

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



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

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P1049734

Luminaire Tested: **GALN-SA6B-827-U-LBC**

Issue Date: 07/10/2025



**Test Information**

Test Method: LM-79-08  
Report Number: P1049734  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/10/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6B-827-U-LBC  
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 6xLight Square PACKAGE  
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (84) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20935.4 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G4

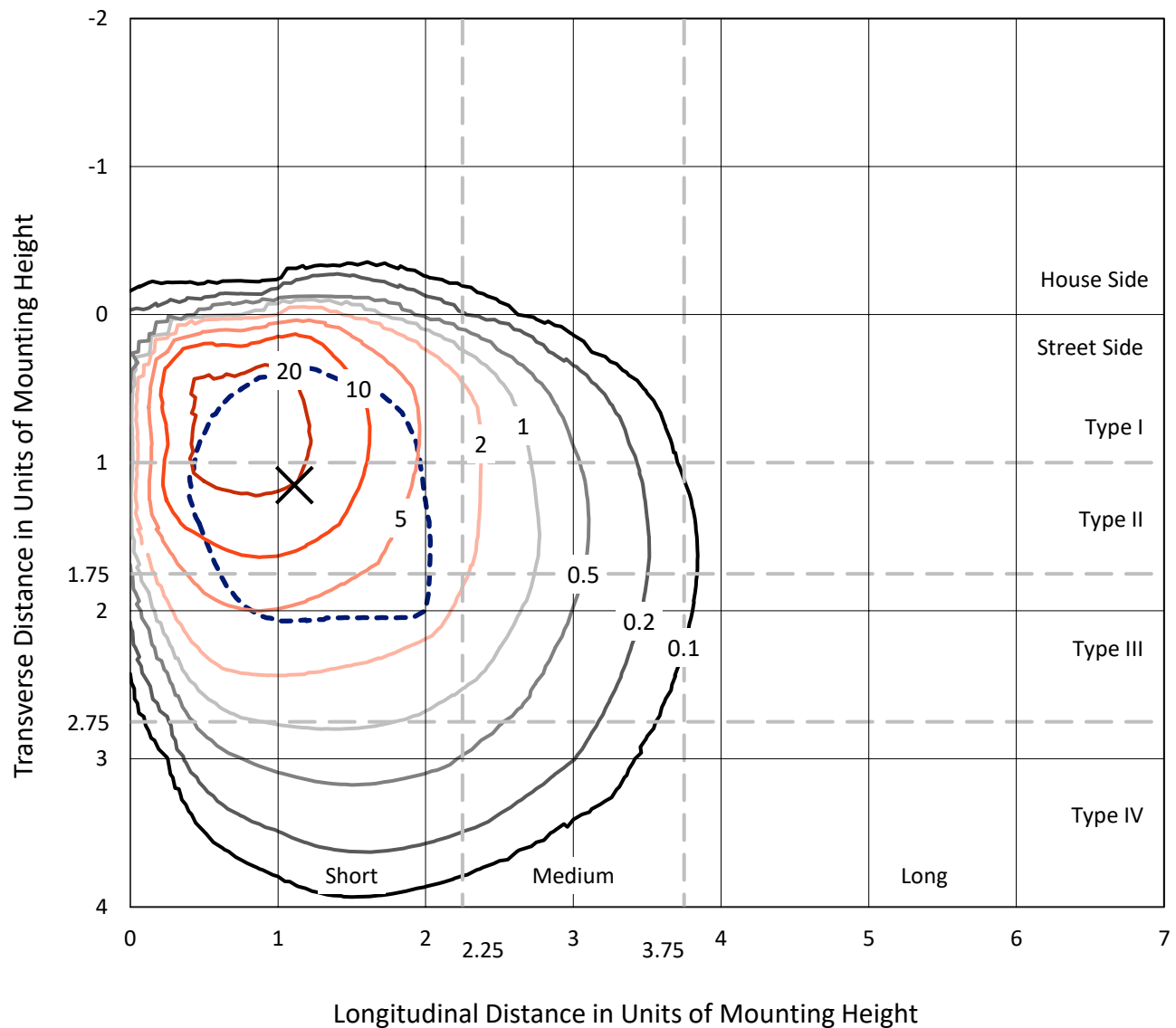
Input Watts (W): 213.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.97  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

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## Iso-Footcandle Lines of Horizontal Illumination

