

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: P1057701

Luminaire Tested: **GAP-SA1D-827-U-RBC**

Issue Date: 08/07/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1057701  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 08/07/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAP-SA1D-827-U-RBC  
Description: GALLEON PEDESTRAIAN COMPANION 1200mA 1xLight Square PACKAGE 80CRI  
2700K FIXTURE w/ RIGHT CORNER BACKLIGHT CONTROL  
Light Source: (14) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4023.8 lumens  
Efficiency: N/A  
Efficacy: 71.7 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G1

Input Watts (W): 56.1  
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

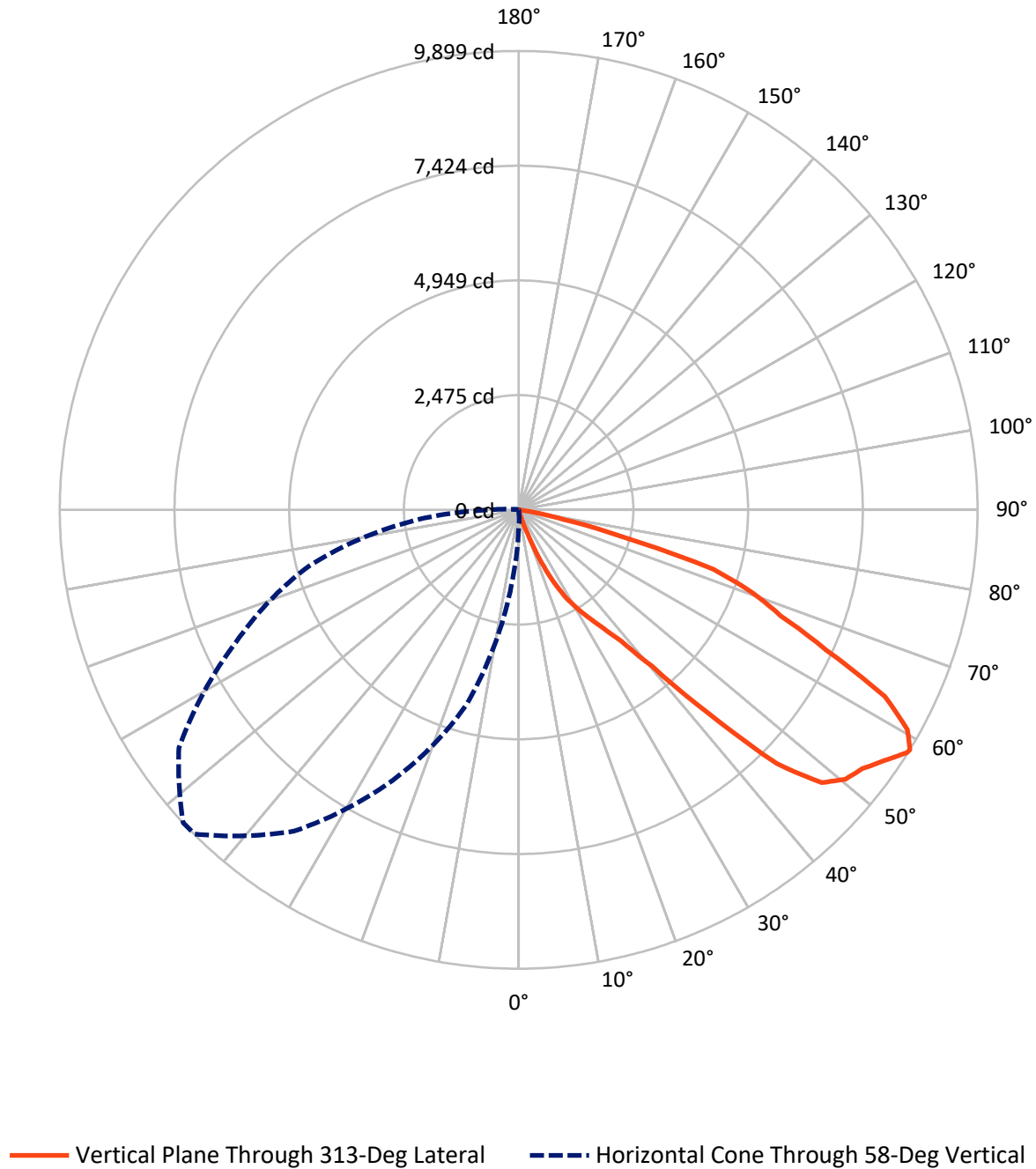




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## Luminous Intensity Polar Plot



