

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: P1065381

Luminaire Tested: **GLAN-SA9A-827-U-LBC**

Issue Date: 08/07/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1065381  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 08/07/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9A-827-U-LBC  
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 9xLight Square PACKAGE  
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (126) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25248.9 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G4

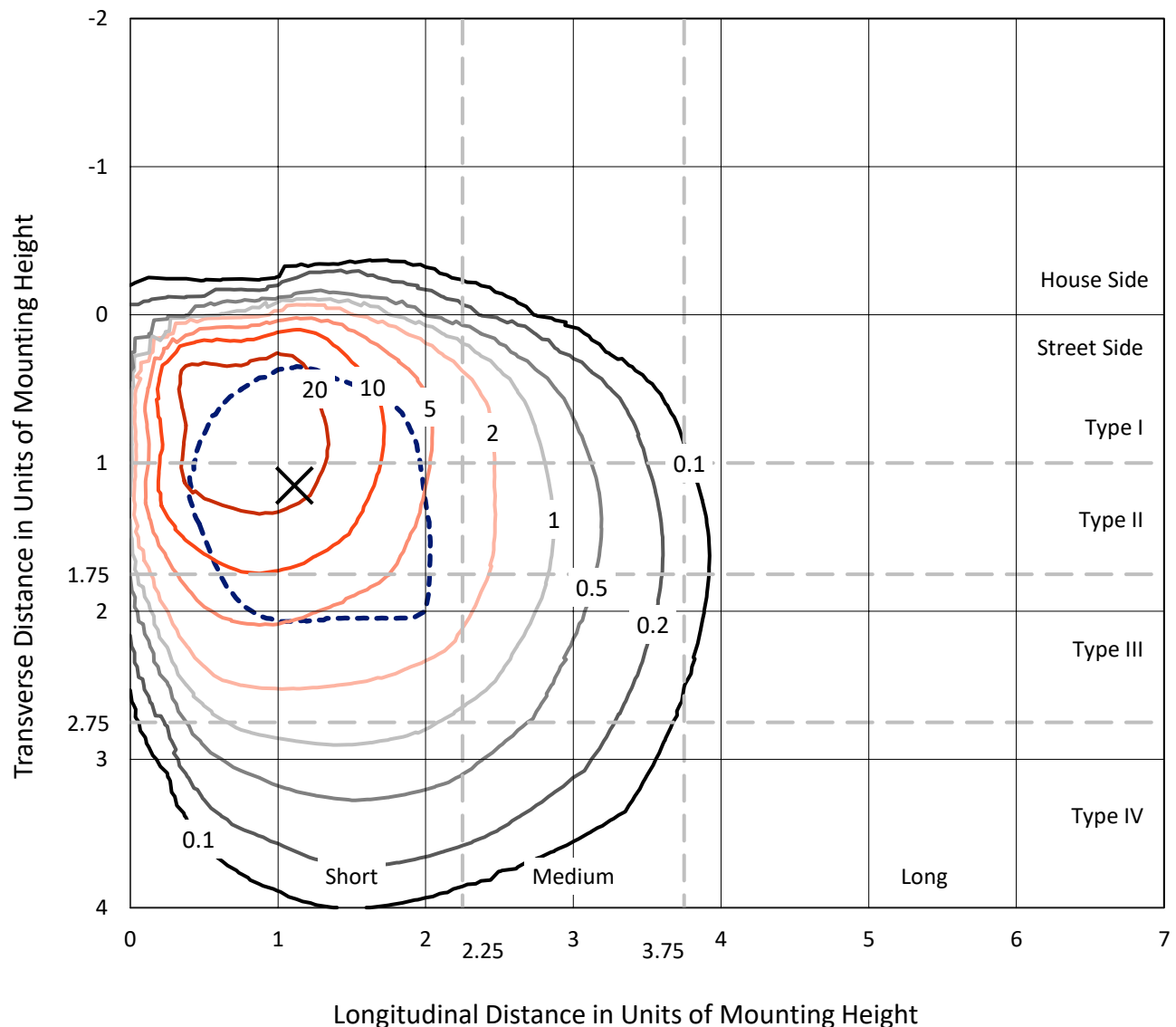
Input Watts (W): 244.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.97  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

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## Iso-Footcandle Lines of Horizontal Illumination

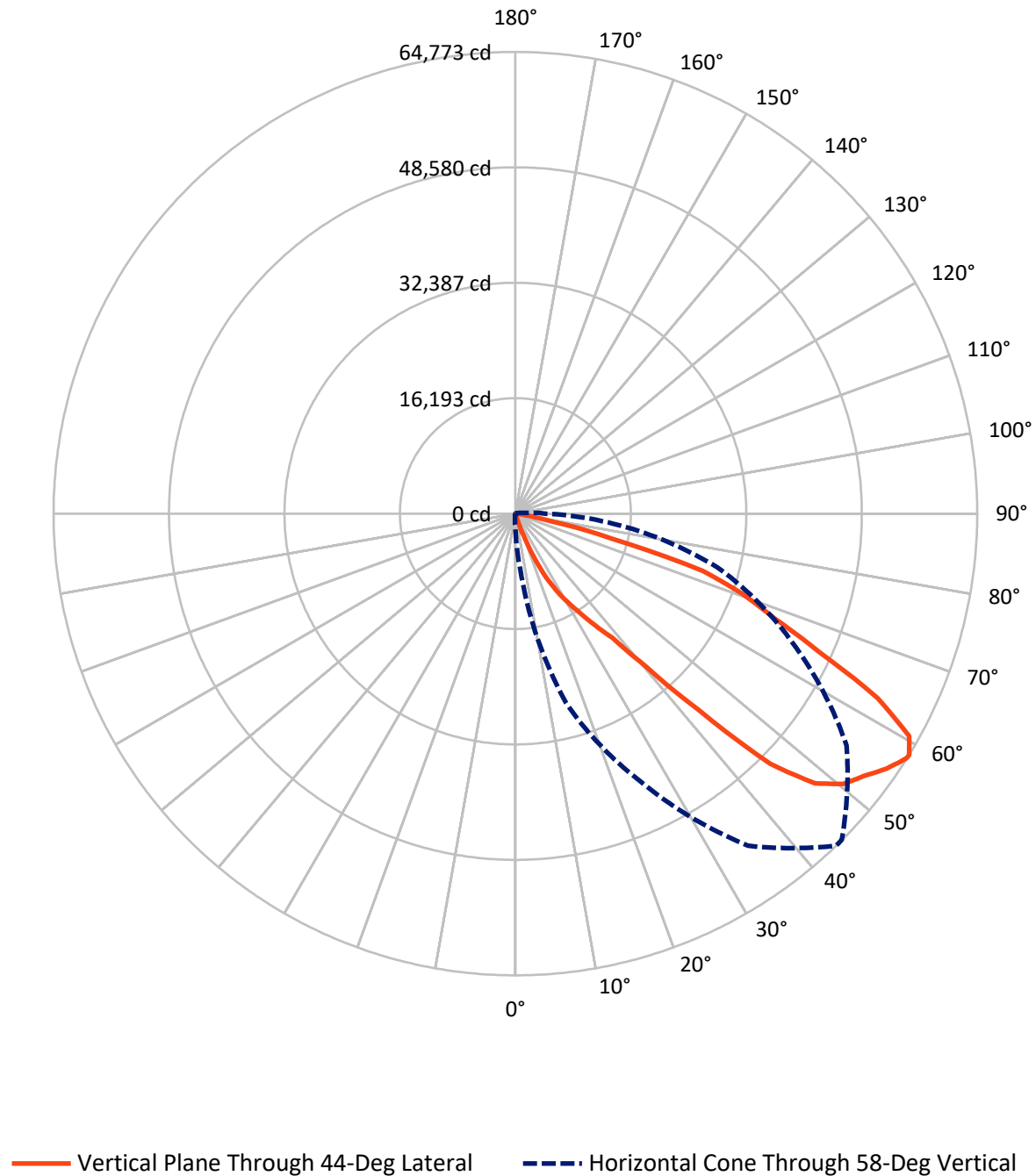
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 44 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    | 172.4    | 0.0    | 172.4   |
|                    | % Fixture | 0.7      | 0.0    | 0.7     |
| <b>Street Side</b> | Lumens    | 25076.5  | 0.0    | 25076.5 |
|                    | % Fixture | 99.3     | 0.0    | 99.3    |
| <b>Total</b>       | Lumens    | 25248.9  | 0.0    | 25248.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 9.9     | 0.0       |
| 10°-20°   | 55.4    | 0.2       |
| 20°-30°   | 598.1   | 2.4       |
| 30°-40°   | 1768.9  | 7.0       |
| 40°-50°   | 5272.4  | 20.9      |
| 50°-60°   | 8366.0  | 33.1      |
| 60°-70°   | 6978.2  | 27.6      |
| 70°-80°   | 2152.2  | 8.5       |
| 80°-90°   | 47.8    | 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°    | 25248.9 | 100.0     |
| 0°-180°   | 25248.9 | 100.0     |



