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: McGRAW-EDISON

Report Number: P1047250

Luminaire Tested: **GALN-SA6B-760-U-T3BC**

Issue Date: 07/10/2025

Report Generated By 670347003

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P1047250 |
| Test Lab: | INNOVATION CENTER(G3) |
| Issue Date: | 07/10/2025 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GALN-SA6B-760-U-T3BC |
| Description: | GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 6xLight Square PACKAGE 70CRI 5700K FIXTURE w/ TYPE III ANGLED BACKLIGHT CONTROL |
| Light Source: | (84) 5700K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 28106.4 lumens |
| Efficiency: | N/A |
| Efficacy: | 131.5 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1' x H: 0') |
| IES Classification: | Type III - Short |
| BUG Rating: | B0 - U0 - G4 |

| | |
|---|---|
| Input Watts (W): | 213.8 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.97 |
| Total Harmonic Distortion (THDi): | NR |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

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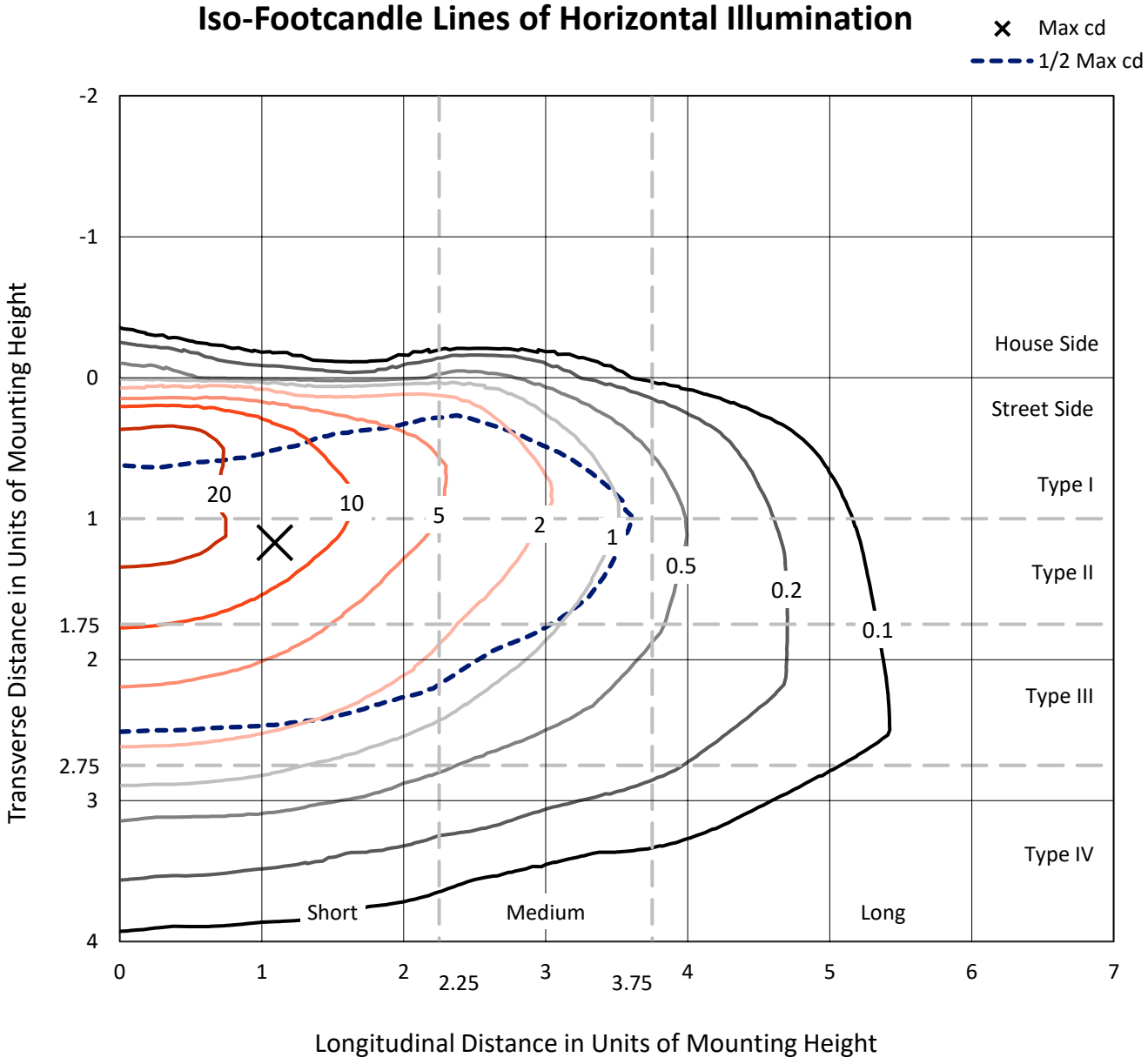
Scaled Data Report

REPORT NUMBER: P1047250
CATALOG NUMBER: GALN-SA6B-760-U-T3BC

## Iso-Footcandle Lines of Horizontal Illumination




Based on 15 foot mounting height. Maximum calculated value = 31.5 fc
Type III - Short - N/A

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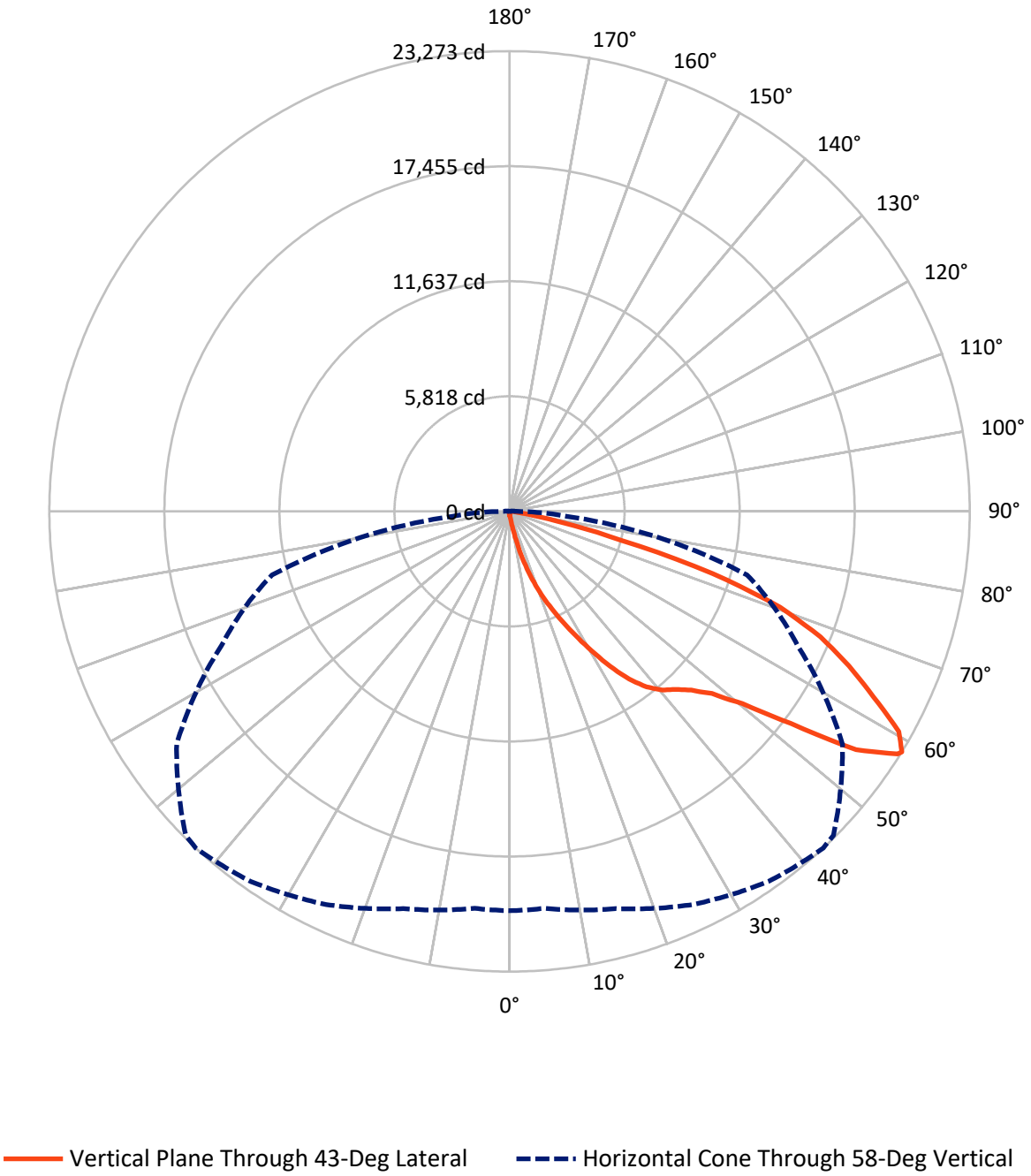
## Luminous Intensity Polar Plot



