

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: P1065474

Luminaire Tested: **GLAN-SA5B-840-U-LBC**

Issue Date: 08/07/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1065474  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 08/07/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5B-840-U-LBC  
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 5xLight Square PACKAGE  
80CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (70) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18509.5 lumens  
Efficiency: N/A  
Efficacy: 103.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G3

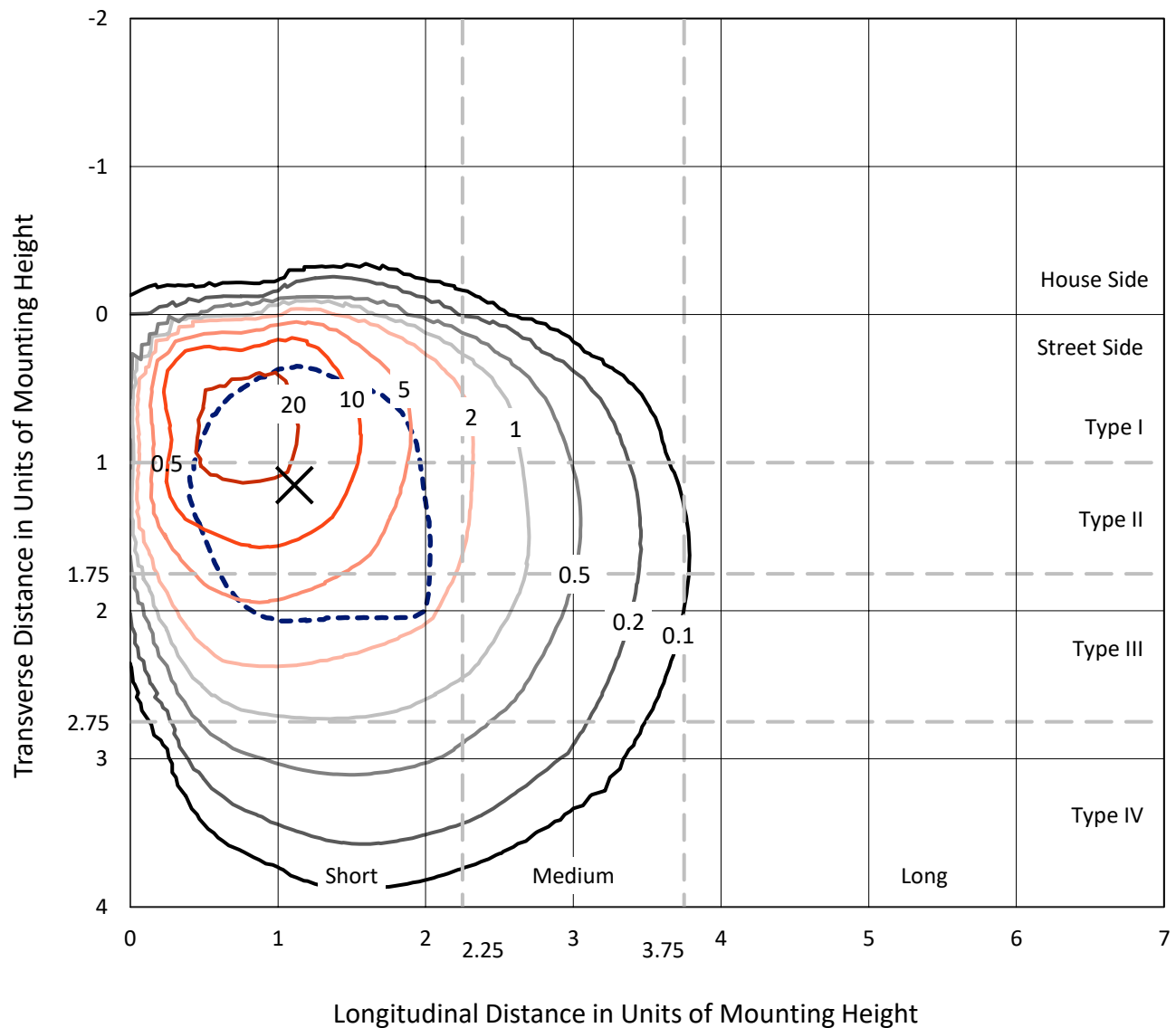
Input Watts (W): 178.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.97  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

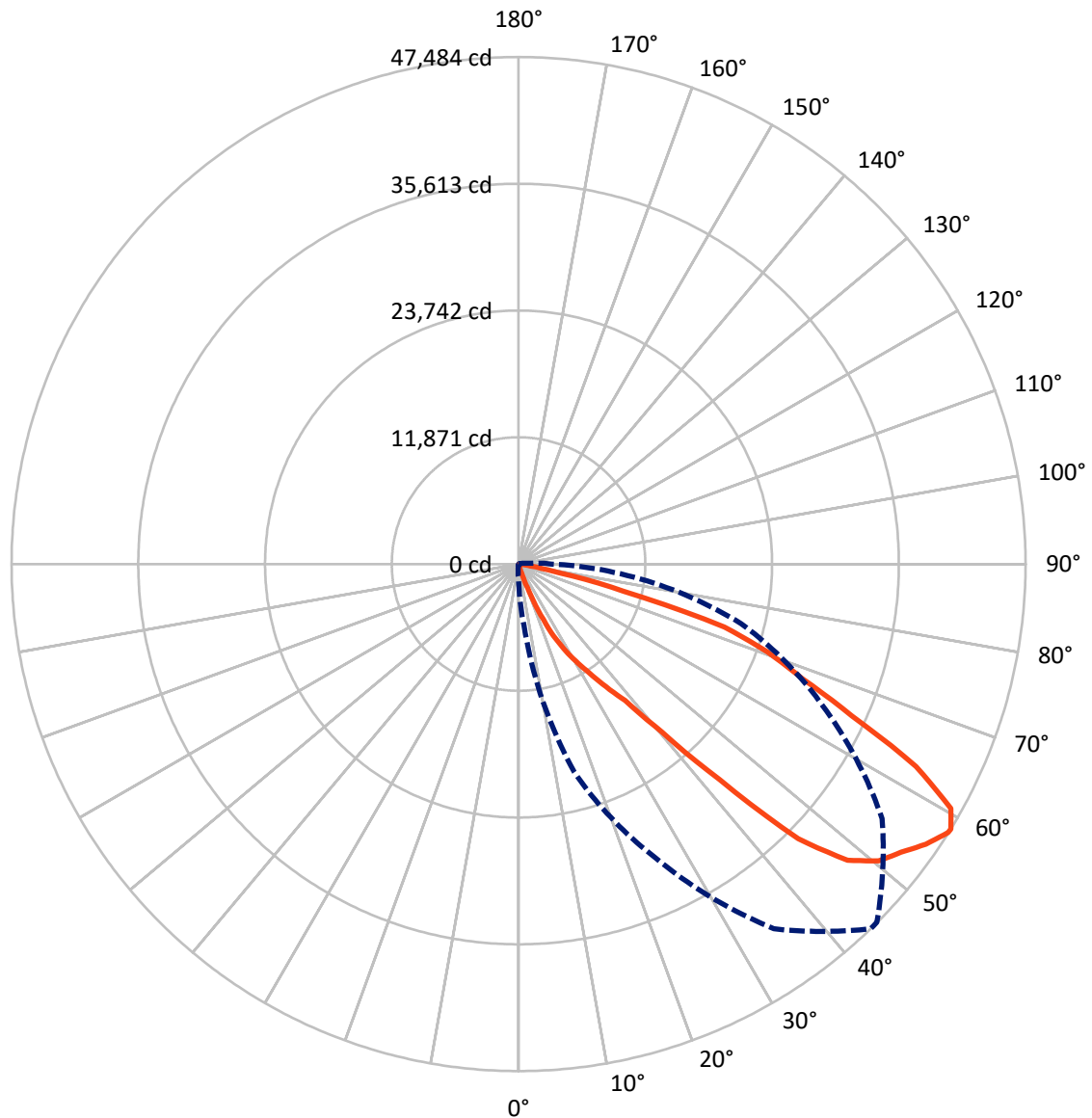


Based on 20 foot mounting height. Maximum calculated value = 32.2 fc  
 Type III - Short - N/A

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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    | 126.4    | 0.0    | 126.4   |
|                    | % Fixture | 0.7      | 0.0    | 0.7     |
| <b>Street Side</b> | Lumens    | 18383.2  | 0.0    | 18383.2 |
|                    | % Fixture | 99.3     | 0.0    | 99.3    |
| <b>Total</b>       | Lumens    | 18509.5  | 0.0    | 18509.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 7.2     | 0.0       |
| 10°-20°   | 40.6    | 0.2       |
| 20°-30°   | 438.5   | 2.4       |
| 30°-40°   | 1296.8  | 7.0       |
| 40°-50°   | 3865.1  | 20.9      |
| 50°-60°   | 6133.0  | 33.1      |
| 60°-70°   | 5115.6  | 27.6      |
| 70°-80°   | 1577.7  | 8.5       |
| 80°-90°   | 35.0    | 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°    | 18509.5 | 100.0     |
| 0°-180°   | 18509.5 | 100.0     |



