

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: P1065194

Luminaire Tested: **GLAN-SA7B-727-U-LBC**

Issue Date: 08/07/2025



**Test Information**

Test Method: LM-79-08  
Report Number: P1065194  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 08/07/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7B-727-U-LBC  
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 7xLight Square PACKAGE  
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (98) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25877.7 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G4

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

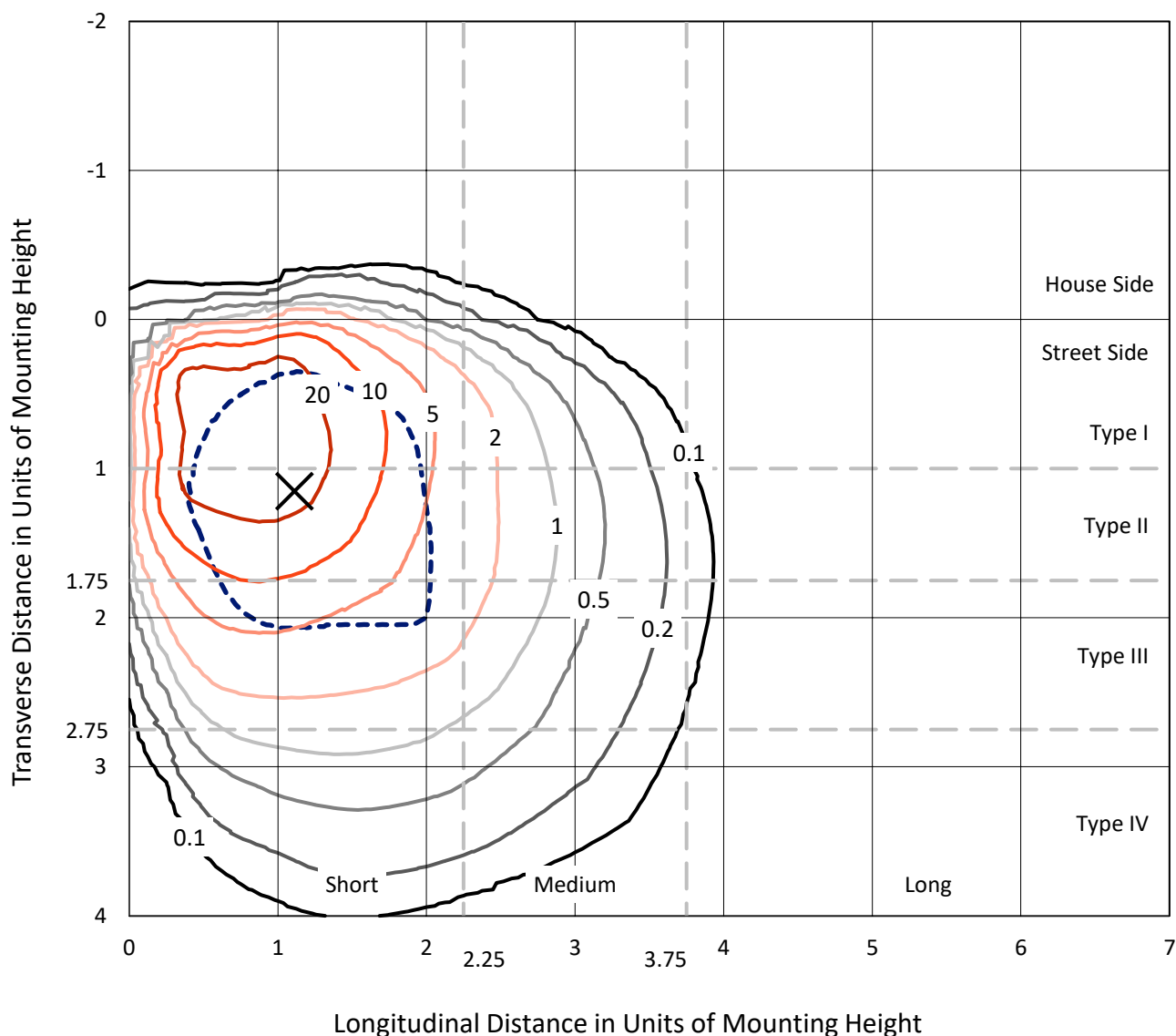
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

