

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: P1049590

Luminaire Tested: **GALN-SA6B-730-U-LBC**

Issue Date: 07/10/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1049590  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/10/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6B-730-U-LBC  
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 6xLight Square PACKAGE  
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (84) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23641.7 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G4

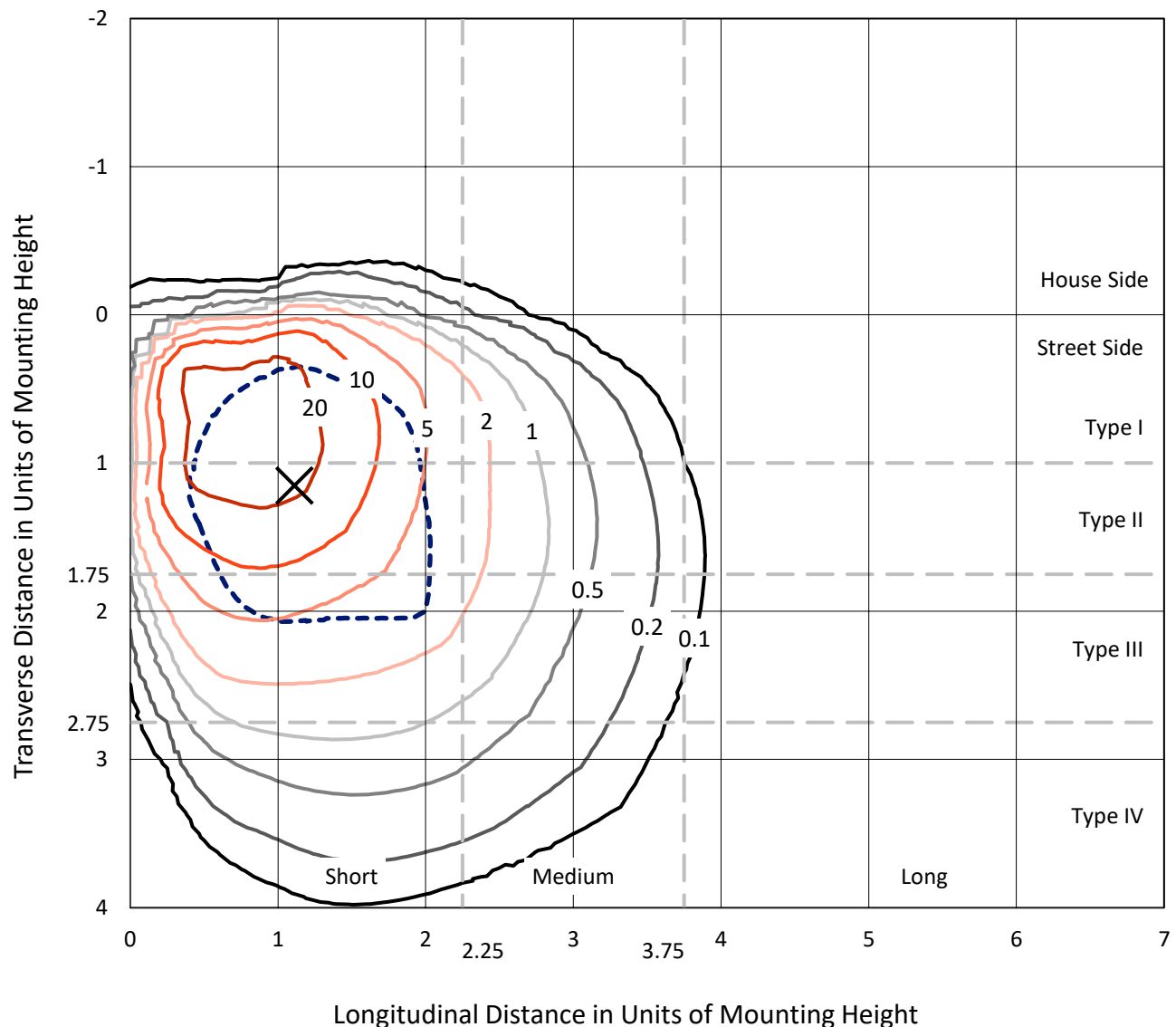
Input Watts (W): 213.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.97  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

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## Iso-Footcandle Lines of Horizontal Illumination

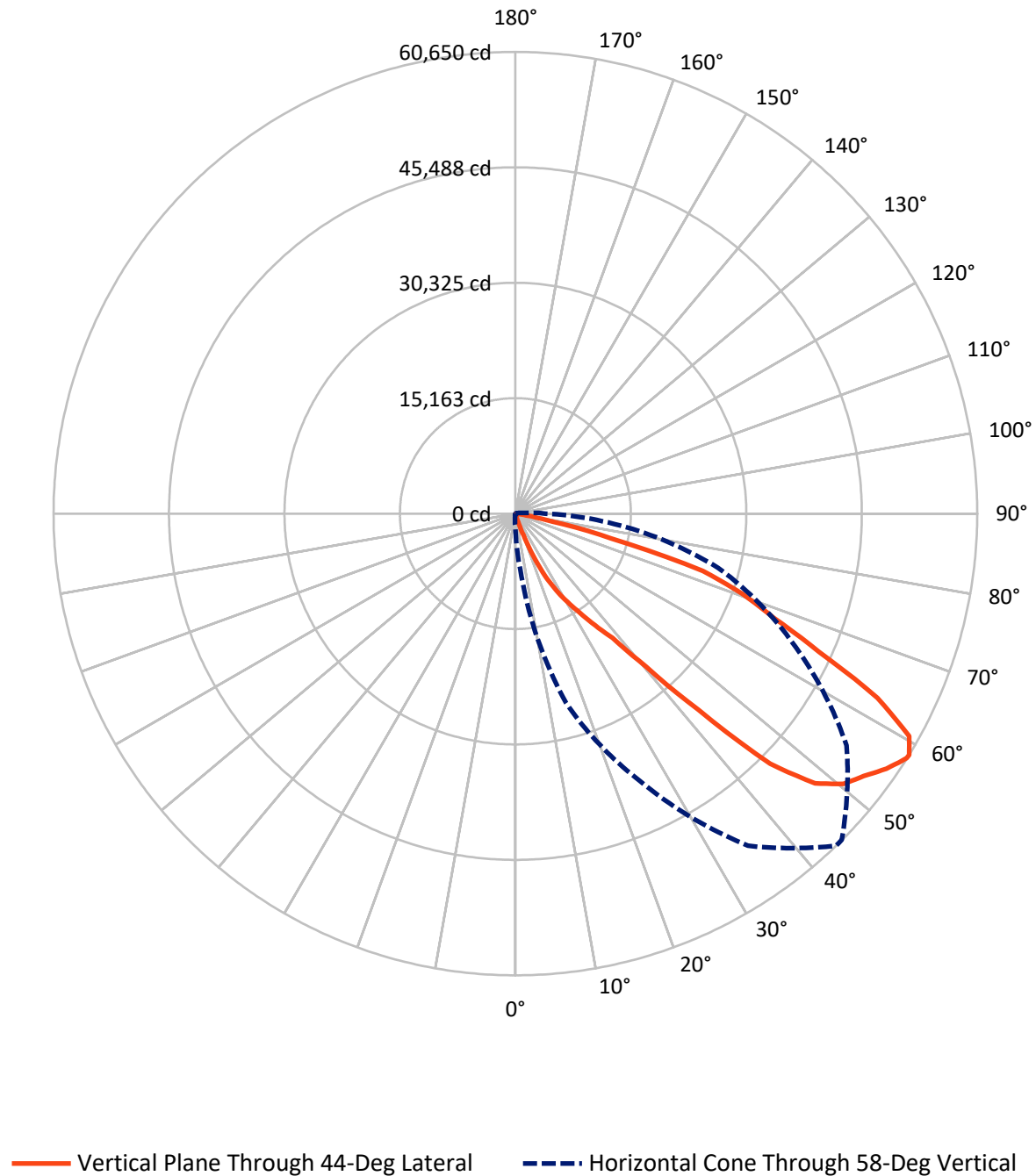
× Max cd  
- - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 41.2 fc  
Type III - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 161.4    | 0.0    | 161.4   |
|                    | % Fixture | 0.7      | 0.0    | 0.7     |
| <b>Street Side</b> | Lumens    | 23480.3  | 0.0    | 23480.3 |
|                    | % Fixture | 99.3     | 0.0    | 99.3    |
| <b>Total</b>       | Lumens    | 23641.7  | 0.0    | 23641.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 9.2     | 0.0       |
| 10°-20°   | 51.8    | 0.2       |
| 20°-30°   | 560.1   | 2.4       |
| 30°-40°   | 1656.3  | 7.0       |
| 40°-50°   | 4936.8  | 20.9      |
| 50°-60°   | 7833.5  | 33.1      |
| 60°-70°   | 6534.0  | 27.6      |
| 70°-80°   | 2015.2  | 8.5       |
| 80°-90°   | 44.8    | 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°    | 23641.7 | 100.0     |
| 0°-180°   | 23641.7 | 100.0     |