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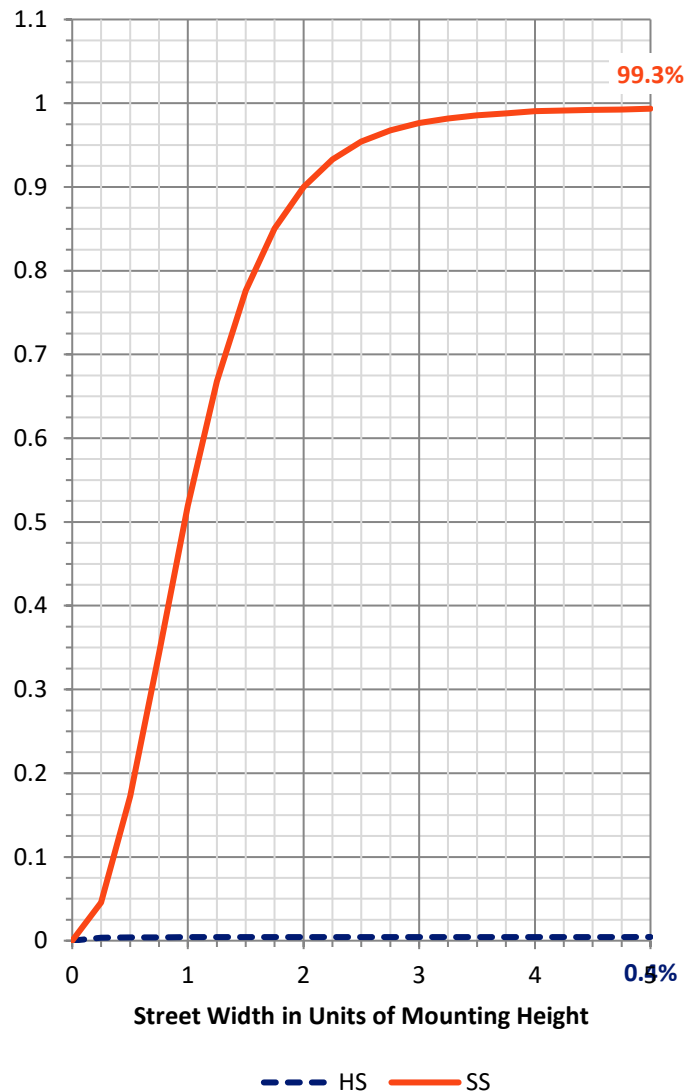
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 18.0     | 0.0    | 18.0   |
|                    | % Fixture | 0.4      | 0.0    | 0.4    |
| <b>Street Side</b> | Lumens    | 4005.8   | 0.0    | 4005.8 |
|                    | % Fixture | 99.6     | 0.0    | 99.6   |
| <b>Total</b>       | Lumens    | 4023.8   | 0.0    | 4023.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.6    | 0.0       |
| 10°-20°   | 7.0    | 0.2       |
| 20°-30°   | 101.6  | 2.5       |
| 30°-40°   | 292.1  | 7.3       |
| 40°-50°   | 832.2  | 20.7      |
| 50°-60°   | 1309.0 | 32.5      |
| 60°-70°   | 1116.3 | 27.7      |
| 70°-80°   | 356.1  | 8.8       |
| 80°-90°   | 9.1    | 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°    | 4023.8 | 100.0     |
| 0°-180°   | 4023.8 | 100.0     |