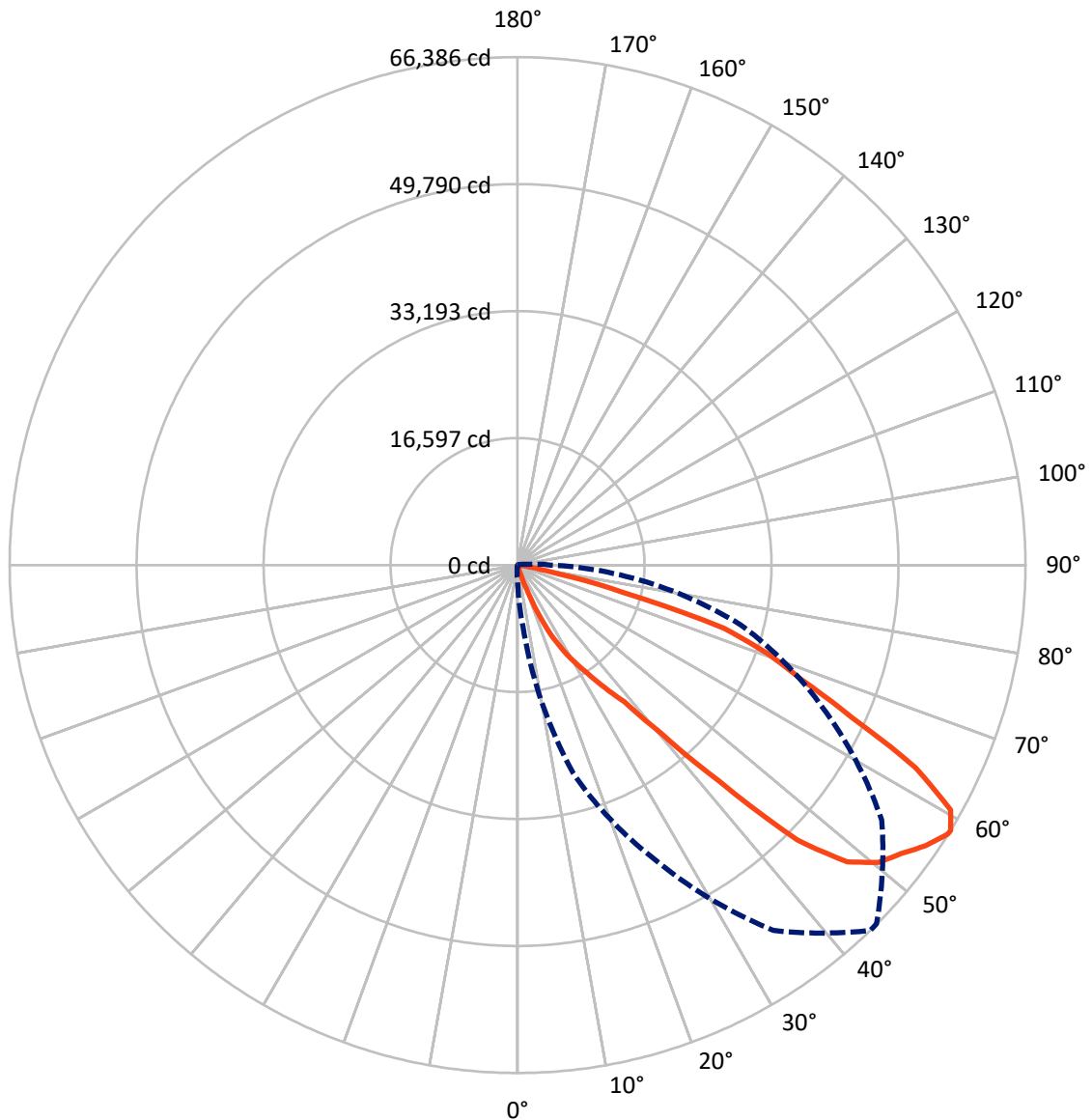


Based on 20 foot mounting height. Maximum calculated value = 45 fc

Type III - Short - N/A

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## Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 176.7    | 0.0    | 176.7   |
|                    | % Fixture | 0.7      | 0.0    | 0.7     |
| <b>Street Side</b> | Lumens    | 25701.0  | 0.0    | 25701.0 |
|                    | % Fixture | 99.3     | 0.0    | 99.3    |
| <b>Total</b>       | Lumens    | 25877.7  | 0.0    | 25877.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 10.1    | 0.0       |
| 10°-20°   | 56.8    | 0.2       |
| 20°-30°   | 613.0   | 2.4       |
| 30°-40°   | 1813.0  | 7.0       |
| 40°-50°   | 5403.7  | 20.9      |
| 50°-60°   | 8574.3  | 33.1      |
| 60°-70°   | 7152.0  | 27.6      |
| 70°-80°   | 2205.8  | 8.5       |
| 80°-90°   | 49.0    | 0.2       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 25877.7 | 100.0     |
| 0°-180°   | 25877.7 | 100.0     |



