

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: P1066746

Luminaire Tested: **NVN-SA2B-730-U-LBC**

Issue Date: 08/07/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1066746  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 08/07/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SA2B-730-U-LBC  
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 2xLight Square PACKAGE  
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (28) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7093.5 lumens  
Efficiency: N/A  
Efficacy: 97.4 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



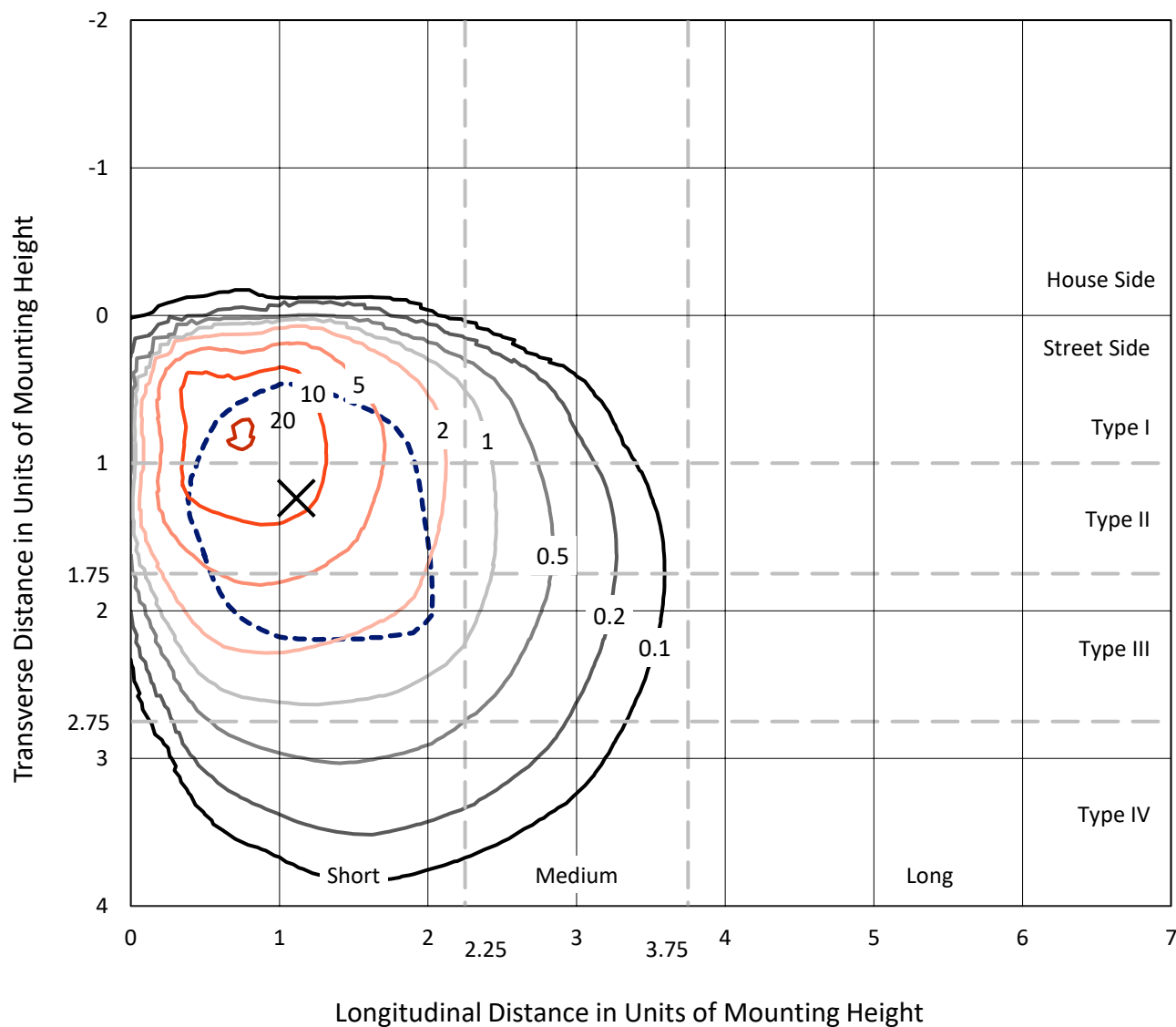
REPORT NUMBER: P1066746

CATALOG NUMBER: NVN-SA2B-730-U-LBC

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

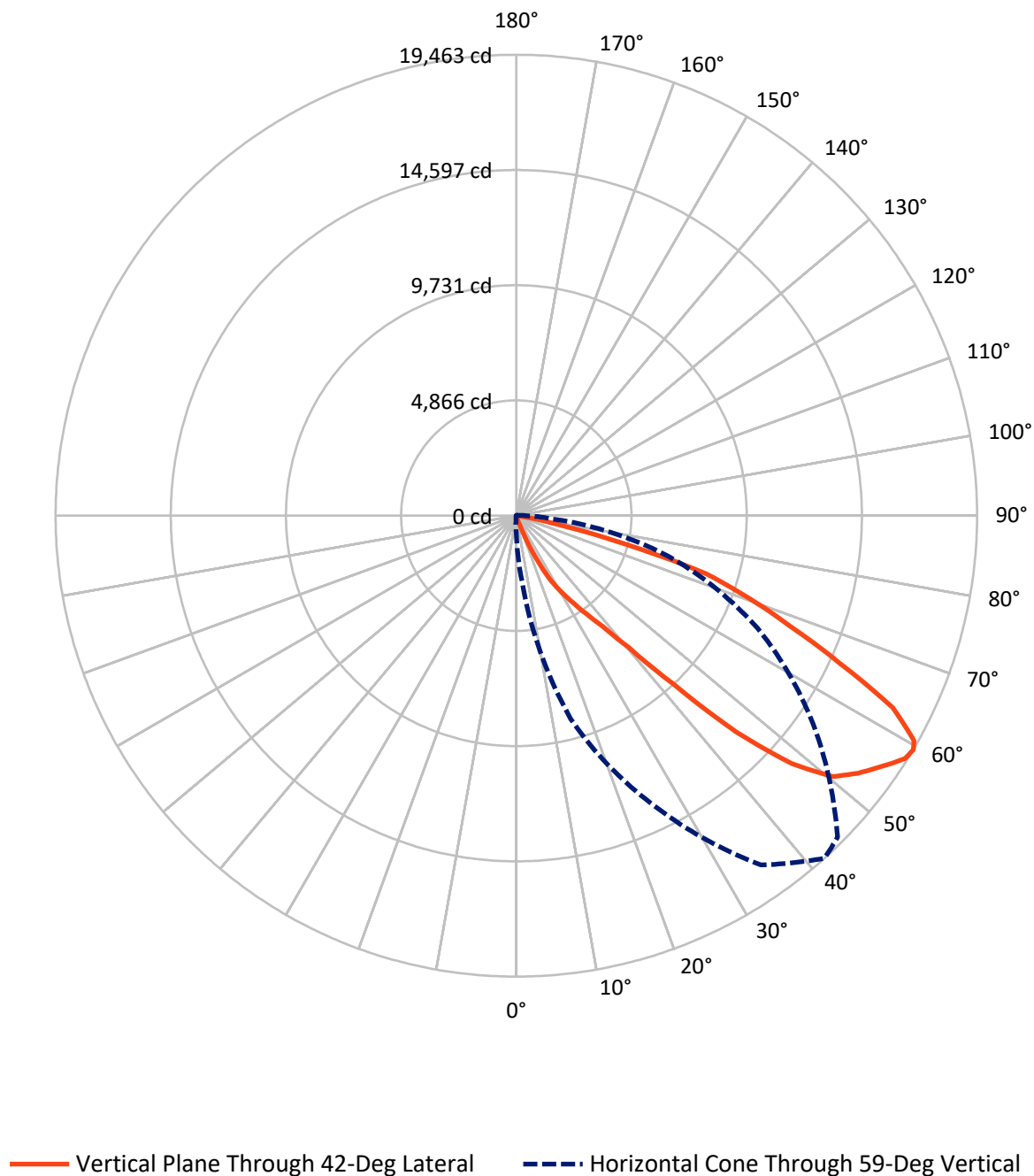


Based on 15 foot mounting height. Maximum calculated value = 21.1 fc  
 Type III - Short - N/A