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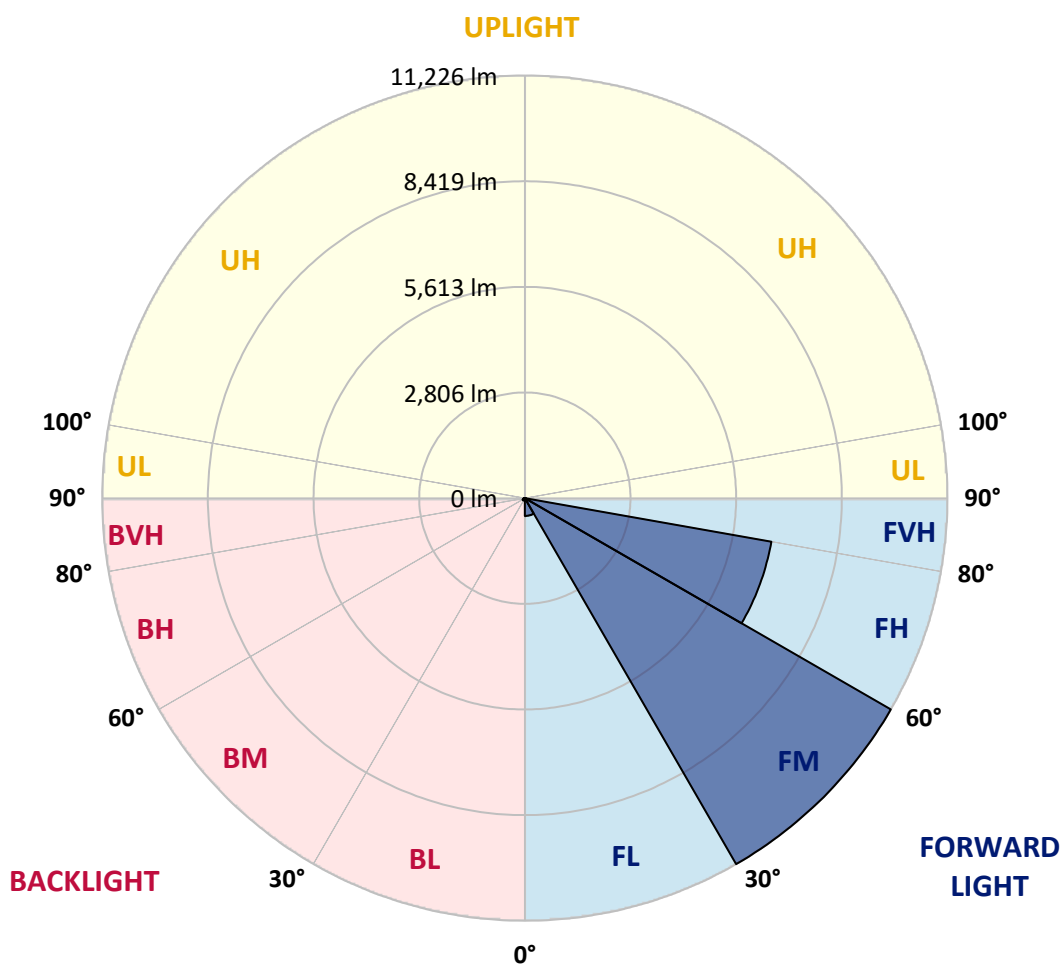
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 474.0   | 2.6       |                         |      |         |
| FM   | (30°-60°)   | 11225.6 | 60.6      |                         |      |         |
| FH   | (60°-80°)   | 6650.2  | 35.9      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 33.4    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 12.4    | 0.1       | B0/110                  |      |         |
| BM   | (30°-60°)   | 69.2    | 0.4       | B0/220                  |      |         |
| BH   | (60°-80°)   | 43.1    | 0.2       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 1.7     | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G3**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°     | 25°     | 35°     | 44°     | 45°     | 55°     | 65°     | 75°     |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 81.1   | 81.1   | 81.1    | 81.1    | 81.1    | 81.1    | 81.1    | 81.1    | 81.1    | 81.1    |
| 2.5°  | 104.9  | 104.9  | 100.7   | 95.1    | 89.5    | 83.9    | 82.5    | 79.7    | 78.3    | 76.9    |
| 5°    | 109.1  | 109.1  | 107.7   | 103.5   | 97.9    | 93.7    | 93.7    | 89.5    | 86.7    | 83.9    |
| 7.5°  | 111.9  | 113.3  | 116.1   | 114.7   | 111.9   | 107.7   | 107.7   | 104.9   | 100.7   | 93.7    |
| 10°   | 116.1  | 120.2  | 125.8   | 128.6   | 130.0   | 130.0   | 128.6   | 127.2   | 120.2   | 110.5   |
| 12.5° | 120.2  | 128.6  | 142.6   | 156.6   | 165.0   | 176.2   | 174.8   | 172.0   | 153.8   | 132.8   |
| 15°   | 128.6  | 141.2  | 170.6   | 211.1   | 274.1   | 313.2   | 328.6   | 314.6   | 254.5   | 179.0   |
| 17.5° | 138.4  | 159.4  | 247.5   | 441.8   | 724.3   | 858.5   | 939.6   | 873.9   | 578.9   | 339.8   |
| 20°   | 148.2  | 194.4  | 460.0   | 1145.2  | 1879.2  | 2318.3  | 2439.9  | 2249.8  | 1444.4  | 647.4   |
| 22.5° | 165.0  | 272.7  | 932.6   | 2367.2  | 4049.3  | 4707.9  | 4832.3  | 4224.1  | 2728.0  | 1278.0  |
| 25°   | 199.9  | 395.7  | 1608.0  | 3857.7  | 6043.2  | 7154.8  | 7103.1  | 6306.1  | 4425.4  | 2041.4  |
| 27.5° | 250.3  | 576.1  | 2431.5  | 5481.1  | 7953.2  | 8933.3  | 9050.8  | 8065.0  | 5899.2  | 3002.0  |
| 30°   | 323.0  | 798.4  | 3315.2  | 6781.5  | 9484.2  | 10544.1 | 10563.7 | 9544.4  | 7217.7  | 3845.2  |
| 32.5° | 392.9  | 1008.1 | 4088.4  | 8038.5  | 10992.9 | 12154.9 | 12241.6 | 10987.4 | 8202.1  | 4723.2  |
| 35°   | 446.0  | 1145.2 | 4871.5  | 9143.1  | 12514.2 | 14115.2 | 14109.6 | 12620.5 | 9368.2  | 5507.7  |
| 37.5° | 450.2  | 1282.2 | 5580.4  | 10272.9 | 14441.0 | 16233.5 | 16411.1 | 14769.6 | 10777.6 | 6478.0  |
| 40°   | 440.4  | 1436.0 | 6478.0  | 12034.6 | 17912.8 | 20663.2 | 20819.8 | 18750.4 | 13604.9 | 8139.1  |
| 42.5° | 451.6  | 1703.1 | 7935.0  | 15288.3 | 23677.8 | 27627.8 | 27929.8 | 25754.2 | 18802.1 | 11528.5 |
| 45°   | 510.4  | 2205.0 | 10987.4 | 20731.7 | 31895.2 | 36710.7 | 36610.1 | 33476.6 | 24849.5 | 16688.0 |
| 47.5° | 704.7  | 3434.1 | 15512.1 | 26029.6 | 37147.0 | 41435.4 | 41522.1 | 37692.3 | 28378.6 | 20654.8 |
| 50°   | 1083.6 | 5254.6 | 19313.9 | 28830.3 | 39405.2 | 43707.5 | 43626.4 | 39201.0 | 29719.6 | 22608.1 |
| 52.5° | 1409.4 | 6571.7 | 21221.1 | 29813.2 | 39694.6 | 44830.3 | 44824.7 | 39598.1 | 29927.9 | 22775.9 |
| 55°   | 1490.5 | 6671.0 | 21236.4 | 29866.4 | 40343.4 | 46299.9 | 46484.4 | 40575.5 | 30197.8 | 22043.2 |
| 57.5° | 1458.4 | 5906.2 | 20350.0 | 30174.0 | 41498.3 | 47436.6 | 47446.4 | 41522.1 | 30882.9 | 21594.4 |
| 58°   | 1430.4 | 5785.9 | 20171.0 | 30348.8 | 41696.9 | 47484.2 | 47460.4 | 41565.4 | 31440.8 | 21577.6 |
| 60°   | 1273.8 | 5023.9 | 19473.3 | 30794.8 | 41401.8 | 46508.2 | 46285.9 | 40618.8 | 31358.3 | 21405.6 |
| 62.5° | 1001.1 | 3919.3 | 18786.7 | 30278.8 | 38239.0 | 41783.6 | 41875.8 | 35961.3 | 28587.0 | 20403.1 |
| 65°   | 797.0  | 2920.9 | 17354.9 | 26559.5 | 31488.3 | 34312.8 | 34656.7 | 29242.8 | 23860.9 | 17276.6 |
| 67.5° | 634.8  | 2111.3 | 14558.5 | 21145.6 | 24916.6 | 28637.3 | 28887.6 | 24551.7 | 18486.1 | 13237.1 |
| 70°   | 515.9  | 1427.6 | 10049.1 | 15464.5 | 20551.3 | 24734.8 | 24750.2 | 20396.1 | 13797.8 | 8673.3  |
| 72.5° | 457.2  | 988.6  | 5833.4  | 11278.2 | 16664.2 | 20155.6 | 19748.7 | 16550.9 | 10604.2 | 5137.1  |
| 75°   | 395.7  | 655.8  | 2860.8  | 6894.7  | 10103.7 | 10172.2 | 10327.4 | 7677.7  | 5300.7  | 2442.7  |
| 77.5° | 325.8  | 465.6  | 1127.0  | 1883.4  | 3030.0  | 3878.7  | 4022.7  | 3048.2  | 1763.2  | 601.2   |
| 80°   | 223.7  | 220.9  | 303.4   | 577.5   | 866.9   | 1086.4  | 1013.7  | 784.4   | 461.4   | 230.7   |
| 82.5° | 96.5   | 104.9  | 137.0   | 165.0   | 134.2   | 130.0   | 124.4   | 79.7    | 61.5    | 47.5    |
| 85°   | 30.8   | 28.0   | 29.4    | 29.4    | 23.8    | 18.2    | 18.2    | 8.4     | 0.0     | 0.0     |
| 87.5° | 15.4   | 12.6   | 12.6    | 11.2    | 7.0     | 2.8     | 1.4     | 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° |
|---------|-------|--------|-------|-------|------|------|------|------|------|------|------|
| 81.1    | 0°    | 81.1   | 81.1  | 81.1  | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 |
| 75.5    | 2.5°  | 74.1   | 74.1  | 71.3  | 68.5 | 67.1 | 64.3 | 62.9 | 61.5 | 60.1 | 58.7 |
| 81.1    | 5°    | 78.3   | 76.9  | 72.7  | 68.5 | 64.3 | 60.1 | 57.3 | 54.5 | 51.7 | 50.3 |
| 89.5    | 7.5°  | 85.3   | 82.5  | 74.1  | 67.1 | 61.5 | 55.9 | 53.1 | 48.9 | 46.1 | 41.9 |
| 99.3    | 10°   | 93.7   | 88.1  | 76.9  | 68.5 | 60.1 | 53.1 | 48.9 | 44.7 | 40.5 | 35.0 |
| 113.3   | 12.5° | 104.9  | 95.1  | 81.1  | 67.1 | 57.3 | 48.9 | 44.7 | 39.2 | 35.0 | 30.8 |
| 131.4   | 15°   | 114.7  | 102.1 | 82.5  | 67.1 | 54.5 | 44.7 | 39.2 | 33.6 | 29.4 | 23.8 |
| 165.0   | 17.5° | 128.6  | 107.7 | 81.1  | 62.9 | 50.3 | 39.2 | 33.6 | 29.4 | 22.4 | 14.0 |
| 244.7   | 20°   | 152.4  | 111.9 | 78.3  | 58.7 | 43.3 | 32.2 | 25.2 | 19.6 | 9.8  | 2.8  |
| 367.7   | 22.5° | 190.2  | 123.0 | 75.5  | 53.1 | 37.8 | 25.2 | 16.8 | 7.0  | 0.0  | 0.0  |
| 559.3   | 25°   | 262.9  | 142.6 | 75.5  | 50.3 | 33.6 | 18.2 | 5.6  | 0.0  | 0.0  | 0.0  |
| 794.2   | 27.5° | 349.6  | 169.2 | 75.5  | 43.3 | 26.6 | 9.8  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1082.2  | 30°   | 437.6  | 198.5 | 75.5  | 37.8 | 21.0 | 1.4  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1332.5  | 32.5° | 521.5  | 223.7 | 76.9  | 32.2 | 14.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1679.3  | 35°   | 606.8  | 227.9 | 75.5  | 28.0 | 8.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2104.3  | 37.5° | 715.9  | 219.5 | 71.3  | 25.2 | 4.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2768.5  | 40°   | 880.9  | 223.7 | 67.1  | 23.8 | 1.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 3952.8  | 42.5° | 1185.7 | 241.9 | 61.5  | 23.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 6296.3  | 45°   | 2049.8 | 324.4 | 55.9  | 25.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 9452.1  | 47.5° | 3390.7 | 583.1 | 54.5  | 25.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 11385.9 | 50°   | 4327.5 | 734.1 | 57.3  | 26.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 11627.7 | 52.5° | 4320.6 | 818.0 | 60.1  | 28.0 | 5.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 10717.5 | 55°   | 3841.0 | 833.3 | 64.3  | 30.8 | 18.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 9210.2  | 57.5° | 3210.4 | 760.6 | 74.1  | 37.8 | 33.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 8973.9  | 58°   | 3098.5 | 727.1 | 76.9  | 39.2 | 36.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 7784.0  | 60°   | 2539.2 | 592.9 | 97.9  | 48.9 | 48.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 6381.6  | 62.5° | 1753.4 | 517.3 | 111.9 | 62.9 | 50.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 4705.1  | 65°   | 1240.2 | 467.0 | 121.6 | 67.1 | 40.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 3343.2  | 67.5° | 927.0  | 430.7 | 134.2 | 68.5 | 21.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2097.4  | 70°   | 710.3  | 404.1 | 165.0 | 72.7 | 5.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1250.0  | 72.5° | 578.9  | 373.3 | 199.9 | 75.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 749.5   | 75°   | 479.6  | 337.0 | 193.0 | 82.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 399.9   | 77.5° | 318.8  | 261.5 | 176.2 | 82.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.6   | 80°   | 111.9  | 103.5 | 137.0 | 72.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 29.4    | 82.5° | 16.8   | 14.0  | 19.6  | 25.2 | 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° |
|------|-------|------|------|------|------|------|------|------|------|------|------|
| 81.1 | 0°    | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 |
| 57.3 | 2.5°  | 57.3 | 57.3 | 55.9 | 57.3 | 57.3 | 60.1 | 67.1 | 76.9 | 88.1 | 92.3 |
| 48.9 | 5°    | 47.5 | 46.1 | 44.7 | 44.7 | 44.7 | 48.9 | 54.5 | 65.7 | 78.3 | 83.9 |
| 40.5 | 7.5°  | 39.2 | 37.8 | 36.4 | 35.0 | 35.0 | 37.8 | 44.7 | 57.3 | 69.9 | 75.5 |
| 33.6 | 10°   | 32.2 | 29.4 | 28.0 | 26.6 | 26.6 | 29.4 | 36.4 | 48.9 | 62.9 | 68.5 |
| 28.0 | 12.5° | 26.6 | 22.4 | 19.6 | 18.2 | 16.8 | 21.0 | 28.0 | 39.2 | 54.5 | 61.5 |
| 21.0 | 15°   | 18.2 | 14.0 | 9.8  | 8.4  | 7.0  | 11.2 | 18.2 | 30.8 | 46.1 | 54.5 |
| 11.2 | 17.5° | 9.8  | 4.2  | 1.4  | 0.0  | 0.0  | 2.8  | 8.4  | 22.4 | 37.8 | 44.7 |
| 0.0  | 20°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 11.2 | 28.0 | 35.0 |
| 0.0  | 22.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.4  | 16.8 | 23.8 |
| 0.0  | 25°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.0  | 12.6 |
| 0.0  | 27.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.8  |
| 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  | 4.2  |
| 0.0  | 87.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.6  | 11.2 |
| 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: P1065474

