

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: P1049923

Luminaire Tested: **GALN-SA8C-927-U-LBC**

Issue Date: 07/10/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1049923  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/10/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8C-927-U-LBC  
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 8xLight Square PACKAGE  
90CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (112) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25140.6 lumens  
Efficiency: N/A  
Efficacy: 67.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G4

Input Watts (W): 372.9  
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

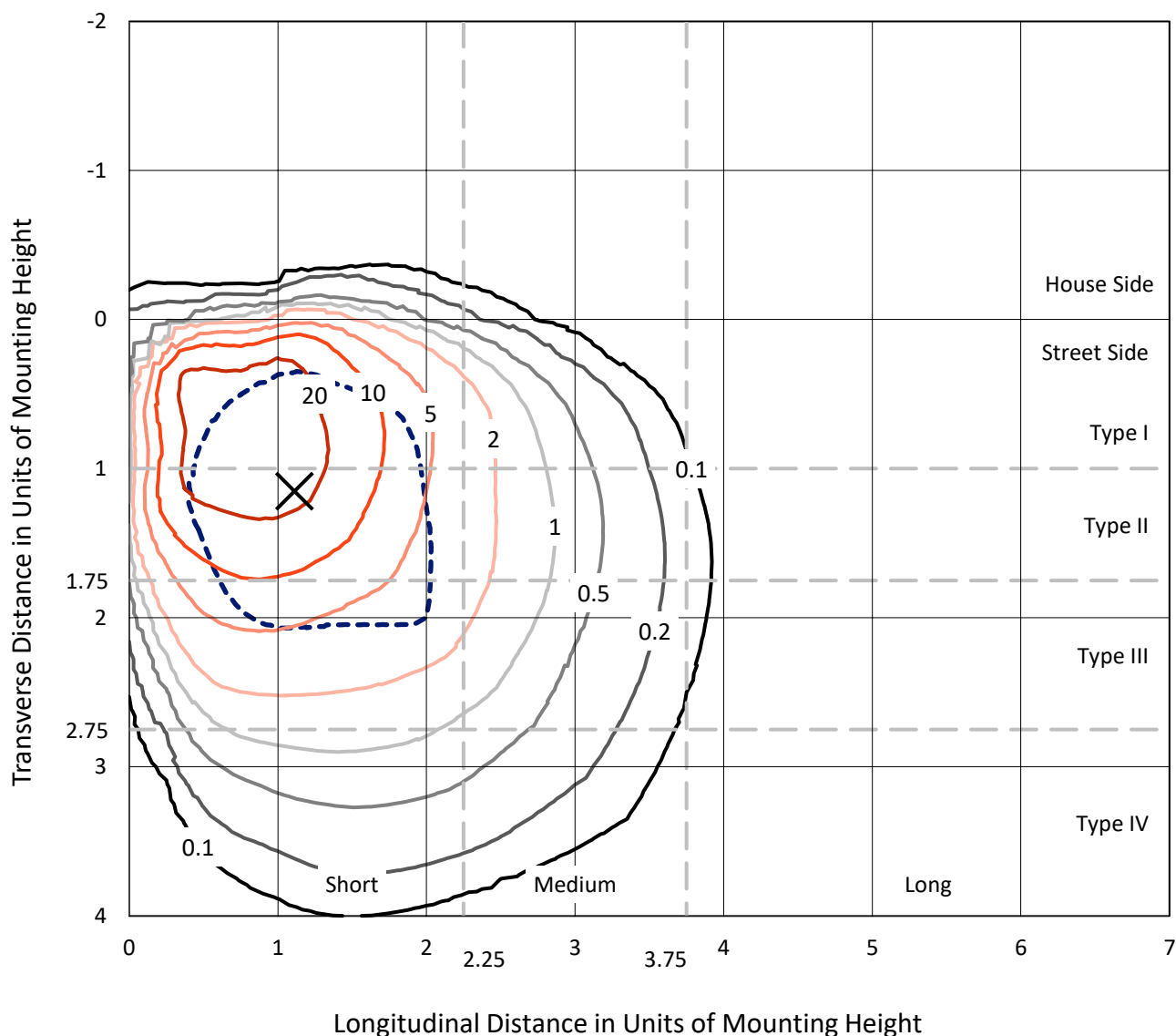
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

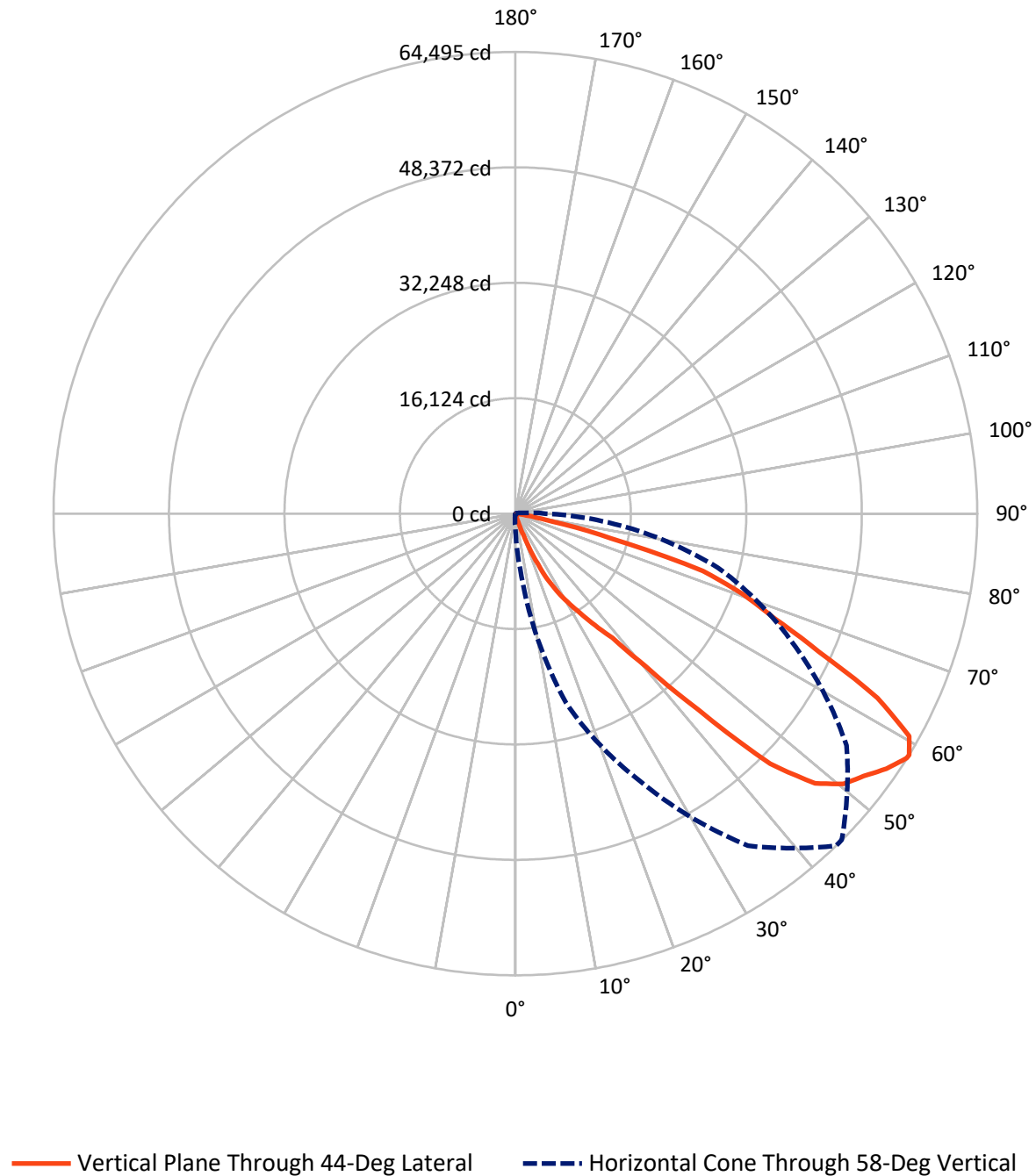


Based on 20 foot mounting height. Maximum calculated value = 43.8 fc

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    | 171.7    | 0.0    | 171.7   |
|                    | % Fixture | 0.7      | 0.0    | 0.7     |
| <b>Street Side</b> | Lumens    | 24968.9  | 0.0    | 24968.9 |
|                    | % Fixture | 99.3     | 0.0    | 99.3    |
| <b>Total</b>       | Lumens    | 25140.6  | 0.0    | 25140.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 9.8     | 0.0       |
| 10°-20°   | 55.1    | 0.2       |
| 20°-30°   | 595.6   | 2.4       |
| 30°-40°   | 1761.3  | 7.0       |
| 40°-50°   | 5249.8  | 20.9      |
| 50°-60°   | 8330.1  | 33.1      |
| 60°-70°   | 6948.3  | 27.6      |
| 70°-80°   | 2143.0  | 8.5       |
| 80°-90°   | 47.6    | 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°    | 25140.6 | 100.0     |
| 0°-180°   | 25140.6 | 100.0     |