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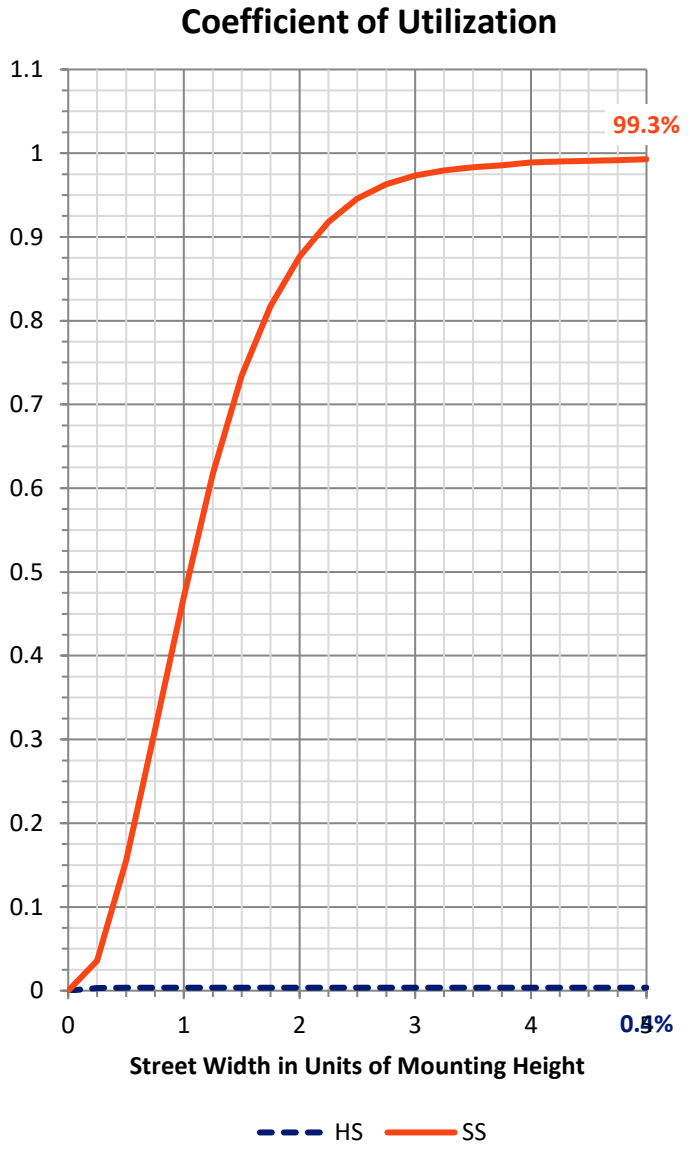
REPORT NUMBER: P1047250
CATALOG NUMBER: GALN-SA6B-760-U-T3BC

**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 102.6 | 0.0 | 102.6 |
| | % Fixture | 0.4 | 0.0 | 0.4 |
| **Street Side** | Lumens | 28003.8 | 0.0 | 28003.8 |
| | % Fixture | 99.6 | 0.0 | 99.6 |
| **Total** | Lumens | 28106.4 | 0.0 | 28106.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 26.9 | 0.1 |
| 10°-20° | 323.1 | 1.1 |
| 20°-30° | 1164.5 | 4.1 |
| 30°-40° | 2664.3 | 9.5 |
| 40°-50° | 4493.7 | 16.0 |
| 50°-60° | 7415.6 | 26.4 |
| 60°-70° | 8287.9 | 29.5 |
| 70°-80° | 3421.9 | 12.2 |
| 80°-90° | 308.5 | 1.1 |
| 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° | 28106.4 | 100.0 |
| 0°-180° | 28106.4 | 100.0 |



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REPORT NUMBER: P1047250
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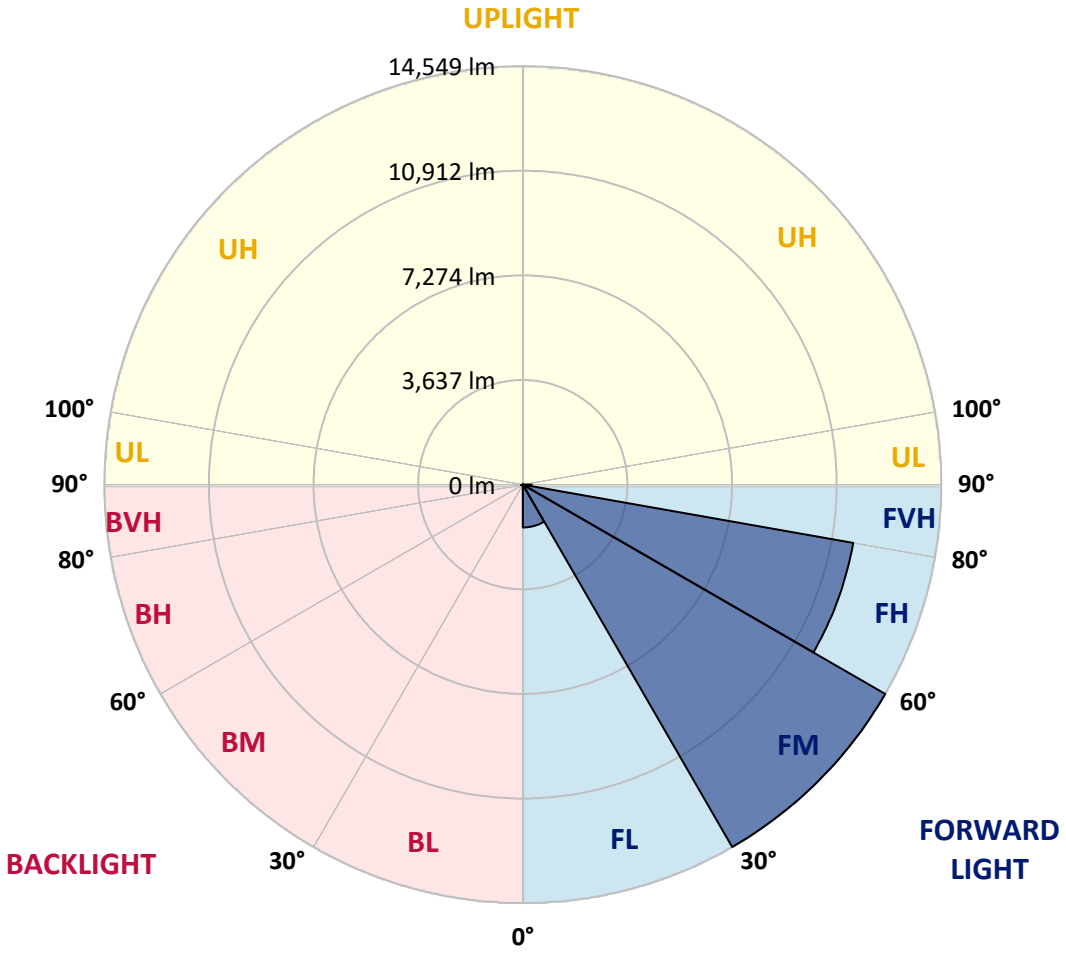
## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 1487.7 | 5.3 | | | |
| FM | (30°-60°) | 14549.0 | 51.8 | | | |
| FH | (60°-80°) | 11662.8 | 41.5 | | | G4/12000 |
| FVH | (80°-90°) | 304.3 | 1.1 | | | G3/500 |
| BL | (0°-30°) | 26.8 | 0.1 | B0/110 | | |
| BM | (30°-60°) | 24.6 | 0.1 | B0/220 | | |
| BH | (60°-80°) | 47.0 | 0.2 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 4.2 | 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-G4**
Type III Short



