

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: P1065590

Luminaire Tested: **GLAN-SA7B-930-U-LBC**

Issue Date: 08/07/2025



**Test Information**

Test Method: LM-79-08  
Report Number: P1065590  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 08/07/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7B-930-U-LBC  
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 7xLight Square PACKAGE  
90CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (98) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19678.8 lumens  
Efficiency: N/A  
Efficacy: 78.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G3

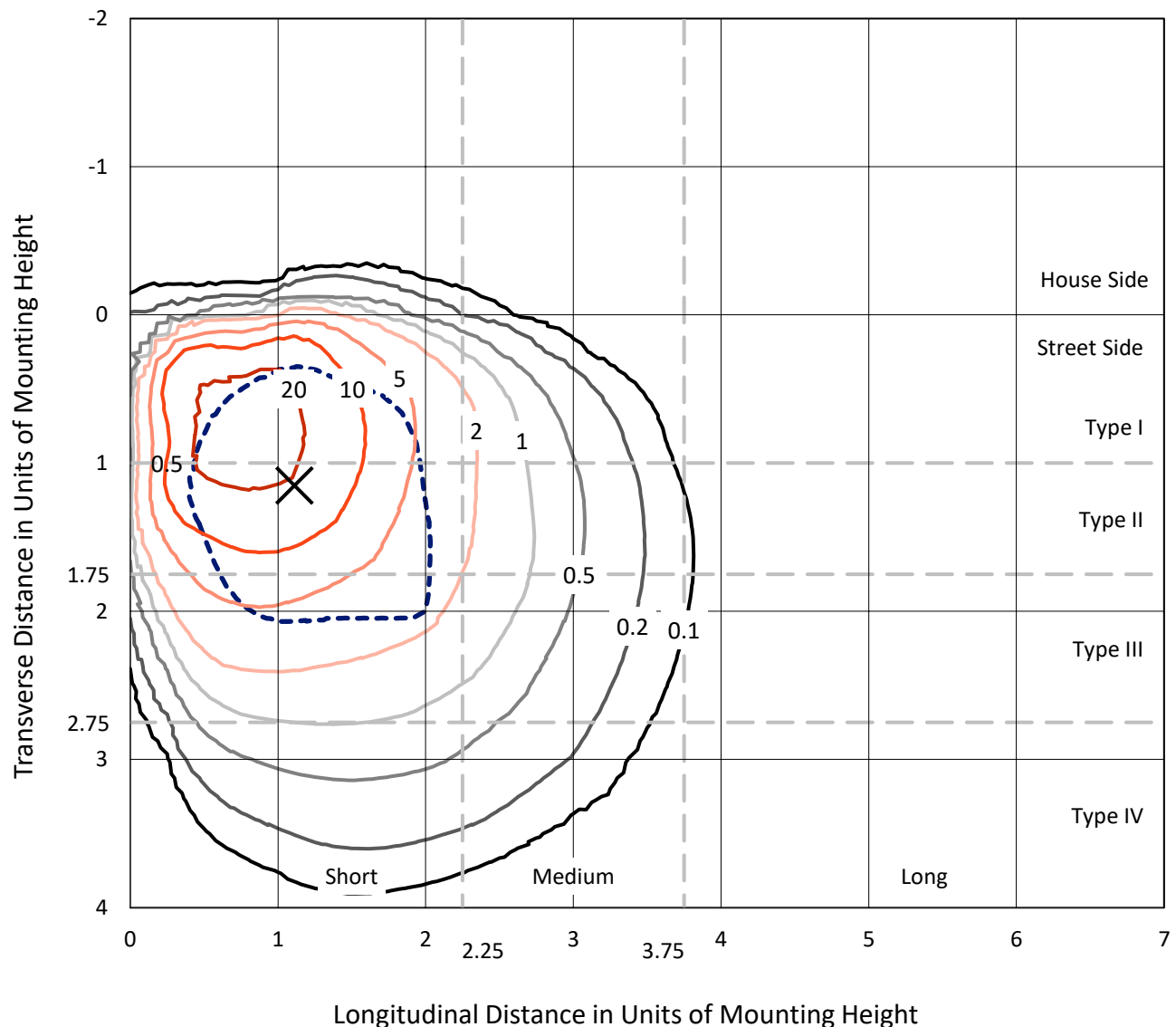
Input Watts (W): 249.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.97  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

REPORT NUMBER: P1065590

CATALOG NUMBER: GLAN-SA7B-930-U-LBC

## Iso-Footcandle Lines of Horizontal Illumination

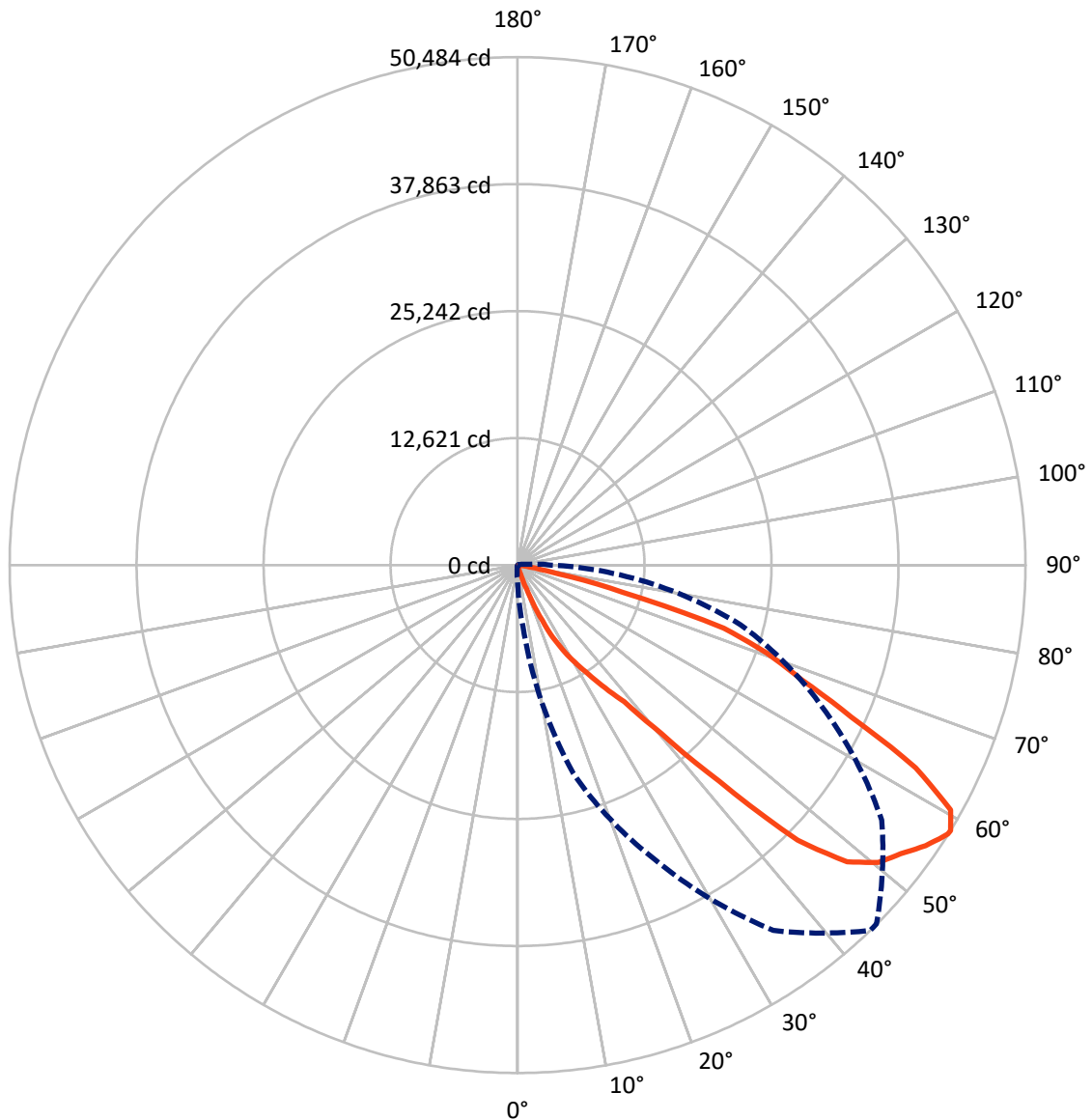
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 34.3 fc  
 Type III - Short - N/A

