

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: P1049694

Luminaire Tested: **GALN-SA5B-760-U-LBC**

Issue Date: 07/10/2025



**Test Information**

Test Method: LM-79-08  
Report Number: P1049694  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/10/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5B-760-U-LBC  
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 5xLight Square PACKAGE  
70CRI 5700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (70) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20404.4 lumens  
Efficiency: N/A  
Efficacy: 114.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G3

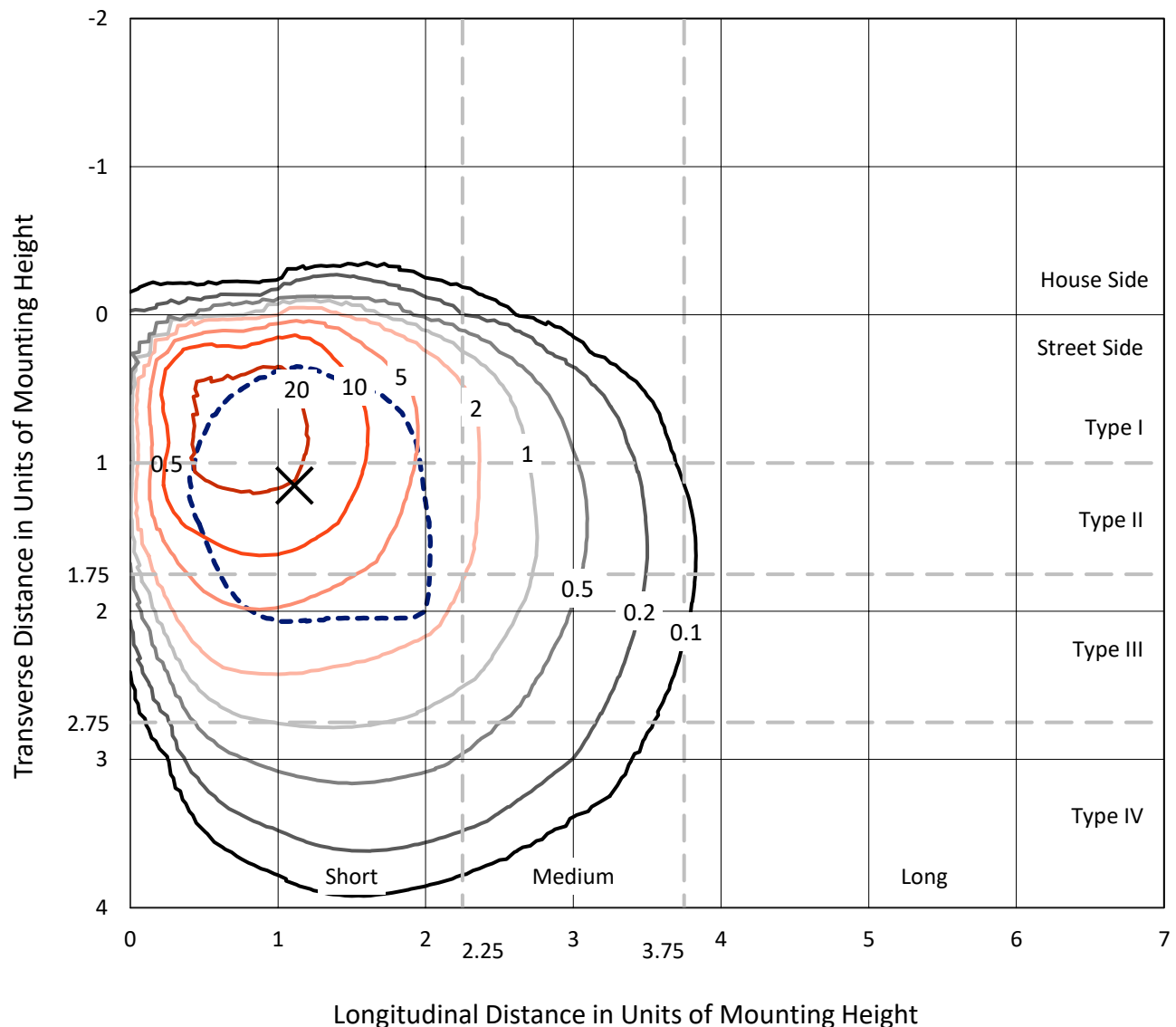
Input Watts (W): 178.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.97  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

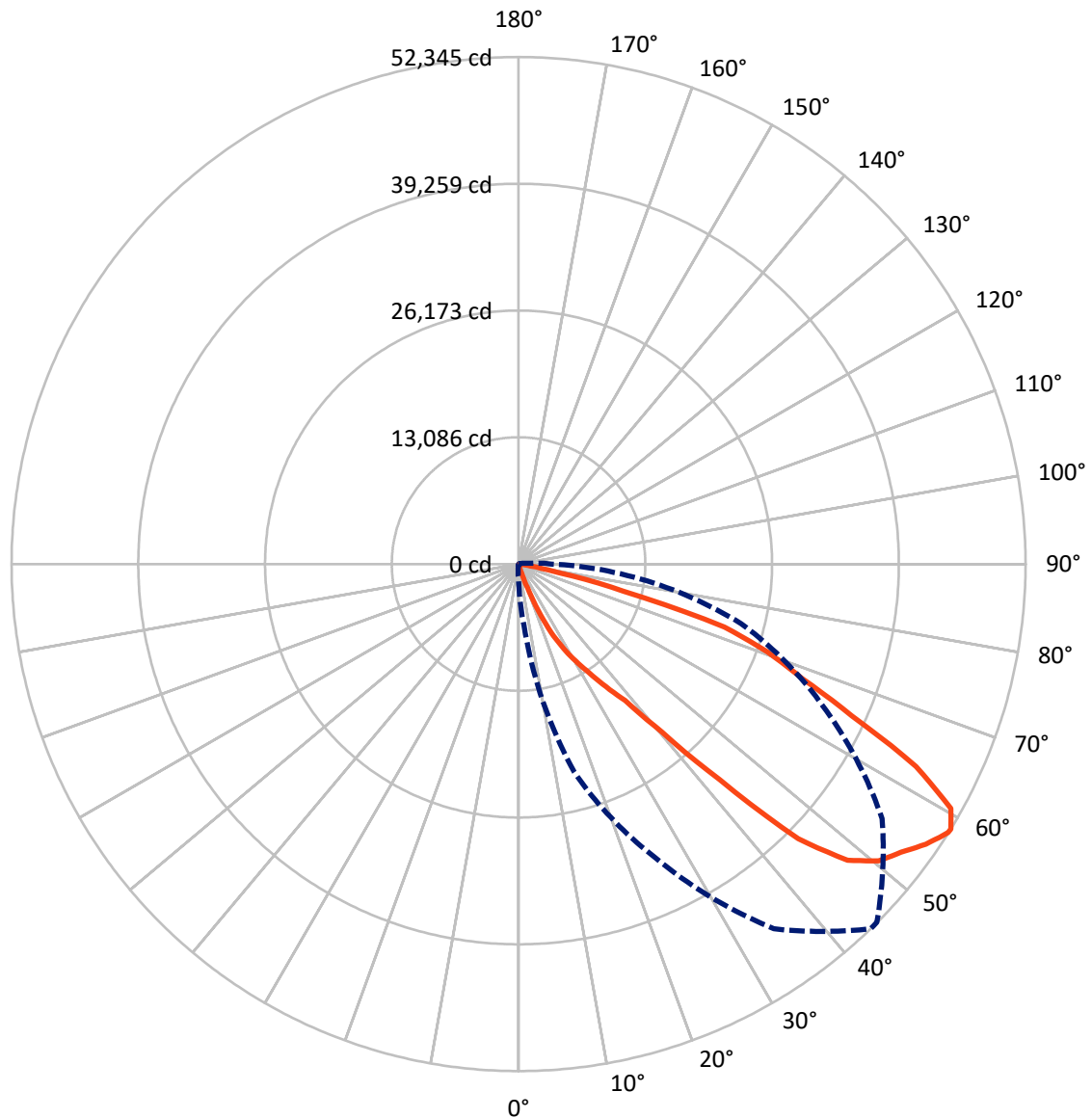


Based on 20 foot mounting height. Maximum calculated value = 35.5 fc  
 Type III - Short - N/A

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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    | 139.3    | 0.0    | 139.3   |
|                    | % Fixture | 0.7      | 0.0    | 0.7     |
| <b>Street Side</b> | Lumens    | 20265.0  | 0.0    | 20265.0 |
|                    | % Fixture | 99.3     | 0.0    | 99.3    |
| <b>Total</b>       | Lumens    | 20404.4  | 0.0    | 20404.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 8.0     | 0.0       |
| 10°-20°   | 44.7    | 0.2       |
| 20°-30°   | 483.4   | 2.4       |
| 30°-40°   | 1429.5  | 7.0       |
| 40°-50°   | 4260.8  | 20.9      |
| 50°-60°   | 6760.8  | 33.1      |
| 60°-70°   | 5639.3  | 27.6      |
| 70°-80°   | 1739.3  | 8.5       |
| 80°-90°   | 38.6    | 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°    | 20404.4 | 100.0     |
| 0°-180°   | 20404.4 | 100.0     |

