

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: P1065387

Luminaire Tested: **GLAN-SA1C-830-U-LBC**

Issue Date: 08/07/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1065387  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 08/07/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1C-830-U-LBC  
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 1xLight Square PACKAGE  
80CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (14) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4664.3 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G1

Input Watts (W): 50.2  
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

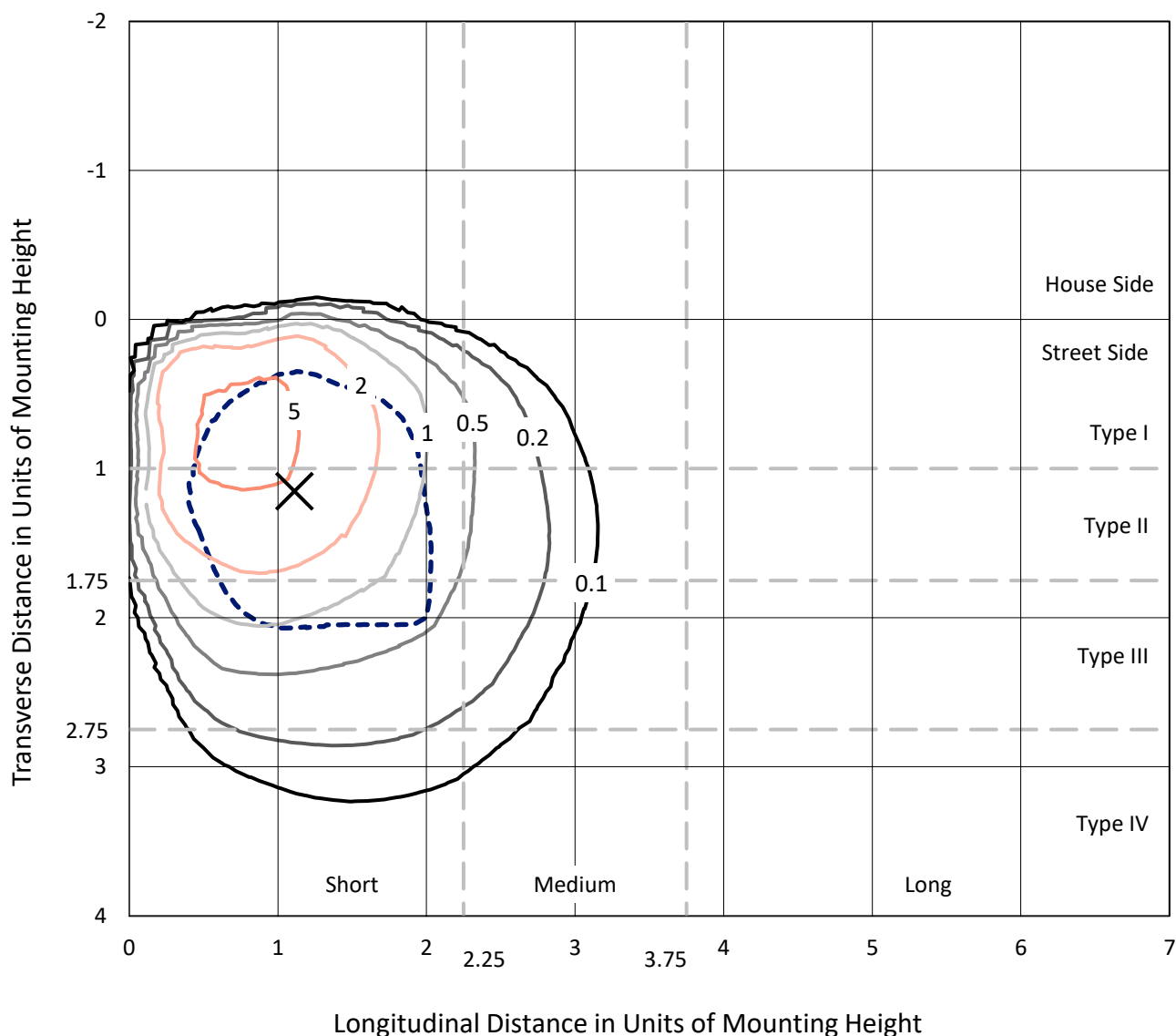
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

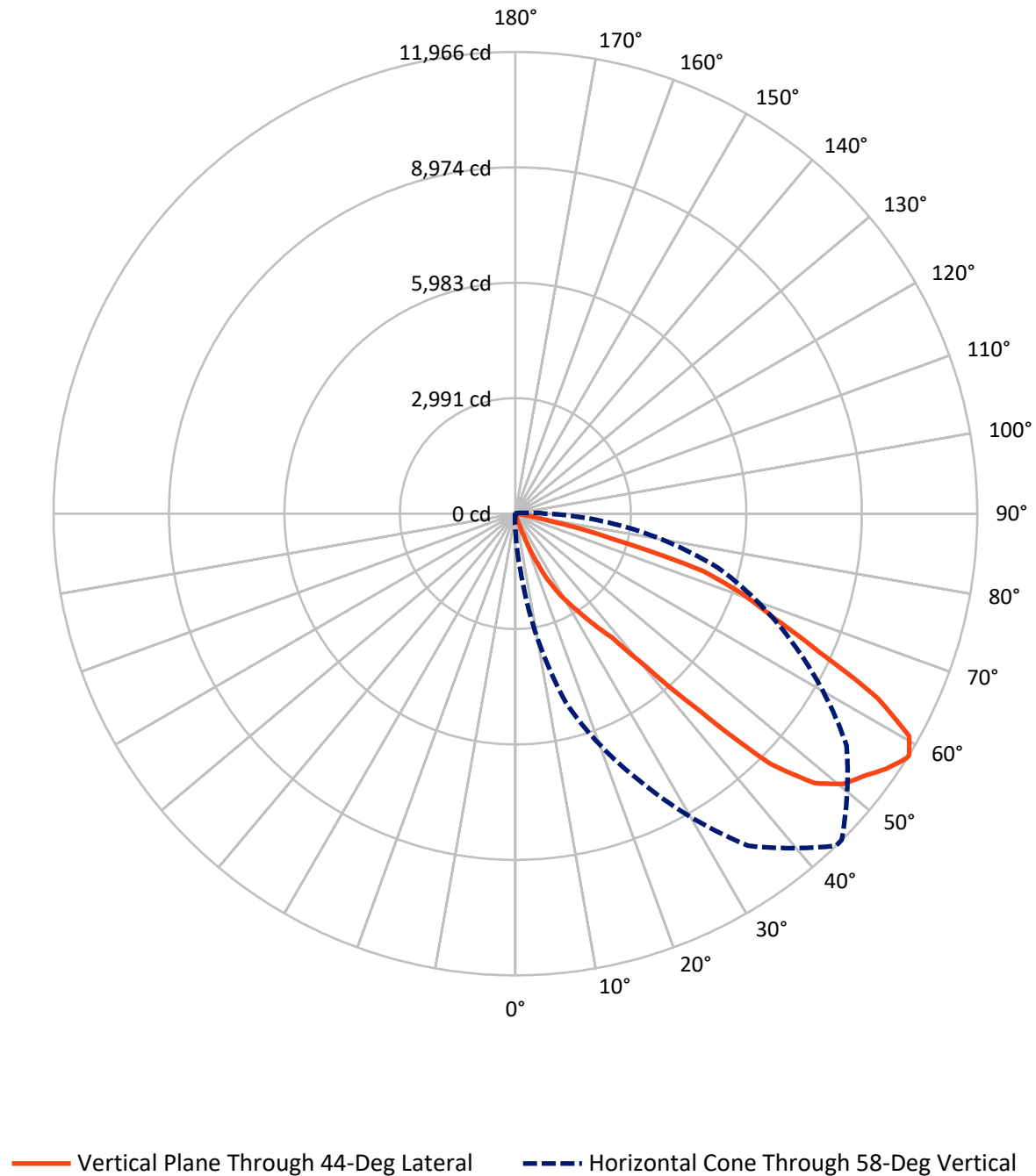


Based on 20 foot mounting height. Maximum calculated value = 8.1 fc

Type III - Short - N/A

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## Luminous Intensity Polar Plot



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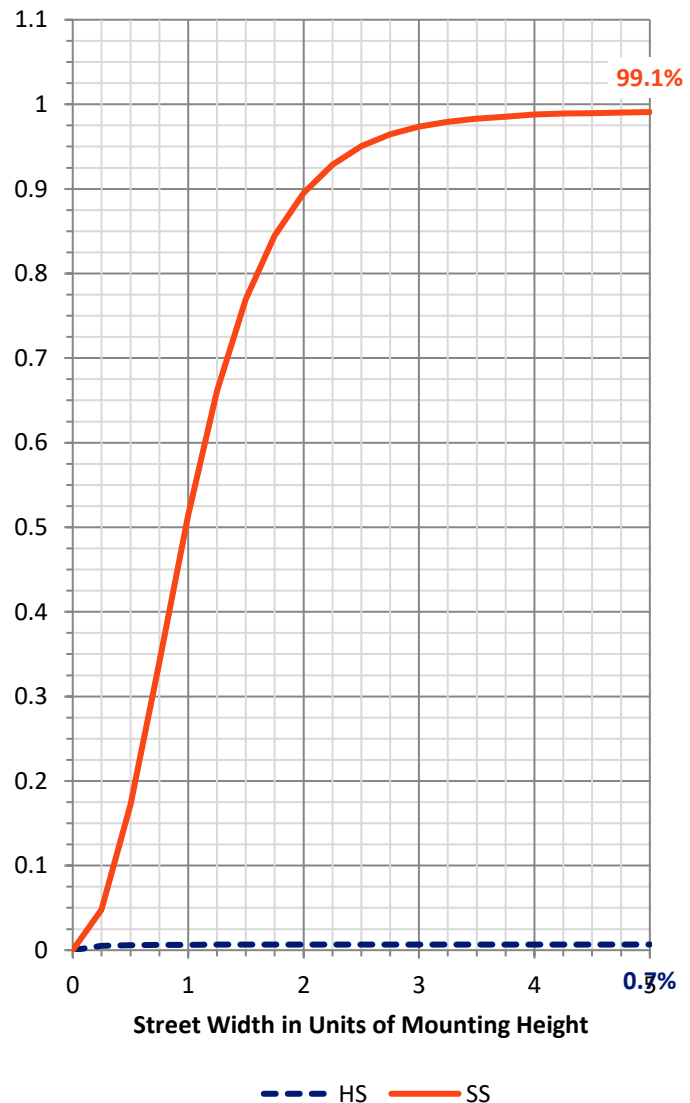
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 31.8     | 0.0    | 31.8   |
|                    | % Fixture | 0.7      | 0.0    | 0.7    |
| <b>Street Side</b> | Lumens    | 4632.4   | 0.0    | 4632.4 |
|                    | % Fixture | 99.3     | 0.0    | 99.3   |
| <b>Total</b>       | Lumens    | 4664.3   | 0.0    | 4664.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.8    | 0.0       |
| 10°-20°   | 10.2   | 0.2       |
| 20°-30°   | 110.5  | 2.4       |
| 30°-40°   | 326.8  | 7.0       |
| 40°-50°   | 974.0  | 20.9      |
| 50°-60°   | 1545.5 | 33.1      |
| 60°-70°   | 1289.1 | 27.6      |
| 70°-80°   | 397.6  | 8.5       |
| 80°-90°   | 8.8    | 0.2       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 4664.3 | 100.0     |
| 0°-180°   | 4664.3 | 100.0     |