CATALOG NUMBER: GLAN-SA5B-840-U-LBC

**CANDELA DISTRIBUTION (continued):**

| 275° |       | 285° | 295° | 305° | 315° | 316° | 325° | 335° | 345°  | 355°  | 360°   |
|------|-------|------|------|------|------|------|------|------|-------|-------|--------|
| 81.1 | 0°    | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1  | 81.1  | 81.1   |
| 96.5 | 2.5°  | 99.3 | 97.9 | 95.1 | 92.3 | 92.3 | 92.3 | 96.5 | 100.7 | 104.9 | 104.9  |
| 86.7 | 5°    | 92.3 | 92.3 | 90.9 | 88.1 | 88.1 | 89.5 | 95.1 | 102.1 | 107.7 | 109.1  |
| 79.7 | 7.5°  | 85.3 | 88.1 | 85.3 | 83.9 | 85.3 | 86.7 | 92.3 | 100.7 | 109.1 | 111.9  |
| 74.1 | 10°   | 81.1 | 82.5 | 82.5 | 81.1 | 81.1 | 83.9 | 89.5 | 100.7 | 111.9 | 116.1  |
| 67.1 | 12.5° | 75.5 | 78.3 | 76.9 | 76.9 | 76.9 | 79.7 | 86.7 | 99.3  | 114.7 | 120.2  |
| 60.1 | 15°   | 69.9 | 74.1 | 74.1 | 72.7 | 72.7 | 74.1 | 83.9 | 97.9  | 118.9 | 128.6  |
| 51.7 | 17.5° | 64.3 | 68.5 | 69.9 | 67.1 | 67.1 | 69.9 | 79.7 | 97.9  | 121.6 | 138.4  |
| 41.9 | 20°   | 53.1 | 60.1 | 64.3 | 60.1 | 60.1 | 62.9 | 72.7 | 92.3  | 123.0 | 148.2  |
| 30.8 | 22.5° | 41.9 | 48.9 | 54.5 | 53.1 | 53.1 | 54.5 | 67.1 | 88.1  | 124.4 | 165.0  |
| 18.2 | 25°   | 30.8 | 37.8 | 41.9 | 44.7 | 44.7 | 48.9 | 61.5 | 85.3  | 130.0 | 199.9  |
| 8.4  | 27.5° | 18.2 | 26.6 | 32.2 | 35.0 | 36.4 | 41.9 | 57.3 | 82.5  | 139.8 | 250.3  |
| 0.0  | 30°   | 8.4  | 15.4 | 22.4 | 28.0 | 28.0 | 37.8 | 53.1 | 79.7  | 152.4 | 323.0  |
| 0.0  | 32.5° | 0.0  | 7.0  | 11.2 | 19.6 | 21.0 | 30.8 | 48.9 | 76.9  | 170.6 | 392.9  |
| 0.0  | 35°   | 0.0  | 0.0  | 5.6  | 15.4 | 15.4 | 25.2 | 44.7 | 74.1  | 198.5 | 446.0  |
| 0.0  | 37.5° | 0.0  | 0.0  | 0.0  | 11.2 | 12.6 | 22.4 | 43.3 | 72.7  | 204.1 | 450.2  |
| 0.0  | 40°   | 0.0  | 0.0  | 0.0  | 8.4  | 9.8  | 21.0 | 43.3 | 74.1  | 184.6 | 440.4  |
| 0.0  | 42.5° | 0.0  | 0.0  | 0.0  | 5.6  | 7.0  | 21.0 | 43.3 | 76.9  | 166.4 | 451.6  |
| 0.0  | 45°   | 0.0  | 0.0  | 0.0  | 4.2  | 5.6  | 22.4 | 41.9 | 75.5  | 156.6 | 510.4  |
| 0.0  | 47.5° | 0.0  | 0.0  | 0.0  | 5.6  | 8.4  | 22.4 | 40.5 | 74.1  | 158.0 | 704.7  |
| 0.0  | 50°   | 0.0  | 0.0  | 0.0  | 7.0  | 9.8  | 22.4 | 41.9 | 71.3  | 173.4 | 1083.6 |
| 0.0  | 52.5° | 0.0  | 0.0  | 0.0  | 5.6  | 8.4  | 25.2 | 46.1 | 69.9  | 188.8 | 1409.4 |
| 0.0  | 55°   | 0.0  | 0.0  | 0.0  | 1.4  | 4.2  | 32.2 | 50.3 | 69.9  | 212.5 | 1490.5 |
| 0.0  | 57.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 36.4 | 57.3 | 74.1  | 251.7 | 1458.4 |
| 0.0  | 58°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 36.4 | 58.7 | 74.1  | 254.5 | 1430.4 |
| 0.0  | 60°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 36.4 | 64.3 | 82.5  | 274.1 | 1273.8 |
| 0.0  | 62.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 30.8 | 76.9 | 103.5 | 285.2 | 1001.1 |
| 0.0  | 65°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 25.2 | 90.9 | 113.3 | 293.6 | 797.0  |
| 0.0  | 67.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 23.8 | 93.7 | 114.7 | 297.8 | 634.8  |
| 0.0  | 70°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 25.2 | 92.3 | 123.0 | 311.8 | 515.9  |
| 0.0  | 72.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 28.0 | 83.9 | 135.6 | 311.8 | 457.2  |
| 0.0  | 75°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 29.4 | 78.3 | 152.4 | 283.8 | 395.7  |
| 0.0  | 77.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 28.0 | 76.9 | 177.6 | 253.1 | 325.8  |
| 0.0  | 80°   | 2.8  | 4.2  | 4.2  | 2.8  | 2.8  | 23.8 | 75.5 | 180.4 | 215.3 | 223.7  |
| 1.4  | 82.5° | 8.4  | 11.2 | 9.8  | 7.0  | 7.0  | 21.0 | 67.1 | 151.0 | 111.9 | 96.5   |
| 8.4  | 85°   | 15.4 | 18.2 | 18.2 | 15.4 | 15.4 | 19.6 | 41.9 | 54.5  | 37.8  | 30.8   |
| 15.4 | 87.5° | 21.0 | 23.8 | 23.8 | 21.0 | 21.0 | 19.6 | 18.2 | 16.8  | 15.4  | 15.4   |
| 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: SP1-2407-184-11

