

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: P1066722

Luminaire Tested: **NVN-SA2B-727-U-LBC**

Issue Date: 08/07/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1066722  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 08/07/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SA2B-727-U-LBC  
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 2xLight Square PACKAGE  
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (28) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6509.5 lumens  
Efficiency: N/A  
Efficacy: 89.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G2

Input Watts (W): 72.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.97  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



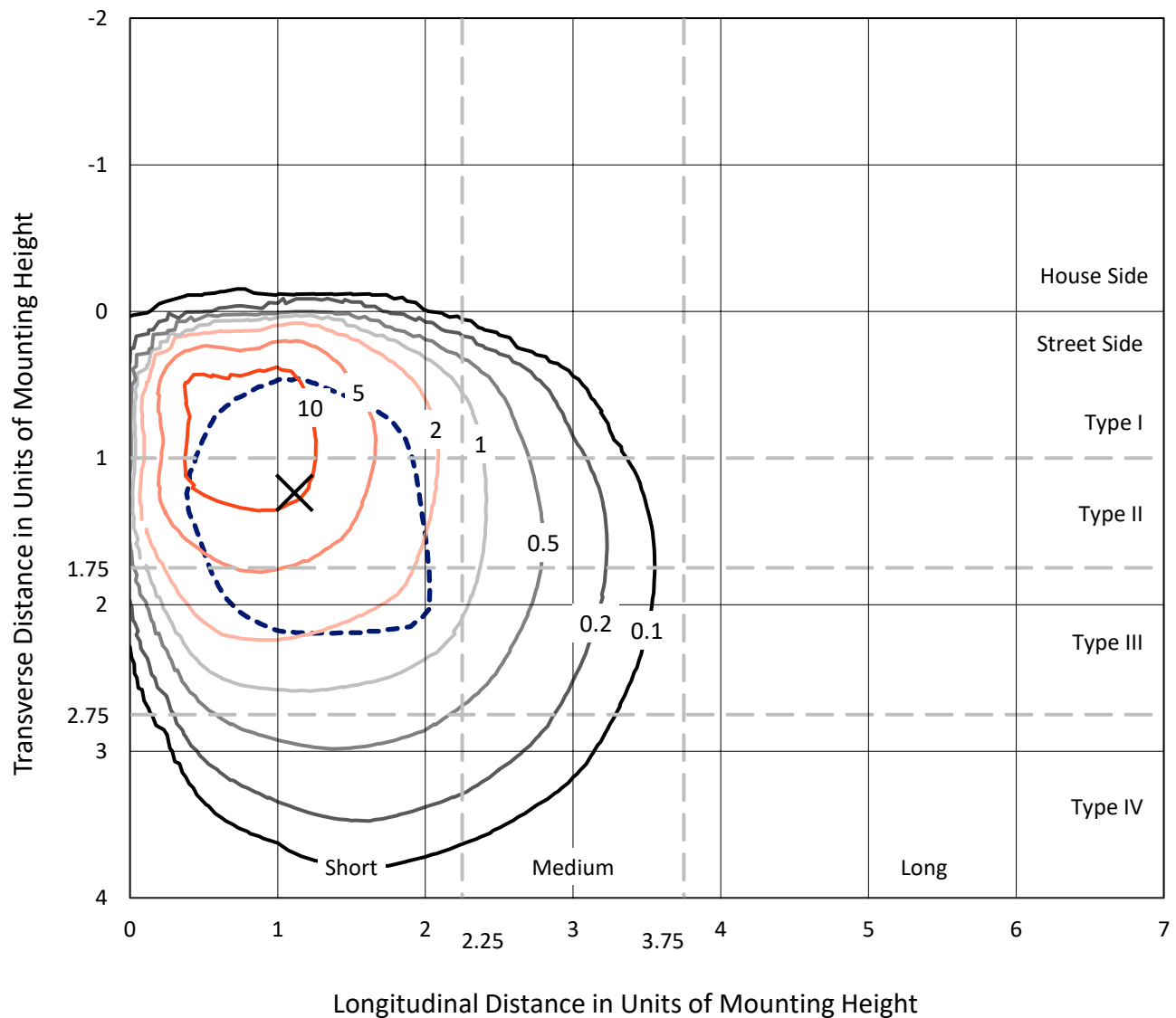
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

