

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: LUMARK

Report Number: P1067961

Luminaire Tested: **NAV-SA6A-730-U-LBC**

Issue Date: 08/07/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1067961  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 08/07/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SA6A-730-U-LBC  
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 6xLight Square PACKAGE  
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (84) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16815.2 lumens  
Efficiency: N/A  
Efficacy: 104.1 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): 161.6  
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



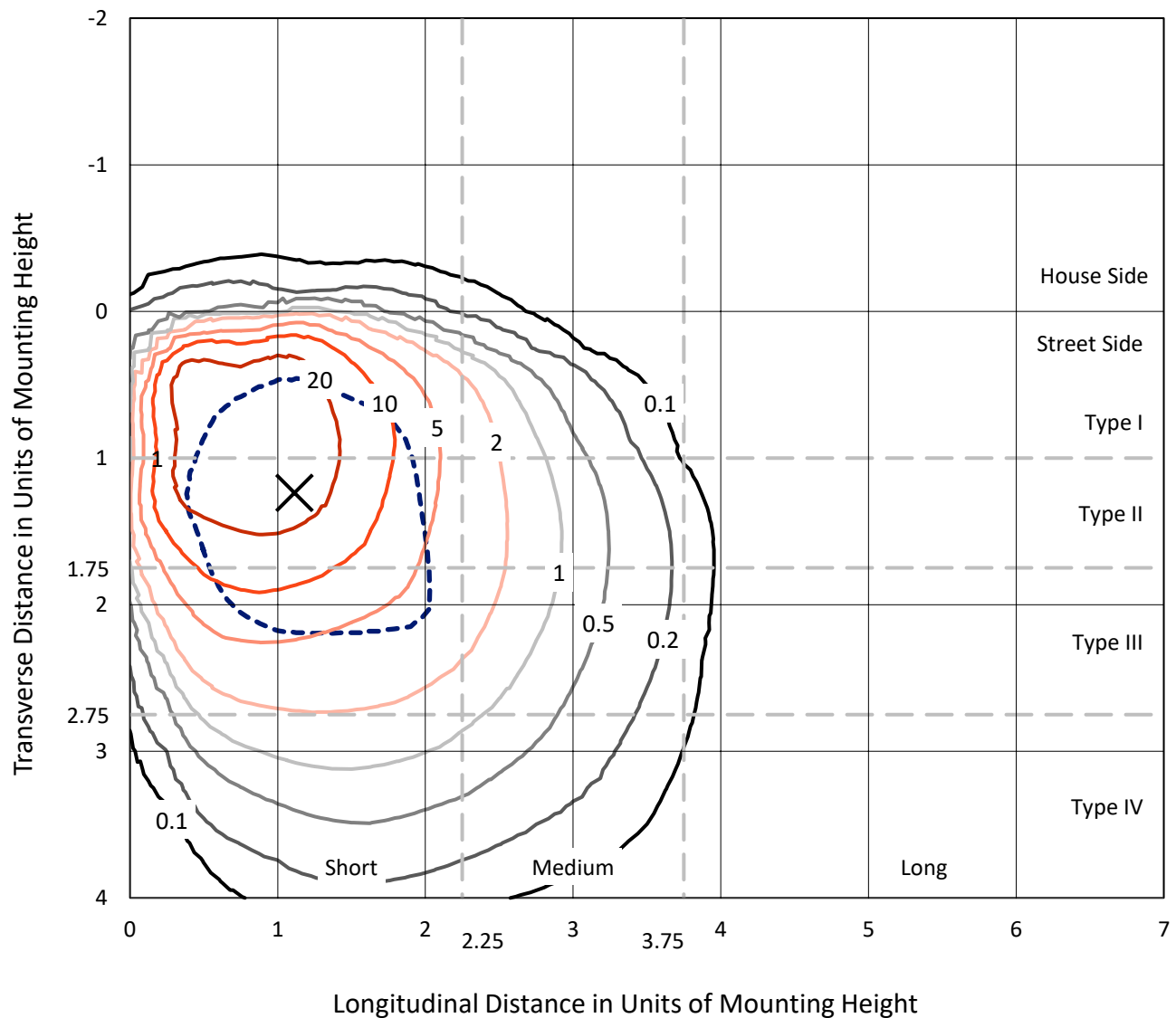
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

