

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: P1049567

Luminaire Tested: **GALN-SA9C-727-U-LBC**

Issue Date: 07/10/2025



**Test Information**

Test Method: LM-79-08  
Report Number: P1049567  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/10/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9C-727-U-LBC  
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 9xLight Square PACKAGE  
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (126) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40873.8 lumens  
Efficiency: N/A  
Efficacy: 98.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G5

Input Watts (W): 417.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.97  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

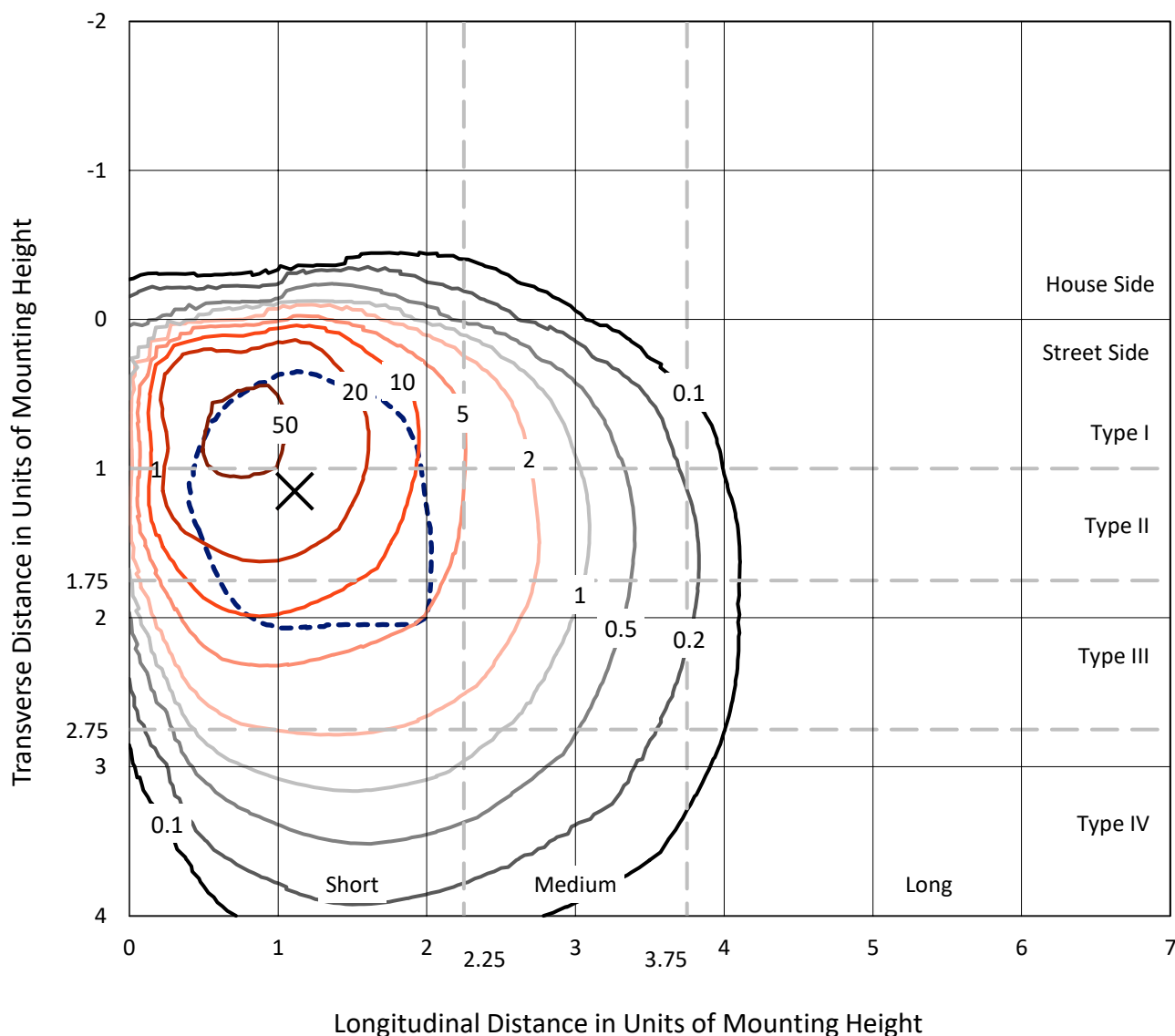
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

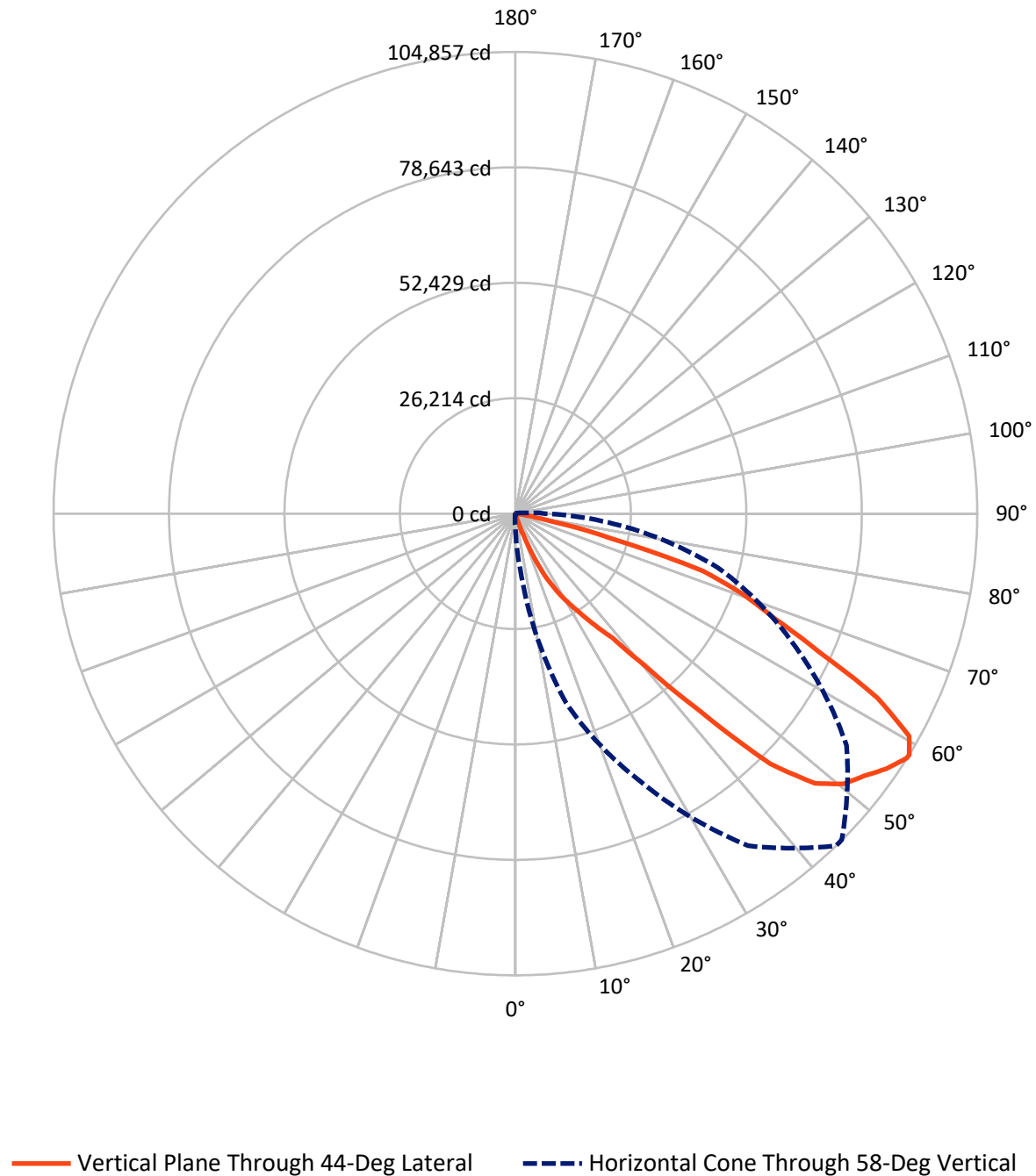


Based on 20 foot mounting height. Maximum calculated value = 71.1 fc

Type III - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 279.1    | 0.0    | 279.1   |
|                    | % Fixture | 0.7      | 0.0    | 0.7     |
| <b>Street Side</b> | Lumens    | 40594.7  | 0.0    | 40594.7 |
|                    | % Fixture | 99.3     | 0.0    | 99.3    |
| <b>Total</b>       | Lumens    | 40873.8  | 0.0    | 40873.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 16.0    | 0.0       |
| 10°-20°   | 89.6    | 0.2       |
| 20°-30°   | 968.3   | 2.4       |
| 30°-40°   | 2863.6  | 7.0       |
| 40°-50°   | 8535.1  | 20.9      |
| 50°-60°   | 13543.1 | 33.1      |
| 60°-70°   | 11296.6 | 27.6      |
| 70°-80°   | 3484.1  | 8.5       |
| 80°-90°   | 77.4    | 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°    | 40873.8 | 100.0     |
| 0°-180°   | 40873.8 | 100.0     |

