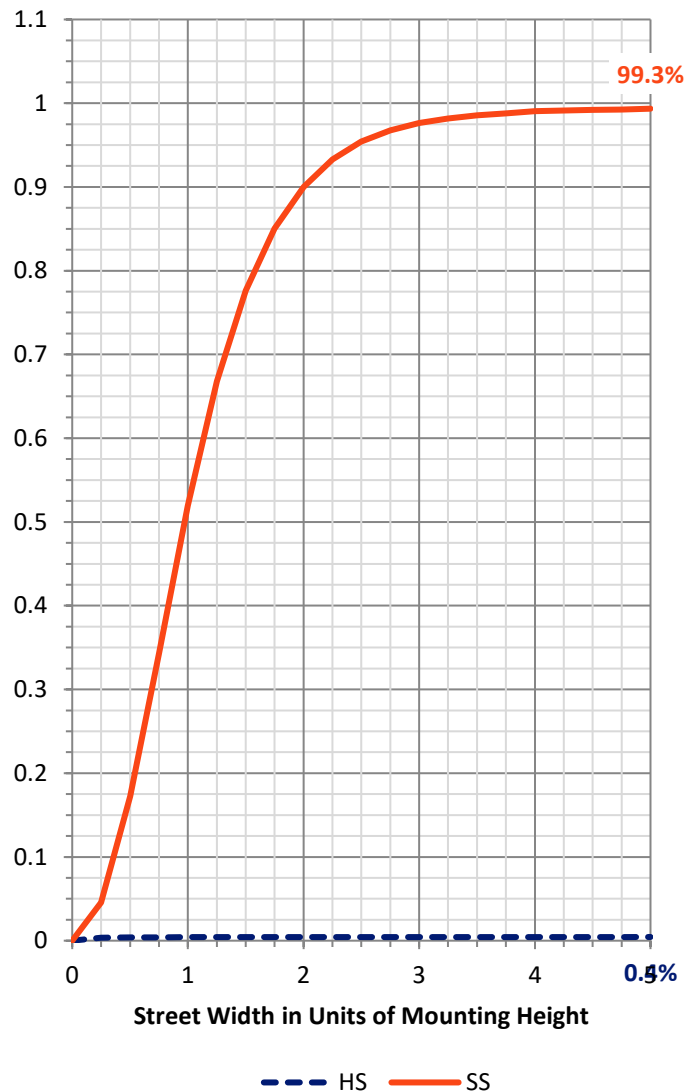
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 26.0     | 0.0    | 26.0   |
|                    | % Fixture | 0.4      | 0.0    | 0.4    |
| <b>Street Side</b> | Lumens    | 5778.8   | 0.0    | 5778.8 |
|                    | % Fixture | 99.6     | 0.0    | 99.6   |
| <b>Total</b>       | Lumens    | 5804.8   | 0.0    | 5804.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.8    | 0.0       |
| 10°-20°   | 10.1   | 0.2       |
| 20°-30°   | 146.6  | 2.5       |
| 30°-40°   | 421.4  | 7.3       |
| 40°-50°   | 1200.5 | 20.7      |
| 50°-60°   | 1888.3 | 32.5      |
| 60°-70°   | 1610.3 | 27.7      |
| 70°-80°   | 513.7  | 8.8       |
| 80°-90°   | 13.1   | 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°    | 5804.8 | 100.0     |
| 0°-180°   | 5804.8 | 100.0     |



