

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P1065545

Luminaire Tested: **GLAN-SA5A-927-U-LBC**

Issue Date: 08/07/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1065545  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 08/07/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5A-927-U-LBC  
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 5xLight Square PACKAGE  
90CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (70) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

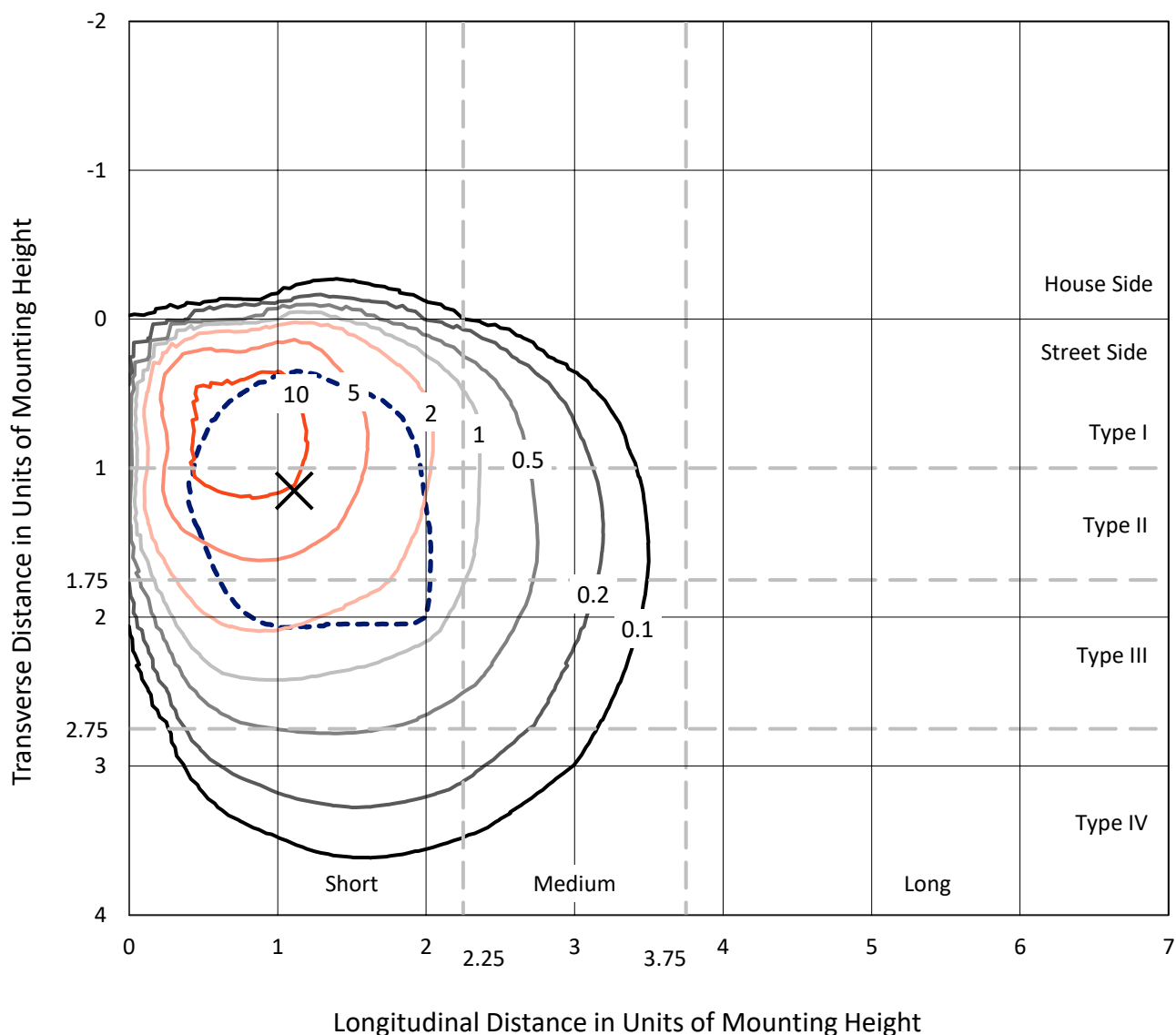
Lumens per Lamp: N/A  
Luminaire Lumens: 10139.7 lumens  
Efficiency: N/A  
Efficacy: 74.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G2

Input Watts (W): 136.6  
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

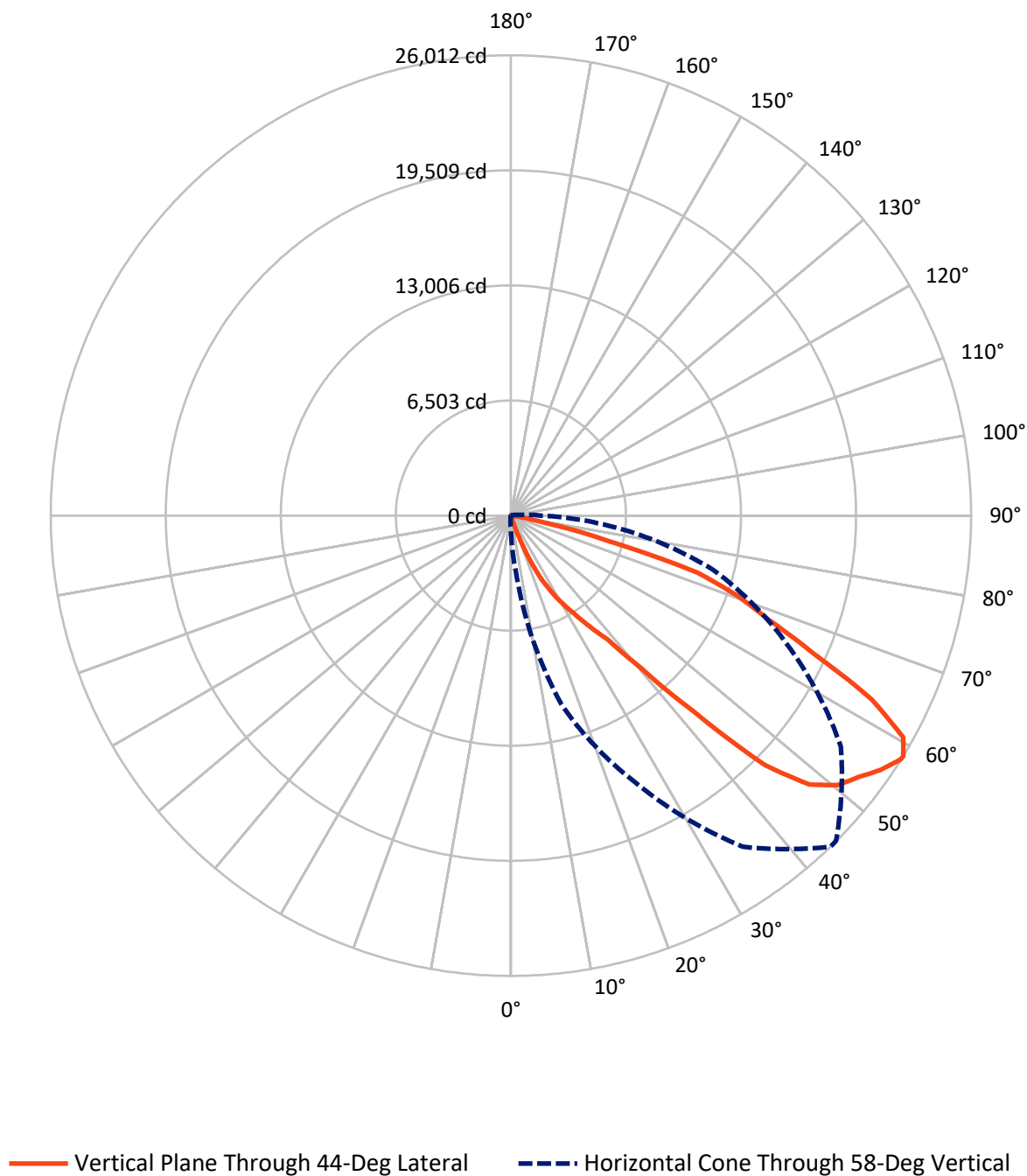
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 17.7 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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CATALOG NUMBER: GLAN-SA5A-927-U-LBC

