

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: McGRAW-EDISON

Report Number: P1049575

Luminaire Tested: **GALN-SA2C-730-U-LBC**

Issue Date: 07/10/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1049575  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/10/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2C-730-U-LBC  
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 2xLight Square PACKAGE  
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (28) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10058.4 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G2

Input Watts (W): 96.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.97  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

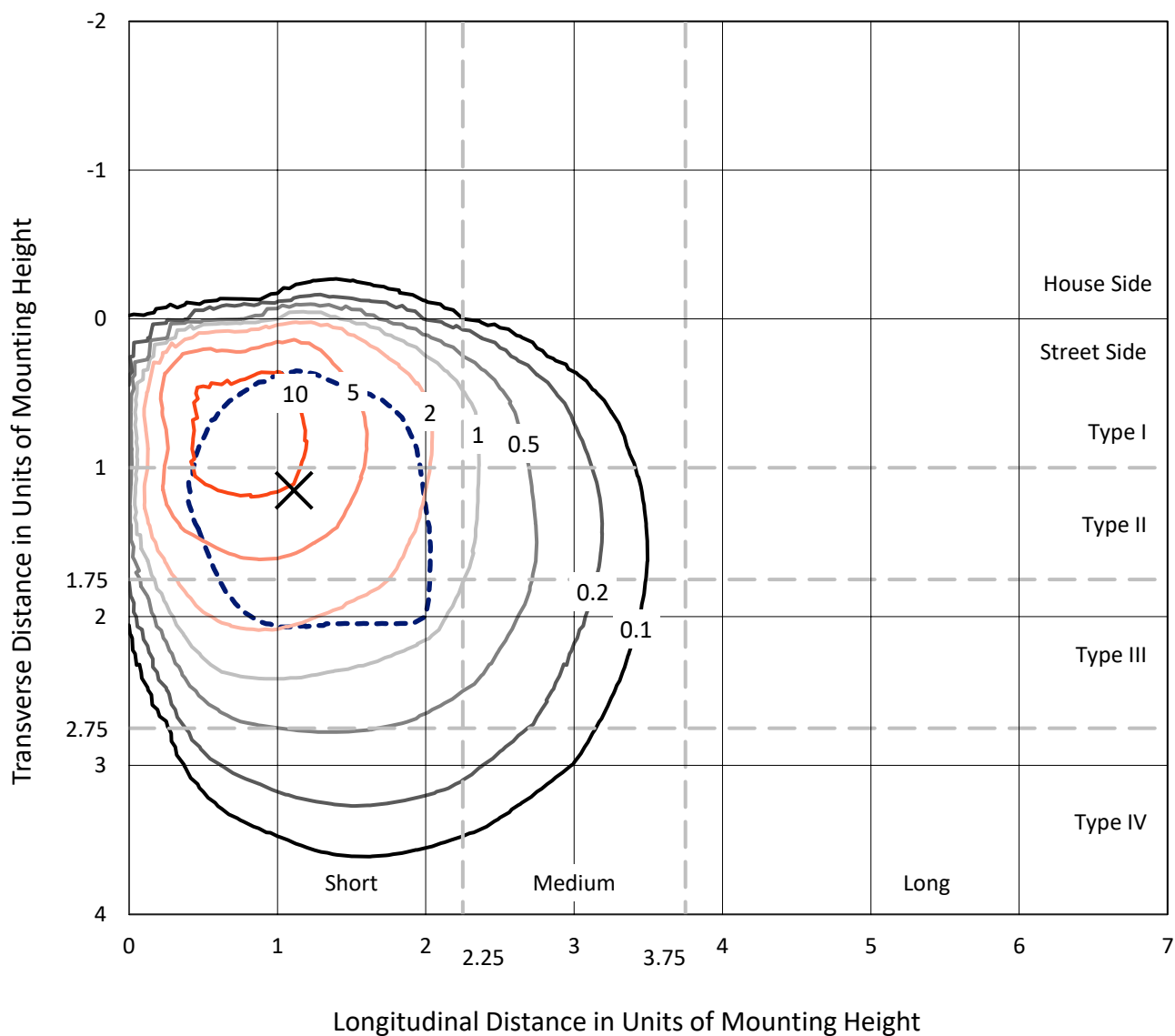
REPORT NUMBER: P1049575

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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

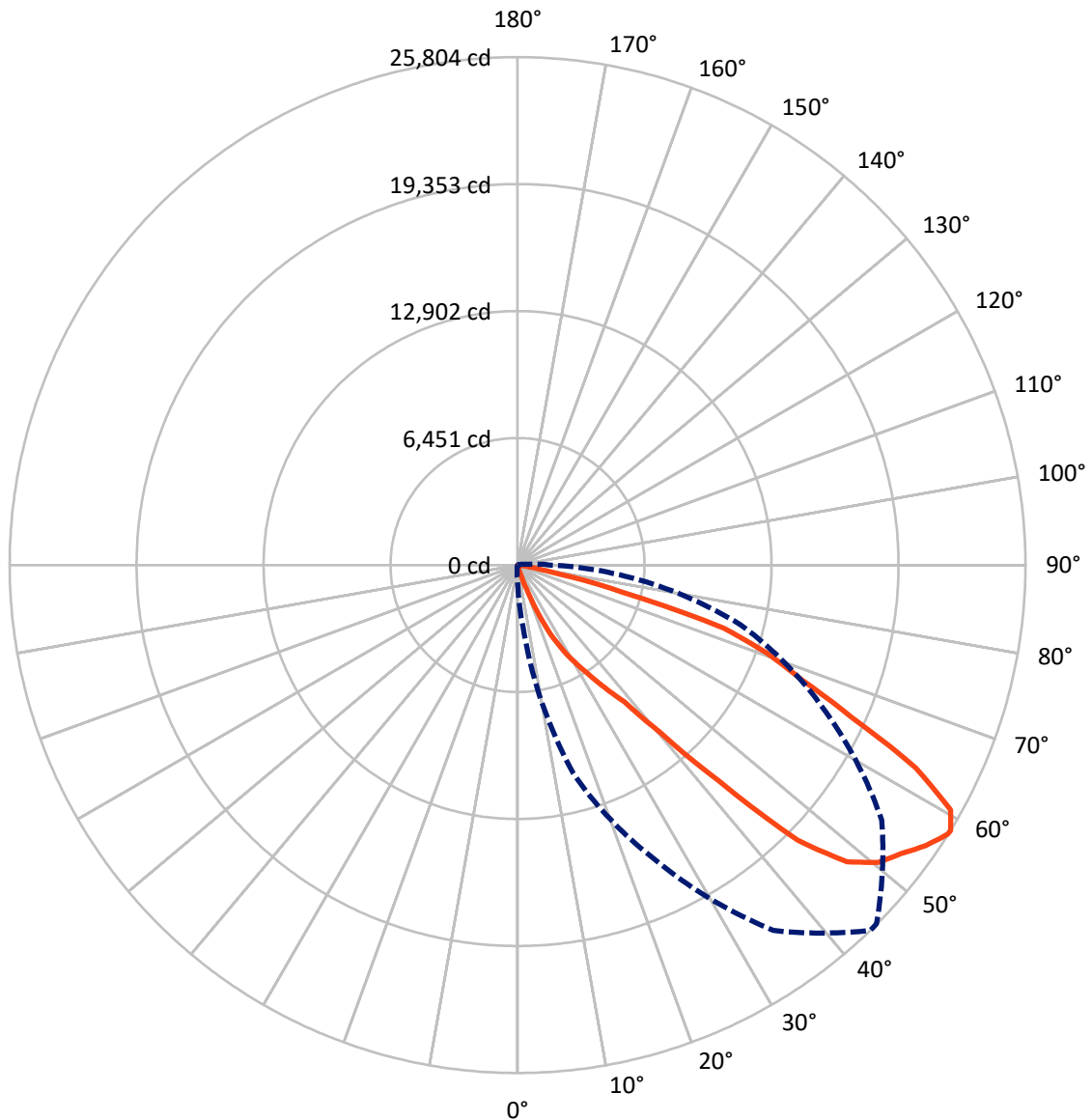


Based on 20 foot mounting height. Maximum calculated value = 17.5 fc

Type III - Short - N/A

REPORT NUMBER: P1049575  
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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    | 68.7     | 0.0    | 68.7    |
|                    | % Fixture | 0.7      | 0.0    | 0.7     |
| <b>Street Side</b> | Lumens    | 9989.7   | 0.0    | 9989.7  |
|                    | % Fixture | 99.3     | 0.0    | 99.3    |
| <b>Total</b>       | Lumens    | 10058.4  | 0.0    | 10058.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 3.9     | 0.0       |
| 10°-20°   | 22.1    | 0.2       |
| 20°-30°   | 238.3   | 2.4       |
| 30°-40°   | 704.7   | 7.0       |
| 40°-50°   | 2100.4  | 20.9      |
| 50°-60°   | 3332.8  | 33.1      |
| 60°-70°   | 2779.9  | 27.6      |
| 70°-80°   | 857.4   | 8.5       |
| 80°-90°   | 19.0    | 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°    | 10058.4 | 100.0     |
| 0°-180°   | 10058.4 | 100.0     |