**Coefficient of Utilization**



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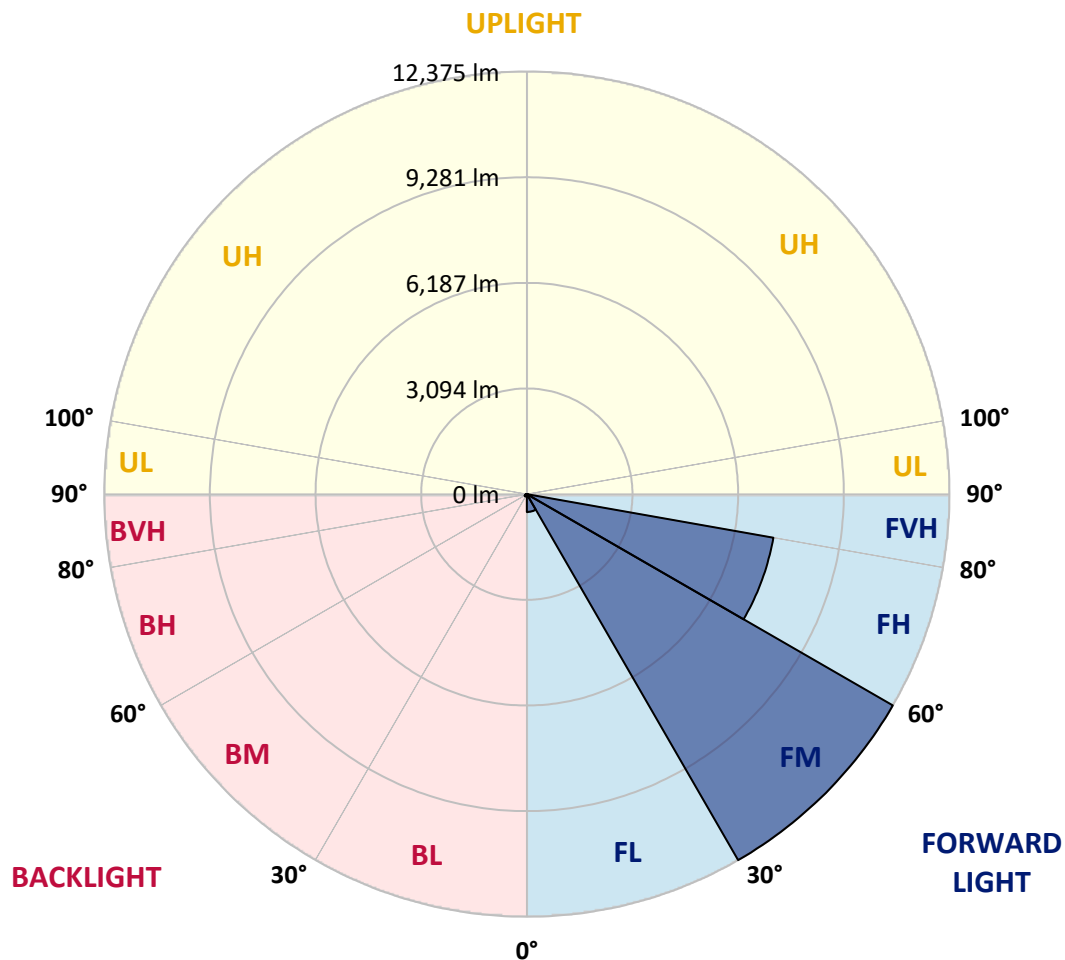
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 522.5   | 2.6       |                         |      |         |
| FM   | (30°-60°)   | 12374.8 | 60.6      |                         |      |         |
| FH   | (60°-80°)   | 7331.0  | 35.9      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 36.8    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 13.6    | 0.1       | B0/110                  |      |         |
| BM   | (30°-60°)   | 76.3    | 0.4       | B0/220                  |      |         |
| BH   | (60°-80°)   | 47.6    | 0.2       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 1.9     | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

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

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°     | 25°     | 35°     | 44°     | 45°     | 55°     | 65°     | 75°     |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 89.4   | 89.4   | 89.4    | 89.4    | 89.4    | 89.4    | 89.4    | 89.4    | 89.4    | 89.4    |
| 2.5°  | 115.6  | 115.6  | 111.0   | 104.8   | 98.6    | 92.5    | 90.9    | 87.9    | 86.3    | 84.8    |
| 5°    | 120.2  | 120.2  | 118.7   | 114.1   | 107.9   | 103.3   | 103.3   | 98.6    | 95.6    | 92.5    |
| 7.5°  | 123.3  | 124.9  | 127.9   | 126.4   | 123.3   | 118.7   | 118.7   | 115.6   | 111.0   | 103.3   |
| 10°   | 127.9  | 132.6  | 138.7   | 141.8   | 143.3   | 143.3   | 141.8   | 140.3   | 132.6   | 121.8   |
| 12.5° | 132.6  | 141.8  | 157.2   | 172.6   | 181.9   | 194.2   | 192.7   | 189.6   | 169.6   | 146.4   |
| 15°   | 141.8  | 155.7  | 188.0   | 232.7   | 302.1   | 345.3   | 362.2   | 346.8   | 280.5   | 197.3   |
| 17.5° | 152.6  | 175.7  | 272.8   | 487.1   | 798.4   | 946.4   | 1035.8  | 963.4   | 638.1   | 374.6   |
| 20°   | 163.4  | 214.3  | 507.1   | 1262.4  | 2071.6  | 2555.6  | 2689.7  | 2480.1  | 1592.2  | 713.7   |
| 22.5° | 181.9  | 300.6  | 1028.1  | 2609.5  | 4463.8  | 5189.8  | 5327.0  | 4656.5  | 3007.2  | 1408.8  |
| 25°   | 220.4  | 436.2  | 1772.6  | 4252.7  | 6661.8  | 7887.2  | 7830.2  | 6951.6  | 4878.5  | 2250.4  |
| 27.5° | 275.9  | 635.0  | 2680.5  | 6042.2  | 8767.3  | 9847.9  | 9977.3  | 8890.7  | 6503.1  | 3309.3  |
| 30°   | 356.1  | 880.1  | 3654.6  | 7475.7  | 10455.2 | 11623.5 | 11645.1 | 10521.4 | 7956.6  | 4238.8  |
| 32.5° | 433.1  | 1111.3 | 4507.0  | 8861.4  | 12118.3 | 13399.2 | 13494.7 | 12112.1 | 9041.7  | 5206.8  |
| 35°   | 491.7  | 1262.4 | 5370.2  | 10079.1 | 13795.3 | 15560.2 | 15554.0 | 13912.5 | 10327.2 | 6071.5  |
| 37.5° | 496.3  | 1413.4 | 6151.6  | 11324.5 | 15919.3 | 17895.4 | 18091.1 | 16281.6 | 11880.9 | 7141.2  |
| 40°   | 485.5  | 1583.0 | 7141.2  | 13266.6 | 19746.6 | 22778.5 | 22951.1 | 20669.9 | 14997.6 | 8972.3  |
| 42.5° | 497.9  | 1877.4 | 8747.3  | 16853.4 | 26101.7 | 30456.0 | 30789.0 | 28390.6 | 20726.9 | 12708.6 |
| 45°   | 562.6  | 2430.7 | 12112.1 | 22854.0 | 35160.3 | 40468.8 | 40357.8 | 36903.6 | 27393.3 | 18396.3 |
| 47.5° | 776.9  | 3785.6 | 17100.0 | 28694.3 | 40949.7 | 45677.1 | 45772.7 | 41550.9 | 31283.8 | 22769.2 |
| 50°   | 1194.6 | 5792.5 | 21291.0 | 31781.6 | 43439.1 | 48181.9 | 48092.5 | 43214.0 | 32761.9 | 24922.5 |
| 52.5° | 1553.7 | 7244.5 | 23393.5 | 32865.2 | 43758.1 | 49419.6 | 49413.4 | 43651.8 | 32991.6 | 25107.5 |
| 55°   | 1643.1 | 7353.9 | 23410.4 | 32923.8 | 44473.3 | 51039.6 | 51243.0 | 44729.2 | 33289.1 | 24299.8 |
| 57.5° | 1607.7 | 6510.8 | 22433.2 | 33262.9 | 45746.5 | 52292.7 | 52303.5 | 45772.7 | 34044.4 | 23805.0 |
| 58°   | 1576.8 | 6378.2 | 22235.9 | 33455.6 | 45965.4 | 52345.1 | 52318.9 | 45820.5 | 34659.4 | 23786.5 |
| 60°   | 1404.2 | 5538.2 | 21466.7 | 33947.3 | 45640.1 | 51269.2 | 51024.2 | 44777.0 | 34568.4 | 23596.9 |
| 62.5° | 1103.6 | 4320.5 | 20709.9 | 33378.5 | 42153.5 | 46060.9 | 46162.7 | 39642.6 | 31513.4 | 22491.8 |
| 65°   | 878.6  | 3219.9 | 19131.6 | 29278.4 | 34711.8 | 37825.4 | 38204.5 | 32236.3 | 26303.6 | 19045.2 |
| 67.5° | 699.8  | 2327.5 | 16048.8 | 23310.2 | 27467.3 | 31568.9 | 31844.8 | 27065.0 | 20378.5 | 14592.2 |
| 70°   | 568.8  | 1573.7 | 11077.9 | 17047.6 | 22655.1 | 27266.9 | 27283.9 | 22484.0 | 15210.3 | 9561.2  |
| 72.5° | 504.0  | 1089.8 | 6430.6  | 12432.7 | 18370.1 | 22218.9 | 21770.4 | 18245.3 | 11689.8 | 5663.0  |
| 75°   | 436.2  | 722.9  | 3153.7  | 7600.5  | 11138.0 | 11213.5 | 11384.6 | 8463.7  | 5843.4  | 2692.8  |
| 77.5° | 359.1  | 513.3  | 1242.3  | 2076.2  | 3340.2  | 4275.8  | 4434.5  | 3360.2  | 1943.7  | 662.8   |
| 80°   | 246.6  | 243.5  | 334.5   | 636.6   | 955.7   | 1197.6  | 1117.5  | 864.7   | 508.7   | 254.3   |
| 82.5° | 106.4  | 115.6  | 151.1   | 181.9   | 148.0   | 143.3   | 137.2   | 87.9    | 67.8    | 52.4    |
| 85°   | 33.9   | 30.8   | 32.4    | 32.4    | 26.2    | 20.0    | 20.0    | 9.2     | 0.0     | 0.0     |
| 87.5° | 17.0   | 13.9   | 13.9    | 12.3    | 7.7     | 3.1     | 1.5     | 0.0     | 0.0     | 0.0     |
| 90°   | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