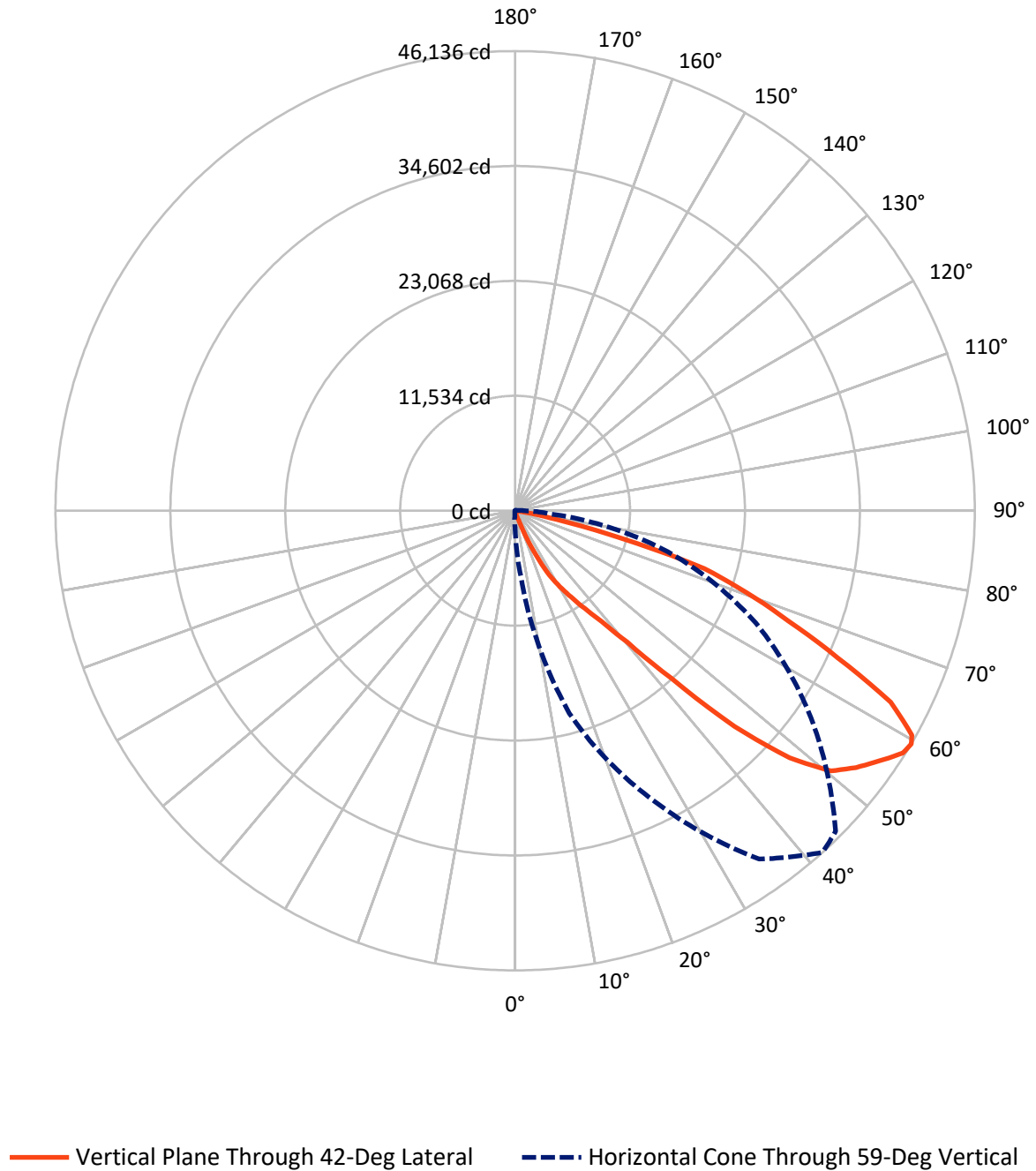


Based on 15 foot mounting height. Maximum calculated value = 49.9 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 81.0     | 0.0    | 81.0    |
|                    | % Fixture | 0.5      | 0.0    | 0.5     |
| <b>Street Side</b> | Lumens    | 16734.2  | 0.0    | 16734.2 |
|                    | % Fixture | 99.5     | 0.0    | 99.5    |
| <b>Total</b>       | Lumens    | 16815.2  | 0.0    | 16815.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 4.9     | 0.0       |
| 10°-20°   | 24.5    | 0.1       |
| 20°-30°   | 313.6   | 1.9       |
| 30°-40°   | 1057.5  | 6.3       |
| 40°-50°   | 3194.0  | 19.0      |
| 50°-60°   | 5638.2  | 33.5      |
| 60°-70°   | 4964.5  | 29.5      |
| 70°-80°   | 1580.2  | 9.4       |
| 80°-90°   | 37.8    | 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°    | 16815.2 | 100.0     |
| 0°-180°   | 16815.2 | 100.0     |



