

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: P1065662

Luminaire Tested: **GLAN-SA7B-940-U-LBC**

Issue Date: 08/07/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1065662  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 08/07/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7B-940-U-LBC  
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 7xLight Square PACKAGE  
90CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (98) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20829.2 lumens  
Efficiency: N/A  
Efficacy: 83.5 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

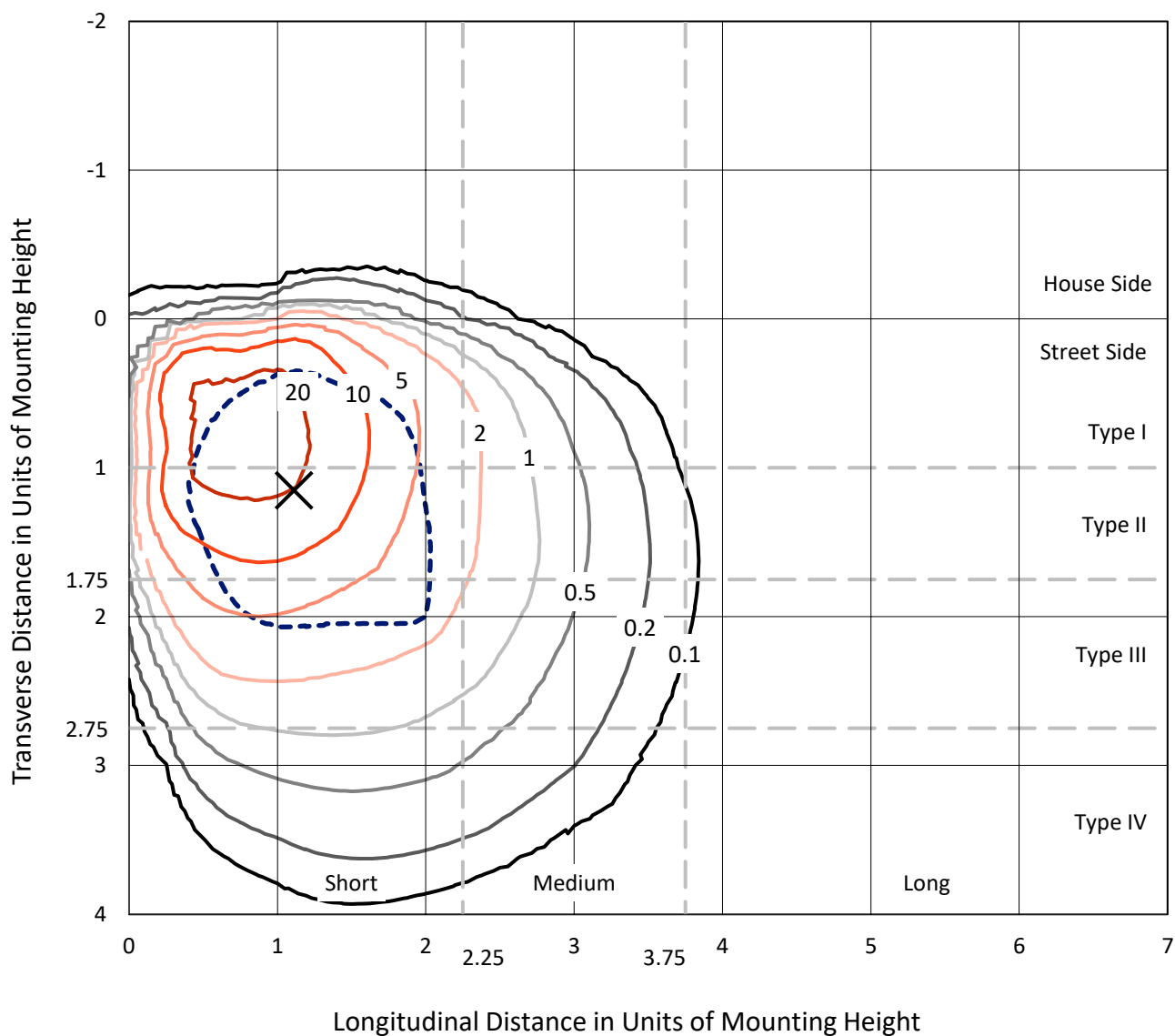
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

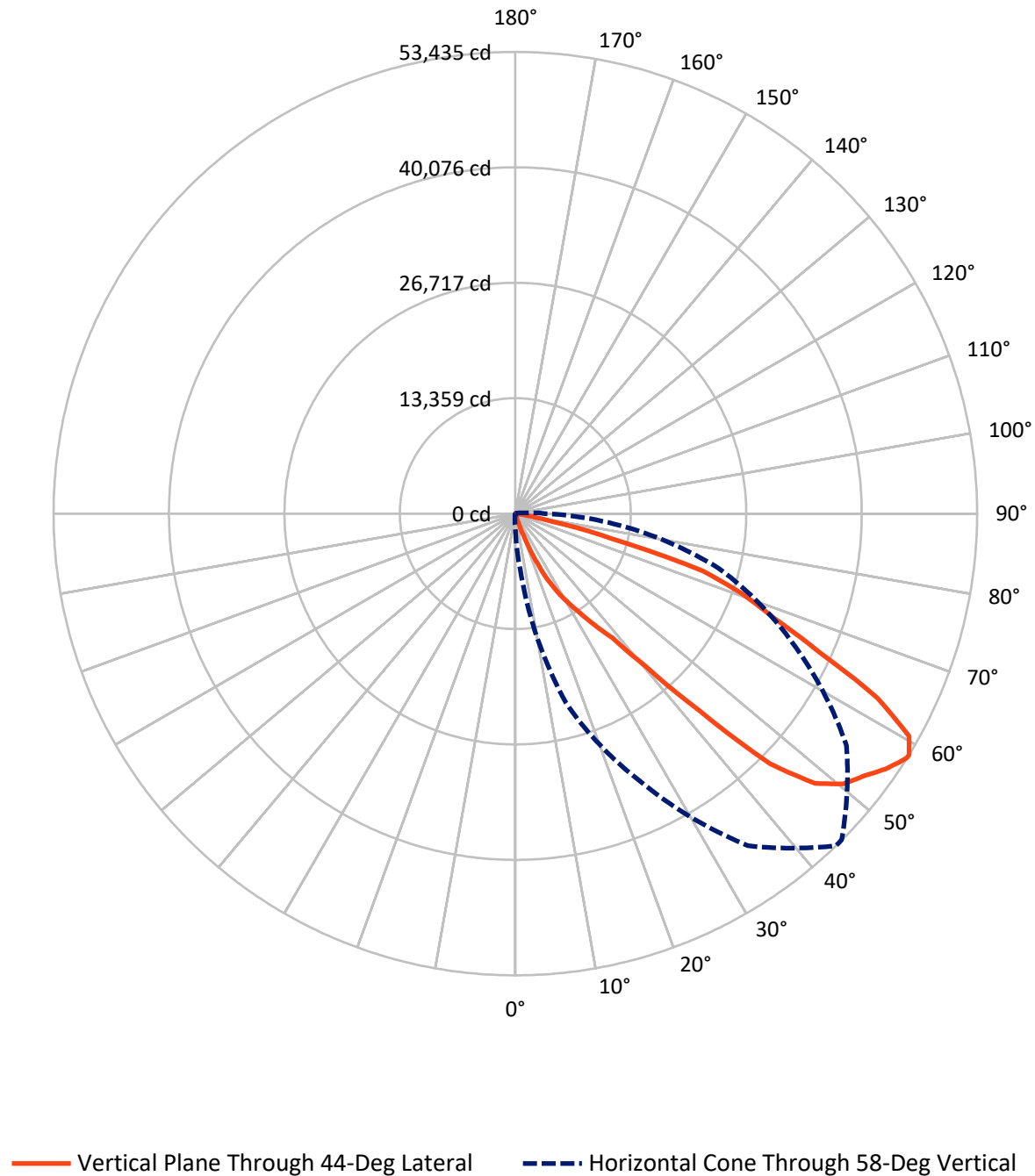


Based on 20 foot mounting height. Maximum calculated value = 36.3 fc

Type III - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 142.2    | 0.0    | 142.2   |
|                    | % Fixture | 0.7      | 0.0    | 0.7     |
| <b>Street Side</b> | Lumens    | 20686.9  | 0.0    | 20686.9 |
|                    | % Fixture | 99.3     | 0.0    | 99.3    |
| <b>Total</b>       | Lumens    | 20829.2  | 0.0    | 20829.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 8.1     | 0.0       |
| 10°-20°   | 45.7    | 0.2       |
| 20°-30°   | 493.4   | 2.4       |
| 30°-40°   | 1459.3  | 7.0       |
| 40°-50°   | 4349.5  | 20.9      |
| 50°-60°   | 6901.5  | 33.1      |
| 60°-70°   | 5756.7  | 27.6      |
| 70°-80°   | 1775.5  | 8.5       |
| 80°-90°   | 39.4    | 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°    | 20829.2 | 100.0     |
| 0°-180°   | 20829.2 | 100.0     |



