

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: P1065378

Luminaire Tested: **GLAN-SA8B-827-U-LBC**

Issue Date: 08/07/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1065378  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 08/07/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8B-827-U-LBC  
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 8xLight Square PACKAGE  
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (112) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28033.6 lumens  
Efficiency: N/A  
Efficacy: 99.1 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

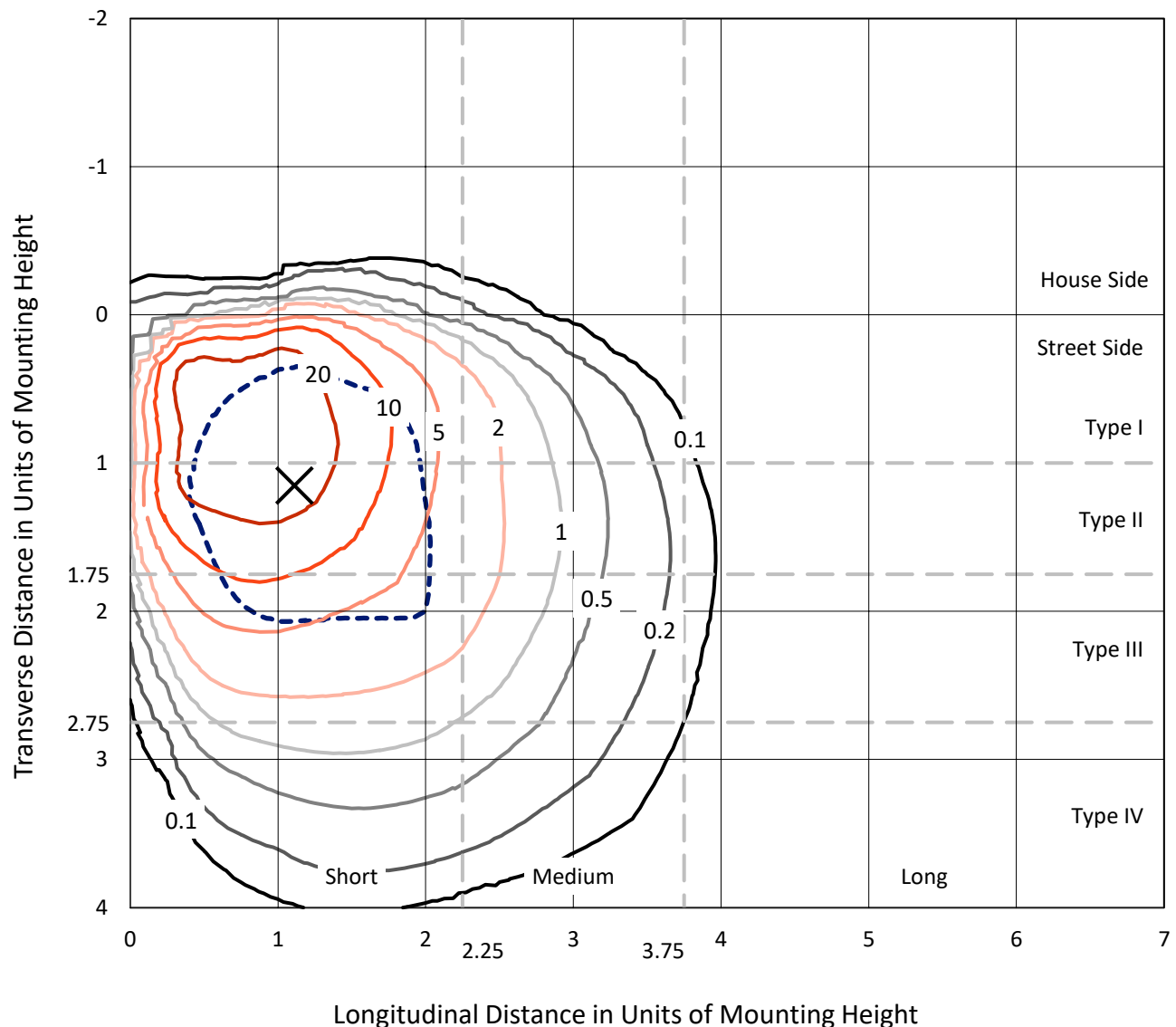
Input Watts (W): 282.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.97  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

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## Iso-Footcandle Lines of Horizontal Illumination