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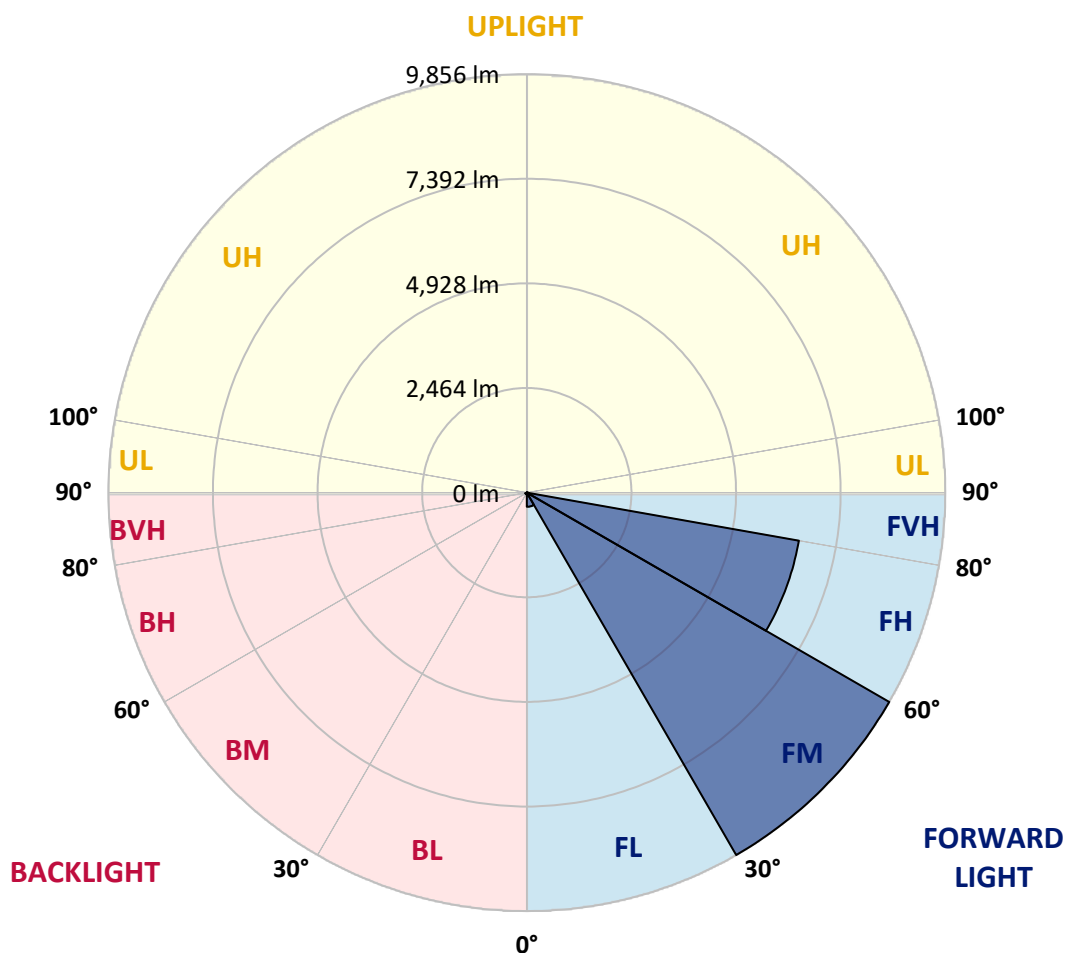
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 334.1  | 2.0       |                         |      |         |
| FM   | (30°-60°)   | 9856.5 | 58.6      |                         |      |         |
| FH   | (60°-80°)   | 6507.6 | 38.7      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 36.0   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 9.0    | 0.1       | B0/110                  |      |         |
| BM   | (30°-60°)   | 33.1   | 0.2       | B0/220                  |      |         |
| BH   | (60°-80°)   | 37.1   | 0.2       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 1.8    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°     | 25°     | 35°     | 42°     | 45°     | 55°     | 65°     | 75°     | 85°    |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 47.4   | 47.4   | 47.4    | 47.4    | 47.4    | 47.4    | 47.4    | 47.4    | 47.4    | 47.4    | 47.4   |
| 2.5°  | 73.8   | 73.8   | 68.5    | 63.3    | 58.0    | 52.7    | 52.7    | 52.7    | 47.4    | 47.4    | 42.2   |
| 5°    | 84.4   | 84.4   | 79.1    | 73.8    | 73.8    | 68.5    | 68.5    | 63.3    | 58.0    | 58.0    | 52.7   |
| 7.5°  | 89.6   | 89.6   | 89.6    | 89.6    | 84.4    | 84.4    | 84.4    | 79.1    | 73.8    | 68.5    | 63.3   |
| 10°   | 94.9   | 100.2  | 105.4   | 105.4   | 105.4   | 105.4   | 105.4   | 100.2   | 89.6    | 84.4    | 73.8   |
| 12.5° | 105.4  | 110.7  | 121.3   | 131.8   | 131.8   | 131.8   | 131.8   | 126.5   | 116.0   | 100.2   | 84.4   |
| 15°   | 116.0  | 126.5  | 142.3   | 163.4   | 184.5   | 189.8   | 189.8   | 174.0   | 152.9   | 121.3   | 100.2  |
| 17.5° | 131.8  | 147.6  | 189.8   | 258.3   | 332.1   | 390.1   | 390.1   | 348.0   | 242.5   | 158.2   | 116.0  |
| 20°   | 142.3  | 174.0  | 305.8   | 622.1   | 949.0   | 1191.5  | 1144.1  | 1012.2  | 543.0   | 247.8   | 126.5  |
| 22.5° | 158.2  | 221.4  | 648.5   | 1634.4  | 2530.6  | 2973.5  | 2868.0  | 2177.4  | 1217.9  | 442.9   | 152.9  |
| 25°   | 179.3  | 321.6  | 1286.4  | 3063.1  | 4702.7  | 5182.5  | 5114.0  | 4064.8  | 2219.6  | 743.4   | 195.1  |
| 27.5° | 221.4  | 474.5  | 2061.4  | 4644.7  | 6938.1  | 7349.3  | 7323.0  | 5952.2  | 3548.1  | 1196.8  | 253.1  |
| 30°   | 279.4  | 690.6  | 3057.8  | 6310.7  | 8419.6  | 8836.1  | 8704.3  | 7333.5  | 4787.1  | 1829.4  | 326.9  |
| 32.5° | 348.0  | 964.8  | 3959.4  | 7539.1  | 9785.1  | 10333.4 | 10175.2 | 8535.6  | 5783.5  | 2367.2  | 485.0  |
| 35°   | 453.4  | 1233.7 | 4850.4  | 8625.2  | 11361.4 | 12057.4 | 11793.7 | 9774.5  | 6642.9  | 2973.5  | 585.2  |
| 37.5° | 506.1  | 1391.8 | 5667.5  | 9806.2  | 13132.9 | 14081.8 | 13881.5 | 11340.3 | 7518.1  | 3748.5  | 717.0  |
| 40°   | 511.4  | 1581.6 | 6516.3  | 11345.6 | 15637.1 | 17329.5 | 16971.0 | 14029.1 | 9147.1  | 4744.9  | 922.6  |
| 42.5° | 527.2  | 1866.3 | 7618.2  | 13971.1 | 20556.0 | 22986.5 | 22580.5 | 18974.4 | 12842.9 | 6743.0  | 1307.5 |
| 45°   | 601.0  | 2404.1 | 9864.1  | 18879.5 | 27309.6 | 30873.6 | 30404.3 | 25865.0 | 18004.3 | 10502.1 | 2230.1 |
| 47.5° | 859.4  | 3616.7 | 13802.4 | 24178.0 | 34216.1 | 37057.8 | 36941.8 | 31295.3 | 22680.7 | 14356.0 | 3780.1 |
| 50°   | 1381.3 | 5551.5 | 18283.7 | 28632.9 | 38613.0 | 41054.0 | 40764.1 | 33562.3 | 25348.4 | 16986.8 | 4845.1 |
| 52.5° | 1845.2 | 7402.1 | 21099.0 | 30272.5 | 39925.8 | 42836.0 | 42482.8 | 34390.1 | 26049.6 | 17761.8 | 5140.3 |
| 55°   | 1961.2 | 8071.6 | 21937.3 | 30778.7 | 40795.7 | 44343.8 | 43832.4 | 34943.6 | 26139.2 | 17208.2 | 4650.0 |
| 57.5° | 1903.2 | 7439.0 | 21394.3 | 31274.2 | 42008.3 | 45893.9 | 45213.7 | 36024.4 | 26439.7 | 16269.8 | 3869.7 |
| 59°   | 1803.1 | 6658.7 | 21056.9 | 31669.7 | 42677.9 | 46136.4 | 45498.4 | 36261.7 | 26640.0 | 15842.7 | 3395.2 |