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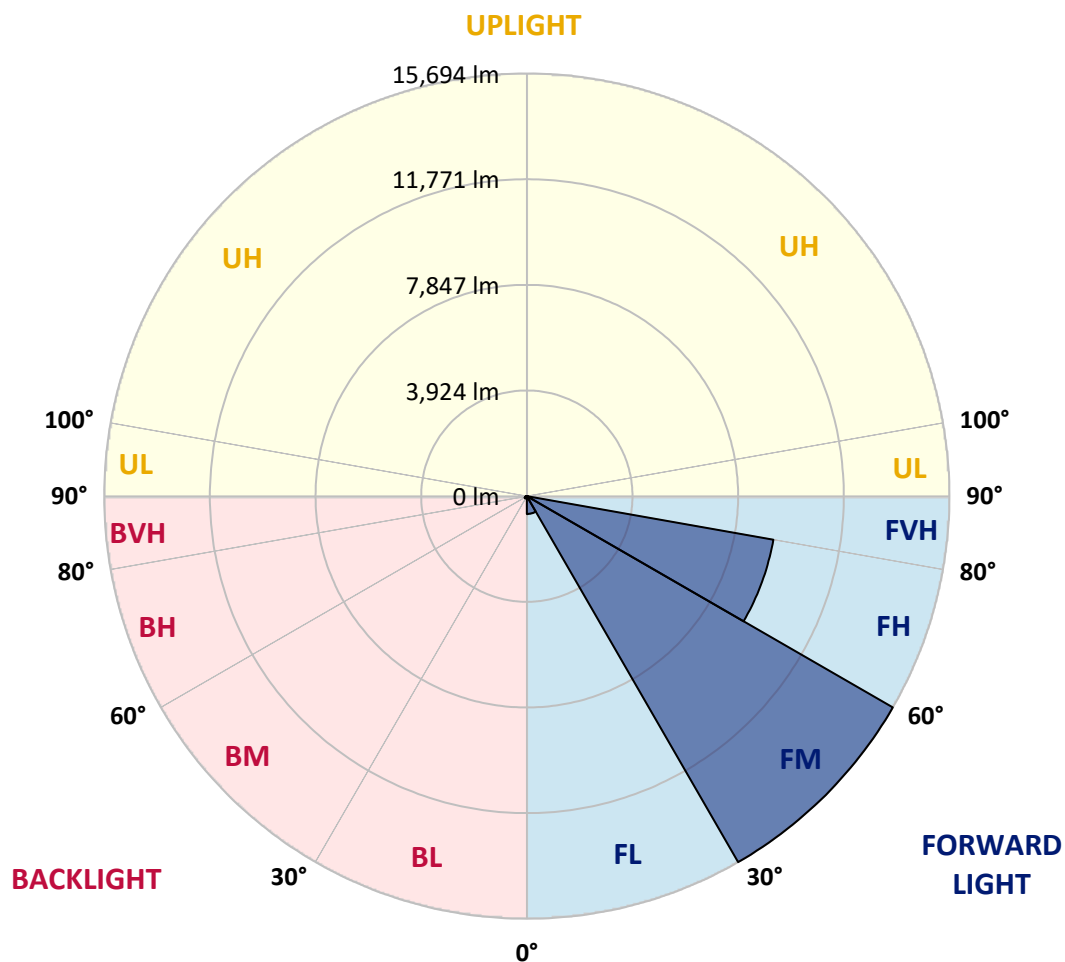
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 662.6   | 2.6       |                         |      |          |
| FM   | (30°-60°)   | 15694.3 | 60.6      |                         |      |          |
| FH   | (60°-80°)   | 9297.5  | 35.9      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 46.6    | 0.2       |                         |      | G1/100   |
| BL   | (0°-30°)    | 17.3    | 0.1       | B0/110                  |      |          |
| BM   | (30°-60°)   | 96.7    | 0.4       | B0/220                  |      |          |
| BH   | (60°-80°)   | 60.3    | 0.2       | B0/110                  |      | G0/110   |
| BVH  | (80°-90°)   | 2.4     | 0.0       |                         |      | G0/10    |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B0-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°     | 25°     | 35°     | 44°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 113.4  | 113.4  | 113.4   | 113.4   | 113.4   | 113.4   | 113.4   | 113.4   | 113.4   | 113.4   | 113.4   |
| 2.5°  | 146.6  | 146.6  | 140.7   | 132.9   | 125.1   | 117.3   | 115.3   | 111.4   | 109.5   | 107.5   | 105.6   |
| 5°    | 152.5  | 152.5  | 150.5   | 144.7   | 136.8   | 131.0   | 131.0   | 125.1   | 121.2   | 117.3   | 113.4   |
| 7.5°  | 156.4  | 158.3  | 162.3   | 160.3   | 156.4   | 150.5   | 150.5   | 146.6   | 140.7   | 131.0   | 125.1   |
| 10°   | 162.3  | 168.1  | 175.9   | 179.8   | 181.8   | 181.8   | 179.8   | 177.9   | 168.1   | 154.4   | 138.8   |
| 12.5° | 168.1  | 179.8  | 199.4   | 218.9   | 230.7   | 246.3   | 244.4   | 240.4   | 215.0   | 185.7   | 158.3   |
| 15°   | 179.8  | 197.4  | 238.5   | 295.2   | 383.1   | 437.9   | 459.4   | 439.8   | 355.8   | 250.2   | 183.8   |
| 17.5° | 193.5  | 222.9  | 346.0   | 617.7   | 1012.6  | 1200.3  | 1313.7  | 1221.8  | 809.3   | 475.0   | 230.7   |
| 20°   | 207.2  | 271.7  | 643.1   | 1601.0  | 2627.3  | 3241.1  | 3411.2  | 3145.3  | 2019.3  | 905.1   | 342.1   |
| 22.5° | 230.7  | 381.2  | 1303.9  | 3309.5  | 5661.2  | 6581.9  | 6755.9  | 5905.6  | 3813.9  | 1786.7  | 514.1   |
| 25°   | 279.5  | 553.2  | 2248.1  | 5393.4  | 8448.8  | 10002.9 | 9930.6  | 8816.3  | 6187.1  | 2854.1  | 781.9   |
| 27.5° | 349.9  | 805.4  | 3399.5  | 7663.0  | 11119.1 | 12489.5 | 12653.7 | 11275.5 | 8247.5  | 4197.0  | 1110.3  |
| 30°   | 451.6  | 1116.2 | 4634.9  | 9481.0  | 13259.7 | 14741.4 | 14768.8 | 13343.7 | 10090.9 | 5375.8  | 1513.0  |
| 32.5° | 549.3  | 1409.4 | 5716.0  | 11238.4 | 15369.0 | 16993.4 | 17114.6 | 15361.1 | 11467.1 | 6603.4  | 1863.0  |
| 35°   | 623.6  | 1601.0 | 6810.7  | 12782.7 | 17495.8 | 19734.1 | 19726.3 | 17644.4 | 13097.4 | 7700.1  | 2347.8  |
| 37.5° | 629.5  | 1792.6 | 7801.8  | 14362.2 | 20189.6 | 22695.7 | 22944.0 | 20649.0 | 15067.9 | 9056.8  | 2942.0  |
| 40°   | 615.8  | 2007.6 | 9056.8  | 16825.3 | 25043.5 | 28888.6 | 29107.6 | 26214.4 | 19020.6 | 11379.1 | 3870.6  |
| 42.5° | 631.4  | 2381.0 | 11093.7 | 21374.2 | 33103.3 | 38625.7 | 39047.9 | 36006.2 | 26286.7 | 16117.7 | 5526.3  |
| 45°   | 713.5  | 3082.8 | 15361.1 | 28984.4 | 44591.9 | 51324.3 | 51183.6 | 46802.8 | 34741.4 | 23331.0 | 8802.6  |
| 47.5° | 985.2  | 4801.1 | 21687.0 | 36391.3 | 51934.2 | 57929.7 | 58050.9 | 52696.6 | 39675.4 | 28876.9 | 13214.7 |
| 50°   | 1515.0 | 7346.3 | 27002.2 | 40306.8 | 55091.3 | 61106.3 | 60993.0 | 54805.9 | 41550.1 | 31607.8 | 15918.3 |
| 52.5° | 1970.5 | 9187.7 | 29668.6 | 41681.1 | 55496.0 | 62676.1 | 62668.3 | 55361.1 | 41841.4 | 31842.4 | 16256.4 |
| 55°   | 2083.9 | 9326.5 | 29690.1 | 41755.4 | 56403.0 | 64730.6 | 64988.7 | 56727.5 | 42218.7 | 30818.1 | 14983.8 |
| 57.5° | 2038.9 | 8257.2 | 28450.7 | 42185.4 | 58017.7 | 66319.9 | 66333.6 | 58050.9 | 43176.5 | 30190.5 | 12876.5 |
| 58°   | 1999.8 | 8089.1 | 28200.5 | 42429.8 | 58295.3 | 66386.4 | 66353.1 | 58111.5 | 43956.5 | 30167.1 | 12546.2 |
| 60°   | 1780.9 | 7023.7 | 27225.1 | 43053.4 | 57882.8 | 65021.9 | 64711.1 | 56788.1 | 43841.2 | 29926.6 | 10882.6 |
| 62.5° | 1399.7 | 5479.4 | 26265.2 | 42332.1 | 53461.0 | 58416.5 | 58545.5 | 50276.5 | 39966.7 | 28525.0 | 8921.9  |
| 65°   | 1114.3 | 4083.7 | 24263.5 | 37132.2 | 44023.0 | 47971.8 | 48452.7 | 40883.5 | 33359.3 | 24154.0 | 6578.0  |
| 67.5° | 887.5  | 2951.8 | 20353.8 | 29563.0 | 34835.2 | 40037.1 | 40387.0 | 34325.0 | 25844.9 | 18506.5 | 4674.0  |
| 70°   | 721.3  | 1995.9 | 14049.4 | 21620.5 | 28732.2 | 34581.1 | 34602.6 | 28515.2 | 19290.4 | 12125.9 | 2932.3  |
| 72.5° | 639.2  | 1382.1 | 8155.6  | 15767.7 | 23297.8 | 28179.0 | 27610.2 | 23139.4 | 14825.5 | 7182.1  | 1747.6  |
| 75°   | 553.2  | 916.8  | 3999.6  | 9639.3  | 14125.7 | 14221.5 | 14438.4 | 10734.0 | 7410.8  | 3415.1  | 1047.8  |
| 77.5° | 455.5  | 651.0  | 1575.6  | 2633.2  | 4236.1  | 5422.7  | 5624.1  | 4261.6  | 2465.1  | 840.6   | 559.1   |
| 80°   | 312.8  | 308.9  | 424.2   | 807.3   | 1212.0  | 1518.9  | 1417.3  | 1096.7  | 645.1   | 322.5   | 199.4   |
| 82.5° | 134.9  | 146.6  | 191.6   | 230.7   | 187.7   | 181.8   | 174.0   | 111.4   | 86.0    | 66.5    | 41.1    |
| 85°   | 43.0   | 39.1   | 41.1    | 41.1    | 33.2    | 25.4    | 25.4    | 11.7    | 0.0     | 0.0     | 0.0     |
| 87.5° | 21.5   | 17.6   | 17.6    | 15.6    | 9.8     | 3.9     | 2.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 90°   | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 113.4  | 113.4  | 113.4 | 113.4 | 113.4 | 113.4 | 113.4 | 113.4 | 113.4 | 113.4 | 113.4 |
| 2.5°  | 103.6  | 103.6  | 99.7  | 95.8  | 93.8  | 89.9  | 88.0  | 86.0  | 84.1  | 82.1  | 80.1  |
| 5°    | 109.5  | 107.5  | 101.7 | 95.8  | 89.9  | 84.1  | 80.1  | 76.2  | 72.3  | 70.4  | 68.4  |
| 7.5°  | 119.2  | 115.3  | 103.6 | 93.8  | 86.0  | 78.2  | 74.3  | 68.4  | 64.5  | 58.6  | 56.7  |
| 10°   | 131.0  | 123.2  | 107.5 | 95.8  | 84.1  | 74.3  | 68.4  | 62.6  | 56.7  | 48.9  | 46.9  |
| 12.5° | 146.6  | 132.9  | 113.4 | 93.8  | 80.1  | 68.4  | 62.6  | 54.7  | 48.9  | 43.0  | 39.1  |
| 15°   | 160.3  | 142.7  | 115.3 | 93.8  | 76.2  | 62.6  | 54.7  | 46.9  | 41.1  | 33.2  | 29.3  |
| 17.5° | 179.8  | 150.5  | 113.4 | 88.0  | 70.4  | 54.7  | 46.9  | 41.1  | 31.3  | 19.5  | 15.6  |
| 20°   | 213.1  | 156.4  | 109.5 | 82.1  | 60.6  | 45.0  | 35.2  | 27.4  | 13.7  | 3.9   | 0.0   |
| 22.5° | 265.9  | 172.0  | 105.6 | 74.3  | 52.8  | 35.2  | 23.5  | 9.8   | 0.0   | 0.0   | 0.0   |
| 25°   | 367.5  | 199.4  | 105.6 | 70.4  | 46.9  | 25.4  | 7.8   | 0.0   | 0.0   | 0.0   | 0.0   |
| 27.5° | 488.7  | 236.5  | 105.6 | 60.6  | 37.1  | 13.7  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 30°   | 611.9  | 277.6  | 105.6 | 52.8  | 29.3  | 2.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 32.5° | 729.2  | 312.8  | 107.5 | 45.0  | 19.5  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 35°   | 848.4  | 318.6  | 105.6 | 39.1  | 11.7  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 37.5° | 1000.9 | 306.9  | 99.7  | 35.2  | 5.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 40°   | 1231.5 | 312.8  | 93.8  | 33.2  | 2.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 42.5° | 1657.7 | 338.2  | 86.0  | 33.2  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 45°   | 2865.8 | 453.5  | 78.2  | 35.2  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 47.5° | 4740.5 | 815.2  | 76.2  | 35.2  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 50°   | 6050.2 | 1026.3 | 80.1  | 37.1  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 52.5° | 6040.5 | 1143.6 | 84.1  | 39.1  | 7.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 55°   | 5369.9 | 1165.1 | 89.9  | 43.0  | 25.4  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 57.5° | 4488.3 | 1063.4 | 103.6 | 52.8  | 46.9  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 58°   | 4331.9 | 1016.5 | 107.5 | 54.7  | 50.8  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 60°   | 3550.0 | 828.9  | 136.8 | 68.4  | 68.4  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 62.5° | 2451.4 | 723.3  | 156.4 | 88.0  | 70.4  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 65°   | 1733.9 | 652.9  | 170.1 | 93.8  | 56.7  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 67.5° | 1296.1 | 602.1  | 187.7 | 95.8  | 29.3  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 70°   | 993.1  | 564.9  | 230.7 | 101.7 | 7.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 72.5° | 809.3  | 521.9  | 279.5 | 105.6 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°   | 670.5  | 471.1  | 269.8 | 115.3 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 445.7  | 365.6  | 246.3 | 115.3 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 156.4  | 144.7  | 191.6 | 101.7 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 23.5   | 19.5   | 27.4  | 35.2  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 90°   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |