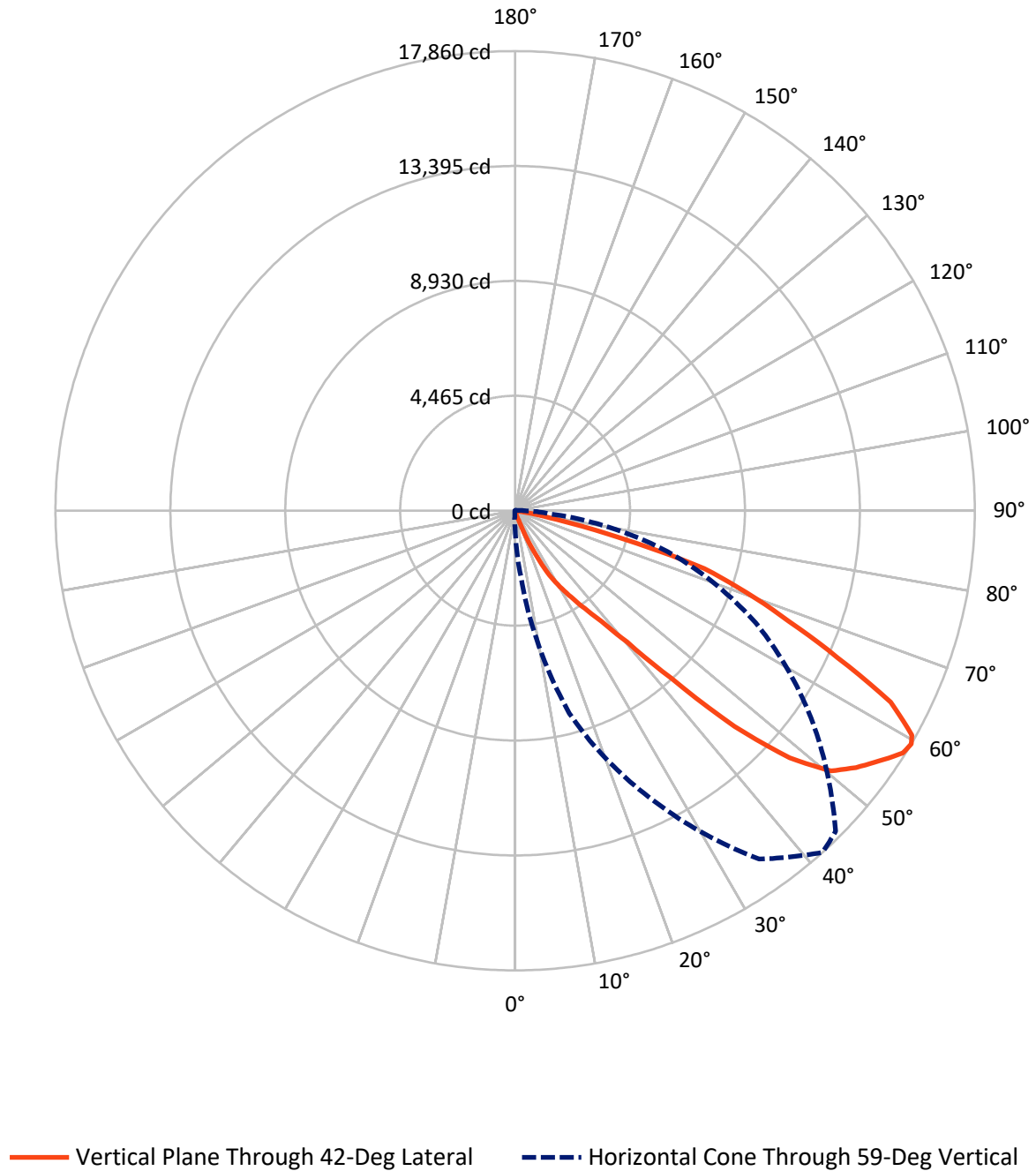


Based on 15 foot mounting height. Maximum calculated value = 19.3 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 31.4     | 0.0    | 31.4   |
|                    | % Fixture | 0.5      | 0.0    | 0.5    |
| <b>Street Side</b> | Lumens    | 6478.1   | 0.0    | 6478.1 |
|                    | % Fixture | 99.5     | 0.0    | 99.5   |
| <b>Total</b>       | Lumens    | 6509.5   | 0.0    | 6509.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.9    | 0.0       |
| 10°-20°   | 9.5    | 0.1       |
| 20°-30°   | 121.4  | 1.9       |
| 30°-40°   | 409.4  | 6.3       |
| 40°-50°   | 1236.5 | 19.0      |
| 50°-60°   | 2182.6 | 33.5      |
| 60°-70°   | 1921.9 | 29.5      |
| 70°-80°   | 611.7  | 9.4       |
| 80°-90°   | 14.6   | 0.2       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 6509.5 | 100.0     |
| 0°-180°   | 6509.5 | 100.0     |



