

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: P1066749

Luminaire Tested: **NVN-SA3A-730-U-LBC**

Issue Date: 08/07/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1066749  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 08/07/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SA3A-730-U-LBC  
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 3xLight Square PACKAGE  
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (42) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8440 lumens  
Efficiency: N/A  
Efficacy: 102.9 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): 82  
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

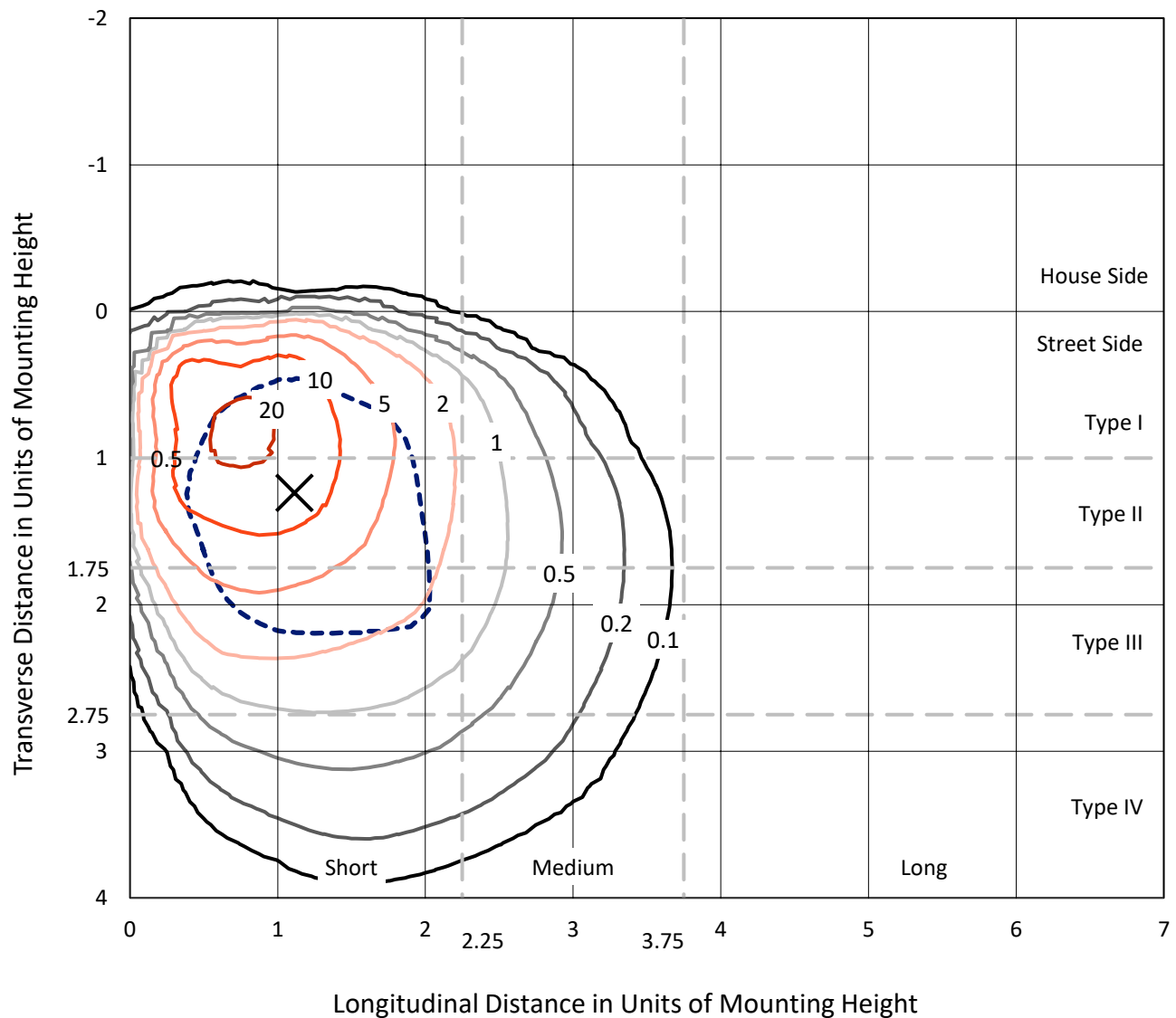


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

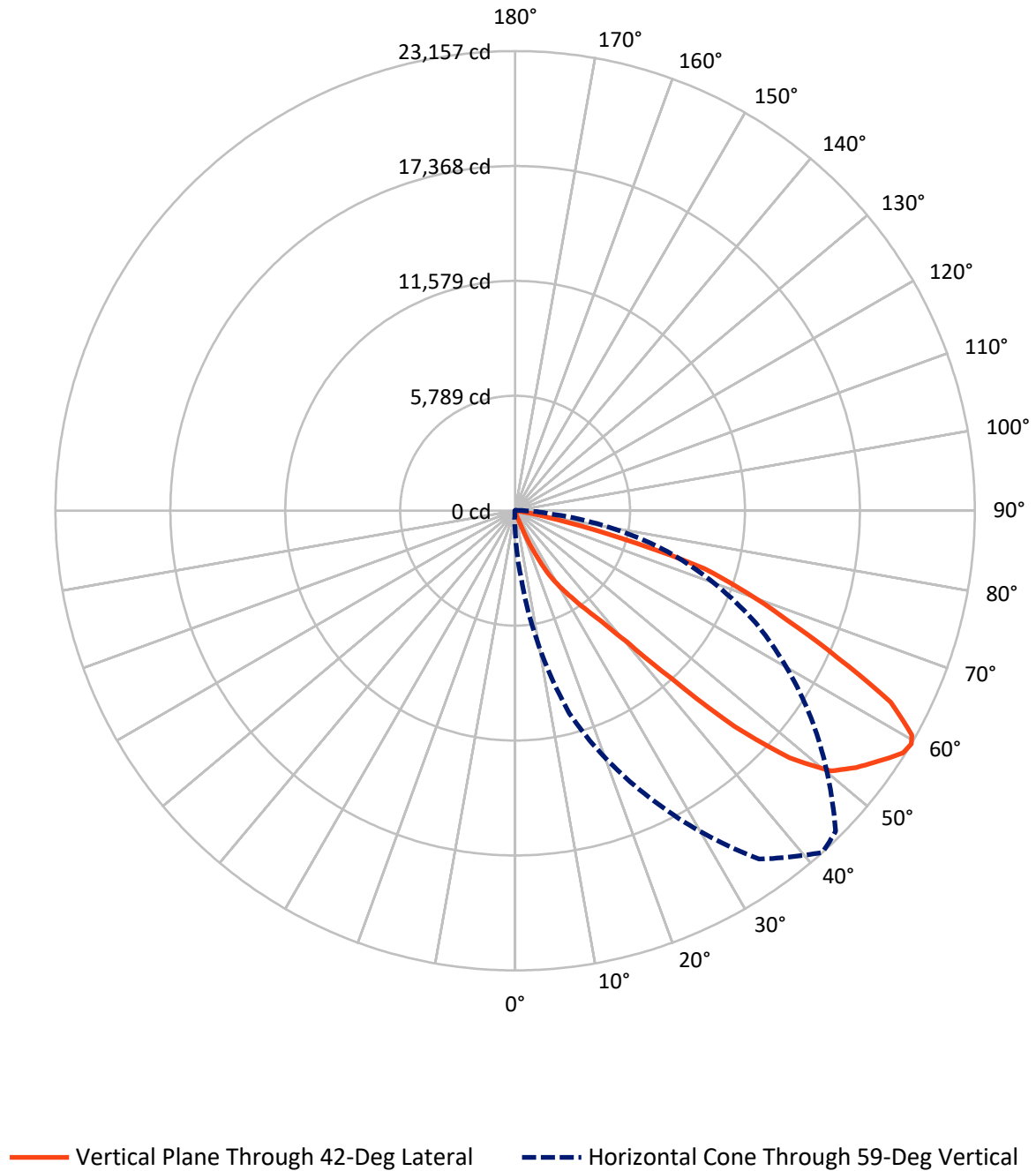


Based on 15 foot mounting height. Maximum calculated value = 25.1 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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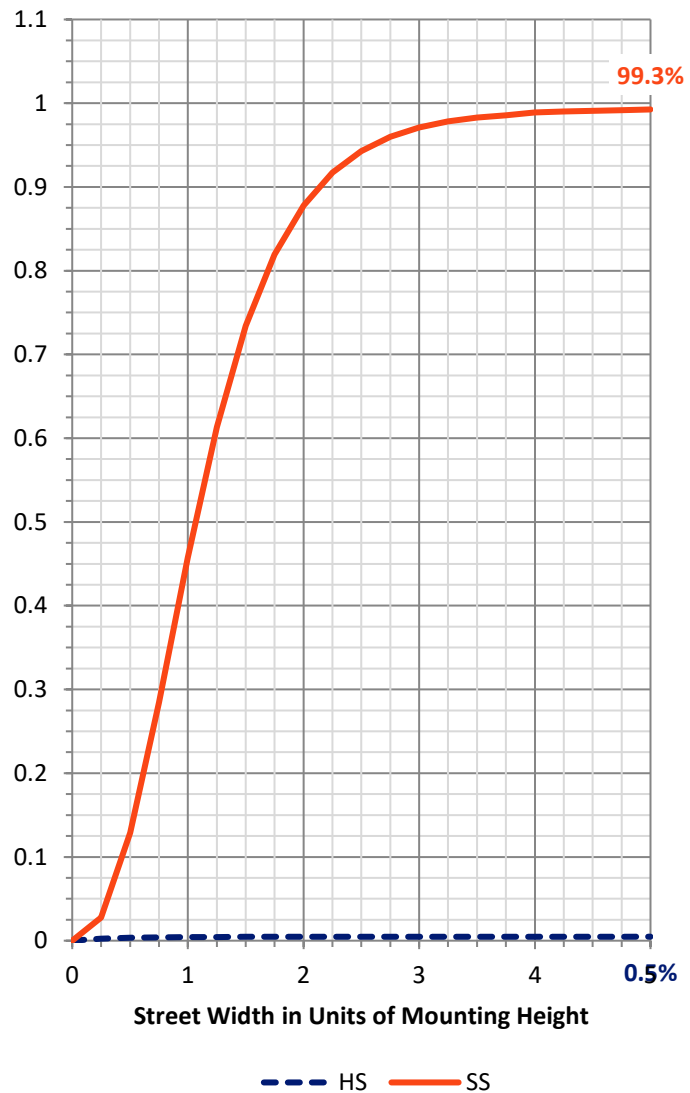
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 40.7     | 0.0    | 40.7   |
|                    | % Fixture | 0.5      | 0.0    | 0.5    |
| <b>Street Side</b> | Lumens    | 8399.3   | 0.0    | 8399.3 |
|                    | % Fixture | 99.5     | 0.0    | 99.5   |
| <b>Total</b>       | Lumens    | 8440.0   | 0.0    | 8440.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.5    | 0.0       |
| 10°-20°   | 12.3   | 0.1       |
| 20°-30°   | 157.4  | 1.9       |
| 30°-40°   | 530.8  | 6.3       |
| 40°-50°   | 1603.1 | 19.0      |
| 50°-60°   | 2829.9 | 33.5      |
| 60°-70°   | 2491.8 | 29.5      |
| 70°-80°   | 793.2  | 9.4       |
| 80°-90°   | 19.0   | 0.2       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 8440.0 | 100.0     |
| 0°-180°   | 8440.0 | 100.0     |



