

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: P1065509

Luminaire Tested: **GLAN-SA5A-850-U-LBC**

Issue Date: 08/07/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1065509  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 08/07/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5A-850-U-LBC  
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 5xLight Square PACKAGE  
80CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (70) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14783.7 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G3

Input Watts (W): 136.6  
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

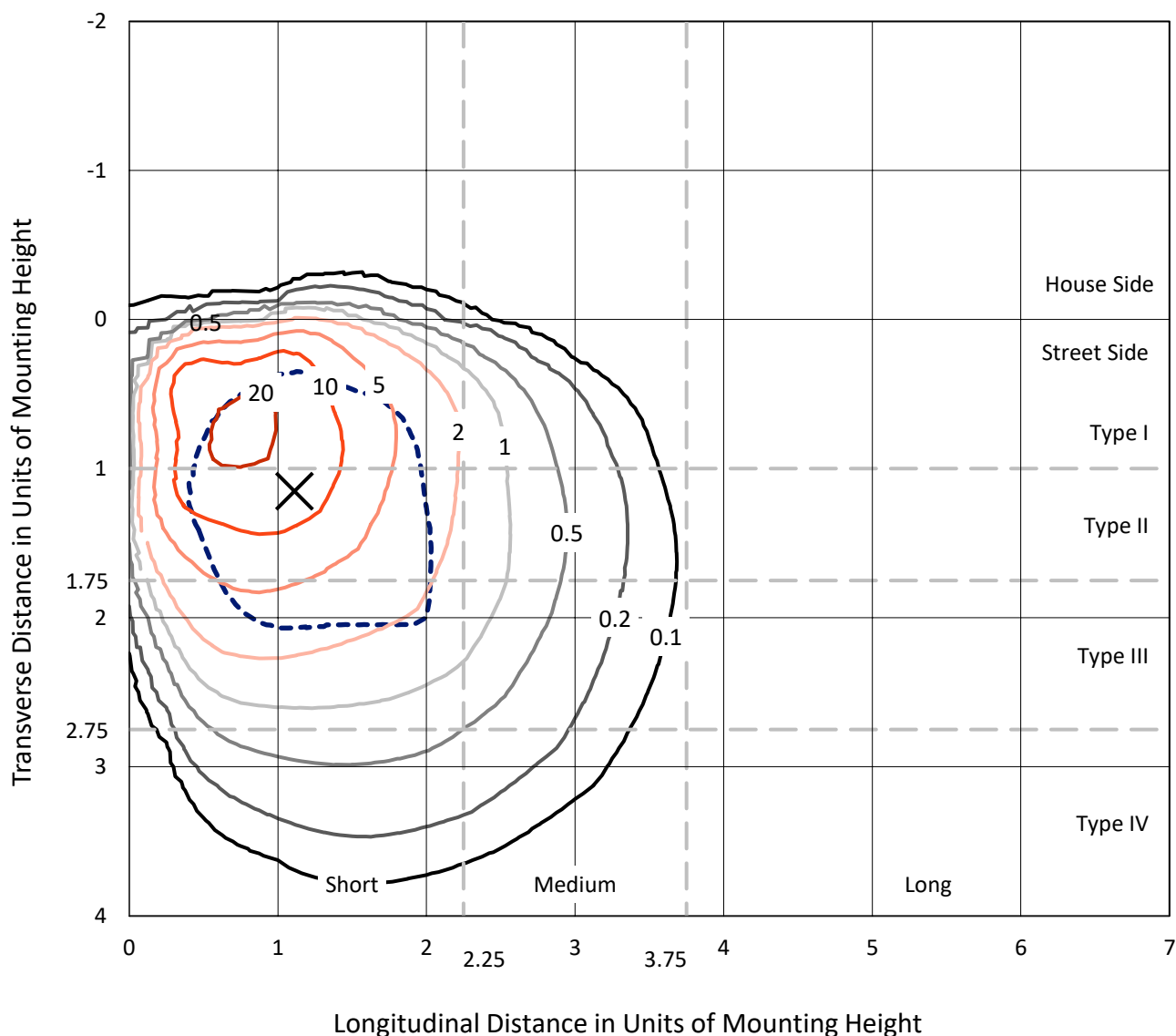
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

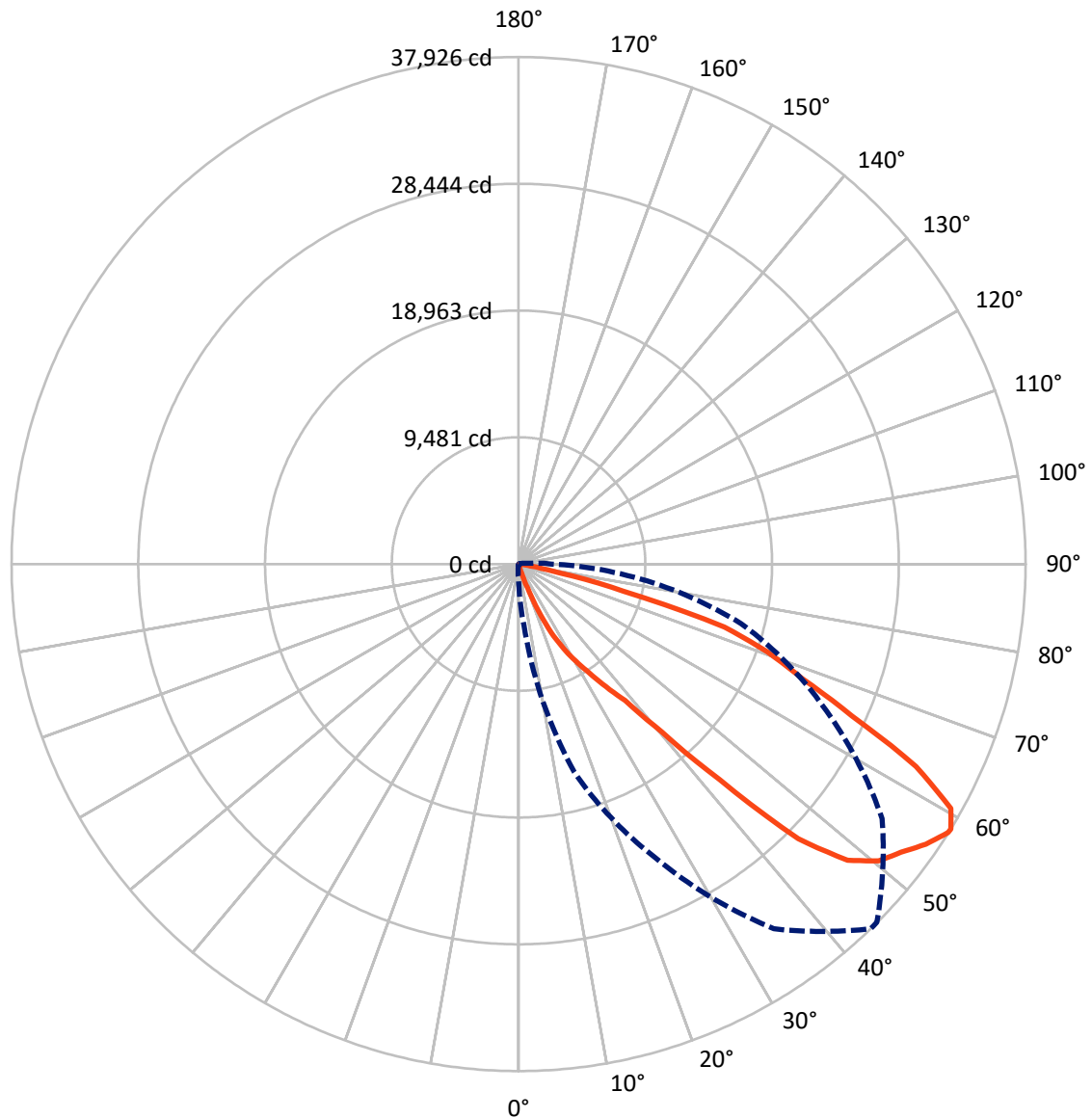


Based on 20 foot mounting height. Maximum calculated value = 25.7 fc

Type III - Short - N/A

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## Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral      - - - Horizontal Cone Through 58-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 100.9    | 0.0    | 100.9   |
|                    | % Fixture | 0.7      | 0.0    | 0.7     |
| <b>Street Side</b> | Lumens    | 14682.7  | 0.0    | 14682.7 |
|                    | % Fixture | 99.3     | 0.0    | 99.3    |
| <b>Total</b>       | Lumens    | 14783.7  | 0.0    | 14783.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 5.8     | 0.0       |
| 10°-20°   | 32.4    | 0.2       |
| 20°-30°   | 350.2   | 2.4       |
| 30°-40°   | 1035.7  | 7.0       |
| 40°-50°   | 3087.1  | 20.9      |
| 50°-60°   | 4898.4  | 33.1      |
| 60°-70°   | 4085.9  | 27.6      |
| 70°-80°   | 1260.1  | 8.5       |
| 80°-90°   | 28.0    | 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°    | 14783.7 | 100.0     |
| 0°-180°   | 14783.7 | 100.0     |