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**CANDELA DISTRIBUTION (continued):**

|       | 185°  | 195°  | 205°  | 215°  | 225°  | 235°  | 245°  | 255°  | 265°  | 270°  | 275°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 113.4 | 113.4 | 113.4 | 113.4 | 113.4 | 113.4 | 113.4 | 113.4 | 113.4 | 113.4 | 113.4 |
| 2.5°  | 80.1  | 80.1  | 78.2  | 80.1  | 80.1  | 84.1  | 93.8  | 107.5 | 123.2 | 129.0 | 134.9 |
| 5°    | 66.5  | 64.5  | 62.6  | 62.6  | 62.6  | 68.4  | 76.2  | 91.9  | 109.5 | 117.3 | 121.2 |
| 7.5°  | 54.7  | 52.8  | 50.8  | 48.9  | 48.9  | 52.8  | 62.6  | 80.1  | 97.7  | 105.6 | 111.4 |
| 10°   | 45.0  | 41.1  | 39.1  | 37.1  | 37.1  | 41.1  | 50.8  | 68.4  | 88.0  | 95.8  | 103.6 |
| 12.5° | 37.1  | 31.3  | 27.4  | 25.4  | 23.5  | 29.3  | 39.1  | 54.7  | 76.2  | 86.0  | 93.8  |
| 15°   | 25.4  | 19.5  | 13.7  | 11.7  | 9.8   | 15.6  | 25.4  | 43.0  | 64.5  | 76.2  | 84.1  |
| 17.5° | 13.7  | 5.9   | 2.0   | 0.0   | 0.0   | 3.9   | 11.7  | 31.3  | 52.8  | 62.6  | 72.3  |
| 20°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 15.6  | 39.1  | 48.9  | 58.6  |
| 22.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 2.0   | 23.5  | 33.2  | 43.0  |
| 25°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 9.8   | 17.6  | 25.4  |
| 27.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 3.9   | 11.7  |
| 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   | 2.0   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 5.9   | 11.7  |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 7.8   | 15.6  | 21.5  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

REPORT NUMBER: P1065194

CATALOG NUMBER: GLAN-SA7B-727-U-LBC

**CANDELA DISTRIBUTION (continued):**

|       | 285°  | 295°  | 305°  | 315°  | 316°  | 325°  | 335°  | 345°  | 355°  | 360°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0°    | 113.4 | 113.4 | 113.4 | 113.4 | 113.4 | 113.4 | 113.4 | 113.4 | 113.4 | 113.4  |
| 2.5°  | 138.8 | 136.8 | 132.9 | 129.0 | 129.0 | 129.0 | 134.9 | 140.7 | 146.6 | 146.6  |
| 5°    | 129.0 | 129.0 | 127.1 | 123.2 | 123.2 | 125.1 | 132.9 | 142.7 | 150.5 | 152.5  |
| 7.5°  | 119.2 | 123.2 | 119.2 | 117.3 | 119.2 | 121.2 | 129.0 | 140.7 | 152.5 | 156.4  |
| 10°   | 113.4 | 115.3 | 115.3 | 113.4 | 113.4 | 117.3 | 125.1 | 140.7 | 156.4 | 162.3  |
| 12.5° | 105.6 | 109.5 | 107.5 | 107.5 | 107.5 | 111.4 | 121.2 | 138.8 | 160.3 | 168.1  |
| 15°   | 97.7  | 103.6 | 103.6 | 101.7 | 101.7 | 103.6 | 117.3 | 136.8 | 166.2 | 179.8  |
| 17.5° | 89.9  | 95.8  | 97.7  | 93.8  | 93.8  | 97.7  | 111.4 | 136.8 | 170.1 | 193.5  |
| 20°   | 74.3  | 84.1  | 89.9  | 84.1  | 84.1  | 88.0  | 101.7 | 129.0 | 172.0 | 207.2  |
| 22.5° | 58.6  | 68.4  | 76.2  | 74.3  | 74.3  | 76.2  | 93.8  | 123.2 | 174.0 | 230.7  |
| 25°   | 43.0  | 52.8  | 58.6  | 62.6  | 62.6  | 68.4  | 86.0  | 119.2 | 181.8 | 279.5  |
| 27.5° | 25.4  | 37.1  | 45.0  | 48.9  | 50.8  | 58.6  | 80.1  | 115.3 | 195.5 | 349.9  |
| 30°   | 11.7  | 21.5  | 31.3  | 39.1  | 39.1  | 52.8  | 74.3  | 111.4 | 213.1 | 451.6  |
| 32.5° | 0.0   | 9.8   | 15.6  | 27.4  | 29.3  | 43.0  | 68.4  | 107.5 | 238.5 | 549.3  |
| 35°   | 0.0   | 0.0   | 7.8   | 21.5  | 21.5  | 35.2  | 62.6  | 103.6 | 277.6 | 623.6  |
| 37.5° | 0.0   | 0.0   | 0.0   | 15.6  | 17.6  | 31.3  | 60.6  | 101.7 | 285.4 | 629.5  |
| 40°   | 0.0   | 0.0   | 0.0   | 11.7  | 13.7  | 29.3  | 60.6  | 103.6 | 258.0 | 615.8  |
| 42.5° | 0.0   | 0.0   | 0.0   | 7.8   | 9.8   | 29.3  | 60.6  | 107.5 | 232.6 | 631.4  |
| 45°   | 0.0   | 0.0   | 0.0   | 5.9   | 7.8   | 31.3  | 58.6  | 105.6 | 218.9 | 713.5  |
| 47.5° | 0.0   | 0.0   | 0.0   | 7.8   | 11.7  | 31.3  | 56.7  | 103.6 | 220.9 | 985.2  |
| 50°   | 0.0   | 0.0   | 0.0   | 9.8   | 13.7  | 31.3  | 58.6  | 99.7  | 242.4 | 1515.0 |
| 52.5° | 0.0   | 0.0   | 0.0   | 7.8   | 11.7  | 35.2  | 64.5  | 97.7  | 263.9 | 1970.5 |
| 55°   | 0.0   | 0.0   | 0.0   | 2.0   | 5.9   | 45.0  | 70.4  | 97.7  | 297.1 | 2083.9 |
| 57.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 50.8  | 80.1  | 103.6 | 351.9 | 2038.9 |
| 58°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 50.8  | 82.1  | 103.6 | 355.8 | 1999.8 |
| 60°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 50.8  | 89.9  | 115.3 | 383.1 | 1780.9 |
| 62.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 43.0  | 107.5 | 144.7 | 398.8 | 1399.7 |
| 65°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 35.2  | 127.1 | 158.3 | 410.5 | 1114.3 |
| 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 33.2  | 131.0 | 160.3 | 416.4 | 887.5  |
| 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 35.2  | 129.0 | 172.0 | 435.9 | 721.3  |
| 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 39.1  | 117.3 | 189.6 | 435.9 | 639.2  |
| 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 41.1  | 109.5 | 213.1 | 396.8 | 553.2  |
| 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 39.1  | 107.5 | 248.3 | 353.8 | 455.5  |
| 80°   | 3.9   | 5.9   | 5.9   | 3.9   | 3.9   | 33.2  | 105.6 | 252.2 | 301.0 | 312.8  |
| 82.5° | 11.7  | 15.6  | 13.7  | 9.8   | 9.8   | 29.3  | 93.8  | 211.1 | 156.4 | 134.9  |
| 85°   | 21.5  | 25.4  | 25.4  | 21.5  | 21.5  | 27.4  | 58.6  | 76.2  | 52.8  | 43.0   |
| 87.5° | 29.3  | 33.2  | 33.2  | 29.3  | 29.3  | 27.4  | 25.4  | 23.5  | 21.5  | 21.5   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-3