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**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°    | 95°   | 105°  | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|--------|-------|-------|------|------|------|------|------|------|------|
| 89.4    | 0°    | 89.4   | 89.4  | 89.4  | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 |
| 83.2    | 2.5°  | 81.7   | 81.7  | 78.6  | 75.5 | 74.0 | 70.9 | 69.4 | 67.8 | 66.3 | 64.7 |
| 89.4    | 5°    | 86.3   | 84.8  | 80.2  | 75.5 | 70.9 | 66.3 | 63.2 | 60.1 | 57.0 | 55.5 |
| 98.6    | 7.5°  | 94.0   | 90.9  | 81.7  | 74.0 | 67.8 | 61.7 | 58.6 | 53.9 | 50.9 | 46.2 |
| 109.4   | 10°   | 103.3  | 97.1  | 84.8  | 75.5 | 66.3 | 58.6 | 53.9 | 49.3 | 44.7 | 38.5 |
| 124.9   | 12.5° | 115.6  | 104.8 | 89.4  | 74.0 | 63.2 | 53.9 | 49.3 | 43.2 | 38.5 | 33.9 |
| 144.9   | 15°   | 126.4  | 112.5 | 90.9  | 74.0 | 60.1 | 49.3 | 43.2 | 37.0 | 32.4 | 26.2 |
| 181.9   | 17.5° | 141.8  | 118.7 | 89.4  | 69.4 | 55.5 | 43.2 | 37.0 | 32.4 | 24.7 | 15.4 |
| 269.7   | 20°   | 168.0  | 123.3 | 86.3  | 64.7 | 47.8 | 35.5 | 27.7 | 21.6 | 10.8 | 3.1  |
| 405.4   | 22.5° | 209.6  | 135.6 | 83.2  | 58.6 | 41.6 | 27.7 | 18.5 | 7.7  | 0.0  | 0.0  |
| 616.6   | 25°   | 289.8  | 157.2 | 83.2  | 55.5 | 37.0 | 20.0 | 6.2  | 0.0  | 0.0  | 0.0  |
| 875.5   | 27.5° | 385.3  | 186.5 | 83.2  | 47.8 | 29.3 | 10.8 | 0.0  | 0.0  | 0.0  | 0.0  |
| 1193.0  | 30°   | 482.5  | 218.9 | 83.2  | 41.6 | 23.1 | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1468.9  | 32.5° | 574.9  | 246.6 | 84.8  | 35.5 | 15.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1851.2  | 35°   | 669.0  | 251.2 | 83.2  | 30.8 | 9.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2319.8  | 37.5° | 789.2  | 242.0 | 78.6  | 27.7 | 4.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 3051.9  | 40°   | 971.1  | 246.6 | 74.0  | 26.2 | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 4357.5  | 42.5° | 1307.1 | 266.7 | 67.8  | 26.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 6940.8  | 45°   | 2259.7 | 357.6 | 61.7  | 27.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 10419.7 | 47.5° | 3737.8 | 642.8 | 60.1  | 27.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 12551.4 | 50°   | 4770.6 | 809.2 | 63.2  | 29.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 12818.1 | 52.5° | 4762.9 | 901.7 | 66.3  | 30.8 | 6.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 11814.6 | 55°   | 4234.2 | 918.7 | 70.9  | 33.9 | 20.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 10153.0 | 57.5° | 3539.0 | 838.5 | 81.7  | 41.6 | 37.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 9892.6  | 58°   | 3415.7 | 801.5 | 84.8  | 43.2 | 40.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 8580.8  | 60°   | 2799.1 | 653.5 | 107.9 | 53.9 | 53.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 7034.8  | 62.5° | 1932.9 | 570.3 | 123.3 | 69.4 | 55.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5186.7  | 65°   | 1367.2 | 514.8 | 134.1 | 74.0 | 44.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 3685.4  | 67.5° | 1021.9 | 474.7 | 148.0 | 75.5 | 23.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2312.1  | 70°   | 783.0  | 445.5 | 181.9 | 80.2 | 6.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1378.0  | 72.5° | 638.1  | 411.5 | 220.4 | 83.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 826.2   | 75°   | 528.7  | 371.5 | 212.7 | 90.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 440.8   | 77.5° | 351.4  | 288.2 | 194.2 | 90.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.2   | 80°   | 123.3  | 114.1 | 151.1 | 80.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 32.4    | 82.5° | 18.5   | 15.4  | 21.6  | 27.7 | 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  |





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**CANDELA DISTRIBUTION (continued):**

| 180° |       | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270°  |
|------|-------|------|------|------|------|------|------|------|------|------|-------|
| 89.4 | 0°    | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4  |
| 63.2 | 2.5°  | 63.2 | 63.2 | 61.7 | 63.2 | 63.2 | 66.3 | 74.0 | 84.8 | 97.1 | 101.7 |
| 53.9 | 5°    | 52.4 | 50.9 | 49.3 | 49.3 | 49.3 | 53.9 | 60.1 | 72.4 | 86.3 | 92.5  |
| 44.7 | 7.5°  | 43.2 | 41.6 | 40.1 | 38.5 | 38.5 | 41.6 | 49.3 | 63.2 | 77.1 | 83.2  |
| 37.0 | 10°   | 35.5 | 32.4 | 30.8 | 29.3 | 29.3 | 32.4 | 40.1 | 53.9 | 69.4 | 75.5  |
| 30.8 | 12.5° | 29.3 | 24.7 | 21.6 | 20.0 | 18.5 | 23.1 | 30.8 | 43.2 | 60.1 | 67.8  |
| 23.1 | 15°   | 20.0 | 15.4 | 10.8 | 9.2  | 7.7  | 12.3 | 20.0 | 33.9 | 50.9 | 60.1  |
| 12.3 | 17.5° | 10.8 | 4.6  | 1.5  | 0.0  | 0.0  | 3.1  | 9.2  | 24.7 | 41.6 | 49.3  |
| 0.0  | 20°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 12.3 | 30.8 | 38.5  |
| 0.0  | 22.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.5  | 18.5 | 26.2  |
| 0.0  | 25°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.7  | 13.9  |
| 0.0  | 27.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.1   |
| 0.0  | 30°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |
| 0.0  | 32.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |
| 0.0  | 35°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |
| 0.0  | 37.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |
| 0.0  | 40°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |
| 0.0  | 42.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |
| 0.0  | 45°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |
| 0.0  | 47.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |
| 0.0  | 50°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |
| 0.0  | 52.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |
| 0.0  | 55°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |
| 0.0  | 57.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |
| 0.0  | 58°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |
| 0.0  | 60°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |
| 0.0  | 62.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |
| 0.0  | 65°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |
| 0.0  | 67.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |
| 0.0  | 70°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |
| 0.0  | 72.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |
| 0.0  | 75°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |
| 0.0  | 77.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |
| 0.0  | 80°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |
| 0.0  | 82.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |
| 0.0  | 85°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.6   |
| 0.0  | 87.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.2  | 12.3  |
| 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: P1049694