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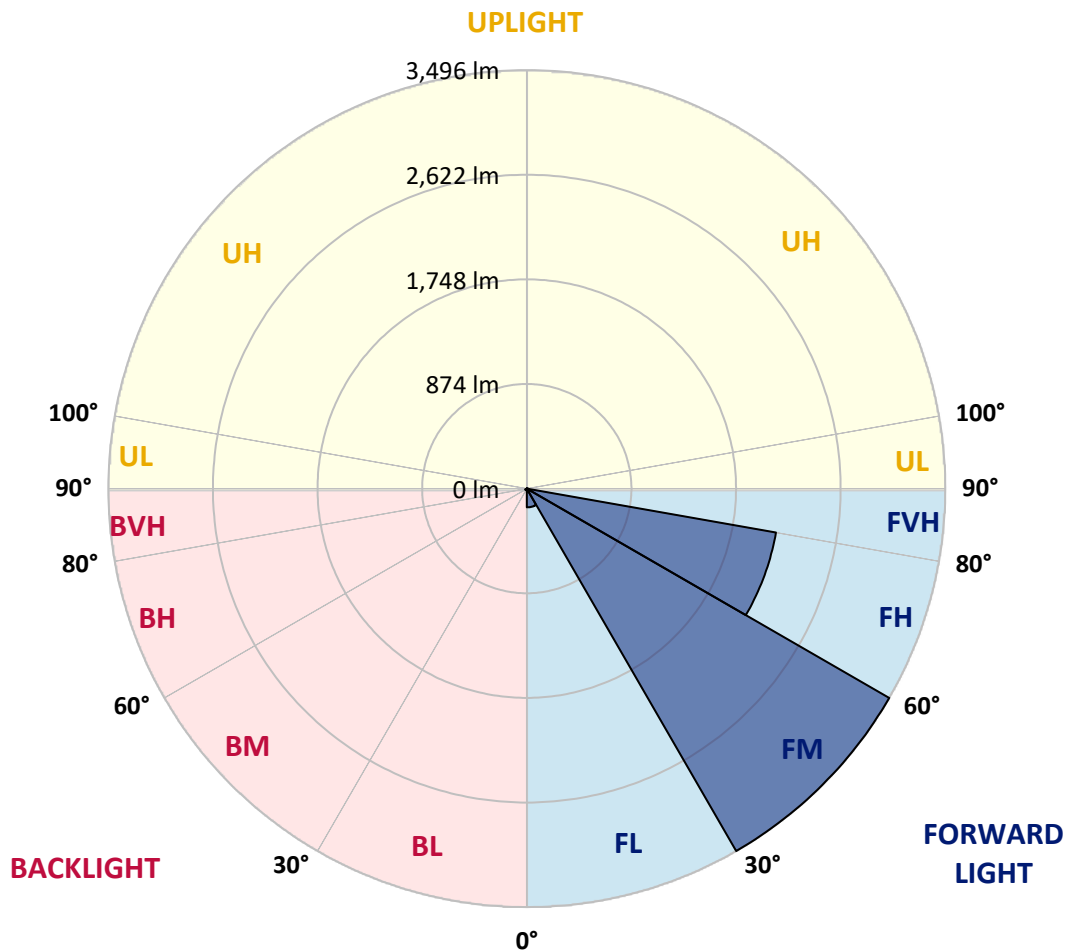
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 156.5  | 2.7       |                         |      |         |
| FM   | (30°-60°)   | 3496.3 | 60.2      |                         |      |         |
| FH   | (60°-80°)   | 2113.7 | 36.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 12.4   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1.0    | 0.0       | B0/110                  |      |         |
| BM   | (30°-60°)   | 13.9   | 0.2       | B0/220                  |      |         |
| BH   | (60°-80°)   | 10.3   | 0.2       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.7    | 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°    | 8.1   | 8.1   | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1 | 8.1 | 8.1 |
| 2.5°  | 20.9  | 22.1  | 23.2 | 22.1 | 19.7 | 15.1 | 15.1 | 11.6 | 8.1 | 4.6 | 3.5 |
| 5°    | 23.2  | 23.2  | 23.2 | 22.1 | 19.7 | 15.1 | 13.9 | 10.5 | 7.0 | 4.6 | 2.3 |
| 7.5°  | 25.6  | 25.6  | 24.4 | 22.1 | 18.6 | 15.1 | 13.9 | 10.5 | 7.0 | 3.5 | 0.0 |
| 10°   | 27.9  | 27.9  | 25.6 | 23.2 | 18.6 | 13.9 | 12.8 | 9.3  | 5.8 | 2.3 | 0.0 |
| 12.5° | 31.4  | 30.2  | 26.7 | 23.2 | 18.6 | 12.8 | 12.8 | 9.3  | 4.6 | 1.2 | 0.0 |
| 15°   | 36.0  | 32.5  | 27.9 | 23.2 | 17.4 | 12.8 | 11.6 | 8.1  | 3.5 | 0.0 | 0.0 |
| 17.5° | 39.5  | 36.0  | 29.0 | 22.1 | 16.3 | 11.6 | 10.5 | 7.0  | 3.5 | 0.0 | 0.0 |
| 20°   | 43.0  | 37.2  | 29.0 | 22.1 | 16.3 | 10.5 | 9.3  | 5.8  | 1.2 | 0.0 | 0.0 |
| 22.5° | 48.8  | 39.5  | 29.0 | 22.1 | 15.1 | 9.3  | 8.1  | 4.6  | 0.0 | 0.0 | 0.0 |
| 25°   | 60.4  | 41.8  | 29.0 | 20.9 | 13.9 | 8.1  | 7.0  | 2.3  | 0.0 | 0.0 | 0.0 |
| 27.5° | 74.3  | 45.3  | 29.0 | 19.7 | 12.8 | 7.0  | 5.8  | 1.2  | 0.0 | 0.0 | 0.0 |
| 30°   | 89.5  | 48.8  | 29.0 | 19.7 | 11.6 | 5.8  | 4.6  | 0.0  | 0.0 | 0.0 | 0.0 |
| 32.5° | 105.7 | 53.4  | 29.0 | 18.6 | 10.5 | 4.6  | 3.5  | 0.0  | 0.0 | 0.0 | 0.0 |
| 35°   | 135.9 | 60.4  | 29.0 | 18.6 | 9.3  | 3.5  | 2.3  | 0.0  | 0.0 | 0.0 | 0.0 |
| 37.5° | 149.9 | 69.7  | 29.0 | 17.4 | 9.3  | 2.3  | 1.2  | 0.0  | 0.0 | 0.0 | 0.0 |
| 40°   | 155.7 | 67.4  | 27.9 | 17.4 | 8.1  | 1.2  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 42.5° | 168.4 | 62.7  | 29.0 | 16.3 | 8.1  | 1.2  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 45°   | 205.6 | 62.7  | 31.4 | 16.3 | 7.0  | 2.3  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 47.5° | 356.6 | 65.1  | 30.2 | 16.3 | 7.0  | 2.3  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 50°   | 586.7 | 76.7  | 29.0 | 17.4 | 8.1  | 1.2  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 52.5° | 680.8 | 92.9  | 29.0 | 18.6 | 10.5 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 55°   | 652.9 | 113.8 | 29.0 | 19.7 | 12.8 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 57.5° | 593.6 | 108.0 | 31.4 | 23.2 | 16.3 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 58°   | 571.6 | 108.0 | 31.4 | 23.2 | 16.3 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 60°   | 448.4 | 110.4 | 36.0 | 25.6 | 17.4 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 62.5° | 333.4 | 112.7 | 40.7 | 29.0 | 17.4 | 1.2  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 65°   | 247.4 | 117.3 | 43.0 | 33.7 | 16.3 | 2.3  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 67.5° | 197.5 | 120.8 | 46.5 | 37.2 | 18.6 | 4.6  | 1.2  | 0.0  | 0.0 | 0.0 | 0.0 |
| 70°   | 169.6 | 116.2 | 50.0 | 38.3 | 17.4 | 7.0  | 3.5  | 0.0  | 0.0 | 0.0 | 0.0 |
| 72.5° | 151.0 | 109.2 | 56.9 | 37.2 | 18.6 | 7.0  | 3.5  | 0.0  | 0.0 | 0.0 | 0.0 |
| 75°   | 135.9 | 99.9  | 65.1 | 36.0 | 18.6 | 7.0  | 4.6  | 0.0  | 0.0 | 0.0 | 0.0 |
| 77.5° | 102.2 | 87.1  | 63.9 | 34.9 | 17.4 | 7.0  | 4.6  | 0.0  | 0.0 | 0.0 | 0.0 |
| 80°   | 51.1  | 58.1  | 55.8 | 31.4 | 13.9 | 5.8  | 4.6  | 1.2  | 0.0 | 0.0 | 0.0 |
| 82.5° | 20.9  | 22.1  | 27.9 | 23.2 | 11.6 | 4.6  | 4.6  | 1.2  | 0.0 | 0.0 | 0.0 |
| 85°   | 2.3   | 4.6   | 8.1  | 9.3  | 8.1  | 4.6  | 4.6  | 1.2  | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0   | 1.2   | 4.6  | 7.0  | 5.8  | 3.5  | 2.3  | 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°    | 8.1 | 8.1 | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  |
| 2.5°  | 2.3 | 2.3 | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  |
| 5°    | 1.2 | 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°    | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1  | 8.1   | 8.1    | 8.1    |
| 2.5°  | 1.2  | 2.3  | 2.3  | 2.3  | 3.5  | 3.5  | 4.6  | 5.8  | 5.8   | 5.8    | 7.0    |
| 5°    | 0.0  | 0.0  | 1.2  | 1.2  | 2.3  | 3.5  | 4.6  | 7.0  | 8.1   | 8.1    | 9.3    |
| 7.5°  | 0.0  | 0.0  | 0.0  | 1.2  | 2.3  | 3.5  | 4.6  | 7.0  | 9.3   | 10.5   | 11.6   |
| 10°   | 0.0  | 0.0  | 0.0  | 0.0  | 1.2  | 2.3  | 4.6  | 8.1  | 11.6  | 13.9   | 16.3   |
| 12.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.2  | 4.6  | 9.3  | 13.9  | 17.4   | 19.7   |
| 15°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.2  | 4.6  | 9.3  | 17.4  | 20.9   | 25.6   |
| 17.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.6  | 10.5 | 19.7  | 25.6   | 34.9   |
| 20°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.5  | 10.5 | 22.1  | 31.4   | 52.3   |
| 22.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.5  | 10.5 | 24.4  | 40.7   | 96.4   |
| 25°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.3  | 10.5 | 27.9  | 60.4   | 160.3  |
| 27.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.3  | 11.6 | 33.7  | 84.8   | 234.7  |
| 30°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.3  | 11.6 | 41.8  | 115.0  | 327.6  |
| 32.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.2  | 11.6 | 48.8  | 145.2  | 446.1  |
| 35°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 10.5 | 58.1  | 192.8  | 559.9  |
| 37.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 10.5 | 72.0  | 212.6  | 656.4  |
| 40°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.3  | 68.5  | 231.2  | 766.7  |
| 42.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 10.5 | 62.7  | 257.9  | 939.8  |
| 45°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 10.5 | 62.7  | 341.5  | 1323.2 |
| 47.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.3  | 76.7  | 532.1  | 2022.6 |
| 50°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.0  | 98.7  | 816.7  | 2879.9 |
| 52.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.8  | 119.7 | 1004.9 | 3377.1 |
| 55°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.8  | 144.1 | 1006.0 | 3360.9 |
| 57.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.0  | 160.3 | 900.3  | 3033.2 |
| 58°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.1  | 159.2 | 871.3  | 2942.6 |
| 60°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.2  | 11.6 | 139.4 | 756.3  | 2568.6 |
| 62.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.6  | 18.6 | 122.0 | 542.5  | 2129.4 |
| 65°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.3  | 20.9 | 111.5 | 393.8  | 1598.5 |
| 67.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 11.6 | 24.4 | 106.9 | 278.8  | 1111.8 |
| 70°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 13.9 | 27.9 | 98.7  | 199.8  | 731.9  |
| 72.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 13.9 | 34.9 | 92.9  | 156.8  | 441.5  |
| 75°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 13.9 | 44.1 | 81.3  | 127.8  | 237.0  |
| 77.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 13.9 | 47.6 | 67.4  | 92.9   | 144.1  |
| 80°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 12.8 | 43.0 | 48.8  | 40.7   | 48.8   |
| 82.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.0  | 25.6 | 10.5  | 10.5   | 16.3   |
| 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: P1057676

