

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: P1049811

Luminaire Tested: **GALN-SA7C-835-U-LBC**

Issue Date: 07/10/2025



**Test Information**

Test Method: LM-79-08  
Report Number: P1049811  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/10/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7C-835-U-LBC  
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 7xLight Square PACKAGE  
80CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (98) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31687.4 lumens  
Efficiency: N/A  
Efficacy: 96.0 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): 330  
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

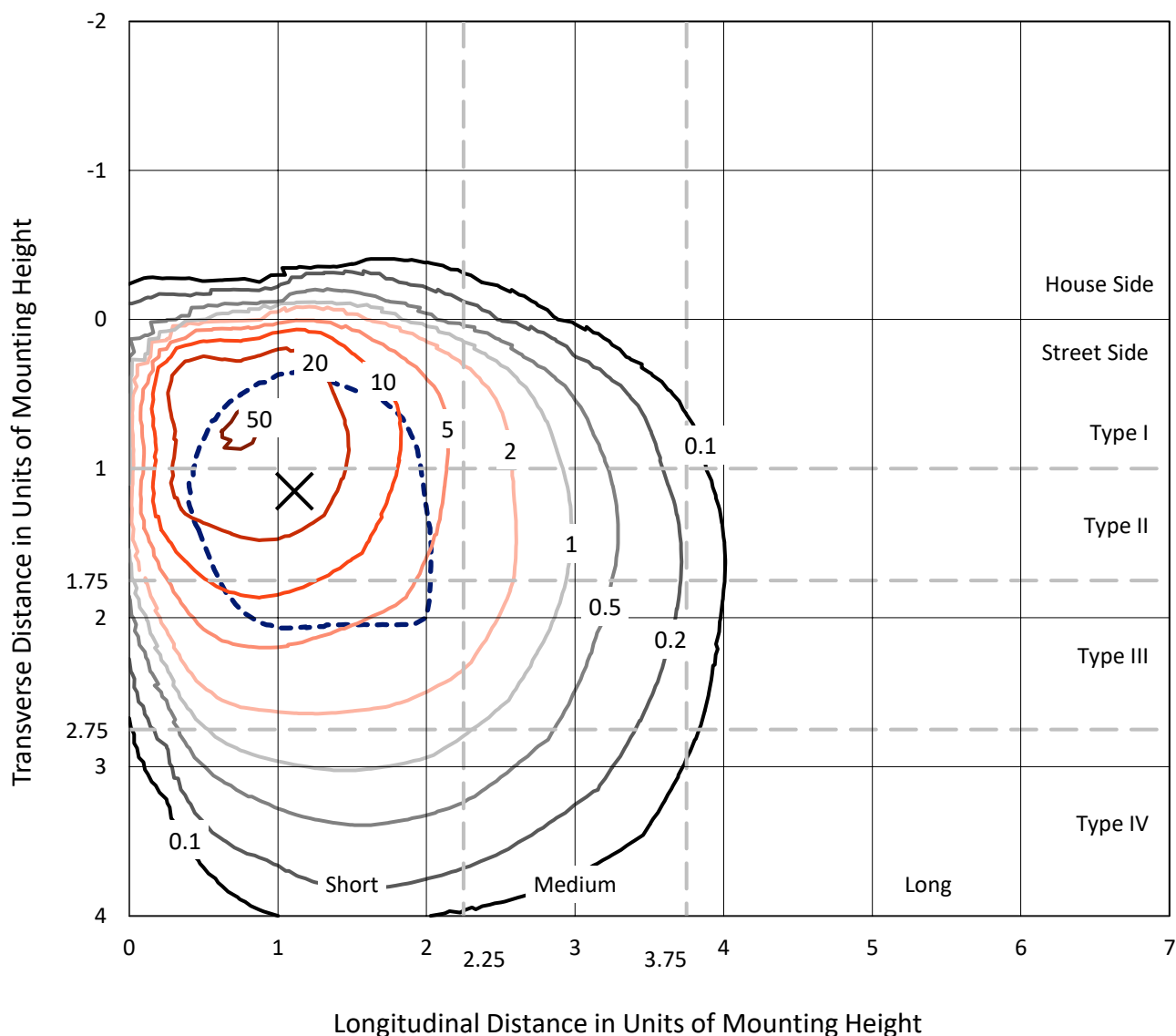
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

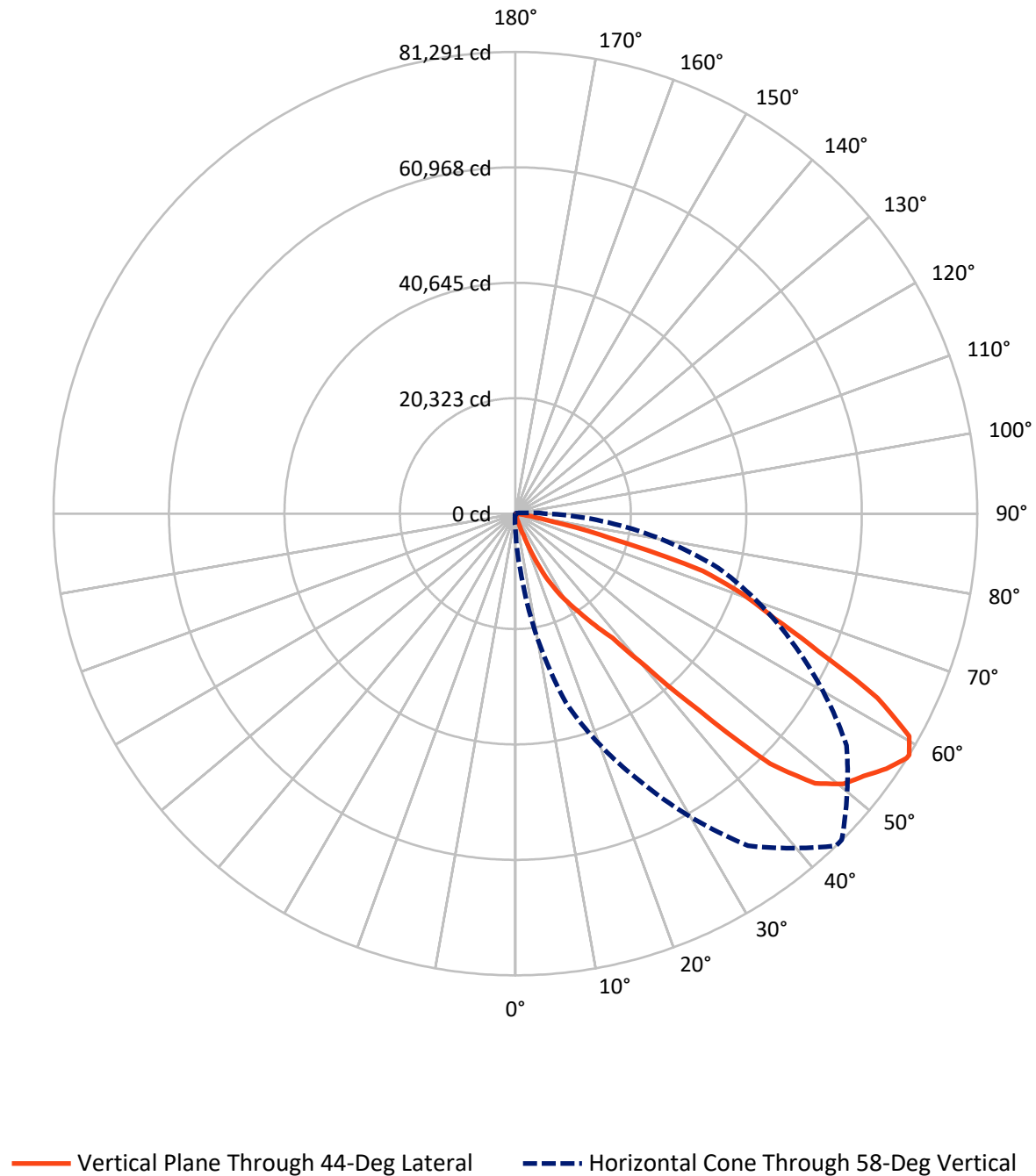
--- 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 55.2 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    | 216.4    | 0.0    | 216.4   |
|                    | % Fixture | 0.7      | 0.0    | 0.7     |
| <b>Street Side</b> | Lumens    | 31471.0  | 0.0    | 31471.0 |
|                    | % Fixture | 99.3     | 0.0    | 99.3    |
| <b>Total</b>       | Lumens    | 31687.4  | 0.0    | 31687.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 12.4    | 0.0       |
| 10°-20°   | 69.5    | 0.2       |
| 20°-30°   | 750.7   | 2.4       |
| 30°-40°   | 2220.0  | 7.0       |
| 40°-50°   | 6616.8  | 20.9      |
| 50°-60°   | 10499.3 | 33.1      |
| 60°-70°   | 8757.7  | 27.6      |
| 70°-80°   | 2701.0  | 8.5       |
| 80°-90°   | 60.0    | 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°    | 31687.4 | 100.0     |
| 0°-180°   | 31687.4 | 100.0     |