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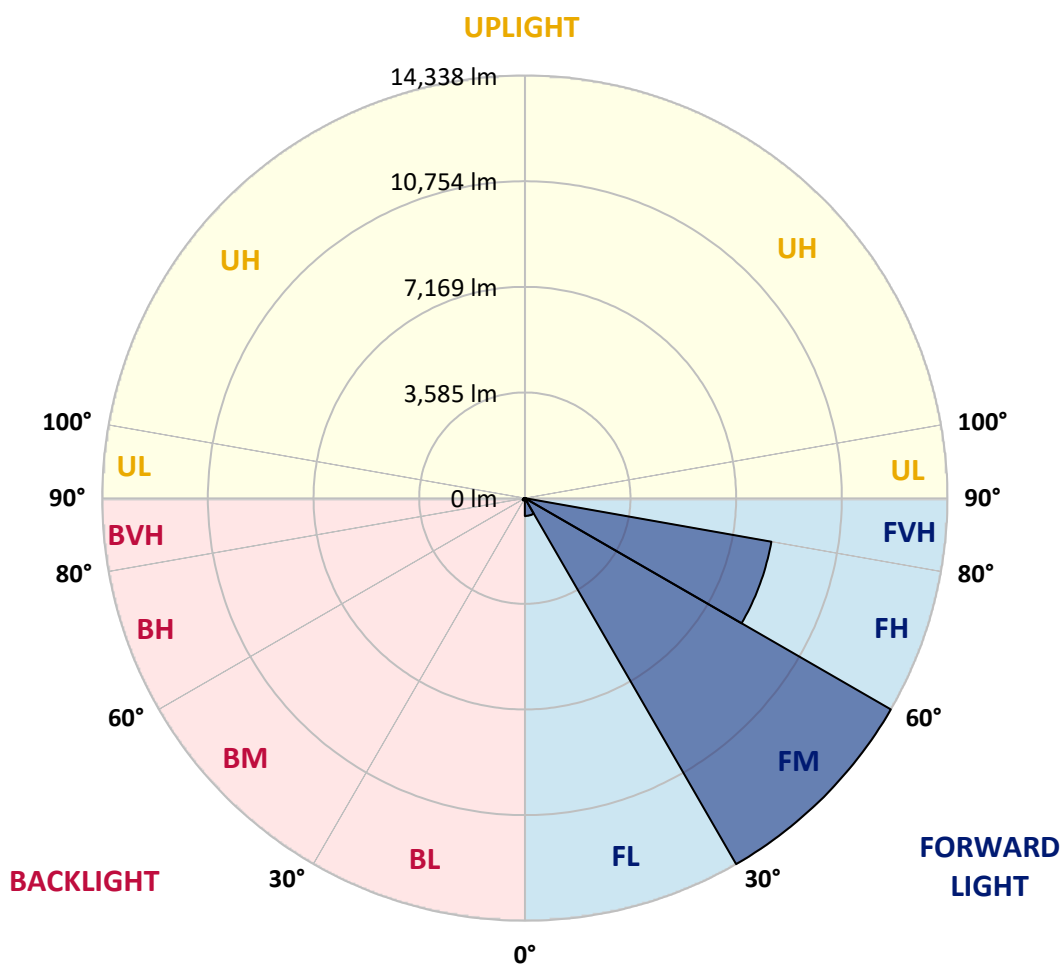
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 605.4   | 2.6       |                         |      |          |
| FM   | (30°-60°)   | 14338.2 | 60.6      |                         |      |          |
| FH   | (60°-80°)   | 8494.1  | 35.9      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 42.6    | 0.2       |                         |      | G1/100   |
| BL   | (0°-30°)    | 15.8    | 0.1       | B0/110                  |      |          |
| BM   | (30°-60°)   | 88.4    | 0.4       | B0/220                  |      |          |
| BH   | (60°-80°)   | 55.1    | 0.2       | B0/110                  |      | G0/110   |
| BVH  | (80°-90°)   | 2.2     | 0.0       |                         |      | G0/10    |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