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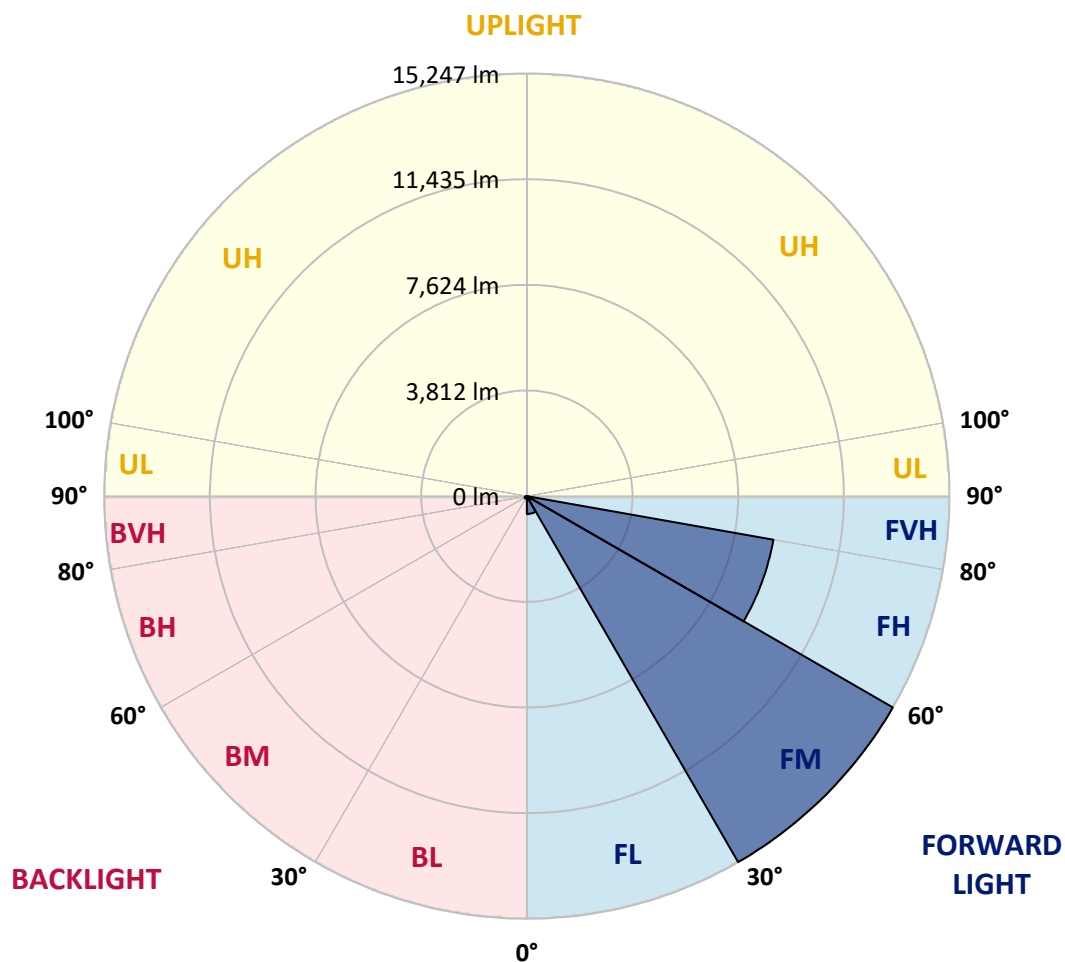
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 643.7   | 2.6       |                         |      |          |
| FM   | (30°-60°)   | 15247.2 | 60.6      |                         |      |          |
| FH   | (60°-80°)   | 9032.6  | 35.9      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 45.3    | 0.2       |                         |      | G1/100   |
| BL   | (0°-30°)    | 16.8    | 0.1       | B0/110                  |      |          |
| BM   | (30°-60°)   | 94.0    | 0.4       | B0/220                  |      |          |
| BH   | (60°-80°)   | 58.6    | 0.2       | B0/110                  |      | G0/110   |
| BVH  | (80°-90°)   | 2.3     | 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°    | 110.2  | 110.2  | 110.2   | 110.2   | 110.2   | 110.2   | 110.2   | 110.2   | 110.2   | 110.2   |
| 2.5°  | 142.4  | 142.4  | 136.7   | 129.1   | 121.5   | 113.9   | 112.1   | 108.3   | 106.4   | 104.5   |
| 5°    | 148.1  | 148.1  | 146.2   | 140.5   | 132.9   | 127.2   | 127.2   | 121.5   | 117.7   | 113.9   |
| 7.5°  | 151.9  | 153.8  | 157.6   | 155.7   | 151.9   | 146.2   | 146.2   | 142.4   | 136.7   | 127.2   |
| 10°   | 157.6  | 163.3  | 170.9   | 174.7   | 176.6   | 176.6   | 174.7   | 172.8   | 163.3   | 150.0   |
| 12.5° | 163.3  | 174.7  | 193.7   | 212.7   | 224.1   | 239.3   | 237.4   | 233.6   | 208.9   | 180.4   |
| 15°   | 174.7  | 191.8  | 231.7   | 286.8   | 372.2   | 425.4   | 446.3   | 427.3   | 345.6   | 243.1   |
| 17.5° | 188.0  | 216.5  | 336.2   | 600.1   | 983.8   | 1166.1  | 1276.2  | 1187.0  | 786.3   | 461.5   |
| 20°   | 201.3  | 264.0  | 624.8   | 1555.4  | 2552.5  | 3148.8  | 3314.0  | 3055.7  | 1961.8  | 879.3   |
| 22.5° | 224.1  | 370.3  | 1266.7  | 3215.3  | 5500.0  | 6394.5  | 6563.5  | 5737.4  | 3705.3  | 1735.8  |
| 25°   | 271.6  | 537.5  | 2184.0  | 5239.8  | 8208.2  | 9718.0  | 9647.7  | 8565.2  | 6010.8  | 2772.8  |
| 27.5° | 339.9  | 782.5  | 3302.6  | 7444.7  | 10802.4 | 12133.7 | 12293.2 | 10954.3 | 8012.5  | 4077.5  |
| 30°   | 438.7  | 1084.4 | 4502.9  | 9210.9  | 12882.0 | 14321.5 | 14348.1 | 12963.6 | 9803.4  | 5222.7  |
| 32.5° | 533.7  | 1369.3 | 5553.1  | 10918.3 | 14931.2 | 16509.4 | 16627.1 | 14923.6 | 11140.5 | 6415.4  |
| 35°   | 605.8  | 1555.4 | 6616.7  | 12418.6 | 16997.5 | 19172.0 | 19164.4 | 17141.8 | 12724.4 | 7480.8  |
| 37.5° | 611.5  | 1741.5 | 7579.5  | 13953.1 | 19614.5 | 22049.2 | 22290.4 | 20060.8 | 14638.7 | 8798.8  |
| 40°   | 598.2  | 1950.4 | 8798.8  | 16346.0 | 24330.1 | 28065.7 | 28278.4 | 25467.7 | 18478.8 | 11055.0 |
| 42.5° | 613.4  | 2313.2 | 10777.7 | 20765.4 | 32160.3 | 37525.4 | 37935.7 | 34980.6 | 25538.0 | 15658.5 |
| 45°   | 693.2  | 2995.0 | 14923.6 | 28158.8 | 43321.7 | 49862.4 | 49725.6 | 45469.6 | 33751.8 | 22666.4 |
| 47.5° | 957.2  | 4664.3 | 21069.2 | 35354.7 | 50454.9 | 56279.6 | 56397.4 | 51195.6 | 38545.3 | 28054.3 |
| 50°   | 1471.8 | 7137.0 | 26233.1 | 39158.7 | 53522.0 | 59365.7 | 59255.6 | 53244.8 | 40366.6 | 30707.5 |
| 52.5° | 1914.4 | 8926.0 | 28823.5 | 40493.8 | 53915.2 | 60890.8 | 60883.2 | 53784.1 | 40649.6 | 30935.4 |
| 55°   | 2024.5 | 9060.9 | 28844.4 | 40566.0 | 54796.4 | 62886.8 | 63137.5 | 55111.6 | 41016.1 | 29940.2 |
| 57.5° | 1980.8 | 8022.0 | 27640.3 | 40983.8 | 56365.1 | 64430.8 | 64444.1 | 56397.4 | 41946.7 | 29330.6 |
| 58°   | 1942.8 | 7858.7 | 27397.2 | 41221.2 | 56634.8 | 64495.4 | 64463.1 | 56456.2 | 42704.4 | 29307.8 |
| 60°   | 1730.1 | 6823.7 | 26449.6 | 41827.0 | 56234.0 | 63169.8 | 62867.8 | 55170.5 | 42592.4 | 29074.2 |
| 62.5° | 1359.8 | 5323.3 | 25517.1 | 41126.2 | 51938.1 | 56752.5 | 56877.9 | 48844.4 | 38828.3 | 27712.5 |
| 65°   | 1082.5 | 3967.3 | 23572.3 | 36074.5 | 42769.0 | 46605.3 | 47072.5 | 39719.0 | 32409.1 | 23466.0 |
| 67.5° | 862.2  | 2867.7 | 19774.0 | 28721.0 | 33843.0 | 38896.6 | 39236.6 | 33347.3 | 25108.8 | 17979.3 |
| 70°   | 700.8  | 1939.0 | 13649.2 | 21004.7 | 27913.8 | 33596.1 | 33617.0 | 27703.0 | 18740.9 | 11780.5 |
| 72.5° | 621.0  | 1342.7 | 7923.3  | 15318.6 | 22634.2 | 27376.3 | 26823.7 | 22480.3 | 14403.2 | 6977.5  |
| 75°   | 537.5  | 890.7  | 3885.7  | 9364.7  | 13723.3 | 13816.4 | 14027.2 | 10428.3 | 7199.7  | 3317.8  |
| 77.5° | 442.5  | 632.4  | 1530.7  | 2558.2  | 4115.5  | 5268.3  | 5463.9  | 4140.2  | 2394.8  | 816.6   |
| 80°   | 303.9  | 300.1  | 412.1   | 784.4   | 1177.5  | 1475.6  | 1376.9  | 1065.4  | 626.7   | 313.4   |
| 82.5° | 131.0  | 142.4  | 186.1   | 224.1   | 182.3   | 176.6   | 169.0   | 108.3   | 83.6    | 64.6    |
| 85°   | 41.8   | 38.0   | 39.9    | 39.9    | 32.3    | 24.7    | 24.7    | 11.4    | 0.0     | 0.0     |
| 87.5° | 20.9   | 17.1   | 17.1    | 15.2    | 9.5     | 3.8     | 1.9     | 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°  |
|---------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110.2   | 0°    | 110.2  | 110.2  | 110.2 | 110.2 | 110.2 | 110.2 | 110.2 | 110.2 | 110.2 | 110.2 |
| 102.6   | 2.5°  | 100.7  | 100.7  | 96.9  | 93.1  | 91.2  | 87.4  | 85.5  | 83.6  | 81.7  | 79.8  |
| 110.2   | 5°    | 106.4  | 104.5  | 98.8  | 93.1  | 87.4  | 81.7  | 77.9  | 74.1  | 70.3  | 68.4  |
| 121.5   | 7.5°  | 115.8  | 112.1  | 100.7 | 91.2  | 83.6  | 76.0  | 72.2  | 66.5  | 62.7  | 57.0  |
| 134.8   | 10°   | 127.2  | 119.6  | 104.5 | 93.1  | 81.7  | 72.2  | 66.5  | 60.8  | 55.1  | 47.5  |
| 153.8   | 12.5° | 142.4  | 129.1  | 110.2 | 91.2  | 77.9  | 66.5  | 60.8  | 53.2  | 47.5  | 41.8  |
| 178.5   | 15°   | 155.7  | 138.6  | 112.1 | 91.2  | 74.1  | 60.8  | 53.2  | 45.6  | 39.9  | 32.3  |
| 224.1   | 17.5° | 174.7  | 146.2  | 110.2 | 85.5  | 68.4  | 53.2  | 45.6  | 39.9  | 30.4  | 19.0  |
| 332.4   | 20°   | 207.0  | 151.9  | 106.4 | 79.8  | 58.9  | 43.7  | 34.2  | 26.6  | 13.3  | 3.8   |
| 499.5   | 22.5° | 258.3  | 167.1  | 102.6 | 72.2  | 51.3  | 34.2  | 22.8  | 9.5   | 0.0   | 0.0   |
| 759.7   | 25°   | 357.0  | 193.7  | 102.6 | 68.4  | 45.6  | 24.7  | 7.6   | 0.0   | 0.0   | 0.0   |
| 1078.7  | 27.5° | 474.8  | 229.8  | 102.6 | 58.9  | 36.1  | 13.3  | 0.0   | 0.0   | 0.0   | 0.0   |
| 1469.9  | 30°   | 594.4  | 269.7  | 102.6 | 51.3  | 28.5  | 1.9   | 0.0   | 0.0   | 0.0   | 0.0   |
| 1809.9  | 32.5° | 708.4  | 303.9  | 104.5 | 43.7  | 19.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 2280.9  | 35°   | 824.2  | 309.6  | 102.6 | 38.0  | 11.4  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 2858.2  | 37.5° | 972.4  | 298.2  | 96.9  | 34.2  | 5.7   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 3760.3  | 40°   | 1196.5 | 303.9  | 91.2  | 32.3  | 1.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 5368.9  | 42.5° | 1610.5 | 328.6  | 83.6  | 32.3  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 8551.9  | 45°   | 2784.2 | 440.6  | 76.0  | 34.2  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 12838.3 | 47.5° | 4605.5 | 791.9  | 74.1  | 34.2  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 15464.8 | 50°   | 5877.9 | 997.1  | 77.9  | 36.1  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 15793.4 | 52.5° | 5868.4 | 1111.0 | 81.7  | 38.0  | 7.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 14557.0 | 55°   | 5217.0 | 1131.9 | 87.4  | 41.8  | 24.7  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 12509.7 | 57.5° | 4360.5 | 1033.1 | 100.7 | 51.3  | 45.6  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 12188.8 | 58°   | 4208.5 | 987.6  | 104.5 | 53.2  | 49.4  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 10572.6 | 60°   | 3448.9 | 805.2  | 132.9 | 66.5  | 66.5  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 8667.8  | 62.5° | 2381.5 | 702.7  | 151.9 | 85.5  | 68.4  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 6390.7  | 65°   | 1684.6 | 634.3  | 165.2 | 91.2  | 55.1  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 4540.9  | 67.5° | 1259.1 | 584.9  | 182.3 | 93.1  | 28.5  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 2848.7  | 70°   | 964.8  | 548.9  | 224.1 | 98.8  | 7.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 1697.8  | 72.5° | 786.3  | 507.1  | 271.6 | 102.6 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 1017.9  | 75°   | 651.4  | 457.7  | 262.1 | 112.1 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 543.2   | 77.5° | 433.0  | 355.1  | 239.3 | 112.1 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 193.7   | 80°   | 151.9  | 140.5  | 186.1 | 98.8  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 39.9    | 82.5° | 22.8   | 19.0   | 26.6  | 34.2  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0     | 85°   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0     | 87.5° | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0     | 90°   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