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REPORT NUMBER: P1047250
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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 43° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 183.8 | 183.8 | 183.8 | 183.8 | 183.8 | *183.8* | 183.8 | 183.8 | 183.8 | 183.8 | 183.8 |
| 2.5° | 220.5 | 227.9 | 220.5 | 220.5 | 220.5 | *213.2* | 213.2 | 205.8 | 205.8 | 198.5 | 191.1 |
| 5° | 323.4 | 323.4 | 301.4 | 286.7 | 272.0 | *264.6* | 257.3 | 242.6 | 227.9 | 213.2 | 198.5 |
| 7.5° | 720.4 | 720.4 | 654.2 | 566.0 | 448.4 | *382.3* | 367.5 | 301.4 | 257.3 | 227.9 | 198.5 |
| 10° | 1720.1 | 1720.1 | 1573.1 | 1330.5 | 1029.1 | *764.5* | 683.6 | 433.7 | 308.7 | 242.6 | 205.8 |
| 12.5° | 2859.5 | 2896.3 | 2712.5 | 2403.8 | 1955.4 | *1492.2* | 1330.5 | 793.9 | 411.7 | 264.6 | 205.8 |
| 15° | 3881.3 | 3793.1 | 3741.7 | 3447.6 | 3021.3 | *2469.9* | 2264.1 | 1337.9 | 595.4 | 301.4 | 205.8 |
| 17.5° | 4572.3 | 4572.3 | 4498.8 | 4300.3 | 3910.7 | *3425.6* | 3256.5 | 2161.2 | 963.0 | 345.5 | 213.2 |
| 20° | 5380.9 | 5380.9 | 5248.6 | 5108.9 | 4763.4 | *4351.8* | 4190.1 | 3072.7 | 1492.2 | 441.1 | 213.2 |
| 22.5° | 6358.6 | 6373.3 | 6226.3 | 5976.3 | 5645.6 | *5189.8* | 5050.1 | 3918.1 | 2161.2 | 588.1 | 220.5 |
| 25° | 7549.5 | 7564.2 | 7351.0 | 7115.8 | 6608.5 | *6116.0* | 5902.8 | 4888.4 | 2977.1 | 823.3 | 220.5 |
| 27.5° | 8865.3 | 8968.2 | 8652.1 | 8247.8 | 7711.2 | *7093.7* | 6932.0 | 5763.2 | 3785.8 | 1161.5 | 235.2 |
| 30° | 10504.6 | 10504.6 | 10085.5 | 9519.5 | 8938.8 | *8174.3* | 7968.5 | 6682.0 | 4645.8 | 1609.9 | 249.9 |
| 32.5° | 11915.9 | 11805.7 | 11269.1 | 10673.6 | 10056.1 | *9343.1* | 9122.6 | 7645.0 | 5527.9 | 2168.5 | 279.3 |
| 35° | 12996.5 | 12901.0 | 12239.4 | 11599.9 | 11063.2 | *10409.0* | 10144.4 | 8688.9 | 6461.5 | 2800.7 | 323.4 |
| 37.5° | 13922.8 | 13886.0 | 12989.2 | 12187.9 | 11835.1 | *11261.7* | 11026.5 | 9673.9 | 7380.4 | 3484.4 | 374.9 |
| 40° | 14937.2 | 14819.6 | 13864.0 | 12871.6 | 12342.3 | *11879.2* | 11666.0 | 10467.8 | 8262.5 | 4285.6 | 448.4 |
| 42.5° | 15804.6 | 15664.9 | 14804.9 | 13834.5 | 12930.4 | *12305.5* | 12099.7 | 11136.7 | 9122.6 | 5086.9 | 544.0 |
| 45° | 16767.6 | 16694.1 | 15826.7 | 15091.6 | 13886.0 | *12886.3* | 12614.3 | 11673.4 | 9909.1 | 6042.5 | 668.9 |
| 47.5° | 18215.7 | 18083.4 | 17274.8 | 16672.0 | 15275.3 | *13768.4* | 13378.8 | 12224.7 | 10666.3 | 6983.4 | 860.1 |
| 50° | 19899.1 | 19810.9 | 19333.1 | 18855.3 | 17465.9 | *15275.3* | 14812.2 | 13018.6 | 11511.6 | 8100.8 | 1110.0 |
| 52.5° | 21273.7 | 21259.0 | 21317.8 | 21325.2 | 20274.0 | *17811.4* | 17120.4 | 14297.7 | 12482.0 | 9203.4 | 1462.8 |
| 55° | 21244.3 | 21310.5 | 21957.4 | 22699.8 | 22780.7 | *21273.7* | 20604.8 | 16451.5 | 13746.3 | 10563.4 | 1955.4 |
| 57.5° | 20450.4 | 20399.0 | 21082.6 | 22200.0 | 22986.5 | *23148.2* | 23038.0 | 19796.2 | 15650.2 | 12202.6 | 2712.5 |
| 58° | *20193.1* | *20149.0* | *20795.9* | *21935.3* | *22839.5* | *23273.2* | *23162.9* | *20553.3* | *16076.6* | *12437.9* | *2918.3* |
| 60° | 19259.6 | 19266.9 | 19649.2 | 20685.7 | 21589.8 | *22619.0* | 22721.9 | 22714.5 | 18201.0 | 14011.0 | 3954.8 |
| 62.5° | 18024.6 | 17965.8 | 18318.6 | 19164.0 | 19957.9 | *20648.9* | 20825.3 | 22861.6 | 21310.5 | 16010.4 | 5932.2 |
| 65° | 16319.2 | 16231.0 | 16605.9 | 17561.5 | 18414.2 | *18862.6* | 18870.0 | 20891.5 | 22773.3 | 18156.9 | 8755.0 |
| 67.5° | 13150.9 | 13077.4 | 13827.2 | 15054.8 | 16370.6 | *16958.7* | 17223.4 | 18127.5 | 21538.4 | 19612.4 | 10372.2 |
| 70° | 8056.7 | 8211.0 | 9254.9 | 11180.8 | 13430.2 | *14510.8* | 14907.8 | 15187.1 | 18340.7 | 19391.9 | 8674.2 |
| 72.5° | 3719.6 | 3535.8 | 4425.3 | 5770.5 | 8336.0 | *10739.8* | 11151.4 | 12246.7 | 14540.2 | 16833.8 | 6468.9 |
| 75° | 1734.8 | 1668.7 | 1874.5 | 2521.4 | 3778.4 | *5799.9* | 6549.7 | 9776.8 | 11151.4 | 11710.1 | 4667.9 |
| 77.5° | 889.5 | 896.8 | 1065.9 | 1146.8 | 1558.4 | *2683.1* | 3080.1 | 6432.1 | 8174.3 | 6535.0 | 3131.5 |
| 80° | 389.6 | 404.3 | 411.7 | 448.4 | 632.2 | *1036.5* | 1168.8 | 2984.5 | 5586.7 | 3330.0 | 1712.8 |
| 82.5° | 249.9 | 257.3 | 257.3 | 257.3 | 301.4 | *411.7* | 470.5 | 1198.2 | 2786.0 | 1654.0 | 529.3 |
| 85° | 132.3 | 132.3 | 147.0 | 183.8 | 213.2 | *249.9* | 264.6 | 382.3 | 918.9 | 492.5 | 125.0 |
| 87.5° | 73.5 | 80.9 | 88.2 | 110.3 | 139.7 | *169.1* | 183.8 | 264.6 | 352.8 | 338.1 | 29.4 |
| 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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Scaled Data Report