REPORT NUMBER: P1049575

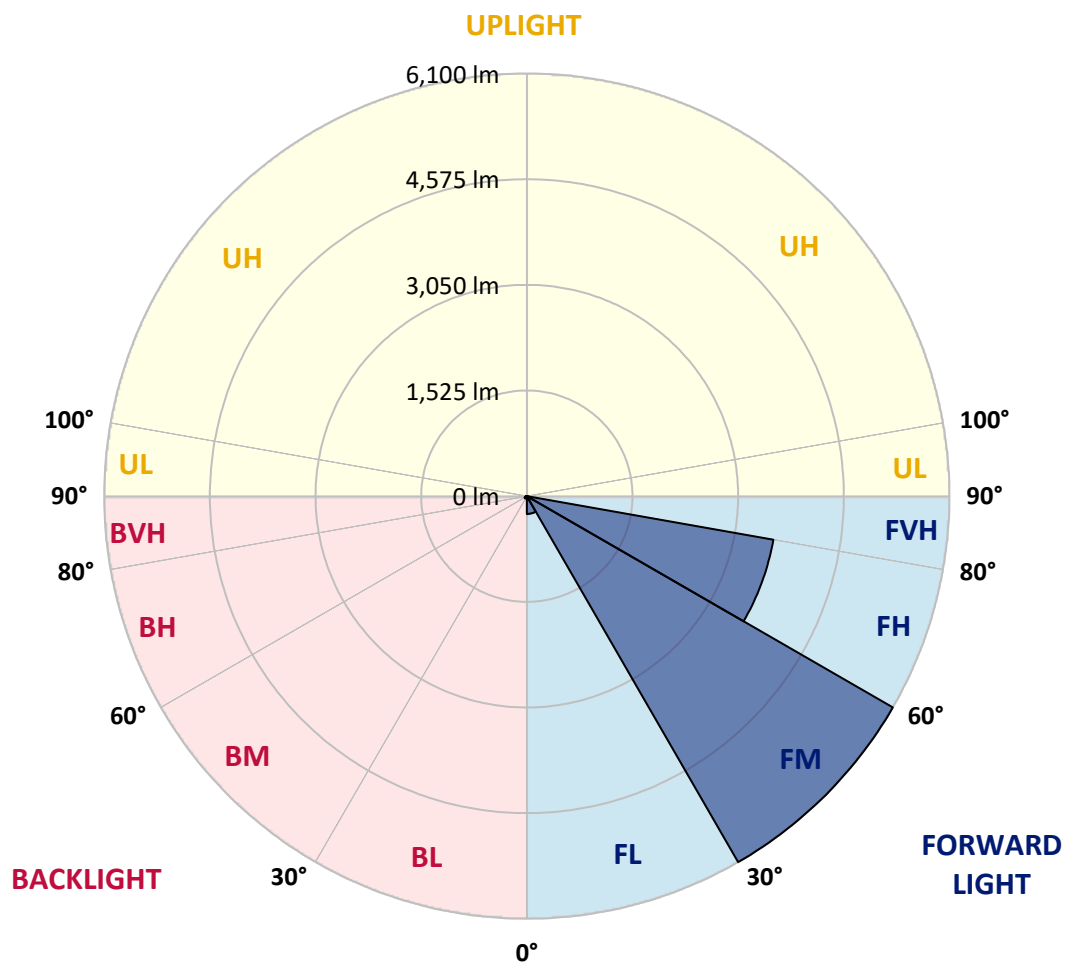
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 257.6  | 2.6       |                         |      |         |
| FM   | (30°-60°)   | 6100.2 | 60.6      |                         |      |         |
| FH   | (60°-80°)   | 3613.8 | 35.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 18.1   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 6.7    | 0.1       | B0/110                  |      |         |
| BM   | (30°-60°)   | 37.6   | 0.4       | B0/220                  |      |         |
| BH   | (60°-80°)   | 23.4   | 0.2       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.9    | 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-G2**

Type III Short



REPORT NUMBER: P1049575

CATALOG NUMBER: GALN-SA2C-730-U-LBC

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°     | 15°     | 25°     | 35°     | 44°     | 45°     | 55°     | 65°     | 75°     |
|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 44.1  | 44.1   | 44.1    | 44.1    | 44.1    | 44.1    | 44.1    | 44.1    | 44.1    | 44.1    |
| 2.5°  | 57.0  | 57.0   | 54.7    | 51.7    | 48.6    | 45.6    | 44.8    | 43.3    | 42.6    | 41.8    |
| 5°    | 59.3  | 59.3   | 58.5    | 56.2    | 53.2    | 50.9    | 50.9    | 48.6    | 47.1    | 45.6    |
| 7.5°  | 60.8  | 61.5   | 63.1    | 62.3    | 60.8    | 58.5    | 58.5    | 57.0    | 54.7    | 50.9    |
| 10°   | 63.1  | 65.3   | 68.4    | 69.9    | 70.7    | 70.7    | 69.9    | 69.1    | 65.3    | 60.0    |
| 12.5° | 65.3  | 69.9   | 77.5    | 85.1    | 89.7    | 95.7    | 95.0    | 93.5    | 83.6    | 72.2    |
| 15°   | 69.9  | 76.7   | 92.7    | 114.7   | 148.9   | 170.2   | 178.6   | 171.0   | 138.3   | 97.3    |
| 17.5° | 75.2  | 86.6   | 134.5   | 240.1   | 393.6   | 466.5   | 510.6   | 474.9   | 314.6   | 184.6   |
| 20°   | 80.5  | 105.6  | 250.0   | 622.3   | 1021.2  | 1259.8  | 1325.9  | 1222.6  | 784.9   | 351.8   |
| 22.5° | 89.7  | 148.2  | 506.8   | 1286.4  | 2200.5  | 2558.3  | 2626.0  | 2295.4  | 1482.4  | 694.5   |
| 25°   | 108.7 | 215.0  | 873.8   | 2096.4  | 3284.0  | 3888.0  | 3859.9  | 3426.8  | 2404.9  | 1109.3  |
| 27.5° | 136.0 | 313.0  | 1321.3  | 2978.5  | 4321.9  | 4854.5  | 4918.4  | 4382.7  | 3205.7  | 1631.3  |
| 30°   | 175.5 | 433.9  | 1801.6  | 3685.2  | 5153.9  | 5729.9  | 5740.5  | 5186.6  | 3922.2  | 2089.5  |
| 32.5° | 213.5 | 547.8  | 2221.7  | 4368.2  | 5973.8  | 6605.2  | 6652.3  | 5970.7  | 4457.1  | 2566.7  |
| 35°   | 242.4 | 622.3  | 2647.2  | 4968.5  | 6800.5  | 7670.5  | 7667.4  | 6858.2  | 5090.8  | 2993.0  |
| 37.5° | 244.7 | 696.8  | 3032.5  | 5582.5  | 7847.5  | 8821.6  | 8918.1  | 8026.1  | 5856.7  | 3520.3  |
| 40°   | 239.3 | 780.3  | 3520.3  | 6539.8  | 9734.1  | 11228.7 | 11313.8 | 10189.3 | 7393.1  | 4423.0  |
| 42.5° | 245.4 | 925.5  | 4312.0  | 8308.0  | 12866.9 | 15013.4 | 15177.6 | 13995.3 | 10217.4 | 6264.8  |
| 45°   | 277.3 | 1198.2 | 5970.7  | 11266.0 | 17332.4 | 19949.3 | 19894.6 | 18191.8 | 13503.7 | 9068.5  |
| 47.5° | 383.0 | 1866.1 | 8429.5  | 14144.9 | 20186.3 | 22516.7 | 22563.8 | 20482.7 | 15421.5 | 11224.2 |
| 50°   | 588.9 | 2855.4 | 10495.5 | 15666.9 | 21413.5 | 23751.4 | 23707.4 | 21302.5 | 16150.1 | 12285.6 |
| 52.5° | 765.9 | 3571.2 | 11531.9 | 16201.0 | 21570.7 | 24361.6 | 24358.5 | 21518.3 | 16263.3 | 12376.8 |
| 55°   | 810.0 | 3625.1 | 11540.3 | 16229.9 | 21923.3 | 25160.2 | 25260.5 | 22049.4 | 16410.0 | 11978.7 |
| 57.5° | 792.5 | 3209.5 | 11058.5 | 16397.1 | 22550.9 | 25777.9 | 25783.2 | 22563.8 | 16782.3 | 11734.8 |
| 58°   | 777.3 | 3144.2 | 10961.3 | 16492.1 | 22658.8 | 25803.7 | 25790.8 | 22587.4 | 17085.5 | 11725.7 |
| 60°   | 692.2 | 2730.1 | 10582.1 | 16734.4 | 22498.5 | 25273.4 | 25152.6 | 22073.0 | 17040.6 | 11632.2 |
| 62.5° | 544.0 | 2129.8 | 10209.0 | 16454.1 | 20779.8 | 22705.9 | 22756.1 | 19542.0 | 15534.7 | 11087.4 |
| 65°   | 433.1 | 1587.3 | 9431.0  | 14432.9 | 17111.3 | 18646.2 | 18833.1 | 15891.0 | 12966.5 | 9388.4  |
| 67.5° | 345.0 | 1147.3 | 7911.3  | 11490.9 | 13540.1 | 15562.0 | 15698.0 | 13341.8 | 10045.7 | 7193.3  |
| 70°   | 280.4 | 775.8  | 5460.9  | 8403.7  | 11167.9 | 13441.3 | 13449.7 | 11083.6 | 7498.0  | 4713.2  |
| 72.5° | 248.5 | 537.2  | 3170.0  | 6128.8  | 9055.6  | 10952.9 | 10731.8 | 8994.1  | 5762.5  | 2791.6  |
| 75°   | 215.0 | 356.4  | 1554.6  | 3746.7  | 5490.5  | 5527.7  | 5612.1  | 4172.2  | 2880.5  | 1327.4  |
| 77.5° | 177.0 | 253.0  | 612.4   | 1023.5  | 1646.5  | 2107.8  | 2186.0  | 1656.4  | 958.1   | 326.7   |
| 80°   | 121.6 | 120.1  | 164.9   | 313.8   | 471.1   | 590.4   | 550.9   | 426.3   | 250.7   | 125.4   |
| 82.5° | 52.4  | 57.0   | 74.5    | 89.7    | 72.9    | 70.7    | 67.6    | 43.3    | 33.4    | 25.8    |
| 85°   | 16.7  | 15.2   | 16.0    | 16.0    | 12.9    | 9.9     | 9.9     | 4.6     | 0.0     | 0.0     |
| 87.5° | 8.4   | 6.8    | 6.8     | 6.1     | 3.8     | 1.5     | 0.8     | 0.0     | 0.0     | 0.0     |
| 90°   | 0.0   | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