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**CANDELA DISTRIBUTION (continued):**

| 180°  |       | 185°  | 195°  | 205°  | 215°  | 225°  | 235°  | 245°  | 255°  | 265°  | 270°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110.2 | 0°    | 110.2 | 110.2 | 110.2 | 110.2 | 110.2 | 110.2 | 110.2 | 110.2 | 110.2 | 110.2 |
| 77.9  | 2.5°  | 77.9  | 77.9  | 76.0  | 77.9  | 77.9  | 81.7  | 91.2  | 104.5 | 119.6 | 125.3 |
| 66.5  | 5°    | 64.6  | 62.7  | 60.8  | 60.8  | 60.8  | 66.5  | 74.1  | 89.3  | 106.4 | 113.9 |
| 55.1  | 7.5°  | 53.2  | 51.3  | 49.4  | 47.5  | 47.5  | 51.3  | 60.8  | 77.9  | 95.0  | 102.6 |
| 45.6  | 10°   | 43.7  | 39.9  | 38.0  | 36.1  | 36.1  | 39.9  | 49.4  | 66.5  | 85.5  | 93.1  |
| 38.0  | 12.5° | 36.1  | 30.4  | 26.6  | 24.7  | 22.8  | 28.5  | 38.0  | 53.2  | 74.1  | 83.6  |
| 28.5  | 15°   | 24.7  | 19.0  | 13.3  | 11.4  | 9.5   | 15.2  | 24.7  | 41.8  | 62.7  | 74.1  |
| 15.2  | 17.5° | 13.3  | 5.7   | 1.9   | 0.0   | 0.0   | 3.8   | 11.4  | 30.4  | 51.3  | 60.8  |
| 0.0   | 20°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 15.2  | 38.0  | 47.5  |
| 0.0   | 22.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 1.9   | 22.8  | 32.3  |
| 0.0   | 25°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 9.5   | 17.1  |
| 0.0   | 27.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 3.8   |
| 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   | 5.7   |
| 0.0   | 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 7.6   | 15.2  |
| 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: P1049923