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-727-U-5WQ

Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2407-184-3  
 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-727-U-5WQ**  
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI  
 2700K CCT 26 LEDS

### Spectral Parameters

|                           |          |           |      |      |       |
|---------------------------|----------|-----------|------|------|-------|
| CCT (K):                  | 2672     | CRI (Ra): | 71.1 |      |       |
| CIE u':                   | 0.2638   | R1:       | 68.3 | R9:  | -27.8 |
| CIE v':                   | 0.5276   | R2:       | 79.8 | R10: | 54.4  |
| Duv:                      | -0.0002  | R3:       | 91.2 | R11: | 65.8  |
| CIE x:                    | 0.4619   | R4:       | 69.4 | R12: | 45.6  |
| CIE y:                    | 0.4106   | R5:       | 66.5 | R13: | 69.8  |
| CIE z:                    | 0.1275   | R6:       | 72.6 | R14: | 94.5  |
| Peak Wavelength (nm):     | 601      | R7:       | 77.0 | R15: | 60.1  |
| Dominant Wavelength (nm): | 584      | R8:       | 44.1 |      |       |
| Purity:                   | 61.88407 |           |      |      |       |
| Rf:                       | 67.9     |           |      |      |       |
| Rg:                       | 98.6     |           |      |      |       |



### Test Conditions

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

REPORT NUMBER: SP1-2407-184-3

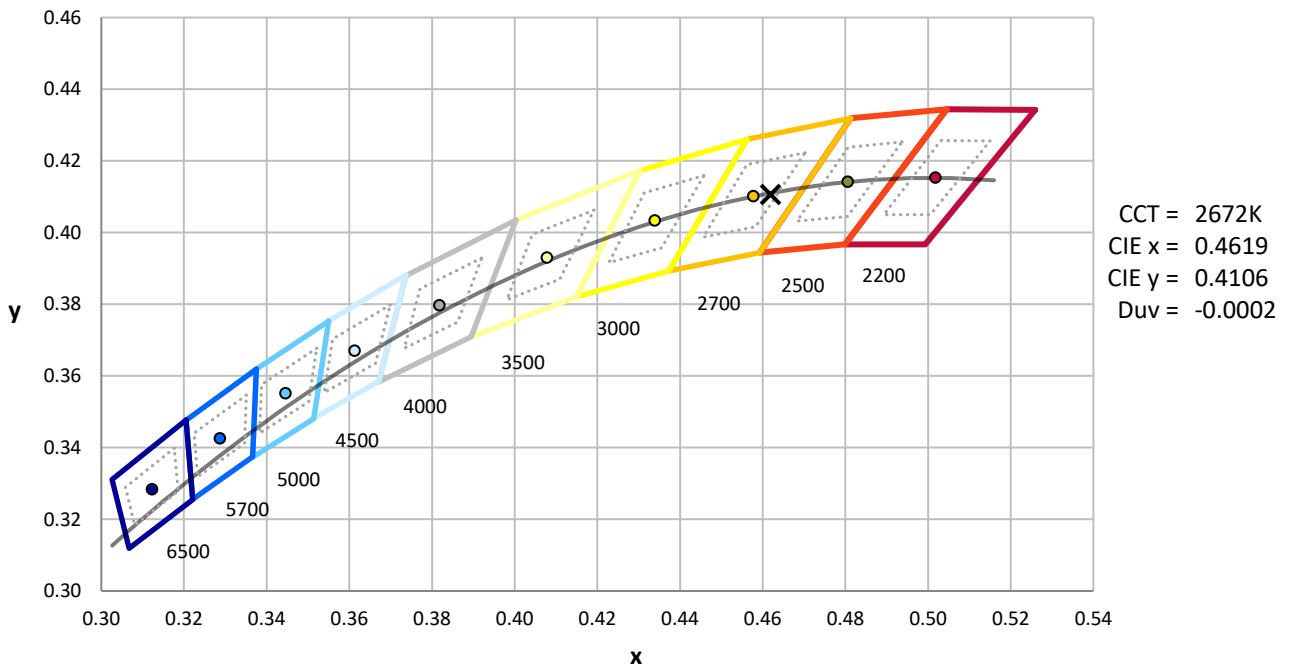
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| 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           |

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**CIE 1931 Chromaticity Diagram**