REPORT NUMBER: P1065590  
CATALOG NUMBER: GLAN-SA7B-930-U-LBC

## Luminous Intensity Polar Plot



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

REPORT NUMBER: P1065590

CATALOG NUMBER: GLAN-SA7B-930-U-LBC

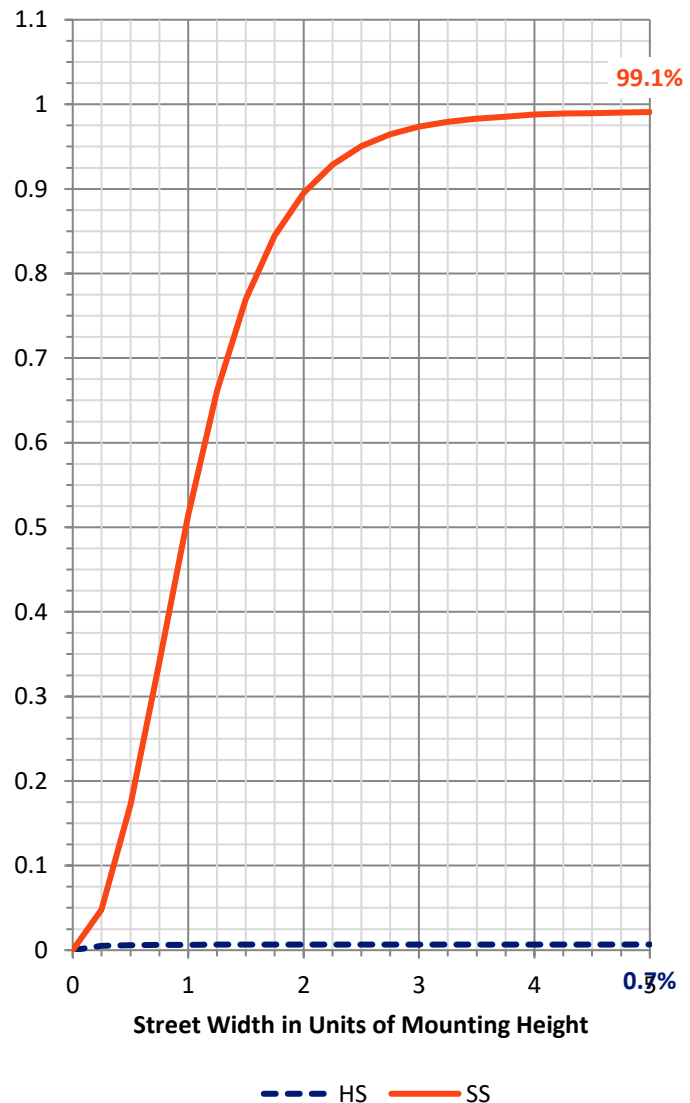
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 134.4    | 0.0    | 134.4   |
|                    | % Fixture | 0.7      | 0.0    | 0.7     |
| <b>Street Side</b> | Lumens    | 19544.4  | 0.0    | 19544.4 |
|                    | % Fixture | 99.3     | 0.0    | 99.3    |
| <b>Total</b>       | Lumens    | 19678.8  | 0.0    | 19678.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 7.7     | 0.0       |
| 10°-20°   | 43.2    | 0.2       |
| 20°-30°   | 466.2   | 2.4       |
| 30°-40°   | 1378.7  | 7.0       |
| 40°-50°   | 4109.2  | 20.9      |
| 50°-60°   | 6520.4  | 33.1      |
| 60°-70°   | 5438.8  | 27.6      |
| 70°-80°   | 1677.4  | 8.5       |
| 80°-90°   | 37.3    | 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°    | 19678.8 | 100.0     |
| 0°-180°   | 19678.8 | 100.0     |



REPORT NUMBER: P1065590

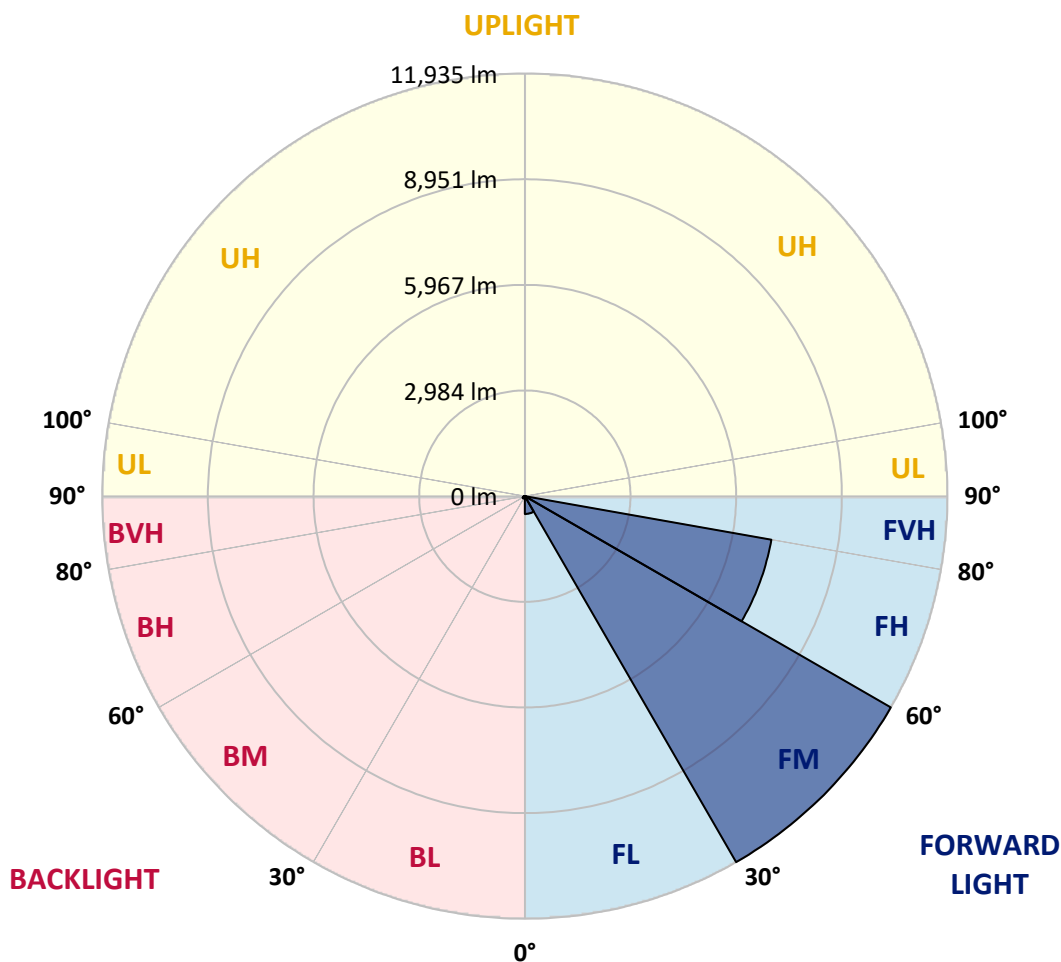
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 503.9   | 2.6       |                         |      |         |
| FM   | (30°-60°)   | 11934.8 | 60.6      |                         |      |         |
| FH   | (60°-80°)   | 7070.3  | 35.9      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 35.5    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 13.1    | 0.1       | B0/110                  |      |         |
| BM   | (30°-60°)   | 73.5    | 0.4       | B0/220                  |      |         |
| BH   | (60°-80°)   | 45.9    | 0.2       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 1.8     | 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



REPORT NUMBER: P1065590

CATALOG NUMBER: GLAN-SA7B-930-U-LBC

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°     | 25°     | 35°     | 44°     | 45°     | 55°     | 65°     | 75°     |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 86.2   | 86.2   | 86.2    | 86.2    | 86.2    | 86.2    | 86.2    | 86.2    | 86.2    | 86.2    |
| 2.5°  | 111.5  | 111.5  | 107.0   | 101.1   | 95.1    | 89.2    | 87.7    | 84.7    | 83.2    | 81.8    |
| 5°    | 116.0  | 116.0  | 114.5   | 110.0   | 104.1   | 99.6    | 99.6    | 95.1    | 92.2    | 89.2    |
| 7.5°  | 118.9  | 120.4  | 123.4   | 121.9   | 118.9   | 114.5   | 114.5   | 111.5   | 107.0   | 99.6    |
| 10°   | 123.4  | 127.8  | 133.8   | 136.8   | 138.3   | 138.3   | 136.8   | 135.3   | 127.8   | 117.4   |
| 12.5° | 127.8  | 136.8  | 151.6   | 166.5   | 175.4   | 187.3   | 185.8   | 182.8   | 163.5   | 141.2   |
| 15°   | 136.8  | 150.1  | 181.4   | 224.5   | 291.4   | 333.0   | 349.3   | 334.5   | 270.6   | 190.3   |
| 17.5° | 147.2  | 169.5  | 263.1   | 469.8   | 770.0   | 912.8   | 999.0   | 929.1   | 615.4   | 361.2   |
| 20°   | 157.6  | 206.6  | 489.1   | 1217.5  | 1997.9  | 2464.7  | 2594.1  | 2391.9  | 1535.6  | 688.3   |
| 22.5° | 175.4  | 289.9  | 991.5   | 2516.8  | 4305.1  | 5005.3  | 5137.6  | 4490.9  | 2900.3  | 1358.7  |
| 25°   | 212.6  | 420.7  | 1709.5  | 4101.4  | 6424.9  | 7606.8  | 7551.7  | 6704.4  | 4705.0  | 2170.4  |
| 27.5° | 266.1  | 612.5  | 2585.1  | 5827.3  | 8455.6  | 9497.7  | 9622.5  | 8574.5  | 6271.8  | 3191.7  |
| 30°   | 343.4  | 848.8  | 3524.6  | 7209.8  | 10083.4 | 11210.2 | 11231.0 | 10147.3 | 7673.6  | 4088.1  |
| 32.5° | 417.7  | 1071.8 | 4346.7  | 8546.3  | 11687.4 | 12922.7 | 13014.9 | 11681.4 | 8720.2  | 5021.6  |
| 35°   | 474.2  | 1217.5 | 5179.2  | 9720.6  | 13304.8 | 15006.9 | 15000.9 | 13417.7 | 9960.0  | 5855.6  |
| 37.5° | 478.7  | 1363.2 | 5932.9  | 10921.8 | 15353.2 | 17259.0 | 17447.8 | 15702.6 | 11458.4 | 6887.3  |
| 40°   | 468.3  | 1526.7 | 6887.3  | 12794.9 | 19044.4 | 21968.5 | 22134.9 | 19934.8 | 14464.3 | 8653.3  |
| 42.5° | 480.2  | 1810.6 | 8436.3  | 16254.1 | 25173.5 | 29373.0 | 29694.1 | 27381.0 | 19989.8 | 12256.7 |
| 45°   | 542.6  | 2344.3 | 11681.4 | 22041.3 | 33910.0 | 39029.8 | 38922.7 | 35591.3 | 26419.2 | 17742.1 |
| 47.5° | 749.2  | 3651.0 | 16491.9 | 27673.9 | 39493.6 | 44052.9 | 44145.0 | 40073.3 | 30171.3 | 21959.5 |
| 50°   | 1152.1 | 5586.5 | 20533.9 | 30651.5 | 41894.4 | 46468.5 | 46382.3 | 41677.3 | 31596.9 | 24036.3 |
| 52.5° | 1498.5 | 6986.9 | 22561.6 | 31696.5 | 42202.1 | 47662.2 | 47656.3 | 42099.5 | 31818.4 | 24214.7 |
| 55°   | 1584.7 | 7092.4 | 22577.9 | 31753.0 | 42891.8 | 49224.6 | 49420.8 | 43138.6 | 32105.3 | 23435.7 |
| 57.5° | 1550.5 | 6279.2 | 21635.5 | 32080.1 | 44119.7 | 50433.2 | 50443.6 | 44145.0 | 32833.8 | 22958.5 |
| 58°   | 1520.8 | 6151.4 | 21445.2 | 32265.9 | 44330.8 | 50483.7 | 50458.5 | 44191.1 | 33426.9 | 22940.7 |
| 60°   | 1354.3 | 5341.2 | 20703.4 | 32740.1 | 44017.2 | 49446.1 | 49209.7 | 43184.7 | 33339.2 | 22757.8 |
| 62.5° | 1064.4 | 4166.8 | 19973.5 | 32191.6 | 40654.6 | 44423.0 | 44521.1 | 38233.0 | 30392.8 | 21692.0 |
| 65°   | 847.3  | 3105.4 | 18451.2 | 28237.3 | 33477.4 | 36480.3 | 36846.0 | 31090.0 | 25368.2 | 18368.0 |
| 67.5° | 674.9  | 2244.7 | 15478.1 | 22481.3 | 26490.6 | 30446.3 | 30712.4 | 26102.6 | 19653.9 | 14073.3 |
| 70°   | 548.5  | 1517.8 | 10683.9 | 16441.4 | 21849.5 | 26297.3 | 26313.7 | 21684.5 | 14669.4 | 9221.2  |
| 72.5° | 486.1  | 1051.0 | 6201.9  | 11990.6 | 17716.9 | 21428.8 | 20996.2 | 17596.5 | 11274.1 | 5461.6  |
| 75°   | 420.7  | 697.2  | 3041.5  | 7330.2  | 10741.9 | 10814.8 | 10979.8 | 8162.7  | 5635.6  | 2597.0  |
| 77.5° | 346.4  | 495.0  | 1198.2  | 2002.4  | 3221.4  | 4123.7  | 4276.8  | 3240.7  | 1874.6  | 639.2   |
| 80°   | 237.9  | 234.9  | 322.6   | 614.0   | 921.7   | 1155.1  | 1077.8  | 834.0   | 490.6   | 245.3   |
| 82.5° | 102.6  | 111.5  | 145.7   | 175.4   | 142.7   | 138.3   | 132.3   | 84.7    | 65.4    | 50.5    |
| 85°   | 32.7   | 29.7   | 31.2    | 31.2    | 25.3    | 19.3    | 19.3    | 8.9     | 0.0     | 0.0     |
| 87.5° | 16.4   | 13.4   | 13.4    | 11.9    | 7.4     | 3.0     | 1.5     | 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     |