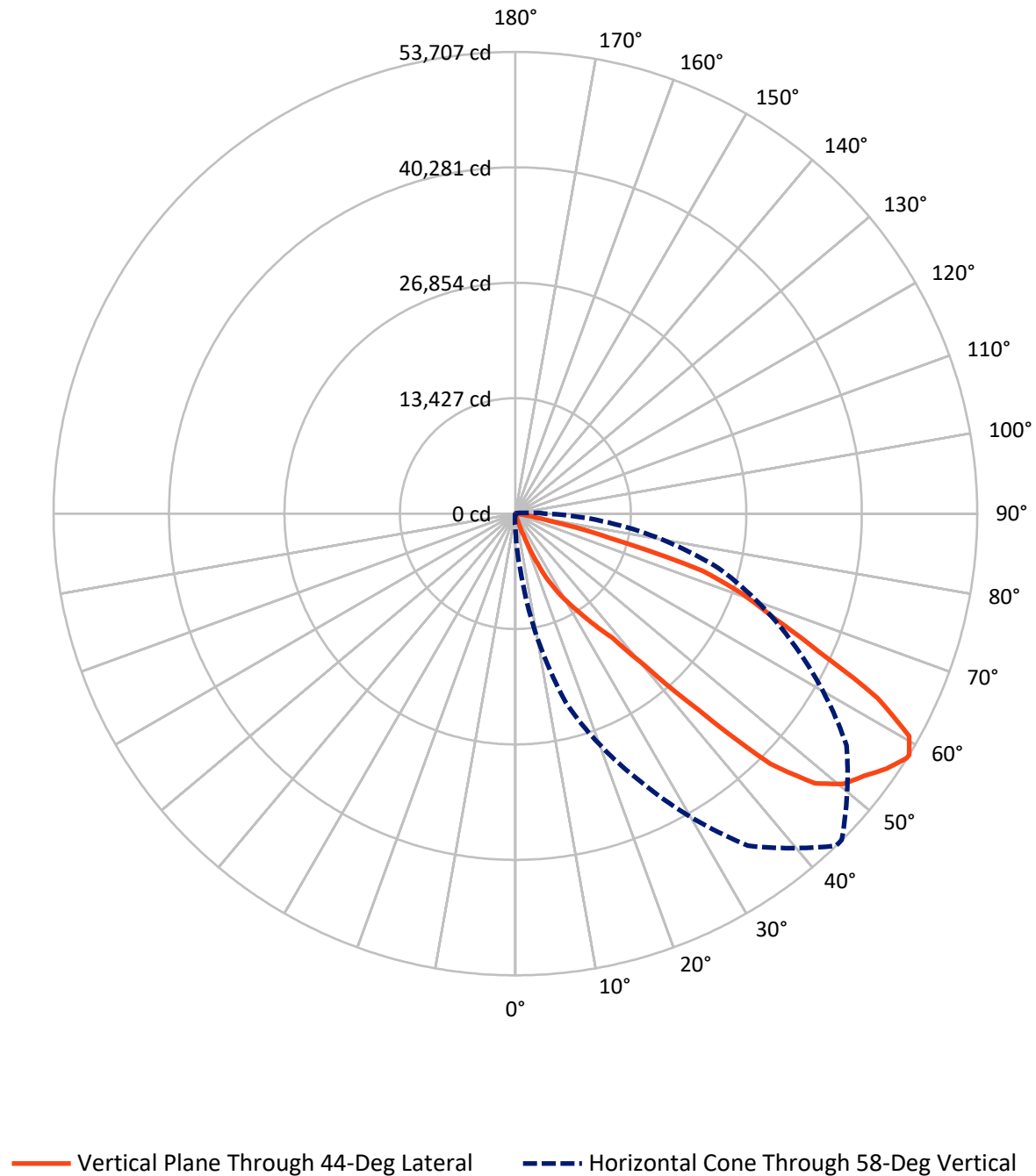
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 36.4 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    | 142.9    | 0.0    | 142.9   |
|                    | % Fixture | 0.7      | 0.0    | 0.7     |
| <b>Street Side</b> | Lumens    | 20792.4  | 0.0    | 20792.4 |
|                    | % Fixture | 99.3     | 0.0    | 99.3    |
| <b>Total</b>       | Lumens    | 20935.4  | 0.0    | 20935.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 8.2     | 0.0       |
| 10°-20°   | 45.9    | 0.2       |
| 20°-30°   | 496.0   | 2.4       |
| 30°-40°   | 1466.7  | 7.0       |
| 40°-50°   | 4371.6  | 20.9      |
| 50°-60°   | 6936.7  | 33.1      |
| 60°-70°   | 5786.1  | 27.6      |
| 70°-80°   | 1784.5  | 8.5       |
| 80°-90°   | 39.6    | 0.2       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 20935.4 | 100.0     |
| 0°-180°   | 20935.4 | 100.0     |