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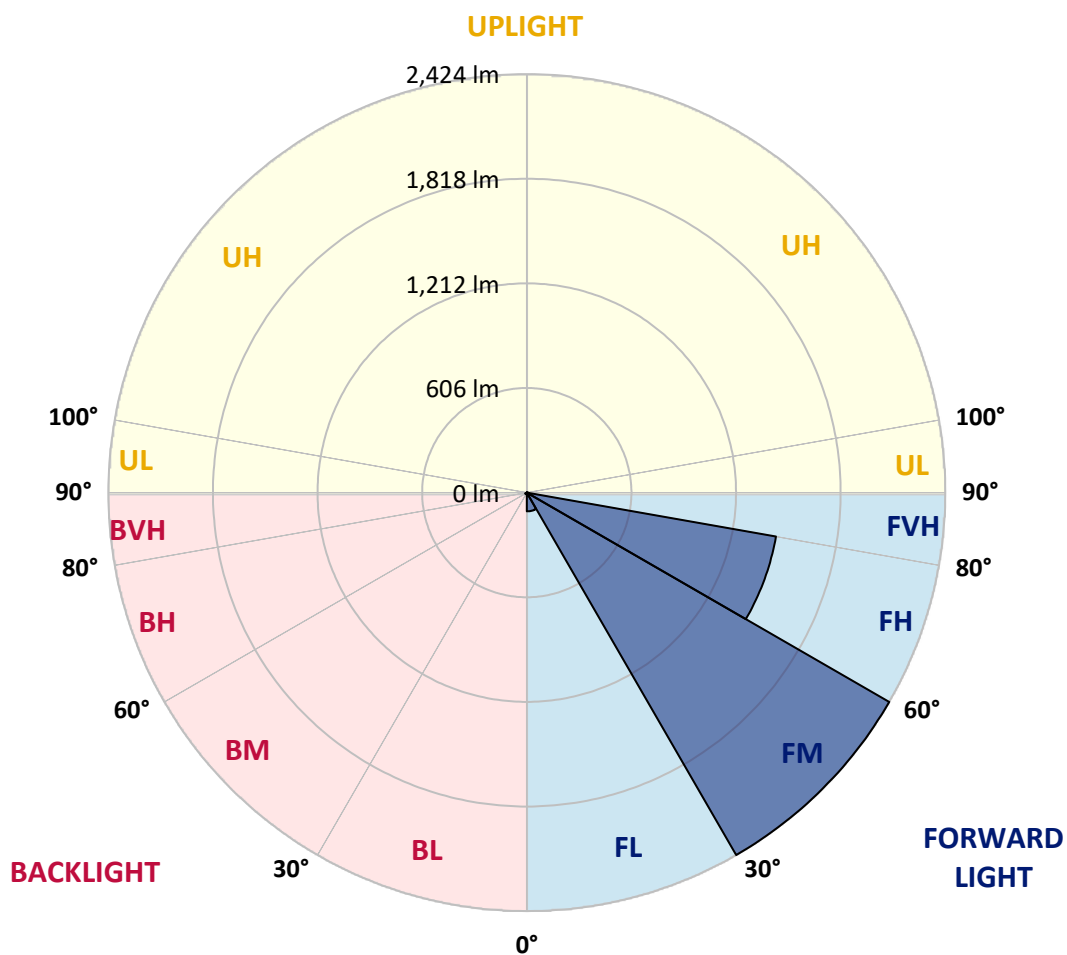
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 108.5  | 2.7       |                         |      |         |
| FM   | (30°-60°)   | 2423.6 | 60.2      |                         |      |         |
| FH   | (60°-80°)   | 1465.2 | 36.4      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 8.6    | 0.2       |                         |      | G0/10   |
| BL   | (0°-30°)    | 0.7    | 0.0       | B0/110                  |      |         |
| BM   | (30°-60°)   | 9.6    | 0.2       | B0/220                  |      |         |
| BH   | (60°-80°)   | 7.2    | 0.2       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.5    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°   | 15°  | 25°  | 35°  | 45°  | 47°  | 55° | 65° | 75° | 85° |
|-------|-------|------|------|------|------|------|------|-----|-----|-----|-----|
| 0°    | 5.6   | 5.6  | 5.6  | 5.6  | 5.6  | 5.6  | 5.6  | 5.6 | 5.6 | 5.6 | 5.6 |
| 2.5°  | 14.5  | 15.3 | 16.1 | 15.3 | 13.7 | 10.5 | 10.5 | 8.1 | 5.6 | 3.2 | 2.4 |
| 5°    | 16.1  | 16.1 | 16.1 | 15.3 | 13.7 | 10.5 | 9.7  | 7.2 | 4.8 | 3.2 | 1.6 |
| 7.5°  | 17.7  | 17.7 | 16.9 | 15.3 | 12.9 | 10.5 | 9.7  | 7.2 | 4.8 | 2.4 | 0.0 |
| 10°   | 19.3  | 19.3 | 17.7 | 16.1 | 12.9 | 9.7  | 8.9  | 6.4 | 4.0 | 1.6 | 0.0 |
| 12.5° | 21.7  | 20.9 | 18.5 | 16.1 | 12.9 | 8.9  | 8.9  | 6.4 | 3.2 | 0.8 | 0.0 |
| 15°   | 25.0  | 22.5 | 19.3 | 16.1 | 12.1 | 8.9  | 8.1  | 5.6 | 2.4 | 0.0 | 0.0 |
| 17.5° | 27.4  | 25.0 | 20.1 | 15.3 | 11.3 | 8.1  | 7.2  | 4.8 | 2.4 | 0.0 | 0.0 |
| 20°   | 29.8  | 25.8 | 20.1 | 15.3 | 11.3 | 7.2  | 6.4  | 4.0 | 0.8 | 0.0 | 0.0 |
| 22.5° | 33.8  | 27.4 | 20.1 | 15.3 | 10.5 | 6.4  | 5.6  | 3.2 | 0.0 | 0.0 | 0.0 |
| 25°   | 41.9  | 29.0 | 20.1 | 14.5 | 9.7  | 5.6  | 4.8  | 1.6 | 0.0 | 0.0 | 0.0 |
| 27.5° | 51.5  | 31.4 | 20.1 | 13.7 | 8.9  | 4.8  | 4.0  | 0.8 | 0.0 | 0.0 | 0.0 |
| 30°   | 62.0  | 33.8 | 20.1 | 13.7 | 8.1  | 4.0  | 3.2  | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 73.3  | 37.0 | 20.1 | 12.9 | 7.2  | 3.2  | 2.4  | 0.0 | 0.0 | 0.0 | 0.0 |
| 35°   | 94.2  | 41.9 | 20.1 | 12.9 | 6.4  | 2.4  | 1.6  | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 103.9 | 48.3 | 20.1 | 12.1 | 6.4  | 1.6  | 0.8  | 0.0 | 0.0 | 0.0 | 0.0 |
| 40°   | 107.9 | 46.7 | 19.3 | 12.1 | 5.6  | 0.8  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 116.8 | 43.5 | 20.1 | 11.3 | 5.6  | 0.8  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 |
| 45°   | 142.5 | 43.5 | 21.7 | 11.3 | 4.8  | 1.6  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 247.2 | 45.1 | 20.9 | 11.3 | 4.8  | 1.6  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 |