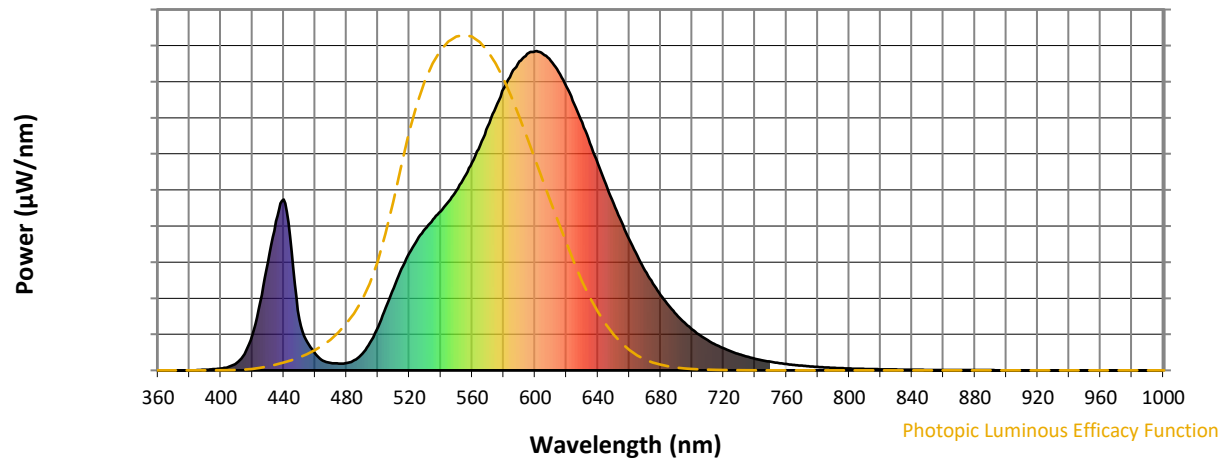


**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



REPORT NUMBER: SP1-2407-184-3

### 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               | 52                            | NR                             | 620               | 888                           | NR                             | 750               | 27                            | NR                             | 880               | 1                             | NR                             |
| 365               | 0                             | NR                             | 495               | 87                            | NR                             | 625               | 834                           | NR                             | 755               | 23                            | NR                             | 885               | 1                             | NR                             |
| 370               | 0                             | NR                             | 500               | 135                           | NR                             | 630               | 776                           | NR                             | 760               | 20                            | NR                             | 890               | 1                             | NR                             |
| 375               | 0                             | NR                             | 505               | 196                           | NR                             | 635               | 712                           | NR                             | 765               | 17                            | NR                             | 895               | 0                             | NR                             |
| 380               | 0                             | NR                             | 510               | 258                           | NR                             | 640               | 648                           | NR                             | 770               | 15                            | NR                             | 900               | 0                             | NR                             |
| 385               | 1                             | NR                             | 515               | 317                           | NR                             | 645               | 583                           | NR                             | 775               | 12                            | NR                             | 905               | 0                             | NR                             |
| 390               | 2                             | NR                             | 520               | 368                           | NR                             | 650               | 523                           | NR                             | 780               | 11                            | NR                             | 910               | 0                             | NR                             |
| 395               | 4                             | NR                             | 525               | 408                           | NR                             | 655               | 465                           | NR                             | 785               | 9                             | NR                             | 915               | 0                             | NR                             |
| 400               | 6                             | NR                             | 530               | 443                           | NR                             | 660               | 410                           | NR                             | 790               | 8                             | NR                             | 920               | 0                             | NR                             |
| 405               | 11                            | NR                             | 535               | 473                           | NR                             | 665               | 360                           | NR                             | 795               | 7                             | NR                             | 925               | 0                             | NR                             |
| 410               | 23                            | NR                             | 540               | 498                           | NR                             | 670               | 313                           | NR                             | 800               | 6                             | NR                             | 930               | 0                             | NR                             |
| 415               | 51                            | NR                             | 545               | 530                           | NR                             | 675               | 272                           | NR                             | 805               | 5                             | NR                             | 935               | 0                             | NR                             |
| 420               | 111                           | NR                             | 550               | 563                           | NR                             | 680               | 236                           | NR                             | 810               | 4                             | NR                             | 940               | 0                             | NR                             |
| 425               | 214                           | NR                             | 555               | 605                           | NR                             | 685               | 203                           | NR                             | 815               | 4                             | NR                             | 945               | 0                             | NR                             |
| 430               | 339                           | NR                             | 560               | 651                           | NR                             | 690               | 175                           | NR                             | 820               | 3                             | NR                             | 950               | 0                             | NR                             |
| 435               | 467                           | NR                             | 565               | 705                           | NR                             | 695               | 150                           | NR                             | 825               | 3                             | NR                             | 955               | 0                             | NR                             |
| 440               | 535                           | NR                             | 570               | 765                           | NR                             | 700               | 128                           | NR                             | 830               | 3                             | NR                             | 960               | 0                             | NR                             |
| 445               | 372                           | NR                             | 575               | 824                           | NR                             | 705               | 110                           | NR                             | 835               | 2                             | NR                             | 965               | 0                             | NR                             |
| 450               | 160                           | NR                             | 580               | 882                           | NR                             | 710               | 94                            | NR                             | 840               | 2                             | NR                             | 970               | 0                             | NR                             |
| 455               | 89                            | NR                             | 585               | 930                           | NR                             | 715               | 80                            | NR                             | 845               | 2                             | NR                             | 975               | 0                             | NR                             |
| 460               | 53                            | NR                             | 590               | 968                           | NR                             | 720               | 69                            | NR                             | 850               | 1                             | NR                             | 980               | 0                             | NR                             |
| 465               | 31                            | NR                             | 595               | 991                           | NR                             | 725               | 59                            | NR                             | 855               | 1                             | NR                             | 985               | 0                             | NR                             |
| 470               | 23                            | NR                             | 600               | 999                           | NR                             | 730               | 50                            | NR                             | 860               | 1                             | NR                             | 990               | 0                             | NR                             |
| 475               | 21                            | NR                             | 605               | 992                           | NR                             | 735               | 43                            | NR                             | 865               | 1                             | NR                             | 995               | 0                             | NR                             |
| 480               | 23                            | NR                             | 610               | 969                           | NR                             | 740               | 36                            | NR                             | 870               | 1                             | NR                             | 1000              | 0                             | NR                             |
| 485               | 32                            | NR                             | 615               | 935                           | NR                             | 745               | 31                            | NR                             | 875               | 1                             | NR                             |                   |                               |                                |

REPORT NUMBER: SP1-2407-184-3

### Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.02

| $\lambda$<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               | 52                                   | NR                           | 620               | 888                                  | NR                           | 750               | 27                                   | NR                           | 880               | 1                                    | NR                           |
| 365               | 0                                    | NR                           | 495               | 87                                   | NR                           | 625               | 834                                  | NR                           | 755               | 23                                   | NR                           | 885               | 1                                    | NR                           |
| 370               | 0                                    | NR                           | 500               | 135                                  | NR                           | 630               | 776                                  | NR                           | 760               | 20                                   | NR                           | 890               | 1                                    | NR                           |
| 375               | 0                                    | NR                           | 505               | 196                                  | NR                           | 635               | 712                                  | NR                           | 765               | 17                                   | NR                           | 895               | 0                                    | NR                           |
| 380               | 0                                    | NR                           | 510               | 258                                  | NR                           | 640               | 648                                  | NR                           | 770               | 15                                   | NR                           | 900               | 0                                    | NR                           |
| 385               | 1                                    | NR                           | 515               | 317                                  | NR                           | 645               | 583                                  | NR                           | 775               | 12                                   | NR                           | 905               | 0                                    | NR                           |
| 390               | 2                                    | NR                           | 520               | 368                                  | NR                           | 650               | 523                                  | NR                           | 780               | 11                                   | NR                           | 910               | 0                                    | NR                           |
| 395               | 4                                    | NR                           | 525               | 408                                  | NR                           | 655               | 465                                  | NR                           | 785               | 9                                    | NR                           | 915               | 0                                    | NR                           |
| 400               | 6                                    | NR                           | 530               | 443                                  | NR                           | 660               | 410                                  | NR                           | 790               | 8                                    | NR                           | 920               | 0                                    | NR                           |
| 405               | 11                                   | NR                           | 535               | 473                                  | NR                           | 665               | 360                                  | NR                           | 795               | 7                                    | NR                           | 925               | 0                                    | NR                           |
| 410               | 23                                   | NR                           | 540               | 498                                  | NR                           | 670               | 313                                  | NR                           | 800               | 6                                    | NR                           | 930               | 0                                    | NR                           |
| 415               | 51                                   | NR                           | 545               | 530                                  | NR                           | 675               | 272                                  | NR                           | 805               | 5                                    | NR                           | 935               | 0                                    | NR                           |
| 420               | 111                                  | NR                           | 550               | 563                                  | NR                           | 680               | 236                                  | NR                           | 810               | 4                                    | NR                           | 940               | 0                                    | NR                           |
| 425               | 214                                  | NR                           | 555               | 605                                  | NR                           | 685               | 203                                  | NR                           | 815               | 4                                    | NR                           | 945               | 0                                    | NR                           |
| 430               | 339                                  | NR                           | 560               | 651                                  | NR                           | 690               | 175                                  | NR                           | 820               | 3                                    | NR                           | 950               | 0                                    | NR                           |
| 435               | 467                                  | NR                           | 565               | 705                                  | NR                           | 695               | 150                                  | NR                           | 825               | 3                                    | NR                           | 955               | 0                                    | NR                           |
| 440               | 535                                  | NR                           | 570               | 765                                  | NR                           | 700               | 128                                  | NR                           | 830               | 3                                    | NR                           | 960               | 0                                    | NR                           |
| 445               | 372                                  | NR                           | 575               | 824                                  | NR                           | 705               | 110                                  | NR                           | 835               | 2                                    | NR                           | 965               | 0                                    | NR                           |
| 450               | 160                                  | NR                           | 580               | 882                                  | NR                           | 710               | 94                                   | NR                           | 840               | 2                                    | NR                           | 970               | 0                                    | NR                           |
| 455               | 89                                   | NR                           | 585               | 930                                  | NR                           | 715               | 80                                   | NR                           | 845               | 2                                    | NR                           | 975               | 0                                    | NR                           |
| 460               | 53                                   | NR                           | 590               | 968                                  | NR                           | 720               | 69                                   | NR                           | 850               | 1                                    | NR                           | 980               | 0                                    | NR                           |
| 465               | 31                                   | NR                           | 595               | 991                                  | NR                           | 725               | 59                                   | NR                           | 855               | 1                                    | NR                           | 985               | 0                                    | NR                           |
| 470               | 23                                   | NR                           | 600               | 999                                  | NR                           | 730               | 50                                   | NR                           | 860               | 1                                    | NR                           | 990               | 0                                    | NR                           |
| 475               | 21                                   | NR                           | 605               | 992                                  | NR                           | 735               | 43                                   | NR                           | 865               | 1                                    | NR                           | 995               | 0                                    | NR                           |
| 480               | 23                                   | NR                           | 610               | 969                                  | NR                           | 740               | 36                                   | NR                           | 870               | 1                                    | NR                           | 1000              | 0                                    | NR                           |
| 485               | 32                                   | NR                           | 615               | 935                                  | NR                           | 745               | 31                                   | NR                           | 875               | 1                                    | NR                           |                   |                                      |                              |