CATALOG NUMBER: GALN-SA8C-927-U-LBC

**CANDELA DISTRIBUTION (continued):**

| 275°  |       | 285°  | 295°  | 305°  | 315°  | 316°  | 325°  | 335°  | 345°  | 355°  | 360°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 110.2 | 0°    | 110.2 | 110.2 | 110.2 | 110.2 | 110.2 | 110.2 | 110.2 | 110.2 | 110.2 | 110.2  |
| 131.0 | 2.5°  | 134.8 | 132.9 | 129.1 | 125.3 | 125.3 | 125.3 | 131.0 | 136.7 | 142.4 | 142.4  |
| 117.7 | 5°    | 125.3 | 125.3 | 123.4 | 119.6 | 119.6 | 121.5 | 129.1 | 138.6 | 146.2 | 148.1  |
| 108.3 | 7.5°  | 115.8 | 119.6 | 115.8 | 113.9 | 115.8 | 117.7 | 125.3 | 136.7 | 148.1 | 151.9  |
| 100.7 | 10°   | 110.2 | 112.1 | 112.1 | 110.2 | 110.2 | 113.9 | 121.5 | 136.7 | 151.9 | 157.6  |
| 91.2  | 12.5° | 102.6 | 106.4 | 104.5 | 104.5 | 104.5 | 108.3 | 117.7 | 134.8 | 155.7 | 163.3  |
| 81.7  | 15°   | 95.0  | 100.7 | 100.7 | 98.8  | 98.8  | 100.7 | 113.9 | 132.9 | 161.4 | 174.7  |
| 70.3  | 17.5° | 87.4  | 93.1  | 95.0  | 91.2  | 91.2  | 95.0  | 108.3 | 132.9 | 165.2 | 188.0  |
| 57.0  | 20°   | 72.2  | 81.7  | 87.4  | 81.7  | 81.7  | 85.5  | 98.8  | 125.3 | 167.1 | 201.3  |
| 41.8  | 22.5° | 57.0  | 66.5  | 74.1  | 72.2  | 72.2  | 74.1  | 91.2  | 119.6 | 169.0 | 224.1  |
| 24.7  | 25°   | 41.8  | 51.3  | 57.0  | 60.8  | 60.8  | 66.5  | 83.6  | 115.8 | 176.6 | 271.6  |
| 11.4  | 27.5° | 24.7  | 36.1  | 43.7  | 47.5  | 49.4  | 57.0  | 77.9  | 112.1 | 189.9 | 339.9  |
| 0.0   | 30°   | 11.4  | 20.9  | 30.4  | 38.0  | 38.0  | 51.3  | 72.2  | 108.3 | 207.0 | 438.7  |
| 0.0   | 32.5° | 0.0   | 9.5   | 15.2  | 26.6  | 28.5  | 41.8  | 66.5  | 104.5 | 231.7 | 533.7  |
| 0.0   | 35°   | 0.0   | 0.0   | 7.6   | 20.9  | 20.9  | 34.2  | 60.8  | 100.7 | 269.7 | 605.8  |
| 0.0   | 37.5° | 0.0   | 0.0   | 0.0   | 15.2  | 17.1  | 30.4  | 58.9  | 98.8  | 277.3 | 611.5  |
| 0.0   | 40°   | 0.0   | 0.0   | 0.0   | 11.4  | 13.3  | 28.5  | 58.9  | 100.7 | 250.7 | 598.2  |
| 0.0   | 42.5° | 0.0   | 0.0   | 0.0   | 7.6   | 9.5   | 28.5  | 58.9  | 104.5 | 226.0 | 613.4  |
| 0.0   | 45°   | 0.0   | 0.0   | 0.0   | 5.7   | 7.6   | 30.4  | 57.0  | 102.6 | 212.7 | 693.2  |
| 0.0   | 47.5° | 0.0   | 0.0   | 0.0   | 7.6   | 11.4  | 30.4  | 55.1  | 100.7 | 214.6 | 957.2  |
| 0.0   | 50°   | 0.0   | 0.0   | 0.0   | 9.5   | 13.3  | 30.4  | 57.0  | 96.9  | 235.5 | 1471.8 |
| 0.0   | 52.5° | 0.0   | 0.0   | 0.0   | 7.6   | 11.4  | 34.2  | 62.7  | 95.0  | 256.4 | 1914.4 |
| 0.0   | 55°   | 0.0   | 0.0   | 0.0   | 1.9   | 5.7   | 43.7  | 68.4  | 95.0  | 288.7 | 2024.5 |
| 0.0   | 57.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 49.4  | 77.9  | 100.7 | 341.8 | 1980.8 |
| 0.0   | 58°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 49.4  | 79.8  | 100.7 | 345.6 | 1942.8 |
| 0.0   | 60°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 49.4  | 87.4  | 112.1 | 372.2 | 1730.1 |
| 0.0   | 62.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 41.8  | 104.5 | 140.5 | 387.4 | 1359.8 |
| 0.0   | 65°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 34.2  | 123.4 | 153.8 | 398.8 | 1082.5 |
| 0.0   | 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 32.3  | 127.2 | 155.7 | 404.5 | 862.2  |
| 0.0   | 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 34.2  | 125.3 | 167.1 | 423.5 | 700.8  |
| 0.0   | 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 38.0  | 113.9 | 184.2 | 423.5 | 621.0  |
| 0.0   | 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 39.9  | 106.4 | 207.0 | 385.5 | 537.5  |
| 0.0   | 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 38.0  | 104.5 | 241.2 | 343.7 | 442.5  |
| 0.0   | 80°   | 3.8   | 5.7   | 5.7   | 3.8   | 3.8   | 32.3  | 102.6 | 245.0 | 292.5 | 303.9  |
| 1.9   | 82.5° | 11.4  | 15.2  | 13.3  | 9.5   | 9.5   | 28.5  | 91.2  | 205.1 | 151.9 | 131.0  |
| 11.4  | 85°   | 20.9  | 24.7  | 24.7  | 20.9  | 20.9  | 26.6  | 57.0  | 74.1  | 51.3  | 41.8   |
| 20.9  | 87.5° | 28.5  | 32.3  | 32.3  | 28.5  | 28.5  | 26.6  | 24.7  | 22.8  | 20.9  | 20.9   |
| 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: SP1-2407-184-13

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-927-U-5WQ

Data in this report applies to families of products including GSS-SB1A-927-U-5WQ

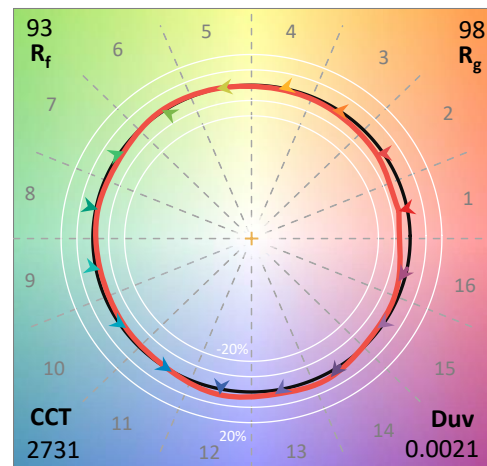
### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2407-184-13  
 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-927-U-5WQ**  
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI  
 2700K CCT 26 LEDS

### Spectral Parameters

CCT (K): 2731  
 CIE  $u'$ : 0.2605  
 CIE  $v'$ : 0.5298  
 Duv: 0.0021  
 CIE x: 0.4610  
 CIE y: 0.4166  
 CIE z: 0.1224  
 Peak Wavelength (nm): 622  
 Dominant Wavelength (nm): 583  
 Purity: 63.43685  
 R<sub>f</sub>: 92.6  
 R<sub>g</sub>: 98

CRI (Ra): 91.8  
 R1: 91.4  
 R2: 95.1  
 R3: 97.6  
 R4: 92.3  
 R5: 91.1  
 R6: 94.7  
 R7: 92.3  
 R8: 80.0  
 R9: 54.7  
 R10: 87.7  
 R11: 92.9  
 R12: 84.0  
 R13: 92.2  
 R14: 97.8  
 R15: 86.8



### Test Conditions

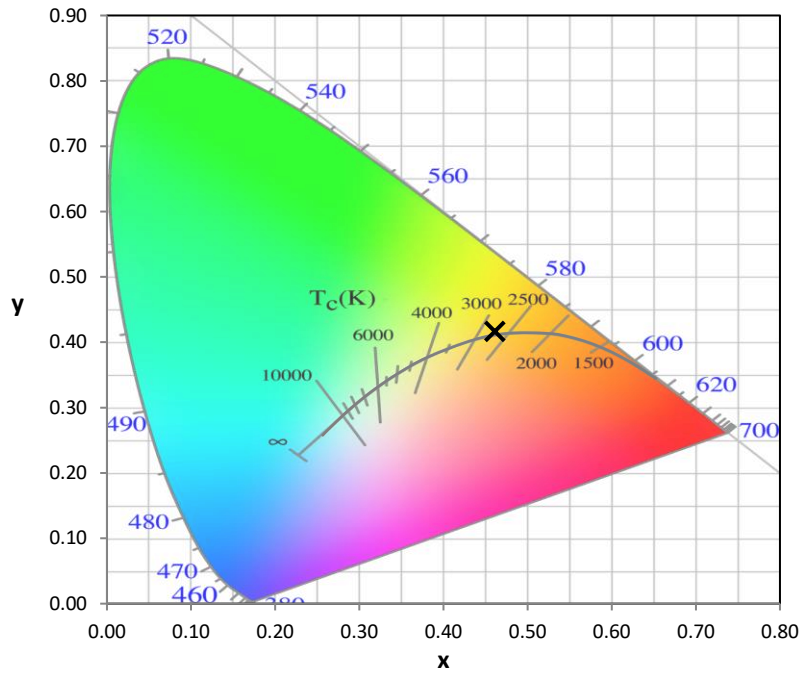
Stabilization Time: M  
 Operation Time: 1H 0M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-13

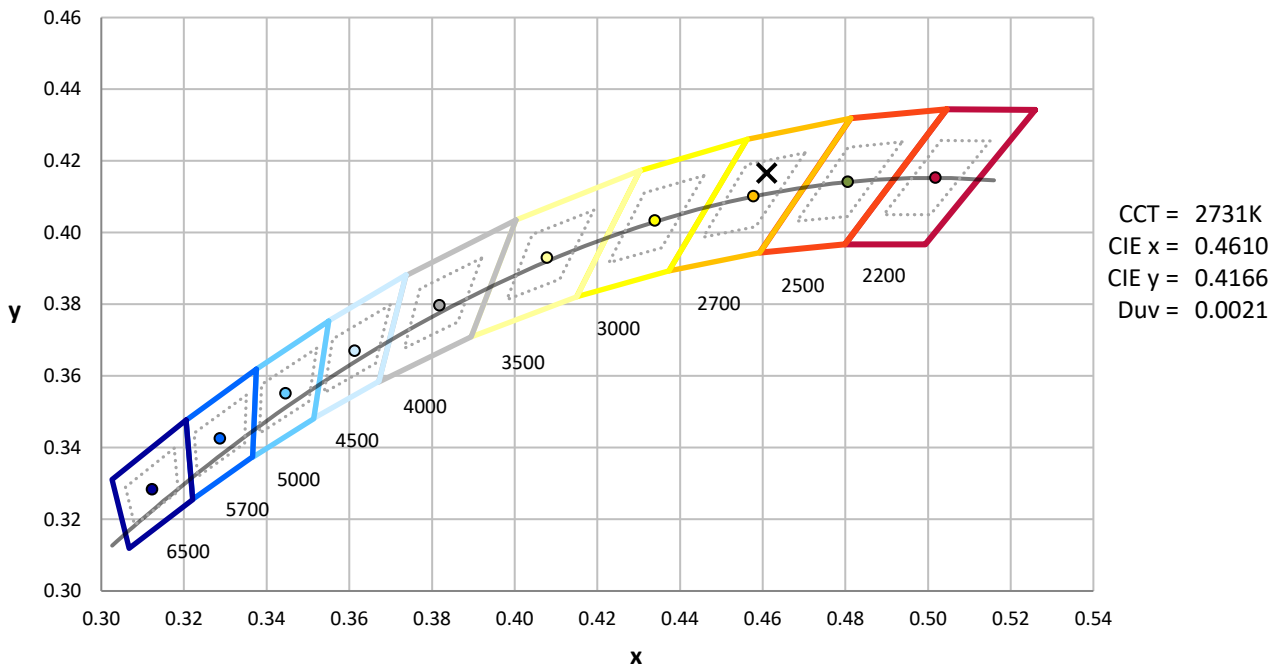
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| 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: SP1-2407-184-13