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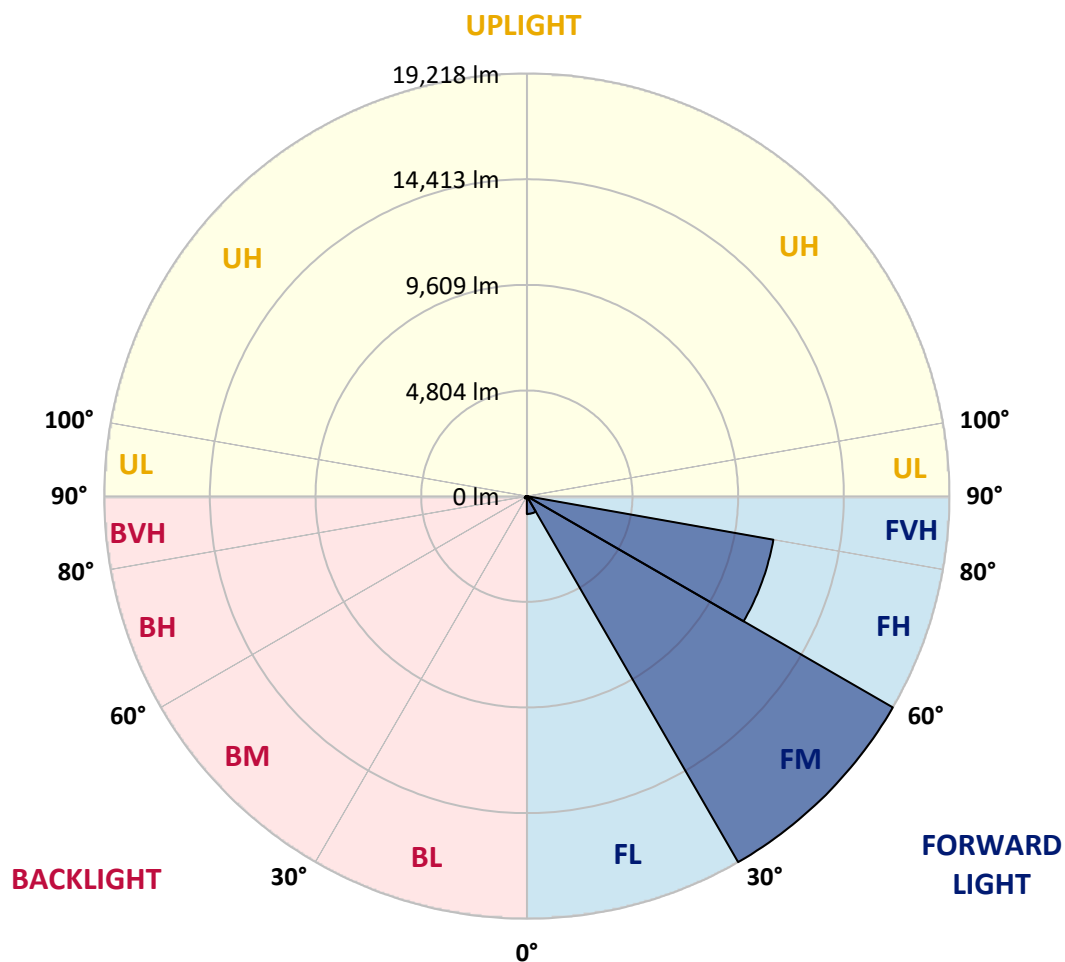
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 811.4   | 2.6       |                         |      |          |
| FM   | (30°-60°)   | 19217.7 | 60.6      |                         |      |          |
| FH   | (60°-80°)   | 11384.8 | 35.9      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 57.1    | 0.2       |                         |      | G1/100   |
| BL   | (0°-30°)    | 21.2    | 0.1       | B0/110                  |      |          |
| BM   | (30°-60°)   | 118.4   | 0.4       | B0/220                  |      |          |
| BH   | (60°-80°)   | 73.9    | 0.2       | B0/110                  |      | G0/110   |
| BVH  | (80°-90°)   | 2.9     | 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°    | 138.8  | 138.8   | 138.8   | 138.8   | 138.8   | 138.8   | 138.8   | 138.8   | 138.8   | 138.8   |
| 2.5°  | 179.5  | 179.5   | 172.3   | 162.8   | 153.2   | 143.6   | 141.2   | 136.4   | 134.0   | 131.7   |
| 5°    | 186.7  | 186.7   | 184.3   | 177.1   | 167.6   | 160.4   | 160.4   | 153.2   | 148.4   | 143.6   |
| 7.5°  | 191.5  | 193.9   | 198.7   | 196.3   | 191.5   | 184.3   | 184.3   | 179.5   | 172.3   | 160.4   |
| 10°   | 198.7  | 205.9   | 215.4   | 220.2   | 222.6   | 222.6   | 220.2   | 217.8   | 205.9   | 189.1   |
| 12.5° | 205.9  | 220.2   | 244.2   | 268.1   | 282.5   | 301.6   | 299.2   | 294.4   | 263.3   | 227.4   |
| 15°   | 220.2  | 241.8   | 292.0   | 361.5   | 469.2   | 536.2   | 562.5   | 538.6   | 435.7   | 306.4   |
| 17.5° | 237.0  | 272.9   | 423.7   | 756.4   | 1239.9  | 1469.7  | 1608.6  | 1496.1  | 991.0   | 581.7   |
| 20°   | 253.7  | 332.7   | 787.5   | 1960.5  | 3217.2  | 3968.8  | 4177.0  | 3851.5  | 2472.7  | 1108.3  |
| 22.5° | 282.5  | 466.8   | 1596.6  | 4052.6  | 6932.2  | 8059.6  | 8272.7  | 7231.4  | 4670.1  | 2187.9  |
| 25°   | 342.3  | 677.4   | 2752.8  | 6604.3  | 10345.6 | 12248.6 | 12160.1 | 10795.6 | 7576.1  | 3494.8  |
| 27.5° | 428.5  | 986.2   | 4162.7  | 9383.4  | 13615.4 | 15293.4 | 15494.5 | 13806.9 | 10099.1 | 5139.3  |
| 30°   | 552.9  | 1366.8  | 5675.5  | 11609.5 | 16236.6 | 18051.0 | 18084.5 | 16339.5 | 12356.4 | 6582.7  |
| 32.5° | 672.6  | 1725.9  | 6999.2  | 13761.5 | 18819.4 | 20808.6 | 20957.0 | 18809.8 | 14041.5 | 8086.0  |
| 35°   | 763.6  | 1960.5  | 8339.7  | 15652.5 | 21423.7 | 24164.5 | 24155.0 | 21605.7 | 16037.9 | 9428.8  |
| 37.5° | 770.8  | 2195.0  | 9553.3  | 17586.6 | 24722.3 | 27791.0 | 28095.0 | 25284.8 | 18450.7 | 11090.1 |
| 40°   | 754.0  | 2458.3  | 11090.1 | 20602.7 | 30665.9 | 35374.3 | 35642.4 | 32099.7 | 23290.8 | 13933.8 |
| 42.5° | 773.2  | 2915.5  | 13584.3 | 26172.9 | 40535.2 | 47297.4 | 47814.4 | 44089.8 | 32188.3 | 19736.2 |
| 45°   | 873.7  | 3774.9  | 18809.8 | 35491.6 | 54603.0 | 62847.0 | 62674.6 | 57310.3 | 42541.1 | 28569.0 |
| 47.5° | 1206.4 | 5879.0  | 26555.9 | 44561.4 | 63593.8 | 70935.3 | 71083.7 | 64527.3 | 48582.8 | 35359.9 |
| 50°   | 1855.1 | 8995.6  | 33064.4 | 49356.0 | 67459.6 | 74825.1 | 74686.3 | 67110.2 | 50878.4 | 38704.0 |
| 52.5° | 2412.9 | 11250.5 | 36329.4 | 51038.8 | 67955.1 | 76747.3 | 76737.7 | 67790.0 | 51235.1 | 38991.2 |
| 55°   | 2551.7 | 11420.4 | 36355.7 | 51129.7 | 69065.8 | 79263.0 | 79579.0 | 69463.2 | 51697.0 | 37736.9 |
| 57.5° | 2496.6 | 10111.0 | 34838.1 | 51656.3 | 71043.0 | 81209.1 | 81225.9 | 71083.7 | 52870.0 | 36968.5 |
| 58°   | 2448.8 | 9905.2  | 34531.7 | 51955.6 | 71382.9 | 81290.5 | 81249.8 | 71157.9 | 53825.1 | 36939.8 |
| 60°   | 2180.7 | 8600.6  | 33337.3 | 52719.2 | 70877.9 | 79619.7 | 79239.1 | 69537.4 | 53683.8 | 36645.4 |
| 62.5° | 1713.9 | 6709.6  | 32161.9 | 51835.9 | 65463.3 | 71531.4 | 71689.3 | 61563.9 | 48939.5 | 34929.1 |
| 65°   | 1364.4 | 5000.5  | 29710.8 | 45468.6 | 53906.4 | 58741.7 | 59330.6 | 50062.1 | 40848.7 | 29576.7 |
| 67.5° | 1086.7 | 3614.5  | 24923.3 | 36200.1 | 42656.0 | 49025.7 | 49454.1 | 42031.2 | 31647.3 | 22661.3 |
| 70°   | 883.3  | 2444.0  | 17203.6 | 26474.5 | 35182.8 | 42344.8 | 42371.1 | 34917.1 | 23621.2 | 14848.2 |
| 72.5° | 782.7  | 1692.4  | 9986.6  | 19307.7 | 28528.3 | 34505.4 | 33808.8 | 28334.4 | 18153.9 | 8794.5  |
| 75°   | 677.4  | 1122.7  | 4897.5  | 11803.4 | 17297.0 | 17414.3 | 17680.0 | 13143.9 | 9074.6  | 4181.8  |
| 77.5° | 557.7  | 797.1   | 1929.3  | 3224.3  | 5187.2  | 6640.2  | 6886.7  | 5218.3  | 3018.5  | 1029.3  |
| 80°   | 383.0  | 378.2   | 519.4   | 988.6   | 1484.1  | 1859.9  | 1735.4  | 1342.9  | 789.9   | 395.0   |
| 82.5° | 165.2  | 179.5   | 234.6   | 282.5   | 229.8   | 222.6   | 213.0   | 136.4   | 105.3   | 81.4    |
| 85°   | 52.7   | 47.9    | 50.3    | 50.3    | 40.7    | 31.1    | 31.1    | 14.4    | 0.0     | 0.0     |
| 87.5° | 26.3   | 21.5    | 21.5    | 19.1    | 12.0    | 4.8     | 2.4     | 0.0     | 0.0     | 0.0     |
| 90°   | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