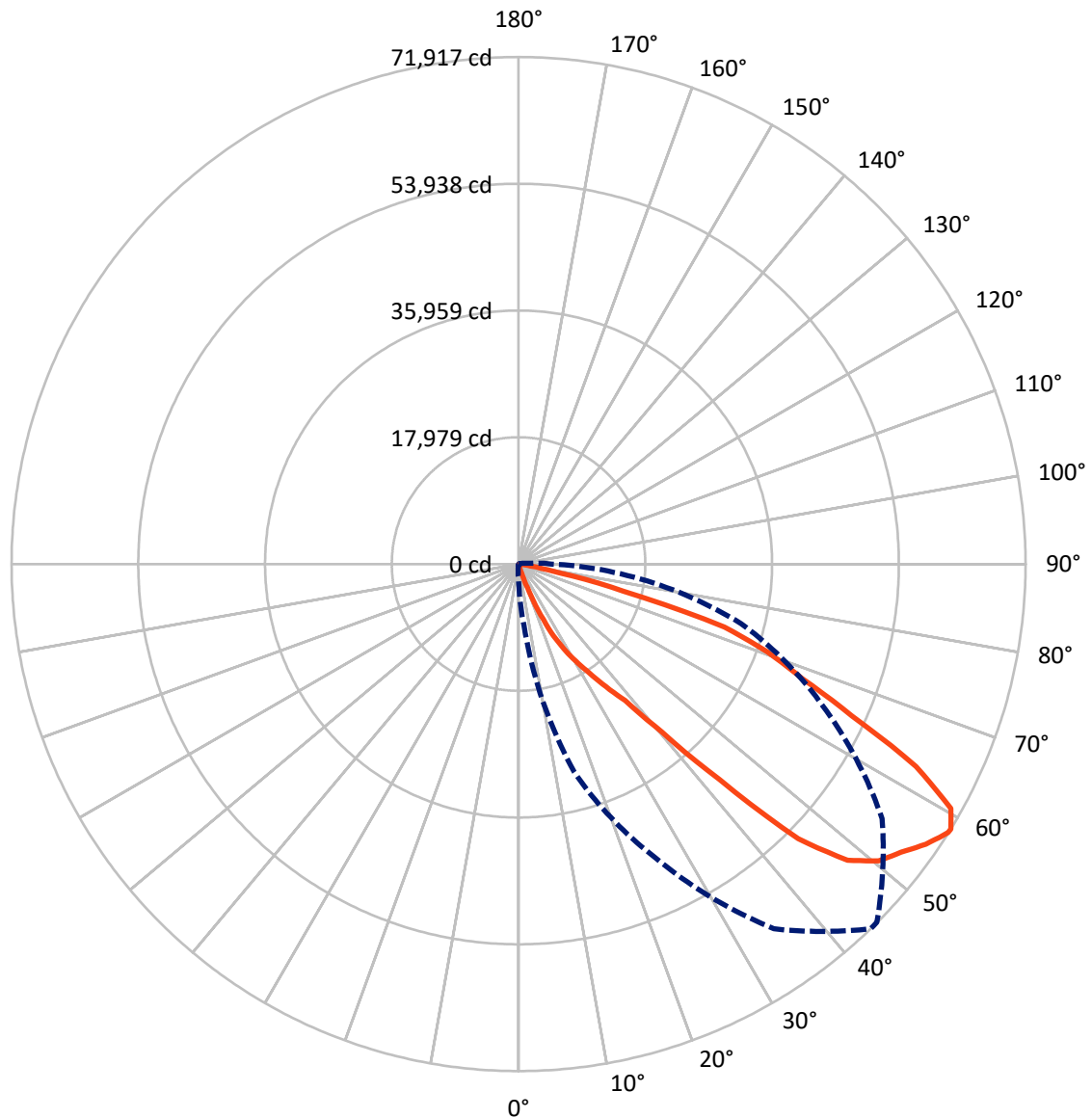
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 48.8 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral      - - - Horizontal Cone Through 58-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 191.4    | 0.0    | 191.4   |
|                    | % Fixture | 0.7      | 0.0    | 0.7     |
| <b>Street Side</b> | Lumens    | 27842.2  | 0.0    | 27842.2 |
|                    | % Fixture | 99.3     | 0.0    | 99.3    |
| <b>Total</b>       | Lumens    | 28033.6  | 0.0    | 28033.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 11.0    | 0.0       |
| 10°-20°   | 61.5    | 0.2       |
| 20°-30°   | 664.1   | 2.4       |
| 30°-40°   | 1964.0  | 7.0       |
| 40°-50°   | 5853.9  | 20.9      |
| 50°-60°   | 9288.7  | 33.1      |
| 60°-70°   | 7747.8  | 27.6      |
| 70°-80°   | 2389.6  | 8.5       |
| 80°-90°   | 53.1    | 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°    | 28033.6 | 100.0     |
| 0°-180°   | 28033.6 | 100.0     |