**CIE 1931 Chromaticity Diagram**



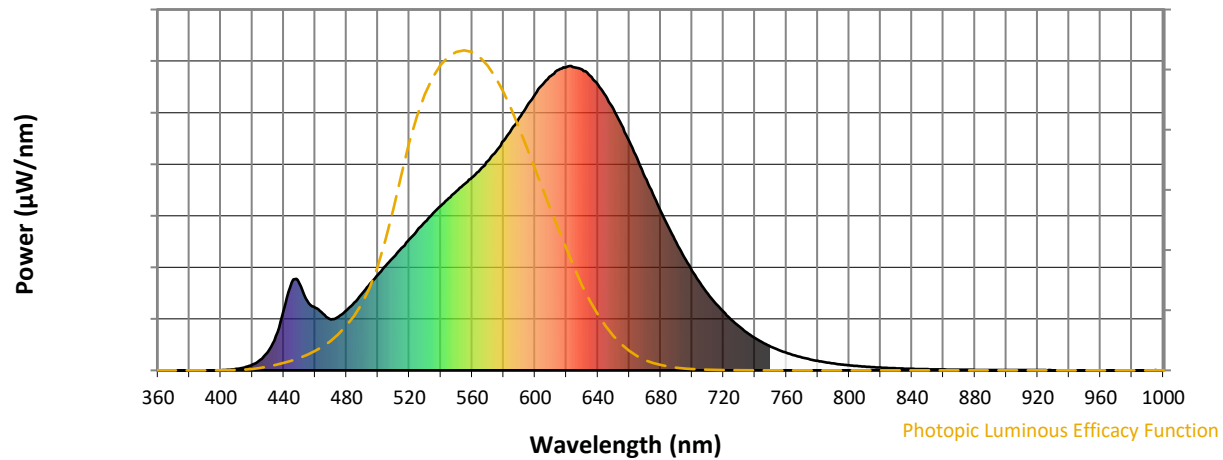
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-13

### Photopic Flux vs. Wavelength

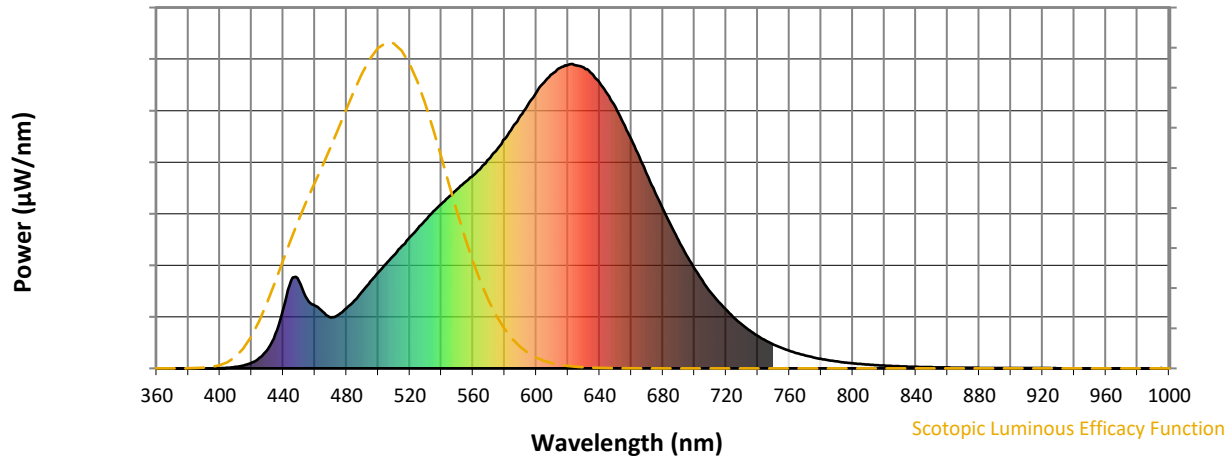


### Photopic Lumens: NR

| $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) |
|-------------------|----------------------------------------|--------------------------------|-------------------|----------------------------------------|--------------------------------|-------------------|----------------------------------------|--------------------------------|-------------------|----------------------------------------|--------------------------------|-------------------|----------------------------------------|--------------------------------|
| 360               | 0                                      | NR                             | 490               | 253                                    | NR                             | 620               | 997                                    | NR                             | 750               | 78                                     | NR                             | 880               | 2                                      | NR                             |
| 365               | 0                                      | NR                             | 495               | 285                                    | NR                             | 625               | 996                                    | NR                             | 755               | 67                                     | NR                             | 885               | 1                                      | NR                             |
| 370               | 0                                      | NR                             | 500               | 314                                    | NR                             | 630               | 989                                    | NR                             | 760               | 58                                     | NR                             | 890               | 1                                      | NR                             |
| 375               | 0                                      | NR                             | 505               | 343                                    | NR                             | 635               | 969                                    | NR                             | 765               | 50                                     | NR                             | 895               | 1                                      | NR                             |
| 380               | 0                                      | NR                             | 510               | 372                                    | NR                             | 640               | 939                                    | NR                             | 770               | 42                                     | NR                             | 900               | 1                                      | NR                             |
| 385               | 0                                      | NR                             | 515               | 401                                    | NR                             | 645               | 901                                    | NR                             | 775               | 36                                     | NR                             | 905               | 1                                      | NR                             |
| 390               | 0                                      | NR                             | 520               | 431                                    | NR                             | 650               | 858                                    | NR                             | 780               | 31                                     | NR                             | 910               | 1                                      | NR                             |
| 395               | 0                                      | NR                             | 525               | 459                                    | NR                             | 655               | 806                                    | NR                             | 785               | 26                                     | NR                             | 915               | 1                                      | NR                             |
| 400               | 0                                      | NR                             | 530               | 488                                    | NR                             | 660               | 752                                    | NR                             | 790               | 23                                     | NR                             | 920               | 1                                      | NR                             |
| 405               | 2                                      | NR                             | 535               | 516                                    | NR                             | 665               | 696                                    | NR                             | 795               | 19                                     | NR                             | 925               | 1                                      | NR                             |
| 410               | 5                                      | NR                             | 540               | 540                                    | NR                             | 670               | 636                                    | NR                             | 800               | 17                                     | NR                             | 930               | 0                                      | NR                             |
| 415               | 10                                     | NR                             | 545               | 566                                    | NR                             | 675               | 579                                    | NR                             | 805               | 14                                     | NR                             | 935               | 0                                      | NR                             |
| 420               | 19                                     | NR                             | 550               | 589                                    | NR                             | 680               | 524                                    | NR                             | 810               | 12                                     | NR                             | 940               | 0                                      | NR                             |
| 425               | 34                                     | NR                             | 555               | 612                                    | NR                             | 685               | 470                                    | NR                             | 815               | 11                                     | NR                             | 945               | 0                                      | NR                             |
| 430               | 61                                     | NR                             | 560               | 634                                    | NR                             | 690               | 421                                    | NR                             | 820               | 9                                      | NR                             | 950               | 0                                      | NR                             |
| 435               | 113                                    | NR                             | 565               | 660                                    | NR                             | 695               | 371                                    | NR                             | 825               | 8                                      | NR                             | 955               | 0                                      | NR                             |
| 440               | 198                                    | NR                             | 570               | 688                                    | NR                             | 700               | 327                                    | NR                             | 830               | 7                                      | NR                             | 960               | 0                                      | NR                             |
| 445               | 288                                    | NR                             | 575               | 719                                    | NR                             | 705               | 288                                    | NR                             | 835               | 6                                      | NR                             | 965               | 0                                      | NR                             |
| 450               | 286                                    | NR                             | 580               | 754                                    | NR                             | 710               | 251                                    | NR                             | 840               | 5                                      | NR                             | 970               | 0                                      | NR                             |
| 455               | 228                                    | NR                             | 585               | 791                                    | NR                             | 715               | 220                                    | NR                             | 845               | 4                                      | NR                             | 975               | 0                                      | NR                             |
| 460               | 207                                    | NR                             | 590               | 831                                    | NR                             | 720               | 192                                    | NR                             | 850               | 4                                      | NR                             | 980               | 0                                      | NR                             |
| 465               | 186                                    | NR                             | 595               | 870                                    | NR                             | 725               | 166                                    | NR                             | 855               | 3                                      | NR                             | 985               | 0                                      | NR                             |
| 470               | 168                                    | NR                             | 600               | 907                                    | NR                             | 730               | 144                                    | NR                             | 860               | 3                                      | NR                             | 990               | 1                                      | NR                             |
| 475               | 177                                    | NR                             | 605               | 940                                    | NR                             | 735               | 124                                    | NR                             | 865               | 2                                      | NR                             | 995               | 1                                      | NR                             |
| 480               | 198                                    | NR                             | 610               | 967                                    | NR                             | 740               | 106                                    | NR                             | 870               | 2                                      | NR                             | 1000              | 0                                      | NR                             |
| 485               | 223                                    | NR                             | 615               | 988                                    | NR                             | 745               | 91                                     | NR                             | 875               | 2                                      | NR                             |                   |                                        |                                |

