

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: P1066855

Luminaire Tested: **NVN-SA5C-827-U-LBC**

Issue Date: 08/07/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1066855  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 08/07/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SA5C-827-U-LBC  
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 5xLight Square PACKAGE  
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (70) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17523.6 lumens  
Efficiency: N/A  
Efficacy: 74.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G3

Input Watts (W): 236  
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



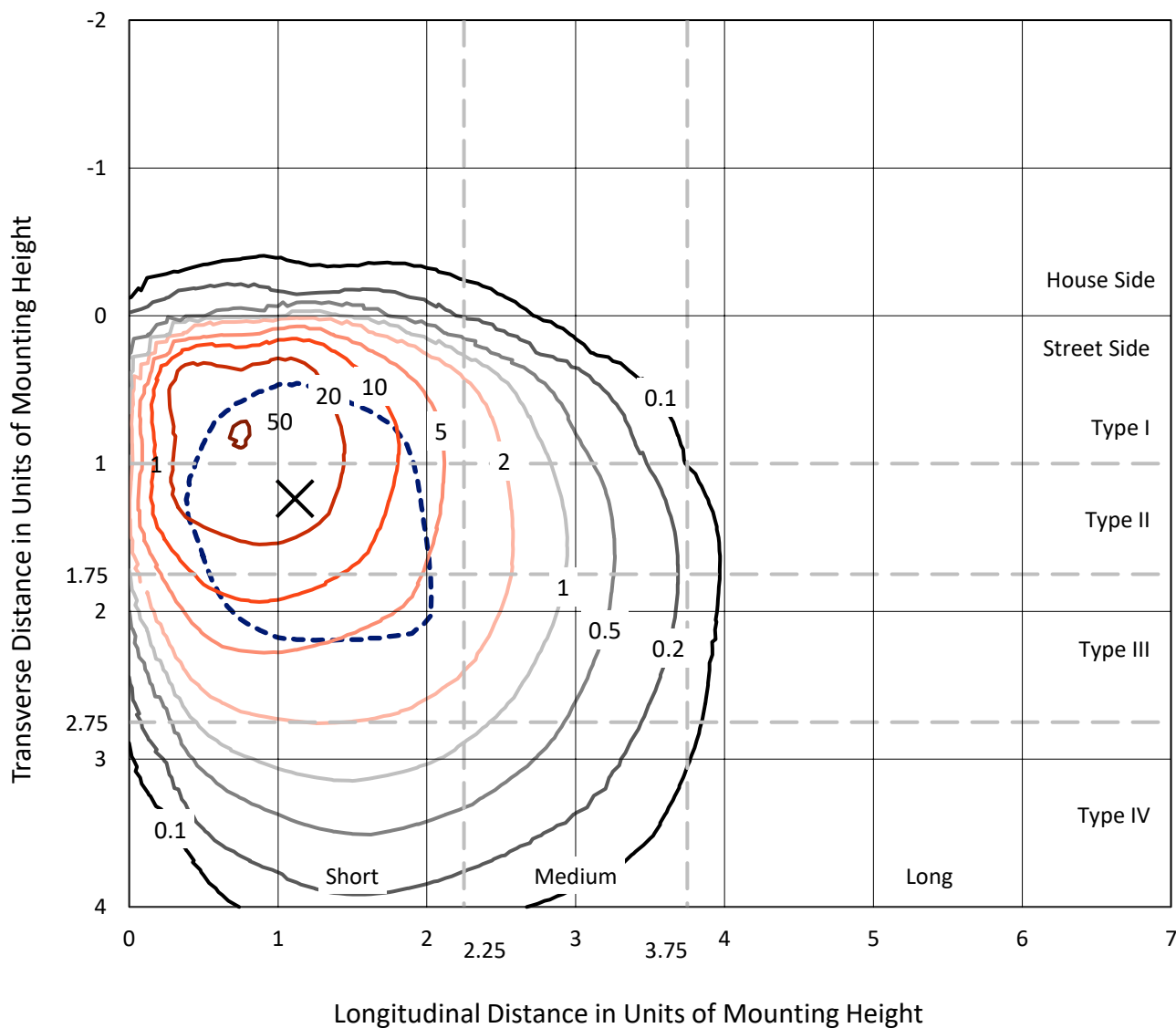
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