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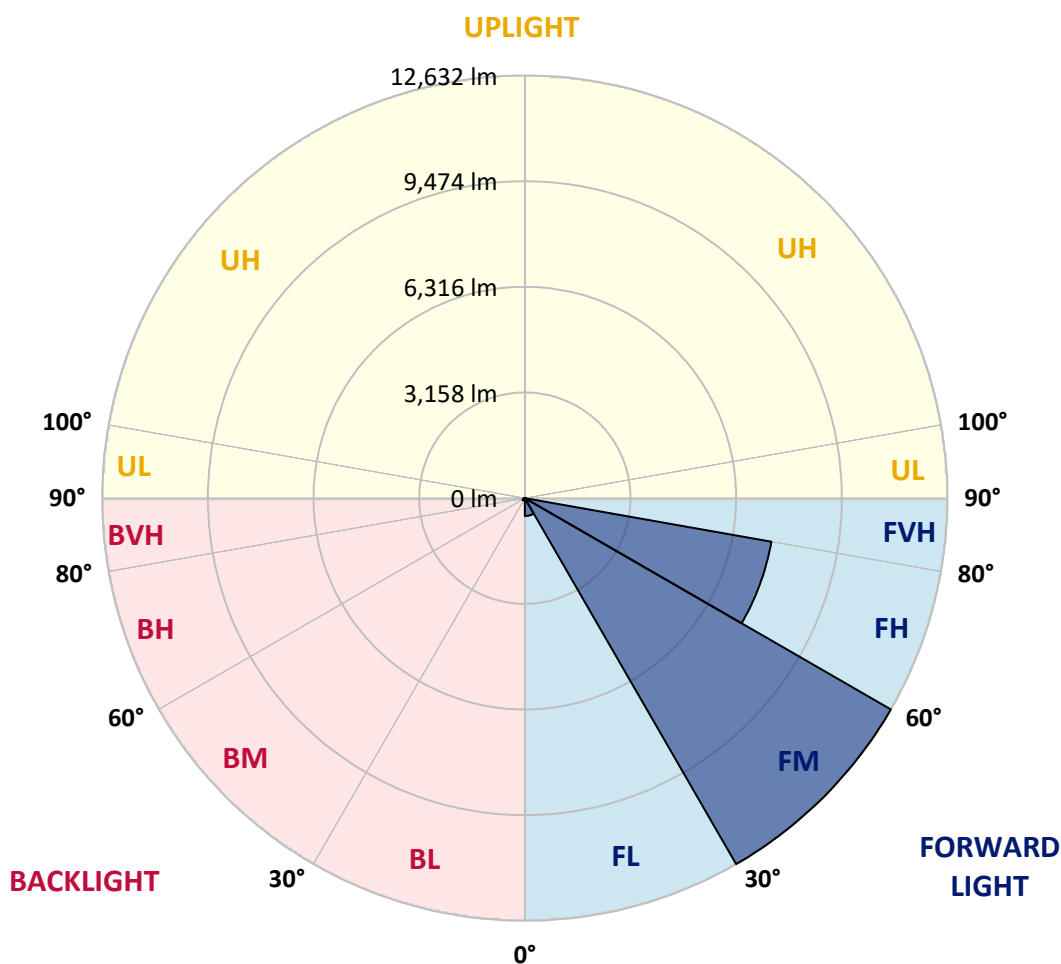
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 533.4   | 2.6       |                         |      |         |
| FM   | (30°-60°)   | 12632.4 | 60.6      |                         |      |         |
| FH   | (60°-80°)   | 7483.6  | 35.9      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 37.5    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 13.9    | 0.1       | B0/110                  |      |         |
| BM   | (30°-60°)   | 77.8    | 0.4       | B0/220                  |      |         |
| BH   | (60°-80°)   | 48.6    | 0.2       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 1.9     | 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°    | 91.3   | 91.3   | 91.3    | 91.3    | 91.3    | 91.3    | 91.3    | 91.3    | 91.3    | 91.3    |
| 2.5°  | 118.0  | 118.0  | 113.3   | 107.0   | 100.7   | 94.4    | 92.8    | 89.7    | 88.1    | 86.5    |
| 5°    | 122.7  | 122.7  | 121.2   | 116.4   | 110.1   | 105.4   | 105.4   | 100.7   | 97.6    | 94.4    |
| 7.5°  | 125.9  | 127.5  | 130.6   | 129.0   | 125.9   | 121.2   | 121.2   | 118.0   | 113.3   | 105.4   |
| 10°   | 130.6  | 135.3  | 141.6   | 144.8   | 146.3   | 146.3   | 144.8   | 143.2   | 135.3   | 124.3   |
| 12.5° | 135.3  | 144.8  | 160.5   | 176.2   | 185.7   | 198.3   | 196.7   | 193.5   | 173.1   | 149.5   |
| 15°   | 144.8  | 158.9  | 192.0   | 237.6   | 308.4   | 352.5   | 369.8   | 354.0   | 286.4   | 201.4   |
| 17.5° | 155.8  | 179.4  | 278.5   | 497.2   | 815.1   | 966.1   | 1057.4  | 983.4   | 651.4   | 382.4   |
| 20°   | 166.8  | 218.7  | 517.7   | 1288.7  | 2114.7  | 2608.8  | 2745.7  | 2531.7  | 1625.4  | 728.5   |
| 22.5° | 185.7  | 306.8  | 1049.5  | 2663.9  | 4556.8  | 5297.9  | 5437.9  | 4753.4  | 3069.8  | 1438.1  |
| 25°   | 225.0  | 445.3  | 1809.5  | 4341.2  | 6800.5  | 8051.4  | 7993.2  | 7096.3  | 4980.0  | 2297.3  |
| 27.5° | 281.7  | 648.3  | 2736.3  | 6168.0  | 8949.9  | 10052.9 | 10185.0 | 9075.7  | 6638.5  | 3378.2  |
| 30°   | 363.5  | 898.4  | 3730.7  | 7631.3  | 10672.8 | 11865.5 | 11887.5 | 10740.5 | 8122.2  | 4327.0  |
| 32.5° | 442.1  | 1134.5 | 4600.8  | 9045.9  | 12370.6 | 13678.1 | 13775.7 | 12364.3 | 9229.9  | 5315.2  |
| 35°   | 501.9  | 1288.7 | 5482.0  | 10288.9 | 14082.5 | 15884.1 | 15877.8 | 14202.1 | 10542.2 | 6197.9  |
| 37.5° | 506.7  | 1442.9 | 6279.7  | 11560.3 | 16250.8 | 18267.9 | 18467.8 | 16620.5 | 12128.3 | 7289.9  |
| 40°   | 495.6  | 1615.9 | 7289.9  | 13542.8 | 20157.7 | 23252.7 | 23428.9 | 21100.2 | 15309.8 | 9159.1  |
| 42.5° | 508.2  | 1916.5 | 8929.4  | 17204.3 | 26645.1 | 31090.1 | 31430.0 | 28981.7 | 21158.4 | 12973.2 |
| 45°   | 574.3  | 2481.4 | 12364.3 | 23329.8 | 35892.3 | 41311.3 | 41198.0 | 37671.9 | 27963.6 | 18779.3 |
| 47.5° | 793.0  | 3864.4 | 17456.0 | 29291.6 | 41802.3 | 46628.1 | 46725.6 | 42415.9 | 31935.1 | 23243.2 |
| 50°   | 1219.4 | 5913.1 | 21734.3 | 32443.3 | 44343.4 | 49185.0 | 49093.7 | 44113.7 | 33444.0 | 25441.4 |
| 52.5° | 1586.1 | 7395.3 | 23880.5 | 33549.4 | 44669.1 | 50448.4 | 50442.2 | 44560.5 | 33678.5 | 25630.2 |
| 55°   | 1677.3 | 7507.0 | 23897.8 | 33609.2 | 45399.2 | 52102.2 | 52309.9 | 45660.4 | 33982.1 | 24805.7 |
| 57.5° | 1641.1 | 6646.3 | 22900.2 | 33955.4 | 46698.9 | 53381.4 | 53392.4 | 46725.6 | 34753.1 | 24300.6 |
| 58°   | 1609.7 | 6511.0 | 22698.8 | 34152.1 | 46922.3 | 53434.9 | 53408.1 | 46774.4 | 35380.9 | 24281.7 |
| 60°   | 1433.4 | 5653.5 | 21913.7 | 34654.0 | 46590.3 | 52336.6 | 52086.4 | 45709.2 | 35288.1 | 24088.2 |
| 62.5° | 1126.6 | 4410.4 | 21141.1 | 34073.4 | 43031.1 | 47019.9 | 47123.7 | 40468.0 | 32169.5 | 22960.0 |
| 65°   | 896.9  | 3287.0 | 19529.9 | 29888.0 | 35434.4 | 38612.8 | 38999.9 | 32907.5 | 26851.2 | 19441.7 |
| 67.5° | 714.4  | 2375.9 | 16382.9 | 23795.5 | 28039.2 | 32226.1 | 32507.8 | 27628.5 | 20802.8 | 14896.0 |
| 70°   | 580.6  | 1606.5 | 11308.5 | 17402.5 | 23126.8 | 27834.6 | 27851.9 | 22952.1 | 15527.0 | 9760.2  |
| 72.5° | 514.5  | 1112.4 | 6564.5  | 12691.6 | 18752.6 | 22681.5 | 22223.6 | 18625.1 | 11933.2 | 5780.9  |
| 75°   | 445.3  | 738.0  | 3219.3  | 7758.8  | 11369.9 | 11447.0 | 11621.6 | 8639.9  | 5965.0  | 2748.8  |
| 77.5° | 366.6  | 524.0  | 1268.2  | 2119.5  | 3409.7  | 4364.8  | 4526.9  | 3430.2  | 1984.1  | 676.6   |
| 80°   | 251.8  | 248.6  | 341.4   | 649.8   | 975.5   | 1222.6  | 1140.8  | 882.7   | 519.2   | 259.6   |
| 82.5° | 108.6  | 118.0  | 154.2   | 185.7   | 151.1   | 146.3   | 140.0   | 89.7    | 69.2    | 53.5    |
| 85°   | 34.6   | 31.5   | 33.0    | 33.0    | 26.7    | 20.5    | 20.5    | 9.4     | 0.0     | 0.0     |
| 87.5° | 17.3   | 14.2   | 14.2    | 12.6    | 7.9     | 3.1     | 1.6     | 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° |
|---------|-------|--------|-------|-------|------|------|------|------|------|------|------|
| 91.3    | 0°    | 91.3   | 91.3  | 91.3  | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 |
| 85.0    | 2.5°  | 83.4   | 83.4  | 80.2  | 77.1 | 75.5 | 72.4 | 70.8 | 69.2 | 67.7 | 66.1 |
| 91.3    | 5°    | 88.1   | 86.5  | 81.8  | 77.1 | 72.4 | 67.7 | 64.5 | 61.4 | 58.2 | 56.6 |
| 100.7   | 7.5°  | 96.0   | 92.8  | 83.4  | 75.5 | 69.2 | 62.9 | 59.8 | 55.1 | 51.9 | 47.2 |
| 111.7   | 10°   | 105.4  | 99.1  | 86.5  | 77.1 | 67.7 | 59.8 | 55.1 | 50.4 | 45.6 | 39.3 |
| 127.5   | 12.5° | 118.0  | 107.0 | 91.3  | 75.5 | 64.5 | 55.1 | 50.4 | 44.1 | 39.3 | 34.6 |
| 147.9   | 15°   | 129.0  | 114.9 | 92.8  | 75.5 | 61.4 | 50.4 | 44.1 | 37.8 | 33.0 | 26.7 |
| 185.7   | 17.5° | 144.8  | 121.2 | 91.3  | 70.8 | 56.6 | 44.1 | 37.8 | 33.0 | 25.2 | 15.7 |
| 275.4   | 20°   | 171.5  | 125.9 | 88.1  | 66.1 | 48.8 | 36.2 | 28.3 | 22.0 | 11.0 | 3.1  |
| 413.8   | 22.5° | 214.0  | 138.5 | 85.0  | 59.8 | 42.5 | 28.3 | 18.9 | 7.9  | 0.0  | 0.0  |
| 629.4   | 25°   | 295.8  | 160.5 | 85.0  | 56.6 | 37.8 | 20.5 | 6.3  | 0.0  | 0.0  | 0.0  |
| 893.7   | 27.5° | 393.4  | 190.4 | 85.0  | 48.8 | 29.9 | 11.0 | 0.0  | 0.0  | 0.0  | 0.0  |
| 1217.9  | 30°   | 492.5  | 223.4 | 85.0  | 42.5 | 23.6 | 1.6  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1499.5  | 32.5° | 586.9  | 251.8 | 86.5  | 36.2 | 15.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1889.7  | 35°   | 682.9  | 256.5 | 85.0  | 31.5 | 9.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2368.1  | 37.5° | 805.6  | 247.0 | 80.2  | 28.3 | 4.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 3115.5  | 40°   | 991.3  | 251.8 | 75.5  | 26.7 | 1.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 4448.2  | 42.5° | 1334.3 | 272.2 | 69.2  | 26.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 7085.3  | 45°   | 2306.7 | 365.0 | 62.9  | 28.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 10636.6 | 47.5° | 3815.7 | 656.1 | 61.4  | 28.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 12812.7 | 50°   | 4869.9 | 826.1 | 64.5  | 29.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 13084.9 | 52.5° | 4862.0 | 920.5 | 67.7  | 31.5 | 6.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 12060.6 | 55°   | 4322.3 | 937.8 | 72.4  | 34.6 | 20.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 10364.4 | 57.5° | 3612.7 | 856.0 | 83.4  | 42.5 | 37.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 10098.5 | 58°   | 3486.8 | 818.2 | 86.5  | 44.1 | 40.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 8759.5  | 60°   | 2857.4 | 667.1 | 110.1 | 55.1 | 55.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 7181.3  | 62.5° | 1973.1 | 582.2 | 125.9 | 70.8 | 56.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5294.7  | 65°   | 1395.7 | 525.5 | 136.9 | 75.5 | 45.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 3762.2  | 67.5° | 1043.2 | 484.6 | 151.1 | 77.1 | 23.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2360.2  | 70°   | 799.3  | 454.7 | 185.7 | 81.8 | 6.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1406.7  | 72.5° | 651.4  | 420.1 | 225.0 | 85.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 843.4   | 75°   | 539.7  | 379.2 | 217.1 | 92.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 450.0   | 77.5° | 358.8  | 294.2 | 198.3 | 92.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160.5   | 80°   | 125.9  | 116.4 | 154.2 | 81.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 33.0    | 82.5° | 18.9   | 15.7  | 22.0  | 28.3 | 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°  |
|------|-------|------|------|------|------|------|------|------|------|------|-------|
| 91.3 | 0°    | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3  |
| 64.5 | 2.5°  | 64.5 | 64.5 | 62.9 | 64.5 | 64.5 | 67.7 | 75.5 | 86.5 | 99.1 | 103.8 |
| 55.1 | 5°    | 53.5 | 51.9 | 50.4 | 50.4 | 50.4 | 55.1 | 61.4 | 74.0 | 88.1 | 94.4  |
| 45.6 | 7.5°  | 44.1 | 42.5 | 40.9 | 39.3 | 39.3 | 42.5 | 50.4 | 64.5 | 78.7 | 85.0  |
| 37.8 | 10°   | 36.2 | 33.0 | 31.5 | 29.9 | 29.9 | 33.0 | 40.9 | 55.1 | 70.8 | 77.1  |
| 31.5 | 12.5° | 29.9 | 25.2 | 22.0 | 20.5 | 18.9 | 23.6 | 31.5 | 44.1 | 61.4 | 69.2  |
| 23.6 | 15°   | 20.5 | 15.7 | 11.0 | 9.4  | 7.9  | 12.6 | 20.5 | 34.6 | 51.9 | 61.4  |
| 12.6 | 17.5° | 11.0 | 4.7  | 1.6  | 0.0  | 0.0  | 3.1  | 9.4  | 25.2 | 42.5 | 50.4  |
| 0.0  | 20°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 12.6 | 31.5 | 39.3  |
| 0.0  | 22.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.6  | 18.9 | 26.7  |
| 0.0  | 25°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.9  | 14.2  |
| 0.0  | 27.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.1   |
| 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  | 4.7   |
| 0.0  | 87.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.3  | 12.6  |
| 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: P1065662

