

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



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

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P1066894

Luminaire Tested: **NVN-SA3B-835-U-LBC**

Issue Date: 08/07/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1066894  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 08/07/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SA3B-835-U-LBC  
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 3xLight Square PACKAGE  
80CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (42) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10155.4 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G2

Input Watts (W): 106.2  
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



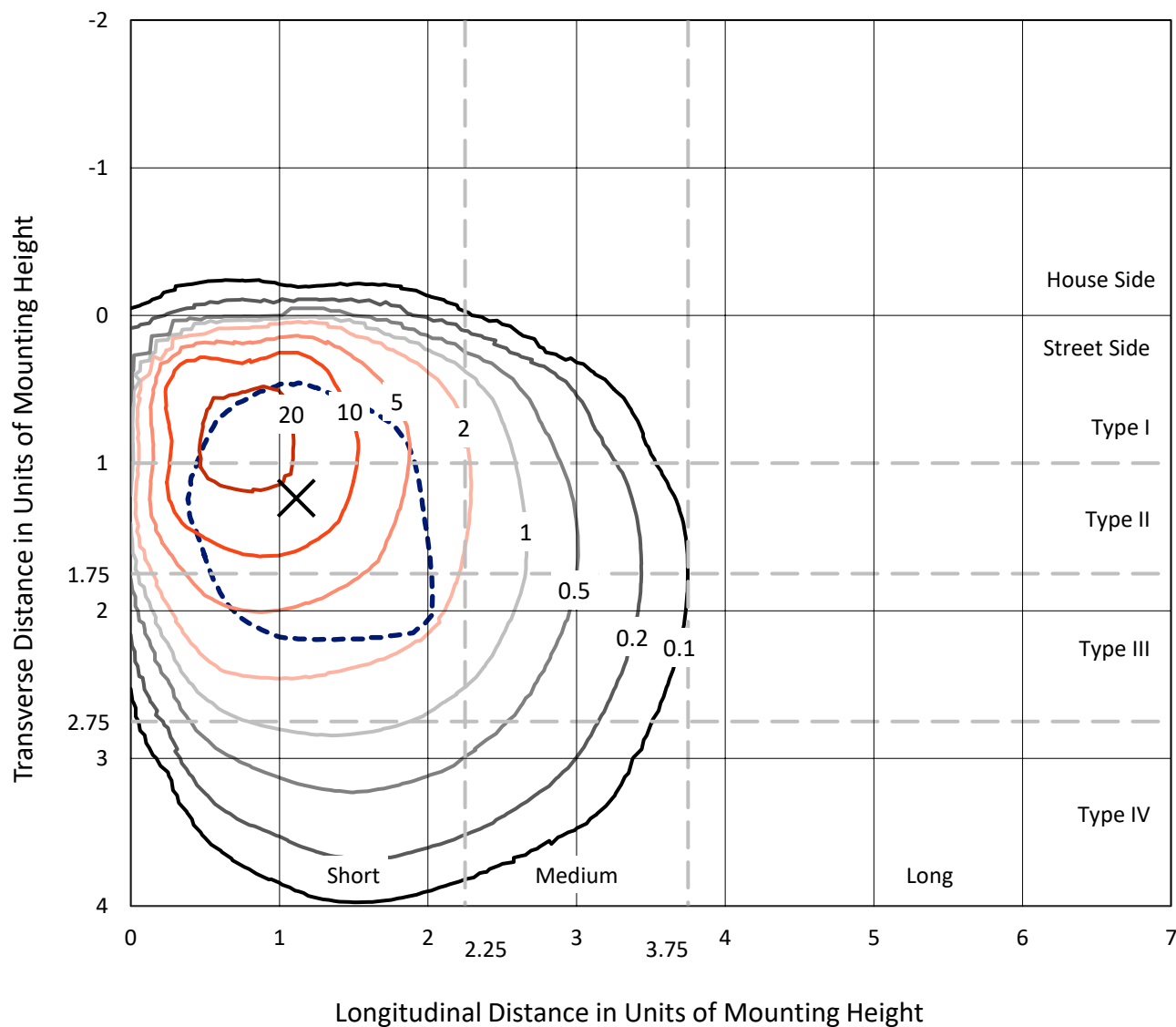
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

