

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: P1066801

Luminaire Tested: **NVN-SA4A-750-U-LBC**

Issue Date: 08/07/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1066801  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 08/07/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SA4A-750-U-LBC  
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 4xLight Square PACKAGE  
70CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (56) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12226.4 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G2

Input Watts (W): 107.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.97  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



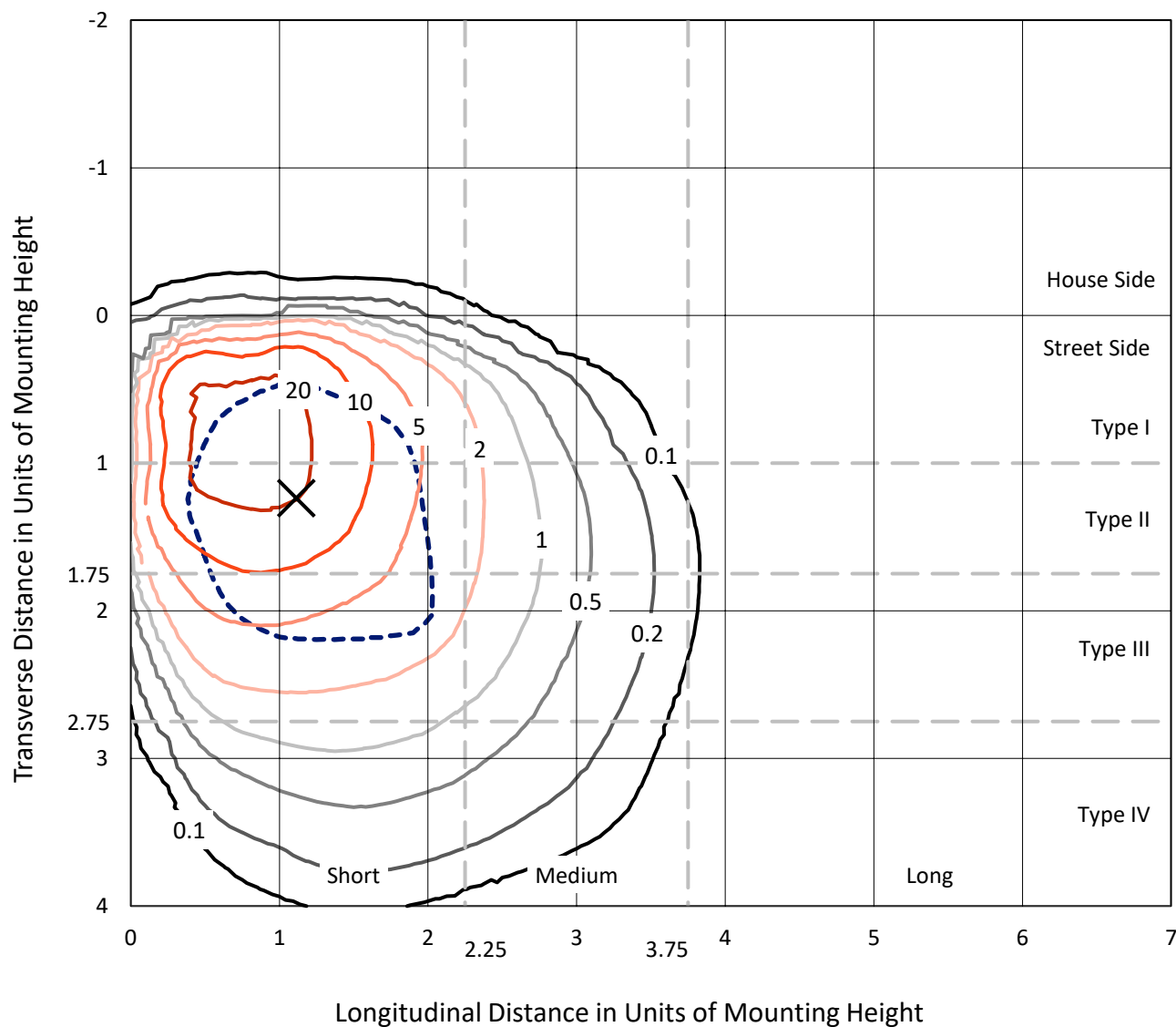
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