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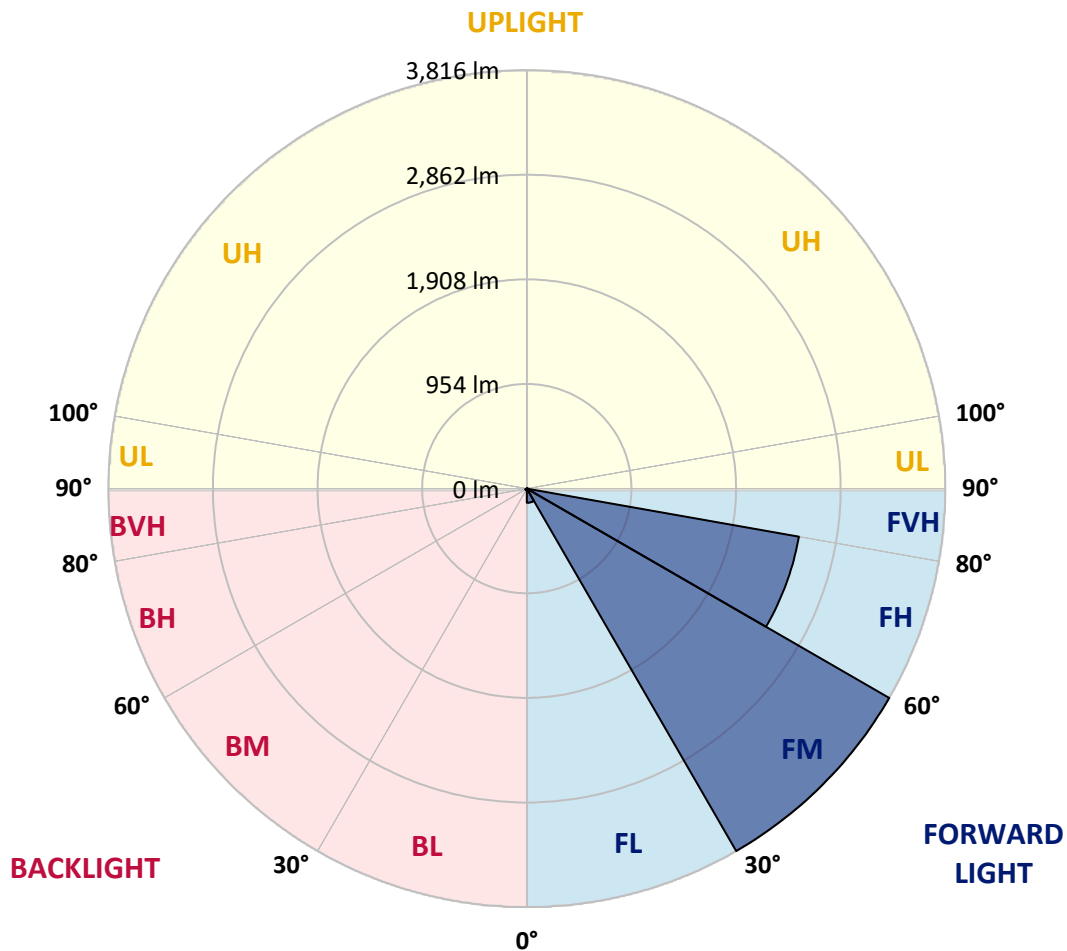
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 129.3  | 2.0       |                         |      |         |
| FM   | (30°-60°)   | 3815.7 | 58.6      |                         |      |         |
| FH   | (60°-80°)   | 2519.2 | 38.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 13.9   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 3.5    | 0.1       | B0/110                  |      |         |
| BM   | (30°-60°)   | 12.8   | 0.2       | B0/220                  |      |         |
| BH   | (60°-80°)   | 14.3   | 0.2       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.7    | 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-G2**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°     | 15°    | 25°     | 35°     | 42°     | 45°     | 55°     | 65°     | 75°    | 85°    |
|-------|-------|--------|--------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0°    | 18.4  | 18.4   | 18.4   | 18.4    | 18.4    | 18.4    | 18.4    | 18.4    | 18.4    | 18.4   | 18.4   |
| 2.5°  | 28.6  | 28.6   | 26.5   | 24.5    | 22.5    | 20.4    | 20.4    | 20.4    | 18.4    | 18.4   | 16.3   |
| 5°    | 32.7  | 32.7   | 30.6   | 28.6    | 28.6    | 26.5    | 26.5    | 24.5    | 22.5    | 22.5   | 20.4   |
| 7.5°  | 34.7  | 34.7   | 34.7   | 34.7    | 32.7    | 32.7    | 32.7    | 30.6    | 28.6    | 26.5   | 24.5   |
| 10°   | 36.7  | 38.8   | 40.8   | 40.8    | 40.8    | 40.8    | 40.8    | 38.8    | 34.7    | 32.7   | 28.6   |
| 12.5° | 40.8  | 42.9   | 46.9   | 51.0    | 51.0    | 53.1    | 51.0    | 49.0    | 44.9    | 38.8   | 32.7   |
| 15°   | 44.9  | 49.0   | 55.1   | 63.3    | 71.4    | 73.5    | 73.5    | 67.4    | 59.2    | 46.9   | 38.8   |
| 17.5° | 51.0  | 57.1   | 73.5   | 100.0   | 128.6   | 151.0   | 151.0   | 134.7   | 93.9    | 61.2   | 44.9   |
| 20°   | 55.1  | 67.4   | 118.4  | 240.8   | 367.4   | 461.3   | 442.9   | 391.9   | 210.2   | 95.9   | 49.0   |
| 22.5° | 61.2  | 85.7   | 251.0  | 632.7   | 979.7   | 1151.1  | 1110.3  | 842.9   | 471.5   | 171.4  | 59.2   |
| 25°   | 69.4  | 124.5  | 498.0  | 1185.8  | 1820.5  | 2006.2  | 1979.7  | 1573.6  | 859.2   | 287.8  | 75.5   |
| 27.5° | 85.7  | 183.7  | 798.0  | 1798.1  | 2685.9  | 2845.1  | 2834.9  | 2304.2  | 1373.6  | 463.3  | 98.0   |
| 30°   | 108.2 | 267.4  | 1183.7 | 2443.0  | 3259.4  | 3420.6  | 3369.6  | 2839.0  | 1853.2  | 708.2  | 126.5  |
| 32.5° | 134.7 | 373.5  | 1532.8 | 2918.6  | 3788.0  | 4000.3  | 3939.0  | 3304.3  | 2238.9  | 916.4  | 187.8  |