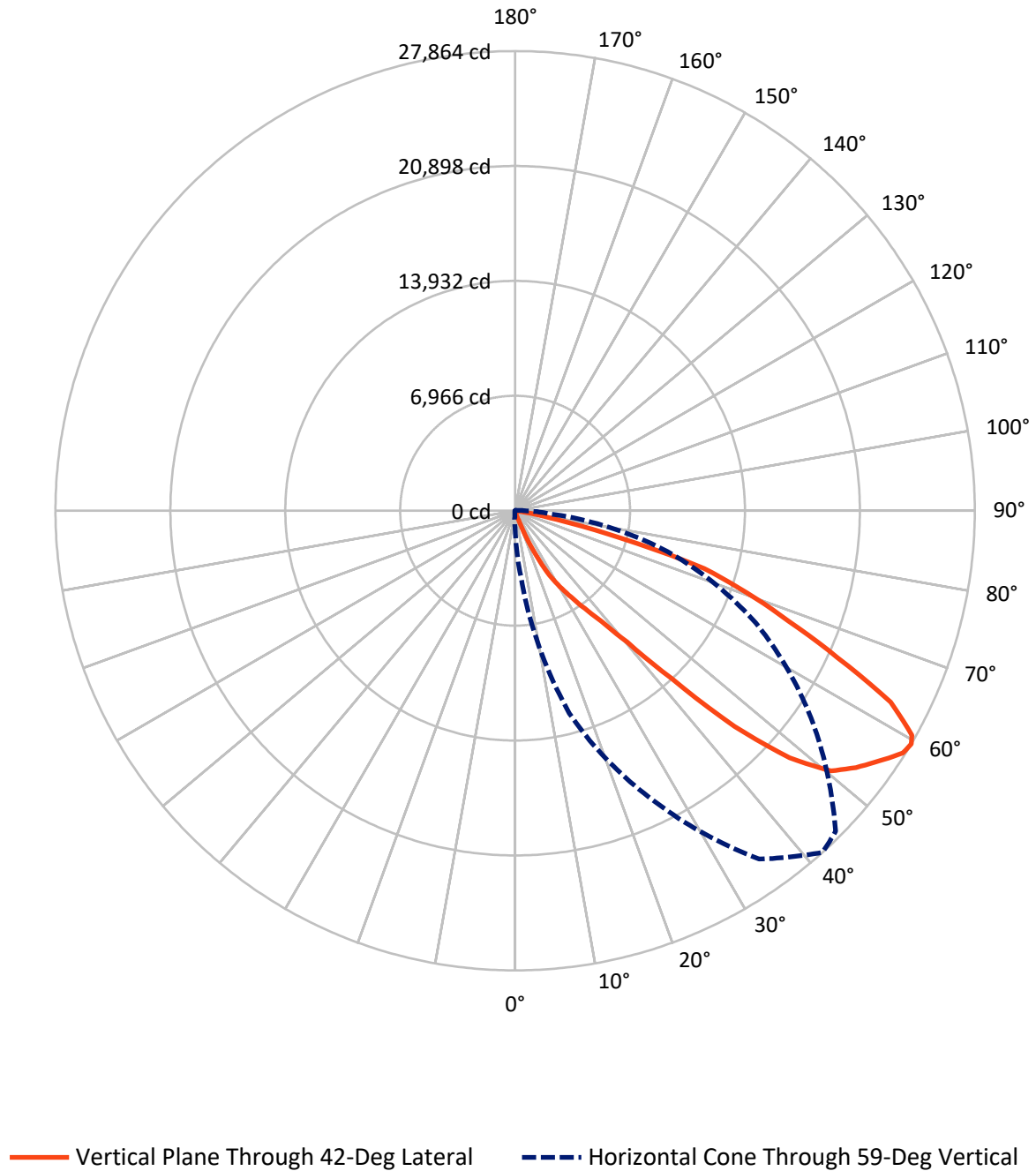


Based on 15 foot mounting height. Maximum calculated value = 30.2 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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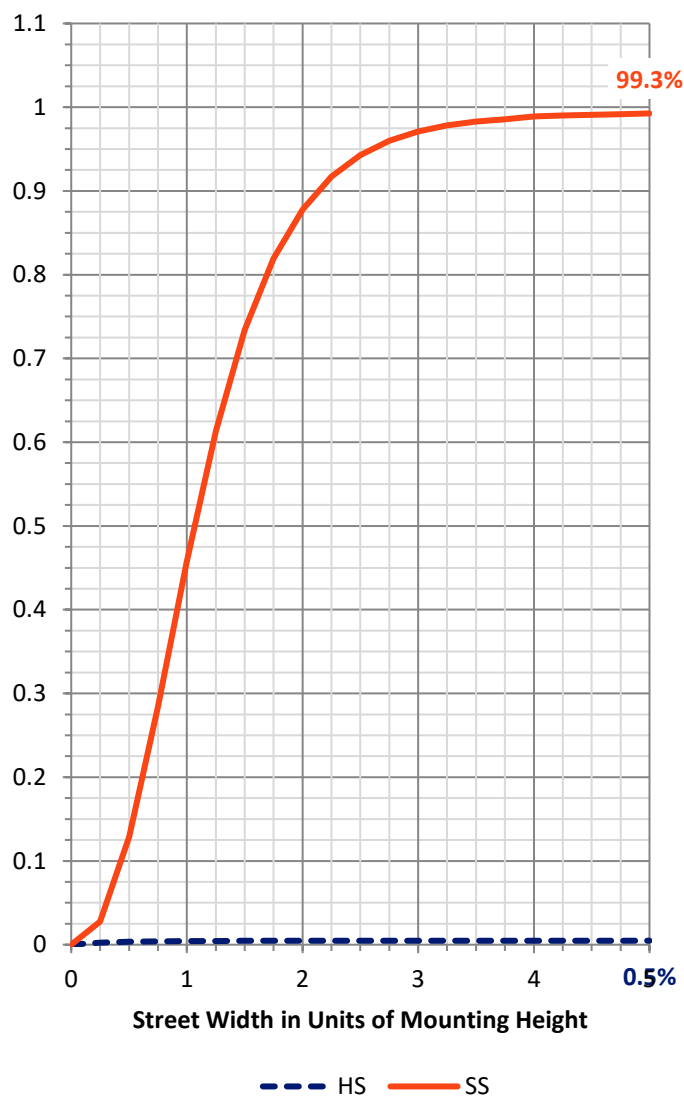
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 48.9     | 0.0    | 48.9    |
|                    | % Fixture | 0.5      | 0.0    | 0.5     |
| <b>Street Side</b> | Lumens    | 10106.4  | 0.0    | 10106.4 |
|                    | % Fixture | 99.5     | 0.0    | 99.5    |
| <b>Total</b>       | Lumens    | 10155.4  | 0.0    | 10155.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 3.0     | 0.0       |
| 10°-20°   | 14.8    | 0.1       |
| 20°-30°   | 189.4   | 1.9       |
| 30°-40°   | 638.6   | 6.3       |
| 40°-50°   | 1929.0  | 19.0      |
| 50°-60°   | 3405.1  | 33.5      |
| 60°-70°   | 2998.2  | 29.5      |
| 70°-80°   | 954.3   | 9.4       |
| 80°-90°   | 22.8    | 0.2       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 10155.4 | 100.0     |
| 0°-180°   | 10155.4 | 100.0     |