REPORT NUMBER: P1047250
CATALOG NUMBER: GALN-SA6B-760-U-T3BC

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 183.8 | 183.8 | 183.8 | 183.8 | 183.8 | 183.8 | 183.8 | 183.8 | 183.8 | 183.8 | 183.8 |
| 2.5° | 191.1 | 183.8 | 176.4 | 169.1 | 161.7 | 154.4 | 154.4 | 154.4 | 154.4 | 154.4 | 154.4 |
| 5° | 183.8 | 176.4 | 169.1 | 154.4 | 139.7 | 132.3 | 125.0 | 117.6 | 117.6 | 117.6 | 117.6 |
| 7.5° | 183.8 | 176.4 | 154.4 | 139.7 | 125.0 | 110.3 | 95.6 | 95.6 | 95.6 | 95.6 | 95.6 |
| 10° | 183.8 | 169.1 | 147.0 | 125.0 | 102.9 | 88.2 | 80.9 | 73.5 | 73.5 | 73.5 | 73.5 |
| 12.5° | 183.8 | 161.7 | 139.7 | 110.3 | 88.2 | 73.5 | 66.2 | 58.8 | 58.8 | 58.8 | 58.8 |
| 15° | 183.8 | 161.7 | 132.3 | 102.9 | 80.9 | 58.8 | 51.5 | 44.1 | 44.1 | 44.1 | 44.1 |
| 17.5° | 176.4 | 154.4 | 125.0 | 88.2 | 66.2 | 44.1 | 36.8 | 29.4 | 29.4 | 36.8 | 36.8 |
| 20° | 169.1 | 147.0 | 110.3 | 73.5 | 51.5 | 36.8 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 |
| 22.5° | 169.1 | 147.0 | 102.9 | 66.2 | 44.1 | 22.1 | 14.7 | 14.7 | 14.7 | 14.7 | 22.1 |
| 25° | 169.1 | 139.7 | 88.2 | 51.5 | 29.4 | 14.7 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 |
| 27.5° | 169.1 | 139.7 | 80.9 | 44.1 | 22.1 | 14.7 | 7.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 161.7 | 132.3 | 73.5 | 36.8 | 14.7 | 7.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 161.7 | 125.0 | 58.8 | 29.4 | 14.7 | 7.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 169.1 | 117.6 | 51.5 | 22.1 | 7.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.4 |
| 37.5° | 176.4 | 110.3 | 44.1 | 14.7 | 7.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 183.8 | 102.9 | 44.1 | 14.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 198.5 | 102.9 | 36.8 | 14.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 213.2 | 102.9 | 29.4 | 7.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 242.6 | 110.3 | 29.4 | 7.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 264.6 | 117.6 | 22.1 | 7.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 294.0 | 110.3 | 22.1 | 7.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 330.8 | 110.3 | 22.1 | 7.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 360.2 | 102.9 | 22.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 58° | *374.9* | *95.6* | *14.7* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* | *0.0* |
| 60° | 448.4 | 88.2 | 14.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 698.3 | 73.5 | 14.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 1418.7 | 66.2 | 14.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 2646.4 | 58.8 | 14.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 2962.4 | 66.2 | 7.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1867.1 | 51.5 | 7.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 985.0 | 51.5 | 7.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 492.5 | 51.5 | 7.4 | 7.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 227.9 | 36.8 | 7.4 | 7.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 95.6 | 22.1 | 14.7 | 7.4 | 7.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 44.1 | 22.1 | 14.7 | 14.7 | 7.4 | 7.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 22.1 | 22.1 | 22.1 | 14.7 | 14.7 | 7.4 | 7.4 | 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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# LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-7

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-760-U-5WQ

Data in this report applies to families of products including GSS-SB1A-760-U-5WQ

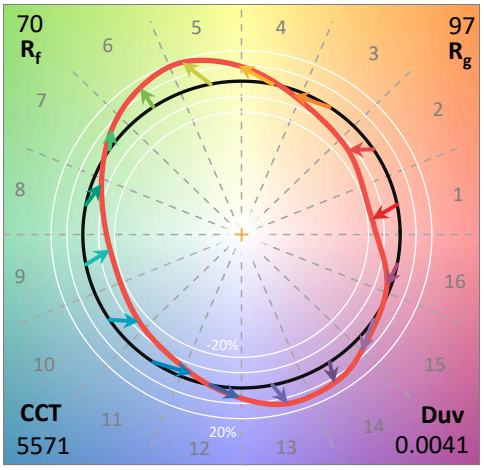
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2407-184-7 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 - 76IN SPHERE |
| Measurement Geometry: | 4π |
| Issue Date: | 10/15/2024 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGraw-Edison |
| Catalog Number: | **GSS-SB1A-7[illegible]-U-5WQ** |
| Description: | GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 5700K CCT 26 LEDS |

## Spectral Parameters

| | | | | | |
|---|---|---|---|---|---|
| CCT (K): | 5571 | CRI (Ra): | 69.9 | | |
| CIE u': | 0.2033 | R1: | 68.8 | R9: | -35.4 |
| CIE v': | 0.4806 | R2: | 72.5 | R10: | 36.7 |
| Duv: | 0.0041 | R3: | 76.8 | R11: | 73.9 |
| CIE x: | 0.3308 | R4: | 72.0 | R12: | 47.8 |
| CIE y: | 0.3476 | R5: | 70.9 | R13: | 68.0 |
| CIE z: | 0.3216 | R6: | 65.6 | R14: | 87.0 |
| Peak Wavelength (nm): | 442 | R7: | 75.5 | R15: | 59.8 |
| Dominant Wavelength (nm): | 544 | R8: | 56.8 | | |
| Purity: | 3.635698 | | | | |
| Rf: | 70.4 | | | | |
| Rg: | 97.1 | | | | |




## Test Conditions

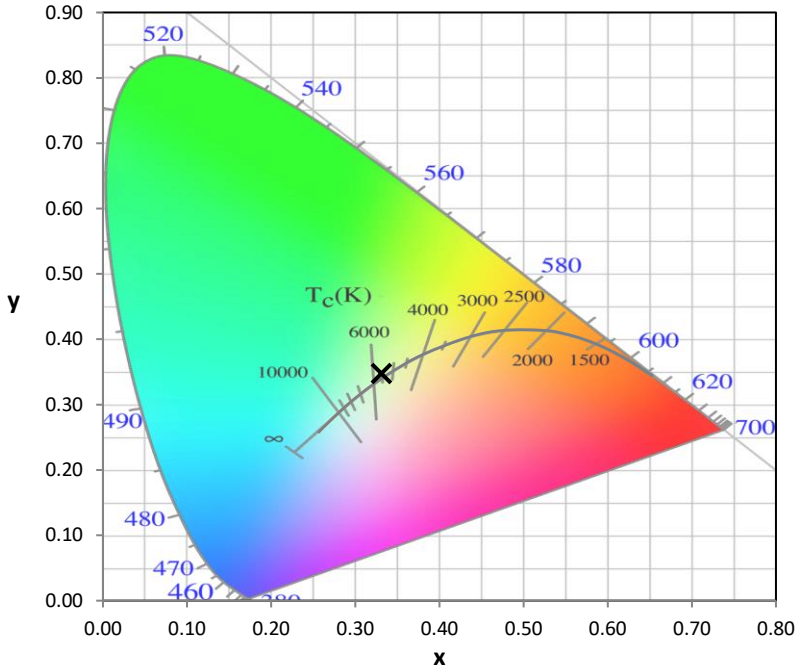
| | |
|---|---|
| Stabilization Time: | 20M |
| Operation Time: | 1H 20M |
| Sphere Temperature (°C): | 25.2 |

REPORT NUMBER: SP1-2407-184-7

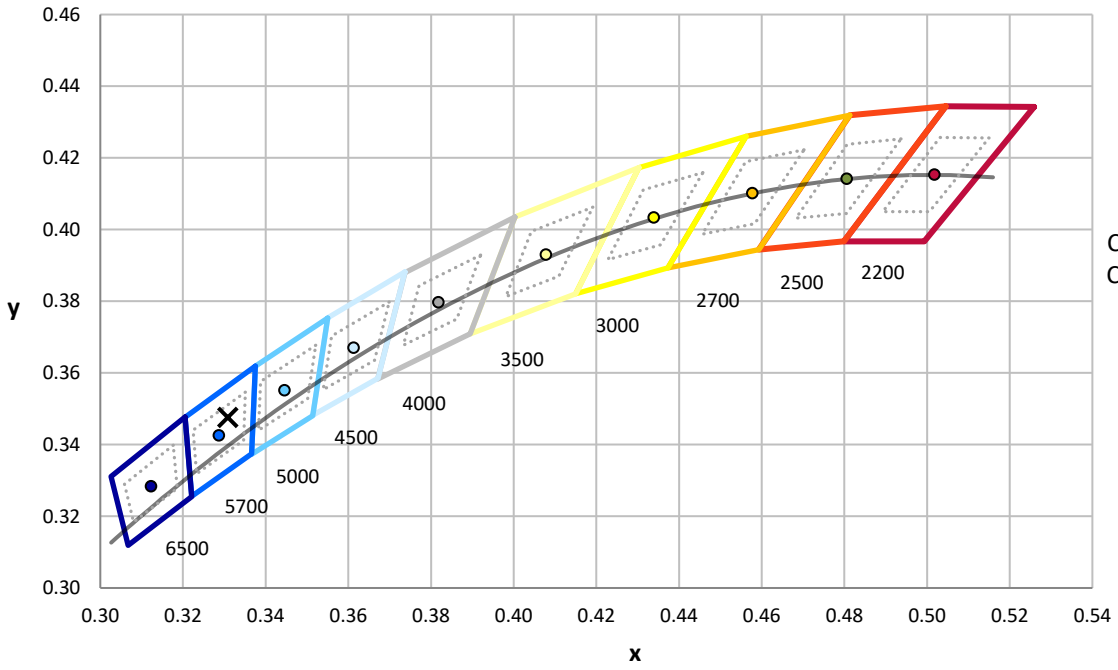
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC 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: SP1-2407-184-7