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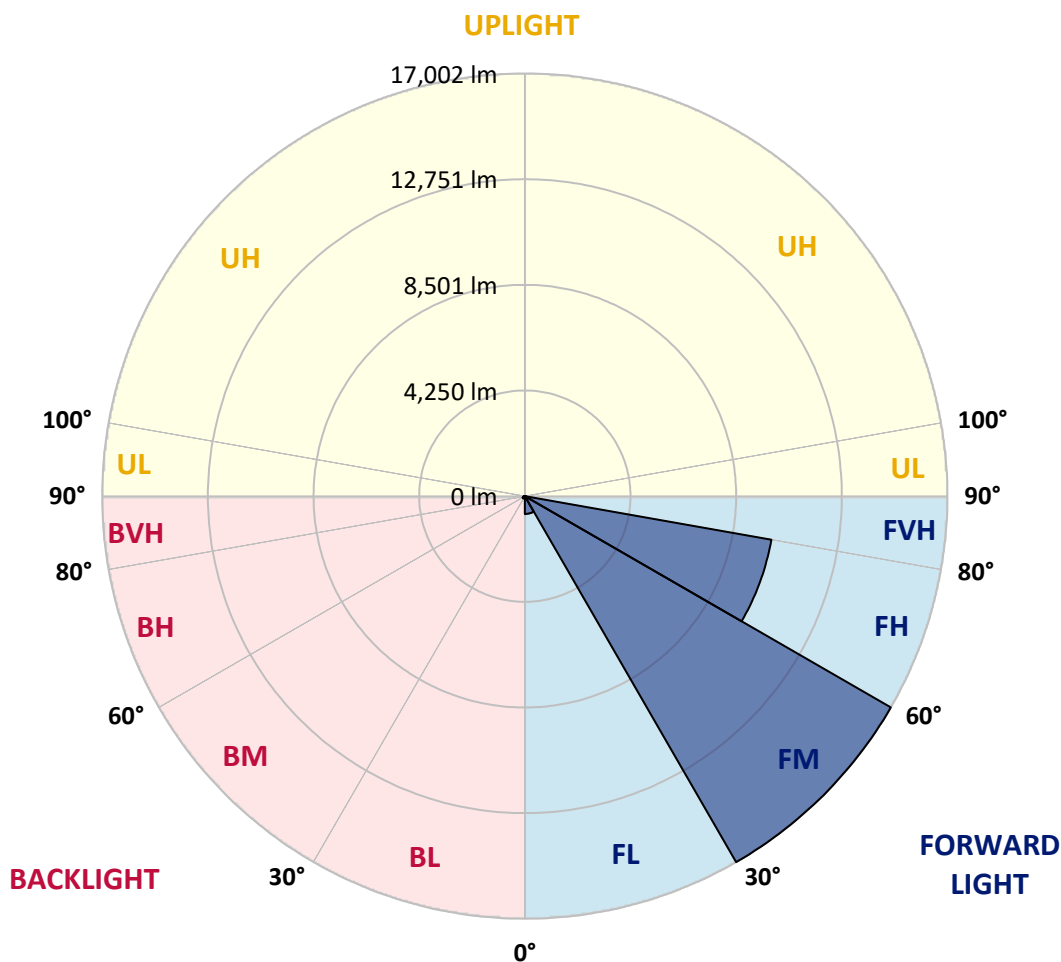
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 717.8   | 2.6       |                         |      |          |
| FM   | (30°-60°)   | 17001.8 | 60.6      |                         |      |          |
| FH   | (60°-80°)   | 10072.1 | 35.9      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 50.5    | 0.2       |                         |      | G1/100   |
| BL   | (0°-30°)    | 18.7    | 0.1       | B0/110                  |      |          |
| BM   | (30°-60°)   | 104.8   | 0.4       | B0/220                  |      |          |
| BH   | (60°-80°)   | 65.3    | 0.2       | B0/110                  |      | G0/110   |
| BVH  | (80°-90°)   | 2.6     | 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°    | 122.8  | 122.8   | 122.8   | 122.8   | 122.8   | 122.8   | 122.8   | 122.8   | 122.8   | 122.8   |
| 2.5°  | 158.8  | 158.8   | 152.5   | 144.0   | 135.5   | 127.1   | 124.9   | 120.7   | 118.6   | 116.5   |
| 5°    | 165.2  | 165.2   | 163.1   | 156.7   | 148.2   | 141.9   | 141.9   | 135.5   | 131.3   | 127.1   |
| 7.5°  | 169.4  | 171.5   | 175.8   | 173.7   | 169.4   | 163.1   | 163.1   | 158.8   | 152.5   | 141.9   |
| 10°   | 175.8  | 182.1   | 190.6   | 194.8   | 196.9   | 196.9   | 194.8   | 192.7   | 182.1   | 167.3   |
| 12.5° | 182.1  | 194.8   | 216.0   | 237.2   | 249.9   | 266.8   | 264.7   | 260.5   | 232.9   | 201.2   |
| 15°   | 194.8  | 213.9   | 258.4   | 319.8   | 415.1   | 474.4   | 497.7   | 476.5   | 385.4   | 271.1   |
| 17.5° | 209.7  | 241.4   | 374.8   | 669.2   | 1097.0  | 1300.3  | 1423.1  | 1323.6  | 876.7   | 514.6   |
| 20°   | 224.5  | 294.4   | 696.7   | 1734.4  | 2846.2  | 3511.1  | 3695.4  | 3407.4  | 2187.6  | 980.5   |
| 22.5° | 249.9  | 413.0   | 1412.5  | 3585.3  | 6132.9  | 7130.3  | 7318.8  | 6397.6  | 4131.6  | 1935.6  |
| 25°   | 302.8  | 599.3   | 2435.4  | 5842.7  | 9152.7  | 10836.3 | 10757.9 | 9550.8  | 6702.5  | 3091.8  |
| 27.5° | 379.1  | 872.5   | 3682.7  | 8301.4  | 12045.5 | 13530.0 | 13707.9 | 12214.9 | 8934.6  | 4546.7  |
| 30°   | 489.2  | 1209.2  | 5021.1  | 10270.8 | 14364.3 | 15969.6 | 15999.2 | 14455.4 | 10931.6 | 5823.7  |
| 32.5° | 595.1  | 1526.9  | 6192.1  | 12174.6 | 16649.3 | 18409.2 | 18540.4 | 16640.9 | 12422.4 | 7153.6  |
| 35°   | 675.5  | 1734.4  | 7378.1  | 13847.6 | 18953.4 | 21378.2 | 21369.7 | 19114.3 | 14188.6 | 8341.6  |
| 37.5° | 681.9  | 1941.9  | 8451.7  | 15558.7 | 21871.6 | 24586.5 | 24855.4 | 22369.2 | 16323.2 | 9811.3  |
| 40°   | 667.1  | 2174.9  | 9811.3  | 18227.0 | 27129.8 | 31295.3 | 31532.5 | 28398.3 | 20605.2 | 12327.1 |
| 42.5° | 684.0  | 2579.4  | 12017.9 | 23154.9 | 35861.1 | 41843.6 | 42301.0 | 39005.9 | 28476.7 | 17460.4 |
| 45°   | 773.0  | 3339.6  | 16640.9 | 31399.1 | 48306.8 | 55600.2 | 55447.7 | 50701.9 | 37635.7 | 25274.7 |
| 47.5° | 1067.3 | 5201.1  | 23493.7 | 39423.1 | 56260.9 | 62755.9 | 62887.2 | 57086.8 | 42980.8 | 31282.6 |
| 50°   | 1641.2 | 7958.3  | 29251.8 | 43664.8 | 59681.0 | 66197.1 | 66074.3 | 59371.8 | 45011.7 | 34241.1 |
| 52.5° | 2134.6 | 9953.2  | 32140.3 | 45153.6 | 60119.3 | 67897.6 | 67889.2 | 59973.2 | 45327.2 | 34495.2 |
| 55°   | 2257.5 | 10103.5 | 32163.6 | 45234.0 | 61101.9 | 70123.3 | 70402.9 | 61453.5 | 45735.9 | 33385.5 |
| 57.5° | 2208.8 | 8945.2  | 30821.0 | 45699.9 | 62851.2 | 71845.0 | 71859.9 | 62887.2 | 46773.6 | 32705.7 |
| 58°   | 2166.4 | 8763.0  | 30549.9 | 45964.6 | 63151.9 | 71917.0 | 71881.0 | 62952.8 | 47618.6 | 32680.3 |
| 60°   | 1929.2 | 7608.9  | 29493.2 | 46640.2 | 62705.0 | 70438.9 | 70102.2 | 61519.1 | 47493.6 | 32419.8 |
| 62.5° | 1516.3 | 5935.9  | 28453.4 | 45858.8 | 57914.8 | 63283.2 | 63422.9 | 54465.1 | 43296.3 | 30901.5 |
| 65°   | 1207.1 | 4423.9  | 26284.9 | 40225.7 | 47690.6 | 51968.3 | 52489.3 | 44289.5 | 36138.5 | 26166.3 |
| 67.5° | 961.4  | 3197.7  | 22049.5 | 32026.0 | 37737.4 | 43372.6 | 43751.6 | 37184.7 | 27998.1 | 20048.2 |
| 70°   | 781.4  | 2162.2  | 15219.9 | 23421.7 | 31125.9 | 37462.1 | 37485.4 | 30890.9 | 20897.4 | 13136.1 |
| 72.5° | 692.5  | 1497.2  | 8835.0  | 17081.4 | 25238.7 | 30526.6 | 29910.4 | 25067.2 | 16060.6 | 7780.4  |
| 75°   | 599.3  | 993.2   | 4332.8  | 10442.4 | 15302.5 | 15406.3 | 15641.3 | 11628.3 | 8028.2  | 3699.6  |
| 77.5° | 493.4  | 705.2   | 1706.9  | 2852.5  | 4589.1  | 5874.5  | 6092.6  | 4616.6  | 2670.4  | 910.6   |