**Coefficient of Utilization**



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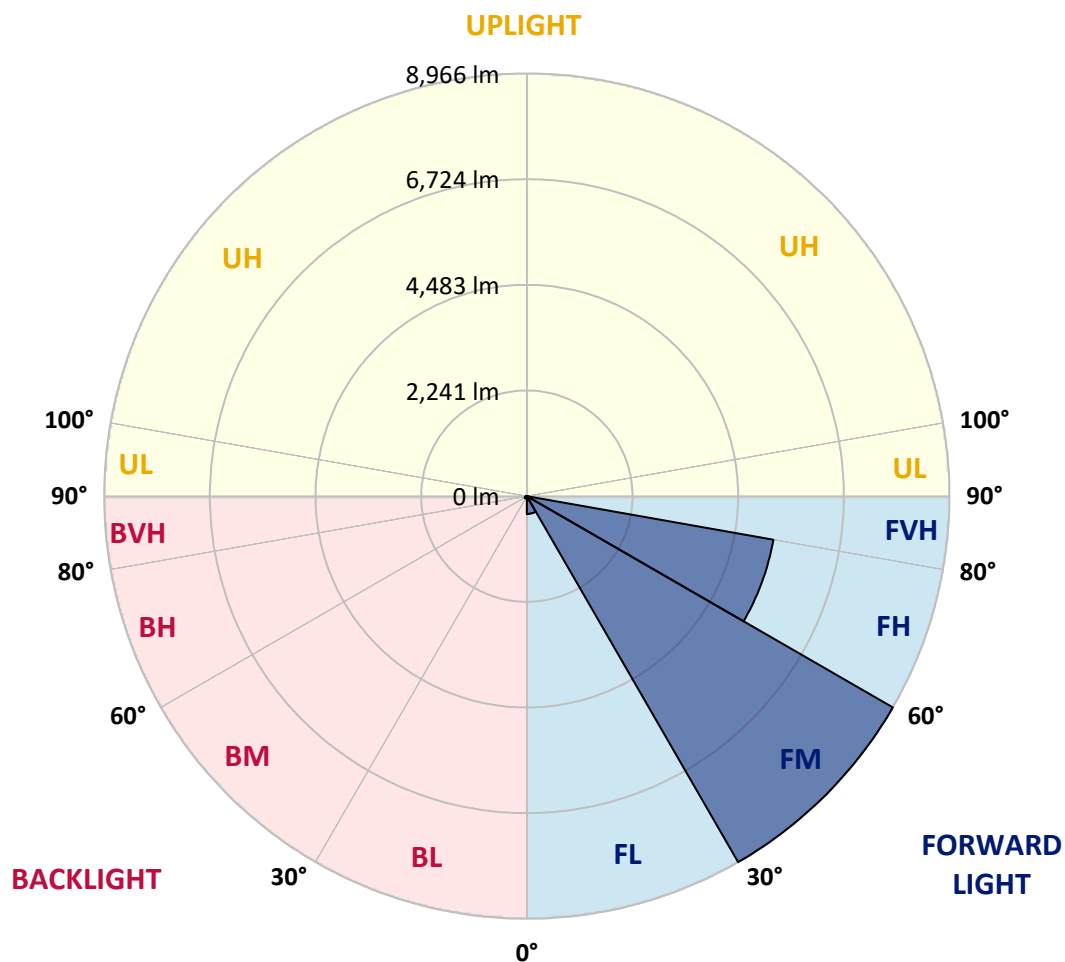
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 378.5  | 2.6       |                         |      |         |
| FM   | (30°-60°)   | 8966.0 | 60.6      |                         |      |         |
| FH   | (60°-80°)   | 5311.6 | 35.9      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 26.6   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 9.9    | 0.1       | B0/110                  |      |         |
| BM   | (30°-60°)   | 55.2   | 0.4       | B0/220                  |      |         |
| BH   | (60°-80°)   | 34.5   | 0.2       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 1.4    | 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-G3**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°     | 25°     | 35°     | 44°     | 45°     | 55°     | 65°     | 75°     |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 64.8   | 64.8   | 64.8    | 64.8    | 64.8    | 64.8    | 64.8    | 64.8    | 64.8    | 64.8    |
| 2.5°  | 83.8   | 83.8   | 80.4    | 75.9    | 71.5    | 67.0    | 65.9    | 63.7    | 62.5    | 61.4    |
| 5°    | 87.1   | 87.1   | 86.0    | 82.6    | 78.2    | 74.8    | 74.8    | 71.5    | 69.2    | 67.0    |
| 7.5°  | 89.3   | 90.5   | 92.7    | 91.6    | 89.3    | 86.0    | 86.0    | 83.8    | 80.4    | 74.8    |
| 10°   | 92.7   | 96.0   | 100.5   | 102.7   | 103.9   | 103.9   | 102.7   | 101.6   | 96.0    | 88.2    |
| 12.5° | 96.0   | 102.7  | 113.9   | 125.1   | 131.8   | 140.7   | 139.6   | 137.4   | 122.8   | 106.1   |
| 15°   | 102.7  | 112.8  | 136.2   | 168.6   | 218.9   | 250.2   | 262.4   | 251.3   | 203.3   | 142.9   |
| 17.5° | 110.6  | 127.3  | 197.7   | 352.9   | 578.5   | 685.7   | 750.5   | 698.0   | 462.3   | 271.4   |
| 20°   | 118.4  | 155.2  | 367.4   | 914.6   | 1501.0  | 1851.6  | 1948.8  | 1796.9  | 1153.6  | 517.1   |
| 22.5° | 131.8  | 217.8  | 744.9   | 1890.7  | 3234.2  | 3760.2  | 3859.6  | 3373.8  | 2178.8  | 1020.7  |
| 25°   | 159.7  | 316.0  | 1284.3  | 3081.2  | 4826.7  | 5714.6  | 5673.3  | 5036.7  | 3534.6  | 1630.5  |
| 27.5° | 199.9  | 460.1  | 1942.1  | 4377.8  | 6352.3  | 7135.1  | 7228.9  | 6441.6  | 4711.7  | 2397.7  |
| 30°   | 258.0  | 637.7  | 2647.9  | 5416.4  | 7575.1  | 8421.7  | 8437.3  | 7623.2  | 5764.8  | 3071.1  |
| 32.5° | 313.8  | 805.2  | 3265.5  | 6420.4  | 8780.1  | 9708.2  | 9777.4  | 8775.7  | 6551.0  | 3772.5  |
| 35°   | 356.3  | 914.6  | 3890.9  | 7302.6  | 9995.2  | 11273.9 | 11269.4 | 10080.1 | 7482.4  | 4399.0  |
| 37.5° | 359.6  | 1024.1 | 4457.1  | 8205.0  | 11534.1 | 12965.8 | 13107.7 | 11796.6 | 8608.2  | 5174.0  |
| 40°   | 351.8  | 1146.9 | 5174.0  | 9612.1  | 14307.1 | 16503.8 | 16628.9 | 14976.0 | 10866.3 | 6500.8  |
| 42.5° | 360.7  | 1360.2 | 6337.7  | 12210.9 | 18911.6 | 22066.5 | 22307.7 | 20570.0 | 15017.4 | 9207.9  |
| 45°   | 407.6  | 1761.2 | 8775.7  | 16558.5 | 25474.9 | 29321.1 | 29240.7 | 26738.0 | 19847.4 | 13328.8 |
| 47.5° | 562.9  | 2742.8 | 12389.6 | 20790.0 | 29669.5 | 33094.7 | 33163.9 | 30105.1 | 22666.2 | 16497.1 |
| 50°   | 865.5  | 4196.9 | 15426.1 | 23026.9 | 31473.1 | 34909.5 | 34844.7 | 31310.1 | 23737.2 | 18057.2 |
| 52.5° | 1125.7 | 5248.9 | 16949.4 | 23812.0 | 31704.3 | 35806.3 | 35801.8 | 31627.3 | 23903.6 | 18191.3 |
| 55°   | 1190.5 | 5328.2 | 16961.7 | 23854.5 | 32222.5 | 36980.0 | 37127.4 | 32407.9 | 24119.1 | 17606.1 |
| 57.5° | 1164.8 | 4717.3 | 16253.6 | 24100.1 | 33145.0 | 37887.9 | 37895.8 | 33163.9 | 24666.4 | 17247.6 |
| 58°   | 1142.5 | 4621.2 | 16110.7 | 24239.7 | 33303.5 | 37925.9 | 37906.9 | 33198.6 | 25112.0 | 17234.2 |
| 60°   | 1017.4 | 4012.6 | 15553.4 | 24596.0 | 33067.9 | 37146.4 | 36968.8 | 32442.5 | 25046.1 | 17096.8 |
| 62.5° | 799.6  | 3130.3 | 15005.1 | 24183.9 | 30541.7 | 33372.8 | 33446.5 | 28722.5 | 22832.6 | 16296.1 |
| 65°   | 636.6  | 2333.0 | 13861.5 | 21213.3 | 25149.9 | 27405.8 | 27680.6 | 23356.4 | 19057.9 | 13799.0 |
| 67.5° | 507.0  | 1686.3 | 11627.9 | 16889.1 | 19901.0 | 22872.8 | 23072.7 | 19609.6 | 14765.0 | 10572.6 |
| 70°   | 412.1  | 1140.2 | 8026.3  | 12351.6 | 16414.5 | 19755.9 | 19768.2 | 16290.5 | 11020.4 | 6927.4  |
| 72.5° | 365.2  | 789.6  | 4659.2  | 9008.0  | 13309.8 | 16098.4 | 15773.4 | 13219.3 | 8469.7  | 4103.1  |
| 75°   | 316.0  | 523.8  | 2284.9  | 5506.9  | 8069.9  | 8124.6  | 8248.5  | 6132.2  | 4233.7  | 1951.0  |
| 77.5° | 260.2  | 371.9  | 900.1   | 1504.3  | 2420.1  | 3098.0  | 3213.0  | 2434.6  | 1408.3  | 480.2   |
| 80°   | 178.7  | 176.5  | 242.3   | 461.2   | 692.4   | 867.7   | 809.7   | 626.5   | 368.5   | 184.3   |
| 82.5° | 77.1   | 83.8   | 109.4   | 131.8   | 107.2   | 103.9   | 99.4    | 63.7    | 49.1    | 38.0    |
| 85°   | 24.6   | 22.3   | 23.5    | 23.5    | 19.0    | 14.5    | 14.5    | 6.7     | 0.0     | 0.0     |
| 87.5° | 12.3   | 10.1   | 10.1    | 8.9     | 5.6     | 2.2     | 1.1     | 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     |