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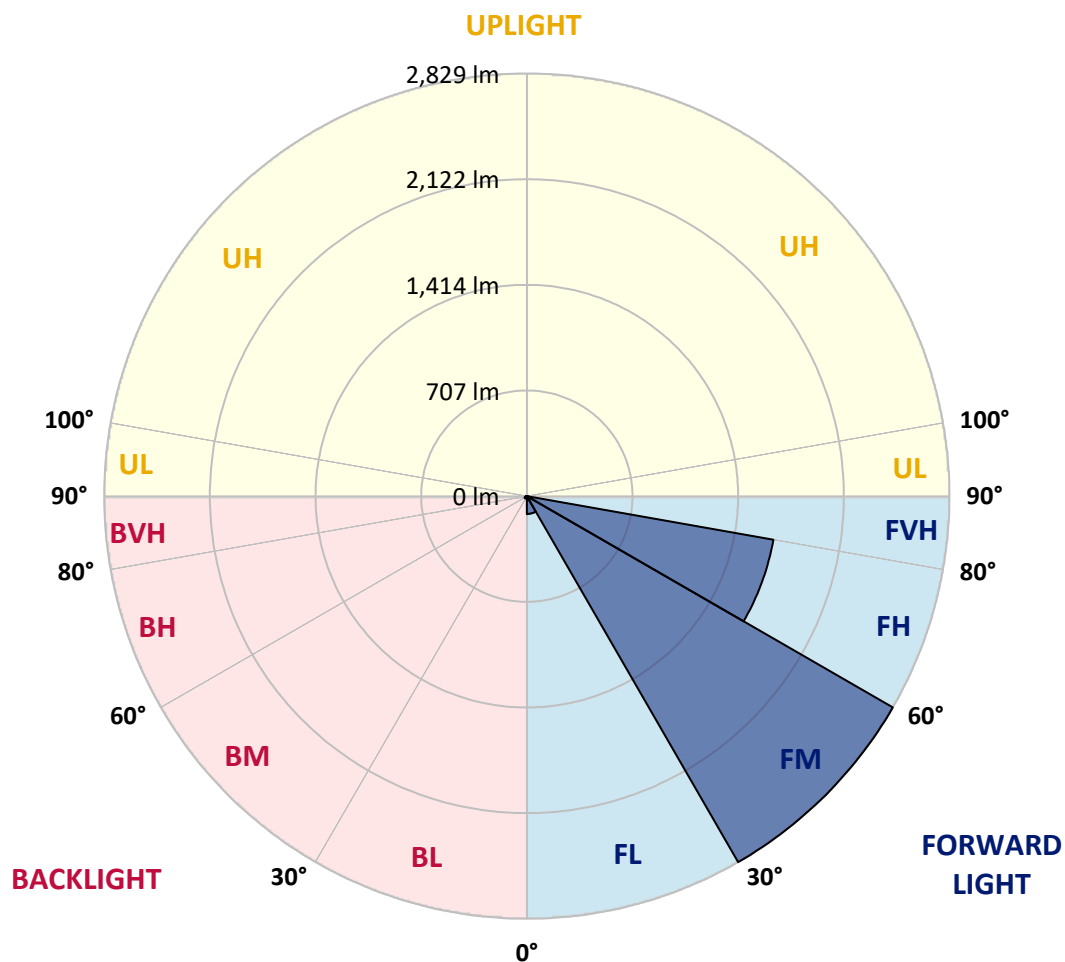
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 119.4  | 2.6       |                         |      |         |
| FM   | (30°-60°)   | 2828.8 | 60.6      |                         |      |         |
| FH   | (60°-80°)   | 1675.8 | 35.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 8.4    | 0.2       |                         |      | G0/10   |
| BL   | (0°-30°)    | 3.1    | 0.1       | B0/110                  |      |         |
| BM   | (30°-60°)   | 17.4   | 0.4       | B0/220                  |      |         |
| BH   | (60°-80°)   | 10.9   | 0.2       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.4    | 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-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°     | 15°    | 25°    | 35°     | 44°     | 45°     | 55°     | 65°    | 75°    |
|-------|-------|--------|--------|--------|---------|---------|---------|---------|--------|--------|
| 0°    | 20.4  | 20.4   | 20.4   | 20.4   | 20.4    | 20.4    | 20.4    | 20.4    | 20.4   | 20.4   |
| 2.5°  | 26.4  | 26.4   | 25.4   | 24.0   | 22.6    | 21.1    | 20.8    | 20.1    | 19.7   | 19.4   |
| 5°    | 27.5  | 27.5   | 27.1   | 26.1   | 24.7    | 23.6    | 23.6    | 22.6    | 21.8   | 21.1   |
| 7.5°  | 28.2  | 28.5   | 29.2   | 28.9   | 28.2    | 27.1    | 27.1    | 26.4    | 25.4   | 23.6   |
| 10°   | 29.2  | 30.3   | 31.7   | 32.4   | 32.8    | 32.8    | 32.4    | 32.1    | 30.3   | 27.8   |
| 12.5° | 30.3  | 32.4   | 35.9   | 39.5   | 41.6    | 44.4    | 44.0    | 43.3    | 38.8   | 33.5   |
| 15°   | 32.4  | 35.6   | 43.0   | 53.2   | 69.1    | 78.9    | 82.8    | 79.3    | 64.1   | 45.1   |
| 17.5° | 34.9  | 40.2   | 62.4   | 111.3  | 182.5   | 216.3   | 236.8   | 220.2   | 145.9  | 85.6   |
| 20°   | 37.3  | 49.0   | 115.9  | 288.6  | 473.6   | 584.2   | 614.8   | 566.9   | 364.0  | 163.1  |
| 22.5° | 41.6  | 68.7   | 235.0  | 596.5  | 1020.4  | 1186.4  | 1217.7  | 1064.4  | 687.4  | 322.0  |
| 25°   | 50.4  | 99.7   | 405.2  | 972.1  | 1522.8  | 1803.0  | 1789.9  | 1589.1  | 1115.2 | 514.4  |
| 27.5° | 63.1  | 145.2  | 612.7  | 1381.2 | 2004.1  | 2251.1  | 2280.7  | 2032.3  | 1486.6 | 756.5  |
| 30°   | 81.4  | 201.2  | 835.4  | 1708.9 | 2390.0  | 2657.0  | 2662.0  | 2405.1  | 1818.8 | 969.0  |
| 32.5° | 99.0  | 254.0  | 1030.3 | 2025.6 | 2770.2  | 3063.0  | 3084.8  | 2768.7  | 2066.9 | 1190.2 |
| 35°   | 112.4 | 288.6  | 1227.6 | 2304.0 | 3153.5  | 3556.9  | 3555.5  | 3180.3  | 2360.7 | 1387.9 |
| 37.5° | 113.5 | 323.1  | 1406.2 | 2588.7 | 3639.0  | 4090.7  | 4135.5  | 3721.8  | 2715.9 | 1632.4 |
| 40°   | 111.0 | 361.9  | 1632.4 | 3032.6 | 4513.9  | 5207.0  | 5246.4  | 4725.0  | 3428.3 | 2051.0 |
| 42.5° | 113.8 | 429.2  | 1999.6 | 3852.6 | 5966.6  | 6962.0  | 7038.1  | 6489.9  | 4738.0 | 2905.1 |
| 45°   | 128.6 | 555.7  | 2768.7 | 5224.2 | 8037.4  | 9250.9  | 9225.5  | 8435.9  | 6261.9 | 4205.3 |
| 47.5° | 177.6 | 865.4  | 3908.9 | 6559.3 | 9360.8  | 10441.4 | 10463.3 | 9498.2  | 7151.2 | 5204.9 |
| 50°   | 273.1 | 1324.1 | 4867.0 | 7265.0 | 9929.8  | 11014.0 | 10993.6 | 9878.4  | 7489.1 | 5697.1 |
| 52.5° | 355.2 | 1656.0 | 5347.6 | 7512.7 | 10002.8 | 11296.9 | 11295.5 | 9978.5  | 7541.6 | 5739.4 |
| 55°   | 375.6 | 1681.0 | 5351.4 | 7526.1 | 10166.3 | 11667.3 | 11713.8 | 10224.8 | 7609.6 | 5554.7 |
| 57.5° | 367.5 | 1488.3 | 5128.1 | 7603.6 | 10457.3 | 11953.7 | 11956.2 | 10463.3 | 7782.3 | 5441.6 |
| 58°   | 360.5 | 1458.0 | 5083.0 | 7647.7 | 10507.3 | 11965.7 | 11959.7 | 10474.2 | 7922.9 | 5437.4 |
| 60°   | 321.0 | 1266.0 | 4907.1 | 7760.1 | 10433.0 | 11719.8 | 11663.7 | 10235.7 | 7902.1 | 5394.1 |
| 62.5° | 252.3 | 987.6  | 4734.1 | 7630.1 | 9636.0  | 10529.2 | 10552.4 | 9062.0  | 7203.7 | 5141.4 |
| 65°   | 200.8 | 736.1  | 4373.3 | 6692.8 | 7934.9  | 8646.6  | 8733.3  | 7369.0  | 6012.8 | 4353.6 |
| 67.5° | 160.0 | 532.0  | 3668.6 | 5328.5 | 6278.8  | 7216.4  | 7279.5  | 6186.9  | 4658.4 | 3335.7 |
| 70°   | 130.0 | 359.7  | 2532.3 | 3897.0 | 5178.8  | 6233.0  | 6236.9  | 5139.7  | 3477.0 | 2185.6 |
| 72.5° | 115.2 | 249.1  | 1470.0 | 2842.0 | 4199.3  | 5079.1  | 4976.5  | 4170.7  | 2672.2 | 1294.5 |
| 75°   | 99.7  | 165.3  | 720.9  | 1737.4 | 2546.1  | 2563.3  | 2602.4  | 1934.7  | 1335.7 | 615.5  |
| 77.5° | 82.1  | 117.3  | 284.0  | 474.6  | 763.5   | 977.4   | 1013.7  | 768.1   | 444.3  | 151.5  |
| 80°   | 56.4  | 55.7   | 76.5   | 145.5  | 218.5   | 273.8   | 255.5   | 197.7   | 116.3  | 58.1   |
| 82.5° | 24.3  | 26.4   | 34.5   | 41.6   | 33.8    | 32.8    | 31.4    | 20.1    | 15.5   | 12.0   |
| 85°   | 7.8   | 7.0    | 7.4    | 7.4    | 6.0     | 4.6     | 4.6     | 2.1     | 0.0    | 0.0    |
| 87.5° | 3.9   | 3.2    | 3.2    | 2.8    | 1.8     | 0.7     | 0.4     | 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° |