| 35°   | 175.5 | 477.6  | 1877.7 | 3339.0  | 4398.2  | 4667.6  | 4565.6  | 3783.9  | 2571.6  | 1151.1 | 226.5  |
| 37.5° | 195.9 | 538.8  | 2194.0 | 3796.2  | 5084.0  | 5451.4  | 5373.8  | 4390.1  | 2910.4  | 1451.1 | 277.6  |
| 40°   | 198.0 | 612.3  | 2522.6 | 4392.1  | 6053.4  | 6708.6  | 6569.8  | 5431.0  | 3541.0  | 1836.9 | 357.2  |
| 42.5° | 204.1 | 722.5  | 2949.2 | 5408.5  | 7957.6  | 8898.5  | 8741.4  | 7345.4  | 4971.7  | 2610.4 | 506.2  |
| 45°   | 232.7 | 930.7  | 3818.6 | 7308.6  | 10572.1 | 11951.8 | 11770.1 | 10012.9 | 6969.8  | 4065.6 | 863.3  |
| 47.5° | 332.7 | 1400.1 | 5343.2 | 9359.8  | 13245.7 | 14345.8 | 14300.9 | 12115.1 | 8780.1  | 5557.5 | 1463.4 |
| 50°   | 534.7 | 2149.1 | 7078.0 | 11084.4 | 14947.9 | 15892.8 | 15780.6 | 12992.7 | 9812.9  | 6575.9 | 1875.6 |
| 52.5° | 714.3 | 2865.5 | 8167.9 | 11719.1 | 15456.1 | 16582.7 | 16445.9 | 13313.1 | 10084.3 | 6875.9 | 1989.9 |
| 55°   | 759.2 | 3124.7 | 8492.4 | 11915.0 | 15792.8 | 17166.4 | 16968.4 | 13527.4 | 10119.0 | 6661.6 | 1800.1 |
| 57.5° | 736.8 | 2879.8 | 8282.2 | 12106.9 | 16262.3 | 17766.4 | 17503.2 | 13945.8 | 10235.3 | 6298.4 | 1498.1 |
| 59°   | 698.0 | 2577.7 | 8151.5 | 12260.0 | 16521.5 | 17860.3 | 17613.4 | 14037.6 | 10312.9 | 6133.0 | 1314.4 |
| 60°   | 653.1 | 2373.6 | 8049.5 | 12360.0 | 16505.1 | 17713.4 | 17458.2 | 13994.8 | 10343.5 | 5990.2 | 1226.6 |
| 62.5° | 504.1 | 1894.0 | 7902.5 | 12288.5 | 15474.5 | 16372.5 | 16227.6 | 12945.7 | 9894.5  | 5533.0 | 967.4  |
| 65°   | 391.9 | 1449.1 | 7363.7 | 10959.9 | 13168.2 | 13772.3 | 13727.4 | 10961.9 | 8327.1  | 4769.7 | 698.0  |
| 67.5° | 310.2 | 1057.2 | 6226.9 | 8876.1  | 10594.5 | 11453.8 | 11421.1 | 8898.5  | 6320.8  | 3645.1 | 502.1  |
| 70°   | 253.1 | 753.1  | 4269.7 | 6692.3  | 8474.0  | 9555.7  | 9508.8  | 7161.7  | 4684.0  | 2312.4 | 365.3  |
| 72.5° | 214.3 | 481.7  | 2590.0 | 5045.2  | 7071.9  | 7690.3  | 7553.5  | 5777.9  | 3406.3  | 1259.3 | 289.8  |
| 75°   | 181.6 | 295.9  | 1283.8 | 3145.1  | 4212.5  | 4208.4  | 4071.7  | 3059.4  | 1828.7  | 616.4  | 230.6  |
| 77.5° | 146.9 | 208.2  | 504.1  | 863.3   | 1328.7  | 1645.0  | 1618.5  | 1083.7  | 547.0   | 179.6  | 142.9  |
| 80°   | 95.9  | 98.0   | 134.7  | 236.7   | 365.3   | 404.1   | 459.2   | 330.6   | 159.2   | 85.7   | 59.2   |
| 82.5° | 42.9  | 46.9   | 61.2   | 77.6    | 77.6    | 71.4    | 63.3    | 46.9    | 34.7    | 28.6   | 14.3   |
| 85°   | 10.2  | 14.3   | 10.2   | 12.2    | 10.2    | 8.2     | 8.2     | 4.1     | 0.0     | 0.0    | 0.0    |
| 87.5° | 2.0   | 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):**