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**CANDELA DISTRIBUTION (continued):**

| 85°    |       | 90°    | 95°   | 105°  | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|-------|-------|------|------|------|------|------|------|------|
| 64.8   | 0°    | 64.8   | 64.8  | 64.8  | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 |
| 60.3   | 2.5°  | 59.2   | 59.2  | 57.0  | 54.7 | 53.6 | 51.4 | 50.3 | 49.1 | 48.0 | 46.9 |
| 64.8   | 5°    | 62.5   | 61.4  | 58.1  | 54.7 | 51.4 | 48.0 | 45.8 | 43.6 | 41.3 | 40.2 |
| 71.5   | 7.5°  | 68.1   | 65.9  | 59.2  | 53.6 | 49.1 | 44.7 | 42.4 | 39.1 | 36.9 | 33.5 |
| 79.3   | 10°   | 74.8   | 70.4  | 61.4  | 54.7 | 48.0 | 42.4 | 39.1 | 35.7 | 32.4 | 27.9 |
| 90.5   | 12.5° | 83.8   | 75.9  | 64.8  | 53.6 | 45.8 | 39.1 | 35.7 | 31.3 | 27.9 | 24.6 |
| 105.0  | 15°   | 91.6   | 81.5  | 65.9  | 53.6 | 43.6 | 35.7 | 31.3 | 26.8 | 23.5 | 19.0 |
| 131.8  | 17.5° | 102.7  | 86.0  | 64.8  | 50.3 | 40.2 | 31.3 | 26.8 | 23.5 | 17.9 | 11.2 |
| 195.4  | 20°   | 121.7  | 89.3  | 62.5  | 46.9 | 34.6 | 25.7 | 20.1 | 15.6 | 7.8  | 2.2  |
| 293.7  | 22.5° | 151.9  | 98.3  | 60.3  | 42.4 | 30.2 | 20.1 | 13.4 | 5.6  | 0.0  | 0.0  |
| 446.7  | 25°   | 210.0  | 113.9 | 60.3  | 40.2 | 26.8 | 14.5 | 4.5  | 0.0  | 0.0  | 0.0  |
| 634.3  | 27.5° | 279.2  | 135.1 | 60.3  | 34.6 | 21.2 | 7.8  | 0.0  | 0.0  | 0.0  | 0.0  |
| 864.4  | 30°   | 349.6  | 158.6 | 60.3  | 30.2 | 16.8 | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1064.3 | 32.5° | 416.6  | 178.7 | 61.4  | 25.7 | 11.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1341.3 | 35°   | 484.7  | 182.0 | 60.3  | 22.3 | 6.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1680.8 | 37.5° | 571.8  | 175.3 | 57.0  | 20.1 | 3.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2211.2 | 40°   | 703.6  | 178.7 | 53.6  | 19.0 | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 3157.1 | 42.5° | 947.0  | 193.2 | 49.1  | 19.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5028.9 | 45°   | 1637.2 | 259.1 | 44.7  | 20.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 7549.4 | 47.5° | 2708.2 | 465.7 | 43.6  | 20.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 9094.0 | 50°   | 3456.4 | 586.3 | 45.8  | 21.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 9287.2 | 52.5° | 3450.9 | 653.3 | 48.0  | 22.3 | 4.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 8560.1 | 55°   | 3067.8 | 665.6 | 51.4  | 24.6 | 14.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 7356.2 | 57.5° | 2564.1 | 607.5 | 59.2  | 30.2 | 26.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 7167.5 | 58°   | 2474.8 | 580.7 | 61.4  | 31.3 | 29.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 6217.1 | 60°   | 2028.1 | 473.5 | 78.2  | 39.1 | 39.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5097.0 | 62.5° | 1400.4 | 413.2 | 89.3  | 50.3 | 40.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 3758.0 | 65°   | 990.6  | 373.0 | 97.2  | 53.6 | 32.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2670.2 | 67.5° | 740.4  | 344.0 | 107.2 | 54.7 | 16.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1675.2 | 70°   | 567.3  | 322.7 | 131.8 | 58.1 | 4.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 998.4  | 72.5° | 462.3  | 298.2 | 159.7 | 60.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 598.6  | 75°   | 383.1  | 269.1 | 154.1 | 65.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 319.4  | 77.5° | 254.6  | 208.8 | 140.7 | 65.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 113.9  | 80°   | 89.3   | 82.6  | 109.4 | 58.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 23.5   | 82.5° | 13.4   | 11.2  | 15.6  | 20.1 | 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  |

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**CANDELA DISTRIBUTION (continued):**

| 180° |       | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° |
|------|-------|------|------|------|------|------|------|------|------|------|------|
| 64.8 | 0°    | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 |
| 45.8 | 2.5°  | 45.8 | 45.8 | 44.7 | 45.8 | 45.8 | 48.0 | 53.6 | 61.4 | 70.4 | 73.7 |
| 39.1 | 5°    | 38.0 | 36.9 | 35.7 | 35.7 | 35.7 | 39.1 | 43.6 | 52.5 | 62.5 | 67.0 |
| 32.4 | 7.5°  | 31.3 | 30.2 | 29.0 | 27.9 | 27.9 | 30.2 | 35.7 | 45.8 | 55.8 | 60.3 |
| 26.8 | 10°   | 25.7 | 23.5 | 22.3 | 21.2 | 21.2 | 23.5 | 29.0 | 39.1 | 50.3 | 54.7 |
| 22.3 | 12.5° | 21.2 | 17.9 | 15.6 | 14.5 | 13.4 | 16.8 | 22.3 | 31.3 | 43.6 | 49.1 |
| 16.8 | 15°   | 14.5 | 11.2 | 7.8  | 6.7  | 5.6  | 8.9  | 14.5 | 24.6 | 36.9 | 43.6 |
| 8.9  | 17.5° | 7.8  | 3.4  | 1.1  | 0.0  | 0.0  | 2.2  | 6.7  | 17.9 | 30.2 | 35.7 |
| 0.0  | 20°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.9  | 22.3 | 27.9 |
| 0.0  | 22.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.1  | 13.4 | 19.0 |
| 0.0  | 25°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.6  | 10.1 |
| 0.0  | 27.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  |
| 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  | 3.4  |
| 0.0  | 87.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.5  | 8.9  |
| 0.0  | 90°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |



REPORT NUMBER: P1065509

CATALOG NUMBER: GLAN-SA5A-850-U-LBC

**CANDELA DISTRIBUTION (continued):**

| 275° |       | 285° | 295° | 305° | 315° | 316° | 325° | 335° | 345°  | 355°  | 360°   |
|------|-------|------|------|------|------|------|------|------|-------|-------|--------|
| 64.8 | 0°    | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8  | 64.8  | 64.8   |
| 77.1 | 2.5°  | 79.3 | 78.2 | 75.9 | 73.7 | 73.7 | 73.7 | 77.1 | 80.4  | 83.8  | 83.8   |
| 69.2 | 5°    | 73.7 | 73.7 | 72.6 | 70.4 | 70.4 | 71.5 | 75.9 | 81.5  | 86.0  | 87.1   |
| 63.7 | 7.5°  | 68.1 | 70.4 | 68.1 | 67.0 | 68.1 | 69.2 | 73.7 | 80.4  | 87.1  | 89.3   |
| 59.2 | 10°   | 64.8 | 65.9 | 65.9 | 64.8 | 64.8 | 67.0 | 71.5 | 80.4  | 89.3  | 92.7   |
| 53.6 | 12.5° | 60.3 | 62.5 | 61.4 | 61.4 | 61.4 | 63.7 | 69.2 | 79.3  | 91.6  | 96.0   |
| 48.0 | 15°   | 55.8 | 59.2 | 59.2 | 58.1 | 58.1 | 59.2 | 67.0 | 78.2  | 94.9  | 102.7  |
| 41.3 | 17.5° | 51.4 | 54.7 | 55.8 | 53.6 | 53.6 | 55.8 | 63.7 | 78.2  | 97.2  | 110.6  |
| 33.5 | 20°   | 42.4 | 48.0 | 51.4 | 48.0 | 48.0 | 50.3 | 58.1 | 73.7  | 98.3  | 118.4  |
| 24.6 | 22.5° | 33.5 | 39.1 | 43.6 | 42.4 | 42.4 | 43.6 | 53.6 | 70.4  | 99.4  | 131.8  |
| 14.5 | 25°   | 24.6 | 30.2 | 33.5 | 35.7 | 35.7 | 39.1 | 49.1 | 68.1  | 103.9 | 159.7  |
| 6.7  | 27.5° | 14.5 | 21.2 | 25.7 | 27.9 | 29.0 | 33.5 | 45.8 | 65.9  | 111.7 | 199.9  |
| 0.0  | 30°   | 6.7  | 12.3 | 17.9 | 22.3 | 22.3 | 30.2 | 42.4 | 63.7  | 121.7 | 258.0  |
| 0.0  | 32.5° | 0.0  | 5.6  | 8.9  | 15.6 | 16.8 | 24.6 | 39.1 | 61.4  | 136.2 | 313.8  |
| 0.0  | 35°   | 0.0  | 0.0  | 4.5  | 12.3 | 12.3 | 20.1 | 35.7 | 59.2  | 158.6 | 356.3  |
| 0.0  | 37.5° | 0.0  | 0.0  | 0.0  | 8.9  | 10.1 | 17.9 | 34.6 | 58.1  | 163.1 | 359.6  |
| 0.0  | 40°   | 0.0  | 0.0  | 0.0  | 6.7  | 7.8  | 16.8 | 34.6 | 59.2  | 147.4 | 351.8  |
| 0.0  | 42.5° | 0.0  | 0.0  | 0.0  | 4.5  | 5.6  | 16.8 | 34.6 | 61.4  | 132.9 | 360.7  |
| 0.0  | 45°   | 0.0  | 0.0  | 0.0  | 3.4  | 4.5  | 17.9 | 33.5 | 60.3  | 125.1 | 407.6  |
| 0.0  | 47.5° | 0.0  | 0.0  | 0.0  | 4.5  | 6.7  | 17.9 | 32.4 | 59.2  | 126.2 | 562.9  |
| 0.0  | 50°   | 0.0  | 0.0  | 0.0  | 5.6  | 7.8  | 17.9 | 33.5 | 57.0  | 138.5 | 865.5  |
| 0.0  | 52.5° | 0.0  | 0.0  | 0.0  | 4.5  | 6.7  | 20.1 | 36.9 | 55.8  | 150.8 | 1125.7 |
| 0.0  | 55°   | 0.0  | 0.0  | 0.0  | 1.1  | 3.4  | 25.7 | 40.2 | 55.8  | 169.8 | 1190.5 |
| 0.0  | 57.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 29.0 | 45.8 | 59.2  | 201.0 | 1164.8 |
| 0.0  | 58°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 29.0 | 46.9 | 59.2  | 203.3 | 1142.5 |
| 0.0  | 60°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 29.0 | 51.4 | 65.9  | 218.9 | 1017.4 |
| 0.0  | 62.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 24.6 | 61.4 | 82.6  | 227.8 | 799.6  |
| 0.0  | 65°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 20.1 | 72.6 | 90.5  | 234.5 | 636.6  |
| 0.0  | 67.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 19.0 | 74.8 | 91.6  | 237.9 | 507.0  |
| 0.0  | 70°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 20.1 | 73.7 | 98.3  | 249.0 | 412.1  |
| 0.0  | 72.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 22.3 | 67.0 | 108.3 | 249.0 | 365.2  |
| 0.0  | 75°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 23.5 | 62.5 | 121.7 | 226.7 | 316.0  |
| 0.0  | 77.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 22.3 | 61.4 | 141.8 | 202.1 | 260.2  |
| 0.0  | 80°   | 2.2  | 3.4  | 3.4  | 2.2  | 2.2  | 19.0 | 60.3 | 144.1 | 172.0 | 178.7  |
| 1.1  | 82.5° | 6.7  | 8.9  | 7.8  | 5.6  | 5.6  | 16.8 | 53.6 | 120.6 | 89.3  | 77.1   |
| 6.7  | 85°   | 12.3 | 14.5 | 14.5 | 12.3 | 12.3 | 15.6 | 33.5 | 43.6  | 30.2  | 24.6   |
| 12.3 | 87.5° | 16.8 | 19.0 | 19.0 | 16.8 | 16.8 | 15.6 | 14.5 | 13.4  | 12.3  | 12.3   |
| 0.0  | 90°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0    |

(END OF RI



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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-12

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-850-U-5WQ

Data in this report applies to families of products including GSS-SB1A-850-U-5WQ

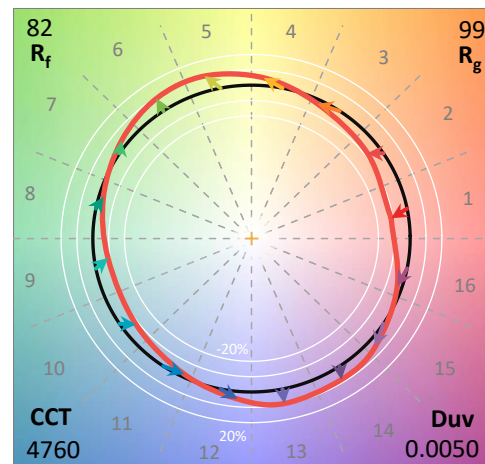
### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2407-184-12  
 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-850-U-5WQ**  
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI  
 5000K CCT 26 LEDS

### Spectral Parameters

CCT (K): 4760  
 CIE  $u'$ : 0.2107  
 CIE  $v'$ : 0.4939  
 Duv: 0.0050  
 CIE x: 0.3537  
 CIE y: 0.3685  
 CIE z: 0.2779  
 Peak Wavelength (nm): 443  
 Dominant Wavelength (nm): 571  
 Purity: 16.69598  
 R<sub>f</sub>: 82  
 R<sub>g</sub>: 99.4

CRI (Ra): 81.1  
 R1: 79.8  
 R2: 83.5  
 R3: 87.9  
 R4: 83.1  
 R5: 80.5  
 R6: 79.1  
 R7: 86.1  
 R8: 69.0  
 R9: 8.7  
 R10: 62.4  
 R11: 83.8  
 R12: 63.0  
 R13: 79.9  
 R14: 93.3  
 R15: 72.7



### Test Conditions

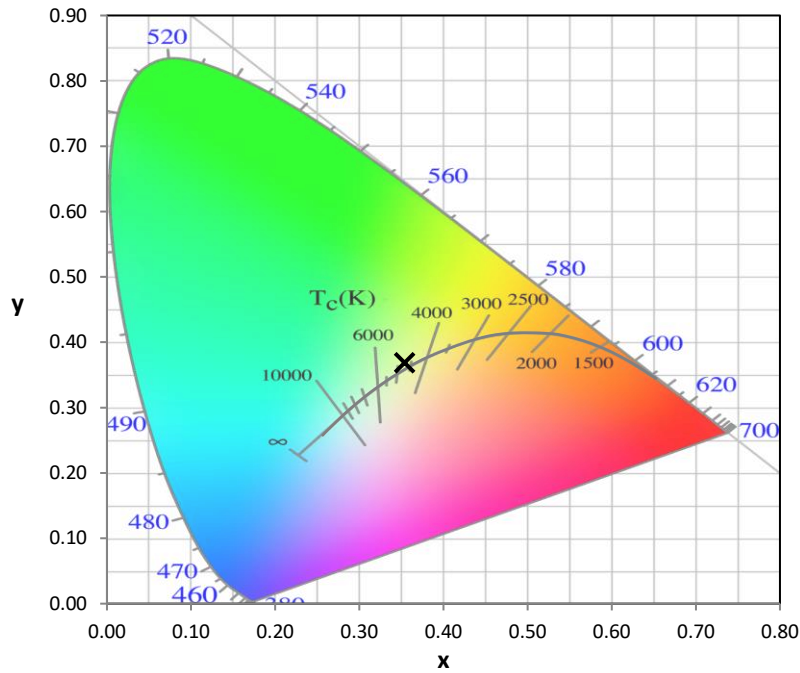
Stabilization Time: 21M  
 Operation Time: 1H 21M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-12

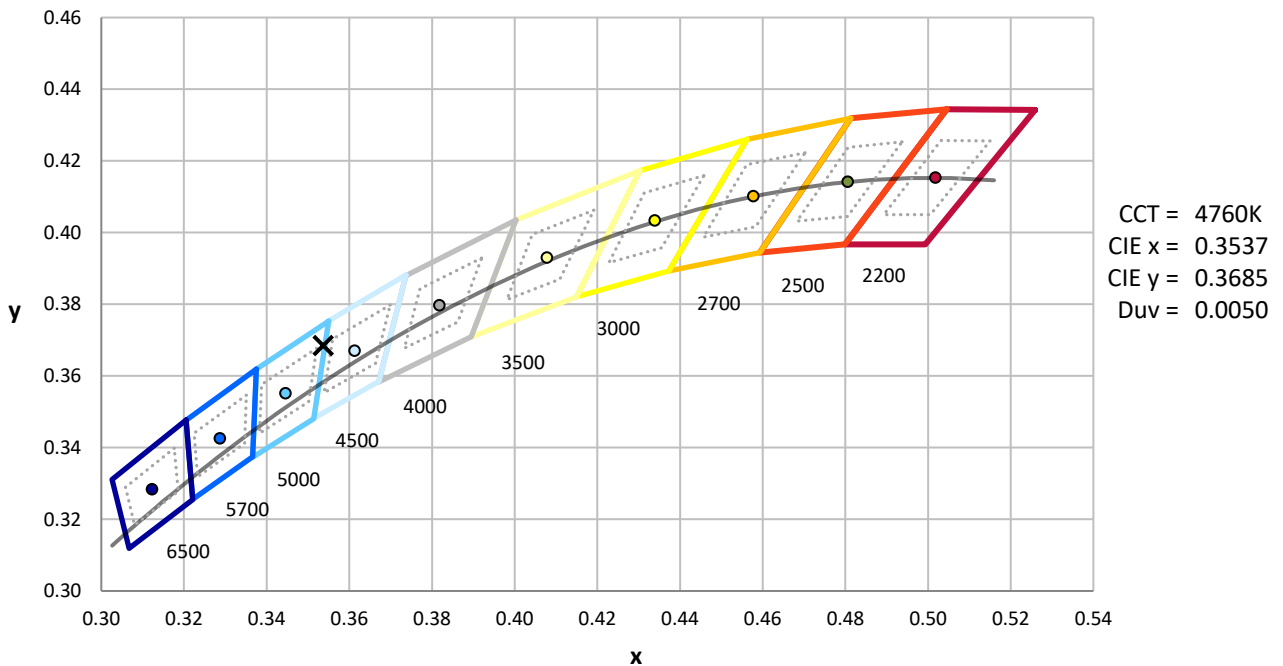
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| 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: SP1-2407-184-12