| 60°   | 1687.1 | 6131.5 | 20793.3 | 31928.0 | 42635.7 | 45756.8 | 45097.8 | 36151.0 | 26719.1 | 15473.7 | 3168.5 |
| 62.5° | 1302.2 | 4892.5 | 20413.7 | 31743.5 | 39973.3 | 42293.0 | 41918.7 | 33441.1 | 25559.3 | 14292.7 | 2499.0 |
| 65°   | 1012.2 | 3743.2 | 19021.8 | 28311.3 | 34015.8 | 35576.3 | 35460.3 | 28316.6 | 21510.3 | 12321.0 | 1803.1 |
| 67.5° | 801.4  | 2731.0 | 16085.3 | 22928.5 | 27367.6 | 29587.2 | 29502.8 | 22986.5 | 16327.8 | 9416.0  | 1296.9 |
| 70°   | 653.7  | 1945.4 | 11029.3 | 17287.3 | 21889.9 | 24684.1 | 24562.8 | 18499.9 | 12099.5 | 5973.3  | 943.7  |
| 72.5° | 553.6  | 1244.2 | 6690.3  | 13032.7 | 18267.9 | 19865.4 | 19512.1 | 14925.4 | 8799.2  | 3252.9  | 748.6  |
| 75°   | 469.2  | 764.5  | 3316.2  | 8124.3  | 10881.7 | 10871.1 | 10517.9 | 7902.9  | 4723.8  | 1592.2  | 595.8  |
| 77.5° | 379.6  | 537.8  | 1302.2  | 2230.1  | 3432.2  | 4249.3  | 4180.8  | 2799.5  | 1412.9  | 463.9   | 369.0  |
| 80°   | 247.8  | 253.1  | 348.0   | 611.6   | 943.7   | 1043.9  | 1186.2  | 854.1   | 411.2   | 221.4   | 152.9  |
| 82.5° | 110.7  | 121.3  | 158.2   | 200.3   | 200.3   | 184.5   | 163.4   | 121.3   | 89.6    | 73.8    | 36.9   |
| 85°   | 26.4   | 36.9   | 26.4    | 31.6    | 26.4    | 21.1    | 21.1    | 10.5    | 0.0     | 0.0     | 0.0    |
| 87.5° | 5.3    | 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°    | 47.4   | 47.4  | 47.4  | 47.4  | 47.4 | 47.4 | 47.4 | 47.4 | 47.4 | 47.4 | 47.4 |
| 2.5°  | 42.2   | 42.2  | 42.2  | 36.9  | 36.9 | 36.9 | 31.6 | 31.6 | 31.6 | 26.4 | 26.4 |
| 5°    | 52.7   | 47.4  | 42.2  | 42.2  | 36.9 | 36.9 | 31.6 | 26.4 | 26.4 | 26.4 | 21.1 |
| 7.5°  | 58.0   | 52.7  | 47.4  | 42.2  | 36.9 | 31.6 | 31.6 | 26.4 | 21.1 | 21.1 | 21.1 |
| 10°   | 68.5   | 63.3  | 52.7  | 42.2  | 36.9 | 31.6 | 26.4 | 26.4 | 21.1 | 15.8 | 15.8 |
| 12.5° | 79.1   | 68.5  | 58.0  | 47.4  | 36.9 | 31.6 | 26.4 | 26.4 | 21.1 | 15.8 | 10.5 |
| 15°   | 89.6   | 79.1  | 63.3  | 47.4  | 36.9 | 31.6 | 26.4 | 26.4 | 15.8 | 10.5 | 5.3  |
| 17.5° | 100.2  | 84.4  | 63.3  | 52.7  | 36.9 | 31.6 | 26.4 | 21.1 | 10.5 | 5.3  | 0.0  |
| 20°   | 105.4  | 89.6  | 68.5  | 52.7  | 36.9 | 31.6 | 26.4 | 15.8 | 5.3  | 0.0  | 0.0  |
| 22.5° | 116.0  | 100.2 | 73.8  | 52.7  | 36.9 | 26.4 | 15.8 | 5.3  | 0.0  | 0.0  | 0.0  |
| 25°   | 137.1  | 105.4 | 73.8  | 52.7  | 36.9 | 26.4 | 10.5 | 0.0  | 0.0  | 0.0  | 0.0  |
| 27.5° | 152.9  | 116.0 | 73.8  | 52.7  | 36.9 | 21.1 | 5.3  | 0.0  | 0.0  | 0.0  | 0.0  |
| 30°   | 179.3  | 126.5 | 79.1  | 52.7  | 36.9 | 15.8 | 5.3  | 0.0  | 0.0  | 0.0  | 0.0  |
| 32.5° | 221.4  | 137.1 | 79.1  | 52.7  | 31.6 | 15.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 35°   | 268.9  | 158.2 | 79.1  | 52.7  | 31.6 | 15.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 37.5° | 274.2  | 168.7 | 79.1  | 52.7  | 31.6 | 10.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 40°   | 284.7  | 158.2 | 84.4  | 52.7  | 31.6 | 10.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 42.5° | 326.9  | 147.6 | 89.6  | 52.7  | 31.6 | 10.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 45°   | 485.0  | 152.9 | 89.6  | 58.0  | 31.6 | 15.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 47.5° | 843.5  | 158.2 | 84.4  | 58.0  | 31.6 | 15.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 50°   | 1080.8 | 184.5 | 84.4  | 63.3  | 36.9 | 10.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 52.5° | 1149.3 | 216.2 | 84.4  | 68.5  | 47.4 | 5.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 55°   | 1117.7 | 253.1 | 89.6  | 73.8  | 58.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 57.5° | 1033.3 | 274.2 | 94.9  | 79.1  | 63.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 59°   | 943.7  | 290.0 | 110.7 | 84.4  | 63.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 60°   | 869.9  | 305.8 | 116.0 | 89.6  | 63.