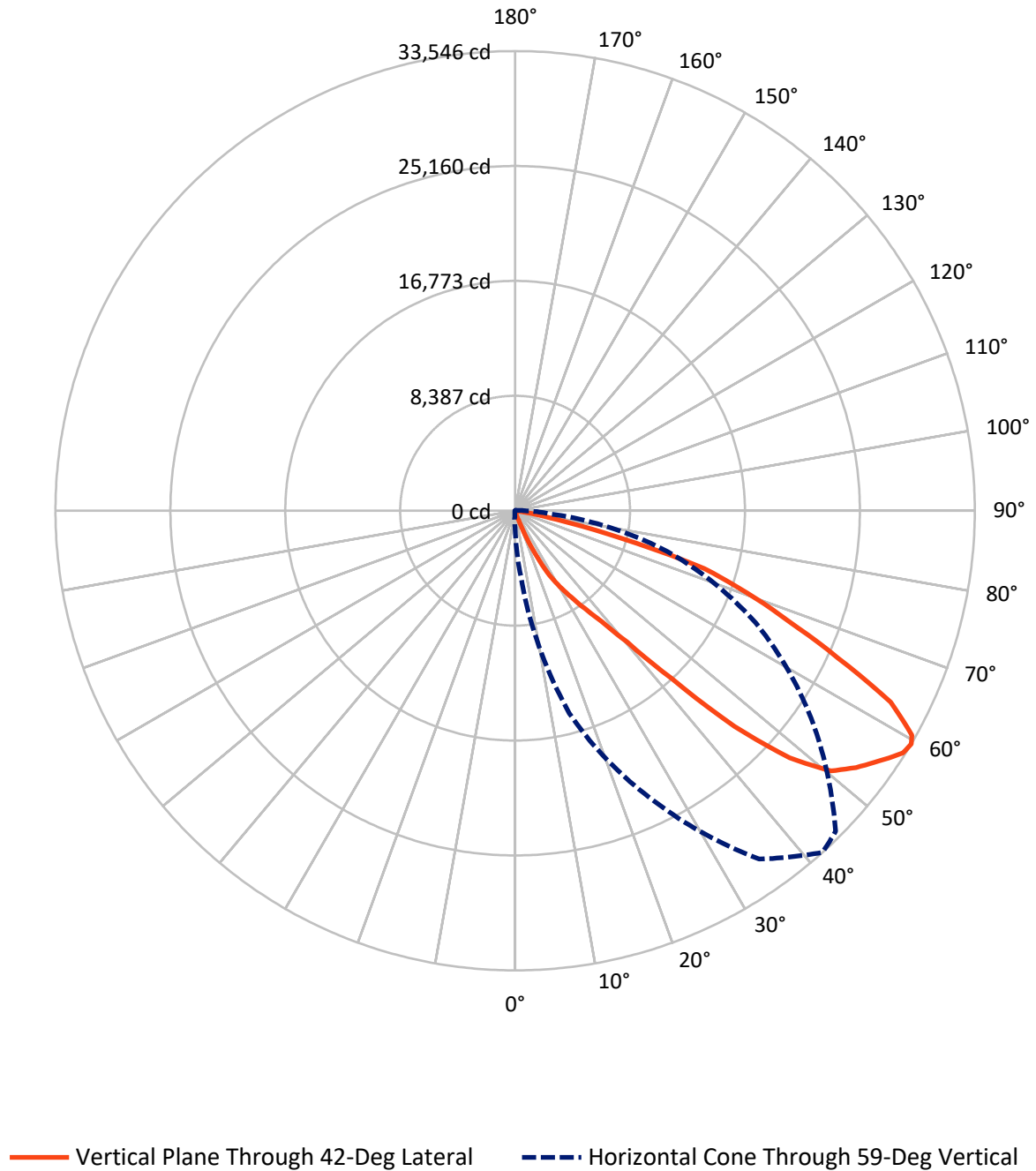


Based on 15 foot mounting height. Maximum calculated value = 36.3 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 58.9     | 0.0    | 58.9    |
|                    | % Fixture | 0.5      | 0.0    | 0.5     |
| <b>Street Side</b> | Lumens    | 12167.5  | 0.0    | 12167.5 |
|                    | % Fixture | 99.5     | 0.0    | 99.5    |
| <b>Total</b>       | Lumens    | 12226.4  | 0.0    | 12226.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 3.6     | 0.0       |
| 10°-20°   | 17.8    | 0.1       |
| 20°-30°   | 228.1   | 1.9       |
| 30°-40°   | 768.9   | 6.3       |
| 40°-50°   | 2322.4  | 19.0      |
| 50°-60°   | 4099.5  | 33.5      |
| 60°-70°   | 3609.7  | 29.5      |
| 70°-80°   | 1149.0  | 9.4       |
| 80°-90°   | 27.5    | 0.2       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 12226.4 | 100.0     |
| 0°-180°   | 12226.4 | 100.0     |