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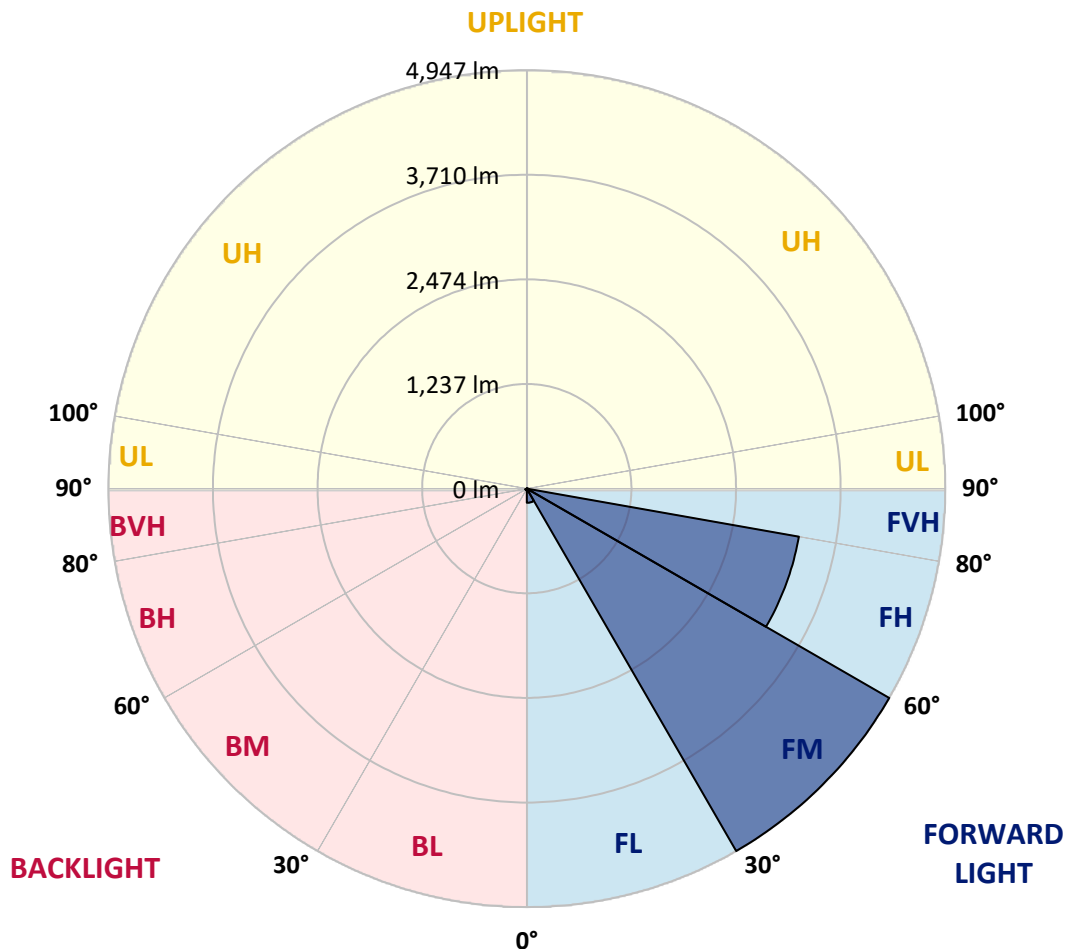
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 167.7  | 2.0       |                         |      |         |
| FM   | (30°-60°)   | 4947.2 | 58.6      |                         |      |         |
| FH   | (60°-80°)   | 3266.4 | 38.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 18.1   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 4.5    | 0.1       | B0/110                  |      |         |
| BM   | (30°-60°)   | 16.6   | 0.2       | B0/220                  |      |         |
| BH   | (60°-80°)   | 18.6   | 0.2       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.9    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G2**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°     | 15°     | 25°     | 35°     | 42°     | 45°     | 55°     | 65°     | 75°    | 85°    |
|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0°    | 23.8  | 23.8   | 23.8    | 23.8    | 23.8    | 23.8    | 23.8    | 23.8    | 23.8    | 23.8   | 23.8   |
| 2.5°  | 37.0  | 37.0   | 34.4    | 31.8    | 29.1    | 26.5    | 26.5    | 26.5    | 23.8    | 23.8   | 21.2   |
| 5°    | 42.3  | 42.3   | 39.7    | 37.0    | 37.0    | 34.4    | 34.4    | 31.8    | 29.1    | 29.1   | 26.5   |
| 7.5°  | 45.0  | 45.0   | 45.0    | 45.0    | 42.3    | 42.3    | 42.3    | 39.7    | 37.0    | 34.4   | 31.8   |
| 10°   | 47.6  | 50.3   | 52.9    | 52.9    | 52.9    | 52.9    | 52.9    | 50.3    | 45.0    | 42.3   | 37.0   |
| 12.5° | 52.9  | 55.6   | 60.9    | 66.2    | 66.2    | 68.8    | 66.2    | 63.5    | 58.2    | 50.3   | 42.3   |
| 15°   | 58.2  | 63.5   | 71.4    | 82.0    | 92.6    | 95.3    | 95.3    | 87.3    | 76.7    | 60.9   | 50.3   |
| 17.5° | 66.2  | 74.1   | 95.3    | 129.7   | 166.7   | 195.8   | 195.8   | 174.7   | 121.7   | 79.4   | 58.2   |
| 20°   | 71.4  | 87.3   | 153.5   | 312.3   | 476.3   | 598.0   | 574.2   | 508.1   | 272.6   | 124.4  | 63.5   |
| 22.5° | 79.4  | 111.1  | 325.5   | 820.3   | 1270.2  | 1492.5  | 1439.5  | 1092.9  | 611.3   | 222.3  | 76.7   |
| 25°   | 90.0  | 161.4  | 645.7   | 1537.5  | 2360.4  | 2601.2  | 2566.8  | 2040.2  | 1114.1  | 373.1  | 97.9   |
| 27.5° | 111.1 | 238.2  | 1034.7  | 2331.3  | 3482.4  | 3688.8  | 3675.6  | 2987.6  | 1780.9  | 600.7  | 127.0  |
| 30°   | 140.2 | 346.7  | 1534.8  | 3167.5  | 4226.0  | 4435.1  | 4368.9  | 3680.9  | 2402.8  | 918.2  | 164.1  |
| 32.5° | 174.7 | 484.3  | 1987.3  | 3784.1  | 4911.4  | 5186.6  | 5107.2  | 4284.2  | 2902.9  | 1188.2 | 243.5  |
| 35°   | 227.6 | 619.2  | 2434.5  | 4329.2  | 5702.6  | 6051.9  | 5919.6  | 4906.1  | 3334.2  | 1492.5 | 293.7  |
| 37.5° | 254.0 | 698.6  | 2844.7  | 4922.0  | 6591.7  | 7068.1  | 6967.5  | 5692.0  | 3773.5  | 1881.5 | 359.9  |
| 40°   | 256.7 | 793.9  | 3270.7  | 5694.7  | 7848.7  | 8698.1  | 8518.2  | 7041.6  | 4591.2  | 2381.6 | 463.1  |
| 42.5° | 264.6 | 936.8  | 3823.8  | 7012.5  | 10317.6 | 11537.5 | 11333.8 | 9523.8  | 6446.2  | 3384.5 | 656.3  |
| 45°   | 301.7 | 1206.7 | 4951.1  | 9476.1  | 13707.4 | 15496.3 | 15260.8 | 12982.4 | 9036.8  | 5271.3 | 1119.4 |
| 47.5° | 431.3 | 1815.3 | 6927.8  | 12135.6 | 17174.0 | 18600.3 | 18542.1 | 15708.0 | 11384.0 | 7205.7 | 1897.3 |
| 50°   | 693.3 | 2786.5 | 9177.1  | 14371.6 | 19380.9 | 20606.1 | 20460.6 | 16845.8 | 12723.0 | 8526.1 | 2431.9 |
| 52.5° | 926.2 | 3715.3 | 10590.2 | 15194.6 | 20039.8 | 21500.5 | 21323.3 | 17261.3 | 13075.0 | 8915.1 | 2580.1 |
| 55°   | 984.4 | 4051.4 | 11010.9 | 15448.6 | 20476.5 | 22257.4 | 22000.7 | 17539.2 | 13120.0 | 8637.3 | 2334.0 |
| 57.5° | 955.3 | 3733.8 | 10738.4 | 15697.4 | 21085.1 | 23035.4 | 22694.0 | 18081.6 | 13270.8 | 8166.2 | 1942.3 |
| 59°   | 905.0 | 3342.2 | 10569.0 | 15895.9 | 21421.2 | 23157.1 | 22836.9 | 18200.7 | 13371.4 | 7951.9 | 1704.2 |
| 60°   | 846.8 | 3077.6 | 10436.7 | 16025.5 | 21400.0 | 22966.6 | 22635.8 | 18145.1 | 13411.0 | 7766.7 | 1590.4 |
| 62.5° | 653.6 | 2455.7 | 10246.2 | 15932.9 | 20063.7 | 21228.0 | 21040.1 | 16785.0 | 12828.9 | 7173.9 | 1254.3 |
| 65°   | 508.1 | 1878.8 | 9547.6  | 14210.2 | 17073.4 | 17856.7 | 17798.5 | 14212.9 | 10796.6 | 6184.2 | 905.0  |
| 67.5° | 402.2 | 1370.7 | 8073.6  | 11508.4 | 13736.5 | 14850.6 | 14808.3 | 11537.5 | 8195.3  | 4726.2 | 651.0  |
| 70°   | 328.1 | 976.5  | 5535.9  | 8677.0  | 10987.1 | 12389.6 | 12328.7 | 9285.6  | 6073.1  | 2998.2 | 473.7  |
| 72.5° | 277.9 | 624.5  | 3358.1  | 6541.5  | 9169.2  | 9971.0  | 9793.7  | 7491.5  | 4416.5  | 1632.7 | 375.8  |
| 75°   | 235.5 | 383.7  | 1664.5  | 4077.8  | 5461.8  | 5456.5  | 5279.2  | 3966.7  | 2371.0  | 799.2  | 299.0  |
| 77.5° | 190.5 | 269.9  | 653.6   | 1119.4  | 1722.7  | 2132.9  | 2098.5  | 1405.1  | 709.2   | 232.9  | 185.2  |
| 80°   | 124.4 | 127.0  | 174.7   | 307.0   | 473.7   | 524.0   | 595.4   | 428.7   | 206.4   | 111.1  | 76.7   |
| 82.5° | 55.6  | 60.9   | 79.4    | 100.6   | 100.6   | 92.6    | 82.0    | 60.9    | 45.0    | 37.0   | 18.5   |
| 85°   | 13.2  | 18.5   | 13.2    | 15.9    | 13.2    | 10.6    | 10.6    | 5.3     | 0.0     | 0.0    | 0.0    |
| 87.5° | 2.6   | 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°    | 23.8  | 23.8  | 23.8  | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 |
| 2.5°  | 21.2  | 21.2  | 21.2  | 18.5 | 18.5 | 18.5 | 15.9 | 15.9 | 15.9 | 13.2 | 13.2 |
| 5°    | 26.5  | 23.8  | 21.2  | 21.2 | 18.5 | 18.5 | 15.9 | 13.2 | 13.2 | 13.2 | 10.6 |
| 7.5°  | 29.1  | 26.5  | 23.8  | 21.2 | 18.5 | 15.9 | 15.9 | 13.2 | 10.6 | 10.6 | 10.6 |
| 10°   | 34.4  | 31.8  | 26.5  | 21.2 | 18.5 | 15.9 | 13.2 | 13.2 | 10.6 | 7.9  | 7.9  |