CATALOG NUMBER: GLAN-SA7B-940-U-LBC

**CANDELA DISTRIBUTION (continued):**

| 275°  |       | 285°  | 295°  | 305°  | 315°  | 316°  | 325°  | 335°  | 345°  | 355°  | 360°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 91.3  | 0°    | 91.3  | 91.3  | 91.3  | 91.3  | 91.3  | 91.3  | 91.3  | 91.3  | 91.3  | 91.3   |
| 108.6 | 2.5°  | 111.7 | 110.1 | 107.0 | 103.8 | 103.8 | 103.8 | 108.6 | 113.3 | 118.0 | 118.0  |
| 97.6  | 5°    | 103.8 | 103.8 | 102.3 | 99.1  | 99.1  | 100.7 | 107.0 | 114.9 | 121.2 | 122.7  |
| 89.7  | 7.5°  | 96.0  | 99.1  | 96.0  | 94.4  | 96.0  | 97.6  | 103.8 | 113.3 | 122.7 | 125.9  |
| 83.4  | 10°   | 91.3  | 92.8  | 92.8  | 91.3  | 91.3  | 94.4  | 100.7 | 113.3 | 125.9 | 130.6  |
| 75.5  | 12.5° | 85.0  | 88.1  | 86.5  | 86.5  | 86.5  | 89.7  | 97.6  | 111.7 | 129.0 | 135.3  |
| 67.7  | 15°   | 78.7  | 83.4  | 83.4  | 81.8  | 81.8  | 83.4  | 94.4  | 110.1 | 133.7 | 144.8  |
| 58.2  | 17.5° | 72.4  | 77.1  | 78.7  | 75.5  | 75.5  | 78.7  | 89.7  | 110.1 | 136.9 | 155.8  |
| 47.2  | 20°   | 59.8  | 67.7  | 72.4  | 67.7  | 67.7  | 70.8  | 81.8  | 103.8 | 138.5 | 166.8  |
| 34.6  | 22.5° | 47.2  | 55.1  | 61.4  | 59.8  | 59.8  | 61.4  | 75.5  | 99.1  | 140.0 | 185.7  |
| 20.5  | 25°   | 34.6  | 42.5  | 47.2  | 50.4  | 50.4  | 55.1  | 69.2  | 96.0  | 146.3 | 225.0  |
| 9.4   | 27.5° | 20.5  | 29.9  | 36.2  | 39.3  | 40.9  | 47.2  | 64.5  | 92.8  | 157.3 | 281.7  |
| 0.0   | 30°   | 9.4   | 17.3  | 25.2  | 31.5  | 31.5  | 42.5  | 59.8  | 89.7  | 171.5 | 363.5  |
| 0.0   | 32.5° | 0.0   | 7.9   | 12.6  | 22.0  | 23.6  | 34.6  | 55.1  | 86.5  | 192.0 | 442.1  |
| 0.0   | 35°   | 0.0   | 0.0   | 6.3   | 17.3  | 17.3  | 28.3  | 50.4  | 83.4  | 223.4 | 501.9  |
| 0.0   | 37.5° | 0.0   | 0.0   | 0.0   | 12.6  | 14.2  | 25.2  | 48.8  | 81.8  | 229.7 | 506.7  |
| 0.0   | 40°   | 0.0   | 0.0   | 0.0   | 9.4   | 11.0  | 23.6  | 48.8  | 83.4  | 207.7 | 495.6  |
| 0.0   | 42.5° | 0.0   | 0.0   | 0.0   | 6.3   | 7.9   | 23.6  | 48.8  | 86.5  | 187.2 | 508.2  |
| 0.0   | 45°   | 0.0   | 0.0   | 0.0   | 4.7   | 6.3   | 25.2  | 47.2  | 85.0  | 176.2 | 574.3  |
| 0.0   | 47.5° | 0.0   | 0.0   | 0.0   | 6.3   | 9.4   | 25.2  | 45.6  | 83.4  | 177.8 | 793.0  |
| 0.0   | 50°   | 0.0   | 0.0   | 0.0   | 7.9   | 11.0  | 25.2  | 47.2  | 80.2  | 195.1 | 1219.4 |
| 0.0   | 52.5° | 0.0   | 0.0   | 0.0   | 6.3   | 9.4   | 28.3  | 51.9  | 78.7  | 212.4 | 1586.1 |
| 0.0   | 55°   | 0.0   | 0.0   | 0.0   | 1.6   | 4.7   | 36.2  | 56.6  | 78.7  | 239.2 | 1677.3 |
| 0.0   | 57.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 40.9  | 64.5  | 83.4  | 283.2 | 1641.1 |
| 0.0   | 58°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 40.9  | 66.1  | 83.4  | 286.4 | 1609.7 |
| 0.0   | 60°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 40.9  | 72.4  | 92.8  | 308.4 | 1433.4 |
| 0.0   | 62.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 34.6  | 86.5  | 116.4 | 321.0 | 1126.6 |
| 0.0   | 65°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 28.3  | 102.3 | 127.5 | 330.4 | 896.9  |
| 0.0   | 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 26.7  | 105.4 | 129.0 | 335.1 | 714.4  |
| 0.0   | 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 28.3  | 103.8 | 138.5 | 350.9 | 580.6  |
| 0.0   | 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 31.5  | 94.4  | 152.6 | 350.9 | 514.5  |
| 0.0   | 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 33.0  | 88.1  | 171.5 | 319.4 | 445.3  |
| 0.0   | 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 31.5  | 86.5  | 199.8 | 284.8 | 366.6  |
| 0.0   | 80°   | 3.1   | 4.7   | 4.7   | 3.1   | 3.1   | 26.7  | 85.0  | 203.0 | 242.3 | 251.8  |
| 1.6   | 82.5° | 9.4   | 12.6  | 11.0  | 7.9   | 7.9   | 23.6  | 75.5  | 169.9 | 125.9 | 108.6  |
| 9.4   | 85°   | 17.3  | 20.5  | 20.5  | 17.3  | 17.3  | 22.0  | 47.2  | 61.4  | 42.5  | 34.6   |
| 17.3  | 87.5° | 23.6  | 26.7  | 26.7  | 23.6  | 23.6  | 22.0  | 20.5  | 18.9  | 17.3  | 17.3   |
| 0.0   | 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |

(END OF RI



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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-16

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-940-U-5WQ

Data in this report applies to families of products including GSS-SB1A-940-U-5WQ

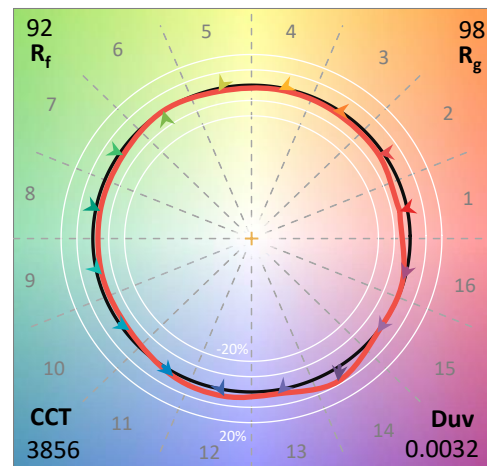
### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2407-184-16  
 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-940-U-5WQ**  
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI  
 4000K CCT 26 LEDS

### Spectral Parameters

CCT (K): 3856  
 CIE  $u'$ : 0.2261  
 CIE  $v'$ : 0.5084  
 Duv: 0.0032  
 CIE x: 0.3896  
 CIE y: 0.3894  
 CIE z: 0.2211  
 Peak Wavelength (nm): 614  
 Dominant Wavelength (nm): 578  
 Purity: 33.77304  
 R<sub>f</sub>: 91.8  
 R<sub>g</sub>: 98.4

CRI (Ra): 92.1  
 R1: 91.8  
 R2: 94.1  
 R3: 95.3  
 R4: 92.8  
 R5: 91.0  
 R6: 91.6  
 R7: 95.0  
 R8: 85.2  
 R9: 60.7  
 R10: 85.2  
 R11: 92.4  
 R12: 74.5  
 R13: 92.3  
 R14: 97.0  
 R15: 88.5



### Test Conditions

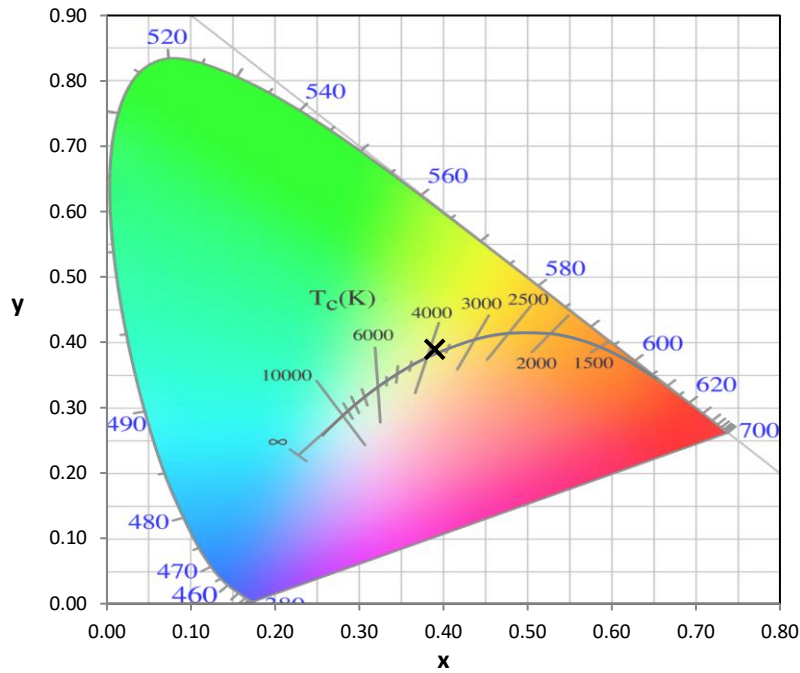
Stabilization Time: 23M  
 Operation Time: 1H 23M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-16

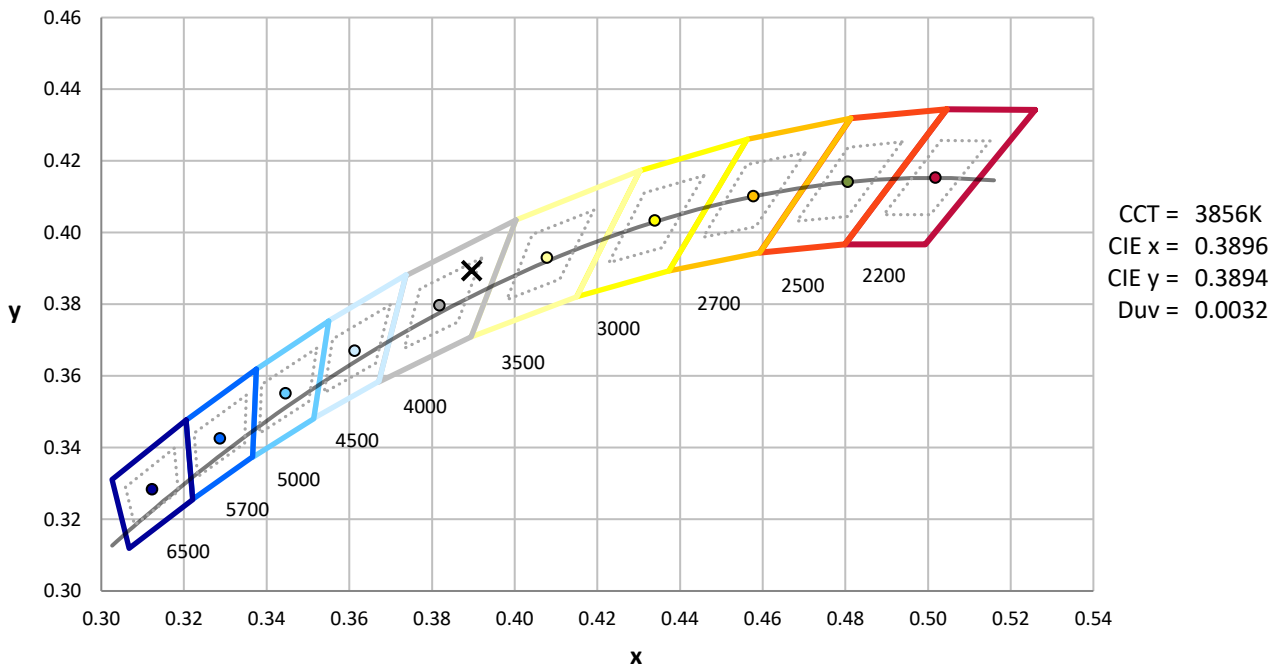
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| 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: SP1-2407-184-16