REPORT NUMBER: P1066746

CATALOG NUMBER: NVN-SA2B-730-U-LBC

## Luminous Intensity Polar Plot



REPORT NUMBER: P1066746

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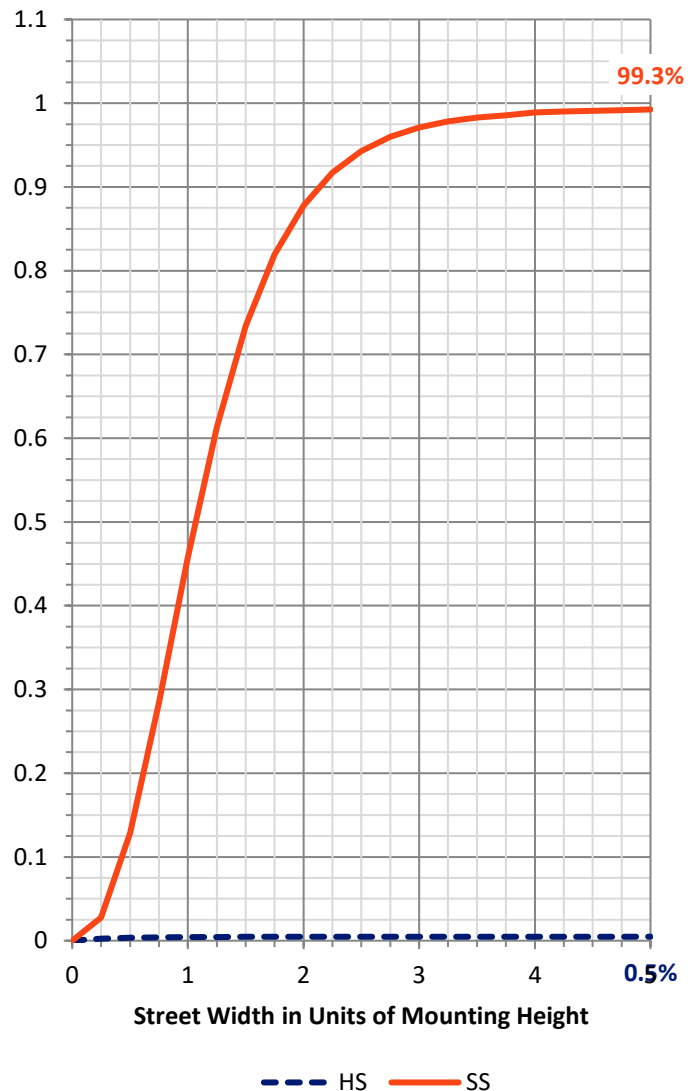
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 34.2     | 0.0    | 34.2   |
|                    | % Fixture | 0.5      | 0.0    | 0.5    |
| <b>Street Side</b> | Lumens    | 7059.3   | 0.0    | 7059.3 |
|                    | % Fixture | 99.5     | 0.0    | 99.5   |
| <b>Total</b>       | Lumens    | 7093.5   | 0.0    | 7093.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.1    | 0.0       |
| 10°-20°   | 10.3   | 0.1       |
| 20°-30°   | 132.3  | 1.9       |
| 30°-40°   | 446.1  | 6.3       |
| 40°-50°   | 1347.4 | 19.0      |
| 50°-60°   | 2378.5 | 33.5      |
| 60°-70°   | 2094.3 | 29.5      |
| 70°-80°   | 666.6  | 9.4       |
| 80°-90°   | 15.9   | 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°    | 7093.5 | 100.0     |
| 0°-180°   | 7093.5 | 100.0     |



REPORT NUMBER: P1066746

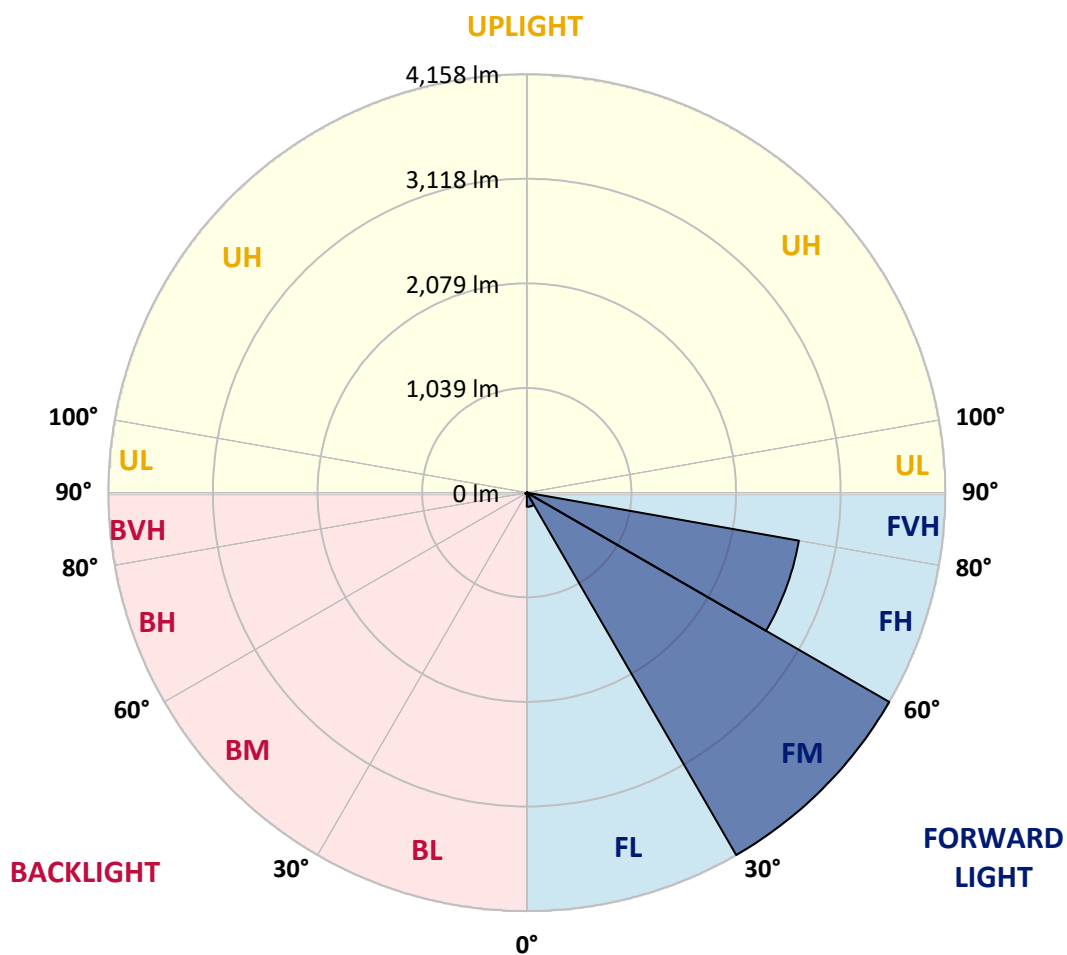
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 140.9  | 2.0       |                         |      |         |
| FM   | (30°-60°)   | 4158.0 | 58.6      |                         |      |         |
| FH   | (60°-80°)   | 2745.2 | 38.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 15.2   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 3.8    | 0.1       | B0/110                  |      |         |
| BM   | (30°-60°)   | 14.0   | 0.2       | B0/220                  |      |         |
| BH   | (60°-80°)   | 15.6   | 0.2       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.8    | 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