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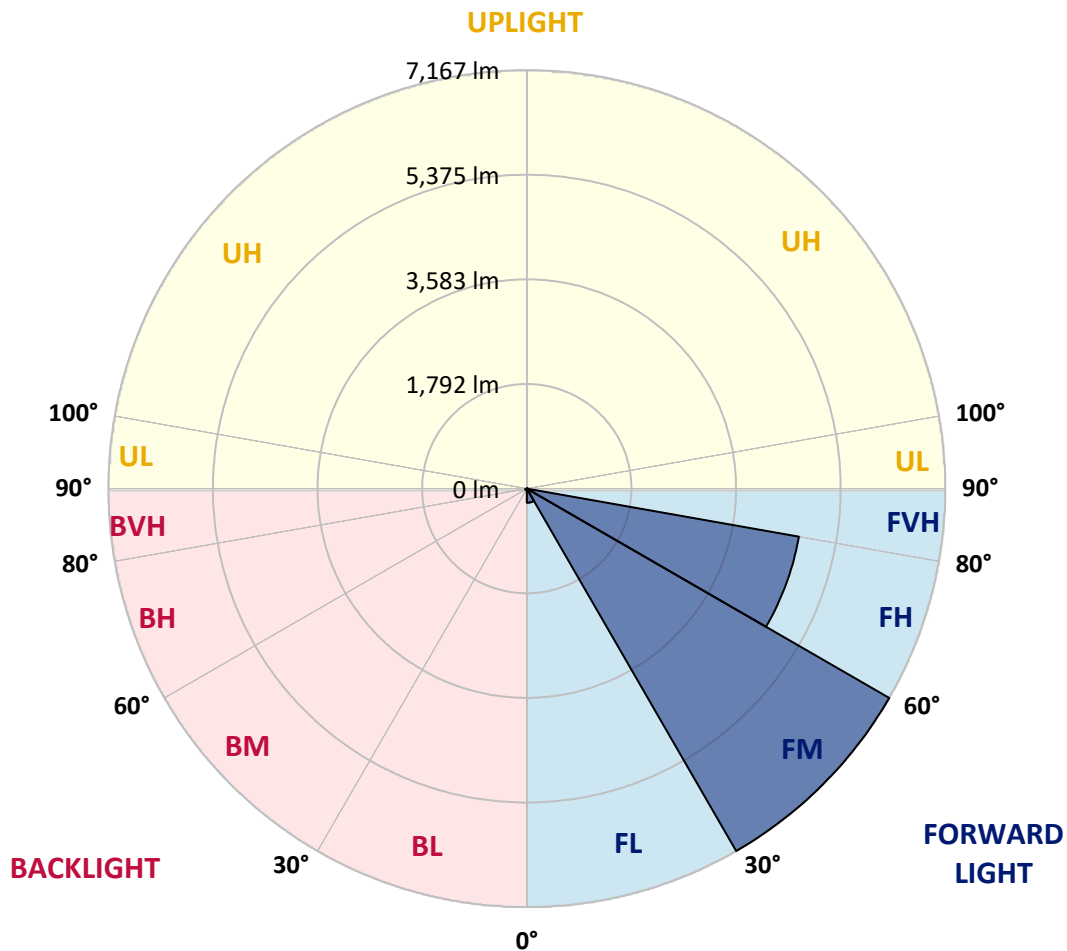
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 242.9  | 2.0       |                         |      |         |
| FM   | (30°-60°)   | 7166.7 | 58.6      |                         |      |         |
| FH   | (60°-80°)   | 4731.8 | 38.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 26.2   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 6.6    | 0.1       | B0/110                  |      |         |
| BM   | (30°-60°)   | 24.1   | 0.2       | B0/220                  |      |         |
| BH   | (60°-80°)   | 26.9   | 0.2       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 1.3    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°     | 25°     | 35°     | 42°     | 45°     | 55°     | 65°     | 75°     | 85°    |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 34.5   | 34.5   | 34.5    | 34.5    | 34.5    | 34.5    | 34.5    | 34.5    | 34.5    | 34.5    | 34.5   |
| 2.5°  | 53.7   | 53.7   | 49.8    | 46.0    | 42.2    | 38.3    | 38.3    | 38.3    | 34.5    | 34.5    | 30.7   |
| 5°    | 61.3   | 61.3   | 57.5    | 53.7    | 53.7    | 49.8    | 49.8    | 46.0    | 42.2    | 42.2    | 38.3   |
| 7.5°  | 65.2   | 65.2   | 65.2    | 65.2    | 61.3    | 61.3    | 61.3    | 57.5    | 53.7    | 49.8    | 46.0   |
| 10°   | 69.0   | 72.8   | 76.7    | 76.7    | 76.7    | 76.7    | 76.7    | 72.8    | 65.2    | 61.3    | 53.7   |
| 12.5° | 76.7   | 80.5   | 88.2    | 95.8    | 95.8    | 99.7    | 95.8    | 92.0    | 84.3    | 72.8    | 61.3   |
| 15°   | 84.3   | 92.0   | 103.5   | 118.8   | 134.2   | 138.0   | 138.0   | 126.5   | 111.2   | 88.2    | 72.8   |
| 17.5° | 95.8   | 107.3  | 138.0   | 187.8   | 241.5   | 283.7   | 283.7   | 253.0   | 176.3   | 115.0   | 84.3   |
| 20°   | 103.5  | 126.5  | 222.3   | 452.3   | 690.0   | 866.3   | 831.8   | 736.0   | 394.8   | 180.2   | 92.0   |
| 22.5° | 115.0  | 161.0  | 471.5   | 1188.4  | 1840.0  | 2162.0  | 2085.4  | 1583.2  | 885.5   | 322.0   | 111.2  |
| 25°   | 130.3  | 233.8  | 935.3   | 2227.2  | 3419.4  | 3768.2  | 3718.4  | 2955.6  | 1613.9  | 540.5   | 141.8  |
| 27.5° | 161.0  | 345.0  | 1498.9  | 3377.2  | 5044.8  | 5343.8  | 5324.6  | 4327.9  | 2579.9  | 870.2   | 184.0  |
| 30°   | 203.2  | 502.2  | 2223.4  | 4588.6  | 6121.9  | 6424.8  | 6328.9  | 5332.3  | 3480.7  | 1330.2  | 237.7  |
| 32.5° | 253.0  | 701.5  | 2878.9  | 5481.8  | 7114.8  | 7513.5  | 7398.5  | 6206.3  | 4205.2  | 1721.2  | 352.7  |
| 35°   | 329.7  | 897.0  | 3526.7  | 6271.4  | 8261.0  | 8767.0  | 8575.3  | 7107.1  | 4830.1  | 2162.0  | 425.5  |
| 37.5° | 368.0  | 1012.0 | 4120.9  | 7130.1  | 9549.0  | 10239.0 | 10093.3 | 8245.6  | 5466.4  | 2725.5  | 521.3  |
| 40°   | 371.8  | 1150.0 | 4738.1  | 8249.5  | 11369.9 | 12600.4 | 12339.7 | 10200.7 | 6650.9  | 3450.1  | 670.8  |
| 42.5° | 383.3  | 1357.0 | 5539.3  | 10158.5 | 14946.4 | 16713.6 | 16418.5 | 13796.4 | 9338.2  | 4902.9  | 950.7  |
| 45°   | 437.0  | 1748.0 | 7172.3  | 13727.4 | 19857.0 | 22448.4 | 22107.2 | 18806.7 | 13091.1 | 7636.1  | 1621.5 |
| 47.5° | 624.8  | 2629.7 | 10035.8 | 17580.0 | 24878.8 | 26945.0 | 26860.6 | 22755.1 | 16491.3 | 10438.3 | 2748.5 |
| 50°   | 1004.4 | 4036.6 | 13294.2 | 20819.2 | 28075.8 | 29850.7 | 29639.9 | 24403.4 | 18431.0 | 12351.2 | 3522.9 |
| 52.5° | 1341.7 | 5382.1 | 15341.3 | 22011.4 | 29030.3 | 31146.4 | 30889.5 | 25005.3 | 18940.8 | 12914.7 | 3737.6 |
| 55°   | 1426.0 | 5868.9 | 15950.8 | 22379.4 | 29662.9 | 32242.7 | 31870.9 | 25407.8 | 19006.0 | 12512.2 | 3381.1 |
| 57.5° | 1383.9 | 5408.9 | 15555.9 | 22739.7 | 30544.5 | 33369.8 | 32875.2 | 26193.6 | 19224.5 | 11829.9 | 2813.7 |
| 59°   | 1311.0 | 4841.6 | 15310.6 | 23027.2 | 31031.4 | 33546.1 | 33082.2 | 26366.1 | 19370.2 | 11519.4 | 2468.7 |
| 60°   | 1226.7 | 4458.2 | 15118.9 | 23215.1 | 31000.7 | 33270.1 | 32790.9 | 26285.6 | 19427.7 | 11251.0 | 2303.9 |
| 62.5° | 946.8  | 3557.4 | 14842.9 | 23080.9 | 29064.8 | 30751.5 | 30479.4 | 24315.3 | 18584.3 | 10392.3 | 1817.0 |
| 65°   | 736.0  | 2721.7 | 13830.9 | 20585.4 | 24733.1 | 25867.8 | 25783.5 | 20589.2 | 15640.3 | 8958.7  | 1311.0 |
| 67.5° | 582.7  | 1985.7 | 11695.7 | 16671.5 | 19899.2 | 21513.0 | 21451.7 | 16713.6 | 11872.0 | 6846.5  | 943.0  |
| 70°   | 475.3  | 1414.5 | 8019.5  | 12569.7 | 15916.3 | 17948.0 | 17859.8 | 13451.4 | 8797.7  | 4343.2  | 686.2  |
| 72.5° | 402.5  | 904.7  | 4864.6  | 9476.2  | 13282.7 | 14444.3 | 14187.4 | 10852.4 | 6397.9  | 2365.2  | 544.3  |
| 75°   | 341.2  | 555.8  | 2411.2  | 5907.3  | 7912.1  | 7904.5  | 7647.6  | 5746.3  | 3434.7  | 1157.7  | 433.2  |
| 77.5° | 276.0  | 391.0  | 946.8   | 1621.5  | 2495.5  | 3089.7  | 3039.9  | 2035.5  | 1027.4  | 337.3   | 268.3  |
| 80°   | 180.2  | 184.0  | 253.0   | 444.7   | 686.2   | 759.0   | 862.5   | 621.0   | 299.0   | 161.0   | 111.2  |
| 82.5° | 80.5   | 88.2   | 115.0   | 145.7   | 145.7   | 134.2   | 118.8   | 88.2    | 65.2    | 53.7    | 26.8   |
| 85°   | 19.2   | 26.8   | 19.2    | 23.0    | 19.2    | 15.3    | 15.3    | 7.7     | 0.0     | 0.0     | 0.0    |
| 87.5° | 3.8    | 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):**