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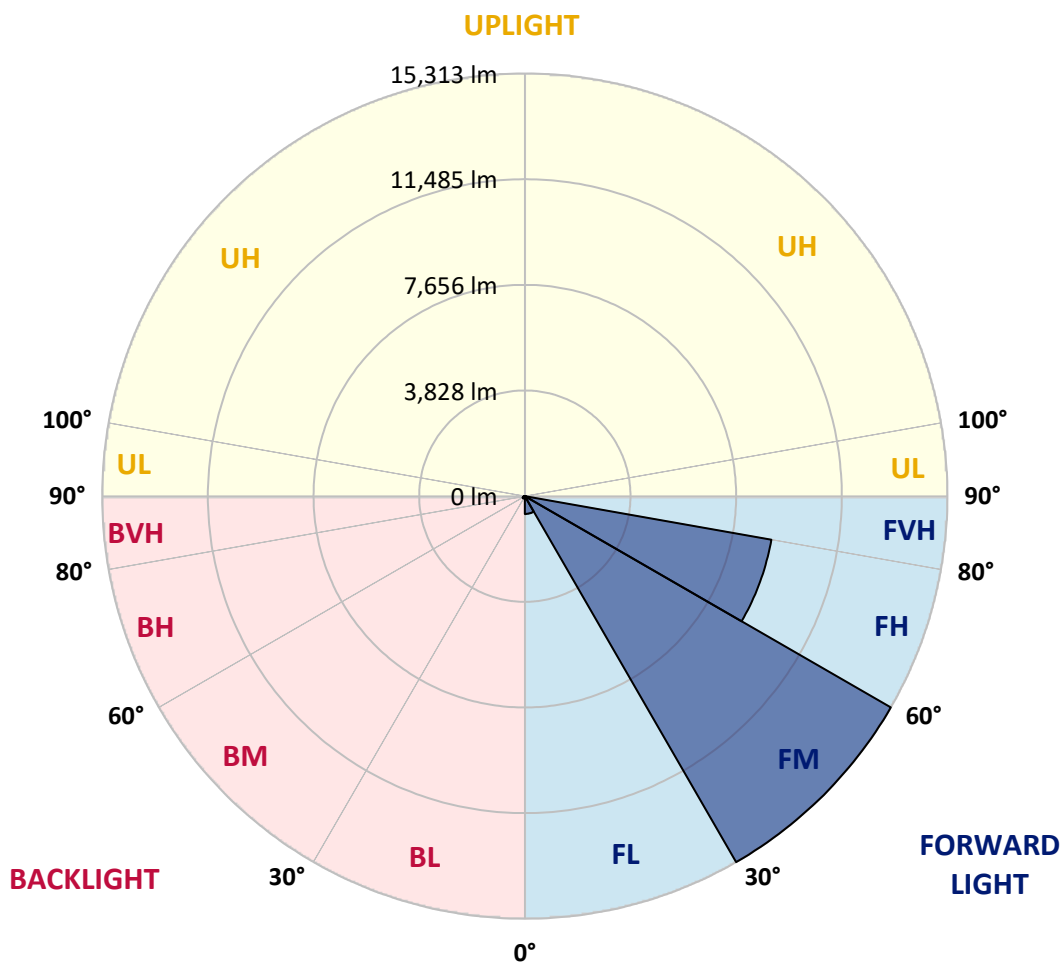
CATALOG NUMBER: GLAN-SA9A-827-U-LBC

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 646.5   | 2.6       |                         |      |          |
| FM   | (30°-60°)   | 15312.9 | 60.6      |                         |      |          |
| FH   | (60°-80°)   | 9071.6  | 35.9      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 45.5    | 0.2       |                         |      | G1/100   |
| BL   | (0°-30°)    | 16.9    | 0.1       | B0/110                  |      |          |
| BM   | (30°-60°)   | 94.4    | 0.4       | B0/220                  |      |          |
| BH   | (60°-80°)   | 58.9    | 0.2       | B0/110                  |      | G0/110   |
| BVH  | (80°-90°)   | 2.3     | 0.0       |                         |      | G0/10    |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