REPORT NUMBER: P1066746

CATALOG NUMBER: NVN-SA2B-730-U-LBC

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°     | 15°    | 25°     | 35°     | 42°     | 45°     | 55°     | 65°     | 75°    | 85°    |
|-------|-------|--------|--------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0°    | 20.0  | 20.0   | 20.0   | 20.0    | 20.0    | 20.0    | 20.0    | 20.0    | 20.0    | 20.0   | 20.0   |
| 2.5°  | 31.1  | 31.1   | 28.9   | 26.7    | 24.5    | 22.2    | 22.2    | 22.2    | 20.0    | 20.0   | 17.8   |
| 5°    | 35.6  | 35.6   | 33.4   | 31.1    | 31.1    | 28.9    | 28.9    | 26.7    | 24.5    | 24.5   | 22.2   |
| 7.5°  | 37.8  | 37.8   | 37.8   | 37.8    | 35.6    | 35.6    | 35.6    | 33.4    | 31.1    | 28.9   | 26.7   |
| 10°   | 40.0  | 42.3   | 44.5   | 44.5    | 44.5    | 44.5    | 44.5    | 42.3    | 37.8    | 35.6   | 31.1   |
| 12.5° | 44.5  | 46.7   | 51.2   | 55.6    | 55.6    | 57.8    | 55.6    | 53.4    | 48.9    | 42.3   | 35.6   |
| 15°   | 48.9  | 53.4   | 60.0   | 68.9    | 77.8    | 80.1    | 80.1    | 73.4    | 64.5    | 51.2   | 42.3   |
| 17.5° | 55.6  | 62.3   | 80.1   | 109.0   | 140.1   | 164.6   | 164.6   | 146.8   | 102.3   | 66.7   | 48.9   |
| 20°   | 60.0  | 73.4   | 129.0  | 262.4   | 400.3   | 502.6   | 482.6   | 427.0   | 229.1   | 104.5  | 53.4   |
| 22.5° | 66.7  | 93.4   | 273.6  | 689.5   | 1067.5  | 1254.4  | 1209.9  | 918.5   | 513.8   | 186.8  | 64.5   |
| 25°   | 75.6  | 135.7  | 542.7  | 1292.2  | 1983.8  | 2186.2  | 2157.3  | 1714.7  | 936.3   | 313.6  | 82.3   |
| 27.5° | 93.4  | 200.2  | 869.6  | 1959.4  | 2926.8  | 3100.3  | 3089.2  | 2510.9  | 1496.8  | 504.9  | 106.8  |
| 30°   | 117.9 | 291.3  | 1289.9 | 2662.2  | 3551.8  | 3727.5  | 3671.9  | 3093.6  | 2019.4  | 771.7  | 137.9  |
| 32.5° | 146.8 | 407.0  | 1670.3 | 3180.4  | 4127.8  | 4359.1  | 4292.4  | 3600.7  | 2439.8  | 998.6  | 204.6  |
| 35°   | 191.3 | 520.4  | 2046.1 | 3638.5  | 4792.8  | 5086.4  | 4975.2  | 4123.4  | 2802.3  | 1254.4 | 246.9  |
| 37.5° | 213.5 | 587.1  | 2390.8 | 4136.7  | 5540.1  | 5940.4  | 5855.9  | 4783.9  | 3171.5  | 1581.3 | 302.5  |
| 40°   | 215.7 | 667.2  | 2748.9 | 4786.1  | 6596.5  | 7310.4  | 7159.2  | 5918.2  | 3858.7  | 2001.6 | 389.2  |
| 42.5° | 222.4 | 787.3  | 3213.7 | 5893.7  | 8671.6  | 9696.8  | 9525.6  | 8004.3  | 5417.8  | 2844.6 | 551.6  |
| 45°   | 253.5 | 1014.2 | 4161.2 | 7964.3  | 11520.6 | 13024.0 | 12826.1 | 10911.2 | 7595.1  | 4430.3 | 940.8  |
| 47.5° | 362.5 | 1525.7 | 5822.5 | 10199.5 | 14434.1 | 15632.8 | 15583.9 | 13201.9 | 9567.8  | 6056.1 | 1594.6 |
| 50°   | 582.7 | 2341.9 | 7713.0 | 12078.8 | 16288.9 | 17318.6 | 17196.3 | 14158.3 | 10693.2 | 7165.9 | 2043.9 |
| 52.5° | 778.4 | 3122.6 | 8900.6 | 12770.5 | 16842.7 | 18070.4 | 17921.4 | 14507.4 | 10989.0 | 7492.8 | 2168.4 |
| 55°   | 827.3 | 3405.0 | 9254.3 | 12984.0 | 17209.7 | 18706.4 | 18490.7 | 14741.0 | 11026.8 | 7259.3 | 1961.6 |
| 57.5° | 802.9 | 3138.1 | 9025.2 | 13193.0 | 17721.2 | 19360.3 | 19073.4 | 15196.9 | 11153.6 | 6863.4 | 1632.4 |
| 59°   | 760.6 | 2809.0 | 8882.8 | 13359.8 | 18003.6 | 19462.6 | 19193.5 | 15297.0 | 11238.1 | 6683.3 | 1432.3 |
| 60°   | 711.7 | 2586.6 | 8771.6 | 13468.8 | 17985.9 | 19302.5 | 19024.5 | 15250.3 | 11271.5 | 6527.6 | 1336.7 |
| 62.5° | 549.3 | 2063.9 | 8611.5 | 13391.0 | 16862.7 | 17841.3 | 17683.4 | 14107.1 | 10782.2 | 6029.4 | 1054.2 |
| 65°   | 427.0 | 1579.1 | 8024.4 | 11943.1 | 14349.5 | 15007.9 | 14958.9 | 11945.3 | 9074.1  | 5197.6 | 760.6  |
| 67.5° | 338.1 | 1152.1 | 6785.6 | 9672.4  | 11545.0 | 12481.3 | 12445.8 | 9696.8  | 6887.9  | 3972.1 | 547.1  |
| 70°   | 275.8 | 820.7  | 4652.7 | 7292.6  | 9234.2  | 10413.0 | 10361.8 | 7804.2  | 5104.2  | 2519.8 | 398.1  |
| 72.5° | 233.5 | 524.9  | 2822.3 | 5497.8  | 7706.3  | 8380.2  | 8231.2  | 6296.3  | 3711.9  | 1372.2 | 315.8  |
| 75°   | 197.9 | 322.5  | 1398.9 | 3427.3  | 4590.4  | 4586.0  | 4437.0  | 3333.8  | 1992.7  | 671.7  | 251.3  |
| 77.5° | 160.1 | 226.9  | 549.3  | 940.8   | 1447.9  | 1792.6  | 1763.7  | 1181.0  | 596.0   | 195.7  | 155.7  |
| 80°   | 104.5 | 106.8  | 146.8  | 258.0   | 398.1   | 440.4   | 500.4   | 360.3   | 173.5   | 93.4   | 64.5   |
| 82.5° | 46.7  | 51.2   | 66.7   | 84.5    | 84.5    | 77.8    | 68.9    | 51.2    | 37.8    | 31.1   | 15.6   |
| 85°   | 11.1  | 15.6   | 11.1   | 13.3    | 11.1    | 8.9     | 8.9     | 4.4     | 0.0     | 0.0    | 0.0    |
| 87.5° | 2.2   | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    |
| 90°   | 0.0   | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    |