| 12.5° | 39.7  | 34.4  | 29.1  | 23.8 | 18.5 | 15.9 | 13.2 | 13.2 | 10.6 | 7.9  | 5.3  |
| 15°   | 45.0  | 39.7  | 31.8  | 23.8 | 18.5 | 15.9 | 13.2 | 13.2 | 7.9  | 5.3  | 2.6  |
| 17.5° | 50.3  | 42.3  | 31.8  | 26.5 | 18.5 | 15.9 | 13.2 | 10.6 | 5.3  | 2.6  | 0.0  |
| 20°   | 52.9  | 45.0  | 34.4  | 26.5 | 18.5 | 15.9 | 13.2 | 7.9  | 2.6  | 0.0  | 0.0  |
| 22.5° | 58.2  | 50.3  | 37.0  | 26.5 | 18.5 | 13.2 | 7.9  | 2.6  | 0.0  | 0.0  | 0.0  |
| 25°   | 68.8  | 52.9  | 37.0  | 26.5 | 18.5 | 13.2 | 5.3  | 0.0  | 0.0  | 0.0  | 0.0  |
| 27.5° | 76.7  | 58.2  | 37.0  | 26.5 | 18.5 | 10.6 | 2.6  | 0.0  | 0.0  | 0.0  | 0.0  |
| 30°   | 90.0  | 63.5  | 39.7  | 26.5 | 18.5 | 7.9  | 2.6  | 0.0  | 0.0  | 0.0  | 0.0  |
| 32.5° | 111.1 | 68.8  | 39.7  | 26.5 | 15.9 | 7.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 35°   | 135.0 | 79.4  | 39.7  | 26.5 | 15.9 | 7.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 37.5° | 137.6 | 84.7  | 39.7  | 26.5 | 15.9 | 5.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 40°   | 142.9 | 79.4  | 42.3  | 26.5 | 15.9 | 5.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 42.5° | 164.1 | 74.1  | 45.0  | 26.5 | 15.9 | 5.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 45°   | 243.5 | 76.7  | 45.0  | 29.1 | 15.9 | 7.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 47.5° | 423.4 | 79.4  | 42.3  | 29.1 | 15.9 | 7.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 50°   | 542.5 | 92.6  | 42.3  | 31.8 | 18.5 | 5.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 52.5° | 576.9 | 108.5 | 42.3  | 34.4 | 23.8 | 2.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 55°   | 561.0 | 127.0 | 45.0  | 37.0 | 29.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 57.5° | 518.7 | 137.6 | 47.6  | 39.7 | 31.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 59°   | 473.7 | 145.5 | 55.6  | 42.3 | 31.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 60°   | 436.6 | 153.5 | 58.2  | 45.0 | 31.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 62.5° | 351.9 | 164.1 | 63.5  | 52.9 | 26.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 65°   | 307.0 | 172.0 | 66.2  | 58.2 | 23.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 67.5° | 280.5 | 177.3 | 71.4  | 60.9 | 21.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 70°   | 259.3 | 174.7 | 76.7  | 58.2 | 18.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 72.5° | 235.5 | 166.7 | 92.6  | 52.9 | 15.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 75°   | 211.7 | 150.8 | 100.6 | 47.6 | 10.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 77.5° | 153.5 | 127.0 | 92.6  | 42.3 | 5.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 80°   | 66.2  | 68.8  | 66.2  | 31.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 82.5° | 13.2  | 15.9  | 13.2  | 7.9  | 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°    | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 |
| 2.5°  | 13.2 | 13.2 | 13.2 | 13.2 | 15.9 | 15.9 | 21.2 | 26.5 | 31.8 | 34.4 | 34.4 |
| 5°    | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 13.2 | 15.9 | 21.2 | 29.1 | 31.8 | 31.8 |
| 7.5°  | 7.9  | 7.9  | 7.9  | 7.9  | 7.9  | 7.9  | 13.2 | 18.5 | 26.5 | 29.1 | 31.8 |
| 10°   | 7.9  | 5.3  | 5.3  | 2.6  | 2.6  | 5.3  | 7.9  | 15.9 | 23.8 | 26.5 | 29.1 |
| 12.5° | 5.3  | 2.6  | 2.6  | 0.0  | 0.0  | 2.6  | 5.3  | 13.2 | 21.2 | 23.8 | 26.5 |
| 15°   | 2.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | 10.6 | 18.5 | 21.2 | 26.5 |
| 17.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.9  | 15.9 | 21.2 | 23.8 |
| 20°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.3  | 13.2 | 18.5 | 21.2 |
| 22.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | 10.6 | 15.9 | 18.5 |
| 25°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.9  | 10.6 | 13.2 |
| 27.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.3  | 7.9  | 10.6 |
| 30°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.3  | 7.9  | 10.6 |
| 32.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | 5.3  | 7.9  |
| 35°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | 5.3  | 7.9  |
| 37.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | 5.3  | 5.3  |
| 40°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | 5.3  |
| 42.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | 5.3  |
| 45°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | 5.3  |
| 47.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | 5.3  |
| 50°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | 5.3  |
| 52.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | 2.6  |
| 55°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | 2.6  |
| 57.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  |
| 59°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  |
| 60°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  |
| 62.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  |
| 65°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  |
| 67.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  |
| 70°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  |
| 72.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  |
| 75°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | 2.6  |
| 77.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | 5.3  |
| 80°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | 5.3  |
| 82.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | 2.6  |
| 85°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | 2.6  |
| 87.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | 2.6  |
| 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: P1066749