| 80°   | 338.8  | 334.6   | 459.5   | 874.6   | 1313.0  | 1645.5  | 1535.3  | 1188.0  | 698.8   | 349.4   |
| 82.5° | 146.1  | 158.8   | 207.5   | 249.9   | 203.3   | 196.9   | 188.5   | 120.7   | 93.2    | 72.0    |
| 85°   | 46.6   | 42.4    | 44.5    | 44.5    | 36.0    | 27.5    | 27.5    | 12.7    | 0.0     | 0.0     |
| 87.5° | 23.3   | 19.1    | 19.1    | 16.9    | 10.6    | 4.2     | 2.1     | 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°  |
|---------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 122.8   | 0°    | 122.8  | 122.8  | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 |
| 114.4   | 2.5°  | 112.2  | 112.2  | 108.0 | 103.8 | 101.6 | 97.4  | 95.3  | 93.2  | 91.1  | 88.9  |
| 122.8   | 5°    | 118.6  | 116.5  | 110.1 | 103.8 | 97.4  | 91.1  | 86.8  | 82.6  | 78.4  | 76.2  |
| 135.5   | 7.5°  | 129.2  | 124.9  | 112.2 | 101.6 | 93.2  | 84.7  | 80.5  | 74.1  | 69.9  | 63.5  |
| 150.4   | 10°   | 141.9  | 133.4  | 116.5 | 103.8 | 91.1  | 80.5  | 74.1  | 67.8  | 61.4  | 52.9  |
| 171.5   | 12.5° | 158.8  | 144.0  | 122.8 | 101.6 | 86.8  | 74.1  | 67.8  | 59.3  | 52.9  | 46.6  |
| 199.1   | 15°   | 173.7  | 154.6  | 124.9 | 101.6 | 82.6  | 67.8  | 59.3  | 50.8  | 44.5  | 36.0  |
| 249.9   | 17.5° | 194.8  | 163.1  | 122.8 | 95.3  | 76.2  | 59.3  | 50.8  | 44.5  | 33.9  | 21.2  |
| 370.6   | 20°   | 230.8  | 169.4  | 118.6 | 88.9  | 65.6  | 48.7  | 38.1  | 29.6  | 14.8  | 4.2   |
| 557.0   | 22.5° | 288.0  | 186.4  | 114.4 | 80.5  | 57.2  | 38.1  | 25.4  | 10.6  | 0.0   | 0.0   |
| 847.1   | 25°   | 398.1  | 216.0  | 114.4 | 76.2  | 50.8  | 27.5  | 8.5   | 0.0   | 0.0   | 0.0   |
| 1202.9  | 27.5° | 529.4  | 256.2  | 114.4 | 65.6  | 40.2  | 14.8  | 0.0   | 0.0   | 0.0   | 0.0   |
| 1639.1  | 30°   | 662.8  | 300.7  | 114.4 | 57.2  | 31.8  | 2.1   | 0.0   | 0.0   | 0.0   | 0.0   |
| 2018.2  | 32.5° | 789.9  | 338.8  | 116.5 | 48.7  | 21.2  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 2543.4  | 35°   | 919.1  | 345.2  | 114.4 | 42.4  | 12.7  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 3187.1  | 37.5° | 1084.3 | 332.5  | 108.0 | 38.1  | 6.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 4193.0  | 40°   | 1334.1 | 338.8  | 101.6 | 36.0  | 2.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 5986.7  | 42.5° | 1795.8 | 366.4  | 93.2  | 36.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 9536.0  | 45°   | 3104.5 | 491.3  | 84.7  | 38.1  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 14315.6 | 47.5° | 5135.4 | 883.1  | 82.6  | 38.1  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 17244.4 | 50°   | 6554.3 | 1111.8 | 86.8  | 40.2  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 17610.8 | 52.5° | 6543.7 | 1238.9 | 91.1  | 42.4  | 8.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 16232.2 | 55°   | 5817.3 | 1262.1 | 97.4  | 46.6  | 27.5  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 13949.3 | 57.5° | 4862.2 | 1152.0 | 112.2 | 57.2  | 50.8  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 13591.4 | 58°   | 4692.8 | 1101.2 | 116.5 | 59.3  | 55.1  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 11789.2 | 60°   | 3845.7 | 897.9  | 148.2 | 74.1  | 74.1  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 9665.2  | 62.5° | 2655.6 | 783.5  | 169.4 | 95.3  | 76.2  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 7126.1  | 65°   | 1878.4 | 707.3  | 184.2 | 101.6 | 61.4  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 5063.4  | 67.5° | 1404.0 | 652.3  | 203.3 | 103.8 | 31.8  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 3176.5  | 70°   | 1075.8 | 612.0  | 249.9 | 110.1 | 8.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 1893.2  | 72.5° | 876.7  | 565.4  | 302.8 | 114.4 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 1135.1  | 75°   | 726.4  | 510.4  | 292.2 | 124.9 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 605.7   | 77.5° | 482.8  | 396.0  | 266.8 | 124.9 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 216.0   | 80°   | 169.4  | 156.7  | 207.5 | 110.1 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 44.5    | 82.5° | 25.4   | 21.2   | 29.6  | 38.1  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0     | 85°   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0     | 87.5° | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0     | 90°   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