|       | 90°   | 95°   | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| 0°    | 18.4  | 18.4  | 18.4 | 18.4 | 18.4 | 18.4 | 18.4 | 18.4 | 18.4 | 18.4 | 18.4 |
| 2.5°  | 16.3  | 16.3  | 16.3 | 14.3 | 14.3 | 14.3 | 12.2 | 12.2 | 12.2 | 10.2 | 10.2 |
| 5°    | 20.4  | 18.4  | 16.3 | 16.3 | 14.3 | 14.3 | 12.2 | 10.2 | 10.2 | 10.2 | 8.2  |
| 7.5°  | 22.5  | 20.4  | 18.4 | 16.3 | 14.3 | 12.2 | 12.2 | 10.2 | 8.2  | 8.2  | 8.2  |
| 10°   | 26.5  | 24.5  | 20.4 | 16.3 | 14.3 | 12.2 | 10.2 | 10.2 | 8.2  | 6.1  | 6.1  |
| 12.5° | 30.6  | 26.5  | 22.5 | 18.4 | 14.3 | 12.2 | 10.2 | 10.2 | 8.2  | 6.1  | 4.1  |
| 15°   | 34.7  | 30.6  | 24.5 | 18.4 | 14.3 | 12.2 | 10.2 | 10.2 | 6.1  | 4.1  | 2.0  |
| 17.5° | 38.8  | 32.7  | 24.5 | 20.4 | 14.3 | 12.2 | 10.2 | 8.2  | 4.1  | 2.0  | 0.0  |
| 20°   | 40.8  | 34.7  | 26.5 | 20.4 | 14.3 | 12.2 | 10.2 | 6.1  | 2.0  | 0.0  | 0.0  |
| 22.5° | 44.9  | 38.8  | 28.6 | 20.4 | 14.3 | 10.2 | 6.1  | 2.0  | 0.0  | 0.0  | 0.0  |
| 25°   | 53.1  | 40.8  | 28.6 | 20.4 | 14.3 | 10.2 | 4.1  | 0.0  | 0.0  | 0.0  | 0.0  |
| 27.5° | 59.2  | 44.9  | 28.6 | 20.4 | 14.3 | 8.2  | 2.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 30°   | 69.4  | 49.0  | 30.6 | 20.4 | 14.3 | 6.1  | 2.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 32.5° | 85.7  | 53.1  | 30.6 | 20.4 | 12.2 | 6.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 35°   | 104.1 | 61.2  | 30.6 | 20.4 | 12.2 | 6.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 37.5° | 106.1 | 65.3  | 30.6 | 20.4 | 12.2 | 4.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 40°   | 110.2 | 61.2  | 32.7 | 20.4 | 12.2 | 4.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 42.5° | 126.5 | 57.1  | 34.7 | 20.4 | 12.2 | 4.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 45°   | 187.8 | 59.2  | 34.7 | 22.5 | 12.2 | 6.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 47.5° | 326.6 | 61.2  | 32.7 | 22.5 | 12.2 | 6.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 50°   | 418.4 | 71.4  | 32.7 | 24.5 | 14.3 | 4.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 52.5° | 444.9 | 83.7  | 32.7 | 26.5 | 18.4 | 2.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 55°   | 432.7 | 98.0  | 34.7 | 28.6 | 22.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 57.5° | 400.0 | 106.1 | 36.7 | 30.6 | 24.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 59°   | 365.3 | 112.3 | 42.9 | 32.7 | 24.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 60°   | 336.8 | 118.4 | 44.9 | 34.7 | 24.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 62.5° | 271.4 | 126.5 | 49.0 | 40.8 | 20.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 65°   | 236.7 | 132.7 | 51.0 | 44.9 | 18.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 67.5° | 216.3 | 136.7 | 55.1 | 46.9 | 16.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 70°   | 200.0 | 134.7 | 59.2 | 44.9 | 14.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 72.5° | 181.6 | 128.6 | 71.4 | 40.8 | 12.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 75°   | 163.3 | 116.3 | 77.6 | 36.7 | 8.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 77.5° | 118.4 | 98.0  | 71.4 | 32.7 | 4.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 80°   | 51.0  | 53.1  | 51.0 | 24.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 82.5° | 10.2  | 12.2  | 10.2 | 6.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 85°   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 87.5° | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 90°   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |



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CATALOG NUMBER: NVN-SA2B-727-U-LBC

**CANDELA DISTRIBUTION (continued):**

|       | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0°    | 18.4 | 18.4 | 18.4 | 18.4 | 18.4 | 18.4 | 18.4 | 18.4 | 18.4 | 18.4 | 18.4 |
| 2.5°  | 10.2 | 10.2 | 10.2 | 10.2 | 12.2 | 12.2 | 16.3 | 20.4 | 24.5 | 26.5 | 26.5 |
| 5°    | 8.2  | 8.2  | 8.2  | 8.2  | 8.2  | 10.2 | 12.2 | 16.3 | 22.5 | 24.5 | 24.5 |
| 7.5°  | 6.1  | 6.1  | 6.1  | 6.1  | 6.1  | 6.1  | 10.2 | 14.3 | 20.4 | 22.5 | 24.5 |
| 10°   | 6.1  | 4.1  | 4.1  | 2.0  | 2.0  | 4.1  | 6.1  | 12.2 | 18.4 | 20.4 | 22.5 |
| 12.5° | 4.1  | 2.0  | 2.0  | 0.0  | 0.0  | 2.0  | 4.1  | 10.2 | 16.3 | 18.4 | 20.4 |
| 15°   | 2.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | 8.2  | 14.3 | 16.3 | 20.4 |
| 17.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.1  | 12.2 | 16.3 | 18.4 |
| 20°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.1  | 10.2 | 14.3 | 16.3 |
| 22.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | 8.2  | 12.2 | 14.3 |
| 25°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.1  | 8.2  | 10.2 |
| 27.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.1  | 6.1  | 8.2  |
| 30°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.1  | 6.1  | 8.2  |
| 32.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | 4.1  | 6.1  |
| 35°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | 4.1  | 6.1  |
| 37.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | 4.1  | 4.1  |
| 40°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | 4.1  |
| 42.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | 4.1  |
| 45°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | 4.1  |
| 47.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | 4.1  |
| 50°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | 4.1  |
| 52.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | 2.0  |
| 55°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | 2.0  |
| 57.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  |
| 59°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  |
| 60°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  |
| 62.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  |
| 65°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  |
| 67.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  |
| 70°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  |
| 72.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  |
| 75°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | 2.0  |
| 77.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | 4.1  |
| 80°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | 4.1  |
| 82.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | 2.0  |
| 85°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | 2.0  |
| 87.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | 2.0  |
| 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: P1066722