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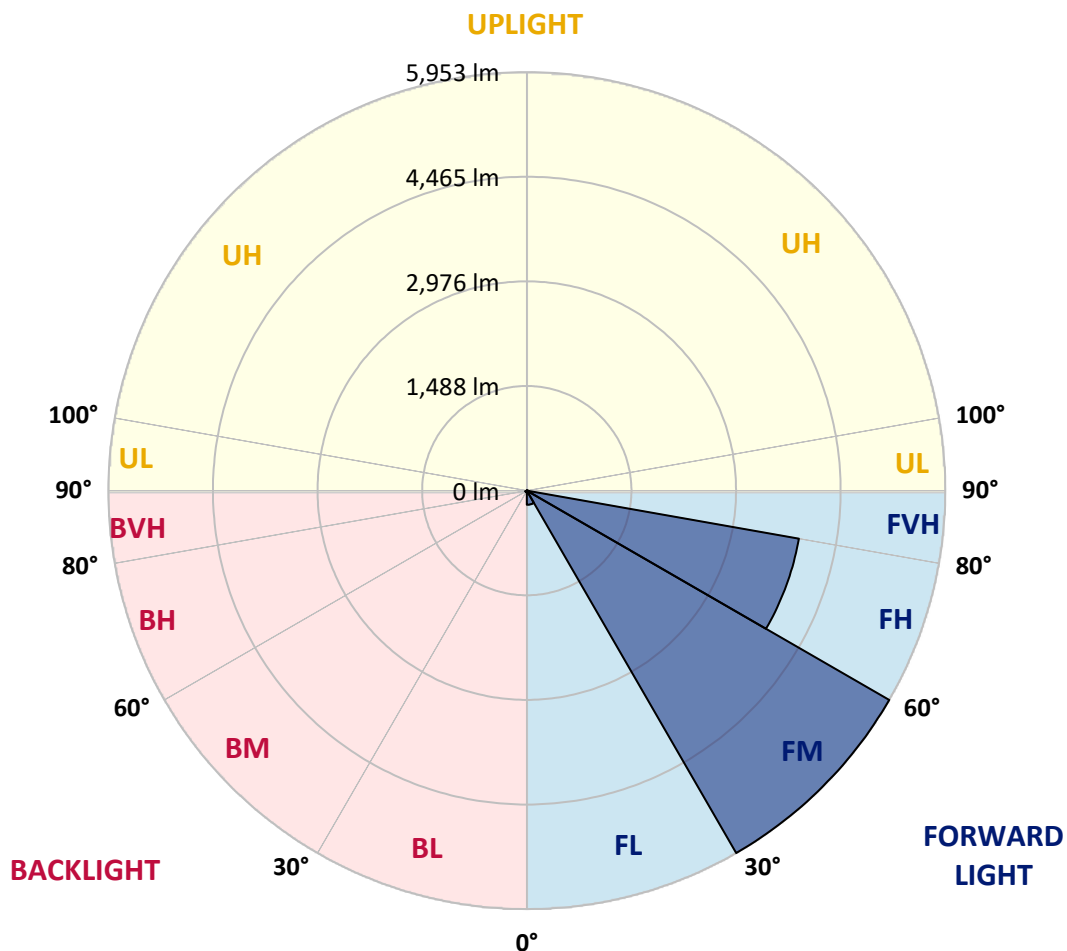
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 201.7  | 2.0       |                         |      |         |
| FM   | (30°-60°)   | 5952.7 | 58.6      |                         |      |         |
| FH   | (60°-80°)   | 3930.2 | 38.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 21.7   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 5.5    | 0.1       | B0/110                  |      |         |
| BM   | (30°-60°)   | 20.0   | 0.2       | B0/220                  |      |         |
| BH   | (60°-80°)   | 22.4   | 0.2       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 1.1    | 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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°     | 25°     | 35°     | 42°     | 45°     | 55°     | 65°     | 75°     | 85°    |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 28.7   | 28.7   | 28.7    | 28.7    | 28.7    | 28.7    | 28.7    | 28.7    | 28.7    | 28.7    | 28.7   |
| 2.5°  | 44.6   | 44.6   | 41.4    | 38.2    | 35.0    | 31.8    | 31.8    | 31.8    | 28.7    | 28.7    | 25.5   |
| 5°    | 50.9   | 50.9   | 47.8    | 44.6    | 44.6    | 41.4    | 41.4    | 38.2    | 35.0    | 35.0    | 31.8   |
| 7.5°  | 54.1   | 54.1   | 54.1    | 54.1    | 50.9    | 50.9    | 50.9    | 47.8    | 44.6    | 41.4    | 38.2   |
| 10°   | 57.3   | 60.5   | 63.7    | 63.7    | 63.7    | 63.7    | 63.7    | 60.5    | 54.1    | 50.9    | 44.6   |
| 12.5° | 63.7   | 66.9   | 73.2    | 79.6    | 79.6    | 82.8    | 79.6    | 76.4    | 70.0    | 60.5    | 50.9   |
| 15°   | 70.0   | 76.4   | 86.0    | 98.7    | 111.4   | 114.6   | 114.6   | 105.1   | 92.3    | 73.2    | 60.5   |
| 17.5° | 79.6   | 89.2   | 114.6   | 156.0   | 200.6   | 235.6   | 235.6   | 210.1   | 146.5   | 95.5    | 70.0   |
| 20°   | 86.0   | 105.1  | 184.7   | 375.7   | 573.1   | 719.6   | 690.9   | 611.3   | 328.0   | 149.6   | 76.4   |
| 22.5° | 95.5   | 133.7  | 391.6   | 987.1   | 1528.3  | 1795.8  | 1732.1  | 1315.0  | 735.5   | 267.5   | 92.3   |
| 25°   | 108.3  | 194.2  | 776.9   | 1849.9  | 2840.2  | 3129.9  | 3088.5  | 2454.9  | 1340.5  | 448.9   | 117.8  |
| 27.5° | 133.7  | 286.6  | 1245.0  | 2805.1  | 4190.2  | 4438.6  | 4422.6  | 3594.8  | 2142.9  | 722.8   | 152.8  |
| 30°   | 168.8  | 417.1  | 1846.7  | 3811.3  | 5084.9  | 5336.5  | 5256.9  | 4429.0  | 2891.1  | 1104.9  | 197.4  |
| 32.5° | 210.1  | 582.7  | 2391.2  | 4553.2  | 5909.6  | 6240.7  | 6145.2  | 5155.0  | 3492.9  | 1429.6  | 292.9  |
| 35°   | 273.8  | 745.1  | 2929.3  | 5209.1  | 6861.6  | 7281.9  | 7122.7  | 5903.2  | 4011.9  | 1795.8  | 353.4  |
| 37.5° | 305.7  | 840.6  | 3422.8  | 5922.3  | 7931.4  | 8504.6  | 8383.6  | 6848.9  | 4540.4  | 2263.9  | 433.0  |
| 40°   | 308.9  | 955.2  | 3935.5  | 6852.1  | 9443.9  | 10465.9 | 10249.4 | 8472.7  | 5524.3  | 2865.6  | 557.2  |
| 42.5° | 318.4  | 1127.2 | 4600.9  | 8437.7  | 12414.6 | 13882.4 | 13637.2 | 11459.4 | 7756.3  | 4072.4  | 789.6  |
| 45°   | 363.0  | 1451.9 | 5957.3  | 11402.0 | 16493.3 | 18645.7 | 18362.4 | 15620.9 | 10873.5 | 6342.6  | 1346.8 |
| 47.5° | 519.0  | 2184.3 | 8335.8  | 14602.0 | 20664.4 | 22380.6 | 22310.6 | 18900.5 | 13697.7 | 8670.1  | 2283.0 |
| 50°   | 834.2  | 3352.8 | 11042.3 | 17292.5 | 23319.9 | 24794.1 | 24619.0 | 20269.6 | 15308.9 | 10259.0 | 2926.1 |
| 52.5° | 1114.4 | 4470.4 | 12742.5 | 18282.8 | 24112.7 | 25870.3 | 25657.0 | 20769.5 | 15732.3 | 10727.0 | 3104.4 |
| 55°   | 1184.5 | 4874.8 | 13248.8 | 18588.4 | 24638.1 | 26781.0 | 26472.1 | 21103.8 | 15786.5 | 10392.7 | 2808.3 |
| 57.5° | 1149.4 | 4492.7 | 12920.8 | 18887.7 | 25370.4 | 27717.1 | 27306.3 | 21756.6 | 15968.0 | 9825.9  | 2337.1 |
| 59°   | 1088.9 | 4021.4 | 12717.1 | 19126.5 | 25774.8 | 27863.5 | 27478.3 | 21899.8 | 16089.0 | 9568.0  | 2050.5 |
| 60°   | 1018.9 | 3703.0 | 12557.9 | 19282.6 | 25749.3 | 27634.3 | 27236.3 | 21833.0 | 16136.7 | 9345.2  | 1913.6 |
| 62.5° | 786.5  | 2954.8 | 12328.6 | 19171.1 | 24141.4 | 25542.4 | 25316.3 | 20196.4 | 15436.2 | 8631.9  | 1509.2 |
| 65°   | 611.3  | 2260.7 | 11488.0 | 17098.3 | 20543.4 | 21485.9 | 21415.9 | 17101.5 | 12990.9 | 7441.1  | 1088.9 |
| 67.5° | 484.0  | 1649.3 | 9714.5  | 13847.4 | 16528.4 | 17868.8 | 17817.9 | 13882.4 | 9861.0  | 5686.7  | 783.3  |
| 70°   | 394.8  | 1174.9 | 6661.0  | 10440.5 | 13220.1 | 14907.7 | 14834.4 | 11172.8 | 7307.4  | 3607.5  | 569.9  |
| 72.5° | 334.3  | 751.4  | 4040.5  | 7870.9  | 11032.7 | 11997.5 | 11784.1 | 9014.0  | 5314.2  | 1964.6  | 452.1  |
| 75°   | 283.4  | 461.7  | 2002.8  | 4906.6  | 6571.9  | 6565.5  | 6352.2  | 4772.9  | 2852.9  | 961.6   | 359.8  |
| 77.5° | 229.3  | 324.8  | 786.5   | 1346.8  | 2072.8  | 2566.3  | 2524.9  | 1690.7  | 853.3   | 280.2   | 222.9  |
| 80°   | 149.6  | 152.8  | 210.1   | 369.3   | 569.9   | 630.4   | 716.4   | 515.8   | 248.4   | 133.7   | 92.3   |
| 82.5° | 66.9   | 73.2   | 95.5    | 121.0   | 121.0   | 111.4   | 98.7    | 73.2    | 54.1    | 44.6    | 22.3   |
| 85°   | 15.9   | 22.3   | 15.9    | 19.1    | 15.9    | 12.7    | 12.7    | 6.4     | 0.0     | 0.0     | 0.0    |
| 87.5° | 3.2    | 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):**