**Coefficient of Utilization**



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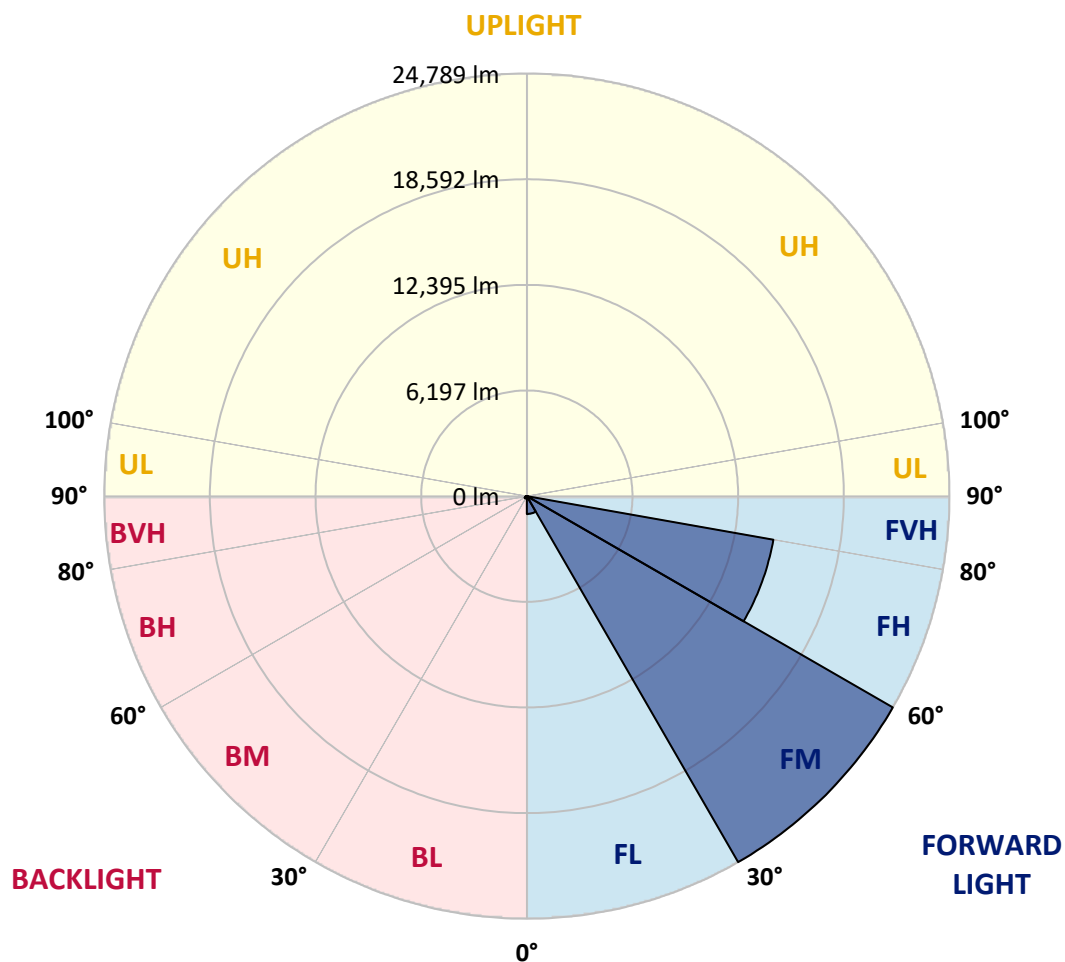
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 1046.6  | 2.6       |                         |      |        |
| FM   | (30°-60°)   | 24789.1 | 60.6      |                         |      |        |
| FH   | (60°-80°)   | 14685.4 | 35.9      |                         |      | G5     |
| FVH  | (80°-90°)   | 73.6    | 0.2       |                         |      | G1/100 |
| BL   | (0°-30°)    | 27.3    | 0.1       | B0/110                  |      |        |
| BM   | (30°-60°)   | 152.8   | 0.4       | B0/220                  |      |        |
| BH   | (60°-80°)   | 95.3    | 0.2       | B0/110                  |      | G0/110 |
| BVH  | (80°-90°)   | 3.7     | 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-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°      | 15°     | 25°     | 35°     | 44°      | 45°      | 55°     | 65°     | 75°     | 85°     |
|-------|--------|---------|---------|---------|---------|----------|----------|---------|---------|---------|---------|
| 0°    | 179.1  | 179.1   | 179.1   | 179.1   | 179.1   | 179.1    | 179.1    | 179.1   | 179.1   | 179.1   | 179.1   |
| 2.5°  | 231.6  | 231.6   | 222.3   | 210.0   | 197.6   | 185.3    | 182.2    | 176.0   | 172.9   | 169.8   | 166.7   |
| 5°    | 240.8  | 240.8   | 237.8   | 228.5   | 216.1   | 206.9    | 206.9    | 197.6   | 191.4   | 185.3   | 179.1   |
| 7.5°  | 247.0  | 250.1   | 256.3   | 253.2   | 247.0   | 237.8    | 237.8    | 231.6   | 222.3   | 206.9   | 197.6   |
| 10°   | 256.3  | 265.5   | 277.9   | 284.1   | 287.2   | 287.2    | 284.1    | 281.0   | 265.5   | 243.9   | 219.2   |
| 12.5° | 265.5  | 284.1   | 314.9   | 345.8   | 364.3   | 389.0    | 386.0    | 379.8   | 339.6   | 293.3   | 250.1   |
| 15°   | 284.1  | 311.9   | 376.7   | 466.2   | 605.2   | 691.6    | 725.6    | 694.7   | 562.0   | 395.2   | 290.2   |
| 17.5° | 305.7  | 352.0   | 546.5   | 975.7   | 1599.4  | 1895.8   | 2074.9   | 1929.8  | 1278.3  | 750.3   | 364.3   |
| 20°   | 327.3  | 429.2   | 1015.8  | 2528.8  | 4149.8  | 5119.4   | 5388.0   | 4968.1  | 3189.6  | 1429.6  | 540.3   |
| 22.5° | 364.3  | 602.1   | 2059.5  | 5227.4  | 8941.9  | 10396.2  | 10671.0  | 9327.8  | 6024.0  | 2822.1  | 812.1   |
| 25°   | 441.5  | 873.8   | 3550.8  | 8518.9  | 13344.9 | 15799.6  | 15685.4  | 13925.4 | 9772.5  | 4508.0  | 1235.1  |
| 27.5° | 552.7  | 1272.1  | 5369.5  | 12103.7 | 17562.7 | 19727.1  | 19986.5  | 17809.7 | 13026.9 | 6629.2  | 1753.8  |
| 30°   | 713.3  | 1763.1  | 7320.9  | 14975.2 | 20943.6 | 23284.1  | 23327.3  | 21076.4 | 15938.5 | 8491.1  | 2389.9  |
| 32.5° | 867.6  | 2226.2  | 9028.3  | 17751.0 | 24275.2 | 26841.1  | 27032.5  | 24262.9 | 18112.3 | 10430.1 | 2942.5  |
| 35°   | 985.0  | 2528.8  | 10757.4 | 20190.3 | 27634.6 | 31170.0  | 31157.7  | 27869.3 | 20687.4 | 12162.3 | 3708.3  |
| 37.5° | 994.2  | 2831.4  | 12322.9 | 22685.1 | 31889.4 | 35847.8  | 36240.0  | 32615.0 | 23799.7 | 14305.2 | 4646.9  |
| 40°   | 972.6  | 3171.0  | 14305.2 | 26575.6 | 39556.1 | 45629.6  | 45975.4  | 41405.6 | 30043.0 | 17973.3 | 6113.6  |
| 42.5° | 997.3  | 3760.8  | 17522.5 | 33760.6 | 52286.6 | 61009.2  | 61676.2  | 56871.7 | 41519.9 | 25457.8 | 8728.8  |
| 45°   | 1127.0 | 4869.3  | 24262.9 | 45780.8 | 70432.8 | 81066.7  | 80844.4  | 73924.9 | 54874.0 | 36851.3 | 13903.8 |
| 47.5° | 1556.2 | 7583.3  | 34254.6 | 57480.0 | 82030.1 | 91499.9  | 91691.4  | 83234.3 | 62667.3 | 45611.0 | 20872.6 |
| 50°   | 2392.9 | 11603.5 | 42650.0 | 63664.6 | 87016.6 | 96517.4  | 96338.3  | 86565.8 | 65628.4 | 49924.5 | 25142.9 |
| 52.5° | 3112.4 | 14512.0 | 46861.5 | 65835.2 | 87655.8 | 98996.8  | 98984.4  | 87442.7 | 66088.4 | 50295.0 | 25677.0 |
| 55°   | 3291.5 | 14731.3 | 46895.5 | 65952.6 | 89088.5 | 102241.9 | 102649.5 | 89601.0 | 66684.4 | 48677.1 | 23667.0 |
| 57.5° | 3220.4 | 13042.3 | 44937.9 | 66631.9 | 91638.9 | 104752.2 | 104773.8 | 91691.4 | 68197.3 | 47685.9 | 20338.5 |
| 58°   | 3158.7 | 12776.8 | 44542.7 | 67017.8 | 92077.3 | 104857.2 | 104804.7 | 91787.1 | 69429.3 | 47648.9 | 19816.7 |
| 60°   | 2812.9 | 11094.0 | 43001.9 | 68002.8 | 91425.8 | 102702.0 | 102211.1 | 89696.7 | 69247.1 | 47269.1 | 17189.0 |
| 62.5° | 2210.8 | 8654.7  | 41485.9 | 66863.4 | 84441.5 | 92268.8  | 92472.6  | 79411.7 | 63127.4 | 45055.2 | 14092.1 |
| 65°   | 1760.0 | 6450.1  | 38324.1 | 58650.2 | 69534.3 | 75771.4  | 76530.9  | 64575.5 | 52691.0 | 38151.2 | 10390.0 |
| 67.5° | 1401.8 | 4662.4  | 32148.8 | 46694.8 | 55022.2 | 63238.5  | 63791.2  | 54216.4 | 40822.1 | 29230.9 | 7382.6  |
| 70°   | 1139.3 | 3152.5  | 22191.1 | 34149.6 | 45382.5 | 54620.8  | 54654.8  | 45039.8 | 30469.1 | 19152.8 | 4631.5  |
| 72.5° | 1009.7 | 2183.0  | 12881.7 | 24905.1 | 36798.8 | 44508.7  | 43610.2  | 36548.7 | 23416.9 | 11344.1 | 2760.4  |
| 75°   | 873.8  | 1448.1  | 6317.4  | 15225.3 | 22311.5 | 22462.8  | 22805.5  | 16954.4 | 11705.3 | 5394.2  | 1655.0  |
| 77.5° | 719.4  | 1028.2  | 2488.7  | 4159.1  | 6691.0  | 8565.2   | 8883.2   | 6731.1  | 3893.5  | 1327.7  | 883.1   |
| 80°   | 494.0  | 487.9   | 670.0   | 1275.2  | 1914.4  | 2399.1   | 2238.6   | 1732.2  | 1018.9  | 509.5   | 314.9   |
| 82.5° | 213.0  | 231.6   | 302.6   | 364.3   | 296.4   | 287.2    | 274.8    | 176.0   | 135.9   | 105.0   | 64.8    |
| 85°   | 67.9   | 61.8    | 64.8    | 64.8    | 52.5    | 40.1     | 40.1     | 18.5    | 0.0     | 0.0     | 0.0     |
| 87.5° | 34.0   | 27.8    | 27.8    | 24.7    | 15.4    | 6.2      | 3.1      | 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     | 0.0     |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 179.1  | 179.1  | 179.1 | 179.1 | 179.1 | 179.1 | 179.1 | 179.1 | 179.1 | 179.1 | 179.1 |
| 2.5°  | 163.6  | 163.6  | 157.5 | 151.3 | 148.2 | 142.0 | 138.9 | 135.9 | 132.8 | 129.7 | 126.6 |
| 5°    | 172.9  | 169.8  | 160.6 | 151.3 | 142.0 | 132.8 | 126.6 | 120.4 | 114.2 | 111.2 | 108.1 |
| 7.5°  | 188.3  | 182.2  | 163.6 | 148.2 | 135.9 | 123.5 | 117.3 | 108.1 | 101.9 | 92.6  | 89.5  |
| 10°   | 206.9  | 194.5  | 169.8 | 151.3 | 132.8 | 117.3 | 108.1 | 98.8  | 89.5  | 77.2  | 74.1  |
| 12.5° | 231.6  | 210.0  | 179.1 | 148.2 | 126.6 | 108.1 | 98.8  | 86.5  | 77.2  | 67.9  | 61.8  |
| 15°   | 253.2  | 225.4  | 182.2 | 148.2 | 120.4 | 98.8  | 86.5  | 74.1  | 64.8  | 52.5  | 46.3  |
| 17.5° | 284.1  | 237.8  | 179.1 | 138.9 | 111.2 | 86.5  | 74.1  | 64.8  | 49.4  | 30.9  | 24.7  |
| 20°   | 336.6  | 247.0  | 172.9 | 129.7 | 95.7  | 71.0  | 55.6  | 43.2  | 21.6  | 6.2   | 0.0   |
| 22.5° | 419.9  | 271.7  | 166.7 | 117.3 | 83.4  | 55.6  | 37.1  | 15.4  | 0.0   | 0.0   | 0.0   |
| 25°   | 580.5  | 314.9  | 166.7 | 111.2 | 74.1  | 40.1  | 12.4  | 0.0   | 0.0   | 0.0   | 0.0   |
| 27.5° | 771.9  | 373.6  | 166.7 | 95.7  | 58.7  | 21.6  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 30°   | 966.4  | 438.4  | 166.7 | 83.4  | 46.3  | 3.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 32.5° | 1151.7 | 494.0  | 169.8 | 71.0  | 30.9  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 35°   | 1340.0 | 503.3  | 166.7 | 61.8  | 18.5  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 37.5° | 1580.9 | 484.8  | 157.5 | 55.6  | 9.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 40°   | 1945.2 | 494.0  | 148.2 | 52.5  | 3.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 42.5° | 2618.3 | 534.2  | 135.9 | 52.5  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 45°   | 4526.5 | 716.3  | 123.5 | 55.6  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 47.5° | 7487.6 | 1287.6 | 120.4 | 55.6  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 50°   | 9556.3 | 1621.0 | 126.6 | 58.7  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 52.5° | 9540.9 | 1806.3 | 132.8 | 61.8  | 12.4  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 55°   | 8481.8 | 1840.2 | 142.0 | 67.9  | 40.1  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 57.5° | 7089.3 | 1679.7 | 163.6 | 83.4  | 74.1  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 58°   | 6842.3 | 1605.6 | 169.8 | 86.5  | 80.3  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 60°   | 5607.2 | 1309.2 | 216.1 | 108.1 | 108.1 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 62.5° | 3871.9 | 1142.4 | 247.0 | 138.9 | 111.2 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 65°   | 2738.8 | 1031.3 | 268.6 | 148.2 | 89.5  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 67.5° | 2047.1 | 951.0  | 296.4 | 151.3 | 46.3  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 70°   | 1568.5 | 892.3  | 364.3 | 160.6 | 12.4  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 72.5° | 1278.3 | 824.4  | 441.5 | 166.7 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°   | 1059.1 | 744.1  | 426.1 | 182.2 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 704.0  | 577.4  | 389.0 | 182.2 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 247.0  | 228.5  | 302.6 | 160.6 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 37.1   | 30.9   | 43.2  | 55.6  | 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   | 0.0   |