CATALOG NUMBER: GALN-SA5B-760-U-LBC

**CANDELA DISTRIBUTION (continued):**

| 275°  |       | 285°  | 295°  | 305°  | 315°  | 316°  | 325°  | 335°  | 345°  | 355°  | 360°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 89.4  | 0°    | 89.4  | 89.4  | 89.4  | 89.4  | 89.4  | 89.4  | 89.4  | 89.4  | 89.4  | 89.4   |
| 106.4 | 2.5°  | 109.4 | 107.9 | 104.8 | 101.7 | 101.7 | 101.7 | 106.4 | 111.0 | 115.6 | 115.6  |
| 95.6  | 5°    | 101.7 | 101.7 | 100.2 | 97.1  | 97.1  | 98.6  | 104.8 | 112.5 | 118.7 | 120.2  |
| 87.9  | 7.5°  | 94.0  | 97.1  | 94.0  | 92.5  | 94.0  | 95.6  | 101.7 | 111.0 | 120.2 | 123.3  |
| 81.7  | 10°   | 89.4  | 90.9  | 90.9  | 89.4  | 89.4  | 92.5  | 98.6  | 111.0 | 123.3 | 127.9  |
| 74.0  | 12.5° | 83.2  | 86.3  | 84.8  | 84.8  | 84.8  | 87.9  | 95.6  | 109.4 | 126.4 | 132.6  |
| 66.3  | 15°   | 77.1  | 81.7  | 81.7  | 80.2  | 80.2  | 81.7  | 92.5  | 107.9 | 131.0 | 141.8  |
| 57.0  | 17.5° | 70.9  | 75.5  | 77.1  | 74.0  | 74.0  | 77.1  | 87.9  | 107.9 | 134.1 | 152.6  |
| 46.2  | 20°   | 58.6  | 66.3  | 70.9  | 66.3  | 66.3  | 69.4  | 80.2  | 101.7 | 135.6 | 163.4  |
| 33.9  | 22.5° | 46.2  | 53.9  | 60.1  | 58.6  | 58.6  | 60.1  | 74.0  | 97.1  | 137.2 | 181.9  |
| 20.0  | 25°   | 33.9  | 41.6  | 46.2  | 49.3  | 49.3  | 53.9  | 67.8  | 94.0  | 143.3 | 220.4  |
| 9.2   | 27.5° | 20.0  | 29.3  | 35.5  | 38.5  | 40.1  | 46.2  | 63.2  | 90.9  | 154.1 | 275.9  |
| 0.0   | 30°   | 9.2   | 17.0  | 24.7  | 30.8  | 30.8  | 41.6  | 58.6  | 87.9  | 168.0 | 356.1  |
| 0.0   | 32.5° | 0.0   | 7.7   | 12.3  | 21.6  | 23.1  | 33.9  | 53.9  | 84.8  | 188.0 | 433.1  |
| 0.0   | 35°   | 0.0   | 0.0   | 6.2   | 17.0  | 17.0  | 27.7  | 49.3  | 81.7  | 218.9 | 491.7  |
| 0.0   | 37.5° | 0.0   | 0.0   | 0.0   | 12.3  | 13.9  | 24.7  | 47.8  | 80.2  | 225.0 | 496.3  |
| 0.0   | 40°   | 0.0   | 0.0   | 0.0   | 9.2   | 10.8  | 23.1  | 47.8  | 81.7  | 203.5 | 485.5  |
| 0.0   | 42.5° | 0.0   | 0.0   | 0.0   | 6.2   | 7.7   | 23.1  | 47.8  | 84.8  | 183.4 | 497.9  |
| 0.0   | 45°   | 0.0   | 0.0   | 0.0   | 4.6   | 6.2   | 24.7  | 46.2  | 83.2  | 172.6 | 562.6  |
| 0.0   | 47.5° | 0.0   | 0.0   | 0.0   | 6.2   | 9.2   | 24.7  | 44.7  | 81.7  | 174.2 | 776.9  |
| 0.0   | 50°   | 0.0   | 0.0   | 0.0   | 7.7   | 10.8  | 24.7  | 46.2  | 78.6  | 191.1 | 1194.6 |
| 0.0   | 52.5° | 0.0   | 0.0   | 0.0   | 6.2   | 9.2   | 27.7  | 50.9  | 77.1  | 208.1 | 1553.7 |
| 0.0   | 55°   | 0.0   | 0.0   | 0.0   | 1.5   | 4.6   | 35.5  | 55.5  | 77.1  | 234.3 | 1643.1 |
| 0.0   | 57.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 40.1  | 63.2  | 81.7  | 277.4 | 1607.7 |
| 0.0   | 58°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 40.1  | 64.7  | 81.7  | 280.5 | 1576.8 |
| 0.0   | 60°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 40.1  | 70.9  | 90.9  | 302.1 | 1404.2 |
| 0.0   | 62.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 33.9  | 84.8  | 114.1 | 314.4 | 1103.6 |
| 0.0   | 65°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 27.7  | 100.2 | 124.9 | 323.7 | 878.6  |
| 0.0   | 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 26.2  | 103.3 | 126.4 | 328.3 | 699.8  |
| 0.0   | 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 27.7  | 101.7 | 135.6 | 343.7 | 568.8  |
| 0.0   | 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 30.8  | 92.5  | 149.5 | 343.7 | 504.0  |
| 0.0   | 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 32.4  | 86.3  | 168.0 | 312.9 | 436.2  |
| 0.0   | 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 30.8  | 84.8  | 195.8 | 279.0 | 359.1  |
| 0.0   | 80°   | 3.1   | 4.6   | 4.6   | 3.1   | 3.1   | 26.2  | 83.2  | 198.8 | 237.4 | 246.6  |
| 1.5   | 82.5° | 9.2   | 12.3  | 10.8  | 7.7   | 7.7   | 23.1  | 74.0  | 166.5 | 123.3 | 106.4  |
| 9.2   | 85°   | 17.0  | 20.0  | 20.0  | 17.0  | 17.0  | 21.6  | 46.2  | 60.1  | 41.6  | 33.9   |
| 17.0  | 87.5° | 23.1  | 26.2  | 26.2  | 23.1  | 23.1  | 21.6  | 20.0  | 18.5  | 17.0  | 17.0   |
| 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: SP1-2407-184-7

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-757-U-5WQ

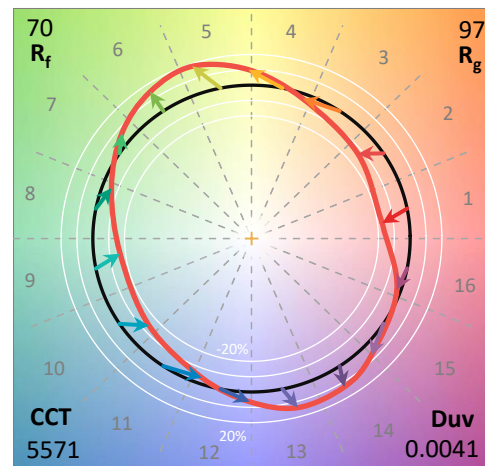
Data in this report applies to families of products including GSS-SB1A-757-U-5WQ

### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2407-184-7  
 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-757-U-5WQ**  
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI  
 5700K CCT 26 LEDS

### Spectral Parameters

|                           |          |           |      |      |       |
|---------------------------|----------|-----------|------|------|-------|
| CCT (K):                  | 5571     | CRI (Ra): | 69.9 |      |       |
| CIE u':                   | 0.2033   | R1:       | 68.8 | R9:  | -35.4 |
| CIE v':                   | 0.4806   | R2:       | 72.5 | R10: | 36.7  |
| Duv:                      | 0.0041   | R3:       | 76.8 | R11: | 73.9  |
| CIE x:                    | 0.3308   | R4:       | 72.0 | R12: | 47.8  |
| CIE y:                    | 0.3476   | R5:       | 70.9 | R13: | 68.0  |
| CIE z:                    | 0.3216   | R6:       | 65.6 | R14: | 87.0  |
| Peak Wavelength (nm):     | 442      | R7:       | 75.5 | R15: | 59.8  |
| Dominant Wavelength (nm): | 544      | R8:       | 56.8 |      |       |
| Purity:                   | 3.635698 |           |      |      |       |
| Rf:                       | 70.4     |           |      |      |       |
| Rg:                       | 97.1     |           |      |      |       |



### Test Conditions

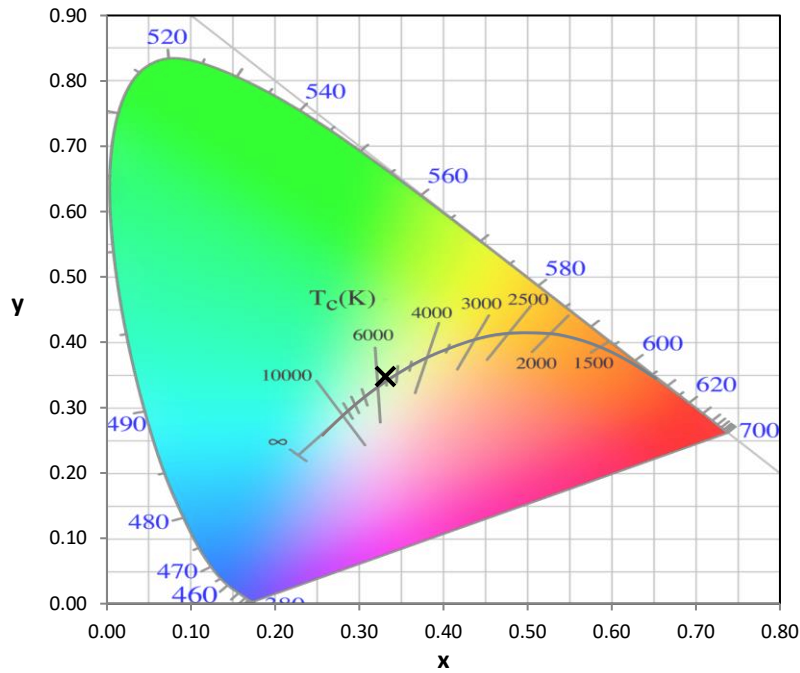
Stabilization Time: 20M  
 Operation Time: 1H 20M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-7

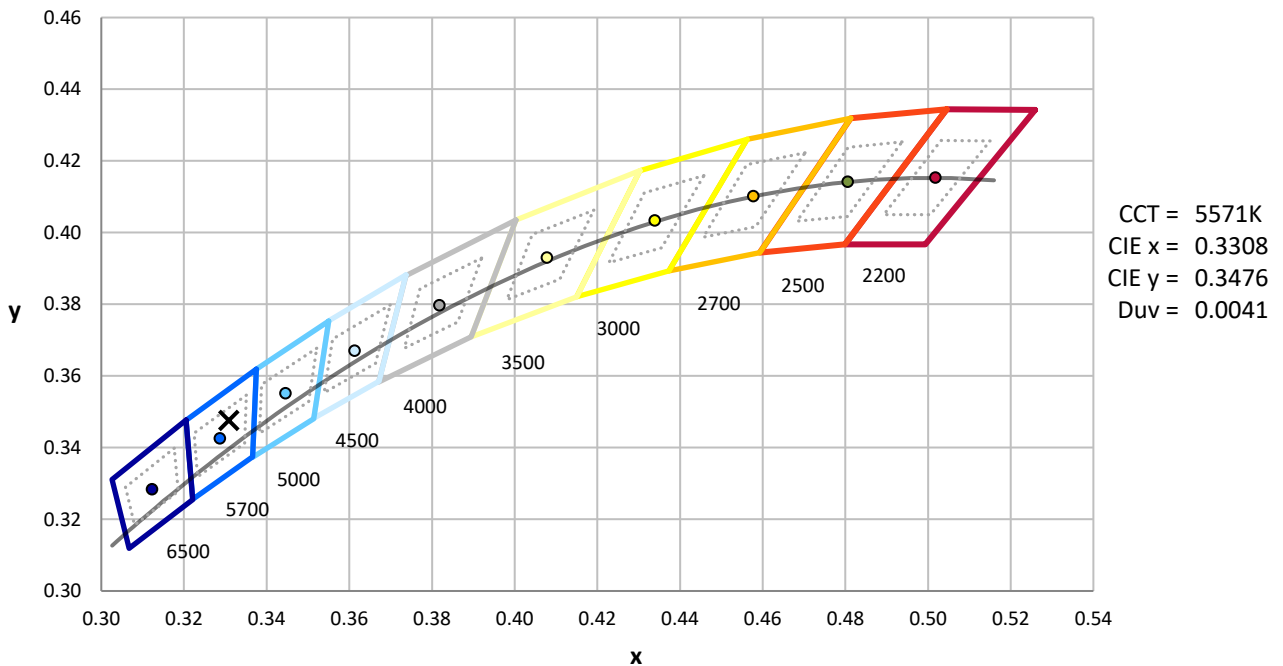
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| 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: SP1-2407-184-7