|       | 90°   | 95°   | 105°  | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 0°    | 28.7  | 28.7  | 28.7  | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 |
| 2.5°  | 25.5  | 25.5  | 25.5  | 22.3 | 22.3 | 22.3 | 19.1 | 19.1 | 19.1 | 15.9 | 15.9 |
| 5°    | 31.8  | 28.7  | 25.5  | 25.5 | 22.3 | 22.3 | 19.1 | 15.9 | 15.9 | 15.9 | 12.7 |
| 7.5°  | 35.0  | 31.8  | 28.7  | 25.5 | 22.3 | 19.1 | 19.1 | 15.9 | 12.7 | 12.7 | 12.7 |
| 10°   | 41.4  | 38.2  | 31.8  | 25.5 | 22.3 | 19.1 | 15.9 | 15.9 | 12.7 | 9.6  | 9.6  |
| 12.5° | 47.8  | 41.4  | 35.0  | 28.7 | 22.3 | 19.1 | 15.9 | 15.9 | 12.7 | 9.6  | 6.4  |
| 15°   | 54.1  | 47.8  | 38.2  | 28.7 | 22.3 | 19.1 | 15.9 | 15.9 | 9.6  | 6.4  | 3.2  |
| 17.5° | 60.5  | 50.9  | 38.2  | 31.8 | 22.3 | 19.1 | 15.9 | 12.7 | 6.4  | 3.2  | 0.0  |
| 20°   | 63.7  | 54.1  | 41.4  | 31.8 | 22.3 | 19.1 | 15.9 | 9.6  | 3.2  | 0.0  | 0.0  |
| 22.5° | 70.0  | 60.5  | 44.6  | 31.8 | 22.3 | 15.9 | 9.6  | 3.2  | 0.0  | 0.0  | 0.0  |
| 25°   | 82.8  | 63.7  | 44.6  | 31.8 | 22.3 | 15.9 | 6.4  | 0.0  | 0.0  | 0.0  | 0.0  |
| 27.5° | 92.3  | 70.0  | 44.6  | 31.8 | 22.3 | 12.7 | 3.2  | 0.0  | 0.0  | 0.0  | 0.0  |
| 30°   | 108.3 | 76.4  | 47.8  | 31.8 | 22.3 | 9.6  | 3.2  | 0.0  | 0.0  | 0.0  | 0.0  |
| 32.5° | 133.7 | 82.8  | 47.8  | 31.8 | 19.1 | 9.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 35°   | 162.4 | 95.5  | 47.8  | 31.8 | 19.1 | 9.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 37.5° | 165.6 | 101.9 | 47.8  | 31.8 | 19.1 | 6.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 40°   | 171.9 | 95.5  | 50.9  | 31.8 | 19.1 | 6.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 42.5° | 197.4 | 89.2  | 54.1  | 31.8 | 19.1 | 6.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 45°   | 292.9 | 92.3  | 54.1  | 35.0 | 19.1 | 9.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 47.5° | 509.4 | 95.5  | 50.9  | 35.0 | 19.1 | 9.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 50°   | 652.7 | 111.4 | 50.9  | 38.2 | 22.3 | 6.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 52.5° | 694.1 | 130.5 | 50.9  | 41.4 | 28.7 | 3.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 55°   | 675.0 | 152.8 | 54.1  | 44.6 | 35.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 57.5° | 624.1 | 165.6 | 57.3  | 47.8 | 38.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 59°   | 569.9 | 175.1 | 66.9  | 50.9 | 38.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 60°   | 525.4 | 184.7 | 70.0  | 54.1 | 38.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 62.5° | 423.5 | 197.4 | 76.4  | 63.7 | 31.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 65°   | 369.3 | 207.0 | 79.6  | 70.0 | 28.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 67.5° | 337.5 | 213.3 | 86.0  | 73.2 | 25.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 70°   | 312.0 | 210.1 | 92.3  | 70.0 | 22.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 72.5° | 283.4 | 200.6 | 111.4 | 63.7 | 19.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 75°   | 254.7 | 181.5 | 121.0 | 57.3 | 12.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 77.5° | 184.7 | 152.8 | 111.4 | 50.9 | 6.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 80°   | 79.6  | 82.8  | 79.6  | 38.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 82.5° | 15.9  | 19.1  | 15.9  | 9.6  | 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°    | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 |
| 2.5°  | 15.9 | 15.9 | 15.9 | 15.9 | 19.1 | 19.1 | 25.5 | 31.8 | 38.2 | 41.4 | 41.4 |
| 5°    | 12.7 | 12.7 | 12.7 | 12.7 | 12.7 | 15.9 | 19.1 | 25.5 | 35.0 | 38.2 | 38.2 |
| 7.5°  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 15.9 | 22.3 | 31.8 | 35.0 | 38.2 |
| 10°   | 9.6  | 6.4  | 6.4  | 3.2  | 3.2  | 6.4  | 9.6  | 19.1 | 28.7 | 31.8 | 35.0 |
| 12.5° | 6.4  | 3.2  | 3.2  | 0.0  | 0.0  | 3.2  | 6.4  | 15.9 | 25.5 | 28.7 | 31.8 |
| 15°   | 3.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  | 12.7 | 22.3 | 25.5 | 31.8 |
| 17.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.6  | 19.1 | 25.5 | 28.7 |
| 20°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.4  | 15.9 | 22.3 | 25.5 |
| 22.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  | 12.7 | 19.1 | 22.3 |
| 25°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.6  | 12.7 | 15.9 |
| 27.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.4  | 9.6  | 12.7 |
| 30°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.4  | 9.6  | 12.7 |
| 32.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  | 6.4  | 9.6  |
| 35°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  | 6.4  | 9.6  |
| 37.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  | 6.4  | 6.4  |
| 40°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  | 6.4  |
| 42.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  | 6.4  |
| 45°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  | 6.4  |
| 47.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  | 6.4  |
| 50°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  | 6.4  |
| 52.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  | 3.2  |
| 55°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  | 3.2  |
| 57.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  |
| 59°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  |
| 60°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  |
| 62.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  |
| 65°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  |
| 67.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  |
| 70°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  |
| 72.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  |
| 75°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  | 3.2  |
| 77.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  | 6.4  |
| 80°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  | 6.4  |
| 82.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  | 3.2  |
| 85°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  | 3.2  |
| 87.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  | 3.2  |
| 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: P1066894

