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: P1057652

Luminaire Tested: **GAP-SA2A-722-U-RBC**

Issue Date: 08/07/2025

Report Generated By 670347003

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Peachtree City, GA 30269

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P1057652 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 08/07/2025 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | STREETWORKS |
| Catalog Number: | GAP-SA2A-722-U-RBC |
| Description: | GALLEON PEDESTRAIAN COMPANION 615mA 2xLight Square PACKAGE 70CRI 2200K FIXTURE w/ RIGHT CORNER BACKLIGHT CONTROL |
| Light Source: | (28) 2200K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

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

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

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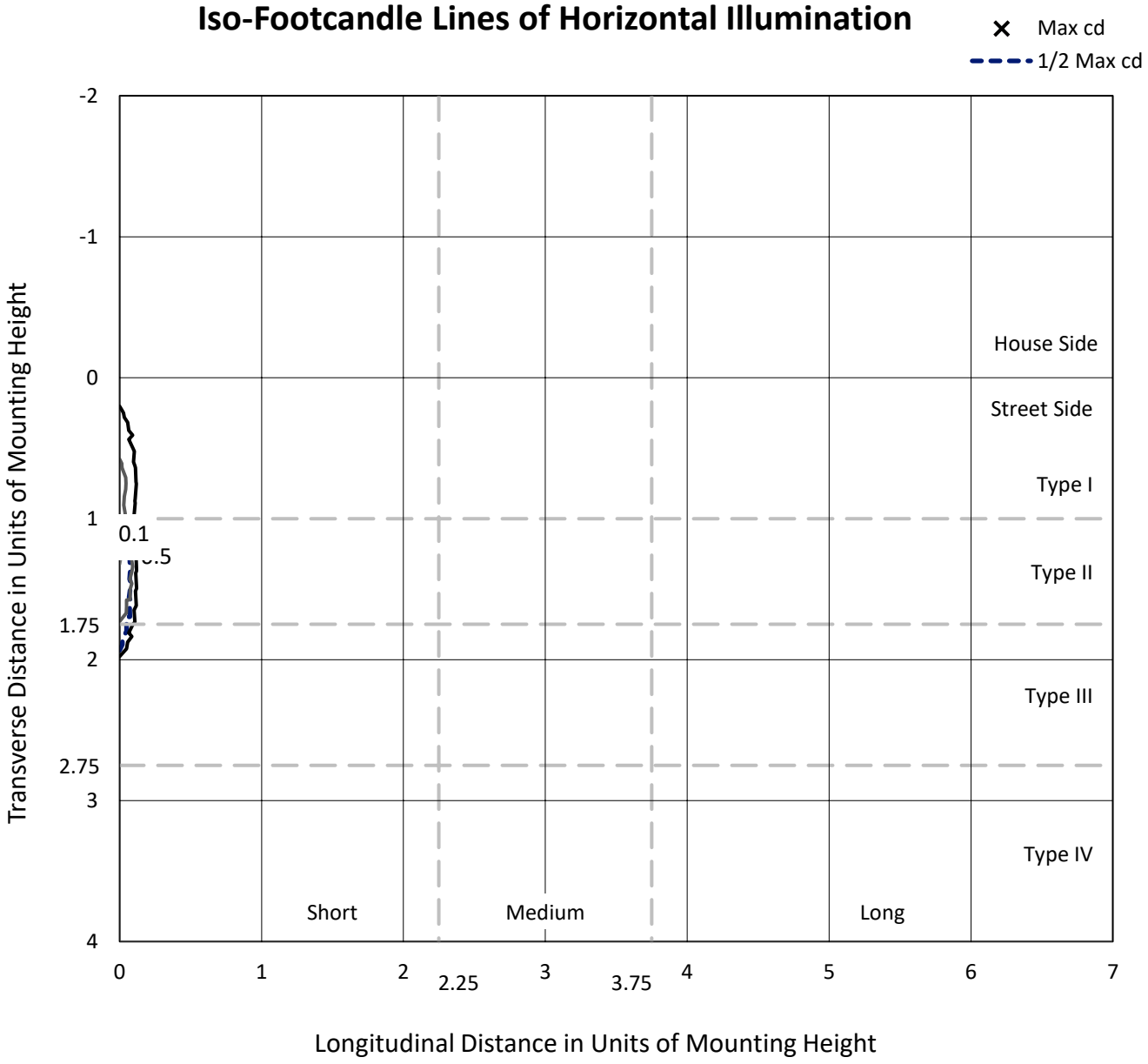
## Iso-Footcandle Lines of Horizontal Illumination




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

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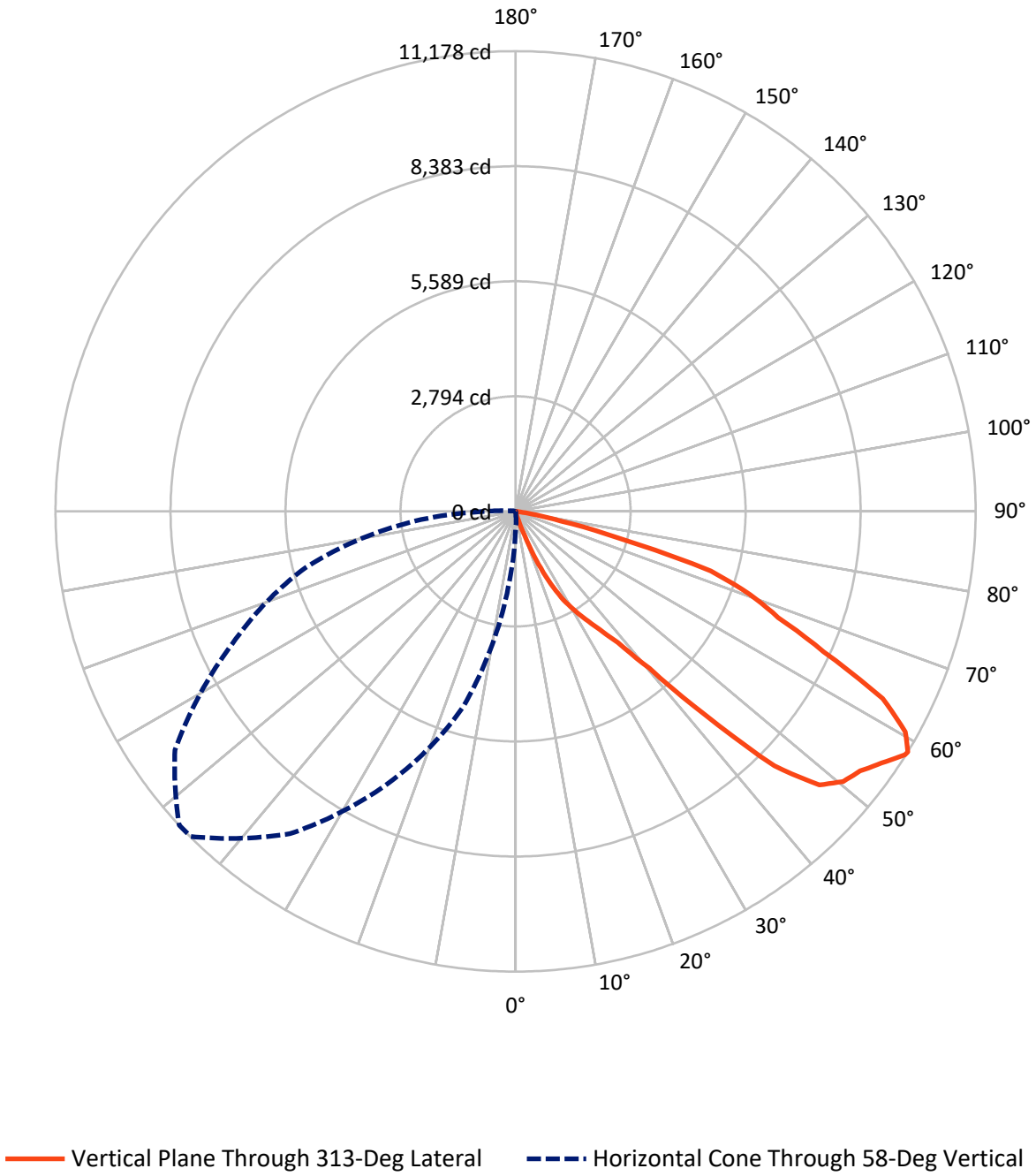
## Luminous Intensity Polar Plot