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**CANDELA DISTRIBUTION (continued):**

|       | 185°  | 195°  | 205°  | 215°  | 225°  | 235°  | 245°  | 255°  | 265°  | 270°  | 275°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 179.1 | 179.1 | 179.1 | 179.1 | 179.1 | 179.1 | 179.1 | 179.1 | 179.1 | 179.1 | 179.1 |
| 2.5°  | 126.6 | 126.6 | 123.5 | 126.6 | 126.6 | 132.8 | 148.2 | 169.8 | 194.5 | 203.8 | 213.0 |
| 5°    | 105.0 | 101.9 | 98.8  | 98.8  | 98.8  | 108.1 | 120.4 | 145.1 | 172.9 | 185.3 | 191.4 |
| 7.5°  | 86.5  | 83.4  | 80.3  | 77.2  | 77.2  | 83.4  | 98.8  | 126.6 | 154.4 | 166.7 | 176.0 |
| 10°   | 71.0  | 64.8  | 61.8  | 58.7  | 58.7  | 64.8  | 80.3  | 108.1 | 138.9 | 151.3 | 163.6 |
| 12.5° | 58.7  | 49.4  | 43.2  | 40.1  | 37.1  | 46.3  | 61.8  | 86.5  | 120.4 | 135.9 | 148.2 |
| 15°   | 40.1  | 30.9  | 21.6  | 18.5  | 15.4  | 24.7  | 40.1  | 67.9  | 101.9 | 120.4 | 132.8 |
| 17.5° | 21.6  | 9.3   | 3.1   | 0.0   | 0.0   | 6.2   | 18.5  | 49.4  | 83.4  | 98.8  | 114.2 |
| 20°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 24.7  | 61.8  | 77.2  | 92.6  |
| 22.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 3.1   | 37.1  | 52.5  | 67.9  |
| 25°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 15.4  | 27.8  | 40.1  |
| 27.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 6.2   | 18.5  |
| 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   | 3.1   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 9.3   | 18.5  |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 12.4  | 24.7  | 34.0  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