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**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  |
|---------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 138.8   | 0°    | 138.8  | 138.8  | 138.8 | 138.8 | 138.8 | 138.8 | 138.8 | 138.8 | 138.8 | 138.8 |
| 129.3   | 2.5°  | 126.9  | 126.9  | 122.1 | 117.3 | 114.9 | 110.1 | 107.7 | 105.3 | 102.9 | 100.5 |
| 138.8   | 5°    | 134.0  | 131.7  | 124.5 | 117.3 | 110.1 | 102.9 | 98.1  | 93.4  | 88.6  | 86.2  |
| 153.2   | 7.5°  | 146.0  | 141.2  | 126.9 | 114.9 | 105.3 | 95.7  | 91.0  | 83.8  | 79.0  | 71.8  |
| 170.0   | 10°   | 160.4  | 150.8  | 131.7 | 117.3 | 102.9 | 91.0  | 83.8  | 76.6  | 69.4  | 59.8  |
| 193.9   | 12.5° | 179.5  | 162.8  | 138.8 | 114.9 | 98.1  | 83.8  | 76.6  | 67.0  | 59.8  | 52.7  |
| 225.0   | 15°   | 196.3  | 174.7  | 141.2 | 114.9 | 93.4  | 76.6  | 67.0  | 57.4  | 50.3  | 40.7  |
| 282.5   | 17.5° | 220.2  | 184.3  | 138.8 | 107.7 | 86.2  | 67.0  | 57.4  | 50.3  | 38.3  | 23.9  |
| 418.9   | 20°   | 260.9  | 191.5  | 134.0 | 100.5 | 74.2  | 55.1  | 43.1  | 33.5  | 16.8  | 4.8   |
| 629.5   | 22.5° | 325.5  | 210.6  | 129.3 | 91.0  | 64.6  | 43.1  | 28.7  | 12.0  | 0.0   | 0.0   |
| 957.5   | 25°   | 450.0  | 244.2  | 129.3 | 86.2  | 57.4  | 31.1  | 9.6   | 0.0   | 0.0   | 0.0   |
| 1359.6  | 27.5° | 598.4  | 289.6  | 129.3 | 74.2  | 45.5  | 16.8  | 0.0   | 0.0   | 0.0   | 0.0   |
| 1852.7  | 30°   | 749.2  | 339.9  | 129.3 | 64.6  | 35.9  | 2.4   | 0.0   | 0.0   | 0.0   | 0.0   |
| 2281.2  | 32.5° | 892.9  | 383.0  | 131.7 | 55.1  | 23.9  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 2874.9  | 35°   | 1038.9 | 390.2  | 129.3 | 47.9  | 14.4  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 3602.5  | 37.5° | 1225.6 | 375.8  | 122.1 | 43.1  | 7.2   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 4739.6  | 40°   | 1508.0 | 383.0  | 114.9 | 40.7  | 2.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 6767.0  | 42.5° | 2029.9 | 414.1  | 105.3 | 40.7  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 10778.9 | 45°   | 3509.2 | 555.3  | 95.7  | 43.1  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 16181.5 | 47.5° | 5804.8 | 998.2  | 93.4  | 43.1  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 19492.0 | 50°   | 7408.5 | 1256.7 | 98.1  | 45.5  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 19906.1 | 52.5° | 7396.6 | 1400.3 | 102.9 | 47.9  | 9.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 18347.8 | 55°   | 6575.5 | 1426.7 | 110.1 | 52.7  | 31.1  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 15767.4 | 57.5° | 5496.0 | 1302.2 | 126.9 | 64.6  | 57.4  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 15362.9 | 58°   | 5304.5 | 1244.7 | 131.7 | 67.0  | 62.2  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 13325.8 | 60°   | 4347.0 | 1014.9 | 167.6 | 83.8  | 83.8  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 10924.9 | 62.5° | 3001.7 | 885.7  | 191.5 | 107.7 | 86.2  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 8054.8  | 65°   | 2123.2 | 799.5  | 208.3 | 114.9 | 69.4  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 5723.4  | 67.5° | 1587.0 | 737.3  | 229.8 | 117.3 | 35.9  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 3590.6  | 70°   | 1216.0 | 691.8  | 282.5 | 124.5 | 9.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 2140.0  | 72.5° | 991.0  | 639.1  | 342.3 | 129.3 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 1283.0  | 75°   | 821.0  | 576.9  | 330.3 | 141.2 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 684.6   | 77.5° | 545.8  | 447.6  | 301.6 | 141.2 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 244.2   | 80°   | 191.5  | 177.1  | 234.6 | 124.5 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 50.3    | 82.5° | 28.7   | 23.9   | 33.5  | 43.1  | 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°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 138.8 | 0°    | 138.8 | 138.8 | 138.8 | 138.8 | 138.8 | 138.8 | 138.8 | 138.8 | 138.8 | 138.8 |
| 98.1  | 2.5°  | 98.1  | 98.1  | 95.7  | 98.1  | 98.1  | 102.9 | 114.9 | 131.7 | 150.8 | 158.0 |
| 83.8  | 5°    | 81.4  | 79.0  | 76.6  | 76.6  | 76.6  | 83.8  | 93.4  | 112.5 | 134.0 | 143.6 |
| 69.4  | 7.5°  | 67.0  | 64.6  | 62.2  | 59.8  | 59.8  | 64.6  | 76.6  | 98.1  | 119.7 | 129.3 |
| 57.4  | 10°   | 55.1  | 50.3  | 47.9  | 45.5  | 45.5  | 50.3  | 62.2  | 83.8  | 107.7 | 117.3 |
| 47.9  | 12.5° | 45.5  | 38.3  | 33.5  | 31.1  | 28.7  | 35.9  | 47.9  | 67.0  | 93.4  | 105.3 |
| 35.9  | 15°   | 31.1  | 23.9  | 16.8  | 14.4  | 12.0  | 19.1  | 31.1  | 52.7  | 79.0  | 93.4  |
| 19.1  | 17.5° | 16.8  | 7.2   | 2.4   | 0.0   | 0.0   | 4.8   | 14.4  | 38.3  | 64.6  | 76.6  |
| 0.0   | 20°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 19.1  | 47.9  | 59.8  |
| 0.0   | 22.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 2.4   | 28.7  | 40.7  |
| 0.0   | 25°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 12.0  | 21.5  |
| 0.0   | 27.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 4.8   |
| 0.0   | 30°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 32.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 35°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 37.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 40°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 42.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 45°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 47.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 50°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 52.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 55°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 57.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 58°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 60°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 62.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 65°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 80°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0   | 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 7.2   |
| 0.0   | 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 9.6   | 19.1  |
| 0.0   | 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

