

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: P1066792

Luminaire Tested: **NVN-SA1D-750-U-LBC**

Issue Date: 08/07/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1066792  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 08/07/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SA1D-750-U-LBC  
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 1xLight Square PACKAGE  
70CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (14) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5492.9 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G2

Input Watts (W): 56.5  
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



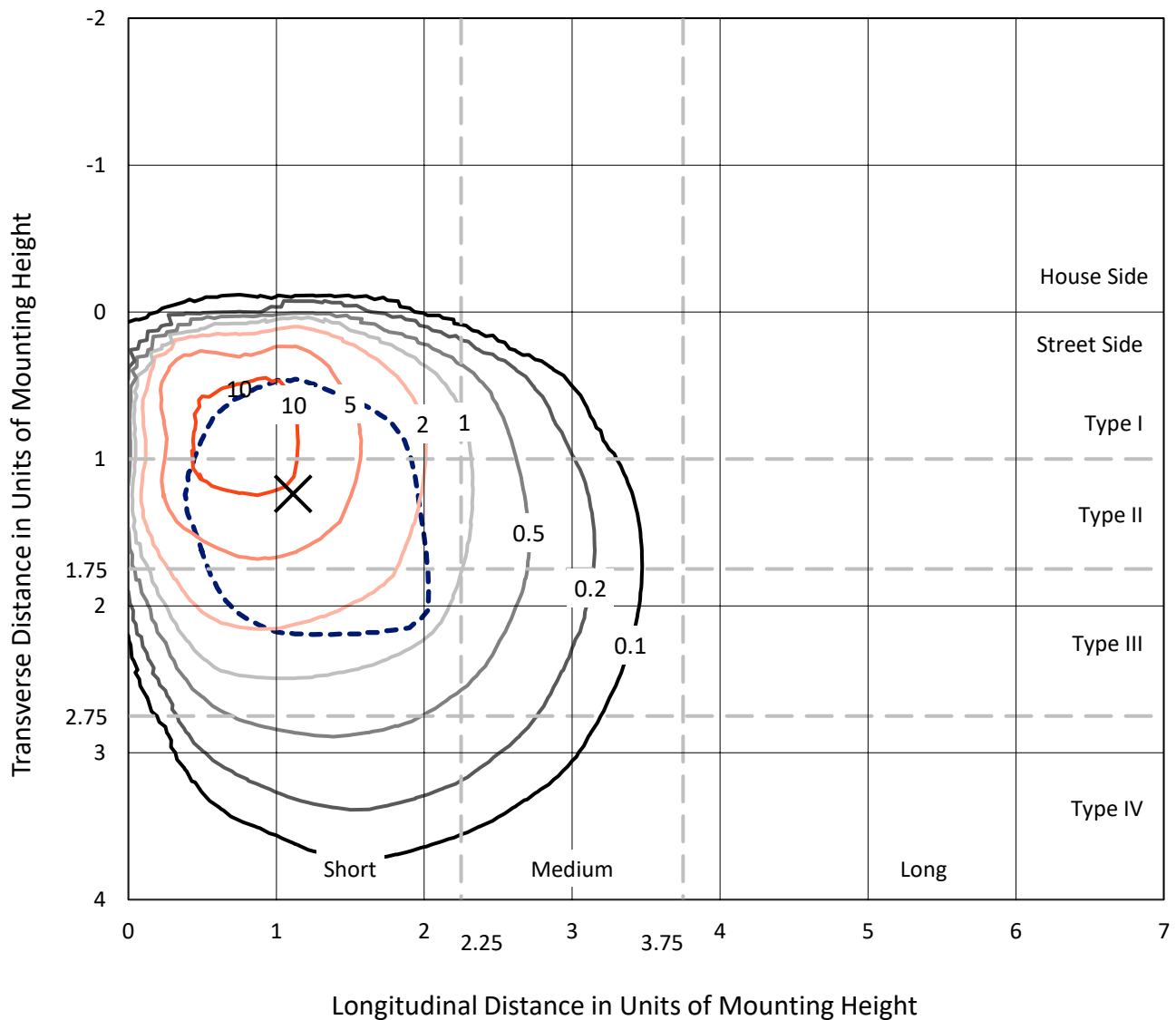
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CATALOG NUMBER: NVN-SA1D-750-U-LBC

## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

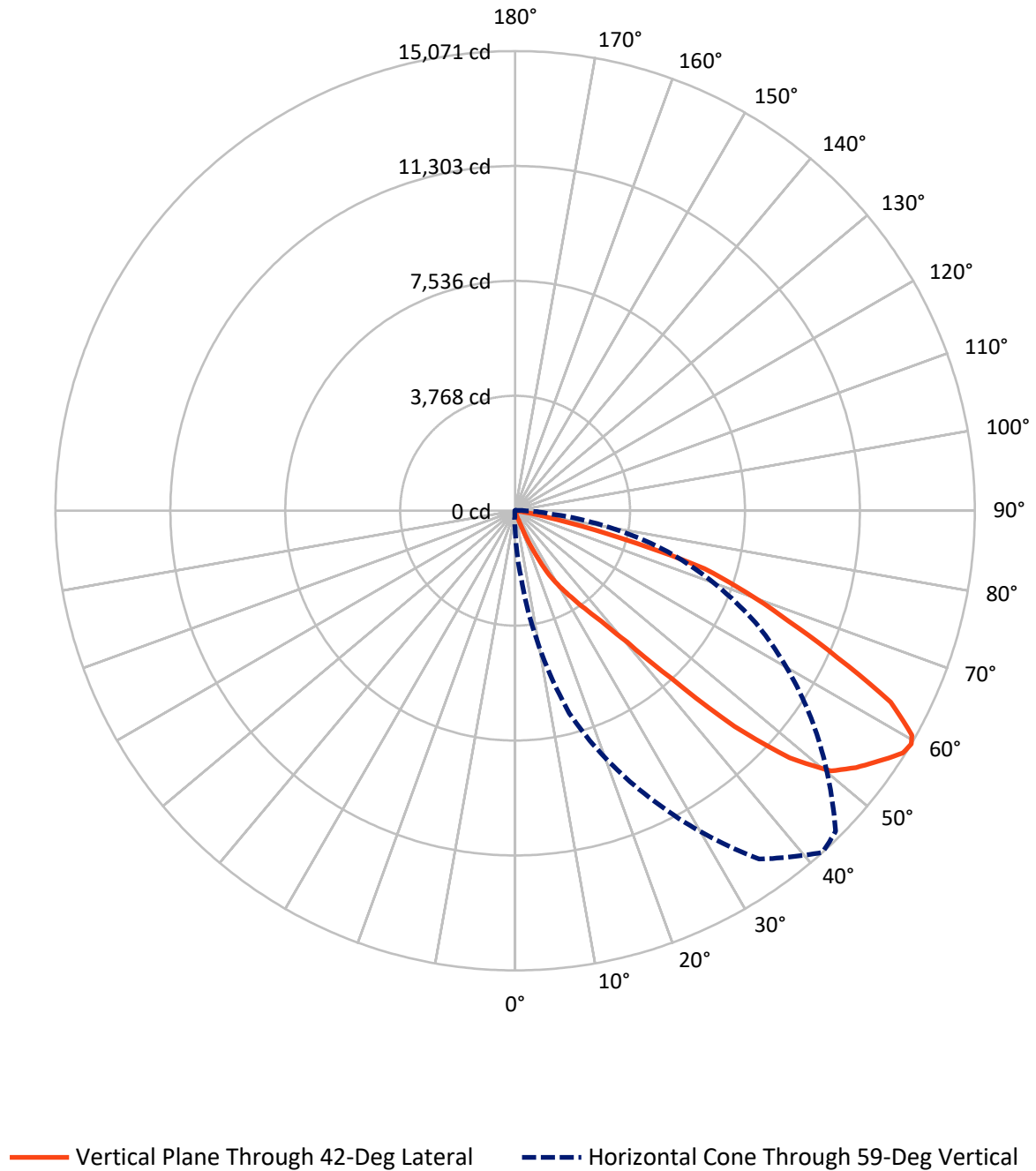


Based on 15 foot mounting height. Maximum calculated value = 16.3 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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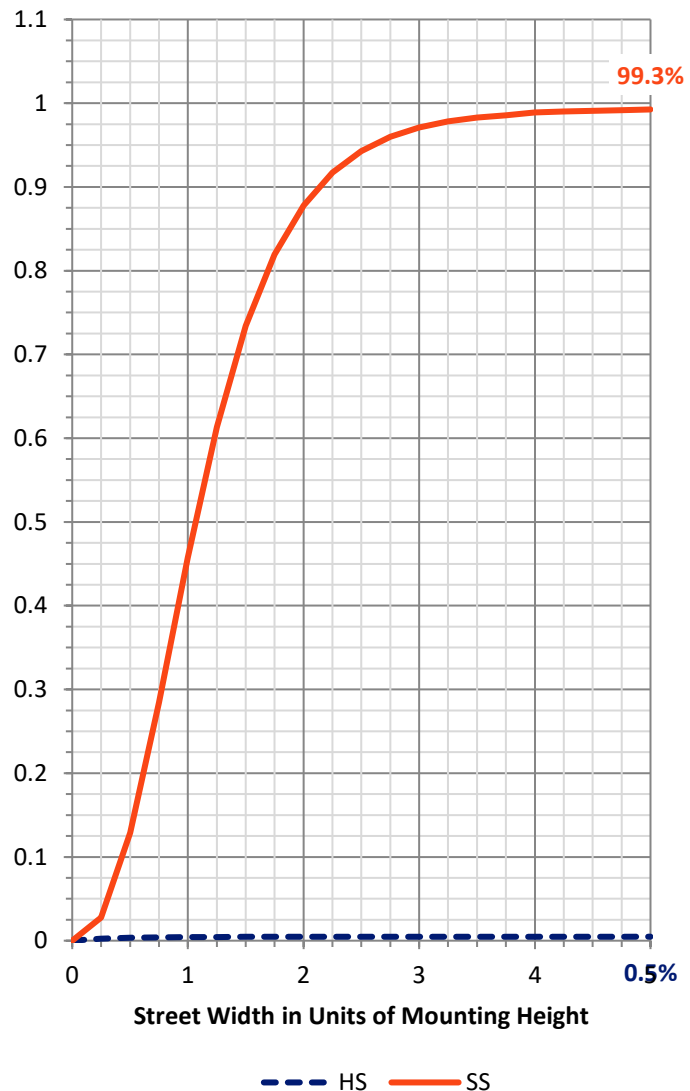
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 26.5     | 0.0    | 26.5   |
|                    | % Fixture | 0.5      | 0.0    | 0.5    |
| <b>Street Side</b> | Lumens    | 5466.4   | 0.0    | 5466.4 |
|                    | % Fixture | 99.5     | 0.0    | 99.5   |
| <b>Total</b>       | Lumens    | 5492.9   | 0.0    | 5492.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.6    | 0.0       |
| 10°-20°   | 8.0    | 0.1       |
| 20°-30°   | 102.5  | 1.9       |
| 30°-40°   | 345.4  | 6.3       |
| 40°-50°   | 1043.4 | 19.0      |
| 50°-60°   | 1841.8 | 33.5      |
| 60°-70°   | 1621.7 | 29.5      |
| 70°-80°   | 516.2  | 9.4       |
| 80°-90°   | 12.3   | 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°    | 5492.9 | 100.0     |
| 0°-180°   | 5492.9 | 100.0     |