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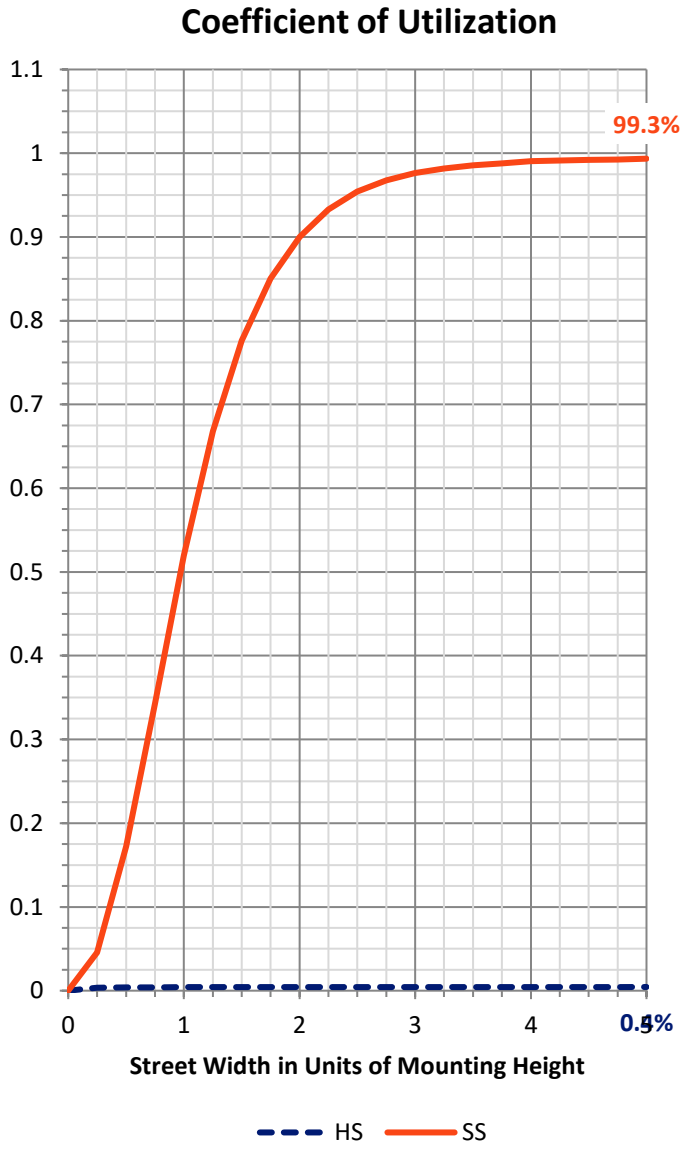
**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 20.3 | 0.0 | 20.3 |
| | % Fixture | 0.4 | 0.0 | 0.4 |
| **Street Side** | Lumens | 4523.4 | 0.0 | 4523.4 |
| | % Fixture | 99.6 | 0.0 | 99.6 |
| **Total** | Lumens | 4543.7 | 0.0 | 4543.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 0.7 | 0.0 |
| 10°-20° | 7.9 | 0.2 |
| 20°-30° | 114.7 | 2.5 |
| 30°-40° | 329.9 | 7.3 |
| 40°-50° | 939.7 | 20.7 |
| 50°-60° | 1478.1 | 32.5 |
| 60°-70° | 1260.5 | 27.7 |
| 70°-80° | 402.1 | 8.8 |
| 80°-90° | 10.2 | 0.2 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 4543.7 | 100.0 |
| 0°-180° | 4543.7 | 100.0 |



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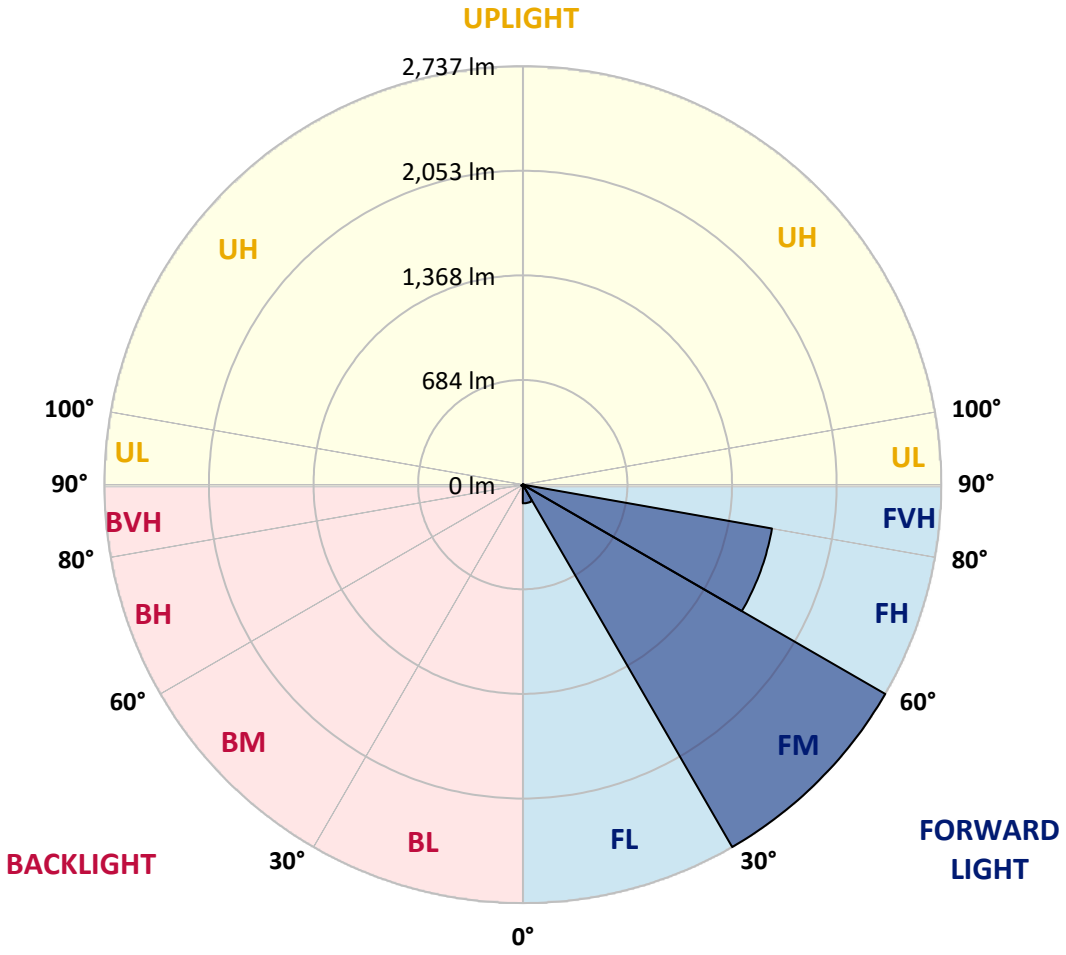
## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