REPORT NUMBER: P1066746

CATALOG NUMBER: NVN-SA2B-730-U-LBC

**CANDELA DISTRIBUTION (continued):**

|       | 90°   | 95°   | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| 0°    | 20.0  | 20.0  | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 |
| 2.5°  | 17.8  | 17.8  | 17.8 | 15.6 | 15.6 | 15.6 | 13.3 | 13.3 | 13.3 | 11.1 | 11.1 |
| 5°    | 22.2  | 20.0  | 17.8 | 17.8 | 15.6 | 15.6 | 13.3 | 11.1 | 11.1 | 11.1 | 8.9  |
| 7.5°  | 24.5  | 22.2  | 20.0 | 17.8 | 15.6 | 13.3 | 13.3 | 11.1 | 8.9  | 8.9  | 8.9  |
| 10°   | 28.9  | 26.7  | 22.2 | 17.8 | 15.6 | 13.3 | 11.1 | 11.1 | 8.9  | 6.7  | 6.7  |
| 12.5° | 33.4  | 28.9  | 24.5 | 20.0 | 15.6 | 13.3 | 11.1 | 11.1 | 8.9  | 6.7  | 4.4  |
| 15°   | 37.8  | 33.4  | 26.7 | 20.0 | 15.6 | 13.3 | 11.1 | 11.1 | 6.7  | 4.4  | 2.2  |
| 17.5° | 42.3  | 35.6  | 26.7 | 22.2 | 15.6 | 13.3 | 11.1 | 8.9  | 4.4  | 2.2  | 0.0  |
| 20°   | 44.5  | 37.8  | 28.9 | 22.2 | 15.6 | 13.3 | 11.1 | 6.7  | 2.2  | 0.0  | 0.0  |
| 22.5° | 48.9  | 42.3  | 31.1 | 22.2 | 15.6 | 11.1 | 6.7  | 2.2  | 0.0  | 0.0  | 0.0  |
| 25°   | 57.8  | 44.5  | 31.1 | 22.2 | 15.6 | 11.1 | 4.4  | 0.0  | 0.0  | 0.0  | 0.0  |
| 27.5° | 64.5  | 48.9  | 31.1 | 22.2 | 15.6 | 8.9  | 2.2  | 0.0  | 0.0  | 0.0  | 0.0  |
| 30°   | 75.6  | 53.4  | 33.4 | 22.2 | 15.6 | 6.7  | 2.2  | 0.0  | 0.0  | 0.0  | 0.0  |
| 32.5° | 93.4  | 57.8  | 33.4 | 22.2 | 13.3 | 6.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 35°   | 113.4 | 66.7  | 33.4 | 22.2 | 13.3 | 6.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 37.5° | 115.7 | 71.2  | 33.4 | 22.2 | 13.3 | 4.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 40°   | 120.1 | 66.7  | 35.6 | 22.2 | 13.3 | 4.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 42.5° | 137.9 | 62.3  | 37.8 | 22.2 | 13.3 | 4.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 45°   | 204.6 | 64.5  | 37.8 | 24.5 | 13.3 | 6.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 47.5° | 355.8 | 66.7  | 35.6 | 24.5 | 13.3 | 6.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 50°   | 455.9 | 77.8  | 35.6 | 26.7 | 15.6 | 4.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 52.5° | 484.8 | 91.2  | 35.6 | 28.9 | 20.0 | 2.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 55°   | 471.5 | 106.8 | 37.8 | 31.1 | 24.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 57.5° | 435.9 | 115.7 | 40.0 | 33.4 | 26.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 59°   | 398.1 | 122.3 | 46.7 | 35.6 | 26.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 60°   | 367.0 | 129.0 | 48.9 | 37.8 | 26.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 62.5° | 295.8 | 137.9 | 53.4 | 44.5 | 22.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 65°   | 258.0 | 144.6 | 55.6 | 48.9 | 20.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 67.5° | 235.7 | 149.0 | 60.0 | 51.2 | 17.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 70°   | 218.0 | 146.8 | 64.5 | 48.9 | 15.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 72.5° | 197.9 | 140.1 | 77.8 | 44.5 | 13.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 75°   | 177.9 | 126.8 | 84.5 | 40.0 | 8.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 77.5° | 129.0 | 106.8 | 77.8 | 35.6 | 4.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 80°   | 55.6  | 57.8  | 55.6 | 26.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 82.5° | 11.1  | 13.3  | 11.1 | 6.7  | 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-730-U-LBC

**CANDELA DISTRIBUTION (continued):**

|       | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0°    | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 |
| 2.5°  | 11.1 | 11.1 | 11.1 | 11.1 | 13.3 | 13.3 | 17.8 | 22.2 | 26.7 | 28.9 | 28.9 |
| 5°    | 8.9  | 8.9  | 8.9  | 8.9  | 8.9  | 11.1 | 13.3 | 17.8 | 24.5 | 26.7 | 26.7 |
| 7.5°  | 6.7  | 6.7  | 6.7  | 6.7  | 6.7  | 6.7  | 11.1 | 15.6 | 22.2 | 24.5 | 26.7 |
| 10°   | 6.7  | 4.4  | 4.4  | 2.2  | 2.2  | 4.4  | 6.7  | 13.3 | 20.0 | 22.2 | 24.5 |
| 12.5° | 4.4  | 2.2  | 2.2  | 0.0  | 0.0  | 2.2  | 4.4  | 11.1 | 17.8 | 20.0 | 22.2 |
| 15°   | 2.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  | 8.9  | 15.6 | 17.8 | 22.2 |
| 17.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.7  | 13.3 | 17.8 | 20.0 |
| 20°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.4  | 11.1 | 15.6 | 17.8 |
| 22.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  | 8.9  | 13.3 | 15.6 |
| 25°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.7  | 8.9  | 11.1 |
| 27.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.4  | 6.7  | 8.9  |
| 30°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.4  | 6.7  | 8.9  |
| 32.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  | 4.4  | 6.7  |
| 35°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  | 4.4  | 6.7  |
| 37.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  | 4.4  | 4.4  |
| 40°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  | 4.4  |
| 42.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  | 4.4  |
| 45°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  | 4.4  |
| 47.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  | 4.4  |
| 50°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  | 4.4  |
| 52.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  | 2.2  |
| 55°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  | 2.2  |
| 57.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  |
| 59°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  |
| 60°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  |
| 62.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  |
| 65°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  |
| 67.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  |
| 70°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  |
| 72.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  |
| 75°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  | 2.2  |
| 77.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  | 4.4  |
| 80°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  | 4.4  |
| 82.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  | 2.2  |
| 85°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  | 2.2  |
| 87.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  | 2.2  |
| 90°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