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### Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.71

| 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       | 52                          | NR               | 620       | 888                         | NR               | 750       | 27                          | NR               | 880       | 1                           | NR               |
| 365       | 0                           | NR               | 495       | 87                          | NR               | 625       | 834                         | NR               | 755       | 23                          | NR               | 885       | 1                           | NR               |
| 370       | 0                           | NR               | 500       | 135                         | NR               | 630       | 776                         | NR               | 760       | 20                          | NR               | 890       | 1                           | NR               |
| 375       | 0                           | NR               | 505       | 196                         | NR               | 635       | 712                         | NR               | 765       | 17                          | NR               | 895       | 0                           | NR               |
| 380       | 0                           | NR               | 510       | 258                         | NR               | 640       | 648                         | NR               | 770       | 15                          | NR               | 900       | 0                           | NR               |
| 385       | 1                           | NR               | 515       | 317                         | NR               | 645       | 583                         | NR               | 775       | 12                          | NR               | 905       | 0                           | NR               |
| 390       | 2                           | NR               | 520       | 368                         | NR               | 650       | 523                         | NR               | 780       | 11                          | NR               | 910       | 0                           | NR               |
| 395       | 4                           | NR               | 525       | 408                         | NR               | 655       | 465                         | NR               | 785       | 9                           | NR               | 915       | 0                           | NR               |
| 400       | 6                           | NR               | 530       | 443                         | NR               | 660       | 410                         | NR               | 790       | 8                           | NR               | 920       | 0                           | NR               |
| 405       | 11                          | NR               | 535       | 473                         | NR               | 665       | 360                         | NR               | 795       | 7                           | NR               | 925       | 0                           | NR               |
| 410       | 23                          | NR               | 540       | 498                         | NR               | 670       | 313                         | NR               | 800       | 6                           | NR               | 930       | 0                           | NR               |
| 415       | 51                          | NR               | 545       | 530                         | NR               | 675       | 272                         | NR               | 805       | 5                           | NR               | 935       | 0                           | NR               |
| 420       | 111                         | NR               | 550       | 563                         | NR               | 680       | 236                         | NR               | 810       | 4                           | NR               | 940       | 0                           | NR               |
| 425       | 214                         | NR               | 555       | 605                         | NR               | 685       | 203                         | NR               | 815       | 4                           | NR               | 945       | 0                           | NR               |
| 430       | 339                         | NR               | 560       | 651                         | NR               | 690       | 175                         | NR               | 820       | 3                           | NR               | 950       | 0                           | NR               |
| 435       | 467                         | NR               | 565       | 705                         | NR               | 695       | 150                         | NR               | 825       | 3                           | NR               | 955       | 0                           | NR               |
| 440       | 535                         | NR               | 570       | 765                         | NR               | 700       | 128                         | NR               | 830       | 3                           | NR               | 960       | 0                           | NR               |
| 445       | 372                         | NR               | 575       | 824                         | NR               | 705       | 110                         | NR               | 835       | 2                           | NR               | 965       | 0                           | NR               |
| 450       | 160                         | NR               | 580       | 882                         | NR               | 710       | 94                          | NR               | 840       | 2                           | NR               | 970       | 0                           | NR               |
| 455       | 89                          | NR               | 585       | 930                         | NR               | 715       | 80                          | NR               | 845       | 2                           | NR               | 975       | 0                           | NR               |
| 460       | 53                          | NR               | 590       | 968                         | NR               | 720       | 69                          | NR               | 850       | 1                           | NR               | 980       | 0                           | NR               |
| 465       | 31                          | NR               | 595       | 991                         | NR               | 725       | 59                          | NR               | 855       | 1                           | NR               | 985       | 0                           | NR               |
| 470       | 23                          | NR               | 600       | 999                         | NR               | 730       | 50                          | NR               | 860       | 1                           | NR               | 990       | 0                           | NR               |
| 475       | 21                          | NR               | 605       | 992                         | NR               | 735       | 43                          | NR               | 865       | 1                           | NR               | 995       | 0                           | NR               |
| 480       | 23                          | NR               | 610       | 969                         | NR               | 740       | 36                          | NR               | 870       | 1                           | NR               | 1000      | 0                           | NR               |
| 485       | 32                          | NR               | 615       | 935                         | NR               | 745       | 31                          | NR               | 875       | 1                           | NR               |           |                             |                  |

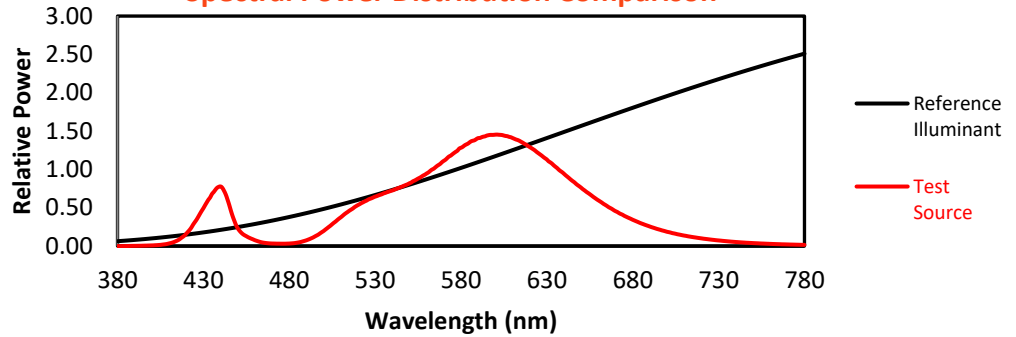
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TM-30-18