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

**BUG Rating: B0-U0-G1**
Type III Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| 2.5° | 16.4 | 17.3 | 18.2 | 17.3 | 15.5 | 11.8 | 11.8 | 9.1 | 6.4 | 3.6 | 2.7 |
| 5° | 18.2 | 18.2 | 18.2 | 17.3 | 15.5 | 11.8 | 10.9 | 8.2 | 5.5 | 3.6 | 1.8 |
| 7.5° | 20.0 | 20.0 | 19.1 | 17.3 | 14.5 | 11.8 | 10.9 | 8.2 | 5.5 | 2.7 | 0.0 |
| 10° | 21.8 | 21.8 | 20.0 | 18.2 | 14.5 | 10.9 | 10.0 | 7.3 | 4.5 | 1.8 | 0.0 |
| 12.5° | 24.6 | 23.6 | 20.9 | 18.2 | 14.5 | 10.0 | 10.0 | 7.3 | 3.6 | 0.9 | 0.0 |
| 15° | 28.2 | 25.5 | 21.8 | 18.2 | 13.6 | 10.0 | 9.1 | 6.4 | 2.7 | 0.0 | 0.0 |
| 17.5° | 30.9 | 28.2 | 22.7 | 17.3 | 12.7 | 9.1 | 8.2 | 5.5 | 2.7 | 0.0 | 0.0 |
| 20° | 33.6 | 29.1 | 22.7 | 17.3 | 12.7 | 8.2 | 7.3 | 4.5 | 0.9 | 0.0 | 0.0 |
| 22.5° | 38.2 | 30.9 | 22.7 | 17.3 | 11.8 | 7.3 | 6.4 | 3.6 | 0.0 | 0.0 | 0.0 |
| 25° | 47.3 | 32.7 | 22.7 | 16.4 | 10.9 | 6.4 | 5.5 | 1.8 | 0.0 | 0.0 | 0.0 |
| 27.5° | 58.2 | 35.5 | 22.7 | 15.5 | 10.0 | 5.5 | 4.5 | 0.9 | 0.0 | 0.0 | 0.0 |
| 30° | 70.0 | 38.2 | 22.7 | 15.5 | 9.1 | 4.5 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 82.7 | 41.8 | 22.7 | 14.5 | 8.2 | 3.6 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 106.4 | 47.3 | 22.7 | 14.5 | 7.3 | 2.7 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 117.3 | 54.6 | 22.7 | 13.6 | 7.3 | 1.8 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 121.9 | 52.7 | 21.8 | 13.6 | 6.4 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 131.9 | 49.1 | 22.7 | 12.7 | 6.4 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 161.0 | 49.1 | 24.6 | 12.7 | 5.5 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 279.2 | 50.9 | 23.6 | 12.7 | 5.5 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 459.2 | 60.0 | 22.7 | 13.6 | 6.4 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 532.9 | 72.7 | 22.7 | 14.5 | 8.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 511.0 | 89.1 | 22.7 | 15.5 | 10.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 464.7 | 84.6 | 24.6 | 18.2 | 12.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 58° | *447.4* | *84.6* | *24.6* | *18.2* | *12.7* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* |
| 60° | 351.0 | 86.4 | 28.2 | 20.0 | 13.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 261.0 | 88.2 | 31.8 | 22.7 | 13.6 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 193.7 | 91.8 | 33.6 | 26.4 | 12.7 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 154.6 | 94.6 | 36.4 | 29.1 | 14.5 | 3.6 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 132.8 | 90.9 | 39.1 | 30.0 | 13.6 | 5.5 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 118.2 | 85.5 | 44.6 | 29.1 | 14.5 | 5.5 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 106.4 | 78.2 | 50.9 | 28.2 | 14.5 | 5.5 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 80.0 | 68.2 | 50.0 | 27.3 | 13.6 | 5.5 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 40.0 | 45.5 | 43.6 | 24.6 | 10.9 | 4.5 | 3.6 | 0.9 | 0.0 | 0.0 | 0.0 |
| 82.5° | 16.4 | 17.3 | 21.8 | 18.2 | 9.1 | 3.6 | 3.6 | 0.9 | 0.0 | 0.0 | 0.0 |
| 85° | 1.8 | 3.6 | 6.4 | 7.3 | 6.4 | 3.6 | 3.6 | 0.9 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.9 | 3.6 | 5.5 | 4.5 | 2.7 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| 2.5° | 1.8 | 1.8 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 5° | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 15° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 17.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 22.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 27.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 58° | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* |
| 60° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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**CANDELA DISTRIBUTION (continued):**

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| 2.5° | 0.9 | 1.8 | 1.8 | 1.8 | 2.7 | 2.7 | 3.6 | 4.5 | 4.5 | 4.5 | 5.5 |
| 5° | 0.0 | 0.0 | 0.9 | 0.9 | 1.8 | 2.7 | 3.6 | 5.5 | 6.4 | 6.4 | 7.3 |
| 7.5° | 0.0 | 0.0 | 0.0 | 0.9 | 1.8 | 2.7 | 3.6 | 5.5 | 7.3 | 8.2 | 9.1 |
| 10° | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 1.8 | 3.6 | 6.4 | 9.1 | 10.9 | 12.7 |
| 12.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 3.6 | 7.3 | 10.9 | 13.6 | 15.5 |
| 15° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 3.6 | 7.3 | 13.6 | 16.4 | 20.0 |
| 17.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.6 | 8.2 | 15.5 | 20.0 | 27.3 |
| 20° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.7 | 8.2 | 17.3 | 24.6 | 40.9 |
| 22.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.7 | 8.2 | 19.1 | 31.8 | 75.5 |
| 25° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 8.2 | 21.8 | 47.3 | 125.5 |
| 27.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 9.1 | 26.4 | 66.4 | 183.7 |
| 30° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 9.1 | 32.7 | 90.0 | 256.4 |
| 32.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 9.1 | 38.2 | 113.7 | 349.2 |
| 35° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.2 | 45.5 | 150.9 | 438.3 |
| 37.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.2 | 56.4 | 166.4 | 513.8 |
| 40° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.3 | 53.7 | 181.0 | 600.2 |
| 42.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.2 | 49.1 | 201.9 | 735.6 |
| 45° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.2 | 49.1 | 267.3 | 1035.7 |
| 47.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.3 | 60.0 | 416.5 | 1583.1 |
| 50° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.5 | 77.3 | 639.3 | 2254.2 |
| 52.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.5 | 93.7 | 786.6 | 2643.4 |
| 55° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.5 | 112.8 | 787.5 | 2630.7 |
| 57.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.5 | 125.5 | 704.7 | 2374.3 |
| 58° | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *6.4* | *124.6* | *682.0* | *2303.3* |
| 60° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 9.1 | 109.1 | 592.0 | 2010.5 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.6 | 14.5 | 95.5 | 424.7 | 1666.8 |
| 65° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.3 | 16.4 | 87.3 | 308.3 | 1251.2 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.1 | 19.1 | 83.7 | 218.2 | 870.2 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.9 | 21.8 | 77.3 | 156.4 | 572.9 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.9 | 27.3 | 72.7 | 122.8 | 345.5 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.9 | 34.6 | 63.7 | 100.0 | 185.5 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.9 | 37.3 | 52.7 | 72.7 | 112.8 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.0 | 33.6 | 38.2 | 31.8 | 38.2 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.5 | 20.0 | 8.2 | 8.2 | 12.7 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1057652
CATALOG NUMBER: GAP-SA2A-722-U-RBC

**CANDELA DISTRIBUTION (continued):**

| | 285° | 295° | 305° | 313° | 315° | 325° | 335° | 345° | 355° | 360° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 6.4 | 6.4 | 6.4 | *6.4* | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| 2.5° | 6.4 | 6.4 | 6.4 | *6.4* | 7.3 | 7.3 | 10.0 | 12.7 | 15.5 | 16.4 |
| 5° | 8.2 | 9.1 | 10.0 | *10.0* | 10.0 | 10.9 | 12.7 | 14.5 | 17.3 | 18.2 |
| 7.5° | 11.8 | 12.7 | 14.5 | *14.5* | 14.5 | 15.5 | 16.4 | 18.2 | 20.0 | 20.0 |
| 10° | 15.5 | 18.2 | 19.1 | *20.0* | 20.9 | 20.9 | 20.9 | 21.8 | 22.7 | 21.8 |
| 12.5° | 20.9 | 24.6 | 29.1 | *30.0* | 30.0 | 30.0 | 29.1 | 27.3 | 25.5 | 24.6 |
| 15° | 29.1 | 40.0 | 54.6 | *60.0* | 57.3 | 50.9 | 44.6 | 34.6 | 30.0 | 28.2 |
| 17.5° | 53.7 | 109.1 | 198.2 | *219.1* | 214.6 | 184.6 | 108.2 | 52.7 | 35.5 | 30.9 |
| 20° | 144.6 | 352.8 | 582.0 | *637.4* | 666.5 | 552.0 | 319.2 | 122.8 | 43.6 | 33.6 |
| 22.5° | 311.9 | 732.9 | 1135.8 | *1279.4* | 1288.5 | 1036.6 | 621.1 | 249.2 | 62.7 | 38.2 |
| 25° | 502.0 | 1172.1 | 1721.4 | *1860.5* | 1863.2 | 1597.7 | 993.0 | 403.7 | 95.5 | 47.3 |
| 27.5° | 769.3 | 1643.2 | 2257.9 | *2373.4* | 2371.5 | 2102.4 | 1434.9 | 616.5 | 133.7 | 58.2 |
| 30° | 1043.0 | 2010.5 | 2611.6 | *2755.3* | 2768.9 | 2447.0 | 1804.1 | 868.4 | 174.6 | 70.0 |
| 32.5° | 1314.0 | 2282.4 | 2934.4 | *3125.4* | 3113.6 | 2751.6 | 2061.5 | 1074.8 | 244.6 | 82.7 |
| 35° | 1527.7 | 2514.3 | 3291.8 | *3526.4* | 3535.5 | 3086.3 | 2289.7 | 1274.9 | 304.6 | 106.4 |
| 37.5° | 1710.5 | 2813.5 | 3767.4 | *4038.3* | 4050.2 | 3502.7 | 2528.9 | 1471.3 | 356.5 | 117.3 |
| 40° | 1936.0 | 3304.5 | 4554.8 | *5015.0* | 5016.8 | 4279.3 | 2959.0 | 1691.4 | 426.5 | 121.9 |
| 42.5° | 2442.5 | 4356.6 | 6093.4 | *6754.5* | 6811.8 | 5890.7 | 3936.5 | 2168.8 | 536.5 | 131.9 |
| 45° | 3455.5 | 5743.3 | 8055.8 | *8816.9* | 8889.6 | 7895.7 | 5612.4 | 3270.9 | 778.4 | 161.0 |
| 47.5° | 4660.3 | 6949.1 | 9196.1 | *9929.0* | 9977.2 | 8844.2 | 6734.5 | 4545.8 | 1324.9 | 279.2 |
| 50° | 5401.4 | 7395.6 | 9615.3 | *10314.6* | 10322.7 | 9156.1 | 7086.4 | 5207.7 | 1887.8 | 459.2 |
| 52.5° | 5631.5 | 7452.9 | 9631.6 | *10477.3* | 10501.0 | 9119.7 | 7134.6 | 5341.4 | 2122.4 | 532.9 |
| 55° | 5537.8 | 7419.2 | 9804.4 | *10788.3* | 10813.8 | 9267.9 | 7101.9 | 5195.0 | 2012.4 | 511.0 |
| 57.5° | 5324.1 | 7550.2 | 10088.1 | *11157.5* | 11157.5 | 9541.6 | 7222.8 | 4949.5 | 1743.2 | 464.7 |
| 58° | *5292.3* | *7582.9* | *10103.6* | *11177.5* | *11169.3* | *9558.9* | *7272.8* | *4914.0* | *1684.1* | *447.4* |
| 60° | 5248.7 | 7683.9 | 9989.0 | *10882.0* | 10858.3 | 9437.0 | 7363.8 | 4882.2 | 1397.6 | 351.0 |
| 62.5° | 5185.0 | 7456.5 | 9154.2 | *10012.7* | 9951.7 | 8583.2 | 7102.8 | 4695.8 | 1043.0 | 261.0 |
| 65° | 4858.6 | 6617.2 | 7631.1 | *8225.8* | 8206.7 | 7061.0 | 6113.4 | 4206.6 | 751.1 | 193.7 |
| 67.5° | 4095.6 | 5180.5 | 6164.4 | *6880.9* | 6885.5 | 5764.3 | 4781.3 | 3361.8 | 511.0 | 154.6 |
| 70° | 2880.8 | 3821.0 | 5240.5 | *6038.0* | 6074.3 | 4834.9 | 3541.8 | 2240.6 | 337.4 | 132.8 |
| 72.5° | 1720.5 | 2886.2 | 4357.5 | *4963.1* | 4944.0 | 4012.0 | 2628.0 | 1335.8 | 205.5 | 118.2 |
| 75° | 833.9 | 1725.0 | 2202.4 | *2554.3* | 2539.8 | 2006.9 | 1400.4 | 654.7 | 150.0 | 106.4 |
| 77.5° | 226.4 | 530.1 | 853.0 | *1109.4* | 1139.4 | 803.8 | 459.2 | 175.5 | 93.7 | 80.0 |
| 80° | 76.4 | 163.7 | 278.3 | *378.3* | 388.3 | 347.4 | 172.8 | 61.8 | 40.9 | 40.0 |
| 82.5° | 29.1 | 40.0 | 50.9 | *45.5* | 45.5 | 47.3 | 37.3 | 26.4 | 19.1 | 16.4 |
| 85° | 0.0 | 0.0 | 0.9 | *1.8* | 1.8 | 2.7 | 2.7 | 2.7 | 1.8 | 1.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-2