CATALOG NUMBER: NVN-SA2B-727-U-LBC

**CANDELA DISTRIBUTION (continued):**

|       | 285° | 295° | 305° | 315° | 318° | 325° | 335° | 345° | 355°  | 360°  |
|-------|------|------|------|------|------|------|------|------|-------|-------|
| 0°    | 18.4 | 18.4 | 18.4 | 18.4 | 18.4 | 18.4 | 18.4 | 18.4 | 18.4  | 18.4  |
| 2.5°  | 28.6 | 28.6 | 26.5 | 24.5 | 24.5 | 24.5 | 26.5 | 28.6 | 28.6  | 28.6  |
| 5°    | 26.5 | 26.5 | 24.5 | 24.5 | 24.5 | 24.5 | 26.5 | 30.6 | 32.7  | 32.7  |
| 7.5°  | 26.5 | 26.5 | 24.5 | 24.5 | 24.5 | 24.5 | 26.5 | 30.6 | 32.7  | 34.7  |
| 10°   | 24.5 | 24.5 | 24.5 | 24.5 | 22.5 | 24.5 | 26.5 | 30.6 | 36.7  | 36.7  |
| 12.5° | 24.5 | 24.5 | 24.5 | 24.5 | 22.5 | 24.5 | 28.6 | 32.7 | 38.8  | 40.8  |
| 15°   | 24.5 | 24.5 | 24.5 | 22.5 | 22.5 | 24.5 | 28.6 | 34.7 | 40.8  | 44.9  |
| 17.5° | 22.5 | 24.5 | 24.5 | 22.5 | 22.5 | 24.5 | 28.6 | 34.7 | 44.9  | 51.0  |
| 20°   | 20.4 | 22.5 | 24.5 | 22.5 | 22.5 | 22.5 | 28.6 | 34.7 | 46.9  | 55.1  |
| 22.5° | 18.4 | 20.4 | 22.5 | 22.5 | 20.4 | 22.5 | 28.6 | 36.7 | 51.0  | 61.2  |
| 25°   | 16.3 | 18.4 | 18.4 | 20.4 | 20.4 | 22.5 | 28.6 | 36.7 | 53.1  | 69.4  |
| 27.5° | 12.2 | 14.3 | 16.3 | 18.4 | 18.4 | 22.5 | 28.6 | 38.8 | 57.1  | 85.7  |
| 30°   | 10.2 | 12.2 | 14.3 | 16.3 | 18.4 | 22.5 | 28.6 | 38.8 | 61.2  | 108.2 |
| 32.5° | 10.2 | 12.2 | 14.3 | 16.3 | 18.4 | 20.4 | 28.6 | 40.8 | 67.4  | 134.7 |
| 35°   | 8.2  | 10.2 | 12.2 | 16.3 | 16.3 | 20.4 | 28.6 | 40.8 | 73.5  | 175.5 |
| 37.5° | 8.2  | 10.2 | 12.2 | 16.3 | 16.3 | 20.4 | 28.6 | 40.8 | 89.8  | 195.9 |
| 40°   | 6.1  | 8.2  | 10.2 | 16.3 | 16.3 | 20.4 | 30.6 | 42.9 | 91.8  | 198.0 |
| 42.5° | 6.1  | 8.2  | 10.2 | 14.3 | 16.3 | 20.4 | 30.6 | 42.9 | 85.7  | 204.1 |
| 45°   | 6.1  | 8.2  | 10.2 | 16.3 | 18.4 | 22.5 | 30.6 | 44.9 | 83.7  | 232.7 |
| 47.5° | 6.1  | 8.2  | 10.2 | 16.3 | 20.4 | 22.5 | 30.6 | 44.9 | 85.7  | 332.7 |
| 50°   | 6.1  | 8.2  | 10.2 | 16.3 | 22.5 | 22.5 | 30.6 | 44.9 | 93.9  | 534.7 |
| 52.5° | 4.1  | 6.1  | 8.2  | 14.3 | 18.4 | 24.5 | 32.7 | 42.9 | 100.0 | 714.3 |
| 55°   | 4.1  | 4.1  | 6.1  | 12.2 | 16.3 | 26.5 | 34.7 | 42.9 | 116.3 | 759.2 |
| 57.5° | 4.1  | 4.1  | 6.1  | 10.2 | 14.3 | 28.6 | 36.7 | 42.9 | 134.7 | 736.8 |
| 59°   | 4.1  | 4.1  | 4.1  | 10.2 | 12.2 | 28.6 | 36.7 | 44.9 | 136.7 | 698.0 |
| 60°   | 4.1  | 4.1  | 4.1  | 8.2  | 12.2 | 28.6 | 38.8 | 46.9 | 138.8 | 653.1 |
| 62.5° | 2.0  | 2.0  | 2.0  | 8.2  | 10.2 | 28.6 | 42.9 | 57.1 | 142.9 | 504.1 |
| 65°   | 4.1  | 4.1  | 2.0  | 6.1  | 10.2 | 24.5 | 49.0 | 61.2 | 144.9 | 391.9 |
| 67.5° | 4.1  | 4.1  | 4.1  | 8.2  | 10.2 | 24.5 | 51.0 | 63.3 | 144.9 | 310.2 |
| 70°   | 4.1  | 4.1  | 4.1  | 8.2  | 12.2 | 24.5 | 51.0 | 65.3 | 142.9 | 253.1 |
| 72.5° | 4.1  | 4.1  | 4.1  | 8.2  | 12.2 | 22.5 | 46.9 | 67.4 | 136.7 | 214.3 |
| 75°   | 4.1  | 4.1  | 4.1  | 6.1  | 10.2 | 20.4 | 44.9 | 73.5 | 124.5 | 181.6 |
| 77.5° | 4.1  | 4.1  | 4.1  | 4.1  | 8.2  | 16.3 | 40.8 | 81.6 | 110.2 | 146.9 |
| 80°   | 6.1  | 4.1  | 4.1  | 4.1  | 6.1  | 14.3 | 38.8 | 79.6 | 91.8  | 95.9  |
| 82.5° | 6.1  | 4.1  | 4.1  | 2.0  | 4.1  | 10.2 | 30.6 | 61.2 | 46.9  | 42.9  |
| 85°   | 4.1  | 4.1  | 4.1  | 2.0  | 2.0  | 6.1  | 14.3 | 18.4 | 14.3  | 10.2  |
| 87.5° | 4.1  | 4.1  | 4.1  | 2.0  | 2.0  | 2.0  | 2.0  | 2.0  | 2.0   | 2.0   |
| 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>$\text{W}^\wedge/\text{nm}$ | 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                             |                   |                                      |                                |