|       | 90°   | 95°   | 105°  | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 0°    | 34.5  | 34.5  | 34.5  | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 |
| 2.5°  | 30.7  | 30.7  | 30.7  | 26.8 | 26.8 | 26.8 | 23.0 | 23.0 | 23.0 | 19.2 | 19.2 |
| 5°    | 38.3  | 34.5  | 30.7  | 30.7 | 26.8 | 26.8 | 23.0 | 19.2 | 19.2 | 19.2 | 15.3 |
| 7.5°  | 42.2  | 38.3  | 34.5  | 30.7 | 26.8 | 23.0 | 23.0 | 19.2 | 15.3 | 15.3 | 15.3 |
| 10°   | 49.8  | 46.0  | 38.3  | 30.7 | 26.8 | 23.0 | 19.2 | 19.2 | 15.3 | 11.5 | 11.5 |
| 12.5° | 57.5  | 49.8  | 42.2  | 34.5 | 26.8 | 23.0 | 19.2 | 19.2 | 15.3 | 11.5 | 7.7  |
| 15°   | 65.2  | 57.5  | 46.0  | 34.5 | 26.8 | 23.0 | 19.2 | 19.2 | 11.5 | 7.7  | 3.8  |
| 17.5° | 72.8  | 61.3  | 46.0  | 38.3 | 26.8 | 23.0 | 19.2 | 15.3 | 7.7  | 3.8  | 0.0  |
| 20°   | 76.7  | 65.2  | 49.8  | 38.3 | 26.8 | 23.0 | 19.2 | 11.5 | 3.8  | 0.0  | 0.0  |
| 22.5° | 84.3  | 72.8  | 53.7  | 38.3 | 26.8 | 19.2 | 11.5 | 3.8  | 0.0  | 0.0  | 0.0  |
| 25°   | 99.7  | 76.7  | 53.7  | 38.3 | 26.8 | 19.2 | 7.7  | 0.0  | 0.0  | 0.0  | 0.0  |
| 27.5° | 111.2 | 84.3  | 53.7  | 38.3 | 26.8 | 15.3 | 3.8  | 0.0  | 0.0  | 0.0  | 0.0  |
| 30°   | 130.3 | 92.0  | 57.5  | 38.3 | 26.8 | 11.5 | 3.8  | 0.0  | 0.0  | 0.0  | 0.0  |
| 32.5° | 161.0 | 99.7  | 57.5  | 38.3 | 23.0 | 11.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 35°   | 195.5 | 115.0 | 57.5  | 38.3 | 23.0 | 11.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 37.5° | 199.3 | 122.7 | 57.5  | 38.3 | 23.0 | 7.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 40°   | 207.0 | 115.0 | 61.3  | 38.3 | 23.0 | 7.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 42.5° | 237.7 | 107.3 | 65.2  | 38.3 | 23.0 | 7.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 45°   | 352.7 | 111.2 | 65.2  | 42.2 | 23.0 | 11.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 47.5° | 613.3 | 115.0 | 61.3  | 42.2 | 23.0 | 11.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 50°   | 785.8 | 134.2 | 61.3  | 46.0 | 26.8 | 7.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 52.5° | 835.7 | 157.2 | 61.3  | 49.8 | 34.5 | 3.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 55°   | 812.7 | 184.0 | 65.2  | 53.7 | 42.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 57.5° | 751.3 | 199.3 | 69.0  | 57.5 | 46.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 59°   | 686.2 | 210.8 | 80.5  | 61.3 | 46.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 60°   | 632.5 | 222.3 | 84.3  | 65.2 | 46.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 62.5° | 509.8 | 237.7 | 92.0  | 76.7 | 38.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 65°   | 444.7 | 249.2 | 95.8  | 84.3 | 34.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 67.5° | 406.3 | 256.8 | 103.5 | 88.2 | 30.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 70°   | 375.7 | 253.0 | 111.2 | 84.3 | 26.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 72.5° | 341.2 | 241.5 | 134.2 | 76.7 | 23.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 75°   | 306.7 | 218.5 | 145.7 | 69.0 | 15.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 77.5° | 222.3 | 184.0 | 134.2 | 61.3 | 7.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 80°   | 95.8  | 99.7  | 95.8  | 46.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 82.5° | 19.2  | 23.0  | 19.2  | 11.5 | 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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CATALOG NUMBER: NVN-SA4A-750-U-LBC

**CANDELA DISTRIBUTION (continued):**

|       | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0°    | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 |
| 2.5°  | 19.2 | 19.2 | 19.2 | 19.2 | 23.0 | 23.0 | 30.7 | 38.3 | 46.0 | 49.8 | 49.8 |
| 5°    | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 | 19.2 | 23.0 | 30.7 | 42.2 | 46.0 | 46.0 |
| 7.5°  | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 19.2 | 26.8 | 38.3 | 42.2 | 46.0 |
| 10°   | 11.5 | 7.7  | 7.7  | 3.8  | 3.8  | 7.7  | 11.5 | 23.0 | 34.5 | 38.3 | 42.2 |
| 12.5° | 7.7  | 3.8  | 3.8  | 0.0  | 0.0  | 3.8  | 7.7  | 19.2 | 30.7 | 34.5 | 38.3 |
| 15°   | 3.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.8  | 15.3 | 26.8 | 30.7 | 38.3 |
| 17.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 11.5 | 23.0 | 30.7 | 34.5 |
| 20°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.7  | 19.2 | 26.8 | 30.7 |
| 22.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.8  | 15.3 | 23.0 | 26.8 |
| 25°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 11.5 | 15.3 | 19.2 |
| 27.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.7  | 11.5 | 15.3 |
| 30°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.7  | 11.5 | 15.3 |
| 32.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.8  | 7.7  | 11.5 |
| 35°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.8  | 7.7  | 11.5 |
| 37.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.8  | 7.7  | 7.7  |
| 40°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.8  | 7.7  |
| 42.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.8  | 7.7  |
| 45°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.8  | 7.7  |
| 47.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.8  | 7.7  |
| 50°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.8  | 7.7  |
| 52.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.8  | 3.8  |
| 55°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.8  | 3.8  |
| 57.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.8  |
| 59°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.8  |
| 60°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.8  |
| 62.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.8  |
| 65°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.8  |
| 67.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.8  |
| 70°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.8  |
| 72.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.8  |
| 75°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.8  | 3.8  |
| 77.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.8  | 7.7  |
| 80°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.8  | 7.7  |
| 82.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.8  | 3.8  |
| 85°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.8  | 3.8  |
| 87.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.8  | 3.8  |
| 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: P1066801