| 50°   | 406.7 | 53.1 | 20.1 | 12.1 | 5.6  | 0.8  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 471.9 | 64.4 | 20.1 | 12.9 | 7.2  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 |
| 55°   | 452.6 | 78.9 | 20.1 | 13.7 | 8.9  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 411.5 | 74.9 | 21.7 | 16.1 | 11.3 | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 |
| 58°   | 396.2 | 74.9 | 21.7 | 16.1 | 11.3 | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 |
| 60°   | 310.8 | 76.5 | 25.0 | 17.7 | 12.1 | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 231.1 | 78.1 | 28.2 | 20.1 | 12.1 | 0.8  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 |
| 65°   | 171.5 | 81.3 | 29.8 | 23.4 | 11.3 | 1.6  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 136.9 | 83.8 | 32.2 | 25.8 | 12.9 | 3.2  | 0.8  | 0.0 | 0.0 | 0.0 | 0.0 |
| 70°   | 117.6 | 80.5 | 34.6 | 26.6 | 12.1 | 4.8  | 2.4  | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 104.7 | 75.7 | 39.5 | 25.8 | 12.9 | 4.8  | 2.4  | 0.0 | 0.0 | 0.0 | 0.0 |
| 75°   | 94.2  | 69.3 | 45.1 | 25.0 | 12.9 | 4.8  | 3.2  | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 70.9  | 60.4 | 44.3 | 24.2 | 12.1 | 4.8  | 3.2  | 0.0 | 0.0 | 0.0 | 0.0 |
| 80°   | 35.4  | 40.3 | 38.7 | 21.7 | 9.7  | 4.0  | 3.2  | 0.8 | 0.0 | 0.0 | 0.0 |
| 82.5° | 14.5  | 15.3 | 19.3 | 16.1 | 8.1  | 3.2  | 3.2  | 0.8 | 0.0 | 0.0 | 0.0 |
| 85°   | 1.6   | 3.2  | 5.6  | 6.4  | 5.6  | 3.2  | 3.2  | 0.8 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0   | 0.8  | 3.2  | 4.8  | 4.0  | 2.4  | 1.6  | 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°    | 5.6 | 5.6 | 5.6  | 5.6  | 5.6  | 5.6  | 5.6  | 5.6  | 5.6  | 5.6  | 5.6  |
| 2.5°  | 1.6 | 1.6 | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  |
| 5°    | 0.8 | 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°    | 5.6  | 5.6  | 5.6  | 5.6  | 5.6  | 5.6  | 5.6  | 5.6  | 5.6   | 5.6   | 5.6    |
| 2.5°  | 0.8  | 1.6  | 1.6  | 1.6  | 2.4  | 2.4  | 3.2  | 4.0  | 4.0   | 4.0   | 4.8    |
| 5°    | 0.0  | 0.0  | 0.8  | 0.8  | 1.6  | 2.4  | 3.2  | 4.8  | 5.6   | 5.6   | 6.4    |
| 7.5°  | 0.0  | 0.0  | 0.0  | 0.8  | 1.6  | 2.4  | 3.2  | 4.8  | 6.4   | 7.2   | 8.1    |
| 10°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.8  | 1.6  | 3.2  | 5.6  | 8.1   | 9.7   | 11.3   |
| 12.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.8  | 3.2  | 6.4  | 9.7   | 12.1  | 13.7   |
| 15°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.8  | 3.2  | 6.4  | 12.1  | 14.5  | 17.7   |