REPORT NUMBER: P1049567

CATALOG NUMBER: GALN-SA9C-727-U-LBC

**CANDELA DISTRIBUTION (continued):**

|       | 285°  | 295°  | 305°  | 315°  | 316°  | 325°  | 335°  | 345°  | 355°  | 360°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0°    | 179.1 | 179.1 | 179.1 | 179.1 | 179.1 | 179.1 | 179.1 | 179.1 | 179.1 | 179.1  |
| 2.5°  | 219.2 | 216.1 | 210.0 | 203.8 | 203.8 | 203.8 | 213.0 | 222.3 | 231.6 | 231.6  |
| 5°    | 203.8 | 203.8 | 200.7 | 194.5 | 194.5 | 197.6 | 210.0 | 225.4 | 237.8 | 240.8  |
| 7.5°  | 188.3 | 194.5 | 188.3 | 185.3 | 188.3 | 191.4 | 203.8 | 222.3 | 240.8 | 247.0  |
| 10°   | 179.1 | 182.2 | 182.2 | 179.1 | 179.1 | 185.3 | 197.6 | 222.3 | 247.0 | 256.3  |
| 12.5° | 166.7 | 172.9 | 169.8 | 169.8 | 169.8 | 176.0 | 191.4 | 219.2 | 253.2 | 265.5  |
| 15°   | 154.4 | 163.6 | 163.6 | 160.6 | 160.6 | 163.6 | 185.3 | 216.1 | 262.5 | 284.1  |
| 17.5° | 142.0 | 151.3 | 154.4 | 148.2 | 148.2 | 154.4 | 176.0 | 216.1 | 268.6 | 305.7  |
| 20°   | 117.3 | 132.8 | 142.0 | 132.8 | 132.8 | 138.9 | 160.6 | 203.8 | 271.7 | 327.3  |
| 22.5° | 92.6  | 108.1 | 120.4 | 117.3 | 117.3 | 120.4 | 148.2 | 194.5 | 274.8 | 364.3  |
| 25°   | 67.9  | 83.4  | 92.6  | 98.8  | 98.8  | 108.1 | 135.9 | 188.3 | 287.2 | 441.5  |
| 27.5° | 40.1  | 58.7  | 71.0  | 77.2  | 80.3  | 92.6  | 126.6 | 182.2 | 308.8 | 552.7  |
| 30°   | 18.5  | 34.0  | 49.4  | 61.8  | 61.8  | 83.4  | 117.3 | 176.0 | 336.6 | 713.3  |
| 32.5° | 0.0   | 15.4  | 24.7  | 43.2  | 46.3  | 67.9  | 108.1 | 169.8 | 376.7 | 867.6  |
| 35°   | 0.0   | 0.0   | 12.4  | 34.0  | 34.0  | 55.6  | 98.8  | 163.6 | 438.4 | 985.0  |
| 37.5° | 0.0   | 0.0   | 0.0   | 24.7  | 27.8  | 49.4  | 95.7  | 160.6 | 450.8 | 994.2  |
| 40°   | 0.0   | 0.0   | 0.0   | 18.5  | 21.6  | 46.3  | 95.7  | 163.6 | 407.6 | 972.6  |
| 42.5° | 0.0   | 0.0   | 0.0   | 12.4  | 15.4  | 46.3  | 95.7  | 169.8 | 367.4 | 997.3  |
| 45°   | 0.0   | 0.0   | 0.0   | 9.3   | 12.4  | 49.4  | 92.6  | 166.7 | 345.8 | 1127.0 |
| 47.5° | 0.0   | 0.0   | 0.0   | 12.4  | 18.5  | 49.4  | 89.5  | 163.6 | 348.9 | 1556.2 |
| 50°   | 0.0   | 0.0   | 0.0   | 15.4  | 21.6  | 49.4  | 92.6  | 157.5 | 382.9 | 2392.9 |
| 52.5° | 0.0   | 0.0   | 0.0   | 12.4  | 18.5  | 55.6  | 101.9 | 154.4 | 416.8 | 3112.4 |
| 55°   | 0.0   | 0.0   | 0.0   | 3.1   | 9.3   | 71.0  | 111.2 | 154.4 | 469.3 | 3291.5 |
| 57.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 80.3  | 126.6 | 163.6 | 555.8 | 3220.4 |
| 58°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 80.3  | 129.7 | 163.6 | 562.0 | 3158.7 |
| 60°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 80.3  | 142.0 | 182.2 | 605.2 | 2812.9 |
| 62.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 67.9  | 169.8 | 228.5 | 629.9 | 2210.8 |
| 65°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 55.6  | 200.7 | 250.1 | 648.4 | 1760.0 |
| 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 52.5  | 206.9 | 253.2 | 657.7 | 1401.8 |
| 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 55.6  | 203.8 | 271.7 | 688.5 | 1139.3 |
| 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 61.8  | 185.3 | 299.5 | 688.5 | 1009.7 |
| 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 64.8  | 172.9 | 336.6 | 626.8 | 873.8  |
| 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 61.8  | 169.8 | 392.1 | 558.9 | 719.4  |
| 80°   | 6.2   | 9.3   | 9.3   | 6.2   | 6.2   | 52.5  | 166.7 | 398.3 | 475.5 | 494.0  |
| 82.5° | 18.5  | 24.7  | 21.6  | 15.4  | 15.4  | 46.3  | 148.2 | 333.5 | 247.0 | 213.0  |
| 85°   | 34.0  | 40.1  | 40.1  | 34.0  | 34.0  | 43.2  | 92.6  | 120.4 | 83.4  | 67.9   |
| 87.5° | 46.3  | 52.5  | 52.5  | 46.3  | 46.3  | 43.2  | 40.1  | 37.1  | 34.0  | 34.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-3

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-727-U-5WQ

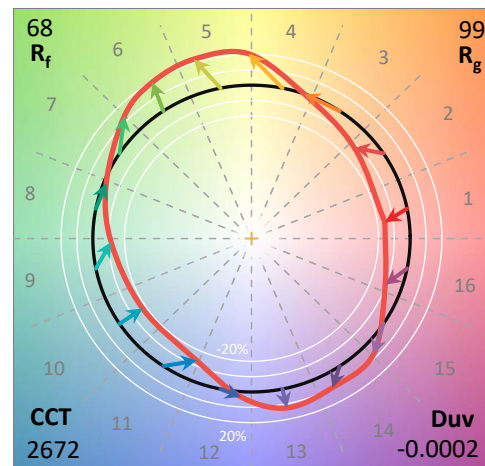
Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2407-184-3  
 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-727-U-5WQ**  
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI  
 2700K CCT 26 LEDS

### Spectral Parameters

|                           |          |           |      |      |       |
|---------------------------|----------|-----------|------|------|-------|
| CCT (K):                  | 2672     | CRI (Ra): | 71.1 |      |       |
| CIE u':                   | 0.2638   | R1:       | 68.3 | R9:  | -27.8 |
| CIE v':                   | 0.5276   | R2:       | 79.8 | R10: | 54.4  |
| Duv:                      | -0.0002  | R3:       | 91.2 | R11: | 65.8  |
| CIE x:                    | 0.4619   | R4:       | 69.4 | R12: | 45.6  |
| CIE y:                    | 0.4106   | R5:       | 66.5 | R13: | 69.8  |
| CIE z:                    | 0.1275   | R6:       | 72.6 | R14: | 94.5  |
| Peak Wavelength (nm):     | 601      | R7:       | 77.0 | R15: | 60.1  |
| Dominant Wavelength (nm): | 584      | R8:       | 44.1 |      |       |
| Purity:                   | 61.88407 |           |      |      |       |
| Rf:                       | 67.9     |           |      |      |       |
| Rg:                       | 98.6     |           |      |      |       |



### Test Conditions

Stabilization Time: 21M  
 Operation Time: 1H 21M  
 Sphere Temperature (°C): 25.2