CATALOG NUMBER: NVN-SA4A-750-U-LBC

**CANDELA DISTRIBUTION (continued):**

|       | 285° | 295° | 305° | 315° | 318° | 325° | 335° | 345°  | 355°  | 360°   |
|-------|------|------|------|------|------|------|------|-------|-------|--------|
| 0°    | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 | 34.5  | 34.5  | 34.5   |
| 2.5°  | 53.7 | 53.7 | 49.8 | 46.0 | 46.0 | 46.0 | 49.8 | 53.7  | 53.7  | 53.7   |
| 5°    | 49.8 | 49.8 | 46.0 | 46.0 | 46.0 | 46.0 | 49.8 | 57.5  | 61.3  | 61.3   |
| 7.5°  | 49.8 | 49.8 | 46.0 | 46.0 | 46.0 | 46.0 | 49.8 | 57.5  | 61.3  | 65.2   |
| 10°   | 46.0 | 46.0 | 46.0 | 46.0 | 42.2 | 46.0 | 49.8 | 57.5  | 69.0  | 69.0   |
| 12.5° | 46.0 | 46.0 | 46.0 | 46.0 | 42.2 | 46.0 | 53.7 | 61.3  | 72.8  | 76.7   |
| 15°   | 46.0 | 46.0 | 46.0 | 42.2 | 42.2 | 46.0 | 53.7 | 65.2  | 76.7  | 84.3   |
| 17.5° | 42.2 | 46.0 | 46.0 | 42.2 | 42.2 | 46.0 | 53.7 | 65.2  | 84.3  | 95.8   |
| 20°   | 38.3 | 42.2 | 46.0 | 42.2 | 42.2 | 42.2 | 53.7 | 65.2  | 88.2  | 103.5  |
| 22.5° | 34.5 | 38.3 | 42.2 | 42.2 | 38.3 | 42.2 | 53.7 | 69.0  | 95.8  | 115.0  |
| 25°   | 30.7 | 34.5 | 34.5 | 38.3 | 38.3 | 42.2 | 53.7 | 69.0  | 99.7  | 130.3  |
| 27.5° | 23.0 | 26.8 | 30.7 | 34.5 | 34.5 | 42.2 | 53.7 | 72.8  | 107.3 | 161.0  |
| 30°   | 19.2 | 23.0 | 26.8 | 30.7 | 34.5 | 42.2 | 53.7 | 72.8  | 115.0 | 203.2  |
| 32.5° | 19.2 | 23.0 | 26.8 | 30.7 | 34.5 | 38.3 | 53.7 | 76.7  | 126.5 | 253.0  |
| 35°   | 15.3 | 19.2 | 23.0 | 30.7 | 30.7 | 38.3 | 53.7 | 76.7  | 138.0 | 329.7  |
| 37.5° | 15.3 | 19.2 | 23.0 | 30.7 | 30.7 | 38.3 | 53.7 | 76.7  | 168.7 | 368.0  |
| 40°   | 11.5 | 15.3 | 19.2 | 30.7 | 30.7 | 38.3 | 57.5 | 80.5  | 172.5 | 371.8  |
| 42.5° | 11.5 | 15.3 | 19.2 | 26.8 | 30.7 | 38.3 | 57.5 | 80.5  | 161.0 | 383.3  |
| 45°   | 11.5 | 15.3 | 19.2 | 30.7 | 34.5 | 42.2 | 57.5 | 84.3  | 157.2 | 437.0  |
| 47.5° | 11.5 | 15.3 | 19.2 | 30.7 | 38.3 | 42.2 | 57.5 | 84.3  | 161.0 | 624.8  |
| 50°   | 11.5 | 15.3 | 19.2 | 30.7 | 42.2 | 42.2 | 57.5 | 84.3  | 176.3 | 1004.4 |
| 52.5° | 7.7  | 11.5 | 15.3 | 26.8 | 34.5 | 46.0 | 61.3 | 80.5  | 187.8 | 1341.7 |
| 55°   | 7.7  | 7.7  | 11.5 | 23.0 | 30.7 | 49.8 | 65.2 | 80.5  | 218.5 | 1426.0 |
| 57.5° | 7.7  | 7.7  | 11.5 | 19.2 | 26.8 | 53.7 | 69.0 | 80.5  | 253.0 | 1383.9 |
| 59°   | 7.7  | 7.7  | 7.7  | 19.2 | 23.0 | 53.7 | 69.0 | 84.3  | 256.8 | 1311.0 |
| 60°   | 7.7  | 7.7  | 7.7  | 15.3 | 23.0 | 53.7 | 72.8 | 88.2  | 260.7 | 1226.7 |
| 62.5° | 3.8  | 3.8  | 3.8  | 15.3 | 19.2 | 53.7 | 80.5 | 107.3 | 268.3 | 946.8  |
| 65°   | 7.7  | 7.7  | 3.8  | 11.5 | 19.2 | 46.0 | 92.0 | 115.0 | 272.2 | 736.0  |
| 67.5° | 7.7  | 7.7  | 7.7  | 15.3 | 19.2 | 46.0 | 95.8 | 118.8 | 272.2 | 582.7  |
| 70°   | 7.7  | 7.7  | 7.7  | 15.3 | 23.0 | 46.0 | 95.8 | 122.7 | 268.3 | 475.3  |
| 72.5° | 7.7  | 7.7  | 7.7  | 15.3 | 23.0 | 42.2 | 88.2 | 126.5 | 256.8 | 402.5  |
| 75°   | 7.7  | 7.7  | 7.7  | 11.5 | 19.2 | 38.3 | 84.3 | 138.0 | 233.8 | 341.2  |
| 77.5° | 7.7  | 7.7  | 7.7  | 7.7  | 15.3 | 30.7 | 76.7 | 153.3 | 207.0 | 276.0  |
| 80°   | 11.5 | 7.7  | 7.7  | 7.7  | 11.5 | 26.8 | 72.8 | 149.5 | 172.5 | 180.2  |
| 82.5° | 11.5 | 7.7  | 7.7  | 3.8  | 7.7  | 19.2 | 57.5 | 115.0 | 88.2  | 80.5   |
| 85°   | 7.7  | 7.7  | 7.7  | 3.8  | 3.8  | 11.5 | 26.8 | 34.5  | 26.8  | 19.2   |
| 87.5° | 7.7  | 7.7  | 7.7  | 3.8  | 3.8  | 3.8  | 3.8  | 3.8   | 3.8   | 3.8    |
| 90°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0    |

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-6

Test Date: 10/10/2024

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

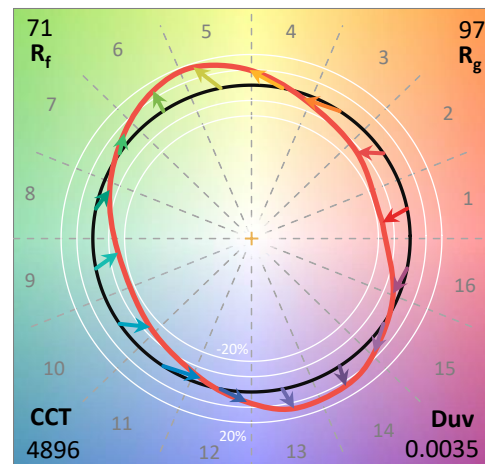
Data in this report applies to families of products including GSS-SB1A-750-U-5WQ

### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2407-184-6  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry:  $4\pi$   
 Issue Date: 10/15/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: McGraw-Edison  
 Catalog Number: **GSS-SB1A-750-U-5WQ**  
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI  
 5000K CCT 26 LEDS