|--------|-------|--------|-------|------|------|------|------|------|------|------|------|
| 20.4   | 0°    | 20.4   | 20.4  | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 |
| 19.0   | 2.5°  | 18.7   | 18.7  | 18.0 | 17.3 | 16.9 | 16.2 | 15.9 | 15.5 | 15.2 | 14.8 |
| 20.4   | 5°    | 19.7   | 19.4  | 18.3 | 17.3 | 16.2 | 15.2 | 14.4 | 13.7 | 13.0 | 12.7 |
| 22.6   | 7.5°  | 21.5   | 20.8  | 18.7 | 16.9 | 15.5 | 14.1 | 13.4 | 12.3 | 11.6 | 10.6 |
| 25.0   | 10°   | 23.6   | 22.2  | 19.4 | 17.3 | 15.2 | 13.4 | 12.3 | 11.3 | 10.2 | 8.8  |
| 28.5   | 12.5° | 26.4   | 24.0  | 20.4 | 16.9 | 14.4 | 12.3 | 11.3 | 9.9  | 8.8  | 7.8  |
| 33.1   | 15°   | 28.9   | 25.7  | 20.8 | 16.9 | 13.7 | 11.3 | 9.9  | 8.5  | 7.4  | 6.0  |
| 41.6   | 17.5° | 32.4   | 27.1  | 20.4 | 15.9 | 12.7 | 9.9  | 8.5  | 7.4  | 5.6  | 3.5  |
| 61.7   | 20°   | 38.4   | 28.2  | 19.7 | 14.8 | 10.9 | 8.1  | 6.3  | 4.9  | 2.5  | 0.7  |
| 92.7   | 22.5° | 47.9   | 31.0  | 19.0 | 13.4 | 9.5  | 6.3  | 4.2  | 1.8  | 0.0  | 0.0  |
| 140.9  | 25°   | 66.2   | 35.9  | 19.0 | 12.7 | 8.5  | 4.6  | 1.4  | 0.0  | 0.0  | 0.0  |
| 200.1  | 27.5° | 88.1   | 42.6  | 19.0 | 10.9 | 6.7  | 2.5  | 0.0  | 0.0  | 0.0  | 0.0  |
| 272.7  | 30°   | 110.3  | 50.0  | 19.0 | 9.5  | 5.3  | 0.4  | 0.0  | 0.0  | 0.0  | 0.0  |
| 335.8  | 32.5° | 131.4  | 56.4  | 19.4 | 8.1  | 3.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 423.2  | 35°   | 152.9  | 57.4  | 19.0 | 7.0  | 2.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 530.3  | 37.5° | 180.4  | 55.3  | 18.0 | 6.3  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 697.6  | 40°   | 222.0  | 56.4  | 16.9 | 6.0  | 0.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 996.1  | 42.5° | 298.8  | 61.0  | 15.5 | 6.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1586.6 | 45°   | 516.5  | 81.7  | 14.1 | 6.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2381.9 | 47.5° | 854.4  | 146.9 | 13.7 | 6.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2869.2 | 50°   | 1090.5 | 185.0 | 14.4 | 6.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2930.1 | 52.5° | 1088.8 | 206.1 | 15.2 | 7.0  | 1.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2700.7 | 55°   | 967.9  | 210.0 | 16.2 | 7.8  | 4.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2320.9 | 57.5° | 809.0  | 191.7 | 18.7 | 9.5  | 8.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2261.4 | 58°   | 780.8  | 183.2 | 19.4 | 9.9  | 9.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1961.5 | 60°   | 639.9  | 149.4 | 24.7 | 12.3 | 12.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1608.1 | 62.5° | 441.8  | 130.4 | 28.2 | 15.9 | 12.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1185.6 | 65°   | 312.5  | 117.7 | 30.7 | 16.9 | 10.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 842.5  | 67.5° | 233.6  | 108.5 | 33.8 | 17.3 | 5.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 528.5  | 70°   | 179.0  | 101.8 | 41.6 | 18.3 | 1.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 315.0  | 72.5° | 145.9  | 94.1  | 50.4 | 19.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 188.9  | 75°   | 120.9  | 84.9  | 48.6 | 20.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 100.8  | 77.5° | 80.3   | 65.9  | 44.4 | 20.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 35.9   | 80°   | 28.2   | 26.1  | 34.5 | 18.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 7.4    | 82.5° | 4.2    | 3.5   | 4.9  | 6.3  | 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° |
|------|-------|------|------|------|------|------|------|------|------|------|------|
| 20.4 | 0°    | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 |
| 14.4 | 2.5°  | 14.4 | 14.4 | 14.1 | 14.4 | 14.4 | 15.2 | 16.9 | 19.4 | 22.2 | 23.3 |
| 12.3 | 5°    | 12.0 | 11.6 | 11.3 | 11.3 | 11.3 | 12.3 | 13.7 | 16.6 | 19.7 | 21.1 |
| 10.2 | 7.5°  | 9.9  | 9.5  | 9.2  | 8.8  | 8.8  | 9.5  | 11.3 | 14.4 | 17.6 | 19.0 |
| 8.5  | 10°   | 8.1  | 7.4  | 7.0  | 6.7  | 6.7  | 7.4  | 9.2  | 12.3 | 15.9 | 17.3 |
| 7.0  | 12.5° | 6.7  | 5.6  | 4.9  | 4.6  | 4.2  | 5.3  | 7.0  | 9.9  | 13.7 | 15.5 |
| 5.3  | 15°   | 4.6  | 3.5  | 2.5  | 2.1  | 1.8  | 2.8  | 4.6  | 7.8  | 11.6 | 13.7 |
| 2.8  | 17.5° | 2.5  | 1.1  | 0.4  | 0.0  | 0.0  | 0.7  | 2.1  | 5.6  | 9.5  | 11.3 |
| 0.0  | 20°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.8  | 7.0  | 8.8  |
| 0.0  | 22.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.4  | 4.2  | 6.0  |
| 0.0  | 25°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.8  | 3.2  |
| 0.0  | 27.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.7  |
| 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  | 1.1  |
| 0.0  | 87.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.4  | 2.8  |
| 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: P1065387