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 62.5° | 701.2  | 326.9 | 126.5 | 105.4 | 52.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 65°   | 611.6  | 342.7 | 131.8 | 116.0 | 47.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 67.5° | 558.8  | 353.2 | 142.3 | 121.3 | 42.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 70°   | 516.7  | 348.0 | 152.9 | 116.0 | 36.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 72.5° | 469.2  | 332.1 | 184.5 | 105.4 | 31.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 75°   | 421.8  | 300.5 | 200.3 | 94.9  | 21.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 77.5° | 305.8  | 253.1 | 184.5 | 84.4  | 10.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 80°   | 131.8  | 137.1 | 131.8 | 63.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 82.5° | 26.4   | 31.6  | 26.4  | 15.8  | 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°    | 47.4 | 47.4 | 47.4 | 47.4 | 47.4 | 47.4 | 47.4 | 47.4 | 47.4 | 47.4 | 47.4 |
| 2.5°  | 26.4 | 26.4 | 26.4 | 26.4 | 31.6 | 31.6 | 42.2 | 52.7 | 63.3 | 68.5 | 68.5 |
| 5°    | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 26.4 | 31.6 | 42.2 | 58.0 | 63.3 | 63.3 |
| 7.5°  | 15.8 | 15.8 | 15.8 | 15.8 | 15.8 | 15.8 | 26.4 | 36.9 | 52.7 | 58.0 | 63.3 |
| 10°   | 15.8 | 10.5 | 10.5 | 5.3  | 5.3  | 10.5 | 15.8 | 31.6 | 47.4 | 52.7 | 58.0 |
| 12.5° | 10.5 | 5.3  | 5.3  | 0.0  | 0.0  | 5.3  | 10.5 | 26.4 | 42.2 | 47.4 | 52.7 |
| 15°   | 5.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.3  | 21.1 | 36.9 | 42.2 | 52.7 |
| 17.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 15.8 | 31.6 | 42.2 | 47.4 |
| 20°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 10.5 | 26.4 | 36.9 | 42.2 |
| 22.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.3  | 21.1 | 31.6 | 36.9 |
| 25°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 15.8 | 21.1 | 26.4 |
| 27.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 10.5 | 15.8 | 21.1 |
| 30°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 10.5 | 15.8 | 21.1 |
| 32.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.3  | 10.5 | 15.8 |
| 35°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.3  | 10.5 | 15.8 |
| 37.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.3  | 10.5 | 10.5 |
| 40°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.3  | 10.5 |
| 42.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.3  | 10.5 |
| 45°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.3  | 10.5 |
| 47.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.3  | 10.5 |
| 50°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.3  | 10.5 |
| 52.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.3  | 5.3  |
| 55°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.3  | 5.3  |
| 57.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.3  |
| 59°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.3  |
| 60°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.3  |
| 62.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.3  |
| 65°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.3  |
| 67.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.3  |
| 70°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.3  |
| 72.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.3  |
| 75°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.3  | 5.3  |
| 77.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.3  | 10.5 |
| 80°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.3  | 10.5 |
| 82.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.3  | 5.3  |
| 85°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.3  | 5.3  |
| 87.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.3  | 5.3  |
| 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: P1067961