**CIE 1931 Chromaticity Diagram**



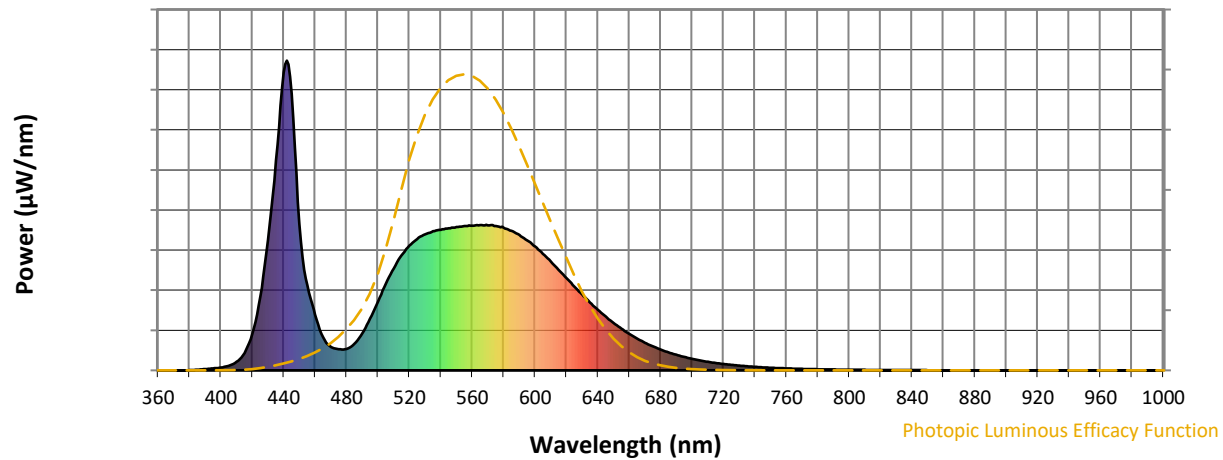
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 5700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-7

### Photopic Flux vs. Wavelength



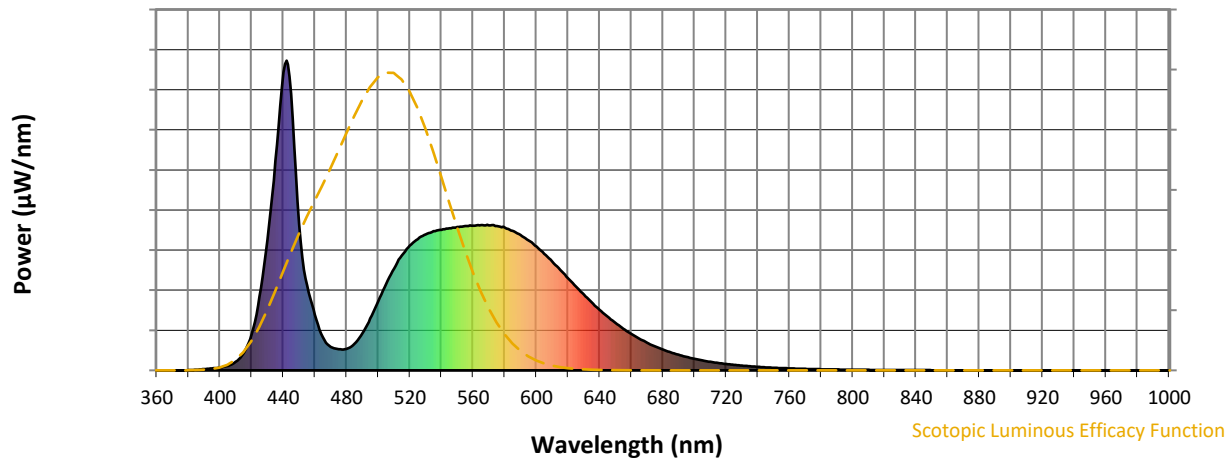
### Photopic Lumens: NR

| λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) |
|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|
| 360       | 0                           | NR               | 490       | 120                         | NR               | 620       | 298                         | NR               | 750       | 9                           | NR               | 880       | 0                           | NR               |
| 365       | 0                           | NR               | 495       | 167                         | NR               | 625       | 270                         | NR               | 755       | 7                           | NR               | 885       | 0                           | NR               |
| 370       | 0                           | NR               | 500       | 222                         | NR               | 630       | 245                         | NR               | 760       | 6                           | NR               | 890       | 0                           | NR               |
| 375       | 0                           | NR               | 505       | 279                         | NR               | 635       | 219                         | NR               | 765       | 6                           | NR               | 895       | 0                           | NR               |
| 380       | 1                           | NR               | 510       | 329                         | NR               | 640       | 196                         | NR               | 770       | 5                           | NR               | 900       | 0                           | NR               |
| 385       | 2                           | NR               | 515       | 371                         | NR               | 645       | 173                         | NR               | 775       | 4                           | NR               | 905       | 0                           | NR               |
| 390       | 4                           | NR               | 520       | 403                         | NR               | 650       | 153                         | NR               | 780       | 4                           | NR               | 910       | 0                           | NR               |
| 395       | 6                           | NR               | 525       | 424                         | NR               | 655       | 135                         | NR               | 785       | 3                           | NR               | 915       | 0                           | NR               |
| 400       | 9                           | NR               | 530       | 439                         | NR               | 660       | 117                         | NR               | 790       | 3                           | NR               | 920       | 0                           | NR               |
| 405       | 14                          | NR               | 535       | 449                         | NR               | 665       | 103                         | NR               | 795       | 2                           | NR               | 925       | 0                           | NR               |
| 410       | 28                          | NR               | 540       | 454                         | NR               | 670       | 89                          | NR               | 800       | 2                           | NR               | 930       | 0                           | NR               |
| 415       | 55                          | NR               | 545       | 459                         | NR               | 675       | 77                          | NR               | 805       | 2                           | NR               | 935       | 0                           | NR               |
| 420       | 118                         | NR               | 550       | 463                         | NR               | 680       | 67                          | NR               | 810       | 2                           | NR               | 940       | 0                           | NR               |
| 425       | 237                         | NR               | 555       | 466                         | NR               | 685       | 58                          | NR               | 815       | 1                           | NR               | 945       | 0                           | NR               |
| 430       | 420                         | NR               | 560       | 467                         | NR               | 690       | 50                          | NR               | 820       | 1                           | NR               | 950       | 0                           | NR               |
| 435       | 677                         | NR               | 565       | 469                         | NR               | 695       | 43                          | NR               | 825       | 1                           | NR               | 955       | 0                           | NR               |
| 440       | 962                         | NR               | 570       | 469                         | NR               | 700       | 37                          | NR               | 830       | 1                           | NR               | 960       | 0                           | NR               |
| 445       | 894                         | NR               | 575       | 466                         | NR               | 705       | 32                          | NR               | 835       | 1                           | NR               | 965       | 0                           | NR               |
| 450       | 472                         | NR               | 580       | 461                         | NR               | 710       | 28                          | NR               | 840       | 1                           | NR               | 970       | 0                           | NR               |
| 455       | 275                         | NR               | 585       | 450                         | NR               | 715       | 24                          | NR               | 845       | 1                           | NR               | 975       | 0                           | NR               |
| 460       | 180                         | NR               | 590       | 437                         | NR               | 720       | 21                          | NR               | 850       | 1                           | NR               | 980       | 0                           | NR               |
| 465       | 107                         | NR               | 595       | 420                         | NR               | 725       | 18                          | NR               | 855       | 0                           | NR               | 985       | 0                           | NR               |
| 470       | 76                          | NR               | 600       | 400                         | NR               | 730       | 15                          | NR               | 860       | 0                           | NR               | 990       | 0                           | NR               |
| 475       | 68                          | NR               | 605       | 376                         | NR               | 735       | 13                          | NR               | 865       | 0                           | NR               | 995       | 0                           | NR               |
| 480       | 69                          | NR               | 610       | 352                         | NR               | 740       | 11                          | NR               | 870       | 0                           | NR               | 1000      | 0                           | NR               |
| 485       | 86                          | NR               | 615       | 325                         | NR               | 745       | 10                          | NR               | 875       | 0                           | NR               |           |                             |                  |