REPORT NUMBER: P1066746

CATALOG NUMBER: NVN-SA2B-730-U-LBC

**CANDELA DISTRIBUTION (continued):**

|       | 285° | 295° | 305° | 315° | 318° | 325° | 335° | 345° | 355°  | 360°  |
|-------|------|------|------|------|------|------|------|------|-------|-------|
| 0°    | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0  | 20.0  |
| 2.5°  | 31.1 | 31.1 | 28.9 | 26.7 | 26.7 | 26.7 | 28.9 | 31.1 | 31.1  | 31.1  |
| 5°    | 28.9 | 28.9 | 26.7 | 26.7 | 26.7 | 26.7 | 28.9 | 33.4 | 35.6  | 35.6  |
| 7.5°  | 28.9 | 28.9 | 26.7 | 26.7 | 26.7 | 26.7 | 28.9 | 33.4 | 35.6  | 37.8  |
| 10°   | 26.7 | 26.7 | 26.7 | 26.7 | 24.5 | 26.7 | 28.9 | 33.4 | 40.0  | 40.0  |
| 12.5° | 26.7 | 26.7 | 26.7 | 26.7 | 24.5 | 26.7 | 31.1 | 35.6 | 42.3  | 44.5  |
| 15°   | 26.7 | 26.7 | 26.7 | 24.5 | 24.5 | 26.7 | 31.1 | 37.8 | 44.5  | 48.9  |
| 17.5° | 24.5 | 26.7 | 26.7 | 24.5 | 24.5 | 26.7 | 31.1 | 37.8 | 48.9  | 55.6  |
| 20°   | 22.2 | 24.5 | 26.7 | 24.5 | 24.5 | 24.5 | 31.1 | 37.8 | 51.2  | 60.0  |
| 22.5° | 20.0 | 22.2 | 24.5 | 24.5 | 22.2 | 24.5 | 31.1 | 40.0 | 55.6  | 66.7  |
| 25°   | 17.8 | 20.0 | 20.0 | 22.2 | 22.2 | 24.5 | 31.1 | 40.0 | 57.8  | 75.6  |
| 27.5° | 13.3 | 15.6 | 17.8 | 20.0 | 20.0 | 24.5 | 31.1 | 42.3 | 62.3  | 93.4  |
| 30°   | 11.1 | 13.3 | 15.6 | 17.8 | 20.0 | 24.5 | 31.1 | 42.3 | 66.7  | 117.9 |
| 32.5° | 11.1 | 13.3 | 15.6 | 17.8 | 20.0 | 22.2 | 31.1 | 44.5 | 73.4  | 146.8 |
| 35°   | 8.9  | 11.1 | 13.3 | 17.8 | 17.8 | 22.2 | 31.1 | 44.5 | 80.1  | 191.3 |
| 37.5° | 8.9  | 11.1 | 13.3 | 17.8 | 17.8 | 22.2 | 31.1 | 44.5 | 97.9  | 213.5 |
| 40°   | 6.7  | 8.9  | 11.1 | 17.8 | 17.8 | 22.2 | 33.4 | 46.7 | 100.1 | 215.7 |
| 42.5° | 6.7  | 8.9  | 11.1 | 15.6 | 17.8 | 22.2 | 33.4 | 46.7 | 93.4  | 222.4 |
| 45°   | 6.7  | 8.9  | 11.1 | 17.8 | 20.0 | 24.5 | 33.4 | 48.9 | 91.2  | 253.5 |
| 47.5° | 6.7  | 8.9  | 11.1 | 17.8 | 22.2 | 24.5 | 33.4 | 48.9 | 93.4  | 362.5 |
| 50°   | 6.7  | 8.9  | 11.1 | 17.8 | 24.5 | 24.5 | 33.4 | 48.9 | 102.3 | 582.7 |
| 52.5° | 4.4  | 6.7  | 8.9  | 15.6 | 20.0 | 26.7 | 35.6 | 46.7 | 109.0 | 778.4 |
| 55°   | 4.4  | 4.4  | 6.7  | 13.3 | 17.8 | 28.9 | 37.8 | 46.7 | 126.8 | 827.3 |
| 57.5° | 4.4  | 4.4  | 6.7  | 11.1 | 15.6 | 31.1 | 40.0 | 46.7 | 146.8 | 802.9 |
| 59°   | 4.4  | 4.4  | 4.4  | 11.1 | 13.3 | 31.1 | 40.0 | 48.9 | 149.0 | 760.6 |
| 60°   | 4.4  | 4.4  | 4.4  | 8.9  | 13.3 | 31.1 | 42.3 | 51.2 | 151.2 | 711.7 |
| 62.5° | 2.2  | 2.2  | 2.2  | 8.9  | 11.1 | 31.1 | 46.7 | 62.3 | 155.7 | 549.3 |
| 65°   | 4.4  | 4.4  | 2.2  | 6.7  | 11.1 | 26.7 | 53.4 | 66.7 | 157.9 | 427.0 |
| 67.5° | 4.4  | 4.4  | 4.4  | 8.9  | 11.1 | 26.7 | 55.6 | 68.9 | 157.9 | 338.1 |
| 70°   | 4.4  | 4.4  | 4.4  | 8.9  | 13.3 | 26.7 | 55.6 | 71.2 | 155.7 | 275.8 |
| 72.5° | 4.4  | 4.4  | 4.4  | 8.9  | 13.3 | 24.5 | 51.2 | 73.4 | 149.0 | 233.5 |
| 75°   | 4.4  | 4.4  | 4.4  | 6.7  | 11.1 | 22.2 | 48.9 | 80.1 | 135.7 | 197.9 |
| 77.5° | 4.4  | 4.4  | 4.4  | 4.4  | 8.9  | 17.8 | 44.5 | 89.0 | 120.1 | 160.1 |
| 80°   | 6.7  | 4.4  | 4.4  | 4.4  | 6.7  | 15.6 | 42.3 | 86.7 | 100.1 | 104.5 |
| 82.5° | 6.7  | 4.4  | 4.4  | 2.2  | 4.4  | 11.1 | 33.4 | 66.7 | 51.2  | 46.7  |
| 85°   | 4.4  | 4.4  | 4.4  | 2.2  | 2.2  | 6.7  | 15.6 | 20.0 | 15.6  | 11.1  |
| 87.5° | 4.4  | 4.4  | 4.4  | 2.2  | 2.2  | 2.2  | 2.2  | 2.2  | 2.2   | 2.2   |
| 90°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   |

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-4

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

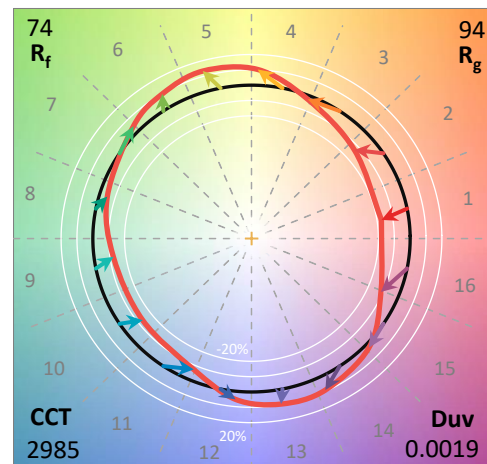
### Test Information

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  
 CIE  $u'$ : 0.2504  
 CIE  $v'$ : 0.5243  
 Duv: 0.0019  
 CIE x: 0.4408  
 CIE y: 0.4101  
 CIE z: 0.1491  
 Peak Wavelength (nm): 595  
 Dominant Wavelength (nm): 582  
 Purity: 55.41818  
 R<sub>f</sub>: 73.8  
 R<sub>g</sub>: 94.4

CRI (Ra): 70.8  
 R1: 66.3  
 R2: 80.6  
 R3: 94.5  
 R4: 68.2  
 R5: 66.5  
 R6: 74.7  
 R7: 76.2  
 R8: 39.6  
 R9: -43.2  
 R10: 57.6  
 R11: 64.8  
 R12: 53.5  
 R13: 68.7  
 R14: 97.0  
 R15: 56.4



### Test Conditions

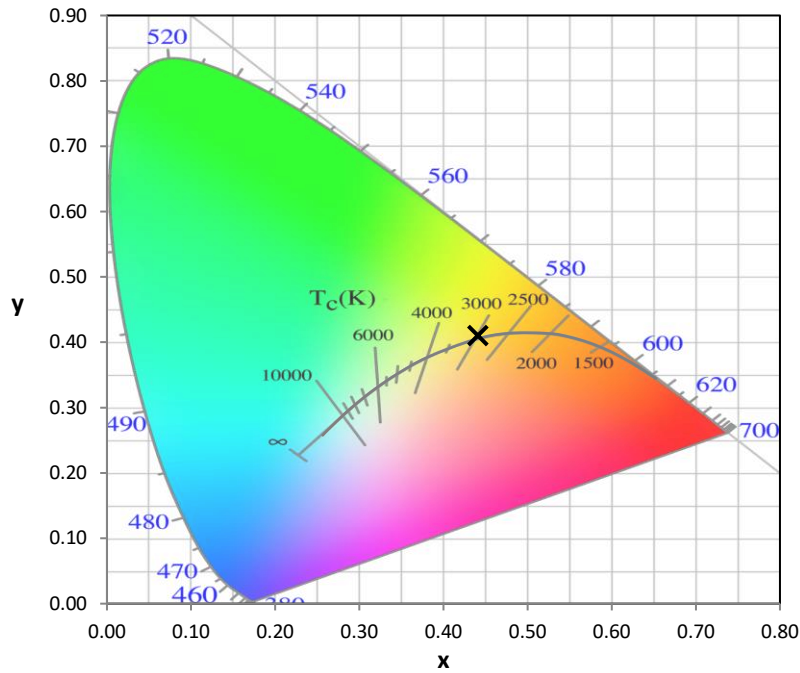
Stabilization Time: 36M  
 Operation Time: 1H 36M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