CATALOG NUMBER: NVN-SA3B-835-U-LBC

**CANDELA DISTRIBUTION (continued):**

|       | 285° | 295° | 305° | 315° | 318° | 325° | 335° | 345°  | 355°  | 360°   |
|-------|------|------|------|------|------|------|------|-------|-------|--------|
| 0°    | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7  | 28.7  | 28.7   |
| 2.5°  | 44.6 | 44.6 | 41.4 | 38.2 | 38.2 | 38.2 | 41.4 | 44.6  | 44.6  | 44.6   |
| 5°    | 41.4 | 41.4 | 38.2 | 38.2 | 38.2 | 38.2 | 41.4 | 47.8  | 50.9  | 50.9   |
| 7.5°  | 41.4 | 41.4 | 38.2 | 38.2 | 38.2 | 38.2 | 41.4 | 47.8  | 50.9  | 54.1   |
| 10°   | 38.2 | 38.2 | 38.2 | 38.2 | 35.0 | 38.2 | 41.4 | 47.8  | 57.3  | 57.3   |
| 12.5° | 38.2 | 38.2 | 38.2 | 38.2 | 35.0 | 38.2 | 44.6 | 50.9  | 60.5  | 63.7   |
| 15°   | 38.2 | 38.2 | 38.2 | 35.0 | 35.0 | 38.2 | 44.6 | 54.1  | 63.7  | 70.0   |
| 17.5° | 35.0 | 38.2 | 38.2 | 35.0 | 35.0 | 38.2 | 44.6 | 54.1  | 70.0  | 79.6   |
| 20°   | 31.8 | 35.0 | 38.2 | 35.0 | 35.0 | 35.0 | 44.6 | 54.1  | 73.2  | 86.0   |
| 22.5° | 28.7 | 31.8 | 35.0 | 35.0 | 31.8 | 35.0 | 44.6 | 57.3  | 79.6  | 95.5   |
| 25°   | 25.5 | 28.7 | 28.7 | 31.8 | 31.8 | 35.0 | 44.6 | 57.3  | 82.8  | 108.3  |
| 27.5° | 19.1 | 22.3 | 25.5 | 28.7 | 28.7 | 35.0 | 44.6 | 60.5  | 89.2  | 133.7  |
| 30°   | 15.9 | 19.1 | 22.3 | 25.5 | 28.7 | 35.0 | 44.6 | 60.5  | 95.5  | 168.8  |
| 32.5° | 15.9 | 19.1 | 22.3 | 25.5 | 28.7 | 31.8 | 44.6 | 63.7  | 105.1 | 210.1  |
| 35°   | 12.7 | 15.9 | 19.1 | 25.5 | 25.5 | 31.8 | 44.6 | 63.7  | 114.6 | 273.8  |
| 37.5° | 12.7 | 15.9 | 19.1 | 25.5 | 25.5 | 31.8 | 44.6 | 63.7  | 140.1 | 305.7  |
| 40°   | 9.6  | 12.7 | 15.9 | 25.5 | 25.5 | 31.8 | 47.8 | 66.9  | 143.3 | 308.9  |
| 42.5° | 9.6  | 12.7 | 15.9 | 22.3 | 25.5 | 31.8 | 47.8 | 66.9  | 133.7 | 318.4  |
| 45°   | 9.6  | 12.7 | 15.9 | 25.5 | 28.7 | 35.0 | 47.8 | 70.0  | 130.5 | 363.0  |
| 47.5° | 9.6  | 12.7 | 15.9 | 25.5 | 31.8 | 35.0 | 47.8 | 70.0  | 133.7 | 519.0  |
| 50°   | 9.6  | 12.7 | 15.9 | 25.5 | 35.0 | 35.0 | 47.8 | 70.0  | 146.5 | 834.2  |
| 52.5° | 6.4  | 9.6  | 12.7 | 22.3 | 28.7 | 38.2 | 50.9 | 66.9  | 156.0 | 1114.4 |
| 55°   | 6.4  | 6.4  | 9.6  | 19.1 | 25.5 | 41.4 | 54.1 | 66.9  | 181.5 | 1184.5 |
| 57.5° | 6.4  | 6.4  | 9.6  | 15.9 | 22.3 | 44.6 | 57.3 | 66.9  | 210.1 | 1149.4 |
| 59°   | 6.4  | 6.4  | 6.4  | 15.9 | 19.1 | 44.6 | 57.3 | 70.0  | 213.3 | 1088.9 |
| 60°   | 6.4  | 6.4  | 6.4  | 12.7 | 19.1 | 44.6 | 60.5 | 73.2  | 216.5 | 1018.9 |
| 62.5° | 3.2  | 3.2  | 3.2  | 12.7 | 15.9 | 44.6 | 66.9 | 89.2  | 222.9 | 786.5  |
| 65°   | 6.4  | 6.4  | 3.2  | 9.6  | 15.9 | 38.2 | 76.4 | 95.5  | 226.1 | 611.3  |
| 67.5° | 6.4  | 6.4  | 6.4  | 12.7 | 15.9 | 38.2 | 79.6 | 98.7  | 226.1 | 484.0  |
| 70°   | 6.4  | 6.4  | 6.4  | 12.7 | 19.1 | 38.2 | 79.6 | 101.9 | 222.9 | 394.8  |
| 72.5° | 6.4  | 6.4  | 6.4  | 12.7 | 19.1 | 35.0 | 73.2 | 105.1 | 213.3 | 334.3  |
| 75°   | 6.4  | 6.4  | 6.4  | 9.6  | 15.9 | 31.8 | 70.0 | 114.6 | 194.2 | 283.4  |
| 77.5° | 6.4  | 6.4  | 6.4  | 6.4  | 12.7 | 25.5 | 63.7 | 127.4 | 171.9 | 229.3  |
| 80°   | 9.6  | 6.4  | 6.4  | 6.4  | 9.6  | 22.3 | 60.5 | 124.2 | 143.3 | 149.6  |
| 82.5° | 9.6  | 6.4  | 6.4  | 3.2  | 6.4  | 15.9 | 47.8 | 95.5  | 73.2  | 66.9   |
| 85°   | 6.4  | 6.4  | 6.4  | 3.2  | 3.2  | 9.6  | 22.3 | 28.7  | 22.3  | 15.9   |
| 87.5° | 6.4  | 6.4  | 6.4  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2   | 3.2   | 3.2    |
| 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: SP1-2407-184-10

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

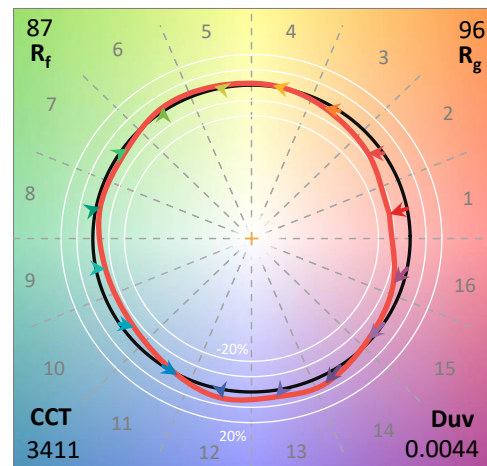
### Test Information

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

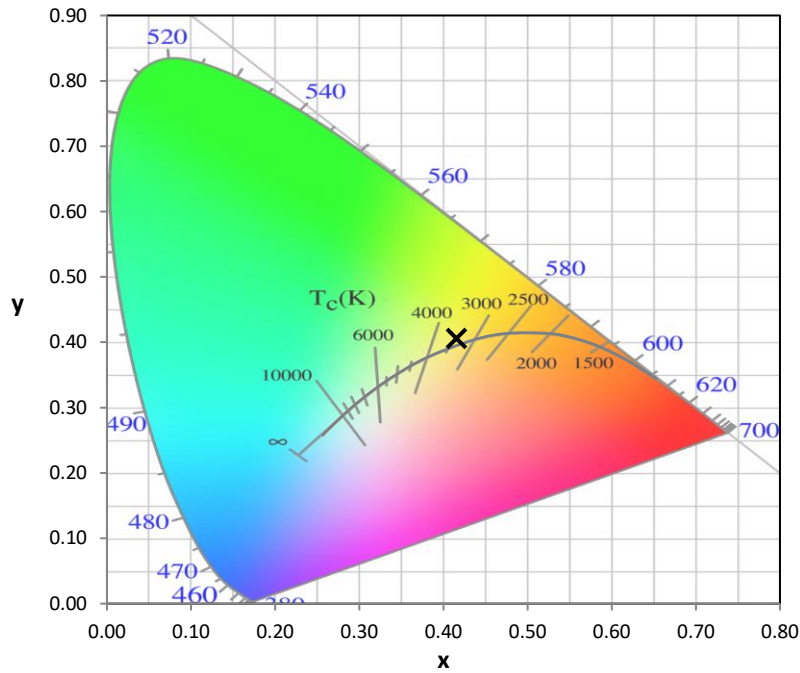
Stabilization Time: 35M  
 Operation Time: 1H 35M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-10

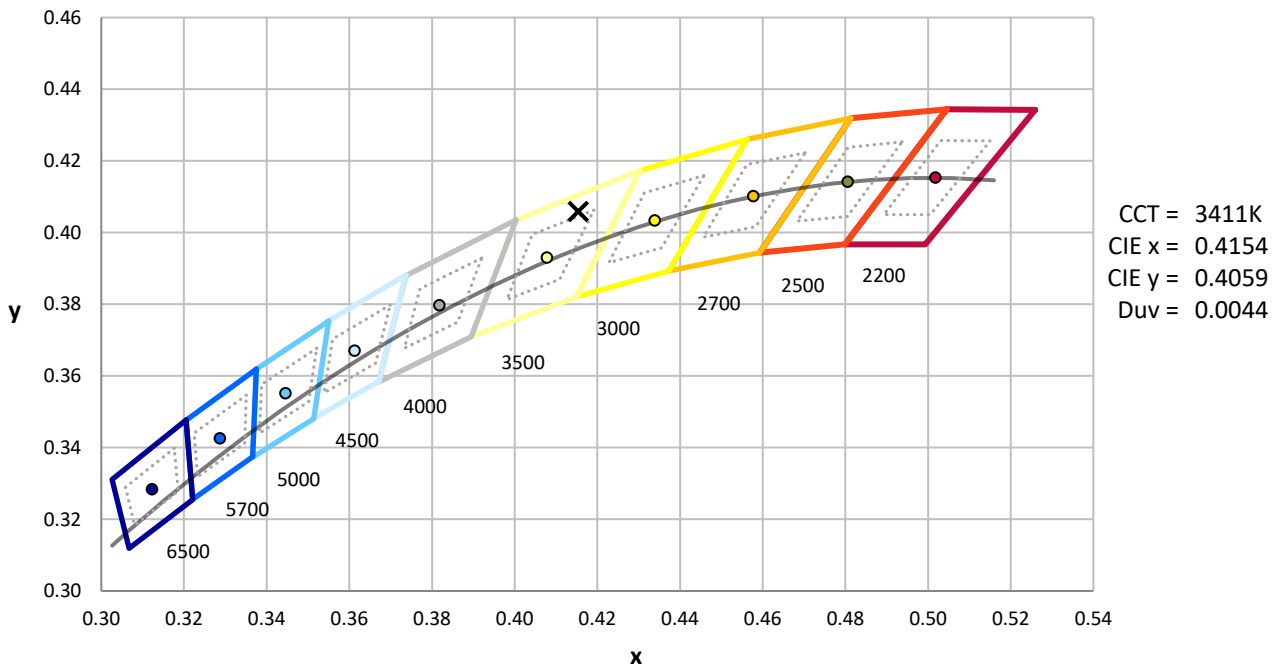
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date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