### Spectral Parameters

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



### Test Conditions

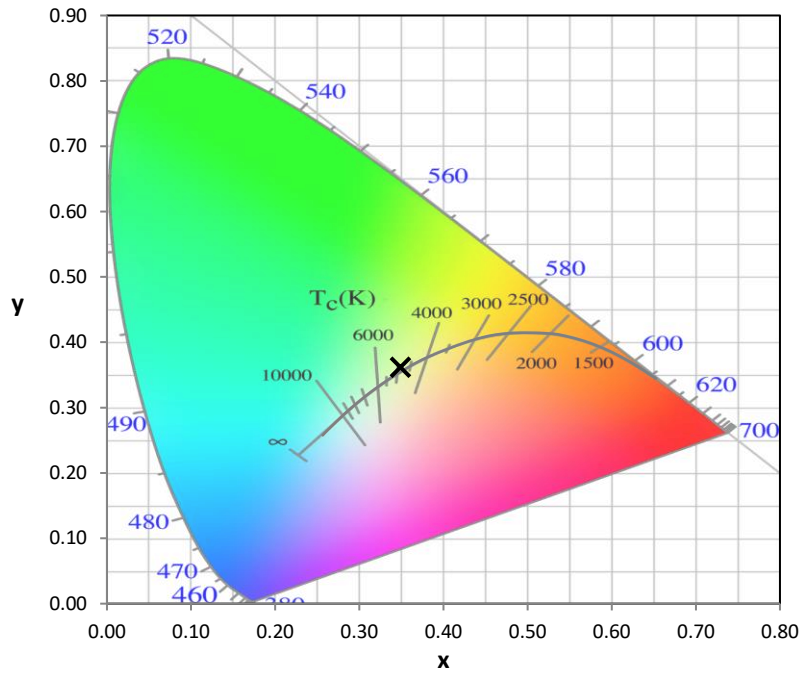
Stabilization Time: 21M  
 Operation Time: 1H 21M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-6

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

REPORT NUMBER: SP1-2407-184-6

**CIE 1931 Chromaticity Diagram**



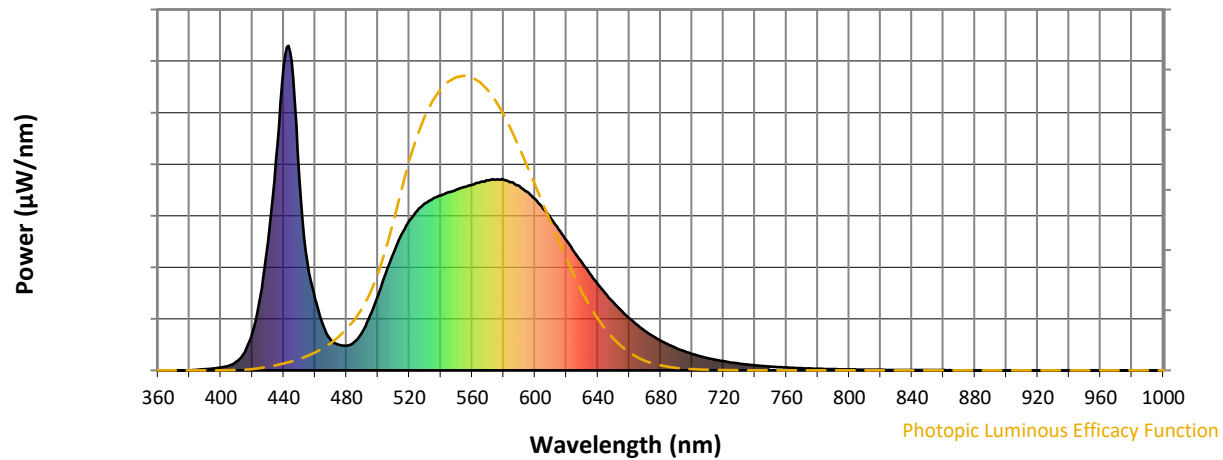
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-6

### Photopic Flux vs. Wavelength



### Photopic Lumens: NR

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

REPORT NUMBER: SP1-2407-184-6

### Scotopic Flux vs. Wavelength



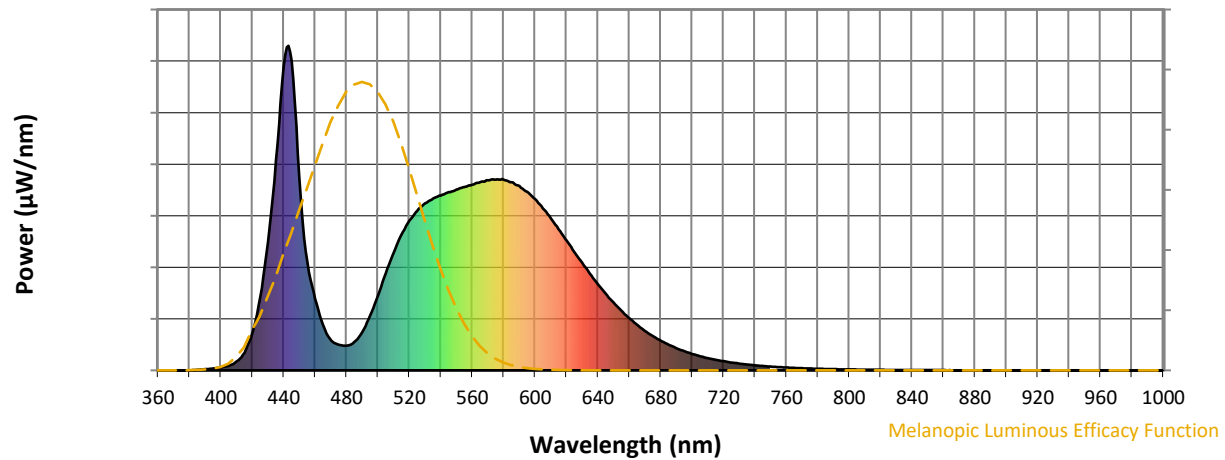
Scotopic Lumens: NR

S/P: 1.7

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

REPORT NUMBER: SP1-2407-184-6

### Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.37

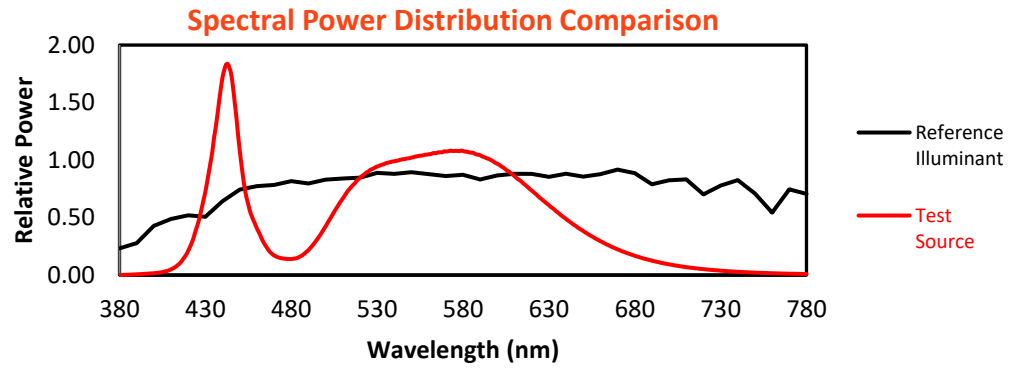
| λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(φ/nm)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