## CIE 1931 Chromaticity Diagram




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

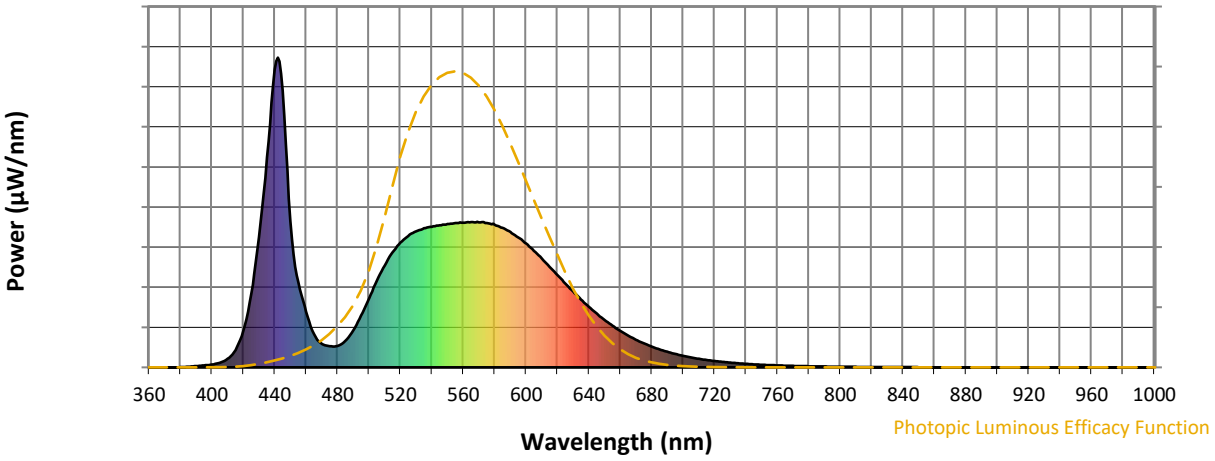



CCT = 5571K
CIE x = 0.3308
CIE y = 0.3476
Duv = 0.0041

Point lies inside the ANSI 5700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-7

## Photopic Flux vs. Wavelength

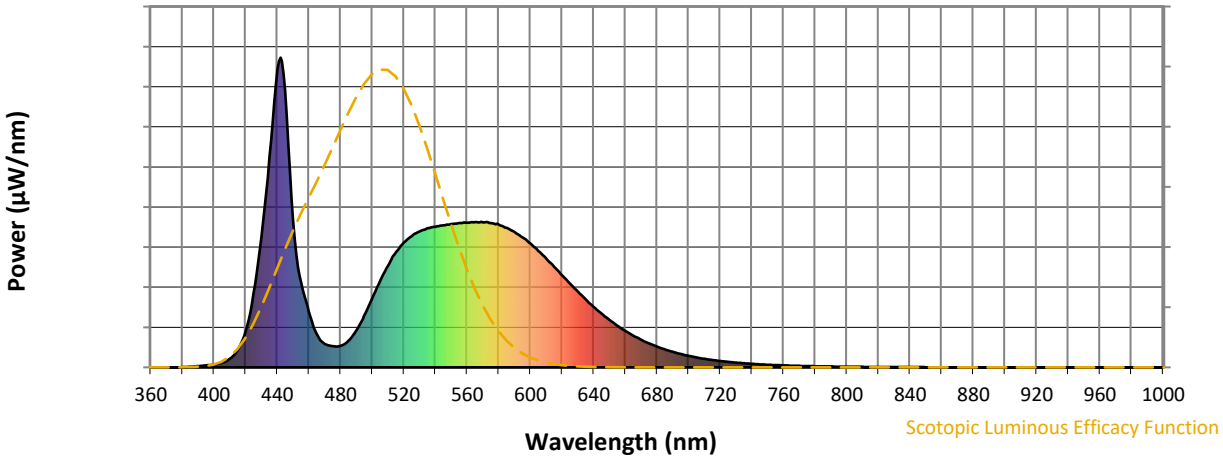



## Photopic Lumens: NR

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 120 | NR | 620 | 298 | NR | 750 | 9 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 167 | NR | 625 | 270 | NR | 755 | 7 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 222 | NR | 630 | 245 | NR | 760 | 6 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 279 | NR | 635 | 219 | NR | 765 | 6 | NR | 895 | 0 | NR |
| 380 | 1 | NR | 510 | 329 | NR | 640 | 196 | NR | 770 | 5 | NR | 900 | 0 | NR |
| 385 | 2 | NR | 515 | 371 | NR | 645 | 173 | NR | 775 | 4 | NR | 905 | 0 | NR |
| 390 | 4 | NR | 520 | 403 | NR | 650 | 153 | NR | 780 | 4 | NR | 910 | 0 | NR |
| 395 | 6 | NR | 525 | 424 | NR | 655 | 135 | NR | 785 | 3 | NR | 915 | 0 | NR |
| 400 | 9 | NR | 530 | 439 | NR | 660 | 117 | NR | 790 | 3 | NR | 920 | 0 | NR |
| 405 | 14 | NR | 535 | 449 | NR | 665 | 103 | NR | 795 | 2 | NR | 925 | 0 | NR |
| 410 | 28 | NR | 540 | 454 | NR | 670 | 89 | NR | 800 | 2 | NR | 930 | 0 | NR |
| 415 | 55 | NR | 545 | 459 | NR | 675 | 77 | NR | 805 | 2 | NR | 935 | 0 | NR |
| 420 | 118 | NR | 550 | 463 | NR | 680 | 67 | NR | 810 | 2 | NR | 940 | 0 | NR |
| 425 | 237 | NR | 555 | 466 | NR | 685 | 58 | NR | 815 | 1 | NR | 945 | 0 | NR |
| 430 | 420 | NR | 560 | 467 | NR | 690 | 50 | NR | 820 | 1 | NR | 950 | 0 | NR |
| 435 | 677 | NR | 565 | 469 | NR | 695 | 43 | NR | 825 | 1 | NR | 955 | 0 | NR |
| 440 | 962 | NR | 570 | 469 | NR | 700 | 37 | NR | 830 | 1 | NR | 960 | 0 | NR |
| 445 | 894 | NR | 575 | 466 | NR | 705 | 32 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 472 | NR | 580 | 461 | NR | 710 | 28 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 275 | NR | 585 | 450 | NR | 715 | 24 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 180 | NR | 590 | 437 | NR | 720 | 21 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 107 | NR | 595 | 420 | NR | 725 | 18 | NR | 855 | 0 | NR | 985 | 0 | NR |
| 470 | 76 | NR | 600 | 400 | NR | 730 | 15 | NR | 860 | 0 | NR | 990 | 0 | NR |
| 475 | 68 | NR | 605 | 376 | NR | 735 | 13 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 69 | NR | 610 | 352 | NR | 740 | 11 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 86 | NR | 615 | 325 | NR | 745 | 10 | NR | 875 | 0 | NR | | | |