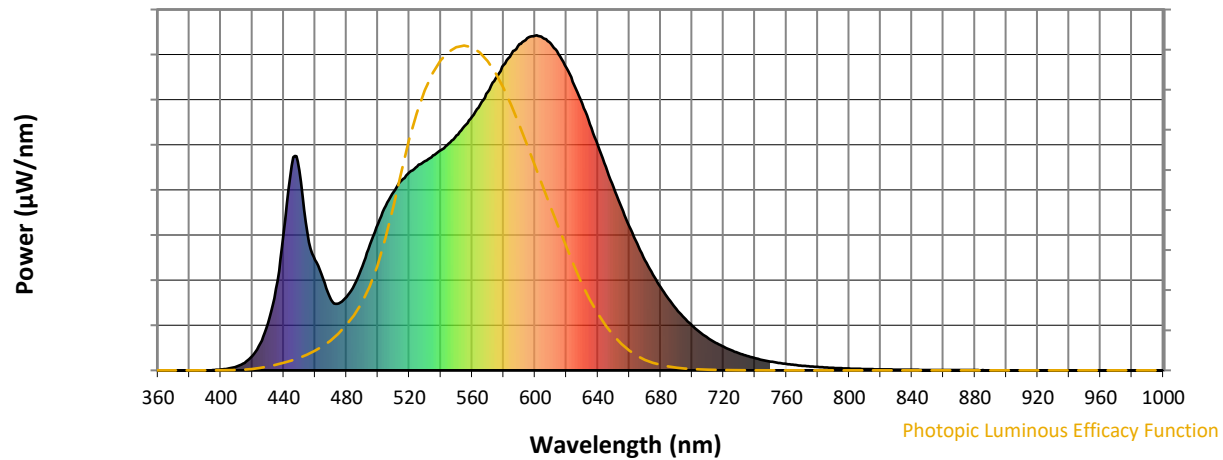
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 3500K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-10

### Photopic Flux vs. Wavelength

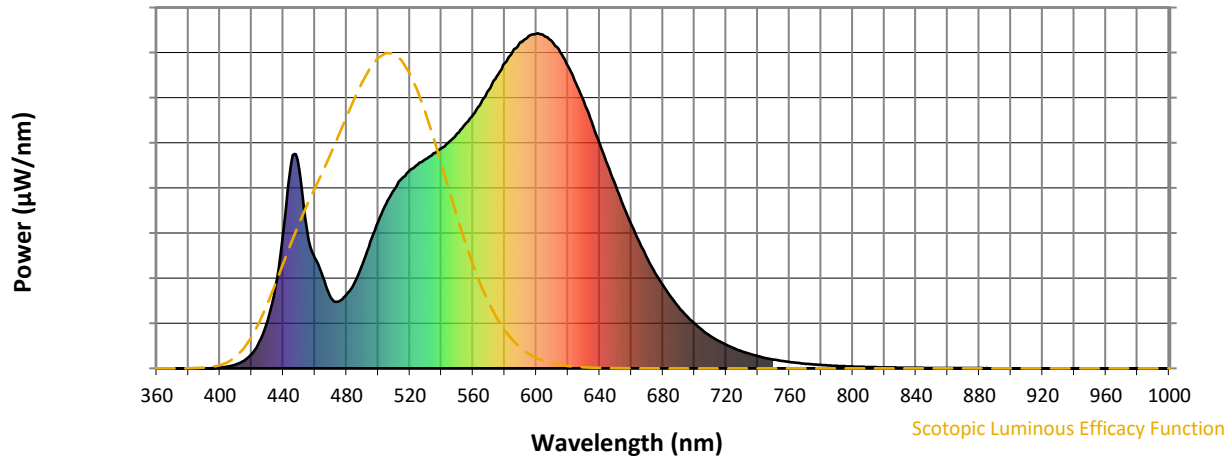


### Photopic Lumens: NR

| λ (nm) | Power W <sup>λ</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>λ</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>λ</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>λ</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>λ</sup> /nm | Lumens (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            |        |                          |               |

REPORT NUMBER: SP1-2407-184-10

### Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

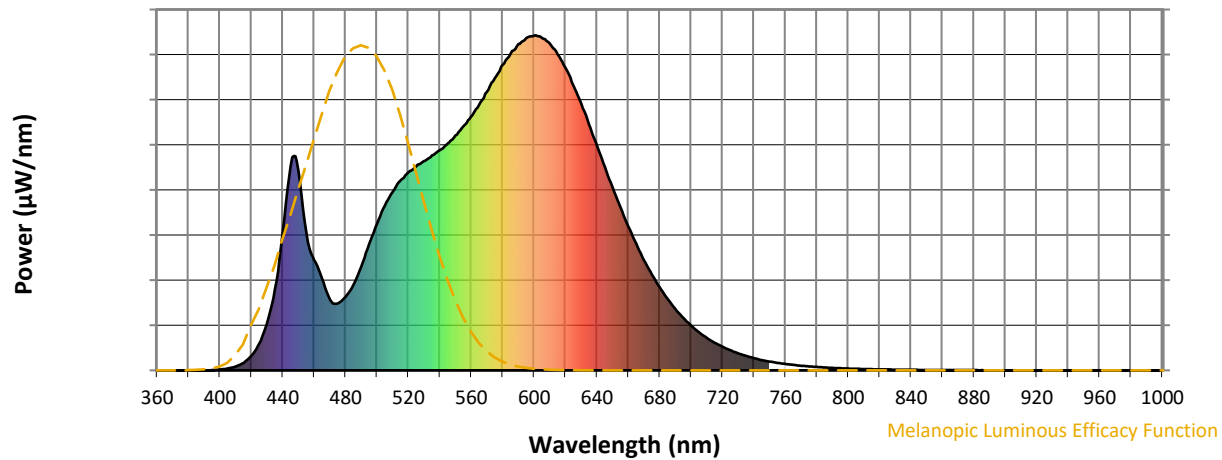
S/P: 1.48

| $\lambda$<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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### Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.88