CATALOG NUMBER: GLAN-SA1C-830-U-LBC

**CANDELA DISTRIBUTION (continued):**

| 275° |       | 285° | 295° | 305° | 315° | 316° | 325° | 335° | 345° | 355° | 360°  |
|------|-------|------|------|------|------|------|------|------|------|------|-------|
| 20.4 | 0°    | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4  |
| 24.3 | 2.5°  | 25.0 | 24.7 | 24.0 | 23.3 | 23.3 | 23.3 | 24.3 | 25.4 | 26.4 | 26.4  |
| 21.8 | 5°    | 23.3 | 23.3 | 22.9 | 22.2 | 22.2 | 22.6 | 24.0 | 25.7 | 27.1 | 27.5  |
| 20.1 | 7.5°  | 21.5 | 22.2 | 21.5 | 21.1 | 21.5 | 21.8 | 23.3 | 25.4 | 27.5 | 28.2  |
| 18.7 | 10°   | 20.4 | 20.8 | 20.8 | 20.4 | 20.4 | 21.1 | 22.6 | 25.4 | 28.2 | 29.2  |
| 16.9 | 12.5° | 19.0 | 19.7 | 19.4 | 19.4 | 19.4 | 20.1 | 21.8 | 25.0 | 28.9 | 30.3  |
| 15.2 | 15°   | 17.6 | 18.7 | 18.7 | 18.3 | 18.3 | 18.7 | 21.1 | 24.7 | 29.9 | 32.4  |
| 13.0 | 17.5° | 16.2 | 17.3 | 17.6 | 16.9 | 16.9 | 17.6 | 20.1 | 24.7 | 30.7 | 34.9  |
| 10.6 | 20°   | 13.4 | 15.2 | 16.2 | 15.2 | 15.2 | 15.9 | 18.3 | 23.3 | 31.0 | 37.3  |
| 7.8  | 22.5° | 10.6 | 12.3 | 13.7 | 13.4 | 13.4 | 13.7 | 16.9 | 22.2 | 31.4 | 41.6  |
| 4.6  | 25°   | 7.8  | 9.5  | 10.6 | 11.3 | 11.3 | 12.3 | 15.5 | 21.5 | 32.8 | 50.4  |
| 2.1  | 27.5° | 4.6  | 6.7  | 8.1  | 8.8  | 9.2  | 10.6 | 14.4 | 20.8 | 35.2 | 63.1  |
| 0.0  | 30°   | 2.1  | 3.9  | 5.6  | 7.0  | 7.0  | 9.5  | 13.4 | 20.1 | 38.4 | 81.4  |
| 0.0  | 32.5° | 0.0  | 1.8  | 2.8  | 4.9  | 5.3  | 7.8  | 12.3 | 19.4 | 43.0 | 99.0  |
| 0.0  | 35°   | 0.0  | 0.0  | 1.4  | 3.9  | 3.9  | 6.3  | 11.3 | 18.7 | 50.0 | 112.4 |
| 0.0  | 37.5° | 0.0  | 0.0  | 0.0  | 2.8  | 3.2  | 5.6  | 10.9 | 18.3 | 51.4 | 113.5 |
| 0.0  | 40°   | 0.0  | 0.0  | 0.0  | 2.1  | 2.5  | 5.3  | 10.9 | 18.7 | 46.5 | 111.0 |
| 0.0  | 42.5° | 0.0  | 0.0  | 0.0  | 1.4  | 1.8  | 5.3  | 10.9 | 19.4 | 41.9 | 113.8 |
| 0.0  | 45°   | 0.0  | 0.0  | 0.0  | 1.1  | 1.4  | 5.6  | 10.6 | 19.0 | 39.5 | 128.6 |
| 0.0  | 47.5° | 0.0  | 0.0  | 0.0  | 1.4  | 2.1  | 5.6  | 10.2 | 18.7 | 39.8 | 177.6 |
| 0.0  | 50°   | 0.0  | 0.0  | 0.0  | 1.8  | 2.5  | 5.6  | 10.6 | 18.0 | 43.7 | 273.1 |
| 0.0  | 52.5° | 0.0  | 0.0  | 0.0  | 1.4  | 2.1  | 6.3  | 11.6 | 17.6 | 47.6 | 355.2 |
| 0.0  | 55°   | 0.0  | 0.0  | 0.0  | 0.4  | 1.1  | 8.1  | 12.7 | 17.6 | 53.6 | 375.6 |
| 0.0  | 57.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.2  | 14.4 | 18.7 | 63.4 | 367.5 |
| 0.0  | 58°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.2  | 14.8 | 18.7 | 64.1 | 360.5 |
| 0.0  | 60°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.2  | 16.2 | 20.8 | 69.1 | 321.0 |
| 0.0  | 62.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.8  | 19.4 | 26.1 | 71.9 | 252.3 |
| 0.0  | 65°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.3  | 22.9 | 28.5 | 74.0 | 200.8 |
| 0.0  | 67.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.0  | 23.6 | 28.9 | 75.0 | 160.0 |
| 0.0  | 70°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.3  | 23.3 | 31.0 | 78.6 | 130.0 |
| 0.0  | 72.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.0  | 21.1 | 34.2 | 78.6 | 115.2 |
| 0.0  | 75°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.4  | 19.7 | 38.4 | 71.5 | 99.7  |
| 0.0  | 77.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.0  | 19.4 | 44.7 | 63.8 | 82.1  |
| 0.0  | 80°   | 0.7  | 1.1  | 1.1  | 0.7  | 0.7  | 6.0  | 19.0 | 45.5 | 54.3 | 56.4  |
| 0.4  | 82.5° | 2.1  | 2.8  | 2.5  | 1.8  | 1.8  | 5.3  | 16.9 | 38.1 | 28.2 | 24.3  |
| 2.1  | 85°   | 3.9  | 4.6  | 4.6  | 3.9  | 3.9  | 4.9  | 10.6 | 13.7 | 9.5  | 7.8   |
| 3.9  | 87.5° | 5.3  | 6.0  | 6.0  | 5.3  | 5.3  | 4.9  | 4.6  | 4.2  | 3.9  | 3.9   |
| 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: SP1-2407-184-9

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-830-U-5WQ

Data in this report applies to families of products including GSS-SB1A-830-U-5WQ

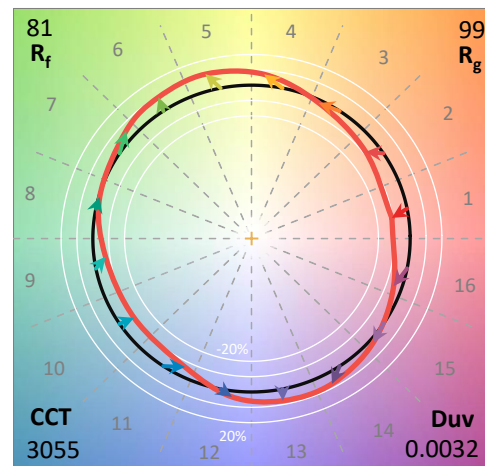
### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2407-184-9  
 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-830-U-5WQ**  
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI  
 3000K CCT 26 LEDS

### Spectral Parameters

CCT (K): 3055  
 CIE  $u'$ : 0.2475  
 CIE  $v'$ : 0.5247  
 Duv: 0.0032  
 CIE x: 0.4377  
 CIE y: 0.4124  
 CIE z: 0.1499  
 Peak Wavelength (nm): 604  
 Dominant Wavelength (nm): 581  
 Purity: 55.16339  
 R<sub>f</sub>: 81.5  
 R<sub>g</sub>: 99.2

CRI (Ra): 80.9  
 R1: 79.5  
 R2: 85.6  
 R3: 92.1  
 R4: 82.4  
 R5: 78.9  
 R6: 81.7  
 R7: 85.1  
 R8: 61.9  
 R9: 6.8  
 R10: 67.1  
 R11: 82.5  
 R12: 63.4  
 R13: 80.2  
 R14: 95.1  
 R15: 71.7



### Test Conditions

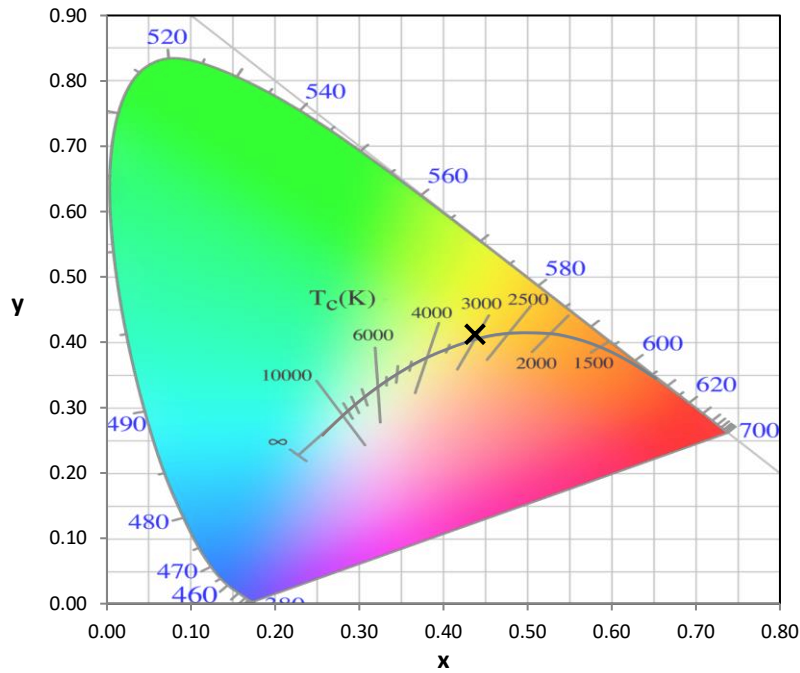
Stabilization Time: 20M  
 Operation Time: 1H 20M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-9

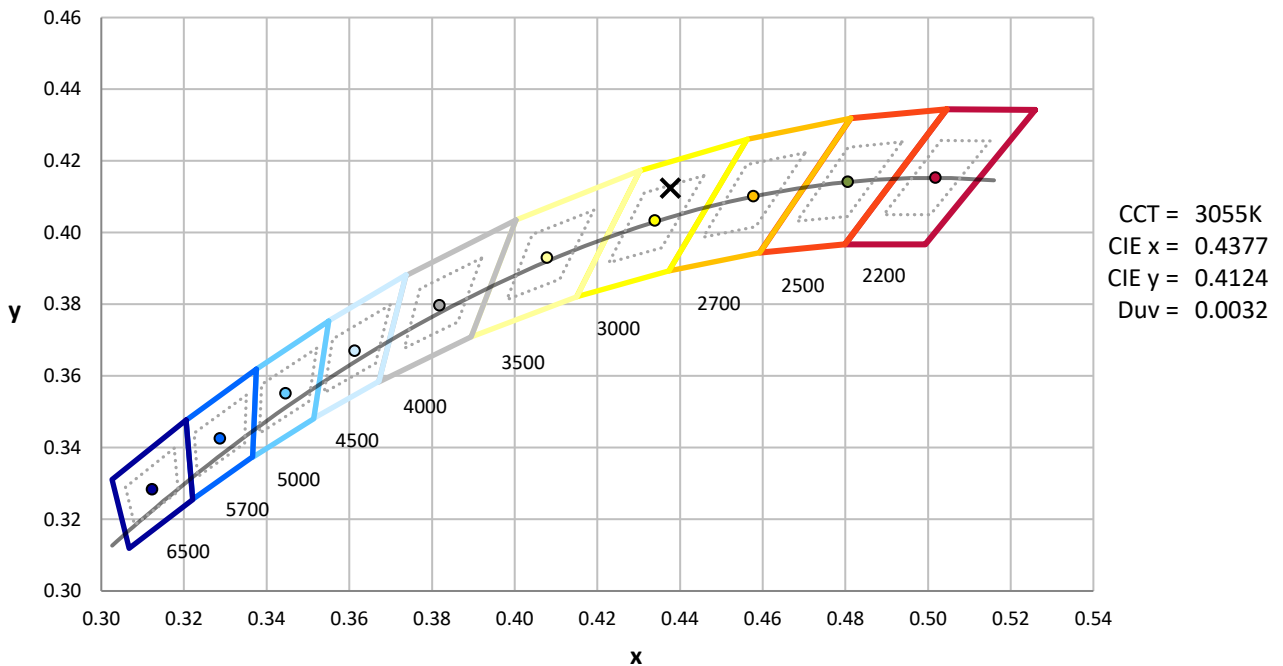
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| 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: SP1-2407-184-9

