

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: P1066726

Luminaire Tested: **NVN-SA3B-727-U-LBC**

Issue Date: 08/07/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1066726  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 08/07/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SA3B-727-U-LBC  
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 3xLight Square PACKAGE  
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (42) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9680.6 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G2

Input Watts (W): 106.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.97  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



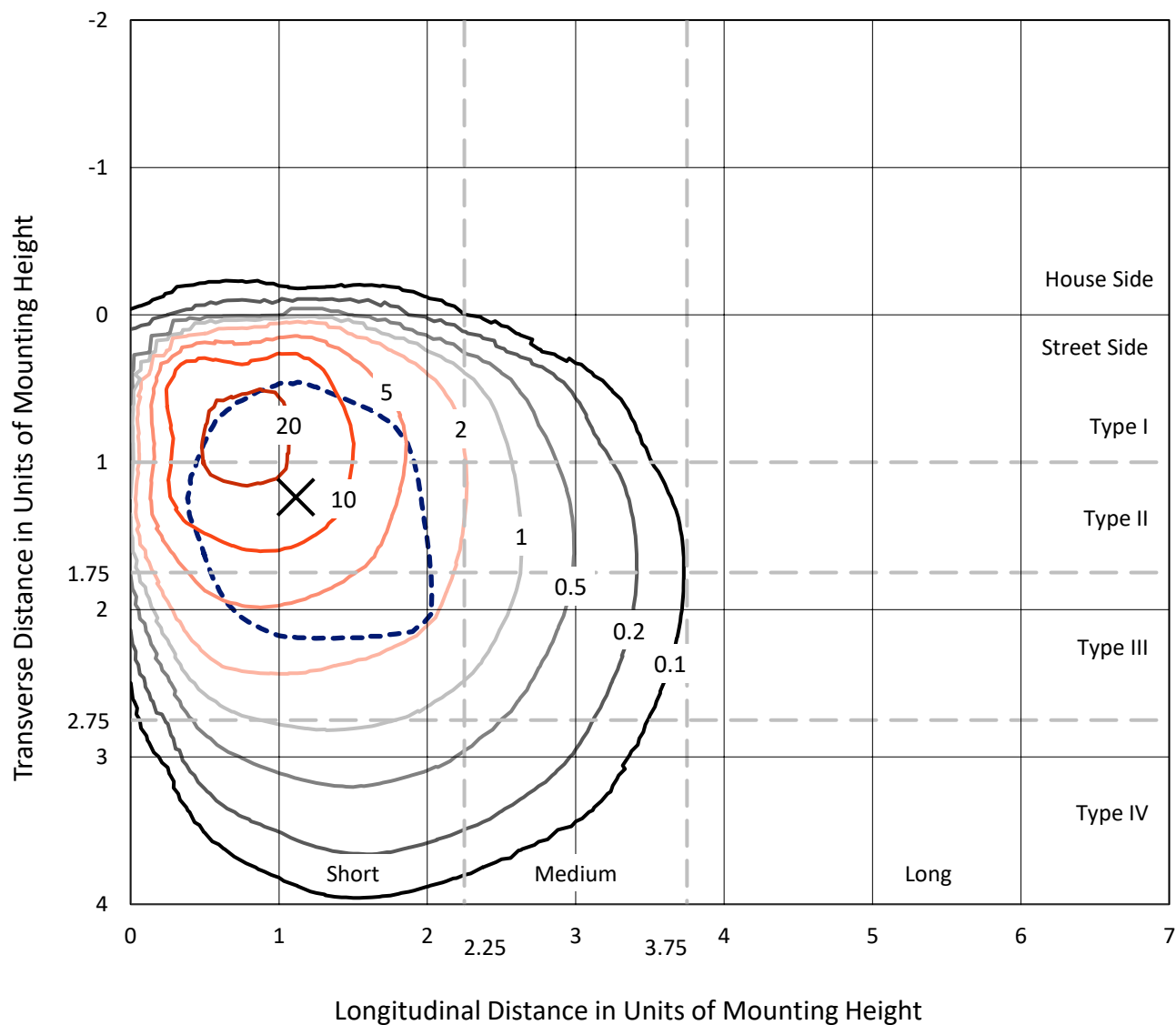
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