REPORT NUMBER: P1049811

CATALOG NUMBER: GALN-SA7C-835-U-LBC

**CANDELA DISTRIBUTION (continued):**

| 275°  |       | 285°  | 295°  | 305°  | 315°  | 316°  | 325°  | 335°  | 345°  | 355°  | 360°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 138.8 | 0°    | 138.8 | 138.8 | 138.8 | 138.8 | 138.8 | 138.8 | 138.8 | 138.8 | 138.8 | 138.8  |
| 165.2 | 2.5°  | 170.0 | 167.6 | 162.8 | 158.0 | 158.0 | 158.0 | 165.2 | 172.3 | 179.5 | 179.5  |
| 148.4 | 5°    | 158.0 | 158.0 | 155.6 | 150.8 | 150.8 | 153.2 | 162.8 | 174.7 | 184.3 | 186.7  |
| 136.4 | 7.5°  | 146.0 | 150.8 | 146.0 | 143.6 | 146.0 | 148.4 | 158.0 | 172.3 | 186.7 | 191.5  |
| 126.9 | 10°   | 138.8 | 141.2 | 141.2 | 138.8 | 138.8 | 143.6 | 153.2 | 172.3 | 191.5 | 198.7  |
| 114.9 | 12.5° | 129.3 | 134.0 | 131.7 | 131.7 | 131.7 | 136.4 | 148.4 | 170.0 | 196.3 | 205.9  |
| 102.9 | 15°   | 119.7 | 126.9 | 126.9 | 124.5 | 124.5 | 126.9 | 143.6 | 167.6 | 203.5 | 220.2  |
| 88.6  | 17.5° | 110.1 | 117.3 | 119.7 | 114.9 | 114.9 | 119.7 | 136.4 | 167.6 | 208.3 | 237.0  |
| 71.8  | 20°   | 91.0  | 102.9 | 110.1 | 102.9 | 102.9 | 107.7 | 124.5 | 158.0 | 210.6 | 253.7  |
| 52.7  | 22.5° | 71.8  | 83.8  | 93.4  | 91.0  | 91.0  | 93.4  | 114.9 | 150.8 | 213.0 | 282.5  |
| 31.1  | 25°   | 52.7  | 64.6  | 71.8  | 76.6  | 76.6  | 83.8  | 105.3 | 146.0 | 222.6 | 342.3  |
| 14.4  | 27.5° | 31.1  | 45.5  | 55.1  | 59.8  | 62.2  | 71.8  | 98.1  | 141.2 | 239.4 | 428.5  |
| 0.0   | 30°   | 14.4  | 26.3  | 38.3  | 47.9  | 47.9  | 64.6  | 91.0  | 136.4 | 260.9 | 552.9  |
| 0.0   | 32.5° | 0.0   | 12.0  | 19.1  | 33.5  | 35.9  | 52.7  | 83.8  | 131.7 | 292.0 | 672.6  |
| 0.0   | 35°   | 0.0   | 0.0   | 9.6   | 26.3  | 26.3  | 43.1  | 76.6  | 126.9 | 339.9 | 763.6  |
| 0.0   | 37.5° | 0.0   | 0.0   | 0.0   | 19.1  | 21.5  | 38.3  | 74.2  | 124.5 | 349.5 | 770.8  |
| 0.0   | 40°   | 0.0   | 0.0   | 0.0   | 14.4  | 16.8  | 35.9  | 74.2  | 126.9 | 316.0 | 754.0  |
| 0.0   | 42.5° | 0.0   | 0.0   | 0.0   | 9.6   | 12.0  | 35.9  | 74.2  | 131.7 | 284.9 | 773.2  |
| 0.0   | 45°   | 0.0   | 0.0   | 0.0   | 7.2   | 9.6   | 38.3  | 71.8  | 129.3 | 268.1 | 873.7  |
| 0.0   | 47.5° | 0.0   | 0.0   | 0.0   | 9.6   | 14.4  | 38.3  | 69.4  | 126.9 | 270.5 | 1206.4 |
| 0.0   | 50°   | 0.0   | 0.0   | 0.0   | 12.0  | 16.8  | 38.3  | 71.8  | 122.1 | 296.8 | 1855.1 |
| 0.0   | 52.5° | 0.0   | 0.0   | 0.0   | 9.6   | 14.4  | 43.1  | 79.0  | 119.7 | 323.2 | 2412.9 |
| 0.0   | 55°   | 0.0   | 0.0   | 0.0   | 2.4   | 7.2   | 55.1  | 86.2  | 119.7 | 363.8 | 2551.7 |
| 0.0   | 57.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 62.2  | 98.1  | 126.9 | 430.9 | 2496.6 |
| 0.0   | 58°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 62.2  | 100.5 | 126.9 | 435.7 | 2448.8 |
| 0.0   | 60°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 62.2  | 110.1 | 141.2 | 469.2 | 2180.7 |
| 0.0   | 62.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 52.7  | 131.7 | 177.1 | 488.3 | 1713.9 |
| 0.0   | 65°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 43.1  | 155.6 | 193.9 | 502.7 | 1364.4 |
| 0.0   | 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 40.7  | 160.4 | 196.3 | 509.9 | 1086.7 |
| 0.0   | 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 43.1  | 158.0 | 210.6 | 533.8 | 883.3  |
| 0.0   | 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 47.9  | 143.6 | 232.2 | 533.8 | 782.7  |
| 0.0   | 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 50.3  | 134.0 | 260.9 | 485.9 | 677.4  |
| 0.0   | 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 47.9  | 131.7 | 304.0 | 433.3 | 557.7  |
| 0.0   | 80°   | 4.8   | 7.2   | 7.2   | 4.8   | 4.8   | 40.7  | 129.3 | 308.8 | 368.6 | 383.0  |
| 2.4   | 82.5° | 14.4  | 19.1  | 16.8  | 12.0  | 12.0  | 35.9  | 114.9 | 258.5 | 191.5 | 165.2  |
| 14.4  | 85°   | 26.3  | 31.1  | 31.1  | 26.3  | 26.3  | 33.5  | 71.8  | 93.4  | 64.6  | 52.7   |
| 26.3  | 87.5° | 35.9  | 40.7  | 40.7  | 35.9  | 35.9  | 33.5  | 31.1  | 28.7  | 26.3  | 26.3   |
| 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: SP1-2407-184-10

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-835-U-5WQ

Data in this report applies to families of products including GSS-SB1A-835-U-5WQ

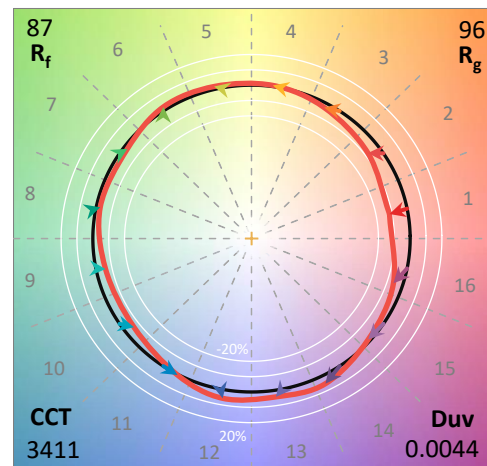
### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2407-184-10  
 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-835-U-5WQ**  
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3500K CCT 26 LEDS

### Spectral Parameters

CCT (K): 3411  
 CIE  $u'$ : 0.2360  
 CIE  $v'$ : 0.5189  
 Duv: 0.0044  
 CIE x: 0.4154  
 CIE y: 0.4059  
 CIE z: 0.1787  
 Peak Wavelength (nm): 601  
 Dominant Wavelength (nm): 579  
 Purity: 46.51914  
 R<sub>f</sub>: 86.6  
 R<sub>g</sub>: 95.9

CRI (Ra): 83.5  
 R1: 81.1  
 R2: 88.9  
 R3: 97.2  
 R4: 83.8  
 R5: 81.7  
 R6: 86.9  
 R7: 86.1  
 R8: 62.2  
 R9: 6.3  
 R10: 75.4  
 R11: 84.1  
 R12: 69.7  
 R13: 82.8  
 R14: 98.5  
 R15: 72.6



### Test Conditions

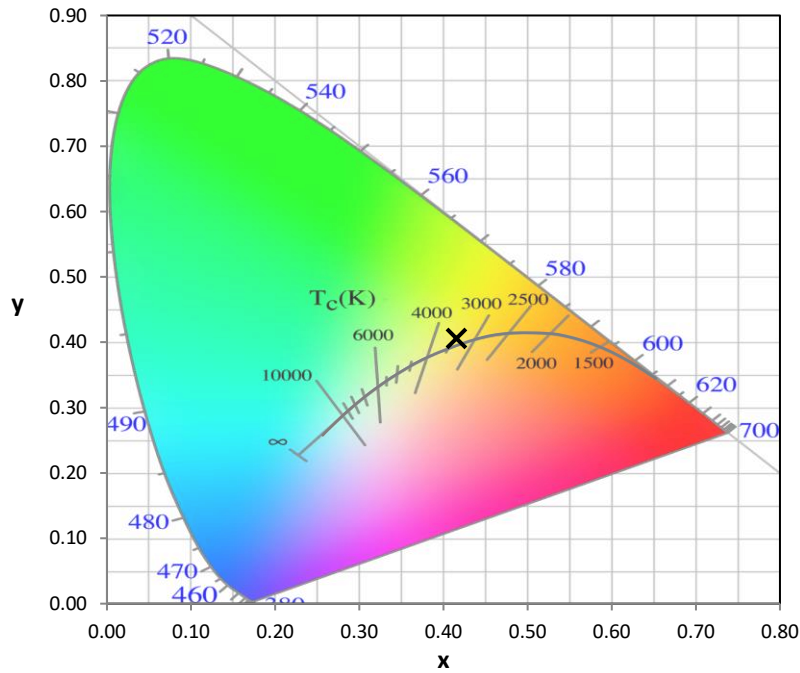
Stabilization Time: 35M  
 Operation Time: 1H 35M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-10

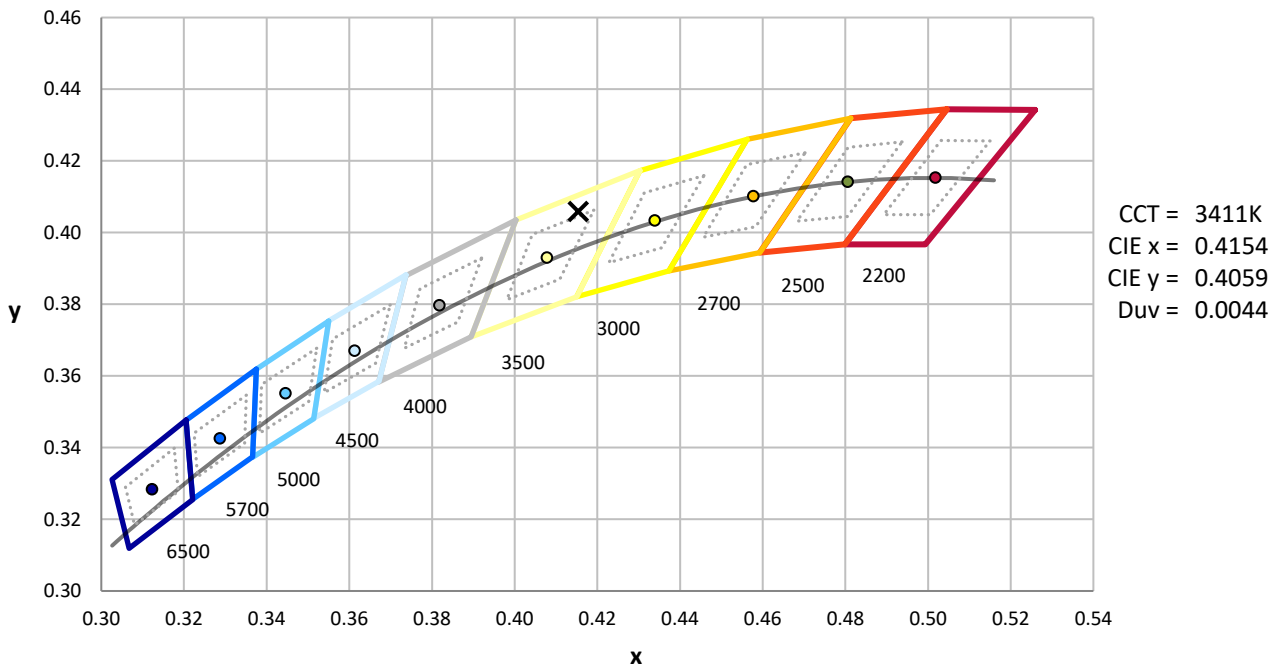
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| 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: SP1-2407-184-10