CATALOG NUMBER: GAP-SA2A-735-U-RBC

**CANDELA DISTRIBUTION (continued):**

|       | 285°   | 295°   | 305°    | 313°    | 315°    | 325°    | 335°   | 345°   | 355°   | 360°  |
|-------|--------|--------|---------|---------|---------|---------|--------|--------|--------|-------|
| 0°    | 8.1    | 8.1    | 8.1     | 8.1     | 8.1     | 8.1     | 8.1    | 8.1    | 8.1    | 8.1   |
| 2.5°  | 8.1    | 8.1    | 8.1     | 8.1     | 9.3     | 9.3     | 12.8   | 16.3   | 19.7   | 20.9  |
| 5°    | 10.5   | 11.6   | 12.8    | 12.8    | 12.8    | 13.9    | 16.3   | 18.6   | 22.1   | 23.2  |
| 7.5°  | 15.1   | 16.3   | 18.6    | 18.6    | 18.6    | 19.7    | 20.9   | 23.2   | 25.6   | 25.6  |
| 10°   | 19.7   | 23.2   | 24.4    | 25.6    | 26.7    | 26.7    | 26.7   | 27.9   | 29.0   | 27.9  |
| 12.5° | 26.7   | 31.4   | 37.2    | 38.3    | 38.3    | 38.3    | 37.2   | 34.9   | 32.5   | 31.4  |
| 15°   | 37.2   | 51.1   | 69.7    | 76.7    | 73.2    | 65.1    | 56.9   | 44.1   | 38.3   | 36.0  |
| 17.5° | 68.5   | 139.4  | 253.3   | 280.0   | 274.2   | 235.8   | 138.2  | 67.4   | 45.3   | 39.5  |
| 20°   | 184.7  | 450.7  | 743.5   | 814.4   | 851.5   | 705.2   | 407.8  | 156.8  | 55.8   | 43.0  |
| 22.5° | 398.5  | 936.3  | 1451.0  | 1634.5  | 1646.2  | 1324.4  | 793.5  | 318.3  | 80.2   | 48.8  |
| 25°   | 641.3  | 1497.5 | 2199.1  | 2376.9  | 2380.4  | 2041.1  | 1268.6 | 515.8  | 122.0  | 60.4  |
| 27.5° | 982.8  | 2099.2 | 2884.5  | 3032.1  | 3029.8  | 2685.9  | 1833.2 | 787.6  | 170.8  | 74.3  |
| 30°   | 1332.5 | 2568.6 | 3336.5  | 3520.0  | 3537.4  | 3126.2  | 2304.8 | 1109.4 | 223.0  | 89.5  |
| 32.5° | 1678.7 | 2915.9 | 3748.9  | 3992.8  | 3977.7  | 3515.4  | 2633.6 | 1373.2 | 312.5  | 105.7 |
| 35°   | 1951.7 | 3212.2 | 4205.4  | 4505.1  | 4516.8  | 3942.9  | 2925.2 | 1628.7 | 389.2  | 135.9 |
| 37.5° | 2185.2 | 3594.4 | 4813.0  | 5159.2  | 5174.3  | 4474.9  | 3230.7 | 1879.7 | 455.4  | 149.9 |
| 40°   | 2473.3 | 4221.7 | 5819.0  | 6406.9  | 6409.2  | 5467.0  | 3780.2 | 2160.8 | 544.8  | 155.7 |
| 42.5° | 3120.4 | 5565.8 | 7784.7  | 8629.2  | 8702.4  | 7525.6  | 5029.1 | 2770.7 | 685.4  | 168.4 |
| 45°   | 4414.5 | 7337.4 | 10291.7 | 11264.0 | 11357.0 | 10087.2 | 7170.1 | 4178.7 | 994.4  | 205.6 |
| 47.5° | 5953.8 | 8877.8 | 11748.5 | 12684.8 | 12746.4 | 11298.9 | 8603.7 | 5807.4 | 1692.6 | 356.6 |
| 50°   | 6900.6 | 9448.3 | 12284.0 | 13177.4 | 13187.8 | 11697.3 | 9053.3 | 6653.2 | 2411.7 | 586.7 |
| 52.5° | 7194.5 | 9521.4 | 12304.9 | 13385.3 | 13415.5 | 11650.9 | 9114.8 | 6823.9 | 2711.4 | 680.8 |
| 55°   | 7074.9 | 9478.5 | 12525.6 | 13782.6 | 13815.1 | 11840.2 | 9073.0 | 6636.9 | 2570.9 | 652.9 |
| 57.5° | 6801.9 | 9645.7 | 12888.1 | 14254.3 | 14254.3 | 12189.9 | 9227.5 | 6323.2 | 2227.0 | 593.6 |
| 58°   | 6761.2 | 9687.6 | 12907.8 | 14279.8 | 14269.4 | 12212.0 | 9291.4 | 6277.9 | 2151.5 | 571.6 |
| 60°   | 6705.4 | 9816.5 | 12761.5 | 13902.3 | 13872.1 | 12056.3 | 9407.6 | 6237.3 | 1785.6 | 448.4 |
| 62.5° | 6624.1 | 9526.1 | 11695.0 | 12791.7 | 12713.8 | 10965.5 | 9074.2 | 5999.1 | 1332.5 | 333.4 |
| 65°   | 6207.1 | 8453.8 | 9749.1  | 10508.9 | 10484.5 | 9020.7  | 7810.2 | 5374.1 | 959.6  | 247.4 |
| 67.5° | 5232.4 | 6618.3 | 7875.3  | 8790.7  | 8796.5  | 7364.1  | 6108.3 | 4294.9 | 652.9  | 197.5 |
| 70°   | 3680.3 | 4881.5 | 6695.0  | 7713.8  | 7760.3  | 6176.9  | 4524.9 | 2862.5 | 431.0  | 169.6 |
| 72.5° | 2198.0 | 3687.3 | 5567.0  | 6340.7  | 6316.3  | 5125.5  | 3357.4 | 1706.6 | 262.5  | 151.0 |
| 75°   | 1065.3 | 2203.8 | 2813.7  | 3263.3  | 3244.7  | 2563.9  | 1789.0 | 836.4  | 191.7  | 135.9 |
| 77.5° | 289.3  | 677.3  | 1089.7  | 1417.3  | 1455.6  | 1027.0  | 586.7  | 224.2  | 119.7  | 102.2 |
| 80°   | 97.6   | 209.1  | 355.5   | 483.3   | 496.1   | 443.8   | 220.7  | 79.0   | 52.3   | 51.1  |
| 82.5° | 37.2   | 51.1   | 65.1    | 58.1    | 58.1    | 60.4    | 47.6   | 33.7   | 24.4   | 20.9  |
| 85°   | 0.0    | 0.0    | 1.2     | 2.3     | 2.3     | 3.5     | 3.5    | 3.5    | 2.3    | 2.3   |
| 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: SP1-2407-184-5

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-735-U-5WQ

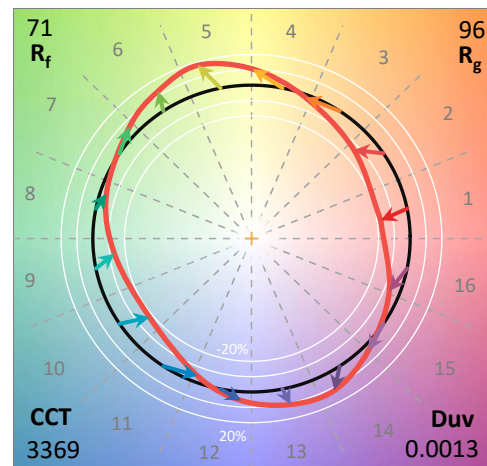
Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2407-184-5  
 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-735-U-5WQ**  
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3500K CCT 26 LEDS

### Spectral Parameters

|                           |          |           |      |      |       |
|---------------------------|----------|-----------|------|------|-------|
| CCT (K):                  | 3369     | CRI (Ra): | 70.1 |      |       |
| CIE u':                   | 0.2386   | R1:       | 66.6 | R9:  | -40.2 |
| CIE v':                   | 0.5156   | R2:       | 77.6 | R10: | 49.1  |
| Duv:                      | 0.0013   | R3:       | 88.5 | R11: | 66.3  |
| CIE x:                    | 0.4143   | R4:       | 69.5 | R12: | 45.7  |
| CIE y:                    | 0.3980   | R5:       | 66.4 | R13: | 68.0  |
| CIE z:                    | 0.1877   | R6:       | 69.6 | R14: | 93.4  |
| Peak Wavelength (nm):     | 590      | R7:       | 77.5 | R15: | 57.6  |
| Dominant Wavelength (nm): | 580      | R8:       | 44.9 |      |       |
| Purity:                   | 43.80166 |           |      |      |       |
| Rf:                       | 71.4     |           |      |      |       |
| Rg:                       | 96       |           |      |      |       |