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

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°     | 25°     | 35°     | 44°     | 45°     | 55°     | 65°     | 75°     |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 110.6  | 110.6  | 110.6   | 110.6   | 110.6   | 110.6   | 110.6   | 110.6   | 110.6   | 110.6   |
| 2.5°  | 143.1  | 143.1  | 137.3   | 129.7   | 122.1   | 114.4   | 112.5   | 108.7   | 106.8   | 104.9   |
| 5°    | 148.8  | 148.8  | 146.9   | 141.1   | 133.5   | 127.8   | 127.8   | 122.1   | 118.3   | 114.4   |
| 7.5°  | 152.6  | 154.5  | 158.3   | 156.4   | 152.6   | 146.9   | 146.9   | 143.1   | 137.3   | 127.8   |
| 10°   | 158.3  | 164.0  | 171.7   | 175.5   | 177.4   | 177.4   | 175.5   | 173.6   | 164.0   | 150.7   |
| 12.5° | 164.0  | 175.5  | 194.5   | 213.6   | 225.1   | 240.3   | 238.4   | 234.6   | 209.8   | 181.2   |
| 15°   | 175.5  | 192.6  | 232.7   | 288.0   | 373.8   | 427.2   | 448.2   | 429.2   | 347.1   | 244.1   |
| 17.5° | 188.8  | 217.4  | 337.6   | 602.7   | 988.0   | 1171.1  | 1281.7  | 1192.1  | 789.6   | 463.5   |
| 20°   | 202.2  | 265.1  | 627.5   | 1562.1  | 2563.5  | 3162.4  | 3328.3  | 3068.9  | 1970.3  | 883.1   |
| 22.5° | 225.1  | 371.9  | 1272.2  | 3229.1  | 5523.7  | 6422.0  | 6591.8  | 5762.1  | 3721.2  | 1743.3  |
| 25°   | 272.7  | 539.8  | 2193.4  | 5262.4  | 8243.5  | 9759.9  | 9689.3  | 8602.1  | 6036.7  | 2784.7  |
| 27.5° | 341.4  | 785.8  | 3316.9  | 7476.8  | 10849.0 | 12186.0 | 12346.2 | 11001.5 | 8047.1  | 4095.1  |
| 30°   | 440.6  | 1089.1 | 4522.3  | 9250.6  | 12937.5 | 14383.3 | 14410.0 | 13019.5 | 9845.7  | 5245.2  |
| 32.5° | 536.0  | 1375.2 | 5577.1  | 10965.3 | 14995.5 | 16580.5 | 16698.8 | 14987.9 | 11188.5 | 6443.0  |
| 35°   | 608.4  | 1562.1 | 6645.2  | 12472.1 | 17070.7 | 19254.6 | 19247.0 | 17215.7 | 12779.2 | 7513.0  |
| 37.5° | 614.2  | 1749.0 | 7612.2  | 14013.2 | 19699.0 | 22144.2 | 22386.5 | 20147.3 | 14701.8 | 8836.7  |
| 40°   | 600.8  | 1958.8 | 8836.7  | 16416.5 | 24435.0 | 28186.7 | 28400.3 | 25577.5 | 18558.4 | 11102.6 |
| 42.5° | 616.1  | 2323.1 | 10824.2 | 20854.9 | 32298.9 | 37687.2 | 38099.2 | 35131.3 | 25648.0 | 15726.0 |
| 45°   | 696.2  | 3007.9 | 14987.9 | 28280.2 | 43508.4 | 50077.3 | 49939.9 | 45665.6 | 33897.3 | 22764.1 |
| 47.5° | 961.3  | 4684.4 | 21160.0 | 35507.1 | 50672.3 | 56522.2 | 56640.4 | 51416.2 | 38711.4 | 28175.3 |
| 50°   | 1478.2 | 7167.8 | 26346.1 | 39327.5 | 53752.7 | 59621.6 | 59511.0 | 53474.2 | 40540.5 | 30839.8 |
| 52.5° | 1922.6 | 8964.5 | 28947.7 | 40668.3 | 54147.5 | 61153.2 | 61145.6 | 54015.9 | 40824.7 | 31068.7 |
| 55°   | 2033.2 | 9099.9 | 28968.7 | 40740.8 | 55032.5 | 63157.8 | 63409.6 | 55349.2 | 41192.9 | 30069.2 |
| 57.5° | 1989.4 | 8056.6 | 27759.5 | 41160.4 | 56608.0 | 64708.5 | 64721.8 | 56640.4 | 42127.5 | 29457.0 |
| 58°   | 1951.2 | 7892.6 | 27515.3 | 41398.9 | 56878.8 | 64773.3 | 64740.9 | 56699.5 | 42888.5 | 29434.1 |
| 60°   | 1737.6 | 6853.1 | 26563.5 | 42007.3 | 56476.4 | 63442.0 | 63138.7 | 55408.3 | 42776.0 | 29199.5 |
| 62.5° | 1365.7 | 5346.3 | 25627.0 | 41303.5 | 52162.0 | 56997.1 | 57123.0 | 49054.9 | 38995.6 | 27831.9 |
| 65°   | 1087.2 | 3984.4 | 23673.9 | 36230.0 | 42953.3 | 46806.2 | 47275.4 | 39890.1 | 32548.8 | 23567.1 |
| 67.5° | 865.9  | 2880.1 | 19859.2 | 28844.7 | 33988.8 | 39064.3 | 39405.7 | 33491.0 | 25217.0 | 18056.8 |
| 70°   | 703.8  | 1947.4 | 13708.1 | 21095.2 | 28034.1 | 33740.9 | 33761.9 | 27822.4 | 18821.6 | 11831.2 |
| 72.5° | 623.7  | 1348.5 | 7957.4  | 15384.6 | 22731.7 | 27494.3 | 26939.3 | 22577.2 | 14465.3 | 7007.6  |
| 75°   | 539.8  | 894.5  | 3902.4  | 9405.1  | 13782.5 | 13875.9 | 14087.6 | 10473.2 | 7230.7  | 3332.1  |
| 77.5° | 444.4  | 635.1  | 1537.3  | 2569.2  | 4133.2  | 5291.0  | 5487.4  | 4158.0  | 2405.2  | 820.2   |
| 80°   | 305.2  | 301.4  | 413.9   | 787.7   | 1182.6  | 1482.0  | 1382.8  | 1070.0  | 629.4   | 314.7   |
| 82.5° | 131.6  | 143.1  | 186.9   | 225.1   | 183.1   | 177.4   | 169.8   | 108.7   | 83.9    | 64.8    |
| 85°   | 42.0   | 38.1   | 40.1    | 40.1    | 32.4    | 24.8    | 24.8    | 11.4    | 0.0     | 0.0     |
| 87.5° | 21.0   | 17.2   | 17.2    | 15.3    | 9.5     | 3.8     | 1.9     | 0.0     | 0.0     | 0.0     |
| 90°   | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



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**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  |
|---------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110.6   | 0°    | 110.6  | 110.6  | 110.6 | 110.6 | 110.6 | 110.6 | 110.6 | 110.6 | 110.6 | 110.6 |
| 103.0   | 2.5°  | 101.1  | 101.1  | 97.3  | 93.5  | 91.6  | 87.7  | 85.8  | 83.9  | 82.0  | 80.1  |
| 110.6   | 5°    | 106.8  | 104.9  | 99.2  | 93.5  | 87.7  | 82.0  | 78.2  | 74.4  | 70.6  | 68.7  |
| 122.1   | 7.5°  | 116.3  | 112.5  | 101.1 | 91.6  | 83.9  | 76.3  | 72.5  | 66.8  | 62.9  | 57.2  |
| 135.4   | 10°   | 127.8  | 120.2  | 104.9 | 93.5  | 82.0  | 72.5  | 66.8  | 61.0  | 55.3  | 47.7  |
| 154.5   | 12.5° | 143.1  | 129.7  | 110.6 | 91.6  | 78.2  | 66.8  | 61.0  | 53.4  | 47.7  | 42.0  |
| 179.3   | 15°   | 156.4  | 139.2  | 112.5 | 91.6  | 74.4  | 61.0  | 53.4  | 45.8  | 40.1  | 32.4  |
| 225.1   | 17.5° | 175.5  | 146.9  | 110.6 | 85.8  | 68.7  | 53.4  | 45.8  | 40.1  | 30.5  | 19.1  |
| 333.8   | 20°   | 207.9  | 152.6  | 106.8 | 80.1  | 59.1  | 43.9  | 34.3  | 26.7  | 13.4  | 3.8   |
| 501.6   | 22.5° | 259.4  | 167.8  | 103.0 | 72.5  | 51.5  | 34.3  | 22.9  | 9.5   | 0.0   | 0.0   |
| 762.9   | 25°   | 358.6  | 194.5  | 103.0 | 68.7  | 45.8  | 24.8  | 7.6   | 0.0   | 0.0   | 0.0   |
| 1083.4  | 27.5° | 476.8  | 230.8  | 103.0 | 59.1  | 36.2  | 13.4  | 0.0   | 0.0   | 0.0   | 0.0   |
| 1476.3  | 30°   | 597.0  | 270.8  | 103.0 | 51.5  | 28.6  | 1.9   | 0.0   | 0.0   | 0.0   | 0.0   |
| 1817.7  | 32.5° | 711.4  | 305.2  | 104.9 | 43.9  | 19.1  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 2290.7  | 35°   | 827.8  | 310.9  | 103.0 | 38.1  | 11.4  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 2870.5  | 37.5° | 976.6  | 299.5  | 97.3  | 34.3  | 5.7   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 3776.5  | 40°   | 1201.6 | 305.2  | 91.6  | 32.4  | 1.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 5392.1  | 42.5° | 1617.4 | 330.0  | 83.9  | 32.4  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 8588.8  | 45°   | 2796.2 | 442.5  | 76.3  | 34.3  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 12893.6 | 47.5° | 4625.3 | 795.4  | 74.4  | 34.3  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 15531.5 | 50°   | 5903.2 | 1001.4 | 78.2  | 36.2  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 15861.5 | 52.5° | 5893.7 | 1115.8 | 82.0  | 38.1  | 7.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 14619.8 | 55°   | 5239.5 | 1136.8 | 87.7  | 42.0  | 24.8  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 12563.7 | 57.5° | 4379.3 | 1037.6 | 101.1 | 51.5  | 45.8  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 12241.3 | 58°   | 4226.7 | 991.8  | 104.9 | 53.4  | 49.6  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 10618.2 | 60°   | 3463.7 | 808.7  | 133.5 | 66.8  | 66.8  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 8705.1  | 62.5° | 2391.8 | 705.7  | 152.6 | 85.8  | 68.7  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 6418.2  | 65°   | 1691.8 | 637.1  | 165.9 | 91.6  | 55.3  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 4560.5  | 67.5° | 1264.6 | 587.5  | 183.1 | 93.5  | 28.6  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 2861.0  | 70°   | 968.9  | 551.2  | 225.1 | 99.2  | 7.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 1705.2  | 72.5° | 789.6  | 509.3  | 272.7 | 103.0 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 1022.3  | 75°   | 654.2  | 459.7  | 263.2 | 112.5 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 545.5   | 77.5° | 434.9  | 356.7  | 240.3 | 112.5 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 194.5   | 80°   | 152.6  | 141.1  | 186.9 | 99.2  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 40.1    | 82.5° | 22.9   | 19.1   | 26.7  | 34.3  | 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°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110.6 | 0°    | 110.6 | 110.6 | 110.6 | 110.6 | 110.6 | 110.6 | 110.6 | 110.6 | 110.6 | 110.6 |
| 78.2  | 2.5°  | 78.2  | 78.2  | 76.3  | 78.2  | 78.2  | 82.0  | 91.6  | 104.9 | 120.2 | 125.9 |
| 66.8  | 5°    | 64.8  | 62.9  | 61.0  | 61.0  | 61.0  | 66.8  | 74.4  | 89.6  | 106.8 | 114.4 |
| 55.3  | 7.5°  | 53.4  | 51.5  | 49.6  | 47.7  | 47.7  | 51.5  | 61.0  | 78.2  | 95.4  | 103.0 |
| 45.8  | 10°   | 43.9  | 40.1  | 38.1  | 36.2  | 36.2  | 40.1  | 49.6  | 66.8  | 85.8  | 93.5  |
| 38.1  | 12.5° | 36.2  | 30.5  | 26.7  | 24.8  | 22.9  | 28.6  | 38.1  | 53.4  | 74.4  | 83.9  |
| 28.6  | 15°   | 24.8  | 19.1  | 13.4  | 11.4  | 9.5   | 15.3  | 24.8  | 42.0  | 62.9  | 74.4  |
| 15.3  | 17.5° | 13.4  | 5.7   | 1.9   | 0.0   | 0.0   | 3.8   | 11.4  | 30.5  | 51.5  | 61.0  |
| 0.0   | 20°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 15.3  | 38.1  | 47.7  |
| 0.0   | 22.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 1.9   | 22.9  | 32.4  |
| 0.0   | 25°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 9.5   | 17.2  |
| 0.0   | 27.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 3.8   |
| 0.0   | 30°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 32.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 35°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 37.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 40°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 42.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 45°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 47.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 50°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 52.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 55°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 57.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 58°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 60°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 62.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 65°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 80°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 5.7   |
| 0.0   | 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 7.6   | 15.3  |
| 0.0   | 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