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-722-U-5WQ

Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

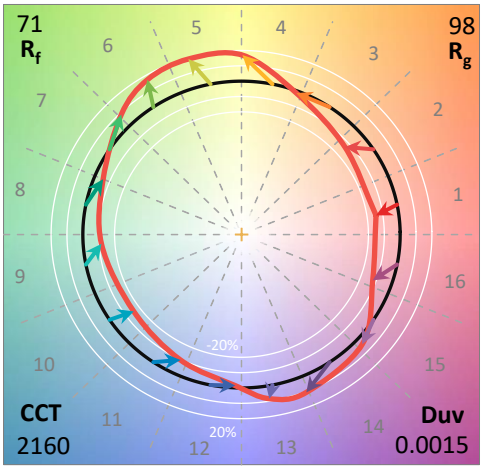
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2407-184-2 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 - 76IN SPHERE |
| Measurement Geometry: | 4π |
| Issue Date: | 10/15/2024 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGraw-Edison |
| Catalog Number: | **GSS-SB1A-722-U-5WQ** |
| Description: | GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 2200K CCT 26 LEDS |

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 2160 |
| CIE u': | 0.2927 |
| CIE v': | 0.5388 |
| Duv: | 0.0015 |
| CIE x: | 0.5130 |
| CIE y: | 0.4197 |
| CIE z: | 0.0674 |
| Peak Wavelength (nm): | 609 |
| Dominant Wavelength (nm): | 587 |
| Purity: | 79.96089 |
| Rf: | 70.6 |
| Rg: | 97.6 |

| | |
|---|---|
| CRI (Ra): | 71.9 |
| R1: | 68.7 |
| R2: | 82.6 |
| R3: | 95.5 |
| R4: | 66.4 |
| R5: | 65.4 |
| R6: | 75.9 |
| R7: | 77.2 |
| R8: | 43.5 |
| R9: | -17.8 |
| R10: | 60.5 |
| R11: | 60.2 |
| R12: | 48.2 |
| R13: | 70.7 |
| R14: | 96.8 |
| R15: | 61.8 |




## Test Conditions

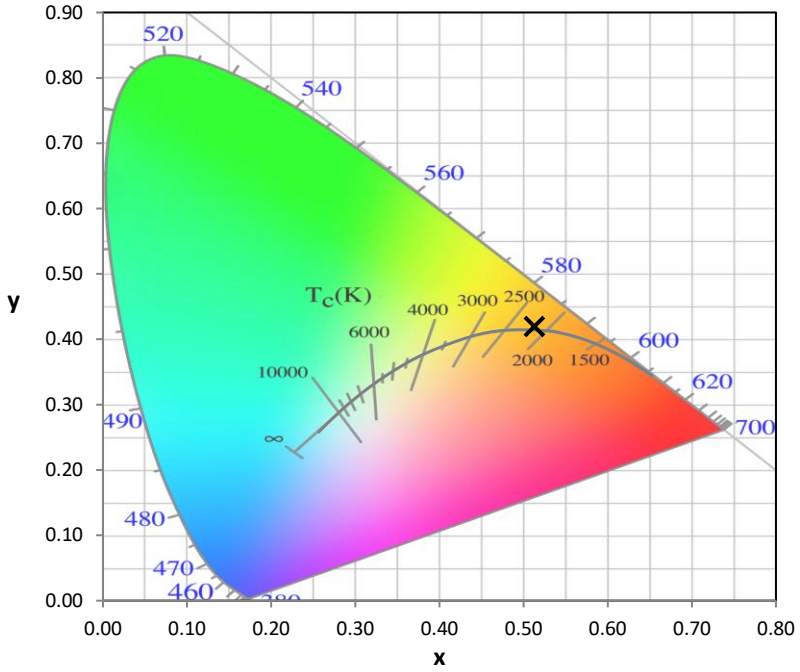
| | |
|---|---|
| Stabilization Time: | 21M |
| Operation Time: | 1H 21M |
| Sphere Temperature (°C): | 25.2 |

REPORT NUMBER: SP1-2407-184-2

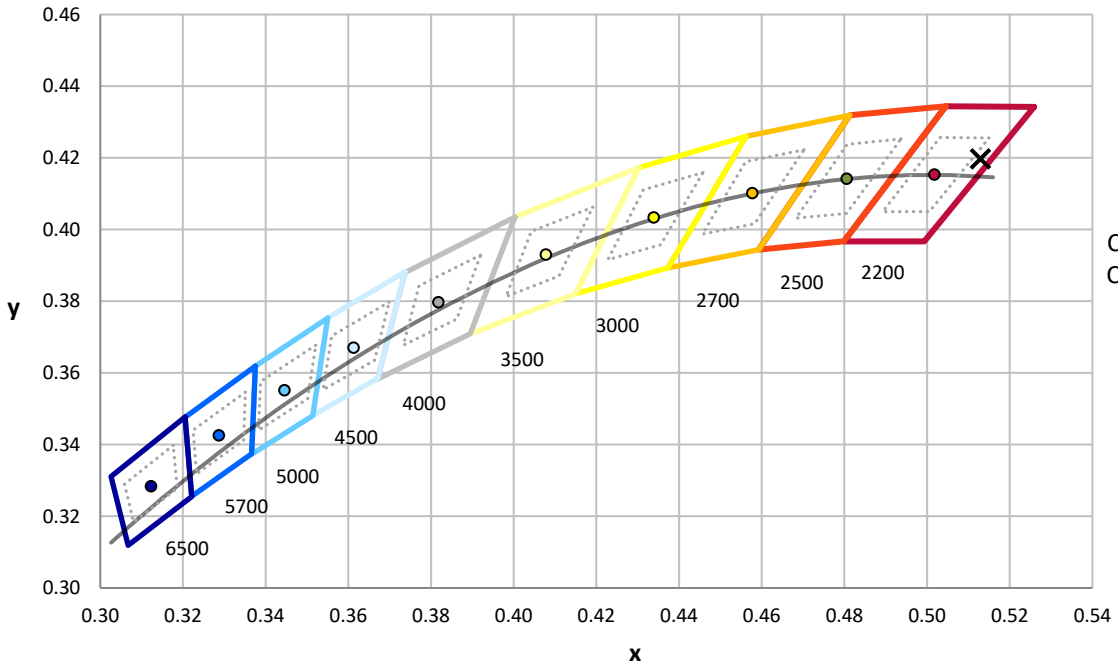
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC 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: SP1-2407-184-2