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 69.2     | 0.0    | 69.2    |
|                    | % Fixture | 0.7      | 0.0    | 0.7     |
| <b>Street Side</b> | Lumens    | 10070.4  | 0.0    | 10070.4 |
|                    | % Fixture | 99.3     | 0.0    | 99.3    |
| <b>Total</b>       | Lumens    | 10139.7  | 0.0    | 10139.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 4.0     | 0.0       |
| 10°-20°   | 22.2    | 0.2       |
| 20°-30°   | 240.2   | 2.4       |
| 30°-40°   | 710.4   | 7.0       |
| 40°-50°   | 2117.3  | 20.9      |
| 50°-60°   | 3359.7  | 33.1      |
| 60°-70°   | 2802.4  | 27.6      |
| 70°-80°   | 864.3   | 8.5       |
| 80°-90°   | 19.2    | 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°    | 10139.7 | 100.0     |
| 0°-180°   | 10139.7 | 100.0     |



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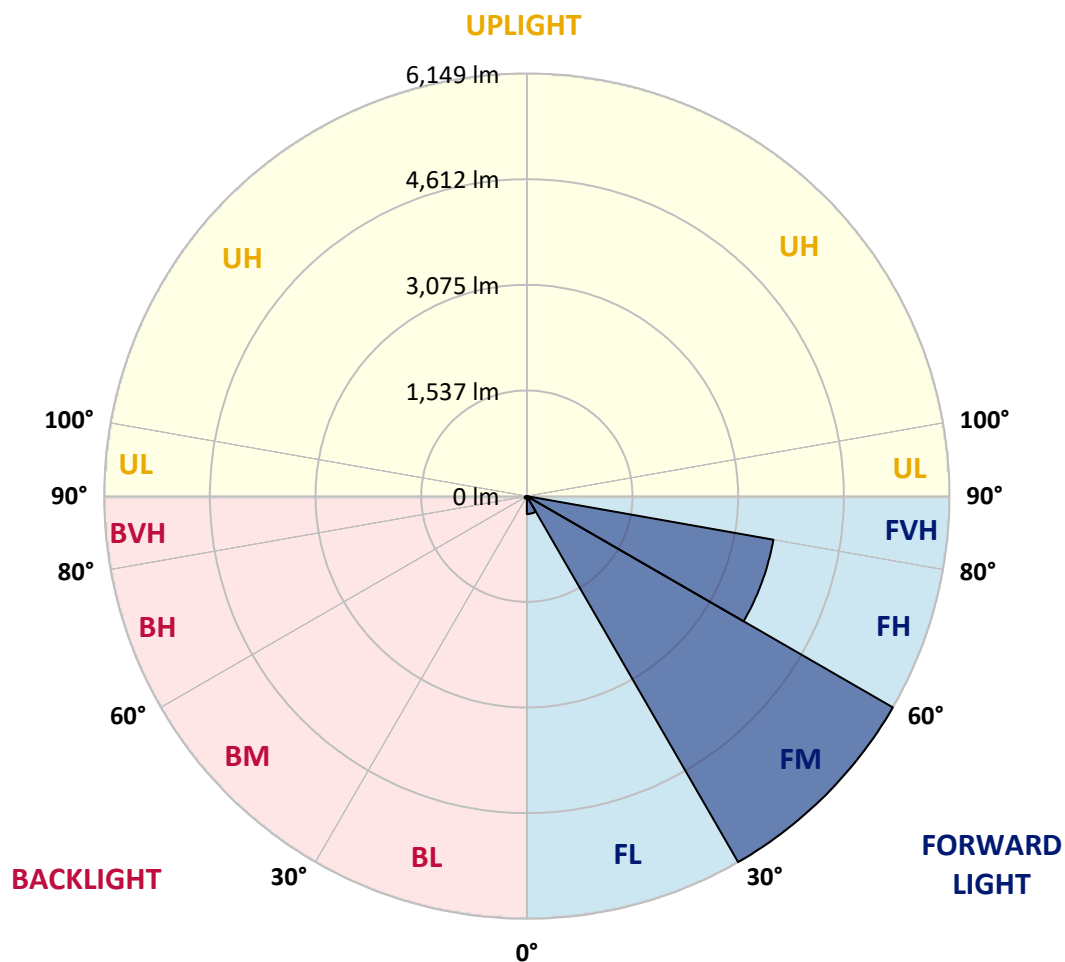
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 259.6  | 2.6       |                         |      |         |
| FM   | (30°-60°)   | 6149.5 | 60.6      |                         |      |         |
| FH   | (60°-80°)   | 3643.0 | 35.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 18.3   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 6.8    | 0.1       | B0/110                  |      |         |
| BM   | (30°-60°)   | 37.9   | 0.4       | B0/220                  |      |         |
| BH   | (60°-80°)   | 23.6   | 0.2       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.9    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G2**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°     | 15°     | 25°     | 35°     | 44°     | 45°     | 55°     | 65°     | 75°     |
|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 44.4  | 44.4   | 44.4    | 44.4    | 44.4    | 44.4    | 44.4    | 44.4    | 44.4    | 44.4    |
| 2.5°  | 57.4  | 57.4   | 55.1    | 52.1    | 49.0    | 46.0    | 45.2    | 43.7    | 42.9    | 42.1    |
| 5°    | 59.7  | 59.7   | 59.0    | 56.7    | 53.6    | 51.3    | 51.3    | 49.0    | 47.5    | 46.0    |
| 7.5°  | 61.3  | 62.0   | 63.6    | 62.8    | 61.3    | 59.0    | 59.0    | 57.4    | 55.1    | 51.3    |
| 10°   | 63.6  | 65.9   | 68.9    | 70.5    | 71.2    | 71.2    | 70.5    | 69.7    | 65.9    | 60.5    |
| 12.5° | 65.9  | 70.5   | 78.1    | 85.8    | 90.4    | 96.5    | 95.7    | 94.2    | 84.3    | 72.8    |
| 15°   | 70.5  | 77.4   | 93.4    | 115.7   | 150.1   | 171.6   | 180.0   | 172.3   | 139.4   | 98.0    |
| 17.5° | 75.8  | 87.3   | 135.6   | 242.0   | 396.8   | 470.3   | 514.7   | 478.7   | 317.1   | 186.1   |
| 20°   | 81.2  | 106.5  | 252.0   | 627.3   | 1029.5  | 1270.0  | 1336.6  | 1232.4  | 791.2   | 354.6   |
| 22.5° | 90.4  | 149.4  | 510.9   | 1296.8  | 2218.2  | 2579.0  | 2647.2  | 2314.0  | 1494.4  | 700.1   |
| 25°   | 109.5 | 216.8  | 880.9   | 2113.3  | 3310.5  | 3919.4  | 3891.1  | 3454.5  | 2424.3  | 1118.3  |
| 27.5° | 137.1 | 315.6  | 1332.0  | 3002.6  | 4356.8  | 4893.7  | 4958.1  | 4418.1  | 3231.6  | 1644.5  |
| 30°   | 176.9 | 437.4  | 1816.1  | 3714.9  | 5195.5  | 5776.1  | 5786.9  | 5228.5  | 3953.9  | 2106.4  |
| 32.5° | 215.2 | 552.3  | 2239.7  | 4403.5  | 6022.0  | 6658.5  | 6706.0  | 6019.0  | 4493.1  | 2587.4  |
| 35°   | 244.3 | 627.3  | 2668.6  | 5008.6  | 6855.4  | 7732.4  | 7729.3  | 6913.6  | 5132.0  | 3017.1  |
| 37.5° | 246.6 | 702.4  | 3057.0  | 5627.5  | 7910.9  | 8892.9  | 8990.1  | 8090.9  | 5904.1  | 3548.7  |
| 40°   | 241.3 | 786.6  | 3548.7  | 6592.7  | 9812.8  | 11319.4 | 11405.2 | 10271.6 | 7452.8  | 4458.7  |
| 42.5° | 247.4 | 932.9  | 4346.8  | 8375.1  | 12970.8 | 15134.7 | 15300.1 | 14108.3 | 10299.9 | 6315.4  |
| 45°   | 279.6 | 1207.9 | 6019.0  | 11357.0 | 17472.4 | 20110.4 | 20055.3 | 18338.7 | 13612.7 | 9141.8  |
| 47.5° | 386.0 | 1881.2 | 8497.6  | 14259.2 | 20349.4 | 22698.6 | 22746.1 | 20648.1 | 15546.0 | 11314.8 |
| 50°   | 593.6 | 2878.5 | 10580.3 | 15793.4 | 21586.4 | 23943.3 | 23898.9 | 21474.6 | 16280.6 | 12384.9 |
| 52.5° | 772.1 | 3600.0 | 11625.0 | 16331.9 | 21745.0 | 24558.4 | 24555.3 | 21692.1 | 16394.7 | 12476.8 |
| 55°   | 816.5 | 3654.4 | 11633.5 | 16361.0 | 22100.4 | 25363.4 | 25464.5 | 22227.5 | 16542.5 | 12075.4 |
| 57.5° | 798.9 | 3235.4 | 11147.9 | 16529.5 | 22733.1 | 25986.1 | 25991.5 | 22746.1 | 16917.9 | 11829.6 |
| 58°   | 783.6 | 3169.6 | 11049.8 | 16625.3 | 22841.8 | 26012.2 | 25999.1 | 22769.8 | 17223.5 | 11820.4 |
| 60°   | 697.8 | 2752.1 | 10667.6 | 16869.6 | 22680.2 | 25477.5 | 25355.7 | 22251.3 | 17178.3 | 11726.2 |
| 62.5° | 548.4 | 2147.0 | 10291.5 | 16587.0 | 20947.6 | 22889.3 | 22939.9 | 19699.8 | 15660.1 | 11177.0 |
| 65°   | 436.6 | 1600.1 | 9507.2  | 14549.5 | 17249.5 | 18796.8 | 18985.2 | 16019.4 | 13071.2 | 9464.3  |
| 67.5° | 347.7 | 1156.6 | 7975.2  | 11583.7 | 13649.5 | 15687.7 | 15824.8 | 13449.6 | 10126.8 | 7251.4  |
| 70°   | 282.6 | 782.0  | 5505.0  | 8471.6  | 11258.1 | 13549.9 | 13558.3 | 11173.1 | 7558.5  | 4751.3  |
| 72.5° | 250.5 | 541.5  | 3195.6  | 6178.3  | 9128.8  | 11041.4 | 10818.5 | 9066.7  | 5809.1  | 2814.2  |
| 75°   | 216.8 | 359.2  | 1567.2  | 3777.0  | 5534.9  | 5572.4  | 5657.4  | 4205.9  | 2903.8  | 1338.1  |
| 77.5° | 178.5 | 255.1  | 617.4   | 1031.8  | 1659.8  | 2124.8  | 2203.7  | 1669.8  | 965.9   | 329.4   |
| 80°   | 122.6 | 121.0  | 166.2   | 316.3   | 474.9   | 595.2   | 555.3   | 429.7   | 252.8   | 126.4   |
| 82.5° | 52.9  | 57.4   | 75.1    | 90.4    | 73.5    | 71.2    | 68.2    | 43.7    | 33.7    | 26.0    |
| 85°   | 16.9  | 15.3   | 16.1    | 16.1    | 13.0    | 10.0    | 10.0    | 4.6     | 0.0     | 0.0     |
| 87.5° | 8.4   | 6.9    | 6.9     | 6.1     | 3.8     | 1.5     | 0.8     | 0.0     | 0.0     | 0.0     |
| 90°   | 0.0   | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