REPORT NUMBER: P1065590

CATALOG NUMBER: GLAN-SA7B-930-U-LBC

**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°    | 95°   | 105°  | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|--------|-------|-------|------|------|------|------|------|------|------|
| 86.2    | 0°    | 86.2   | 86.2  | 86.2  | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 |
| 80.3    | 2.5°  | 78.8   | 78.8  | 75.8  | 72.8 | 71.4 | 68.4 | 66.9 | 65.4 | 63.9 | 62.4 |
| 86.2    | 5°    | 83.2   | 81.8  | 77.3  | 72.8 | 68.4 | 63.9 | 60.9 | 58.0 | 55.0 | 53.5 |
| 95.1    | 7.5°  | 90.7   | 87.7  | 78.8  | 71.4 | 65.4 | 59.5 | 56.5 | 52.0 | 49.1 | 44.6 |
| 105.5   | 10°   | 99.6   | 93.7  | 81.8  | 72.8 | 63.9 | 56.5 | 52.0 | 47.6 | 43.1 | 37.2 |
| 120.4   | 12.5° | 111.5  | 101.1 | 86.2  | 71.4 | 60.9 | 52.0 | 47.6 | 41.6 | 37.2 | 32.7 |
| 139.7   | 15°   | 121.9  | 108.5 | 87.7  | 71.4 | 58.0 | 47.6 | 41.6 | 35.7 | 31.2 | 25.3 |
| 175.4   | 17.5° | 136.8  | 114.5 | 86.2  | 66.9 | 53.5 | 41.6 | 35.7 | 31.2 | 23.8 | 14.9 |
| 260.1   | 20°   | 162.0  | 118.9 | 83.2  | 62.4 | 46.1 | 34.2 | 26.8 | 20.8 | 10.4 | 3.0  |
| 391.0   | 22.5° | 202.2  | 130.8 | 80.3  | 56.5 | 40.1 | 26.8 | 17.8 | 7.4  | 0.0  | 0.0  |
| 594.6   | 25°   | 279.5  | 151.6 | 80.3  | 53.5 | 35.7 | 19.3 | 5.9  | 0.0  | 0.0  | 0.0  |
| 844.4   | 27.5° | 371.6  | 179.9 | 80.3  | 46.1 | 28.2 | 10.4 | 0.0  | 0.0  | 0.0  | 0.0  |
| 1150.6  | 30°   | 465.3  | 211.1 | 80.3  | 40.1 | 22.3 | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1416.7  | 32.5° | 554.5  | 237.9 | 81.8  | 34.2 | 14.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1785.4  | 35°   | 645.2  | 242.3 | 80.3  | 29.7 | 8.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2237.3  | 37.5° | 761.1  | 233.4 | 75.8  | 26.8 | 4.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2943.4  | 40°   | 936.5  | 237.9 | 71.4  | 25.3 | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 4202.5  | 42.5° | 1260.6 | 257.2 | 65.4  | 25.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 6694.0  | 45°   | 2179.3 | 344.9 | 59.5  | 26.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 10049.2 | 47.5° | 3604.9 | 619.9 | 58.0  | 26.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 12105.1 | 50°   | 4600.9 | 780.4 | 60.9  | 28.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 12362.3 | 52.5° | 4593.5 | 869.6 | 63.9  | 29.7 | 5.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 11394.5 | 55°   | 4083.6 | 886.0 | 68.4  | 32.7 | 19.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 9792.0  | 57.5° | 3413.2 | 808.7 | 78.8  | 40.1 | 35.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 9540.8  | 58°   | 3294.2 | 773.0 | 81.8  | 41.6 | 38.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 8275.7  | 60°   | 2699.6 | 630.3 | 104.1 | 52.0 | 52.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 6784.7  | 62.5° | 1864.2 | 550.0 | 118.9 | 66.9 | 53.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5002.3  | 65°   | 1318.6 | 496.5 | 129.3 | 71.4 | 43.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 3554.4  | 67.5° | 985.6  | 457.9 | 142.7 | 72.8 | 22.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2229.8  | 70°   | 755.2  | 429.6 | 175.4 | 77.3 | 5.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1329.0  | 72.5° | 615.4  | 396.9 | 212.6 | 80.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 796.8   | 75°   | 509.9  | 358.3 | 205.1 | 87.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 425.2   | 77.5° | 338.9  | 278.0 | 187.3 | 87.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 151.6   | 80°   | 118.9  | 110.0 | 145.7 | 77.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 31.2    | 82.5° | 17.8   | 14.9  | 20.8  | 26.8 | 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  |

REPORT NUMBER: P1065590

CATALOG NUMBER: GLAN-SA7B-930-U-LBC

**CANDELA DISTRIBUTION (continued):**

| 180° |       | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° |
|------|-------|------|------|------|------|------|------|------|------|------|------|
| 86.2 | 0°    | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 |
| 60.9 | 2.5°  | 60.9 | 60.9 | 59.5 | 60.9 | 60.9 | 63.9 | 71.4 | 81.8 | 93.7 | 98.1 |
| 52.0 | 5°    | 50.5 | 49.1 | 47.6 | 47.6 | 47.6 | 52.0 | 58.0 | 69.9 | 83.2 | 89.2 |
| 43.1 | 7.5°  | 41.6 | 40.1 | 38.7 | 37.2 | 37.2 | 40.1 | 47.6 | 60.9 | 74.3 | 80.3 |
| 35.7 | 10°   | 34.2 | 31.2 | 29.7 | 28.2 | 28.2 | 31.2 | 38.7 | 52.0 | 66.9 | 72.8 |
| 29.7 | 12.5° | 28.2 | 23.8 | 20.8 | 19.3 | 17.8 | 22.3 | 29.7 | 41.6 | 58.0 | 65.4 |
| 22.3 | 15°   | 19.3 | 14.9 | 10.4 | 8.9  | 7.4  | 11.9 | 19.3 | 32.7 | 49.1 | 58.0 |
| 11.9 | 17.5° | 10.4 | 4.5  | 1.5  | 0.0  | 0.0  | 3.0  | 8.9  | 23.8 | 40.1 | 47.6 |
| 0.0  | 20°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 11.9 | 29.7 | 37.2 |
| 0.0  | 22.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.5  | 17.8 | 25.3 |
| 0.0  | 25°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.4  | 13.4 |
| 0.0  | 27.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  |
| 0.0  | 30°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 32.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 35°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 37.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 40°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 42.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 45°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 47.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 50°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 52.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 55°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 57.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 58°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 60°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 62.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 65°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 67.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 70°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 72.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 75°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 77.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 80°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 82.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 85°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.5  |
| 0.0  | 87.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.9  | 11.9 |
| 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: P1065590