**CIE 1931 Chromaticity Diagram**



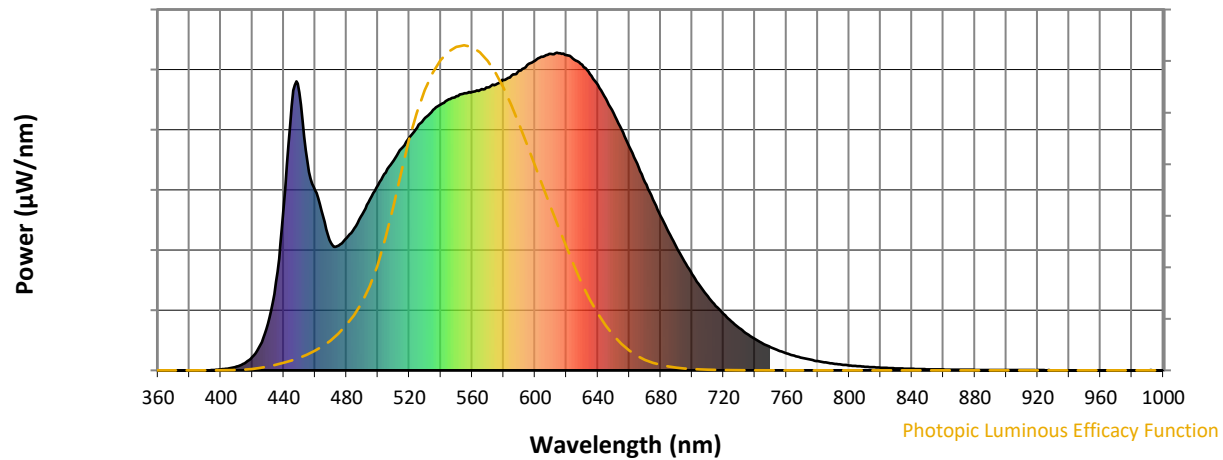
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-16

### Photopic Flux vs. Wavelength

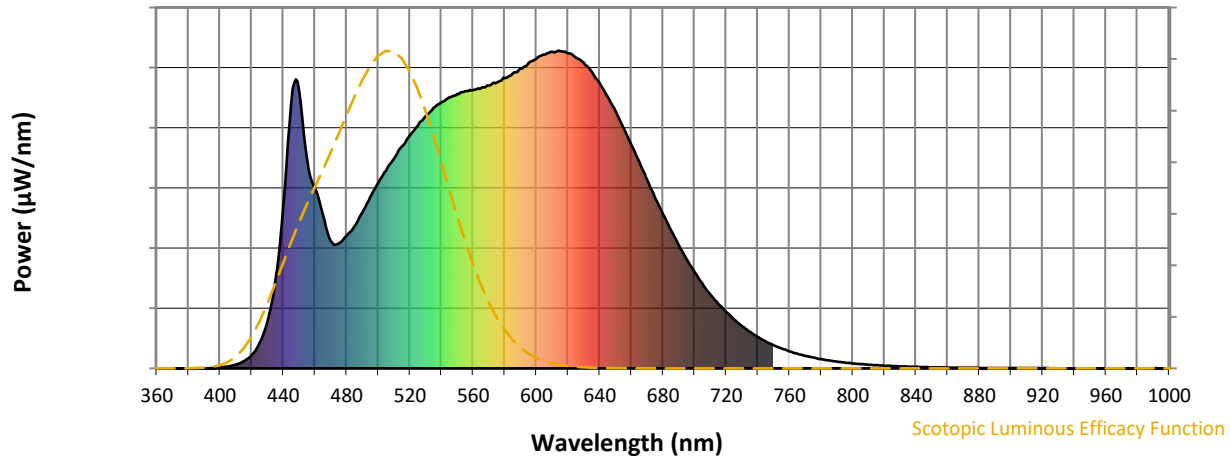


### Photopic Lumens: NR

| $\lambda$<br>(nm) | Power<br>$\text{W}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) |
|-------------------|-------------------------------|--------------------------------|-------------------|-------------------------------|--------------------------------|-------------------|-------------------------------|--------------------------------|-------------------|-------------------------------|--------------------------------|-------------------|-------------------------------|--------------------------------|
| 360               | 0                             | NR                             | 490               | 492                           | NR                             | 620               | 993                           | NR                             | 750               | 73                            | NR                             | 880               | 1                             | NR                             |
| 365               | 0                             | NR                             | 495               | 539                           | NR                             | 625               | 978                           | NR                             | 755               | 62                            | NR                             | 885               | 1                             | NR                             |
| 370               | 0                             | NR                             | 500               | 583                           | NR                             | 630               | 962                           | NR                             | 760               | 54                            | NR                             | 890               | 1                             | NR                             |
| 375               | 0                             | NR                             | 505               | 623                           | NR                             | 635               | 933                           | NR                             | 765               | 46                            | NR                             | 895               | 1                             | NR                             |
| 380               | 0                             | NR                             | 510               | 661                           | NR                             | 640               | 898                           | NR                             | 770               | 39                            | NR                             | 900               | 1                             | NR                             |
| 385               | 0                             | NR                             | 515               | 698                           | NR                             | 645               | 855                           | NR                             | 775               | 34                            | NR                             | 905               | 1                             | NR                             |
| 390               | 0                             | NR                             | 520               | 733                           | NR                             | 650               | 810                           | NR                             | 780               | 29                            | NR                             | 910               | 1                             | NR                             |
| 395               | 1                             | NR                             | 525               | 764                           | NR                             | 655               | 759                           | NR                             | 785               | 25                            | NR                             | 915               | 1                             | NR                             |
| 400               | 3                             | NR                             | 530               | 794                           | NR                             | 660               | 704                           | NR                             | 790               | 21                            | NR                             | 920               | 1                             | NR                             |
| 405               | 6                             | NR                             | 535               | 820                           | NR                             | 665               | 651                           | NR                             | 795               | 18                            | NR                             | 925               | 1                             | NR                             |
| 410               | 12                            | NR                             | 540               | 837                           | NR                             | 670               | 592                           | NR                             | 800               | 16                            | NR                             | 930               | 1                             | NR                             |
| 415               | 22                            | NR                             | 545               | 853                           | NR                             | 675               | 538                           | NR                             | 805               | 13                            | NR                             | 935               | 0                             | NR                             |
| 420               | 42                            | NR                             | 550               | 864                           | NR                             | 680               | 486                           | NR                             | 810               | 12                            | NR                             | 940               | 0                             | NR                             |
| 425               | 79                            | NR                             | 555               | 872                           | NR                             | 685               | 435                           | NR                             | 815               | 10                            | NR                             | 945               | 0                             | NR                             |
| 430               | 147                           | NR                             | 560               | 876                           | NR                             | 690               | 389                           | NR                             | 820               | 9                             | NR                             | 950               | 0                             | NR                             |
| 435               | 278                           | NR                             | 565               | 883                           | NR                             | 695               | 344                           | NR                             | 825               | 7                             | NR                             | 955               | 0                             | NR                             |
| 440               | 515                           | NR                             | 570               | 891                           | NR                             | 700               | 303                           | NR                             | 830               | 6                             | NR                             | 960               | 0                             | NR                             |
| 445               | 832                           | NR                             | 575               | 900                           | NR                             | 705               | 266                           | NR                             | 835               | 5                             | NR                             | 965               | 0                             | NR                             |
| 450               | 874                           | NR                             | 580               | 914                           | NR                             | 710               | 233                           | NR                             | 840               | 5                             | NR                             | 970               | 0                             | NR                             |
| 455               | 659                           | NR                             | 585               | 927                           | NR                             | 715               | 203                           | NR                             | 845               | 4                             | NR                             | 975               | 0                             | NR                             |
| 460               | 567                           | NR                             | 590               | 944                           | NR                             | 720               | 178                           | NR                             | 850               | 4                             | NR                             | 980               | 0                             | NR                             |
| 465               | 485                           | NR                             | 595               | 961                           | NR                             | 725               | 154                           | NR                             | 855               | 3                             | NR                             | 985               | 0                             | NR                             |
| 470               | 401                           | NR                             | 600               | 975                           | NR                             | 730               | 133                           | NR                             | 860               | 3                             | NR                             | 990               | 0                             | NR                             |
| 475               | 393                           | NR                             | 605               | 988                           | NR                             | 735               | 115                           | NR                             | 865               | 2                             | NR                             | 995               | 1                             | NR                             |
| 480               | 417                           | NR                             | 610               | 996                           | NR                             | 740               | 98                            | NR                             | 870               | 2                             | NR                             | 1000              | 0                             | NR                             |
| 485               | 448                           | NR                             | 615               | 998                           | NR                             | 745               | 85                            | NR                             | 875               | 2                             | NR                             |                   |                               |                                |