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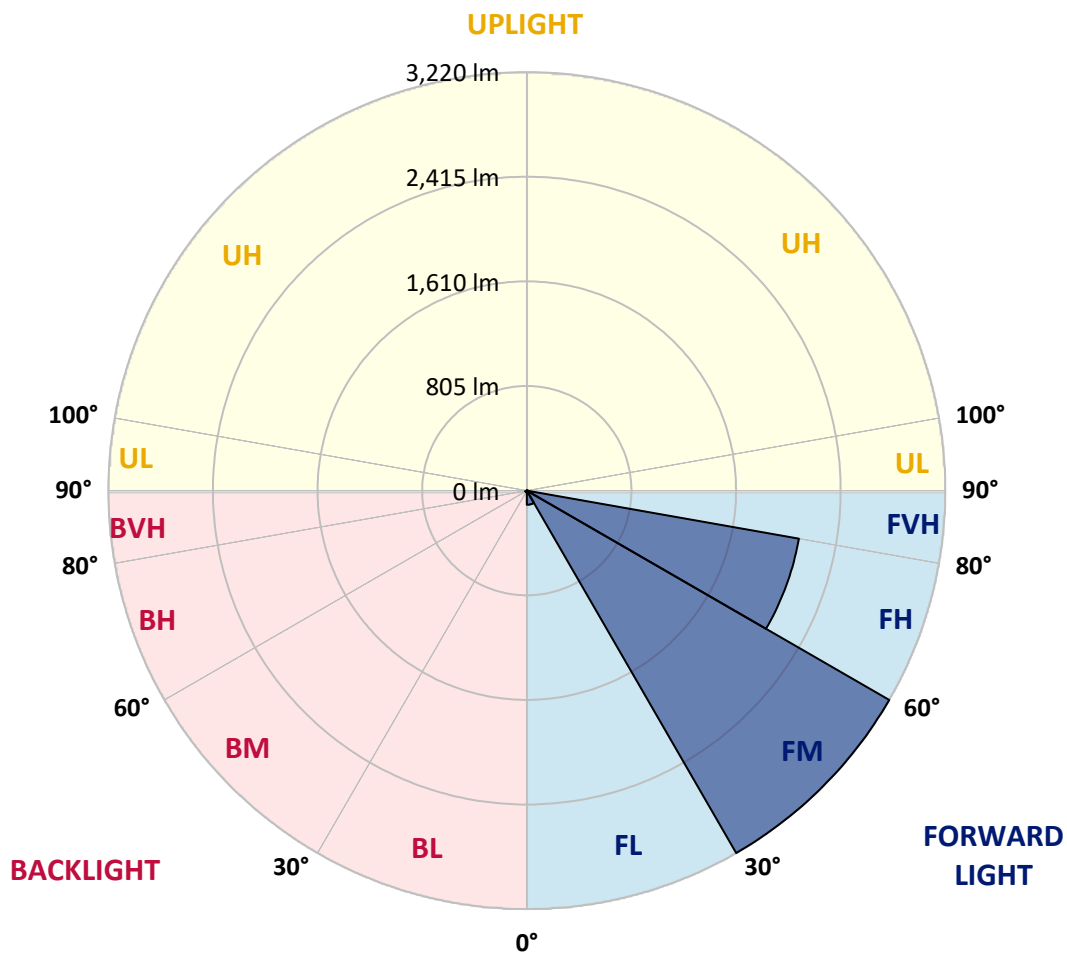
CATALOG NUMBER: NVN-SA1D-750-U-LBC