CATALOG NUMBER: NAV-SA6A-730-U-LBC

**CANDELA DISTRIBUTION (continued):**

|       | 285° | 295° | 305° | 315° | 318° | 325° | 335°  | 345°  | 355°  | 360°   |
|-------|------|------|------|------|------|------|-------|-------|-------|--------|
| 0°    | 47.4 | 47.4 | 47.4 | 47.4 | 47.4 | 47.4 | 47.4  | 47.4  | 47.4  | 47.4   |
| 2.5°  | 73.8 | 73.8 | 68.5 | 63.3 | 63.3 | 63.3 | 68.5  | 73.8  | 73.8  | 73.8   |
| 5°    | 68.5 | 68.5 | 63.3 | 63.3 | 63.3 | 63.3 | 68.5  | 79.1  | 84.4  | 84.4   |
| 7.5°  | 68.5 | 68.5 | 63.3 | 63.3 | 63.3 | 63.3 | 68.5  | 79.1  | 84.4  | 89.6   |
| 10°   | 63.3 | 63.3 | 63.3 | 63.3 | 58.0 | 63.3 | 68.5  | 79.1  | 94.9  | 94.9   |
| 12.5° | 63.3 | 63.3 | 63.3 | 63.3 | 58.0 | 63.3 | 73.8  | 84.4  | 100.2 | 105.4  |
| 15°   | 63.3 | 63.3 | 63.3 | 58.0 | 58.0 | 63.3 | 73.8  | 89.6  | 105.4 | 116.0  |
| 17.5° | 58.0 | 63.3 | 63.3 | 58.0 | 58.0 | 63.3 | 73.8  | 89.6  | 116.0 | 131.8  |
| 20°   | 52.7 | 58.0 | 63.3 | 58.0 | 58.0 | 58.0 | 73.8  | 89.6  | 121.3 | 142.3  |
| 22.5° | 47.4 | 52.7 | 58.0 | 58.0 | 52.7 | 58.0 | 73.8  | 94.9  | 131.8 | 158.2  |
| 25°   | 42.2 | 47.4 | 47.4 | 52.7 | 52.7 | 58.0 | 73.8  | 94.9  | 137.1 | 179.3  |
| 27.5° | 31.6 | 36.9 | 42.2 | 47.4 | 47.4 | 58.0 | 73.8  | 100.2 | 147.6 | 221.4  |
| 30°   | 26.4 | 31.6 | 36.9 | 42.2 | 47.4 | 58.0 | 73.8  | 100.2 | 158.2 | 279.4  |
| 32.5° | 26.4 | 31.6 | 36.9 | 42.2 | 47.4 | 52.7 | 73.8  | 105.4 | 174.0 | 348.0  |
| 35°   | 21.1 | 26.4 | 31.6 | 42.2 | 42.2 | 52.7 | 73.8  | 105.4 | 189.8 | 453.4  |
| 37.5° | 21.1 | 26.4 | 31.6 | 42.2 | 42.2 | 52.7 | 73.8  | 105.4 | 232.0 | 506.1  |
| 40°   | 15.8 | 21.1 | 26.4 | 42.2 | 42.2 | 52.7 | 79.1  | 110.7 | 237.2 | 511.4  |
| 42.5° | 15.8 | 21.1 | 26.4 | 36.9 | 42.2 | 52.7 | 79.1  | 110.7 | 221.4 | 527.2  |
| 45°   | 15.8 | 21.1 | 26.4 | 42.2 | 47.4 | 58.0 | 79.1  | 116.0 | 216.2 | 601.0  |
| 47.5° | 15.8 | 21.1 | 26.4 | 42.2 | 52.7 | 58.0 | 79.1  | 116.0 | 221.4 | 859.4  |
| 50°   | 15.8 | 21.1 | 26.4 | 42.2 | 58.0 | 58.0 | 79.1  | 116.0 | 242.5 | 1381.3 |
| 52.5° | 10.5 | 15.8 | 21.1 | 36.9 | 47.4 | 63.3 | 84.4  | 110.7 | 258.3 | 1845.2 |
| 55°   | 10.5 | 10.5 | 15.8 | 31.6 | 42.2 | 68.5 | 89.6  | 110.7 | 300.5 | 1961.2 |
| 57.5° | 10.5 | 10.5 | 15.8 | 26.4 | 36.9 | 73.8 | 94.9  | 110.7 | 348.0 | 1903.2 |
| 59°   | 10.5 | 10.5 | 10.5 | 26.4 | 31.6 | 73.8 | 94.9  | 116.0 | 353.2 | 1803.1 |
| 60°   | 10.5 | 10.5 | 10.5 | 21.1 | 31.6 | 73.8 | 100.2 | 121.3 | 358.5 | 1687.1 |
| 62.5° | 5.3  | 5.3  | 5.3  | 21.1 | 26.4 | 73.8 | 110.7 | 147.6 | 369.0 | 1302.2 |
| 65°   | 10.5 | 10.5 | 5.3  | 15.8 | 26.4 | 63.3 | 126.5 | 158.2 | 374.3 | 1012.2 |
| 67.5° | 10.5 | 10.5 | 10.5 | 21.1 | 26.4 | 63.3 | 131.8 | 163.4 | 374.3 | 801.4  |
| 70°   | 10.5 | 10.5 | 10.5 | 21.1 | 31.6 | 63.3 | 131.8 | 168.7 | 369.0 | 653.7  |
| 72.5° | 10.5 | 10.5 | 10.5 | 21.1 | 31.6 | 58.0 | 121.3 | 174.0 | 353.2 | 553.6  |
| 75°   | 10.5 | 10.5 | 10.5 | 15.8 | 26.4 | 52.7 | 116.0 | 189.8 | 321.6 | 469.2  |
| 77.5° | 10.5 | 10.5 | 10.5 | 10.5 | 21.1 | 42.2 | 105.4 | 210.9 | 284.7 | 379.6  |
| 80°   | 15.8 | 10.5 | 10.5 | 10.5 | 15.8 | 36.9 | 100.2 | 205.6 | 237.2 | 247.8  |
| 82.5° | 15.8 | 10.5 | 10.5 | 5.3  | 10.5 | 26.4 | 79.1  | 158.2 | 121.3 | 110.7  |
| 85°   | 10.5 | 10.5 | 10.5 | 5.3  | 5.3  | 15.8 | 36.9  | 47.4  | 36.9  | 26.4   |
| 87.5° | 10.5 | 10.5 | 10.5 | 5.3  | 5.3  | 5.3  | 5.3   | 5.3   | 5.3   | 5.3    |
| 90°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0    |

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-4

Test Date: 10/10/2024

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

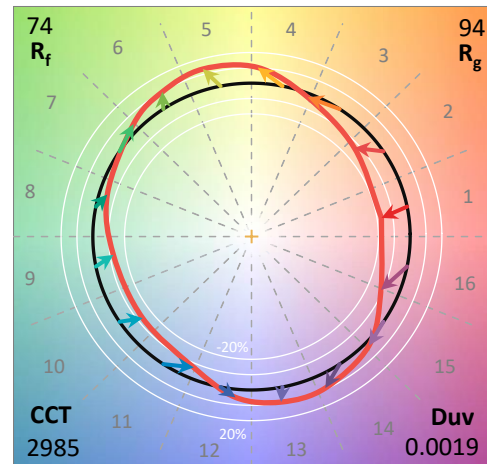
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2407-184-4  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry:  $4\pi$   
 Issue Date: 10/15/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: McGraw-Edison  
 Catalog Number: **GSS-SB1A-730-U-5WQ**  
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI  
 3000K CCT 26 LEDS

### Spectral Parameters

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



### Test Conditions

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

REPORT NUMBER: SP1-2407-184-4

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

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**CIE 1931 Chromaticity Diagram**