REPORT NUMBER: P1065381

CATALOG NUMBER: GLAN-SA9A-827-U-LBC

**CANDELA DISTRIBUTION (continued):**

| 275°  |       | 285°  | 295°  | 305°  | 315°  | 316°  | 325°  | 335°  | 345°  | 355°  | 360°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 110.6 | 0°    | 110.6 | 110.6 | 110.6 | 110.6 | 110.6 | 110.6 | 110.6 | 110.6 | 110.6 | 110.6  |
| 131.6 | 2.5°  | 135.4 | 133.5 | 129.7 | 125.9 | 125.9 | 125.9 | 131.6 | 137.3 | 143.1 | 143.1  |
| 118.3 | 5°    | 125.9 | 125.9 | 124.0 | 120.2 | 120.2 | 122.1 | 129.7 | 139.2 | 146.9 | 148.8  |
| 108.7 | 7.5°  | 116.3 | 120.2 | 116.3 | 114.4 | 116.3 | 118.3 | 125.9 | 137.3 | 148.8 | 152.6  |
| 101.1 | 10°   | 110.6 | 112.5 | 112.5 | 110.6 | 110.6 | 114.4 | 122.1 | 137.3 | 152.6 | 158.3  |
| 91.6  | 12.5° | 103.0 | 106.8 | 104.9 | 104.9 | 104.9 | 108.7 | 118.3 | 135.4 | 156.4 | 164.0  |
| 82.0  | 15°   | 95.4  | 101.1 | 101.1 | 99.2  | 99.2  | 101.1 | 114.4 | 133.5 | 162.1 | 175.5  |
| 70.6  | 17.5° | 87.7  | 93.5  | 95.4  | 91.6  | 91.6  | 95.4  | 108.7 | 133.5 | 165.9 | 188.8  |
| 57.2  | 20°   | 72.5  | 82.0  | 87.7  | 82.0  | 82.0  | 85.8  | 99.2  | 125.9 | 167.8 | 202.2  |
| 42.0  | 22.5° | 57.2  | 66.8  | 74.4  | 72.5  | 72.5  | 74.4  | 91.6  | 120.2 | 169.8 | 225.1  |
| 24.8  | 25°   | 42.0  | 51.5  | 57.2  | 61.0  | 61.0  | 66.8  | 83.9  | 116.3 | 177.4 | 272.7  |
| 11.4  | 27.5° | 24.8  | 36.2  | 43.9  | 47.7  | 49.6  | 57.2  | 78.2  | 112.5 | 190.7 | 341.4  |
| 0.0   | 30°   | 11.4  | 21.0  | 30.5  | 38.1  | 38.1  | 51.5  | 72.5  | 108.7 | 207.9 | 440.6  |
| 0.0   | 32.5° | 0.0   | 9.5   | 15.3  | 26.7  | 28.6  | 42.0  | 66.8  | 104.9 | 232.7 | 536.0  |
| 0.0   | 35°   | 0.0   | 0.0   | 7.6   | 21.0  | 21.0  | 34.3  | 61.0  | 101.1 | 270.8 | 608.4  |
| 0.0   | 37.5° | 0.0   | 0.0   | 0.0   | 15.3  | 17.2  | 30.5  | 59.1  | 99.2  | 278.5 | 614.2  |
| 0.0   | 40°   | 0.0   | 0.0   | 0.0   | 11.4  | 13.4  | 28.6  | 59.1  | 101.1 | 251.8 | 600.8  |
| 0.0   | 42.5° | 0.0   | 0.0   | 0.0   | 7.6   | 9.5   | 28.6  | 59.1  | 104.9 | 227.0 | 616.1  |
| 0.0   | 45°   | 0.0   | 0.0   | 0.0   | 5.7   | 7.6   | 30.5  | 57.2  | 103.0 | 213.6 | 696.2  |
| 0.0   | 47.5° | 0.0   | 0.0   | 0.0   | 7.6   | 11.4  | 30.5  | 55.3  | 101.1 | 215.5 | 961.3  |
| 0.0   | 50°   | 0.0   | 0.0   | 0.0   | 9.5   | 13.4  | 30.5  | 57.2  | 97.3  | 236.5 | 1478.2 |
| 0.0   | 52.5° | 0.0   | 0.0   | 0.0   | 7.6   | 11.4  | 34.3  | 62.9  | 95.4  | 257.5 | 1922.6 |
| 0.0   | 55°   | 0.0   | 0.0   | 0.0   | 1.9   | 5.7   | 43.9  | 68.7  | 95.4  | 289.9 | 2033.2 |
| 0.0   | 57.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 49.6  | 78.2  | 101.1 | 343.3 | 1989.4 |
| 0.0   | 58°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 49.6  | 80.1  | 101.1 | 347.1 | 1951.2 |
| 0.0   | 60°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 49.6  | 87.7  | 112.5 | 373.8 | 1737.6 |
| 0.0   | 62.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 42.0  | 104.9 | 141.1 | 389.1 | 1365.7 |
| 0.0   | 65°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 34.3  | 124.0 | 154.5 | 400.5 | 1087.2 |
| 0.0   | 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 32.4  | 127.8 | 156.4 | 406.3 | 865.9  |
| 0.0   | 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 34.3  | 125.9 | 167.8 | 425.3 | 703.8  |
| 0.0   | 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 38.1  | 114.4 | 185.0 | 425.3 | 623.7  |
| 0.0   | 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 40.1  | 106.8 | 207.9 | 387.2 | 539.8  |
| 0.0   | 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 38.1  | 104.9 | 242.2 | 345.2 | 444.4  |
| 0.0   | 80°   | 3.8   | 5.7   | 5.7   | 3.8   | 3.8   | 32.4  | 103.0 | 246.0 | 293.7 | 305.2  |
| 1.9   | 82.5° | 11.4  | 15.3  | 13.4  | 9.5   | 9.5   | 28.6  | 91.6  | 206.0 | 152.6 | 131.6  |
| 11.4  | 85°   | 21.0  | 24.8  | 24.8  | 21.0  | 21.0  | 26.7  | 57.2  | 74.4  | 51.5  | 42.0   |
| 21.0  | 87.5° | 28.6  | 32.4  | 32.4  | 28.6  | 28.6  | 26.7  | 24.8  | 22.9  | 21.0  | 21.0   |
| 0.0   | 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |

(END OF RI



Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-8

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-827-U-5WQ

Data in this report applies to families of products including GSS-SB1A-827-U-5WQ

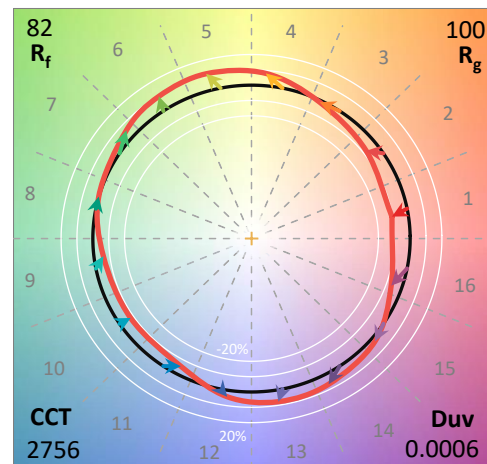
### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2407-184-8  
 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-827-U-5WQ**  
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI  
 2700K CCT 26 LEDS

### Spectral Parameters

CCT (K): 2756  
 CIE  $u'$ : 0.2599  
 CIE  $v'$ : 0.5271  
 Duv: 0.0006  
 CIE x: 0.4563  
 CIE y: 0.4112  
 CIE z: 0.1325  
 Peak Wavelength (nm): 609  
 Dominant Wavelength (nm): 583  
 Purity: 60.41121  
 R<sub>f</sub>: 82.2  
 R<sub>g</sub>: 99.9

CRI (Ra): 82.9  
 R1: 81.6  
 R2: 88.8  
 R3: 96.0  
 R4: 83.4  
 R5: 81.4  
 R6: 87.0  
 R7: 84.0  
 R8: 60.8  
 R9: 10.8  
 R10: 74.8  
 R11: 84.3  
 R12: 72.1  
 R13: 82.9  
 R14: 97.3  
 R15: 73.7



### Test Conditions

Stabilization Time: 29M  
 Operation Time: 1H 29M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-8

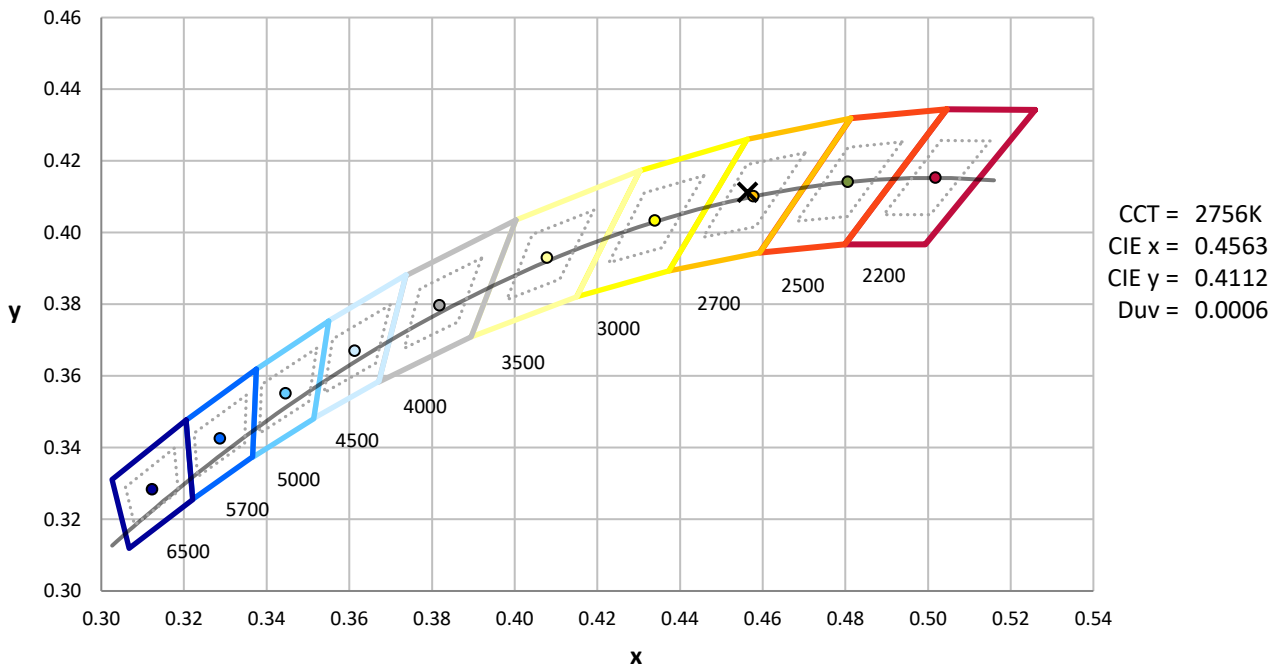
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| 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: SP1-2407-184-8

**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: SP1-2407-184-8

### 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               | 158                                    | NR                             | 620               | 959                                    | NR                             | 750               | 35                                     | NR                             | 880               | 1                                      | NR                             |
| 365               | 0                                      | NR                             | 495               | 211                                    | NR                             | 625               | 918                                    | NR                             | 755               | 30                                     | NR                             | 885               | 1                                      | NR                             |
| 370               | 0                                      | NR                             | 500               | 264                                    | NR                             | 630               | 873                                    | NR                             | 760               | 26                                     | NR                             | 890               | 1                                      | NR                             |
| 375               | 0                                      | NR                             | 505               | 318                                    | NR                             | 635               | 816                                    | NR                             | 765               | 22                                     | NR                             | 895               | 1                                      | NR                             |
| 380               | 0                                      | NR                             | 510               | 363                                    | NR                             | 640               | 755                                    | NR                             | 770               | 19                                     | NR                             | 900               | 1                                      | NR                             |
| 385               | 0                                      | NR                             | 515               | 403                                    | NR                             | 645               | 689                                    | NR                             | 775               | 16                                     | NR                             | 905               | 1                                      | NR                             |
| 390               | 0                                      | NR                             | 520               | 435                                    | NR                             | 650               | 626                                    | NR                             | 780               | 14                                     | NR                             | 910               | 0                                      | NR                             |
| 395               | 1                                      | NR                             | 525               | 459                                    | NR                             | 655               | 564                                    | NR                             | 785               | 12                                     | NR                             | 915               | 0                                      | NR                             |
| 400               | 3                                      | NR                             | 530               | 481                                    | NR                             | 660               | 503                                    | NR                             | 790               | 10                                     | NR                             | 920               | 0                                      | NR                             |
| 405               | 6                                      | NR                             | 535               | 501                                    | NR                             | 665               | 447                                    | NR                             | 795               | 9                                      | NR                             | 925               | 0                                      | NR                             |
| 410               | 13                                     | NR                             | 540               | 519                                    | NR                             | 670               | 392                                    | NR                             | 800               | 8                                      | NR                             | 930               | 0                                      | NR                             |
| 415               | 26                                     | NR                             | 545               | 542                                    | NR                             | 675               | 343                                    | NR                             | 805               | 7                                      | NR                             | 935               | 0                                      | NR                             |
| 420               | 51                                     | NR                             | 550               | 565                                    | NR                             | 680               | 299                                    | NR                             | 810               | 6                                      | NR                             | 940               | 0                                      | NR                             |
| 425               | 93                                     | NR                             | 555               | 593                                    | NR                             | 685               | 260                                    | NR                             | 815               | 5                                      | NR                             | 945               | 0                                      | NR                             |
| 430               | 156                                    | NR                             | 560               | 624                                    | NR                             | 690               | 225                                    | NR                             | 820               | 4                                      | NR                             | 950               | 0                                      | NR                             |
| 435               | 250                                    | NR                             | 565               | 662                                    | NR                             | 695               | 194                                    | NR                             | 825               | 4                                      | NR                             | 955               | 0                                      | NR                             |
| 440               | 391                                    | NR                             | 570               | 707                                    | NR                             | 700               | 166                                    | NR                             | 830               | 3                                      | NR                             | 960               | 0                                      | NR                             |
| 445               | 460                                    | NR                             | 575               | 756                                    | NR                             | 705               | 143                                    | NR                             | 835               | 3                                      | NR                             | 965               | 0                                      | NR                             |
| 450               | 293                                    | NR                             | 580               | 810                                    | NR                             | 710               | 122                                    | NR                             | 840               | 2                                      | NR                             | 970               | 0                                      | NR                             |
| 455               | 188                                    | NR                             | 585               | 860                                    | NR                             | 715               | 105                                    | NR                             | 845               | 2                                      | NR                             | 975               | 0                                      | NR                             |
| 460               | 149                                    | NR                             | 590               | 910                                    | NR                             | 720               | 90                                     | NR                             | 850               | 2                                      | NR                             | 980               | 0                                      | NR                             |
| 465               | 103                                    | NR                             | 595               | 950                                    | NR                             | 725               | 77                                     | NR                             | 855               | 2                                      | NR                             | 985               | 0                                      | NR                             |
| 470               | 80                                     | NR                             | 600               | 980                                    | NR                             | 730               | 66                                     | NR                             | 860               | 1                                      | NR                             | 990               | 0                                      | NR                             |
| 475               | 82                                     | NR                             | 605               | 995                                    | NR                             | 735               | 56                                     | NR                             | 865               | 1                                      | NR                             | 995               | 0                                      | NR                             |
| 480               | 92                                     | NR                             | 610               | 998                                    | NR                             | 740               | 48                                     | NR                             | 870               | 1                                      | NR                             | 1000              | 0                                      | NR                             |
| 485               | 116                                    | NR                             | 615               | 985                                    | NR                             | 745               | 41                                     | NR                             | 875               | 1                                      | NR                             |                   |                                        |                                |