REPORT NUMBER: SP1-2407-184-3

### Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.02

| $\lambda$<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                             |                   |                                      |                                |

REPORT NUMBER: SP1-2407-184-3

### 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

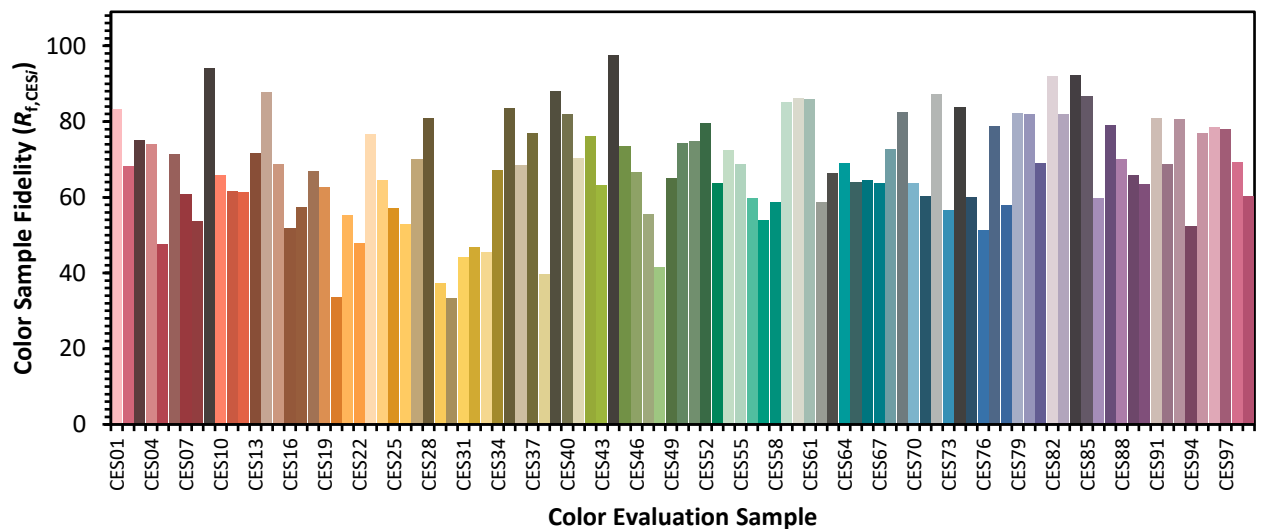


### Color Vector Graphics

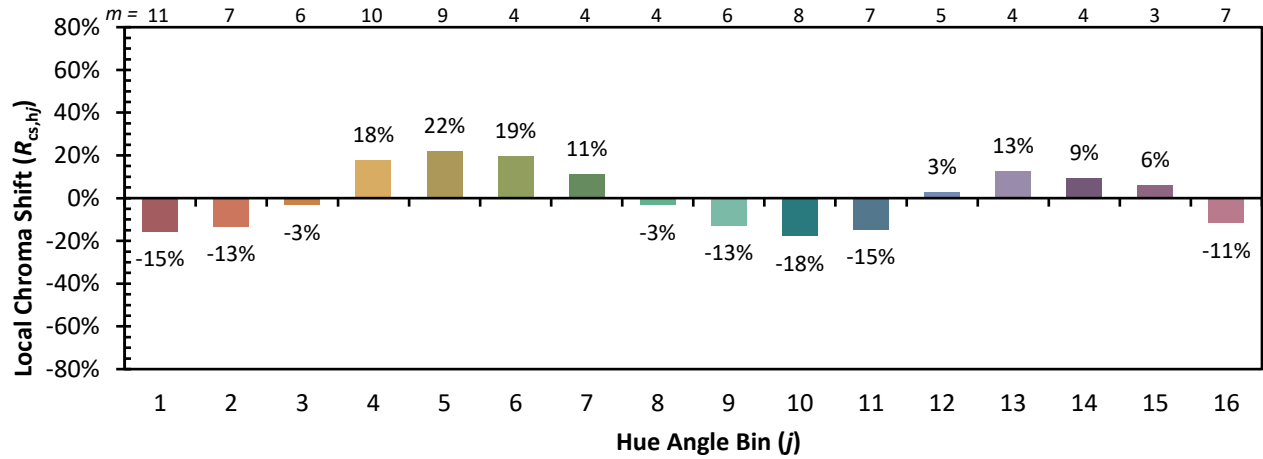


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

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