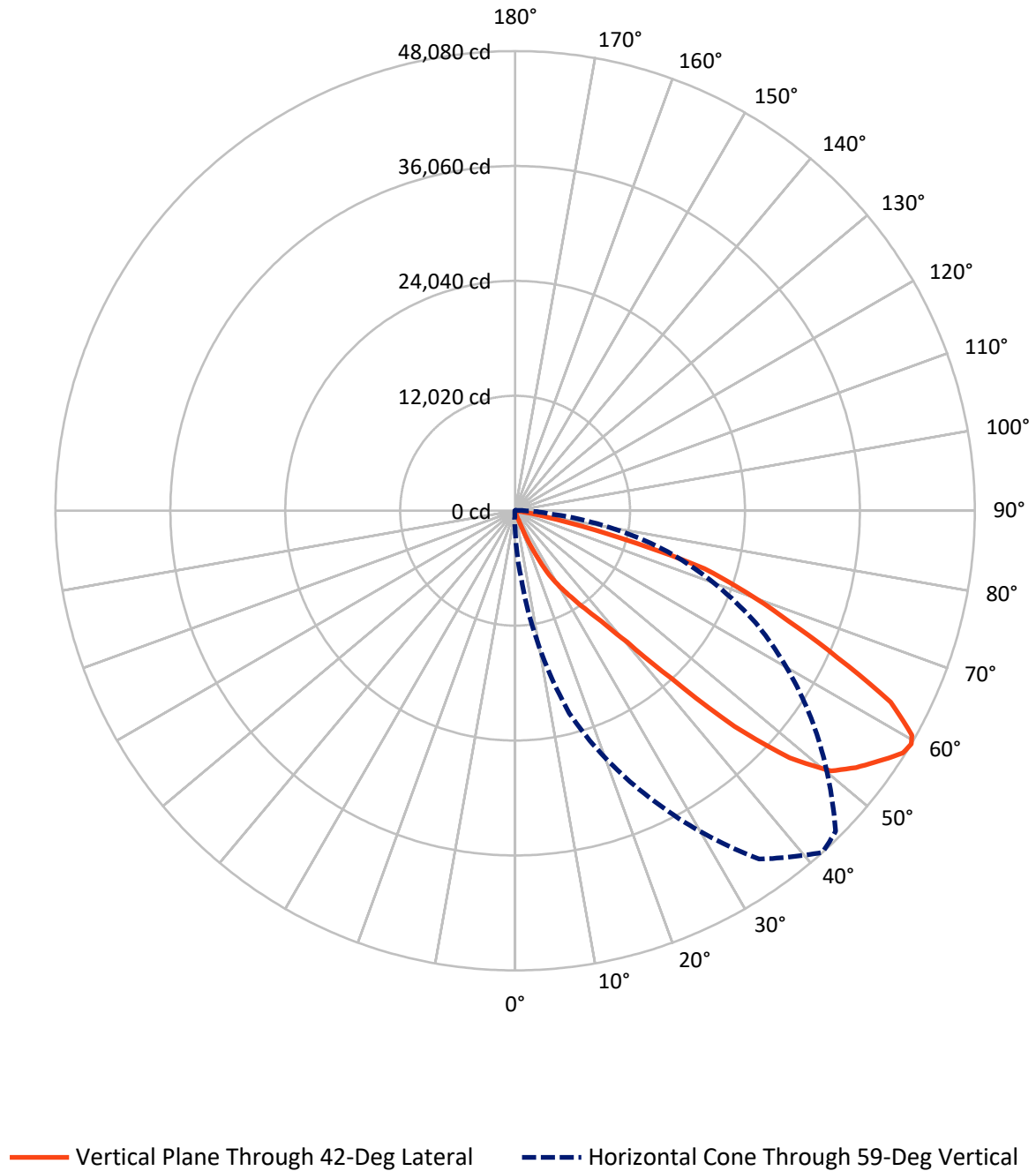


Based on 15 foot mounting height. Maximum calculated value = 52.1 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 84.4     | 0.0    | 84.4    |
|                    | % Fixture | 0.5      | 0.0    | 0.5     |
| <b>Street Side</b> | Lumens    | 17439.2  | 0.0    | 17439.2 |
|                    | % Fixture | 99.5     | 0.0    | 99.5    |
| <b>Total</b>       | Lumens    | 17523.6  | 0.0    | 17523.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 5.1     | 0.0       |
| 10°-20°   | 25.6    | 0.1       |
| 20°-30°   | 326.9   | 1.9       |
| 30°-40°   | 1102.0  | 6.3       |
| 40°-50°   | 3328.5  | 19.0      |
| 50°-60°   | 5875.7  | 33.5      |
| 60°-70°   | 5173.6  | 29.5      |
| 70°-80°   | 1646.8  | 9.4       |
| 80°-90°   | 39.4    | 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°    | 17523.6 | 100.0     |
| 0°-180°   | 17523.6 | 100.0     |