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



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

### Photopic Flux vs. Wavelength

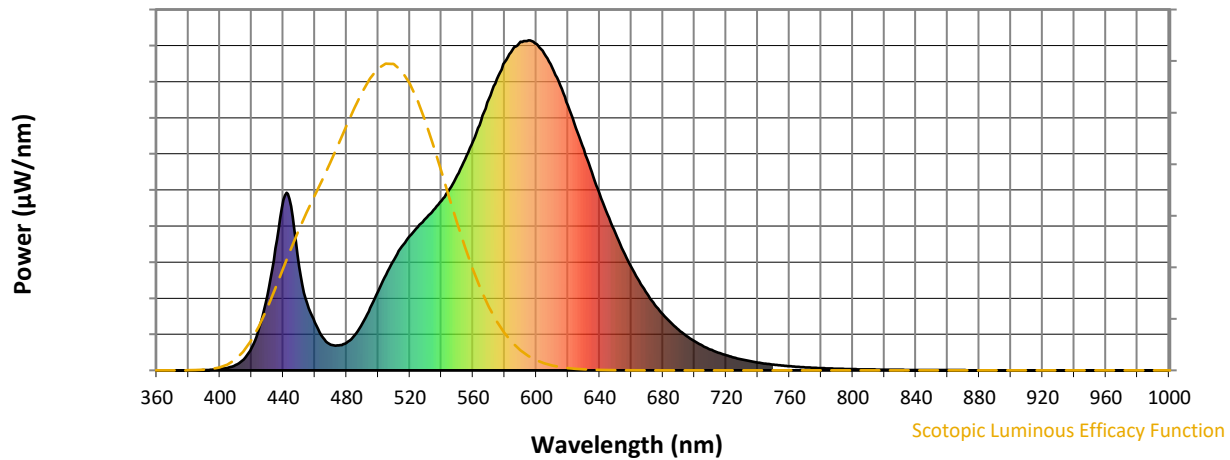


### Photopic Lumens: NR

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

REPORT NUMBER: SP1-2407-184-4

### Scotopic Flux vs. Wavelength



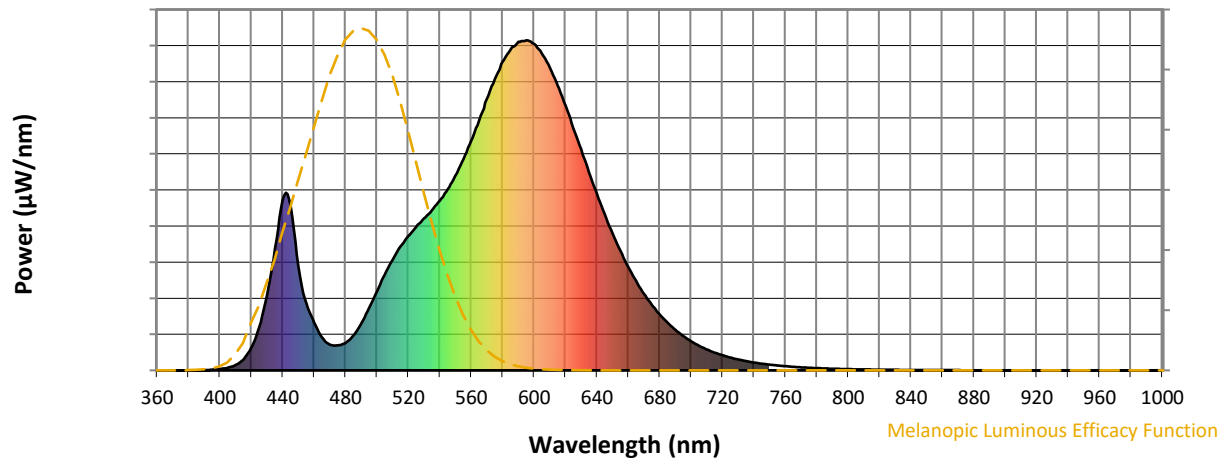
Scotopic Lumens: NR

S/P: 1.19

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

REPORT NUMBER: SP1-2407-184-4

### Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.13

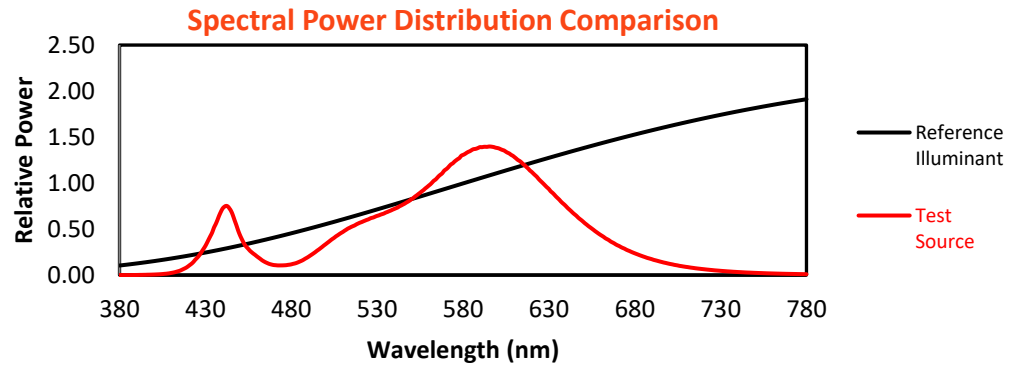
| $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power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

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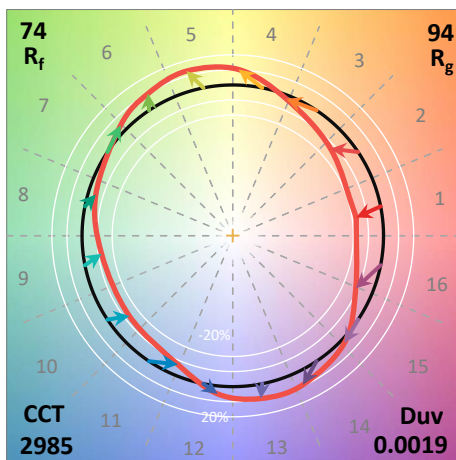
TM-30-18