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 109.1  | 2.0       |                         |      |         |
| FM   | (30°-60°)   | 3219.7 | 58.6      |                         |      |         |
| FH   | (60°-80°)   | 2125.8 | 38.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 11.7   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 3.0    | 0.1       | B0/110                  |      |         |
| BM   | (30°-60°)   | 10.8   | 0.2       | B0/220                  |      |         |
| BH   | (60°-80°)   | 12.1   | 0.2       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.6    | 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°    | 15.5  | 15.5   | 15.5   | 15.5    | 15.5    | 15.5    | 15.5    | 15.5    | 15.5   | 15.5   | 15.5   |
| 2.5°  | 24.1  | 24.1   | 22.4   | 20.7    | 18.9    | 17.2    | 17.2    | 17.2    | 15.5   | 15.5   | 13.8   |
| 5°    | 27.6  | 27.6   | 25.8   | 24.1    | 24.1    | 22.4    | 22.4    | 20.7    | 18.9   | 18.9   | 17.2   |
| 7.5°  | 29.3  | 29.3   | 29.3   | 29.3    | 27.6    | 27.6    | 27.6    | 25.8    | 24.1   | 22.4   | 20.7   |
| 10°   | 31.0  | 32.7   | 34.4   | 34.4    | 34.4    | 34.4    | 34.4    | 32.7    | 29.3   | 27.6   | 24.1   |
| 12.5° | 34.4  | 36.2   | 39.6   | 43.1    | 43.1    | 44.8    | 43.1    | 41.3    | 37.9   | 32.7   | 27.6   |
| 15°   | 37.9  | 41.3   | 46.5   | 53.4    | 60.3    | 62.0    | 62.0    | 56.8    | 49.9   | 39.6   | 32.7   |
| 17.5° | 43.1  | 48.2   | 62.0   | 84.4    | 108.5   | 127.4   | 127.4   | 113.7   | 79.2   | 51.7   | 37.9   |
| 20°   | 46.5  | 56.8   | 99.9   | 203.2   | 310.0   | 389.2   | 373.7   | 330.7   | 177.4  | 80.9   | 41.3   |
| 22.5° | 51.7  | 72.3   | 211.8  | 533.9   | 826.7   | 971.3   | 936.9   | 711.3   | 397.8  | 144.7  | 49.9   |
| 25°   | 58.6  | 105.1  | 420.2  | 1000.6  | 1536.2  | 1692.9  | 1670.5  | 1327.8  | 725.0  | 242.8  | 63.7   |
| 27.5° | 72.3  | 155.0  | 673.4  | 1517.3  | 2266.4  | 2400.8  | 2392.1  | 1944.4  | 1159.0 | 390.9  | 82.7   |
| 30°   | 91.3  | 225.6  | 998.9  | 2061.5  | 2750.4  | 2886.4  | 2843.4  | 2395.6  | 1563.8 | 597.6  | 106.8  |
| 32.5° | 113.7 | 315.2  | 1293.4 | 2462.8  | 3196.4  | 3375.5  | 3323.9  | 2788.2  | 1889.3 | 773.3  | 158.4  |
| 35°   | 148.1 | 403.0  | 1584.4 | 2817.5  | 3711.3  | 3938.7  | 3852.6  | 3193.0  | 2170.0 | 971.3  | 191.2  |
| 37.5° | 165.3 | 454.7  | 1851.4 | 3203.3  | 4290.0  | 4600.0  | 4534.6  | 3704.5  | 2455.9 | 1224.5 | 234.2  |
| 40°   | 167.1 | 516.7  | 2128.6 | 3706.2  | 5108.1  | 5660.9  | 5543.8  | 4582.8  | 2988.0 | 1550.0 | 301.4  |
| 42.5° | 172.2 | 609.7  | 2488.6 | 4563.8  | 6714.9  | 7508.8  | 7376.2  | 6198.2  | 4195.3 | 2202.7 | 427.1  |
| 45°   | 196.3 | 785.3  | 3222.2 | 6167.2  | 8921.0  | 10085.2 | 9931.9  | 8449.1  | 5881.3 | 3430.6 | 728.5  |
| 47.5° | 280.7 | 1181.4 | 4508.7 | 7898.0  | 11177.1 | 12105.4 | 12067.5 | 10223.0 | 7408.9 | 4689.6 | 1234.8 |
| 50°   | 451.2 | 1813.5 | 5972.6 | 9353.3  | 12613.4 | 13410.8 | 13316.1 | 10963.5 | 8280.4 | 5548.9 | 1582.7 |
| 52.5° | 602.8 | 2418.0 | 6892.3 | 9888.9  | 13042.2 | 13992.9 | 13877.5 | 11233.9 | 8509.4 | 5802.1 | 1679.1 |
| 55°   | 640.7 | 2636.7 | 7166.1 | 10054.2 | 13326.4 | 14485.5 | 14318.4 | 11414.8 | 8538.7 | 5621.3 | 1519.0 |
| 57.5° | 621.7 | 2430.0 | 6988.7 | 10216.1 | 13722.5 | 14991.8 | 14769.6 | 11767.8 | 8636.9 | 5314.7 | 1264.1 |
| 59°   | 589.0 | 2175.1 | 6878.5 | 10345.3 | 13941.2 | 15071.0 | 14862.6 | 11845.3 | 8702.3 | 5175.2 | 1109.1 |
| 60°   | 551.1 | 2002.9 | 6792.4 | 10429.7 | 13927.5 | 14947.0 | 14731.7 | 11809.1 | 8728.1 | 5054.7 | 1035.0 |
| 62.5° | 425.4 | 1598.2 | 6668.4 | 10369.4 | 13057.7 | 13815.5 | 13693.2 | 10923.9 | 8349.2 | 4668.9 | 816.3  |
| 65°   | 330.7 | 1222.8 | 6213.7 | 9248.2  | 11111.7 | 11621.4 | 11583.5 | 9250.0  | 7026.6 | 4024.8 | 589.0  |
| 67.5° | 261.8 | 892.1  | 5254.4 | 7489.9  | 8940.0  | 9665.0  | 9637.5  | 7508.8  | 5333.7 | 3075.9 | 423.7  |
| 70°   | 213.6 | 635.5  | 3602.8 | 5647.1  | 7150.6  | 8063.4  | 8023.7  | 6043.2  | 3952.5 | 1951.3 | 308.3  |
| 72.5° | 180.8 | 406.4  | 2185.5 | 4257.3  | 5967.4  | 6489.3  | 6373.9  | 4875.6  | 2874.4 | 1062.6 | 244.6  |
| 75°   | 153.3 | 249.7  | 1083.3 | 2653.9  | 3554.6  | 3551.2  | 3435.8  | 2581.6  | 1543.1 | 520.1  | 194.6  |
| 77.5° | 124.0 | 175.7  | 425.4  | 728.5   | 1121.2  | 1388.1  | 1365.7  | 914.5   | 461.6  | 151.6  | 120.6  |
| 80°   | 80.9  | 82.7   | 113.7  | 199.8   | 308.3   | 341.0   | 387.5   | 279.0   | 134.3  | 72.3   | 49.9   |
| 82.5° | 36.2  | 39.6   | 51.7   | 65.4    | 65.4    | 60.3    | 53.4    | 39.6    | 29.3   | 24.1   | 12.1   |
| 85°   | 8.6   | 12.1   | 8.6    | 10.3    | 8.6     | 6.9     | 6.9     | 3.4     | 0.0    | 0.0    | 0.0    |
| 87.5° | 1.7   | 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°    | 15.5  | 15.5  | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 |
| 2.5°  | 13.8  | 13.8  | 13.8 | 12.1 | 12.1 | 12.1 | 10.3 | 10.3 | 10.3 | 8.6  | 8.6  |
| 5°    | 17.2  | 15.5  | 13.8 | 13.8 | 12.1 | 12.1 | 10.3 | 8.6  | 8.6  | 8.6  | 6.9  |
| 7.5°  | 18.9  | 17.2  | 15.5 | 13.8 | 12.1 | 10.3 | 10.3 | 8.6  | 6.9  | 6.9  | 6.9  |
| 10°   | 22.4  | 20.7  | 17.2 | 13.8 | 12.1 | 10.3 | 8.6  | 8.6  | 6.9  | 5.2  | 5.2  |
| 12.5° | 25.8  | 22.4  | 18.9 | 15.5 | 12.1 | 10.3 | 8.6  | 8.6  | 6.9  | 5.2  | 3.4  |
| 15°   | 29.3  | 25.8  | 20.7 | 15.5 | 12.1 | 10.3 | 8.6  | 8.6  | 5.2  | 3.4  | 1.7  |
| 17.5° | 32.7  | 27.6  | 20.7 | 17.2 | 12.1 | 10.3 | 8.6  | 6.9  | 3.4  | 1.7  | 0.0  |
| 20°   | 34.4  | 29.3  | 22.4 | 17.2 | 12.1 | 10.3 | 8.6  | 5.2  | 1.7  | 0.0  | 0.0  |
| 22.5° | 37.9  | 32.7  | 24.1 | 17.2 | 12.1 | 8.6  | 5.2  | 1.7  | 0.0  | 0.0  | 0.0  |
| 25°   | 44.8  | 34.4  | 24.1 | 17.2 | 12.1 | 8.6  | 3.4  | 0.0  | 0.0  | 0.0  | 0.0  |
| 27.5° | 49.9  | 37.9  | 24.1 | 17.2 | 12.1 | 6.9  | 1.7  | 0.0  | 0.0  | 0.0  | 0.0  |
| 30°   | 58.6  | 41.3  | 25.8 | 17.2 | 12.1 | 5.2  | 1.7  | 0.0  | 0.0  | 0.0  | 0.0  |
| 32.5° | 72.3  | 44.8  | 25.8 | 17.2 | 10.3 | 5.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 35°   | 87.8  | 51.7  | 25.8 | 17.2 | 10.3 | 5.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 37.5° | 89.6  | 55.1  | 25.8 | 17.2 | 10.3 | 3.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 40°   | 93.0  | 51.7  | 27.6 | 17.2 | 10.3 | 3.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 42.5° | 106.8 | 48.2  | 29.3 | 17.2 | 10.3 | 3.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 45°   | 158.4 | 49.9  | 29.3 | 18.9 | 10.3 | 5.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 47.5° | 275.6 | 51.7  | 27.6 | 18.9 | 10.3 | 5.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 50°   | 353.1 | 60.3  | 27.6 | 20.7 | 12.1 | 3.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 52.5° | 375.4 | 70.6  | 27.6 | 22.4 | 15.5 | 1.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 55°   | 365.1 | 82.7  | 29.3 | 24.1 | 18.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 57.5° | 337.6 | 89.6  | 31.0 | 25.8 | 20.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 59°   | 308.3 | 94.7  | 36.2 | 27.6 | 20.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 60°   | 284.2 | 99.9  | 37.9 | 29.3 | 20.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 62.5° | 229.1 | 106.8 | 41.3 | 34.4 | 17.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 65°   | 199.8 | 111.9 | 43.1 | 37.9 | 15.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 67.5° | 182.6 | 115.4 | 46.5 | 39.6 | 13.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 70°   | 168.8 | 113.7 | 49.9 | 37.9 | 12.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 72.5° | 153.3 | 108.5 | 60.3 | 34.4 | 10.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 75°   | 137.8 | 98.2  | 65.4 | 31.0 | 6.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 77.5° | 99.9  | 82.7  | 60.3 | 27.6 | 3.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 80°   | 43.1  | 44.8  | 43.1 | 20.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 82.5° | 8.6   | 10.3  | 8.6  | 5.2  | 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-SA1D-750-U-LBC

**CANDELA DISTRIBUTION (continued):**

|       | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0°    | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 |
| 2.5°  | 8.6  | 8.6  | 8.6  | 8.6  | 10.3 | 10.3 | 13.8 | 17.2 | 20.7 | 22.4 | 22.4 |
| 5°    | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 8.6  | 10.3 | 13.8 | 18.9 | 20.7 | 20.7 |
| 7.5°  | 5.2  | 5.2  | 5.2  | 5.2  | 5.2  | 5.2  | 8.6  | 12.1 | 17.2 | 18.9 | 20.7 |
| 10°   | 5.2  | 3.4  | 3.4  | 1.7  | 1.7  | 3.4  | 5.2  | 10.3 | 15.5 | 17.2 | 18.9 |
| 12.5° | 3.4  | 1.7  | 1.7  | 0.0  | 0.0  | 1.7  | 3.4  | 8.6  | 13.8 | 15.5 | 17.2 |
| 15°   | 1.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  | 6.9  | 12.1 | 13.8 | 17.2 |
| 17.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.2  | 10.3 | 13.8 | 15.5 |
| 20°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.4  | 8.6  | 12.1 | 13.8 |
| 22.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  | 6.9  | 10.3 | 12.1 |
| 25°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.2  | 6.9  | 8.6  |
| 27.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.4  | 5.2  | 6.9  |
| 30°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.4  | 5.2  | 6.9  |
| 32.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  | 3.4  | 5.2  |
| 35°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  | 3.4  | 5.2  |
| 37.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  | 3.4  | 3.4  |
| 40°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  | 3.4  |
| 42.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  | 3.4  |
| 45°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  | 3.4  |
| 47.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  | 3.4  |
| 50°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  | 3.4  |
| 52.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  | 1.7  |
| 55°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  | 1.7  |
| 57.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  |
| 59°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  |
| 60°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  |
| 62.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  |
| 65°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  |
| 67.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  |
| 70°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  |
| 72.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  |
| 75°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  | 1.7  |
| 77.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  | 3.4  |
| 80°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  | 3.4  |
| 82.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  | 1.7  |
| 85°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  | 1.7  |
| 87.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  | 1.7  |
| 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: P1066792