**CIE 1931 Chromaticity Diagram**



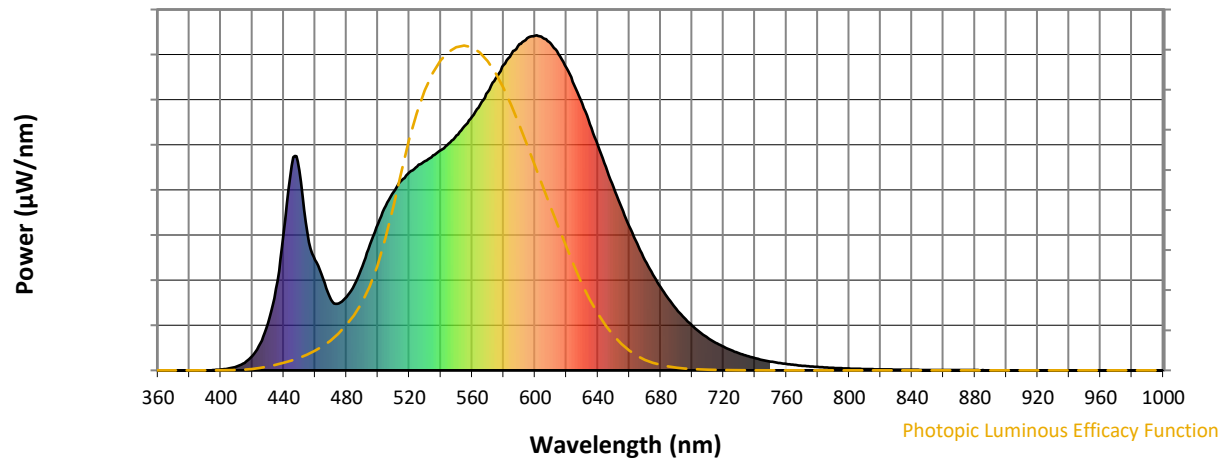
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 3500K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-10

### Photopic Flux vs. Wavelength

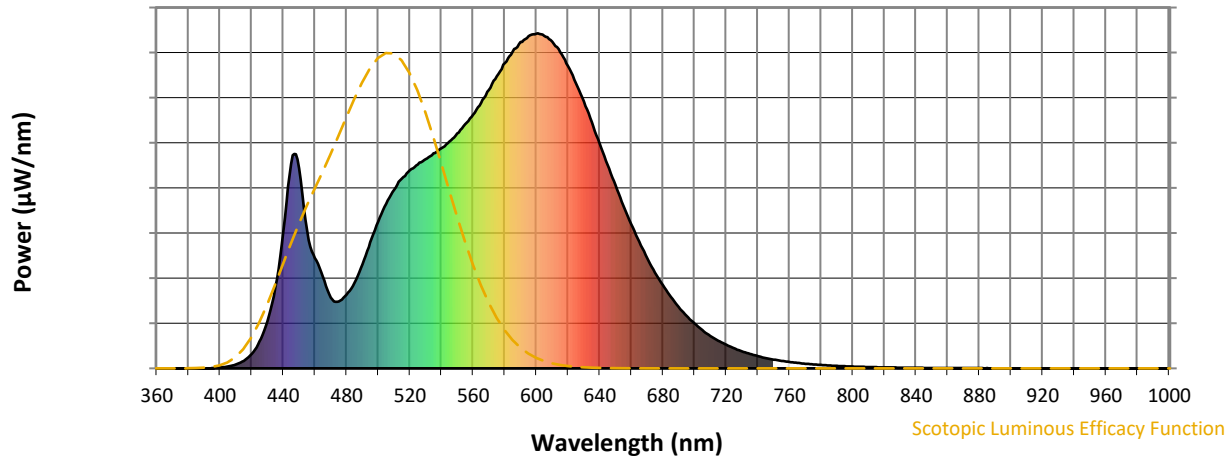


### Photopic Lumens: NR

| $\lambda$<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               | 311                                  | NR                             | 620               | 903                                  | NR                             | 750               | 26                                   | NR                             | 880               | 1                                    | NR                             |
| 365               | 0                                    | NR                             | 495               | 376                                  | NR                             | 625               | 851                                  | NR                             | 755               | 22                                   | NR                             | 885               | 1                                    | NR                             |
| 370               | 0                                    | NR                             | 500               | 438                                  | NR                             | 630               | 797                                  | NR                             | 760               | 19                                   | NR                             | 890               | 0                                    | NR                             |
| 375               | 0                                    | NR                             | 505               | 491                                  | NR                             | 635               | 735                                  | NR                             | 765               | 16                                   | NR                             | 895               | 0                                    | NR                             |
| 380               | 0                                    | NR                             | 510               | 533                                  | NR                             | 640               | 672                                  | NR                             | 770               | 14                                   | NR                             | 900               | 0                                    | NR                             |
| 385               | 0                                    | NR                             | 515               | 566                                  | NR                             | 645               | 607                                  | NR                             | 775               | 12                                   | NR                             | 905               | 0                                    | NR                             |
| 390               | 0                                    | NR                             | 520               | 592                                  | NR                             | 650               | 546                                  | NR                             | 780               | 10                                   | NR                             | 910               | 0                                    | NR                             |
| 395               | 1                                    | NR                             | 525               | 608                                  | NR                             | 655               | 487                                  | NR                             | 785               | 9                                    | NR                             | 915               | 0                                    | NR                             |
| 400               | 3                                    | NR                             | 530               | 625                                  | NR                             | 660               | 429                                  | NR                             | 790               | 7                                    | NR                             | 920               | 0                                    | NR                             |
| 405               | 6                                    | NR                             | 535               | 642                                  | NR                             | 665               | 378                                  | NR                             | 795               | 6                                    | NR                             | 925               | 0                                    | NR                             |
| 410               | 12                                   | NR                             | 540               | 657                                  | NR                             | 670               | 329                                  | NR                             | 800               | 5                                    | NR                             | 930               | 0                                    | NR                             |
| 415               | 22                                   | NR                             | 545               | 677                                  | NR                             | 675               | 286                                  | NR                             | 805               | 5                                    | NR                             | 935               | 0                                    | NR                             |
| 420               | 43                                   | NR                             | 550               | 701                                  | NR                             | 680               | 248                                  | NR                             | 810               | 4                                    | NR                             | 940               | 0                                    | NR                             |
| 425               | 80                                   | NR                             | 555               | 728                                  | NR                             | 685               | 213                                  | NR                             | 815               | 3                                    | NR                             | 945               | 0                                    | NR                             |
| 430               | 140                                  | NR                             | 560               | 757                                  | NR                             | 690               | 184                                  | NR                             | 820               | 3                                    | NR                             | 950               | 0                                    | NR                             |
| 435               | 243                                  | NR                             | 565               | 793                                  | NR                             | 695               | 156                                  | NR                             | 825               | 3                                    | NR                             | 955               | 0                                    | NR                             |
| 440               | 412                                  | NR                             | 570               | 831                                  | NR                             | 700               | 134                                  | NR                             | 830               | 2                                    | NR                             | 960               | 0                                    | NR                             |
| 445               | 610                                  | NR                             | 575               | 872                                  | NR                             | 705               | 114                                  | NR                             | 835               | 2                                    | NR                             | 965               | 0                                    | NR                             |
| 450               | 597                                  | NR                             | 580               | 911                                  | NR                             | 710               | 97                                   | NR                             | 840               | 2                                    | NR                             | 970               | 0                                    | NR                             |
| 455               | 412                                  | NR                             | 585               | 944                                  | NR                             | 715               | 83                                   | NR                             | 845               | 1                                    | NR                             | 975               | 0                                    | NR                             |
| 460               | 330                                  | NR                             | 590               | 974                                  | NR                             | 720               | 70                                   | NR                             | 850               | 1                                    | NR                             | 980               | 0                                    | NR                             |
| 465               | 274                                  | NR                             | 595               | 992                                  | NR                             | 725               | 60                                   | NR                             | 855               | 1                                    | NR                             | 985               | 0                                    | NR                             |
| 470               | 211                                  | NR                             | 600               | 999                                  | NR                             | 730               | 51                                   | NR                             | 860               | 1                                    | NR                             | 990               | 0                                    | NR                             |
| 475               | 200                                  | NR                             | 605               | 992                                  | NR                             | 735               | 43                                   | NR                             | 865               | 1                                    | NR                             | 995               | 0                                    | NR                             |
| 480               | 220                                  | NR                             | 610               | 975                                  | NR                             | 740               | 36                                   | NR                             | 870               | 1                                    | NR                             | 1000              | 0                                    | NR                             |
| 485               | 255                                  | NR                             | 615               | 944                                  | NR                             | 745               | 31                                   | NR                             | 875               | 1                                    | NR                             |                   |                                      |                                |