### Test Conditions

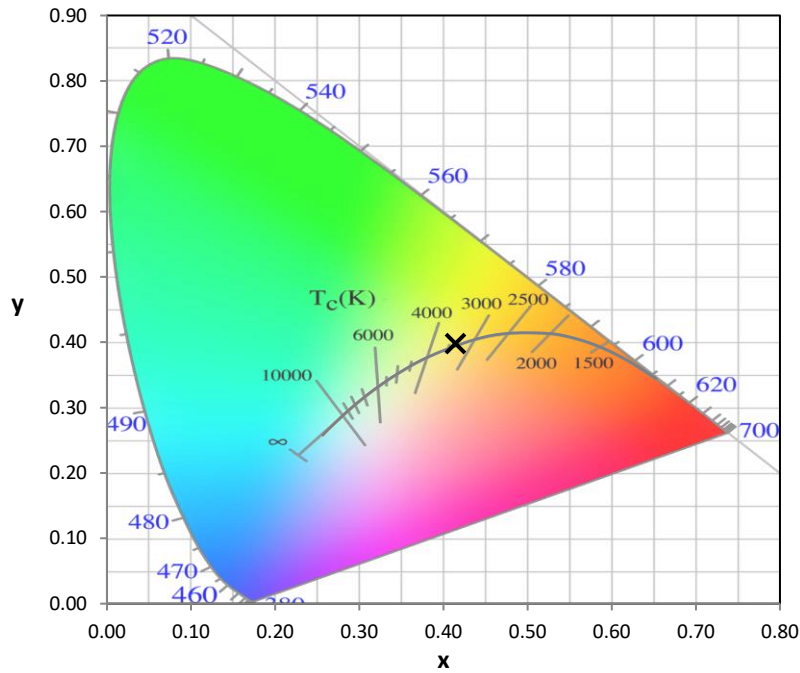
Stabilization Time: 21M  
 Operation Time: 1H 21M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-5

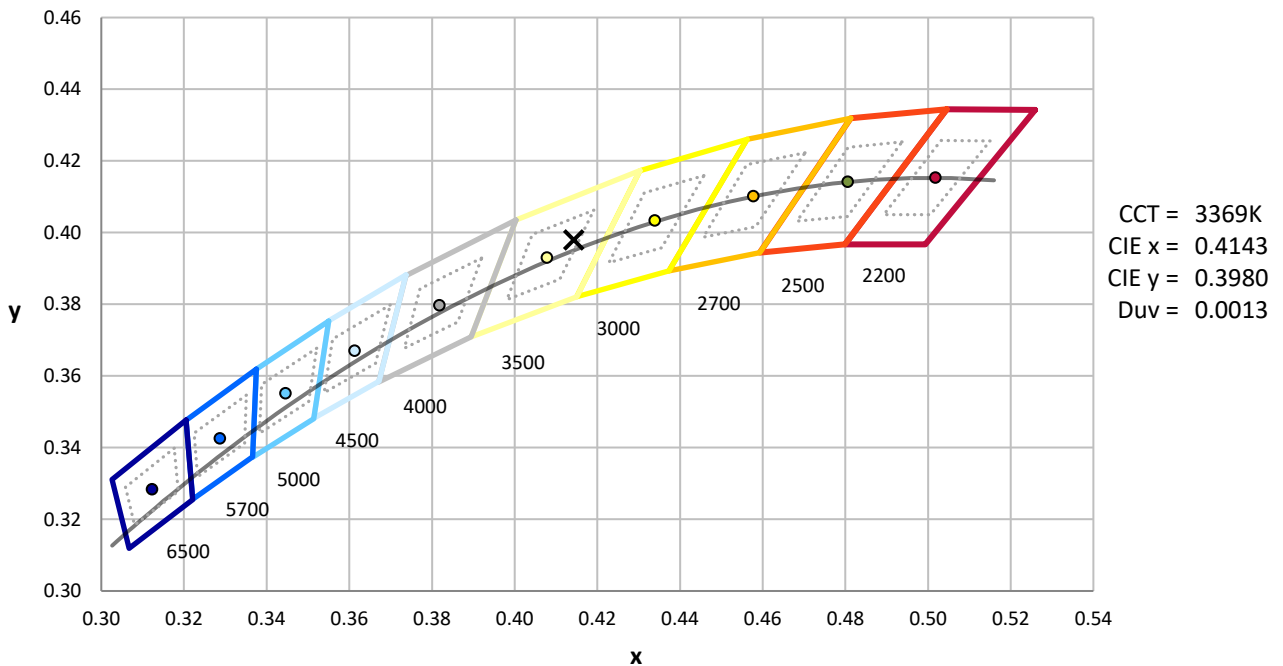
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| 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: SP1-2407-184-5

**CIE 1931 Chromaticity Diagram**



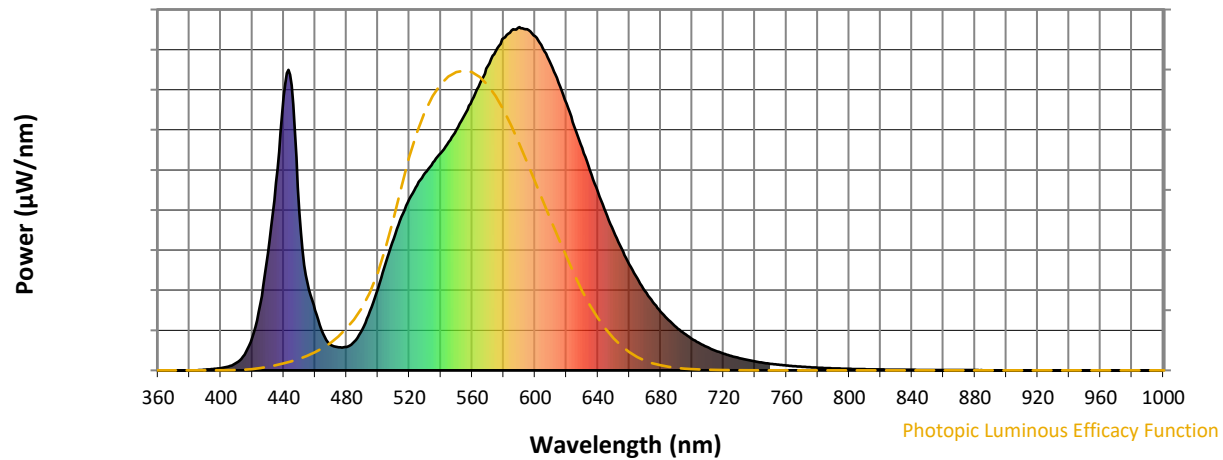
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-5