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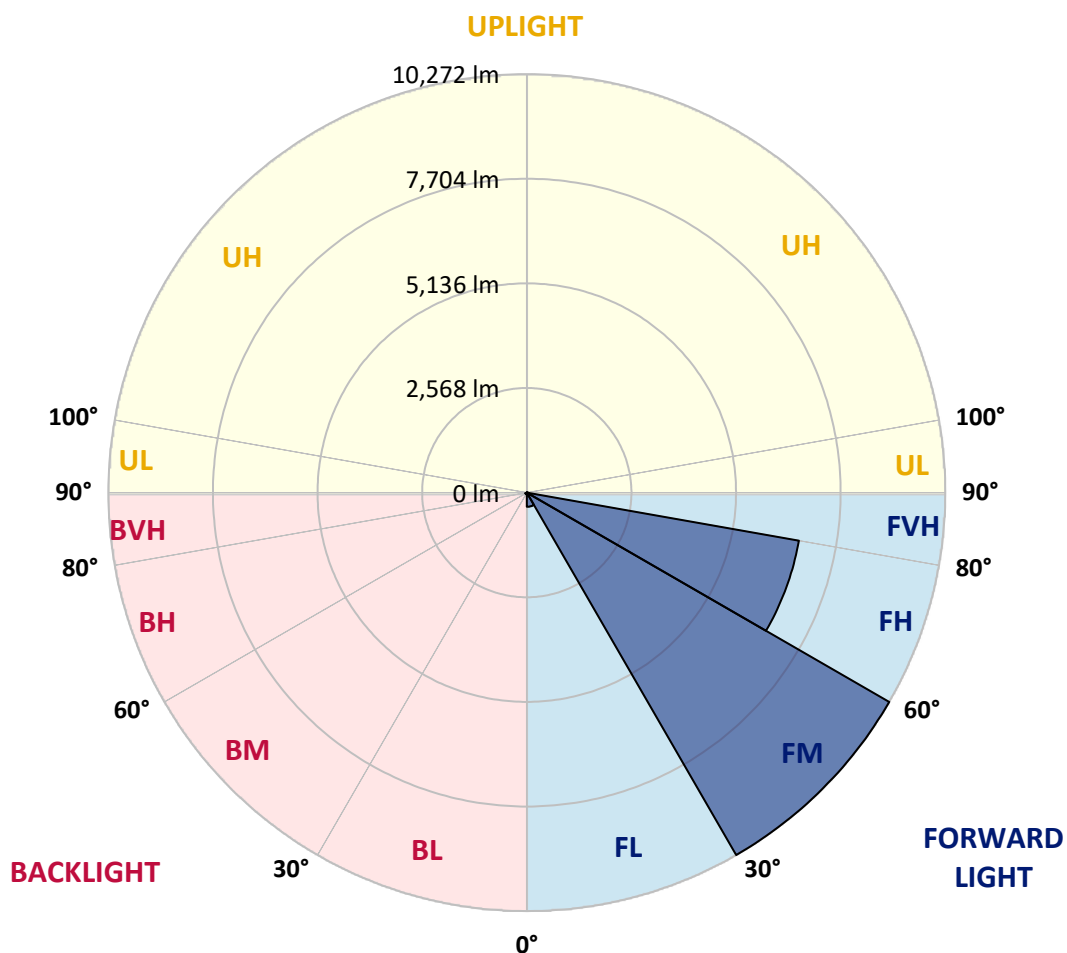
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 348.1   | 2.0       |                         |      |         |
| FM   | (30°-60°)   | 10271.8 | 58.6      |                         |      |         |
| FH   | (60°-80°)   | 6781.8  | 38.7      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 37.5    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 9.4     | 0.1       | B0/110                  |      |         |
| BM   | (30°-60°)   | 34.5    | 0.2       | B0/220                  |      |         |
| BH   | (60°-80°)   | 38.6    | 0.2       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 1.9     | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G3**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°     | 25°     | 35°     | 42°     | 45°     | 55°     | 65°     | 75°     | 85°    |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 49.4   | 49.4   | 49.4    | 49.4    | 49.4    | 49.4    | 49.4    | 49.4    | 49.4    | 49.4    | 49.4   |
| 2.5°  | 76.9   | 76.9   | 71.4    | 65.9    | 60.4    | 54.9    | 54.9    | 54.9    | 49.4    | 49.4    | 44.0   |
| 5°    | 87.9   | 87.9   | 82.4    | 76.9    | 76.9    | 71.4    | 71.4    | 65.9    | 60.4    | 60.4    | 54.9   |
| 7.5°  | 93.4   | 93.4   | 93.4    | 93.4    | 87.9    | 87.9    | 87.9    | 82.4    | 76.9    | 71.4    | 65.9   |
| 10°   | 98.9   | 104.4  | 109.9   | 109.9   | 109.9   | 109.9   | 109.9   | 104.4   | 93.4    | 87.9    | 76.9   |
| 12.5° | 109.9  | 115.4  | 126.4   | 137.4   | 137.4   | 142.9   | 137.4   | 131.9   | 120.9   | 104.4   | 87.9   |
| 15°   | 120.9  | 131.9  | 148.3   | 170.3   | 192.3   | 197.8   | 197.8   | 181.3   | 159.3   | 126.4   | 104.4  |
| 17.5° | 137.4  | 153.8  | 197.8   | 269.2   | 346.1   | 406.6   | 406.6   | 362.6   | 252.7   | 164.8   | 120.9  |
| 20°   | 148.3  | 181.3  | 318.7   | 648.3   | 989.0   | 1241.7  | 1192.3  | 1054.9  | 565.9   | 258.2   | 131.9  |
| 22.5° | 164.8  | 230.8  | 675.8   | 1703.2  | 2637.2  | 3098.8  | 2988.9  | 2269.1  | 1269.2  | 461.5   | 159.3  |
| 25°   | 186.8  | 335.1  | 1340.6  | 3192.2  | 4900.9  | 5400.8  | 5329.4  | 4236.1  | 2313.1  | 774.7   | 203.3  |
| 27.5° | 230.8  | 494.5  | 2148.2  | 4840.4  | 7230.4  | 7659.0  | 7631.5  | 6203.0  | 3697.6  | 1247.2  | 263.7  |
| 30°   | 291.2  | 719.7  | 3186.7  | 6576.6  | 8774.3  | 9208.3  | 9071.0  | 7642.5  | 4988.8  | 1906.5  | 340.6  |
| 32.5° | 362.6  | 1005.4 | 4126.2  | 7856.8  | 10197.3 | 10768.7 | 10603.9 | 8895.2  | 6027.2  | 2466.9  | 505.5  |
| 35°   | 472.5  | 1285.7 | 5054.7  | 8988.6  | 11840.1 | 12565.3 | 12290.6 | 10186.3 | 6922.7  | 3098.8  | 609.9  |
| 37.5° | 527.4  | 1450.5 | 5906.3  | 10219.3 | 13686.2 | 14675.1 | 14466.3 | 11818.1 | 7834.8  | 3906.4  | 747.2  |
| 40°   | 532.9  | 1648.3 | 6790.9  | 11823.6 | 16295.9 | 18059.6 | 17686.0 | 14620.2 | 9532.5  | 4944.8  | 961.5  |
| 42.5° | 549.4  | 1945.0 | 7939.2  | 14559.7 | 21422.0 | 23954.9 | 23531.8 | 19773.8 | 13384.0 | 7027.1  | 1362.6 |
| 45°   | 626.3  | 2505.4 | 10279.7 | 19674.9 | 28460.2 | 32174.3 | 31685.3 | 26954.7 | 18762.8 | 10944.5 | 2324.1 |
| 47.5° | 895.6  | 3769.0 | 14383.9 | 25196.6 | 35657.6 | 38619.0 | 38498.1 | 32613.8 | 23636.2 | 14960.8 | 3939.4 |
| 50°   | 1439.5 | 5785.4 | 19054.0 | 29839.2 | 40239.8 | 42783.6 | 42481.5 | 34976.3 | 26416.3 | 17702.4 | 5049.2 |
| 52.5° | 1923.0 | 7713.9 | 21987.9 | 31547.9 | 41607.9 | 44640.7 | 44272.6 | 35838.9 | 27147.0 | 18510.1 | 5356.9 |
| 55°   | 2043.9 | 8411.7 | 22861.5 | 32075.4 | 42514.4 | 46212.1 | 45679.1 | 36415.8 | 27240.4 | 17933.2 | 4845.9 |
| 57.5° | 1983.4 | 7752.4 | 22295.6 | 32591.8 | 43778.1 | 47827.4 | 47118.6 | 37542.1 | 27553.6 | 16955.2 | 4032.8 |
| 59°   | 1879.0 | 6939.2 | 21944.0 | 33003.9 | 44475.9 | 48080.1 | 47415.3 | 37789.4 | 27762.4 | 16510.2 | 3538.3 |
| 60°   | 1758.2 | 6389.8 | 21669.3 | 33273.1 | 44431.9 | 47684.5 | 46997.7 | 37674.0 | 27844.8 | 16125.6 | 3302.0 |
| 62.5° | 1357.1 | 5098.7 | 21273.7 | 33080.8 | 41657.3 | 44074.8 | 43684.7 | 34850.0 | 26636.1 | 14894.9 | 2604.3 |
| 65°   | 1054.9 | 3900.9 | 19823.2 | 29504.1 | 35448.8 | 37075.1 | 36954.3 | 29509.6 | 22416.5 | 12840.0 | 1879.0 |
| 67.5° | 835.1  | 2846.0 | 16762.9 | 23894.5 | 28520.6 | 30833.7 | 30745.8 | 23954.9 | 17015.7 | 9812.7  | 1351.6 |
| 70°   | 681.3  | 2027.4 | 11494.0 | 18015.6 | 22812.1 | 25724.0 | 25597.7 | 19279.3 | 12609.3 | 6225.0  | 983.5  |
| 72.5° | 576.9  | 1296.6 | 6972.2  | 13581.8 | 19037.5 | 20702.3 | 20334.2 | 15554.2 | 9169.9  | 3389.9  | 780.2  |
| 75°   | 489.0  | 796.7  | 3455.9  | 8466.6  | 11340.1 | 11329.1 | 10961.0 | 8235.9  | 4922.8  | 1659.3  | 620.8  |
| 77.5° | 395.6  | 560.4  | 1357.1  | 2324.1  | 3576.8  | 4428.4  | 4356.9  | 2917.4  | 1472.5  | 483.5   | 384.6  |
| 80°   | 258.2  | 263.7  | 362.6   | 637.3   | 983.5   | 1087.9  | 1236.2  | 890.1   | 428.6   | 230.8   | 159.3  |
| 82.5° | 115.4  | 126.4  | 164.8   | 208.8   | 208.8   | 192.3   | 170.3   | 126.4   | 93.4    | 76.9    | 38.5   |
| 85°   | 27.5   | 38.5   | 27.5    | 33.0    | 27.5    | 22.0    | 22.0    | 11.0    | 0.0     | 0.0     | 0.0    |
| 87.5° | 5.5    | 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°    | 49.4   | 49.4  | 49.4  | 49.4  | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 |
| 2.5°  | 44.0   | 44.0  | 44.0  | 38.5  | 38.5 | 38.5 | 33.0 | 33.0 | 33.0 | 27.5 | 27.5 |
| 5°    | 54.9   | 49.4  | 44.0  | 44.0  | 38.5 | 38.5 | 33.0 | 27.5 | 27.5 | 27.5 | 22.0 |
| 7.5°  | 60.4   | 54.9  | 49.4  | 44.0  | 38.5 | 33.0 | 33.0 | 27.5 | 22.0 | 22.0 | 22.0 |
| 10°   | 71.4   | 65.9  | 54.9  | 44.0  | 38.5 | 33.0 | 27.5 | 27.5 | 22.0 | 16.5 | 16.5 |