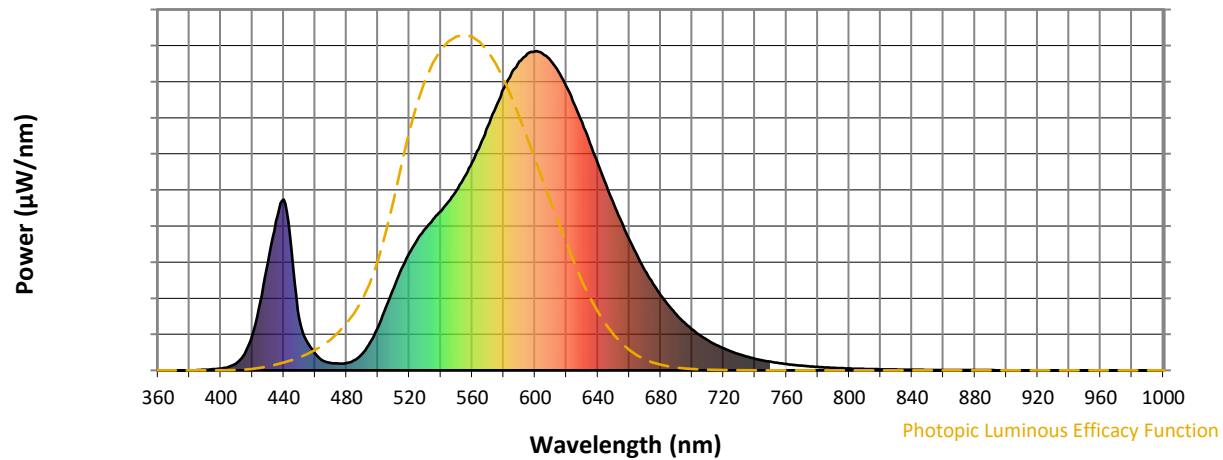
REPORT NUMBER: SP1-2407-184-3

| 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: SP1-2407-184-3

### Photopic Flux vs. Wavelength

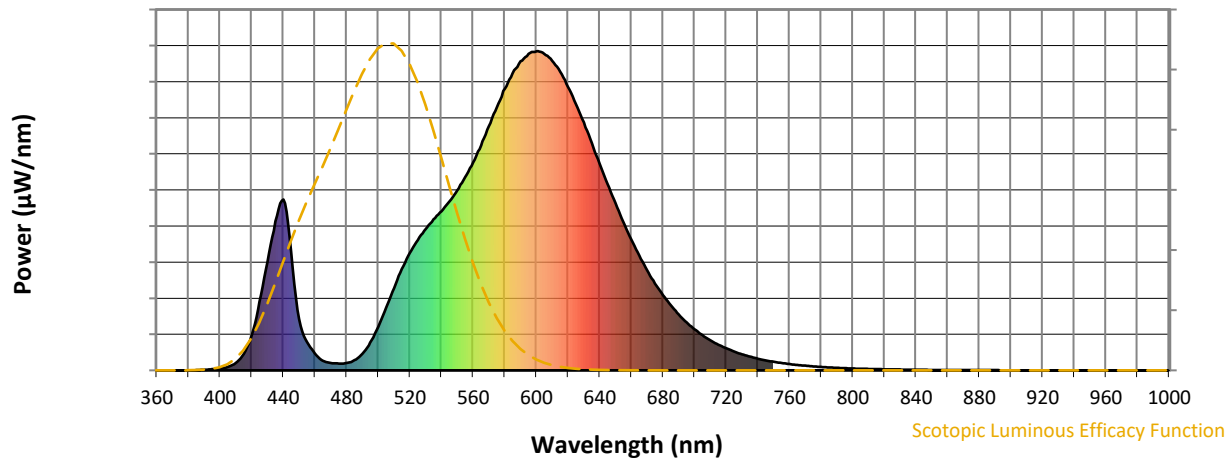


### Photopic Lumens: NR

| $\lambda$<br>(nm) | Power<br>$\text{W}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) |
|-------------------|-------------------------------|--------------------------------|-------------------|-------------------------------|--------------------------------|-------------------|-------------------------------|--------------------------------|-------------------|-------------------------------|--------------------------------|-------------------|-------------------------------|--------------------------------|
| 360               | 0                             | NR                             | 490               | 52                            | NR                             | 620               | 888                           | NR                             | 750               | 27                            | NR                             | 880               | 1                             | NR                             |
| 365               | 0                             | NR                             | 495               | 87                            | NR                             | 625               | 834                           | NR                             | 755               | 23                            | NR                             | 885               | 1                             | NR                             |
| 370               | 0                             | NR                             | 500               | 135                           | NR                             | 630               | 776                           | NR                             | 760               | 20                            | NR                             | 890               | 1                             | NR                             |
| 375               | 0                             | NR                             | 505               | 196                           | NR                             | 635               | 712                           | NR                             | 765               | 17                            | NR                             | 895               | 0                             | NR                             |
| 380               | 0                             | NR                             | 510               | 258                           | NR                             | 640               | 648                           | NR                             | 770               | 15                            | NR                             | 900               | 0                             | NR                             |
| 385               | 1                             | NR                             | 515               | 317                           | NR                             | 645               | 583                           | NR                             | 775               | 12                            | NR                             | 905               | 0                             | NR                             |
| 390               | 2                             | NR                             | 520               | 368                           | NR                             | 650               | 523                           | NR                             | 780               | 11                            | NR                             | 910               | 0                             | NR                             |
| 395               | 4                             | NR                             | 525               | 408                           | NR                             | 655               | 465                           | NR                             | 785               | 9                             | NR                             | 915               | 0                             | NR                             |
| 400               | 6                             | NR                             | 530               | 443                           | NR                             | 660               | 410                           | NR                             | 790               | 8                             | NR                             | 920               | 0                             | NR                             |
| 405               | 11                            | NR                             | 535               | 473                           | NR                             | 665               | 360                           | NR                             | 795               | 7                             | NR                             | 925               | 0                             | NR                             |
| 410               | 23                            | NR                             | 540               | 498                           | NR                             | 670               | 313                           | NR                             | 800               | 6                             | NR                             | 930               | 0                             | NR                             |
| 415               | 51                            | NR                             | 545               | 530                           | NR                             | 675               | 272                           | NR                             | 805               | 5                             | NR                             | 935               | 0                             | NR                             |
| 420               | 111                           | NR                             | 550               | 563                           | NR                             | 680               | 236                           | NR                             | 810               | 4                             | NR                             | 940               | 0                             | NR                             |
| 425               | 214                           | NR                             | 555               | 605                           | NR                             | 685               | 203                           | NR                             | 815               | 4                             | NR                             | 945               | 0                             | NR                             |
| 430               | 339                           | NR                             | 560               | 651                           | NR                             | 690               | 175                           | NR                             | 820               | 3                             | NR                             | 950               | 0                             | NR                             |
| 435               | 467                           | NR                             | 565               | 705                           | NR                             | 695               | 150                           | NR                             | 825               | 3                             | NR                             | 955               | 0                             | NR                             |
| 440               | 535                           | NR                             | 570               | 765                           | NR                             | 700               | 128                           | NR                             | 830               | 3                             | NR                             | 960               | 0                             | NR                             |
| 445               | 372                           | NR                             | 575               | 824                           | NR                             | 705               | 110                           | NR                             | 835               | 2                             | NR                             | 965               | 0                             | NR                             |
| 450               | 160                           | NR                             | 580               | 882                           | NR                             | 710               | 94                            | NR                             | 840               | 2                             | NR                             | 970               | 0                             | NR                             |
| 455               | 89                            | NR                             | 585               | 930                           | NR                             | 715               | 80                            | NR                             | 845               | 2                             | NR                             | 975               | 0                             | NR                             |
| 460               | 53                            | NR                             | 590               | 968                           | NR                             | 720               | 69                            | NR                             | 850               | 1                             | NR                             | 980               | 0                             | NR                             |
| 465               | 31                            | NR                             | 595               | 991                           | NR                             | 725               | 59                            | NR                             | 855               | 1                             | NR                             | 985               | 0                             | NR                             |
| 470               | 23                            | NR                             | 600               | 999                           | NR                             | 730               | 50                            | NR                             | 860               | 1                             | NR                             | 990               | 0                             | NR                             |
| 475               | 21                            | NR                             | 605               | 992                           | NR                             | 735               | 43                            | NR                             | 865               | 1                             | NR                             | 995               | 0                             | NR                             |
| 480               | 23                            | NR                             | 610               | 969                           | NR                             | 740               | 36                            | NR                             | 870               | 1                             | NR                             | 1000              | 0                             | NR                             |
| 485               | 32                            | NR                             | 615               | 935                           | NR                             | 745               | 31                            | NR                             | 875               | 1                             | NR                             |                   |                               |                                |