### Photopic Flux vs. Wavelength

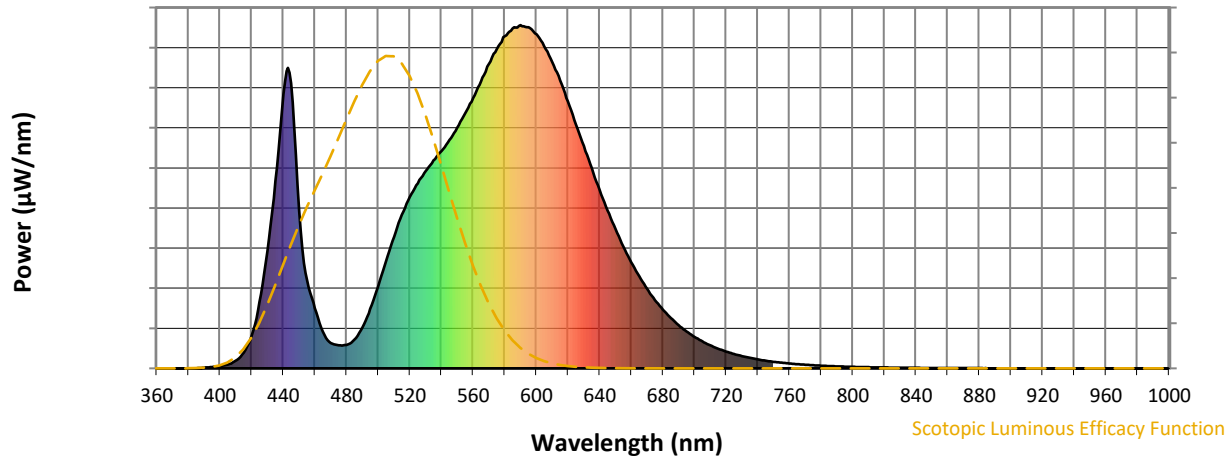


### Photopic Lumens: NR

| $\lambda$<br>(nm) | Power<br>$\text{W}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) |
|-------------------|-------------------------------|--------------------------------|-------------------|-------------------------------|--------------------------------|-------------------|-------------------------------|--------------------------------|-------------------|-------------------------------|--------------------------------|-------------------|-------------------------------|--------------------------------|
| 360               | 0                             | NR                             | 490               | 119                           | NR                             | 620               | 778                           | NR                             | 750               | 19                            | NR                             | 880               | 1                             | NR                             |
| 365               | 0                             | NR                             | 495               | 173                           | NR                             | 625               | 711                           | NR                             | 755               | 16                            | NR                             | 885               | 0                             | NR                             |
| 370               | 0                             | NR                             | 500               | 239                           | NR                             | 630               | 648                           | NR                             | 760               | 14                            | NR                             | 890               | 0                             | NR                             |
| 375               | 0                             | NR                             | 505               | 313                           | NR                             | 635               | 582                           | NR                             | 765               | 12                            | NR                             | 895               | 0                             | NR                             |
| 380               | 0                             | NR                             | 510               | 383                           | NR                             | 640               | 520                           | NR                             | 770               | 11                            | NR                             | 900               | 0                             | NR                             |
| 385               | 0                             | NR                             | 515               | 448                           | NR                             | 645               | 460                           | NR                             | 775               | 9                             | NR                             | 905               | 0                             | NR                             |
| 390               | 2                             | NR                             | 520               | 500                           | NR                             | 650               | 406                           | NR                             | 780               | 8                             | NR                             | 910               | 0                             | NR                             |
| 395               | 4                             | NR                             | 525               | 539                           | NR                             | 655               | 355                           | NR                             | 785               | 7                             | NR                             | 915               | 0                             | NR                             |
| 400               | 6                             | NR                             | 530               | 575                           | NR                             | 660               | 309                           | NR                             | 790               | 6                             | NR                             | 920               | 0                             | NR                             |
| 405               | 11                            | NR                             | 535               | 606                           | NR                             | 665               | 269                           | NR                             | 795               | 5                             | NR                             | 925               | 0                             | NR                             |
| 410               | 22                            | NR                             | 540               | 633                           | NR                             | 670               | 231                           | NR                             | 800               | 4                             | NR                             | 930               | 0                             | NR                             |
| 415               | 45                            | NR                             | 545               | 666                           | NR                             | 675               | 199                           | NR                             | 805               | 4                             | NR                             | 935               | 0                             | NR                             |
| 420               | 96                            | NR                             | 550               | 701                           | NR                             | 680               | 171                           | NR                             | 810               | 3                             | NR                             | 940               | 0                             | NR                             |
| 425               | 193                           | NR                             | 555               | 743                           | NR                             | 685               | 147                           | NR                             | 815               | 3                             | NR                             | 945               | 0                             | NR                             |
| 430               | 341                           | NR                             | 560               | 788                           | NR                             | 690               | 126                           | NR                             | 820               | 3                             | NR                             | 950               | 0                             | NR                             |
| 435               | 547                           | NR                             | 565               | 837                           | NR                             | 695               | 107                           | NR                             | 825               | 2                             | NR                             | 955               | 0                             | NR                             |
| 440               | 799                           | NR                             | 570               | 887                           | NR                             | 700               | 92                            | NR                             | 830               | 2                             | NR                             | 960               | 0                             | NR                             |
| 445               | 831                           | NR                             | 575               | 931                           | NR                             | 705               | 78                            | NR                             | 835               | 2                             | NR                             | 965               | 0                             | NR                             |
| 450               | 461                           | NR                             | 580               | 967                           | NR                             | 710               | 67                            | NR                             | 840               | 2                             | NR                             | 970               | 0                             | NR                             |
| 455               | 256                           | NR                             | 585               | 990                           | NR                             | 715               | 57                            | NR                             | 845               | 1                             | NR                             | 975               | 0                             | NR                             |
| 460               | 176                           | NR                             | 590               | 1000                          | NR                             | 720               | 49                            | NR                             | 850               | 1                             | NR                             | 980               | 0                             | NR                             |
| 465               | 107                           | NR                             | 595               | 994                           | NR                             | 725               | 42                            | NR                             | 855               | 1                             | NR                             | 985               | 0                             | NR                             |
| 470               | 74                            | NR                             | 600               | 973                           | NR                             | 730               | 36                            | NR                             | 860               | 1                             | NR                             | 990               | 0                             | NR                             |
| 475               | 67                            | NR                             | 605               | 938                           | NR                             | 735               | 31                            | NR                             | 865               | 1                             | NR                             | 995               | 0                             | NR                             |
| 480               | 68                            | NR                             | 610               | 892                           | NR                             | 740               | 26                            | NR                             | 870               | 1                             | NR                             | 1000              | 0                             | NR                             |
| 485               | 84                            | NR                             | 615               | 838                           | NR                             | 745               | 22                            | NR                             | 875               | 1                             | NR                             |                   |                               |                                |

REPORT NUMBER: SP1-2407-184-5

### Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

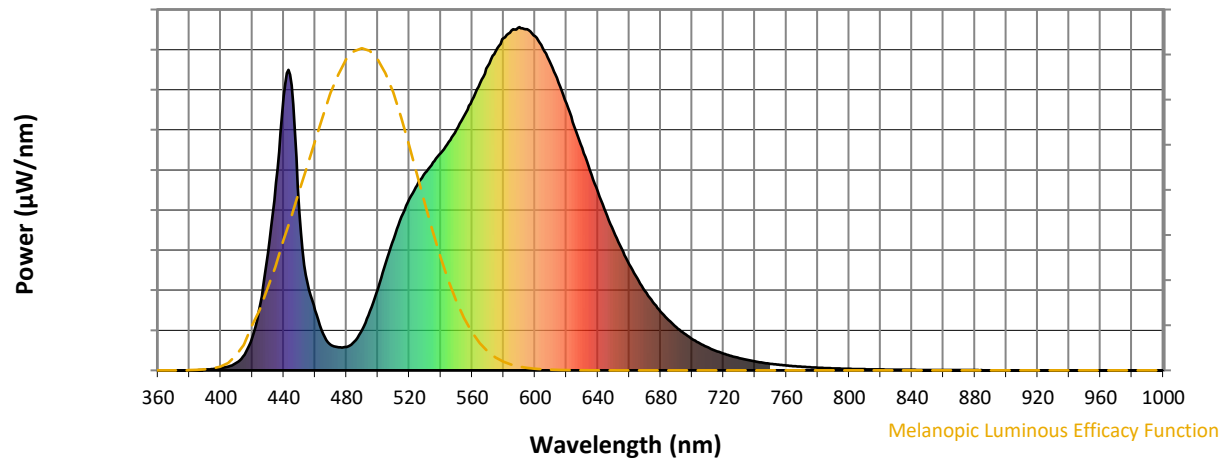
S/P: 1.29

| 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       | 119                         | NR               | 620       | 778                         | NR               | 750       | 19                          | NR               | 880       | 1                           | NR               |
| 365       | 0                           | NR               | 495       | 173                         | NR               | 625       | 711                         | NR               | 755       | 16                          | NR               | 885       | 0                           | NR               |
| 370       | 0                           | NR               | 500       | 239                         | NR               | 630       | 648                         | NR               | 760       | 14                          | NR               | 890       | 0                           | NR               |
| 375       | 0                           | NR               | 505       | 313                         | NR               | 635       | 582                         | NR               | 765       | 12                          | NR               | 895       | 0                           | NR               |
| 380       | 0                           | NR               | 510       | 383                         | NR               | 640       | 520                         | NR               | 770       | 11                          | NR               | 900       | 0                           | NR               |
| 385       | 0                           | NR               | 515       | 448                         | NR               | 645       | 460                         | NR               | 775       | 9                           | NR               | 905       | 0                           | NR               |
| 390       | 2                           | NR               | 520       | 500                         | NR               | 650       | 406                         | NR               | 780       | 8                           | NR               | 910       | 0                           | NR               |
| 395       | 4                           | NR               | 525       | 539                         | NR               | 655       | 355                         | NR               | 785       | 7                           | NR               | 915       | 0                           | NR               |
| 400       | 6                           | NR               | 530       | 575                         | NR               | 660       | 309                         | NR               | 790       | 6                           | NR               | 920       | 0                           | NR               |
| 405       | 11                          | NR               | 535       | 606                         | NR               | 665       | 269                         | NR               | 795       | 5                           | NR               | 925       | 0                           | NR               |
| 410       | 22                          | NR               | 540       | 633                         | NR               | 670       | 231                         | NR               | 800       | 4                           | NR               | 930       | 0                           | NR               |
| 415       | 45                          | NR               | 545       | 666                         | NR               | 675       | 199                         | NR               | 805       | 4                           | NR               | 935       | 0                           | NR               |
| 420       | 96                          | NR               | 550       | 701                         | NR               | 680       | 171                         | NR               | 810       | 3                           | NR               | 940       | 0                           | NR               |
| 425       | 193                         | NR               | 555       | 743                         | NR               | 685       | 147                         | NR               | 815       | 3                           | NR               | 945       | 0                           | NR               |
| 430       | 341                         | NR               | 560       | 788                         | NR               | 690       | 126                         | NR               | 820       | 3                           | NR               | 950       | 0                           | NR               |
| 435       | 547                         | NR               | 565       | 837                         | NR               | 695       | 107                         | NR               | 825       | 2                           | NR               | 955       | 0                           | NR               |
| 440       | 799                         | NR               | 570       | 887                         | NR               | 700       | 92                          | NR               | 830       | 2                           | NR               | 960       | 0                           | NR               |
| 445       | 831                         | NR               | 575       | 931                         | NR               | 705       | 78                          | NR               | 835       | 2                           | NR               | 965       | 0                           | NR               |
| 450       | 461                         | NR               | 580       | 967                         | NR               | 710       | 67                          | NR               | 840       | 2                           | NR               | 970       | 0                           | NR               |
| 455       | 256                         | NR               | 585       | 990                         | NR               | 715       | 57                          | NR               | 845       | 1                           | NR               | 975       | 0                           | NR               |
| 460       | 176                         | NR               | 590       | 1000                        | NR               | 720       | 49                          | NR               | 850       | 1                           | NR               | 980       | 0                           | NR               |
| 465       | 107                         | NR               | 595       | 994                         | NR               | 725       | 42                          | NR               | 855       | 1                           | NR               | 985       | 0                           | NR               |
| 470       | 74                          | NR               | 600       | 973                         | NR               | 730       | 36                          | NR               | 860       | 1                           | NR               | 990       | 0                           | NR               |
| 475       | 67                          | NR               | 605       | 938                         | NR               | 735       | 31                          | NR               | 865       | 1                           | NR               | 995       | 0                           | NR               |
| 480       | 68                          | NR               | 610       | 892                         | NR               | 740       | 26                          | NR               | 870       | 1                           | NR               | 1000      | 0                           | NR               |
| 485       | 84                          | NR               | 615       | 838                         | NR               | 745       | 22                          | NR               | 875       | 1                           | NR               |           |                             |                  |