| 12.5° | 82.4   | 71.4  | 60.4  | 49.4  | 38.5 | 33.0 | 27.5 | 27.5 | 22.0 | 16.5 | 11.0 |
| 15°   | 93.4   | 82.4  | 65.9  | 49.4  | 38.5 | 33.0 | 27.5 | 27.5 | 16.5 | 11.0 | 5.5  |
| 17.5° | 104.4  | 87.9  | 65.9  | 54.9  | 38.5 | 33.0 | 27.5 | 22.0 | 11.0 | 5.5  | 0.0  |
| 20°   | 109.9  | 93.4  | 71.4  | 54.9  | 38.5 | 33.0 | 27.5 | 16.5 | 5.5  | 0.0  | 0.0  |
| 22.5° | 120.9  | 104.4 | 76.9  | 54.9  | 38.5 | 27.5 | 16.5 | 5.5  | 0.0  | 0.0  | 0.0  |
| 25°   | 142.9  | 109.9 | 76.9  | 54.9  | 38.5 | 27.5 | 11.0 | 0.0  | 0.0  | 0.0  | 0.0  |
| 27.5° | 159.3  | 120.9 | 76.9  | 54.9  | 38.5 | 22.0 | 5.5  | 0.0  | 0.0  | 0.0  | 0.0  |
| 30°   | 186.8  | 131.9 | 82.4  | 54.9  | 38.5 | 16.5 | 5.5  | 0.0  | 0.0  | 0.0  | 0.0  |
| 32.5° | 230.8  | 142.9 | 82.4  | 54.9  | 33.0 | 16.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 35°   | 280.2  | 164.8 | 82.4  | 54.9  | 33.0 | 16.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 37.5° | 285.7  | 175.8 | 82.4  | 54.9  | 33.0 | 11.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 40°   | 296.7  | 164.8 | 87.9  | 54.9  | 33.0 | 11.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 42.5° | 340.6  | 153.8 | 93.4  | 54.9  | 33.0 | 11.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 45°   | 505.5  | 159.3 | 93.4  | 60.4  | 33.0 | 16.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 47.5° | 879.1  | 164.8 | 87.9  | 60.4  | 33.0 | 16.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 50°   | 1126.3 | 192.3 | 87.9  | 65.9  | 38.5 | 11.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 52.5° | 1197.7 | 225.3 | 87.9  | 71.4  | 49.4 | 5.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 55°   | 1164.8 | 263.7 | 93.4  | 76.9  | 60.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 57.5° | 1076.9 | 285.7 | 98.9  | 82.4  | 65.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 59°   | 983.5  | 302.2 | 115.4 | 87.9  | 65.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 60°   | 906.5  | 318.7 | 120.9 | 93.4  | 65.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 62.5° | 730.7  | 340.6 | 131.9 | 109.9 | 54.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 65°   | 637.3  | 357.1 | 137.4 | 120.9 | 49.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 67.5° | 582.4  | 368.1 | 148.3 | 126.4 | 44.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 70°   | 538.4  | 362.6 | 159.3 | 120.9 | 38.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 72.5° | 489.0  | 346.1 | 192.3 | 109.9 | 33.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 75°   | 439.5  | 313.2 | 208.8 | 98.9  | 22.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 77.5° | 318.7  | 263.7 | 192.3 | 87.9  | 11.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 80°   | 137.4  | 142.9 | 137.4 | 65.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 82.5° | 27.5   | 33.0  | 27.5  | 16.5  | 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°    | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 |
| 2.5°  | 27.5 | 27.5 | 27.5 | 27.5 | 33.0 | 33.0 | 44.0 | 54.9 | 65.9 | 71.4 | 71.4 |
| 5°    | 22.0 | 22.0 | 22.0 | 22.0 | 22.0 | 27.5 | 33.0 | 44.0 | 60.4 | 65.9 | 65.9 |
| 7.5°  | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 27.5 | 38.5 | 54.9 | 60.4 | 65.9 |
| 10°   | 16.5 | 11.0 | 11.0 | 5.5  | 5.5  | 11.0 | 16.5 | 33.0 | 49.4 | 54.9 | 60.4 |
| 12.5° | 11.0 | 5.5  | 5.5  | 0.0  | 0.0  | 5.5  | 11.0 | 27.5 | 44.0 | 49.4 | 54.9 |
| 15°   | 5.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.5  | 22.0 | 38.5 | 44.0 | 54.9 |
| 17.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 16.5 | 33.0 | 44.0 | 49.4 |
| 20°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 11.0 | 27.5 | 38.5 | 44.0 |
| 22.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.5  | 22.0 | 33.0 | 38.5 |
| 25°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 16.5 | 22.0 | 27.5 |
| 27.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 11.0 | 16.5 | 22.0 |
| 30°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 11.0 | 16.5 | 22.0 |
| 32.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.5  | 11.0 | 16.5 |
| 35°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.5  | 11.0 | 16.5 |
| 37.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.5  | 11.0 | 11.0 |
| 40°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.5  | 11.0 |
| 42.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.5  | 11.0 |
| 45°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.5  | 11.0 |
| 47.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.5  | 11.0 |
| 50°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.5  | 11.0 |
| 52.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.5  | 5.5  |
| 55°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.5  | 5.5  |
| 57.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.5  |
| 59°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.5  |
| 60°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.5  |
| 62.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.5  |
| 65°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.5  |
| 67.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.5  |
| 70°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.5  |
| 72.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.5  |
| 75°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.5  | 5.5  |
| 77.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.5  | 11.0 |
| 80°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.5  | 11.0 |
| 82.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.5  | 5.5  |
| 85°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.5  | 5.5  |
| 87.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.5  | 5.5  |
| 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: P1066855