REPORT NUMBER: SP1-2407-184-3

### Scotopic Flux vs. Wavelength



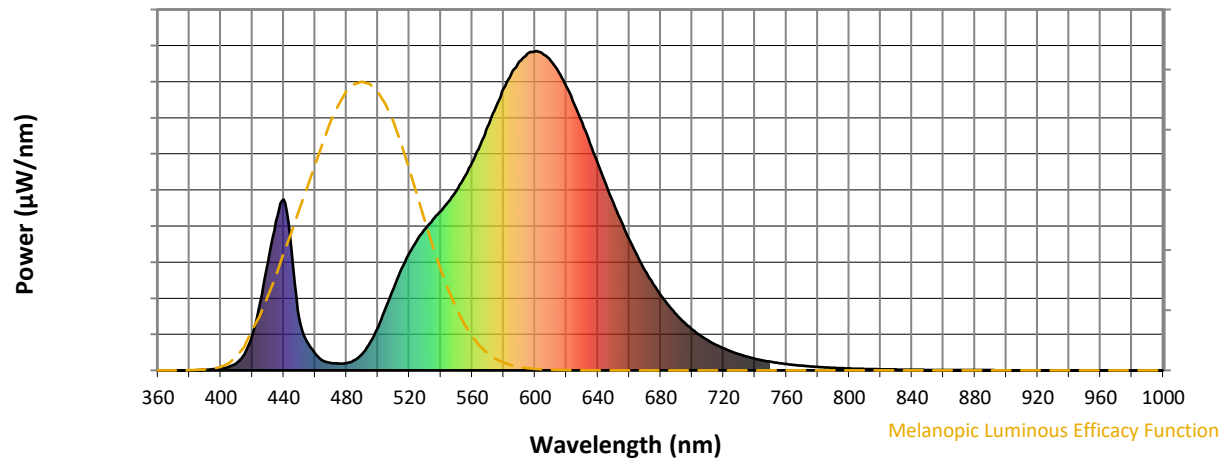
Scotopic Lumens: NR

S/P: 1.02

| 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       | 52                          | NR               | 620       | 888                         | NR               | 750       | 27                          | NR               | 880       | 1                           | NR               |
| 365       | 0                           | NR               | 495       | 87                          | NR               | 625       | 834                         | NR               | 755       | 23                          | NR               | 885       | 1                           | NR               |
| 370       | 0                           | NR               | 500       | 135                         | NR               | 630       | 776                         | NR               | 760       | 20                          | NR               | 890       | 1                           | NR               |
| 375       | 0                           | NR               | 505       | 196                         | NR               | 635       | 712                         | NR               | 765       | 17                          | NR               | 895       | 0                           | NR               |
| 380       | 0                           | NR               | 510       | 258                         | NR               | 640       | 648                         | NR               | 770       | 15                          | NR               | 900       | 0                           | NR               |
| 385       | 1                           | NR               | 515       | 317                         | NR               | 645       | 583                         | NR               | 775       | 12                          | NR               | 905       | 0                           | NR               |
| 390       | 2                           | NR               | 520       | 368                         | NR               | 650       | 523                         | NR               | 780       | 11                          | NR               | 910       | 0                           | NR               |
| 395       | 4                           | NR               | 525       | 408                         | NR               | 655       | 465                         | NR               | 785       | 9                           | NR               | 915       | 0                           | NR               |
| 400       | 6                           | NR               | 530       | 443                         | NR               | 660       | 410                         | NR               | 790       | 8                           | NR               | 920       | 0                           | NR               |
| 405       | 11                          | NR               | 535       | 473                         | NR               | 665       | 360                         | NR               | 795       | 7                           | NR               | 925       | 0                           | NR               |
| 410       | 23                          | NR               | 540       | 498                         | NR               | 670       | 313                         | NR               | 800       | 6                           | NR               | 930       | 0                           | NR               |
| 415       | 51                          | NR               | 545       | 530                         | NR               | 675       | 272                         | NR               | 805       | 5                           | NR               | 935       | 0                           | NR               |
| 420       | 111                         | NR               | 550       | 563                         | NR               | 680       | 236                         | NR               | 810       | 4                           | NR               | 940       | 0                           | NR               |
| 425       | 214                         | NR               | 555       | 605                         | NR               | 685       | 203                         | NR               | 815       | 4                           | NR               | 945       | 0                           | NR               |
| 430       | 339                         | NR               | 560       | 651                         | NR               | 690       | 175                         | NR               | 820       | 3                           | NR               | 950       | 0                           | NR               |
| 435       | 467                         | NR               | 565       | 705                         | NR               | 695       | 150                         | NR               | 825       | 3                           | NR               | 955       | 0                           | NR               |
| 440       | 535                         | NR               | 570       | 765                         | NR               | 700       | 128                         | NR               | 830       | 3                           | NR               | 960       | 0                           | NR               |
| 445       | 372                         | NR               | 575       | 824                         | NR               | 705       | 110                         | NR               | 835       | 2                           | NR               | 965       | 0                           | NR               |
| 450       | 160                         | NR               | 580       | 882                         | NR               | 710       | 94                          | NR               | 840       | 2                           | NR               | 970       | 0                           | NR               |
| 455       | 89                          | NR               | 585       | 930                         | NR               | 715       | 80                          | NR               | 845       | 2                           | NR               | 975       | 0                           | NR               |
| 460       | 53                          | NR               | 590       | 968                         | NR               | 720       | 69                          | NR               | 850       | 1                           | NR               | 980       | 0                           | NR               |
| 465       | 31                          | NR               | 595       | 991                         | NR               | 725       | 59                          | NR               | 855       | 1                           | NR               | 985       | 0                           | NR               |
| 470       | 23                          | NR               | 600       | 999                         | NR               | 730       | 50                          | NR               | 860       | 1                           | NR               | 990       | 0                           | NR               |
| 475       | 21                          | NR               | 605       | 992                         | NR               | 735       | 43                          | NR               | 865       | 1                           | NR               | 995       | 0                           | NR               |
| 480       | 23                          | NR               | 610       | 969                         | NR               | 740       | 36                          | NR               | 870       | 1                           | NR               | 1000      | 0                           | NR               |
| 485       | 32                          | NR               | 615       | 935                         | NR               | 745       | 31                          | NR               | 875       | 1                           | NR               |           |                             |                  |

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### Melanopic Flux vs. Wavelength


**Melanopic Lumens: NR**
**M/P: 1.71**

| $\lambda$<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               | 52                                   | NR                             | 620               | 888                                  | NR                             | 750               | 27                                   | NR                             | 880               | 1                                    | NR                             |
| 365               | 0                                    | NR                             | 495               | 87                                   | NR                             | 625               | 834                                  | NR                             | 755               | 23                                   | NR                             | 885               | 1                                    | NR                             |
| 370               | 0                                    | NR                             | 500               | 135                                  | NR                             | 630               | 776                                  | NR                             | 760               | 20                                   | NR                             | 890               | 1                                    | NR                             |
| 375               | 0                                    | NR                             | 505               | 196                                  | NR                             | 635               | 712                                  | NR                             | 765               | 17                                   | NR                             | 895               | 0                                    | NR                             |
| 380               | 0                                    | NR                             | 510               | 258                                  | NR                             | 640               | 648                                  | NR                             | 770               | 15                                   | NR                             | 900               | 0                                    | NR                             |
| 385               | 1                                    | NR                             | 515               | 317                                  | NR                             | 645               | 583                                  | NR                             | 775               | 12                                   | NR                             | 905               | 0                                    | NR                             |
| 390               | 2                                    | NR                             | 520               | 368                                  | NR                             | 650               | 523                                  | NR                             | 780               | 11                                   | NR                             | 910               | 0                                    | NR                             |
| 395               | 4                                    | NR                             | 525               | 408                                  | NR                             | 655               | 465                                  | NR                             | 785               | 9                                    | NR                             | 915               | 0                                    | NR                             |
| 400               | 6                                    | NR                             | 530               | 443                                  | NR                             | 660               | 410                                  | NR                             | 790               | 8                                    | NR                             | 920               | 0                                    | NR                             |
| 405               | 11                                   | NR                             | 535               | 473                                  | NR                             | 665               | 360                                  | NR                             | 795               | 7                                    | NR                             | 925               | 0                                    | NR                             |
| 410               | 23                                   | NR                             | 540               | 498                                  | NR                             | 670               | 313                                  | NR                             | 800               | 6                                    | NR                             | 930               | 0                                    | NR                             |
| 415               | 51                                   | NR                             | 545               | 530                                  | NR                             | 675               | 272                                  | NR                             | 805               | 5                                    | NR                             | 935               | 0                                    | NR                             |
| 420               | 111                                  | NR                             | 550               | 563                                  | NR                             | 680               | 236                                  | NR                             | 810               | 4                                    | NR                             | 940               | 0                                    | NR                             |
| 425               | 214                                  | NR                             | 555               | 605                                  | NR                             | 685               | 203                                  | NR                             | 815               | 4                                    | NR                             | 945               | 0                                    | NR                             |
| 430               | 339                                  | NR                             | 560               | 651                                  | NR                             | 690               | 175                                  | NR                             | 820               | 3                                    | NR                             | 950               | 0                                    | NR                             |
| 435               | 467                                  | NR                             | 565               | 705                                  | NR                             | 695               | 150                                  | NR                             | 825               | 3                                    | NR                             | 955               | 0                                    | NR                             |
| 440               | 535                                  | NR                             | 570               | 765                                  | NR                             | 700               | 128                                  | NR                             | 830               | 3                                    | NR                             | 960               | 0                                    | NR                             |
| 445               | 372                                  | NR                             | 575               | 824                                  | NR                             | 705               | 110                                  | NR                             | 835               | 2                                    | NR                             | 965               | 0                                    | NR                             |
| 450               | 160                                  | NR                             | 580               | 882                                  | NR                             | 710               | 94                                   | NR                             | 840               | 2                                    | NR                             | 970               | 0                                    | NR                             |
| 455               | 89                                   | NR                             | 585               | 930                                  | NR                             | 715               | 80                                   | NR                             | 845               | 2                                    | NR                             | 975               | 0                                    | NR                             |
| 460               | 53                                   | NR                             | 590               | 968                                  | NR                             | 720               | 69                                   | NR                             | 850               | 1                                    | NR                             | 980               | 0                                    | NR                             |
| 465               | 31                                   | NR                             | 595               | 991                                  | NR                             | 725               | 59                                   | NR                             | 855               | 1                                    | NR                             | 985               | 0                                    | NR                             |
| 470               | 23                                   | NR                             | 600               | 999                                  | NR                             | 730               | 50                                   | NR                             | 860               | 1                                    | NR                             | 990               | 0                                    | NR                             |
| 475               | 21                                   | NR                             | 605               | 992                                  | NR                             | 735               | 43                                   | NR                             | 865               | 1                                    | NR                             | 995               | 0                                    | NR                             |
| 480               | 23                                   | NR                             | 610               | 969                                  | NR                             | 740               | 36                                   | NR                             | 870               | 1                                    | NR                             | 1000              | 0                                    | NR                             |
| 485               | 32                                   | NR                             | 615               | 935                                  | NR                             | 745               | 31                                   | NR                             | 875               | 1                                    | NR                             |                   |                                      |                                |