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**CANDELA DISTRIBUTION (continued):**

| 85°    |       | 90°    | 95°   | 105°  | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|-------|-------|------|------|------|------|------|------|------|
| 44.4   | 0°    | 44.4   | 44.4  | 44.4  | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 |
| 41.4   | 2.5°  | 40.6   | 40.6  | 39.1  | 37.5 | 36.8 | 35.2 | 34.5 | 33.7 | 32.9 | 32.2 |
| 44.4   | 5°    | 42.9   | 42.1  | 39.8  | 37.5 | 35.2 | 32.9 | 31.4 | 29.9 | 28.3 | 27.6 |
| 49.0   | 7.5°  | 46.7   | 45.2  | 40.6  | 36.8 | 33.7 | 30.6 | 29.1 | 26.8 | 25.3 | 23.0 |
| 54.4   | 10°   | 51.3   | 48.3  | 42.1  | 37.5 | 32.9 | 29.1 | 26.8 | 24.5 | 22.2 | 19.1 |
| 62.0   | 12.5° | 57.4   | 52.1  | 44.4  | 36.8 | 31.4 | 26.8 | 24.5 | 21.4 | 19.1 | 16.9 |
| 72.0   | 15°   | 62.8   | 55.9  | 45.2  | 36.8 | 29.9 | 24.5 | 21.4 | 18.4 | 16.1 | 13.0 |
| 90.4   | 17.5° | 70.5   | 59.0  | 44.4  | 34.5 | 27.6 | 21.4 | 18.4 | 16.1 | 12.3 | 7.7  |
| 134.0  | 20°   | 83.5   | 61.3  | 42.9  | 32.2 | 23.7 | 17.6 | 13.8 | 10.7 | 5.4  | 1.5  |
| 201.4  | 22.5° | 104.2  | 67.4  | 41.4  | 29.1 | 20.7 | 13.8 | 9.2  | 3.8  | 0.0  | 0.0  |
| 306.4  | 25°   | 144.0  | 78.1  | 41.4  | 27.6 | 18.4 | 10.0 | 3.1  | 0.0  | 0.0  | 0.0  |
| 435.1  | 27.5° | 191.5  | 92.7  | 41.4  | 23.7 | 14.6 | 5.4  | 0.0  | 0.0  | 0.0  | 0.0  |
| 592.9  | 30°   | 239.7  | 108.8 | 41.4  | 20.7 | 11.5 | 0.8  | 0.0  | 0.0  | 0.0  | 0.0  |
| 730.0  | 32.5° | 285.7  | 122.6 | 42.1  | 17.6 | 7.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 919.9  | 35°   | 332.4  | 124.9 | 41.4  | 15.3 | 4.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1152.8 | 37.5° | 392.2  | 120.3 | 39.1  | 13.8 | 2.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1516.6 | 40°   | 482.6  | 122.6 | 36.8  | 13.0 | 0.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2165.4 | 42.5° | 649.5  | 132.5 | 33.7  | 13.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 3449.1 | 45°   | 1122.9 | 177.7 | 30.6  | 13.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5177.9 | 47.5° | 1857.5 | 319.4 | 29.9  | 13.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 6237.3 | 50°   | 2370.7 | 402.1 | 31.4  | 14.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 6369.8 | 52.5° | 2366.8 | 448.1 | 32.9  | 15.3 | 3.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5871.1 | 55°   | 2104.1 | 456.5 | 35.2  | 16.9 | 10.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5045.4 | 57.5° | 1758.7 | 416.7 | 40.6  | 20.7 | 18.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 4916.0 | 58°   | 1697.4 | 398.3 | 42.1  | 21.4 | 19.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 4264.1 | 60°   | 1391.0 | 324.8 | 53.6  | 26.8 | 26.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 3495.9 | 62.5° | 960.5  | 283.4 | 61.3  | 34.5 | 27.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2577.5 | 65°   | 679.4  | 255.8 | 66.6  | 36.8 | 22.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1831.4 | 67.5° | 507.8  | 235.9 | 73.5  | 37.5 | 11.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1148.9 | 70°   | 389.1  | 221.4 | 90.4  | 39.8 | 3.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 684.8  | 72.5° | 317.1  | 204.5 | 109.5 | 41.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 410.6  | 75°   | 262.7  | 184.6 | 105.7 | 45.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 219.1  | 77.5° | 174.6  | 143.2 | 96.5  | 45.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 78.1   | 80°   | 61.3   | 56.7  | 75.1  | 39.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 16.1   | 82.5° | 9.2    | 7.7   | 10.7  | 13.8 | 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° |
|------|-------|------|------|------|------|------|------|------|------|------|------|
| 44.4 | 0°    | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 |
| 31.4 | 2.5°  | 31.4 | 31.4 | 30.6 | 31.4 | 31.4 | 32.9 | 36.8 | 42.1 | 48.3 | 50.6 |
| 26.8 | 5°    | 26.0 | 25.3 | 24.5 | 24.5 | 24.5 | 26.8 | 29.9 | 36.0 | 42.9 | 46.0 |
| 22.2 | 7.5°  | 21.4 | 20.7 | 19.9 | 19.1 | 19.1 | 20.7 | 24.5 | 31.4 | 38.3 | 41.4 |
| 18.4 | 10°   | 17.6 | 16.1 | 15.3 | 14.6 | 14.6 | 16.1 | 19.9 | 26.8 | 34.5 | 37.5 |
| 15.3 | 12.5° | 14.6 | 12.3 | 10.7 | 10.0 | 9.2  | 11.5 | 15.3 | 21.4 | 29.9 | 33.7 |
| 11.5 | 15°   | 10.0 | 7.7  | 5.4  | 4.6  | 3.8  | 6.1  | 10.0 | 16.9 | 25.3 | 29.9 |
| 6.1  | 17.5° | 5.4  | 2.3  | 0.8  | 0.0  | 0.0  | 1.5  | 4.6  | 12.3 | 20.7 | 24.5 |
| 0.0  | 20°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.1  | 15.3 | 19.1 |
| 0.0  | 22.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.8  | 9.2  | 13.0 |
| 0.0  | 25°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.8  | 6.9  |
| 0.0  | 27.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.5  |