REPORT NUMBER: SP1-2407-184-6

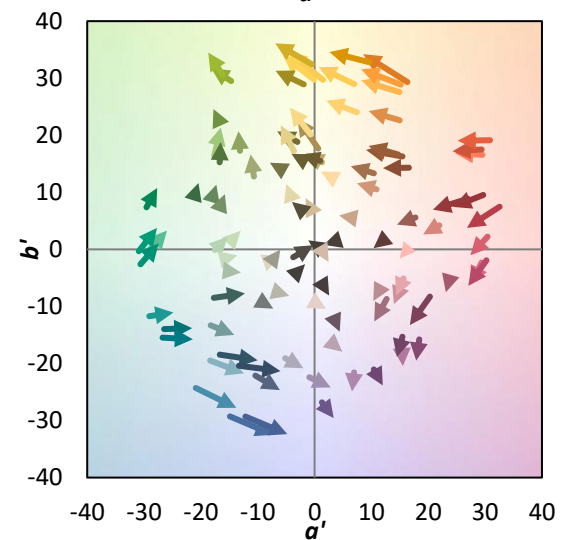
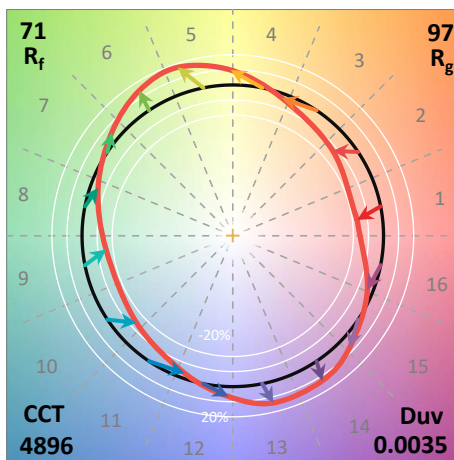
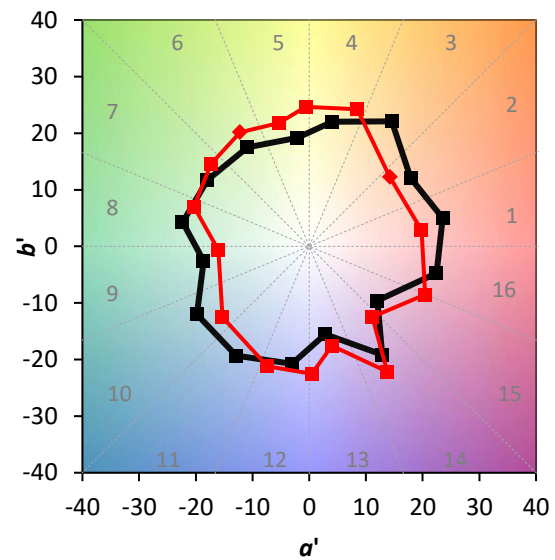
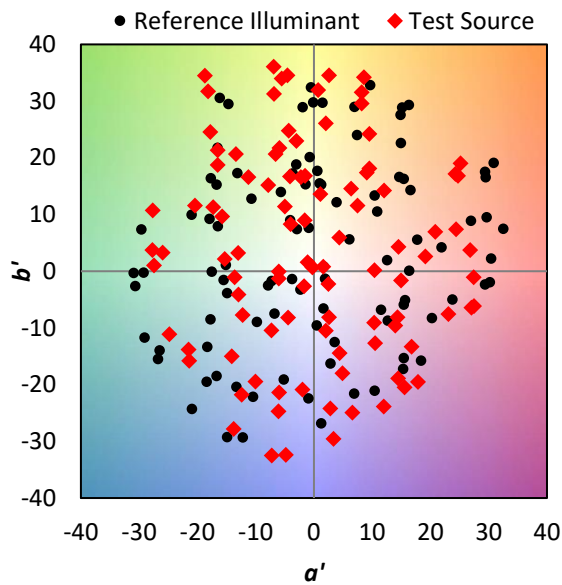
TM-30-18