REPORT NUMBER: P1049575

CATALOG NUMBER: GALN-SA2C-730-U-LBC

**CANDELA DISTRIBUTION (continued):**

| 85°    |       | 90°    | 95°   | 105°  | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|-------|-------|------|------|------|------|------|------|------|
| 44.1   | 0°    | 44.1   | 44.1  | 44.1  | 44.1 | 44.1 | 44.1 | 44.1 | 44.1 | 44.1 | 44.1 |
| 41.0   | 2.5°  | 40.3   | 40.3  | 38.8  | 37.2 | 36.5 | 35.0 | 34.2 | 33.4 | 32.7 | 31.9 |
| 44.1   | 5°    | 42.6   | 41.8  | 39.5  | 37.2 | 35.0 | 32.7 | 31.2 | 29.6 | 28.1 | 27.4 |
| 48.6   | 7.5°  | 46.3   | 44.8  | 40.3  | 36.5 | 33.4 | 30.4 | 28.9 | 26.6 | 25.1 | 22.8 |
| 53.9   | 10°   | 50.9   | 47.9  | 41.8  | 37.2 | 32.7 | 28.9 | 26.6 | 24.3 | 22.0 | 19.0 |
| 61.5   | 12.5° | 57.0   | 51.7  | 44.1  | 36.5 | 31.2 | 26.6 | 24.3 | 21.3 | 19.0 | 16.7 |
| 71.4   | 15°   | 62.3   | 55.5  | 44.8  | 36.5 | 29.6 | 24.3 | 21.3 | 18.2 | 16.0 | 12.9 |
| 89.7   | 17.5° | 69.9   | 58.5  | 44.1  | 34.2 | 27.4 | 21.3 | 18.2 | 16.0 | 12.2 | 7.6  |
| 133.0  | 20°   | 82.8   | 60.8  | 42.6  | 31.9 | 23.6 | 17.5 | 13.7 | 10.6 | 5.3  | 1.5  |
| 199.8  | 22.5° | 103.3  | 66.9  | 41.0  | 28.9 | 20.5 | 13.7 | 9.1  | 3.8  | 0.0  | 0.0  |
| 303.9  | 25°   | 142.8  | 77.5  | 41.0  | 27.4 | 18.2 | 9.9  | 3.0  | 0.0  | 0.0  | 0.0  |
| 431.6  | 27.5° | 190.0  | 91.9  | 41.0  | 23.6 | 14.4 | 5.3  | 0.0  | 0.0  | 0.0  | 0.0  |
| 588.1  | 30°   | 237.8  | 107.9 | 41.0  | 20.5 | 11.4 | 0.8  | 0.0  | 0.0  | 0.0  | 0.0  |
| 724.1  | 32.5° | 283.4  | 121.6 | 41.8  | 17.5 | 7.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 912.6  | 35°   | 329.8  | 123.9 | 41.0  | 15.2 | 4.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1143.5 | 37.5° | 389.0  | 119.3 | 38.8  | 13.7 | 2.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1504.5 | 40°   | 478.7  | 121.6 | 36.5  | 12.9 | 0.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2148.0 | 42.5° | 644.3  | 131.5 | 33.4  | 12.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 3421.5 | 45°   | 1113.9 | 176.3 | 30.4  | 13.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5136.4 | 47.5° | 1842.6 | 316.8 | 29.6  | 13.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 6187.3 | 50°   | 2351.7 | 398.9 | 31.2  | 14.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 6318.7 | 52.5° | 2347.9 | 444.5 | 32.7  | 15.2 | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5824.1 | 55°   | 2087.2 | 452.9 | 35.0  | 16.7 | 9.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5005.0 | 57.5° | 1744.6 | 413.3 | 40.3  | 20.5 | 18.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 4876.6 | 58°   | 1683.8 | 395.1 | 41.8  | 21.3 | 19.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 4230.0 | 60°   | 1379.8 | 322.2 | 53.2  | 26.6 | 26.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 3467.9 | 62.5° | 952.8  | 281.1 | 60.8  | 34.2 | 27.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2556.8 | 65°   | 674.0  | 253.8 | 66.1  | 36.5 | 22.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1816.7 | 67.5° | 503.8  | 234.0 | 72.9  | 37.2 | 11.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1139.7 | 70°   | 386.0  | 219.6 | 89.7  | 39.5 | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 679.3  | 72.5° | 314.6  | 202.9 | 108.7 | 41.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 407.3  | 75°   | 260.6  | 183.1 | 104.9 | 44.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 217.3  | 77.5° | 173.2  | 142.1 | 95.7  | 44.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 77.5   | 80°   | 60.8   | 56.2  | 74.5  | 39.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 16.0   | 82.5° | 9.1    | 7.6   | 10.6  | 13.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0    | 85°   | 0.0    | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0    | 87.5° | 0.0    | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0    | 90°   | 0.0    | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

REPORT NUMBER: P1049575

CATALOG NUMBER: GALN-SA2C-730-U-LBC

**CANDELA DISTRIBUTION (continued):**

| 180° |       | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° |
|------|-------|------|------|------|------|------|------|------|------|------|------|
| 44.1 | 0°    | 44.1 | 44.1 | 44.1 | 44.1 | 44.1 | 44.1 | 44.1 | 44.1 | 44.1 | 44.1 |
| 31.2 | 2.5°  | 31.2 | 31.2 | 30.4 | 31.2 | 31.2 | 32.7 | 36.5 | 41.8 | 47.9 | 50.1 |
| 26.6 | 5°    | 25.8 | 25.1 | 24.3 | 24.3 | 24.3 | 26.6 | 29.6 | 35.7 | 42.6 | 45.6 |
| 22.0 | 7.5°  | 21.3 | 20.5 | 19.8 | 19.0 | 19.0 | 20.5 | 24.3 | 31.2 | 38.0 | 41.0 |
| 18.2 | 10°   | 17.5 | 16.0 | 15.2 | 14.4 | 14.4 | 16.0 | 19.8 | 26.6 | 34.2 | 37.2 |
| 15.2 | 12.5° | 14.4 | 12.2 | 10.6 | 9.9  | 9.1  | 11.4 | 15.2 | 21.3 | 29.6 | 33.4 |
| 11.4 | 15°   | 9.9  | 7.6  | 5.3  | 4.6  | 3.8  | 6.1  | 9.9  | 16.7 | 25.1 | 29.6 |
| 6.1  | 17.5° | 5.3  | 2.3  | 0.8  | 0.0  | 0.0  | 1.5  | 4.6  | 12.2 | 20.5 | 24.3 |
| 0.0  | 20°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.1  | 15.2 | 19.0 |
| 0.0  | 22.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.8  | 9.1  | 12.9 |
| 0.0  | 25°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.8  | 6.8  |
| 0.0  | 27.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.5  |
| 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  | 2.3  |
| 0.0  | 87.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 6.1  |
| 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: P1049575