| 0.0  | 30°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 32.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 35°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 37.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 40°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 42.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 45°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 47.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 50°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 52.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 55°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 57.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 58°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 60°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 62.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 65°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 67.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 70°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 72.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 75°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 77.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 80°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 82.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 0.0  | 85°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.3  |
| 0.0  | 87.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.1  | 6.1  |
| 0.0  | 90°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

REPORT NUMBER: P1065545

CATALOG NUMBER: GLAN-SA5A-927-U-LBC

**CANDELA DISTRIBUTION (continued):**

| 275° |       | 285° | 295° | 305° | 315° | 316° | 325° | 335° | 345° | 355°  | 360°  |
|------|-------|------|------|------|------|------|------|------|------|-------|-------|
| 44.4 | 0°    | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4  | 44.4  |
| 52.9 | 2.5°  | 54.4 | 53.6 | 52.1 | 50.6 | 50.6 | 50.6 | 52.9 | 55.1 | 57.4  | 57.4  |
| 47.5 | 5°    | 50.6 | 50.6 | 49.8 | 48.3 | 48.3 | 49.0 | 52.1 | 55.9 | 59.0  | 59.7  |
| 43.7 | 7.5°  | 46.7 | 48.3 | 46.7 | 46.0 | 46.7 | 47.5 | 50.6 | 55.1 | 59.7  | 61.3  |
| 40.6 | 10°   | 44.4 | 45.2 | 45.2 | 44.4 | 44.4 | 46.0 | 49.0 | 55.1 | 61.3  | 63.6  |
| 36.8 | 12.5° | 41.4 | 42.9 | 42.1 | 42.1 | 42.1 | 43.7 | 47.5 | 54.4 | 62.8  | 65.9  |
| 32.9 | 15°   | 38.3 | 40.6 | 40.6 | 39.8 | 39.8 | 40.6 | 46.0 | 53.6 | 65.1  | 70.5  |
| 28.3 | 17.5° | 35.2 | 37.5 | 38.3 | 36.8 | 36.8 | 38.3 | 43.7 | 53.6 | 66.6  | 75.8  |
| 23.0 | 20°   | 29.1 | 32.9 | 35.2 | 32.9 | 32.9 | 34.5 | 39.8 | 50.6 | 67.4  | 81.2  |
| 16.9 | 22.5° | 23.0 | 26.8 | 29.9 | 29.1 | 29.1 | 29.9 | 36.8 | 48.3 | 68.2  | 90.4  |
| 10.0 | 25°   | 16.9 | 20.7 | 23.0 | 24.5 | 24.5 | 26.8 | 33.7 | 46.7 | 71.2  | 109.5 |
| 4.6  | 27.5° | 10.0 | 14.6 | 17.6 | 19.1 | 19.9 | 23.0 | 31.4 | 45.2 | 76.6  | 137.1 |
| 0.0  | 30°   | 4.6  | 8.4  | 12.3 | 15.3 | 15.3 | 20.7 | 29.1 | 43.7 | 83.5  | 176.9 |
| 0.0  | 32.5° | 0.0  | 3.8  | 6.1  | 10.7 | 11.5 | 16.9 | 26.8 | 42.1 | 93.4  | 215.2 |
| 0.0  | 35°   | 0.0  | 0.0  | 3.1  | 8.4  | 8.4  | 13.8 | 24.5 | 40.6 | 108.8 | 244.3 |
| 0.0  | 37.5° | 0.0  | 0.0  | 0.0  | 6.1  | 6.9  | 12.3 | 23.7 | 39.8 | 111.8 | 246.6 |
| 0.0  | 40°   | 0.0  | 0.0  | 0.0  | 4.6  | 5.4  | 11.5 | 23.7 | 40.6 | 101.1 | 241.3 |
| 0.0  | 42.5° | 0.0  | 0.0  | 0.0  | 3.1  | 3.8  | 11.5 | 23.7 | 42.1 | 91.1  | 247.4 |
| 0.0  | 45°   | 0.0  | 0.0  | 0.0  | 2.3  | 3.1  | 12.3 | 23.0 | 41.4 | 85.8  | 279.6 |
| 0.0  | 47.5° | 0.0  | 0.0  | 0.0  | 3.1  | 4.6  | 12.3 | 22.2 | 40.6 | 86.6  | 386.0 |
| 0.0  | 50°   | 0.0  | 0.0  | 0.0  | 3.8  | 5.4  | 12.3 | 23.0 | 39.1 | 95.0  | 593.6 |
| 0.0  | 52.5° | 0.0  | 0.0  | 0.0  | 3.1  | 4.6  | 13.8 | 25.3 | 38.3 | 103.4 | 772.1 |
| 0.0  | 55°   | 0.0  | 0.0  | 0.0  | 0.8  | 2.3  | 17.6 | 27.6 | 38.3 | 116.4 | 816.5 |
| 0.0  | 57.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 19.9 | 31.4 | 40.6 | 137.9 | 798.9 |
| 0.0  | 58°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 19.9 | 32.2 | 40.6 | 139.4 | 783.6 |
| 0.0  | 60°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 19.9 | 35.2 | 45.2 | 150.1 | 697.8 |
| 0.0  | 62.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 16.9 | 42.1 | 56.7 | 156.3 | 548.4 |
| 0.0  | 65°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 13.8 | 49.8 | 62.0 | 160.9 | 436.6 |
| 0.0  | 67.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 13.0 | 51.3 | 62.8 | 163.2 | 347.7 |
| 0.0  | 70°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 13.8 | 50.6 | 67.4 | 170.8 | 282.6 |
| 0.0  | 72.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 15.3 | 46.0 | 74.3 | 170.8 | 250.5 |
| 0.0  | 75°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 16.1 | 42.9 | 83.5 | 155.5 | 216.8 |
| 0.0  | 77.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 15.3 | 42.1 | 97.3 | 138.6 | 178.5 |
| 0.0  | 80°   | 1.5  | 2.3  | 2.3  | 1.5  | 1.5  | 13.0 | 41.4 | 98.8 | 118.0 | 122.6 |
| 0.8  | 82.5° | 4.6  | 6.1  | 5.4  | 3.8  | 3.8  | 11.5 | 36.8 | 82.7 | 61.3  | 52.9  |
| 4.6  | 85°   | 8.4  | 10.0 | 10.0 | 8.4  | 8.4  | 10.7 | 23.0 | 29.9 | 20.7  | 16.9  |
| 8.4  | 87.5° | 11.5 | 13.0 | 13.0 | 11.5 | 11.5 | 10.7 | 10.0 | 9.2  | 8.4   | 8.4   |
| 0.0  | 90°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   |