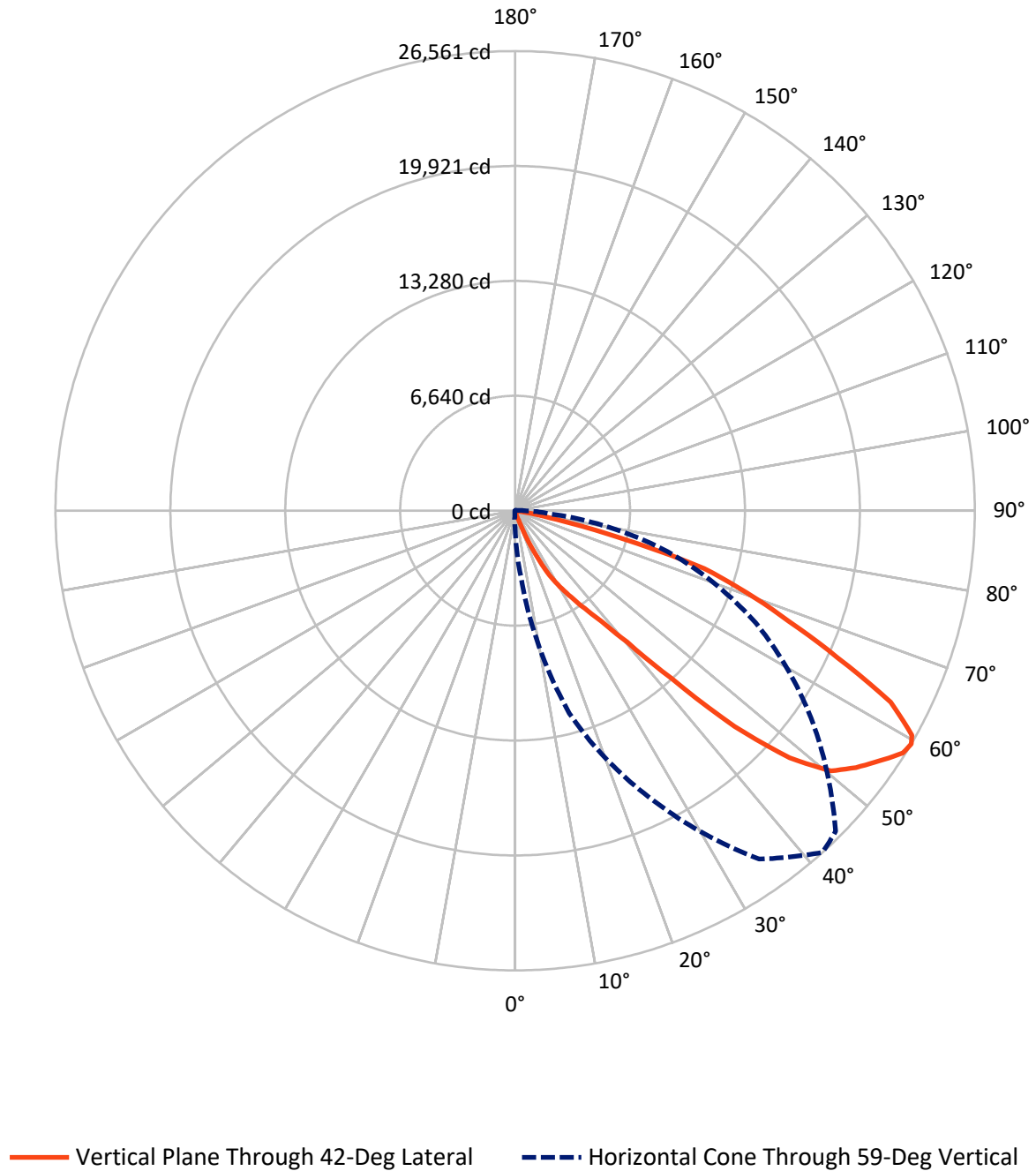


Based on 15 foot mounting height. Maximum calculated value = 28.8 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 46.6     | 0.0    | 46.6   |
|                    | % Fixture | 0.5      | 0.0    | 0.5    |
| <b>Street Side</b> | Lumens    | 9633.9   | 0.0    | 9633.9 |
|                    | % Fixture | 99.5     | 0.0    | 99.5   |
| <b>Total</b>       | Lumens    | 9680.6   | 0.0    | 9680.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.8    | 0.0       |
| 10°-20°   | 14.1   | 0.1       |
| 20°-30°   | 180.6  | 1.9       |
| 30°-40°   | 608.8  | 6.3       |
| 40°-50°   | 1838.8 | 19.0      |
| 50°-60°   | 3245.9 | 33.5      |
| 60°-70°   | 2858.1 | 29.5      |
| 70°-80°   | 909.7  | 9.4       |
| 80°-90°   | 21.8   | 0.2       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 9680.6 | 100.0     |
| 0°-180°   | 9680.6 | 100.0     |