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

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°     | 25°     | 35°     | 44°     | 45°     | 55°     | 65°     | 75°     |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 103.6  | 103.6  | 103.6   | 103.6   | 103.6   | 103.6   | 103.6   | 103.6   | 103.6   | 103.6   |
| 2.5°  | 133.9  | 133.9  | 128.6   | 121.4   | 114.3   | 107.2   | 105.4   | 101.8   | 100.0   | 98.2    |
| 5°    | 139.3  | 139.3  | 137.5   | 132.2   | 125.0   | 119.7   | 119.7   | 114.3   | 110.7   | 107.2   |
| 7.5°  | 142.9  | 144.7  | 148.2   | 146.4   | 142.9   | 137.5   | 137.5   | 133.9   | 128.6   | 119.7   |
| 10°   | 148.2  | 153.6  | 160.7   | 164.3   | 166.1   | 166.1   | 164.3   | 162.5   | 153.6   | 141.1   |
| 12.5° | 153.6  | 164.3  | 182.2   | 200.0   | 210.7   | 225.0   | 223.2   | 219.7   | 196.5   | 169.7   |
| 15°   | 164.3  | 180.4  | 217.9   | 269.7   | 350.0   | 400.0   | 419.7   | 401.8   | 325.0   | 228.6   |
| 17.5° | 176.8  | 203.6  | 316.1   | 564.4   | 925.1   | 1096.6  | 1200.1  | 1116.2  | 739.4   | 434.0   |
| 20°   | 189.3  | 248.2  | 587.6   | 1462.7  | 2400.3  | 2961.1  | 3116.5  | 2873.6  | 1844.9  | 826.9   |
| 22.5° | 210.7  | 348.3  | 1191.2  | 3023.6  | 5172.1  | 6013.2  | 6172.2  | 5395.3  | 3484.4  | 1632.3  |
| 25°   | 255.4  | 505.4  | 2053.8  | 4927.4  | 7718.8  | 9138.6  | 9072.5  | 8054.6  | 5652.5  | 2607.5  |
| 27.5° | 319.7  | 735.8  | 3105.7  | 7000.9  | 10158.4 | 11410.3 | 11560.3 | 10301.3 | 7534.8  | 3834.4  |
| 30°   | 412.6  | 1019.8 | 4234.4  | 8661.8  | 12114.0 | 13467.7 | 13492.7 | 12190.8 | 9219.0  | 4911.3  |
| 32.5° | 501.8  | 1287.7 | 5222.1  | 10267.3 | 14041.0 | 15525.1 | 15635.8 | 14033.9 | 10476.3 | 6032.9  |
| 35°   | 569.7  | 1462.7 | 6222.2  | 11678.2 | 15984.1 | 18029.0 | 18021.8 | 16119.8 | 11965.7 | 7034.8  |
| 37.5° | 575.1  | 1637.7 | 7127.7  | 13121.2 | 18445.1 | 20734.7 | 20961.5 | 18864.8 | 13766.0 | 8274.2  |
| 40°   | 562.6  | 1834.2 | 8274.2  | 15371.5 | 22879.6 | 26392.5 | 26592.5 | 23949.4 | 17377.1 | 10395.9 |
| 42.5° | 576.9  | 2175.3 | 10135.2 | 19527.4 | 30243.0 | 35288.2 | 35674.0 | 32895.1 | 24015.4 | 14725.0 |
| 45°   | 651.9  | 2816.4 | 14033.9 | 26480.0 | 40738.9 | 46889.7 | 46761.1 | 42758.8 | 31739.6 | 21315.1 |
| 47.5° | 900.1  | 4386.3 | 19813.1 | 33246.9 | 47446.9 | 52924.3 | 53035.1 | 48143.4 | 36247.3 | 26381.8 |
| 50°   | 1384.1 | 6711.5 | 24669.1 | 36824.1 | 50331.2 | 55826.5 | 55722.9 | 50070.4 | 37960.0 | 28876.7 |
| 52.5° | 1800.2 | 8393.9 | 27105.1 | 38079.7 | 50700.8 | 57260.6 | 57253.4 | 50577.6 | 38226.1 | 29091.1 |
| 55°   | 1903.8 | 8520.7 | 27124.7 | 38147.5 | 51529.5 | 59137.6 | 59373.3 | 51826.0 | 38570.8 | 28155.2 |
| 57.5° | 1862.7 | 7543.8 | 25992.5 | 38540.4 | 53004.7 | 60589.6 | 60602.1 | 53035.1 | 39445.9 | 27581.9 |
| 58°   | 1827.0 | 7390.2 | 25763.9 | 38763.7 | 53258.3 | 60650.3 | 60619.9 | 53090.4 | 40158.5 | 27560.5 |
| 60°   | 1627.0 | 6416.9 | 24872.7 | 39333.4 | 52881.5 | 59403.7 | 59119.7 | 51881.3 | 40053.1 | 27340.8 |
| 62.5° | 1278.7 | 5006.0 | 23995.8 | 38674.4 | 48841.7 | 53369.0 | 53486.9 | 45932.4 | 36513.4 | 26060.3 |
| 65°   | 1018.0 | 3730.8 | 22167.0 | 33923.8 | 40219.2 | 43826.8 | 44266.1 | 37351.0 | 30476.9 | 22067.0 |
| 67.5° | 810.8  | 2696.8 | 18595.1 | 27008.7 | 31825.3 | 36577.7 | 36897.4 | 31359.2 | 23611.8 | 16907.4 |
| 70°   | 659.0  | 1823.4 | 12835.5 | 19752.4 | 26249.6 | 31593.1 | 31612.8 | 26051.4 | 17623.6 | 11078.1 |
| 72.5° | 584.0  | 1262.7 | 7450.9  | 14405.3 | 21284.7 | 25744.2 | 25224.5 | 21140.1 | 13544.5 | 6561.5  |
| 75°   | 505.4  | 837.6  | 3654.0  | 8806.4  | 12905.1 | 12992.7 | 13190.9 | 9806.6  | 6770.5  | 3120.0  |
| 77.5° | 416.1  | 594.7  | 1439.5  | 2405.7  | 3870.1  | 4954.2  | 5138.1  | 3893.3  | 2252.1  | 768.0   |
| 80°   | 285.7  | 282.2  | 387.5   | 737.6   | 1107.3  | 1387.7  | 1294.8  | 1001.9  | 589.4   | 294.7   |
| 82.5° | 123.2  | 133.9  | 175.0   | 210.7   | 171.4   | 166.1   | 158.9   | 101.8   | 78.6    | 60.7    |
| 85°   | 39.3   | 35.7   | 37.5    | 37.5    | 30.4    | 23.2    | 23.2    | 10.7    | 0.0     | 0.0     |
| 87.5° | 19.6   | 16.1   | 16.1    | 14.3    | 8.9     | 3.6     | 1.8     | 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     |