**Coefficient of Utilization**



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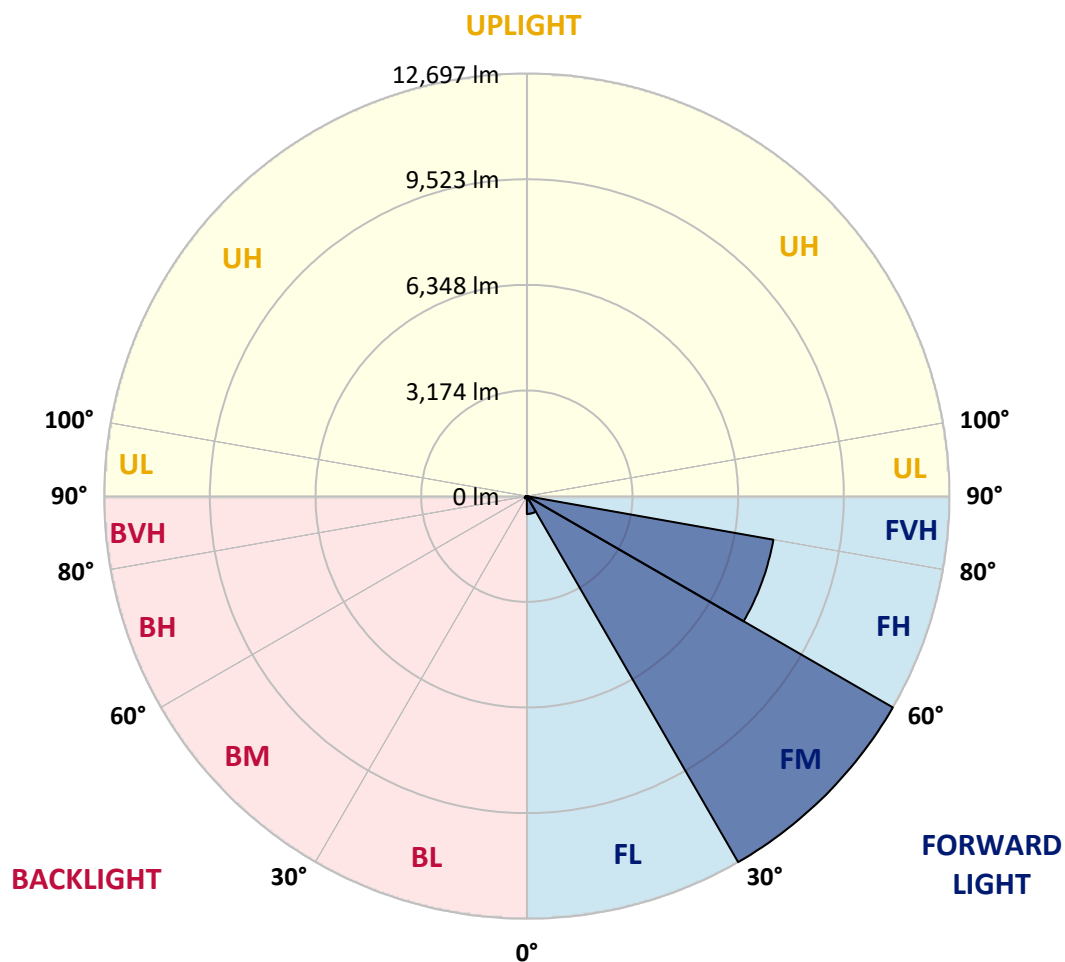
CATALOG NUMBER: GALN-SA6B-827-U-LBC

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 536.1   | 2.6       |                         |      |          |
| FM   | (30°-60°)   | 12696.9 | 60.6      |                         |      |          |
| FH   | (60°-80°)   | 7521.8  | 35.9      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 37.7    | 0.2       |                         |      | G1/100   |
| BL   | (0°-30°)    | 14.0    | 0.1       | B0/110                  |      |          |
| BM   | (30°-60°)   | 78.2    | 0.4       | B0/220                  |      |          |
| BH   | (60°-80°)   | 48.8    | 0.2       | B0/110                  |      | G0/110   |
| BVH  | (80°-90°)   | 1.9     | 0.0       |                         |      | G0/10    |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