## CIE 1931 Chromaticity Diagram




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

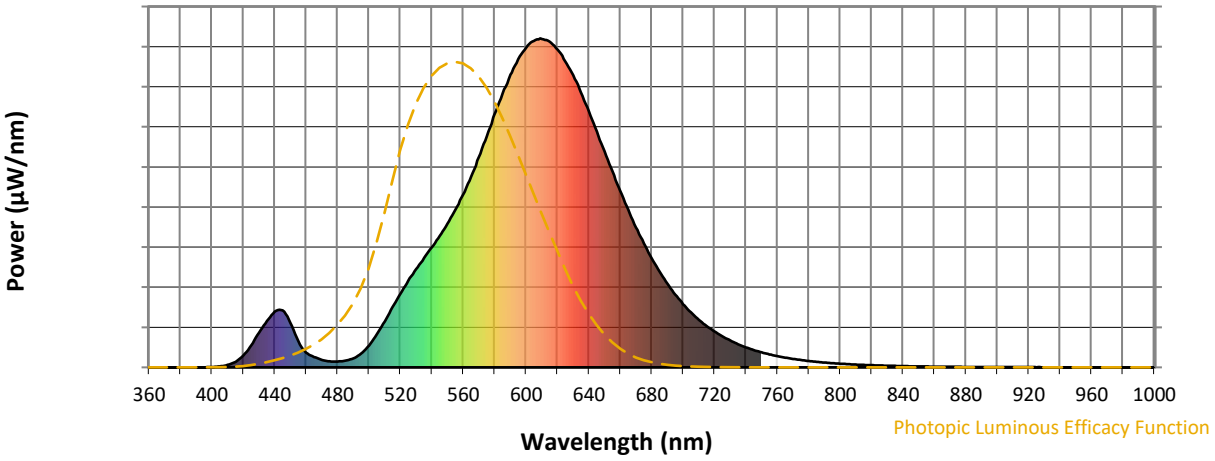



CCT = 2160K
CIE x = 0.5130
CIE y = 0.4197
Duv = 0.0015

Point lies inside the ANSI 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

## Photopic Flux vs. Wavelength

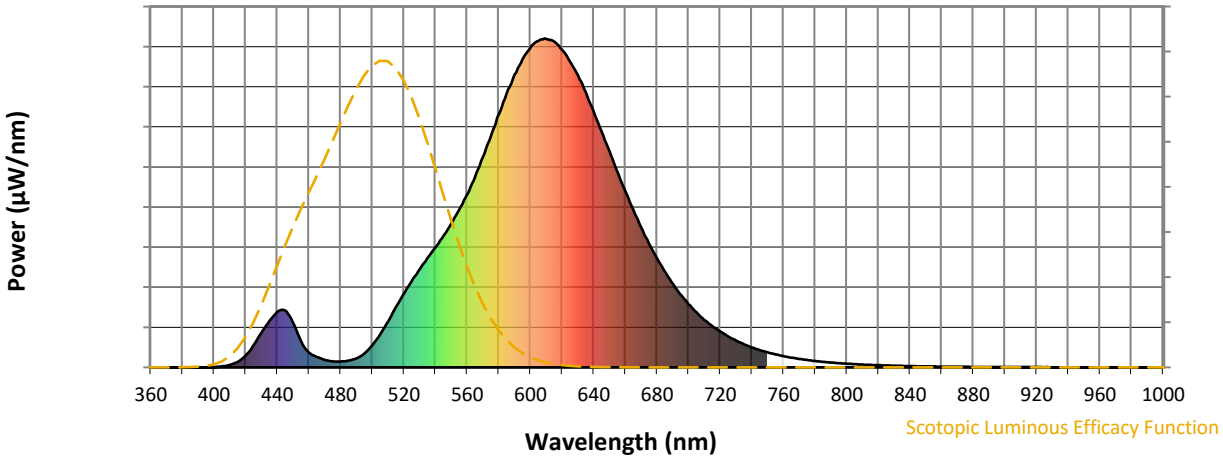



## Photopic Lumens: NR

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 27 | NR | 620 | 966 | NR | 750 | 46 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 42 | NR | 625 | 930 | NR | 755 | 39 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 67 | NR | 630 | 888 | NR | 760 | 34 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 101 | NR | 635 | 835 | NR | 765 | 30 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 139 | NR | 640 | 778 | NR | 770 | 26 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 183 | NR | 645 | 717 | NR | 775 | 22 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 224 | NR | 650 | 656 | NR | 780 | 19 | NR | 910 | 1 | NR |
| 395 | 0 | NR | 525 | 262 | NR | 655 | 595 | NR | 785 | 17 | NR | 915 | 1 | NR |
| 400 | 1 | NR | 530 | 299 | NR | 660 | 536 | NR | 790 | 15 | NR | 920 | 1 | NR |
| 405 | 3 | NR | 535 | 332 | NR | 665 | 480 | NR | 795 | 13 | NR | 925 | 1 | NR |
| 410 | 7 | NR | 540 | 365 | NR | 670 | 425 | NR | 800 | 11 | NR | 930 | 1 | NR |
| 415 | 17 | NR | 545 | 400 | NR | 675 | 376 | NR | 805 | 10 | NR | 935 | 0 | NR |
| 420 | 36 | NR | 550 | 437 | NR | 680 | 332 | NR | 810 | 8 | NR | 940 | 0 | NR |
| 425 | 67 | NR | 555 | 479 | NR | 685 | 291 | NR | 815 | 8 | NR | 945 | 0 | NR |
| 430 | 105 | NR | 560 | 525 | NR | 690 | 255 | NR | 820 | 7 | NR | 950 | 0 | NR |
| 435 | 141 | NR | 565 | 579 | NR | 695 | 221 | NR | 825 | 6 | NR | 955 | 0 | NR |
| 440 | 169 | NR | 570 | 639 | NR | 700 | 192 | NR | 830 | 5 | NR | 960 | 0 | NR |
| 445 | 173 | NR | 575 | 703 | NR | 705 | 167 | NR | 835 | 4 | NR | 965 | 0 | NR |
| 450 | 136 | NR | 580 | 769 | NR | 710 | 144 | NR | 840 | 4 | NR | 970 | 0 | NR |
| 455 | 80 | NR | 585 | 832 | NR | 715 | 125 | NR | 845 | 3 | NR | 975 | 0 | NR |
| 460 | 45 | NR | 590 | 890 | NR | 720 | 109 | NR | 850 | 3 | NR | 980 | 0 | NR |
| 465 | 32 | NR | 595 | 937 | NR | 725 | 94 | NR | 855 | 3 | NR | 985 | 0 | NR |
| 470 | 23 | NR | 600 | 972 | NR | 730 | 81 | NR | 860 | 2 | NR | 990 | 0 | NR |
| 475 | 18 | NR | 605 | 992 | NR | 735 | 70 | NR | 865 | 2 | NR | 995 | 0 | NR |
| 480 | 18 | NR | 610 | 998 | NR | 740 | 61 | NR | 870 | 2 | NR | 1000 | 0 | NR |
| 485 | 20 | NR | 615 | 990 | NR | 745 | 53 | NR | 875 | 2 | NR | | | |