CATALOG NUMBER: NVN-SA5C-827-U-LBC

**CANDELA DISTRIBUTION (continued):**

|       | 285° | 295° | 305° | 315° | 318° | 325° | 335°  | 345°  | 355°  | 360°   |
|-------|------|------|------|------|------|------|-------|-------|-------|--------|
| 0°    | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4  | 49.4  | 49.4  | 49.4   |
| 2.5°  | 76.9 | 76.9 | 71.4 | 65.9 | 65.9 | 65.9 | 71.4  | 76.9  | 76.9  | 76.9   |
| 5°    | 71.4 | 71.4 | 65.9 | 65.9 | 65.9 | 65.9 | 71.4  | 82.4  | 87.9  | 87.9   |
| 7.5°  | 71.4 | 71.4 | 65.9 | 65.9 | 65.9 | 65.9 | 71.4  | 82.4  | 87.9  | 93.4   |
| 10°   | 65.9 | 65.9 | 65.9 | 65.9 | 60.4 | 65.9 | 71.4  | 82.4  | 98.9  | 98.9   |
| 12.5° | 65.9 | 65.9 | 65.9 | 65.9 | 60.4 | 65.9 | 76.9  | 87.9  | 104.4 | 109.9  |
| 15°   | 65.9 | 65.9 | 65.9 | 60.4 | 60.4 | 65.9 | 76.9  | 93.4  | 109.9 | 120.9  |
| 17.5° | 60.4 | 65.9 | 65.9 | 60.4 | 60.4 | 65.9 | 76.9  | 93.4  | 120.9 | 137.4  |
| 20°   | 54.9 | 60.4 | 65.9 | 60.4 | 60.4 | 60.4 | 76.9  | 93.4  | 126.4 | 148.3  |
| 22.5° | 49.4 | 54.9 | 60.4 | 60.4 | 54.9 | 60.4 | 76.9  | 98.9  | 137.4 | 164.8  |
| 25°   | 44.0 | 49.4 | 49.4 | 54.9 | 54.9 | 60.4 | 76.9  | 98.9  | 142.9 | 186.8  |
| 27.5° | 33.0 | 38.5 | 44.0 | 49.4 | 49.4 | 60.4 | 76.9  | 104.4 | 153.8 | 230.8  |
| 30°   | 27.5 | 33.0 | 38.5 | 44.0 | 49.4 | 60.4 | 76.9  | 104.4 | 164.8 | 291.2  |
| 32.5° | 27.5 | 33.0 | 38.5 | 44.0 | 49.4 | 54.9 | 76.9  | 109.9 | 181.3 | 362.6  |
| 35°   | 22.0 | 27.5 | 33.0 | 44.0 | 44.0 | 54.9 | 76.9  | 109.9 | 197.8 | 472.5  |
| 37.5° | 22.0 | 27.5 | 33.0 | 44.0 | 44.0 | 54.9 | 76.9  | 109.9 | 241.7 | 527.4  |
| 40°   | 16.5 | 22.0 | 27.5 | 44.0 | 44.0 | 54.9 | 82.4  | 115.4 | 247.2 | 532.9  |
| 42.5° | 16.5 | 22.0 | 27.5 | 38.5 | 44.0 | 54.9 | 82.4  | 115.4 | 230.8 | 549.4  |
| 45°   | 16.5 | 22.0 | 27.5 | 44.0 | 49.4 | 60.4 | 82.4  | 120.9 | 225.3 | 626.3  |
| 47.5° | 16.5 | 22.0 | 27.5 | 44.0 | 54.9 | 60.4 | 82.4  | 120.9 | 230.8 | 895.6  |
| 50°   | 16.5 | 22.0 | 27.5 | 44.0 | 60.4 | 60.4 | 82.4  | 120.9 | 252.7 | 1439.5 |
| 52.5° | 11.0 | 16.5 | 22.0 | 38.5 | 49.4 | 65.9 | 87.9  | 115.4 | 269.2 | 1923.0 |
| 55°   | 11.0 | 11.0 | 16.5 | 33.0 | 44.0 | 71.4 | 93.4  | 115.4 | 313.2 | 2043.9 |
| 57.5° | 11.0 | 11.0 | 16.5 | 27.5 | 38.5 | 76.9 | 98.9  | 115.4 | 362.6 | 1983.4 |
| 59°   | 11.0 | 11.0 | 11.0 | 22.0 | 33.0 | 76.9 | 104.4 | 126.4 | 373.6 | 1758.2 |
| 60°   | 11.0 | 11.0 | 11.0 | 22.0 | 33.0 | 76.9 | 104.4 | 126.4 | 373.6 | 1758.2 |
| 62.5° | 5.5  | 5.5  | 5.5  | 22.0 | 27.5 | 76.9 | 115.4 | 153.8 | 384.6 | 1357.1 |
| 65°   | 11.0 | 11.0 | 5.5  | 16.5 | 27.5 | 65.9 | 131.9 | 164.8 | 390.1 | 1054.9 |
| 67.5° | 11.0 | 11.0 | 11.0 | 22.0 | 27.5 | 65.9 | 137.4 | 170.3 | 390.1 | 835.1  |
| 70°   | 11.0 | 11.0 | 11.0 | 22.0 | 33.0 | 65.9 | 137.4 | 175.8 | 384.6 | 681.3  |
| 72.5° | 11.0 | 11.0 | 11.0 | 22.0 | 33.0 | 60.4 | 126.4 | 181.3 | 368.1 | 576.9  |
| 75°   | 11.0 | 11.0 | 11.0 | 16.5 | 27.5 | 54.9 | 120.9 | 197.8 | 335.1 | 489.0  |
| 77.5° | 11.0 | 11.0 | 11.0 | 11.0 | 22.0 | 44.0 | 109.9 | 219.8 | 296.7 | 395.6  |
| 80°   | 16.5 | 11.0 | 11.0 | 11.0 | 16.5 | 38.5 | 104.4 | 214.3 | 247.2 | 258.2  |
| 82.5° | 16.5 | 11.0 | 11.0 | 5.5  | 11.0 | 27.5 | 82.4  | 164.8 | 126.4 | 115.4  |
| 85°   | 11.0 | 11.0 | 11.0 | 5.5  | 5.5  | 16.5 | 38.5  | 49.4  | 38.5  | 27.5   |
| 87.5° | 11.0 | 11.0 | 11.0 | 5.5  | 5.5  | 5.5  | 5.5   | 5.5   | 5.5   | 5.5    |
| 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: SP1-2407-184-8

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-827-U-5WQ

Data in this report applies to families of products including GSS-SB1A-827-U-5WQ

### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2407-184-8  
 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-827-U-5WQ**  
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI  
 2700K CCT 26 LEDS

### Spectral Parameters

CCT (K): 2756  
 CIE  $u'$ : 0.2599  
 CIE  $v'$ : 0.5271  
 Duv: 0.0006  
 CIE x: 0.4563  
 CIE y: 0.4112  
 CIE z: 0.1325  
 Peak Wavelength (nm): 609  
 Dominant Wavelength (nm): 583  
 Purity: 60.41121  
 R<sub>f</sub>: 82.2  
 R<sub>g</sub>: 99.9