REPORT NUMBER: SP1-2407-184-10

### Scotopic Flux vs. Wavelength



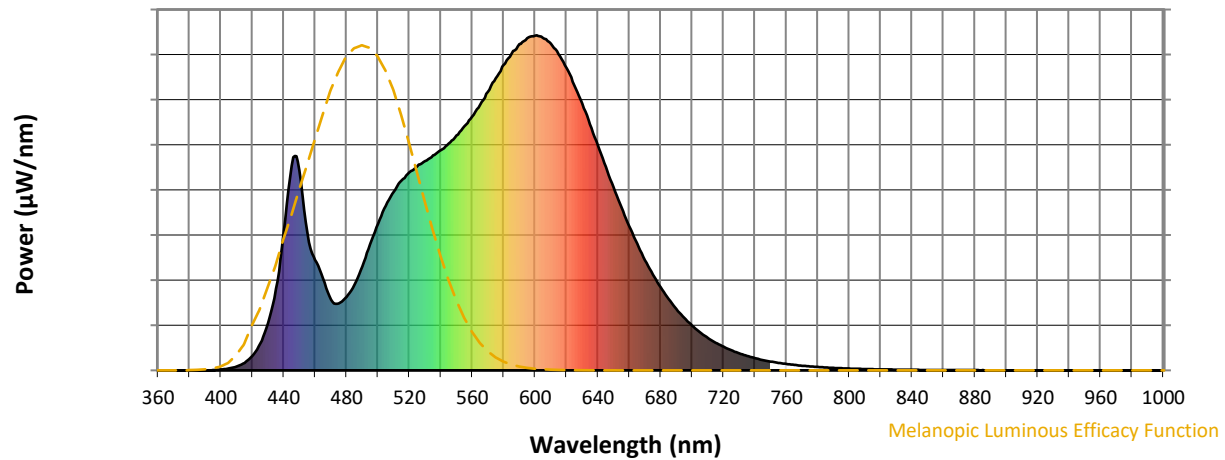
Scotopic Lumens: NR

S/P: 1.48

| 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       | 311                         | NR               | 620       | 903                         | NR               | 750       | 26                          | NR               | 880       | 1                           | NR               |
| 365       | 0                           | NR               | 495       | 376                         | NR               | 625       | 851                         | NR               | 755       | 22                          | NR               | 885       | 1                           | NR               |
| 370       | 0                           | NR               | 500       | 438                         | NR               | 630       | 797                         | NR               | 760       | 19                          | NR               | 890       | 0                           | NR               |
| 375       | 0                           | NR               | 505       | 491                         | NR               | 635       | 735                         | NR               | 765       | 16                          | NR               | 895       | 0                           | NR               |
| 380       | 0                           | NR               | 510       | 533                         | NR               | 640       | 672                         | NR               | 770       | 14                          | NR               | 900       | 0                           | NR               |
| 385       | 0                           | NR               | 515       | 566                         | NR               | 645       | 607                         | NR               | 775       | 12                          | NR               | 905       | 0                           | NR               |
| 390       | 0                           | NR               | 520       | 592                         | NR               | 650       | 546                         | NR               | 780       | 10                          | NR               | 910       | 0                           | NR               |
| 395       | 1                           | NR               | 525       | 608                         | NR               | 655       | 487                         | NR               | 785       | 9                           | NR               | 915       | 0                           | NR               |
| 400       | 3                           | NR               | 530       | 625                         | NR               | 660       | 429                         | NR               | 790       | 7                           | NR               | 920       | 0                           | NR               |
| 405       | 6                           | NR               | 535       | 642                         | NR               | 665       | 378                         | NR               | 795       | 6                           | NR               | 925       | 0                           | NR               |
| 410       | 12                          | NR               | 540       | 657                         | NR               | 670       | 329                         | NR               | 800       | 5                           | NR               | 930       | 0                           | NR               |
| 415       | 22                          | NR               | 545       | 677                         | NR               | 675       | 286                         | NR               | 805       | 5                           | NR               | 935       | 0                           | NR               |
| 420       | 43                          | NR               | 550       | 701                         | NR               | 680       | 248                         | NR               | 810       | 4                           | NR               | 940       | 0                           | NR               |
| 425       | 80                          | NR               | 555       | 728                         | NR               | 685       | 213                         | NR               | 815       | 3                           | NR               | 945       | 0                           | NR               |
| 430       | 140                         | NR               | 560       | 757                         | NR               | 690       | 184                         | NR               | 820       | 3                           | NR               | 950       | 0                           | NR               |
| 435       | 243                         | NR               | 565       | 793                         | NR               | 695       | 156                         | NR               | 825       | 3                           | NR               | 955       | 0                           | NR               |
| 440       | 412                         | NR               | 570       | 831                         | NR               | 700       | 134                         | NR               | 830       | 2                           | NR               | 960       | 0                           | NR               |
| 445       | 610                         | NR               | 575       | 872                         | NR               | 705       | 114                         | NR               | 835       | 2                           | NR               | 965       | 0                           | NR               |
| 450       | 597                         | NR               | 580       | 911                         | NR               | 710       | 97                          | NR               | 840       | 2                           | NR               | 970       | 0                           | NR               |
| 455       | 412                         | NR               | 585       | 944                         | NR               | 715       | 83                          | NR               | 845       | 1                           | NR               | 975       | 0                           | NR               |
| 460       | 330                         | NR               | 590       | 974                         | NR               | 720       | 70                          | NR               | 850       | 1                           | NR               | 980       | 0                           | NR               |
| 465       | 274                         | NR               | 595       | 992                         | NR               | 725       | 60                          | NR               | 855       | 1                           | NR               | 985       | 0                           | NR               |
| 470       | 211                         | NR               | 600       | 999                         | NR               | 730       | 51                          | NR               | 860       | 1                           | NR               | 990       | 0                           | NR               |
| 475       | 200                         | NR               | 605       | 992                         | NR               | 735       | 43                          | NR               | 865       | 1                           | NR               | 995       | 0                           | NR               |
| 480       | 220                         | NR               | 610       | 975                         | NR               | 740       | 36                          | NR               | 870       | 1                           | NR               | 1000      | 0                           | NR               |
| 485       | 255                         | NR               | 615       | 944                         | NR               | 745       | 31                          | NR               | 875       | 1                           | NR               |           |                             |                  |

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### Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.88

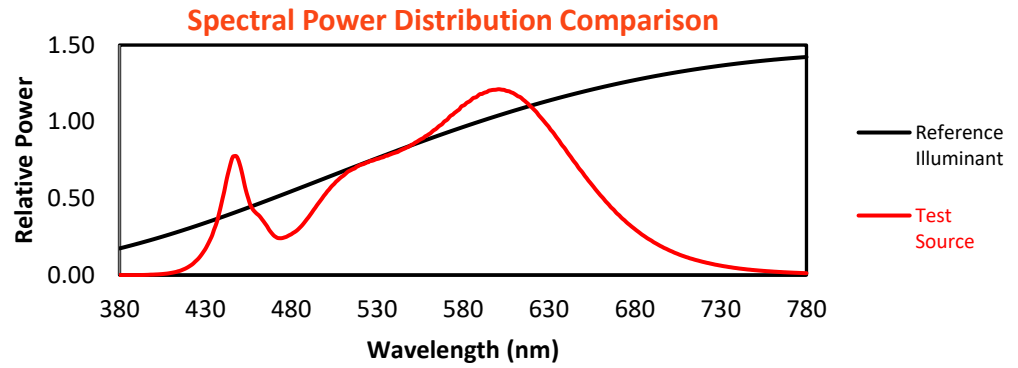
| $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | 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               | 311                                    | NR                             | 620               | 903                                    | NR                             | 750               | 26                                     | NR                             | 880               | 1                                      | NR                             |
| 365               | 0                                      | NR                             | 495               | 376                                    | NR                             | 625               | 851                                    | NR                             | 755               | 22                                     | NR                             | 885               | 1                                      | NR                             |
| 370               | 0                                      | NR                             | 500               | 438                                    | NR                             | 630               | 797                                    | NR                             | 760               | 19                                     | NR                             | 890               | 0                                      | NR                             |
| 375               | 0                                      | NR                             | 505               | 491                                    | NR                             | 635               | 735                                    | NR                             | 765               | 16                                     | NR                             | 895               | 0                                      | NR                             |
| 380               | 0                                      | NR                             | 510               | 533                                    | NR                             | 640               | 672                                    | NR                             | 770               | 14                                     | NR                             | 900               | 0                                      | NR                             |
| 385               | 0                                      | NR                             | 515               | 566                                    | NR                             | 645               | 607                                    | NR                             | 775               | 12                                     | NR                             | 905               | 0                                      | NR                             |
| 390               | 0                                      | NR                             | 520               | 592                                    | NR                             | 650               | 546                                    | NR                             | 780               | 10                                     | NR                             | 910               | 0                                      | NR                             |
| 395               | 1                                      | NR                             | 525               | 608                                    | NR                             | 655               | 487                                    | NR                             | 785               | 9                                      | NR                             | 915               | 0                                      | NR                             |
| 400               | 3                                      | NR                             | 530               | 625                                    | NR                             | 660               | 429                                    | NR                             | 790               | 7                                      | NR                             | 920               | 0                                      | NR                             |
| 405               | 6                                      | NR                             | 535               | 642                                    | NR                             | 665               | 378                                    | NR                             | 795               | 6                                      | NR                             | 925               | 0                                      | NR                             |
| 410               | 12                                     | NR                             | 540               | 657                                    | NR                             | 670               | 329                                    | NR                             | 800               | 5                                      | NR                             | 930               | 0                                      | NR                             |
| 415               | 22                                     | NR                             | 545               | 677                                    | NR                             | 675               | 286                                    | NR                             | 805               | 5                                      | NR                             | 935               | 0                                      | NR                             |
| 420               | 43                                     | NR                             | 550               | 701                                    | NR                             | 680               | 248                                    | NR                             | 810               | 4                                      | NR                             | 940               | 0                                      | NR                             |
| 425               | 80                                     | NR                             | 555               | 728                                    | NR                             | 685               | 213                                    | NR                             | 815               | 3                                      | NR                             | 945               | 0                                      | NR                             |
| 430               | 140                                    | NR                             | 560               | 757                                    | NR                             | 690               | 184                                    | NR                             | 820               | 3                                      | NR                             | 950               | 0                                      | NR                             |
| 435               | 243                                    | NR                             | 565               | 793                                    | NR                             | 695               | 156                                    | NR                             | 825               | 3                                      | NR                             | 955               | 0                                      | NR                             |
| 440               | 412                                    | NR                             | 570               | 831                                    | NR                             | 700               | 134                                    | NR                             | 830               | 2                                      | NR                             | 960               | 0                                      | NR                             |
| 445               | 610                                    | NR                             | 575               | 872                                    | NR                             | 705               | 114                                    | NR                             | 835               | 2                                      | NR                             | 965               | 0                                      | NR                             |
| 450               | 597                                    | NR                             | 580               | 911                                    | NR                             | 710               | 97                                     | NR                             | 840               | 2                                      | NR                             | 970               | 0                                      | NR                             |
| 455               | 412                                    | NR                             | 585               | 944                                    | NR                             | 715               | 83                                     | NR                             | 845               | 1                                      | NR                             | 975               | 0                                      | NR                             |
| 460               | 330                                    | NR                             | 590               | 974                                    | NR                             | 720               | 70                                     | NR                             | 850               | 1                                      | NR                             | 980               | 0                                      | NR                             |
| 465               | 274                                    | NR                             | 595               | 992                                    | NR                             | 725               | 60                                     | NR                             | 855               | 1                                      | NR                             | 985               | 0                                      | NR                             |
| 470               | 211                                    | NR                             | 600               | 999                                    | NR                             | 730               | 51                                     | NR                             | 860               | 1                                      | NR                             | 990               | 0                                      | NR                             |
| 475               | 200                                    | NR                             | 605               | 992                                    | NR                             | 735               | 43                                     | NR                             | 865               | 1                                      | NR                             | 995               | 0                                      | NR                             |
| 480               | 220                                    | NR                             | 610               | 975                                    | NR                             | 740               | 36                                     | NR                             | 870               | 1                                      | NR                             | 1000              | 0                                      | NR                             |
| 485               | 255                                    | NR                             | 615               | 944                                    | NR                             | 745               | 31                                     | NR                             | 875               | 1                                      | NR                             |                   |                                        |                                |