| 17.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  | 7.2  | 13.7  | 17.7  | 24.2   |
| 20°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.4  | 7.2  | 15.3  | 21.7  | 36.2   |
| 22.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.4  | 7.2  | 16.9  | 28.2  | 66.8   |
| 25°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.6  | 7.2  | 19.3  | 41.9  | 111.1  |
| 27.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.6  | 8.1  | 23.4  | 58.8  | 162.7  |
| 30°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.6  | 8.1  | 29.0  | 79.7  | 227.1  |
| 32.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.8  | 8.1  | 33.8  | 100.7 | 309.2  |
| 35°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.2  | 40.3  | 133.7 | 388.2  |
| 37.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.2  | 49.9  | 147.4 | 455.0  |
| 40°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.4  | 47.5  | 160.3 | 531.5  |
| 42.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.2  | 43.5  | 178.8 | 651.5  |
| 45°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.2  | 43.5  | 236.8 | 917.2  |
| 47.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.4  | 53.1  | 368.8 | 1402.0 |
| 50°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.8  | 68.5  | 566.1 | 1996.3 |
| 52.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.0  | 82.9  | 696.6 | 2341.0 |
| 55°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.0  | 99.9  | 697.4 | 2329.7 |
| 57.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.8  | 111.1 | 624.1 | 2102.6 |
| 58°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.6  | 110.3 | 604.0 | 2039.8 |
| 60°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.8  | 8.1  | 96.6  | 524.2 | 1780.5 |
| 62.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  | 12.9 | 84.6  | 376.1 | 1476.1 |
| 65°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.4  | 14.5 | 77.3  | 273.0 | 1108.1 |
| 67.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.1  | 16.9 | 74.1  | 193.3 | 770.7  |
| 70°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.7  | 19.3 | 68.5  | 138.5 | 507.3  |
| 72.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.7  | 24.2 | 64.4  | 108.7 | 306.0  |
| 75°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.7  | 30.6 | 56.4  | 88.6  | 164.3  |
| 77.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.7  | 33.0 | 46.7  | 64.4  | 99.9   |
| 80°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.9  | 29.8 | 33.8  | 28.2  | 33.8   |
| 82.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.8  | 17.7 | 7.2   | 7.2   | 11.3   |
| 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: P1057701