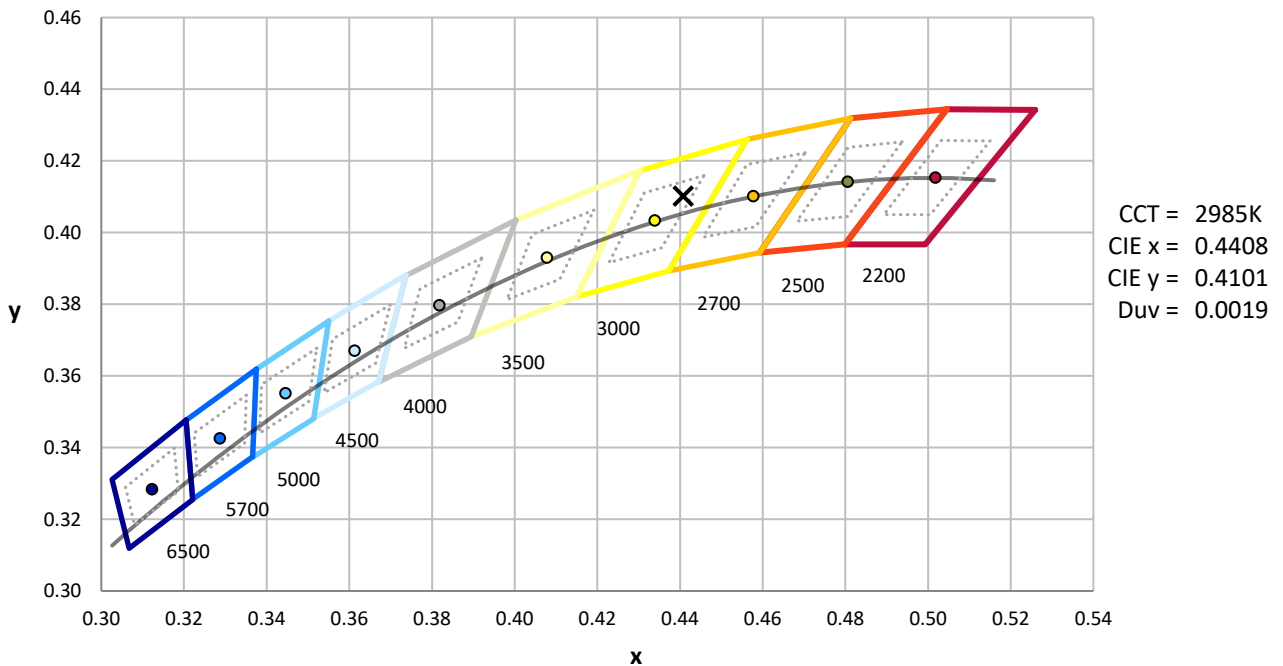
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date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



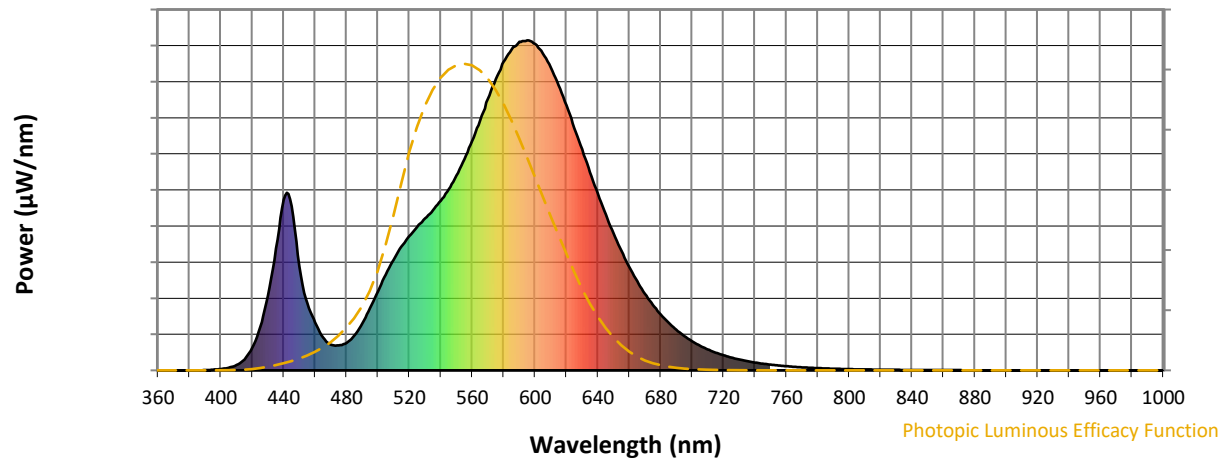
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

### Photopic Flux vs. Wavelength

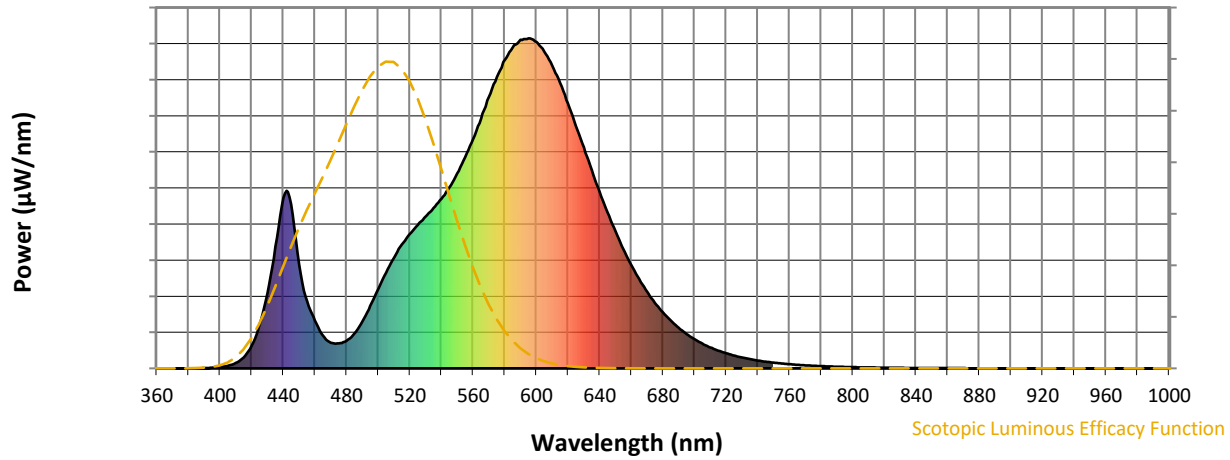


### Photopic Lumens: NR

| $\lambda$<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

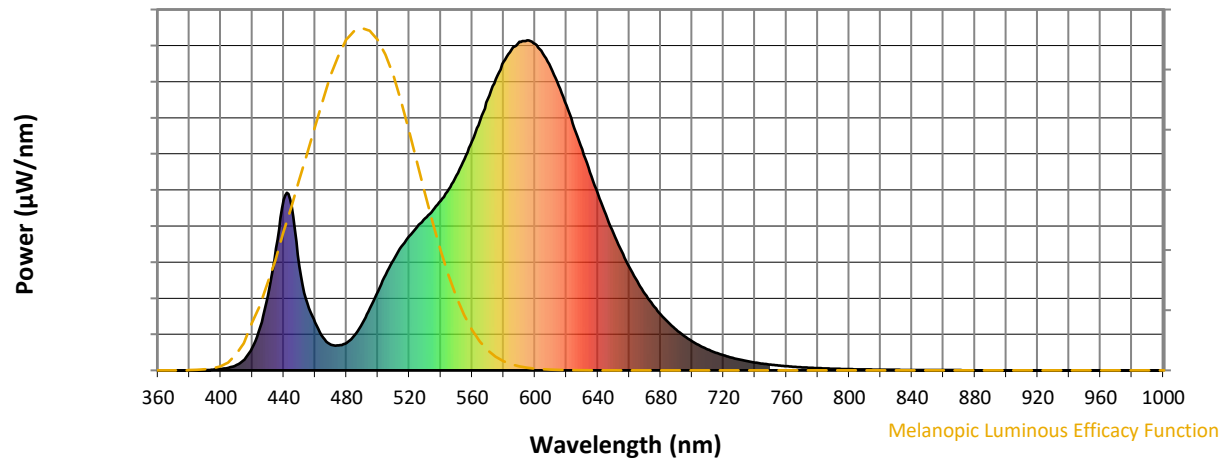
S/P: 1.19

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

### Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.13

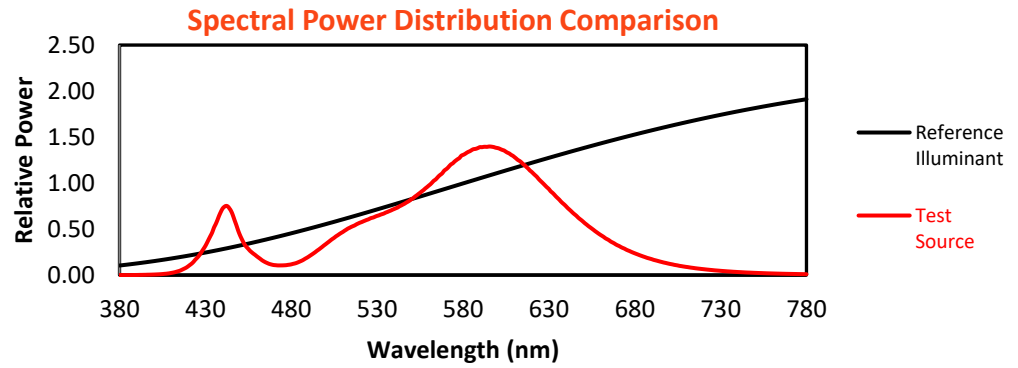
| λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(φ/nm)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