CATALOG NUMBER: GALN-SA2C-730-U-LBC

**CANDELA DISTRIBUTION (continued):**

| 275° |       | 285° | 295° | 305° | 315° | 316° | 325° | 335° | 345° | 355°  | 360°  |
|------|-------|------|------|------|------|------|------|------|------|-------|-------|
| 44.1 | 0°    | 44.1 | 44.1 | 44.1 | 44.1 | 44.1 | 44.1 | 44.1 | 44.1 | 44.1  | 44.1  |
| 52.4 | 2.5°  | 53.9 | 53.2 | 51.7 | 50.1 | 50.1 | 50.1 | 52.4 | 54.7 | 57.0  | 57.0  |
| 47.1 | 5°    | 50.1 | 50.1 | 49.4 | 47.9 | 47.9 | 48.6 | 51.7 | 55.5 | 58.5  | 59.3  |
| 43.3 | 7.5°  | 46.3 | 47.9 | 46.3 | 45.6 | 46.3 | 47.1 | 50.1 | 54.7 | 59.3  | 60.8  |
| 40.3 | 10°   | 44.1 | 44.8 | 44.8 | 44.1 | 44.1 | 45.6 | 48.6 | 54.7 | 60.8  | 63.1  |
| 36.5 | 12.5° | 41.0 | 42.6 | 41.8 | 41.8 | 41.8 | 43.3 | 47.1 | 53.9 | 62.3  | 65.3  |
| 32.7 | 15°   | 38.0 | 40.3 | 40.3 | 39.5 | 39.5 | 40.3 | 45.6 | 53.2 | 64.6  | 69.9  |
| 28.1 | 17.5° | 35.0 | 37.2 | 38.0 | 36.5 | 36.5 | 38.0 | 43.3 | 53.2 | 66.1  | 75.2  |
| 22.8 | 20°   | 28.9 | 32.7 | 35.0 | 32.7 | 32.7 | 34.2 | 39.5 | 50.1 | 66.9  | 80.5  |
| 16.7 | 22.5° | 22.8 | 26.6 | 29.6 | 28.9 | 28.9 | 29.6 | 36.5 | 47.9 | 67.6  | 89.7  |
| 9.9  | 25°   | 16.7 | 20.5 | 22.8 | 24.3 | 24.3 | 26.6 | 33.4 | 46.3 | 70.7  | 108.7 |
| 4.6  | 27.5° | 9.9  | 14.4 | 17.5 | 19.0 | 19.8 | 22.8 | 31.2 | 44.8 | 76.0  | 136.0 |
| 0.0  | 30°   | 4.6  | 8.4  | 12.2 | 15.2 | 15.2 | 20.5 | 28.9 | 43.3 | 82.8  | 175.5 |
| 0.0  | 32.5° | 0.0  | 3.8  | 6.1  | 10.6 | 11.4 | 16.7 | 26.6 | 41.8 | 92.7  | 213.5 |
| 0.0  | 35°   | 0.0  | 0.0  | 3.0  | 8.4  | 8.4  | 13.7 | 24.3 | 40.3 | 107.9 | 242.4 |
| 0.0  | 37.5° | 0.0  | 0.0  | 0.0  | 6.1  | 6.8  | 12.2 | 23.6 | 39.5 | 110.9 | 244.7 |
| 0.0  | 40°   | 0.0  | 0.0  | 0.0  | 4.6  | 5.3  | 11.4 | 23.6 | 40.3 | 100.3 | 239.3 |
| 0.0  | 42.5° | 0.0  | 0.0  | 0.0  | 3.0  | 3.8  | 11.4 | 23.6 | 41.8 | 90.4  | 245.4 |
| 0.0  | 45°   | 0.0  | 0.0  | 0.0  | 2.3  | 3.0  | 12.2 | 22.8 | 41.0 | 85.1  | 277.3 |
| 0.0  | 47.5° | 0.0  | 0.0  | 0.0  | 3.0  | 4.6  | 12.2 | 22.0 | 40.3 | 85.9  | 383.0 |
| 0.0  | 50°   | 0.0  | 0.0  | 0.0  | 3.8  | 5.3  | 12.2 | 22.8 | 38.8 | 94.2  | 588.9 |
| 0.0  | 52.5° | 0.0  | 0.0  | 0.0  | 3.0  | 4.6  | 13.7 | 25.1 | 38.0 | 102.6 | 765.9 |
| 0.0  | 55°   | 0.0  | 0.0  | 0.0  | 0.8  | 2.3  | 17.5 | 27.4 | 38.0 | 115.5 | 810.0 |
| 0.0  | 57.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 19.8 | 31.2 | 40.3 | 136.8 | 792.5 |
| 0.0  | 58°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 19.8 | 31.9 | 40.3 | 138.3 | 777.3 |
| 0.0  | 60°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 19.8 | 35.0 | 44.8 | 148.9 | 692.2 |
| 0.0  | 62.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 16.7 | 41.8 | 56.2 | 155.0 | 544.0 |
| 0.0  | 65°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 13.7 | 49.4 | 61.5 | 159.6 | 433.1 |
| 0.0  | 67.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 12.9 | 50.9 | 62.3 | 161.8 | 345.0 |
| 0.0  | 70°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 13.7 | 50.1 | 66.9 | 169.4 | 280.4 |
| 0.0  | 72.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 15.2 | 45.6 | 73.7 | 169.4 | 248.5 |
| 0.0  | 75°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 16.0 | 42.6 | 82.8 | 154.2 | 215.0 |
| 0.0  | 77.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 15.2 | 41.8 | 96.5 | 137.5 | 177.0 |
| 0.0  | 80°   | 1.5  | 2.3  | 2.3  | 1.5  | 1.5  | 12.9 | 41.0 | 98.0 | 117.0 | 121.6 |
| 0.8  | 82.5° | 4.6  | 6.1  | 5.3  | 3.8  | 3.8  | 11.4 | 36.5 | 82.1 | 60.8  | 52.4  |
| 4.6  | 85°   | 8.4  | 9.9  | 9.9  | 8.4  | 8.4  | 10.6 | 22.8 | 29.6 | 20.5  | 16.7  |
| 8.4  | 87.5° | 11.4 | 12.9 | 12.9 | 11.4 | 11.4 | 10.6 | 9.9  | 9.1  | 8.4   | 8.4   |
| 0.0  | 90°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   |

(END OF RI



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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

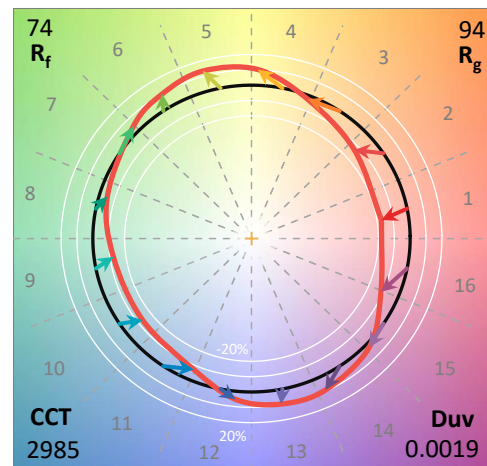
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2407-184-4  
 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-730-U-5WQ**  
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3000K CCT 26 LEDS

### Spectral Parameters

|                           |          |           |      |      |       |
|---------------------------|----------|-----------|------|------|-------|
| CCT (K):                  | 2985     | CRI (Ra): | 70.8 |      |       |
| CIE u':                   | 0.2504   | R1:       | 66.3 | R9:  | -43.2 |
| CIE v':                   | 0.5243   | R2:       | 80.6 | R10: | 57.6  |
| Duv:                      | 0.0019   | R3:       | 94.5 | R11: | 64.8  |
| CIE x:                    | 0.4408   | R4:       | 68.2 | R12: | 53.5  |
| CIE y:                    | 0.4101   | R5:       | 66.5 | R13: | 68.7  |
| CIE z:                    | 0.1491   | R6:       | 74.7 | R14: | 97.0  |
| Peak Wavelength (nm):     | 595      | R7:       | 76.2 | R15: | 56.4  |
| Dominant Wavelength (nm): | 582      | R8:       | 39.6 |      |       |
| Purity:                   | 55.41818 |           |      |      |       |
| Rf:                       | 73.8     |           |      |      |       |
| Rg:                       | 94.4     |           |      |      |       |



### Test Conditions

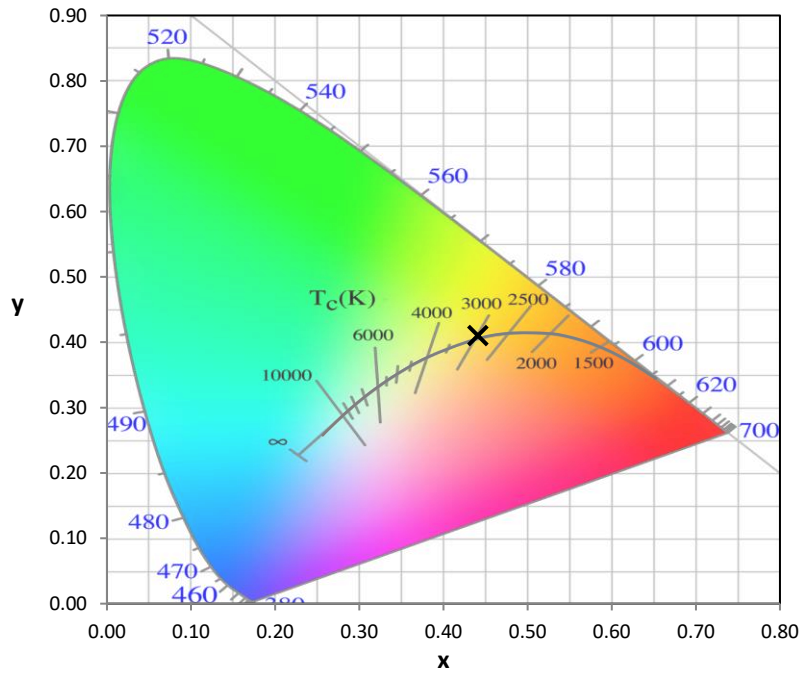
Stabilization Time: 36M  
 Operation Time: 1H 36M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

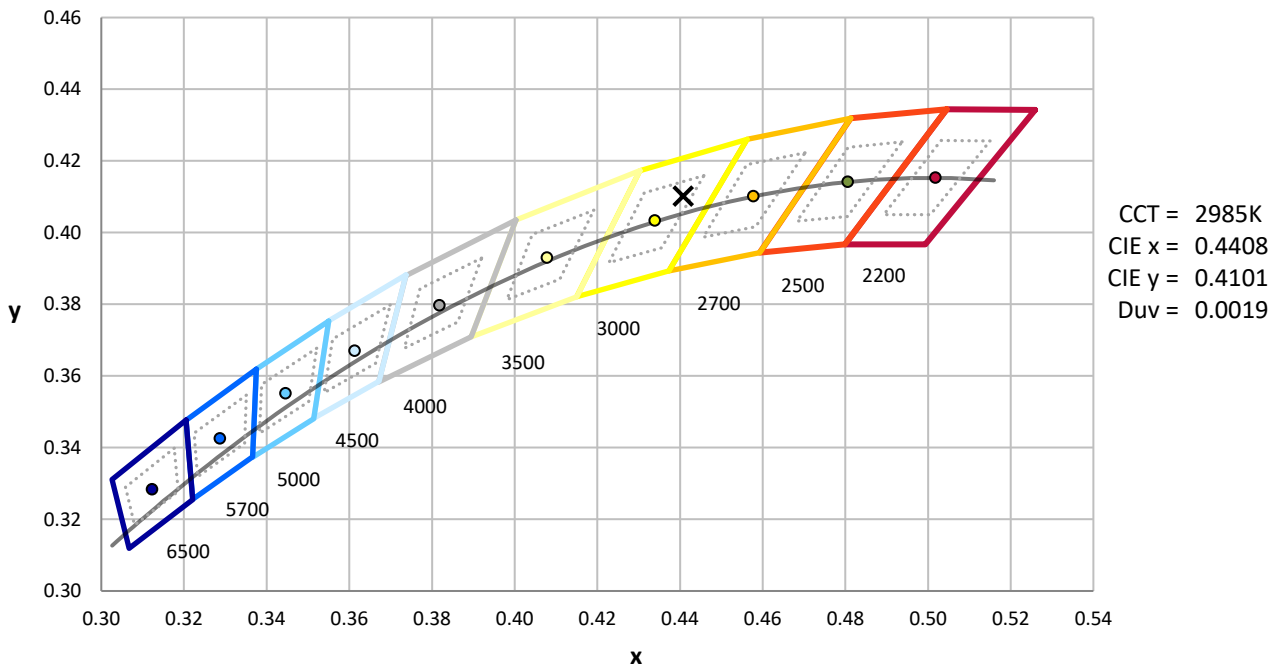
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| 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: SP1-2407-184-4