REPORT NUMBER: SP1-2407-184-7

### Scotopic Flux vs. Wavelength



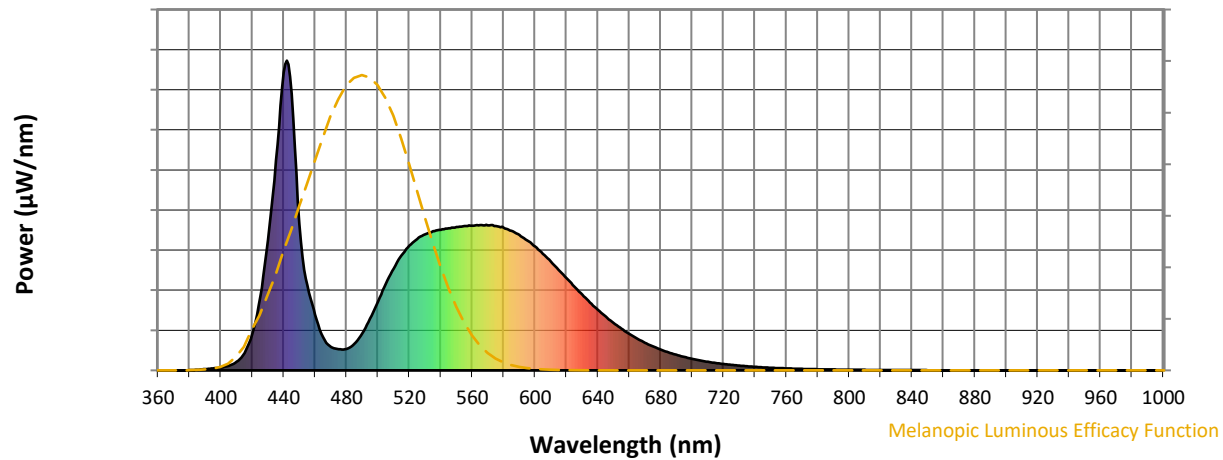
Scotopic Lumens: NR

S/P: 1.84

| λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(Φ/nm) |
|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|
| 360       | 0                           | NR               | 490       | 120                         | NR               | 620       | 298                         | NR               | 750       | 9                           | NR               | 880       | 0                           | NR               |
| 365       | 0                           | NR               | 495       | 167                         | NR               | 625       | 270                         | NR               | 755       | 7                           | NR               | 885       | 0                           | NR               |
| 370       | 0                           | NR               | 500       | 222                         | NR               | 630       | 245                         | NR               | 760       | 6                           | NR               | 890       | 0                           | NR               |
| 375       | 0                           | NR               | 505       | 279                         | NR               | 635       | 219                         | NR               | 765       | 6                           | NR               | 895       | 0                           | NR               |
| 380       | 1                           | NR               | 510       | 329                         | NR               | 640       | 196                         | NR               | 770       | 5                           | NR               | 900       | 0                           | NR               |
| 385       | 2                           | NR               | 515       | 371                         | NR               | 645       | 173                         | NR               | 775       | 4                           | NR               | 905       | 0                           | NR               |
| 390       | 4                           | NR               | 520       | 403                         | NR               | 650       | 153                         | NR               | 780       | 4                           | NR               | 910       | 0                           | NR               |
| 395       | 6                           | NR               | 525       | 424                         | NR               | 655       | 135                         | NR               | 785       | 3                           | NR               | 915       | 0                           | NR               |
| 400       | 9                           | NR               | 530       | 439                         | NR               | 660       | 117                         | NR               | 790       | 3                           | NR               | 920       | 0                           | NR               |
| 405       | 14                          | NR               | 535       | 449                         | NR               | 665       | 103                         | NR               | 795       | 2                           | NR               | 925       | 0                           | NR               |
| 410       | 28                          | NR               | 540       | 454                         | NR               | 670       | 89                          | NR               | 800       | 2                           | NR               | 930       | 0                           | NR               |
| 415       | 55                          | NR               | 545       | 459                         | NR               | 675       | 77                          | NR               | 805       | 2                           | NR               | 935       | 0                           | NR               |
| 420       | 118                         | NR               | 550       | 463                         | NR               | 680       | 67                          | NR               | 810       | 2                           | NR               | 940       | 0                           | NR               |
| 425       | 237                         | NR               | 555       | 466                         | NR               | 685       | 58                          | NR               | 815       | 1                           | NR               | 945       | 0                           | NR               |
| 430       | 420                         | NR               | 560       | 467                         | NR               | 690       | 50                          | NR               | 820       | 1                           | NR               | 950       | 0                           | NR               |
| 435       | 677                         | NR               | 565       | 469                         | NR               | 695       | 43                          | NR               | 825       | 1                           | NR               | 955       | 0                           | NR               |
| 440       | 962                         | NR               | 570       | 469                         | NR               | 700       | 37                          | NR               | 830       | 1                           | NR               | 960       | 0                           | NR               |
| 445       | 894                         | NR               | 575       | 466                         | NR               | 705       | 32                          | NR               | 835       | 1                           | NR               | 965       | 0                           | NR               |
| 450       | 472                         | NR               | 580       | 461                         | NR               | 710       | 28                          | NR               | 840       | 1                           | NR               | 970       | 0                           | NR               |
| 455       | 275                         | NR               | 585       | 450                         | NR               | 715       | 24                          | NR               | 845       | 1                           | NR               | 975       | 0                           | NR               |
| 460       | 180                         | NR               | 590       | 437                         | NR               | 720       | 21                          | NR               | 850       | 1                           | NR               | 980       | 0                           | NR               |
| 465       | 107                         | NR               | 595       | 420                         | NR               | 725       | 18                          | NR               | 855       | 0                           | NR               | 985       | 0                           | NR               |
| 470       | 76                          | NR               | 600       | 400                         | NR               | 730       | 15                          | NR               | 860       | 0                           | NR               | 990       | 0                           | NR               |
| 475       | 68                          | NR               | 605       | 376                         | NR               | 735       | 13                          | NR               | 865       | 0                           | NR               | 995       | 0                           | NR               |
| 480       | 69                          | NR               | 610       | 352                         | NR               | 740       | 11                          | NR               | 870       | 0                           | NR               | 1000      | 0                           | NR               |
| 485       | 86                          | NR               | 615       | 325                         | NR               | 745       | 10                          | NR               | 875       | 0                           | NR               |           |                             |                  |

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### Melanopic Flux vs. Wavelength


**Melanopic Lumens: NR**
**M/P: 3.71**

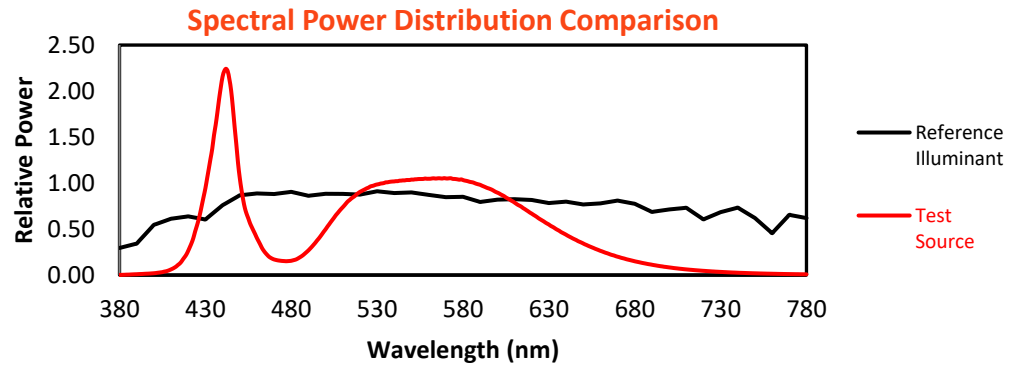
| $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<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               | 120                                  | NR                             | 620               | 298                                  | NR                             | 750               | 9                                    | NR                             | 880               | 0                                    | NR                             |
| 365               | 0                                    | NR                             | 495               | 167                                  | NR                             | 625               | 270                                  | NR                             | 755               | 7                                    | NR                             | 885               | 0                                    | NR                             |
| 370               | 0                                    | NR                             | 500               | 222                                  | NR                             | 630               | 245                                  | NR                             | 760               | 6                                    | NR                             | 890               | 0                                    | NR                             |
| 375               | 0                                    | NR                             | 505               | 279                                  | NR                             | 635               | 219                                  | NR                             | 765               | 6                                    | NR                             | 895               | 0                                    | NR                             |
| 380               | 1                                    | NR                             | 510               | 329                                  | NR                             | 640               | 196                                  | NR                             | 770               | 5                                    | NR                             | 900               | 0                                    | NR                             |
| 385               | 2                                    | NR                             | 515               | 371                                  | NR                             | 645               | 173                                  | NR                             | 775               | 4                                    | NR                             | 905               | 0                                    | NR                             |
| 390               | 4                                    | NR                             | 520               | 403                                  | NR                             | 650               | 153                                  | NR                             | 780               | 4                                    | NR                             | 910               | 0                                    | NR                             |
| 395               | 6                                    | NR                             | 525               | 424                                  | NR                             | 655               | 135                                  | NR                             | 785               | 3                                    | NR                             | 915               | 0                                    | NR                             |
| 400               | 9                                    | NR                             | 530               | 439                                  | NR                             | 660               | 117                                  | NR                             | 790               | 3                                    | NR                             | 920               | 0                                    | NR                             |
| 405               | 14                                   | NR                             | 535               | 449                                  | NR                             | 665               | 103                                  | NR                             | 795               | 2                                    | NR                             | 925               | 0                                    | NR                             |
| 410               | 28                                   | NR                             | 540               | 454                                  | NR                             | 670               | 89                                   | NR                             | 800               | 2                                    | NR                             | 930               | 0                                    | NR                             |
| 415               | 55                                   | NR                             | 545               | 459                                  | NR                             | 675               | 77                                   | NR                             | 805               | 2                                    | NR                             | 935               | 0                                    | NR                             |
| 420               | 118                                  | NR                             | 550               | 463                                  | NR                             | 680               | 67                                   | NR                             | 810               | 2                                    | NR                             | 940               | 0                                    | NR                             |
| 425               | 237                                  | NR                             | 555               | 466                                  | NR                             | 685               | 58                                   | NR                             | 815               | 1                                    | NR                             | 945               | 0                                    | NR                             |
| 430               | 420                                  | NR                             | 560               | 467                                  | NR                             | 690               | 50                                   | NR                             | 820               | 1                                    | NR                             | 950               | 0                                    | NR                             |
| 435               | 677                                  | NR                             | 565               | 469                                  | NR                             | 695               | 43                                   | NR                             | 825               | 1                                    | NR                             | 955               | 0                                    | NR                             |
| 440               | 962                                  | NR                             | 570               | 469                                  | NR                             | 700               | 37                                   | NR                             | 830               | 1                                    | NR                             | 960               | 0                                    | NR                             |
| 445               | 894                                  | NR                             | 575               | 466                                  | NR                             | 705               | 32                                   | NR                             | 835               | 1                                    | NR                             | 965               | 0                                    | NR                             |
| 450               | 472                                  | NR                             | 580               | 461                                  | NR                             | 710               | 28                                   | NR                             | 840               | 1                                    | NR                             | 970               | 0                                    | NR                             |
| 455               | 275                                  | NR                             | 585               | 450                                  | NR                             | 715               | 24                                   | NR                             | 845               | 1                                    | NR                             | 975               | 0                                    | NR                             |
| 460               | 180                                  | NR                             | 590               | 437                                  | NR                             | 720               | 21                                   | NR                             | 850               | 1                                    | NR                             | 980               | 0                                    | NR                             |
| 465               | 107                                  | NR                             | 595               | 420                                  | NR                             | 725               | 18                                   | NR                             | 855               | 0                                    | NR                             | 985               | 0                                    | NR                             |
| 470               | 76                                   | NR                             | 600               | 400                                  | NR                             | 730               | 15                                   | NR                             | 860               | 0                                    | NR                             | 990               | 0                                    | NR                             |
| 475               | 68                                   | NR                             | 605               | 376                                  | NR                             | 735               | 13                                   | NR                             | 865               | 0                                    | NR                             | 995               | 0                                    | NR                             |
| 480               | 69                                   | NR                             | 610               | 352                                  | NR                             | 740               | 11                                   | NR                             | 870               | 0                                    | NR                             | 1000              | 0                                    | NR                             |
| 485               | 86                                   | NR                             | 615               | 325                                  | NR                             | 745               | 10                                   | NR                             | 875               | 0                                    | NR                             |                   |                                      |                                |