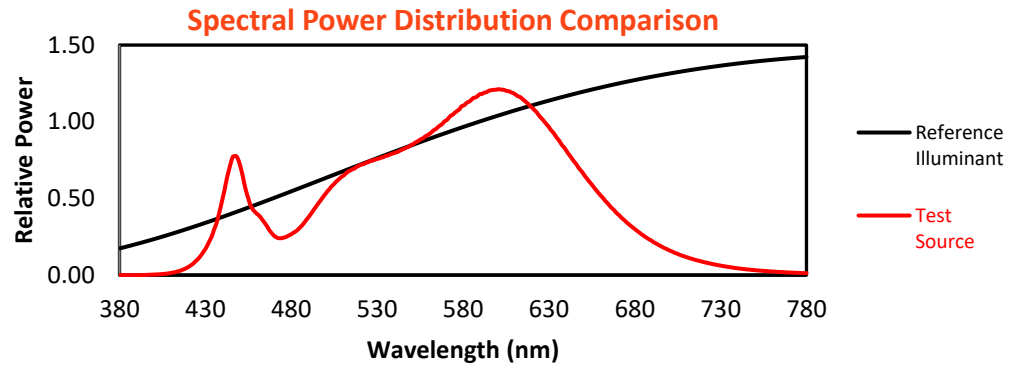
| λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) |
|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|
| 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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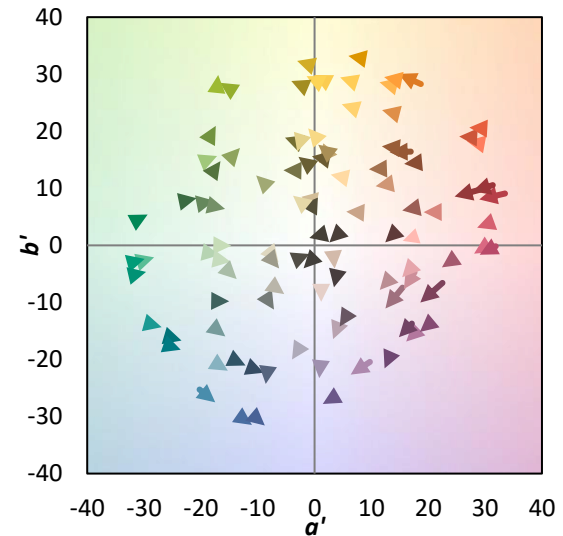
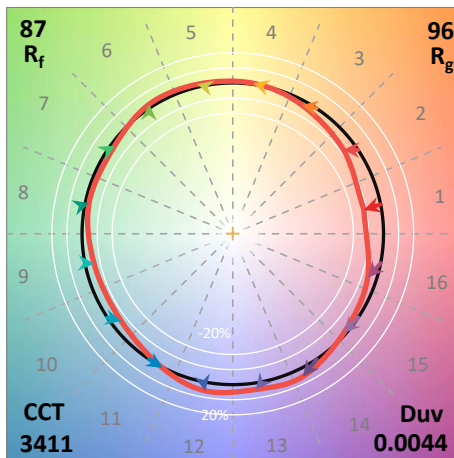
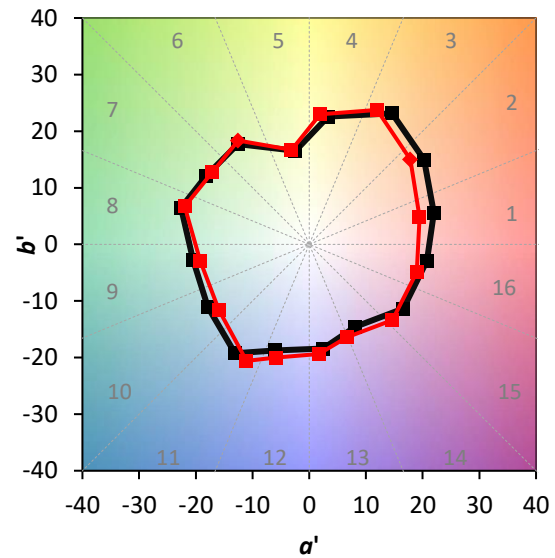
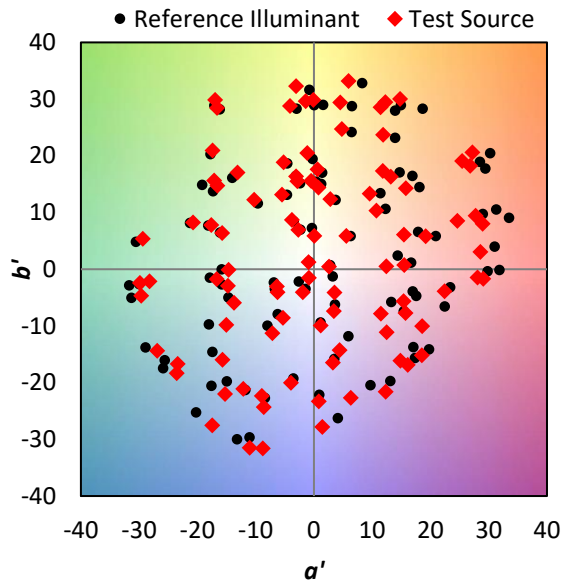
TM-30-18