**CIE 1931 Chromaticity Diagram**



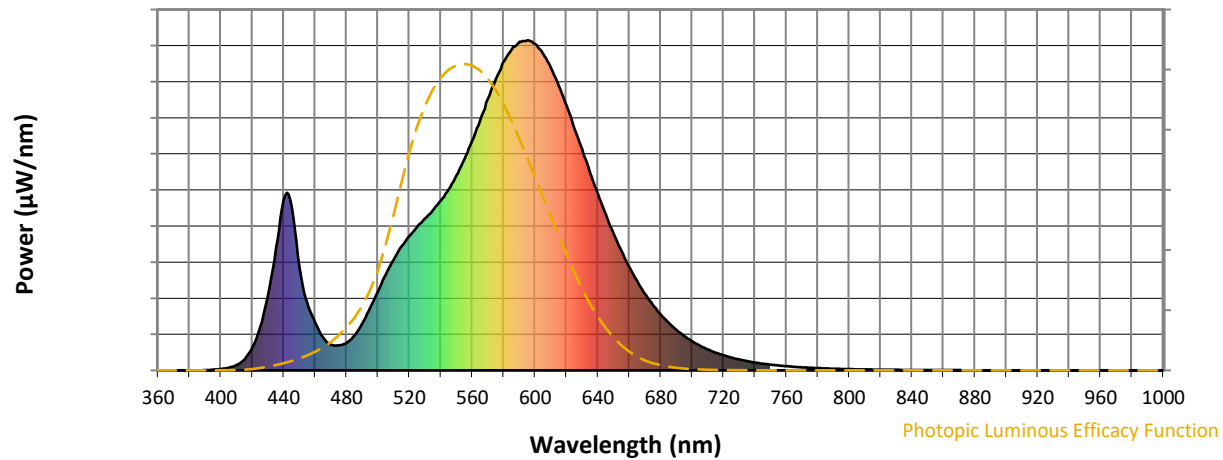
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

### Photopic Flux vs. Wavelength

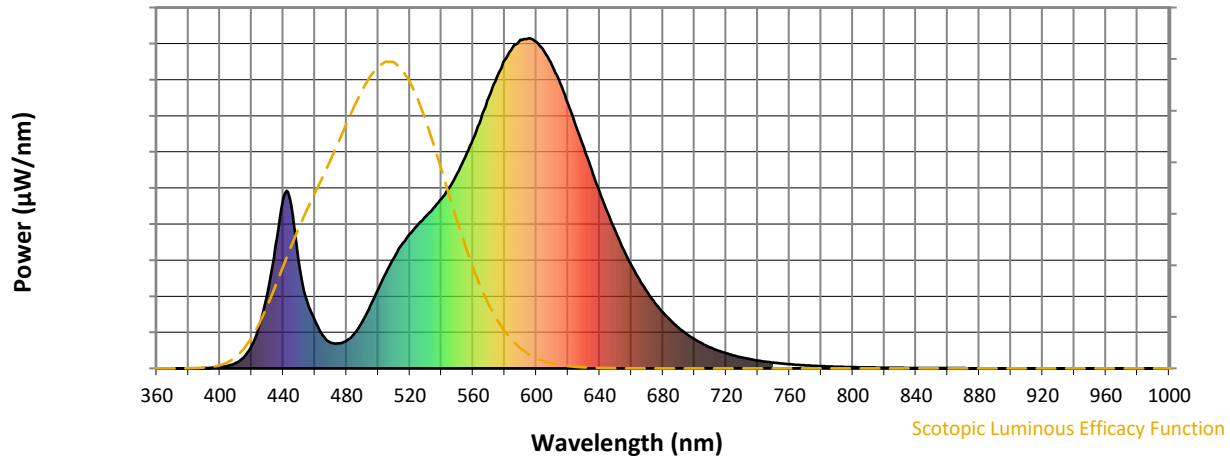


### Photopic Lumens: NR

| $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) |
|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|
| 360               | 0                                    | NR                             | 490               | 142                                  | NR                             | 620               | 803                                  | NR                             | 750               | 17                                   | NR                             | 880               | 0                                    | NR                             |
| 365               | 0                                    | NR                             | 495               | 189                                  | NR                             | 625               | 734                                  | NR                             | 755               | 15                                   | NR                             | 885               | 0                                    | NR                             |
| 370               | 0                                    | NR                             | 500               | 240                                  | NR                             | 630               | 670                                  | NR                             | 760               | 13                                   | NR                             | 890               | 0                                    | NR                             |
| 375               | 0                                    | NR                             | 505               | 290                                  | NR                             | 635               | 600                                  | NR                             | 765               | 11                                   | NR                             | 895               | 0                                    | NR                             |
| 380               | 0                                    | NR                             | 510               | 335                                  | NR                             | 640               | 535                                  | NR                             | 770               | 9                                    | NR                             | 900               | 0                                    | NR                             |
| 385               | 0                                    | NR                             | 515               | 375                                  | NR                             | 645               | 473                                  | NR                             | 775               | 8                                    | NR                             | 905               | 0                                    | NR                             |
| 390               | 1                                    | NR                             | 520               | 408                                  | NR                             | 650               | 415                                  | NR                             | 780               | 7                                    | NR                             | 910               | 0                                    | NR                             |
| 395               | 2                                    | NR                             | 525               | 434                                  | NR                             | 655               | 362                                  | NR                             | 785               | 6                                    | NR                             | 915               | 0                                    | NR                             |
| 400               | 4                                    | NR                             | 530               | 461                                  | NR                             | 660               | 313                                  | NR                             | 790               | 5                                    | NR                             | 920               | 0                                    | NR                             |
| 405               | 8                                    | NR                             | 535               | 486                                  | NR                             | 665               | 271                                  | NR                             | 795               | 4                                    | NR                             | 925               | 0                                    | NR                             |
| 410               | 16                                   | NR                             | 540               | 514                                  | NR                             | 670               | 231                                  | NR                             | 800               | 4                                    | NR                             | 930               | 0                                    | NR                             |
| 415               | 33                                   | NR                             | 545               | 549                                  | NR                             | 675               | 198                                  | NR                             | 805               | 3                                    | NR                             | 935               | 0                                    | NR                             |
| 420               | 69                                   | NR                             | 550               | 591                                  | NR                             | 680               | 169                                  | NR                             | 810               | 3                                    | NR                             | 940               | 0                                    | NR                             |
| 425               | 131                                  | NR                             | 555               | 640                                  | NR                             | 685               | 144                                  | NR                             | 815               | 2                                    | NR                             | 945               | 0                                    | NR                             |
| 430               | 227                                  | NR                             | 560               | 695                                  | NR                             | 690               | 123                                  | NR                             | 820               | 2                                    | NR                             | 950               | 0                                    | NR                             |
| 435               | 369                                  | NR                             | 565               | 757                                  | NR                             | 695               | 104                                  | NR                             | 825               | 2                                    | NR                             | 955               | 0                                    | NR                             |
| 440               | 517                                  | NR                             | 570               | 822                                  | NR                             | 700               | 88                                   | NR                             | 830               | 2                                    | NR                             | 960               | 0                                    | NR                             |
| 445               | 498                                  | NR                             | 575               | 882                                  | NR                             | 705               | 75                                   | NR                             | 835               | 1                                    | NR                             | 965               | 0                                    | NR                             |
| 450               | 315                                  | NR                             | 580               | 935                                  | NR                             | 710               | 63                                   | NR                             | 840               | 1                                    | NR                             | 970               | 0                                    | NR                             |
| 455               | 204                                  | NR                             | 585               | 972                                  | NR                             | 715               | 54                                   | NR                             | 845               | 1                                    | NR                             | 975               | 0                                    | NR                             |
| 460               | 145                                  | NR                             | 590               | 996                                  | NR                             | 720               | 46                                   | NR                             | 850               | 1                                    | NR                             | 980               | 0                                    | NR                             |
| 465               | 100                                  | NR                             | 595               | 1000                                 | NR                             | 725               | 39                                   | NR                             | 855               | 1                                    | NR                             | 985               | 0                                    | NR                             |
| 470               | 78                                   | NR                             | 600               | 989                                  | NR                             | 730               | 33                                   | NR                             | 860               | 1                                    | NR                             | 990               | 0                                    | NR                             |
| 475               | 76                                   | NR                             | 605               | 960                                  | NR                             | 735               | 28                                   | NR                             | 865               | 1                                    | NR                             | 995               | 0                                    | NR                             |
| 480               | 83                                   | NR                             | 610               | 918                                  | NR                             | 740               | 24                                   | NR                             | 870               | 1                                    | NR                             | 1000              | 0                                    | NR                             |
| 485               | 105                                  | NR                             | 615               | 864                                  | NR                             | 745               | 20                                   | NR                             | 875               | 1                                    | NR                             |                   |                                      |                                |