CATALOG NUMBER: GLAN-SA7B-930-U-LBC

**CANDELA DISTRIBUTION (continued):**

| 275°  |       | 285°  | 295°  | 305°  | 315° | 316° | 325° | 335°  | 345°  | 355°  | 360°   |
|-------|-------|-------|-------|-------|------|------|------|-------|-------|-------|--------|
| 86.2  | 0°    | 86.2  | 86.2  | 86.2  | 86.2 | 86.2 | 86.2 | 86.2  | 86.2  | 86.2  | 86.2   |
| 102.6 | 2.5°  | 105.5 | 104.1 | 101.1 | 98.1 | 98.1 | 98.1 | 102.6 | 107.0 | 111.5 | 111.5  |
| 92.2  | 5°    | 98.1  | 98.1  | 96.6  | 93.7 | 93.7 | 95.1 | 101.1 | 108.5 | 114.5 | 116.0  |
| 84.7  | 7.5°  | 90.7  | 93.7  | 90.7  | 89.2 | 90.7 | 92.2 | 98.1  | 107.0 | 116.0 | 118.9  |
| 78.8  | 10°   | 86.2  | 87.7  | 87.7  | 86.2 | 86.2 | 89.2 | 95.1  | 107.0 | 118.9 | 123.4  |
| 71.4  | 12.5° | 80.3  | 83.2  | 81.8  | 81.8 | 81.8 | 84.7 | 92.2  | 105.5 | 121.9 | 127.8  |
| 63.9  | 15°   | 74.3  | 78.8  | 78.8  | 77.3 | 77.3 | 78.8 | 89.2  | 104.1 | 126.4 | 136.8  |
| 55.0  | 17.5° | 68.4  | 72.8  | 74.3  | 71.4 | 71.4 | 74.3 | 84.7  | 104.1 | 129.3 | 147.2  |
| 44.6  | 20°   | 56.5  | 63.9  | 68.4  | 63.9 | 63.9 | 66.9 | 77.3  | 98.1  | 130.8 | 157.6  |
| 32.7  | 22.5° | 44.6  | 52.0  | 58.0  | 56.5 | 56.5 | 58.0 | 71.4  | 93.7  | 132.3 | 175.4  |
| 19.3  | 25°   | 32.7  | 40.1  | 44.6  | 47.6 | 47.6 | 52.0 | 65.4  | 90.7  | 138.3 | 212.6  |
| 8.9   | 27.5° | 19.3  | 28.2  | 34.2  | 37.2 | 38.7 | 44.6 | 60.9  | 87.7  | 148.7 | 266.1  |
| 0.0   | 30°   | 8.9   | 16.4  | 23.8  | 29.7 | 29.7 | 40.1 | 56.5  | 84.7  | 162.0 | 343.4  |
| 0.0   | 32.5° | 0.0   | 7.4   | 11.9  | 20.8 | 22.3 | 32.7 | 52.0  | 81.8  | 181.4 | 417.7  |
| 0.0   | 35°   | 0.0   | 0.0   | 5.9   | 16.4 | 16.4 | 26.8 | 47.6  | 78.8  | 211.1 | 474.2  |
| 0.0   | 37.5° | 0.0   | 0.0   | 0.0   | 11.9 | 13.4 | 23.8 | 46.1  | 77.3  | 217.0 | 478.7  |
| 0.0   | 40°   | 0.0   | 0.0   | 0.0   | 8.9  | 10.4 | 22.3 | 46.1  | 78.8  | 196.2 | 468.3  |
| 0.0   | 42.5° | 0.0   | 0.0   | 0.0   | 5.9  | 7.4  | 22.3 | 46.1  | 81.8  | 176.9 | 480.2  |
| 0.0   | 45°   | 0.0   | 0.0   | 0.0   | 4.5  | 5.9  | 23.8 | 44.6  | 80.3  | 166.5 | 542.6  |
| 0.0   | 47.5° | 0.0   | 0.0   | 0.0   | 5.9  | 8.9  | 23.8 | 43.1  | 78.8  | 168.0 | 749.2  |
| 0.0   | 50°   | 0.0   | 0.0   | 0.0   | 7.4  | 10.4 | 23.8 | 44.6  | 75.8  | 184.3 | 1152.1 |
| 0.0   | 52.5° | 0.0   | 0.0   | 0.0   | 5.9  | 8.9  | 26.8 | 49.1  | 74.3  | 200.7 | 1498.5 |
| 0.0   | 55°   | 0.0   | 0.0   | 0.0   | 1.5  | 4.5  | 34.2 | 53.5  | 74.3  | 226.0 | 1584.7 |
| 0.0   | 57.5° | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 38.7 | 60.9  | 78.8  | 267.6 | 1550.5 |
| 0.0   | 58°   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 38.7 | 62.4  | 78.8  | 270.6 | 1520.8 |
| 0.0   | 60°   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 38.7 | 68.4  | 87.7  | 291.4 | 1354.3 |
| 0.0   | 62.5° | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 32.7 | 81.8  | 110.0 | 303.3 | 1064.4 |
| 0.0   | 65°   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 26.8 | 96.6  | 120.4 | 312.2 | 847.3  |
| 0.0   | 67.5° | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 25.3 | 99.6  | 121.9 | 316.6 | 674.9  |
| 0.0   | 70°   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 26.8 | 98.1  | 130.8 | 331.5 | 548.5  |
| 0.0   | 72.5° | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 29.7 | 89.2  | 144.2 | 331.5 | 486.1  |
| 0.0   | 75°   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 31.2 | 83.2  | 162.0 | 301.8 | 420.7  |
| 0.0   | 77.5° | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 29.7 | 81.8  | 188.8 | 269.1 | 346.4  |
| 0.0   | 80°   | 3.0   | 4.5   | 4.5   | 3.0  | 3.0  | 25.3 | 80.3  | 191.8 | 228.9 | 237.9  |
| 1.5   | 82.5° | 8.9   | 11.9  | 10.4  | 7.4  | 7.4  | 22.3 | 71.4  | 160.5 | 118.9 | 102.6  |
| 8.9   | 85°   | 16.4  | 19.3  | 19.3  | 16.4 | 16.4 | 20.8 | 44.6  | 58.0  | 40.1  | 32.7   |
| 16.4  | 87.5° | 22.3  | 25.3  | 25.3  | 22.3 | 22.3 | 20.8 | 19.3  | 17.8  | 16.4  | 16.4   |
| 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: SP1-2407-184-14

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-930-U-5WQ

Data in this report applies to families of products including GSS-SB1A-930-U-5WQ

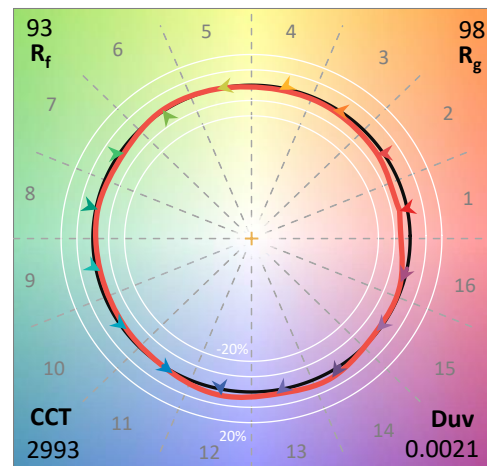
### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2407-184-14  
 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-930-U-5WQ**  
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI 3000K CCT 26 LEDS

### Spectral Parameters

CCT (K): 2993  
 CIE  $u'$ : 0.2501  
 CIE  $v'$ : 0.5245  
 Duv: 0.0021  
 CIE x: 0.4406  
 CIE y: 0.4107  
 CIE z: 0.1487  
 Peak Wavelength (nm): 621  
 Dominant Wavelength (nm): 582  
 Purity: 55.53327  
 R<sub>f</sub>: 92.6  
 R<sub>g</sub>: 98.5

CRI (Ra): 92.4  
 R1: 92.2  
 R2: 95.2  
 R3: 97.0  
 R4: 93.1  
 R5: 91.7  
 R6: 94.2  
 R7: 93.3  
 R8: 82.3  
 R9: 58.2  
 R10: 87.7  
 R11: 93.5  
 R12: 81.7  
 R13: 92.9  
 R14: 97.6  
 R15: 88.1



### Test Conditions

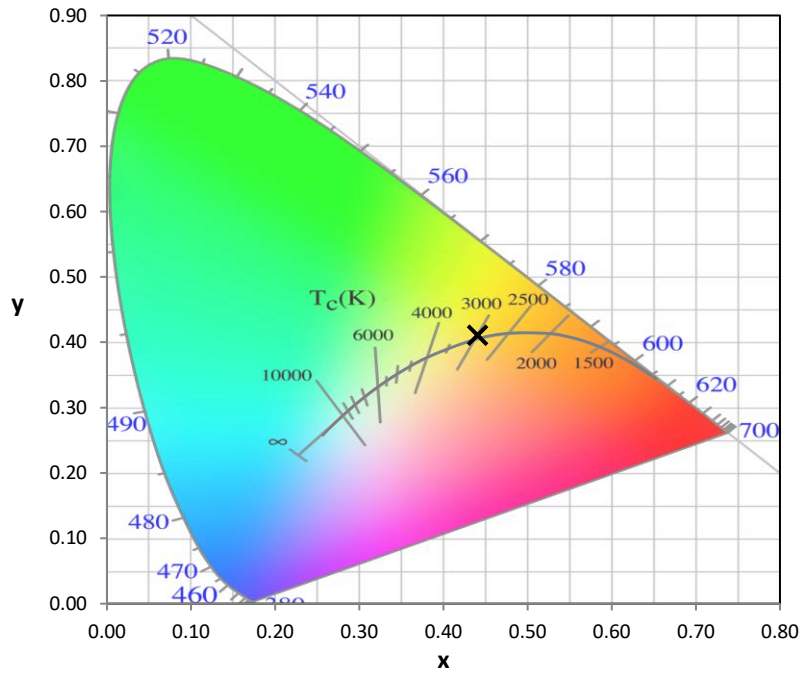
Stabilization Time: 20M  
 Operation Time: 1H 20M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-14