**CIE 1931 Chromaticity Diagram**



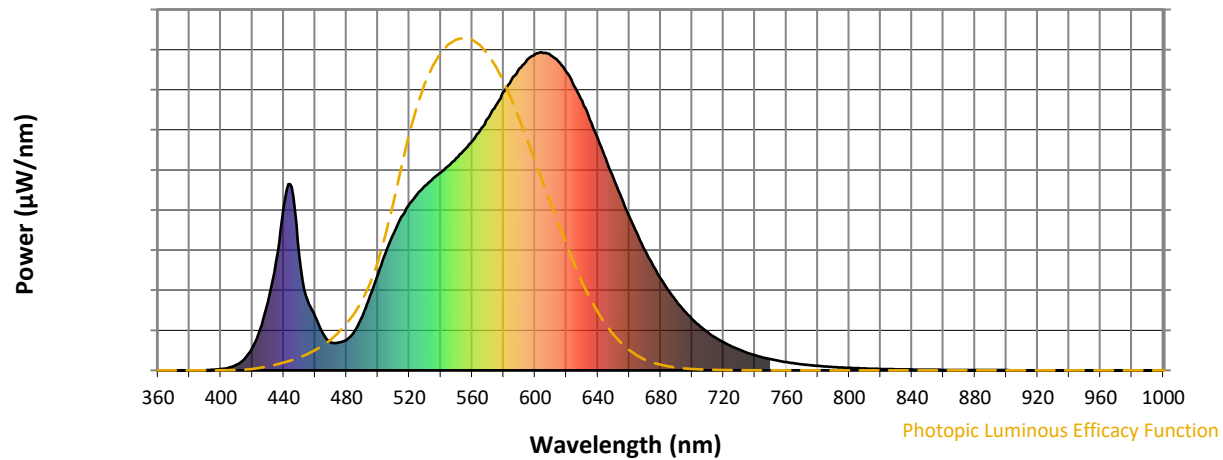
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 3000K 4-step quadrangle

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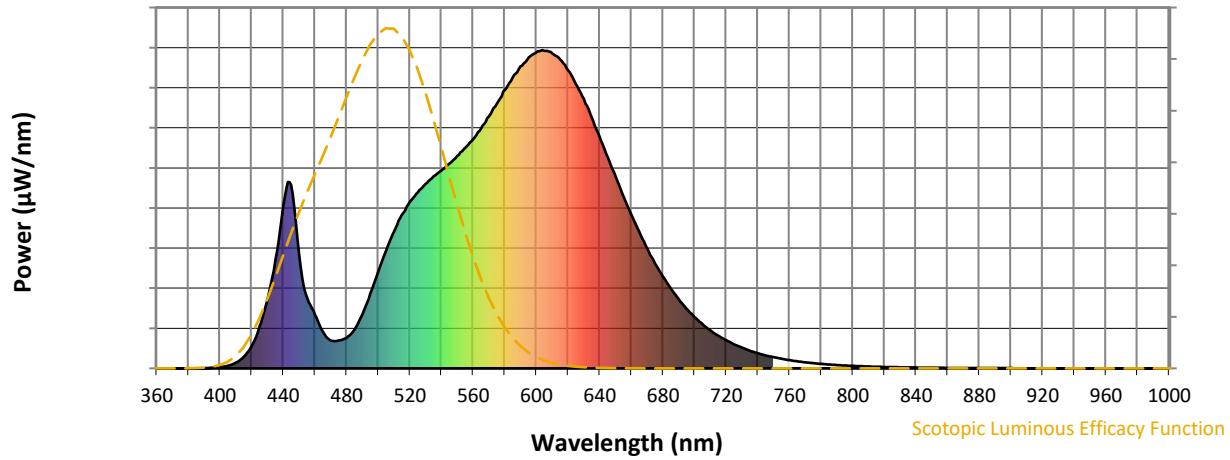
### Photopic Flux vs. Wavelength



### Photopic Lumens: NR

| $\lambda$<br>(nm) | Power<br>$\text{W}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) |
|-------------------|-------------------------------|--------------------------------|-------------------|-------------------------------|--------------------------------|-------------------|-------------------------------|--------------------------------|-------------------|-------------------------------|--------------------------------|-------------------|-------------------------------|--------------------------------|
| 360               | 0                             | NR                             | 490               | 170                           | NR                             | 620               | 938                           | NR                             | 750               | 35                            | NR                             | 880               | 1                             | NR                             |
| 365               | 0                             | NR                             | 495               | 234                           | NR                             | 625               | 894                           | NR                             | 755               | 30                            | NR                             | 885               | 1                             | NR                             |
| 370               | 0                             | NR                             | 500               | 302                           | NR                             | 630               | 847                           | NR                             | 760               | 26                            | NR                             | 890               | 1                             | NR                             |
| 375               | 0                             | NR                             | 505               | 371                           | NR                             | 635               | 788                           | NR                             | 765               | 22                            | NR                             | 895               | 1                             | NR                             |
| 380               | 0                             | NR                             | 510               | 431                           | NR                             | 640               | 728                           | NR                             | 770               | 19                            | NR                             | 900               | 1                             | NR                             |
| 385               | 0                             | NR                             | 515               | 482                           | NR                             | 645               | 665                           | NR                             | 775               | 16                            | NR                             | 905               | 1                             | NR                             |
| 390               | 0                             | NR                             | 520               | 523                           | NR                             | 650               | 603                           | NR                             | 780               | 14                            | NR                             | 910               | 0                             | NR                             |
| 395               | 2                             | NR                             | 525               | 553                           | NR                             | 655               | 542                           | NR                             | 785               | 12                            | NR                             | 915               | 0                             | NR                             |
| 400               | 4                             | NR                             | 530               | 580                           | NR                             | 660               | 484                           | NR                             | 790               | 11                            | NR                             | 920               | 0                             | NR                             |
| 405               | 8                             | NR                             | 535               | 603                           | NR                             | 665               | 430                           | NR                             | 795               | 9                             | NR                             | 925               | 0                             | NR                             |
| 410               | 18                            | NR                             | 540               | 622                           | NR                             | 670               | 377                           | NR                             | 800               | 8                             | NR                             | 930               | 0                             | NR                             |
| 415               | 36                            | NR                             | 545               | 644                           | NR                             | 675               | 330                           | NR                             | 805               | 7                             | NR                             | 935               | 0                             | NR                             |
| 420               | 71                            | NR                             | 550               | 668                           | NR                             | 680               | 289                           | NR                             | 810               | 6                             | NR                             | 940               | 0                             | NR                             |
| 425               | 131                           | NR                             | 555               | 693                           | NR                             | 685               | 250                           | NR                             | 815               | 5                             | NR                             | 945               | 0                             | NR                             |
| 430               | 215                           | NR                             | 560               | 720                           | NR                             | 690               | 218                           | NR                             | 820               | 4                             | NR                             | 950               | 0                             | NR                             |
| 435               | 341                           | NR                             | 565               | 754                           | NR                             | 695               | 188                           | NR                             | 825               | 4                             | NR                             | 955               | 0                             | NR                             |
| 440               | 514                           | NR                             | 570               | 792                           | NR                             | 700               | 161                           | NR                             | 830               | 3                             | NR                             | 960               | 0                             | NR                             |
| 445               | 576                           | NR                             | 575               | 832                           | NR                             | 705               | 139                           | NR                             | 835               | 3                             | NR                             | 965               | 0                             | NR                             |
| 450               | 358                           | NR                             | 580               | 875                           | NR                             | 710               | 119                           | NR                             | 840               | 3                             | NR                             | 970               | 0                             | NR                             |
| 455               | 222                           | NR                             | 585               | 913                           | NR                             | 715               | 102                           | NR                             | 845               | 2                             | NR                             | 975               | 0                             | NR                             |
| 460               | 170                           | NR                             | 590               | 950                           | NR                             | 720               | 88                            | NR                             | 850               | 2                             | NR                             | 980               | 0                             | NR                             |
| 465               | 115                           | NR                             | 595               | 977                           | NR                             | 725               | 76                            | NR                             | 855               | 2                             | NR                             | 985               | 0                             | NR                             |
| 470               | 88                            | NR                             | 600               | 994                           | NR                             | 730               | 65                            | NR                             | 860               | 1                             | NR                             | 990               | 0                             | NR                             |
| 475               | 87                            | NR                             | 605               | 997                           | NR                             | 735               | 56                            | NR                             | 865               | 1                             | NR                             | 995               | 0                             | NR                             |
| 480               | 96                            | NR                             | 610               | 990                           | NR                             | 740               | 47                            | NR                             | 870               | 1                             | NR                             | 1000              | 0                             | NR                             |
| 485               | 122                           | NR                             | 615               | 971                           | NR                             | 745               | 41                            | NR                             | 875               | 1                             | NR                             |                   |                               |                                |