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### Melanopic Flux vs. Wavelength


**Melanopic Lumens: NR**
**M/P: 2.36**

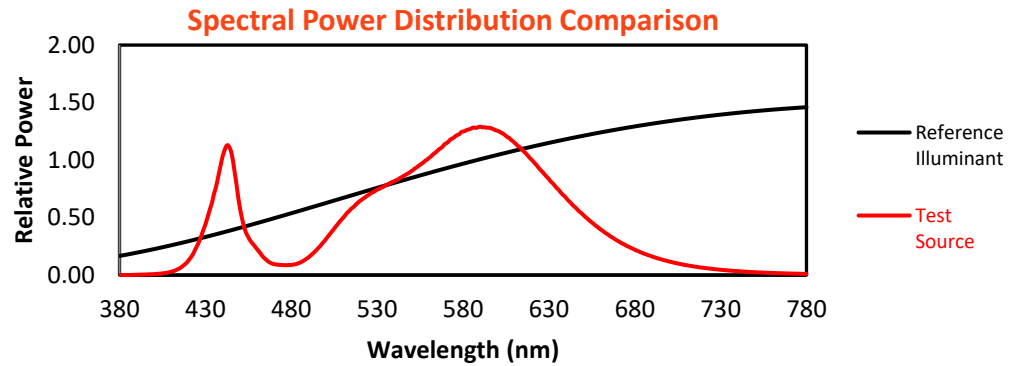
| $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | 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               | 119                                    | NR                             | 620               | 778                                    | NR                             | 750               | 19                                     | NR                             | 880               | 1                                      | NR                             |
| 365               | 0                                      | NR                             | 495               | 173                                    | NR                             | 625               | 711                                    | NR                             | 755               | 16                                     | NR                             | 885               | 0                                      | NR                             |
| 370               | 0                                      | NR                             | 500               | 239                                    | NR                             | 630               | 648                                    | NR                             | 760               | 14                                     | NR                             | 890               | 0                                      | NR                             |
| 375               | 0                                      | NR                             | 505               | 313                                    | NR                             | 635               | 582                                    | NR                             | 765               | 12                                     | NR                             | 895               | 0                                      | NR                             |
| 380               | 0                                      | NR                             | 510               | 383                                    | NR                             | 640               | 520                                    | NR                             | 770               | 11                                     | NR                             | 900               | 0                                      | NR                             |
| 385               | 0                                      | NR                             | 515               | 448                                    | NR                             | 645               | 460                                    | NR                             | 775               | 9                                      | NR                             | 905               | 0                                      | NR                             |
| 390               | 2                                      | NR                             | 520               | 500                                    | NR                             | 650               | 406                                    | NR                             | 780               | 8                                      | NR                             | 910               | 0                                      | NR                             |
| 395               | 4                                      | NR                             | 525               | 539                                    | NR                             | 655               | 355                                    | NR                             | 785               | 7                                      | NR                             | 915               | 0                                      | NR                             |
| 400               | 6                                      | NR                             | 530               | 575                                    | NR                             | 660               | 309                                    | NR                             | 790               | 6                                      | NR                             | 920               | 0                                      | NR                             |
| 405               | 11                                     | NR                             | 535               | 606                                    | NR                             | 665               | 269                                    | NR                             | 795               | 5                                      | NR                             | 925               | 0                                      | NR                             |
| 410               | 22                                     | NR                             | 540               | 633                                    | NR                             | 670               | 231                                    | NR                             | 800               | 4                                      | NR                             | 930               | 0                                      | NR                             |
| 415               | 45                                     | NR                             | 545               | 666                                    | NR                             | 675               | 199                                    | NR                             | 805               | 4                                      | NR                             | 935               | 0                                      | NR                             |
| 420               | 96                                     | NR                             | 550               | 701                                    | NR                             | 680               | 171                                    | NR                             | 810               | 3                                      | NR                             | 940               | 0                                      | NR                             |
| 425               | 193                                    | NR                             | 555               | 743                                    | NR                             | 685               | 147                                    | NR                             | 815               | 3                                      | NR                             | 945               | 0                                      | NR                             |
| 430               | 341                                    | NR                             | 560               | 788                                    | NR                             | 690               | 126                                    | NR                             | 820               | 3                                      | NR                             | 950               | 0                                      | NR                             |
| 435               | 547                                    | NR                             | 565               | 837                                    | NR                             | 695               | 107                                    | NR                             | 825               | 2                                      | NR                             | 955               | 0                                      | NR                             |
| 440               | 799                                    | NR                             | 570               | 887                                    | NR                             | 700               | 92                                     | NR                             | 830               | 2                                      | NR                             | 960               | 0                                      | NR                             |
| 445               | 831                                    | NR                             | 575               | 931                                    | NR                             | 705               | 78                                     | NR                             | 835               | 2                                      | NR                             | 965               | 0                                      | NR                             |
| 450               | 461                                    | NR                             | 580               | 967                                    | NR                             | 710               | 67                                     | NR                             | 840               | 2                                      | NR                             | 970               | 0                                      | NR                             |
| 455               | 256                                    | NR                             | 585               | 990                                    | NR                             | 715               | 57                                     | NR                             | 845               | 1                                      | NR                             | 975               | 0                                      | NR                             |
| 460               | 176                                    | NR                             | 590               | 1000                                   | NR                             | 720               | 49                                     | NR                             | 850               | 1                                      | NR                             | 980               | 0                                      | NR                             |
| 465               | 107                                    | NR                             | 595               | 994                                    | NR                             | 725               | 42                                     | NR                             | 855               | 1                                      | NR                             | 985               | 0                                      | NR                             |
| 470               | 74                                     | NR                             | 600               | 973                                    | NR                             | 730               | 36                                     | NR                             | 860               | 1                                      | NR                             | 990               | 0                                      | NR                             |
| 475               | 67                                     | NR                             | 605               | 938                                    | NR                             | 735               | 31                                     | NR                             | 865               | 1                                      | NR                             | 995               | 0                                      | NR                             |
| 480               | 68                                     | NR                             | 610               | 892                                    | NR                             | 740               | 26                                     | NR                             | 870               | 1                                      | NR                             | 1000              | 0                                      | NR                             |
| 485               | 84                                     | NR                             | 615               | 838                                    | NR                             | 745               | 22                                     | NR                             | 875               | 1                                      | NR                             |                   |                                        |                                |