REPORT NUMBER: SP1-2407-184-2

## Scotopic Flux vs. Wavelength

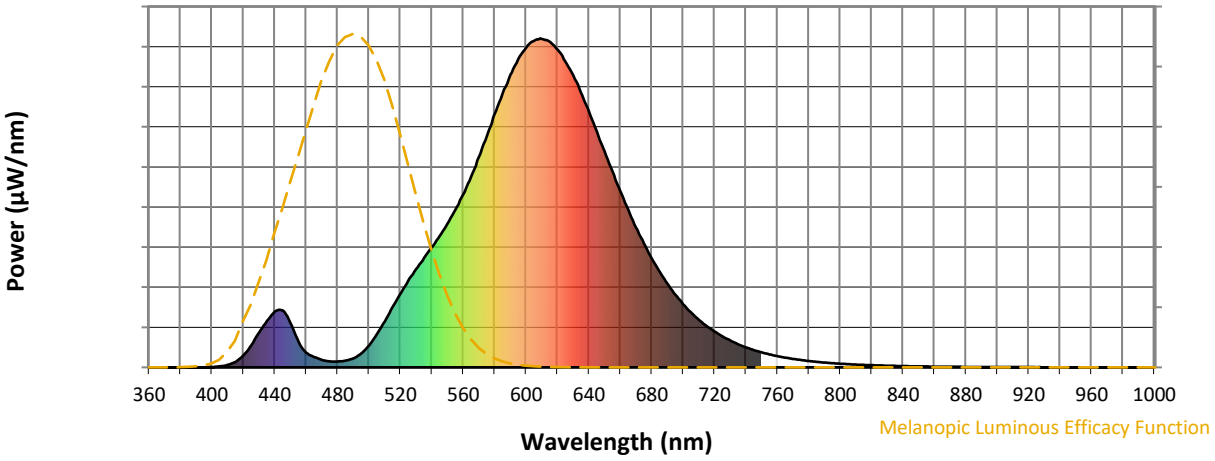



**Scotopic Lumens: NR** **S/P: 0.8**

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 27 | NR | 620 | 966 | NR | 750 | 46 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 42 | NR | 625 | 930 | NR | 755 | 39 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 67 | NR | 630 | 888 | NR | 760 | 34 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 101 | NR | 635 | 835 | NR | 765 | 30 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 139 | NR | 640 | 778 | NR | 770 | 26 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 183 | NR | 645 | 717 | NR | 775 | 22 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 224 | NR | 650 | 656 | NR | 780 | 19 | NR | 910 | 1 | NR |
| 395 | 0 | NR | 525 | 262 | NR | 655 | 595 | NR | 785 | 17 | NR | 915 | 1 | NR |
| 400 | 1 | NR | 530 | 299 | NR | 660 | 536 | NR | 790 | 15 | NR | 920 | 1 | NR |
| 405 | 3 | NR | 535 | 332 | NR | 665 | 480 | NR | 795 | 13 | NR | 925 | 1 | NR |
| 410 | 7 | NR | 540 | 365 | NR | 670 | 425 | NR | 800 | 11 | NR | 930 | 1 | NR |
| 415 | 17 | NR | 545 | 400 | NR | 675 | 376 | NR | 805 | 10 | NR | 935 | 0 | NR |
| 420 | 36 | NR | 550 | 437 | NR | 680 | 332 | NR | 810 | 8 | NR | 940 | 0 | NR |
| 425 | 67 | NR | 555 | 479 | NR | 685 | 291 | NR | 815 | 8 | NR | 945 | 0 | NR |
| 430 | 105 | NR | 560 | 525 | NR | 690 | 255 | NR | 820 | 7 | NR | 950 | 0 | NR |
| 435 | 141 | NR | 565 | 579 | NR | 695 | 221 | NR | 825 | 6 | NR | 955 | 0 | NR |
| 440 | 169 | NR | 570 | 639 | NR | 700 | 192 | NR | 830 | 5 | NR | 960 | 0 | NR |
| 445 | 173 | NR | 575 | 703 | NR | 705 | 167 | NR | 835 | 4 | NR | 965 | 0 | NR |
| 450 | 136 | NR | 580 | 769 | NR | 710 | 144 | NR | 840 | 4 | NR | 970 | 0 | NR |
| 455 | 80 | NR | 585 | 832 | NR | 715 | 125 | NR | 845 | 3 | NR | 975 | 0 | NR |
| 460 | 45 | NR | 590 | 890 | NR | 720 | 109 | NR | 850 | 3 | NR | 980 | 0 | NR |
| 465 | 32 | NR | 595 | 937 | NR | 725 | 94 | NR | 855 | 3 | NR | 985 | 0 | NR |
| 470 | 23 | NR | 600 | 972 | NR | 730 | 81 | NR | 860 | 2 | NR | 990 | 0 | NR |
| 475 | 18 | NR | 605 | 992 | NR | 735 | 70 | NR | 865 | 2 | NR | 995 | 0 | NR |
| 480 | 18 | NR | 610 | 998 | NR | 740 | 61 | NR | 870 | 2 | NR | 1000 | 0 | NR |
| 485 | 20 | NR | 615 | 990 | NR | 745 | 53 | NR | 875 | 2 | NR | | | |

REPORT NUMBER: SP1-2407-184-2

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 1.21**

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 27 | NR | 620 | 966 | NR | 750 | 46 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 42 | NR | 625 | 930 | NR | 755 | 39 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 67 | NR | 630 | 888 | NR | 760 | 34 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 101 | NR | 635 | 835 | NR | 765 | 30 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 139 | NR | 640 | 778 | NR | 770 | 26 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 183 | NR | 645 | 717 | NR | 775 | 22 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 224 | NR | 650 | 656 | NR | 780 | 19 | NR | 910 | 1 | NR |
| 395 | 0 | NR | 525 | 262 | NR | 655 | 595 | NR | 785 | 17 | NR | 915 | 1 | NR |
| 400 | 1 | NR | 530 | 299 | NR | 660 | 536 | NR | 790 | 15 | NR | 920 | 1 | NR |
| 405 | 3 | NR | 535 | 332 | NR | 665 | 480 | NR | 795 | 13 | NR | 925 | 1 | NR |
| 410 | 7 | NR | 540 | 365 | NR | 670 | 425 | NR | 800 | 11 | NR | 930 | 1 | NR |
| 415 | 17 | NR | 545 | 400 | NR | 675 | 376 | NR | 805 | 10 | NR | 935 | 0 | NR |
| 420 | 36 | NR | 550 | 437 | NR | 680 | 332 | NR | 810 | 8 | NR | 940 | 0 | NR |
| 425 | 67 | NR | 555 | 479 | NR | 685 | 291 | NR | 815 | 8 | NR | 945 | 0 | NR |
| 430 | 105 | NR | 560 | 525 | NR | 690 | 255 | NR | 820 | 7 | NR | 950 | 0 | NR |
| 435 | 141 | NR | 565 | 579 | NR | 695 | 221 | NR | 825 | 6 | NR | 955 | 0 | NR |
| 440 | 169 | NR | 570 | 639 | NR | 700 | 192 | NR | 830 | 5 | NR | 960 | 0 | NR |
| 445 | 173 | NR | 575 | 703 | NR | 705 | 167 | NR | 835 | 4 | NR | 965 | 0 | NR |
| 450 | 136 | NR | 580 | 769 | NR | 710 | 144 | NR | 840 | 4 | NR | 970 | 0 | NR |
| 455 | 80 | NR | 585 | 832 | NR | 715 | 125 | NR | 845 | 3 | NR | 975 | 0 | NR |
| 460 | 45 | NR | 590 | 890 | NR | 720 | 109 | NR | 850 | 3 | NR | 980 | 0 | NR |
| 465 | 32 | NR | 595 | 937 | NR | 725 | 94 | NR | 855 | 3 | NR | 985 | 0 | NR |
| 470 | 23 | NR | 600 | 972 | NR | 730 | 81 | NR | 860 | 2 | NR | 990 | 0 | NR |
| 475 | 18 | NR | 605 | 992 | NR | 735 | 70 | NR | 865 | 2 | NR | 995 | 0 | NR |
| 480 | 18 | NR | 610 | 998 | NR | 740 | 61 | NR | 870 | 2 | NR | 1000 | 0 | NR |
| 485 | 20 | NR | 615 | 990 | NR | 745 | 53 | NR | 875 | 2 | NR | | | |