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**CANDELA DISTRIBUTION (continued):**

| 180°  |       | 185°  | 195°  | 205°  | 215°  | 225°  | 235°  | 245°  | 255°  | 265°  | 270°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 122.8 | 0°    | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 |
| 86.8  | 2.5°  | 86.8  | 86.8  | 84.7  | 86.8  | 86.8  | 91.1  | 101.6 | 116.5 | 133.4 | 139.8 |
| 74.1  | 5°    | 72.0  | 69.9  | 67.8  | 67.8  | 67.8  | 74.1  | 82.6  | 99.5  | 118.6 | 127.1 |
| 61.4  | 7.5°  | 59.3  | 57.2  | 55.1  | 52.9  | 52.9  | 57.2  | 67.8  | 86.8  | 105.9 | 114.4 |
| 50.8  | 10°   | 48.7  | 44.5  | 42.4  | 40.2  | 40.2  | 44.5  | 55.1  | 74.1  | 95.3  | 103.8 |
| 42.4  | 12.5° | 40.2  | 33.9  | 29.6  | 27.5  | 25.4  | 31.8  | 42.4  | 59.3  | 82.6  | 93.2  |
| 31.8  | 15°   | 27.5  | 21.2  | 14.8  | 12.7  | 10.6  | 16.9  | 27.5  | 46.6  | 69.9  | 82.6  |
| 16.9  | 17.5° | 14.8  | 6.4   | 2.1   | 0.0   | 0.0   | 4.2   | 12.7  | 33.9  | 57.2  | 67.8  |
| 0.0   | 20°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 16.9  | 42.4  | 52.9  |
| 0.0   | 22.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 2.1   | 25.4  | 36.0  |
| 0.0   | 25°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 10.6  | 19.1  |
| 0.0   | 27.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 4.2   |
| 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   | 6.4   |
| 0.0   | 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 8.5   | 16.9  |
| 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: P1065378