REPORT NUMBER: SP1-2407-184-16

### Scotopic Flux vs. Wavelength



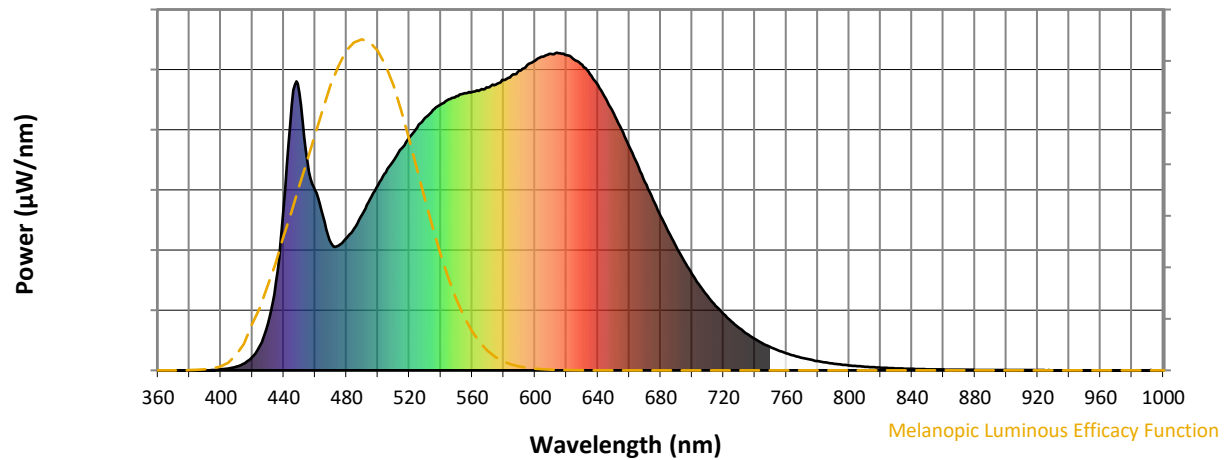
Scotopic Lumens: NR

S/P: 1.72

| 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       | 492                         | NR               | 620       | 993                         | NR               | 750       | 73                          | NR               | 880       | 1                           | NR               |
| 365       | 0                           | NR               | 495       | 539                         | NR               | 625       | 978                         | NR               | 755       | 62                          | NR               | 885       | 1                           | NR               |
| 370       | 0                           | NR               | 500       | 583                         | NR               | 630       | 962                         | NR               | 760       | 54                          | NR               | 890       | 1                           | NR               |
| 375       | 0                           | NR               | 505       | 623                         | NR               | 635       | 933                         | NR               | 765       | 46                          | NR               | 895       | 1                           | NR               |
| 380       | 0                           | NR               | 510       | 661                         | NR               | 640       | 898                         | NR               | 770       | 39                          | NR               | 900       | 1                           | NR               |
| 385       | 0                           | NR               | 515       | 698                         | NR               | 645       | 855                         | NR               | 775       | 34                          | NR               | 905       | 1                           | NR               |
| 390       | 0                           | NR               | 520       | 733                         | NR               | 650       | 810                         | NR               | 780       | 29                          | NR               | 910       | 1                           | NR               |
| 395       | 1                           | NR               | 525       | 764                         | NR               | 655       | 759                         | NR               | 785       | 25                          | NR               | 915       | 1                           | NR               |
| 400       | 3                           | NR               | 530       | 794                         | NR               | 660       | 704                         | NR               | 790       | 21                          | NR               | 920       | 1                           | NR               |
| 405       | 6                           | NR               | 535       | 820                         | NR               | 665       | 651                         | NR               | 795       | 18                          | NR               | 925       | 1                           | NR               |
| 410       | 12                          | NR               | 540       | 837                         | NR               | 670       | 592                         | NR               | 800       | 16                          | NR               | 930       | 1                           | NR               |
| 415       | 22                          | NR               | 545       | 853                         | NR               | 675       | 538                         | NR               | 805       | 13                          | NR               | 935       | 0                           | NR               |
| 420       | 42                          | NR               | 550       | 864                         | NR               | 680       | 486                         | NR               | 810       | 12                          | NR               | 940       | 0                           | NR               |
| 425       | 79                          | NR               | 555       | 872                         | NR               | 685       | 435                         | NR               | 815       | 10                          | NR               | 945       | 0                           | NR               |
| 430       | 147                         | NR               | 560       | 876                         | NR               | 690       | 389                         | NR               | 820       | 9                           | NR               | 950       | 0                           | NR               |
| 435       | 278                         | NR               | 565       | 883                         | NR               | 695       | 344                         | NR               | 825       | 7                           | NR               | 955       | 0                           | NR               |
| 440       | 515                         | NR               | 570       | 891                         | NR               | 700       | 303                         | NR               | 830       | 6                           | NR               | 960       | 0                           | NR               |
| 445       | 832                         | NR               | 575       | 900                         | NR               | 705       | 266                         | NR               | 835       | 5                           | NR               | 965       | 0                           | NR               |
| 450       | 874                         | NR               | 580       | 914                         | NR               | 710       | 233                         | NR               | 840       | 5                           | NR               | 970       | 0                           | NR               |
| 455       | 659                         | NR               | 585       | 927                         | NR               | 715       | 203                         | NR               | 845       | 4                           | NR               | 975       | 0                           | NR               |
| 460       | 567                         | NR               | 590       | 944                         | NR               | 720       | 178                         | NR               | 850       | 4                           | NR               | 980       | 0                           | NR               |
| 465       | 485                         | NR               | 595       | 961                         | NR               | 725       | 154                         | NR               | 855       | 3                           | NR               | 985       | 0                           | NR               |
| 470       | 401                         | NR               | 600       | 975                         | NR               | 730       | 133                         | NR               | 860       | 3                           | NR               | 990       | 0                           | NR               |
| 475       | 393                         | NR               | 605       | 988                         | NR               | 735       | 115                         | NR               | 865       | 2                           | NR               | 995       | 1                           | NR               |
| 480       | 417                         | NR               | 610       | 996                         | NR               | 740       | 98                          | NR               | 870       | 2                           | NR               | 1000      | 0                           | NR               |
| 485       | 448                         | NR               | 615       | 998                         | NR               | 745       | 85                          | NR               | 875       | 2                           | NR               |           |                             |                  |

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### Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.52

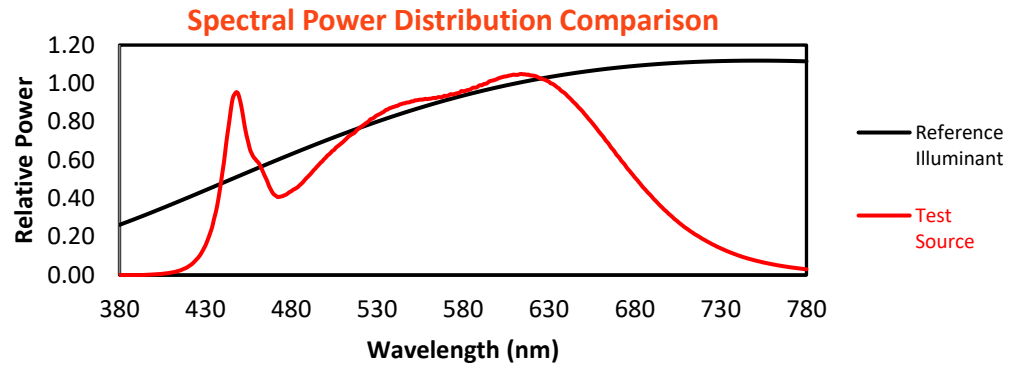
| $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | 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               | 492                                    | NR                             | 620               | 993                                    | NR                             | 750               | 73                                     | NR                             | 880               | 1                                      | NR                             |
| 365               | 0                                      | NR                             | 495               | 539                                    | NR                             | 625               | 978                                    | NR                             | 755               | 62                                     | NR                             | 885               | 1                                      | NR                             |
| 370               | 0                                      | NR                             | 500               | 583                                    | NR                             | 630               | 962                                    | NR                             | 760               | 54                                     | NR                             | 890               | 1                                      | NR                             |
| 375               | 0                                      | NR                             | 505               | 623                                    | NR                             | 635               | 933                                    | NR                             | 765               | 46                                     | NR                             | 895               | 1                                      | NR                             |
| 380               | 0                                      | NR                             | 510               | 661                                    | NR                             | 640               | 898                                    | NR                             | 770               | 39                                     | NR                             | 900               | 1                                      | NR                             |
| 385               | 0                                      | NR                             | 515               | 698                                    | NR                             | 645               | 855                                    | NR                             | 775               | 34                                     | NR                             | 905               | 1                                      | NR                             |
| 390               | 0                                      | NR                             | 520               | 733                                    | NR                             | 650               | 810                                    | NR                             | 780               | 29                                     | NR                             | 910               | 1                                      | NR                             |
| 395               | 1                                      | NR                             | 525               | 764                                    | NR                             | 655               | 759                                    | NR                             | 785               | 25                                     | NR                             | 915               | 1                                      | NR                             |
| 400               | 3                                      | NR                             | 530               | 794                                    | NR                             | 660               | 704                                    | NR                             | 790               | 21                                     | NR                             | 920               | 1                                      | NR                             |
| 405               | 6                                      | NR                             | 535               | 820                                    | NR                             | 665               | 651                                    | NR                             | 795               | 18                                     | NR                             | 925               | 1                                      | NR                             |
| 410               | 12                                     | NR                             | 540               | 837                                    | NR                             | 670               | 592                                    | NR                             | 800               | 16                                     | NR                             | 930               | 1                                      | NR                             |
| 415               | 22                                     | NR                             | 545               | 853                                    | NR                             | 675               | 538                                    | NR                             | 805               | 13                                     | NR                             | 935               | 0                                      | NR                             |
| 420               | 42                                     | NR                             | 550               | 864                                    | NR                             | 680               | 486                                    | NR                             | 810               | 12                                     | NR                             | 940               | 0                                      | NR                             |
| 425               | 79                                     | NR                             | 555               | 872                                    | NR                             | 685               | 435                                    | NR                             | 815               | 10                                     | NR                             | 945               | 0                                      | NR                             |
| 430               | 147                                    | NR                             | 560               | 876                                    | NR                             | 690               | 389                                    | NR                             | 820               | 9                                      | NR                             | 950               | 0                                      | NR                             |
| 435               | 278                                    | NR                             | 565               | 883                                    | NR                             | 695               | 344                                    | NR                             | 825               | 7                                      | NR                             | 955               | 0                                      | NR                             |
| 440               | 515                                    | NR                             | 570               | 891                                    | NR                             | 700               | 303                                    | NR                             | 830               | 6                                      | NR                             | 960               | 0                                      | NR                             |
| 445               | 832                                    | NR                             | 575               | 900                                    | NR                             | 705               | 266                                    | NR                             | 835               | 5                                      | NR                             | 965               | 0                                      | NR                             |
| 450               | 874                                    | NR                             | 580               | 914                                    | NR                             | 710               | 233                                    | NR                             | 840               | 5                                      | NR                             | 970               | 0                                      | NR                             |
| 455               | 659                                    | NR                             | 585               | 927                                    | NR                             | 715               | 203                                    | NR                             | 845               | 4                                      | NR                             | 975               | 0                                      | NR                             |
| 460               | 567                                    | NR                             | 590               | 944                                    | NR                             | 720               | 178                                    | NR                             | 850               | 4                                      | NR                             | 980               | 0                                      | NR                             |
| 465               | 485                                    | NR                             | 595               | 961                                    | NR                             | 725               | 154                                    | NR                             | 855               | 3                                      | NR                             | 985               | 0                                      | NR                             |
| 470               | 401                                    | NR                             | 600               | 975                                    | NR                             | 730               | 133                                    | NR                             | 860               | 3                                      | NR                             | 990               | 0                                      | NR                             |
| 475               | 393                                    | NR                             | 605               | 988                                    | NR                             | 735               | 115                                    | NR                             | 865               | 2                                      | NR                             | 995               | 1                                      | NR                             |
| 480               | 417                                    | NR                             | 610               | 996                                    | NR                             | 740               | 98                                     | NR                             | 870               | 2                                      | NR                             | 1000              | 0                                      | NR                             |
| 485               | 448                                    | NR                             | 615               | 998                                    | NR                             | 745               | 85                                     | NR                             | 875               | 2                                      | NR                             |                   |                                        |                                |