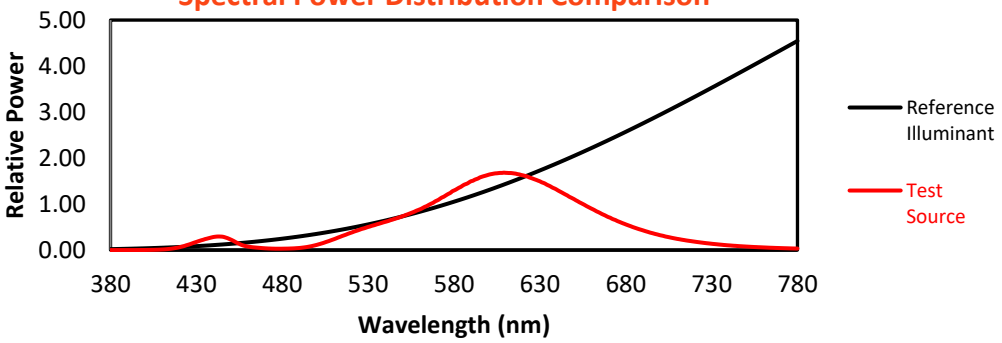
REPORT NUMBER: SP1-2407-184-2

# TM-30-18

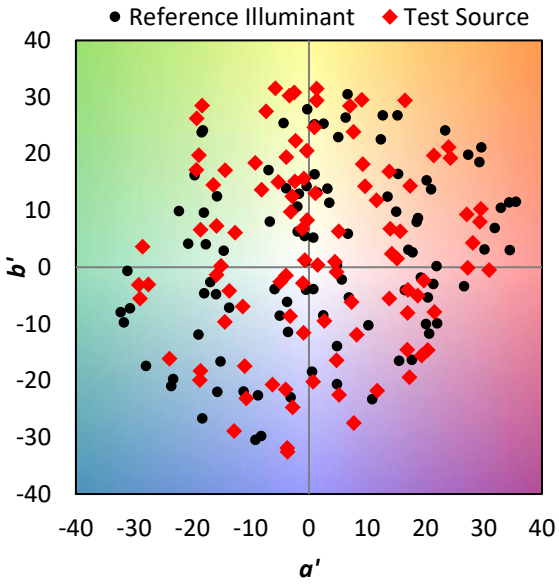
## Summary

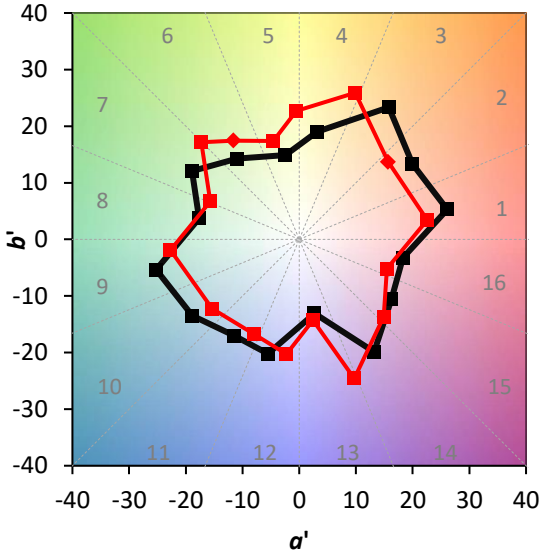
$R_f$ = 70.6
$R_g$ = 97.6
CIE $R_a$ = 71.9
$R_9$ = -17.8

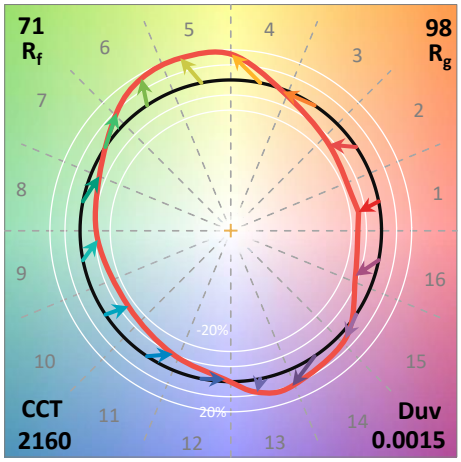
## Spectral Power Distribution Comparison

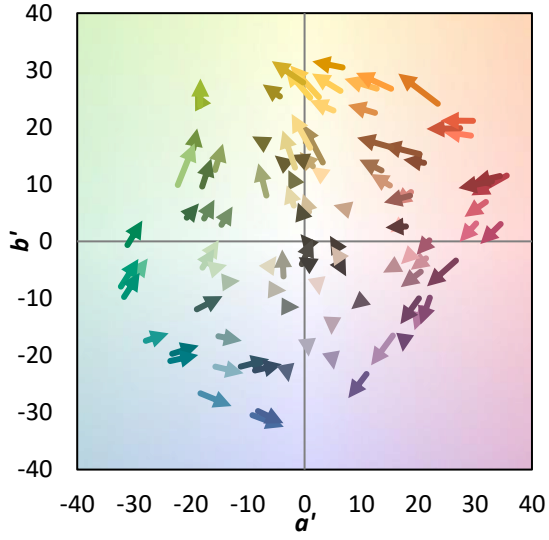



## Color Vector Graphics



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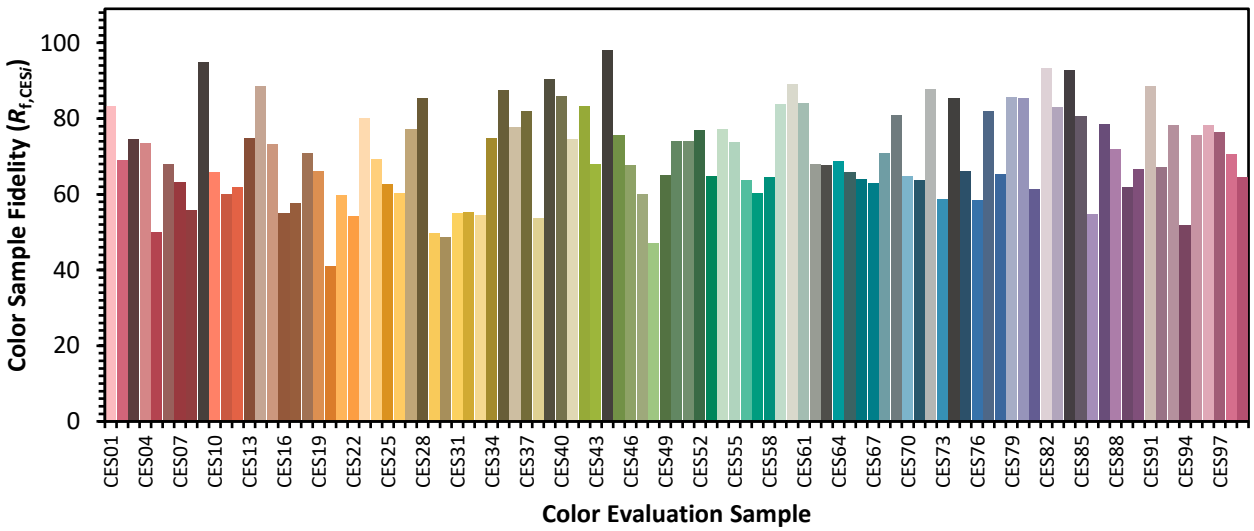
## Individual Sample Fidelity Index ($R_{f,i}$)

| | | | |
|---|---|---|---|
| CES01 = 87 | CES26 = 60 | CES51 = 74 | CES76 = 58 |
| CES02 = 65 | CES27 = 77 | CES52 = 77 | CES77 = 82 |
| CES03 = 32 | CES28 = 85 | CES53 = 65 | CES78 = 65 |
| CES04 = 72 | CES29 = 50 | CES54 = 77 | CES79 = 86 |
| CES05 = 52 | CES30 = 49 | CES55 = 74 | CES80 = 85 |
| CES06 = 53 | CES31 = 55 | CES56 = 64 | CES81 = 61 |
| CES07 = 44 | CES32 = 55 | CES57 = 60 | CES82 = 93 |
| CES08 = 43 | CES33 = 55 | CES58 = 64 | CES83 = 83 |
| CES09 = 29 | CES34 = 75 | CES59 = 84 | CES84 = 93 |
| CES10 = 79 | CES35 = 88 | CES60 = 89 | CES85 = 81 |
| CES11 = 62 | CES36 = 78 | CES61 = 84 | CES86 = 55 |
| CES12 = 68 | CES37 = 82 | CES62 = 68 | CES87 = 79 |
| CES13 = 45 | CES38 = 54 | CES63 = 68 | CES88 = 72 |
| CES14 = 75 | CES39 = 90 | CES64 = 69 | CES89 = 62 |
| CES15 = 72 | CES40 = 86 | CES65 = 66 | CES90 = 67 |
| CES16 = 49 | CES41 = 75 | CES66 = 64 | CES91 = 89 |
| CES17 = 51 | CES42 = 83 | CES67 = 63 | CES92 = 67 |
| CES18 = 57 | CES43 = 68 | CES68 = 71 | CES93 = 78 |
| CES19 = 74 | CES44 = 98 | CES69 = 81 | CES94 = 52 |
| CES20 = 68 | CES45 = 76 | CES70 = 65 | CES95 = 76 |
| CES21 = 89 | CES46 = 68 | CES71 = 64 | CES96 = 78 |
| CES22 = 81 | CES47 = 60 | CES72 = 88 | CES97 = 76 |
| CES23 = 92 | CES48 = 47 | CES73 = 59 | CES98 = 71 |
| CES24 = 92 | CES49 = 65 | CES74 = 85 | CES99 = 65 |
| CES25 = 74 | CES50 = 74 | CES75 = 66 | |