CATALOG NUMBER: NVN-SA1D-750-U-LBC

**CANDELA DISTRIBUTION (continued):**

|       | 285° | 295° | 305° | 315° | 318° | 325° | 335° | 345° | 355°  | 360°  |
|-------|------|------|------|------|------|------|------|------|-------|-------|
| 0°    | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5  | 15.5  |
| 2.5°  | 24.1 | 24.1 | 22.4 | 20.7 | 20.7 | 20.7 | 22.4 | 24.1 | 24.1  | 24.1  |
| 5°    | 22.4 | 22.4 | 20.7 | 20.7 | 20.7 | 20.7 | 22.4 | 25.8 | 27.6  | 27.6  |
| 7.5°  | 22.4 | 22.4 | 20.7 | 20.7 | 20.7 | 20.7 | 22.4 | 25.8 | 27.6  | 29.3  |
| 10°   | 20.7 | 20.7 | 20.7 | 20.7 | 18.9 | 20.7 | 22.4 | 25.8 | 31.0  | 31.0  |
| 12.5° | 20.7 | 20.7 | 20.7 | 20.7 | 18.9 | 20.7 | 24.1 | 27.6 | 32.7  | 34.4  |
| 15°   | 20.7 | 20.7 | 20.7 | 18.9 | 18.9 | 20.7 | 24.1 | 29.3 | 34.4  | 37.9  |
| 17.5° | 18.9 | 20.7 | 20.7 | 18.9 | 18.9 | 20.7 | 24.1 | 29.3 | 37.9  | 43.1  |
| 20°   | 17.2 | 18.9 | 20.7 | 18.9 | 18.9 | 18.9 | 24.1 | 29.3 | 39.6  | 46.5  |
| 22.5° | 15.5 | 17.2 | 18.9 | 18.9 | 17.2 | 18.9 | 24.1 | 31.0 | 43.1  | 51.7  |
| 25°   | 13.8 | 15.5 | 15.5 | 17.2 | 17.2 | 18.9 | 24.1 | 31.0 | 44.8  | 58.6  |
| 27.5° | 10.3 | 12.1 | 13.8 | 15.5 | 15.5 | 18.9 | 24.1 | 32.7 | 48.2  | 72.3  |
| 30°   | 8.6  | 10.3 | 12.1 | 13.8 | 15.5 | 18.9 | 24.1 | 32.7 | 51.7  | 91.3  |
| 32.5° | 8.6  | 10.3 | 12.1 | 13.8 | 15.5 | 17.2 | 24.1 | 34.4 | 56.8  | 113.7 |
| 35°   | 6.9  | 8.6  | 10.3 | 13.8 | 13.8 | 17.2 | 24.1 | 34.4 | 62.0  | 148.1 |
| 37.5° | 6.9  | 8.6  | 10.3 | 13.8 | 13.8 | 17.2 | 24.1 | 34.4 | 75.8  | 165.3 |
| 40°   | 5.2  | 6.9  | 8.6  | 13.8 | 13.8 | 17.2 | 25.8 | 36.2 | 77.5  | 167.1 |
| 42.5° | 5.2  | 6.9  | 8.6  | 12.1 | 13.8 | 17.2 | 25.8 | 36.2 | 72.3  | 172.2 |
| 45°   | 5.2  | 6.9  | 8.6  | 13.8 | 15.5 | 18.9 | 25.8 | 37.9 | 70.6  | 196.3 |
| 47.5° | 5.2  | 6.9  | 8.6  | 13.8 | 17.2 | 18.9 | 25.8 | 37.9 | 72.3  | 280.7 |
| 50°   | 5.2  | 6.9  | 8.6  | 13.8 | 18.9 | 18.9 | 25.8 | 37.9 | 79.2  | 451.2 |
| 52.5° | 3.4  | 5.2  | 6.9  | 12.1 | 15.5 | 20.7 | 27.6 | 36.2 | 84.4  | 602.8 |
| 55°   | 3.4  | 3.4  | 5.2  | 10.3 | 13.8 | 22.4 | 29.3 | 36.2 | 98.2  | 640.7 |
| 57.5° | 3.4  | 3.4  | 5.2  | 8.6  | 12.1 | 24.1 | 31.0 | 36.2 | 113.7 | 621.7 |
| 59°   | 3.4  | 3.4  | 3.4  | 8.6  | 10.3 | 24.1 | 31.0 | 37.9 | 115.4 | 589.0 |
| 60°   | 3.4  | 3.4  | 3.4  | 6.9  | 10.3 | 24.1 | 32.7 | 39.6 | 117.1 | 551.1 |
| 62.5° | 1.7  | 1.7  | 1.7  | 6.9  | 8.6  | 24.1 | 36.2 | 48.2 | 120.6 | 425.4 |
| 65°   | 3.4  | 3.4  | 1.7  | 5.2  | 8.6  | 20.7 | 41.3 | 51.7 | 122.3 | 330.7 |
| 67.5° | 3.4  | 3.4  | 3.4  | 6.9  | 8.6  | 20.7 | 43.1 | 53.4 | 122.3 | 261.8 |
| 70°   | 3.4  | 3.4  | 3.4  | 6.9  | 10.3 | 20.7 | 43.1 | 55.1 | 120.6 | 213.6 |
| 72.5° | 3.4  | 3.4  | 3.4  | 6.9  | 10.3 | 18.9 | 39.6 | 56.8 | 115.4 | 180.8 |
| 75°   | 3.4  | 3.4  | 3.4  | 5.2  | 8.6  | 17.2 | 37.9 | 62.0 | 105.1 | 153.3 |
| 77.5° | 3.4  | 3.4  | 3.4  | 3.4  | 6.9  | 13.8 | 34.4 | 68.9 | 93.0  | 124.0 |
| 80°   | 5.2  | 3.4  | 3.4  | 3.4  | 5.2  | 12.1 | 32.7 | 67.2 | 77.5  | 80.9  |
| 82.5° | 5.2  | 3.4  | 3.4  | 1.7  | 3.4  | 8.6  | 25.8 | 51.7 | 39.6  | 36.2  |
| 85°   | 3.4  | 3.4  | 3.4  | 1.7  | 1.7  | 5.2  | 12.1 | 15.5 | 12.1  | 8.6   |
| 87.5° | 3.4  | 3.4  | 3.4  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7   | 1.7   |
| 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: SP1-2407-184-6

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-750-U-5WQ

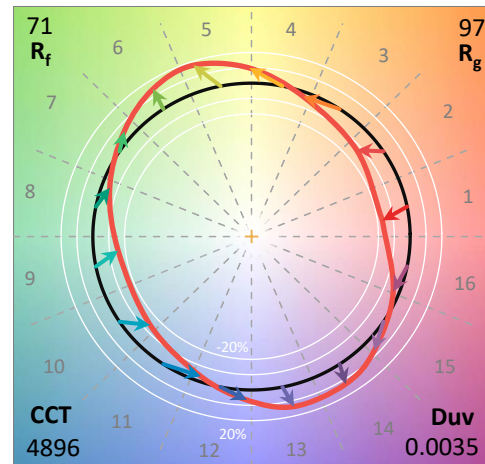
Data in this report applies to families of products including GSS-SB1A-750-U-5WQ

### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2407-184-6  
 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-750-U-5WQ**  
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI  
 5000K CCT 26 LEDS

### Spectral Parameters

|                           |          |           |      |      |       |
|---------------------------|----------|-----------|------|------|-------|
| CCT (K):                  | 4896     | CRI (Ra): | 70.2 |      |       |
| CIE u':                   | 0.2101   | R1:       | 68.1 | R9:  | -35.1 |
| CIE v':                   | 0.4901   | R2:       | 73.9 | R10: | 39.3  |
| Duv:                      | 0.0035   | R3:       | 79.4 | R11: | 71.1  |
| CIE x:                    | 0.3489   | R4:       | 72.1 | R12: | 43.8  |
| CIE y:                    | 0.3618   | R5:       | 69.2 | R13: | 68.1  |
| CIE z:                    | 0.2893   | R6:       | 65.7 | R14: | 88.4  |
| Peak Wavelength (nm):     | 443      | R7:       | 78.1 | R15: | 59.7  |
| Dominant Wavelength (nm): | 570      | R8:       | 55.3 |      |       |
| Purity:                   | 13.25435 |           |      |      |       |
| Rf:                       | 70.7     |           |      |      |       |
| Rg:                       | 96.8     |           |      |      |       |



### Test Conditions

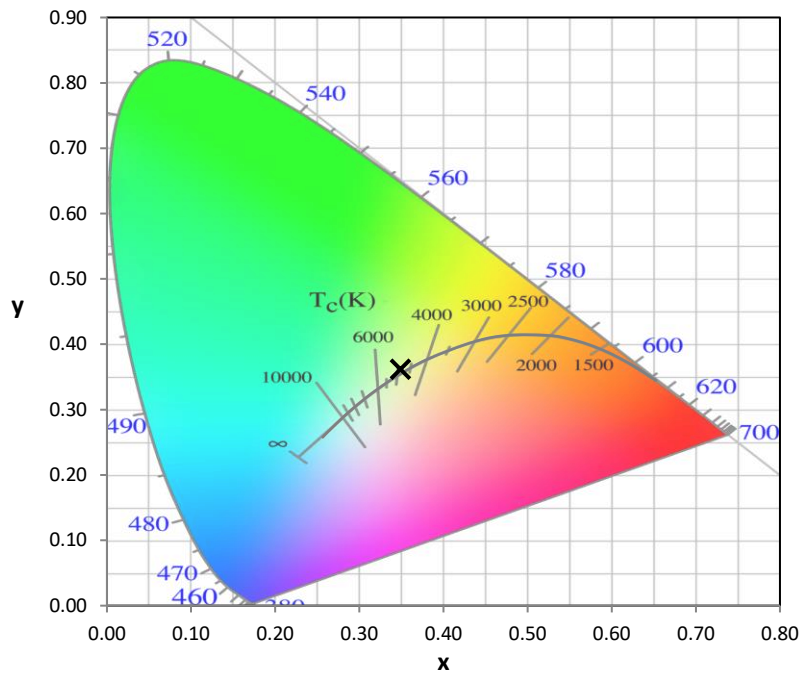
Stabilization Time: 21M  
 Operation Time: 1H 21M  
 Sphere Temperature (°C): 25.2