### Summary

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

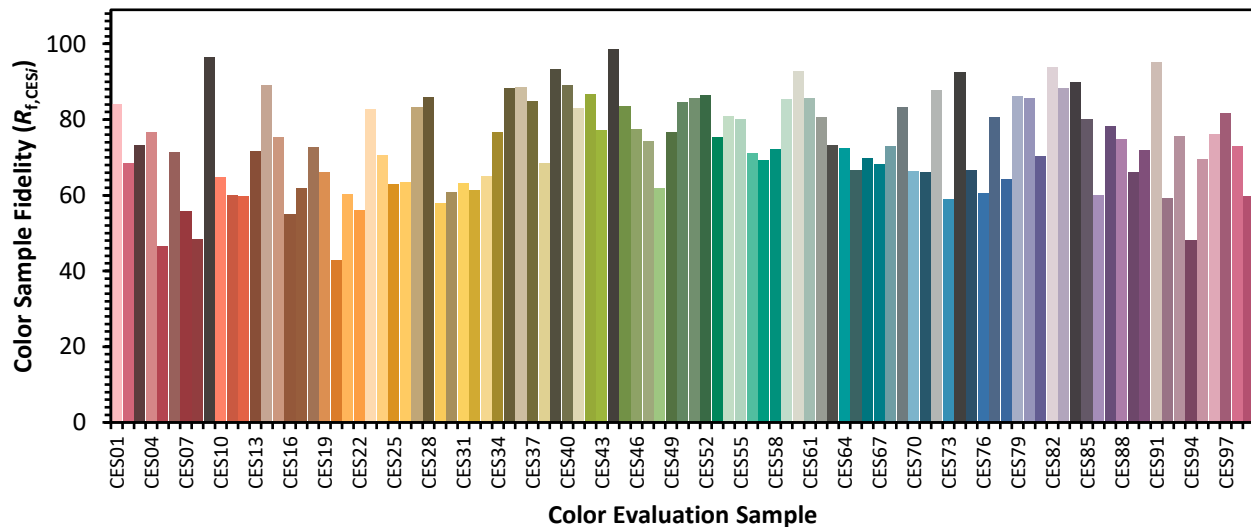


### Color Vector Graphics



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

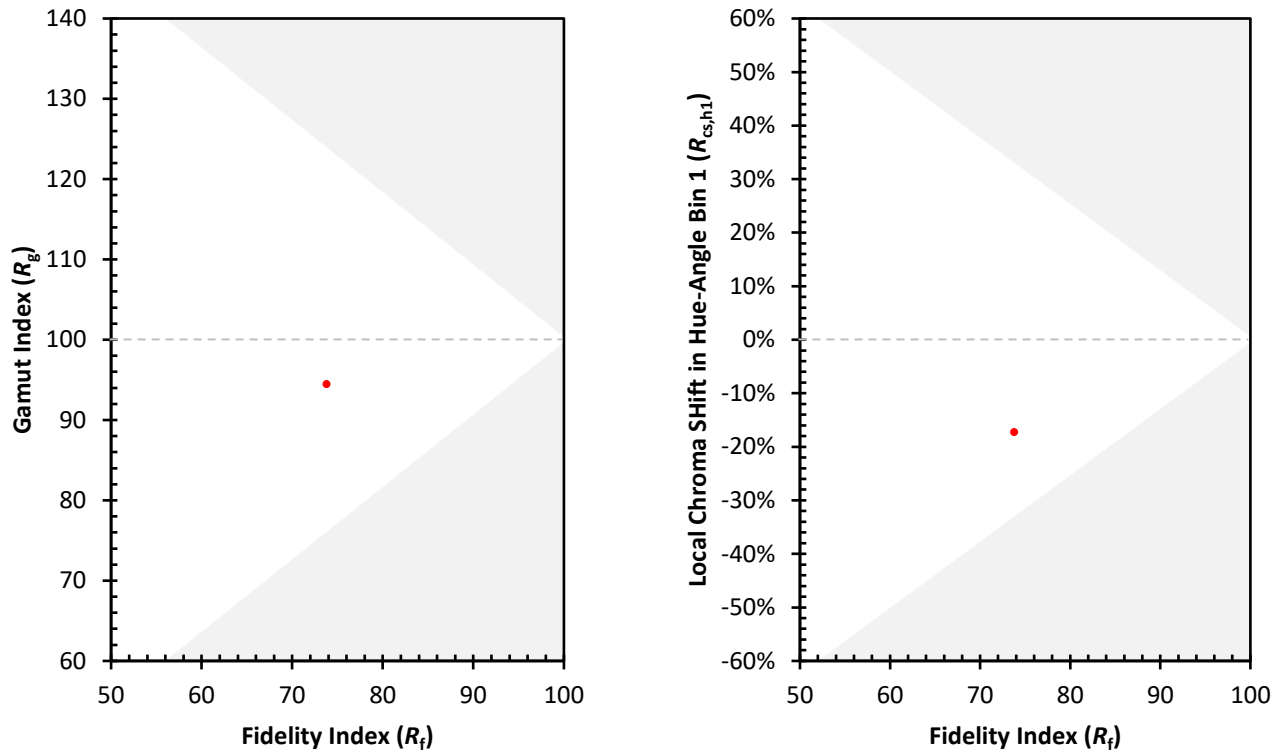
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 63 | CES51 = 86 | CES76 = 61 |
| CES02 = 62 | CES27 = 83 | CES52 = 86 | CES77 = 81 |
| CES03 = 31 | CES28 = 86 | CES53 = 75 | CES78 = 64 |
| CES04 = 71 | CES29 = 58 | CES54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



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)