REPORT NUMBER: SP1-2407-184-8

### Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.2

| 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       | 158                         | NR               | 620       | 959                         | NR               | 750       | 35                          | NR               | 880       | 1                           | NR               |
| 365       | 0                           | NR               | 495       | 211                         | NR               | 625       | 918                         | NR               | 755       | 30                          | NR               | 885       | 1                           | NR               |
| 370       | 0                           | NR               | 500       | 264                         | NR               | 630       | 873                         | NR               | 760       | 26                          | NR               | 890       | 1                           | NR               |
| 375       | 0                           | NR               | 505       | 318                         | NR               | 635       | 816                         | NR               | 765       | 22                          | NR               | 895       | 1                           | NR               |
| 380       | 0                           | NR               | 510       | 363                         | NR               | 640       | 755                         | NR               | 770       | 19                          | NR               | 900       | 1                           | NR               |
| 385       | 0                           | NR               | 515       | 403                         | NR               | 645       | 689                         | NR               | 775       | 16                          | NR               | 905       | 1                           | NR               |
| 390       | 0                           | NR               | 520       | 435                         | NR               | 650       | 626                         | NR               | 780       | 14                          | NR               | 910       | 0                           | NR               |
| 395       | 1                           | NR               | 525       | 459                         | NR               | 655       | 564                         | NR               | 785       | 12                          | NR               | 915       | 0                           | NR               |
| 400       | 3                           | NR               | 530       | 481                         | NR               | 660       | 503                         | NR               | 790       | 10                          | NR               | 920       | 0                           | NR               |
| 405       | 6                           | NR               | 535       | 501                         | NR               | 665       | 447                         | NR               | 795       | 9                           | NR               | 925       | 0                           | NR               |
| 410       | 13                          | NR               | 540       | 519                         | NR               | 670       | 392                         | NR               | 800       | 8                           | NR               | 930       | 0                           | NR               |
| 415       | 26                          | NR               | 545       | 542                         | NR               | 675       | 343                         | NR               | 805       | 7                           | NR               | 935       | 0                           | NR               |
| 420       | 51                          | NR               | 550       | 565                         | NR               | 680       | 299                         | NR               | 810       | 6                           | NR               | 940       | 0                           | NR               |
| 425       | 93                          | NR               | 555       | 593                         | NR               | 685       | 260                         | NR               | 815       | 5                           | NR               | 945       | 0                           | NR               |
| 430       | 156                         | NR               | 560       | 624                         | NR               | 690       | 225                         | NR               | 820       | 4                           | NR               | 950       | 0                           | NR               |
| 435       | 250                         | NR               | 565       | 662                         | NR               | 695       | 194                         | NR               | 825       | 4                           | NR               | 955       | 0                           | NR               |
| 440       | 391                         | NR               | 570       | 707                         | NR               | 700       | 166                         | NR               | 830       | 3                           | NR               | 960       | 0                           | NR               |
| 445       | 460                         | NR               | 575       | 756                         | NR               | 705       | 143                         | NR               | 835       | 3                           | NR               | 965       | 0                           | NR               |
| 450       | 293                         | NR               | 580       | 810                         | NR               | 710       | 122                         | NR               | 840       | 2                           | NR               | 970       | 0                           | NR               |
| 455       | 188                         | NR               | 585       | 860                         | NR               | 715       | 105                         | NR               | 845       | 2                           | NR               | 975       | 0                           | NR               |
| 460       | 149                         | NR               | 590       | 910                         | NR               | 720       | 90                          | NR               | 850       | 2                           | NR               | 980       | 0                           | NR               |
| 465       | 103                         | NR               | 595       | 950                         | NR               | 725       | 77                          | NR               | 855       | 2                           | NR               | 985       | 0                           | NR               |
| 470       | 80                          | NR               | 600       | 980                         | NR               | 730       | 66                          | NR               | 860       | 1                           | NR               | 990       | 0                           | NR               |
| 475       | 82                          | NR               | 605       | 995                         | NR               | 735       | 56                          | NR               | 865       | 1                           | NR               | 995       | 0                           | NR               |
| 480       | 92                          | NR               | 610       | 998                         | NR               | 740       | 48                          | NR               | 870       | 1                           | NR               | 1000      | 0                           | NR               |
| 485       | 116                         | NR               | 615       | 985                         | NR               | 745       | 41                          | NR               | 875       | 1                           | NR               |           |                             |                  |

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### Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.16