(END OF RI



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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-13

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

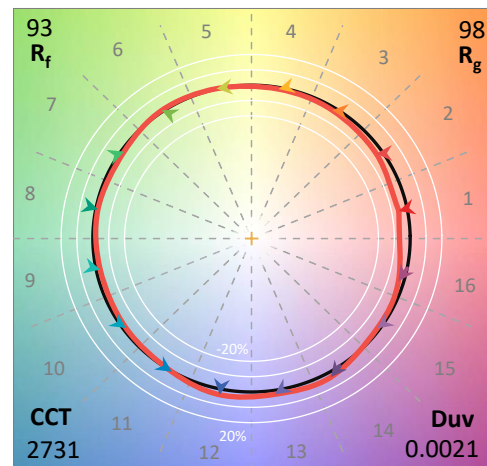
### Test Information

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

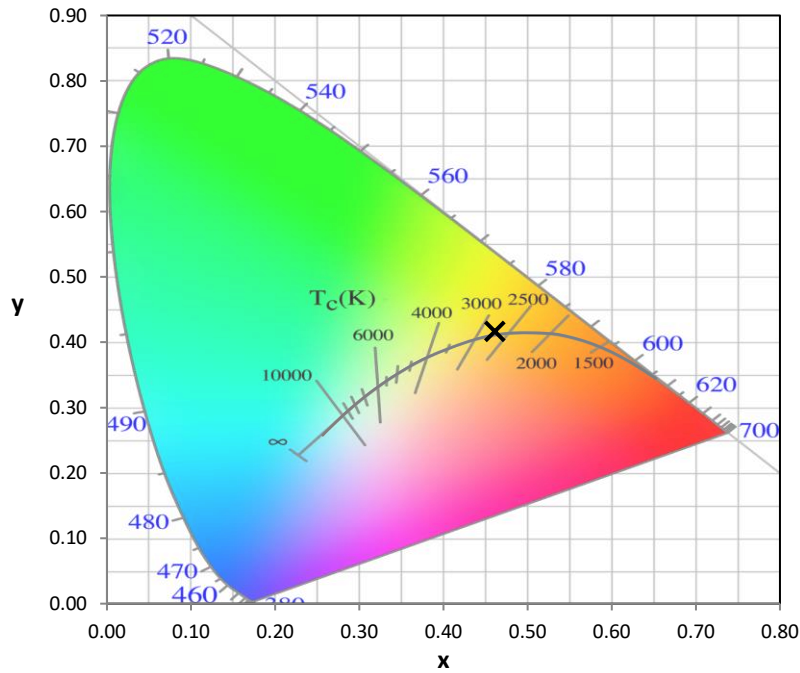
Stabilization Time: M  
 Operation Time: 1H 0M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-13

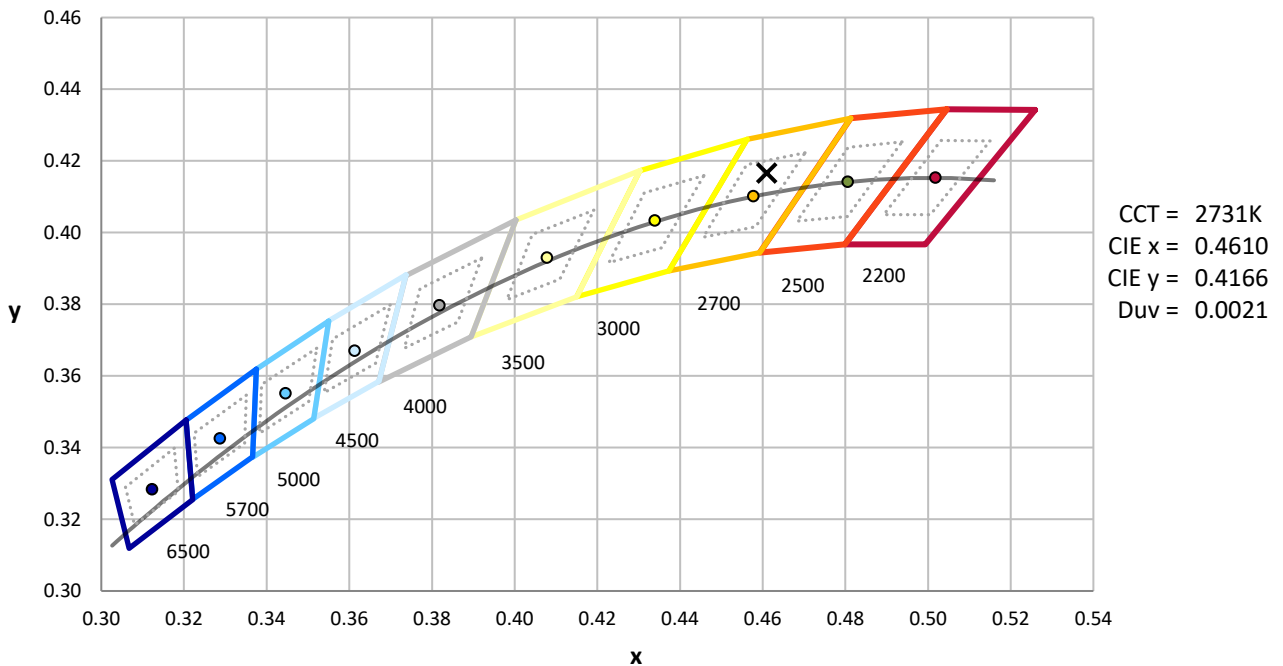
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date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