CATALOG NUMBER: GLAN-SA8B-827-U-LBC

**CANDELA DISTRIBUTION (continued):**

| 275°  |       | 285°  | 295°  | 305°  | 315°  | 316°  | 325°  | 335°  | 345°  | 355°  | 360°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 122.8 | 0°    | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 | 122.8  |
| 146.1 | 2.5°  | 150.4 | 148.2 | 144.0 | 139.8 | 139.8 | 139.8 | 146.1 | 152.5 | 158.8 | 158.8  |
| 131.3 | 5°    | 139.8 | 139.8 | 137.7 | 133.4 | 133.4 | 135.5 | 144.0 | 154.6 | 163.1 | 165.2  |
| 120.7 | 7.5°  | 129.2 | 133.4 | 129.2 | 127.1 | 129.2 | 131.3 | 139.8 | 152.5 | 165.2 | 169.4  |
| 112.2 | 10°   | 122.8 | 124.9 | 124.9 | 122.8 | 122.8 | 127.1 | 135.5 | 152.5 | 169.4 | 175.8  |
| 101.6 | 12.5° | 114.4 | 118.6 | 116.5 | 116.5 | 116.5 | 120.7 | 131.3 | 150.4 | 173.7 | 182.1  |
| 91.1  | 15°   | 105.9 | 112.2 | 112.2 | 110.1 | 110.1 | 112.2 | 127.1 | 148.2 | 180.0 | 194.8  |
| 78.4  | 17.5° | 97.4  | 103.8 | 105.9 | 101.6 | 101.6 | 105.9 | 120.7 | 148.2 | 184.2 | 209.7  |
| 63.5  | 20°   | 80.5  | 91.1  | 97.4  | 91.1  | 91.1  | 95.3  | 110.1 | 139.8 | 186.4 | 224.5  |
| 46.6  | 22.5° | 63.5  | 74.1  | 82.6  | 80.5  | 80.5  | 82.6  | 101.6 | 133.4 | 188.5 | 249.9  |
| 27.5  | 25°   | 46.6  | 57.2  | 63.5  | 67.8  | 67.8  | 74.1  | 93.2  | 129.2 | 196.9 | 302.8  |
| 12.7  | 27.5° | 27.5  | 40.2  | 48.7  | 52.9  | 55.1  | 63.5  | 86.8  | 124.9 | 211.8 | 379.1  |
| 0.0   | 30°   | 12.7  | 23.3  | 33.9  | 42.4  | 42.4  | 57.2  | 80.5  | 120.7 | 230.8 | 489.2  |
| 0.0   | 32.5° | 0.0   | 10.6  | 16.9  | 29.6  | 31.8  | 46.6  | 74.1  | 116.5 | 258.4 | 595.1  |
| 0.0   | 35°   | 0.0   | 0.0   | 8.5   | 23.3  | 23.3  | 38.1  | 67.8  | 112.2 | 300.7 | 675.5  |
| 0.0   | 37.5° | 0.0   | 0.0   | 0.0   | 16.9  | 19.1  | 33.9  | 65.6  | 110.1 | 309.2 | 681.9  |
| 0.0   | 40°   | 0.0   | 0.0   | 0.0   | 12.7  | 14.8  | 31.8  | 65.6  | 112.2 | 279.5 | 667.1  |
| 0.0   | 42.5° | 0.0   | 0.0   | 0.0   | 8.5   | 10.6  | 31.8  | 65.6  | 116.5 | 252.0 | 684.0  |
| 0.0   | 45°   | 0.0   | 0.0   | 0.0   | 6.4   | 8.5   | 33.9  | 63.5  | 114.4 | 237.2 | 773.0  |
| 0.0   | 47.5° | 0.0   | 0.0   | 0.0   | 8.5   | 12.7  | 33.9  | 61.4  | 112.2 | 239.3 | 1067.3 |
| 0.0   | 50°   | 0.0   | 0.0   | 0.0   | 10.6  | 14.8  | 33.9  | 63.5  | 108.0 | 262.6 | 1641.2 |
| 0.0   | 52.5° | 0.0   | 0.0   | 0.0   | 8.5   | 12.7  | 38.1  | 69.9  | 105.9 | 285.9 | 2134.6 |
| 0.0   | 55°   | 0.0   | 0.0   | 0.0   | 2.1   | 6.4   | 48.7  | 76.2  | 105.9 | 321.9 | 2257.5 |
| 0.0   | 57.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 55.1  | 86.8  | 112.2 | 381.2 | 2208.8 |
| 0.0   | 58°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 55.1  | 88.9  | 112.2 | 385.4 | 2166.4 |
| 0.0   | 60°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 55.1  | 97.4  | 124.9 | 415.1 | 1929.2 |
| 0.0   | 62.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 46.6  | 116.5 | 156.7 | 432.0 | 1516.3 |
| 0.0   | 65°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 38.1  | 137.7 | 171.5 | 444.7 | 1207.1 |
| 0.0   | 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 36.0  | 141.9 | 173.7 | 451.1 | 961.4  |
| 0.0   | 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 38.1  | 139.8 | 186.4 | 472.2 | 781.4  |
| 0.0   | 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 42.4  | 127.1 | 205.4 | 472.2 | 692.5  |
| 0.0   | 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 44.5  | 118.6 | 230.8 | 429.9 | 599.3  |
| 0.0   | 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 42.4  | 116.5 | 268.9 | 383.3 | 493.4  |
| 0.0   | 80°   | 4.2   | 6.4   | 6.4   | 4.2   | 4.2   | 36.0  | 114.4 | 273.2 | 326.1 | 338.8  |
| 2.1   | 82.5° | 12.7  | 16.9  | 14.8  | 10.6  | 10.6  | 31.8  | 101.6 | 228.7 | 169.4 | 146.1  |
| 12.7  | 85°   | 23.3  | 27.5  | 27.5  | 23.3  | 23.3  | 29.6  | 63.5  | 82.6  | 57.2  | 46.6   |
| 23.3  | 87.5° | 31.8  | 36.0  | 36.0  | 31.8  | 31.8  | 29.6  | 27.5  | 25.4  | 23.3  | 23.3   |
| 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: SP1-2407-184-8