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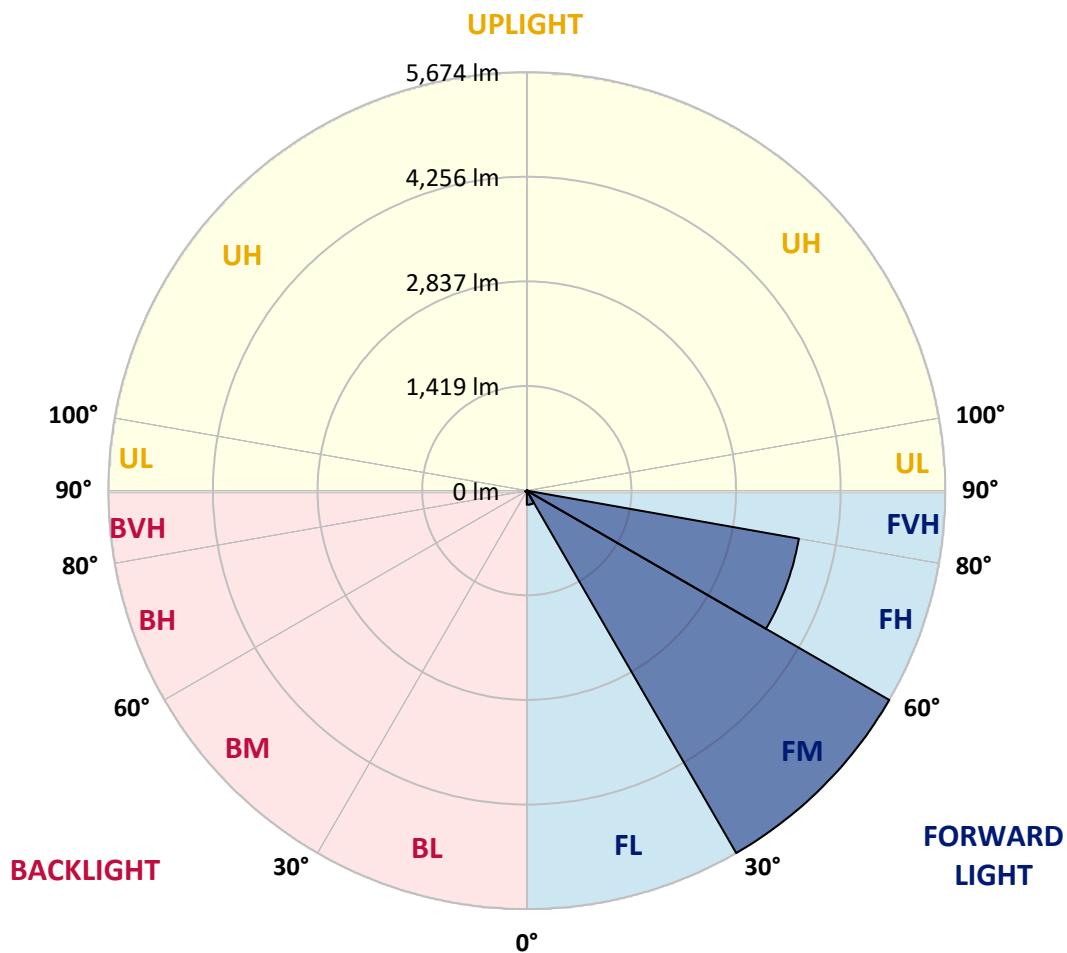
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 192.3  | 2.0       |                         |      |         |
| FM   | (30°-60°)   | 5674.4 | 58.6      |                         |      |         |
| FH   | (60°-80°)   | 3746.5 | 38.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 20.7   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 5.2    | 0.1       | B0/110                  |      |         |
| BM   | (30°-60°)   | 19.1   | 0.2       | B0/220                  |      |         |
| BH   | (60°-80°)   | 21.3   | 0.2       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 1.1    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°     | 25°     | 35°     | 42°     | 45°     | 55°     | 65°     | 75°     | 85°    |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 27.3   | 27.3   | 27.3    | 27.3    | 27.3    | 27.3    | 27.3    | 27.3    | 27.3    | 27.3    | 27.3   |
| 2.5°  | 42.5   | 42.5   | 39.5    | 36.4    | 33.4    | 30.4    | 30.4    | 30.4    | 27.3    | 27.3    | 24.3   |
| 5°    | 48.6   | 48.6   | 45.5    | 42.5    | 42.5    | 39.5    | 39.5    | 36.4    | 33.4    | 33.4    | 30.4   |
| 7.5°  | 51.6   | 51.6   | 51.6    | 51.6    | 48.6    | 48.6    | 48.6    | 45.5    | 42.5    | 39.5    | 36.4   |
| 10°   | 54.6   | 57.7   | 60.7    | 60.7    | 60.7    | 60.7    | 60.7    | 57.7    | 51.6    | 48.6    | 42.5   |
| 12.5° | 60.7   | 63.7   | 69.8    | 75.9    | 75.9    | 78.9    | 75.9    | 72.8    | 66.8    | 57.7    | 48.6   |
| 15°   | 66.8   | 72.8   | 82.0    | 94.1    | 106.2   | 109.3   | 109.3   | 100.2   | 88.0    | 69.8    | 57.7   |
| 17.5° | 75.9   | 85.0   | 109.3   | 148.7   | 191.2   | 224.6   | 224.6   | 200.3   | 139.6   | 91.1    | 66.8   |
| 20°   | 82.0   | 100.2  | 176.0   | 358.2   | 546.3   | 686.0   | 658.6   | 582.8   | 312.6   | 142.7   | 72.8   |
| 22.5° | 91.1   | 127.5  | 373.3   | 940.9   | 1456.9  | 1711.8  | 1651.1  | 1253.5  | 701.1   | 255.0   | 88.0   |
| 25°   | 103.2  | 185.1  | 740.6   | 1763.4  | 2707.4  | 2983.6  | 2944.1  | 2340.1  | 1277.8  | 428.0   | 112.3  |
| 27.5° | 127.5  | 273.2  | 1186.8  | 2674.0  | 3994.3  | 4231.0  | 4215.9  | 3426.7  | 2042.7  | 689.0   | 145.7  |
| 30°   | 160.9  | 397.6  | 1760.4  | 3633.1  | 4847.2  | 5087.0  | 5011.1  | 4221.9  | 2755.9  | 1053.2  | 188.2  |
| 32.5° | 200.3  | 555.4  | 2279.4  | 4340.3  | 5633.3  | 5949.0  | 5857.9  | 4914.0  | 3329.6  | 1362.8  | 279.2  |
| 35°   | 261.0  | 710.2  | 2792.4  | 4965.6  | 6540.8  | 6941.5  | 6789.7  | 5627.2  | 3824.3  | 1711.8  | 336.9  |
| 37.5° | 291.4  | 801.3  | 3262.8  | 5645.4  | 7560.6  | 8107.0  | 7991.6  | 6528.7  | 4328.2  | 2158.0  | 412.8  |
| 40°   | 294.4  | 910.6  | 3751.5  | 6531.7  | 9002.4  | 9976.7  | 9770.3  | 8076.6  | 5266.0  | 2731.7  | 531.2  |
| 42.5° | 303.5  | 1074.5 | 4385.8  | 8043.2  | 11834.2 | 13233.4 | 12999.7 | 10923.6 | 7393.7  | 3882.0  | 752.7  |
| 45°   | 346.0  | 1384.0 | 5678.8  | 10869.0 | 15722.3 | 17774.0 | 17503.9 | 14890.6 | 10365.2 | 6046.1  | 1283.9 |
| 47.5° | 494.7  | 2082.1 | 7946.1  | 13919.4 | 19698.4 | 21334.3 | 21267.5 | 18016.9 | 13057.4 | 8264.8  | 2176.2 |
| 50°   | 795.2  | 3196.1 | 10526.0 | 16484.1 | 22229.7 | 23635.0 | 23468.1 | 19322.0 | 14593.2 | 9779.4  | 2789.3 |
| 52.5° | 1062.3 | 4261.4 | 12146.8 | 17428.0 | 22985.5 | 24660.9 | 24457.5 | 19798.5 | 14996.9 | 10225.5 | 2959.3 |
| 55°   | 1129.1 | 4646.9 | 12629.4 | 17719.4 | 23486.3 | 25528.9 | 25234.5 | 20117.2 | 15048.5 | 9906.8  | 2677.0 |
| 57.5° | 1095.7 | 4282.6 | 12316.8 | 18004.7 | 24184.4 | 26421.3 | 26029.8 | 20739.4 | 15221.5 | 9366.6  | 2227.8 |
| 59°   | 1038.0 | 3833.4 | 12122.5 | 18232.4 | 24569.8 | 26560.9 | 26193.7 | 20876.0 | 15336.8 | 9120.7  | 1954.7 |
| 60°   | 971.3  | 3529.9 | 11970.8 | 18381.1 | 24545.5 | 26342.4 | 25963.0 | 20812.3 | 15382.3 | 8908.3  | 1824.1 |
| 62.5° | 749.7  | 2816.7 | 11752.2 | 18274.9 | 23012.8 | 24348.3 | 24132.8 | 19252.2 | 14714.6 | 8228.4  | 1438.7 |
| 65°   | 582.8  | 2155.0 | 10951.0 | 16298.9 | 19583.0 | 20481.4 | 20414.7 | 16302.0 | 12383.6 | 7093.2  | 1038.0 |
| 67.5° | 461.3  | 1572.2 | 9260.4  | 13200.0 | 15755.7 | 17033.5 | 16984.9 | 13233.4 | 9400.0  | 5420.8  | 746.7  |
| 70°   | 376.4  | 1120.0 | 6349.6  | 9952.4  | 12602.1 | 14210.7 | 14140.9 | 10650.5 | 6965.8  | 3438.9  | 543.3  |
| 72.5° | 318.7  | 716.3  | 3851.7  | 7503.0  | 10516.9 | 11436.6 | 11233.2 | 8592.6  | 5065.7  | 1872.7  | 431.0  |
| 75°   | 270.1  | 440.1  | 1909.1  | 4677.2  | 6264.6  | 6258.6  | 6055.2  | 4549.7  | 2719.5  | 916.6   | 343.0  |
| 77.5° | 218.5  | 309.6  | 749.7   | 1283.9  | 1975.9  | 2446.4  | 2406.9  | 1611.7  | 813.4   | 267.1   | 212.5  |
| 80°   | 142.7  | 145.7  | 200.3   | 352.1   | 543.3   | 601.0   | 682.9   | 491.7   | 236.7   | 127.5   | 88.0   |
| 82.5° | 63.7   | 69.8   | 91.1    | 115.3   | 115.3   | 106.2   | 94.1    | 69.8    | 51.6    | 42.5    | 21.2   |
| 85°   | 15.2   | 21.2   | 15.2    | 18.2    | 15.2    | 12.1    | 12.1    | 6.1     | 0.0     | 0.0     | 0.0    |
| 87.5° | 3.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°   | 95°   | 105°  | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 0°    | 27.3  | 27.3  | 27.3  | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 |
| 2.5°  | 24.3  | 24.3  | 24.3  | 21.2 | 21.2 | 21.2 | 18.2 | 18.2 | 18.2 | 15.2 | 15.2 |
| 5°    | 30.4  | 27.3  | 24.3  | 24.3 | 21.2 | 21.2 | 18.2 | 15.2 | 15.2 | 15.2 | 12.1 |
| 7.5°  | 33.4  | 30.4  | 27.3  | 24.3 | 21.2 | 18.2 | 18.2 | 15.2 | 12.1 | 12.1 | 12.1 |
| 10°   | 39.5  | 36.4  | 30.4  | 24.3 | 21.2 | 18.2 | 15.2 | 15.2 | 12.1 | 9.1  | 9.1  |
| 12.5° | 45.5  | 39.5  | 33.4  | 27.3 | 21.2 | 18.2 | 15.2 | 15.2 | 12.1 | 9.1  | 6.1  |
| 15°   | 51.6  | 45.5  | 36.4  | 27.3 | 21.2 | 18.2 | 15.2 | 15.2 | 9.1  | 6.1  | 3.0  |
| 17.5° | 57.7  | 48.6  | 36.4  | 30.4 | 21.2 | 18.2 | 15.2 | 12.1 | 6.1  | 3.0  | 0.0  |
| 20°   | 60.7  | 51.6  | 39.5  | 30.4 | 21.2 | 18.2 | 15.2 | 9.1  | 3.0  | 0.0  | 0.0  |
| 22.5° | 66.8  | 57.7  | 42.5  | 30.4 | 21.2 | 15.2 | 9.1  | 3.0  | 0.0  | 0.0  | 0.0  |
| 25°   | 78.9  | 60.7  | 42.5  | 30.4 | 21.2 | 15.2 | 6.1  | 0.0  | 0.0  | 0.0  | 0.0  |
| 27.5° | 88.0  | 66.8  | 42.5  | 30.4 | 21.2 | 12.1 | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 30°   | 103.2 | 72.8  | 45.5  | 30.4 | 21.2 | 9.1  | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 32.5° | 127.5 | 78.9  | 45.5  | 30.4 | 18.2 | 9.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 35°   | 154.8 | 91.1  | 45.5  | 30.4 | 18.2 | 9.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 37.5° | 157.8 | 97.1  | 45.5  | 30.4 | 18.2 | 6.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 40°   | 163.9 | 91.1  | 48.6  | 30.4 | 18.2 | 6.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 42.5° | 188.2 | 85.0  | 51.6  | 30.4 | 18.2 | 6.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 45°   | 279.2 | 88.0  | 51.6  | 33.4 | 18.2 | 9.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 47.5° | 485.6 | 91.1  | 48.6  | 33.4 | 18.2 | 9.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 50°   | 622.2 | 106.2 | 48.6  | 36.4 | 21.2 | 6.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 52.5° | 661.7 | 124.4 | 48.6  | 39.5 | 27.3 | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 55°   | 643.5 | 145.7 | 51.6  | 42.5 | 33.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 57.5° | 594.9 | 157.8 | 54.6  | 45.5 | 36.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 59°   | 543.3 | 166.9 | 63.7  | 48.6 | 36.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 60°   | 500.8 | 176.0 | 66.8  | 51.6 | 36.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 62.5° | 403.7 | 188.2 | 72.8  | 60.7 | 30.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 65°   | 352.1 | 197.3 | 75.9  | 66.8 | 27.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 67.5° | 321.7 | 203.4 | 82.0  | 69.8 | 24.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 70°   | 297.4 | 200.3 | 88.0  | 66.8 | 21.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 72.5° | 270.1 | 191.2 | 106.2 | 60.7 | 18.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 75°   | 242.8 | 173.0 | 115.3 | 54.6 | 12.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 77.5° | 176.0 | 145.7 | 106.2 | 48.6 | 6.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 80°   | 75.9  | 78.9  | 75.9  | 36.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 82.5° | 15.2  | 18.2  | 15.2  | 9.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |



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**CANDELA DISTRIBUTION (continued):**

|       | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0°    | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 |
| 2.5°  | 15.2 | 15.2 | 15.2 | 15.2 | 18.2 | 18.2 | 24.3 | 30.4 | 36.4 | 39.5 | 39.5 |
| 5°    | 12.1 | 12.1 | 12.1 | 12.1 | 12.1 | 15.2 | 18.2 | 24.3 | 33.4 | 36.4 | 36.4 |
| 7.5°  | 9.1  | 9.1  | 9.1  | 9.1  | 9.1  | 9.1  | 15.2 | 21.2 | 30.4 | 33.4 | 36.4 |
| 10°   | 9.1  | 6.1  | 6.1  | 3.0  | 3.0  | 6.1  | 9.1  | 18.2 | 27.3 | 30.4 | 33.4 |
| 12.5° | 6.1  | 3.0  | 3.0  | 0.0  | 0.0  | 3.0  | 6.1  | 15.2 | 24.3 | 27.3 | 30.4 |
| 15°   | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 12.1 | 21.2 | 24.3 | 30.4 |
| 17.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.1  | 18.2 | 24.3 | 27.3 |
| 20°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.1  | 15.2 | 21.2 | 24.3 |
| 22.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 12.1 | 18.2 | 21.2 |
| 25°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.1  | 12.1 | 15.2 |
| 27.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.1  | 9.1  | 12.1 |
| 30°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.1  | 9.1  | 12.1 |
| 32.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 6.1  | 9.1  |
| 35°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 6.1  | 9.1  |
| 37.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 6.1  | 6.1  |
| 40°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 6.1  |
| 42.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 6.1  |
| 45°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 6.1  |
| 47.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 6.1  |
| 50°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 6.1  |
| 52.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 3.0  |
| 55°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 3.0  |
| 57.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  |
| 59°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  |
| 60°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  |
| 62.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  |
| 65°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  |
| 67.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  |
| 70°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  |
| 72.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  |
| 75°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 3.0  |
| 77.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 6.1  |
| 80°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 6.1  |
| 82.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 3.0  |
| 85°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 3.0  |
| 87.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 3.0  |
| 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: P1066726