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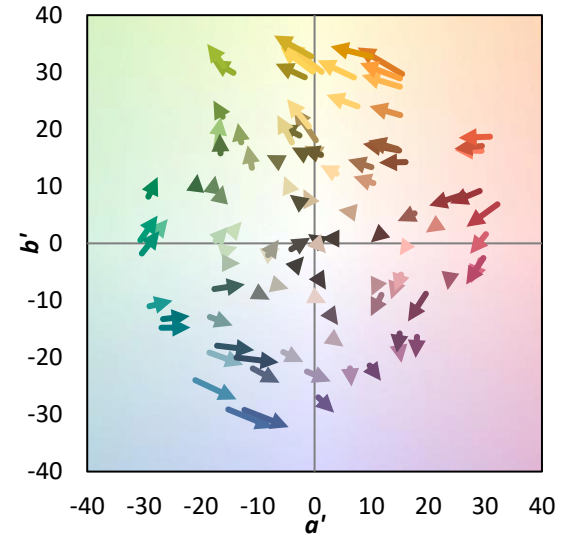
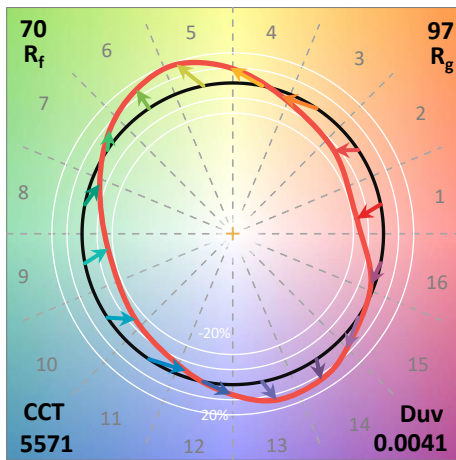
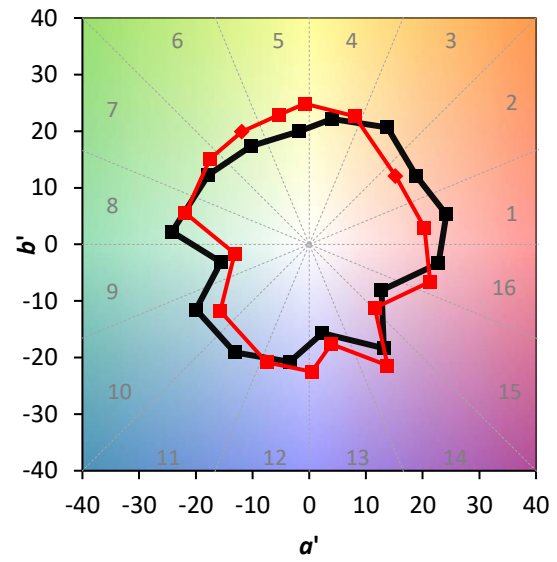
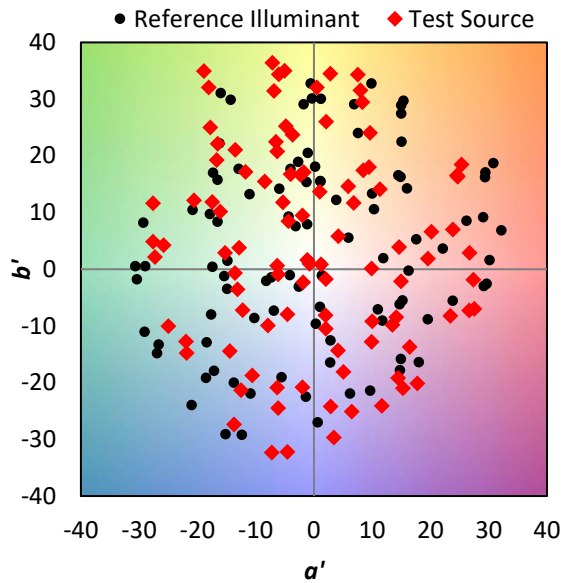
TM-30-18