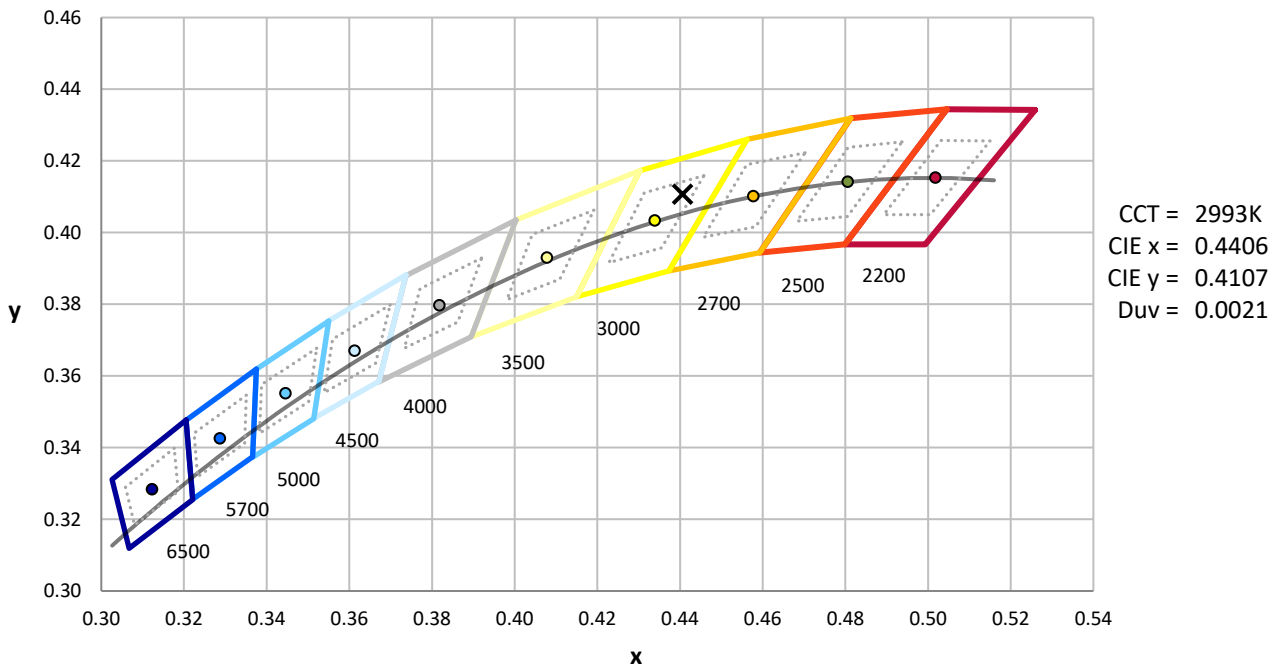
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| 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: SP1-2407-184-14

**CIE 1931 Chromaticity Diagram**



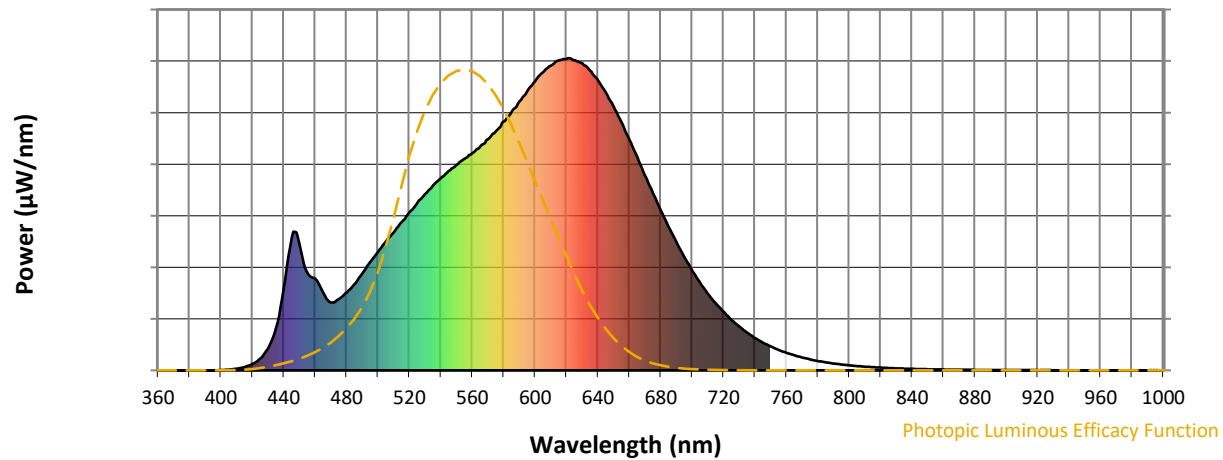
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-14

### Photopic Flux vs. Wavelength

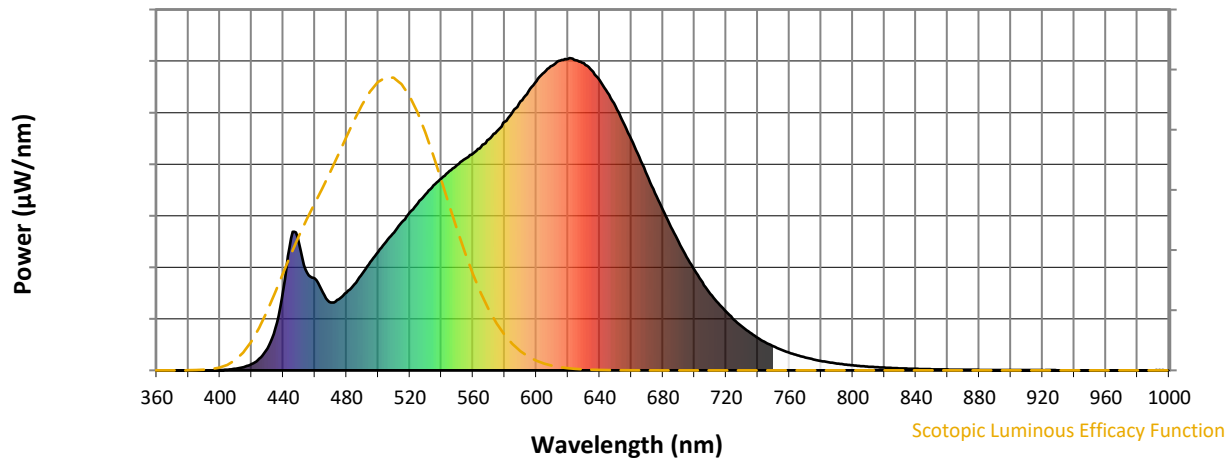


### Photopic Lumens: NR

| $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) |
|-------------------|----------------------------------------|--------------------------------|-------------------|----------------------------------------|--------------------------------|-------------------|----------------------------------------|--------------------------------|-------------------|----------------------------------------|--------------------------------|-------------------|----------------------------------------|--------------------------------|
| 360               | 0                                      | NR                             | 490               | 310                                    | NR                             | 620               | 998                                    | NR                             | 750               | 77                                     | NR                             | 880               | 2                                      | NR                             |
| 365               | 0                                      | NR                             | 495               | 347                                    | NR                             | 625               | 993                                    | NR                             | 755               | 66                                     | NR                             | 885               | 1                                      | NR                             |
| 370               | 0                                      | NR                             | 500               | 379                                    | NR                             | 630               | 983                                    | NR                             | 760               | 56                                     | NR                             | 890               | 1                                      | NR                             |
| 375               | 0                                      | NR                             | 505               | 412                                    | NR                             | 635               | 960                                    | NR                             | 765               | 48                                     | NR                             | 895               | 1                                      | NR                             |
| 380               | 0                                      | NR                             | 510               | 442                                    | NR                             | 640               | 930                                    | NR                             | 770               | 41                                     | NR                             | 900               | 1                                      | NR                             |
| 385               | 0                                      | NR                             | 515               | 475                                    | NR                             | 645               | 889                                    | NR                             | 775               | 35                                     | NR                             | 905               | 1                                      | NR                             |
| 390               | 0                                      | NR                             | 520               | 506                                    | NR                             | 650               | 846                                    | NR                             | 780               | 30                                     | NR                             | 910               | 1                                      | NR                             |
| 395               | 0                                      | NR                             | 525               | 535                                    | NR                             | 655               | 794                                    | NR                             | 785               | 26                                     | NR                             | 915               | 1                                      | NR                             |
| 400               | 1                                      | NR                             | 530               | 565                                    | NR                             | 660               | 740                                    | NR                             | 790               | 22                                     | NR                             | 920               | 1                                      | NR                             |
| 405               | 2                                      | NR                             | 535               | 592                                    | NR                             | 665               | 684                                    | NR                             | 795               | 19                                     | NR                             | 925               | 1                                      | NR                             |
| 410               | 6                                      | NR                             | 540               | 615                                    | NR                             | 670               | 624                                    | NR                             | 800               | 16                                     | NR                             | 930               | 0                                      | NR                             |
| 415               | 10                                     | NR                             | 545               | 638                                    | NR                             | 675               | 567                                    | NR                             | 805               | 14                                     | NR                             | 935               | 0                                      | NR                             |
| 420               | 20                                     | NR                             | 550               | 658                                    | NR                             | 680               | 513                                    | NR                             | 810               | 12                                     | NR                             | 940               | 0                                      | NR                             |
| 425               | 38                                     | NR                             | 555               | 678                                    | NR                             | 685               | 459                                    | NR                             | 815               | 10                                     | NR                             | 945               | 0                                      | NR                             |
| 430               | 70                                     | NR                             | 560               | 695                                    | NR                             | 690               | 412                                    | NR                             | 820               | 9                                      | NR                             | 950               | 0                                      | NR                             |
| 435               | 136                                    | NR                             | 565               | 716                                    | NR                             | 695               | 363                                    | NR                             | 825               | 8                                      | NR                             | 955               | 0                                      | NR                             |
| 440               | 262                                    | NR                             | 570               | 740                                    | NR                             | 700               | 320                                    | NR                             | 830               | 7                                      | NR                             | 960               | 0                                      | NR                             |
| 445               | 424                                    | NR                             | 575               | 765                                    | NR                             | 705               | 281                                    | NR                             | 835               | 6                                      | NR                             | 965               | 0                                      | NR                             |
| 450               | 406                                    | NR                             | 580               | 796                                    | NR                             | 710               | 245                                    | NR                             | 840               | 5                                      | NR                             | 970               | 0                                      | NR                             |
| 455               | 313                                    | NR                             | 585               | 827                                    | NR                             | 715               | 215                                    | NR                             | 845               | 4                                      | NR                             | 975               | 0                                      | NR                             |
| 460               | 294                                    | NR                             | 590               | 861                                    | NR                             | 720               | 188                                    | NR                             | 850               | 4                                      | NR                             | 980               | 0                                      | NR                             |
| 465               | 250                                    | NR                             | 595               | 894                                    | NR                             | 725               | 162                                    | NR                             | 855               | 3                                      | NR                             | 985               | 0                                      | NR                             |
| 470               | 217                                    | NR                             | 600               | 927                                    | NR                             | 730               | 140                                    | NR                             | 860               | 3                                      | NR                             | 990               | 0                                      | NR                             |
| 475               | 228                                    | NR                             | 605               | 954                                    | NR                             | 735               | 121                                    | NR                             | 865               | 2                                      | NR                             | 995               | 0                                      | NR                             |
| 480               | 249                                    | NR                             | 610               | 976                                    | NR                             | 740               | 104                                    | NR                             | 870               | 2                                      | NR                             | 1000              | 0                                      | NR                             |
| 485               | 276                                    | NR                             | 615               | 992                                    | NR                             | 745               | 89                                     | NR                             | 875               | 2                                      | NR                             |                   |                                        |                                |