CATALOG NUMBER: GAP-SA1D-827-U-RBC

**CANDELA DISTRIBUTION (continued):**

|       | 285°   | 295°   | 305°   | 313°   | 315°   | 325°   | 335°   | 345°   | 355°   | 360°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0°    | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 5.6   |
| 2.5°  | 5.6    | 5.6    | 5.6    | 5.6    | 6.4    | 6.4    | 8.9    | 11.3   | 13.7   | 14.5  |
| 5°    | 7.2    | 8.1    | 8.9    | 8.9    | 8.9    | 9.7    | 11.3   | 12.9   | 15.3   | 16.1  |
| 7.5°  | 10.5   | 11.3   | 12.9   | 12.9   | 12.9   | 13.7   | 14.5   | 16.1   | 17.7   | 17.7  |
| 10°   | 13.7   | 16.1   | 16.9   | 17.7   | 18.5   | 18.5   | 18.5   | 19.3   | 20.1   | 19.3  |
| 12.5° | 18.5   | 21.7   | 25.8   | 26.6   | 26.6   | 26.6   | 25.8   | 24.2   | 22.5   | 21.7  |
| 15°   | 25.8   | 35.4   | 48.3   | 53.1   | 50.7   | 45.1   | 39.5   | 30.6   | 26.6   | 25.0  |
| 17.5° | 47.5   | 96.6   | 175.6  | 194.1  | 190.0  | 163.5  | 95.8   | 46.7   | 31.4   | 27.4  |
| 20°   | 128.0  | 312.5  | 515.4  | 564.5  | 590.3  | 488.8  | 282.7  | 108.7  | 38.7   | 29.8  |
| 22.5° | 276.2  | 649.1  | 1005.8 | 1133.0 | 1141.1 | 918.0  | 550.0  | 220.7  | 55.6   | 33.8  |
| 25°   | 444.5  | 1038.0 | 1524.4 | 1647.6 | 1650.0 | 1414.9 | 879.4  | 357.6  | 84.6   | 41.9  |
| 27.5° | 681.3  | 1455.2 | 1999.5 | 2101.8 | 2100.2 | 1861.8 | 1270.8 | 546.0  | 118.4  | 51.5  |
| 30°   | 923.7  | 1780.5 | 2312.8 | 2440.0 | 2452.1 | 2167.0 | 1597.7 | 769.1  | 154.6  | 62.0  |
| 32.5° | 1163.7 | 2021.3 | 2598.7 | 2767.8 | 2757.3 | 2436.8 | 1825.6 | 951.9  | 216.6  | 73.3  |
| 35°   | 1352.9 | 2226.6 | 2915.2 | 3122.9 | 3131.0 | 2733.2 | 2027.7 | 1129.0 | 269.8  | 94.2  |
| 37.5° | 1514.8 | 2491.6 | 3336.3 | 3576.3 | 3586.8 | 3102.0 | 2239.5 | 1303.0 | 315.7  | 103.9 |
| 40°   | 1714.5 | 2926.4 | 4033.7 | 4441.2 | 4442.8 | 3789.7 | 2620.4 | 1497.8 | 377.7  | 107.9 |