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**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  |
|---------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 103.6   | 0°    | 103.6  | 103.6  | 103.6 | 103.6 | 103.6 | 103.6 | 103.6 | 103.6 | 103.6 | 103.6 |
| 96.4    | 2.5°  | 94.7   | 94.7   | 91.1  | 87.5  | 85.7  | 82.2  | 80.4  | 78.6  | 76.8  | 75.0  |
| 103.6   | 5°    | 100.0  | 98.2   | 92.9  | 87.5  | 82.2  | 76.8  | 73.2  | 69.7  | 66.1  | 64.3  |
| 114.3   | 7.5°  | 108.9  | 105.4  | 94.7  | 85.7  | 78.6  | 71.4  | 67.9  | 62.5  | 58.9  | 53.6  |
| 126.8   | 10°   | 119.7  | 112.5  | 98.2  | 87.5  | 76.8  | 67.9  | 62.5  | 57.1  | 51.8  | 44.6  |
| 144.7   | 12.5° | 133.9  | 121.4  | 103.6 | 85.7  | 73.2  | 62.5  | 57.1  | 50.0  | 44.6  | 39.3  |
| 167.9   | 15°   | 146.4  | 130.4  | 105.4 | 85.7  | 69.7  | 57.1  | 50.0  | 42.9  | 37.5  | 30.4  |
| 210.7   | 17.5° | 164.3  | 137.5  | 103.6 | 80.4  | 64.3  | 50.0  | 42.9  | 37.5  | 28.6  | 17.9  |
| 312.5   | 20°   | 194.7  | 142.9  | 100.0 | 75.0  | 55.4  | 41.1  | 32.1  | 25.0  | 12.5  | 3.6   |
| 469.7   | 22.5° | 242.9  | 157.2  | 96.4  | 67.9  | 48.2  | 32.1  | 21.4  | 8.9   | 0.0   | 0.0   |
| 714.4   | 25°   | 335.8  | 182.2  | 96.4  | 64.3  | 42.9  | 23.2  | 7.1   | 0.0   | 0.0   | 0.0   |
| 1014.4  | 27.5° | 446.5  | 216.1  | 96.4  | 55.4  | 33.9  | 12.5  | 0.0   | 0.0   | 0.0   | 0.0   |
| 1382.3  | 30°   | 559.0  | 253.6  | 96.4  | 48.2  | 26.8  | 1.8   | 0.0   | 0.0   | 0.0   | 0.0   |
| 1702.0  | 32.5° | 666.2  | 285.7  | 98.2  | 41.1  | 17.9  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 2144.9  | 35°   | 775.1  | 291.1  | 96.4  | 35.7  | 10.7  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 2687.8  | 37.5° | 914.4  | 280.4  | 91.1  | 32.1  | 5.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 3536.1  | 40°   | 1125.1 | 285.7  | 85.7  | 30.4  | 1.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 5048.8  | 42.5° | 1514.5 | 309.0  | 78.6  | 30.4  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 8042.1  | 45°   | 2618.2 | 414.3  | 71.4  | 32.1  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 12072.9 | 47.5° | 4330.9 | 744.7  | 69.7  | 32.1  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 14542.8 | 50°   | 5527.5 | 937.6  | 73.2  | 33.9  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 14851.8 | 52.5° | 5518.5 | 1044.8 | 76.8  | 35.7  | 7.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 13689.2 | 55°   | 4906.0 | 1064.4 | 82.2  | 39.3  | 23.2  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 11763.9 | 57.5° | 4100.5 | 971.5  | 94.7  | 48.2  | 42.9  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 11462.1 | 58°   | 3957.6 | 928.7  | 98.2  | 50.0  | 46.4  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 9942.3  | 60°   | 3243.3 | 757.2  | 125.0 | 62.5  | 62.5  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 8151.0  | 62.5° | 2239.6 | 660.8  | 142.9 | 80.4  | 64.3  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 6009.7  | 65°   | 1584.1 | 596.5  | 155.4 | 85.7  | 51.8  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 4270.2  | 67.5° | 1184.1 | 550.1  | 171.4 | 87.5  | 26.8  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 2678.9  | 70°   | 907.3  | 516.1  | 210.7 | 92.9  | 7.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 1596.6  | 72.5° | 739.4  | 476.8  | 255.4 | 96.4  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 957.3   | 75°   | 612.6  | 430.4  | 246.5 | 105.4 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 510.8   | 77.5° | 407.2  | 334.0  | 225.0 | 105.4 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 182.2   | 80°   | 142.9  | 132.2  | 175.0 | 92.9  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 37.5    | 82.5° | 21.4   | 17.9   | 25.0  | 32.1  | 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°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 103.6 | 0°    | 103.6 | 103.6 | 103.6 | 103.6 | 103.6 | 103.6 | 103.6 | 103.6 | 103.6 | 103.6 |
| 73.2  | 2.5°  | 73.2  | 73.2  | 71.4  | 73.2  | 73.2  | 76.8  | 85.7  | 98.2  | 112.5 | 117.9 |
| 62.5  | 5°    | 60.7  | 58.9  | 57.1  | 57.1  | 57.1  | 62.5  | 69.7  | 83.9  | 100.0 | 107.2 |
| 51.8  | 7.5°  | 50.0  | 48.2  | 46.4  | 44.6  | 44.6  | 48.2  | 57.1  | 73.2  | 89.3  | 96.4  |
| 42.9  | 10°   | 41.1  | 37.5  | 35.7  | 33.9  | 33.9  | 37.5  | 46.4  | 62.5  | 80.4  | 87.5  |
| 35.7  | 12.5° | 33.9  | 28.6  | 25.0  | 23.2  | 21.4  | 26.8  | 35.7  | 50.0  | 69.7  | 78.6  |
| 26.8  | 15°   | 23.2  | 17.9  | 12.5  | 10.7  | 8.9   | 14.3  | 23.2  | 39.3  | 58.9  | 69.7  |
| 14.3  | 17.5° | 12.5  | 5.4   | 1.8   | 0.0   | 0.0   | 3.6   | 10.7  | 28.6  | 48.2  | 57.1  |
| 0.0   | 20°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 14.3  | 35.7  | 44.6  |
| 0.0   | 22.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 1.8   | 21.4  | 30.4  |
| 0.0   | 25°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 8.9   | 16.1  |
| 0.0   | 27.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 3.6   |
| 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   | 5.4   |
| 0.0   | 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 7.1   | 14.3  |
| 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: P1049590

CATALOG NUMBER: GALN-SA6B-730-U-LBC

**CANDELA DISTRIBUTION (continued):**

| 275°  |       | 285°  | 295°  | 305°  | 315°  | 316°  | 325°  | 335°  | 345°  | 355°  | 360°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 103.6 | 0°    | 103.6 | 103.6 | 103.6 | 103.6 | 103.6 | 103.6 | 103.6 | 103.6 | 103.6 | 103.6  |
| 123.2 | 2.5°  | 126.8 | 125.0 | 121.4 | 117.9 | 117.9 | 117.9 | 123.2 | 128.6 | 133.9 | 133.9  |
| 110.7 | 5°    | 117.9 | 117.9 | 116.1 | 112.5 | 112.5 | 114.3 | 121.4 | 130.4 | 137.5 | 139.3  |
| 101.8 | 7.5°  | 108.9 | 112.5 | 108.9 | 107.2 | 108.9 | 110.7 | 117.9 | 128.6 | 139.3 | 142.9  |
| 94.7  | 10°   | 103.6 | 105.4 | 105.4 | 103.6 | 103.6 | 107.2 | 114.3 | 128.6 | 142.9 | 148.2  |
| 85.7  | 12.5° | 96.4  | 100.0 | 98.2  | 98.2  | 98.2  | 101.8 | 110.7 | 126.8 | 146.4 | 153.6  |
| 76.8  | 15°   | 89.3  | 94.7  | 94.7  | 92.9  | 92.9  | 94.7  | 107.2 | 125.0 | 151.8 | 164.3  |
| 66.1  | 17.5° | 82.2  | 87.5  | 89.3  | 85.7  | 85.7  | 89.3  | 101.8 | 125.0 | 155.4 | 176.8  |
| 53.6  | 20°   | 67.9  | 76.8  | 82.2  | 76.8  | 76.8  | 80.4  | 92.9  | 117.9 | 157.2 | 189.3  |
| 39.3  | 22.5° | 53.6  | 62.5  | 69.7  | 67.9  | 67.9  | 69.7  | 85.7  | 112.5 | 158.9 | 210.7  |
| 23.2  | 25°   | 39.3  | 48.2  | 53.6  | 57.1  | 57.1  | 62.5  | 78.6  | 108.9 | 166.1 | 255.4  |
| 10.7  | 27.5° | 23.2  | 33.9  | 41.1  | 44.6  | 46.4  | 53.6  | 73.2  | 105.4 | 178.6 | 319.7  |
| 0.0   | 30°   | 10.7  | 19.6  | 28.6  | 35.7  | 35.7  | 48.2  | 67.9  | 101.8 | 194.7 | 412.6  |
| 0.0   | 32.5° | 0.0   | 8.9   | 14.3  | 25.0  | 26.8  | 39.3  | 62.5  | 98.2  | 217.9 | 501.8  |
| 0.0   | 35°   | 0.0   | 0.0   | 7.1   | 19.6  | 19.6  | 32.1  | 57.1  | 94.7  | 253.6 | 569.7  |
| 0.0   | 37.5° | 0.0   | 0.0   | 0.0   | 14.3  | 16.1  | 28.6  | 55.4  | 92.9  | 260.7 | 575.1  |
| 0.0   | 40°   | 0.0   | 0.0   | 0.0   | 10.7  | 12.5  | 26.8  | 55.4  | 94.7  | 235.7 | 562.6  |
| 0.0   | 42.5° | 0.0   | 0.0   | 0.0   | 7.1   | 8.9   | 26.8  | 55.4  | 98.2  | 212.5 | 576.9  |
| 0.0   | 45°   | 0.0   | 0.0   | 0.0   | 5.4   | 7.1   | 28.6  | 53.6  | 96.4  | 200.0 | 651.9  |
| 0.0   | 47.5° | 0.0   | 0.0   | 0.0   | 7.1   | 10.7  | 28.6  | 51.8  | 94.7  | 201.8 | 900.1  |
| 0.0   | 50°   | 0.0   | 0.0   | 0.0   | 8.9   | 12.5  | 28.6  | 53.6  | 91.1  | 221.5 | 1384.1 |
| 0.0   | 52.5° | 0.0   | 0.0   | 0.0   | 7.1   | 10.7  | 32.1  | 58.9  | 89.3  | 241.1 | 1800.2 |
| 0.0   | 55°   | 0.0   | 0.0   | 0.0   | 1.8   | 5.4   | 41.1  | 64.3  | 89.3  | 271.5 | 1903.8 |
| 0.0   | 57.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 46.4  | 73.2  | 94.7  | 321.5 | 1862.7 |
| 0.0   | 58°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 46.4  | 75.0  | 94.7  | 325.0 | 1827.0 |
| 0.0   | 60°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 46.4  | 82.2  | 105.4 | 350.0 | 1627.0 |
| 0.0   | 62.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 39.3  | 98.2  | 132.2 | 364.3 | 1278.7 |
| 0.0   | 65°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 32.1  | 116.1 | 144.7 | 375.0 | 1018.0 |
| 0.0   | 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 30.4  | 119.7 | 146.4 | 380.4 | 810.8  |
| 0.0   | 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 32.1  | 117.9 | 157.2 | 398.3 | 659.0  |
| 0.0   | 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 35.7  | 107.2 | 173.2 | 398.3 | 584.0  |
| 0.0   | 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 37.5  | 100.0 | 194.7 | 362.5 | 505.4  |
| 0.0   | 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 35.7  | 98.2  | 226.8 | 323.3 | 416.1  |
| 0.0   | 80°   | 3.6   | 5.4   | 5.4   | 3.6   | 3.6   | 30.4  | 96.4  | 230.4 | 275.0 | 285.7  |
| 1.8   | 82.5° | 10.7  | 14.3  | 12.5  | 8.9   | 8.9   | 26.8  | 85.7  | 192.9 | 142.9 | 123.2  |
| 10.7  | 85°   | 19.6  | 23.2  | 23.2  | 19.6  | 19.6  | 25.0  | 53.6  | 69.7  | 48.2  | 39.3   |
| 19.6  | 87.5° | 26.8  | 30.4  | 30.4  | 26.8  | 26.8  | 25.0  | 23.2  | 21.4  | 19.6  | 19.6   |
| 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