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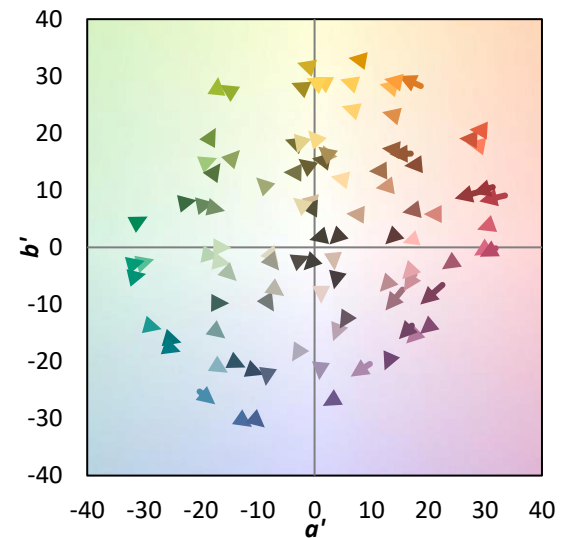
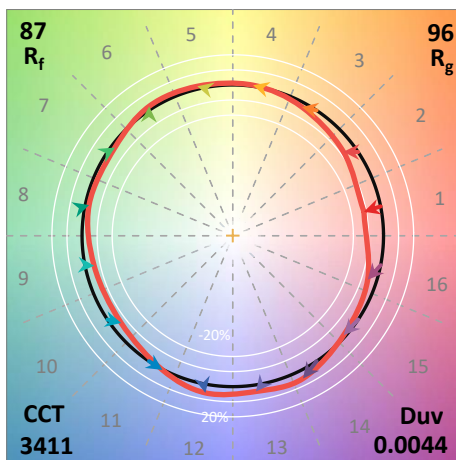
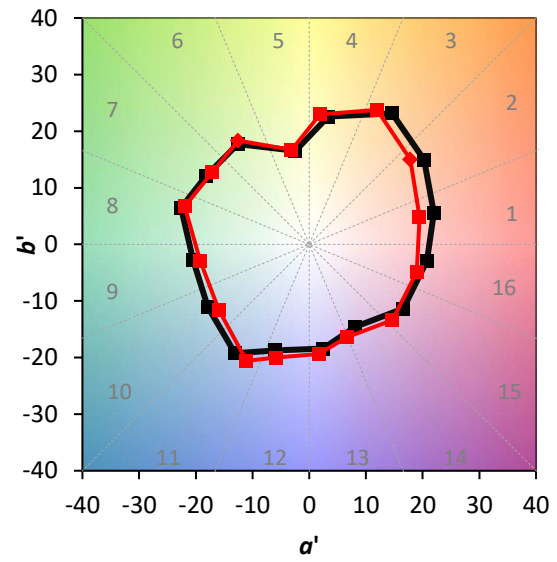
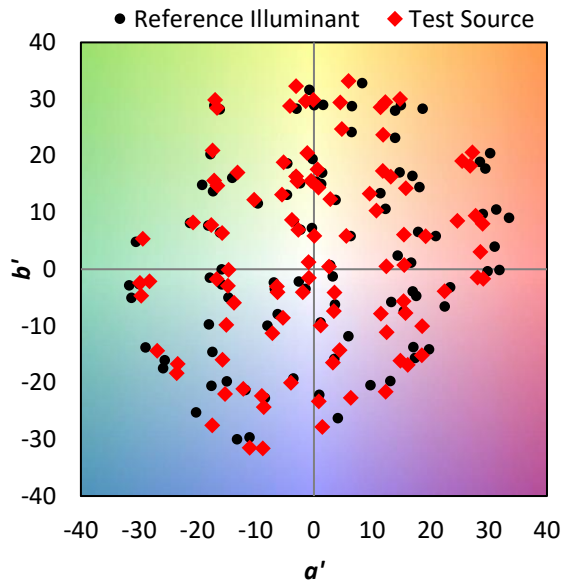
TM-30-18