| 42.5° | 2163.0 | 3858.2 | 5396.3 | 5981.7 | 6032.5 | 5216.7 | 3486.1 | 1920.6 | 475.1  | 116.8 |
| 45°   | 3060.1 | 5086.2 | 7134.1 | 7808.1 | 7872.6 | 6992.4 | 4970.3 | 2896.6 | 689.3  | 142.5 |
| 47.5° | 4127.1 | 6154.1 | 8143.9 | 8793.0 | 8835.7 | 7832.3 | 5964.0 | 4025.7 | 1173.3 | 247.2 |
| 50°   | 4783.5 | 6549.5 | 8515.2 | 9134.5 | 9141.7 | 8108.5 | 6275.7 | 4611.9 | 1671.8 | 406.7 |
| 52.5° | 4987.2 | 6600.2 | 8529.7 | 9278.6 | 9299.5 | 8076.3 | 6318.3 | 4730.3 | 1879.6 | 471.9 |
| 55°   | 4904.2 | 6570.4 | 8682.7 | 9554.0 | 9576.6 | 8207.6 | 6289.4 | 4600.7 | 1782.1 | 452.6 |
| 57.5° | 4715.0 | 6686.4 | 8933.9 | 9881.0 | 9881.0 | 8450.0 | 6396.5 | 4383.2 | 1543.8 | 411.5 |
| 58°   | 4686.8 | 6715.4 | 8947.6 | 9898.7 | 9891.4 | 8465.3 | 6440.7 | 4351.8 | 1491.4 | 396.2 |
| 60°   | 4648.2 | 6804.7 | 8846.2 | 9637.0 | 9616.0 | 8357.4 | 6521.3 | 4323.6 | 1237.7 | 310.8 |
| 62.5° | 4591.8 | 6603.4 | 8106.9 | 8867.1 | 8813.1 | 7601.2 | 6290.2 | 4158.5 | 923.7  | 231.1 |
| 65°   | 4302.7 | 5860.1 | 6758.0 | 7284.7 | 7267.8 | 6253.1 | 5414.0 | 3725.3 | 665.2  | 171.5 |
| 67.5° | 3627.0 | 4587.8 | 5459.1 | 6093.7 | 6097.7 | 5104.8 | 4234.2 | 2977.2 | 452.6  | 136.9 |
| 70°   | 2551.2 | 3383.8 | 4640.9 | 5347.2 | 5379.4 | 4281.8 | 3136.6 | 1984.2 | 298.8  | 117.6 |
| 72.5° | 1523.6 | 2556.0 | 3859.0 | 4395.3 | 4378.4 | 3553.0 | 2327.3 | 1183.0 | 182.0  | 104.7 |
| 75°   | 738.5  | 1527.6 | 1950.4 | 2262.1 | 2249.2 | 1777.3 | 1240.2 | 579.8  | 132.9  | 94.2  |
| 77.5° | 200.5  | 469.5  | 755.4  | 982.5  | 1009.0 | 711.9  | 406.7  | 155.4  | 82.9   | 70.9  |
| 80°   | 67.6   | 145.0  | 246.4  | 335.0  | 343.9  | 307.6  | 153.0  | 54.8   | 36.2   | 35.4  |
| 82.5° | 25.8   | 35.4   | 45.1   | 40.3   | 40.3   | 41.9   | 33.0   | 23.4   | 16.9   | 14.5  |
| 85°   | 0.0    | 0.0    | 0.8    | 1.6    | 1.6    | 2.4    | 2.4    | 2.4    | 1.6    | 1.6   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   |