**CIE 1931 Chromaticity Diagram**



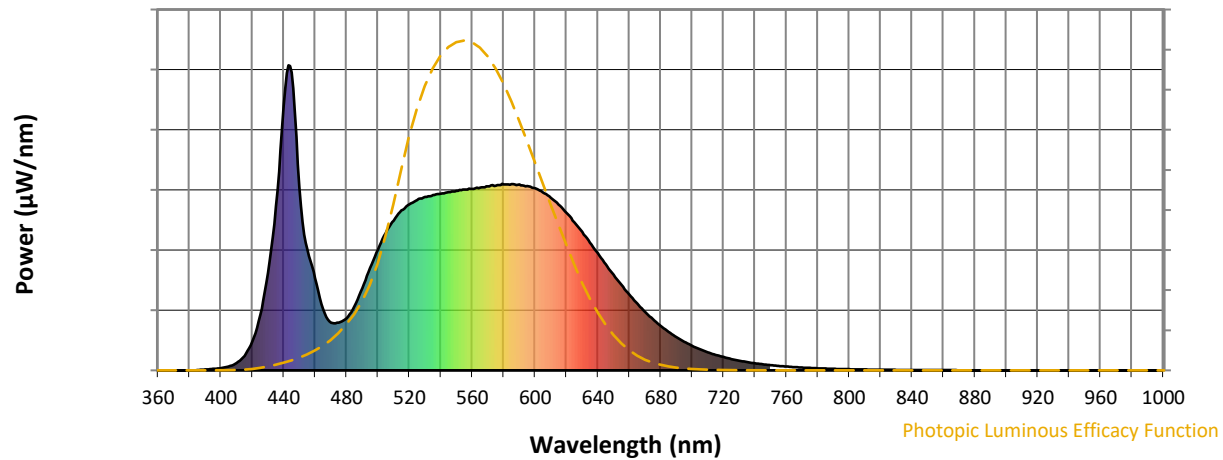
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-12

### Photopic Flux vs. Wavelength

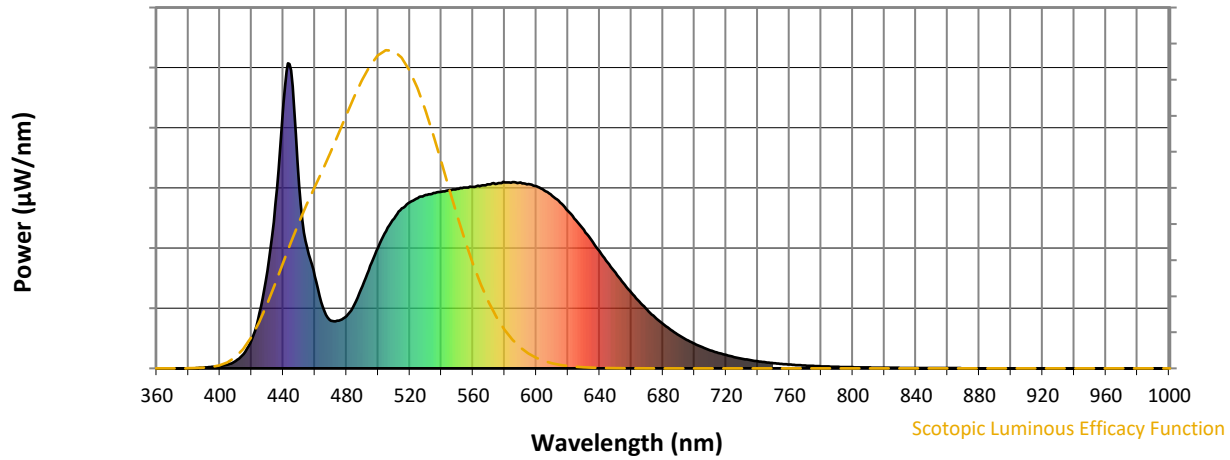


### Photopic Lumens: NR

| λ (nm) | Power W <sup>λ</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>λ</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>λ</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>λ</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>λ</sup> /nm | Lumens (φ/nm) |
|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|
| 360    | 0                        | NR            | 490    | 270                      | NR            | 620    | 517                      | NR            | 750    | 17                       | NR            | 880    | 0                        | NR            |
| 365    | 0                        | NR            | 495    | 335                      | NR            | 625    | 486                      | NR            | 755    | 15                       | NR            | 885    | 0                        | NR            |
| 370    | 0                        | NR            | 500    | 397                      | NR            | 630    | 454                      | NR            | 760    | 12                       | NR            | 890    | 0                        | NR            |
| 375    | 0                        | NR            | 505    | 451                      | NR            | 635    | 419                      | NR            | 765    | 11                       | NR            | 895    | 0                        | NR            |
| 380    | 0                        | NR            | 510    | 492                      | NR            | 640    | 384                      | NR            | 770    | 9                        | NR            | 900    | 0                        | NR            |
| 385    | 1                        | NR            | 515    | 524                      | NR            | 645    | 347                      | NR            | 775    | 8                        | NR            | 905    | 0                        | NR            |
| 390    | 3                        | NR            | 520    | 545                      | NR            | 650    | 313                      | NR            | 780    | 7                        | NR            | 910    | 0                        | NR            |
| 395    | 5                        | NR            | 525    | 558                      | NR            | 655    | 280                      | NR            | 785    | 6                        | NR            | 915    | 0                        | NR            |
| 400    | 7                        | NR            | 530    | 568                      | NR            | 660    | 248                      | NR            | 790    | 5                        | NR            | 920    | 0                        | NR            |
| 405    | 13                       | NR            | 535    | 575                      | NR            | 665    | 219                      | NR            | 795    | 4                        | NR            | 925    | 0                        | NR            |
| 410    | 24                       | NR            | 540    | 579                      | NR            | 670    | 192                      | NR            | 800    | 4                        | NR            | 930    | 0                        | NR            |
| 415    | 47                       | NR            | 545    | 585                      | NR            | 675    | 167                      | NR            | 805    | 3                        | NR            | 935    | 0                        | NR            |
| 420    | 95                       | NR            | 550    | 588                      | NR            | 680    | 146                      | NR            | 810    | 3                        | NR            | 940    | 0                        | NR            |
| 425    | 181                      | NR            | 555    | 593                      | NR            | 685    | 126                      | NR            | 815    | 2                        | NR            | 945    | 0                        | NR            |
| 430    | 319                      | NR            | 560    | 595                      | NR            | 690    | 109                      | NR            | 820    | 2                        | NR            | 950    | 0                        | NR            |
| 435    | 539                      | NR            | 565    | 600                      | NR            | 695    | 94                       | NR            | 825    | 2                        | NR            | 955    | 0                        | NR            |
| 440    | 868                      | NR            | 570    | 603                      | NR            | 700    | 80                       | NR            | 830    | 2                        | NR            | 960    | 0                        | NR            |
| 445    | 977                      | NR            | 575    | 606                      | NR            | 705    | 69                       | NR            | 835    | 1                        | NR            | 965    | 0                        | NR            |
| 450    | 601                      | NR            | 580    | 609                      | NR            | 710    | 59                       | NR            | 840    | 1                        | NR            | 970    | 0                        | NR            |
| 455    | 397                      | NR            | 585    | 611                      | NR            | 715    | 51                       | NR            | 845    | 1                        | NR            | 975    | 0                        | NR            |
| 460    | 302                      | NR            | 590    | 610                      | NR            | 720    | 44                       | NR            | 850    | 1                        | NR            | 980    | 0                        | NR            |
| 465    | 201                      | NR            | 595    | 604                      | NR            | 725    | 37                       | NR            | 855    | 1                        | NR            | 985    | 0                        | NR            |
| 470    | 157                      | NR            | 600    | 596                      | NR            | 730    | 32                       | NR            | 860    | 1                        | NR            | 990    | 0                        | NR            |
| 475    | 157                      | NR            | 605    | 583                      | NR            | 735    | 27                       | NR            | 865    | 1                        | NR            | 995    | 0                        | NR            |
| 480    | 171                      | NR            | 610    | 566                      | NR            | 740    | 23                       | NR            | 870    | 1                        | NR            | 1000   | 0                        | NR            |
| 485    | 210                      | NR            | 615    | 543                      | NR            | 745    | 20                       | NR            | 875    | 0                        | NR            |        |                          |               |