### Summary

$R_f = 86.6$   
 $R_g = 95.9$   
 $CIE R_a = 83.5$   
 $R_9 = 6.3$

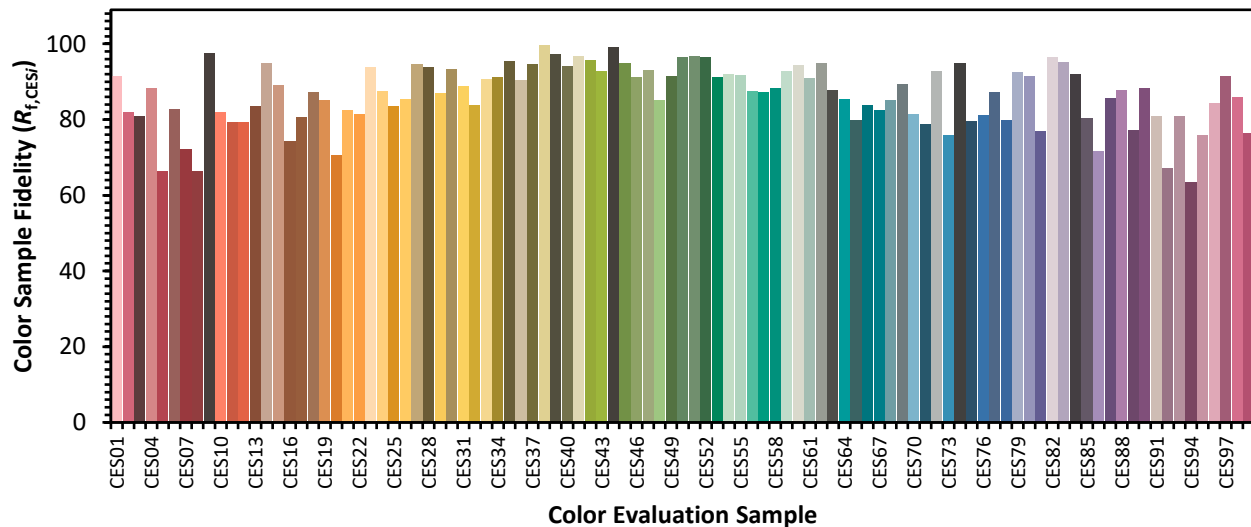


### Color Vector Graphics

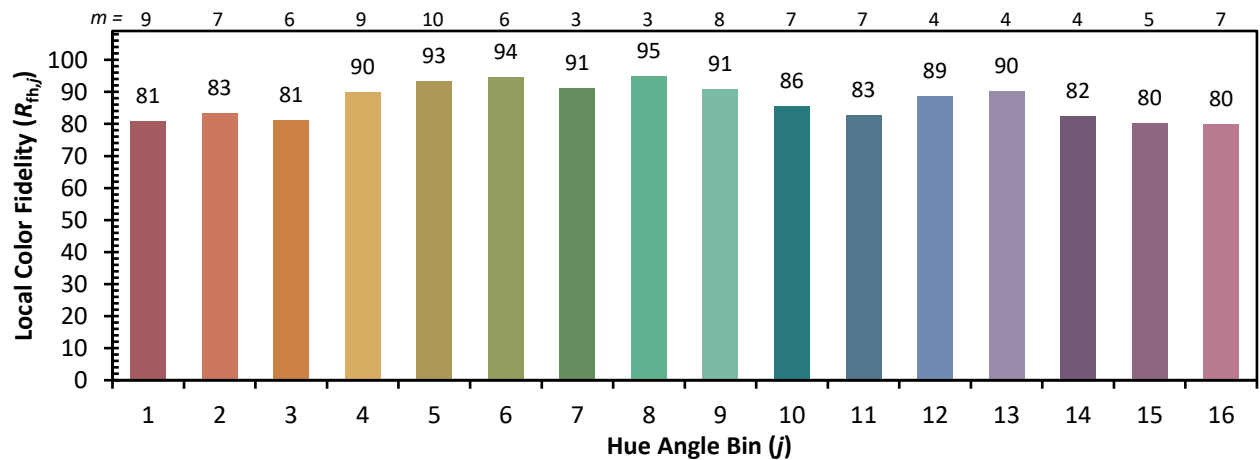
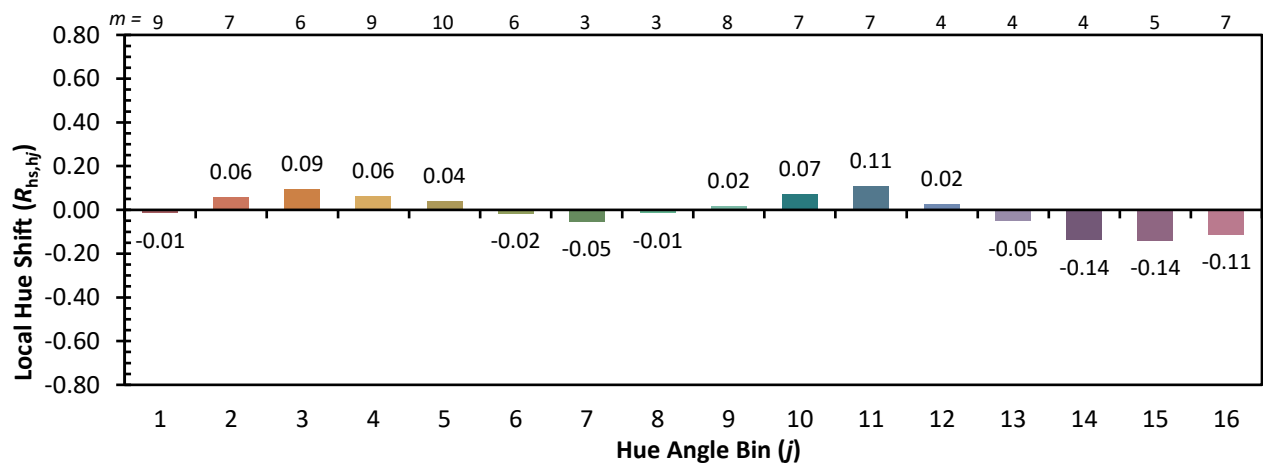
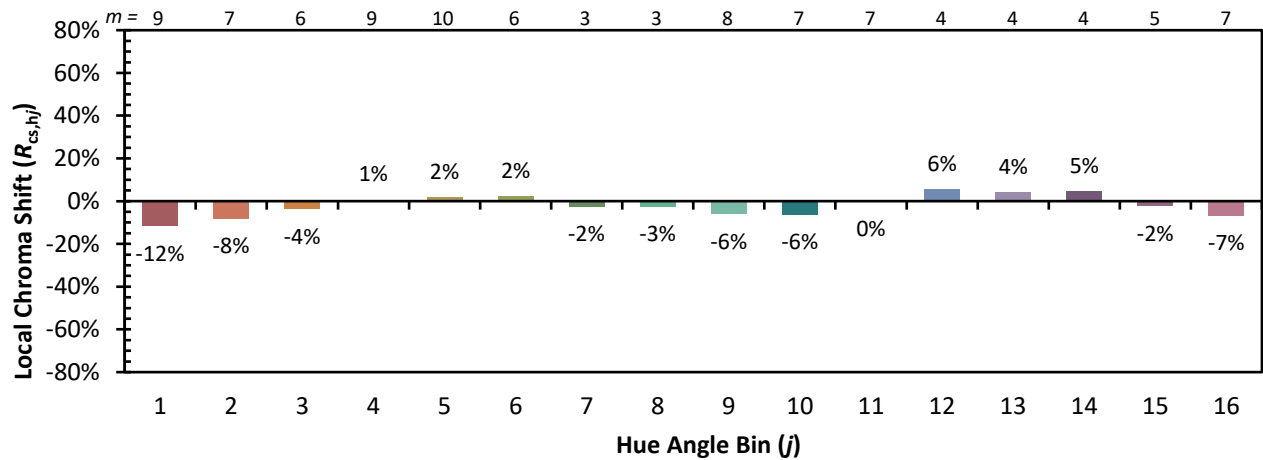


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

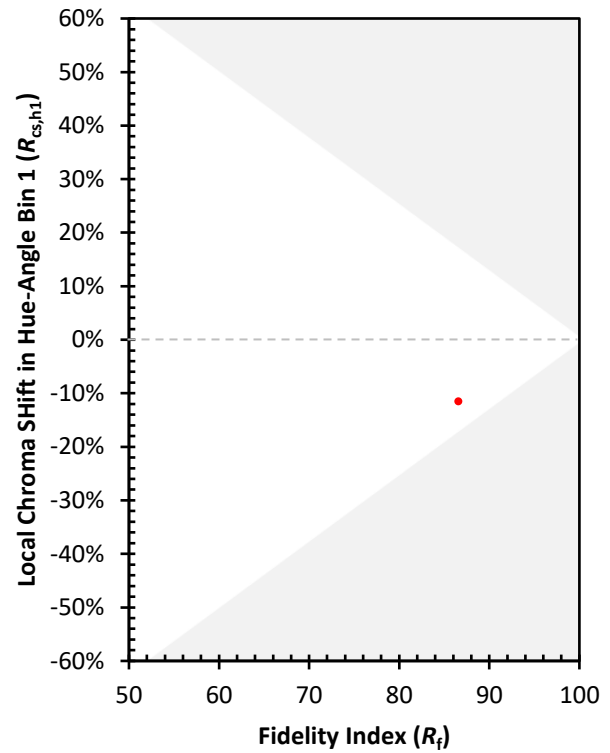
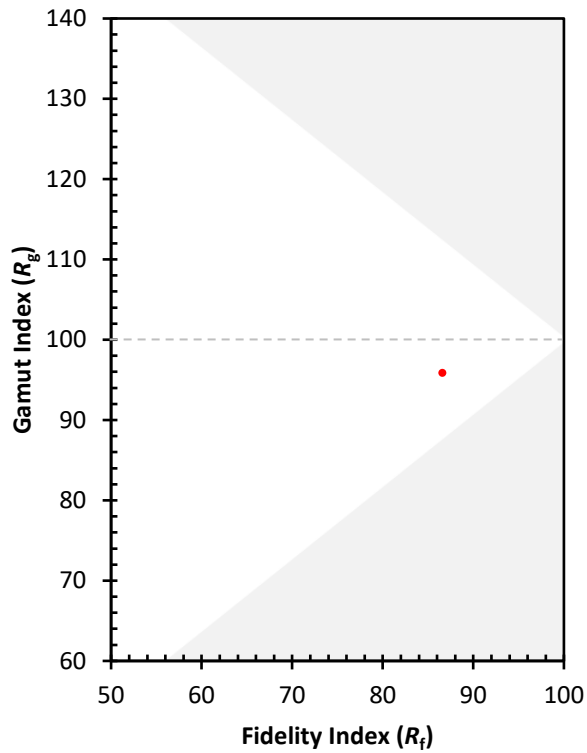
|            |             |            |            |
|------------|-------------|------------|------------|
| CES01 = 86 | CES26 = 85  | CES51 = 97 | CES76 = 81 |
| CES02 = 62 | CES27 = 95  | CES52 = 96 | CES77 = 87 |
| CES03 = 31 | CES28 = 94  | CES53 = 91 | CES78 = 80 |
| CES04 = 70 | CES29 = 87  | CES54 = 92 | CES79 = 93 |
| CES05 = 49 | CES30 = 93  | CES55 = 92 | CES80 = 91 |
| CES06 = 51 | CES31 = 89  | CES56 = 88 | CES81 = 77 |
| CES07 = 41 | CES32 = 84  | CES57 = 87 | CES82 = 96 |
| CES08 = 40 | CES33 = 91  | CES58 = 88 | CES83 = 95 |
| CES09 = 29 | CES34 = 91  | CES59 = 93 | CES84 = 92 |
| CES10 = 75 | CES35 = 95  | CES60 = 94 | CES85 = 80 |
| CES11 = 58 | CES36 = 90  | CES61 = 91 | CES86 = 72 |
| CES12 = 64 | CES37 = 95  | CES62 = 95 | CES87 = 86 |
| CES13 = 43 | CES38 = 100 | CES63 = 88 | CES88 = 88 |
| CES14 = 74 | CES39 = 97  | CES64 = 85 | CES89 = 77 |
| CES15 = 71 | CES40 = 94  | CES65 = 80 | CES90 = 88 |
| CES16 = 47 | CES41 = 97  | CES66 = 84 | CES91 = 81 |
| CES17 = 49 | CES42 = 96  | CES67 = 82 | CES92 = 67 |
| CES18 = 56 | CES43 = 93  | CES68 = 85 | CES93 = 81 |
| CES19 = 72 | CES44 = 99  | CES69 = 89 | CES94 = 63 |
| CES20 = 66 | CES45 = 95  | CES70 = 81 | CES95 = 76 |
| CES21 = 86 | CES46 = 91  | CES71 = 79 | CES96 = 84 |
| CES22 = 78 | CES47 = 93  | CES72 = 93 | CES97 = 92 |
| CES23 = 91 | CES48 = 85  | CES73 = 76 | CES98 = 86 |
| CES24 = 90 | CES49 = 92  | CES74 = 95 | CES99 = 77 |
| CES25 = 72 | CES50 = 96  | CES75 = 80 |            |



### Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)