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

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°     | 25°     | 35°     | 44°     | 45°     | 55°     | 65°     | 75°     |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 91.7   | 91.7   | 91.7    | 91.7    | 91.7    | 91.7    | 91.7    | 91.7    | 91.7    | 91.7    |
| 2.5°  | 118.6  | 118.6  | 113.9   | 107.5   | 101.2   | 94.9    | 93.3    | 90.1    | 88.6    | 87.0    |
| 5°    | 123.4  | 123.4  | 121.8   | 117.0   | 110.7   | 106.0   | 106.0   | 101.2   | 98.1    | 94.9    |
| 7.5°  | 126.5  | 128.1  | 131.3   | 129.7   | 126.5   | 121.8   | 121.8   | 118.6   | 113.9   | 106.0   |
| 10°   | 131.3  | 136.0  | 142.3   | 145.5   | 147.1   | 147.1   | 145.5   | 143.9   | 136.0   | 124.9   |
| 12.5° | 136.0  | 145.5  | 161.3   | 177.1   | 186.6   | 199.3   | 197.7   | 194.5   | 174.0   | 150.2   |
| 15°   | 145.5  | 159.7  | 192.9   | 238.8   | 310.0   | 354.3   | 371.7   | 355.8   | 287.8   | 202.4   |
| 17.5° | 156.6  | 180.3  | 279.9   | 499.8   | 819.2   | 971.0   | 1062.8  | 988.4   | 654.7   | 384.3   |
| 20°   | 167.6  | 219.8  | 520.3   | 1295.2  | 2125.5  | 2622.1  | 2759.7  | 2544.6  | 1633.7  | 732.2   |
| 22.5° | 186.6  | 308.4  | 1054.9  | 2677.5  | 4580.0  | 5324.9  | 5465.6  | 4777.7  | 3085.5  | 1445.5  |
| 25°   | 226.2  | 447.6  | 1818.7  | 4363.3  | 6835.2  | 8092.5  | 8034.0  | 7132.5  | 5005.4  | 2309.0  |
| 27.5° | 283.1  | 651.6  | 2750.2  | 6199.4  | 8995.5  | 10104.1 | 10237.0 | 9122.0  | 6672.3  | 3395.5  |
| 30°   | 365.3  | 903.0  | 3749.7  | 7670.2  | 10727.2 | 11926.0 | 11948.2 | 10795.2 | 8163.7  | 4349.1  |
| 32.5° | 444.4  | 1140.3 | 4624.3  | 9092.0  | 12433.7 | 13747.9 | 13845.9 | 12427.3 | 9277.0  | 5342.3  |
| 35°   | 504.5  | 1295.2 | 5509.9  | 10341.4 | 14154.3 | 15965.1 | 15958.8 | 14274.5 | 10596.0 | 6229.5  |
| 37.5° | 509.2  | 1450.2 | 6311.7  | 11619.2 | 16333.6 | 18361.1 | 18561.9 | 16705.3 | 12190.1 | 7327.0  |
| 40°   | 498.2  | 1624.2 | 7327.0  | 13611.9 | 20260.5 | 23371.3 | 23548.4 | 21207.8 | 15387.9 | 9205.9  |
| 42.5° | 510.8  | 1926.3 | 8975.0  | 17292.0 | 26780.9 | 31248.7 | 31590.3 | 29129.5 | 21266.3 | 13039.4 |
| 45°   | 577.2  | 2494.0 | 12427.3 | 23448.8 | 36075.4 | 41522.0 | 41408.1 | 37864.0 | 28106.2 | 18875.1 |
| 47.5° | 797.1  | 3884.1 | 17545.0 | 29441.0 | 42015.4 | 46865.9 | 46963.9 | 42632.2 | 32097.9 | 23361.8 |
| 50°   | 1225.7 | 5943.2 | 21845.1 | 32608.7 | 44569.5 | 49435.8 | 49344.1 | 44338.6 | 33614.6 | 25571.1 |
| 52.5° | 1594.1 | 7433.0 | 24002.3 | 33720.5 | 44896.9 | 50705.7 | 50699.4 | 44787.8 | 33850.2 | 25760.9 |
| 55°   | 1685.9 | 7545.3 | 24019.7 | 33780.6 | 45630.7 | 52367.9 | 52576.6 | 45893.3 | 34155.4 | 24932.2 |
| 57.5° | 1649.5 | 6680.2 | 23017.0 | 34128.6 | 46937.0 | 53653.6 | 53664.7 | 46963.9 | 34930.4 | 24424.5 |
| 58°   | 1617.9 | 6544.2 | 22814.6 | 34326.2 | 47161.6 | 53707.4 | 53680.5 | 47012.9 | 35561.4 | 24405.6 |
| 60°   | 1440.7 | 5682.3 | 22025.4 | 34830.7 | 46827.9 | 52603.5 | 52352.1 | 45942.3 | 35468.1 | 24211.0 |
| 62.5° | 1132.3 | 4432.9 | 21248.9 | 34247.2 | 43250.6 | 47259.7 | 47364.0 | 40674.3 | 32333.6 | 23077.1 |
| 65°   | 901.4  | 3303.7 | 19629.5 | 30040.4 | 35615.2 | 38809.8 | 39198.8 | 33075.3 | 26988.1 | 19540.9 |
| 67.5° | 718.0  | 2388.0 | 16466.5 | 23916.9 | 28182.1 | 32390.5 | 32673.6 | 27769.4 | 20908.9 | 14972.0 |
| 70°   | 583.6  | 1614.7 | 11366.2 | 17491.3 | 23244.7 | 27976.6 | 27994.0 | 23069.2 | 15606.1 | 9810.0  |
| 72.5° | 517.1  | 1118.1 | 6598.0  | 12756.3 | 18848.2 | 22797.2 | 22337.0 | 18720.1 | 11994.0 | 5810.4  |
| 75°   | 447.6  | 741.7  | 3235.7  | 7798.3  | 11427.8 | 11505.3 | 11680.9 | 8684.0  | 5995.4  | 2762.9  |
| 77.5° | 368.5  | 526.6  | 1274.7  | 2130.3  | 3427.1  | 4387.1  | 4549.9  | 3447.6  | 1994.3  | 680.0   |
| 80°   | 253.0  | 249.9  | 343.2   | 653.2   | 980.5   | 1228.8  | 1146.6  | 887.2   | 521.9   | 260.9   |
| 82.5° | 109.1  | 118.6  | 155.0   | 186.6   | 151.8   | 147.1   | 140.8   | 90.1    | 69.6    | 53.8    |
| 85°   | 34.8   | 31.6   | 33.2    | 33.2    | 26.9    | 20.6    | 20.6    | 9.5     | 0.0     | 0.0     |
| 87.5° | 17.4   | 14.2   | 14.2    | 12.7    | 7.9     | 3.2     | 1.6     | 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° |
|---------|-------|--------|-------|-------|------|------|------|------|------|------|------|
| 91.7    | 0°    | 91.7   | 91.7  | 91.7  | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 |
| 85.4    | 2.5°  | 83.8   | 83.8  | 80.7  | 77.5 | 75.9 | 72.7 | 71.2 | 69.6 | 68.0 | 66.4 |
| 91.7    | 5°    | 88.6   | 87.0  | 82.2  | 77.5 | 72.7 | 68.0 | 64.8 | 61.7 | 58.5 | 56.9 |