REPORT NUMBER: SP1-2407-184-13

### Scotopic Flux vs. Wavelength



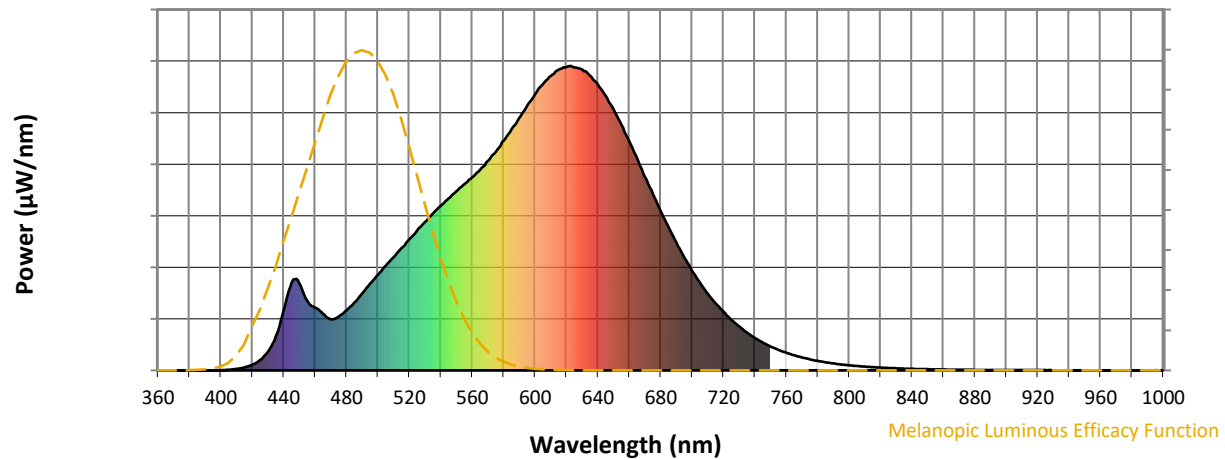
Scotopic Lumens: NR

S/P: 1.27

| $\lambda$<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               | 253                                  | NR                             | 620               | 997                                  | NR                             | 750               | 78                                   | NR                             | 880               | 2                                    | NR                             |
| 365               | 0                                    | NR                             | 495               | 285                                  | NR                             | 625               | 996                                  | NR                             | 755               | 67                                   | NR                             | 885               | 1                                    | NR                             |
| 370               | 0                                    | NR                             | 500               | 314                                  | NR                             | 630               | 989                                  | NR                             | 760               | 58                                   | NR                             | 890               | 1                                    | NR                             |
| 375               | 0                                    | NR                             | 505               | 343                                  | NR                             | 635               | 969                                  | NR                             | 765               | 50                                   | NR                             | 895               | 1                                    | NR                             |
| 380               | 0                                    | NR                             | 510               | 372                                  | NR                             | 640               | 939                                  | NR                             | 770               | 42                                   | NR                             | 900               | 1                                    | NR                             |
| 385               | 0                                    | NR                             | 515               | 401                                  | NR                             | 645               | 901                                  | NR                             | 775               | 36                                   | NR                             | 905               | 1                                    | NR                             |
| 390               | 0                                    | NR                             | 520               | 431                                  | NR                             | 650               | 858                                  | NR                             | 780               | 31                                   | NR                             | 910               | 1                                    | NR                             |
| 395               | 0                                    | NR                             | 525               | 459                                  | NR                             | 655               | 806                                  | NR                             | 785               | 26                                   | NR                             | 915               | 1                                    | NR                             |
| 400               | 0                                    | NR                             | 530               | 488                                  | NR                             | 660               | 752                                  | NR                             | 790               | 23                                   | NR                             | 920               | 1                                    | NR                             |
| 405               | 2                                    | NR                             | 535               | 516                                  | NR                             | 665               | 696                                  | NR                             | 795               | 19                                   | NR                             | 925               | 1                                    | NR                             |
| 410               | 5                                    | NR                             | 540               | 540                                  | NR                             | 670               | 636                                  | NR                             | 800               | 17                                   | NR                             | 930               | 0                                    | NR                             |
| 415               | 10                                   | NR                             | 545               | 566                                  | NR                             | 675               | 579                                  | NR                             | 805               | 14                                   | NR                             | 935               | 0                                    | NR                             |
| 420               | 19                                   | NR                             | 550               | 589                                  | NR                             | 680               | 524                                  | NR                             | 810               | 12                                   | NR                             | 940               | 0                                    | NR                             |
| 425               | 34                                   | NR                             | 555               | 612                                  | NR                             | 685               | 470                                  | NR                             | 815               | 11                                   | NR                             | 945               | 0                                    | NR                             |
| 430               | 61                                   | NR                             | 560               | 634                                  | NR                             | 690               | 421                                  | NR                             | 820               | 9                                    | NR                             | 950               | 0                                    | NR                             |
| 435               | 113                                  | NR                             | 565               | 660                                  | NR                             | 695               | 371                                  | NR                             | 825               | 8                                    | NR                             | 955               | 0                                    | NR                             |
| 440               | 198                                  | NR                             | 570               | 688                                  | NR                             | 700               | 327                                  | NR                             | 830               | 7                                    | NR                             | 960               | 0                                    | NR                             |
| 445               | 288                                  | NR                             | 575               | 719                                  | NR                             | 705               | 288                                  | NR                             | 835               | 6                                    | NR                             | 965               | 0                                    | NR                             |
| 450               | 286                                  | NR                             | 580               | 754                                  | NR                             | 710               | 251                                  | NR                             | 840               | 5                                    | NR                             | 970               | 0                                    | NR                             |
| 455               | 228                                  | NR                             | 585               | 791                                  | NR                             | 715               | 220                                  | NR                             | 845               | 4                                    | NR                             | 975               | 0                                    | NR                             |
| 460               | 207                                  | NR                             | 590               | 831                                  | NR                             | 720               | 192                                  | NR                             | 850               | 4                                    | NR                             | 980               | 0                                    | NR                             |
| 465               | 186                                  | NR                             | 595               | 870                                  | NR                             | 725               | 166                                  | NR                             | 855               | 3                                    | NR                             | 985               | 0                                    | NR                             |
| 470               | 168                                  | NR                             | 600               | 907                                  | NR                             | 730               | 144                                  | NR                             | 860               | 3                                    | NR                             | 990               | 1                                    | NR                             |
| 475               | 177                                  | NR                             | 605               | 940                                  | NR                             | 735               | 124                                  | NR                             | 865               | 2                                    | NR                             | 995               | 1                                    | NR                             |
| 480               | 198                                  | NR                             | 610               | 967                                  | NR                             | 740               | 106                                  | NR                             | 870               | 2                                    | NR                             | 1000              | 0                                    | NR                             |
| 485               | 223                                  | NR                             | 615               | 988                                  | NR                             | 745               | 91                                   | NR                             | 875               | 2                                    | NR                             |                   |                                      |                                |

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### Melanopic Flux vs. Wavelength

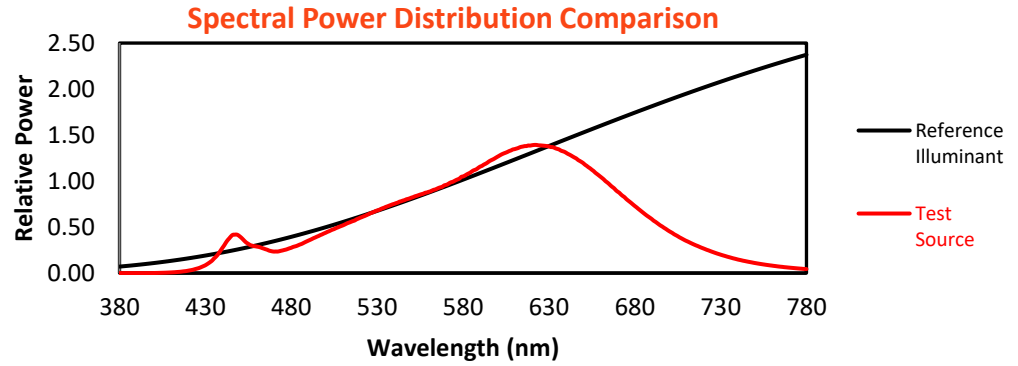
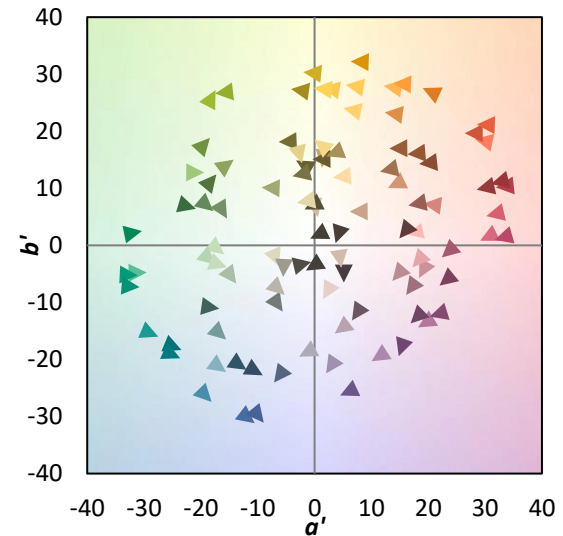
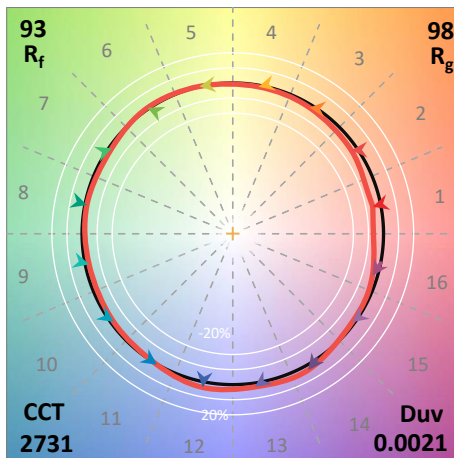
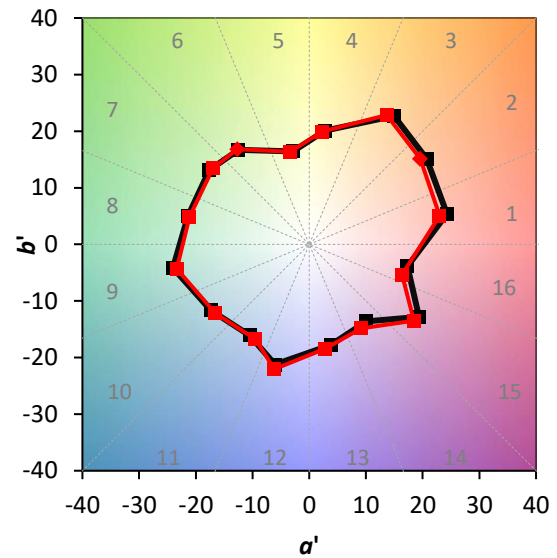
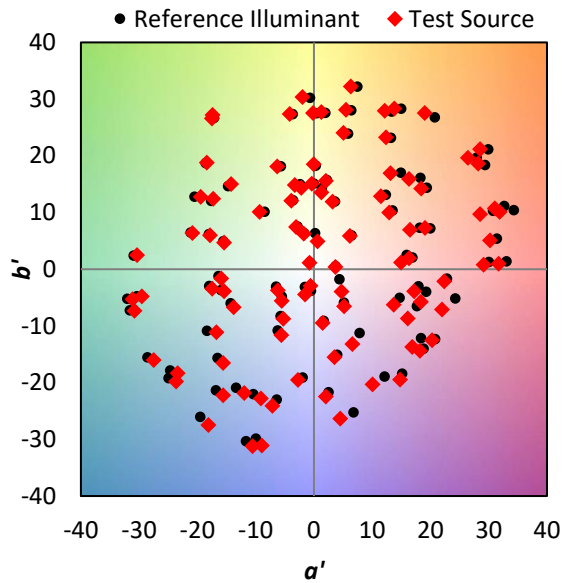