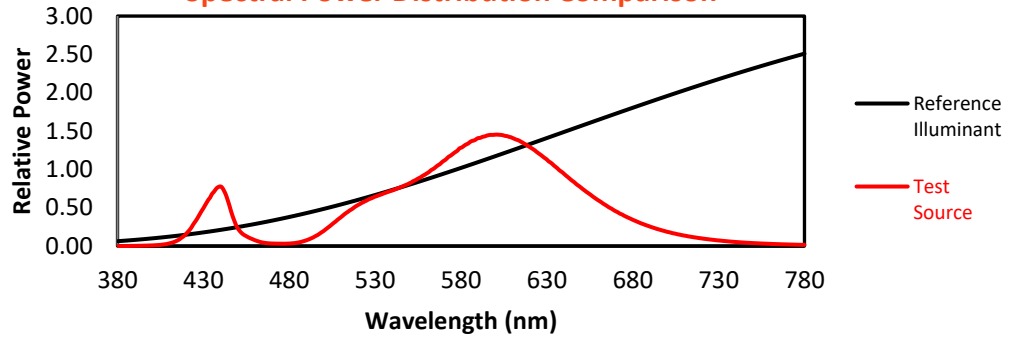
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TM-30-18

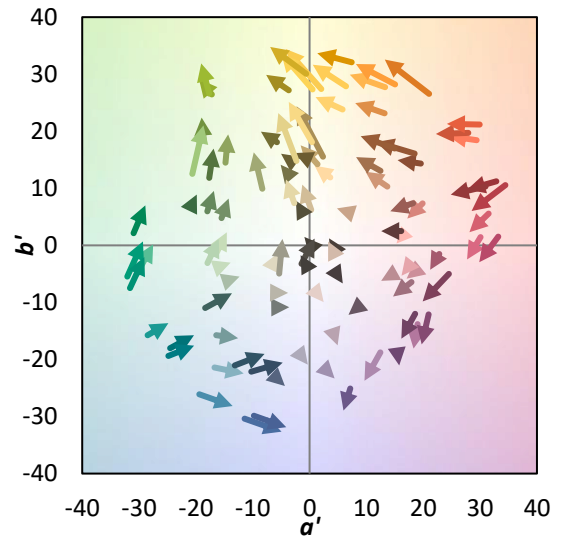
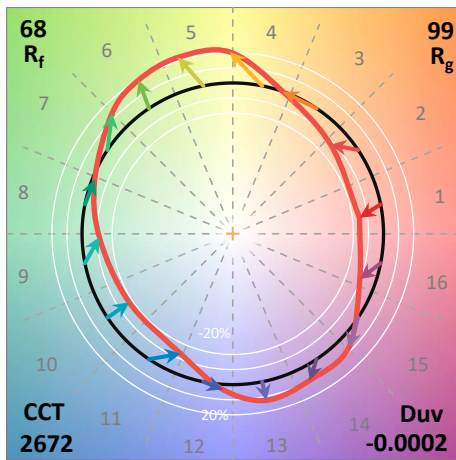
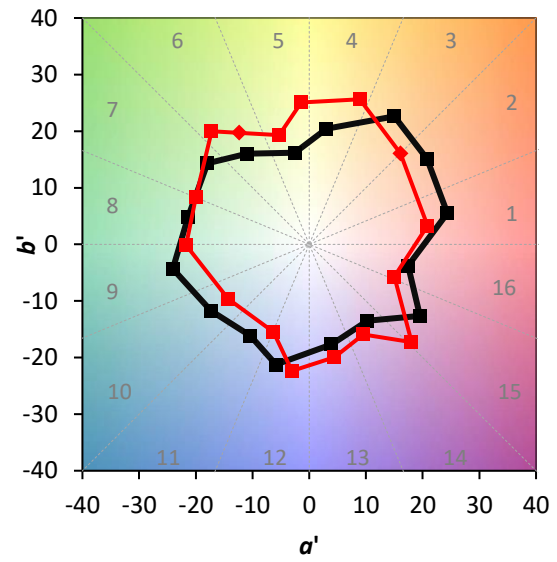
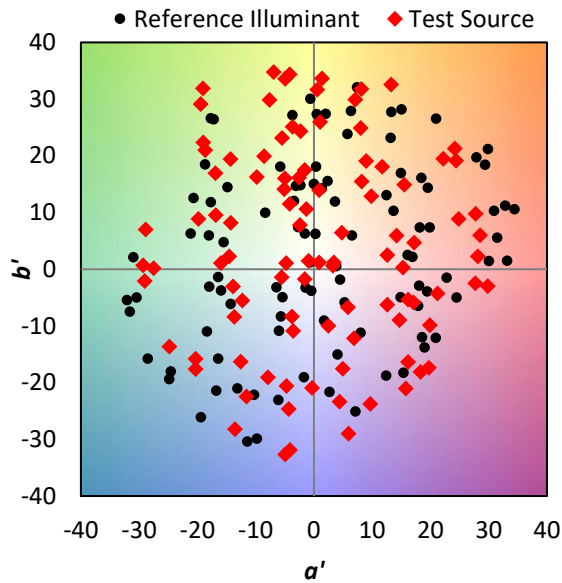
### Summary