CATALOG NUMBER: NVN-SA3A-730-U-LBC

**CANDELA DISTRIBUTION (continued):**

|       | 285° | 295° | 305° | 315° | 318° | 325° | 335° | 345°  | 355°  | 360°  |
|-------|------|------|------|------|------|------|------|-------|-------|-------|
| 0°    | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 | 23.8  | 23.8  | 23.8  |
| 2.5°  | 37.0 | 37.0 | 34.4 | 31.8 | 31.8 | 31.8 | 34.4 | 37.0  | 37.0  | 37.0  |
| 5°    | 34.4 | 34.4 | 31.8 | 31.8 | 31.8 | 31.8 | 34.4 | 39.7  | 42.3  | 42.3  |
| 7.5°  | 34.4 | 34.4 | 31.8 | 31.8 | 31.8 | 31.8 | 34.4 | 39.7  | 42.3  | 45.0  |
| 10°   | 31.8 | 31.8 | 31.8 | 31.8 | 29.1 | 31.8 | 34.4 | 39.7  | 47.6  | 47.6  |
| 12.5° | 31.8 | 31.8 | 31.8 | 31.8 | 29.1 | 31.8 | 37.0 | 42.3  | 50.3  | 52.9  |
| 15°   | 31.8 | 31.8 | 31.8 | 29.1 | 29.1 | 31.8 | 37.0 | 45.0  | 52.9  | 58.2  |
| 17.5° | 29.1 | 31.8 | 31.8 | 29.1 | 29.1 | 31.8 | 37.0 | 45.0  | 58.2  | 66.2  |
| 20°   | 26.5 | 29.1 | 31.8 | 29.1 | 29.1 | 29.1 | 37.0 | 45.0  | 60.9  | 71.4  |
| 22.5° | 23.8 | 26.5 | 29.1 | 29.1 | 26.5 | 29.1 | 37.0 | 47.6  | 66.2  | 79.4  |
| 25°   | 21.2 | 23.8 | 23.8 | 26.5 | 26.5 | 29.1 | 37.0 | 47.6  | 68.8  | 90.0  |
| 27.5° | 15.9 | 18.5 | 21.2 | 23.8 | 23.8 | 29.1 | 37.0 | 50.3  | 74.1  | 111.1 |
| 30°   | 13.2 | 15.9 | 18.5 | 21.2 | 23.8 | 29.1 | 37.0 | 50.3  | 79.4  | 140.2 |
| 32.5° | 13.2 | 15.9 | 18.5 | 21.2 | 23.8 | 26.5 | 37.0 | 52.9  | 87.3  | 174.7 |
| 35°   | 10.6 | 13.2 | 15.9 | 21.2 | 21.2 | 26.5 | 37.0 | 52.9  | 95.3  | 227.6 |
| 37.5° | 10.6 | 13.2 | 15.9 | 21.2 | 21.2 | 26.5 | 37.0 | 52.9  | 116.4 | 254.0 |
| 40°   | 7.9  | 10.6 | 13.2 | 21.2 | 21.2 | 26.5 | 39.7 | 55.6  | 119.1 | 256.7 |
| 42.5° | 7.9  | 10.6 | 13.2 | 18.5 | 21.2 | 26.5 | 39.7 | 55.6  | 111.1 | 264.6 |
| 45°   | 7.9  | 10.6 | 13.2 | 21.2 | 23.8 | 29.1 | 39.7 | 58.2  | 108.5 | 301.7 |
| 47.5° | 7.9  | 10.6 | 13.2 | 21.2 | 26.5 | 29.1 | 39.7 | 58.2  | 111.1 | 431.3 |
| 50°   | 7.9  | 10.6 | 13.2 | 21.2 | 29.1 | 29.1 | 39.7 | 58.2  | 121.7 | 693.3 |
| 52.5° | 5.3  | 7.9  | 10.6 | 18.5 | 23.8 | 31.8 | 42.3 | 55.6  | 129.7 | 926.2 |
| 55°   | 5.3  | 5.3  | 7.9  | 15.9 | 21.2 | 34.4 | 45.0 | 55.6  | 150.8 | 984.4 |
| 57.5° | 5.3  | 5.3  | 7.9  | 13.2 | 18.5 | 37.0 | 47.6 | 55.6  | 174.7 | 955.3 |
| 59°   | 5.3  | 5.3  | 5.3  | 13.2 | 15.9 | 37.0 | 47.6 | 58.2  | 177.3 | 905.0 |
| 60°   | 5.3  | 5.3  | 5.3  | 10.6 | 15.9 | 37.0 | 50.3 | 60.9  | 179.9 | 846.8 |
| 62.5° | 2.6  | 2.6  | 2.6  | 10.6 | 13.2 | 37.0 | 55.6 | 74.1  | 185.2 | 653.6 |
| 65°   | 5.3  | 5.3  | 2.6  | 7.9  | 13.2 | 31.8 | 63.5 | 79.4  | 187.9 | 508.1 |
| 67.5° | 5.3  | 5.3  | 5.3  | 10.6 | 13.2 | 31.8 | 66.2 | 82.0  | 187.9 | 402.2 |
| 70°   | 5.3  | 5.3  | 5.3  | 10.6 | 15.9 | 31.8 | 66.2 | 84.7  | 185.2 | 328.1 |
| 72.5° | 5.3  | 5.3  | 5.3  | 10.6 | 15.9 | 29.1 | 60.9 | 87.3  | 177.3 | 277.9 |
| 75°   | 5.3  | 5.3  | 5.3  | 7.9  | 13.2 | 26.5 | 58.2 | 95.3  | 161.4 | 235.5 |
| 77.5° | 5.3  | 5.3  | 5.3  | 5.3  | 10.6 | 21.2 | 52.9 | 105.8 | 142.9 | 190.5 |
| 80°   | 7.9  | 5.3  | 5.3  | 5.3  | 7.9  | 18.5 | 50.3 | 103.2 | 119.1 | 124.4 |
| 82.5° | 7.9  | 5.3  | 5.3  | 2.6  | 5.3  | 13.2 | 39.7 | 79.4  | 60.9  | 55.6  |
| 85°   | 5.3  | 5.3  | 5.3  | 2.6  | 2.6  | 7.9  | 18.5 | 23.8  | 18.5  | 13.2  |
| 87.5° | 5.3  | 5.3  | 5.3  | 2.6  | 2.6  | 2.6  | 2.6  | 2.6   | 2.6   | 2.6   |
| 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: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

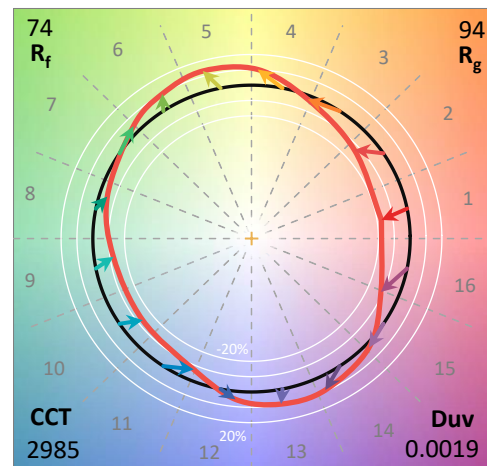
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2407-184-4  
 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-730-U-5WQ**  
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI  
 3000K CCT 26 LEDS

### Spectral Parameters

|                           |          |           |      |      |       |
|---------------------------|----------|-----------|------|------|-------|
| CCT (K):                  | 2985     | CRI (Ra): | 70.8 |      |       |
| CIE u':                   | 0.2504   | R1:       | 66.3 | R9:  | -43.2 |
| CIE v':                   | 0.5243   | R2:       | 80.6 | R10: | 57.6  |
| Duv:                      | 0.0019   | R3:       | 94.5 | R11: | 64.8  |
| CIE x:                    | 0.4408   | R4:       | 68.2 | R12: | 53.5  |
| CIE y:                    | 0.4101   | R5:       | 66.5 | R13: | 68.7  |
| CIE z:                    | 0.1491   | R6:       | 74.7 | R14: | 97.0  |
| Peak Wavelength (nm):     | 595      | R7:       | 76.2 | R15: | 56.4  |
| Dominant Wavelength (nm): | 582      | R8:       | 39.6 |      |       |
| Purity:                   | 55.41818 |           |      |      |       |
| Rf:                       | 73.8     |           |      |      |       |
| Rg:                       | 94.4     |           |      |      |       |



### Test Conditions

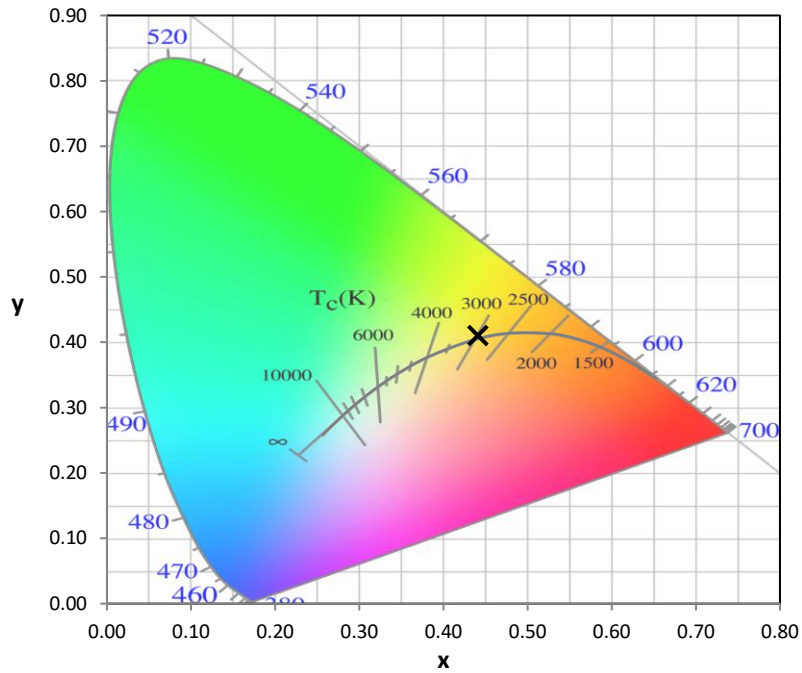
Stabilization Time: 36M  
 Operation Time: 1H 36M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

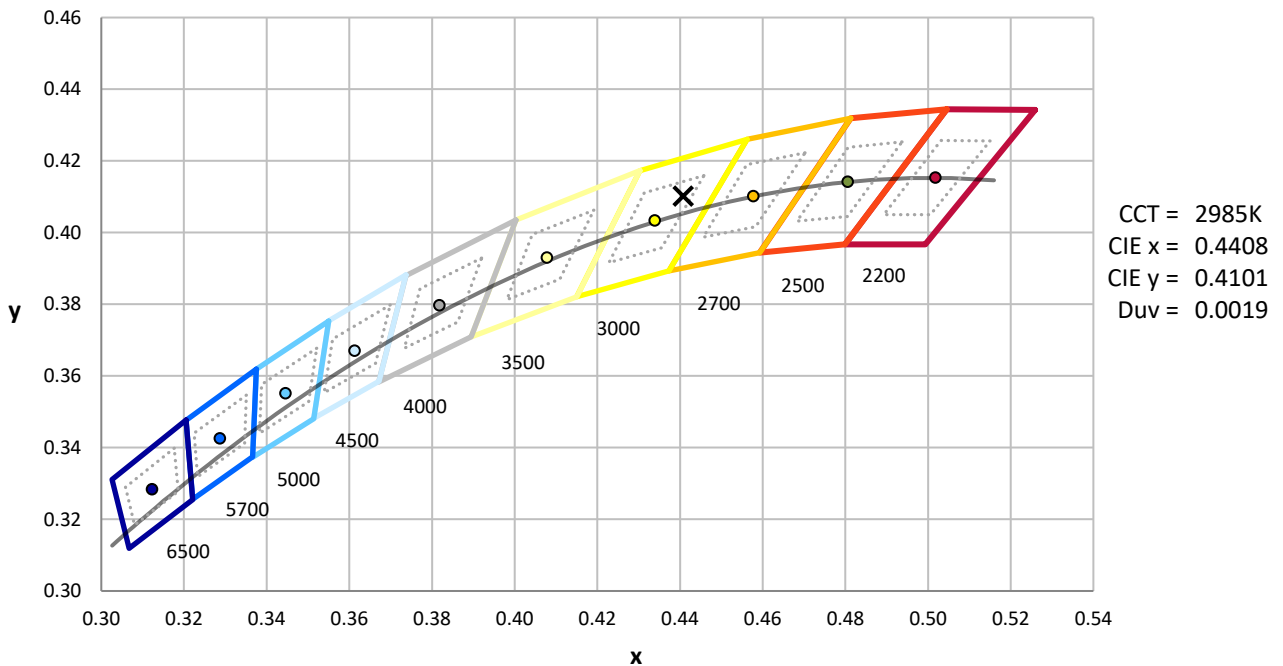
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| 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: SP1-2407-184-4