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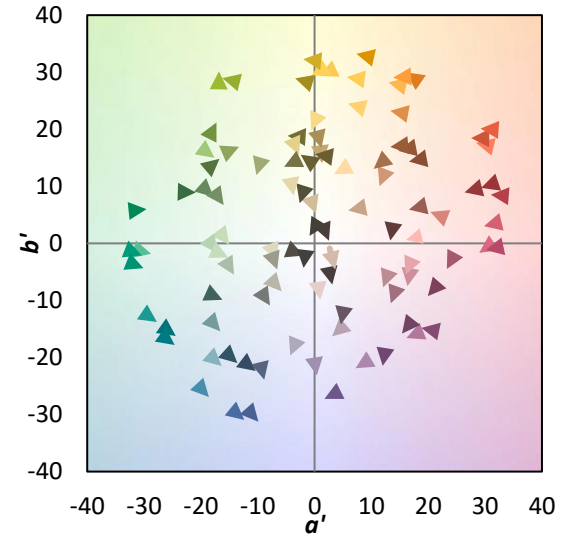
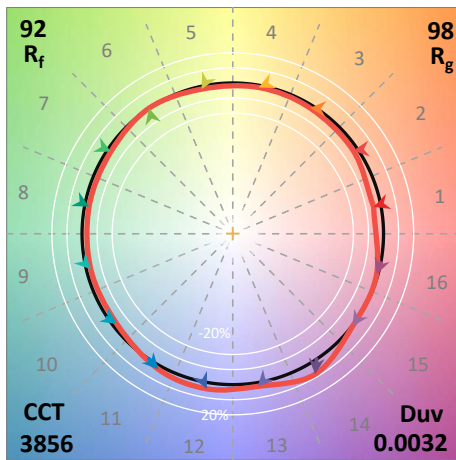
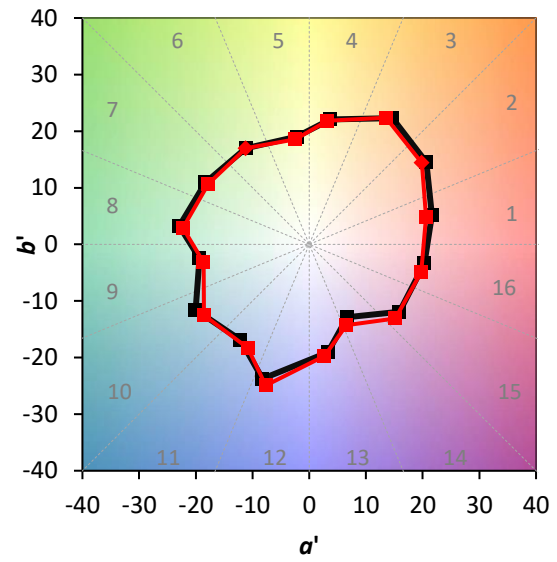
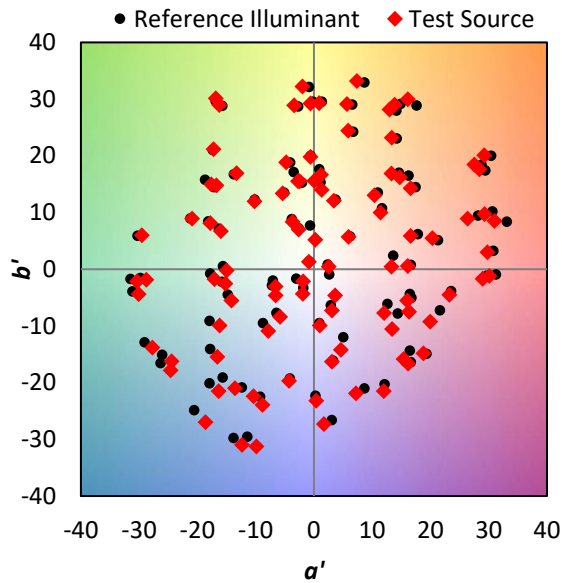
TM-30-18