Melanopic Lumens: NR

M/P: 2.38

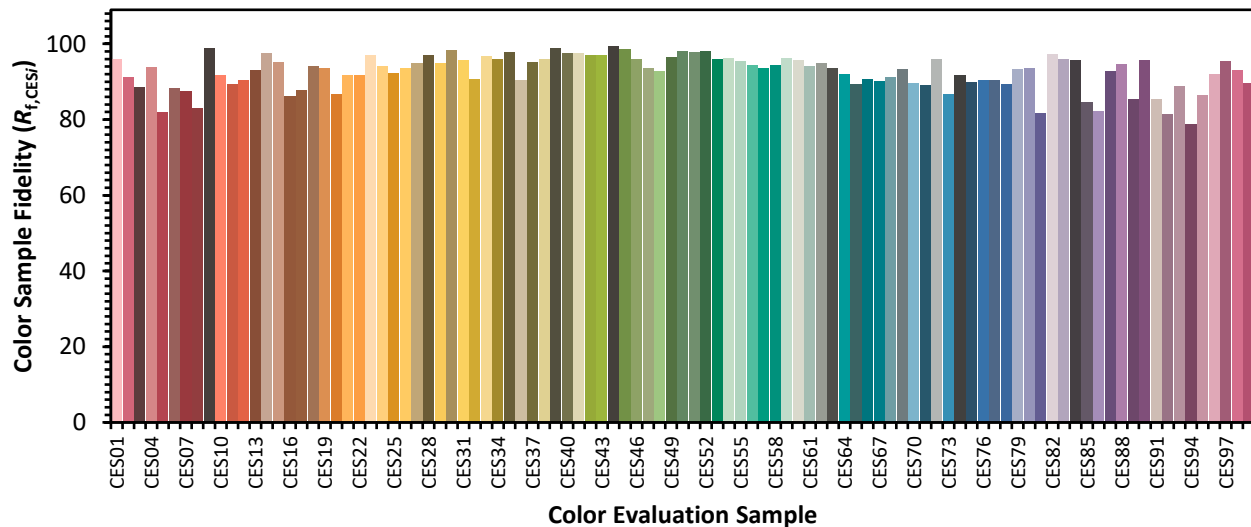
| $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | 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               | 253                                    | NR                             | 620               | 997                                    | NR                             | 750               | 78                                     | NR                             | 880               | 2                                      | NR                             |
| 365               | 0                                      | NR                             | 495               | 285                                    | NR                             | 625               | 996                                    | NR                             | 755               | 67                                     | NR                             | 885               | 1                                      | NR                             |
| 370               | 0                                      | NR                             | 500               | 314                                    | NR                             | 630               | 989                                    | NR                             | 760               | 58                                     | NR                             | 890               | 1                                      | NR                             |
| 375               | 0                                      | NR                             | 505               | 343                                    | NR                             | 635               | 969                                    | NR                             | 765               | 50                                     | NR                             | 895               | 1                                      | NR                             |
| 380               | 0                                      | NR                             | 510               | 372                                    | NR                             | 640               | 939                                    | NR                             | 770               | 42                                     | NR                             | 900               | 1                                      | NR                             |
| 385               | 0                                      | NR                             | 515               | 401                                    | NR                             | 645               | 901                                    | NR                             | 775               | 36                                     | NR                             | 905               | 1                                      | NR                             |
| 390               | 0                                      | NR                             | 520               | 431                                    | NR                             | 650               | 858                                    | NR                             | 780               | 31                                     | NR                             | 910               | 1                                      | NR                             |
| 395               | 0                                      | NR                             | 525               | 459                                    | NR                             | 655               | 806                                    | NR                             | 785               | 26                                     | NR                             | 915               | 1                                      | NR                             |
| 400               | 0                                      | NR                             | 530               | 488                                    | NR                             | 660               | 752                                    | NR                             | 790               | 23                                     | NR                             | 920               | 1                                      | NR                             |
| 405               | 2                                      | NR                             | 535               | 516                                    | NR                             | 665               | 696                                    | NR                             | 795               | 19                                     | NR                             | 925               | 1                                      | NR                             |
| 410               | 5                                      | NR                             | 540               | 540                                    | NR                             | 670               | 636                                    | NR                             | 800               | 17                                     | NR                             | 930               | 0                                      | NR                             |
| 415               | 10                                     | NR                             | 545               | 566                                    | NR                             | 675               | 579                                    | NR                             | 805               | 14                                     | NR                             | 935               | 0                                      | NR                             |
| 420               | 19                                     | NR                             | 550               | 589                                    | NR                             | 680               | 524                                    | NR                             | 810               | 12                                     | NR                             | 940               | 0                                      | NR                             |
| 425               | 34                                     | NR                             | 555               | 612                                    | NR                             | 685               | 470                                    | NR                             | 815               | 11                                     | NR                             | 945               | 0                                      | NR                             |
| 430               | 61                                     | NR                             | 560               | 634                                    | NR                             | 690               | 421                                    | NR                             | 820               | 9                                      | NR                             | 950               | 0                                      | NR                             |
| 435               | 113                                    | NR                             | 565               | 660                                    | NR                             | 695               | 371                                    | NR                             | 825               | 8                                      | NR                             | 955               | 0                                      | NR                             |
| 440               | 198                                    | NR                             | 570               | 688                                    | NR                             | 700               | 327                                    | NR                             | 830               | 7                                      | NR                             | 960               | 0                                      | NR                             |
| 445               | 288                                    | NR                             | 575               | 719                                    | NR                             | 705               | 288                                    | NR                             | 835               | 6                                      | NR                             | 965               | 0                                      | NR                             |
| 450               | 286                                    | NR                             | 580               | 754                                    | NR                             | 710               | 251                                    | NR                             | 840               | 5                                      | NR                             | 970               | 0                                      | NR                             |
| 455               | 228                                    | NR                             | 585               | 791                                    | NR                             | 715               | 220                                    | NR                             | 845               | 4                                      | NR                             | 975               | 0                                      | NR                             |
| 460               | 207                                    | NR                             | 590               | 831                                    | NR                             | 720               | 192                                    | NR                             | 850               | 4                                      | NR                             | 980               | 0                                      | NR                             |
| 465               | 186                                    | NR                             | 595               | 870                                    | NR                             | 725               | 166                                    | NR                             | 855               | 3                                      | NR                             | 985               | 0                                      | NR                             |
| 470               | 168                                    | NR                             | 600               | 907                                    | NR                             | 730               | 144                                    | NR                             | 860               | 3                                      | NR                             | 990               | 1                                      | NR                             |
| 475               | 177                                    | NR                             | 605               | 940                                    | NR                             | 735               | 124                                    | NR                             | 865               | 2                                      | NR                             | 995               | 1                                      | NR                             |
| 480               | 198                                    | NR                             | 610               | 967                                    | NR                             | 740               | 106                                    | NR                             | 870               | 2                                      | NR                             | 1000              | 0                                      | NR                             |
| 485               | 223                                    | NR                             | 615               | 988                                    | NR                             | 745               | 91                                     | NR                             | 875               | 2                                      | NR                             |                   |                                        |                                |