REPORT NUMBER: SP1-2407-184-7

## Scotopic Flux vs. Wavelength

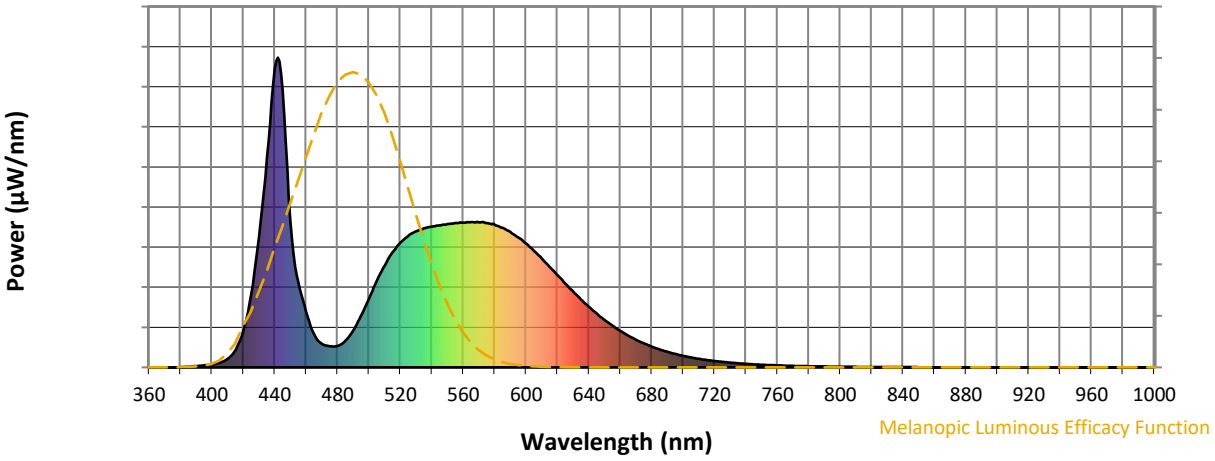



**Scotopic Lumens: NR** **S/P: 1.84**

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 120 | NR | 620 | 298 | NR | 750 | 9 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 167 | NR | 625 | 270 | NR | 755 | 7 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 222 | NR | 630 | 245 | NR | 760 | 6 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 279 | NR | 635 | 219 | NR | 765 | 6 | NR | 895 | 0 | NR |
| 380 | 1 | NR | 510 | 329 | NR | 640 | 196 | NR | 770 | 5 | NR | 900 | 0 | NR |
| 385 | 2 | NR | 515 | 371 | NR | 645 | 173 | NR | 775 | 4 | NR | 905 | 0 | NR |
| 390 | 4 | NR | 520 | 403 | NR | 650 | 153 | NR | 780 | 4 | NR | 910 | 0 | NR |
| 395 | 6 | NR | 525 | 424 | NR | 655 | 135 | NR | 785 | 3 | NR | 915 | 0 | NR |
| 400 | 9 | NR | 530 | 439 | NR | 660 | 117 | NR | 790 | 3 | NR | 920 | 0 | NR |
| 405 | 14 | NR | 535 | 449 | NR | 665 | 103 | NR | 795 | 2 | NR | 925 | 0 | NR |
| 410 | 28 | NR | 540 | 454 | NR | 670 | 89 | NR | 800 | 2 | NR | 930 | 0 | NR |
| 415 | 55 | NR | 545 | 459 | NR | 675 | 77 | NR | 805 | 2 | NR | 935 | 0 | NR |
| 420 | 118 | NR | 550 | 463 | NR | 680 | 67 | NR | 810 | 2 | NR | 940 | 0 | NR |
| 425 | 237 | NR | 555 | 466 | NR | 685 | 58 | NR | 815 | 1 | NR | 945 | 0 | NR |
| 430 | 420 | NR | 560 | 467 | NR | 690 | 50 | NR | 820 | 1 | NR | 950 | 0 | NR |
| 435 | 677 | NR | 565 | 469 | NR | 695 | 43 | NR | 825 | 1 | NR | 955 | 0 | NR |
| 440 | 962 | NR | 570 | 469 | NR | 700 | 37 | NR | 830 | 1 | NR | 960 | 0 | NR |
| 445 | 894 | NR | 575 | 466 | NR | 705 | 32 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 472 | NR | 580 | 461 | NR | 710 | 28 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 275 | NR | 585 | 450 | NR | 715 | 24 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 180 | NR | 590 | 437 | NR | 720 | 21 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 107 | NR | 595 | 420 | NR | 725 | 18 | NR | 855 | 0 | NR | 985 | 0 | NR |
| 470 | 76 | NR | 600 | 400 | NR | 730 | 15 | NR | 860 | 0 | NR | 990 | 0 | NR |
| 475 | 68 | NR | 605 | 376 | NR | 735 | 13 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 69 | NR | 610 | 352 | NR | 740 | 11 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 86 | NR | 615 | 325 | NR | 745 | 10 | NR | 875 | 0 | NR | | | |

REPORT NUMBER: SP1-2407-184-7

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 3.71**

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 120 | NR | 620 | 298 | NR | 750 | 9 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 167 | NR | 625 | 270 | NR | 755 | 7 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 222 | NR | 630 | 245 | NR | 760 | 6 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 279 | NR | 635 | 219 | NR | 765 | 6 | NR | 895 | 0 | NR |
| 380 | 1 | NR | 510 | 329 | NR | 640 | 196 | NR | 770 | 5 | NR | 900 | 0 | NR |
| 385 | 2 | NR | 515 | 371 | NR | 645 | 173 | NR | 775 | 4 | NR | 905 | 0 | NR |
| 390 | 4 | NR | 520 | 403 | NR | 650 | 153 | NR | 780 | 4 | NR | 910 | 0 | NR |
| 395 | 6 | NR | 525 | 424 | NR | 655 | 135 | NR | 785 | 3 | NR | 915 | 0 | NR |
| 400 | 9 | NR | 530 | 439 | NR | 660 | 117 | NR | 790 | 3 | NR | 920 | 0 | NR |
| 405 | 14 | NR | 535 | 449 | NR | 665 | 103 | NR | 795 | 2 | NR | 925 | 0 | NR |
| 410 | 28 | NR | 540 | 454 | NR | 670 | 89 | NR | 800 | 2 | NR | 930 | 0 | NR |
| 415 | 55 | NR | 545 | 459 | NR | 675 | 77 | NR | 805 | 2 | NR | 935 | 0 | NR |
| 420 | 118 | NR | 550 | 463 | NR | 680 | 67 | NR | 810 | 2 | NR | 940 | 0 | NR |
| 425 | 237 | NR | 555 | 466 | NR | 685 | 58 | NR | 815 | 1 | NR | 945 | 0 | NR |
| 430 | 420 | NR | 560 | 467 | NR | 690 | 50 | NR | 820 | 1 | NR | 950 | 0 | NR |
| 435 | 677 | NR | 565 | 469 | NR | 695 | 43 | NR | 825 | 1 | NR | 955 | 0 | NR |
| 440 | 962 | NR | 570 | 469 | NR | 700 | 37 | NR | 830 | 1 | NR | 960 | 0 | NR |
| 445 | 894 | NR | 575 | 466 | NR | 705 | 32 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 472 | NR | 580 | 461 | NR | 710 | 28 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 275 | NR | 585 | 450 | NR | 715 | 24 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 180 | NR | 590 | 437 | NR | 720 | 21 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 107 | NR | 595 | 420 | NR | 725 | 18 | NR | 855 | 0 | NR | 985 | 0 | NR |
| 470 | 76 | NR | 600 | 400 | NR | 730 | 15 | NR | 860 | 0 | NR | 990 | 0 | NR |
| 475 | 68 | NR | 605 | 376 | NR | 735 | 13 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 69 | NR | 610 | 352 | NR | 740 | 11 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 86 | NR | 615 | 325 | NR | 745 | 10 | NR | 875 | 0 | NR | | | |