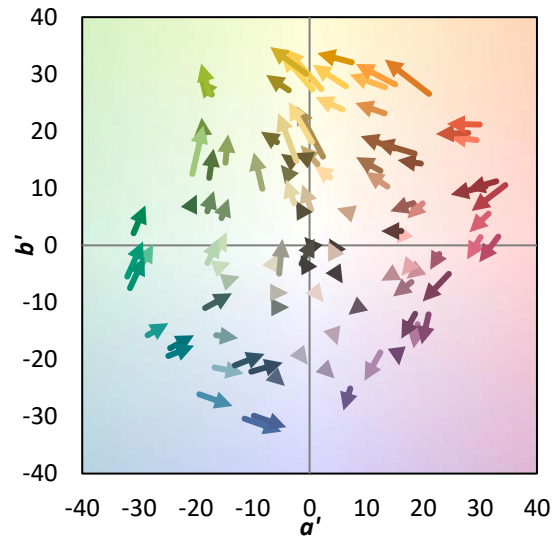
### Summary

$R_f = 67.9$   
 $R_g = 98.6$   
 $CIE R_a = 71.1$   
 $R_g = -27.8$

### Spectral Power Distribution Comparison

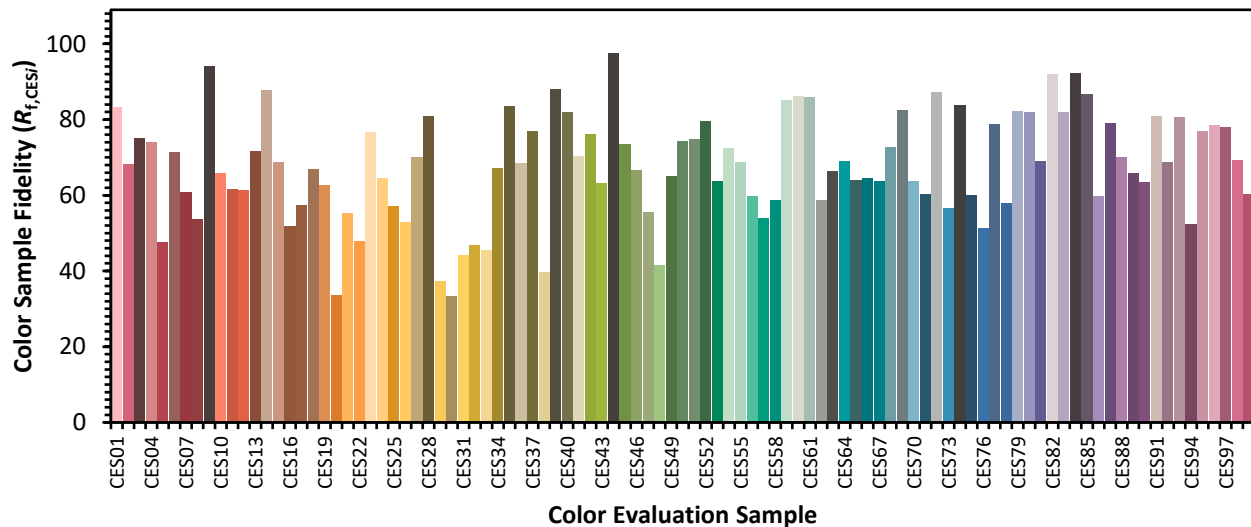


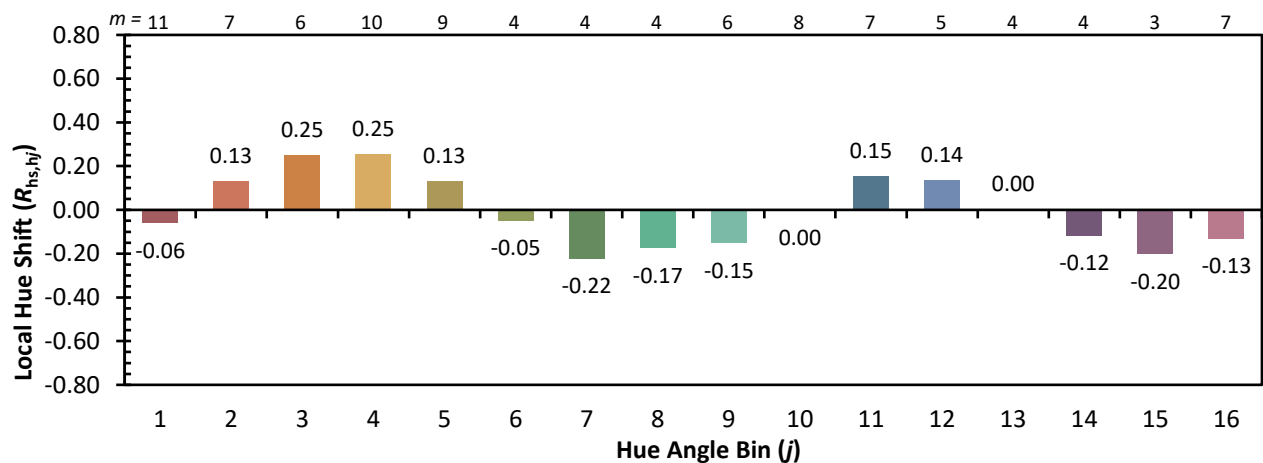
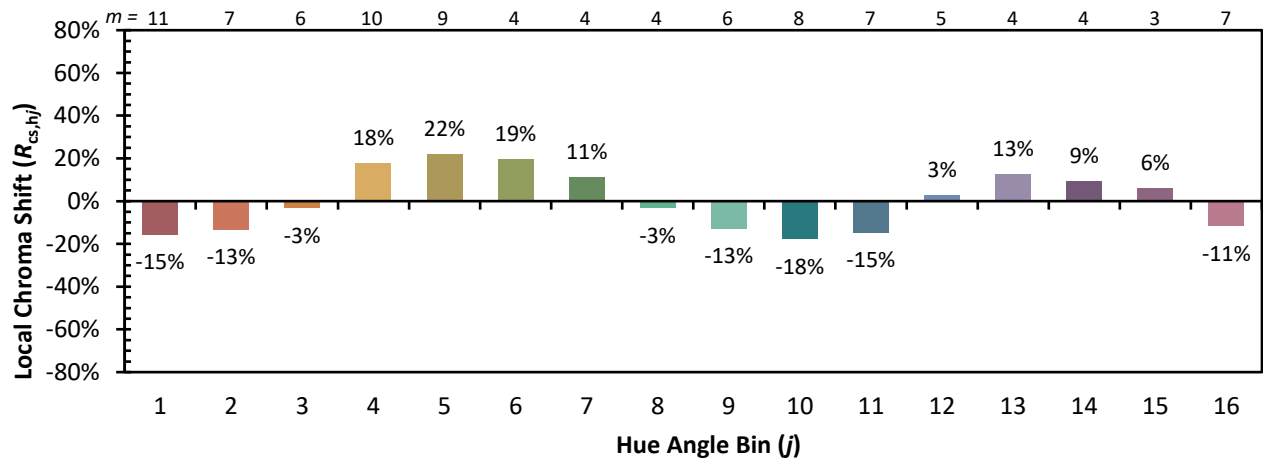
### Color Vector Graphics



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

|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 53 | CES51 = 75 | CES76 = 51 |
| CES02 = 63 | CES27 = 70 | CES52 = 80 | CES77 = 79 |
| CES03 = 31 | CES28 = 81 | CES53 = 64 | CES78 = 58 |
| CES04 = 71 | CES29 = 37 | CES54 = 73 | CES79 = 82 |
| CES05 = 50 | CES30 = 33 | CES55 = 69 | CES80 = 82 |
| CES06 = 52 | CES31 = 44 | CES56 = 60 | CES81 = 69 |
| CES07 = 42 | CES32 = 47 | CES57 = 54 | CES82 = 92 |
| CES08 = 41 | CES33 = 45 | CES58 = 59 | CES83 = 82 |
| CES09 = 29 | CES34 = 67 | CES59 = 85 | CES84 = 92 |
| CES10 = 77 | CES35 = 84 | CES60 = 86 | CES85 = 87 |
| CES11 = 60 | CES36 = 68 | CES61 = 86 | CES86 = 60 |
| CES12 = 66 | CES37 = 77 | CES62 = 59 | CES87 = 79 |
| CES13 = 44 | CES38 = 40 | CES63 = 66 | CES88 = 70 |
| CES14 = 74 | CES39 = 88 | CES64 = 69 | CES89 = 66 |
| CES15 = 72 | CES40 = 82 | CES65 = 64 | CES90 = 64 |
| CES16 = 48 | CES41 = 70 | CES66 = 65 | CES91 = 81 |
| CES17 = 51 | CES42 = 76 | CES67 = 64 | CES92 = 69 |
| CES18 = 57 | CES43 = 63 | CES68 = 73 | CES93 = 81 |
| CES19 = 73 | CES44 = 97 | CES69 = 83 | CES94 = 53 |
| CES20 = 67 | CES45 = 74 | CES70 = 64 | CES95 = 77 |
| CES21 = 88 | CES46 = 67 | CES71 = 60 | CES96 = 79 |
| CES22 = 80 | CES47 = 55 | CES72 = 87 | CES97 = 78 |
| CES23 = 92 | CES48 = 42 | CES73 = 57 | CES98 = 69 |
| CES24 = 92 | CES49 = 65 | CES74 = 84 | CES99 = 60 |
| CES25 = 73 | CES50 = 74 | CES75 = 60 |            |



**Color Rendition by Hue-Angle Bin**


**Measure Comparisons**



(END OF REPORT)