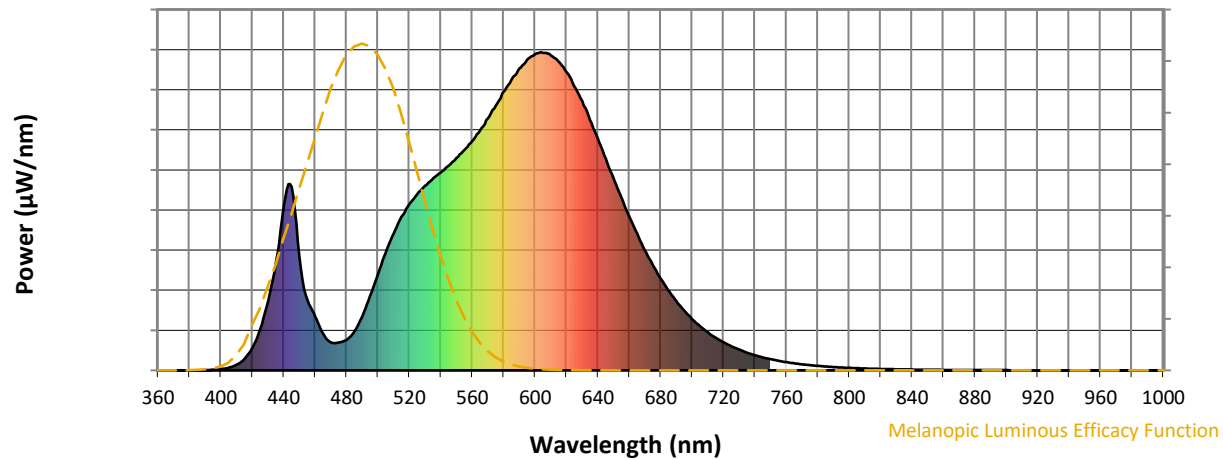
REPORT NUMBER: SP1-2407-184-9

**Scotopic Flux vs. Wavelength**

**Scotopic Lumens: NR**
**S/P: 1.28**

| λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) |
|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|
| 360       | 0                           | NR               | 490       | 170                         | NR               | 620       | 938                         | NR               | 750       | 35                          | NR               | 880       | 1                           | NR               |
| 365       | 0                           | NR               | 495       | 234                         | NR               | 625       | 894                         | NR               | 755       | 30                          | NR               | 885       | 1                           | NR               |
| 370       | 0                           | NR               | 500       | 302                         | NR               | 630       | 847                         | NR               | 760       | 26                          | NR               | 890       | 1                           | NR               |
| 375       | 0                           | NR               | 505       | 371                         | NR               | 635       | 788                         | NR               | 765       | 22                          | NR               | 895       | 1                           | NR               |
| 380       | 0                           | NR               | 510       | 431                         | NR               | 640       | 728                         | NR               | 770       | 19                          | NR               | 900       | 1                           | NR               |
| 385       | 0                           | NR               | 515       | 482                         | NR               | 645       | 665                         | NR               | 775       | 16                          | NR               | 905       | 1                           | NR               |
| 390       | 0                           | NR               | 520       | 523                         | NR               | 650       | 603                         | NR               | 780       | 14                          | NR               | 910       | 0                           | NR               |
| 395       | 2                           | NR               | 525       | 553                         | NR               | 655       | 542                         | NR               | 785       | 12                          | NR               | 915       | 0                           | NR               |
| 400       | 4                           | NR               | 530       | 580                         | NR               | 660       | 484                         | NR               | 790       | 11                          | NR               | 920       | 0                           | NR               |
| 405       | 8                           | NR               | 535       | 603                         | NR               | 665       | 430                         | NR               | 795       | 9                           | NR               | 925       | 0                           | NR               |
| 410       | 18                          | NR               | 540       | 622                         | NR               | 670       | 377                         | NR               | 800       | 8                           | NR               | 930       | 0                           | NR               |
| 415       | 36                          | NR               | 545       | 644                         | NR               | 675       | 330                         | NR               | 805       | 7                           | NR               | 935       | 0                           | NR               |
| 420       | 71                          | NR               | 550       | 668                         | NR               | 680       | 289                         | NR               | 810       | 6                           | NR               | 940       | 0                           | NR               |
| 425       | 131                         | NR               | 555       | 693                         | NR               | 685       | 250                         | NR               | 815       | 5                           | NR               | 945       | 0                           | NR               |
| 430       | 215                         | NR               | 560       | 720                         | NR               | 690       | 218                         | NR               | 820       | 4                           | NR               | 950       | 0                           | NR               |
| 435       | 341                         | NR               | 565       | 754                         | NR               | 695       | 188                         | NR               | 825       | 4                           | NR               | 955       | 0                           | NR               |
| 440       | 514                         | NR               | 570       | 792                         | NR               | 700       | 161                         | NR               | 830       | 3                           | NR               | 960       | 0                           | NR               |
| 445       | 576                         | NR               | 575       | 832                         | NR               | 705       | 139                         | NR               | 835       | 3                           | NR               | 965       | 0                           | NR               |
| 450       | 358                         | NR               | 580       | 875                         | NR               | 710       | 119                         | NR               | 840       | 3                           | NR               | 970       | 0                           | NR               |
| 455       | 222                         | NR               | 585       | 913                         | NR               | 715       | 102                         | NR               | 845       | 2                           | NR               | 975       | 0                           | NR               |
| 460       | 170                         | NR               | 590       | 950                         | NR               | 720       | 88                          | NR               | 850       | 2                           | NR               | 980       | 0                           | NR               |
| 465       | 115                         | NR               | 595       | 977                         | NR               | 725       | 76                          | NR               | 855       | 2                           | NR               | 985       | 0                           | NR               |
| 470       | 88                          | NR               | 600       | 994                         | NR               | 730       | 65                          | NR               | 860       | 1                           | NR               | 990       | 0                           | NR               |
| 475       | 87                          | NR               | 605       | 997                         | NR               | 735       | 56                          | NR               | 865       | 1                           | NR               | 995       | 0                           | NR               |
| 480       | 96                          | NR               | 610       | 990                         | NR               | 740       | 47                          | NR               | 870       | 1                           | NR               | 1000      | 0                           | NR               |
| 485       | 122                         | NR               | 615       | 971                         | NR               | 745       | 41                          | NR               | 875       | 1                           | NR               |           |                             |                  |

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### Melanopic Flux vs. Wavelength


**Melanopic Lumens: NR**
**M/P: 2.33**

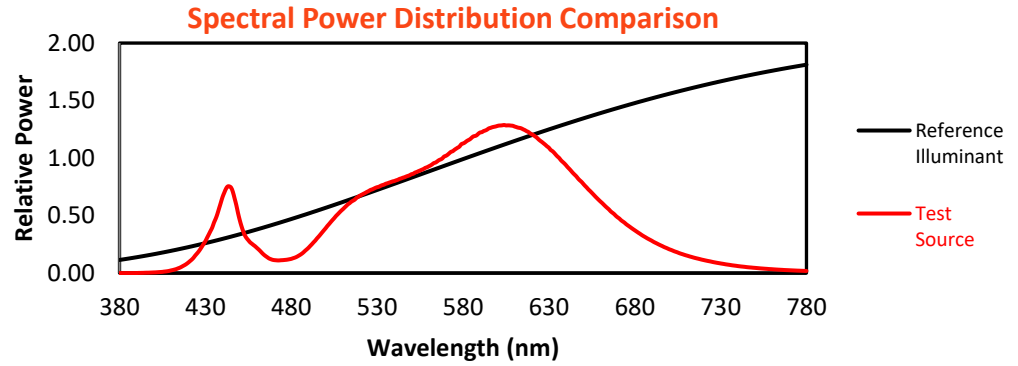
| $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<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               | 170                                  | NR                             | 620               | 938                                  | NR                             | 750               | 35                                   | NR                             | 880               | 1                                    | NR                             |
| 365               | 0                                    | NR                             | 495               | 234                                  | NR                             | 625               | 894                                  | NR                             | 755               | 30                                   | NR                             | 885               | 1                                    | NR                             |
| 370               | 0                                    | NR                             | 500               | 302                                  | NR                             | 630               | 847                                  | NR                             | 760               | 26                                   | NR                             | 890               | 1                                    | NR                             |
| 375               | 0                                    | NR                             | 505               | 371                                  | NR                             | 635               | 788                                  | NR                             | 765               | 22                                   | NR                             | 895               | 1                                    | NR                             |
| 380               | 0                                    | NR                             | 510               | 431                                  | NR                             | 640               | 728                                  | NR                             | 770               | 19                                   | NR                             | 900               | 1                                    | NR                             |
| 385               | 0                                    | NR                             | 515               | 482                                  | NR                             | 645               | 665                                  | NR                             | 775               | 16                                   | NR                             | 905               | 1                                    | NR                             |
| 390               | 0                                    | NR                             | 520               | 523                                  | NR                             | 650               | 603                                  | NR                             | 780               | 14                                   | NR                             | 910               | 0                                    | NR                             |
| 395               | 2                                    | NR                             | 525               | 553                                  | NR                             | 655               | 542                                  | NR                             | 785               | 12                                   | NR                             | 915               | 0                                    | NR                             |
| 400               | 4                                    | NR                             | 530               | 580                                  | NR                             | 660               | 484                                  | NR                             | 790               | 11                                   | NR                             | 920               | 0                                    | NR                             |
| 405               | 8                                    | NR                             | 535               | 603                                  | NR                             | 665               | 430                                  | NR                             | 795               | 9                                    | NR                             | 925               | 0                                    | NR                             |
| 410               | 18                                   | NR                             | 540               | 622                                  | NR                             | 670               | 377                                  | NR                             | 800               | 8                                    | NR                             | 930               | 0                                    | NR                             |
| 415               | 36                                   | NR                             | 545               | 644                                  | NR                             | 675               | 330                                  | NR                             | 805               | 7                                    | NR                             | 935               | 0                                    | NR                             |
| 420               | 71                                   | NR                             | 550               | 668                                  | NR                             | 680               | 289                                  | NR                             | 810               | 6                                    | NR                             | 940               | 0                                    | NR                             |
| 425               | 131                                  | NR                             | 555               | 693                                  | NR                             | 685               | 250                                  | NR                             | 815               | 5                                    | NR                             | 945               | 0                                    | NR                             |
| 430               | 215                                  | NR                             | 560               | 720                                  | NR                             | 690               | 218                                  | NR                             | 820               | 4                                    | NR                             | 950               | 0                                    | NR                             |
| 435               | 341                                  | NR                             | 565               | 754                                  | NR                             | 695               | 188                                  | NR                             | 825               | 4                                    | NR                             | 955               | 0                                    | NR                             |
| 440               | 514                                  | NR                             | 570               | 792                                  | NR                             | 700               | 161                                  | NR                             | 830               | 3                                    | NR                             | 960               | 0                                    | NR                             |
| 445               | 576                                  | NR                             | 575               | 832                                  | NR                             | 705               | 139                                  | NR                             | 835               | 3                                    | NR                             | 965               | 0                                    | NR                             |
| 450               | 358                                  | NR                             | 580               | 875                                  | NR                             | 710               | 119                                  | NR                             | 840               | 3                                    | NR                             | 970               | 0                                    | NR                             |
| 455               | 222                                  | NR                             | 585               | 913                                  | NR                             | 715               | 102                                  | NR                             | 845               | 2                                    | NR                             | 975               | 0                                    | NR                             |
| 460               | 170                                  | NR                             | 590               | 950                                  | NR                             | 720               | 88                                   | NR                             | 850               | 2                                    | NR                             | 980               | 0                                    | NR                             |
| 465               | 115                                  | NR                             | 595               | 977                                  | NR                             | 725               | 76                                   | NR                             | 855               | 2                                    | NR                             | 985               | 0                                    | NR                             |
| 470               | 88                                   | NR                             | 600               | 994                                  | NR                             | 730               | 65                                   | NR                             | 860               | 1                                    | NR                             | 990               | 0                                    | NR                             |
| 475               | 87                                   | NR                             | 605               | 997                                  | NR                             | 735               | 56                                   | NR                             | 865               | 1                                    | NR                             | 995               | 0                                    | NR                             |
| 480               | 96                                   | NR                             | 610               | 990                                  | NR                             | 740               | 47                                   | NR                             | 870               | 1                                    | NR                             | 1000              | 0                                    | NR                             |
| 485               | 122                                  | NR                             | 615               | 971                                  | NR                             | 745               | 41                                   | NR                             | 875               | 1                                    | NR                             |                   |                                      |                                |