REPORT NUMBER: SP1-2407-184-14

### Scotopic Flux vs. Wavelength



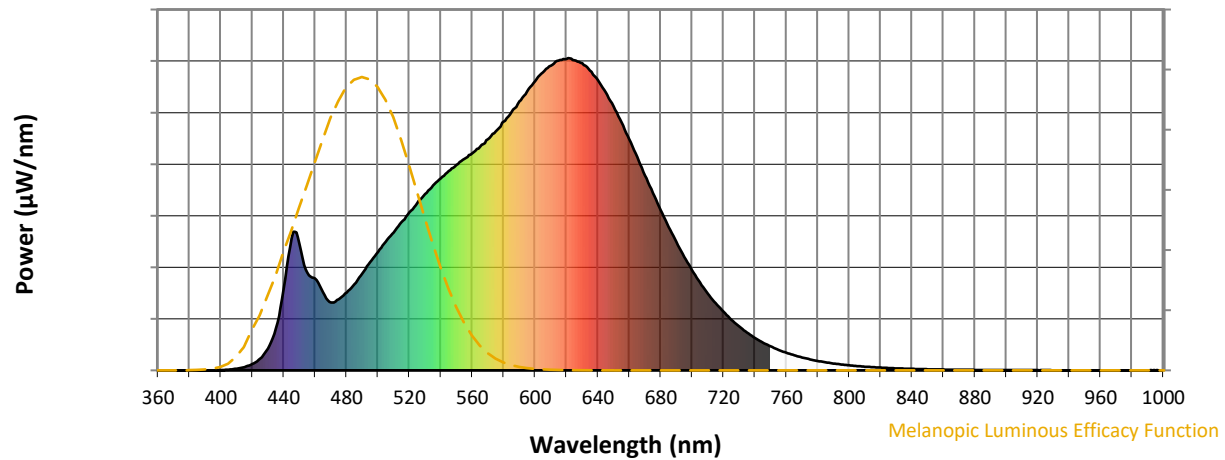
Scotopic Lumens: NR

S/P: 1.39

| 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       | 310                         | NR               | 620       | 998                         | NR               | 750       | 77                          | NR               | 880       | 2                           | NR               |
| 365       | 0                           | NR               | 495       | 347                         | NR               | 625       | 993                         | NR               | 755       | 66                          | NR               | 885       | 1                           | NR               |
| 370       | 0                           | NR               | 500       | 379                         | NR               | 630       | 983                         | NR               | 760       | 56                          | NR               | 890       | 1                           | NR               |
| 375       | 0                           | NR               | 505       | 412                         | NR               | 635       | 960                         | NR               | 765       | 48                          | NR               | 895       | 1                           | NR               |
| 380       | 0                           | NR               | 510       | 442                         | NR               | 640       | 930                         | NR               | 770       | 41                          | NR               | 900       | 1                           | NR               |
| 385       | 0                           | NR               | 515       | 475                         | NR               | 645       | 889                         | NR               | 775       | 35                          | NR               | 905       | 1                           | NR               |
| 390       | 0                           | NR               | 520       | 506                         | NR               | 650       | 846                         | NR               | 780       | 30                          | NR               | 910       | 1                           | NR               |
| 395       | 0                           | NR               | 525       | 535                         | NR               | 655       | 794                         | NR               | 785       | 26                          | NR               | 915       | 1                           | NR               |
| 400       | 1                           | NR               | 530       | 565                         | NR               | 660       | 740                         | NR               | 790       | 22                          | NR               | 920       | 1                           | NR               |
| 405       | 2                           | NR               | 535       | 592                         | NR               | 665       | 684                         | NR               | 795       | 19                          | NR               | 925       | 1                           | NR               |
| 410       | 6                           | NR               | 540       | 615                         | NR               | 670       | 624                         | NR               | 800       | 16                          | NR               | 930       | 0                           | NR               |
| 415       | 10                          | NR               | 545       | 638                         | NR               | 675       | 567                         | NR               | 805       | 14                          | NR               | 935       | 0                           | NR               |
| 420       | 20                          | NR               | 550       | 658                         | NR               | 680       | 513                         | NR               | 810       | 12                          | NR               | 940       | 0                           | NR               |
| 425       | 38                          | NR               | 555       | 678                         | NR               | 685       | 459                         | NR               | 815       | 10                          | NR               | 945       | 0                           | NR               |
| 430       | 70                          | NR               | 560       | 695                         | NR               | 690       | 412                         | NR               | 820       | 9                           | NR               | 950       | 0                           | NR               |
| 435       | 136                         | NR               | 565       | 716                         | NR               | 695       | 363                         | NR               | 825       | 8                           | NR               | 955       | 0                           | NR               |
| 440       | 262                         | NR               | 570       | 740                         | NR               | 700       | 320                         | NR               | 830       | 7                           | NR               | 960       | 0                           | NR               |
| 445       | 424                         | NR               | 575       | 765                         | NR               | 705       | 281                         | NR               | 835       | 6                           | NR               | 965       | 0                           | NR               |
| 450       | 406                         | NR               | 580       | 796                         | NR               | 710       | 245                         | NR               | 840       | 5                           | NR               | 970       | 0                           | NR               |
| 455       | 313                         | NR               | 585       | 827                         | NR               | 715       | 215                         | NR               | 845       | 4                           | NR               | 975       | 0                           | NR               |
| 460       | 294                         | NR               | 590       | 861                         | NR               | 720       | 188                         | NR               | 850       | 4                           | NR               | 980       | 0                           | NR               |
| 465       | 250                         | NR               | 595       | 894                         | NR               | 725       | 162                         | NR               | 855       | 3                           | NR               | 985       | 0                           | NR               |
| 470       | 217                         | NR               | 600       | 927                         | NR               | 730       | 140                         | NR               | 860       | 3                           | NR               | 990       | 0                           | NR               |
| 475       | 228                         | NR               | 605       | 954                         | NR               | 735       | 121                         | NR               | 865       | 2                           | NR               | 995       | 0                           | NR               |
| 480       | 249                         | NR               | 610       | 976                         | NR               | 740       | 104                         | NR               | 870       | 2                           | NR               | 1000      | 0                           | NR               |
| 485       | 276                         | NR               | 615       | 992                         | NR               | 745       | 89                          | NR               | 875       | 2                           | NR               |           |                             |                  |

REPORT NUMBER: SP1-2407-184-14

### Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.69

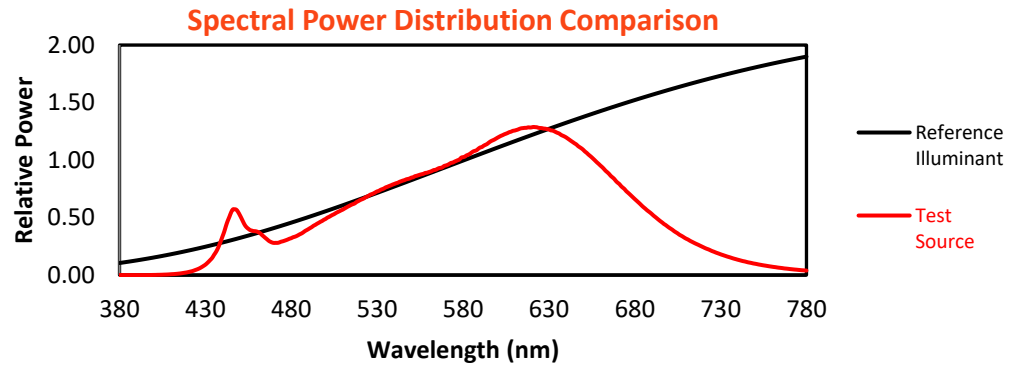
| $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | 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               | 310                                    | NR                             | 620               | 998                                    | NR                             | 750               | 77                                     | NR                             | 880               | 2                                      | NR                             |
| 365               | 0                                      | NR                             | 495               | 347                                    | NR                             | 625               | 993                                    | NR                             | 755               | 66                                     | NR                             | 885               | 1                                      | NR                             |
| 370               | 0                                      | NR                             | 500               | 379                                    | NR                             | 630               | 983                                    | NR                             | 760               | 56                                     | NR                             | 890               | 1                                      | NR                             |
| 375               | 0                                      | NR                             | 505               | 412                                    | NR                             | 635               | 960                                    | NR                             | 765               | 48                                     | NR                             | 895               | 1                                      | NR                             |
| 380               | 0                                      | NR                             | 510               | 442                                    | NR                             | 640               | 930                                    | NR                             | 770               | 41                                     | NR                             | 900               | 1                                      | NR                             |
| 385               | 0                                      | NR                             | 515               | 475                                    | NR                             | 645               | 889                                    | NR                             | 775               | 35                                     | NR                             | 905               | 1                                      | NR                             |
| 390               | 0                                      | NR                             | 520               | 506                                    | NR                             | 650               | 846                                    | NR                             | 780               | 30                                     | NR                             | 910               | 1                                      | NR                             |
| 395               | 0                                      | NR                             | 525               | 535                                    | NR                             | 655               | 794                                    | NR                             | 785               | 26                                     | NR                             | 915               | 1                                      | NR                             |
| 400               | 1                                      | NR                             | 530               | 565                                    | NR                             | 660               | 740                                    | NR                             | 790               | 22                                     | NR                             | 920               | 1                                      | NR                             |
| 405               | 2                                      | NR                             | 535               | 592                                    | NR                             | 665               | 684                                    | NR                             | 795               | 19                                     | NR                             | 925               | 1                                      | NR                             |
| 410               | 6                                      | NR                             | 540               | 615                                    | NR                             | 670               | 624                                    | NR                             | 800               | 16                                     | NR                             | 930               | 0                                      | NR                             |
| 415               | 10                                     | NR                             | 545               | 638                                    | NR                             | 675               | 567                                    | NR                             | 805               | 14                                     | NR                             | 935               | 0                                      | NR                             |
| 420               | 20                                     | NR                             | 550               | 658                                    | NR                             | 680               | 513                                    | NR                             | 810               | 12                                     | NR                             | 940               | 0                                      | NR                             |
| 425               | 38                                     | NR                             | 555               | 678                                    | NR                             | 685               | 459                                    | NR                             | 815               | 10                                     | NR                             | 945               | 0                                      | NR                             |
| 430               | 70                                     | NR                             | 560               | 695                                    | NR                             | 690               | 412                                    | NR                             | 820               | 9                                      | NR                             | 950               | 0                                      | NR                             |
| 435               | 136                                    | NR                             | 565               | 716                                    | NR                             | 695               | 363                                    | NR                             | 825               | 8                                      | NR                             | 955               | 0                                      | NR                             |
| 440               | 262                                    | NR                             | 570               | 740                                    | NR                             | 700               | 320                                    | NR                             | 830               | 7                                      | NR                             | 960               | 0                                      | NR                             |
| 445               | 424                                    | NR                             | 575               | 765                                    | NR                             | 705               | 281                                    | NR                             | 835               | 6                                      | NR                             | 965               | 0                                      | NR                             |
| 450               | 406                                    | NR                             | 580               | 796                                    | NR                             | 710               | 245                                    | NR                             | 840               | 5                                      | NR                             | 970               | 0                                      | NR                             |
| 455               | 313                                    | NR                             | 585               | 827                                    | NR                             | 715               | 215                                    | NR                             | 845               | 4                                      | NR                             | 975               | 0                                      | NR                             |
| 460               | 294                                    | NR                             | 590               | 861                                    | NR                             | 720               | 188                                    | NR                             | 850               | 4                                      | NR                             | 980               | 0                                      | NR                             |
| 465               | 250                                    | NR                             | 595               | 894                                    | NR                             | 725               | 162                                    | NR                             | 855               | 3                                      | NR                             | 985               | 0                                      | NR                             |
| 470               | 217                                    | NR                             | 600               | 927                                    | NR                             | 730               | 140                                    | NR                             | 860               | 3                                      | NR                             | 990               | 0                                      | NR                             |
| 475               | 228                                    | NR                             | 605               | 954                                    | NR                             | 735               | 121                                    | NR                             | 865               | 2                                      | NR                             | 995               | 0                                      | NR                             |
| 480               | 249                                    | NR                             | 610               | 976                                    | NR                             | 740               | 104                                    | NR                             | 870               | 2                                      | NR                             | 1000              | 0                                      | NR                             |
| 485               | 276                                    | NR                             | 615               | 992                                    | NR                             | 745               | 89                                     | NR                             | 875               | 2                                      | NR                             |                   |                                        |                                |