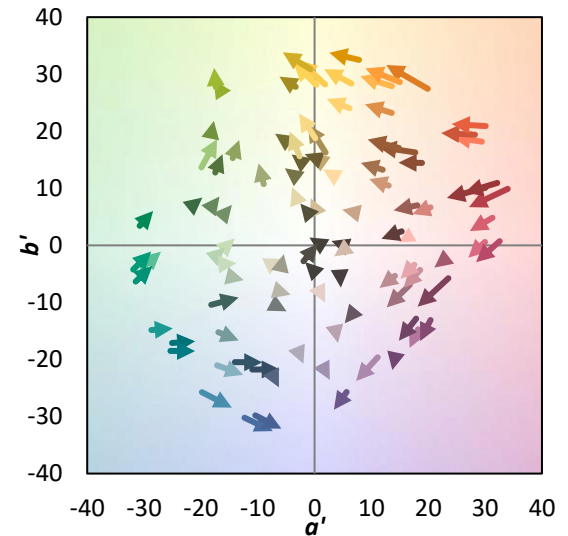
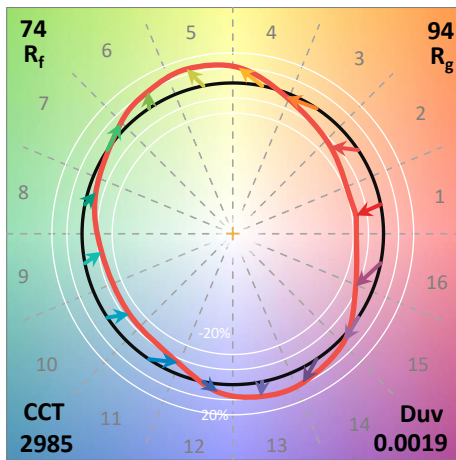
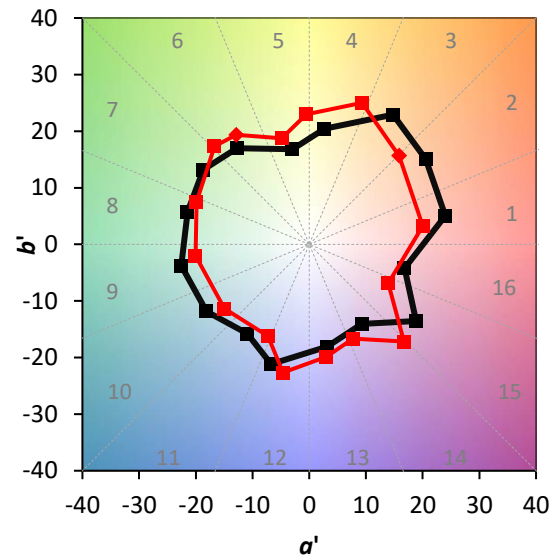
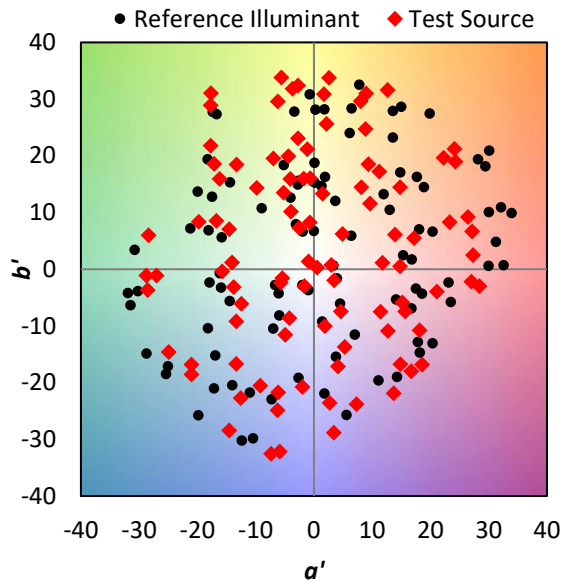
TM-30-18