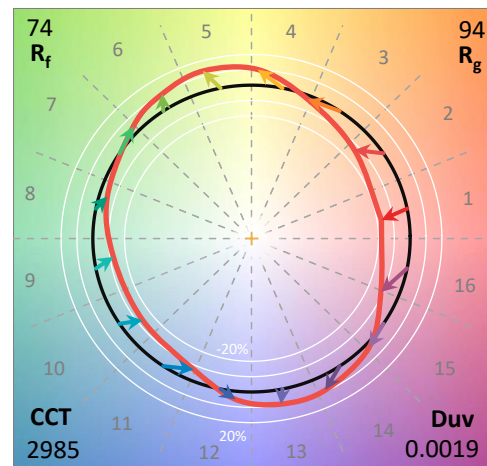
### Test Information

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  
 CIE  $u'$ : 0.2504  
 CIE  $v'$ : 0.5243  
 Duv: 0.0019  
 CIE x: 0.4408  
 CIE y: 0.4101  
 CIE z: 0.1491  
 Peak Wavelength (nm): 595  
 Dominant Wavelength (nm): 582  
 Purity: 55.41818  
 R<sub>f</sub>: 73.8  
 R<sub>g</sub>: 94.4

CRI (Ra): 70.8  
 R1: 66.3  
 R2: 80.6  
 R3: 94.5  
 R4: 68.2  
 R5: 66.5  
 R6: 74.7  
 R7: 76.2  
 R8: 39.6  
 R9: -43.2  
 R10: 57.6  
 R11: 64.8  
 R12: 53.5  
 R13: 68.7  
 R14: 97.0  
 R15: 56.4



### Test Conditions

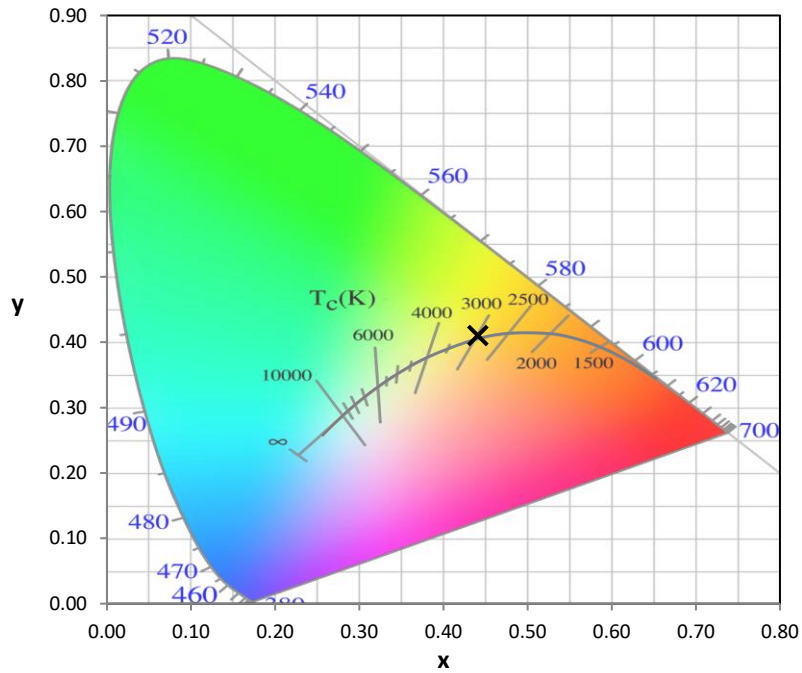
Stabilization Time: 36M  
 Operation Time: 1H 36M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

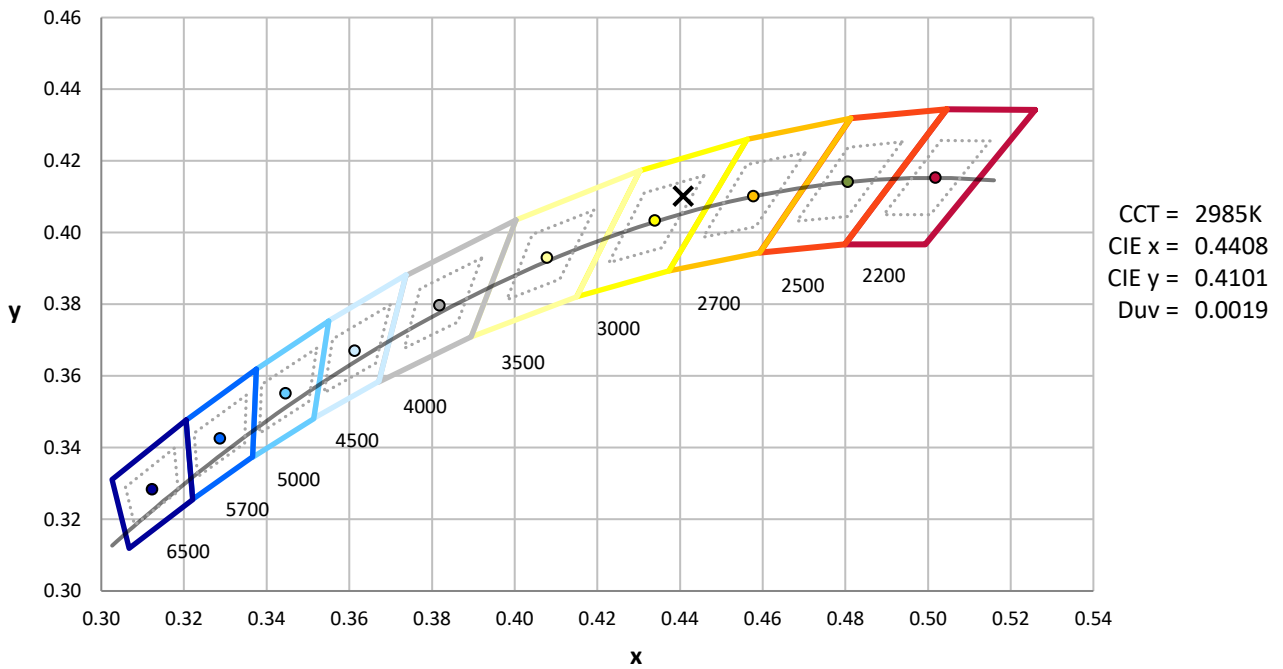
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date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