CRI (Ra): 82.9  
 R1: 81.6  
 R2: 88.8  
 R3: 96.0  
 R4: 83.4  
 R5: 81.4  
 R6: 87.0  
 R7: 84.0  
 R8: 60.8  
 R9: 10.8  
 R10: 74.8  
 R11: 84.3  
 R12: 72.1  
 R13: 82.9  
 R14: 97.3  
 R15: 73.7



### Test Conditions

Stabilization Time: 29M  
 Operation Time: 1H 29M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-8

| 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: SP1-2407-184-8

**CIE 1931 Chromaticity Diagram**



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



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-8

### Photopic Flux vs. Wavelength



### Photopic Lumens: NR

| $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) |
|-------------------|----------------------------------------|--------------------------------|-------------------|----------------------------------------|--------------------------------|-------------------|----------------------------------------|--------------------------------|-------------------|----------------------------------------|--------------------------------|-------------------|----------------------------------------|--------------------------------|
| 360               | 0                                      | NR                             | 490               | 158                                    | NR                             | 620               | 959                                    | NR                             | 750               | 35                                     | NR                             | 880               | 1                                      | NR                             |
| 365               | 0                                      | NR                             | 495               | 211                                    | NR                             | 625               | 918                                    | NR                             | 755               | 30                                     | NR                             | 885               | 1                                      | NR                             |
| 370               | 0                                      | NR                             | 500               | 264                                    | NR                             | 630               | 873                                    | NR                             | 760               | 26                                     | NR                             | 890               | 1                                      | NR                             |
| 375               | 0                                      | NR                             | 505               | 318                                    | NR                             | 635               | 816                                    | NR                             | 765               | 22                                     | NR                             | 895               | 1                                      | NR                             |
| 380               | 0                                      | NR                             | 510               | 363                                    | NR                             | 640               | 755                                    | NR                             | 770               | 19                                     | NR                             | 900               | 1                                      | NR                             |
| 385               | 0                                      | NR                             | 515               | 403                                    | NR                             | 645               | 689                                    | NR                             | 775               | 16                                     | NR                             | 905               | 1                                      | NR                             |
| 390               | 0                                      | NR                             | 520               | 435                                    | NR                             | 650               | 626                                    | NR                             | 780               | 14                                     | NR                             | 910               | 0                                      | NR                             |
| 395               | 1                                      | NR                             | 525               | 459                                    | NR                             | 655               | 564                                    | NR                             | 785               | 12                                     | NR                             | 915               | 0                                      | NR                             |
| 400               | 3                                      | NR                             | 530               | 481                                    | NR                             | 660               | 503                                    | NR                             | 790               | 10                                     | NR                             | 920               | 0                                      | NR                             |
| 405               | 6                                      | NR                             | 535               | 501                                    | NR                             | 665               | 447                                    | NR                             | 795               | 9                                      | NR                             | 925               | 0                                      | NR                             |
| 410               | 13                                     | NR                             | 540               | 519                                    | NR                             | 670               | 392                                    | NR                             | 800               | 8                                      | NR                             | 930               | 0                                      | NR                             |
| 415               | 26                                     | NR                             | 545               | 542                                    | NR                             | 675               | 343                                    | NR                             | 805               | 7                                      | NR                             | 935               | 0                                      | NR                             |
| 420               | 51                                     | NR                             | 550               | 565                                    | NR                             | 680               | 299                                    | NR                             | 810               | 6                                      | NR                             | 940               | 0                                      | NR                             |
| 425               | 93                                     | NR                             | 555               | 593                                    | NR                             | 685               | 260                                    | NR                             | 815               | 5                                      | NR                             | 945               | 0                                      | NR                             |
| 430               | 156                                    | NR                             | 560               | 624                                    | NR                             | 690               | 225                                    | NR                             | 820               | 4                                      | NR                             | 950               | 0                                      | NR                             |
| 435               | 250                                    | NR                             | 565               | 662                                    | NR                             | 695               | 194                                    | NR                             | 825               | 4                                      | NR                             | 955               | 0                                      | NR                             |
| 440               | 391                                    | NR                             | 570               | 707                                    | NR                             | 700               | 166                                    | NR                             | 830               | 3                                      | NR                             | 960               | 0                                      | NR                             |
| 445               | 460                                    | NR                             | 575               | 756                                    | NR                             | 705               | 143                                    | NR                             | 835               | 3                                      | NR                             | 965               | 0                                      | NR                             |
| 450               | 293                                    | NR                             | 580               | 810                                    | NR                             | 710               | 122                                    | NR                             | 840               | 2                                      | NR                             | 970               | 0                                      | NR                             |
| 455               | 188                                    | NR                             | 585               | 860                                    | NR                             | 715               | 105                                    | NR                             | 845               | 2                                      | NR                             | 975               | 0                                      | NR                             |
| 460               | 149                                    | NR                             | 590               | 910                                    | NR                             | 720               | 90                                     | NR                             | 850               | 2                                      | NR                             | 980               | 0                                      | NR                             |
| 465               | 103                                    | NR                             | 595               | 950                                    | NR                             | 725               | 77                                     | NR                             | 855               | 2                                      | NR                             | 985               | 0                                      | NR                             |
| 470               | 80                                     | NR                             | 600               | 980                                    | NR                             | 730               | 66                                     | NR                             | 860               | 1                                      | NR                             | 990               | 0                                      | NR                             |
| 475               | 82                                     | NR                             | 605               | 995                                    | NR                             | 735               | 56                                     | NR                             | 865               | 1                                      | NR                             | 995               | 0                                      | NR                             |
| 480               | 92                                     | NR                             | 610               | 998                                    | NR                             | 740               | 48                                     | NR                             | 870               | 1                                      | NR                             | 1000              | 0                                      | NR                             |
| 485               | 116                                    | NR                             | 615               | 985                                    | NR                             | 745               | 41                                     | NR                             | 875               | 1                                      | NR                             |                   |                                        |                                |