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-8

Test Date: 10/10/2024

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

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

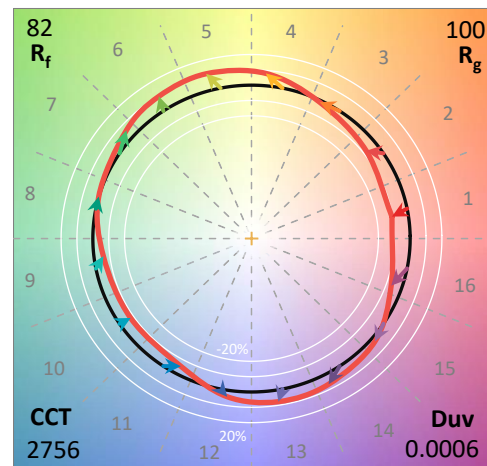
### Test Information

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

### Spectral Parameters

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

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



### Test Conditions

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

REPORT NUMBER: SP1-2407-184-8

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

REPORT NUMBER: SP1-2407-184-8

**CIE 1931 Chromaticity Diagram**



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



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-8

### Photopic Flux vs. Wavelength



### Photopic Lumens: NR

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

REPORT NUMBER: SP1-2407-184-8

### Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.2

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

REPORT NUMBER: SP1-2407-184-8

### Melanopic Flux vs. Wavelength


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

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

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TM-30-18

### Summary

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

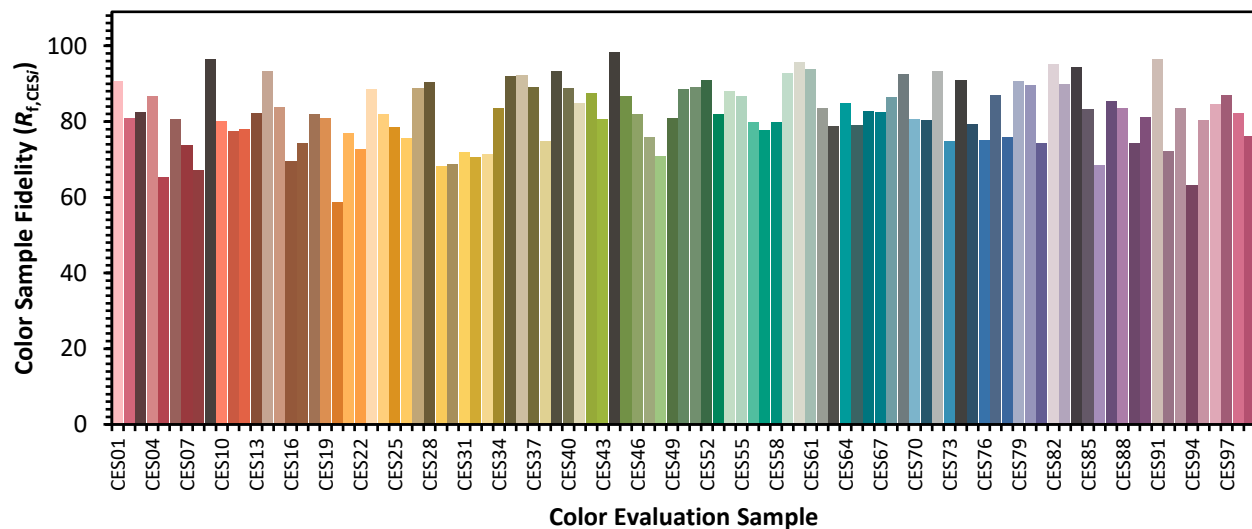


### Color Vector Graphics



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

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



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)