CATALOG NUMBER: NVN-SA3B-727-U-LBC

**CANDELA DISTRIBUTION (continued):**

|       | 285° | 295° | 305° | 315° | 318° | 325° | 335° | 345°  | 355°  | 360°   |
|-------|------|------|------|------|------|------|------|-------|-------|--------|
| 0°    | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 | 27.3  | 27.3  | 27.3   |
| 2.5°  | 42.5 | 42.5 | 39.5 | 36.4 | 36.4 | 36.4 | 39.5 | 42.5  | 42.5  | 42.5   |
| 5°    | 39.5 | 39.5 | 36.4 | 36.4 | 36.4 | 36.4 | 39.5 | 45.5  | 48.6  | 48.6   |
| 7.5°  | 39.5 | 39.5 | 36.4 | 36.4 | 36.4 | 36.4 | 39.5 | 45.5  | 48.6  | 51.6   |
| 10°   | 36.4 | 36.4 | 36.4 | 36.4 | 33.4 | 36.4 | 39.5 | 45.5  | 54.6  | 54.6   |
| 12.5° | 36.4 | 36.4 | 36.4 | 36.4 | 33.4 | 36.4 | 42.5 | 48.6  | 57.7  | 60.7   |
| 15°   | 36.4 | 36.4 | 36.4 | 33.4 | 33.4 | 36.4 | 42.5 | 51.6  | 60.7  | 66.8   |
| 17.5° | 33.4 | 36.4 | 36.4 | 33.4 | 33.4 | 36.4 | 42.5 | 51.6  | 66.8  | 75.9   |
| 20°   | 30.4 | 33.4 | 36.4 | 33.4 | 33.4 | 33.4 | 42.5 | 51.6  | 69.8  | 82.0   |
| 22.5° | 27.3 | 30.4 | 33.4 | 33.4 | 30.4 | 33.4 | 42.5 | 54.6  | 75.9  | 91.1   |
| 25°   | 24.3 | 27.3 | 27.3 | 30.4 | 30.4 | 33.4 | 42.5 | 54.6  | 78.9  | 103.2  |
| 27.5° | 18.2 | 21.2 | 24.3 | 27.3 | 27.3 | 33.4 | 42.5 | 57.7  | 85.0  | 127.5  |
| 30°   | 15.2 | 18.2 | 21.2 | 24.3 | 27.3 | 33.4 | 42.5 | 57.7  | 91.1  | 160.9  |
| 32.5° | 15.2 | 18.2 | 21.2 | 24.3 | 27.3 | 30.4 | 42.5 | 60.7  | 100.2 | 200.3  |
| 35°   | 12.1 | 15.2 | 18.2 | 24.3 | 24.3 | 30.4 | 42.5 | 60.7  | 109.3 | 261.0  |
| 37.5° | 12.1 | 15.2 | 18.2 | 24.3 | 24.3 | 30.4 | 42.5 | 60.7  | 133.5 | 291.4  |
| 40°   | 9.1  | 12.1 | 15.2 | 24.3 | 24.3 | 30.4 | 45.5 | 63.7  | 136.6 | 294.4  |
| 42.5° | 9.1  | 12.1 | 15.2 | 21.2 | 24.3 | 30.4 | 45.5 | 63.7  | 127.5 | 303.5  |
| 45°   | 9.1  | 12.1 | 15.2 | 24.3 | 27.3 | 33.4 | 45.5 | 66.8  | 124.4 | 346.0  |
| 47.5° | 9.1  | 12.1 | 15.2 | 24.3 | 30.4 | 33.4 | 45.5 | 66.8  | 127.5 | 494.7  |
| 50°   | 9.1  | 12.1 | 15.2 | 24.3 | 33.4 | 33.4 | 45.5 | 66.8  | 139.6 | 795.2  |
| 52.5° | 6.1  | 9.1  | 12.1 | 21.2 | 27.3 | 36.4 | 48.6 | 63.7  | 148.7 | 1062.3 |
| 55°   | 6.1  | 6.1  | 9.1  | 18.2 | 24.3 | 39.5 | 51.6 | 63.7  | 173.0 | 1129.1 |
| 57.5° | 6.1  | 6.1  | 9.1  | 15.2 | 21.2 | 42.5 | 54.6 | 63.7  | 200.3 | 1095.7 |
| 59°   | 6.1  | 6.1  | 6.1  | 15.2 | 18.2 | 42.5 | 54.6 | 66.8  | 203.4 | 1038.0 |
| 60°   | 6.1  | 6.1  | 6.1  | 12.1 | 18.2 | 42.5 | 57.7 | 69.8  | 206.4 | 971.3  |
| 62.5° | 3.0  | 3.0  | 3.0  | 12.1 | 15.2 | 42.5 | 63.7 | 85.0  | 212.5 | 749.7  |
| 65°   | 6.1  | 6.1  | 3.0  | 9.1  | 15.2 | 36.4 | 72.8 | 91.1  | 215.5 | 582.8  |
| 67.5° | 6.1  | 6.1  | 6.1  | 12.1 | 15.2 | 36.4 | 75.9 | 94.1  | 215.5 | 461.3  |
| 70°   | 6.1  | 6.1  | 6.1  | 12.1 | 18.2 | 36.4 | 75.9 | 97.1  | 212.5 | 376.4  |
| 72.5° | 6.1  | 6.1  | 6.1  | 12.1 | 18.2 | 33.4 | 69.8 | 100.2 | 203.4 | 318.7  |
| 75°   | 6.1  | 6.1  | 6.1  | 9.1  | 15.2 | 30.4 | 66.8 | 109.3 | 185.1 | 270.1  |
| 77.5° | 6.1  | 6.1  | 6.1  | 6.1  | 12.1 | 24.3 | 60.7 | 121.4 | 163.9 | 218.5  |
| 80°   | 9.1  | 6.1  | 6.1  | 6.1  | 9.1  | 21.2 | 57.7 | 118.4 | 136.6 | 142.7  |
| 82.5° | 9.1  | 6.1  | 6.1  | 3.0  | 6.1  | 15.2 | 45.5 | 91.1  | 69.8  | 63.7   |
| 85°   | 6.1  | 6.1  | 6.1  | 3.0  | 3.0  | 9.1  | 21.2 | 27.3  | 21.2  | 15.2   |
| 87.5° | 6.1  | 6.1  | 6.1  | 3.0  | 3.0  | 3.0  | 3.0  | 3.0   | 3.0   | 3.0    |
| 90°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0    |

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-3

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-727-U-5WQ

Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2407-184-3  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry:  $4\pi$   
 Issue Date: 10/15/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: McGraw-Edison  
 Catalog Number: **GSS-SB1A-727-U-5WQ**  
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI  
 2700K CCT 26 LEDS

### Spectral Parameters

|                           |          |           |      |      |       |
|---------------------------|----------|-----------|------|------|-------|
| CCT (K):                  | 2672     | CRI (Ra): | 71.1 |      |       |
| CIE u':                   | 0.2638   | R1:       | 68.3 | R9:  | -27.8 |
| CIE v':                   | 0.5276   | R2:       | 79.8 | R10: | 54.4  |
| Duv:                      | -0.0002  | R3:       | 91.2 | R11: | 65.8  |
| CIE x:                    | 0.4619   | R4:       | 69.4 | R12: | 45.6  |
| CIE y:                    | 0.4106   | R5:       | 66.5 | R13: | 69.8  |
| CIE z:                    | 0.1275   | R6:       | 72.6 | R14: | 94.5  |
| Peak Wavelength (nm):     | 601      | R7:       | 77.0 | R15: | 60.1  |
| Dominant Wavelength (nm): | 584      | R8:       | 44.1 |      |       |
| Purity:                   | 61.88407 |           |      |      |       |
| Rf:                       | 67.9     |           |      |      |       |
| Rg:                       | 98.6     |           |      |      |       |