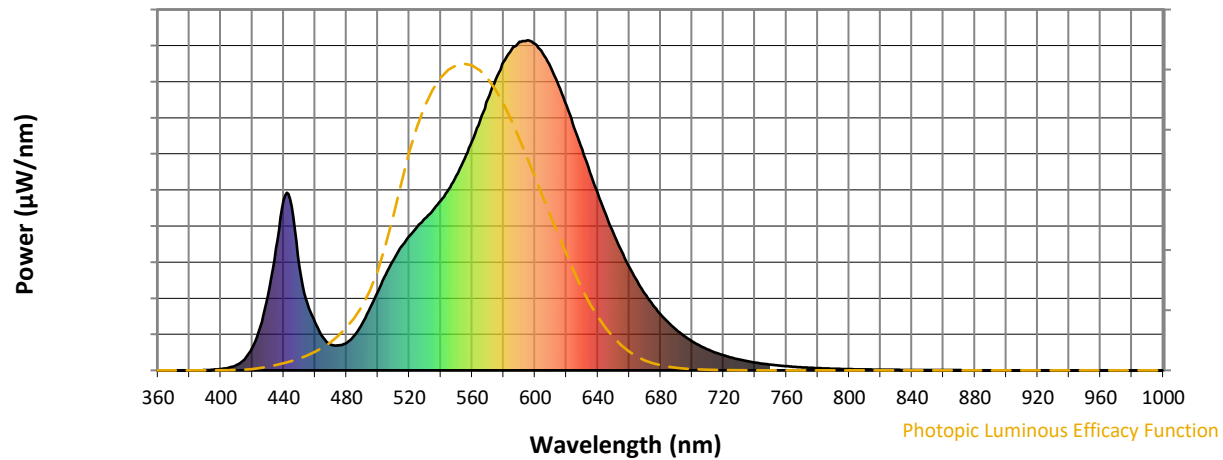
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

### Photopic Flux vs. Wavelength

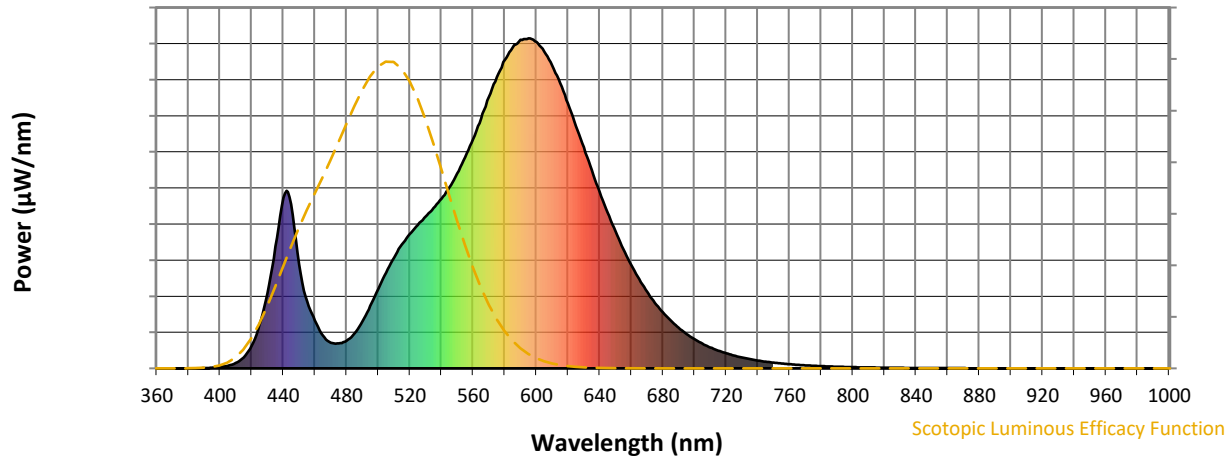


### Photopic Lumens: NR

| 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       | 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



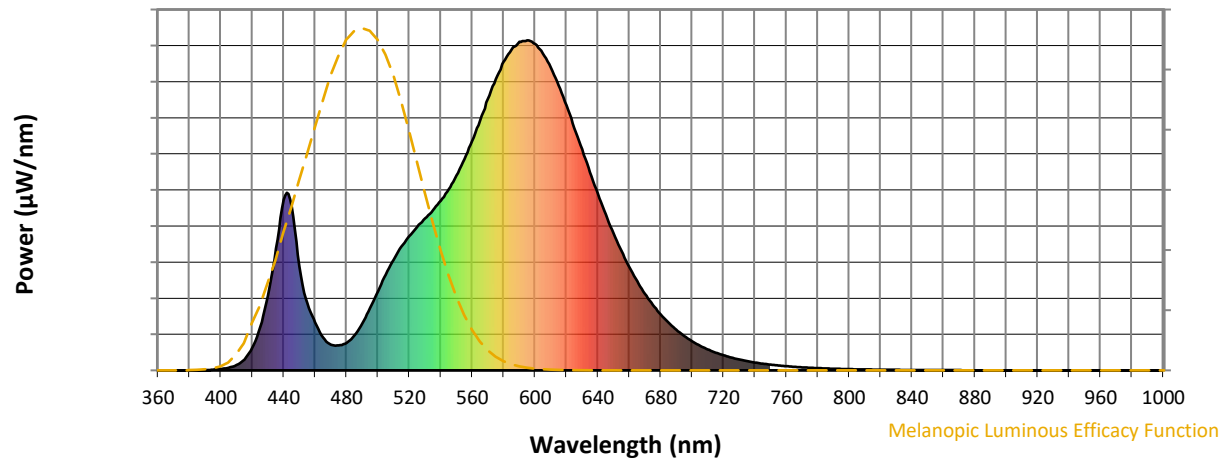
Scotopic Lumens: NR

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                             |                   |                                      |                                |

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### Melanopic Flux vs. Wavelength


**Melanopic Lumens: NR**
**M/P: 2.13**

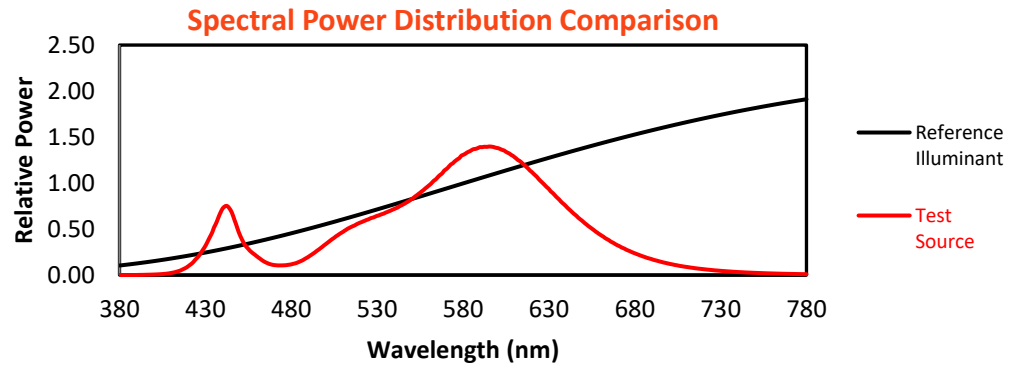
| $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<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                             |                   |                                      |                                |