**CIE 1931 Chromaticity Diagram**



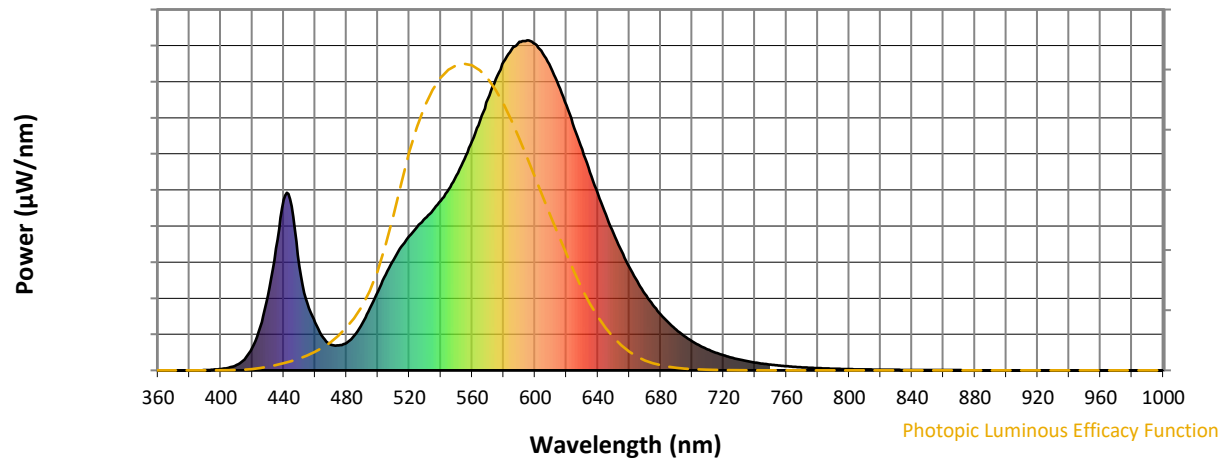
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

### Photopic Flux vs. Wavelength

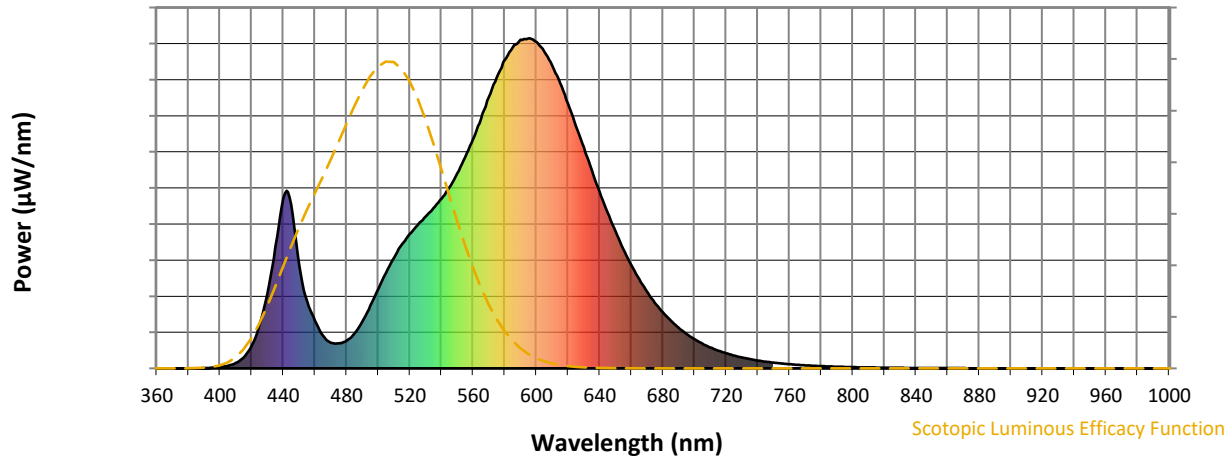


### Photopic Lumens: NR

| $\lambda$<br>(nm) | Power<br>$\text{W}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) |
|-------------------|-------------------------------|--------------------------------|-------------------|-------------------------------|--------------------------------|-------------------|-------------------------------|--------------------------------|-------------------|-------------------------------|--------------------------------|-------------------|-------------------------------|--------------------------------|
| 360               | 0                             | NR                             | 490               | 142                           | NR                             | 620               | 803                           | NR                             | 750               | 17                            | NR                             | 880               | 0                             | NR                             |
| 365               | 0                             | NR                             | 495               | 189                           | NR                             | 625               | 734                           | NR                             | 755               | 15                            | NR                             | 885               | 0                             | NR                             |
| 370               | 0                             | NR                             | 500               | 240                           | NR                             | 630               | 670                           | NR                             | 760               | 13                            | NR                             | 890               | 0                             | NR                             |
| 375               | 0                             | NR                             | 505               | 290                           | NR                             | 635               | 600                           | NR                             | 765               | 11                            | NR                             | 895               | 0                             | NR                             |
| 380               | 0                             | NR                             | 510               | 335                           | NR                             | 640               | 535                           | NR                             | 770               | 9                             | NR                             | 900               | 0                             | NR                             |
| 385               | 0                             | NR                             | 515               | 375                           | NR                             | 645               | 473                           | NR                             | 775               | 8                             | NR                             | 905               | 0                             | NR                             |
| 390               | 1                             | NR                             | 520               | 408                           | NR                             | 650               | 415                           | NR                             | 780               | 7                             | NR                             | 910               | 0                             | NR                             |
| 395               | 2                             | NR                             | 525               | 434                           | NR                             | 655               | 362                           | NR                             | 785               | 6                             | NR                             | 915               | 0                             | NR                             |
| 400               | 4                             | NR                             | 530               | 461                           | NR                             | 660               | 313                           | NR                             | 790               | 5                             | NR                             | 920               | 0                             | NR                             |
| 405               | 8                             | NR                             | 535               | 486                           | NR                             | 665               | 271                           | NR                             | 795               | 4                             | NR                             | 925               | 0                             | NR                             |
| 410               | 16                            | NR                             | 540               | 514                           | NR                             | 670               | 231                           | NR                             | 800               | 4                             | NR                             | 930               | 0                             | NR                             |
| 415               | 33                            | NR                             | 545               | 549                           | NR                             | 675               | 198                           | NR                             | 805               | 3                             | NR                             | 935               | 0                             | NR                             |
| 420               | 69                            | NR                             | 550               | 591                           | NR                             | 680               | 169                           | NR                             | 810               | 3                             | NR                             | 940               | 0                             | NR                             |
| 425               | 131                           | NR                             | 555               | 640                           | NR                             | 685               | 144                           | NR                             | 815               | 2                             | NR                             | 945               | 0                             | NR                             |
| 430               | 227                           | NR                             | 560               | 695                           | NR                             | 690               | 123                           | NR                             | 820               | 2                             | NR                             | 950               | 0                             | NR                             |
| 435               | 369                           | NR                             | 565               | 757                           | NR                             | 695               | 104                           | NR                             | 825               | 2                             | NR                             | 955               | 0                             | NR                             |
| 440               | 517                           | NR                             | 570               | 822                           | NR                             | 700               | 88                            | NR                             | 830               | 2                             | NR                             | 960               | 0                             | NR                             |
| 445               | 498                           | NR                             | 575               | 882                           | NR                             | 705               | 75                            | NR                             | 835               | 1                             | NR                             | 965               | 0                             | NR                             |
| 450               | 315                           | NR                             | 580               | 935                           | NR                             | 710               | 63                            | NR                             | 840               | 1                             | NR                             | 970               | 0                             | NR                             |
| 455               | 204                           | NR                             | 585               | 972                           | NR                             | 715               | 54                            | NR                             | 845               | 1                             | NR                             | 975               | 0                             | NR                             |
| 460               | 145                           | NR                             | 590               | 996                           | NR                             | 720               | 46                            | NR                             | 850               | 1                             | NR                             | 980               | 0                             | NR                             |
| 465               | 100                           | NR                             | 595               | 1000                          | NR                             | 725               | 39                            | NR                             | 855               | 1                             | NR                             | 985               | 0                             | NR                             |
| 470               | 78                            | NR                             | 600               | 989                           | NR                             | 730               | 33                            | NR                             | 860               | 1                             | NR                             | 990               | 0                             | NR                             |
| 475               | 76                            | NR                             | 605               | 960                           | NR                             | 735               | 28                            | NR                             | 865               | 1                             | NR                             | 995               | 0                             | NR                             |
| 480               | 83                            | NR                             | 610               | 918                           | NR                             | 740               | 24                            | NR                             | 870               | 1                             | NR                             | 1000              | 0                             | NR                             |
| 485               | 105                           | NR                             | 615               | 864                           | NR                             | 745               | 20                            | NR                             | 875               | 1                             | NR                             |                   |                               |                                |