### Test Conditions

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

REPORT NUMBER: SP1-2407-184-3

| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| Photometer                     | IN0058                | 6/18/2024        | 12/18/2024           |
| Power Meter                    | INXT2011004           | 2/8/2024         | 2/8/2025             |
| AC Power Source                | IN0063                | 10/24/2023       | 10/24/2024           |
| DC Power Source                | IN0208                | 10/24/2023       | 10/24/2024           |
| Sphere Thermometer             | IN0085                | 10/24/2023       | 10/24/2024           |
| Room Thermometer               | IN0046                | 10/24/2023       | 10/24/2024           |



REPORT NUMBER: SP1-2407-184-3

### Photopic Flux vs. Wavelength



### Photopic Lumens: NR

| $\lambda$<br>(nm) | Power<br>$\text{W}/\text{nm}$ | 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               | 52                            | NR                             | 620               | 888                           | NR                             | 750               | 27                            | NR                             | 880               | 1                             | NR                             |
| 365               | 0                             | NR                             | 495               | 87                            | NR                             | 625               | 834                           | NR                             | 755               | 23                            | NR                             | 885               | 1                             | NR                             |
| 370               | 0                             | NR                             | 500               | 135                           | NR                             | 630               | 776                           | NR                             | 760               | 20                            | NR                             | 890               | 1                             | NR                             |
| 375               | 0                             | NR                             | 505               | 196                           | NR                             | 635               | 712                           | NR                             | 765               | 17                            | NR                             | 895               | 0                             | NR                             |
| 380               | 0                             | NR                             | 510               | 258                           | NR                             | 640               | 648                           | NR                             | 770               | 15                            | NR                             | 900               | 0                             | NR                             |
| 385               | 1                             | NR                             | 515               | 317                           | NR                             | 645               | 583                           | NR                             | 775               | 12                            | NR                             | 905               | 0                             | NR                             |
| 390               | 2                             | NR                             | 520               | 368                           | NR                             | 650               | 523                           | NR                             | 780               | 11                            | NR                             | 910               | 0                             | NR                             |
| 395               | 4                             | NR                             | 525               | 408                           | NR                             | 655               | 465                           | NR                             | 785               | 9                             | NR                             | 915               | 0                             | NR                             |
| 400               | 6                             | NR                             | 530               | 443                           | NR                             | 660               | 410                           | NR                             | 790               | 8                             | NR                             | 920               | 0                             | NR                             |
| 405               | 11                            | NR                             | 535               | 473                           | NR                             | 665               | 360                           | NR                             | 795               | 7                             | NR                             | 925               | 0                             | NR                             |
| 410               | 23                            | NR                             | 540               | 498                           | NR                             | 670               | 313                           | NR                             | 800               | 6                             | NR                             | 930               | 0                             | NR                             |
| 415               | 51                            | NR                             | 545               | 530                           | NR                             | 675               | 272                           | NR                             | 805               | 5                             | NR                             | 935               | 0                             | NR                             |
| 420               | 111                           | NR                             | 550               | 563                           | NR                             | 680               | 236                           | NR                             | 810               | 4                             | NR                             | 940               | 0                             | NR                             |
| 425               | 214                           | NR                             | 555               | 605                           | NR                             | 685               | 203                           | NR                             | 815               | 4                             | NR                             | 945               | 0                             | NR                             |
| 430               | 339                           | NR                             | 560               | 651                           | NR                             | 690               | 175                           | NR                             | 820               | 3                             | NR                             | 950               | 0                             | NR                             |
| 435               | 467                           | NR                             | 565               | 705                           | NR                             | 695               | 150                           | NR                             | 825               | 3                             | NR                             | 955               | 0                             | NR                             |
| 440               | 535                           | NR                             | 570               | 765                           | NR                             | 700               | 128                           | NR                             | 830               | 3                             | NR                             | 960               | 0                             | NR                             |
| 445               | 372                           | NR                             | 575               | 824                           | NR                             | 705               | 110                           | NR                             | 835               | 2                             | NR                             | 965               | 0                             | NR                             |
| 450               | 160                           | NR                             | 580               | 882                           | NR                             | 710               | 94                            | NR                             | 840               | 2                             | NR                             | 970               | 0                             | NR                             |
| 455               | 89                            | NR                             | 585               | 930                           | NR                             | 715               | 80                            | NR                             | 845               | 2                             | NR                             | 975               | 0                             | NR                             |
| 460               | 53                            | NR                             | 590               | 968                           | NR                             | 720               | 69                            | NR                             | 850               | 1                             | NR                             | 980               | 0                             | NR                             |
| 465               | 31                            | NR                             | 595               | 991                           | NR                             | 725               | 59                            | NR                             | 855               | 1                             | NR                             | 985               | 0                             | NR                             |
| 470               | 23                            | NR                             | 600               | 999                           | NR                             | 730               | 50                            | NR                             | 860               | 1                             | NR                             | 990               | 0                             | NR                             |
| 475               | 21                            | NR                             | 605               | 992                           | NR                             | 735               | 43                            | NR                             | 865               | 1                             | NR                             | 995               | 0                             | NR                             |
| 480               | 23                            | NR                             | 610               | 969                           | NR                             | 740               | 36                            | NR                             | 870               | 1                             | NR                             | 1000              | 0                             | NR                             |
| 485               | 32                            | NR                             | 615               | 935                           | NR                             | 745               | 31                            | NR                             | 875               | 1                             | NR                             |                   |                               |                                |