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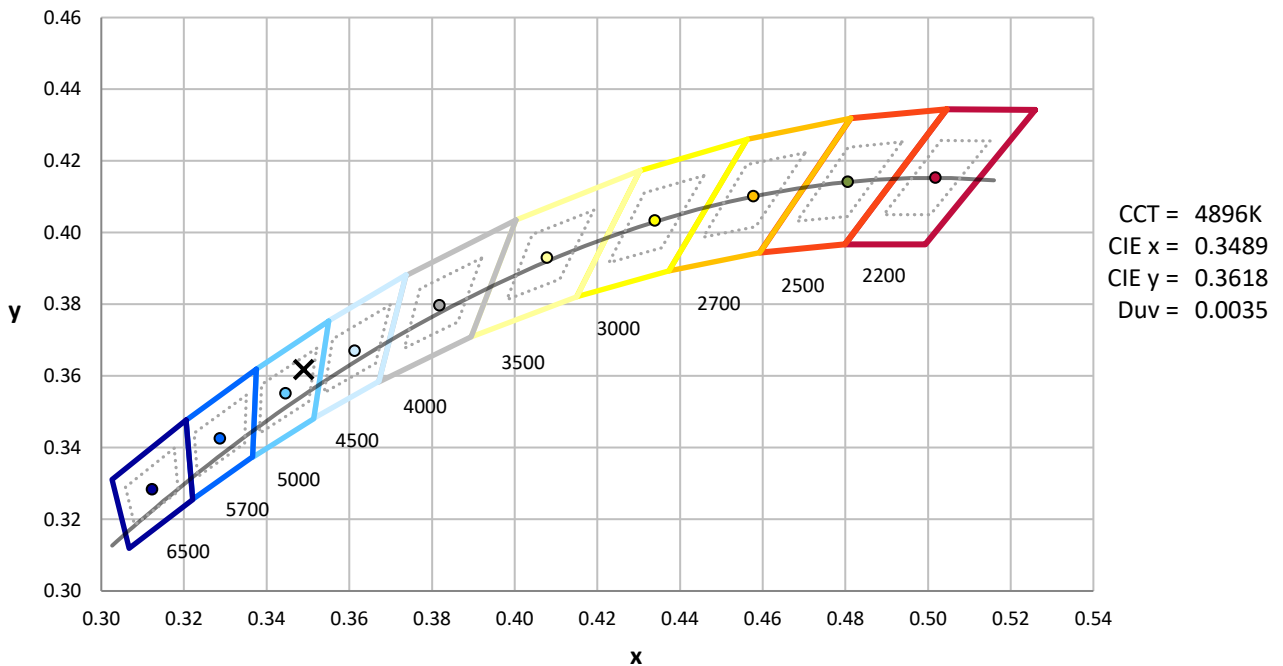
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date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

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**CIE 1931 Chromaticity Diagram**



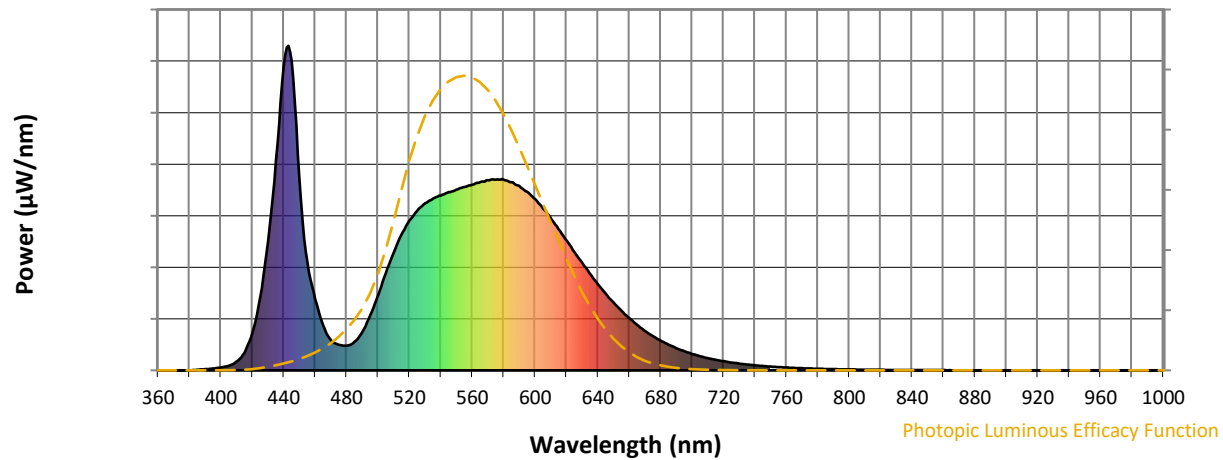
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-6

### Photopic Flux vs. Wavelength

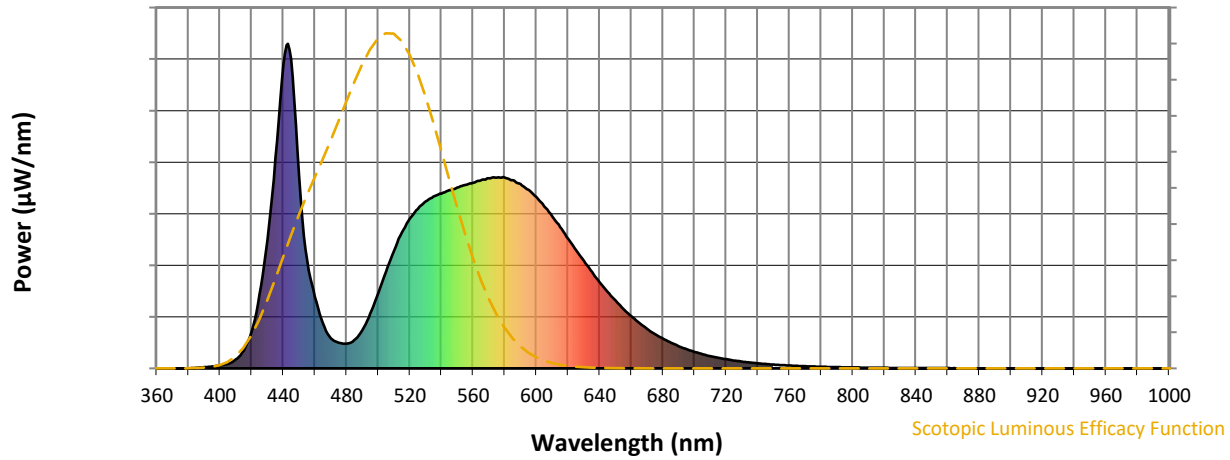


### Photopic Lumens: NR

| λ (nm) | Power W <sup>λ</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>λ</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>λ</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>λ</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>λ</sup> /nm | Lumens (φ/nm) |
|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|
| 360    | 0                        | NR            | 490    | 118                      | NR            | 620    | 401                      | NR            | 750    | 12                       | NR            | 880    | 0                        | NR            |
| 365    | 0                        | NR            | 495    | 168                      | NR            | 625    | 365                      | NR            | 755    | 10                       | NR            | 885    | 0                        | NR            |
| 370    | 0                        | NR            | 500    | 230                      | NR            | 630    | 331                      | NR            | 760    | 9                        | NR            | 890    | 0                        | NR            |
| 375    | 0                        | NR            | 505    | 299                      | NR            | 635    | 298                      | NR            | 765    | 8                        | NR            | 895    | 0                        | NR            |
| 380    | 0                        | NR            | 510    | 362                      | NR            | 640    | 266                      | NR            | 770    | 6                        | NR            | 900    | 0                        | NR            |
| 385    | 2                        | NR            | 515    | 418                      | NR            | 645    | 236                      | NR            | 775    | 6                        | NR            | 905    | 0                        | NR            |
| 390    | 4                        | NR            | 520    | 461                      | NR            | 650    | 209                      | NR            | 780    | 5                        | NR            | 910    | 0                        | NR            |
| 395    | 6                        | NR            | 525    | 491                      | NR            | 655    | 184                      | NR            | 785    | 4                        | NR            | 915    | 0                        | NR            |
| 400    | 9                        | NR            | 530    | 514                      | NR            | 660    | 160                      | NR            | 790    | 4                        | NR            | 920    | 0                        | NR            |
| 405    | 14                       | NR            | 535    | 530                      | NR            | 665    | 140                      | NR            | 795    | 3                        | NR            | 925    | 0                        | NR            |
| 410    | 27                       | NR            | 540    | 539                      | NR            | 670    | 122                      | NR            | 800    | 3                        | NR            | 930    | 0                        | NR            |
| 415    | 55                       | NR            | 545    | 549                      | NR            | 675    | 106                      | NR            | 805    | 2                        | NR            | 935    | 0                        | NR            |
| 420    | 115                      | NR            | 550    | 557                      | NR            | 680    | 92                       | NR            | 810    | 2                        | NR            | 940    | 0                        | NR            |
| 425    | 226                      | NR            | 555    | 565                      | NR            | 685    | 79                       | NR            | 815    | 2                        | NR            | 945    | 0                        | NR            |
| 430    | 395                      | NR            | 560    | 572                      | NR            | 690    | 68                       | NR            | 820    | 2                        | NR            | 950    | 0                        | NR            |
| 435    | 648                      | NR            | 565    | 580                      | NR            | 695    | 59                       | NR            | 825    | 1                        | NR            | 955    | 0                        | NR            |
| 440    | 937                      | NR            | 570    | 586                      | NR            | 700    | 51                       | NR            | 830    | 1                        | NR            | 960    | 0                        | NR            |
| 445    | 953                      | NR            | 575    | 588                      | NR            | 705    | 44                       | NR            | 835    | 1                        | NR            | 965    | 0                        | NR            |
| 450    | 591                      | NR            | 580    | 588                      | NR            | 710    | 38                       | NR            | 840    | 1                        | NR            | 970    | 0                        | NR            |
| 455    | 334                      | NR            | 585    | 580                      | NR            | 715    | 32                       | NR            | 845    | 1                        | NR            | 975    | 0                        | NR            |
| 460    | 221                      | NR            | 590    | 568                      | NR            | 720    | 28                       | NR            | 850    | 1                        | NR            | 980    | 0                        | NR            |
| 465    | 140                      | NR            | 595    | 550                      | NR            | 725    | 24                       | NR            | 855    | 1                        | NR            | 985    | 0                        | NR            |
| 470    | 93                       | NR            | 600    | 527                      | NR            | 730    | 21                       | NR            | 860    | 1                        | NR            | 990    | 0                        | NR            |
| 475    | 79                       | NR            | 605    | 499                      | NR            | 735    | 18                       | NR            | 865    | 0                        | NR            | 995    | 0                        | NR            |
| 480    | 76                       | NR            | 610    | 469                      | NR            | 740    | 15                       | NR            | 870    | 0                        | NR            | 1000   | 0                        | NR            |
| 485    | 87                       | NR            | 615    | 435                      | NR            | 745    | 13                       | NR            | 875    | 0                        | NR            |        |                          |               |