### Summary

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

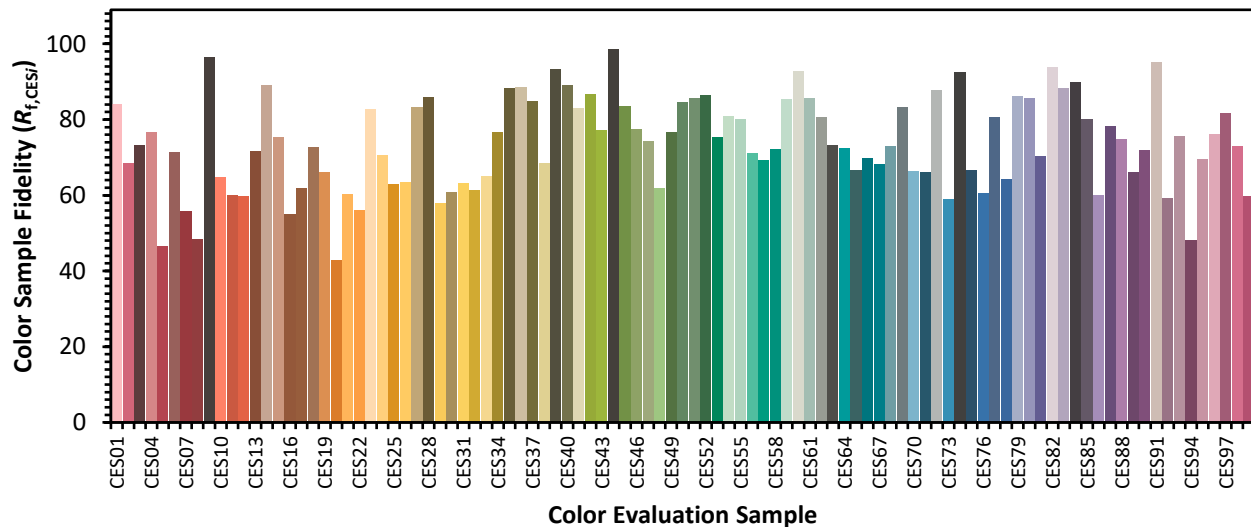


### Color Vector Graphics

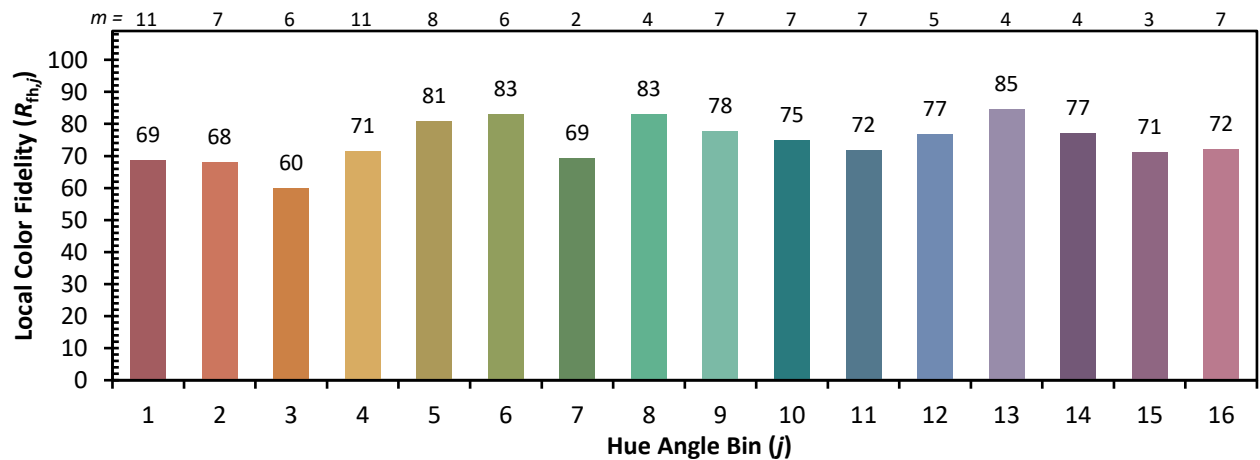
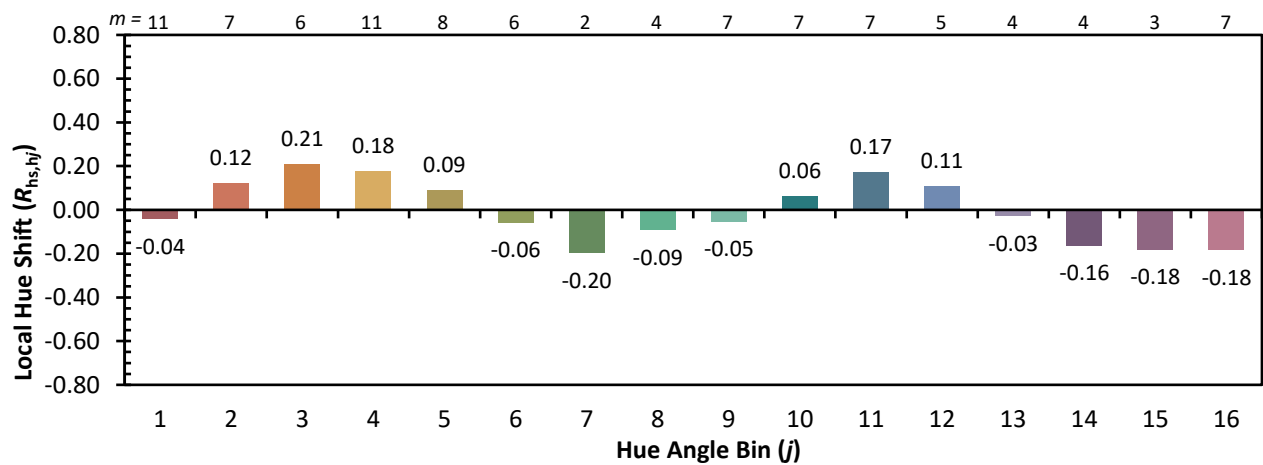
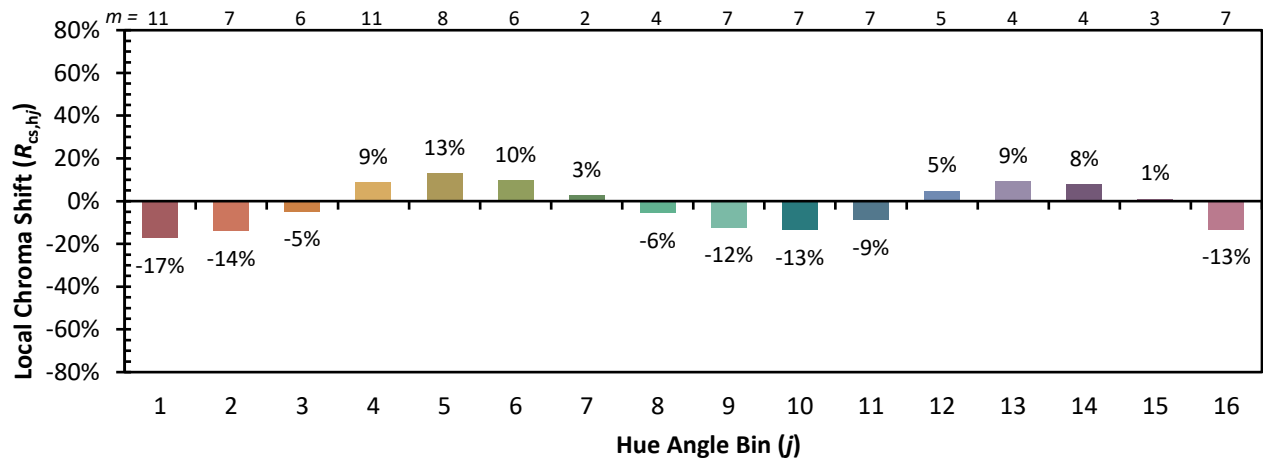


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

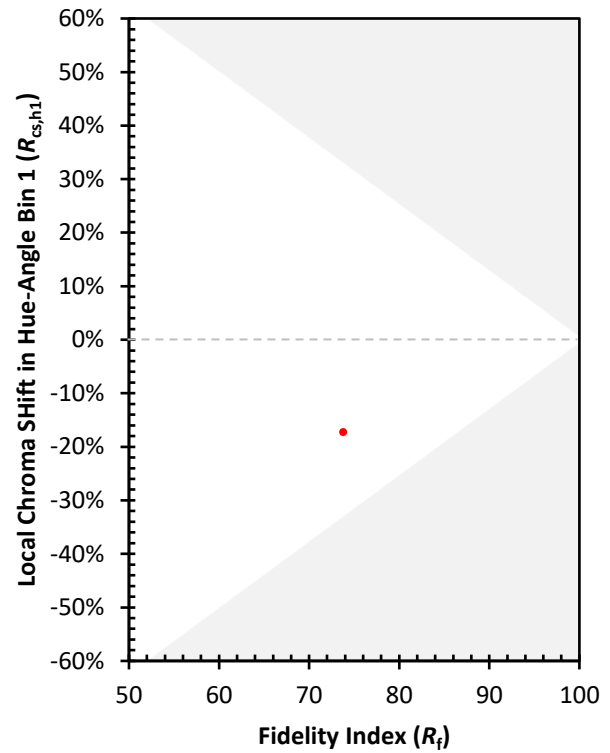
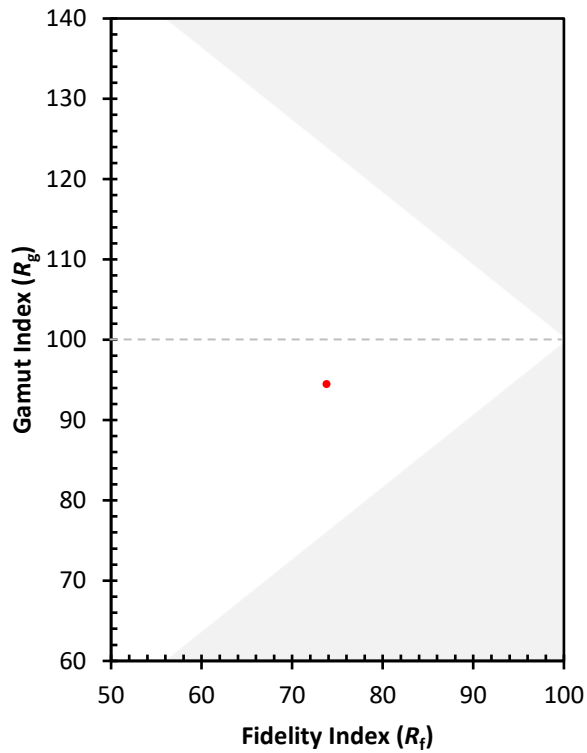
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 63 | CES51 = 86 | CES76 = 61 |
| CES02 = 62 | CES27 = 83 | CES52 = 86 | CES77 = 81 |
| CES03 = 31 | CES28 = 86 | CES53 = 75 | CES78 = 64 |
| CES04 = 71 | CES29 = 58 | CES54 = 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)