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

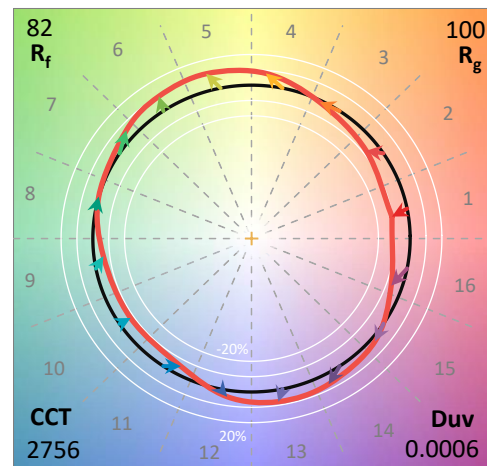
### Test Information

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

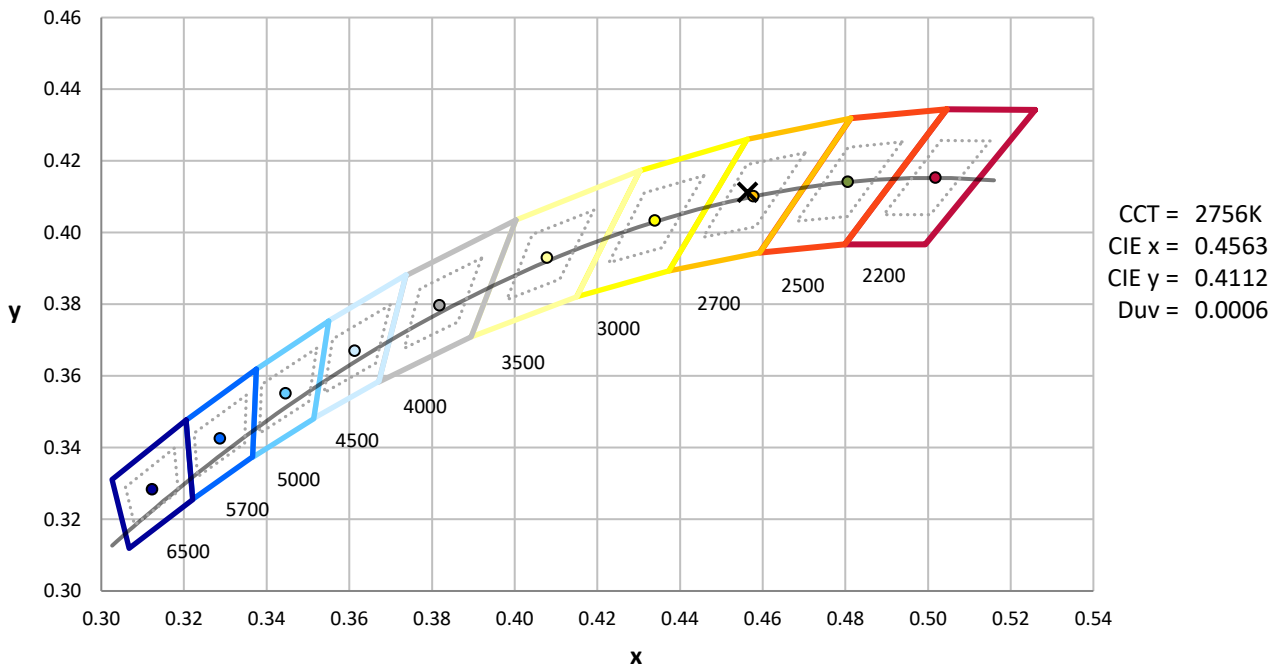
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| 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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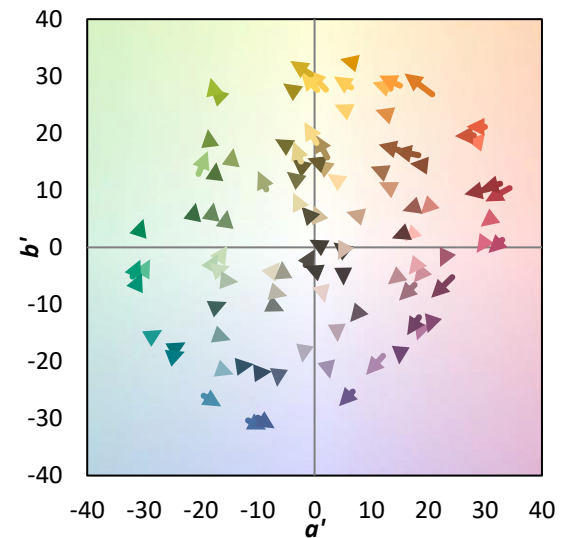
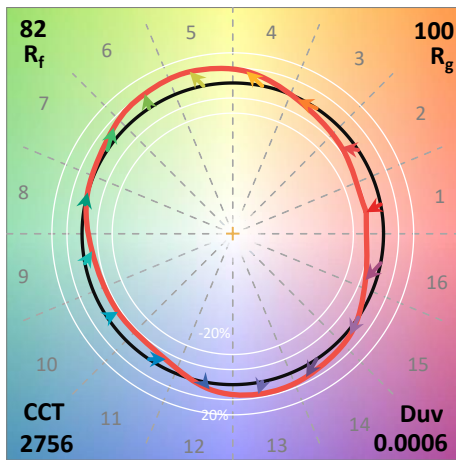
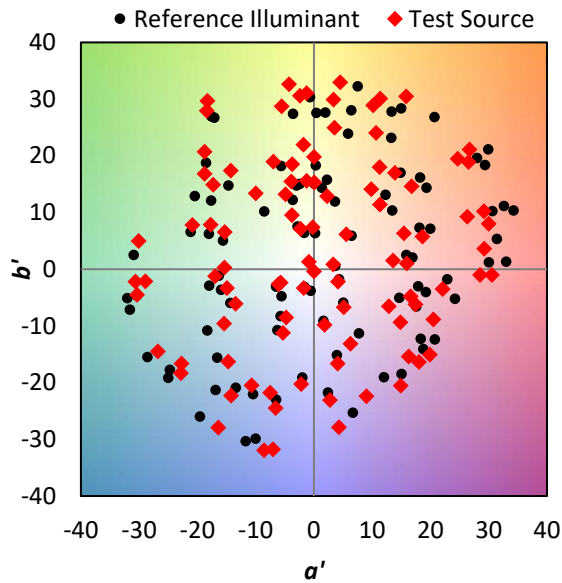
TM-30-18