### Summary

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



### Color Vector Graphics

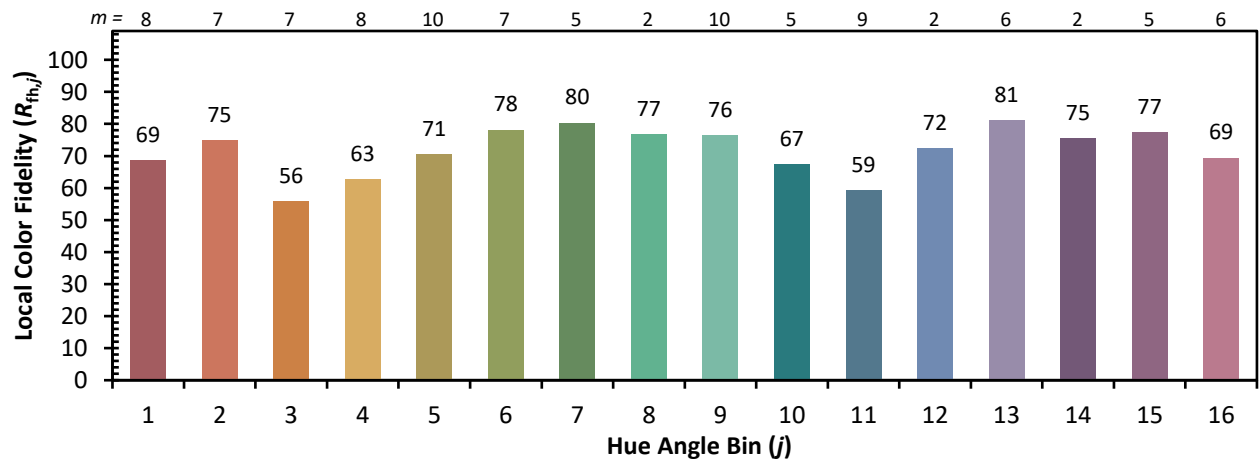
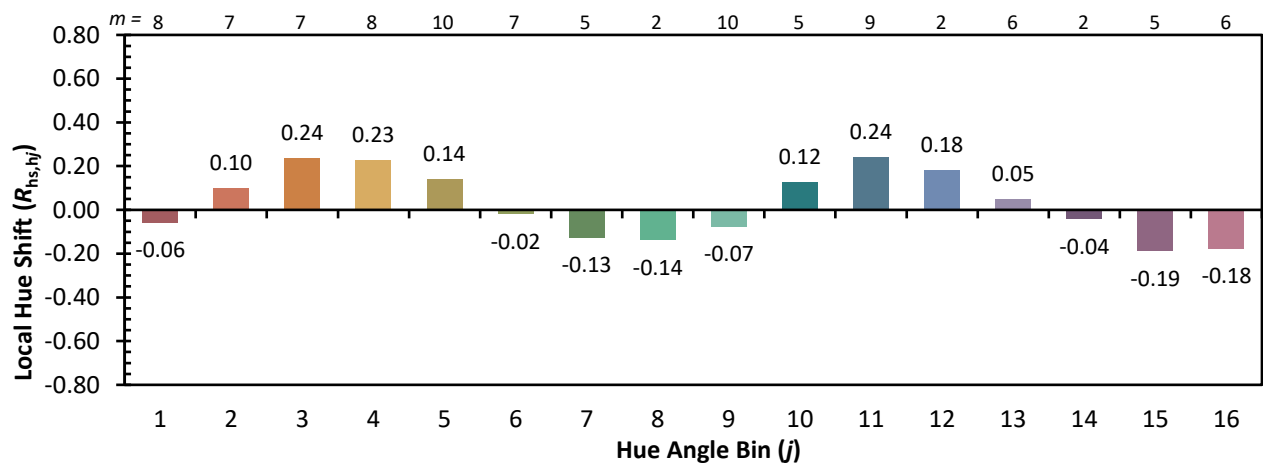
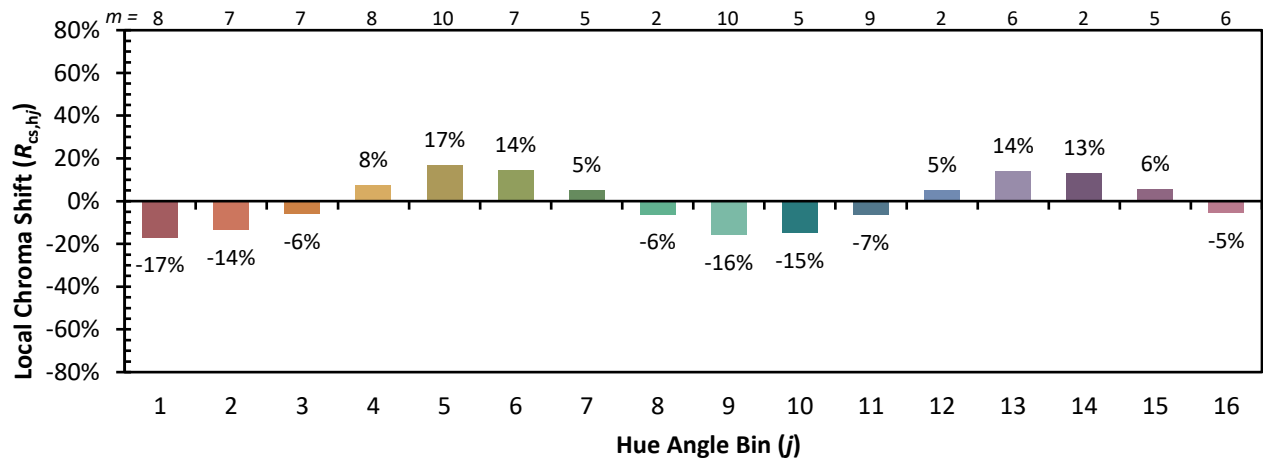


Individual Sample Fidelity Index ( $R_{f,i}$ )

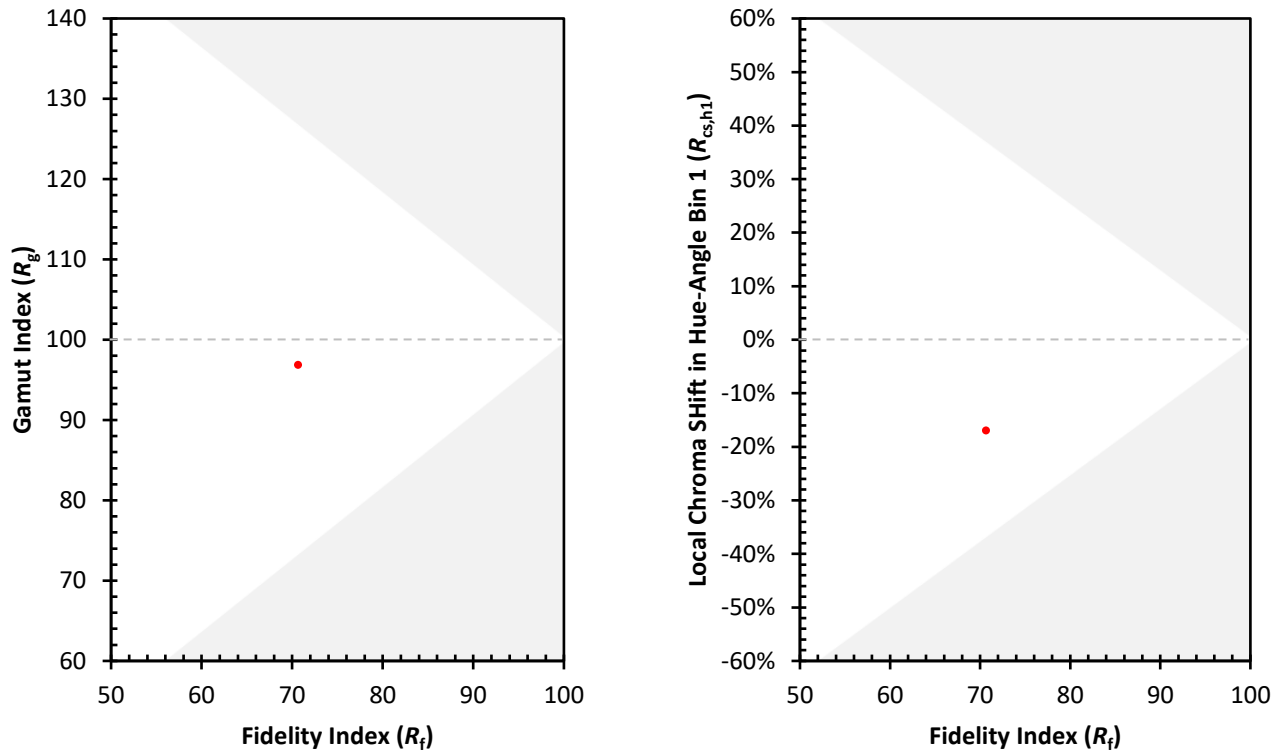
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 53 | CES51 = 87 | CES76 = 42 |
| CES02 = 59 | CES27 = 78 | CES52 = 88 | CES77 = 64 |
| CES03 = 30 | CES28 = 76 | CES53 = 74 | CES78 = 45 |
| CES04 = 69 | CES29 = 48 | CES54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



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)