| $\lambda$<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               | 158                                    | NR                             | 620               | 959                                    | NR                             | 750               | 35                                     | NR                             | 880               | 1                                      | NR                             |
| 365               | 0                                      | NR                             | 495               | 211                                    | NR                             | 625               | 918                                    | NR                             | 755               | 30                                     | NR                             | 885               | 1                                      | NR                             |
| 370               | 0                                      | NR                             | 500               | 264                                    | NR                             | 630               | 873                                    | NR                             | 760               | 26                                     | NR                             | 890               | 1                                      | NR                             |
| 375               | 0                                      | NR                             | 505               | 318                                    | NR                             | 635               | 816                                    | NR                             | 765               | 22                                     | NR                             | 895               | 1                                      | NR                             |
| 380               | 0                                      | NR                             | 510               | 363                                    | NR                             | 640               | 755                                    | NR                             | 770               | 19                                     | NR                             | 900               | 1                                      | NR                             |
| 385               | 0                                      | NR                             | 515               | 403                                    | NR                             | 645               | 689                                    | NR                             | 775               | 16                                     | NR                             | 905               | 1                                      | NR                             |
| 390               | 0                                      | NR                             | 520               | 435                                    | NR                             | 650               | 626                                    | NR                             | 780               | 14                                     | NR                             | 910               | 0                                      | NR                             |
| 395               | 1                                      | NR                             | 525               | 459                                    | NR                             | 655               | 564                                    | NR                             | 785               | 12                                     | NR                             | 915               | 0                                      | NR                             |
| 400               | 3                                      | NR                             | 530               | 481                                    | NR                             | 660               | 503                                    | NR                             | 790               | 10                                     | NR                             | 920               | 0                                      | NR                             |
| 405               | 6                                      | NR                             | 535               | 501                                    | NR                             | 665               | 447                                    | NR                             | 795               | 9                                      | NR                             | 925               | 0                                      | NR                             |
| 410               | 13                                     | NR                             | 540               | 519                                    | NR                             | 670               | 392                                    | NR                             | 800               | 8                                      | NR                             | 930               | 0                                      | NR                             |
| 415               | 26                                     | NR                             | 545               | 542                                    | NR                             | 675               | 343                                    | NR                             | 805               | 7                                      | NR                             | 935               | 0                                      | NR                             |
| 420               | 51                                     | NR                             | 550               | 565                                    | NR                             | 680               | 299                                    | NR                             | 810               | 6                                      | NR                             | 940               | 0                                      | NR                             |
| 425               | 93                                     | NR                             | 555               | 593                                    | NR                             | 685               | 260                                    | NR                             | 815               | 5                                      | NR                             | 945               | 0                                      | NR                             |
| 430               | 156                                    | NR                             | 560               | 624                                    | NR                             | 690               | 225                                    | NR                             | 820               | 4                                      | NR                             | 950               | 0                                      | NR                             |
| 435               | 250                                    | NR                             | 565               | 662                                    | NR                             | 695               | 194                                    | NR                             | 825               | 4                                      | NR                             | 955               | 0                                      | NR                             |
| 440               | 391                                    | NR                             | 570               | 707                                    | NR                             | 700               | 166                                    | NR                             | 830               | 3                                      | NR                             | 960               | 0                                      | NR                             |
| 445               | 460                                    | NR                             | 575               | 756                                    | NR                             | 705               | 143                                    | NR                             | 835               | 3                                      | NR                             | 965               | 0                                      | NR                             |
| 450               | 293                                    | NR                             | 580               | 810                                    | NR                             | 710               | 122                                    | NR                             | 840               | 2                                      | NR                             | 970               | 0                                      | NR                             |
| 455               | 188                                    | NR                             | 585               | 860                                    | NR                             | 715               | 105                                    | NR                             | 845               | 2                                      | NR                             | 975               | 0                                      | NR                             |
| 460               | 149                                    | NR                             | 590               | 910                                    | NR                             | 720               | 90                                     | NR                             | 850               | 2                                      | NR                             | 980               | 0                                      | NR                             |
| 465               | 103                                    | NR                             | 595               | 950                                    | NR                             | 725               | 77                                     | NR                             | 855               | 2                                      | NR                             | 985               | 0                                      | NR                             |
| 470               | 80                                     | NR                             | 600               | 980                                    | NR                             | 730               | 66                                     | NR                             | 860               | 1                                      | NR                             | 990               | 0                                      | NR                             |
| 475               | 82                                     | NR                             | 605               | 995                                    | NR                             | 735               | 56                                     | NR                             | 865               | 1                                      | NR                             | 995               | 0                                      | NR                             |
| 480               | 92                                     | NR                             | 610               | 998                                    | NR                             | 740               | 48                                     | NR                             | 870               | 1                                      | NR                             | 1000              | 0                                      | NR                             |
| 485               | 116                                    | NR                             | 615               | 985                                    | NR                             | 745               | 41                                     | NR                             | 875               | 1                                      | NR                             |                   |                                        |                                |

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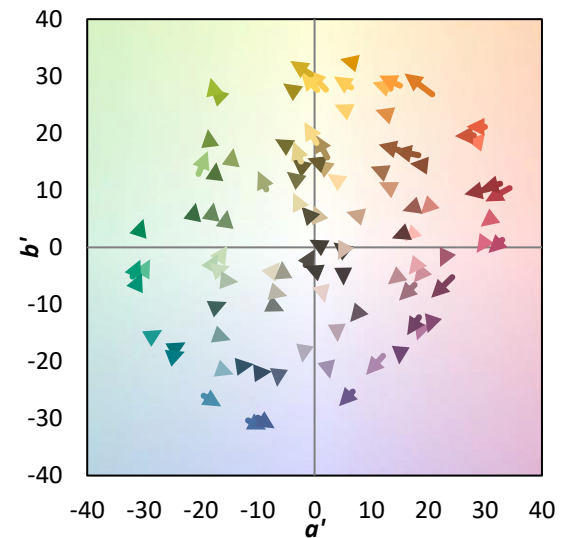
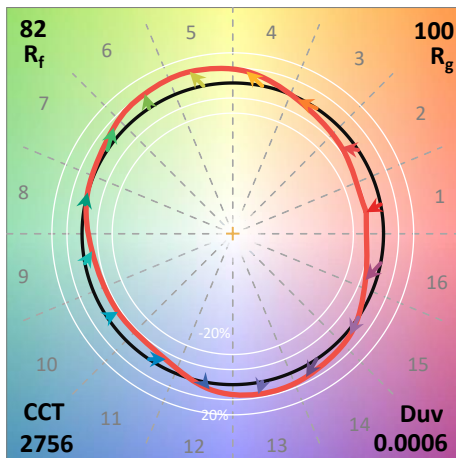
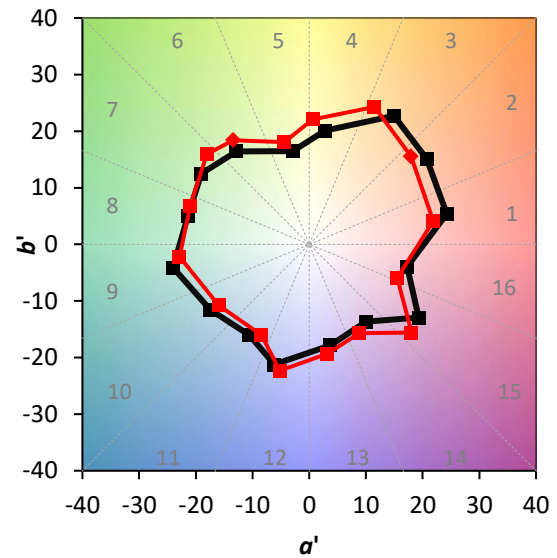
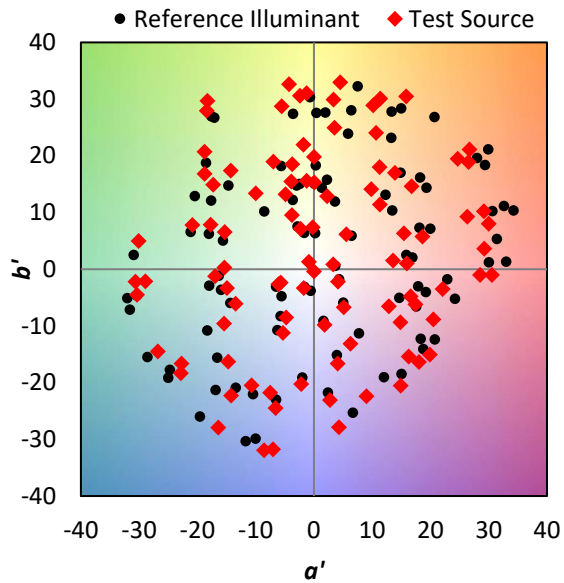
TM-30-18