REPORT NUMBER: SP1-2407-184-12

Scotopic Flux vs. Wavelength



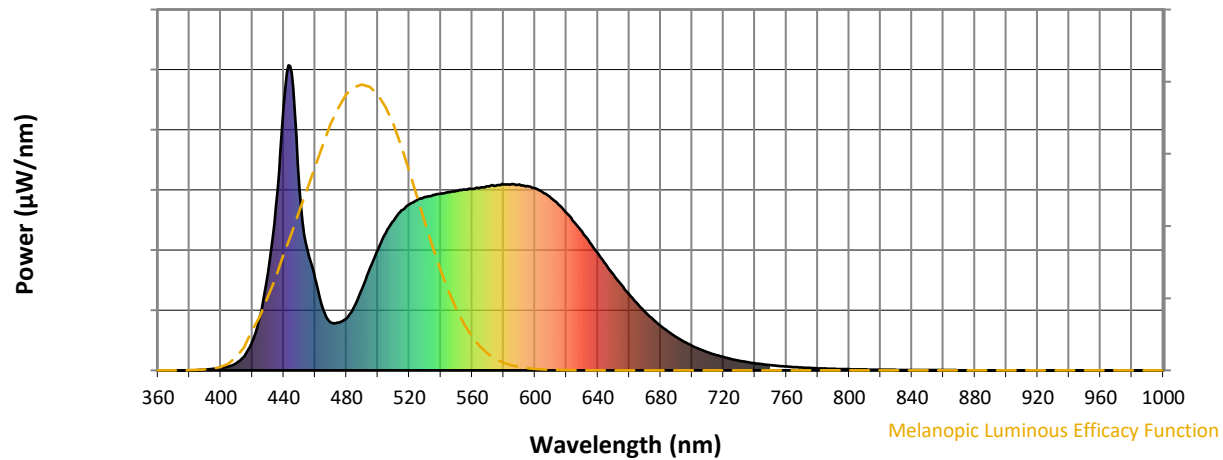
Scotopic Lumens: NR

S/P: 1.83

| $\lambda$<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               | 270                                  | NR                             | 620               | 517                                  | NR                             | 750               | 17                                   | NR                             | 880               | 0                                    | NR                             |
| 365               | 0                                    | NR                             | 495               | 335                                  | NR                             | 625               | 486                                  | NR                             | 755               | 15                                   | NR                             | 885               | 0                                    | NR                             |
| 370               | 0                                    | NR                             | 500               | 397                                  | NR                             | 630               | 454                                  | NR                             | 760               | 12                                   | NR                             | 890               | 0                                    | NR                             |
| 375               | 0                                    | NR                             | 505               | 451                                  | NR                             | 635               | 419                                  | NR                             | 765               | 11                                   | NR                             | 895               | 0                                    | NR                             |
| 380               | 0                                    | NR                             | 510               | 492                                  | NR                             | 640               | 384                                  | NR                             | 770               | 9                                    | NR                             | 900               | 0                                    | NR                             |
| 385               | 1                                    | NR                             | 515               | 524                                  | NR                             | 645               | 347                                  | NR                             | 775               | 8                                    | NR                             | 905               | 0                                    | NR                             |
| 390               | 3                                    | NR                             | 520               | 545                                  | NR                             | 650               | 313                                  | NR                             | 780               | 7                                    | NR                             | 910               | 0                                    | NR                             |
| 395               | 5                                    | NR                             | 525               | 558                                  | NR                             | 655               | 280                                  | NR                             | 785               | 6                                    | NR                             | 915               | 0                                    | NR                             |
| 400               | 7                                    | NR                             | 530               | 568                                  | NR                             | 660               | 248                                  | NR                             | 790               | 5                                    | NR                             | 920               | 0                                    | NR                             |
| 405               | 13                                   | NR                             | 535               | 575                                  | NR                             | 665               | 219                                  | NR                             | 795               | 4                                    | NR                             | 925               | 0                                    | NR                             |
| 410               | 24                                   | NR                             | 540               | 579                                  | NR                             | 670               | 192                                  | NR                             | 800               | 4                                    | NR                             | 930               | 0                                    | NR                             |
| 415               | 47                                   | NR                             | 545               | 585                                  | NR                             | 675               | 167                                  | NR                             | 805               | 3                                    | NR                             | 935               | 0                                    | NR                             |
| 420               | 95                                   | NR                             | 550               | 588                                  | NR                             | 680               | 146                                  | NR                             | 810               | 3                                    | NR                             | 940               | 0                                    | NR                             |
| 425               | 181                                  | NR                             | 555               | 593                                  | NR                             | 685               | 126                                  | NR                             | 815               | 2                                    | NR                             | 945               | 0                                    | NR                             |
| 430               | 319                                  | NR                             | 560               | 595                                  | NR                             | 690               | 109                                  | NR                             | 820               | 2                                    | NR                             | 950               | 0                                    | NR                             |
| 435               | 539                                  | NR                             | 565               | 600                                  | NR                             | 695               | 94                                   | NR                             | 825               | 2                                    | NR                             | 955               | 0                                    | NR                             |
| 440               | 868                                  | NR                             | 570               | 603                                  | NR                             | 700               | 80                                   | NR                             | 830               | 2                                    | NR                             | 960               | 0                                    | NR                             |
| 445               | 977                                  | NR                             | 575               | 606                                  | NR                             | 705               | 69                                   | NR                             | 835               | 1                                    | NR                             | 965               | 0                                    | NR                             |
| 450               | 601                                  | NR                             | 580               | 609                                  | NR                             | 710               | 59                                   | NR                             | 840               | 1                                    | NR                             | 970               | 0                                    | NR                             |
| 455               | 397                                  | NR                             | 585               | 611                                  | NR                             | 715               | 51                                   | NR                             | 845               | 1                                    | NR                             | 975               | 0                                    | NR                             |
| 460               | 302                                  | NR                             | 590               | 610                                  | NR                             | 720               | 44                                   | NR                             | 850               | 1                                    | NR                             | 980               | 0                                    | NR                             |
| 465               | 201                                  | NR                             | 595               | 604                                  | NR                             | 725               | 37                                   | NR                             | 855               | 1                                    | NR                             | 985               | 0                                    | NR                             |
| 470               | 157                                  | NR                             | 600               | 596                                  | NR                             | 730               | 32                                   | NR                             | 860               | 1                                    | NR                             | 990               | 0                                    | NR                             |
| 475               | 157                                  | NR                             | 605               | 583                                  | NR                             | 735               | 27                                   | NR                             | 865               | 1                                    | NR                             | 995               | 0                                    | NR                             |
| 480               | 171                                  | NR                             | 610               | 566                                  | NR                             | 740               | 23                                   | NR                             | 870               | 1                                    | NR                             | 1000              | 0                                    | NR                             |
| 485               | 210                                  | NR                             | 615               | 543                                  | NR                             | 745               | 20                                   | NR                             | 875               | 0                                    | NR                             |                   |                                      |                                |

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### Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.74

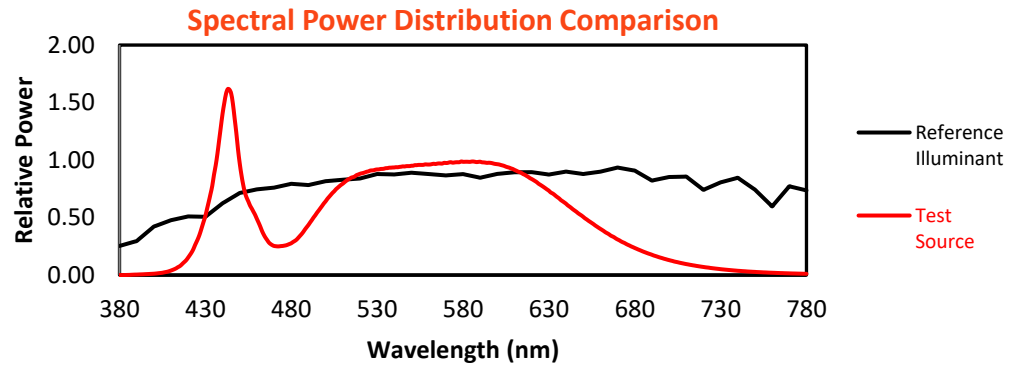
| λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) |
|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|
| 360    | 0                        | NR            | 490    | 270                      | NR            | 620    | 517                      | NR            | 750    | 17                       | NR            | 880    | 0                        | NR            |
| 365    | 0                        | NR            | 495    | 335                      | NR            | 625    | 486                      | NR            | 755    | 15                       | NR            | 885    | 0                        | NR            |
| 370    | 0                        | NR            | 500    | 397                      | NR            | 630    | 454                      | NR            | 760    | 12                       | NR            | 890    | 0                        | NR            |
| 375    | 0                        | NR            | 505    | 451                      | NR            | 635    | 419                      | NR            | 765    | 11                       | NR            | 895    | 0                        | NR            |
| 380    | 0                        | NR            | 510    | 492                      | NR            | 640    | 384                      | NR            | 770    | 9                        | NR            | 900    | 0                        | NR            |
| 385    | 1                        | NR            | 515    | 524                      | NR            | 645    | 347                      | NR            | 775    | 8                        | NR            | 905    | 0                        | NR            |
| 390    | 3                        | NR            | 520    | 545                      | NR            | 650    | 313                      | NR            | 780    | 7                        | NR            | 910    | 0                        | NR            |
| 395    | 5                        | NR            | 525    | 558                      | NR            | 655    | 280                      | NR            | 785    | 6                        | NR            | 915    | 0                        | NR            |
| 400    | 7                        | NR            | 530    | 568                      | NR            | 660    | 248                      | NR            | 790    | 5                        | NR            | 920    | 0                        | NR            |
| 405    | 13                       | NR            | 535    | 575                      | NR            | 665    | 219                      | NR            | 795    | 4                        | NR            | 925    | 0                        | NR            |
| 410    | 24                       | NR            | 540    | 579                      | NR            | 670    | 192                      | NR            | 800    | 4                        | NR            | 930    | 0                        | NR            |
| 415    | 47                       | NR            | 545    | 585                      | NR            | 675    | 167                      | NR            | 805    | 3                        | NR            | 935    | 0                        | NR            |
| 420    | 95                       | NR            | 550    | 588                      | NR            | 680    | 146                      | NR            | 810    | 3                        | NR            | 940    | 0                        | NR            |
| 425    | 181                      | NR            | 555    | 593                      | NR            | 685    | 126                      | NR            | 815    | 2                        | NR            | 945    | 0                        | NR            |
| 430    | 319                      | NR            | 560    | 595                      | NR            | 690    | 109                      | NR            | 820    | 2                        | NR            | 950    | 0                        | NR            |
| 435    | 539                      | NR            | 565    | 600                      | NR            | 695    | 94                       | NR            | 825    | 2                        | NR            | 955    | 0                        | NR            |
| 440    | 868                      | NR            | 570    | 603                      | NR            | 700    | 80                       | NR            | 830    | 2                        | NR            | 960    | 0                        | NR            |
| 445    | 977                      | NR            | 575    | 606                      | NR            | 705    | 69                       | NR            | 835    | 1                        | NR            | 965    | 0                        | NR            |
| 450    | 601                      | NR            | 580    | 609                      | NR            | 710    | 59                       | NR            | 840    | 1                        | NR            | 970    | 0                        | NR            |
| 455    | 397                      | NR            | 585    | 611                      | NR            | 715    | 51                       | NR            | 845    | 1                        | NR            | 975    | 0                        | NR            |
| 460    | 302                      | NR            | 590    | 610                      | NR            | 720    | 44                       | NR            | 850    | 1                        | NR            | 980    | 0                        | NR            |
| 465    | 201                      | NR            | 595    | 604                      | NR            | 725    | 37                       | NR            | 855    | 1                        | NR            | 985    | 0                        | NR            |
| 470    | 157                      | NR            | 600    | 596                      | NR            | 730    | 32                       | NR            | 860    | 1                        | NR            | 990    | 0                        | NR            |
| 475    | 157                      | NR            | 605    | 583                      | NR            | 735    | 27                       | NR            | 865    | 1                        | NR            | 995    | 0                        | NR            |
| 480    | 171                      | NR            | 610    | 566                      | NR            | 740    | 23                       | NR            | 870    | 1                        | NR            | 1000   | 0                        | NR            |
| 485    | 210                      | NR            | 615    | 543                      | NR            | 745    | 20                       | NR            | 875    | 0                        | NR            |        |                          |               |