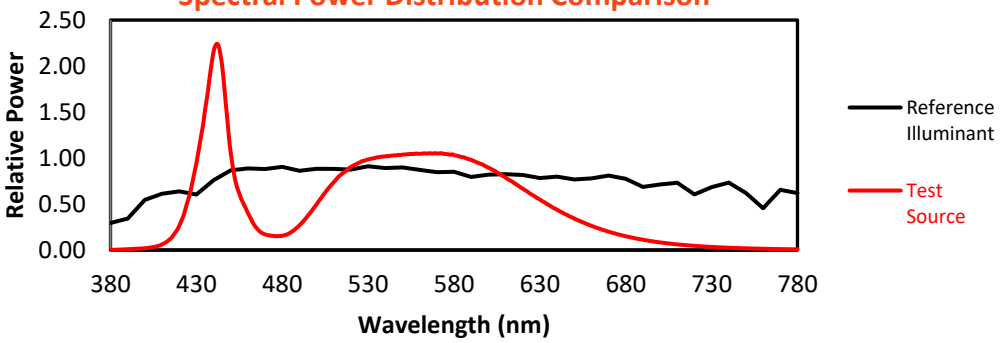
REPORT NUMBER: SP1-2407-184-7

# TM-30-18

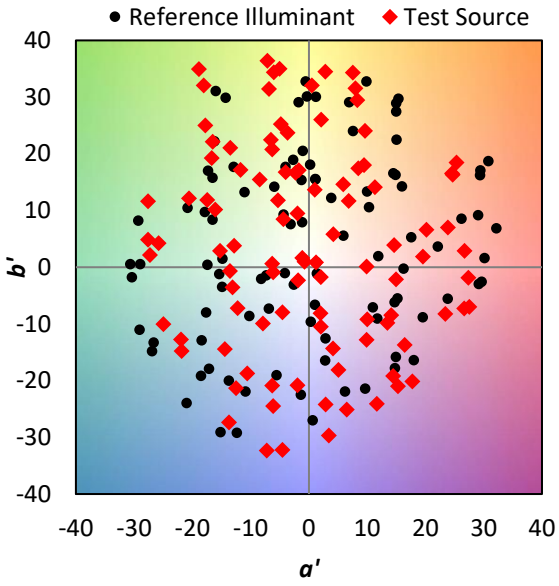
## Summary

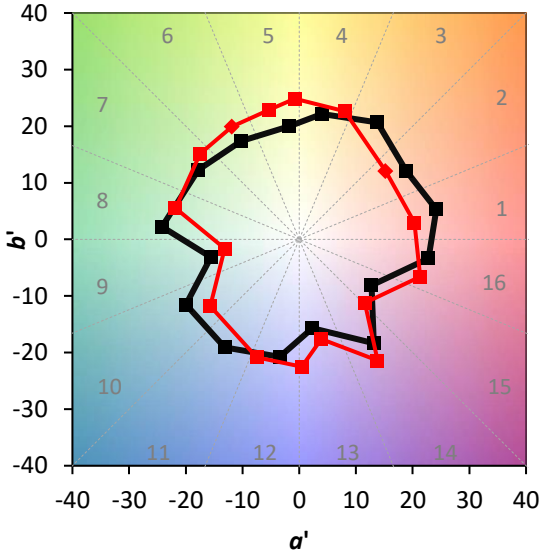
$R_f$ = 70.4
$R_g$ = 97.1
CIE $R_a$ = 69.9
$R_9$ = -35.4

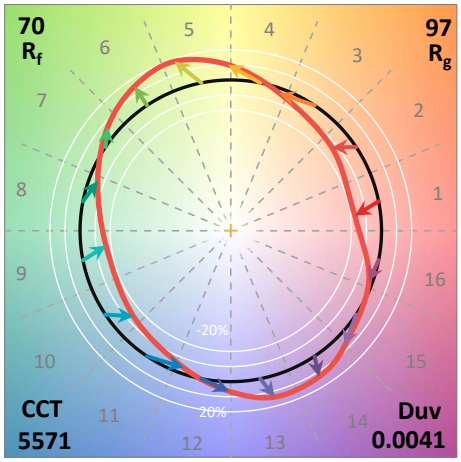
## Spectral Power Distribution Comparison

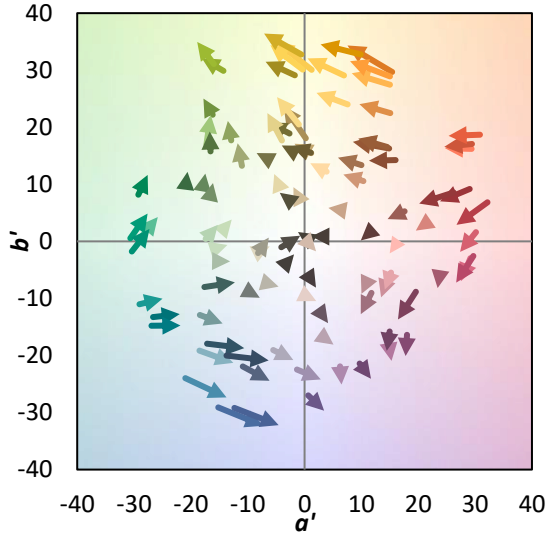



## Color Vector Graphics



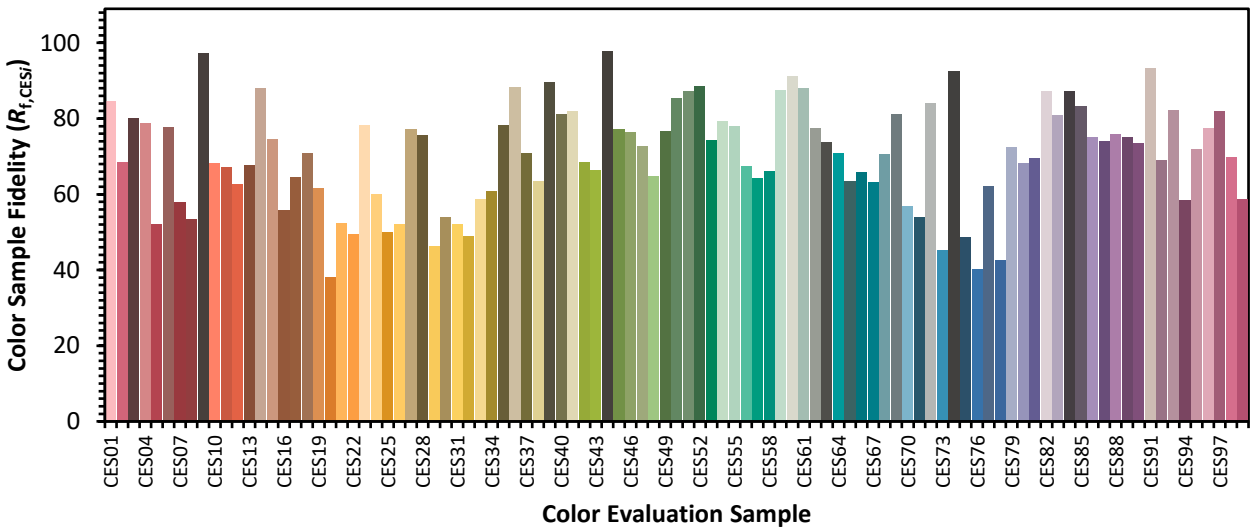



REPORT NUMBER: SP1-2407-184-7

# TM-30-18

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

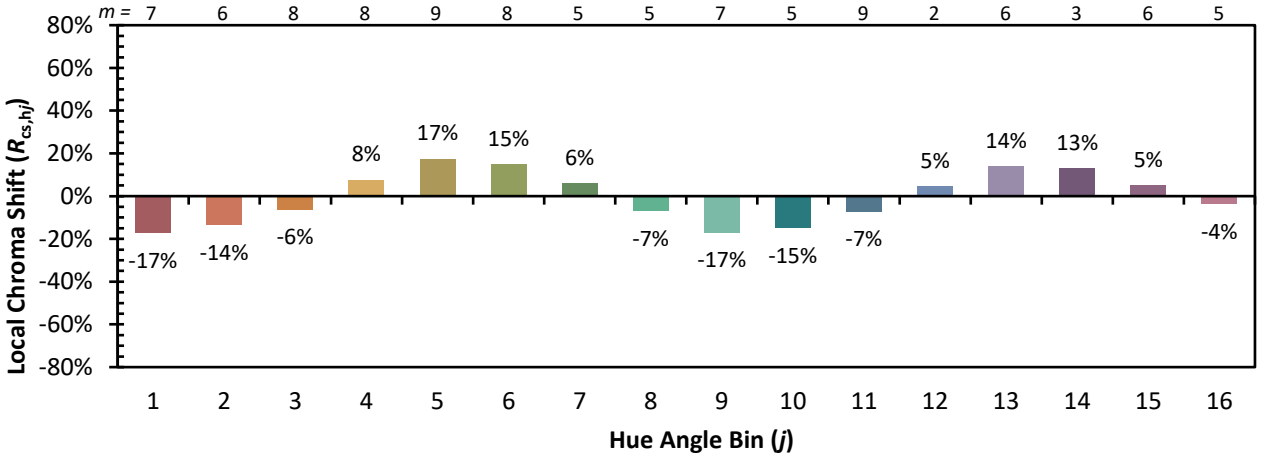
| | | | |
|---|---|---|---|
| CES01 = 85 | CES26 = 52 | CES51 = 87 | CES76 = 40 |
| CES02 = 59 | CES27 = 77 | CES52 = 88 | CES77 = 62 |
| CES03 = 30 | CES28 = 76 | CES53 = 74 | CES78 = 43 |
| CES04 = 68 | CES29 = 46 | CES54 = 79 | CES79 = 72 |
| CES05 = 45 | CES30 = 54 | CES55 = 78 | CES80 = 68 |
| CES06 = 49 | CES31 = 52 | CES56 = 67 | CES81 = 70 |
| CES07 = 38 | CES32 = 49 | CES57 = 64 | CES82 = 87 |
| CES08 = 37 | CES33 = 59 | CES58 = 66 | CES83 = 81 |
| CES09 = 29 | CES34 = 61 | CES59 = 87 | CES84 = 87 |
| CES10 = 72 | CES35 = 78 | CES60 = 91 | CES85 = 83 |
| CES11 = 55 | CES36 = 88 | CES61 = 88 | CES86 = 75 |
| CES12 = 61 | CES37 = 71 | CES62 = 77 | CES87 = 74 |
| CES13 = 41 | CES38 = 64 | CES63 = 74 | CES88 = 76 |
| CES14 = 74 | CES39 = 90 | CES64 = 71 | CES89 = 75 |
| CES15 = 70 | CES40 = 81 | CES65 = 63 | CES90 = 73 |
| CES16 = 46 | CES41 = 82 | CES66 = 66 | CES91 = 93 |
| CES17 = 48 | CES42 = 69 | CES67 = 63 | CES92 = 69 |
| CES18 = 55 | CES43 = 67 | CES68 = 71 | CES93 = 82 |
| CES19 = 70 | CES44 = 98 | CES69 = 81 | CES94 = 58 |
| CES20 = 63 | CES45 = 77 | CES70 = 57 | CES95 = 72 |
| CES21 = 85 | CES46 = 76 | CES71 = 54 | CES96 = 78 |
| CES22 = 77 | CES47 = 73 | CES72 = 84 | CES97 = 82 |
| CES23 = 91 | CES48 = 65 | CES73 = 45 | CES98 = 70 |
| CES24 = 90 | CES49 = 77 | CES74 = 92 | CES99 = 59 |
| CES25 = 71 | CES50 = 85 | CES75 = 49 | |