### Summary

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

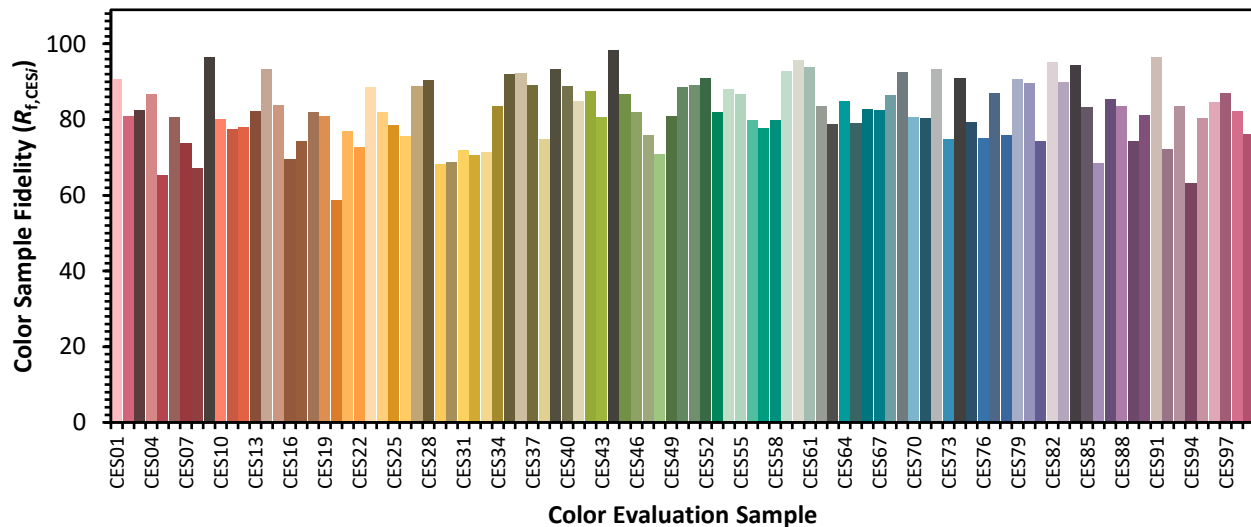


### Color Vector Graphics

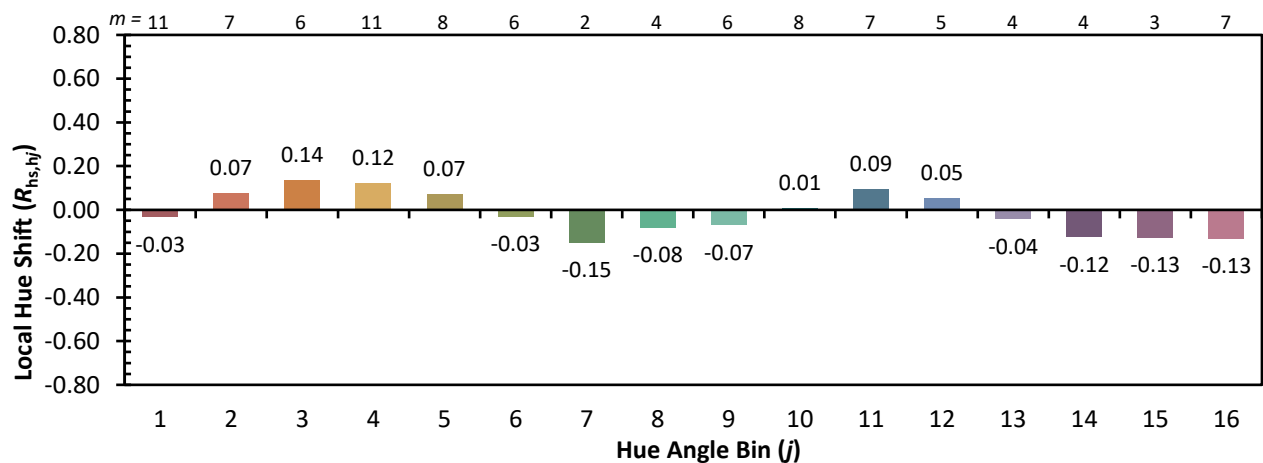


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

|            |            |            |            |
|------------|------------|------------|------------|
| 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)