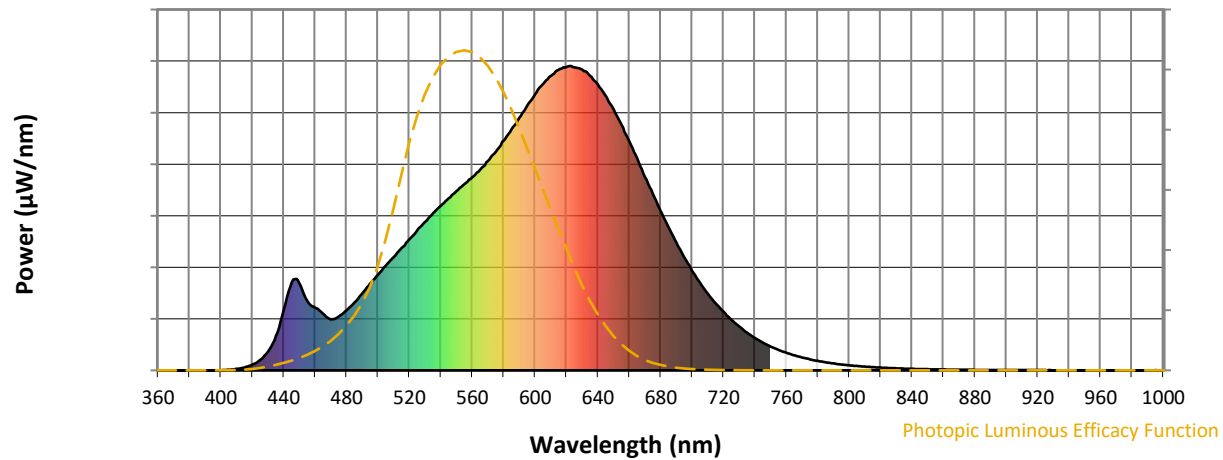
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-13