REPORT NUMBER: SP1-2407-184-6

### Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

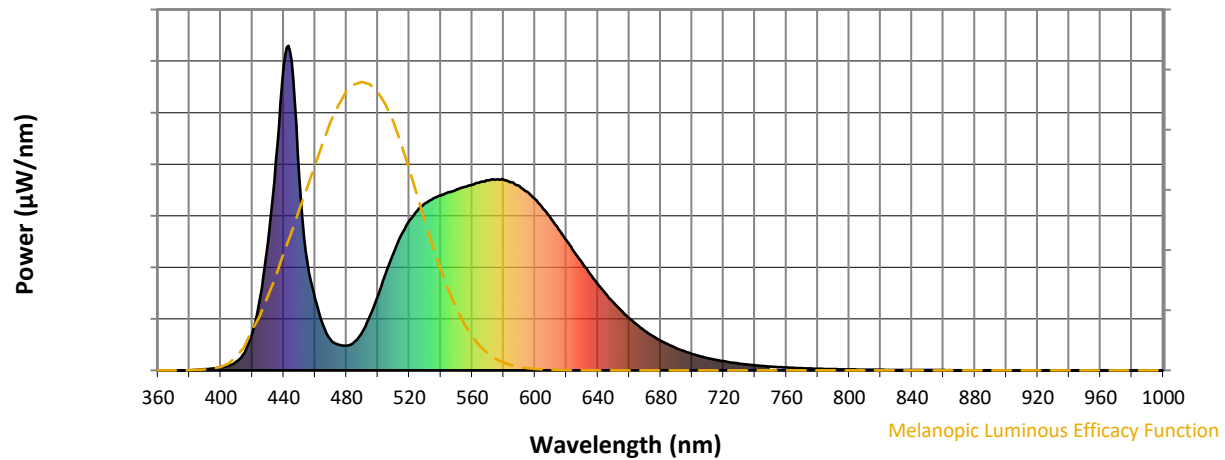
S/P: 1.7

| 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    | 118                      | NR            | 620    | 401                      | NR            | 750    | 12                       | NR            | 880    | 0                        | NR            |
| 365    | 0                        | NR            | 495    | 168                      | NR            | 625    | 365                      | NR            | 755    | 10                       | NR            | 885    | 0                        | NR            |
| 370    | 0                        | NR            | 500    | 230                      | NR            | 630    | 331                      | NR            | 760    | 9                        | NR            | 890    | 0                        | NR            |
| 375    | 0                        | NR            | 505    | 299                      | NR            | 635    | 298                      | NR            | 765    | 8                        | NR            | 895    | 0                        | NR            |
| 380    | 0                        | NR            | 510    | 362                      | NR            | 640    | 266                      | NR            | 770    | 6                        | NR            | 900    | 0                        | NR            |
| 385    | 2                        | NR            | 515    | 418                      | NR            | 645    | 236                      | NR            | 775    | 6                        | NR            | 905    | 0                        | NR            |
| 390    | 4                        | NR            | 520    | 461                      | NR            | 650    | 209                      | NR            | 780    | 5                        | NR            | 910    | 0                        | NR            |
| 395    | 6                        | NR            | 525    | 491                      | NR            | 655    | 184                      | NR            | 785    | 4                        | NR            | 915    | 0                        | NR            |
| 400    | 9                        | NR            | 530    | 514                      | NR            | 660    | 160                      | NR            | 790    | 4                        | NR            | 920    | 0                        | NR            |
| 405    | 14                       | NR            | 535    | 530                      | NR            | 665    | 140                      | NR            | 795    | 3                        | NR            | 925    | 0                        | NR            |
| 410    | 27                       | NR            | 540    | 539                      | NR            | 670    | 122                      | NR            | 800    | 3                        | NR            | 930    | 0                        | NR            |
| 415    | 55                       | NR            | 545    | 549                      | NR            | 675    | 106                      | NR            | 805    | 2                        | NR            | 935    | 0                        | NR            |
| 420    | 115                      | NR            | 550    | 557                      | NR            | 680    | 92                       | NR            | 810    | 2                        | NR            | 940    | 0                        | NR            |
| 425    | 226                      | NR            | 555    | 565                      | NR            | 685    | 79                       | NR            | 815    | 2                        | NR            | 945    | 0                        | NR            |
| 430    | 395                      | NR            | 560    | 572                      | NR            | 690    | 68                       | NR            | 820    | 2                        | NR            | 950    | 0                        | NR            |
| 435    | 648                      | NR            | 565    | 580                      | NR            | 695    | 59                       | NR            | 825    | 1                        | NR            | 955    | 0                        | NR            |
| 440    | 937                      | NR            | 570    | 586                      | NR            | 700    | 51                       | NR            | 830    | 1                        | NR            | 960    | 0                        | NR            |
| 445    | 953                      | NR            | 575    | 588                      | NR            | 705    | 44                       | NR            | 835    | 1                        | NR            | 965    | 0                        | NR            |
| 450    | 591                      | NR            | 580    | 588                      | NR            | 710    | 38                       | NR            | 840    | 1                        | NR            | 970    | 0                        | NR            |
| 455    | 334                      | NR            | 585    | 580                      | NR            | 715    | 32                       | NR            | 845    | 1                        | NR            | 975    | 0                        | NR            |
| 460    | 221                      | NR            | 590    | 568                      | NR            | 720    | 28                       | NR            | 850    | 1                        | NR            | 980    | 0                        | NR            |
| 465    | 140                      | NR            | 595    | 550                      | NR            | 725    | 24                       | NR            | 855    | 1                        | NR            | 985    | 0                        | NR            |
| 470    | 93                       | NR            | 600    | 527                      | NR            | 730    | 21                       | NR            | 860    | 1                        | NR            | 990    | 0                        | NR            |
| 475    | 79                       | NR            | 605    | 499                      | NR            | 735    | 18                       | NR            | 865    | 0                        | NR            | 995    | 0                        | NR            |
| 480    | 76                       | NR            | 610    | 469                      | NR            | 740    | 15                       | NR            | 870    | 0                        | NR            | 1000   | 0                        | NR            |
| 485    | 87                       | NR            | 615    | 435                      | NR            | 745    | 13                       | NR            | 875    | 0                        | NR            |        |                          |               |



REPORT NUMBER: SP1-2407-184-6

### Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.37

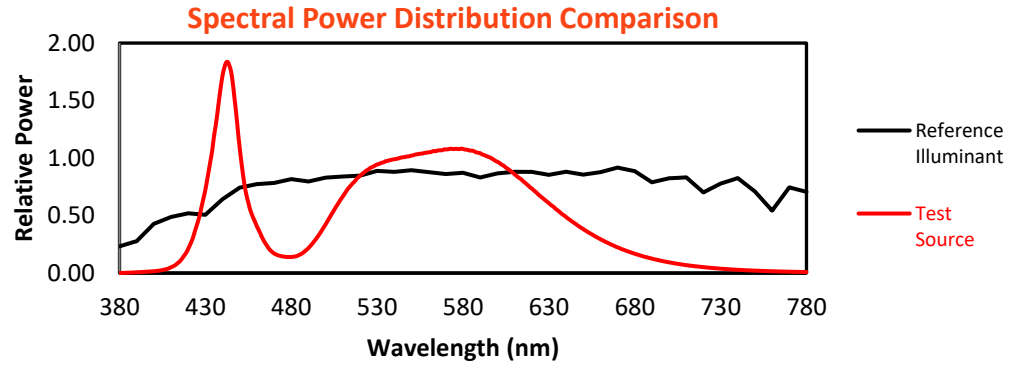
| $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | 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               | 118                                    | NR                             | 620               | 401                                    | NR                             | 750               | 12                                     | NR                             | 880               | 0                                      | NR                             |
| 365               | 0                                      | NR                             | 495               | 168                                    | NR                             | 625               | 365                                    | NR                             | 755               | 10                                     | NR                             | 885               | 0                                      | NR                             |
| 370               | 0                                      | NR                             | 500               | 230                                    | NR                             | 630               | 331                                    | NR                             | 760               | 9                                      | NR                             | 890               | 0                                      | NR                             |
| 375               | 0                                      | NR                             | 505               | 299                                    | NR                             | 635               | 298                                    | NR                             | 765               | 8                                      | NR                             | 895               | 0                                      | NR                             |
| 380               | 0                                      | NR                             | 510               | 362                                    | NR                             | 640               | 266                                    | NR                             | 770               | 6                                      | NR                             | 900               | 0                                      | NR                             |
| 385               | 2                                      | NR                             | 515               | 418                                    | NR                             | 645               | 236                                    | NR                             | 775               | 6                                      | NR                             | 905               | 0                                      | NR                             |
| 390               | 4                                      | NR                             | 520               | 461                                    | NR                             | 650               | 209                                    | NR                             | 780               | 5                                      | NR                             | 910               | 0                                      | NR                             |
| 395               | 6                                      | NR                             | 525               | 491                                    | NR                             | 655               | 184                                    | NR                             | 785               | 4                                      | NR                             | 915               | 0                                      | NR                             |
| 400               | 9                                      | NR                             | 530               | 514                                    | NR                             | 660               | 160                                    | NR                             | 790               | 4                                      | NR                             | 920               | 0                                      | NR                             |
| 405               | 14                                     | NR                             | 535               | 530                                    | NR                             | 665               | 140                                    | NR                             | 795               | 3                                      | NR                             | 925               | 0                                      | NR                             |
| 410               | 27                                     | NR                             | 540               | 539                                    | NR                             | 670               | 122                                    | NR                             | 800               | 3                                      | NR                             | 930               | 0                                      | NR                             |
| 415               | 55                                     | NR                             | 545               | 549                                    | NR                             | 675               | 106                                    | NR                             | 805               | 2                                      | NR                             | 935               | 0                                      | NR                             |
| 420               | 115                                    | NR                             | 550               | 557                                    | NR                             | 680               | 92                                     | NR                             | 810               | 2                                      | NR                             | 940               | 0                                      | NR                             |
| 425               | 226                                    | NR                             | 555               | 565                                    | NR                             | 685               | 79                                     | NR                             | 815               | 2                                      | NR                             | 945               | 0                                      | NR                             |
| 430               | 395                                    | NR                             | 560               | 572                                    | NR                             | 690               | 68                                     | NR                             | 820               | 2                                      | NR                             | 950               | 0                                      | NR                             |
| 435               | 648                                    | NR                             | 565               | 580                                    | NR                             | 695               | 59                                     | NR                             | 825               | 1                                      | NR                             | 955               | 0                                      | NR                             |
| 440               | 937                                    | NR                             | 570               | 586                                    | NR                             | 700               | 51                                     | NR                             | 830               | 1                                      | NR                             | 960               | 0                                      | NR                             |
| 445               | 953                                    | NR                             | 575               | 588                                    | NR                             | 705               | 44                                     | NR                             | 835               | 1                                      | NR                             | 965               | 0                                      | NR                             |
| 450               | 591                                    | NR                             | 580               | 588                                    | NR                             | 710               | 38                                     | NR                             | 840               | 1                                      | NR                             | 970               | 0                                      | NR                             |
| 455               | 334                                    | NR                             | 585               | 580                                    | NR                             | 715               | 32                                     | NR                             | 845               | 1                                      | NR                             | 975               | 0                                      | NR                             |
| 460               | 221                                    | NR                             | 590               | 568                                    | NR                             | 720               | 28                                     | NR                             | 850               | 1                                      | NR                             | 980               | 0                                      | NR                             |
| 465               | 140                                    | NR                             | 595               | 550                                    | NR                             | 725               | 24                                     | NR                             | 855               | 1                                      | NR                             | 985               | 0                                      | NR                             |
| 470               | 93                                     | NR                             | 600               | 527                                    | NR                             | 730               | 21                                     | NR                             | 860               | 1                                      | NR                             | 990               | 0                                      | NR                             |
| 475               | 79                                     | NR                             | 605               | 499                                    | NR                             | 735               | 18                                     | NR                             | 865               | 0                                      | NR                             | 995               | 0                                      | NR                             |
| 480               | 76                                     | NR                             | 610               | 469                                    | NR                             | 740               | 15                                     | NR                             | 870               | 0                                      | NR                             | 1000              | 0                                      | NR                             |
| 485               | 87                                     | NR                             | 615               | 435                                    | NR                             | 745               | 13                                     | NR                             | 875               | 0                                      | NR                             |                   |                                        |                                |