| 101.2   | 7.5°  | 96.5   | 93.3  | 83.8  | 75.9 | 69.6 | 63.3 | 60.1 | 55.4 | 52.2 | 47.4 |
| 112.3   | 10°   | 106.0  | 99.6  | 87.0  | 77.5 | 68.0 | 60.1 | 55.4 | 50.6 | 45.9 | 39.5 |
| 128.1   | 12.5° | 118.6  | 107.5 | 91.7  | 75.9 | 64.8 | 55.4 | 50.6 | 44.3 | 39.5 | 34.8 |
| 148.7   | 15°   | 129.7  | 115.4 | 93.3  | 75.9 | 61.7 | 50.6 | 44.3 | 38.0 | 33.2 | 26.9 |
| 186.6   | 17.5° | 145.5  | 121.8 | 91.7  | 71.2 | 56.9 | 44.3 | 38.0 | 33.2 | 25.3 | 15.8 |
| 276.8   | 20°   | 172.4  | 126.5 | 88.6  | 66.4 | 49.0 | 36.4 | 28.5 | 22.1 | 11.1 | 3.2  |
| 415.9   | 22.5° | 215.1  | 139.2 | 85.4  | 60.1 | 42.7 | 28.5 | 19.0 | 7.9  | 0.0  | 0.0  |
| 632.6   | 25°   | 297.3  | 161.3 | 85.4  | 56.9 | 38.0 | 20.6 | 6.3  | 0.0  | 0.0  | 0.0  |
| 898.3   | 27.5° | 395.4  | 191.4 | 85.4  | 49.0 | 30.0 | 11.1 | 0.0  | 0.0  | 0.0  | 0.0  |
| 1224.1  | 30°   | 495.0  | 224.6 | 85.4  | 42.7 | 23.7 | 1.6  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1507.2  | 32.5° | 589.9  | 253.0 | 87.0  | 36.4 | 15.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1899.4  | 35°   | 686.4  | 257.8 | 85.4  | 31.6 | 9.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2380.1  | 37.5° | 809.7  | 248.3 | 80.7  | 28.5 | 4.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 3131.3  | 40°   | 996.3  | 253.0 | 75.9  | 26.9 | 1.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 4470.9  | 42.5° | 1341.1 | 273.6 | 69.6  | 26.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 7121.4  | 45°   | 2318.5 | 366.9 | 63.3  | 28.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 10690.9 | 47.5° | 3835.1 | 659.5 | 61.7  | 28.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 12878.1 | 50°   | 4894.7 | 830.3 | 64.8  | 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 13151.7 | 52.5° | 4886.8 | 925.2 | 68.0  | 31.6 | 6.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 12122.1 | 55°   | 4344.4 | 942.6 | 72.7  | 34.8 | 20.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 10417.3 | 57.5° | 3631.1 | 860.3 | 83.8  | 42.7 | 38.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 10150.0 | 58°   | 3504.6 | 822.4 | 87.0  | 44.3 | 41.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 8804.2  | 60°   | 2872.0 | 670.6 | 110.7 | 55.4 | 55.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 7217.9  | 62.5° | 1983.2 | 585.2 | 126.5 | 71.2 | 56.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5321.7  | 65°   | 1402.8 | 528.2 | 137.6 | 75.9 | 45.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 3781.3  | 67.5° | 1048.5 | 487.1 | 151.8 | 77.5 | 23.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2372.2  | 70°   | 803.4  | 457.1 | 186.6 | 82.2 | 6.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1413.9  | 72.5° | 654.7  | 422.3 | 226.2 | 85.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 847.7   | 75°   | 542.5  | 381.1 | 218.2 | 93.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 452.3   | 77.5° | 360.6  | 295.7 | 199.3 | 93.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 161.3   | 80°   | 126.5  | 117.0 | 155.0 | 82.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 33.2    | 82.5° | 19.0   | 15.8  | 22.1  | 28.5 | 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°  |
|------|-------|------|------|------|------|------|------|------|------|------|-------|
| 91.7 | 0°    | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7  |
| 64.8 | 2.5°  | 64.8 | 64.8 | 63.3 | 64.8 | 64.8 | 68.0 | 75.9 | 87.0 | 99.6 | 104.4 |
| 55.4 | 5°    | 53.8 | 52.2 | 50.6 | 50.6 | 50.6 | 55.4 | 61.7 | 74.3 | 88.6 | 94.9  |
| 45.9 | 7.5°  | 44.3 | 42.7 | 41.1 | 39.5 | 39.5 | 42.7 | 50.6 | 64.8 | 79.1 | 85.4  |
| 38.0 | 10°   | 36.4 | 33.2 | 31.6 | 30.0 | 30.0 | 33.2 | 41.1 | 55.4 | 71.2 | 77.5  |
| 31.6 | 12.5° | 30.0 | 25.3 | 22.1 | 20.6 | 19.0 | 23.7 | 31.6 | 44.3 | 61.7 | 69.6  |
| 23.7 | 15°   | 20.6 | 15.8 | 11.1 | 9.5  | 7.9  | 12.7 | 20.6 | 34.8 | 52.2 | 61.7  |
| 12.7 | 17.5° | 11.1 | 4.7  | 1.6  | 0.0  | 0.0  | 3.2  | 9.5  | 25.3 | 42.7 | 50.6  |
| 0.0  | 20°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 12.7 | 31.6 | 39.5  |
| 0.0  | 22.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.6  | 19.0 | 26.9  |
| 0.0  | 25°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.9  | 14.2  |
| 0.0  | 27.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2   |
| 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  | 4.7   |
| 0.0  | 87.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.3  | 12.7  |
| 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: P1049734