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-840-U-5WQ

Data in this report applies to families of products including GSS-SB1A-840-U-5WQ

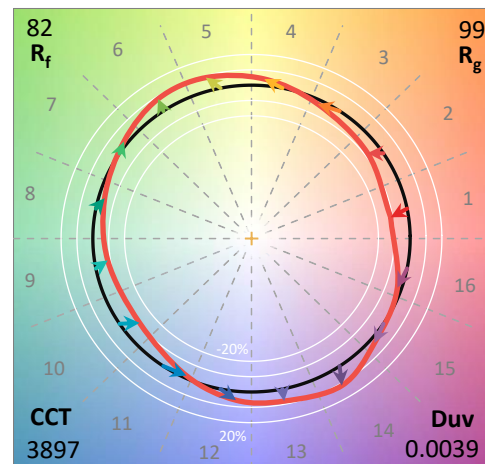
### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2407-184-11  
 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-840-U-5WQ**  
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 4000K CCT 26 LEDS

### Spectral Parameters

CCT (K): 3897  
 CIE  $u'$ : 0.2249  
 CIE  $v'$ : 0.5084  
 Duv: 0.0039  
 CIE x: 0.3882  
 CIE y: 0.3900  
 CIE z: 0.2218  
 Peak Wavelength (nm): 445  
 Dominant Wavelength (nm): 577  
 Purity: 33.54925  
 R<sub>f</sub>: 81.8  
 R<sub>g</sub>: 98.6

CRI (Ra): 80.2  
 R1: 78.9  
 R2: 83.5  
 R3: 88.3  
 R4: 82.1  
 R5: 78.8  
 R6: 78.4  
 R7: 85.8  
 R8: 65.8  
 R9: 6.7  
 R10: 61.9  
 R11: 81.9  
 R12: 58.9  
 R13: 79.2  
 R14: 93.2  
 R15: 71.9



### Test Conditions

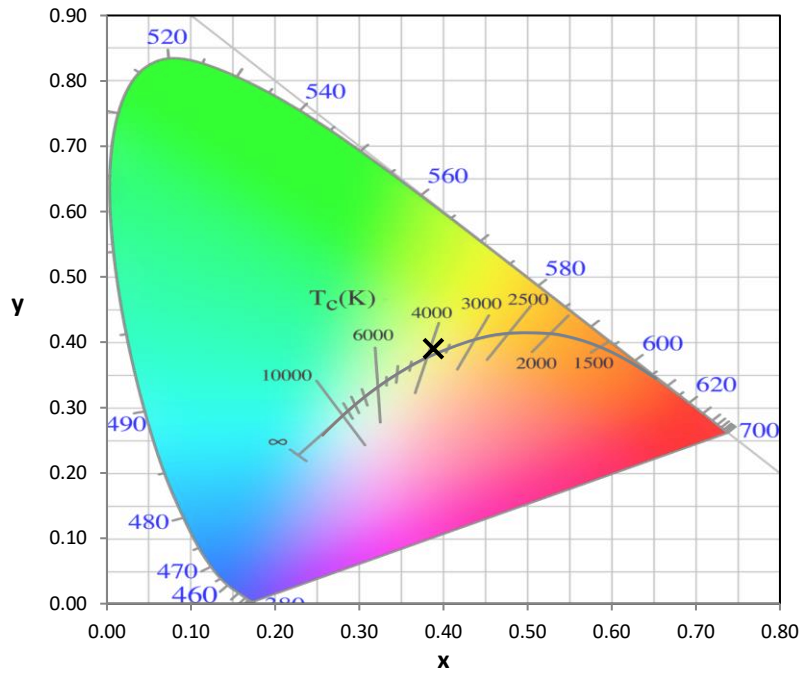
Stabilization Time: 24M  
 Operation Time: 1H 24M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-11

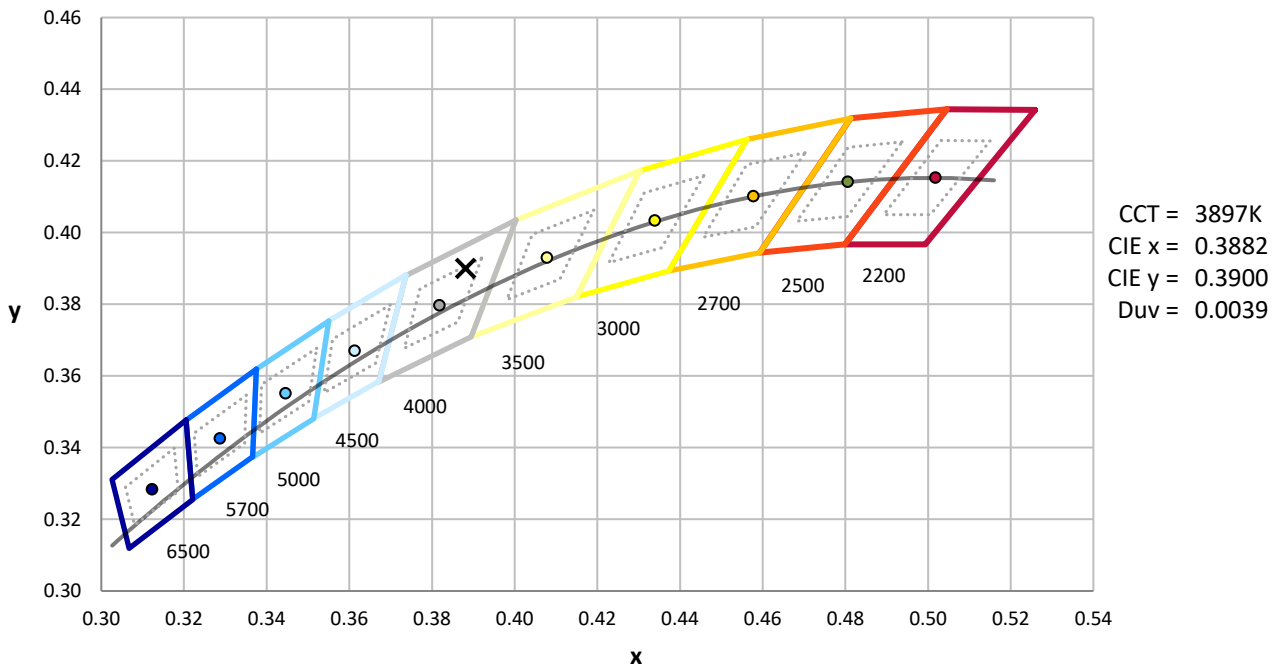
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| 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: SP1-2407-184-11