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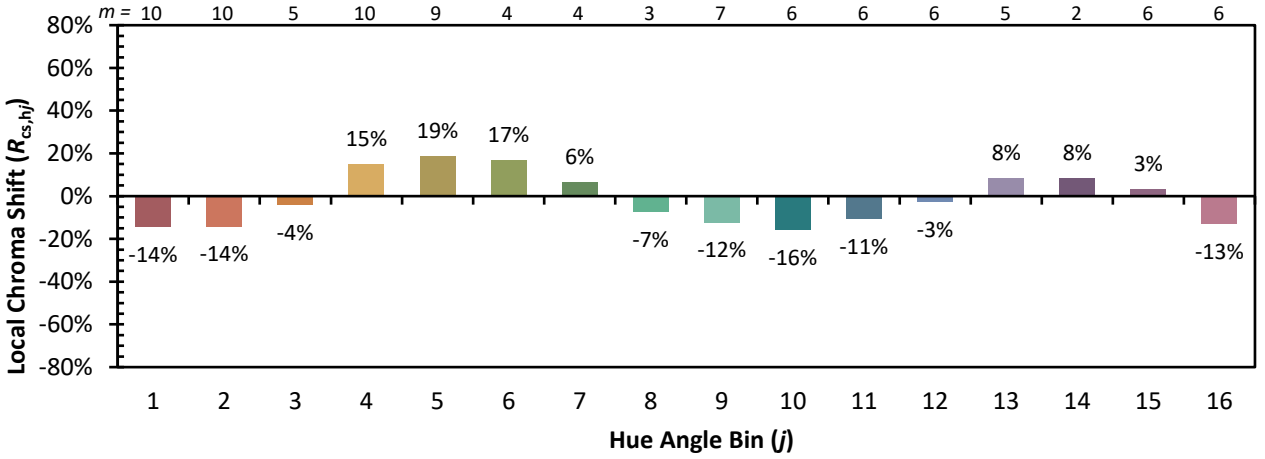
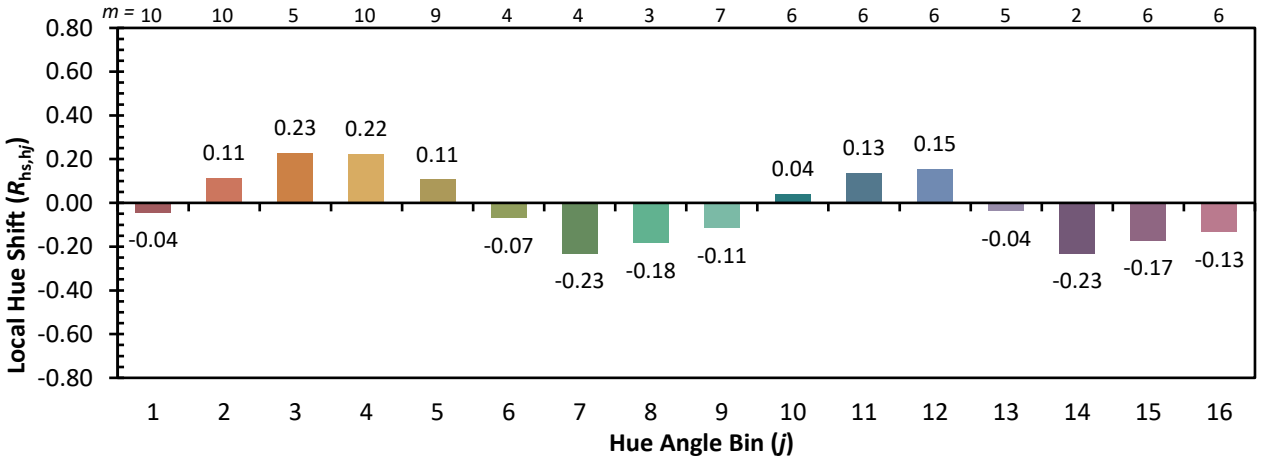
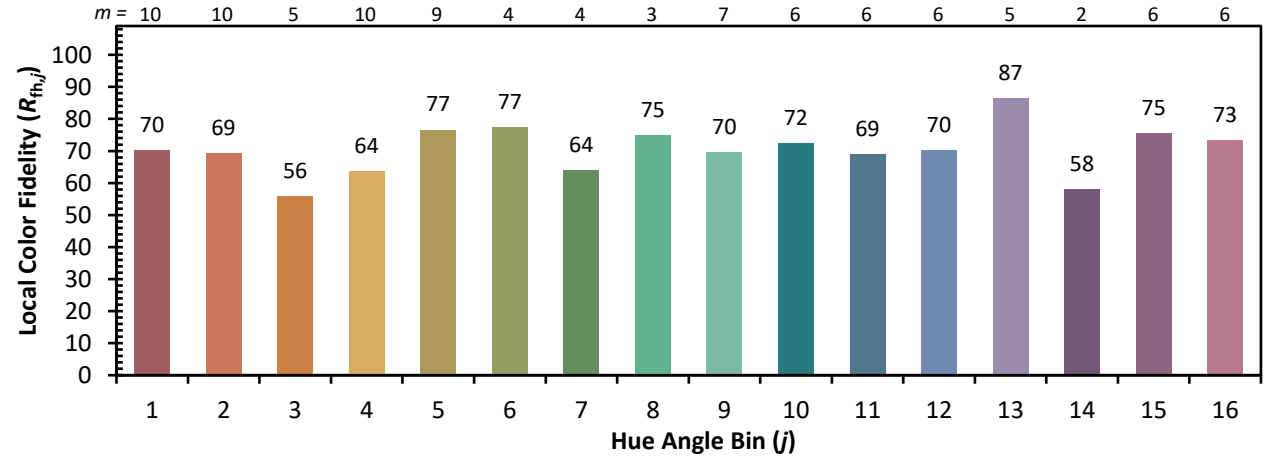
## Color Rendition by Hue-Angle Bin



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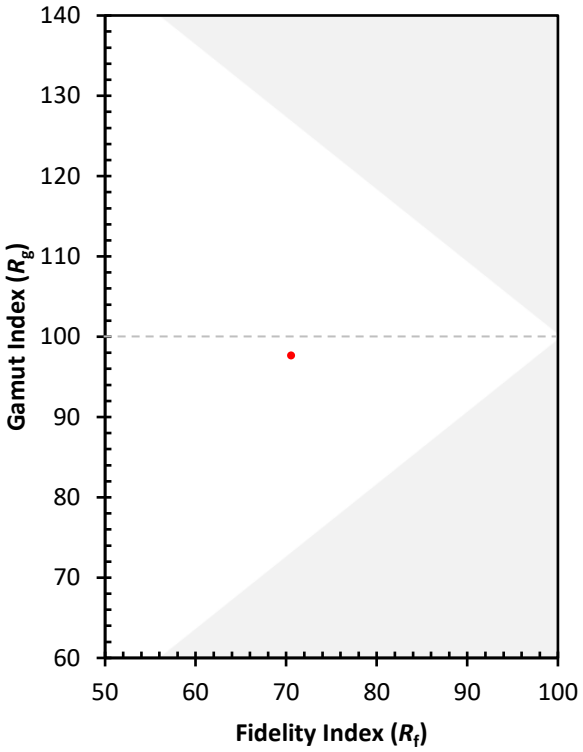
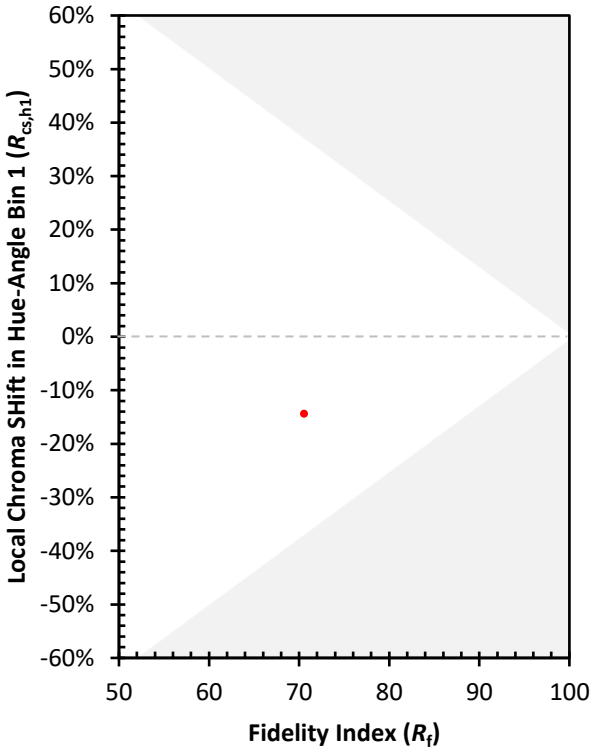
## Measure Comparisons




(END OF REPORT)