CATALOG NUMBER: GALN-SA6B-827-U-LBC

**CANDELA DISTRIBUTION (continued):**

| 275°  |       | 285°  | 295°  | 305°  | 315°  | 316°  | 325°  | 335°  | 345°  | 355°  | 360°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 91.7  | 0°    | 91.7  | 91.7  | 91.7  | 91.7  | 91.7  | 91.7  | 91.7  | 91.7  | 91.7  | 91.7   |
| 109.1 | 2.5°  | 112.3 | 110.7 | 107.5 | 104.4 | 104.4 | 104.4 | 109.1 | 113.9 | 118.6 | 118.6  |
| 98.1  | 5°    | 104.4 | 104.4 | 102.8 | 99.6  | 99.6  | 101.2 | 107.5 | 115.4 | 121.8 | 123.4  |
| 90.1  | 7.5°  | 96.5  | 99.6  | 96.5  | 94.9  | 96.5  | 98.1  | 104.4 | 113.9 | 123.4 | 126.5  |
| 83.8  | 10°   | 91.7  | 93.3  | 93.3  | 91.7  | 91.7  | 94.9  | 101.2 | 113.9 | 126.5 | 131.3  |
| 75.9  | 12.5° | 85.4  | 88.6  | 87.0  | 87.0  | 87.0  | 90.1  | 98.1  | 112.3 | 129.7 | 136.0  |
| 68.0  | 15°   | 79.1  | 83.8  | 83.8  | 82.2  | 82.2  | 83.8  | 94.9  | 110.7 | 134.4 | 145.5  |
| 58.5  | 17.5° | 72.7  | 77.5  | 79.1  | 75.9  | 75.9  | 79.1  | 90.1  | 110.7 | 137.6 | 156.6  |
| 47.4  | 20°   | 60.1  | 68.0  | 72.7  | 68.0  | 68.0  | 71.2  | 82.2  | 104.4 | 139.2 | 167.6  |
| 34.8  | 22.5° | 47.4  | 55.4  | 61.7  | 60.1  | 60.1  | 61.7  | 75.9  | 99.6  | 140.8 | 186.6  |
| 20.6  | 25°   | 34.8  | 42.7  | 47.4  | 50.6  | 50.6  | 55.4  | 69.6  | 96.5  | 147.1 | 226.2  |
| 9.5   | 27.5° | 20.6  | 30.0  | 36.4  | 39.5  | 41.1  | 47.4  | 64.8  | 93.3  | 158.1 | 283.1  |
| 0.0   | 30°   | 9.5   | 17.4  | 25.3  | 31.6  | 31.6  | 42.7  | 60.1  | 90.1  | 172.4 | 365.3  |
| 0.0   | 32.5° | 0.0   | 7.9   | 12.7  | 22.1  | 23.7  | 34.8  | 55.4  | 87.0  | 192.9 | 444.4  |
| 0.0   | 35°   | 0.0   | 0.0   | 6.3   | 17.4  | 17.4  | 28.5  | 50.6  | 83.8  | 224.6 | 504.5  |
| 0.0   | 37.5° | 0.0   | 0.0   | 0.0   | 12.7  | 14.2  | 25.3  | 49.0  | 82.2  | 230.9 | 509.2  |
| 0.0   | 40°   | 0.0   | 0.0   | 0.0   | 9.5   | 11.1  | 23.7  | 49.0  | 83.8  | 208.8 | 498.2  |
| 0.0   | 42.5° | 0.0   | 0.0   | 0.0   | 6.3   | 7.9   | 23.7  | 49.0  | 87.0  | 188.2 | 510.8  |
| 0.0   | 45°   | 0.0   | 0.0   | 0.0   | 4.7   | 6.3   | 25.3  | 47.4  | 85.4  | 177.1 | 577.2  |
| 0.0   | 47.5° | 0.0   | 0.0   | 0.0   | 6.3   | 9.5   | 25.3  | 45.9  | 83.8  | 178.7 | 797.1  |
| 0.0   | 50°   | 0.0   | 0.0   | 0.0   | 7.9   | 11.1  | 25.3  | 47.4  | 80.7  | 196.1 | 1225.7 |
| 0.0   | 52.5° | 0.0   | 0.0   | 0.0   | 6.3   | 9.5   | 28.5  | 52.2  | 79.1  | 213.5 | 1594.1 |
| 0.0   | 55°   | 0.0   | 0.0   | 0.0   | 1.6   | 4.7   | 36.4  | 56.9  | 79.1  | 240.4 | 1685.9 |
| 0.0   | 57.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 41.1  | 64.8  | 83.8  | 284.7 | 1649.5 |
| 0.0   | 58°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 41.1  | 66.4  | 83.8  | 287.8 | 1617.9 |
| 0.0   | 60°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 41.1  | 72.7  | 93.3  | 310.0 | 1440.7 |
| 0.0   | 62.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 34.8  | 87.0  | 117.0 | 322.6 | 1132.3 |
| 0.0   | 65°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 28.5  | 102.8 | 128.1 | 332.1 | 901.4  |
| 0.0   | 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 26.9  | 106.0 | 129.7 | 336.9 | 718.0  |
| 0.0   | 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 28.5  | 104.4 | 139.2 | 352.7 | 583.6  |
| 0.0   | 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 31.6  | 94.9  | 153.4 | 352.7 | 517.1  |
| 0.0   | 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 33.2  | 88.6  | 172.4 | 321.0 | 447.6  |
| 0.0   | 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 31.6  | 87.0  | 200.8 | 286.2 | 368.5  |
| 0.0   | 80°   | 3.2   | 4.7   | 4.7   | 3.2   | 3.2   | 26.9  | 85.4  | 204.0 | 243.5 | 253.0  |
| 1.6   | 82.5° | 9.5   | 12.7  | 11.1  | 7.9   | 7.9   | 23.7  | 75.9  | 170.8 | 126.5 | 109.1  |
| 9.5   | 85°   | 17.4  | 20.6  | 20.6  | 17.4  | 17.4  | 22.1  | 47.4  | 61.7  | 42.7  | 34.8   |
| 17.4  | 87.5° | 23.7  | 26.9  | 26.9  | 23.7  | 23.7  | 22.1  | 20.6  | 19.0  | 17.4  | 17.4   |
| 0.0   | 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |

(END OF RI



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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-8

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

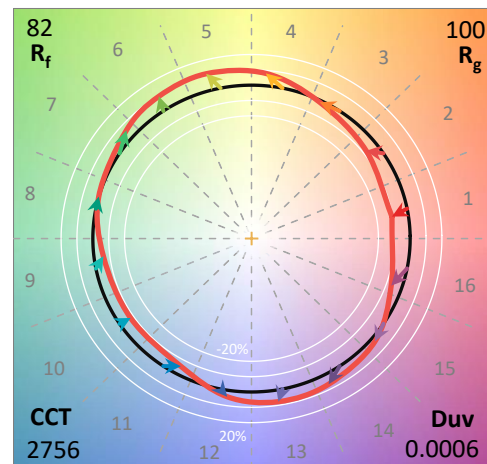
### Test Information

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

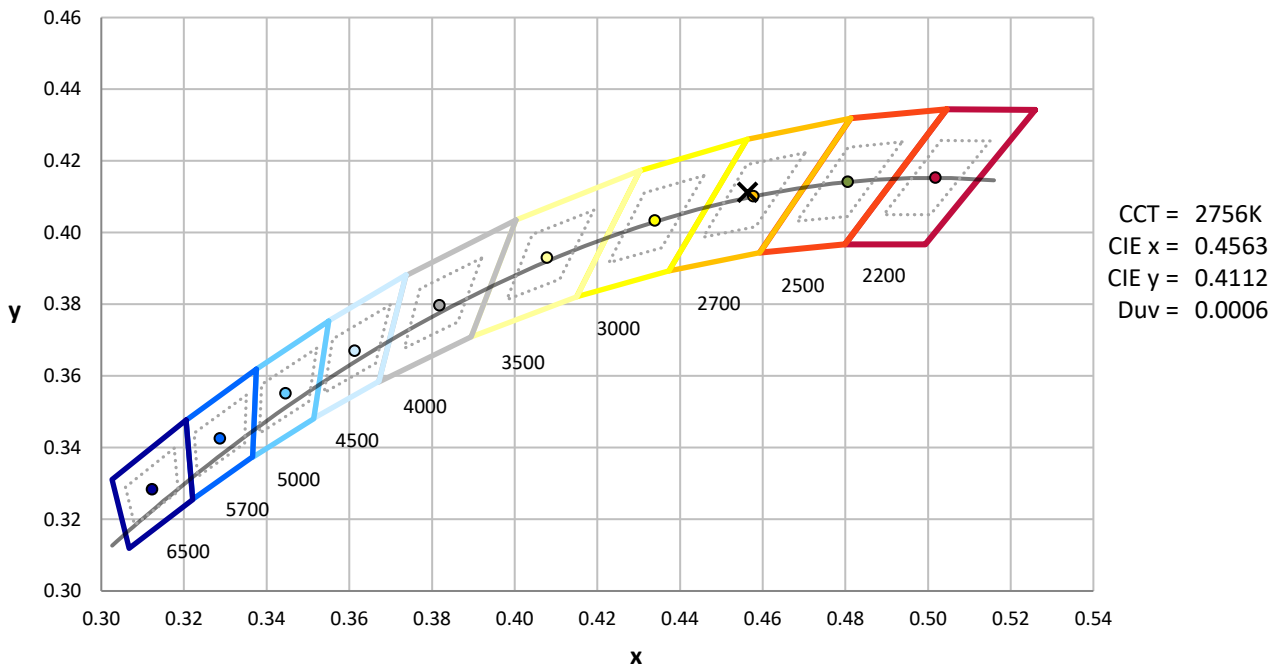
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date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

| $\lambda$<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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### 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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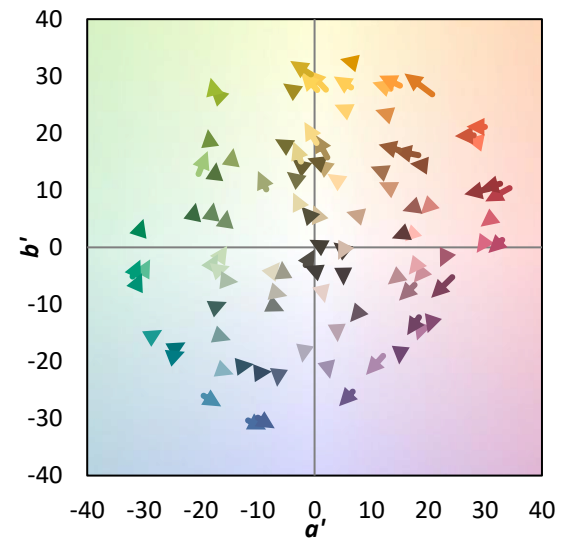
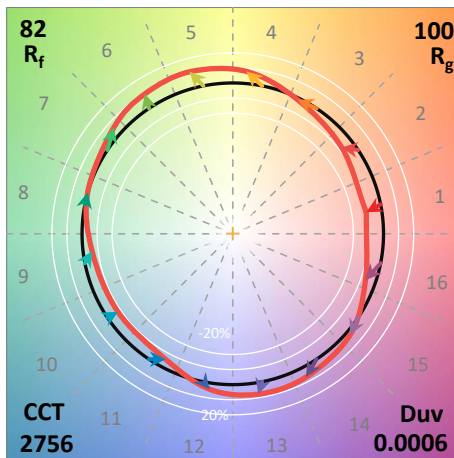
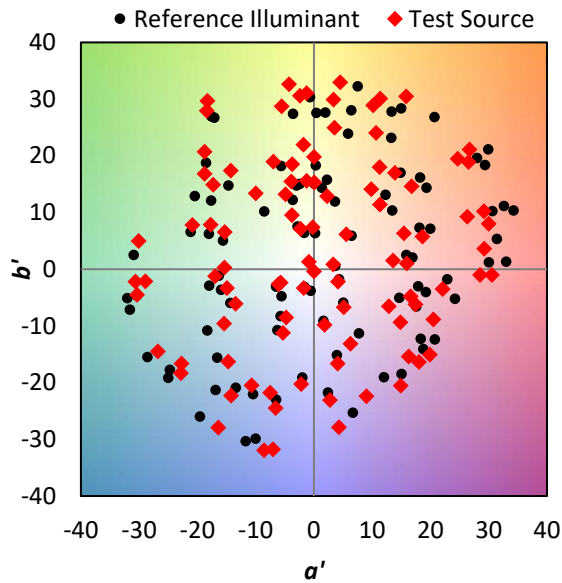
TM-30-18