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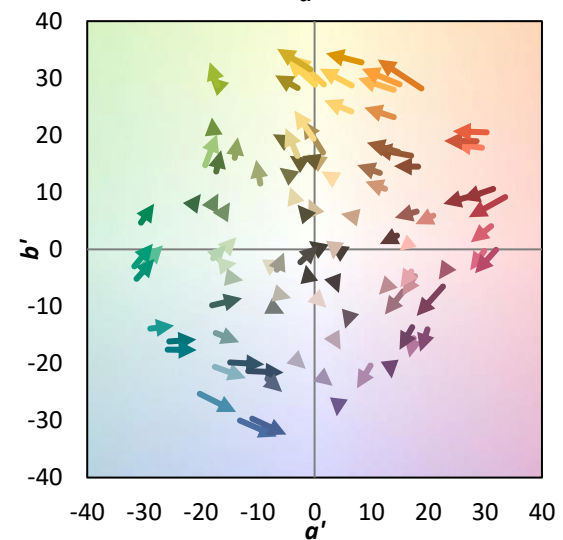
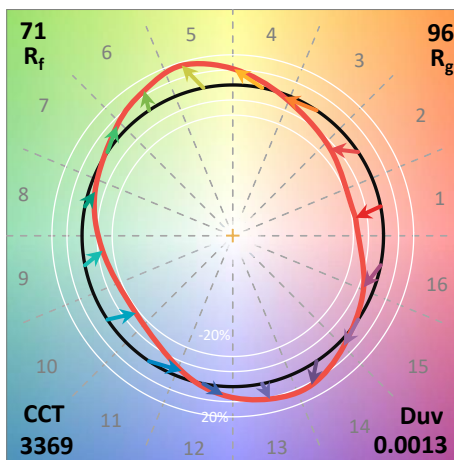
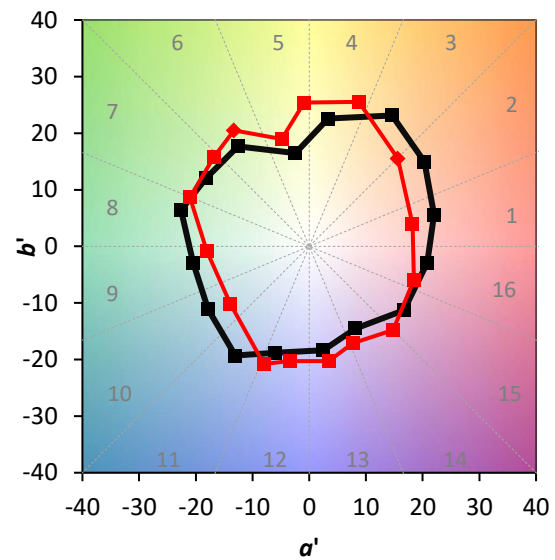
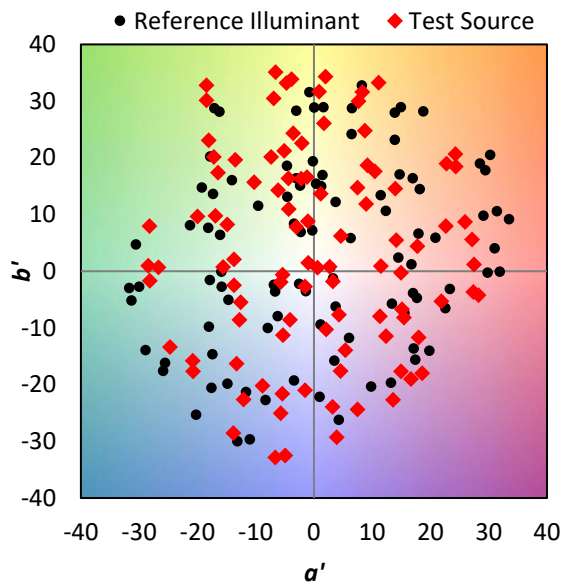
TM-30-18