**CIE 1931 Chromaticity Diagram**



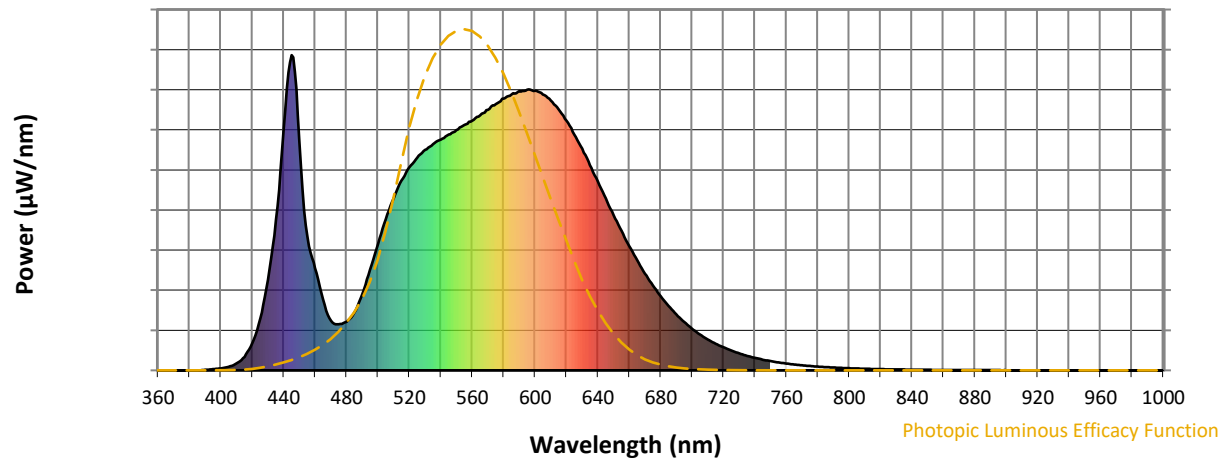
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-11

### Photopic Flux vs. Wavelength

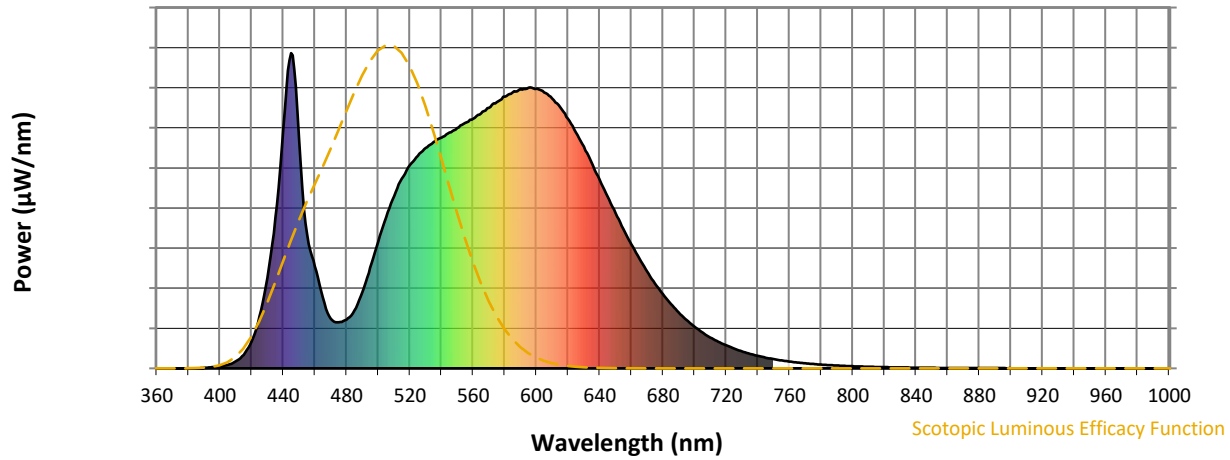


### Photopic Lumens: NR

| λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) |
|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|
| 360       | 0                           | NR               | 490       | 242                         | NR               | 620       | 792                         | NR               | 750       | 29                          | NR               | 880       | 1                           | NR               |
| 365       | 0                           | NR               | 495       | 320                         | NR               | 625       | 748                         | NR               | 755       | 25                          | NR               | 885       | 1                           | NR               |
| 370       | 0                           | NR               | 500       | 401                         | NR               | 630       | 703                         | NR               | 760       | 22                          | NR               | 890       | 1                           | NR               |
| 375       | 0                           | NR               | 505       | 479                         | NR               | 635       | 651                         | NR               | 765       | 19                          | NR               | 895       | 1                           | NR               |
| 380       | 0                           | NR               | 510       | 546                         | NR               | 640       | 599                         | NR               | 770       | 16                          | NR               | 900       | 1                           | NR               |
| 385       | 0                           | NR               | 515       | 602                         | NR               | 645       | 545                         | NR               | 775       | 14                          | NR               | 905       | 0                           | NR               |
| 390       | 2                           | NR               | 520       | 645                         | NR               | 650       | 493                         | NR               | 780       | 12                          | NR               | 910       | 0                           | NR               |
| 395       | 4                           | NR               | 525       | 674                         | NR               | 655       | 443                         | NR               | 785       | 10                          | NR               | 915       | 0                           | NR               |
| 400       | 6                           | NR               | 530       | 699                         | NR               | 660       | 394                         | NR               | 790       | 9                           | NR               | 920       | 0                           | NR               |
| 405       | 11                          | NR               | 535       | 718                         | NR               | 665       | 349                         | NR               | 795       | 8                           | NR               | 925       | 0                           | NR               |
| 410       | 22                          | NR               | 540       | 732                         | NR               | 670       | 307                         | NR               | 800       | 7                           | NR               | 930       | 0                           | NR               |
| 415       | 43                          | NR               | 545       | 749                         | NR               | 675       | 269                         | NR               | 805       | 6                           | NR               | 935       | 0                           | NR               |
| 420       | 86                          | NR               | 550       | 762                         | NR               | 680       | 235                         | NR               | 810       | 5                           | NR               | 940       | 0                           | NR               |
| 425       | 164                         | NR               | 555       | 778                         | NR               | 685       | 204                         | NR               | 815       | 5                           | NR               | 945       | 0                           | NR               |
| 430       | 288                         | NR               | 560       | 792                         | NR               | 690       | 178                         | NR               | 820       | 4                           | NR               | 950       | 0                           | NR               |
| 435       | 478                         | NR               | 565       | 809                         | NR               | 695       | 153                         | NR               | 825       | 3                           | NR               | 955       | 0                           | NR               |
| 440       | 766                         | NR               | 570       | 827                         | NR               | 700       | 132                         | NR               | 830       | 3                           | NR               | 960       | 0                           | NR               |
| 445       | 1000                        | NR               | 575       | 845                         | NR               | 705       | 114                         | NR               | 835       | 3                           | NR               | 965       | 0                           | NR               |
| 450       | 726                         | NR               | 580       | 862                         | NR               | 710       | 98                          | NR               | 840       | 2                           | NR               | 970       | 0                           | NR               |
| 455       | 425                         | NR               | 585       | 875                         | NR               | 715       | 84                          | NR               | 845       | 2                           | NR               | 975       | 0                           | NR               |
| 460       | 324                         | NR               | 590       | 887                         | NR               | 720       | 73                          | NR               | 850       | 2                           | NR               | 980       | 0                           | NR               |
| 465       | 225                         | NR               | 595       | 890                         | NR               | 725       | 63                          | NR               | 855       | 1                           | NR               | 985       | 0                           | NR               |
| 470       | 157                         | NR               | 600       | 887                         | NR               | 730       | 54                          | NR               | 860       | 1                           | NR               | 990       | 0                           | NR               |
| 475       | 147                         | NR               | 605       | 875                         | NR               | 735       | 46                          | NR               | 865       | 1                           | NR               | 995       | 0                           | NR               |
| 480       | 154                         | NR               | 610       | 856                         | NR               | 740       | 40                          | NR               | 870       | 1                           | NR               | 1000      | 0                           | NR               |
| 485       | 184                         | NR               | 615       | 828                         | NR               | 745       | 34                          | NR               | 875       | 1                           | NR               |           |                             |                  |