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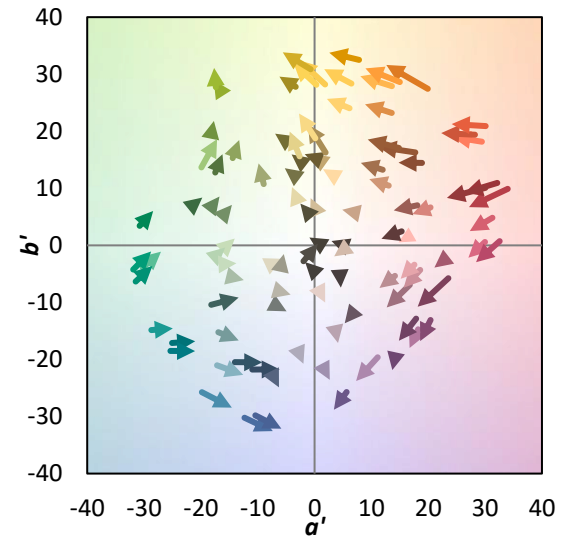
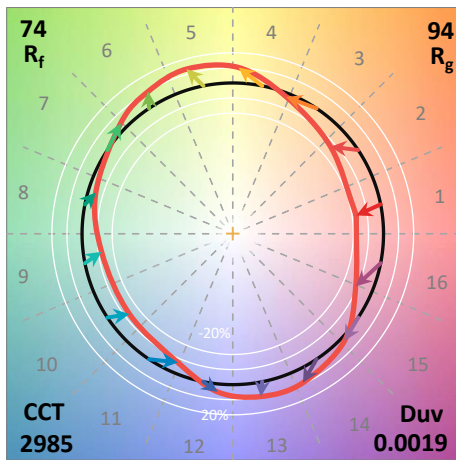
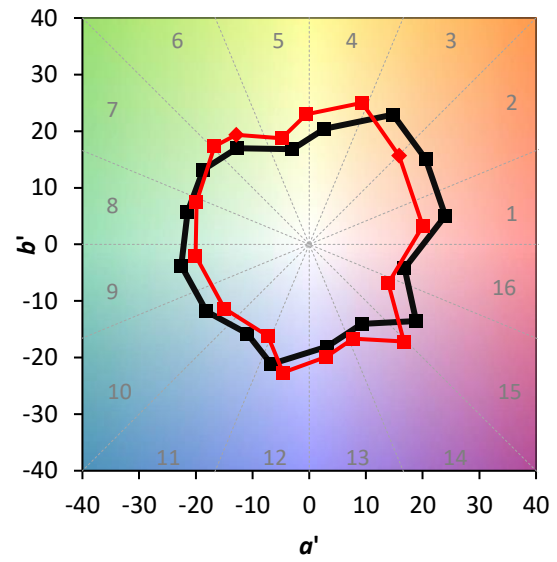
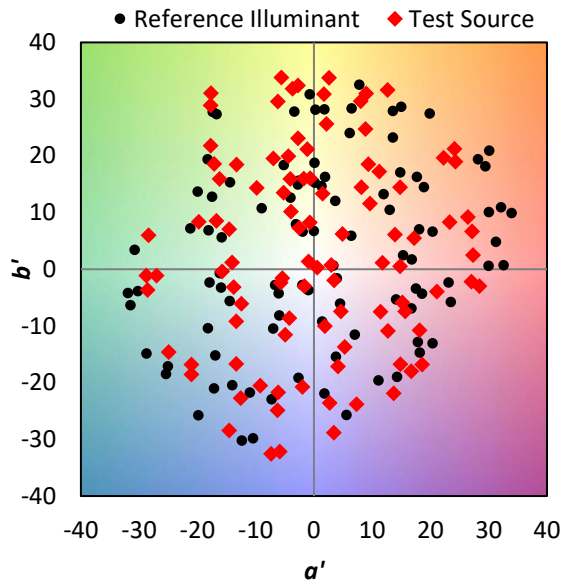
TM-30-18