REPORT NUMBER: SP1-2407-184-4

### Scotopic Flux vs. Wavelength



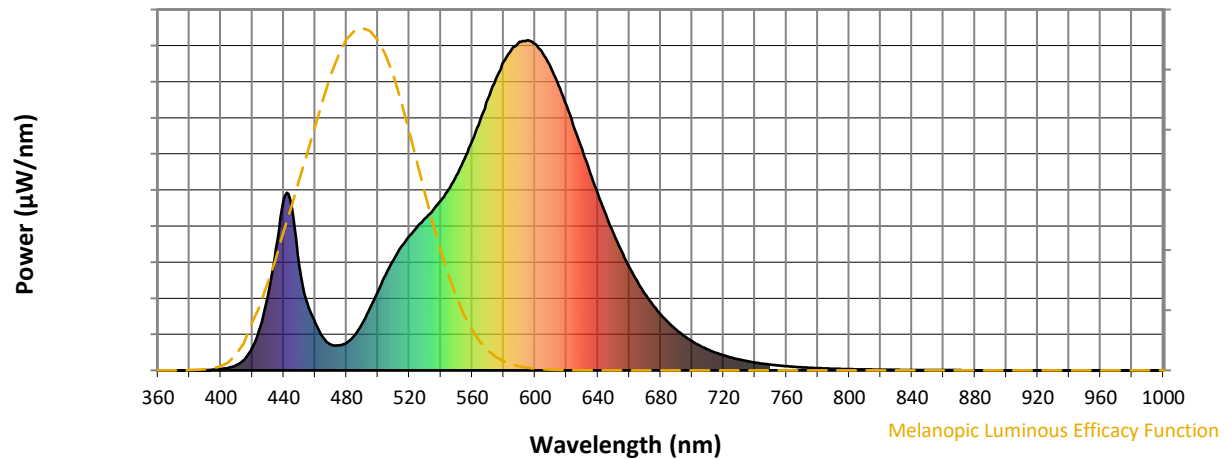
Scotopic Lumens: NR

S/P: 1.19

| $\lambda$<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               | 142                                  | NR                             | 620               | 803                                  | NR                             | 750               | 17                                   | NR                             | 880               | 0                                    | NR                             |
| 365               | 0                                    | NR                             | 495               | 189                                  | NR                             | 625               | 734                                  | NR                             | 755               | 15                                   | NR                             | 885               | 0                                    | NR                             |
| 370               | 0                                    | NR                             | 500               | 240                                  | NR                             | 630               | 670                                  | NR                             | 760               | 13                                   | NR                             | 890               | 0                                    | NR                             |
| 375               | 0                                    | NR                             | 505               | 290                                  | NR                             | 635               | 600                                  | NR                             | 765               | 11                                   | NR                             | 895               | 0                                    | NR                             |
| 380               | 0                                    | NR                             | 510               | 335                                  | NR                             | 640               | 535                                  | NR                             | 770               | 9                                    | NR                             | 900               | 0                                    | NR                             |
| 385               | 0                                    | NR                             | 515               | 375                                  | NR                             | 645               | 473                                  | NR                             | 775               | 8                                    | NR                             | 905               | 0                                    | NR                             |
| 390               | 1                                    | NR                             | 520               | 408                                  | NR                             | 650               | 415                                  | NR                             | 780               | 7                                    | NR                             | 910               | 0                                    | NR                             |
| 395               | 2                                    | NR                             | 525               | 434                                  | NR                             | 655               | 362                                  | NR                             | 785               | 6                                    | NR                             | 915               | 0                                    | NR                             |
| 400               | 4                                    | NR                             | 530               | 461                                  | NR                             | 660               | 313                                  | NR                             | 790               | 5                                    | NR                             | 920               | 0                                    | NR                             |
| 405               | 8                                    | NR                             | 535               | 486                                  | NR                             | 665               | 271                                  | NR                             | 795               | 4                                    | NR                             | 925               | 0                                    | NR                             |
| 410               | 16                                   | NR                             | 540               | 514                                  | NR                             | 670               | 231                                  | NR                             | 800               | 4                                    | NR                             | 930               | 0                                    | NR                             |
| 415               | 33                                   | NR                             | 545               | 549                                  | NR                             | 675               | 198                                  | NR                             | 805               | 3                                    | NR                             | 935               | 0                                    | NR                             |
| 420               | 69                                   | NR                             | 550               | 591                                  | NR                             | 680               | 169                                  | NR                             | 810               | 3                                    | NR                             | 940               | 0                                    | NR                             |
| 425               | 131                                  | NR                             | 555               | 640                                  | NR                             | 685               | 144                                  | NR                             | 815               | 2                                    | NR                             | 945               | 0                                    | NR                             |
| 430               | 227                                  | NR                             | 560               | 695                                  | NR                             | 690               | 123                                  | NR                             | 820               | 2                                    | NR                             | 950               | 0                                    | NR                             |
| 435               | 369                                  | NR                             | 565               | 757                                  | NR                             | 695               | 104                                  | NR                             | 825               | 2                                    | NR                             | 955               | 0                                    | NR                             |
| 440               | 517                                  | NR                             | 570               | 822                                  | NR                             | 700               | 88                                   | NR                             | 830               | 2                                    | NR                             | 960               | 0                                    | NR                             |
| 445               | 498                                  | NR                             | 575               | 882                                  | NR                             | 705               | 75                                   | NR                             | 835               | 1                                    | NR                             | 965               | 0                                    | NR                             |
| 450               | 315                                  | NR                             | 580               | 935                                  | NR                             | 710               | 63                                   | NR                             | 840               | 1                                    | NR                             | 970               | 0                                    | NR                             |
| 455               | 204                                  | NR                             | 585               | 972                                  | NR                             | 715               | 54                                   | NR                             | 845               | 1                                    | NR                             | 975               | 0                                    | NR                             |
| 460               | 145                                  | NR                             | 590               | 996                                  | NR                             | 720               | 46                                   | NR                             | 850               | 1                                    | NR                             | 980               | 0                                    | NR                             |
| 465               | 100                                  | NR                             | 595               | 1000                                 | NR                             | 725               | 39                                   | NR                             | 855               | 1                                    | NR                             | 985               | 0                                    | NR                             |
| 470               | 78                                   | NR                             | 600               | 989                                  | NR                             | 730               | 33                                   | NR                             | 860               | 1                                    | NR                             | 990               | 0                                    | NR                             |
| 475               | 76                                   | NR                             | 605               | 960                                  | NR                             | 735               | 28                                   | NR                             | 865               | 1                                    | NR                             | 995               | 0                                    | NR                             |
| 480               | 83                                   | NR                             | 610               | 918                                  | NR                             | 740               | 24                                   | NR                             | 870               | 1                                    | NR                             | 1000              | 0                                    | NR                             |
| 485               | 105                                  | NR                             | 615               | 864                                  | NR                             | 745               | 20                                   | NR                             | 875               | 1                                    | NR                             |                   |                                      |                                |

REPORT NUMBER: SP1-2407-184-4

### Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.13

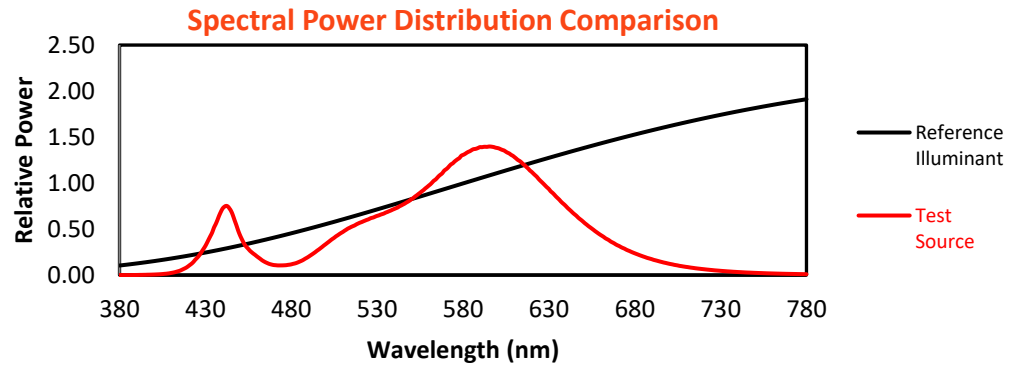
| $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<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               | 142                                  | NR                             | 620               | 803                                  | NR                             | 750               | 17                                   | NR                             | 880               | 0                                    | NR                             |
| 365               | 0                                    | NR                             | 495               | 189                                  | NR                             | 625               | 734                                  | NR                             | 755               | 15                                   | NR                             | 885               | 0                                    | NR                             |
| 370               | 0                                    | NR                             | 500               | 240                                  | NR                             | 630               | 670                                  | NR                             | 760               | 13                                   | NR                             | 890               | 0                                    | NR                             |
| 375               | 0                                    | NR                             | 505               | 290                                  | NR                             | 635               | 600                                  | NR                             | 765               | 11                                   | NR                             | 895               | 0                                    | NR                             |
| 380               | 0                                    | NR                             | 510               | 335                                  | NR                             | 640               | 535                                  | NR                             | 770               | 9                                    | NR                             | 900               | 0                                    | NR                             |
| 385               | 0                                    | NR                             | 515               | 375                                  | NR                             | 645               | 473                                  | NR                             | 775               | 8                                    | NR                             | 905               | 0                                    | NR                             |
| 390               | 1                                    | NR                             | 520               | 408                                  | NR                             | 650               | 415                                  | NR                             | 780               | 7                                    | NR                             | 910               | 0                                    | NR                             |
| 395               | 2                                    | NR                             | 525               | 434                                  | NR                             | 655               | 362                                  | NR                             | 785               | 6                                    | NR                             | 915               | 0                                    | NR                             |
| 400               | 4                                    | NR                             | 530               | 461                                  | NR                             | 660               | 313                                  | NR                             | 790               | 5                                    | NR                             | 920               | 0                                    | NR                             |
| 405               | 8                                    | NR                             | 535               | 486                                  | NR                             | 665               | 271                                  | NR                             | 795               | 4                                    | NR                             | 925               | 0                                    | NR                             |
| 410               | 16                                   | NR                             | 540               | 514                                  | NR                             | 670               | 231                                  | NR                             | 800               | 4                                    | NR                             | 930               | 0                                    | NR                             |
| 415               | 33                                   | NR                             | 545               | 549                                  | NR                             | 675               | 198                                  | NR                             | 805               | 3                                    | NR                             | 935               | 0                                    | NR                             |
| 420               | 69                                   | NR                             | 550               | 591                                  | NR                             | 680               | 169                                  | NR                             | 810               | 3                                    | NR                             | 940               | 0                                    | NR                             |
| 425               | 131                                  | NR                             | 555               | 640                                  | NR                             | 685               | 144                                  | NR                             | 815               | 2                                    | NR                             | 945               | 0                                    | NR                             |
| 430               | 227                                  | NR                             | 560               | 695                                  | NR                             | 690               | 123                                  | NR                             | 820               | 2                                    | NR                             | 950               | 0                                    | NR                             |
| 435               | 369                                  | NR                             | 565               | 757                                  | NR                             | 695               | 104                                  | NR                             | 825               | 2                                    | NR                             | 955               | 0                                    | NR                             |
| 440               | 517                                  | NR                             | 570               | 822                                  | NR                             | 700               | 88                                   | NR                             | 830               | 2                                    | NR                             | 960               | 0                                    | NR                             |
| 445               | 498                                  | NR                             | 575               | 882                                  | NR                             | 705               | 75                                   | NR                             | 835               | 1                                    | NR                             | 965               | 0                                    | NR                             |
| 450               | 315                                  | NR                             | 580               | 935                                  | NR                             | 710               | 63                                   | NR                             | 840               | 1                                    | NR                             | 970               | 0                                    | NR                             |
| 455               | 204                                  | NR                             | 585               | 972                                  | NR                             | 715               | 54                                   | NR                             | 845               | 1                                    | NR                             | 975               | 0                                    | NR                             |
| 460               | 145                                  | NR                             | 590               | 996                                  | NR                             | 720               | 46                                   | NR                             | 850               | 1                                    | NR                             | 980               | 0                                    | NR                             |
| 465               | 100                                  | NR                             | 595               | 1000                                 | NR                             | 725               | 39                                   | NR                             | 855               | 1                                    | NR                             | 985               | 0                                    | NR                             |
| 470               | 78                                   | NR                             | 600               | 989                                  | NR                             | 730               | 33                                   | NR                             | 860               | 1                                    | NR                             | 990               | 0                                    | NR                             |
| 475               | 76                                   | NR                             | 605               | 960                                  | NR                             | 735               | 28                                   | NR                             | 865               | 1                                    | NR                             | 995               | 0                                    | NR                             |
| 480               | 83                                   | NR                             | 610               | 918                                  | NR                             | 740               | 24                                   | NR                             | 870               | 1                                    | NR                             | 1000              | 0                                    | NR                             |
| 485               | 105                                  | NR                             | 615               | 864                                  | NR                             | 745               | 20                                   | NR                             | 875               | 1                                    | NR                             |                   |                                      |                                |