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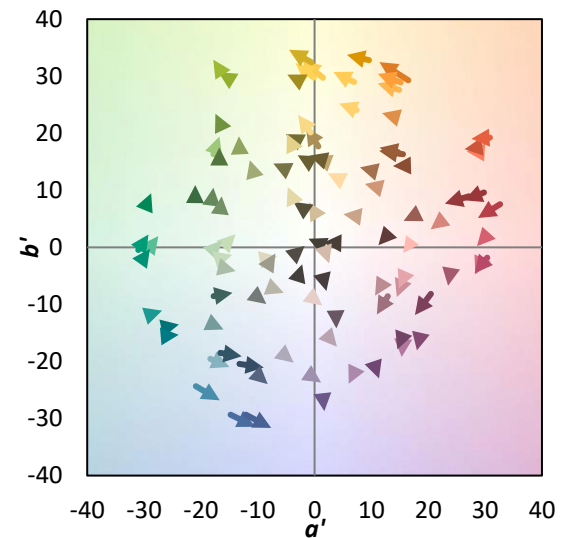
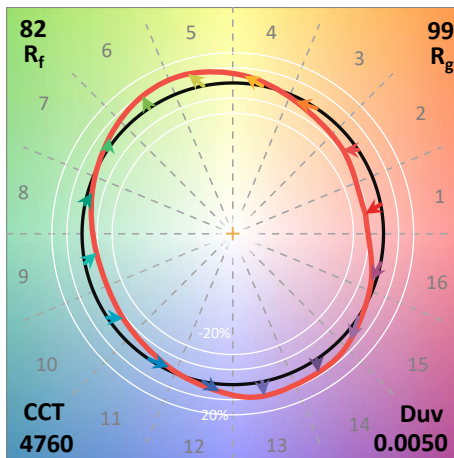
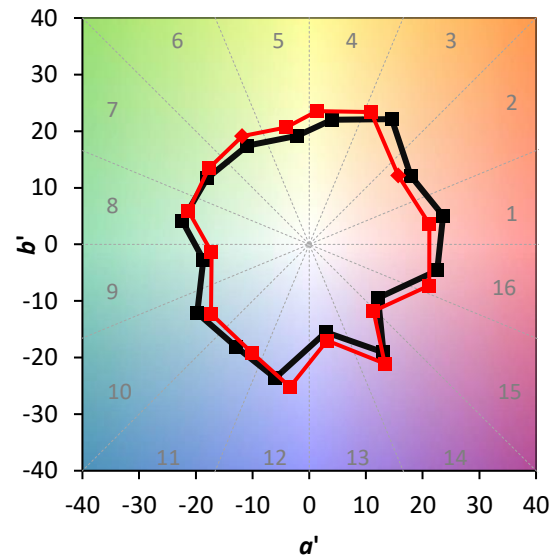
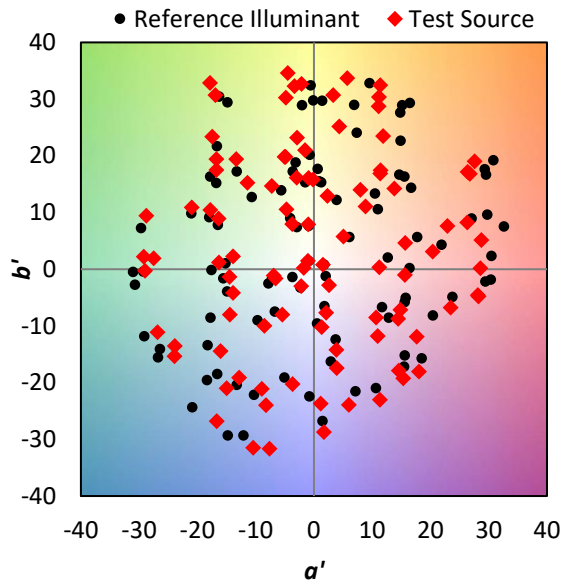
TM-30-18