REPORT NUMBER: SP1-2407-184-8

### Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.2

| 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       | 158                         | NR               | 620       | 959                         | NR               | 750       | 35                          | NR               | 880       | 1                           | NR               |
| 365       | 0                           | NR               | 495       | 211                         | NR               | 625       | 918                         | NR               | 755       | 30                          | NR               | 885       | 1                           | NR               |
| 370       | 0                           | NR               | 500       | 264                         | NR               | 630       | 873                         | NR               | 760       | 26                          | NR               | 890       | 1                           | NR               |
| 375       | 0                           | NR               | 505       | 318                         | NR               | 635       | 816                         | NR               | 765       | 22                          | NR               | 895       | 1                           | NR               |
| 380       | 0                           | NR               | 510       | 363                         | NR               | 640       | 755                         | NR               | 770       | 19                          | NR               | 900       | 1                           | NR               |
| 385       | 0                           | NR               | 515       | 403                         | NR               | 645       | 689                         | NR               | 775       | 16                          | NR               | 905       | 1                           | NR               |
| 390       | 0                           | NR               | 520       | 435                         | NR               | 650       | 626                         | NR               | 780       | 14                          | NR               | 910       | 0                           | NR               |
| 395       | 1                           | NR               | 525       | 459                         | NR               | 655       | 564                         | NR               | 785       | 12                          | NR               | 915       | 0                           | NR               |
| 400       | 3                           | NR               | 530       | 481                         | NR               | 660       | 503                         | NR               | 790       | 10                          | NR               | 920       | 0                           | NR               |
| 405       | 6                           | NR               | 535       | 501                         | NR               | 665       | 447                         | NR               | 795       | 9                           | NR               | 925       | 0                           | NR               |
| 410       | 13                          | NR               | 540       | 519                         | NR               | 670       | 392                         | NR               | 800       | 8                           | NR               | 930       | 0                           | NR               |
| 415       | 26                          | NR               | 545       | 542                         | NR               | 675       | 343                         | NR               | 805       | 7                           | NR               | 935       | 0                           | NR               |
| 420       | 51                          | NR               | 550       | 565                         | NR               | 680       | 299                         | NR               | 810       | 6                           | NR               | 940       | 0                           | NR               |
| 425       | 93                          | NR               | 555       | 593                         | NR               | 685       | 260                         | NR               | 815       | 5                           | NR               | 945       | 0                           | NR               |
| 430       | 156                         | NR               | 560       | 624                         | NR               | 690       | 225                         | NR               | 820       | 4                           | NR               | 950       | 0                           | NR               |
| 435       | 250                         | NR               | 565       | 662                         | NR               | 695       | 194                         | NR               | 825       | 4                           | NR               | 955       | 0                           | NR               |
| 440       | 391                         | NR               | 570       | 707                         | NR               | 700       | 166                         | NR               | 830       | 3                           | NR               | 960       | 0                           | NR               |
| 445       | 460                         | NR               | 575       | 756                         | NR               | 705       | 143                         | NR               | 835       | 3                           | NR               | 965       | 0                           | NR               |
| 450       | 293                         | NR               | 580       | 810                         | NR               | 710       | 122                         | NR               | 840       | 2                           | NR               | 970       | 0                           | NR               |
| 455       | 188                         | NR               | 585       | 860                         | NR               | 715       | 105                         | NR               | 845       | 2                           | NR               | 975       | 0                           | NR               |
| 460       | 149                         | NR               | 590       | 910                         | NR               | 720       | 90                          | NR               | 850       | 2                           | NR               | 980       | 0                           | NR               |
| 465       | 103                         | NR               | 595       | 950                         | NR               | 725       | 77                          | NR               | 855       | 2                           | NR               | 985       | 0                           | NR               |
| 470       | 80                          | NR               | 600       | 980                         | NR               | 730       | 66                          | NR               | 860       | 1                           | NR               | 990       | 0                           | NR               |
| 475       | 82                          | NR               | 605       | 995                         | NR               | 735       | 56                          | NR               | 865       | 1                           | NR               | 995       | 0                           | NR               |
| 480       | 92                          | NR               | 610       | 998                         | NR               | 740       | 48                          | NR               | 870       | 1                           | NR               | 1000      | 0                           | NR               |
| 485       | 116                         | NR               | 615       | 985                         | NR               | 745       | 41                          | NR               | 875       | 1                           | NR               |           |                             |                  |

REPORT NUMBER: SP1-2407-184-8

### Melanopic Flux vs. Wavelength


**Melanopic Lumens: NR**
**M/P: 2.16**

| $\lambda$<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               | 158                                    | NR                             | 620               | 959                                    | NR                             | 750               | 35                                     | NR                             | 880               | 1                                      | NR                             |
| 365               | 0                                      | NR                             | 495               | 211                                    | NR                             | 625               | 918                                    | NR                             | 755               | 30                                     | NR                             | 885               | 1                                      | NR                             |
| 370               | 0                                      | NR                             | 500               | 264                                    | NR                             | 630               | 873                                    | NR                             | 760               | 26                                     | NR                             | 890               | 1                                      | NR                             |
| 375               | 0                                      | NR                             | 505               | 318                                    | NR                             | 635               | 816                                    | NR                             | 765               | 22                                     | NR                             | 895               | 1                                      | NR                             |
| 380               | 0                                      | NR                             | 510               | 363                                    | NR                             | 640               | 755                                    | NR                             | 770               | 19                                     | NR                             | 900               | 1                                      | NR                             |
| 385               | 0                                      | NR                             | 515               | 403                                    | NR                             | 645               | 689                                    | NR                             | 775               | 16                                     | NR                             | 905               | 1                                      | NR                             |
| 390               | 0                                      | NR                             | 520               | 435                                    | NR                             | 650               | 626                                    | NR                             | 780               | 14                                     | NR                             | 910               | 0                                      | NR                             |
| 395               | 1                                      | NR                             | 525               | 459                                    | NR                             | 655               | 564                                    | NR                             | 785               | 12                                     | NR                             | 915               | 0                                      | NR                             |
| 400               | 3                                      | NR                             | 530               | 481                                    | NR                             | 660               | 503                                    | NR                             | 790               | 10                                     | NR                             | 920               | 0                                      | NR                             |
| 405               | 6                                      | NR                             | 535               | 501                                    | NR                             | 665               | 447                                    | NR                             | 795               | 9                                      | NR                             | 925               | 0                                      | NR                             |
| 410               | 13                                     | NR                             | 540               | 519                                    | NR                             | 670               | 392                                    | NR                             | 800               | 8                                      | NR                             | 930               | 0                                      | NR                             |
| 415               | 26                                     | NR                             | 545               | 542                                    | NR                             | 675               | 343                                    | NR                             | 805               | 7                                      | NR                             | 935               | 0                                      | NR                             |
| 420               | 51                                     | NR                             | 550               | 565                                    | NR                             | 680               | 299                                    | NR                             | 810               | 6                                      | NR                             | 940               | 0                                      | NR                             |
| 425               | 93                                     | NR                             | 555               | 593                                    | NR                             | 685               | 260                                    | NR                             | 815               | 5                                      | NR                             | 945               | 0                                      | NR                             |
| 430               | 156                                    | NR                             | 560               | 624                                    | NR                             | 690               | 225                                    | NR                             | 820               | 4                                      | NR                             | 950               | 0                                      | NR                             |
| 435               | 250                                    | NR                             | 565               | 662                                    | NR                             | 695               | 194                                    | NR                             | 825               | 4                                      | NR                             | 955               | 0                                      | NR                             |
| 440               | 391                                    | NR                             | 570               | 707                                    | NR                             | 700               | 166                                    | NR                             | 830               | 3                                      | NR                             | 960               | 0                                      | NR                             |
| 445               | 460                                    | NR                             | 575               | 756                                    | NR                             | 705               | 143                                    | NR                             | 835               | 3                                      | NR                             | 965               | 0                                      | NR                             |
| 450               | 293                                    | NR                             | 580               | 810                                    | NR                             | 710               | 122                                    | NR                             | 840               | 2                                      | NR                             | 970               | 0                                      | NR                             |
| 455               | 188                                    | NR                             | 585               | 860                                    | NR                             | 715               | 105                                    | NR                             | 845               | 2                                      | NR                             | 975               | 0                                      | NR                             |
| 460               | 149                                    | NR                             | 590               | 910                                    | NR                             | 720               | 90                                     | NR                             | 850               | 2                                      | NR                             | 980               | 0                                      | NR                             |
| 465               | 103                                    | NR                             | 595               | 950                                    | NR                             | 725               | 77                                     | NR                             | 855               | 2                                      | NR                             | 985               | 0                                      | NR                             |
| 470               | 80                                     | NR                             | 600               | 980                                    | NR                             | 730               | 66                                     | NR                             | 860               | 1                                      | NR                             | 990               | 0                                      | NR                             |
| 475               | 82                                     | NR                             | 605               | 995                                    | NR                             | 735               | 56                                     | NR                             | 865               | 1                                      | NR                             | 995               | 0                                      | NR                             |
| 480               | 92                                     | NR                             | 610               | 998                                    | NR                             | 740               | 48                                     | NR                             | 870               | 1                                      | NR                             | 1000              | 0                                      | NR                             |
| 485               | 116                                    | NR                             | 615               | 985                                    | NR                             | 745               | 41                                     | NR                             | 875               | 1                                      | NR                             |                   |                                        |                                |