REPORT NUMBER: SP1-2407-184-4

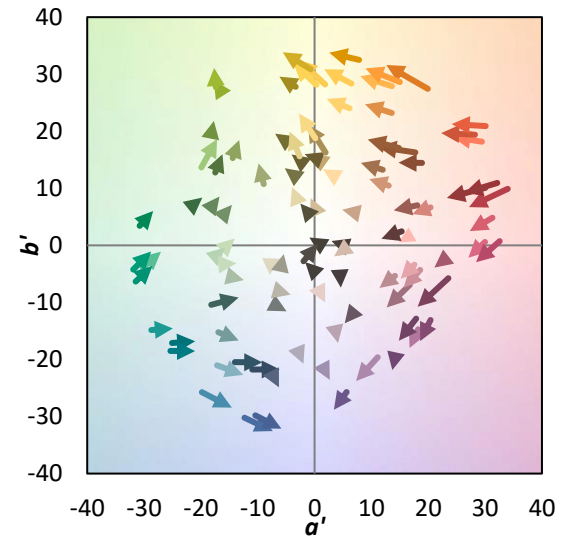
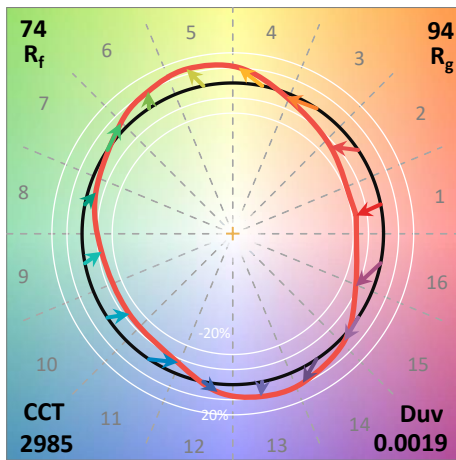
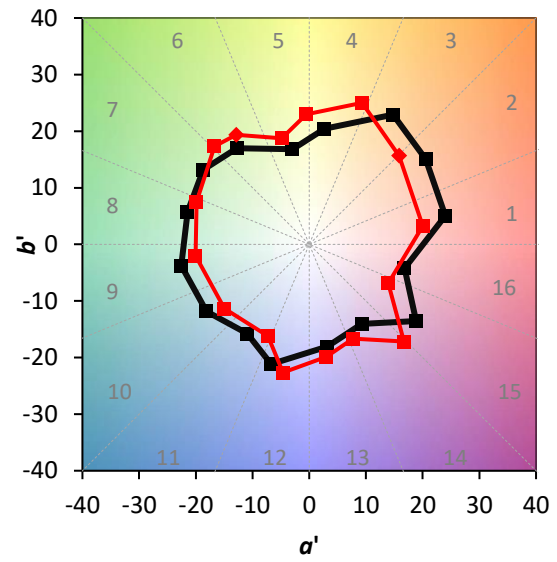
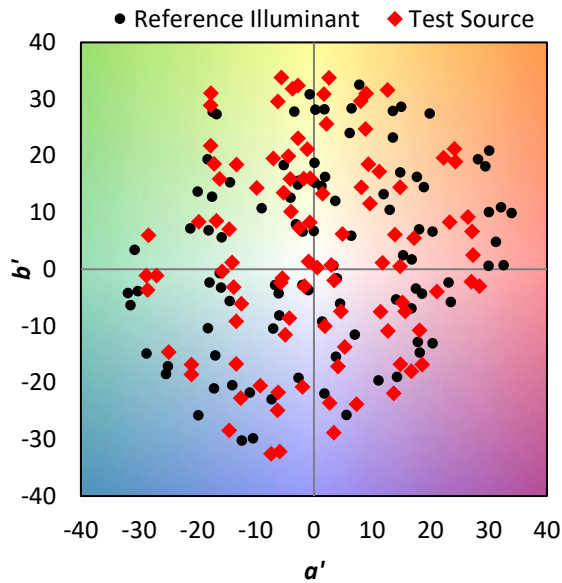
TM-30-18