### Summary

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

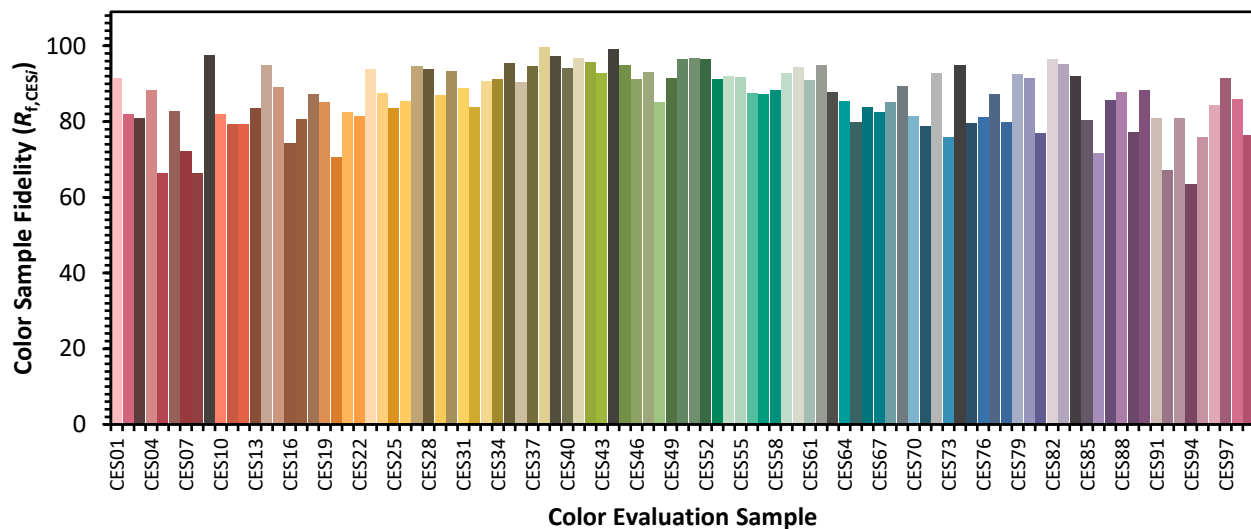


### Color Vector Graphics

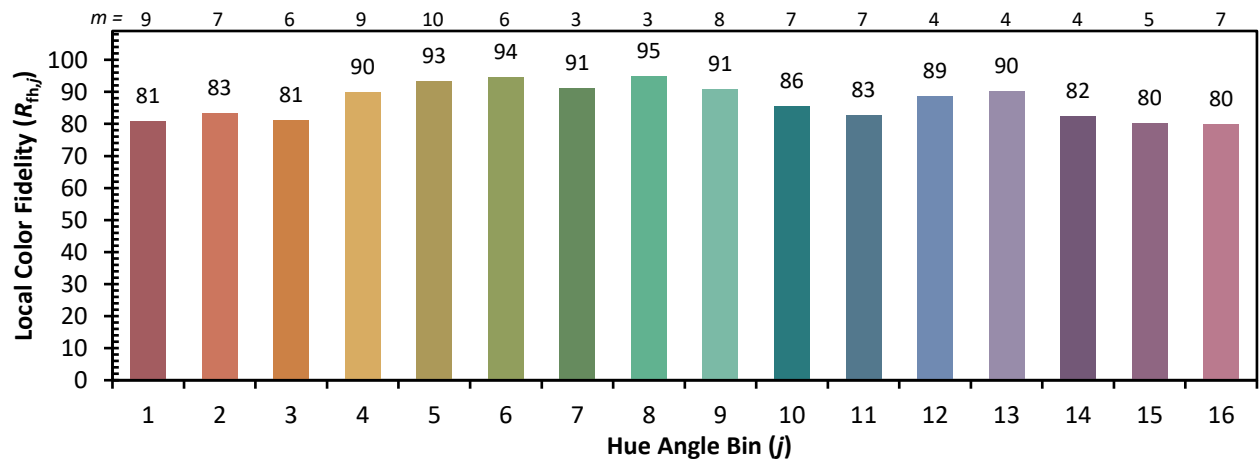
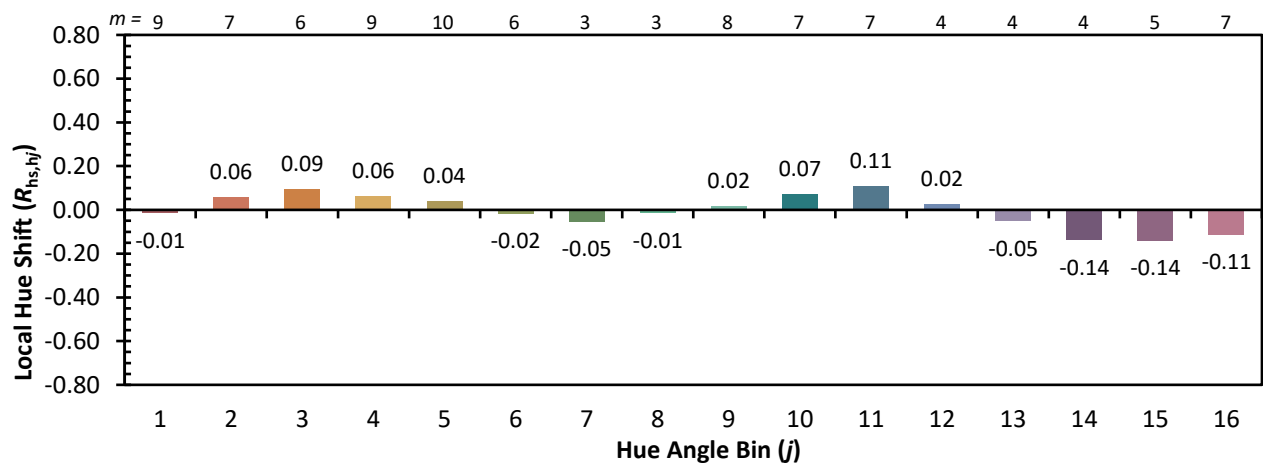
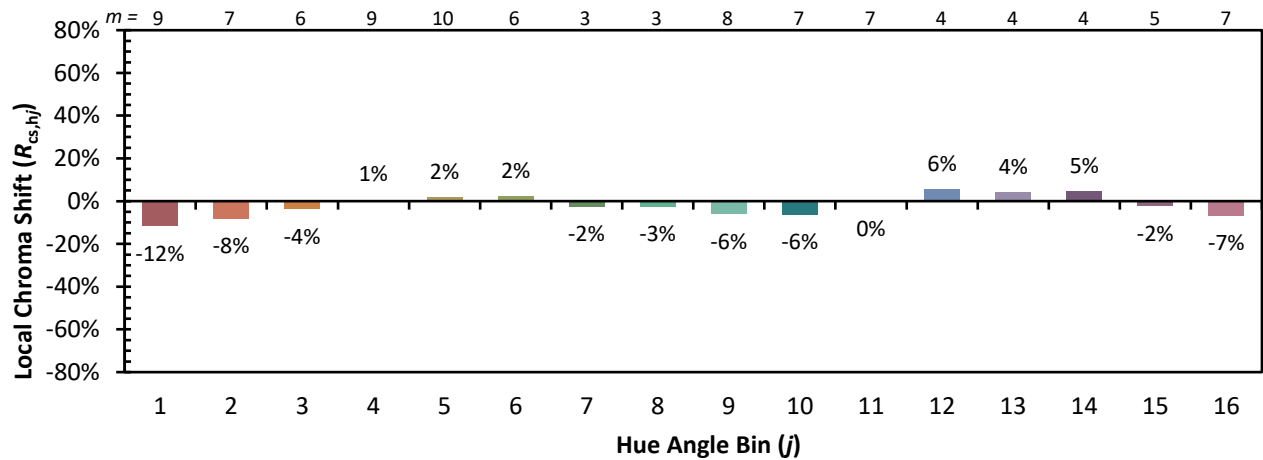


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

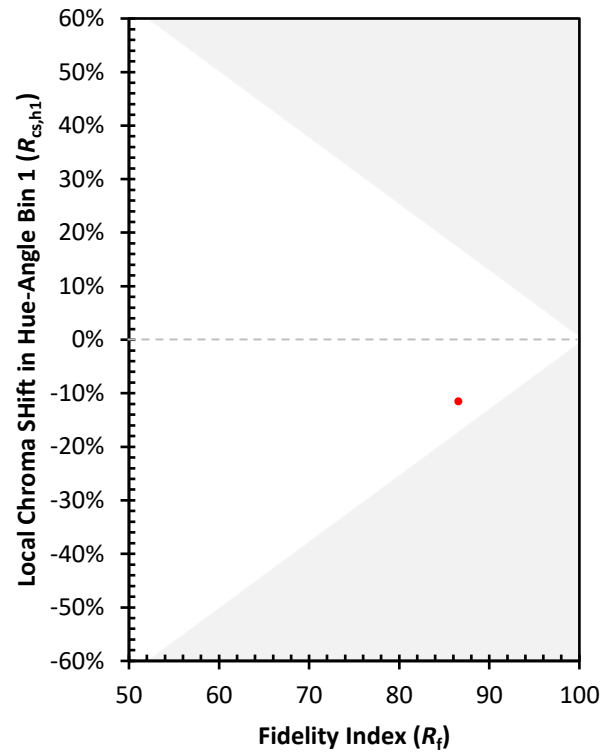
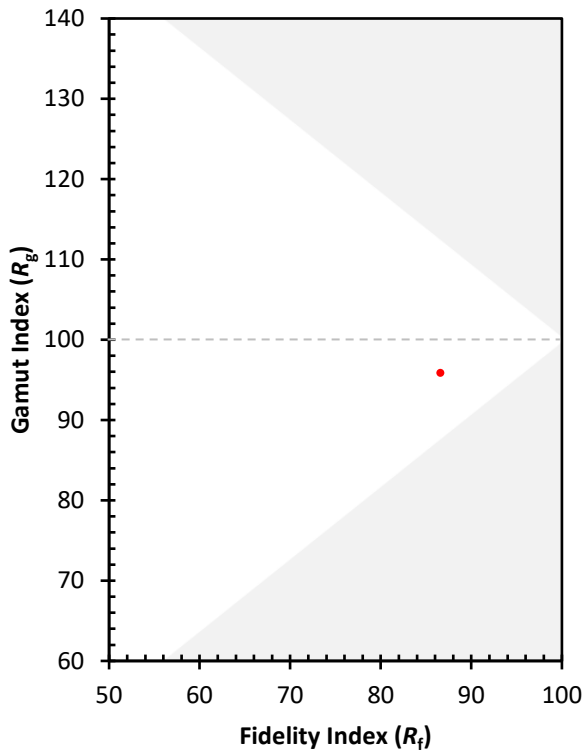
|            |             |            |            |
|------------|-------------|------------|------------|
| CES01 = 86 | CES26 = 85  | CES51 = 97 | CES76 = 81 |
| CES02 = 62 | CES27 = 95  | CES52 = 96 | CES77 = 87 |
| CES03 = 31 | CES28 = 94  | CES53 = 91 | CES78 = 80 |
| CES04 = 70 | CES29 = 87  | 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)