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TM-30-18

### Summary

$R_f = 82.2$   
 $R_g = 99.9$   
 $CIE R_a = 82.9$   
 $R_9 = 10.8$

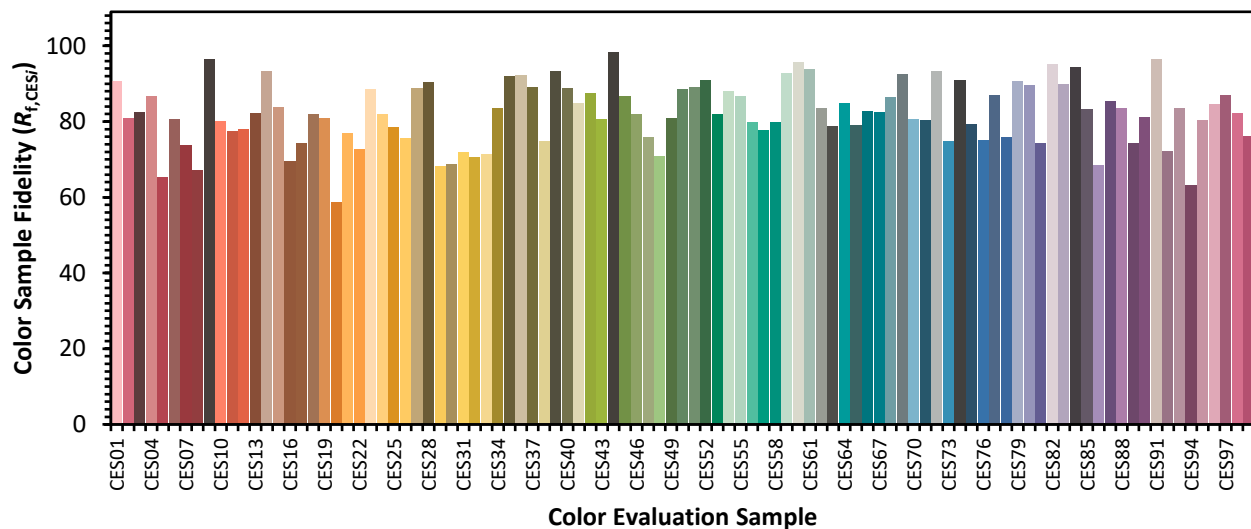


### Color Vector Graphics



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

|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 76 | CES51 = 89 | CES76 = 75 |
| CES02 = 63 | CES27 = 89 | CES52 = 91 | CES77 = 87 |
| CES03 = 31 | CES28 = 90 | CES53 = 82 | CES78 = 76 |
| CES04 = 71 | CES29 = 68 | CES54 = 88 | CES79 = 91 |
| CES05 = 50 | CES30 = 69 | CES55 = 87 | CES80 = 90 |
| CES06 = 52 | CES31 = 72 | CES56 = 80 | CES81 = 74 |
| CES07 = 43 | CES32 = 71 | CES57 = 78 | CES82 = 95 |
| CES08 = 42 | CES33 = 71 | CES58 = 80 | CES83 = 90 |
| CES09 = 29 | CES34 = 84 | CES59 = 93 | CES84 = 94 |
| CES10 = 77 | CES35 = 92 | CES60 = 96 | CES85 = 83 |
| CES11 = 59 | CES36 = 92 | CES61 = 94 | CES86 = 69 |
| CES12 = 66 | CES37 = 89 | CES62 = 84 | CES87 = 85 |
| CES13 = 44 | CES38 = 75 | CES63 = 79 | CES88 = 84 |
| CES14 = 74 | CES39 = 93 | CES64 = 85 | CES89 = 74 |
| CES15 = 72 | CES40 = 89 | CES65 = 79 | CES90 = 81 |
| CES16 = 48 | CES41 = 85 | CES66 = 83 | CES91 = 96 |
| CES17 = 50 | CES42 = 88 | CES67 = 82 | CES92 = 72 |
| CES18 = 57 | CES43 = 81 | CES68 = 86 | CES93 = 84 |
| CES19 = 73 | CES44 = 98 | CES69 = 92 | CES94 = 63 |
| CES20 = 67 | CES45 = 87 | CES70 = 81 | CES95 = 80 |
| CES21 = 87 | CES46 = 82 | CES71 = 81 | CES96 = 85 |
| CES22 = 79 | CES47 = 76 | CES72 = 93 | CES97 = 87 |
| CES23 = 92 | CES48 = 71 | CES73 = 75 | CES98 = 82 |
| CES24 = 91 | CES49 = 81 | CES74 = 91 | CES99 = 76 |
| CES25 = 72 | CES50 = 88 | CES75 = 79 |            |



### Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)