### Summary

$R_f = 71.4$   
 $R_g = 96$   
 CIE  $R_a = 70.1$   
 $R_g = -40.2$

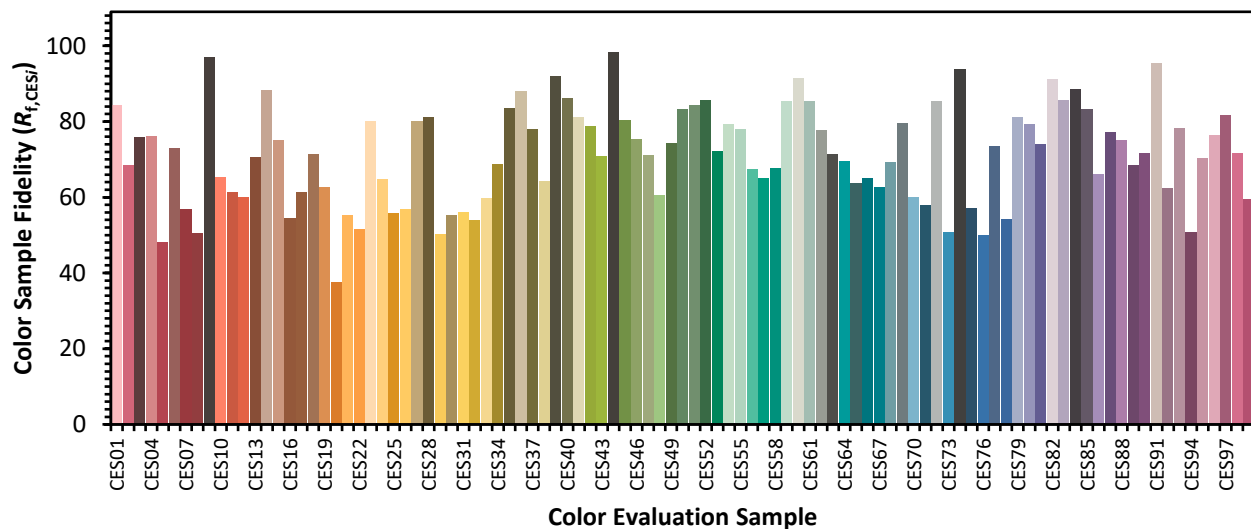


### Color Vector Graphics

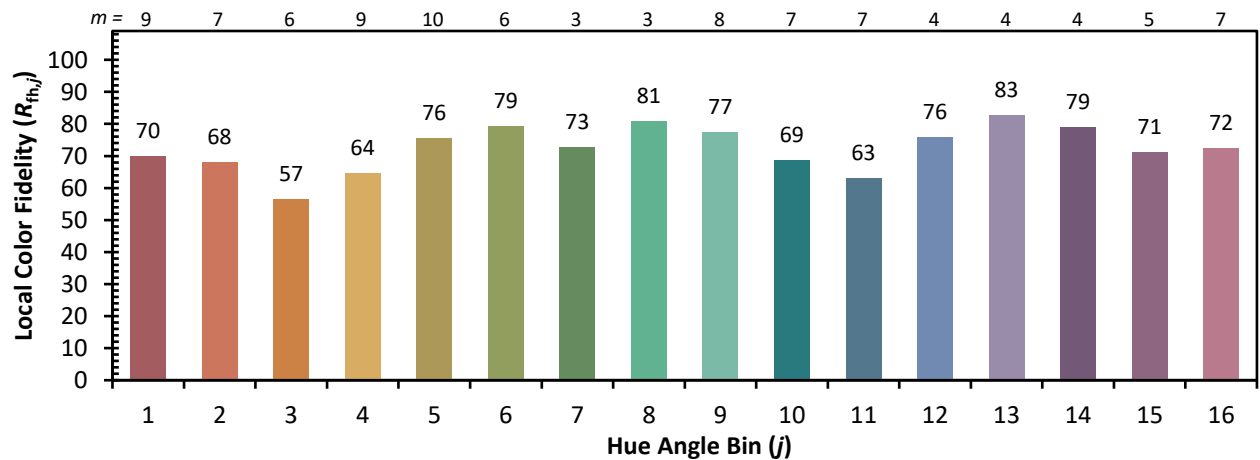
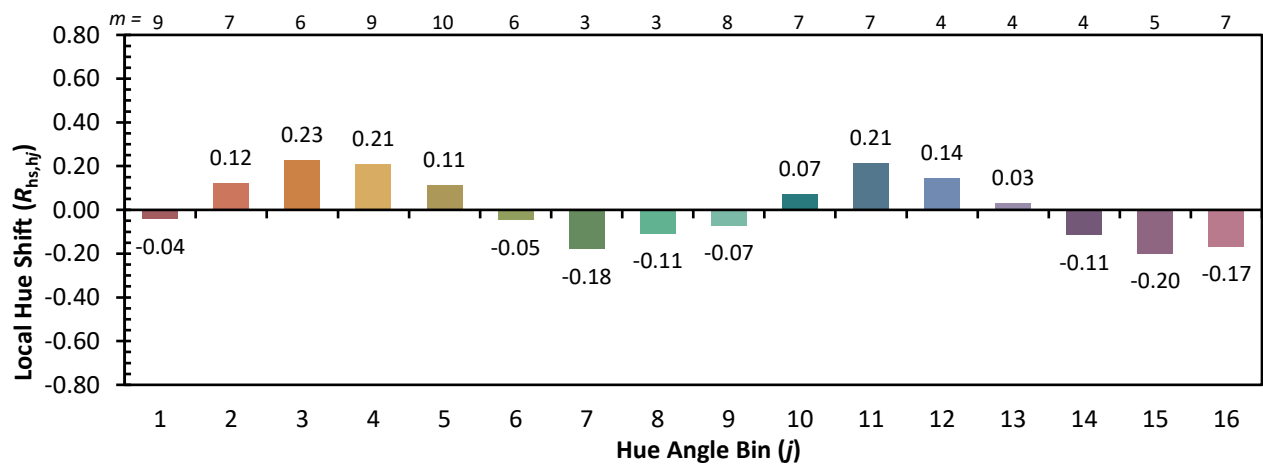
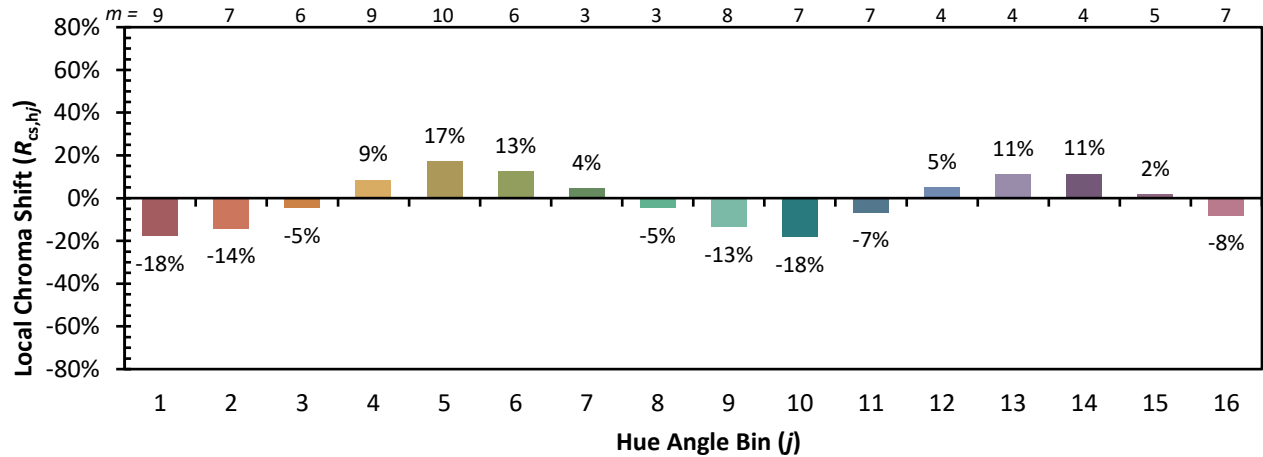


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

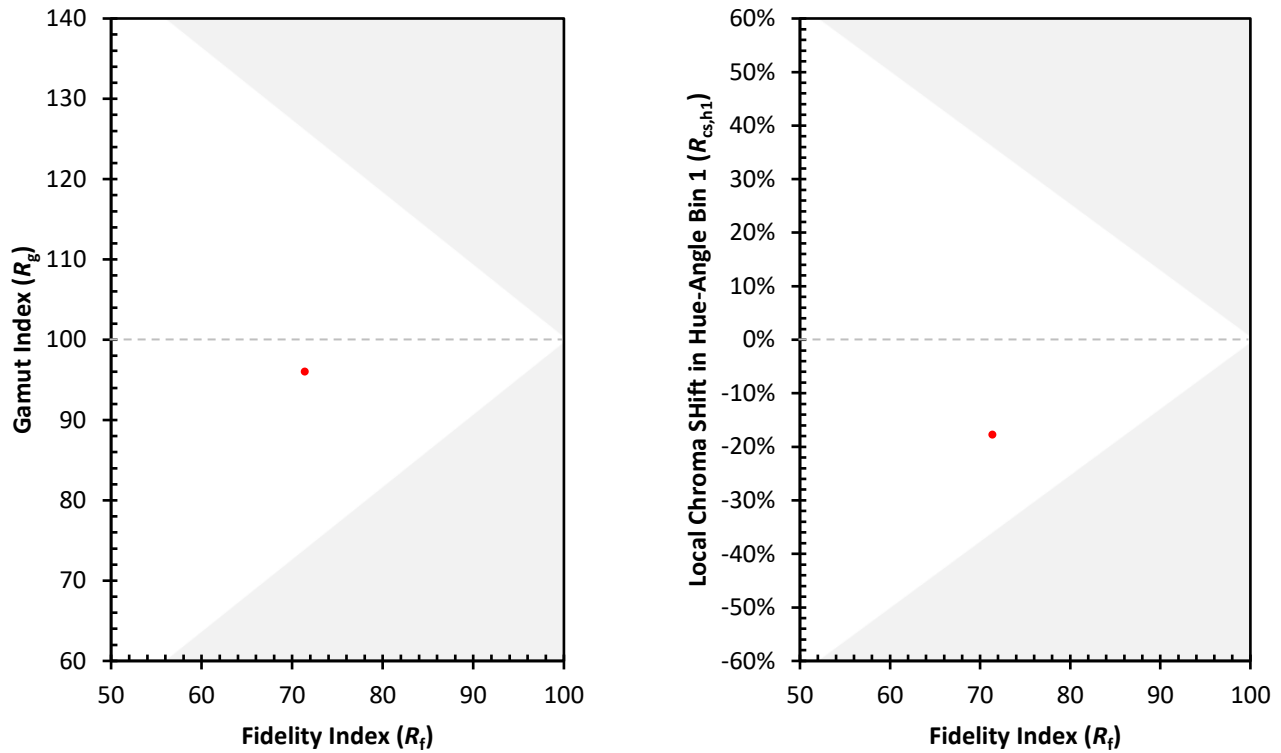
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 57 | CES51 = 84 | CES76 = 50 |
| CES02 = 62 | CES27 = 80 | CES52 = 86 | CES77 = 74 |
| CES03 = 31 | CES28 = 81 | CES53 = 72 | CES78 = 54 |
| CES04 = 70 | CES29 = 50 | CES54 = 79 | CES79 = 81 |
| CES05 = 48 | CES30 = 55 | CES55 = 78 | CES80 = 79 |
| CES06 = 51 | CES31 = 56 | CES56 = 67 | CES81 = 74 |
| CES07 = 40 | CES32 = 54 | CES57 = 65 | CES82 = 91 |
| CES08 = 39 | CES33 = 60 | CES58 = 68 | CES83 = 86 |
| CES09 = 29 | CES34 = 69 | CES59 = 85 | CES84 = 89 |
| CES10 = 75 | CES35 = 83 | CES60 = 91 | CES85 = 83 |
| CES11 = 58 | CES36 = 88 | CES61 = 85 | CES86 = 66 |
| CES12 = 64 | CES37 = 78 | CES62 = 78 | CES87 = 77 |
| CES13 = 43 | CES38 = 64 | CES63 = 71 | CES88 = 75 |
| CES14 = 74 | CES39 = 92 | CES64 = 70 | CES89 = 68 |
| CES15 = 71 | CES40 = 86 | CES65 = 64 | CES90 = 72 |
| CES16 = 47 | CES41 = 81 | CES66 = 65 | CES91 = 95 |
| CES17 = 50 | CES42 = 79 | CES67 = 63 | CES92 = 62 |
| CES18 = 56 | CES43 = 71 | CES68 = 69 | CES93 = 78 |
| CES19 = 72 | CES44 = 98 | CES69 = 80 | CES94 = 51 |
| CES20 = 65 | CES45 = 80 | CES70 = 60 | CES95 = 70 |
| CES21 = 87 | CES46 = 75 | CES71 = 58 | CES96 = 76 |
| CES22 = 79 | CES47 = 71 | CES72 = 85 | CES97 = 82 |
| CES23 = 92 | CES48 = 61 | CES73 = 51 | CES98 = 72 |
| CES24 = 91 | CES49 = 74 | CES74 = 94 | CES99 = 60 |
| CES25 = 72 | CES50 = 83 | CES75 = 57 |            |



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)