REPORT NUMBER: SP1-2407-184-4

### Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

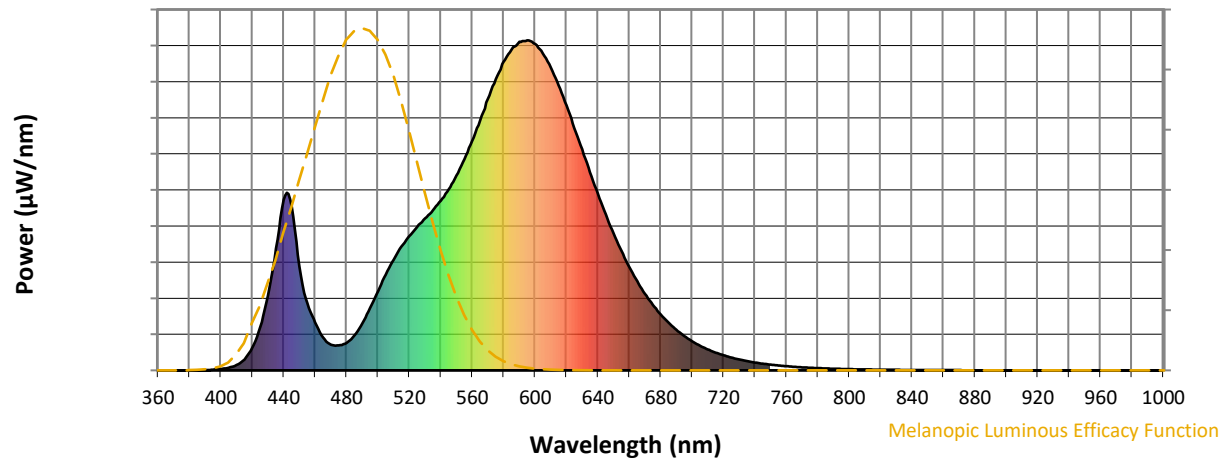
S/P: 1.19

| $\lambda$<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               | 142                                  | NR                             | 620               | 803                                  | NR                             | 750               | 17                                   | NR                             | 880               | 0                                    | NR                             |
| 365               | 0                                    | NR                             | 495               | 189                                  | NR                             | 625               | 734                                  | NR                             | 755               | 15                                   | NR                             | 885               | 0                                    | NR                             |
| 370               | 0                                    | NR                             | 500               | 240                                  | NR                             | 630               | 670                                  | NR                             | 760               | 13                                   | NR                             | 890               | 0                                    | NR                             |
| 375               | 0                                    | NR                             | 505               | 290                                  | NR                             | 635               | 600                                  | NR                             | 765               | 11                                   | NR                             | 895               | 0                                    | NR                             |
| 380               | 0                                    | NR                             | 510               | 335                                  | NR                             | 640               | 535                                  | NR                             | 770               | 9                                    | NR                             | 900               | 0                                    | NR                             |
| 385               | 0                                    | NR                             | 515               | 375                                  | NR                             | 645               | 473                                  | NR                             | 775               | 8                                    | NR                             | 905               | 0                                    | NR                             |
| 390               | 1                                    | NR                             | 520               | 408                                  | NR                             | 650               | 415                                  | NR                             | 780               | 7                                    | NR                             | 910               | 0                                    | NR                             |
| 395               | 2                                    | NR                             | 525               | 434                                  | NR                             | 655               | 362                                  | NR                             | 785               | 6                                    | NR                             | 915               | 0                                    | NR                             |
| 400               | 4                                    | NR                             | 530               | 461                                  | NR                             | 660               | 313                                  | NR                             | 790               | 5                                    | NR                             | 920               | 0                                    | NR                             |
| 405               | 8                                    | NR                             | 535               | 486                                  | NR                             | 665               | 271                                  | NR                             | 795               | 4                                    | NR                             | 925               | 0                                    | NR                             |
| 410               | 16                                   | NR                             | 540               | 514                                  | NR                             | 670               | 231                                  | NR                             | 800               | 4                                    | NR                             | 930               | 0                                    | NR                             |
| 415               | 33                                   | NR                             | 545               | 549                                  | NR                             | 675               | 198                                  | NR                             | 805               | 3                                    | NR                             | 935               | 0                                    | NR                             |
| 420               | 69                                   | NR                             | 550               | 591                                  | NR                             | 680               | 169                                  | NR                             | 810               | 3                                    | NR                             | 940               | 0                                    | NR                             |
| 425               | 131                                  | NR                             | 555               | 640                                  | NR                             | 685               | 144                                  | NR                             | 815               | 2                                    | NR                             | 945               | 0                                    | NR                             |
| 430               | 227                                  | NR                             | 560               | 695                                  | NR                             | 690               | 123                                  | NR                             | 820               | 2                                    | NR                             | 950               | 0                                    | NR                             |
| 435               | 369                                  | NR                             | 565               | 757                                  | NR                             | 695               | 104                                  | NR                             | 825               | 2                                    | NR                             | 955               | 0                                    | NR                             |
| 440               | 517                                  | NR                             | 570               | 822                                  | NR                             | 700               | 88                                   | NR                             | 830               | 2                                    | NR                             | 960               | 0                                    | NR                             |
| 445               | 498                                  | NR                             | 575               | 882                                  | NR                             | 705               | 75                                   | NR                             | 835               | 1                                    | NR                             | 965               | 0                                    | NR                             |
| 450               | 315                                  | NR                             | 580               | 935                                  | NR                             | 710               | 63                                   | NR                             | 840               | 1                                    | NR                             | 970               | 0                                    | NR                             |
| 455               | 204                                  | NR                             | 585               | 972                                  | NR                             | 715               | 54                                   | NR                             | 845               | 1                                    | NR                             | 975               | 0                                    | NR                             |
| 460               | 145                                  | NR                             | 590               | 996                                  | NR                             | 720               | 46                                   | NR                             | 850               | 1                                    | NR                             | 980               | 0                                    | NR                             |
| 465               | 100                                  | NR                             | 595               | 1000                                 | NR                             | 725               | 39                                   | NR                             | 855               | 1                                    | NR                             | 985               | 0                                    | NR                             |
| 470               | 78                                   | NR                             | 600               | 989                                  | NR                             | 730               | 33                                   | NR                             | 860               | 1                                    | NR                             | 990               | 0                                    | NR                             |
| 475               | 76                                   | NR                             | 605               | 960                                  | NR                             | 735               | 28                                   | NR                             | 865               | 1                                    | NR                             | 995               | 0                                    | NR                             |
| 480               | 83                                   | NR                             | 610               | 918                                  | NR                             | 740               | 24                                   | NR                             | 870               | 1                                    | NR                             | 1000              | 0                                    | NR                             |
| 485               | 105                                  | NR                             | 615               | 864                                  | NR                             | 745               | 20                                   | NR                             | 875               | 1                                    | NR                             |                   |                                      |                                |



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### Melanopic Flux vs. Wavelength


**Melanopic Lumens: NR**
**M/P: 2.13**

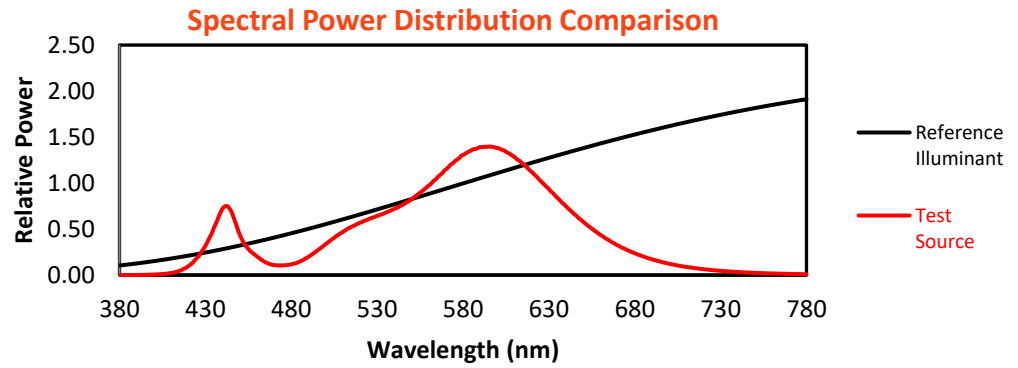
| $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<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               | 142                                  | NR                             | 620               | 803                                  | NR                             | 750               | 17                                   | NR                             | 880               | 0                                    | NR                             |
| 365               | 0                                    | NR                             | 495               | 189                                  | NR                             | 625               | 734                                  | NR                             | 755               | 15                                   | NR                             | 885               | 0                                    | NR                             |
| 370               | 0                                    | NR                             | 500               | 240                                  | NR                             | 630               | 670                                  | NR                             | 760               | 13                                   | NR                             | 890               | 0                                    | NR                             |
| 375               | 0                                    | NR                             | 505               | 290                                  | NR                             | 635               | 600                                  | NR                             | 765               | 11                                   | NR                             | 895               | 0                                    | NR                             |
| 380               | 0                                    | NR                             | 510               | 335                                  | NR                             | 640               | 535                                  | NR                             | 770               | 9                                    | NR                             | 900               | 0                                    | NR                             |
| 385               | 0                                    | NR                             | 515               | 375                                  | NR                             | 645               | 473                                  | NR                             | 775               | 8                                    | NR                             | 905               | 0                                    | NR                             |
| 390               | 1                                    | NR                             | 520               | 408                                  | NR                             | 650               | 415                                  | NR                             | 780               | 7                                    | NR                             | 910               | 0                                    | NR                             |
| 395               | 2                                    | NR                             | 525               | 434                                  | NR                             | 655               | 362                                  | NR                             | 785               | 6                                    | NR                             | 915               | 0                                    | NR                             |
| 400               | 4                                    | NR                             | 530               | 461                                  | NR                             | 660               | 313                                  | NR                             | 790               | 5                                    | NR                             | 920               | 0                                    | NR                             |
| 405               | 8                                    | NR                             | 535               | 486                                  | NR                             | 665               | 271                                  | NR                             | 795               | 4                                    | NR                             | 925               | 0                                    | NR                             |
| 410               | 16                                   | NR                             | 540               | 514                                  | NR                             | 670               | 231                                  | NR                             | 800               | 4                                    | NR                             | 930               | 0                                    | NR                             |
| 415               | 33                                   | NR                             | 545               | 549                                  | NR                             | 675               | 198                                  | NR                             | 805               | 3                                    | NR                             | 935               | 0                                    | NR                             |
| 420               | 69                                   | NR                             | 550               | 591                                  | NR                             | 680               | 169                                  | NR                             | 810               | 3                                    | NR                             | 940               | 0                                    | NR                             |
| 425               | 131                                  | NR                             | 555               | 640                                  | NR                             | 685               | 144                                  | NR                             | 815               | 2                                    | NR                             | 945               | 0                                    | NR                             |
| 430               | 227                                  | NR                             | 560               | 695                                  | NR                             | 690               | 123                                  | NR                             | 820               | 2                                    | NR                             | 950               | 0                                    | NR                             |
| 435               | 369                                  | NR                             | 565               | 757                                  | NR                             | 695               | 104                                  | NR                             | 825               | 2                                    | NR                             | 955               | 0                                    | NR                             |
| 440               | 517                                  | NR                             | 570               | 822                                  | NR                             | 700               | 88                                   | NR                             | 830               | 2                                    | NR                             | 960               | 0                                    | NR                             |
| 445               | 498                                  | NR                             | 575               | 882                                  | NR                             | 705               | 75                                   | NR                             | 835               | 1                                    | NR                             | 965               | 0                                    | NR                             |
| 450               | 315                                  | NR                             | 580               | 935                                  | NR                             | 710               | 63                                   | NR                             | 840               | 1                                    | NR                             | 970               | 0                                    | NR                             |
| 455               | 204                                  | NR                             | 585               | 972                                  | NR                             | 715               | 54                                   | NR                             | 845               | 1                                    | NR                             | 975               | 0                                    | NR                             |
| 460               | 145                                  | NR                             | 590               | 996                                  | NR                             | 720               | 46                                   | NR                             | 850               | 1                                    | NR                             | 980               | 0                                    | NR                             |
| 465               | 100                                  | NR                             | 595               | 1000                                 | NR                             | 725               | 39                                   | NR                             | 855               | 1                                    | NR                             | 985               | 0                                    | NR                             |
| 470               | 78                                   | NR                             | 600               | 989                                  | NR                             | 730               | 33                                   | NR                             | 860               | 1                                    | NR                             | 990               | 0                                    | NR                             |
| 475               | 76                                   | NR                             | 605               | 960                                  | NR                             | 735               | 28                                   | NR                             | 865               | 1                                    | NR                             | 995               | 0                                    | NR                             |
| 480               | 83                                   | NR                             | 610               | 918                                  | NR                             | 740               | 24                                   | NR                             | 870               | 1                                    | NR                             | 1000              | 0                                    | NR                             |
| 485               | 105                                  | NR                             | 615               | 864                                  | NR                             | 745               | 20                                   | NR                             | 875               | 1                                    | NR                             |                   |                                      |                                |