REPORT NUMBER: SP1-2407-184-14

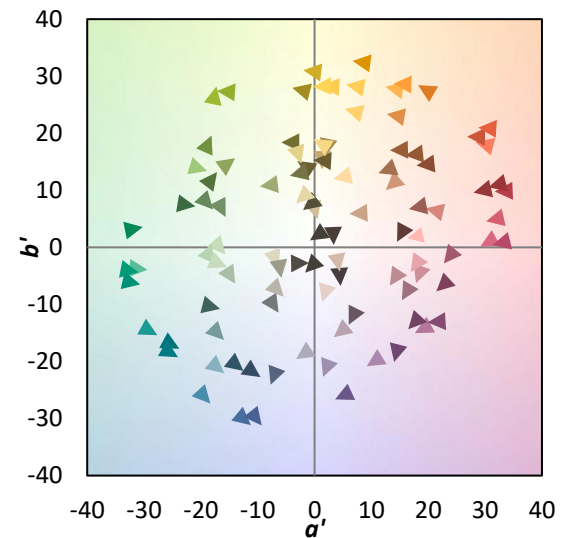
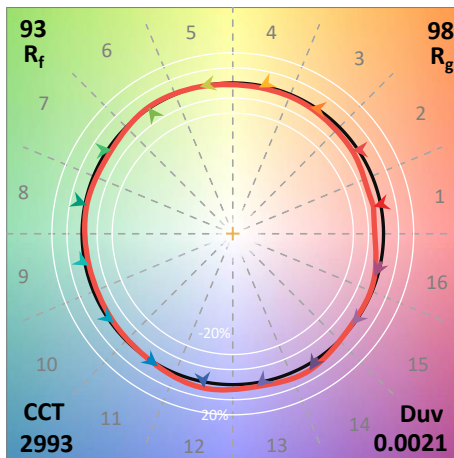
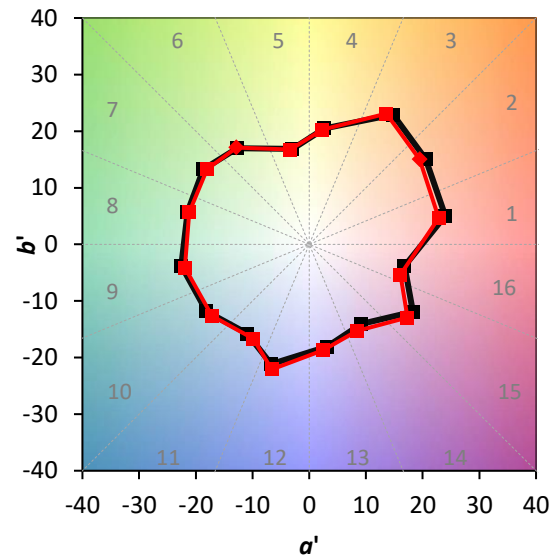
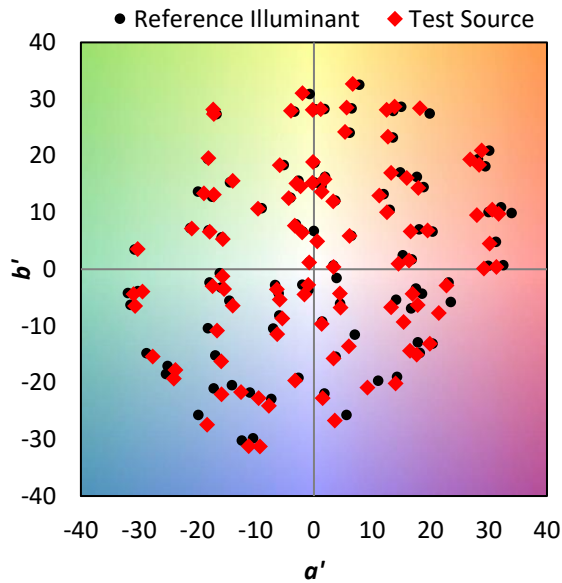
TM-30-18