### Photopic Flux vs. Wavelength

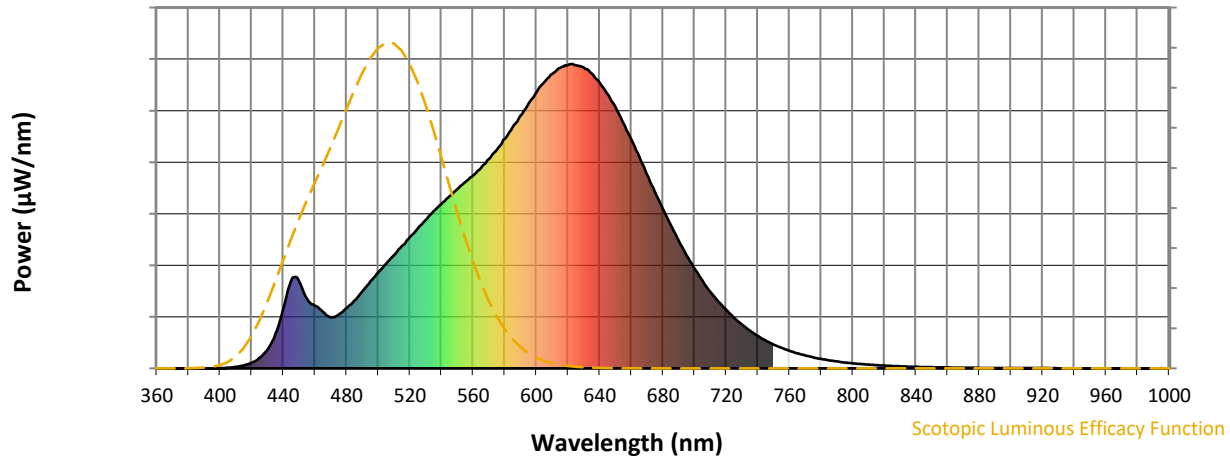


### Photopic Lumens: NR

| $\lambda$<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



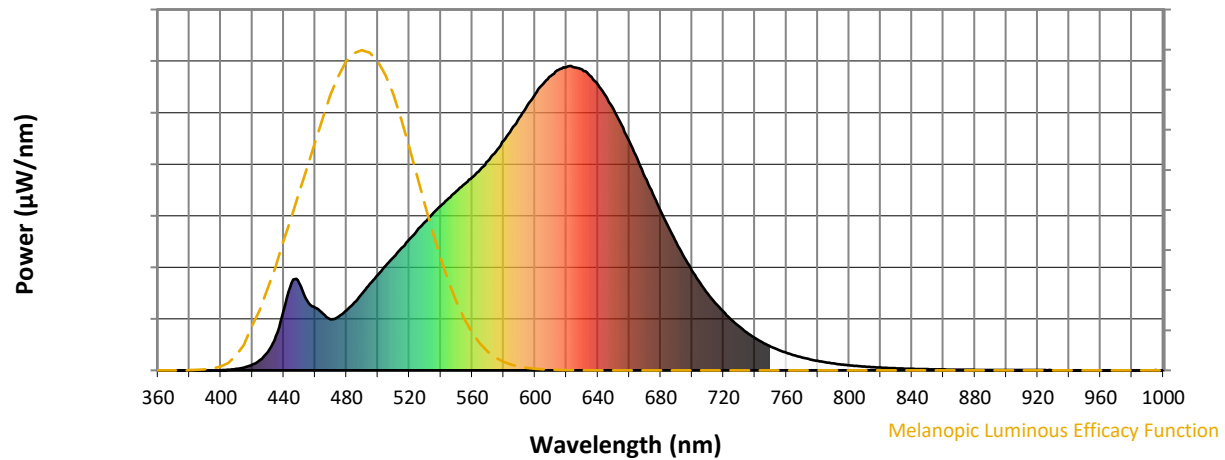
Scotopic Lumens: NR

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**

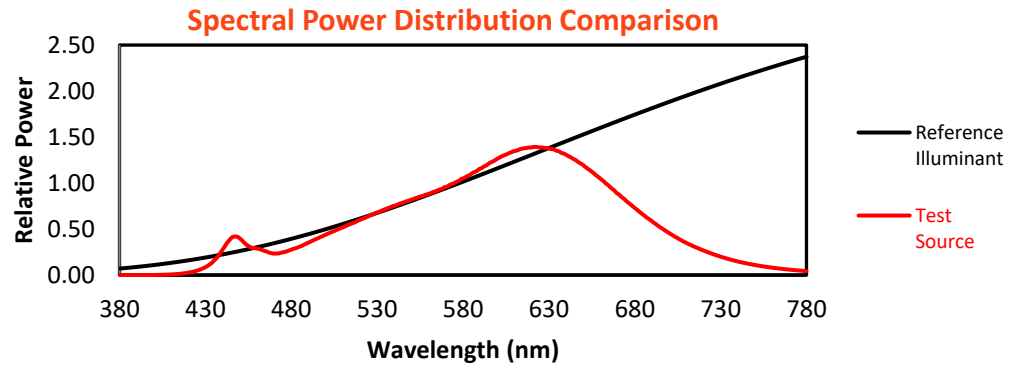
| $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | 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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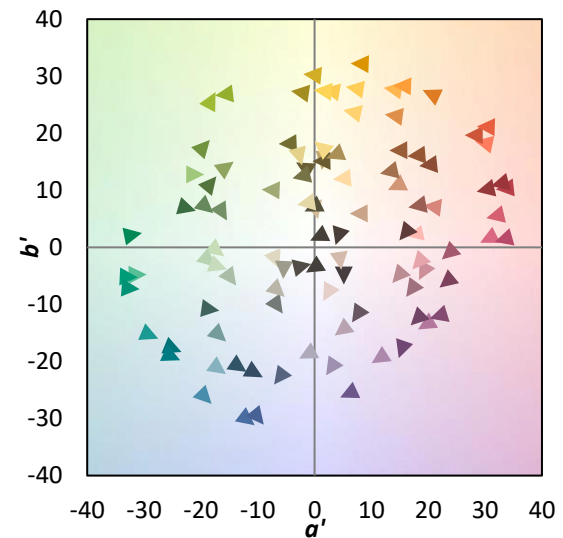
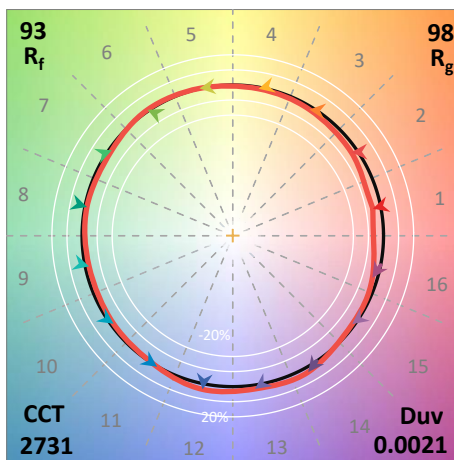
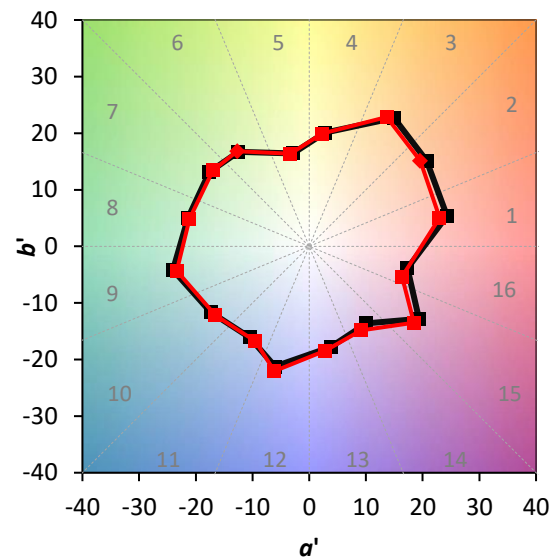
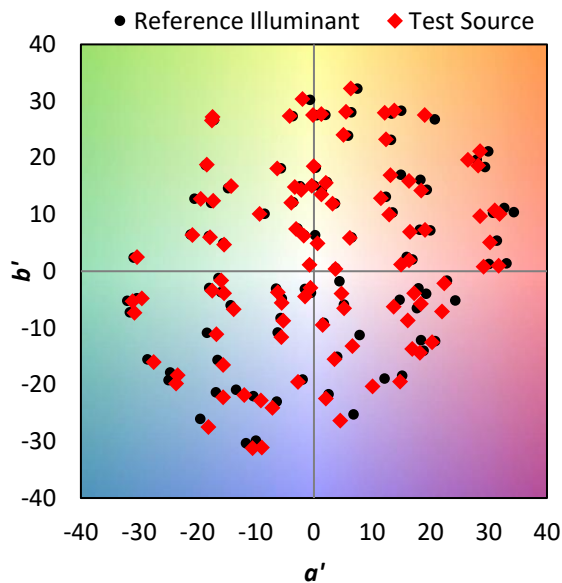
TM-30-18