### Summary

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

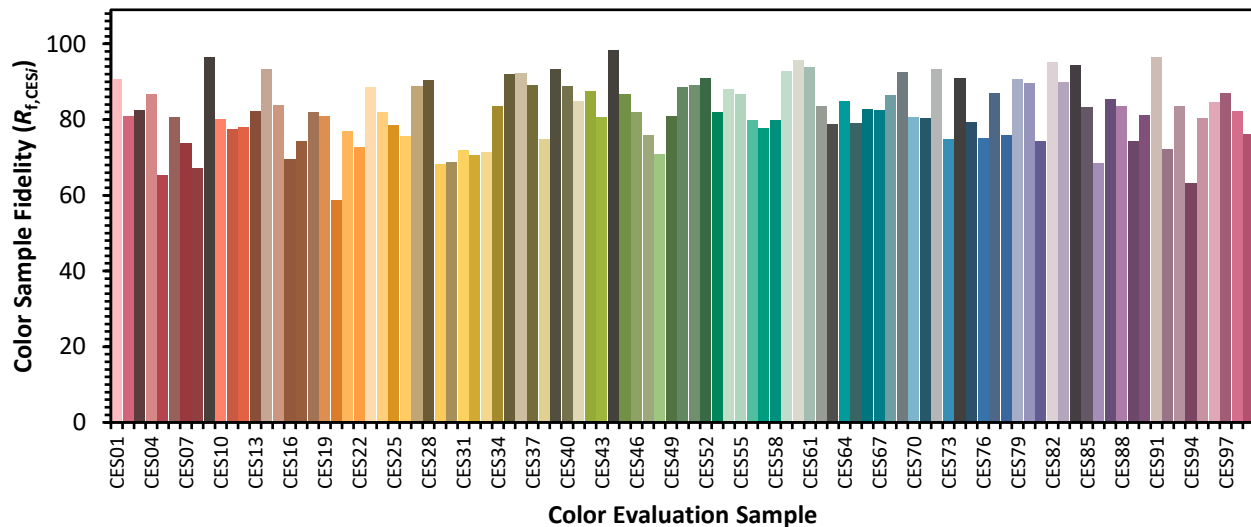


### Color Vector Graphics

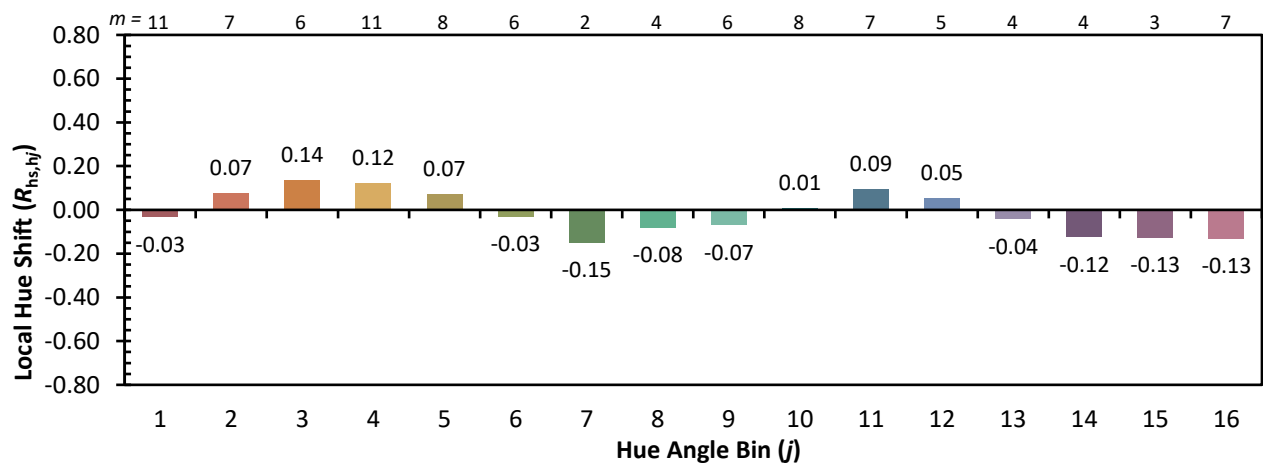


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

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