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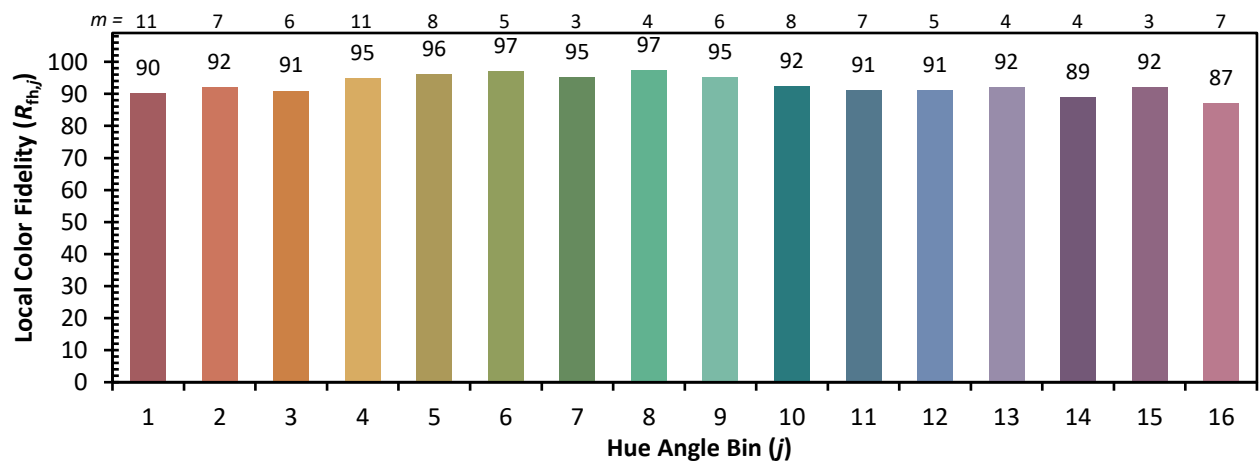
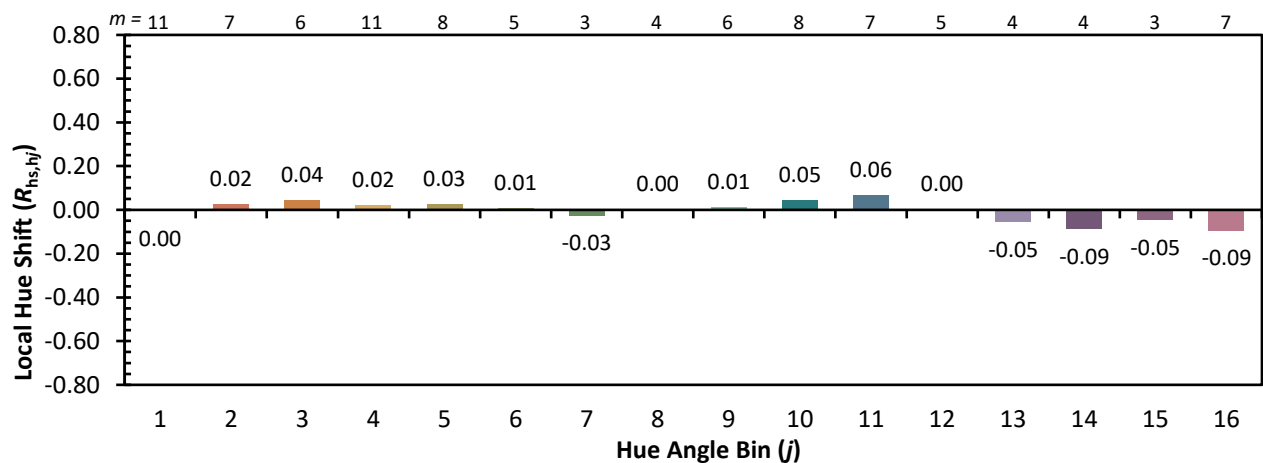
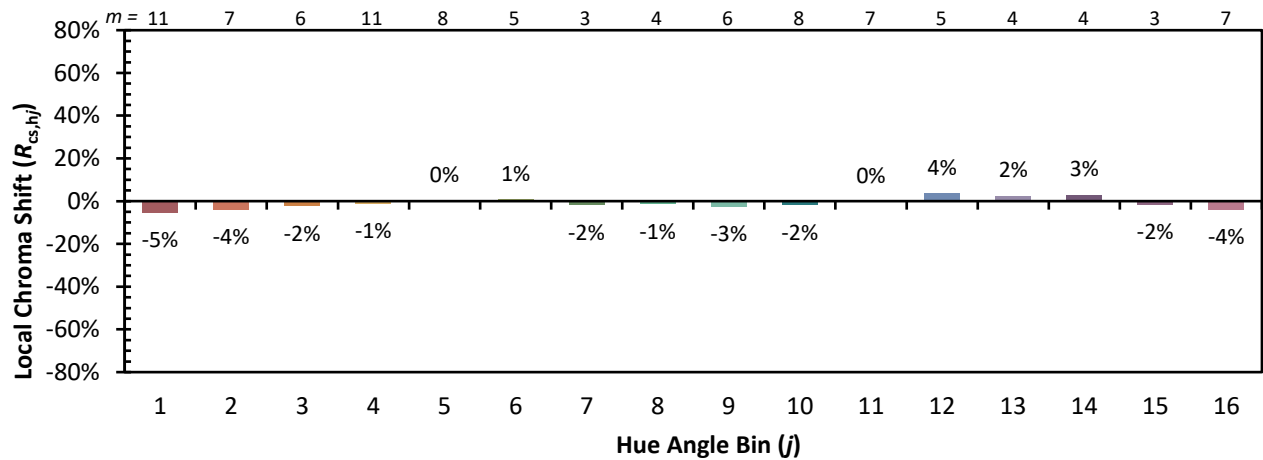
**TM-30-18**
**Summary**
 $R_f = 92.6$   
 $R_g = 98$   
 $CIE\ R_a = 91.8$   
 $R_9 = 54.7$ 

**Color Vector Graphics**


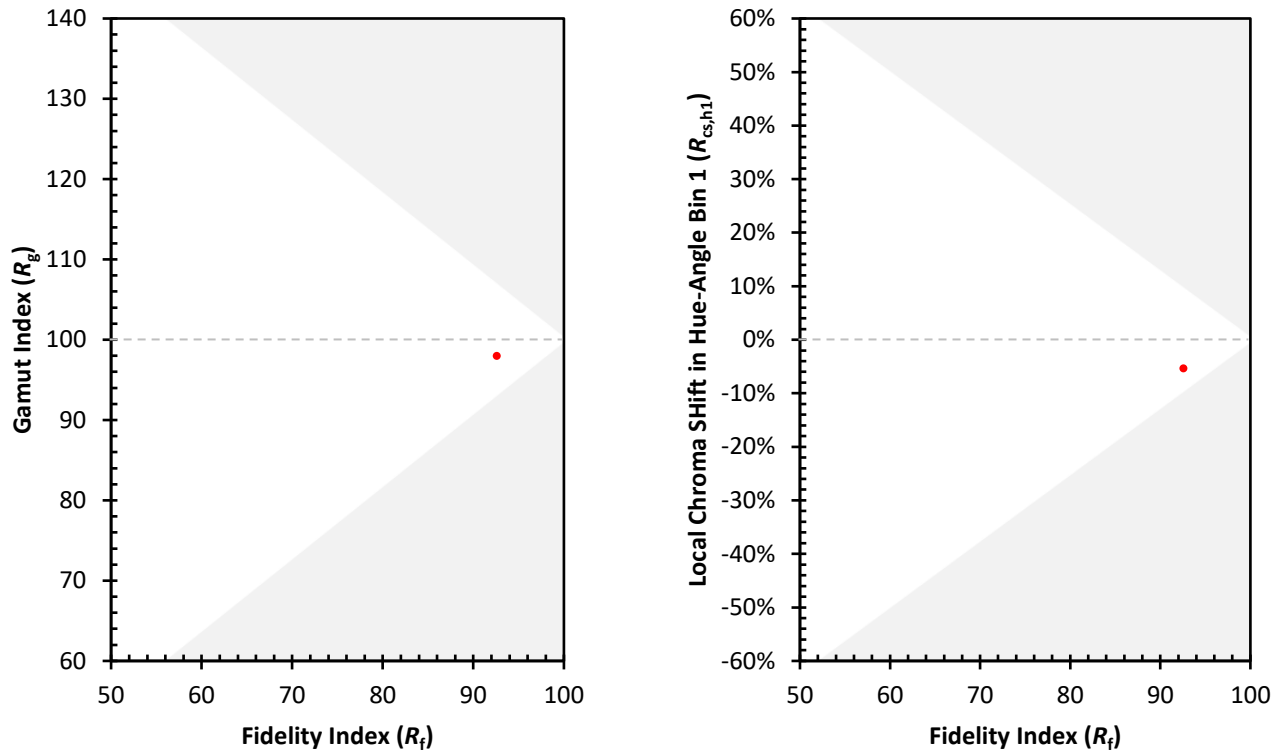
**Individual Sample Fidelity Index ( $R_{f,i}$ )**

|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 94 | CES51 = 98 | CES76 = 90 |
| CES02 = 64 | CES27 = 95 | CES52 = 98 | CES77 = 90 |
| CES03 = 32 | CES28 = 97 | CES53 = 96 | CES78 = 89 |
| CES04 = 71 | CES29 = 95 | CES54 = 96 | CES79 = 93 |
| CES05 = 51 | CES30 = 98 | CES55 = 95 | CES80 = 94 |
| CES06 = 52 | CES31 = 96 | CES56 = 94 | CES81 = 82 |
| CES07 = 44 | CES32 = 91 | CES57 = 94 | CES82 = 97 |
| CES08 = 43 | CES33 = 97 | CES58 = 94 | CES83 = 96 |
| CES09 = 29 | CES34 = 96 | CES59 = 96 | CES84 = 96 |
| CES10 = 77 | CES35 = 98 | CES60 = 96 | CES85 = 85 |
| CES11 = 59 | CES36 = 90 | CES61 = 94 | CES86 = 82 |
| CES12 = 66 | CES37 = 95 | CES62 = 95 | CES87 = 93 |
| CES13 = 44 | CES38 = 96 | CES63 = 94 | CES88 = 95 |
| CES14 = 74 | CES39 = 99 | CES64 = 92 | CES89 = 85 |
| CES15 = 72 | CES40 = 98 | CES65 = 89 | CES90 = 96 |
| CES16 = 48 | CES41 = 98 | CES66 = 91 | CES91 = 85 |
| CES17 = 50 | CES42 = 97 | CES67 = 90 | CES92 = 82 |
| CES18 = 57 | CES43 = 97 | CES68 = 91 | CES93 = 89 |
| CES19 = 72 | CES44 = 99 | CES69 = 93 | CES94 = 79 |
| CES20 = 68 | CES45 = 99 | CES70 = 90 | CES95 = 87 |
| CES21 = 87 | CES46 = 96 | CES71 = 89 | CES96 = 92 |
| CES22 = 79 | CES47 = 94 | CES72 = 96 | CES97 = 96 |
| CES23 = 92 | CES48 = 93 | CES73 = 87 | CES98 = 93 |
| CES24 = 91 | CES49 = 96 | CES74 = 92 | CES99 = 90 |
| CES25 = 72 | CES50 = 98 | CES75 = 90 |            |



Color Rendition by Hue-Angle Bin



**Measure Comparisons**


(END OF REPORT)