### Summary

$R_f = 92.6$   
 $R_g = 98$   
 $CIE R_a = 91.8$   
 $R_9 = 54.7$

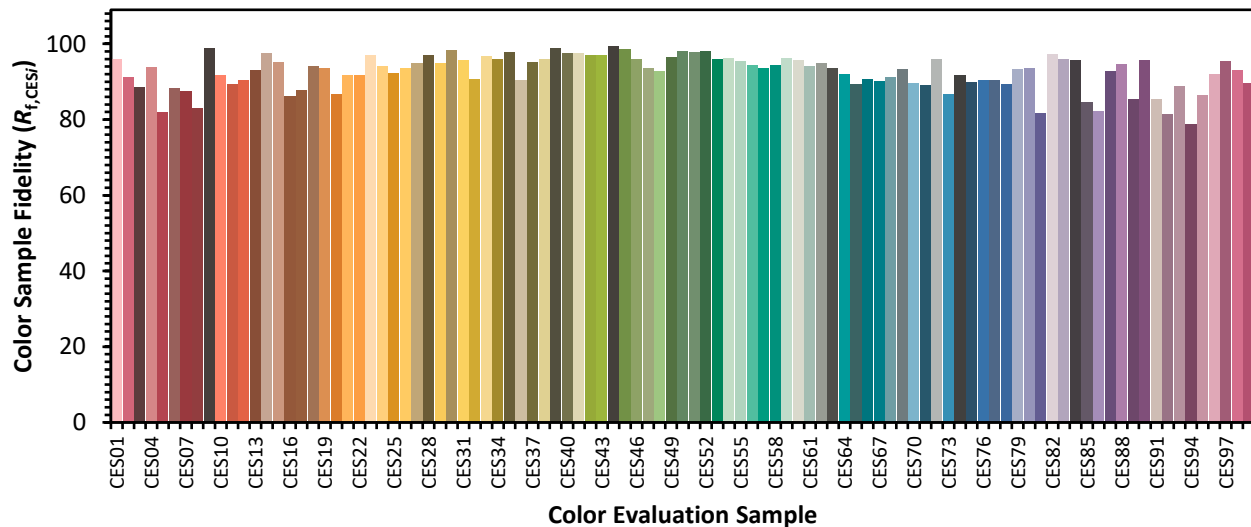


### Color Vector Graphics

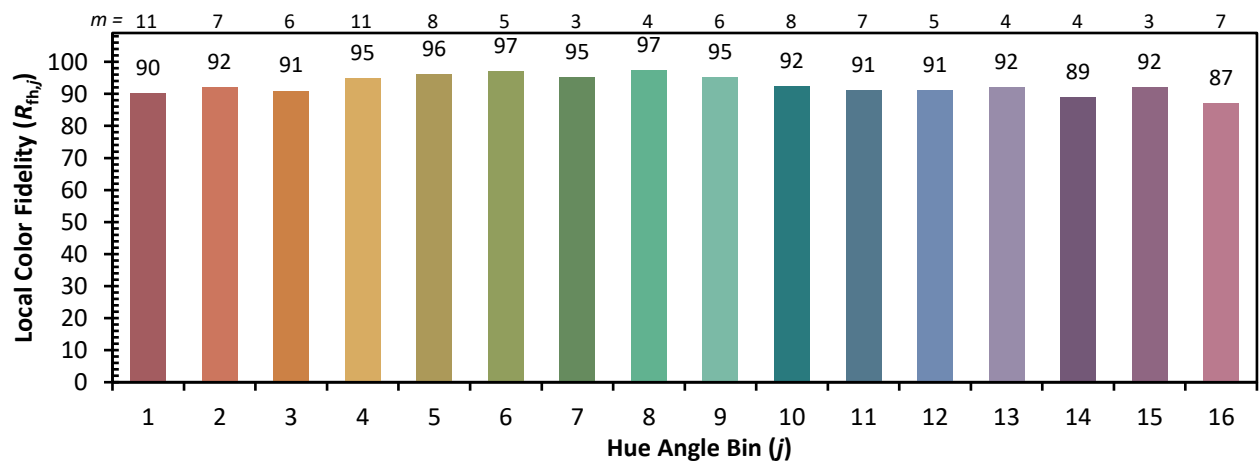
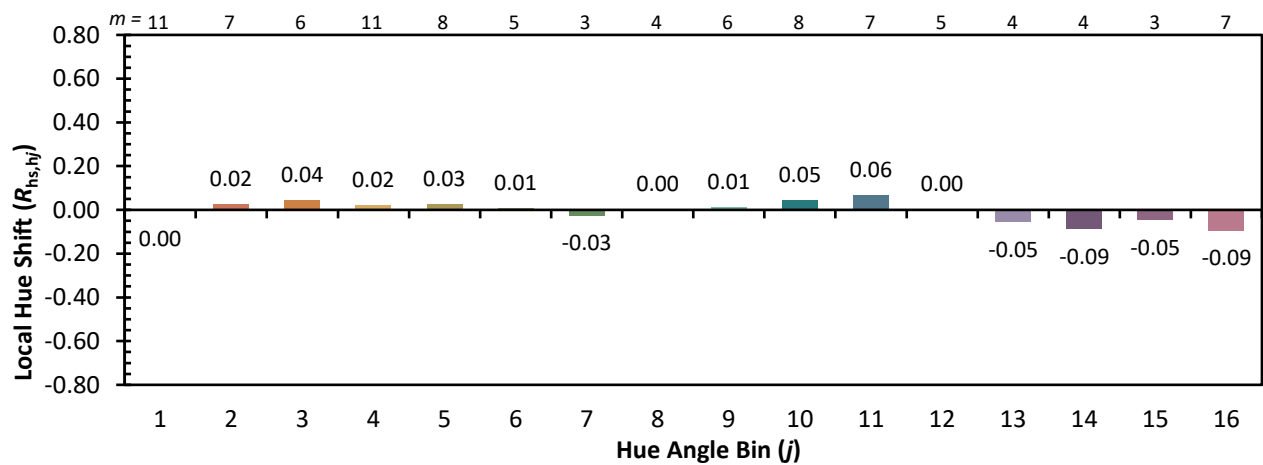
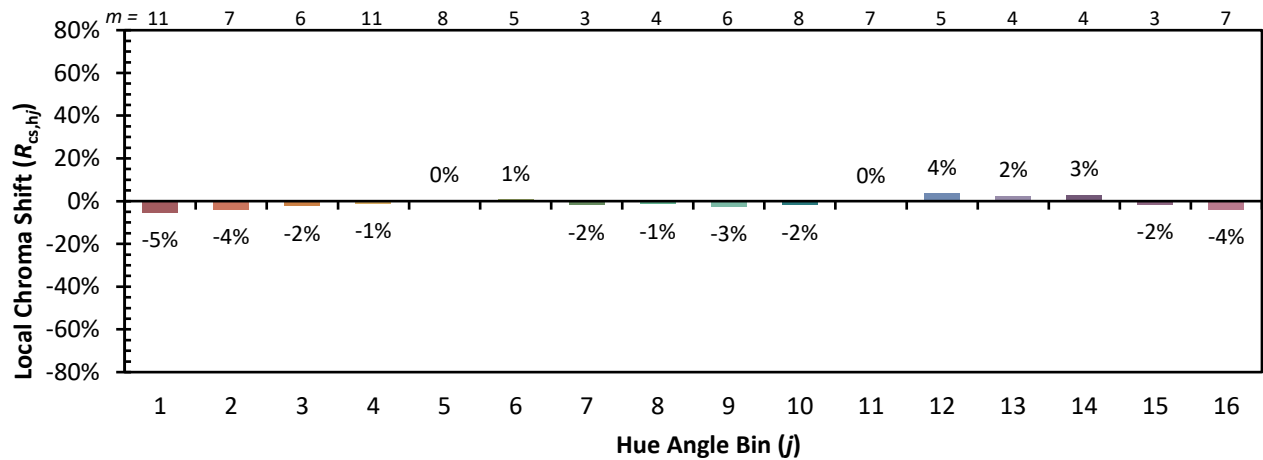


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

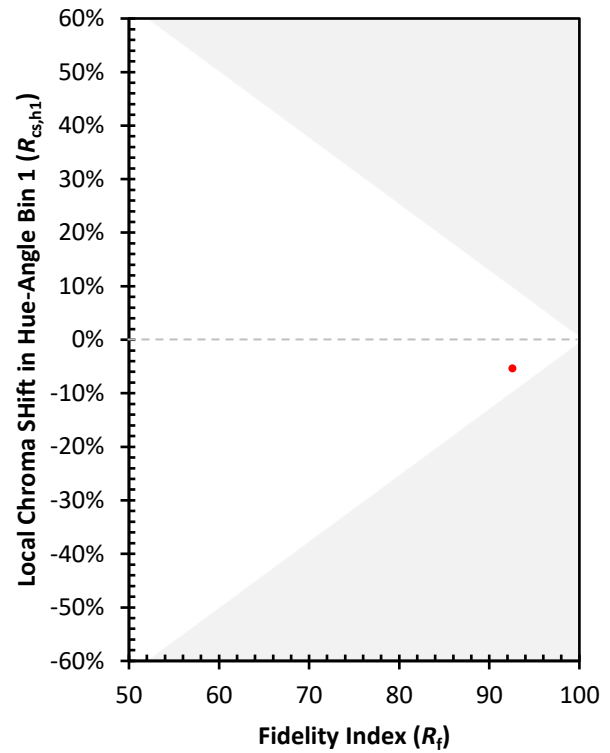
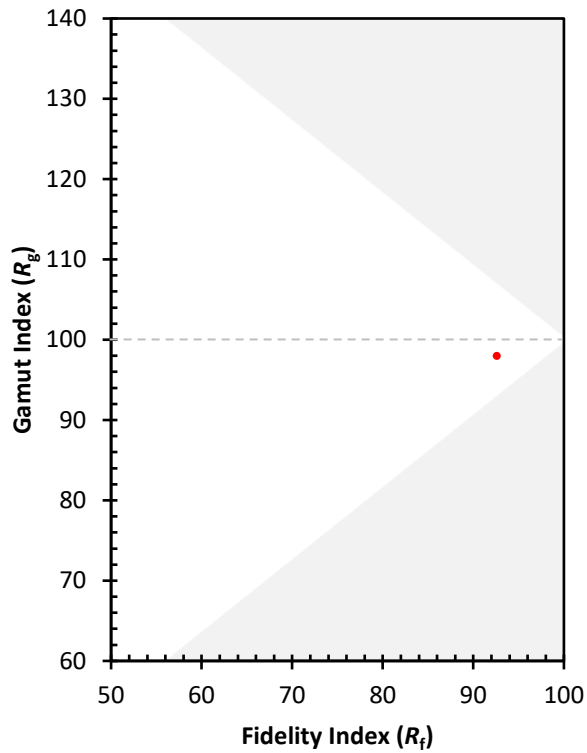
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 94 | CES51 = 98 | CES76 = 90 |
| CES02 = 64 | CES27 = 95 | CES52 = 98 | CES77 = 90 |
| CES03 = 32 | CES28 = 97 | CES53 = 96 | CES78 = 89 |
| CES04 = 71 | CES29 = 95 | CES54 = 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)