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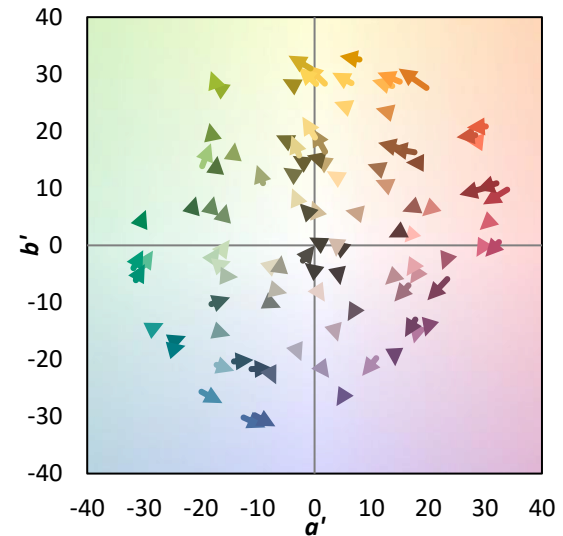
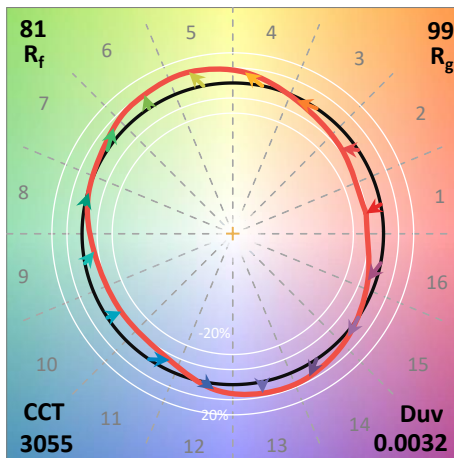
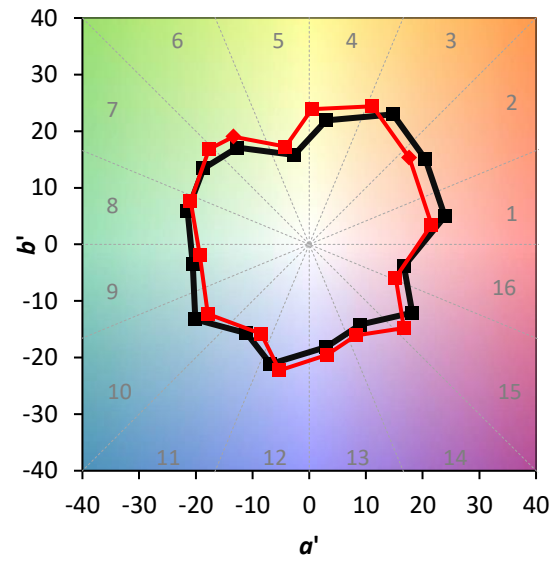
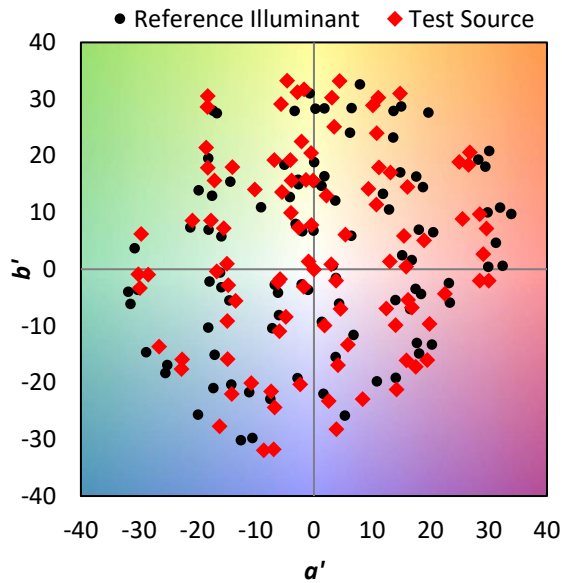
TM-30-18