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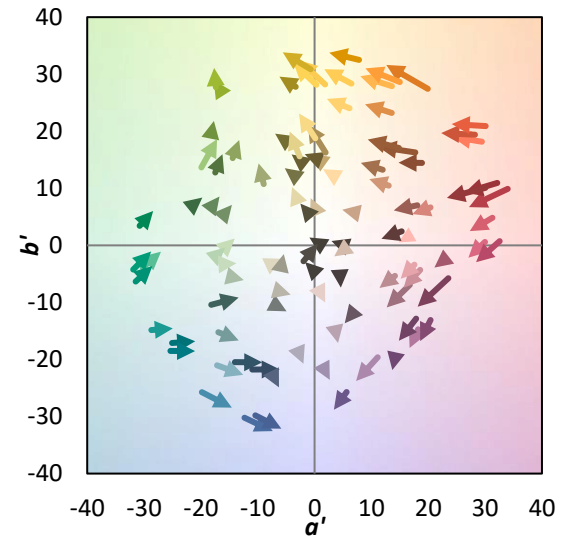
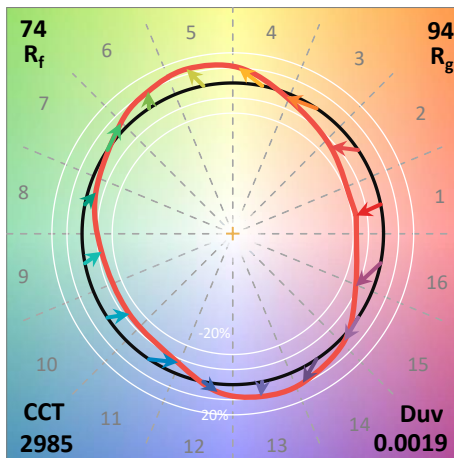
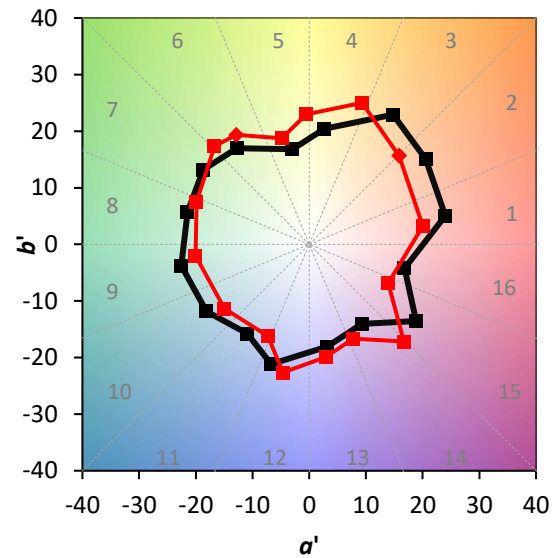
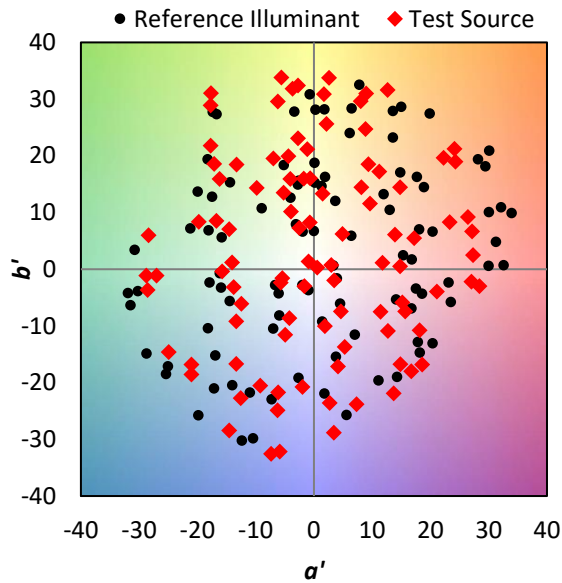
TM-30-18