REPORT NUMBER: SP1-2407-184-3

### Scotopic Flux vs. Wavelength


**Scotopic Lumens: NR**
**S/P: 1.02**

| λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) |
|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|
| 360       | 0                           | NR               | 490       | 52                          | NR               | 620       | 888                         | NR               | 750       | 27                          | NR               | 880       | 1                           | NR               |
| 365       | 0                           | NR               | 495       | 87                          | NR               | 625       | 834                         | NR               | 755       | 23                          | NR               | 885       | 1                           | NR               |
| 370       | 0                           | NR               | 500       | 135                         | NR               | 630       | 776                         | NR               | 760       | 20                          | NR               | 890       | 1                           | NR               |
| 375       | 0                           | NR               | 505       | 196                         | NR               | 635       | 712                         | NR               | 765       | 17                          | NR               | 895       | 0                           | NR               |
| 380       | 0                           | NR               | 510       | 258                         | NR               | 640       | 648                         | NR               | 770       | 15                          | NR               | 900       | 0                           | NR               |
| 385       | 1                           | NR               | 515       | 317                         | NR               | 645       | 583                         | NR               | 775       | 12                          | NR               | 905       | 0                           | NR               |
| 390       | 2                           | NR               | 520       | 368                         | NR               | 650       | 523                         | NR               | 780       | 11                          | NR               | 910       | 0                           | NR               |
| 395       | 4                           | NR               | 525       | 408                         | NR               | 655       | 465                         | NR               | 785       | 9                           | NR               | 915       | 0                           | NR               |
| 400       | 6                           | NR               | 530       | 443                         | NR               | 660       | 410                         | NR               | 790       | 8                           | NR               | 920       | 0                           | NR               |
| 405       | 11                          | NR               | 535       | 473                         | NR               | 665       | 360                         | NR               | 795       | 7                           | NR               | 925       | 0                           | NR               |
| 410       | 23                          | NR               | 540       | 498                         | NR               | 670       | 313                         | NR               | 800       | 6                           | NR               | 930       | 0                           | NR               |
| 415       | 51                          | NR               | 545       | 530                         | NR               | 675       | 272                         | NR               | 805       | 5                           | NR               | 935       | 0                           | NR               |
| 420       | 111                         | NR               | 550       | 563                         | NR               | 680       | 236                         | NR               | 810       | 4                           | NR               | 940       | 0                           | NR               |
| 425       | 214                         | NR               | 555       | 605                         | NR               | 685       | 203                         | NR               | 815       | 4                           | NR               | 945       | 0                           | NR               |
| 430       | 339                         | NR               | 560       | 651                         | NR               | 690       | 175                         | NR               | 820       | 3                           | NR               | 950       | 0                           | NR               |
| 435       | 467                         | NR               | 565       | 705                         | NR               | 695       | 150                         | NR               | 825       | 3                           | NR               | 955       | 0                           | NR               |
| 440       | 535                         | NR               | 570       | 765                         | NR               | 700       | 128                         | NR               | 830       | 3                           | NR               | 960       | 0                           | NR               |
| 445       | 372                         | NR               | 575       | 824                         | NR               | 705       | 110                         | NR               | 835       | 2                           | NR               | 965       | 0                           | NR               |
| 450       | 160                         | NR               | 580       | 882                         | NR               | 710       | 94                          | NR               | 840       | 2                           | NR               | 970       | 0                           | NR               |
| 455       | 89                          | NR               | 585       | 930                         | NR               | 715       | 80                          | NR               | 845       | 2                           | NR               | 975       | 0                           | NR               |
| 460       | 53                          | NR               | 590       | 968                         | NR               | 720       | 69                          | NR               | 850       | 1                           | NR               | 980       | 0                           | NR               |
| 465       | 31                          | NR               | 595       | 991                         | NR               | 725       | 59                          | NR               | 855       | 1                           | NR               | 985       | 0                           | NR               |
| 470       | 23                          | NR               | 600       | 999                         | NR               | 730       | 50                          | NR               | 860       | 1                           | NR               | 990       | 0                           | NR               |
| 475       | 21                          | NR               | 605       | 992                         | NR               | 735       | 43                          | NR               | 865       | 1                           | NR               | 995       | 0                           | NR               |
| 480       | 23                          | NR               | 610       | 969                         | NR               | 740       | 36                          | NR               | 870       | 1                           | NR               | 1000      | 0                           | NR               |
| 485       | 32                          | NR               | 615       | 935                         | NR               | 745       | 31                          | NR               | 875       | 1                           | NR               |           |                             |                  |

REPORT NUMBER: SP1-2407-184-3

### Melanopic Flux vs. Wavelength


**Melanopic Lumens: NR**
**M/P: 1.71**

| $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) |
|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|
| 360               | 0                                    | NR                             | 490               | 52                                   | NR                             | 620               | 888                                  | NR                             | 750               | 27                                   | NR                             | 880               | 1                                    | NR                             |
| 365               | 0                                    | NR                             | 495               | 87                                   | NR                             | 625               | 834                                  | NR                             | 755               | 23                                   | NR                             | 885               | 1                                    | NR                             |
| 370               | 0                                    | NR                             | 500               | 135                                  | NR                             | 630               | 776                                  | NR                             | 760               | 20                                   | NR                             | 890               | 1                                    | NR                             |
| 375               | 0                                    | NR                             | 505               | 196                                  | NR                             | 635               | 712                                  | NR                             | 765               | 17                                   | NR                             | 895               | 0                                    | NR                             |
| 380               | 0                                    | NR                             | 510               | 258                                  | NR                             | 640               | 648                                  | NR                             | 770               | 15                                   | NR                             | 900               | 0                                    | NR                             |
| 385               | 1                                    | NR                             | 515               | 317                                  | NR                             | 645               | 583                                  | NR                             | 775               | 12                                   | NR                             | 905               | 0                                    | NR                             |
| 390               | 2                                    | NR                             | 520               | 368                                  | NR                             | 650               | 523                                  | NR                             | 780               | 11                                   | NR                             | 910               | 0                                    | NR                             |
| 395               | 4                                    | NR                             | 525               | 408                                  | NR                             | 655               | 465                                  | NR                             | 785               | 9                                    | NR                             | 915               | 0                                    | NR                             |
| 400               | 6                                    | NR                             | 530               | 443                                  | NR                             | 660               | 410                                  | NR                             | 790               | 8                                    | NR                             | 920               | 0                                    | NR                             |
| 405               | 11                                   | NR                             | 535               | 473                                  | NR                             | 665               | 360                                  | NR                             | 795               | 7                                    | NR                             | 925               | 0                                    | NR                             |
| 410               | 23                                   | NR                             | 540               | 498                                  | NR                             | 670               | 313                                  | NR                             | 800               | 6                                    | NR                             | 930               | 0                                    | NR                             |
| 415               | 51                                   | NR                             | 545               | 530                                  | NR                             | 675               | 272                                  | NR                             | 805               | 5                                    | NR                             | 935               | 0                                    | NR                             |
| 420               | 111                                  | NR                             | 550               | 563                                  | NR                             | 680               | 236                                  | NR                             | 810               | 4                                    | NR                             | 940               | 0                                    | NR                             |
| 425               | 214                                  | NR                             | 555               | 605                                  | NR                             | 685               | 203                                  | NR                             | 815               | 4                                    | NR                             | 945               | 0                                    | NR                             |
| 430               | 339                                  | NR                             | 560               | 651                                  | NR                             | 690               | 175                                  | NR                             | 820               | 3                                    | NR                             | 950               | 0                                    | NR                             |
| 435               | 467                                  | NR                             | 565               | 705                                  | NR                             | 695               | 150                                  | NR                             | 825               | 3                                    | NR                             | 955               | 0                                    | NR                             |
| 440               | 535                                  | NR                             | 570               | 765                                  | NR                             | 700               | 128                                  | NR                             | 830               | 3                                    | NR                             | 960               | 0                                    | NR                             |
| 445               | 372                                  | NR                             | 575               | 824                                  | NR                             | 705               | 110                                  | NR                             | 835               | 2                                    | NR                             | 965               | 0                                    | NR                             |
| 450               | 160                                  | NR                             | 580               | 882                                  | NR                             | 710               | 94                                   | NR                             | 840               | 2                                    | NR                             | 970               | 0                                    | NR                             |
| 455               | 89                                   | NR                             | 585               | 930                                  | NR                             | 715               | 80                                   | NR                             | 845               | 2                                    | NR                             | 975               | 0                                    | NR                             |
| 460               | 53                                   | NR                             | 590               | 968                                  | NR                             | 720               | 69                                   | NR                             | 850               | 1                                    | NR                             | 980               | 0                                    | NR                             |
| 465               | 31                                   | NR                             | 595               | 991                                  | NR                             | 725               | 59                                   | NR                             | 855               | 1                                    | NR                             | 985               | 0                                    | NR                             |
| 470               | 23                                   | NR                             | 600               | 999                                  | NR                             | 730               | 50                                   | NR                             | 860               | 1                                    | NR                             | 990               | 0                                    | NR                             |
| 475               | 21                                   | NR                             | 605               | 992                                  | NR                             | 735               | 43                                   | NR                             | 865               | 1                                    | NR                             | 995               | 0                                    | NR                             |
| 480               | 23                                   | NR                             | 610               | 969                                  | NR                             | 740               | 36                                   | NR                             | 870               | 1                                    | NR                             | 1000              | 0                                    | NR                             |
| 485               | 32                                   | NR                             | 615               | 935                                  | NR                             | 745               | 31                                   | NR                             | 875               | 1                                    | NR                             |                   |                                      |                                |