### Summary

$R_f = 82$   
 $R_g = 99.4$   
 $CIE R_a = 81.1$   
 $R_9 = 8.7$

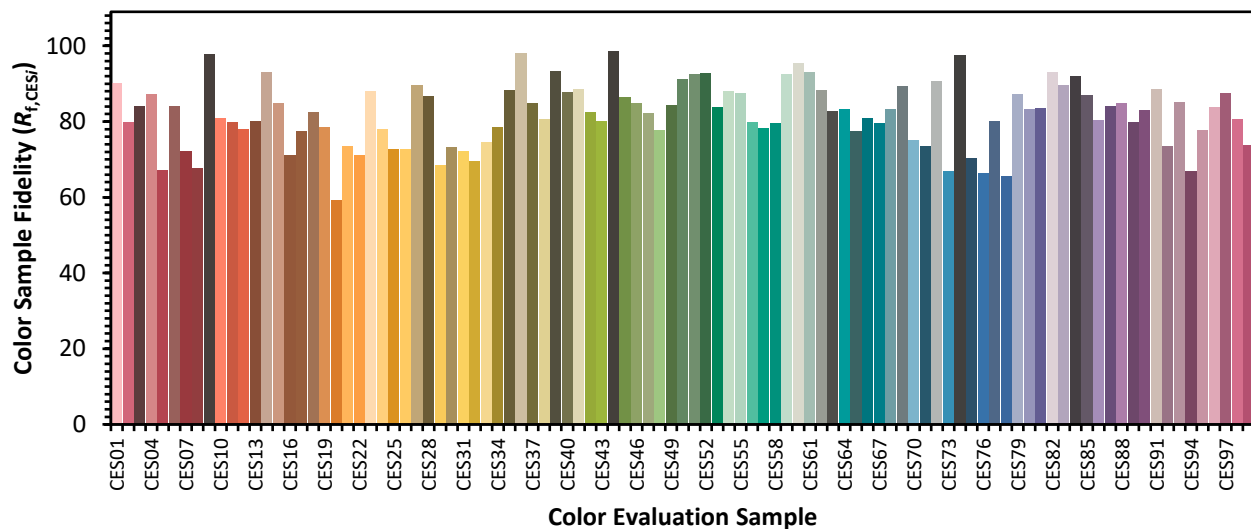


### Color Vector Graphics

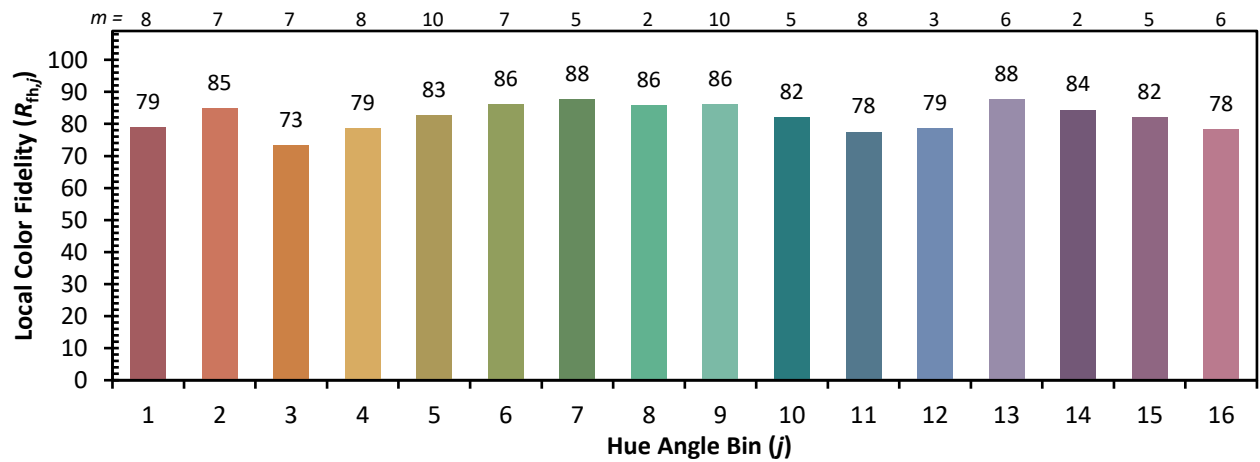
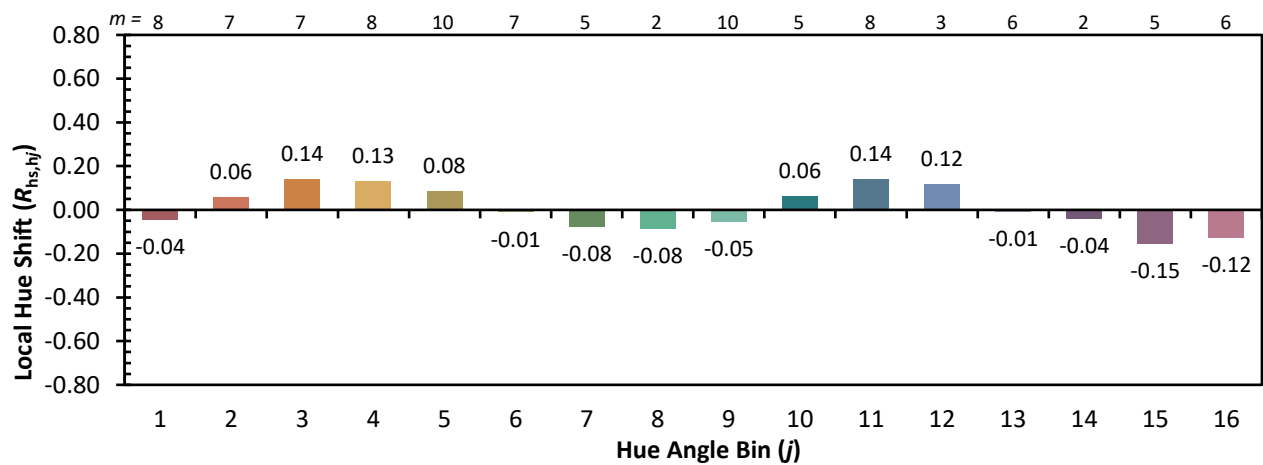
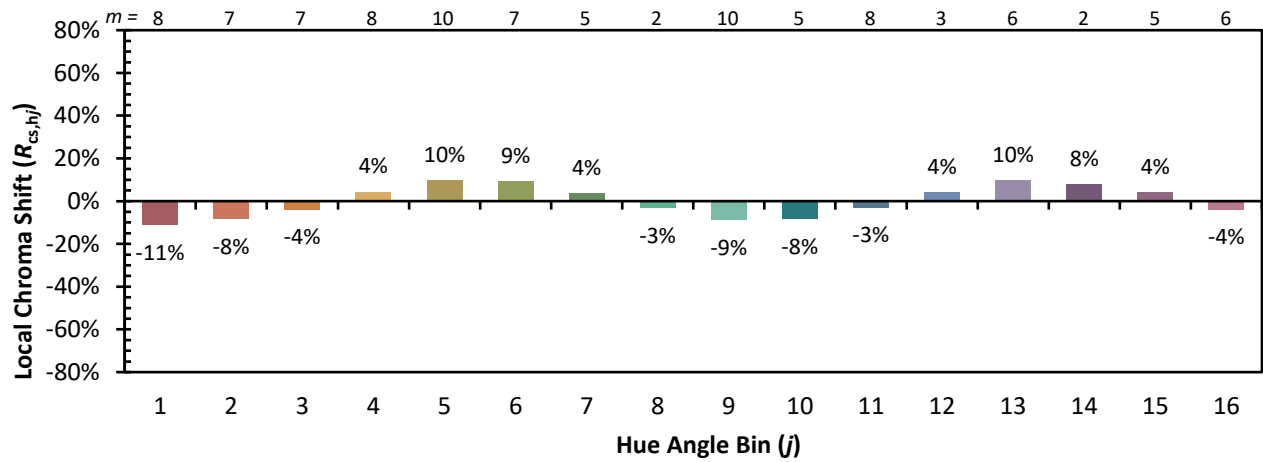


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

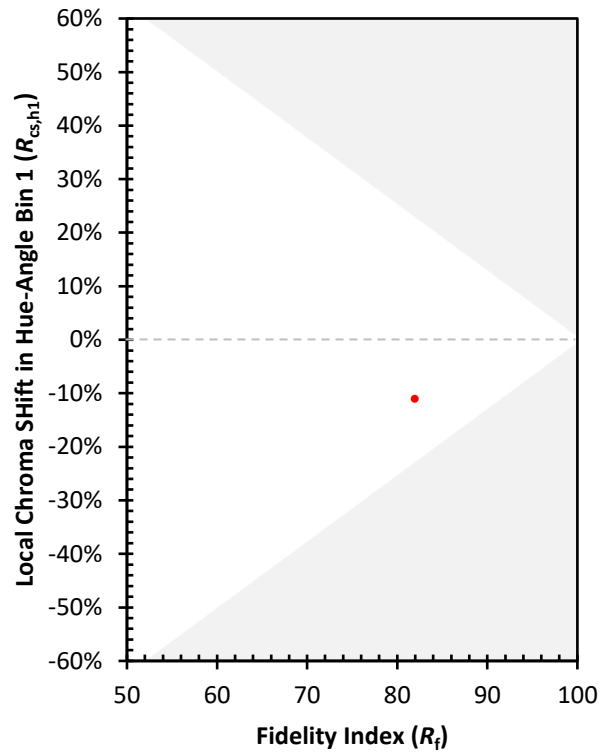
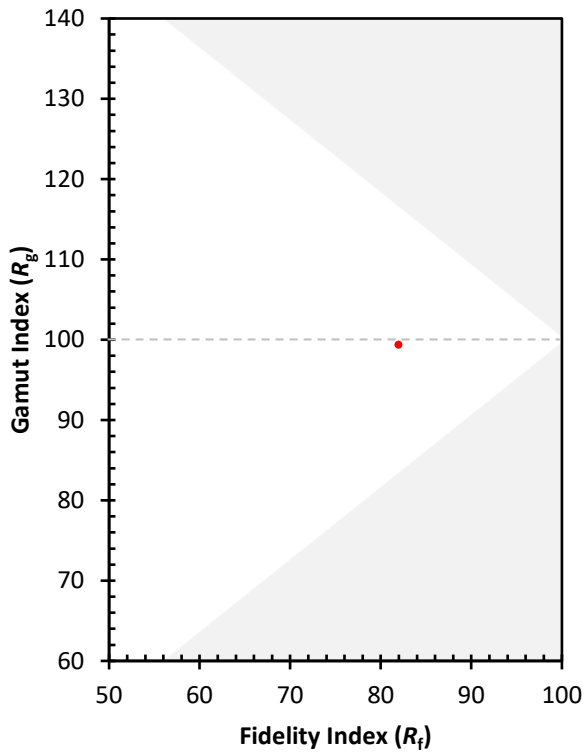
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 73 | CES51 = 92 | CES76 = 66 |
| CES02 = 60 | CES27 = 90 | CES52 = 93 | CES77 = 80 |
| CES03 = 30 | CES28 = 87 | CES53 = 84 | CES78 = 65 |
| CES04 = 69 | CES29 = 69 | CES54 = 88 | CES79 = 87 |
| CES05 = 47 | CES30 = 73 | CES55 = 88 | CES80 = 83 |
| CES06 = 50 | CES31 = 72 | CES56 = 80 | CES81 = 84 |
| CES07 = 40 | CES32 = 69 | CES57 = 78 | CES82 = 93 |
| CES08 = 39 | CES33 = 75 | CES58 = 80 | CES83 = 90 |
| CES09 = 29 | CES34 = 78 | CES59 = 93 | CES84 = 92 |
| CES10 = 73 | CES35 = 88 | CES60 = 95 | CES85 = 87 |
| CES11 = 56 | CES36 = 98 | CES61 = 93 | CES86 = 80 |
| CES12 = 62 | CES37 = 85 | CES62 = 88 | CES87 = 84 |
| CES13 = 42 | CES38 = 81 | CES63 = 83 | CES88 = 85 |
| CES14 = 74 | CES39 = 93 | CES64 = 83 | CES89 = 80 |
| CES15 = 71 | CES40 = 88 | CES65 = 77 | CES90 = 83 |
| CES16 = 46 | CES41 = 89 | CES66 = 81 | CES91 = 89 |
| CES17 = 48 | CES42 = 82 | CES67 = 80 | CES92 = 73 |
| CES18 = 55 | CES43 = 80 | CES68 = 83 | CES93 = 85 |
| CES19 = 70 | CES44 = 99 | CES69 = 89 | CES94 = 67 |
| CES20 = 64 | CES45 = 87 | CES70 = 75 | CES95 = 78 |
| CES21 = 85 | CES46 = 85 | CES71 = 73 | CES96 = 84 |
| CES22 = 77 | CES47 = 82 | CES72 = 91 | CES97 = 87 |
| CES23 = 91 | CES48 = 78 | CES73 = 67 | CES98 = 81 |
| CES24 = 90 | CES49 = 84 | CES74 = 98 | CES99 = 74 |
| CES25 = 71 | CES50 = 91 | CES75 = 70 |            |



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)