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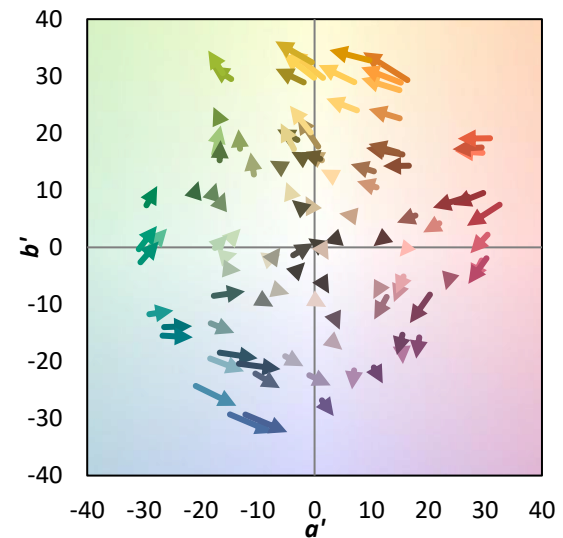
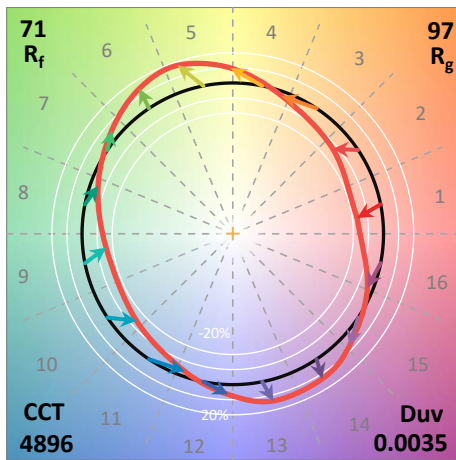
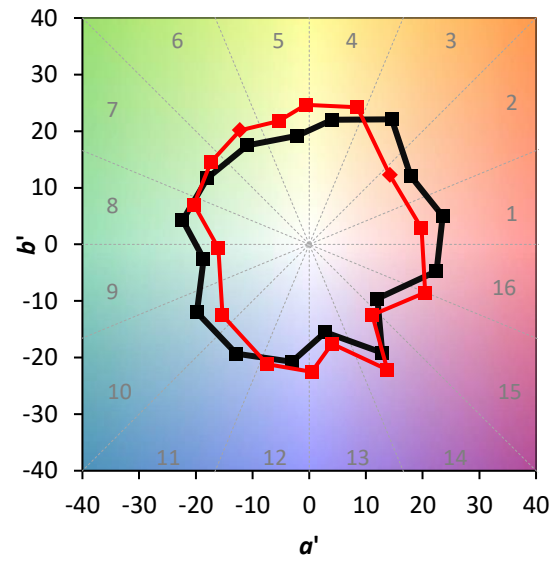
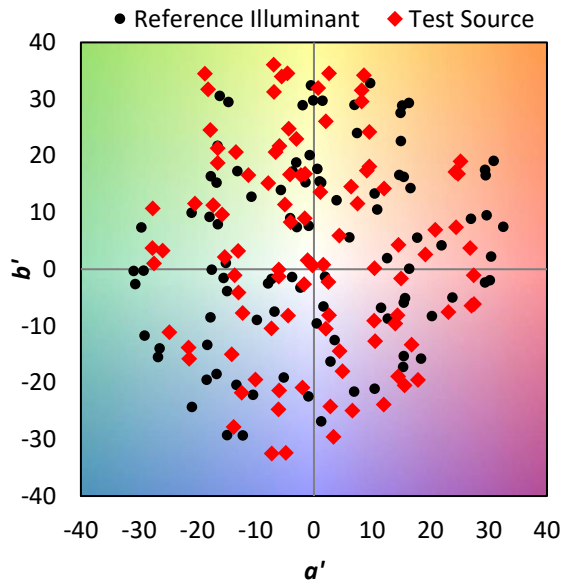
TM-30-18