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TM-30-18

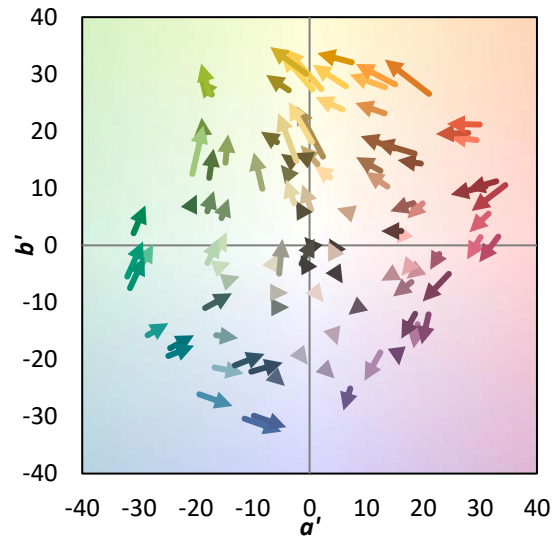
### Summary

$R_f = 67.9$   
 $R_g = 98.6$   
 $CIE R_a = 71.1$   
 $R_g = -27.8$

### Spectral Power Distribution Comparison



### Color Vector Graphics

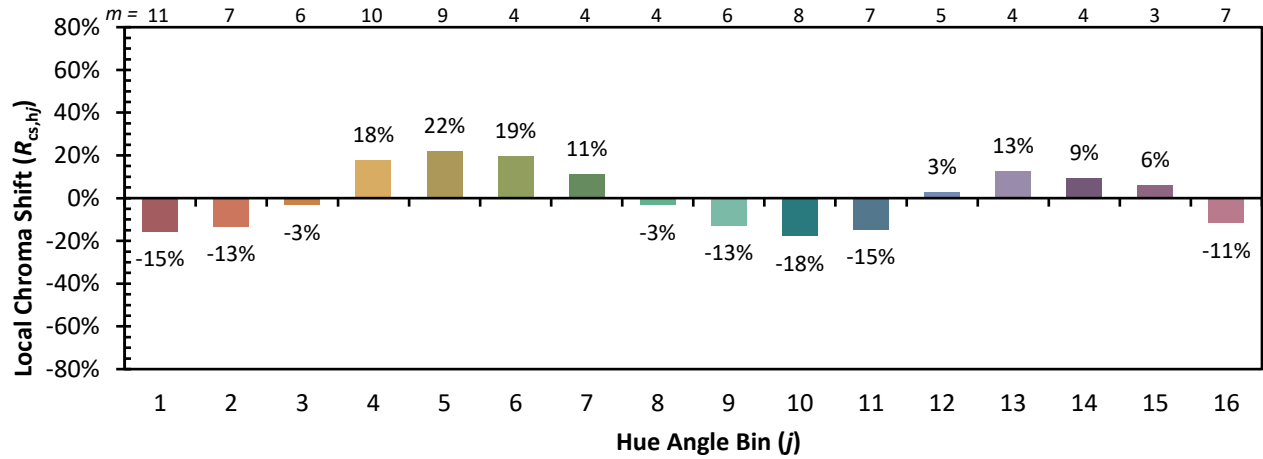


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 53 | CES51 = 75 | CES76 = 51 |
| CES02 = 63 | CES27 = 70 | CES52 = 80 | CES77 = 79 |
| CES03 = 31 | CES28 = 81 | CES53 = 64 | CES78 = 58 |
| CES04 = 71 | CES29 = 37 | CES54 = 73 | CES79 = 82 |
| CES05 = 50 | CES30 = 33 | CES55 = 69 | CES80 = 82 |
| CES06 = 52 | CES31 = 44 | CES56 = 60 | CES81 = 69 |
| CES07 = 42 | CES32 = 47 | CES57 = 54 | CES82 = 92 |
| CES08 = 41 | CES33 = 45 | CES58 = 59 | CES83 = 82 |
| CES09 = 29 | CES34 = 67 | CES59 = 85 | CES84 = 92 |
| CES10 = 77 | CES35 = 84 | CES60 = 86 | CES85 = 87 |
| CES11 = 60 | CES36 = 68 | CES61 = 86 | CES86 = 60 |
| CES12 = 66 | CES37 = 77 | CES62 = 59 | CES87 = 79 |
| CES13 = 44 | CES38 = 40 | CES63 = 66 | CES88 = 70 |
| CES14 = 74 | CES39 = 88 | CES64 = 69 | CES89 = 66 |
| CES15 = 72 | CES40 = 82 | CES65 = 64 | CES90 = 64 |
| CES16 = 48 | CES41 = 70 | CES66 = 65 | CES91 = 81 |
| CES17 = 51 | CES42 = 76 | CES67 = 64 | CES92 = 69 |
| CES18 = 57 | CES43 = 63 | CES68 = 73 | CES93 = 81 |
| CES19 = 73 | CES44 = 97 | CES69 = 83 | CES94 = 53 |
| CES20 = 67 | CES45 = 74 | CES70 = 64 | CES95 = 77 |
| CES21 = 88 | CES46 = 67 | CES71 = 60 | CES96 = 79 |
| CES22 = 80 | CES47 = 55 | CES72 = 87 | CES97 = 78 |
| CES23 = 92 | CES48 = 42 | CES73 = 57 | CES98 = 69 |
| CES24 = 92 | CES49 = 65 | CES74 = 84 | CES99 = 60 |
| CES25 = 73 | CES50 = 74 | CES75 = 60 |            |



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)