### Summary

$R_f = 92.6$   
 $R_g = 98.5$   
 $CIE R_a = 92.4$   
 $R_9 = 58.2$

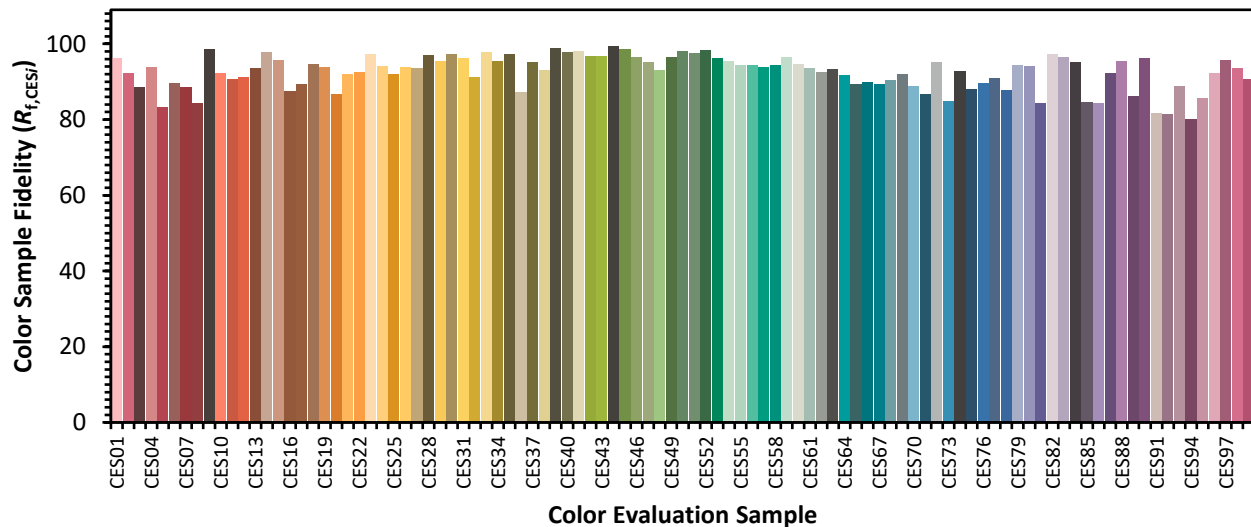


### Color Vector Graphics

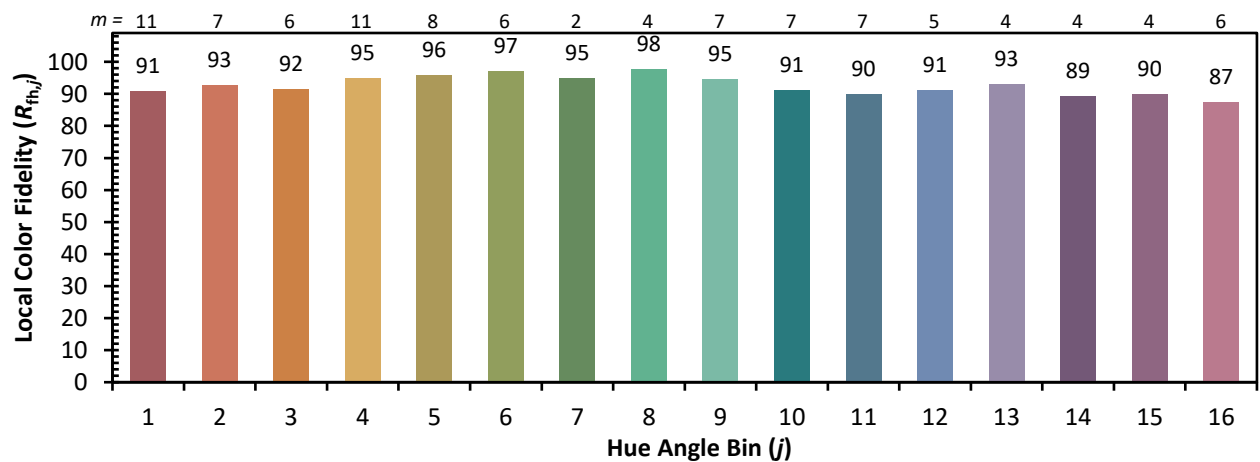
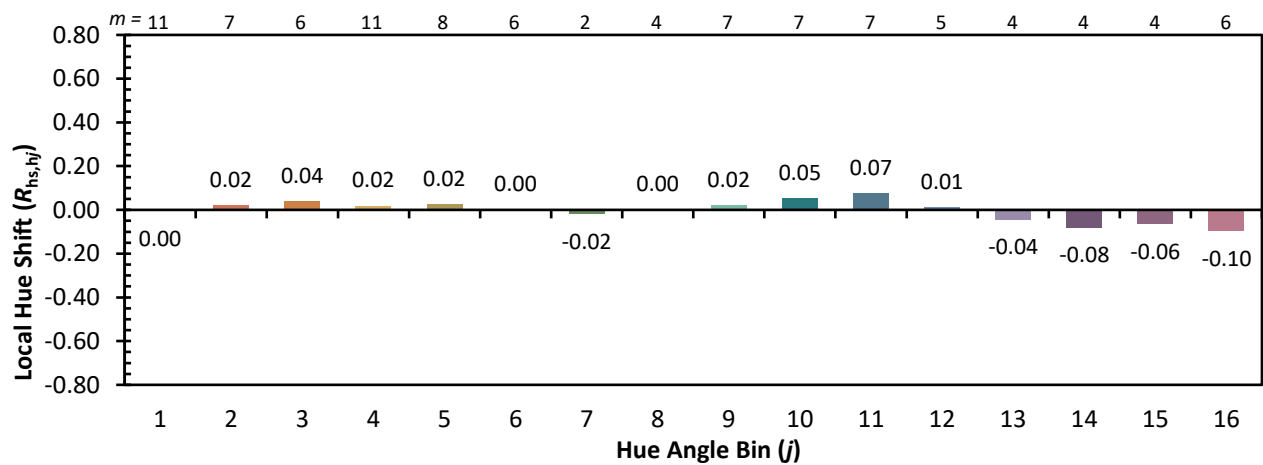
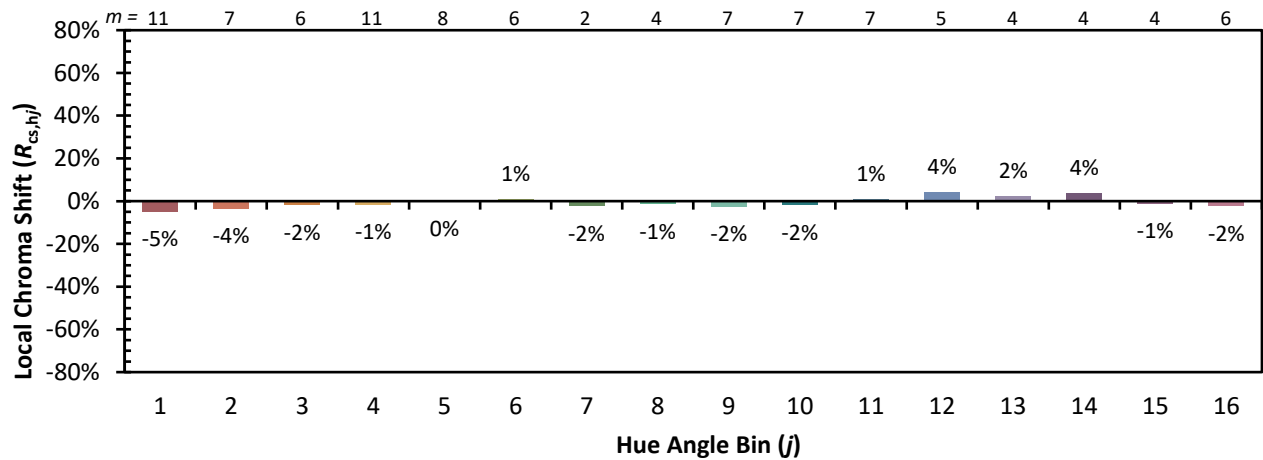


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

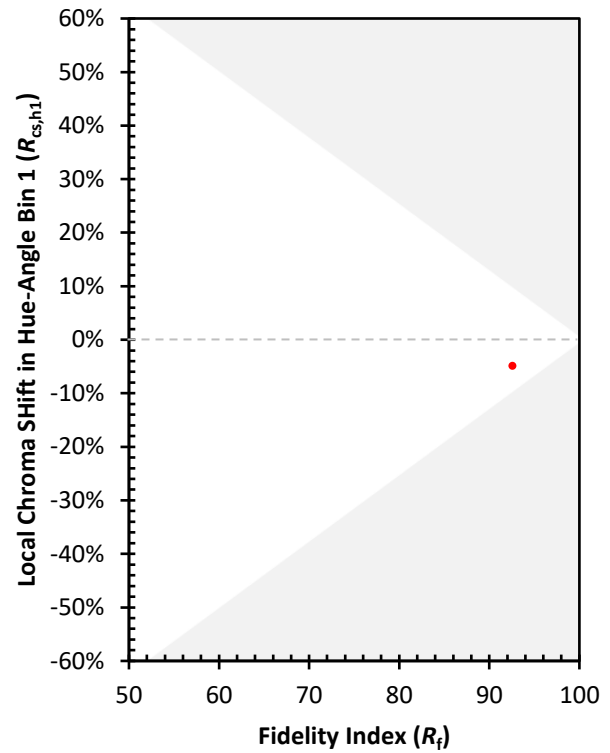
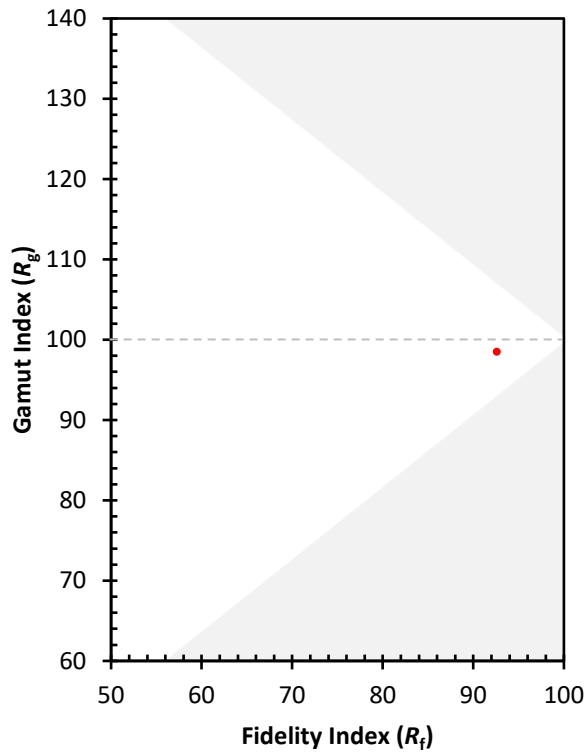
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 94 | CES51 = 98 | CES76 = 90 |
| CES02 = 63 | CES27 = 94 | CES52 = 98 | CES77 = 91 |
| CES03 = 32 | CES28 = 97 | CES53 = 96 | CES78 = 88 |
| CES04 = 70 | CES29 = 95 | CES54 = 95 | CES79 = 94 |
| CES05 = 51 | CES30 = 97 | CES55 = 94 | CES80 = 94 |
| CES06 = 51 | CES31 = 96 | CES56 = 94 | CES81 = 84 |
| CES07 = 43 | CES32 = 91 | CES57 = 94 | CES82 = 97 |
| CES08 = 42 | CES33 = 98 | CES58 = 94 | CES83 = 97 |
| CES09 = 29 | CES34 = 96 | CES59 = 97 | CES84 = 95 |
| CES10 = 76 | CES35 = 97 | CES60 = 95 | CES85 = 85 |
| CES11 = 59 | CES36 = 87 | CES61 = 94 | CES86 = 84 |
| CES12 = 65 | CES37 = 95 | CES62 = 92 | CES87 = 92 |
| CES13 = 44 | CES38 = 93 | CES63 = 93 | CES88 = 95 |
| CES14 = 74 | CES39 = 99 | CES64 = 92 | CES89 = 86 |
| CES15 = 72 | CES40 = 98 | CES65 = 89 | CES90 = 96 |
| CES16 = 48 | CES41 = 98 | CES66 = 90 | CES91 = 82 |
| CES17 = 50 | CES42 = 97 | CES67 = 89 | CES92 = 81 |
| CES18 = 57 | CES43 = 97 | CES68 = 90 | CES93 = 89 |
| CES19 = 72 | CES44 = 99 | CES69 = 92 | CES94 = 80 |
| CES20 = 67 | CES45 = 99 | CES70 = 89 | CES95 = 86 |
| CES21 = 86 | CES46 = 96 | CES71 = 87 | CES96 = 92 |
| CES22 = 79 | CES47 = 95 | CES72 = 95 | CES97 = 96 |
| CES23 = 92 | CES48 = 93 | CES73 = 85 | CES98 = 94 |
| CES24 = 91 | CES49 = 97 | CES74 = 93 | CES99 = 91 |
| CES25 = 72 | CES50 = 98 | CES75 = 88 |            |



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)