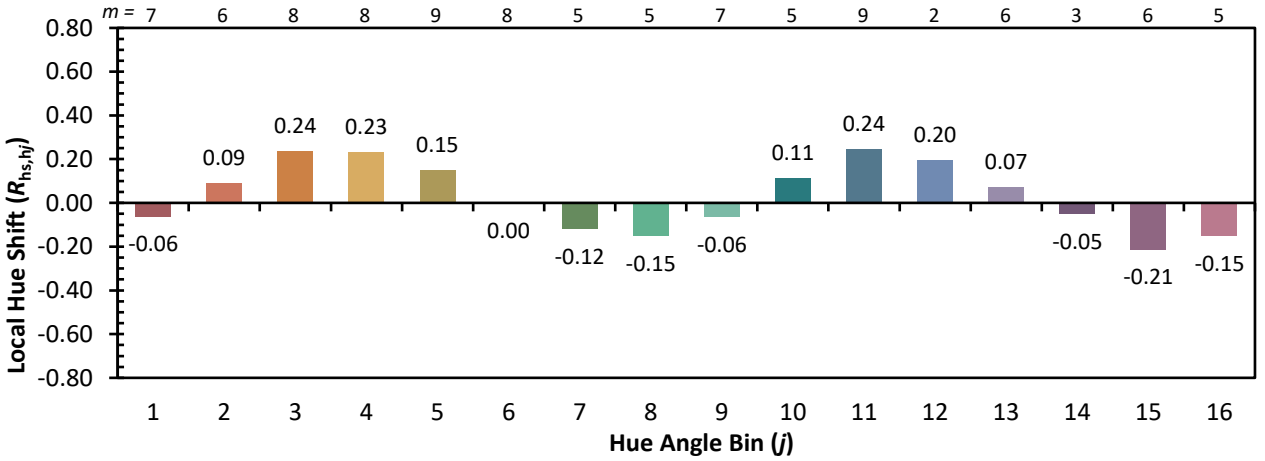


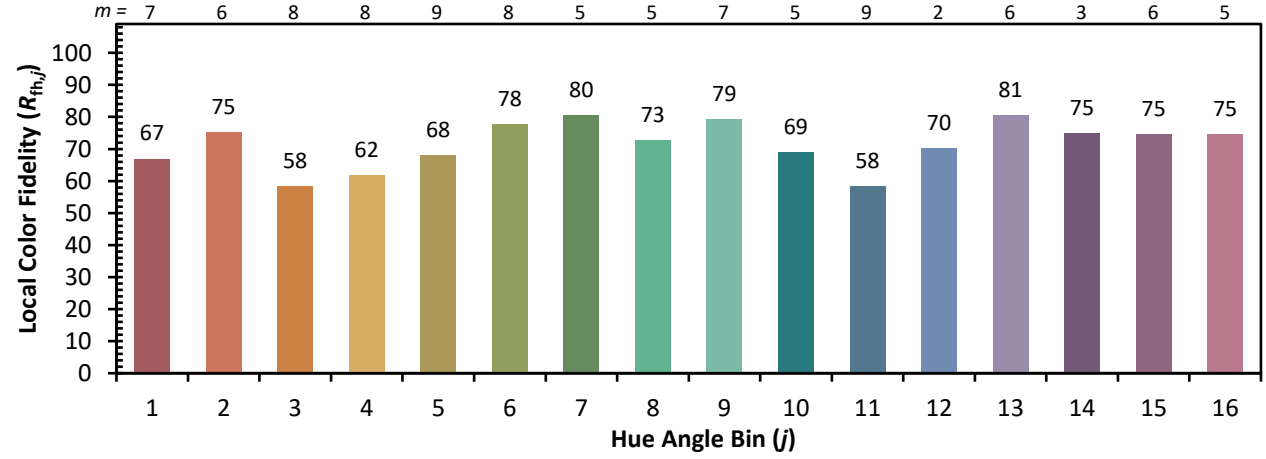
REPORT NUMBER: SP1-2407-184-7

**TM-30-18**

## Color Rendition by Hue-Angle Bin



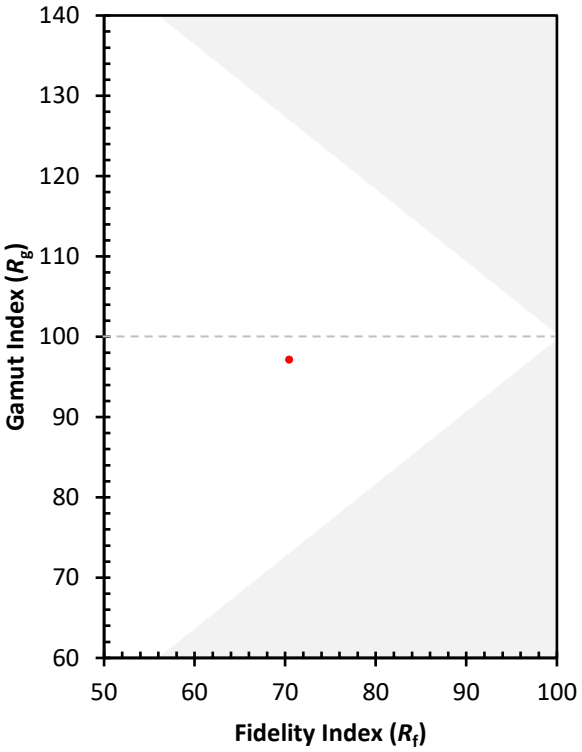



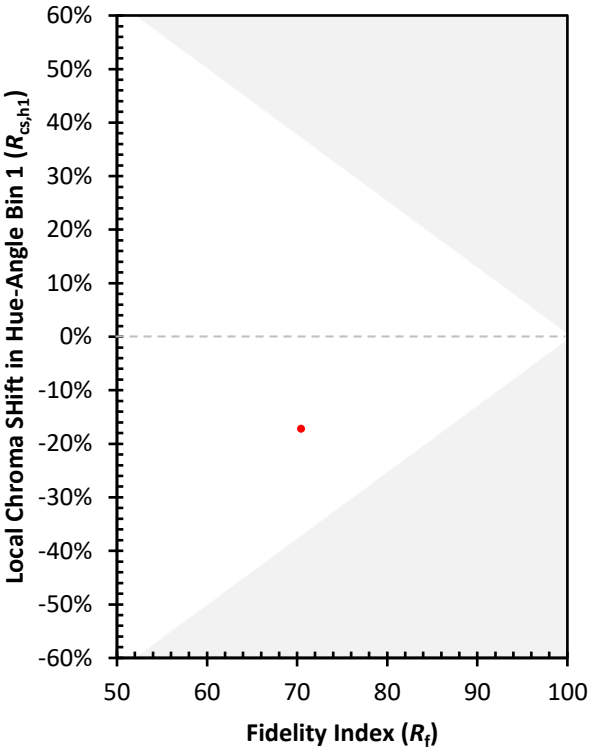



REPORT NUMBER: SP1-2407-184-7

# TM-30-18

## Measure Comparisons




(END OF REPORT)