### Summary

$R_f = 73.8$   
 $R_g = 94.4$   
 CIE  $R_a = 70.8$   
 $R_g = -43.2$

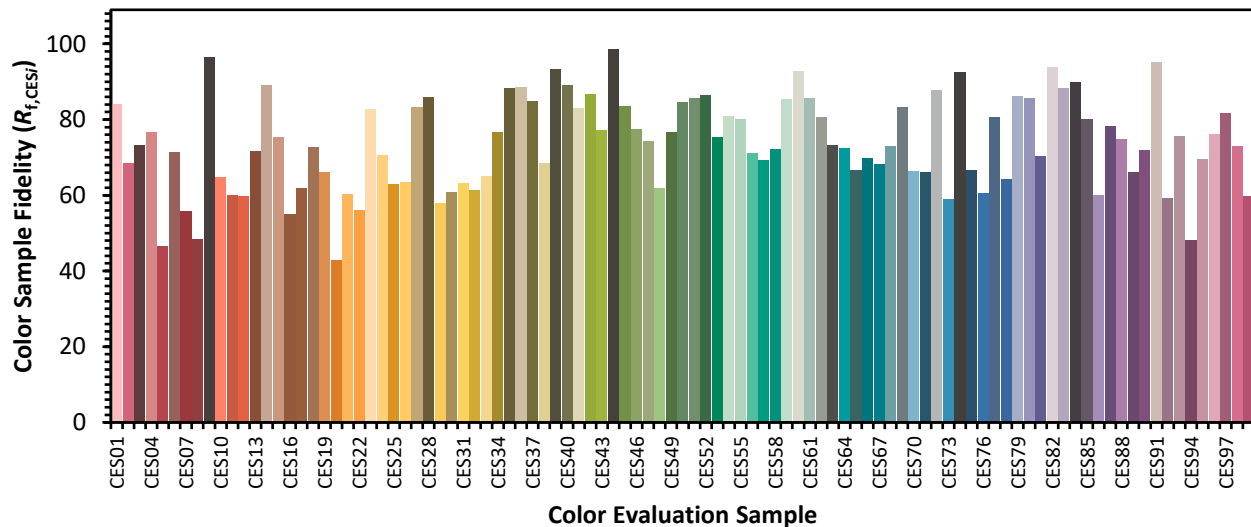


### Color Vector Graphics

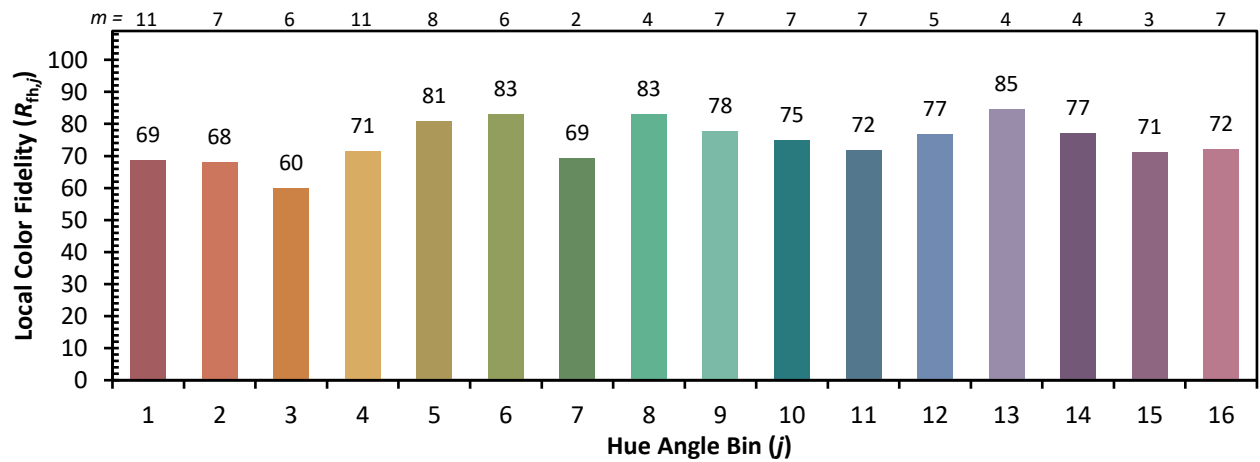
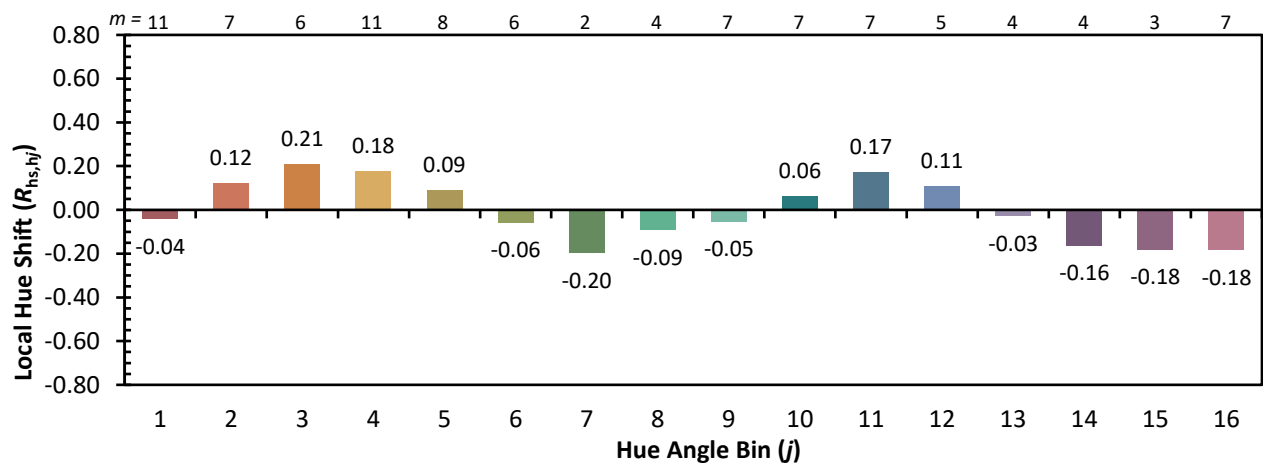
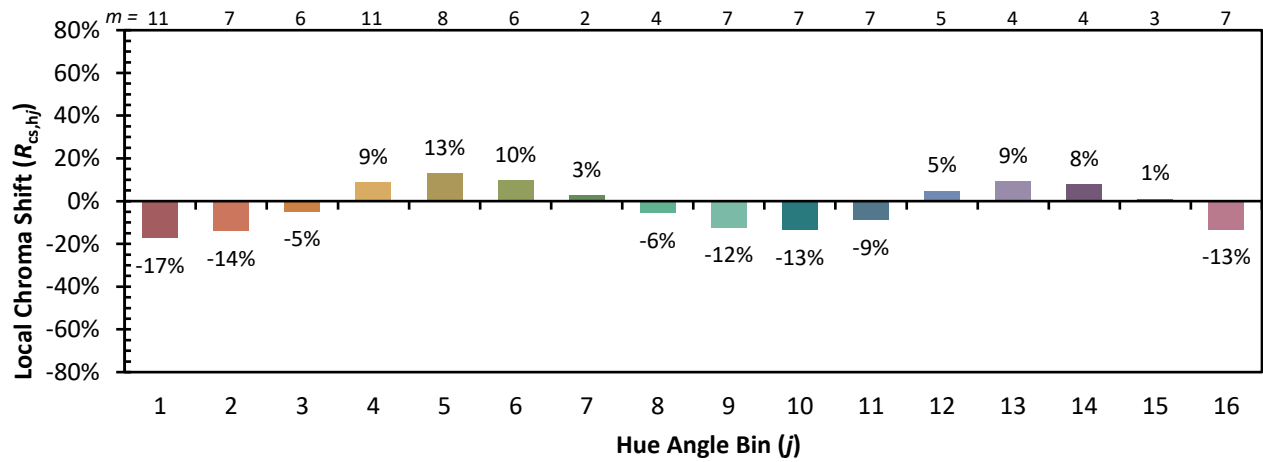


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

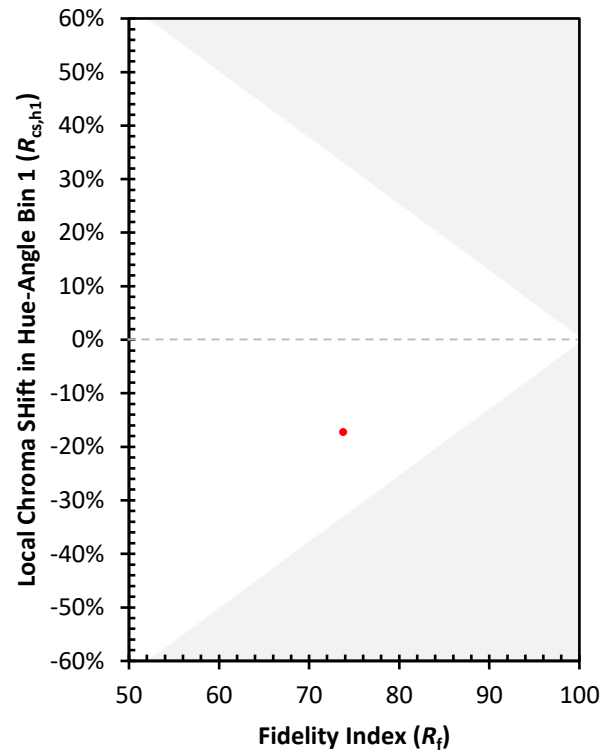
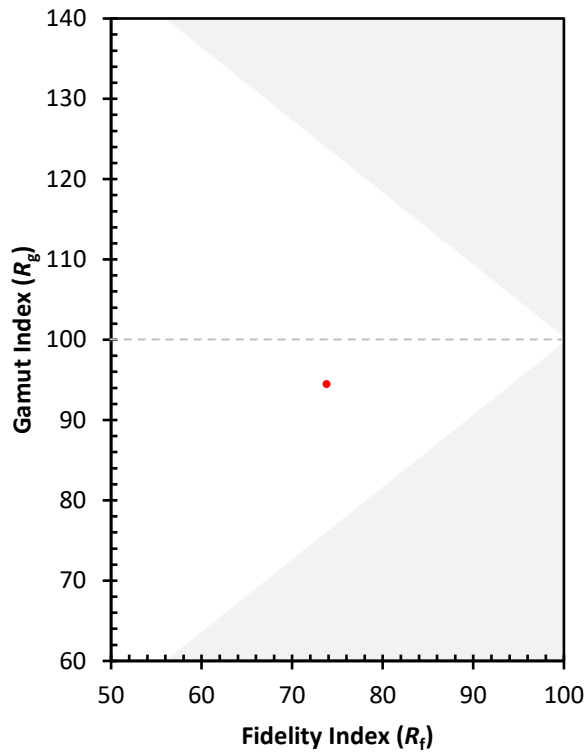
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 63 | CES51 = 86 | CES76 = 61 |
| CES02 = 62 | CES27 = 83 | CES52 = 86 | CES77 = 81 |
| CES03 = 31 | CES28 = 86 | CES53 = 75 | CES78 = 64 |
| CES04 = 71 | CES29 = 58 | CES54 = 81 | CES79 = 86 |
| CES05 = 49 | CES30 = 61 | CES55 = 80 | CES80 = 86 |
| CES06 = 51 | CES31 = 63 | CES56 = 71 | CES81 = 70 |
| CES07 = 41 | CES32 = 61 | CES57 = 69 | CES82 = 94 |
| CES08 = 40 | CES33 = 65 | CES58 = 72 | CES83 = 88 |
| CES09 = 29 | CES34 = 77 | CES59 = 85 | CES84 = 90 |
| CES10 = 76 | CES35 = 88 | CES60 = 93 | CES85 = 80 |
| CES11 = 59 | CES36 = 89 | CES61 = 86 | CES86 = 60 |
| CES12 = 65 | CES37 = 85 | CES62 = 81 | CES87 = 78 |
| CES13 = 43 | CES38 = 69 | CES63 = 73 | CES88 = 75 |
| CES14 = 74 | CES39 = 93 | CES64 = 72 | CES89 = 66 |
| CES15 = 71 | CES40 = 89 | CES65 = 67 | CES90 = 72 |
| CES16 = 47 | CES41 = 83 | CES66 = 70 | CES91 = 95 |
| CES17 = 50 | CES42 = 87 | CES67 = 68 | CES92 = 59 |
| CES18 = 56 | CES43 = 77 | CES68 = 73 | CES93 = 76 |
| CES19 = 73 | CES44 = 99 | CES69 = 83 | CES94 = 48 |
| CES20 = 66 | CES45 = 83 | CES70 = 66 | CES95 = 70 |
| CES21 = 87 | CES46 = 77 | CES71 = 66 | CES96 = 76 |
| CES22 = 79 | CES47 = 74 | CES72 = 88 | CES97 = 82 |
| CES23 = 92 | CES48 = 62 | CES73 = 59 | CES98 = 73 |
| CES24 = 91 | CES49 = 77 | CES74 = 93 | CES99 = 60 |
| CES25 = 73 | CES50 = 85 | CES75 = 67 |            |



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)