### Summary

$R_f = 70.4$   
 $R_g = 97.1$   
 $\text{CIE } R_a = 69.9$   
 $R_g = -35.4$

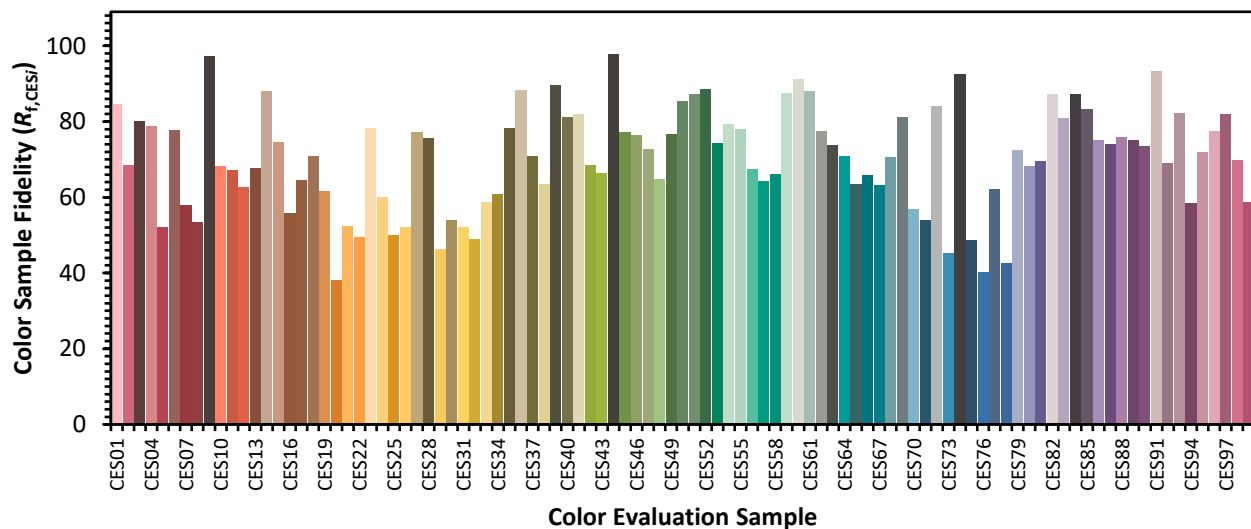


### Color Vector Graphics

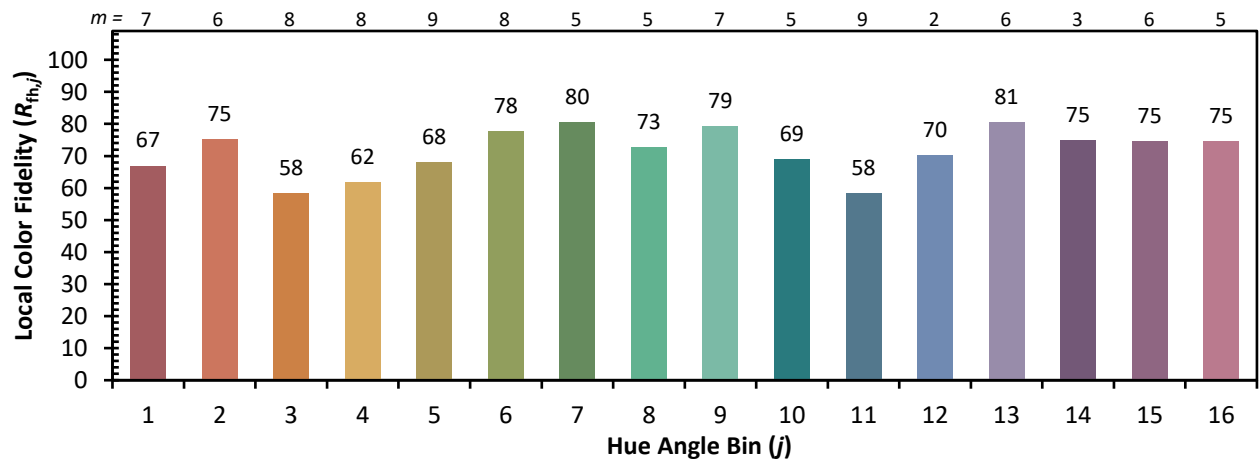
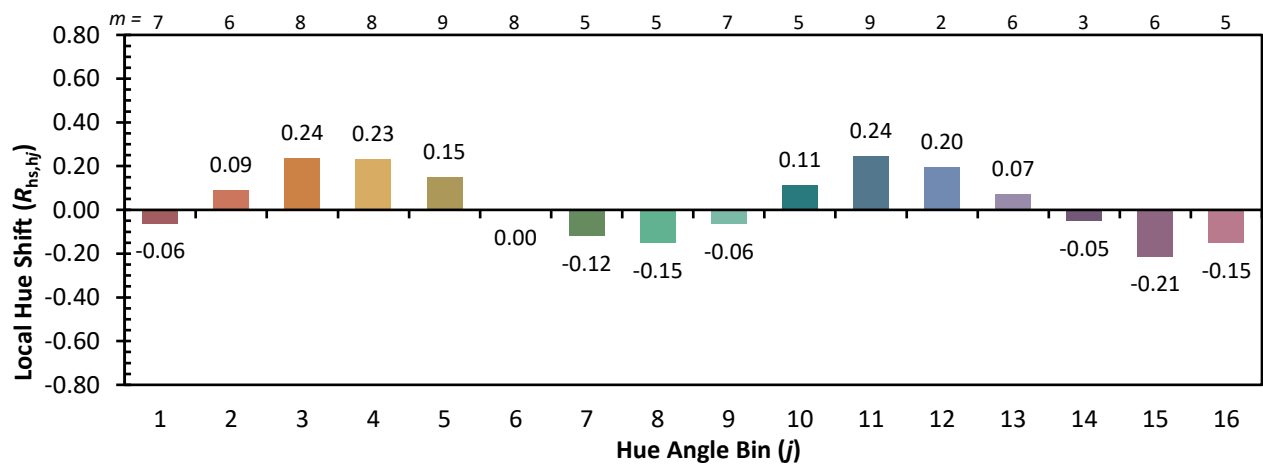
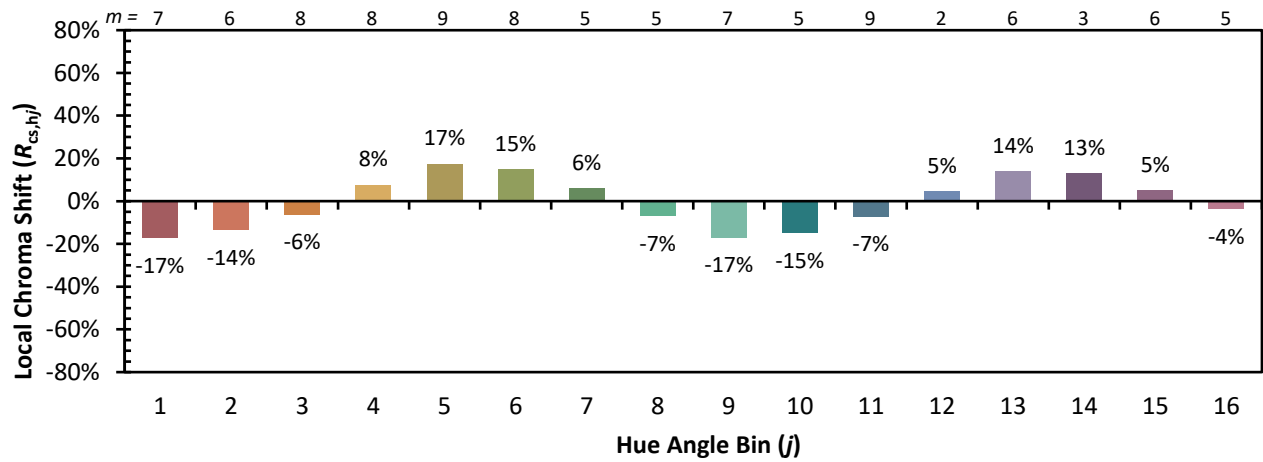


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

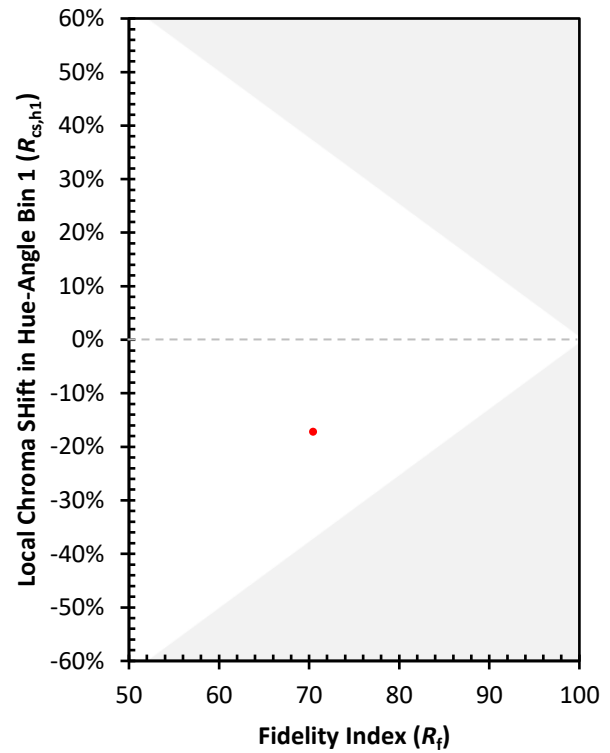
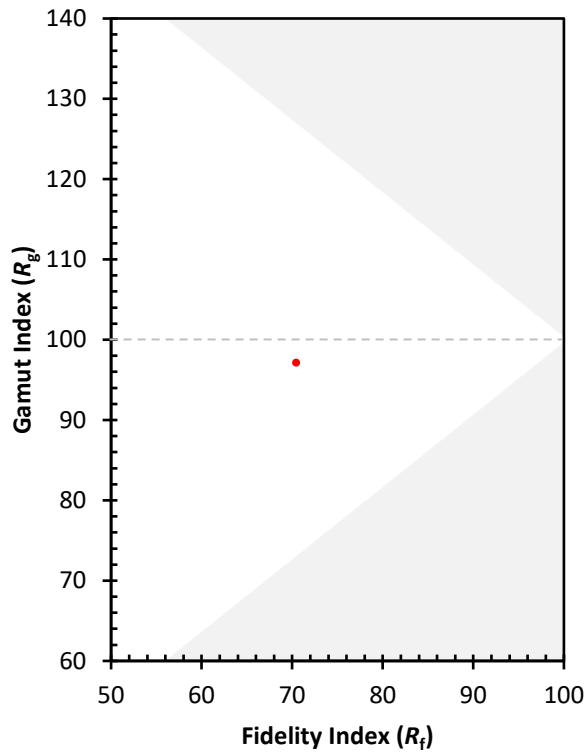
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 52 | CES51 = 87 | CES76 = 40 |
| CES02 = 59 | CES27 = 77 | CES52 = 88 | CES77 = 62 |
| CES03 = 30 | CES28 = 76 | CES53 = 74 | CES78 = 43 |
| CES04 = 68 | CES29 = 46 | CES54 = 79 | CES79 = 72 |
| CES05 = 45 | CES30 = 54 | CES55 = 78 | CES80 = 68 |
| CES06 = 49 | CES31 = 52 | CES56 = 67 | CES81 = 70 |
| CES07 = 38 | CES32 = 49 | CES57 = 64 | CES82 = 87 |
| CES08 = 37 | CES33 = 59 | CES58 = 66 | CES83 = 81 |
| CES09 = 29 | CES34 = 61 | CES59 = 87 | CES84 = 87 |
| CES10 = 72 | CES35 = 78 | CES60 = 91 | CES85 = 83 |
| CES11 = 55 | CES36 = 88 | CES61 = 88 | CES86 = 75 |
| CES12 = 61 | CES37 = 71 | CES62 = 77 | CES87 = 74 |
| CES13 = 41 | CES38 = 64 | CES63 = 74 | CES88 = 76 |
| CES14 = 74 | CES39 = 90 | CES64 = 71 | CES89 = 75 |
| CES15 = 70 | CES40 = 81 | CES65 = 63 | CES90 = 73 |
| CES16 = 46 | CES41 = 82 | CES66 = 66 | CES91 = 93 |
| CES17 = 48 | CES42 = 69 | CES67 = 63 | CES92 = 69 |
| CES18 = 55 | CES43 = 67 | CES68 = 71 | CES93 = 82 |
| CES19 = 70 | CES44 = 98 | CES69 = 81 | CES94 = 58 |
| CES20 = 63 | CES45 = 77 | CES70 = 57 | CES95 = 72 |
| CES21 = 85 | CES46 = 76 | CES71 = 54 | CES96 = 78 |
| CES22 = 77 | CES47 = 73 | CES72 = 84 | CES97 = 82 |
| CES23 = 91 | CES48 = 65 | CES73 = 45 | CES98 = 70 |
| CES24 = 90 | CES49 = 77 | CES74 = 92 | CES99 = 59 |
| CES25 = 71 | CES50 = 85 | CES75 = 49 |            |



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)