### Summary

$R_f = 73.8$   
 $R_g = 94.4$   
 $\text{CIE } R_a = 70.8$   
 $R_g = -43.2$

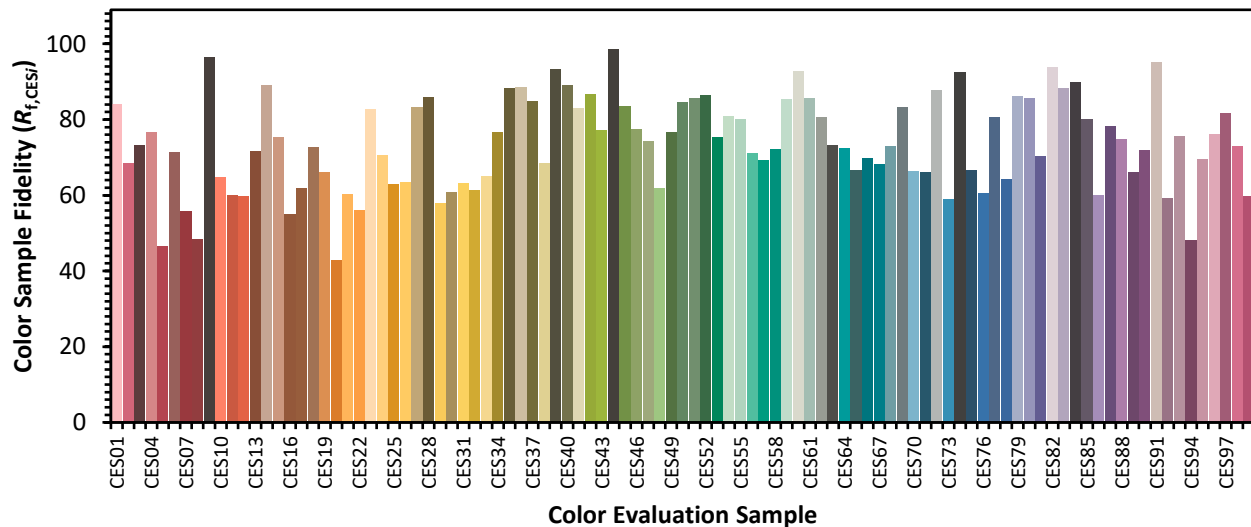


### Color Vector Graphics

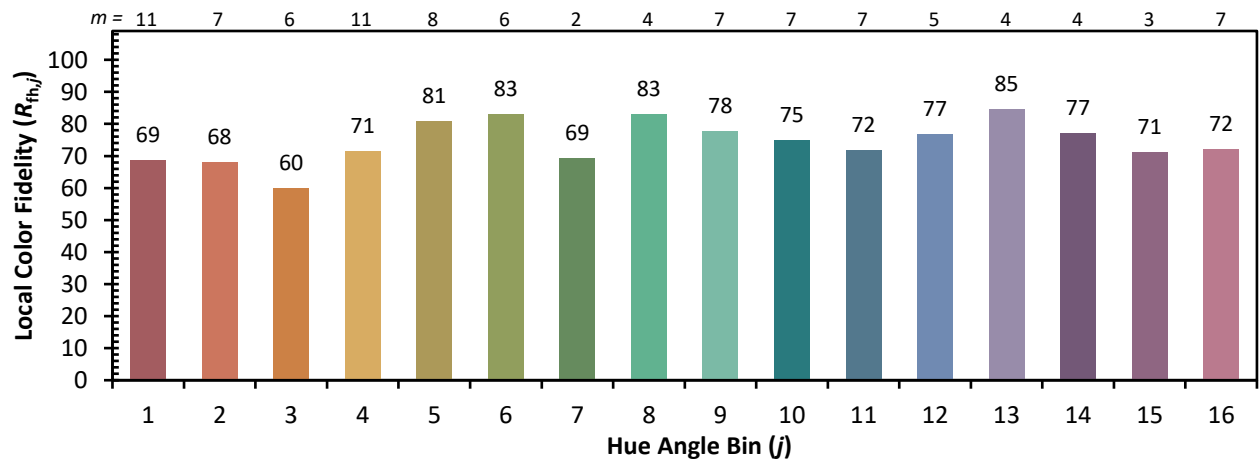
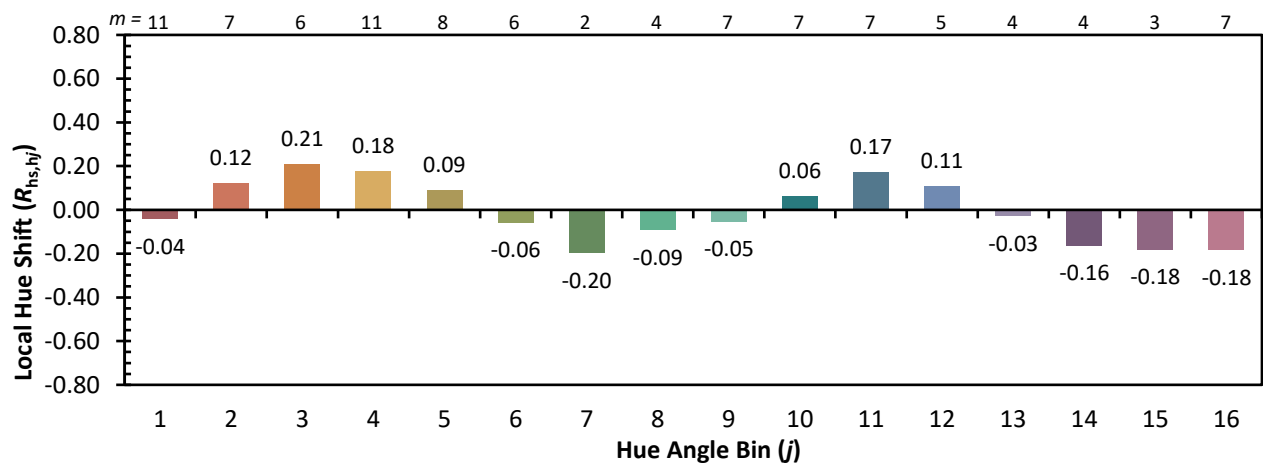
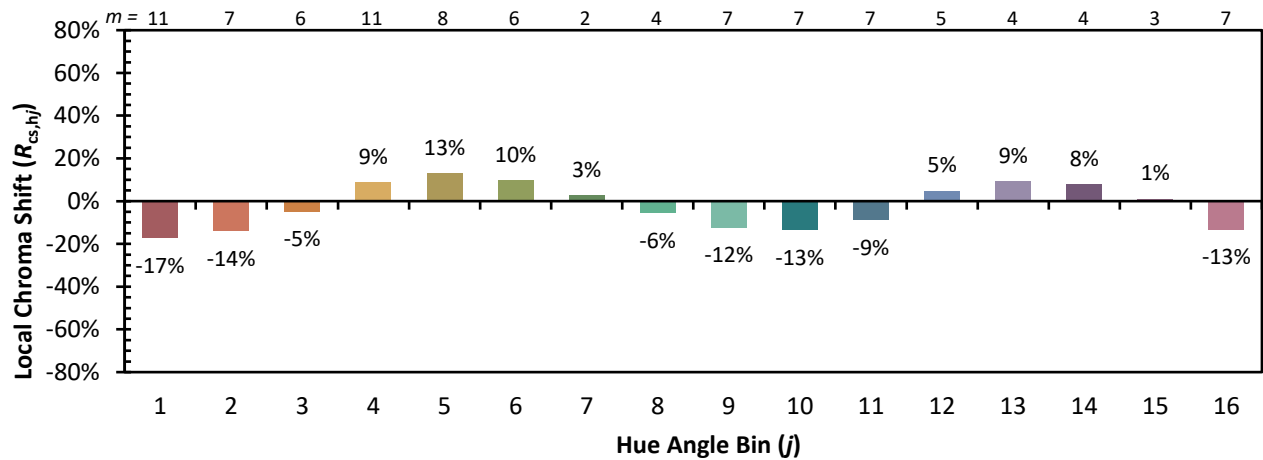


**Individual Sample Fidelity Index ( $R_{fi}$ )**

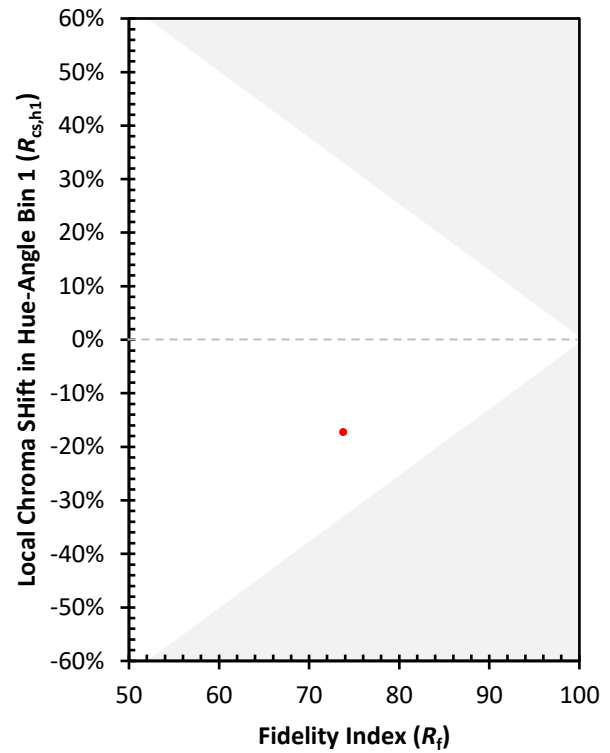
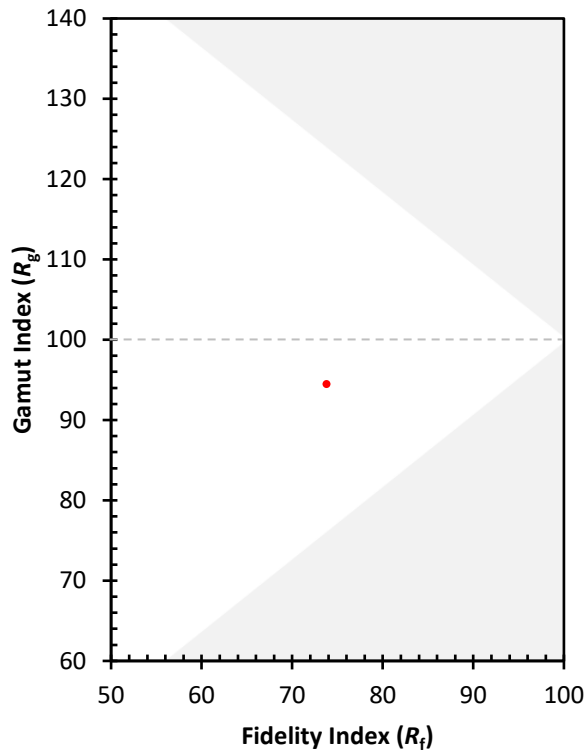
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 63 | CES51 = 86 | CES76 = 61 |
| CES02 = 62 | CES27 = 83 | CES52 = 86 | CES77 = 81 |
| CES03 = 31 | CES28 = 86 | CES53 = 75 | CES78 = 64 |
| CES04 = 71 | CES29 = 58 | CES54 = 81 | CES79 = 86 |
| CES05 = 49 | CES30 = 61 | CES55 = 80 | CES80 = 86 |
| CES06 = 51 | CES31 = 63 | CES56 = 71 | CES81 = 70 |
| CES07 = 41 | CES32 = 61 | CES57 = 69 | CES82 = 94 |
| CES08 = 40 | CES33 = 65 | CES58 = 72 | CES83 = 88 |
| CES09 = 29 | CES34 = 77 | CES59 = 85 | CES84 = 90 |
| CES10 = 76 | CES35 = 88 | CES60 = 93 | CES85 = 80 |
| CES11 = 59 | CES36 = 89 | CES61 = 86 | CES86 = 60 |
| CES12 = 65 | CES37 = 85 | CES62 = 81 | CES87 = 78 |
| CES13 = 43 | CES38 = 69 | CES63 = 73 | CES88 = 75 |
| CES14 = 74 | CES39 = 93 | CES64 = 72 | CES89 = 66 |
| CES15 = 71 | CES40 = 89 | CES65 = 67 | CES90 = 72 |
| CES16 = 47 | CES41 = 83 | CES66 = 70 | CES91 = 95 |
| CES17 = 50 | CES42 = 87 | CES67 = 68 | CES92 = 59 |
| CES18 = 56 | CES43 = 77 | CES68 = 73 | CES93 = 76 |
| CES19 = 73 | CES44 = 99 | CES69 = 83 | CES94 = 48 |
| CES20 = 66 | CES45 = 83 | CES70 = 66 | CES95 = 70 |
| CES21 = 87 | CES46 = 77 | CES71 = 66 | CES96 = 76 |
| CES22 = 79 | CES47 = 74 | CES72 = 88 | CES97 = 82 |
| CES23 = 92 | CES48 = 62 | CES73 = 59 | CES98 = 73 |
| CES24 = 91 | CES49 = 77 | CES74 = 93 | CES99 = 60 |
| CES25 = 73 | CES50 = 85 | CES75 = 67 |            |



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)