### Summary

$R_f = 73.8$   
 $R_g = 94.4$   
 $CIE R_a = 70.8$   
 $R_g = -43.2$

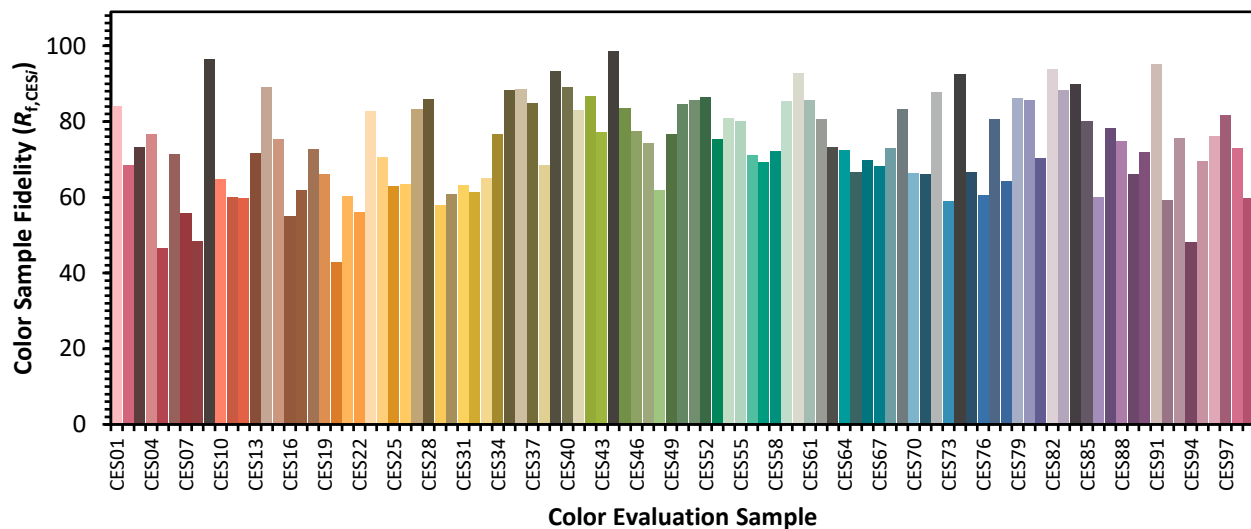


### Color Vector Graphics

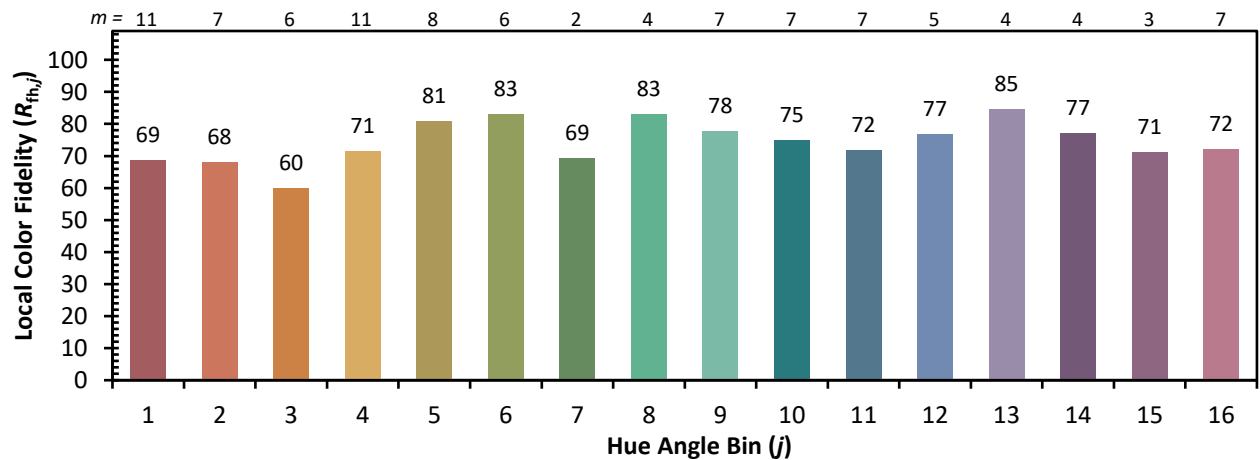
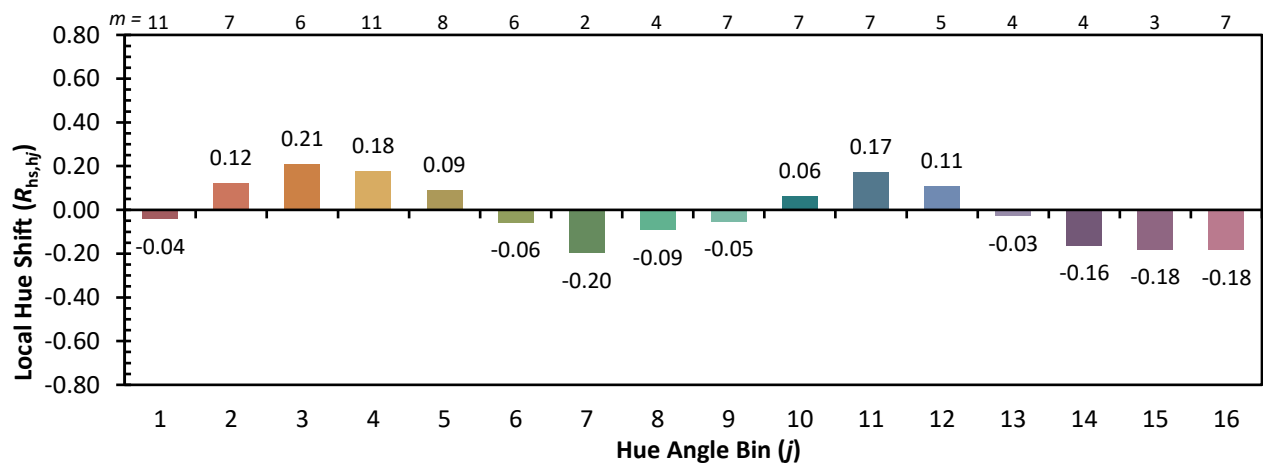
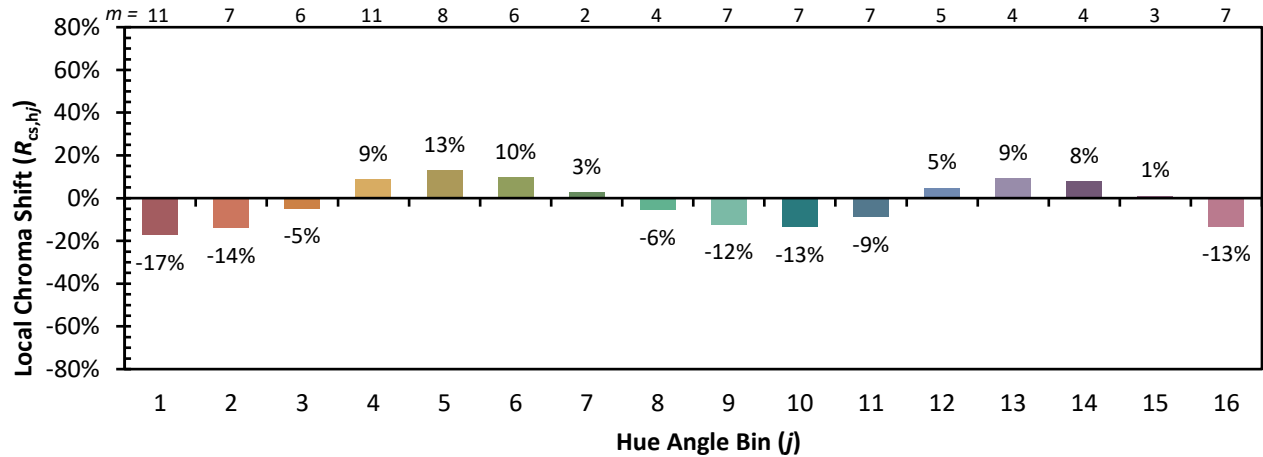


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

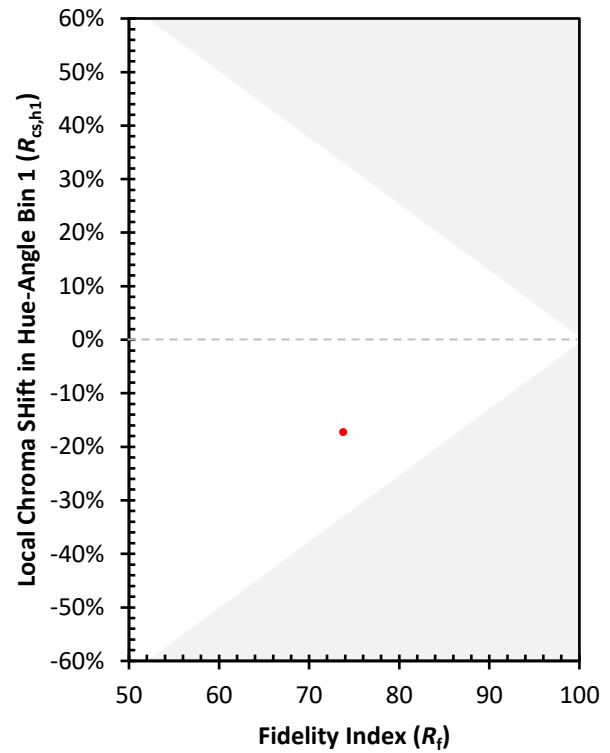
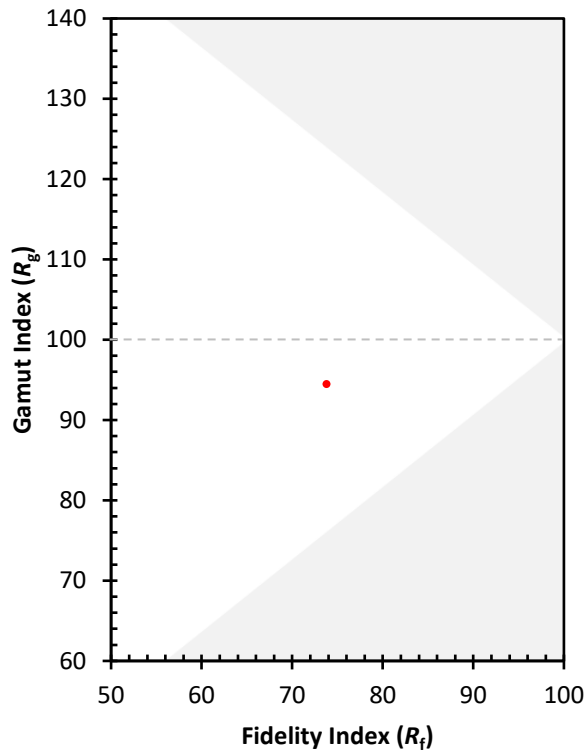
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 63 | CES51 = 86 | CES76 = 61 |
| CES02 = 62 | CES27 = 83 | CES52 = 86 | CES77 = 81 |
| CES03 = 31 | CES28 = 86 | CES53 = 75 | CES78 = 64 |
| CES04 = 71 | CES29 = 58 | CES54 = 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)