### Summary

$R_f = 70.7$   
 $R_g = 96.8$   
 CIE  $R_a = 70.2$   
 $R_g = -35.1$

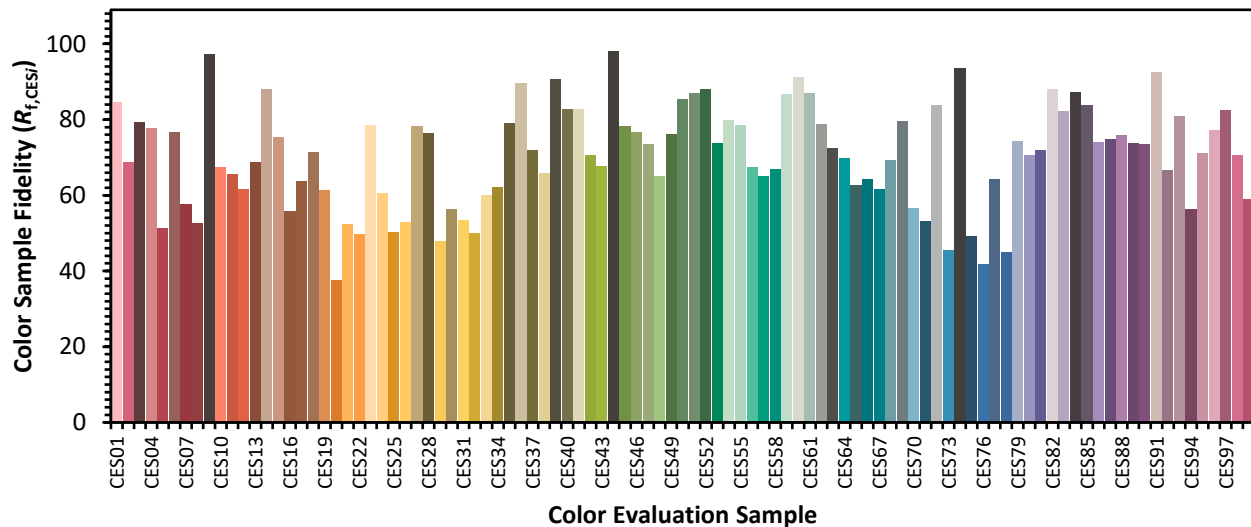


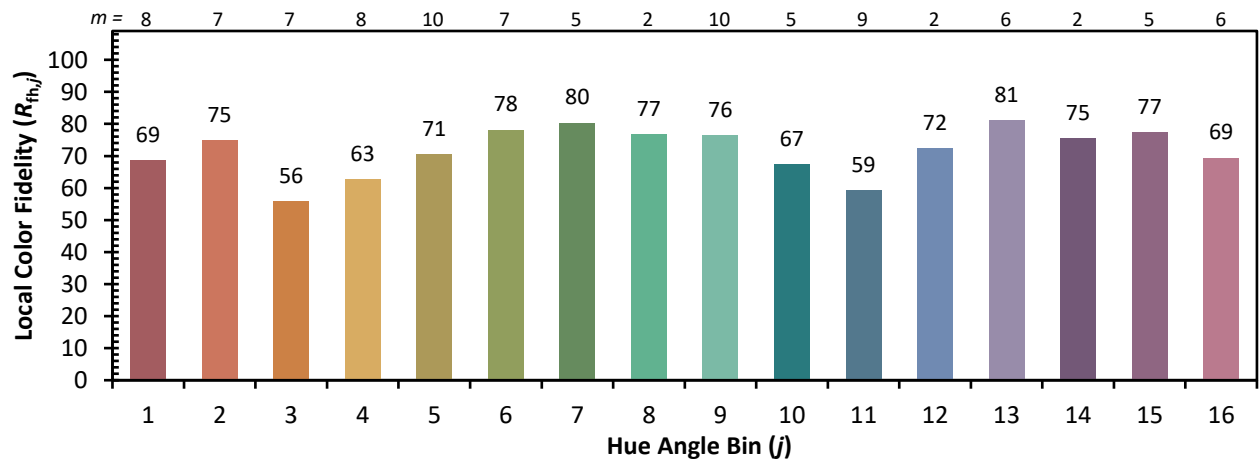
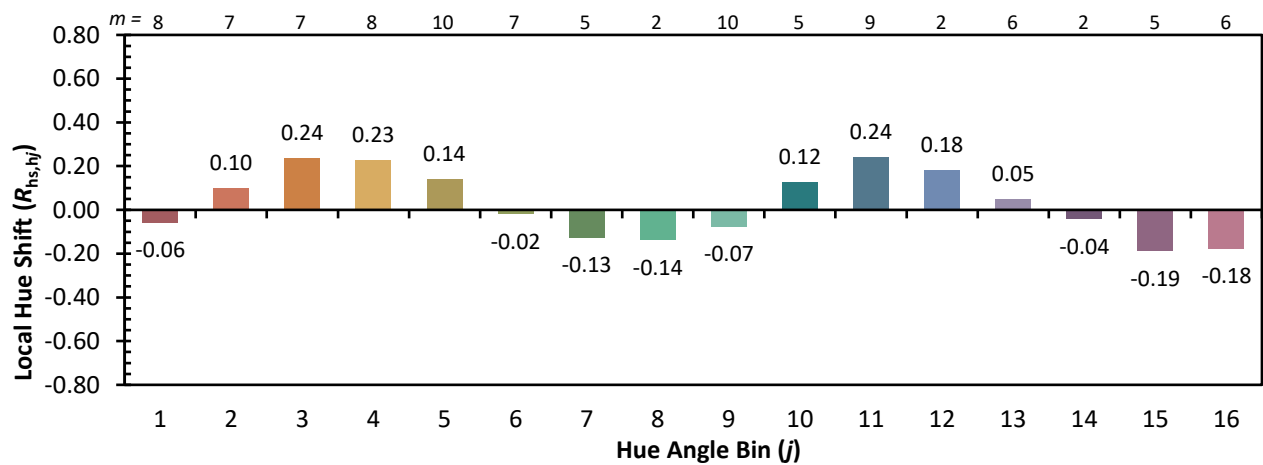
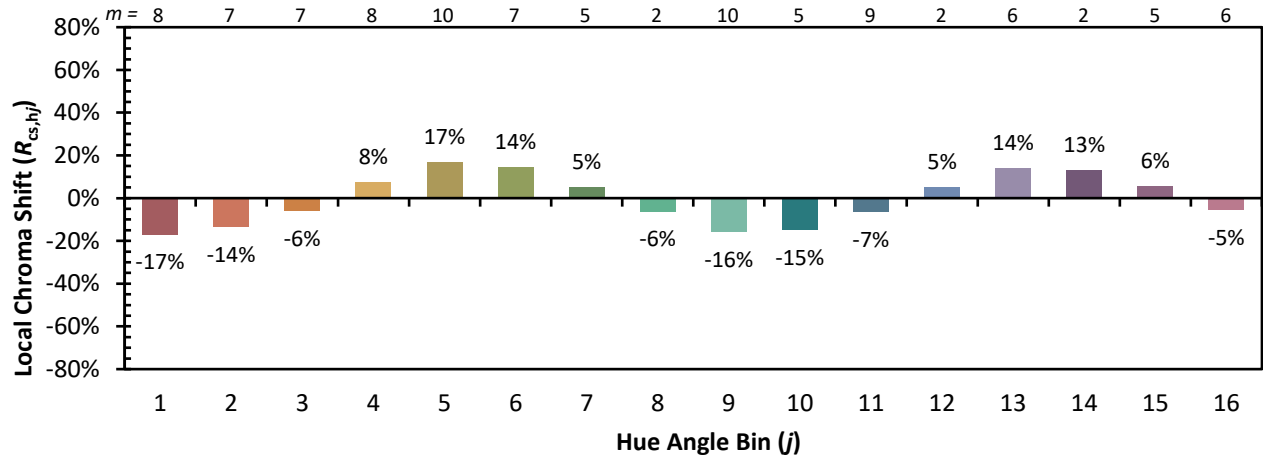
### Color Vector Graphics

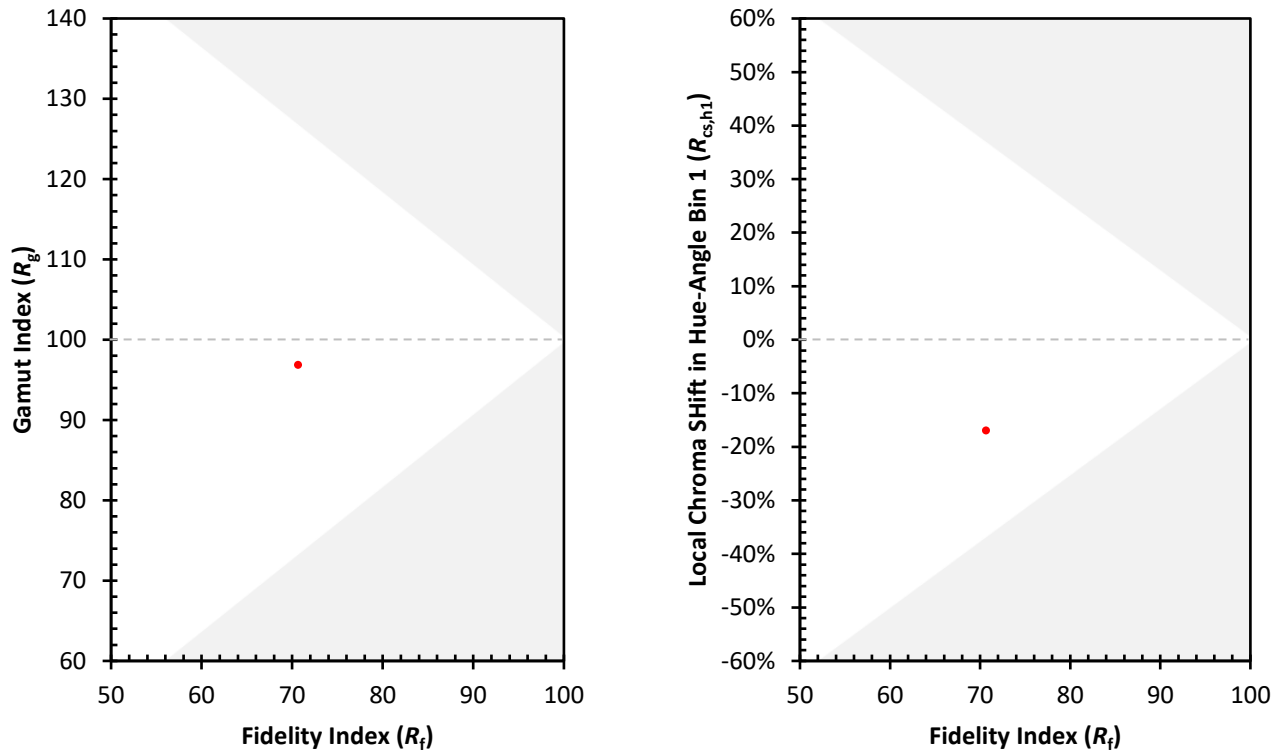


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 53 | CES51 = 87 | CES76 = 42 |
| CES02 = 59 | CES27 = 78 | CES52 = 88 | CES77 = 64 |
| CES03 = 30 | CES28 = 76 | CES53 = 74 | CES78 = 45 |
| CES04 = 69 | CES29 = 48 | CES54 = 80 | CES79 = 74 |
| CES05 = 46 | CES30 = 56 | CES55 = 79 | CES80 = 71 |
| CES06 = 50 | CES31 = 54 | CES56 = 68 | CES81 = 72 |
| CES07 = 39 | CES32 = 50 | CES57 = 65 | CES82 = 88 |
| CES08 = 38 | CES33 = 60 | CES58 = 67 | CES83 = 82 |
| CES09 = 29 | CES34 = 62 | CES59 = 87 | CES84 = 87 |
| CES10 = 72 | CES35 = 79 | CES60 = 91 | CES85 = 84 |
| CES11 = 56 | CES36 = 90 | CES61 = 87 | CES86 = 74 |
| CES12 = 61 | CES37 = 72 | CES62 = 79 | CES87 = 75 |
| CES13 = 41 | CES38 = 66 | CES63 = 72 | CES88 = 76 |
| CES14 = 74 | CES39 = 91 | CES64 = 70 | CES89 = 74 |
| CES15 = 70 | CES40 = 83 | CES65 = 63 | CES90 = 73 |
| CES16 = 46 | CES41 = 83 | CES66 = 64 | CES91 = 92 |
| CES17 = 49 | CES42 = 70 | CES67 = 62 | CES92 = 67 |
| CES18 = 55 | CES43 = 68 | CES68 = 69 | CES93 = 81 |
| CES19 = 71 | CES44 = 98 | CES69 = 80 | CES94 = 56 |
| CES20 = 64 | CES45 = 78 | CES70 = 56 | CES95 = 71 |
| CES21 = 85 | CES46 = 77 | CES71 = 53 | CES96 = 77 |
| CES22 = 77 | CES47 = 73 | CES72 = 84 | CES97 = 82 |
| CES23 = 91 | CES48 = 65 | CES73 = 46 | CES98 = 71 |
| CES24 = 90 | CES49 = 76 | CES74 = 94 | CES99 = 59 |
| CES25 = 71 | CES50 = 85 | CES75 = 49 |            |



**Color Rendition by Hue-Angle Bin**


**Measure Comparisons**


(END OF REPORT)