REPORT NUMBER: SP1-2407-184-11

### Scotopic Flux vs. Wavelength



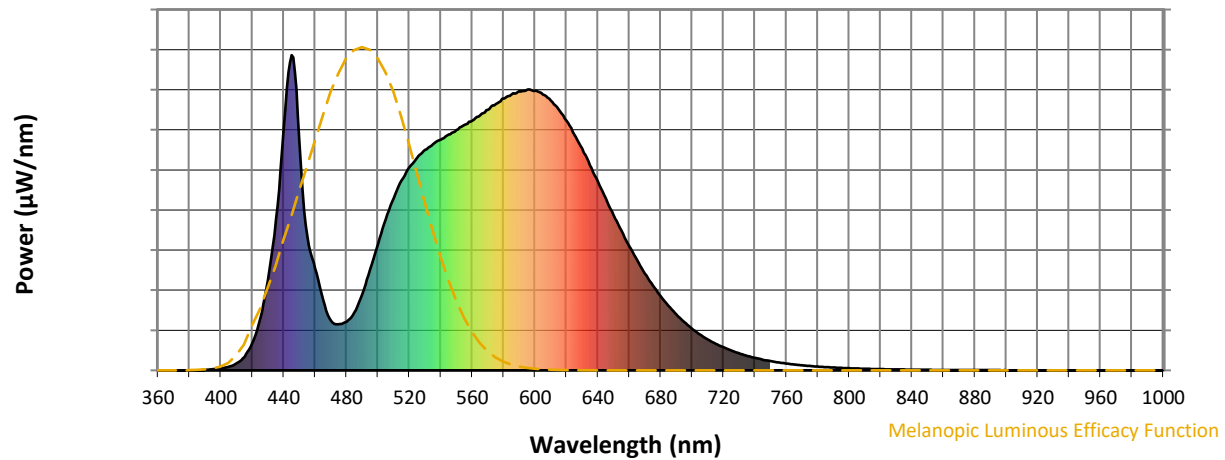
Scotopic Lumens: NR

S/P: 1.57

| $\lambda$<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               | 242                                  | NR                             | 620               | 792                                  | NR                             | 750               | 29                                   | NR                             | 880               | 1                                    | NR                             |
| 365               | 0                                    | NR                             | 495               | 320                                  | NR                             | 625               | 748                                  | NR                             | 755               | 25                                   | NR                             | 885               | 1                                    | NR                             |
| 370               | 0                                    | NR                             | 500               | 401                                  | NR                             | 630               | 703                                  | NR                             | 760               | 22                                   | NR                             | 890               | 1                                    | NR                             |
| 375               | 0                                    | NR                             | 505               | 479                                  | NR                             | 635               | 651                                  | NR                             | 765               | 19                                   | NR                             | 895               | 1                                    | NR                             |
| 380               | 0                                    | NR                             | 510               | 546                                  | NR                             | 640               | 599                                  | NR                             | 770               | 16                                   | NR                             | 900               | 1                                    | NR                             |
| 385               | 0                                    | NR                             | 515               | 602                                  | NR                             | 645               | 545                                  | NR                             | 775               | 14                                   | NR                             | 905               | 0                                    | NR                             |
| 390               | 2                                    | NR                             | 520               | 645                                  | NR                             | 650               | 493                                  | NR                             | 780               | 12                                   | NR                             | 910               | 0                                    | NR                             |
| 395               | 4                                    | NR                             | 525               | 674                                  | NR                             | 655               | 443                                  | NR                             | 785               | 10                                   | NR                             | 915               | 0                                    | NR                             |
| 400               | 6                                    | NR                             | 530               | 699                                  | NR                             | 660               | 394                                  | NR                             | 790               | 9                                    | NR                             | 920               | 0                                    | NR                             |
| 405               | 11                                   | NR                             | 535               | 718                                  | NR                             | 665               | 349                                  | NR                             | 795               | 8                                    | NR                             | 925               | 0                                    | NR                             |
| 410               | 22                                   | NR                             | 540               | 732                                  | NR                             | 670               | 307                                  | NR                             | 800               | 7                                    | NR                             | 930               | 0                                    | NR                             |
| 415               | 43                                   | NR                             | 545               | 749                                  | NR                             | 675               | 269                                  | NR                             | 805               | 6                                    | NR                             | 935               | 0                                    | NR                             |
| 420               | 86                                   | NR                             | 550               | 762                                  | NR                             | 680               | 235                                  | NR                             | 810               | 5                                    | NR                             | 940               | 0                                    | NR                             |
| 425               | 164                                  | NR                             | 555               | 778                                  | NR                             | 685               | 204                                  | NR                             | 815               | 5                                    | NR                             | 945               | 0                                    | NR                             |
| 430               | 288                                  | NR                             | 560               | 792                                  | NR                             | 690               | 178                                  | NR                             | 820               | 4                                    | NR                             | 950               | 0                                    | NR                             |
| 435               | 478                                  | NR                             | 565               | 809                                  | NR                             | 695               | 153                                  | NR                             | 825               | 3                                    | NR                             | 955               | 0                                    | NR                             |
| 440               | 766                                  | NR                             | 570               | 827                                  | NR                             | 700               | 132                                  | NR                             | 830               | 3                                    | NR                             | 960               | 0                                    | NR                             |
| 445               | 1000                                 | NR                             | 575               | 845                                  | NR                             | 705               | 114                                  | NR                             | 835               | 3                                    | NR                             | 965               | 0                                    | NR                             |
| 450               | 726                                  | NR                             | 580               | 862                                  | NR                             | 710               | 98                                   | NR                             | 840               | 2                                    | NR                             | 970               | 0                                    | NR                             |
| 455               | 425                                  | NR                             | 585               | 875                                  | NR                             | 715               | 84                                   | NR                             | 845               | 2                                    | NR                             | 975               | 0                                    | NR                             |
| 460               | 324                                  | NR                             | 590               | 887                                  | NR                             | 720               | 73                                   | NR                             | 850               | 2                                    | NR                             | 980               | 0                                    | NR                             |
| 465               | 225                                  | NR                             | 595               | 890                                  | NR                             | 725               | 63                                   | NR                             | 855               | 1                                    | NR                             | 985               | 0                                    | NR                             |
| 470               | 157                                  | NR                             | 600               | 887                                  | NR                             | 730               | 54                                   | NR                             | 860               | 1                                    | NR                             | 990               | 0                                    | NR                             |
| 475               | 147                                  | NR                             | 605               | 875                                  | NR                             | 735               | 46                                   | NR                             | 865               | 1                                    | NR                             | 995               | 0                                    | NR                             |
| 480               | 154                                  | NR                             | 610               | 856                                  | NR                             | 740               | 40                                   | NR                             | 870               | 1                                    | NR                             | 1000              | 0                                    | NR                             |
| 485               | 184                                  | NR                             | 615               | 828                                  | NR                             | 745               | 34                                   | NR                             | 875               | 1                                    | NR                             |                   |                                      |                                |

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### Melanopic Flux vs. Wavelength


**Melanopic Lumens: NR**
**M/P: 3.06**

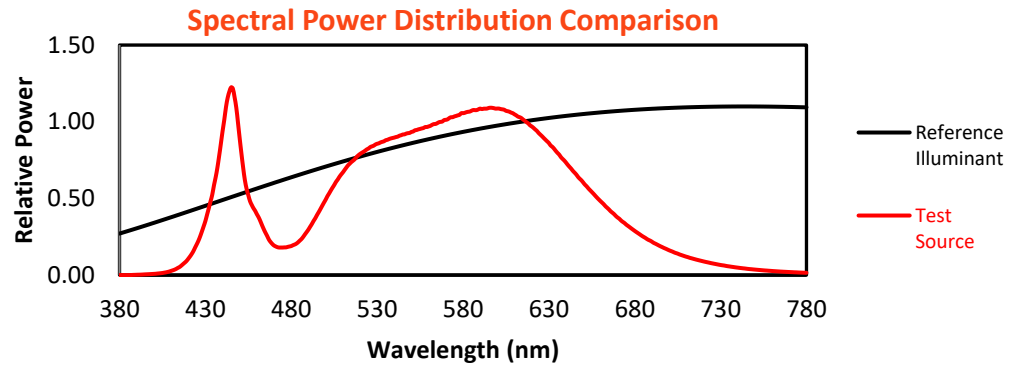
| $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<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               | 242                                  | NR                             | 620               | 792                                  | NR                             | 750               | 29                                   | NR                             | 880               | 1                                    | NR                             |
| 365               | 0                                    | NR                             | 495               | 320                                  | NR                             | 625               | 748                                  | NR                             | 755               | 25                                   | NR                             | 885               | 1                                    | NR                             |
| 370               | 0                                    | NR                             | 500               | 401                                  | NR                             | 630               | 703                                  | NR                             | 760               | 22                                   | NR                             | 890               | 1                                    | NR                             |
| 375               | 0                                    | NR                             | 505               | 479                                  | NR                             | 635               | 651                                  | NR                             | 765               | 19                                   | NR                             | 895               | 1                                    | NR                             |
| 380               | 0                                    | NR                             | 510               | 546                                  | NR                             | 640               | 599                                  | NR                             | 770               | 16                                   | NR                             | 900               | 1                                    | NR                             |
| 385               | 0                                    | NR                             | 515               | 602                                  | NR                             | 645               | 545                                  | NR                             | 775               | 14                                   | NR                             | 905               | 0                                    | NR                             |
| 390               | 2                                    | NR                             | 520               | 645                                  | NR                             | 650               | 493                                  | NR                             | 780               | 12                                   | NR                             | 910               | 0                                    | NR                             |
| 395               | 4                                    | NR                             | 525               | 674                                  | NR                             | 655               | 443                                  | NR                             | 785               | 10                                   | NR                             | 915               | 0                                    | NR                             |
| 400               | 6                                    | NR                             | 530               | 699                                  | NR                             | 660               | 394                                  | NR                             | 790               | 9                                    | NR                             | 920               | 0                                    | NR                             |
| 405               | 11                                   | NR                             | 535               | 718                                  | NR                             | 665               | 349                                  | NR                             | 795               | 8                                    | NR                             | 925               | 0                                    | NR                             |
| 410               | 22                                   | NR                             | 540               | 732                                  | NR                             | 670               | 307                                  | NR                             | 800               | 7                                    | NR                             | 930               | 0                                    | NR                             |
| 415               | 43                                   | NR                             | 545               | 749                                  | NR                             | 675               | 269                                  | NR                             | 805               | 6                                    | NR                             | 935               | 0                                    | NR                             |
| 420               | 86                                   | NR                             | 550               | 762                                  | NR                             | 680               | 235                                  | NR                             | 810               | 5                                    | NR                             | 940               | 0                                    | NR                             |
| 425               | 164                                  | NR                             | 555               | 778                                  | NR                             | 685               | 204                                  | NR                             | 815               | 5                                    | NR                             | 945               | 0                                    | NR                             |
| 430               | 288                                  | NR                             | 560               | 792                                  | NR                             | 690               | 178                                  | NR                             | 820               | 4                                    | NR                             | 950               | 0                                    | NR                             |
| 435               | 478                                  | NR                             | 565               | 809                                  | NR                             | 695               | 153                                  | NR                             | 825               | 3                                    | NR                             | 955               | 0                                    | NR                             |
| 440               | 766                                  | NR                             | 570               | 827                                  | NR                             | 700               | 132                                  | NR                             | 830               | 3                                    | NR                             | 960               | 0                                    | NR                             |
| 445               | 1000                                 | NR                             | 575               | 845                                  | NR                             | 705               | 114                                  | NR                             | 835               | 3                                    | NR                             | 965               | 0                                    | NR                             |
| 450               | 726                                  | NR                             | 580               | 862                                  | NR                             | 710               | 98                                   | NR                             | 840               | 2                                    | NR                             | 970               | 0                                    | NR                             |
| 455               | 425                                  | NR                             | 585               | 875                                  | NR                             | 715               | 84                                   | NR                             | 845               | 2                                    | NR                             | 975               | 0                                    | NR                             |
| 460               | 324                                  | NR                             | 590               | 887                                  | NR                             | 720               | 73                                   | NR                             | 850               | 2                                    | NR                             | 980               | 0                                    | NR                             |
| 465               | 225                                  | NR                             | 595               | 890                                  | NR                             | 725               | 63                                   | NR                             | 855               | 1                                    | NR                             | 985               | 0                                    | NR                             |
| 470               | 157                                  | NR                             | 600               | 887                                  | NR                             | 730               | 54                                   | NR                             | 860               | 1                                    | NR                             | 990               | 0                                    | NR                             |
| 475               | 147                                  | NR                             | 605               | 875                                  | NR                             | 735               | 46                                   | NR                             | 865               | 1                                    | NR                             | 995               | 0                                    | NR                             |
| 480               | 154                                  | NR                             | 610               | 856                                  | NR                             | 740               | 40                                   | NR                             | 870               | 1                                    | NR                             | 1000              | 0                                    | NR                             |
| 485               | 184                                  | NR                             | 615               | 828                                  | NR                             | 745               | 34                                   | NR                             | 875               | 1                                    | NR                             |                   |                                      |                                |