### Summary

$R_f = 82.2$   
 $R_g = 99.9$   
 $CIE R_a = 82.9$   
 $R_9 = 10.8$

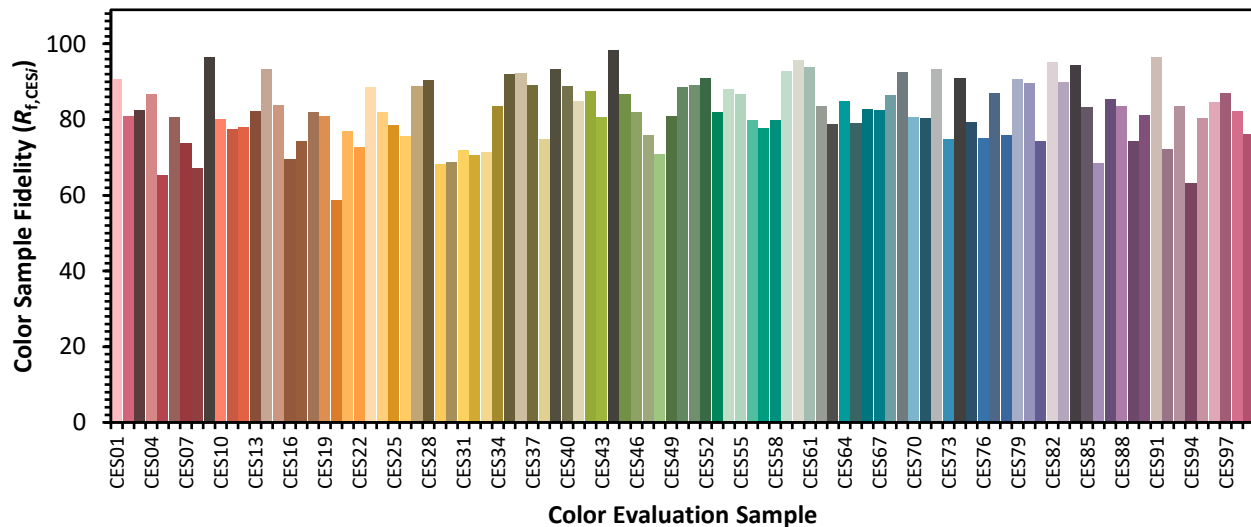


### Color Vector Graphics

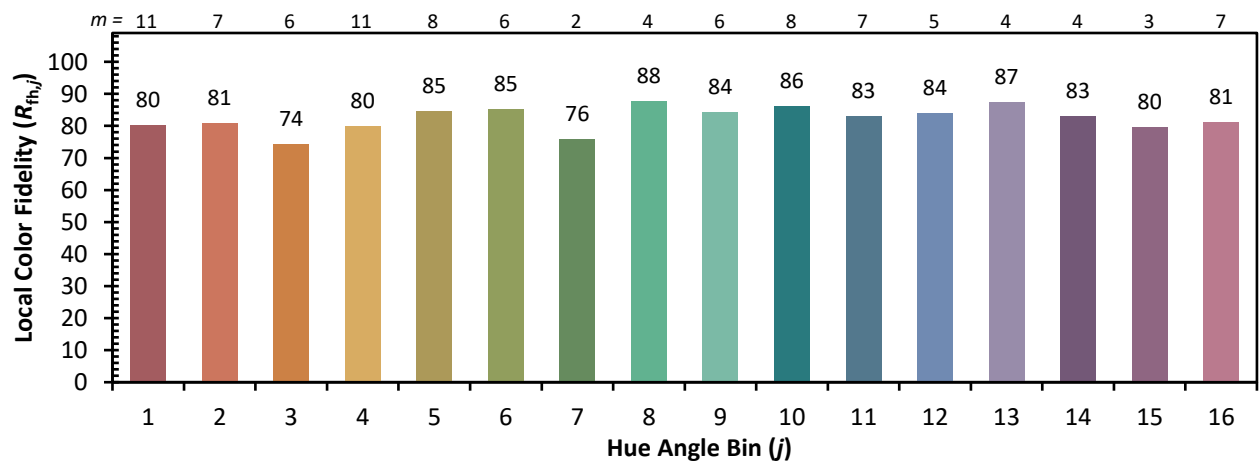
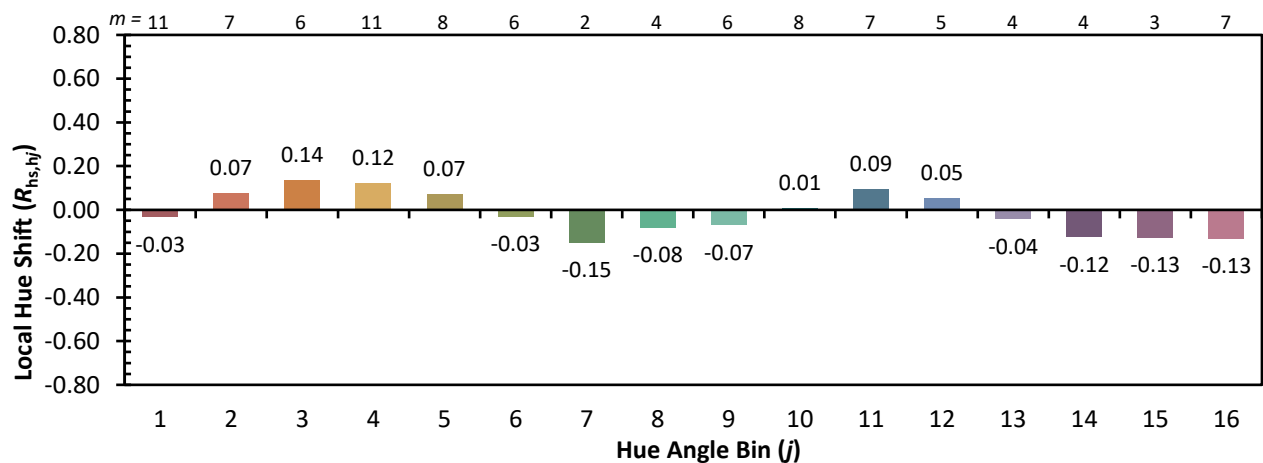


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 76 | CES51 = 89 | CES76 = 75 |
| CES02 = 63 | CES27 = 89 | CES52 = 91 | CES77 = 87 |
| CES03 = 31 | CES28 = 90 | CES53 = 82 | CES78 = 76 |
| CES04 = 71 | CES29 = 68 | CES54 = 88 | CES79 = 91 |
| CES05 = 50 | CES30 = 69 | CES55 = 87 | CES80 = 90 |
| CES06 = 52 | CES31 = 72 | CES56 = 80 | CES81 = 74 |
| CES07 = 43 | CES32 = 71 | CES57 = 78 | CES82 = 95 |
| CES08 = 42 | CES33 = 71 | CES58 = 80 | CES83 = 90 |
| CES09 = 29 | CES34 = 84 | CES59 = 93 | CES84 = 94 |
| CES10 = 77 | CES35 = 92 | CES60 = 96 | CES85 = 83 |
| CES11 = 59 | CES36 = 92 | CES61 = 94 | CES86 = 69 |
| CES12 = 66 | CES37 = 89 | CES62 = 84 | CES87 = 85 |
| CES13 = 44 | CES38 = 75 | CES63 = 79 | CES88 = 84 |
| CES14 = 74 | CES39 = 93 | CES64 = 85 | CES89 = 74 |
| CES15 = 72 | CES40 = 89 | CES65 = 79 | CES90 = 81 |
| CES16 = 48 | CES41 = 85 | CES66 = 83 | CES91 = 96 |
| CES17 = 50 | CES42 = 88 | CES67 = 82 | CES92 = 72 |
| CES18 = 57 | CES43 = 81 | CES68 = 86 | CES93 = 84 |
| CES19 = 73 | CES44 = 98 | CES69 = 92 | CES94 = 63 |
| CES20 = 67 | CES45 = 87 | CES70 = 81 | CES95 = 80 |
| CES21 = 87 | CES46 = 82 | CES71 = 81 | CES96 = 85 |
| CES22 = 79 | CES47 = 76 | CES72 = 93 | CES97 = 87 |
| CES23 = 92 | CES48 = 71 | CES73 = 75 | CES98 = 82 |
| CES24 = 91 | CES49 = 81 | CES74 = 91 | CES99 = 76 |
| CES25 = 72 | CES50 = 88 | CES75 = 79 |            |



### Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)