### Summary

$R_f = 81.5$   
 $R_g = 99.2$   
 $CIE R_a = 80.9$   
 $R_9 = 6.8$

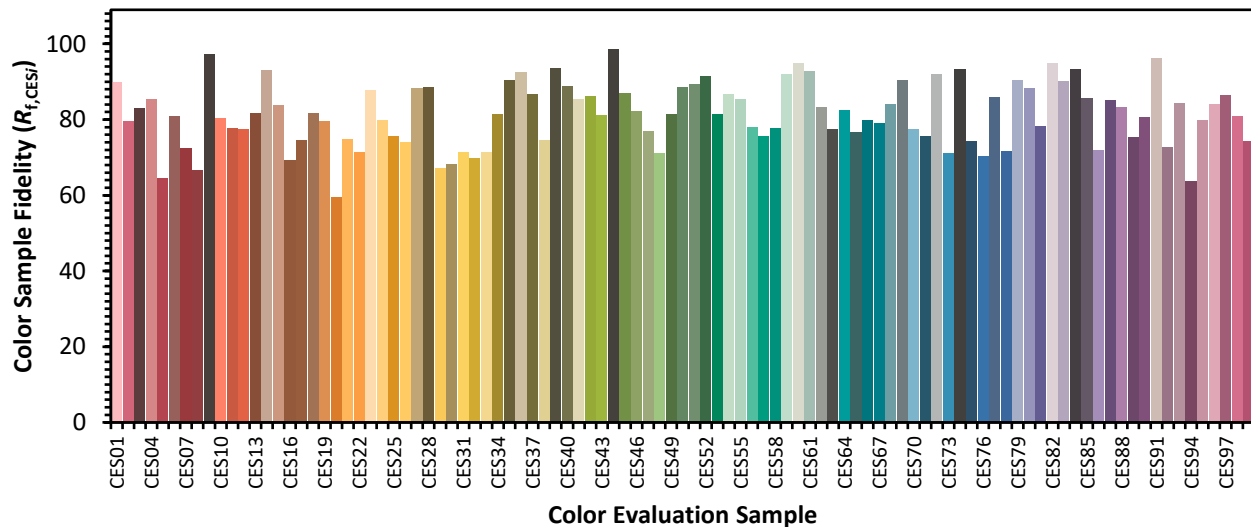


### Color Vector Graphics

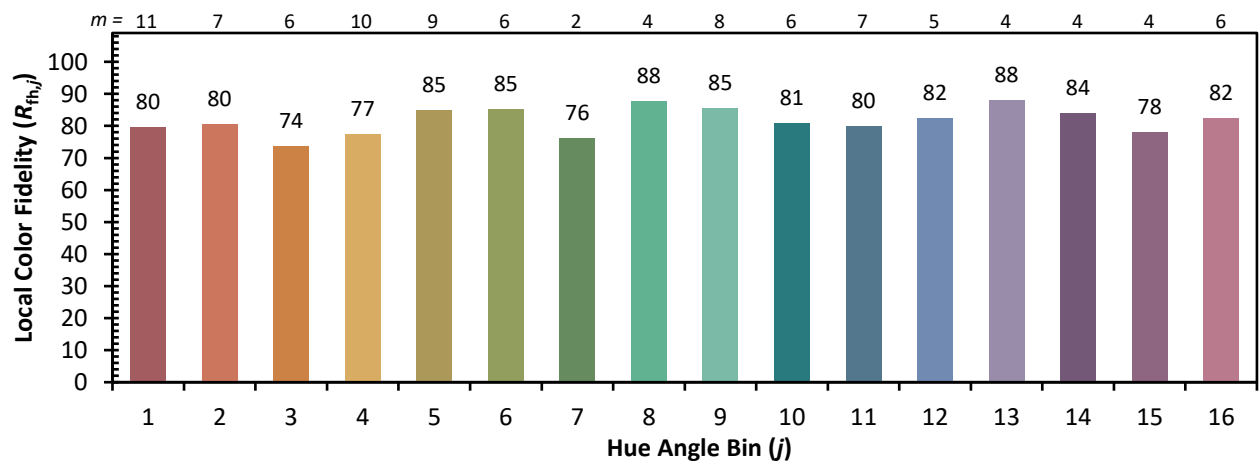
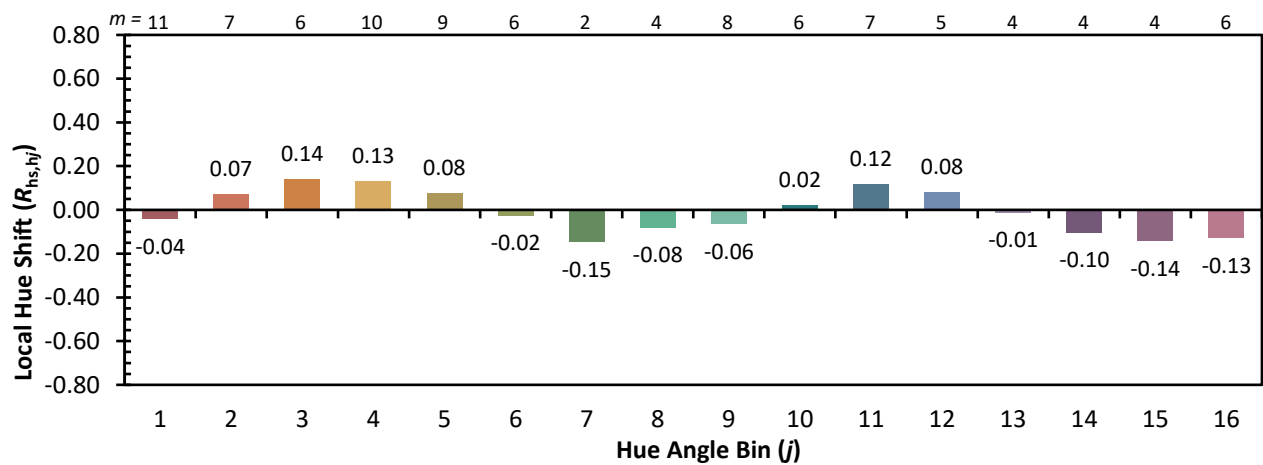
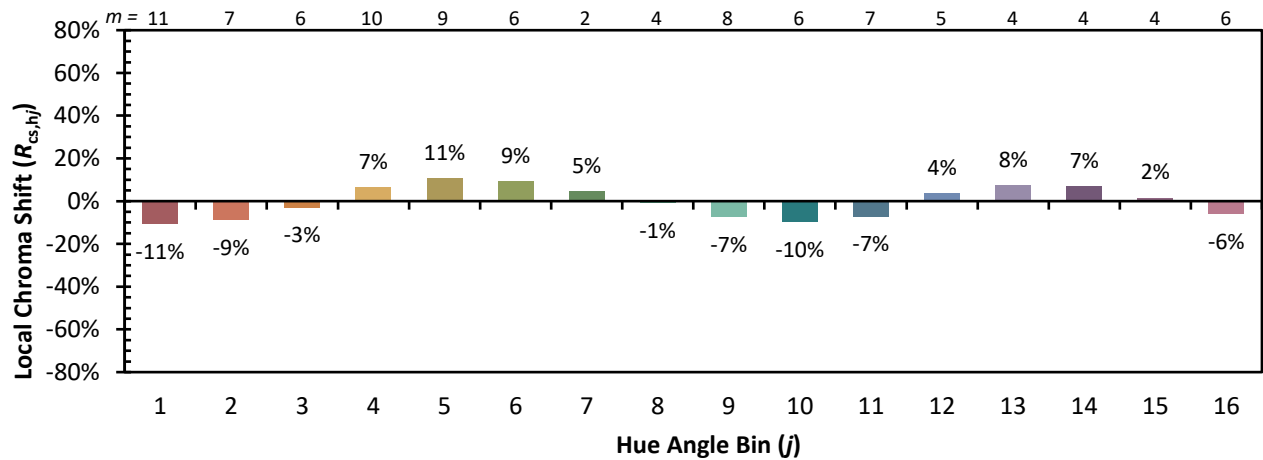


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

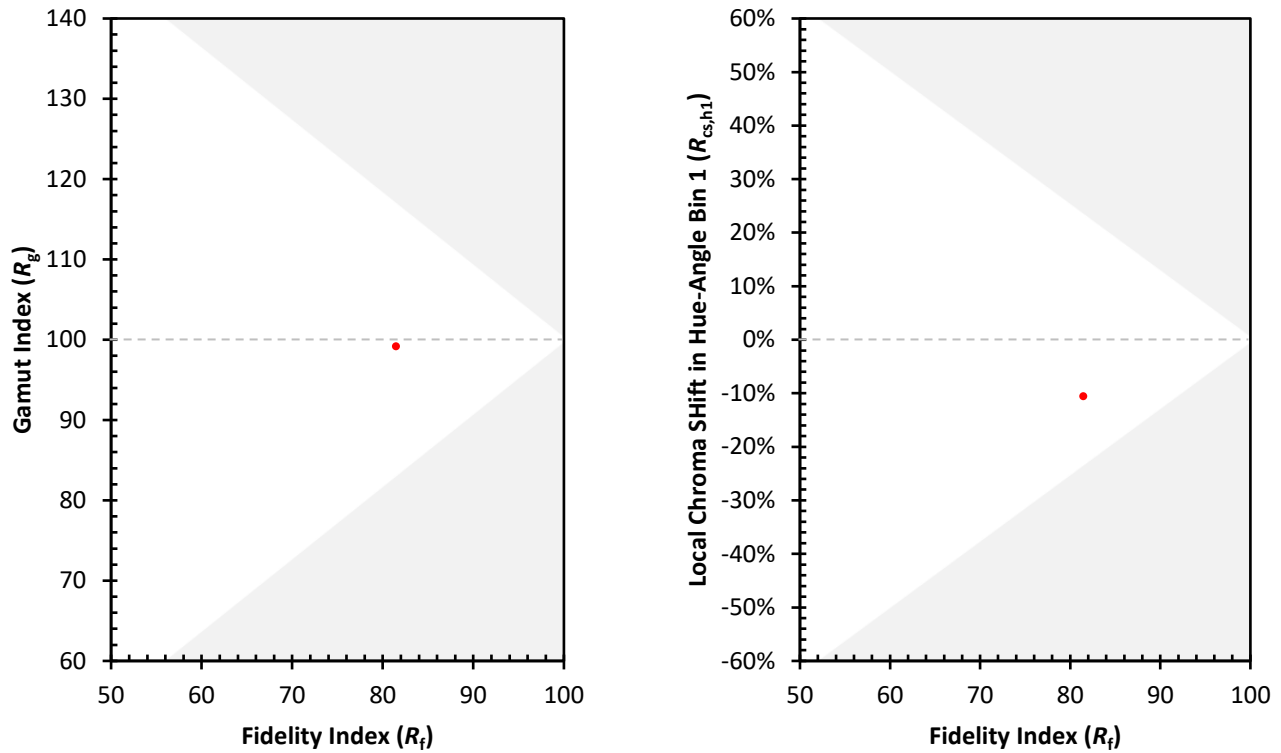
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 74 | CES51 = 89 | CES76 = 70 |
| CES02 = 63 | CES27 = 88 | CES52 = 91 | CES77 = 86 |
| CES03 = 31 | CES28 = 89 | CES53 = 81 | CES78 = 72 |
| CES04 = 70 | CES29 = 67 | CES54 = 87 | CES79 = 90 |
| CES05 = 50 | CES30 = 68 | CES55 = 85 | CES80 = 88 |
| CES06 = 51 | CES31 = 71 | CES56 = 78 | CES81 = 78 |
| CES07 = 42 | CES32 = 70 | CES57 = 76 | CES82 = 95 |
| CES08 = 41 | CES33 = 71 | CES58 = 78 | CES83 = 90 |
| CES09 = 29 | CES34 = 82 | CES59 = 92 | CES84 = 93 |
| CES10 = 76 | CES35 = 90 | CES60 = 95 | CES85 = 86 |
| CES11 = 59 | CES36 = 93 | CES61 = 93 | CES86 = 72 |
| CES12 = 65 | CES37 = 87 | CES62 = 83 | CES87 = 85 |
| CES13 = 43 | CES38 = 75 | CES63 = 77 | CES88 = 83 |
| CES14 = 74 | CES39 = 94 | CES64 = 83 | CES89 = 75 |
| CES15 = 71 | CES40 = 89 | CES65 = 77 | CES90 = 81 |
| CES16 = 47 | CES41 = 85 | CES66 = 80 | CES91 = 96 |
| CES17 = 50 | CES42 = 86 | CES67 = 79 | CES92 = 73 |
| CES18 = 56 | CES43 = 81 | CES68 = 84 | CES93 = 84 |
| CES19 = 72 | CES44 = 99 | CES69 = 90 | CES94 = 64 |
| CES20 = 66 | CES45 = 87 | CES70 = 77 | CES95 = 80 |
| CES21 = 87 | CES46 = 82 | CES71 = 76 | CES96 = 84 |
| CES22 = 79 | CES47 = 77 | CES72 = 92 | CES97 = 87 |
| CES23 = 92 | CES48 = 71 | CES73 = 71 | CES98 = 81 |
| CES24 = 91 | CES49 = 81 | CES74 = 93 | CES99 = 74 |
| CES25 = 72 | CES50 = 89 | CES75 = 74 |            |



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)