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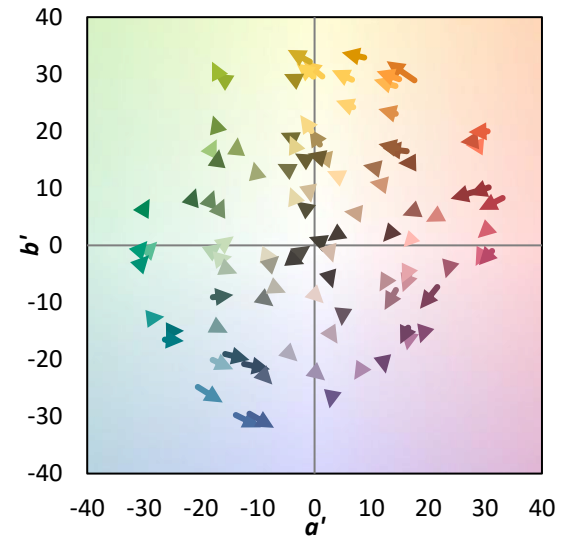
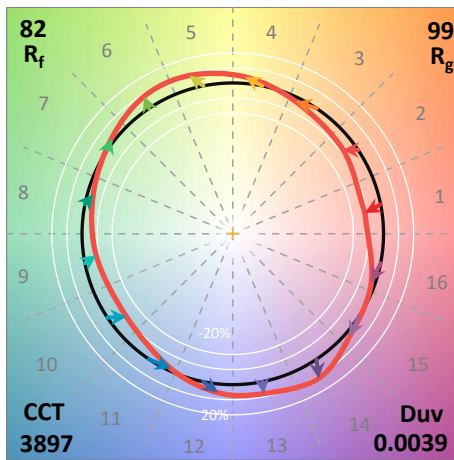
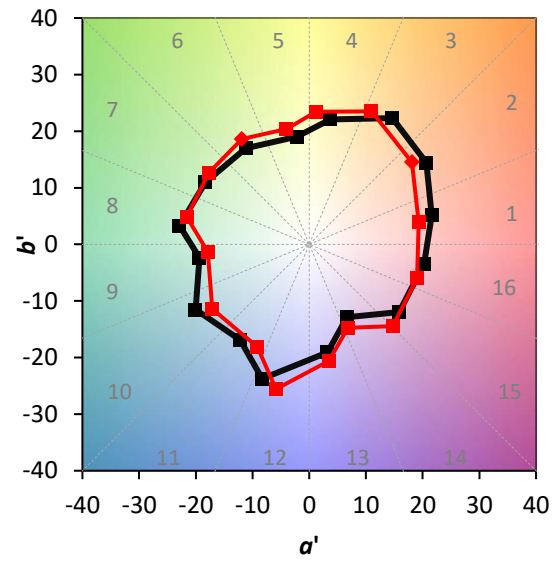
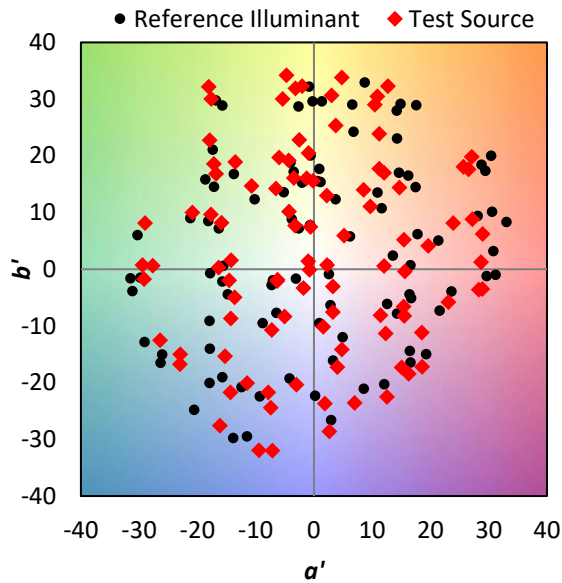
TM-30-18