$R_f = 67.9$   
 $R_g = 98.6$   
 $CIE R_a = 71.1$   
 $R_g = -27.8$

### Spectral Power Distribution Comparison

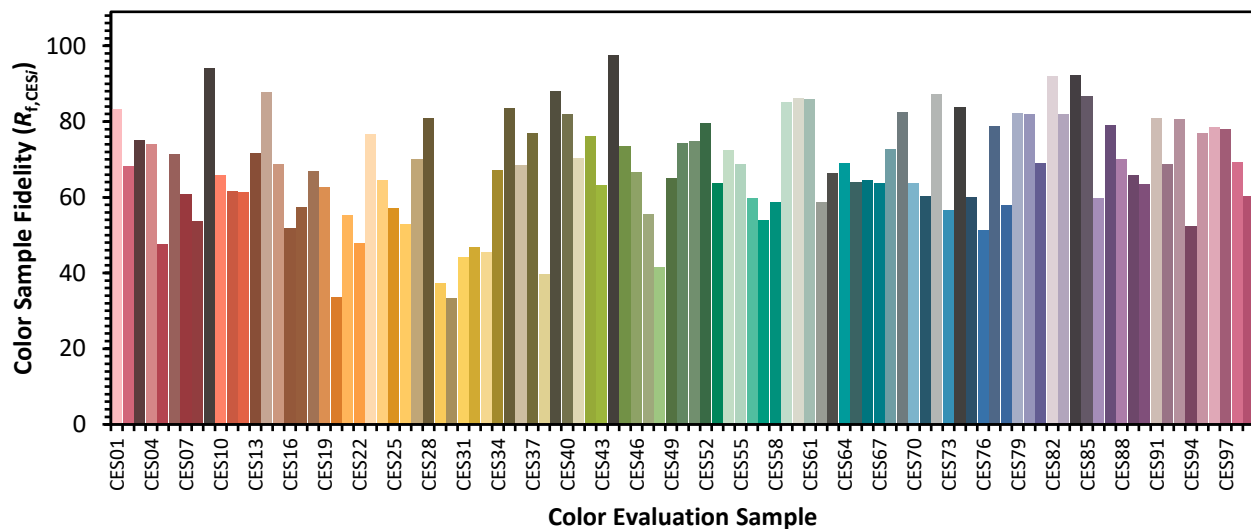


### Color Vector Graphics

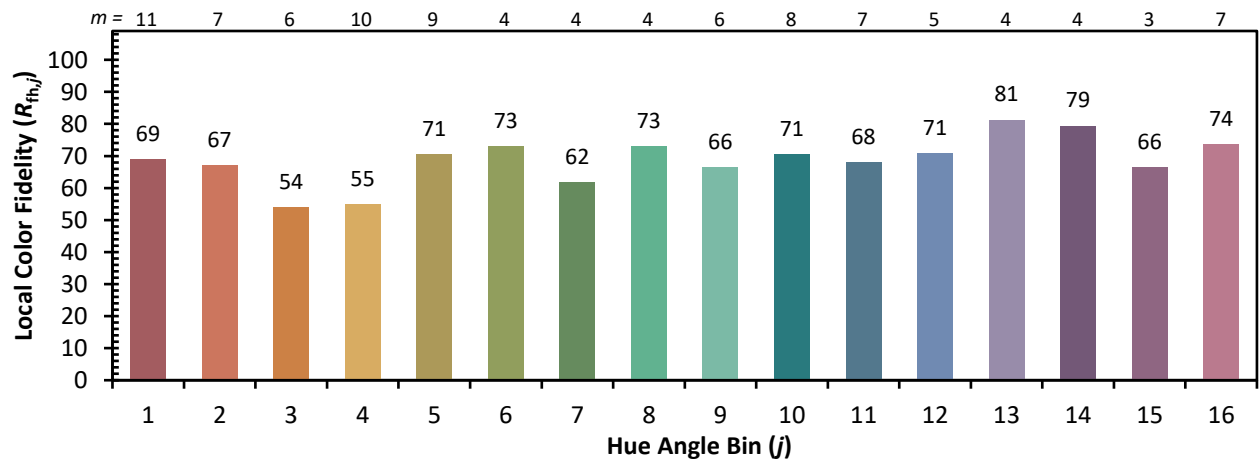
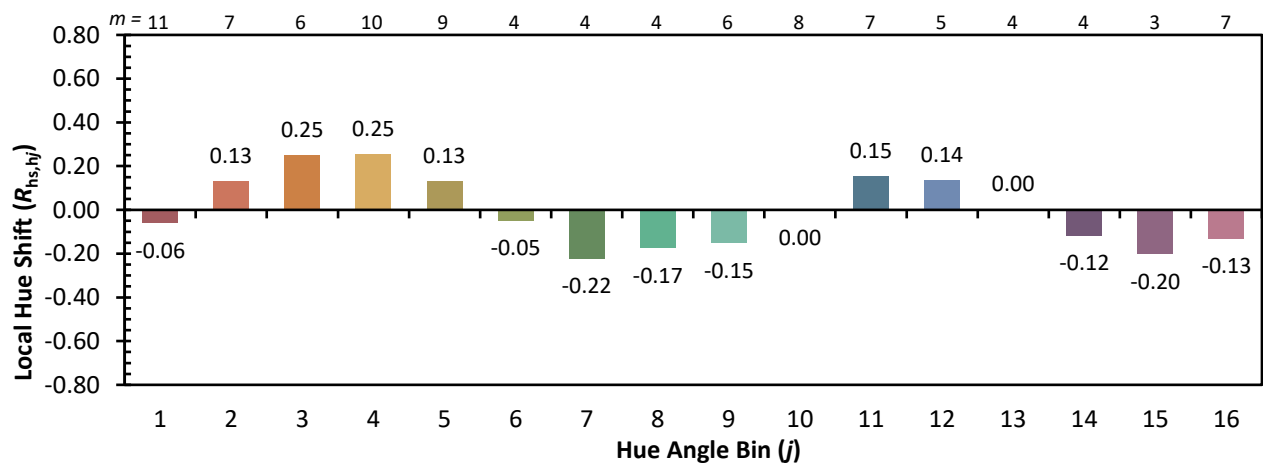
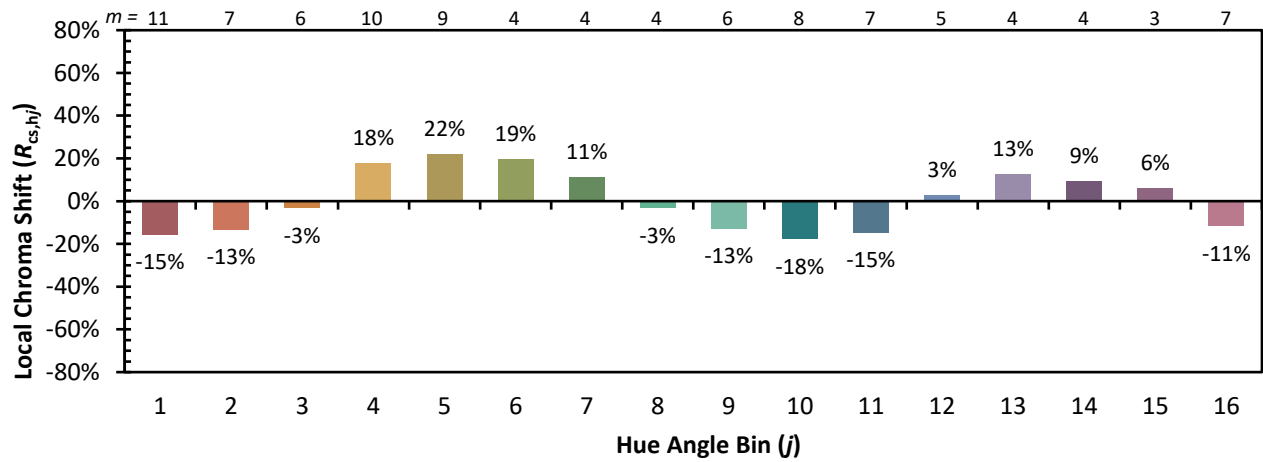


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

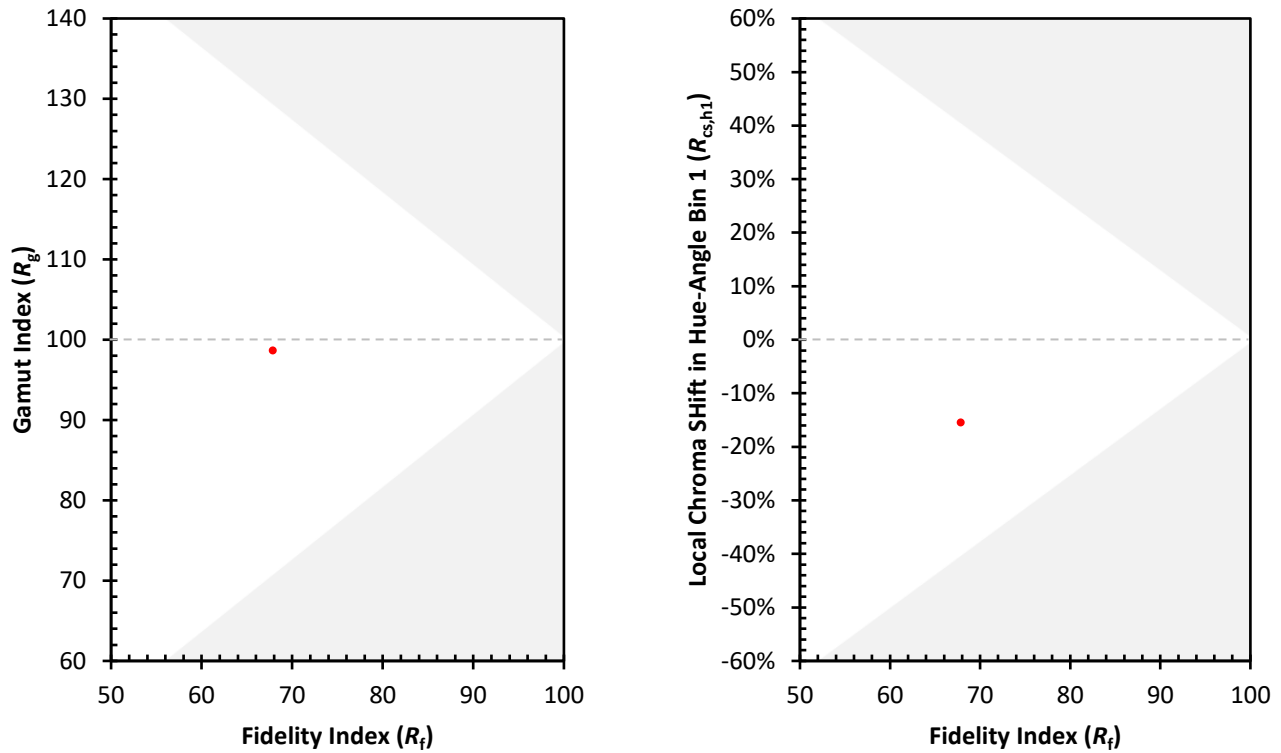
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 53 | CES51 = 75 | CES76 = 51 |
| CES02 = 63 | CES27 = 70 | CES52 = 80 | CES77 = 79 |
| CES03 = 31 | CES28 = 81 | CES53 = 64 | CES78 = 58 |
| CES04 = 71 | CES29 = 37 | CES54 = 73 | CES79 = 82 |
| CES05 = 50 | CES30 = 33 | CES55 = 69 | CES80 = 82 |
| CES06 = 52 | CES31 = 44 | CES56 = 60 | CES81 = 69 |
| CES07 = 42 | CES32 = 47 | CES57 = 54 | CES82 = 92 |
| CES08 = 41 | CES33 = 45 | CES58 = 59 | CES83 = 82 |
| CES09 = 29 | CES34 = 67 | CES59 = 85 | CES84 = 92 |
| CES10 = 77 | CES35 = 84 | CES60 = 86 | CES85 = 87 |
| CES11 = 60 | CES36 = 68 | CES61 = 86 | CES86 = 60 |
| CES12 = 66 | CES37 = 77 | CES62 = 59 | CES87 = 79 |
| CES13 = 44 | CES38 = 40 | CES63 = 66 | CES88 = 70 |
| CES14 = 74 | CES39 = 88 | CES64 = 69 | CES89 = 66 |
| CES15 = 72 | CES40 = 82 | CES65 = 64 | CES90 = 64 |
| CES16 = 48 | CES41 = 70 | CES66 = 65 | CES91 = 81 |
| CES17 = 51 | CES42 = 76 | CES67 = 64 | CES92 = 69 |
| CES18 = 57 | CES43 = 63 | CES68 = 73 | CES93 = 81 |
| CES19 = 73 | CES44 = 97 | CES69 = 83 | CES94 = 53 |
| CES20 = 67 | CES45 = 74 | CES70 = 64 | CES95 = 77 |
| CES21 = 88 | CES46 = 67 | CES71 = 60 | CES96 = 79 |
| CES22 = 80 | CES47 = 55 | CES72 = 87 | CES97 = 78 |
| CES23 = 92 | CES48 = 42 | CES73 = 57 | CES98 = 69 |
| CES24 = 92 | CES49 = 65 | CES74 = 84 | CES99 = 60 |
| CES25 = 73 | CES50 = 74 | CES75 = 60 |            |



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)