### Summary

$R_f = 91.8$   
 $R_g = 98.4$   
 $CIE R_a = 92.1$   
 $R_9 = 60.7$

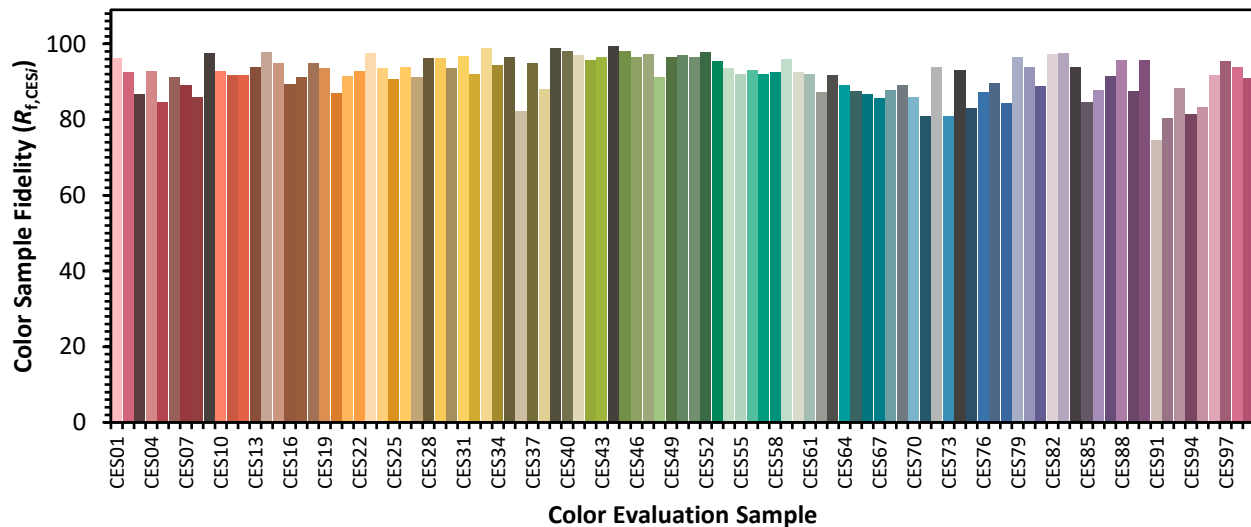


### Color Vector Graphics

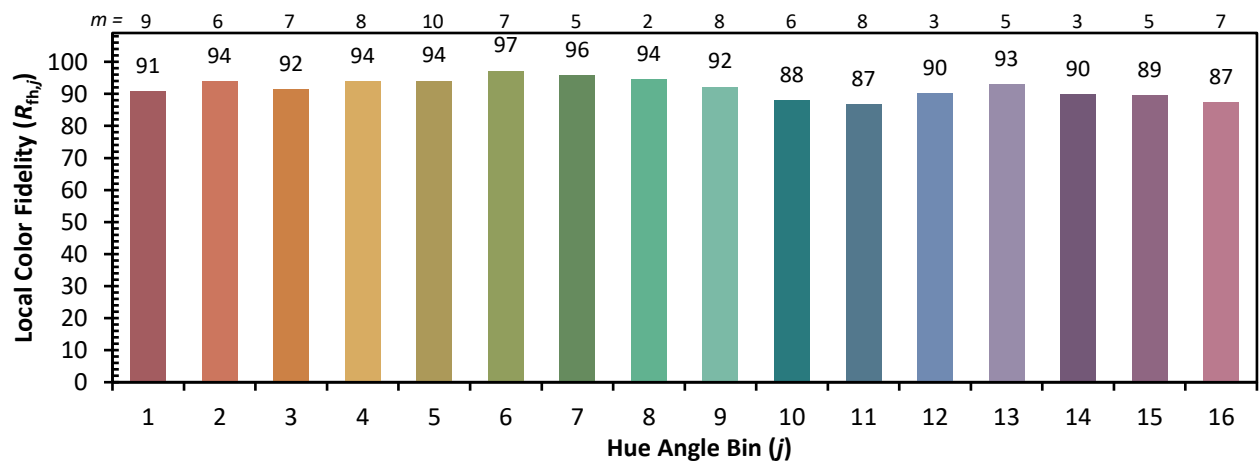
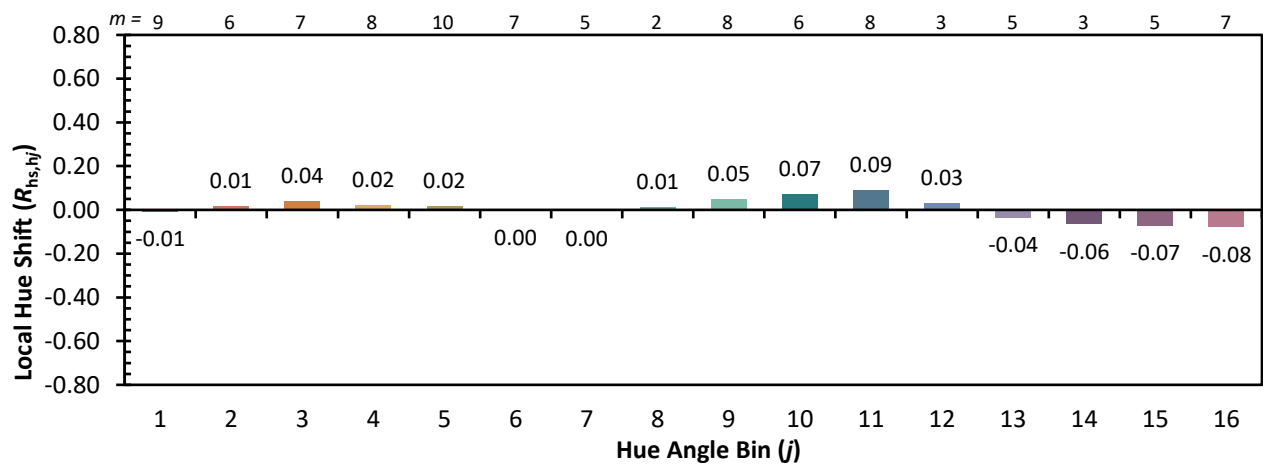
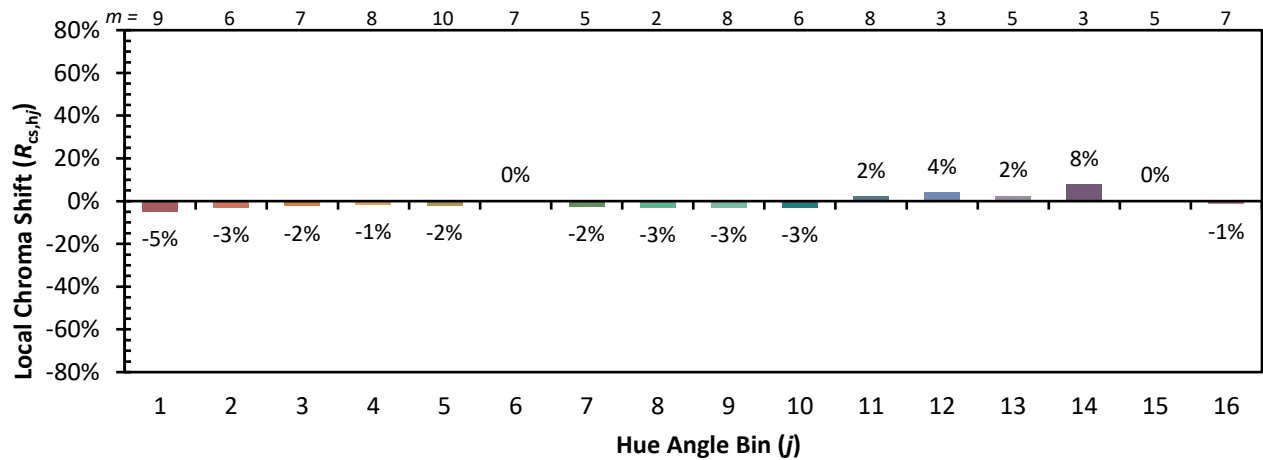


Individual Sample Fidelity Index ( $R_{f,i}$ )

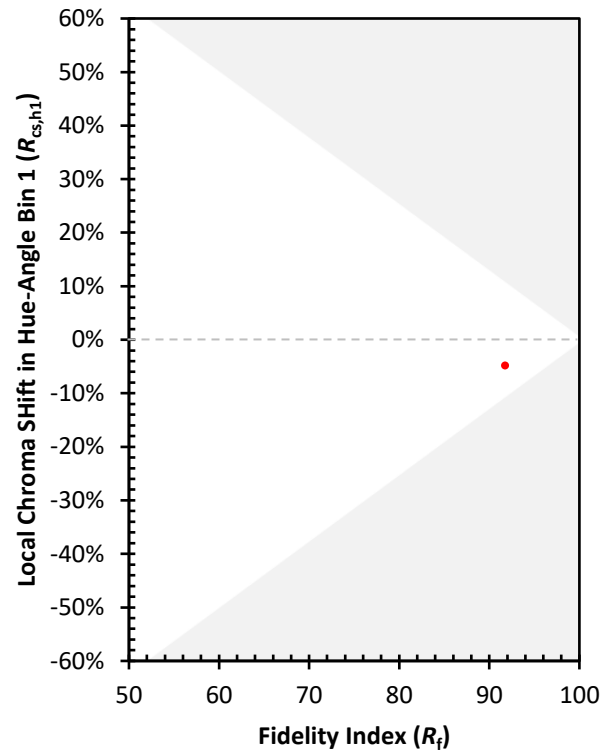
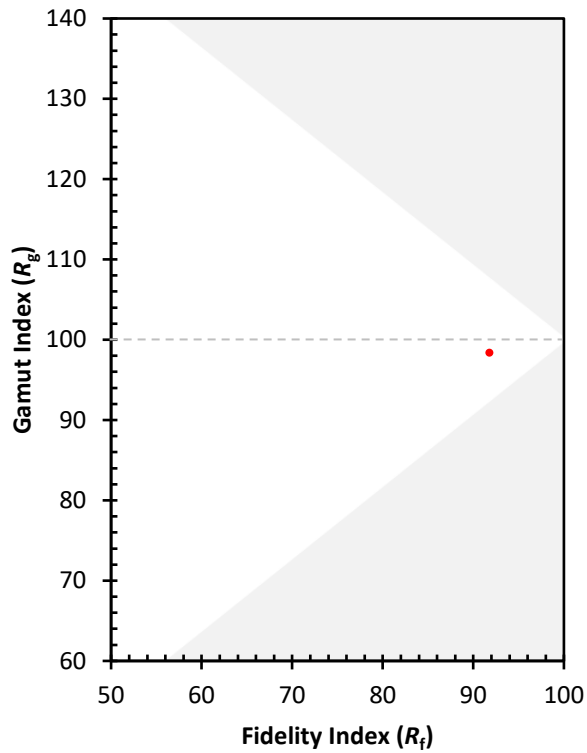
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 94 | CES51 = 96 | CES76 = 87 |
| CES02 = 62 | CES27 = 91 | CES52 = 98 | CES77 = 90 |
| CES03 = 31 | CES28 = 96 | CES53 = 95 | CES78 = 84 |
| CES04 = 69 | CES29 = 96 | CES54 = 94 | CES79 = 96 |
| CES05 = 49 | CES30 = 93 | CES55 = 92 | CES80 = 94 |
| CES06 = 50 | CES31 = 97 | CES56 = 93 | CES81 = 89 |
| CES07 = 42 | CES32 = 92 | CES57 = 92 | CES82 = 97 |
| CES08 = 41 | CES33 = 99 | CES58 = 92 | CES83 = 98 |
| CES09 = 29 | CES34 = 94 | CES59 = 96 | CES84 = 94 |
| CES10 = 74 | CES35 = 96 | CES60 = 93 | CES85 = 85 |
| CES11 = 57 | CES36 = 82 | CES61 = 92 | CES86 = 88 |
| CES12 = 63 | CES37 = 95 | CES62 = 87 | CES87 = 92 |
| CES13 = 43 | CES38 = 88 | CES63 = 92 | CES88 = 96 |
| CES14 = 74 | CES39 = 99 | CES64 = 89 | CES89 = 87 |
| CES15 = 71 | CES40 = 98 | CES65 = 88 | CES90 = 96 |
| CES16 = 47 | CES41 = 97 | CES66 = 87 | CES91 = 74 |
| CES17 = 49 | CES42 = 96 | CES67 = 86 | CES92 = 80 |
| CES18 = 56 | CES43 = 96 | CES68 = 88 | CES93 = 88 |
| CES19 = 71 | CES44 = 99 | CES69 = 89 | CES94 = 82 |
| CES20 = 66 | CES45 = 98 | CES70 = 86 | CES95 = 83 |
| CES21 = 85 | CES46 = 97 | CES71 = 81 | CES96 = 92 |
| CES22 = 78 | CES47 = 97 | CES72 = 94 | CES97 = 95 |
| CES23 = 91 | CES48 = 91 | CES73 = 81 | CES98 = 94 |
| CES24 = 90 | CES49 = 96 | CES74 = 93 | CES99 = 91 |
| CES25 = 71 | CES50 = 97 | CES75 = 83 |            |



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)