### Summary

$R_f = 81.8$   
 $R_g = 98.6$   
 $CIE R_a = 80.2$   
 $R_9 = 6.7$

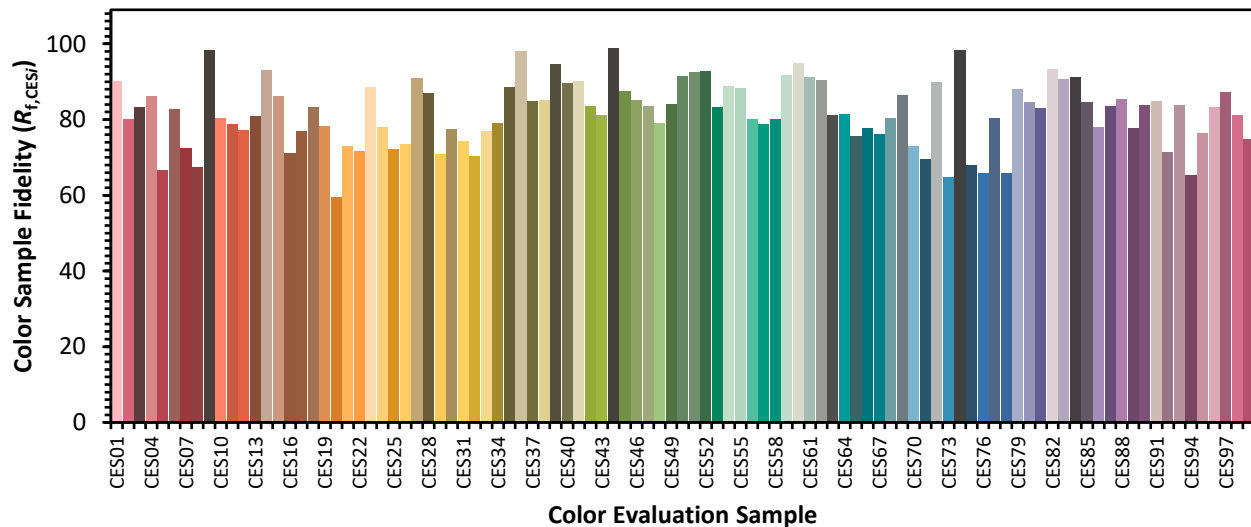


### Color Vector Graphics

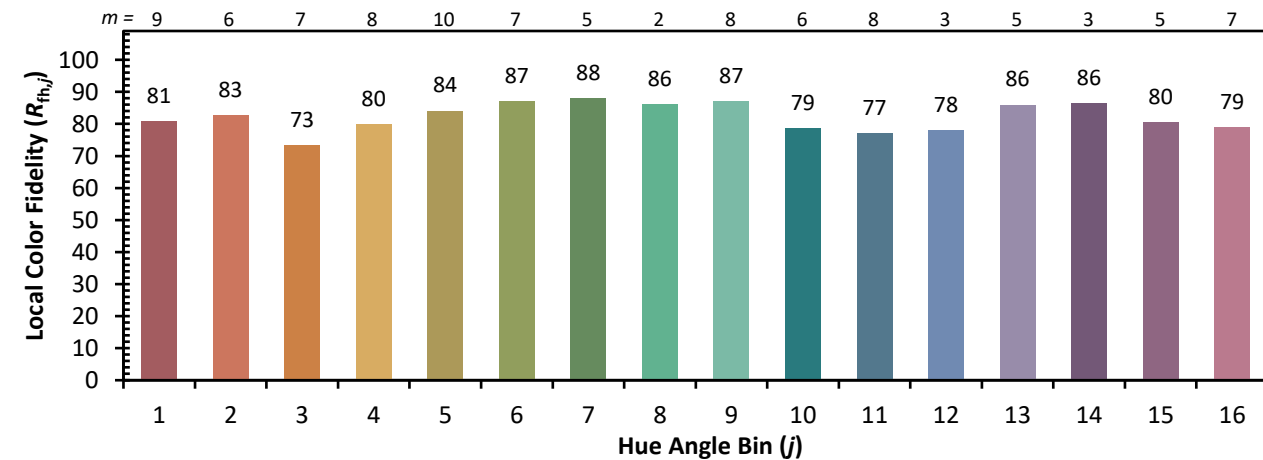
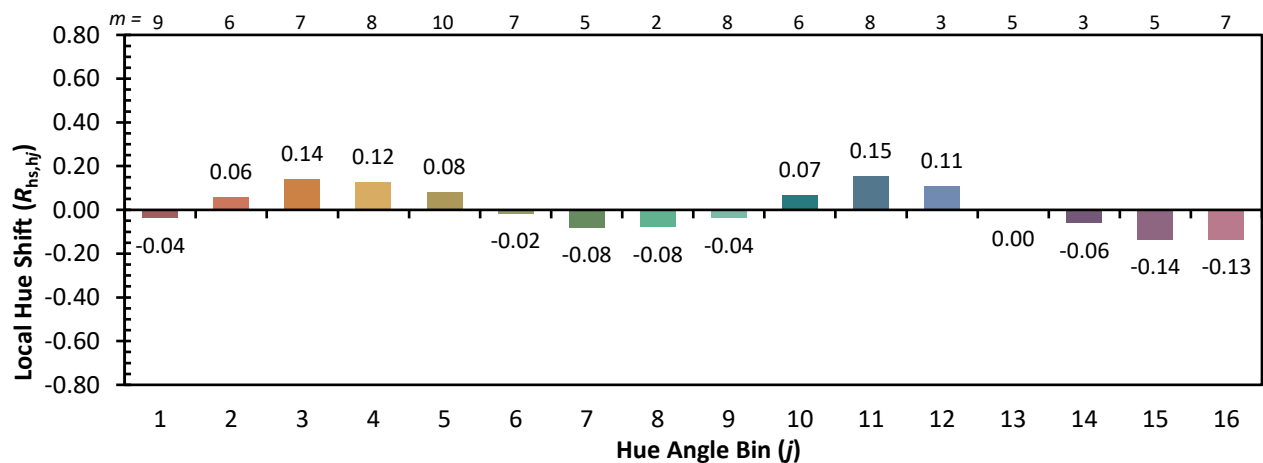
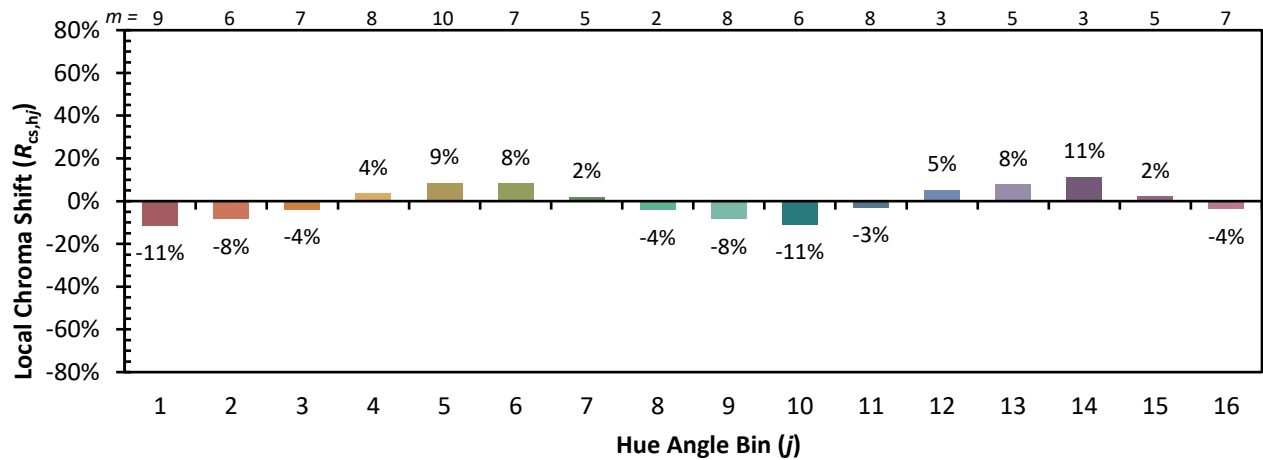


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

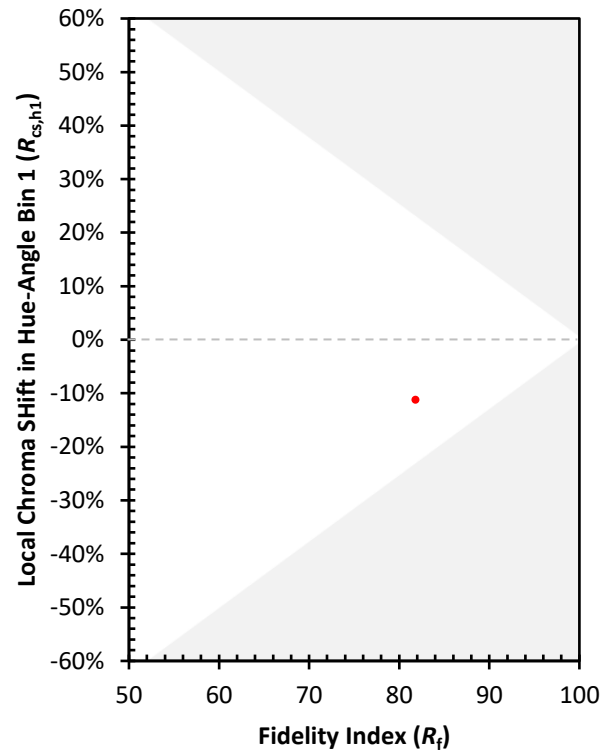
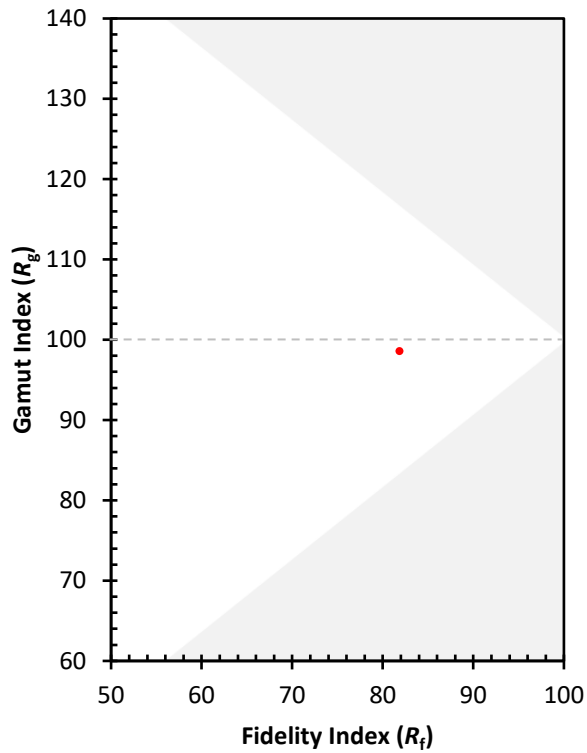
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 73 | CES51 = 93 | CES76 = 66 |
| CES02 = 61 | CES27 = 91 | CES52 = 93 | CES77 = 80 |
| CES03 = 31 | CES28 = 87 | CES53 = 83 | CES78 = 66 |
| CES04 = 69 | CES29 = 71 | CES54 = 89 | CES79 = 88 |
| CES05 = 48 | CES30 = 77 | CES55 = 88 | CES80 = 85 |
| CES06 = 50 | CES31 = 74 | CES56 = 80 | CES81 = 83 |
| CES07 = 41 | CES32 = 70 | CES57 = 79 | CES82 = 93 |
| CES08 = 40 | CES33 = 77 | CES58 = 80 | CES83 = 91 |
| CES09 = 29 | CES34 = 79 | CES59 = 92 | CES84 = 91 |
| CES10 = 74 | CES35 = 88 | CES60 = 95 | CES85 = 84 |
| CES11 = 57 | CES36 = 98 | CES61 = 91 | CES86 = 78 |
| CES12 = 63 | CES37 = 85 | CES62 = 90 | CES87 = 84 |
| CES13 = 42 | CES38 = 85 | CES63 = 81 | CES88 = 85 |
| CES14 = 74 | CES39 = 95 | CES64 = 81 | CES89 = 78 |
| CES15 = 71 | CES40 = 90 | CES65 = 76 | CES90 = 84 |
| CES16 = 47 | CES41 = 90 | CES66 = 78 | CES91 = 85 |
| CES17 = 49 | CES42 = 84 | CES67 = 76 | CES92 = 71 |
| CES18 = 56 | CES43 = 81 | CES68 = 80 | CES93 = 84 |
| CES19 = 71 | CES44 = 99 | CES69 = 86 | CES94 = 65 |
| CES20 = 65 | CES45 = 87 | CES70 = 73 | CES95 = 77 |
| CES21 = 86 | CES46 = 85 | CES71 = 70 | CES96 = 83 |
| CES22 = 78 | CES47 = 84 | CES72 = 90 | CES97 = 87 |
| CES23 = 91 | CES48 = 79 | CES73 = 65 | CES98 = 81 |
| CES24 = 90 | CES49 = 84 | CES74 = 98 | CES99 = 75 |
| CES25 = 71 | CES50 = 91 | CES75 = 68 |            |



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)