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: P1063895

Luminaire Tested: **GLAN-SA6C-740-U-T4BC**

Issue Date: 08/07/2025

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: | P1063895 |
| Test Lab: | INNOVATION CENTER(G3) |
| Issue Date: | 08/07/2025 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | STREETWORKS |
| Catalog Number: | GLAN-SA6C-740-U-T4BC |
| Description: | GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 6xLight Square PACKAGE 70CRI 4000K FIXTURE w/ TYPE IV ANGLED BACKLIGHT CONTROL |
| Light Source: | (84) 4000K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 33629.9 lumens |
| Efficiency: | N/A |
| Efficacy: | 119.0 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1' x H: 0') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B0 - U0 - G5 |

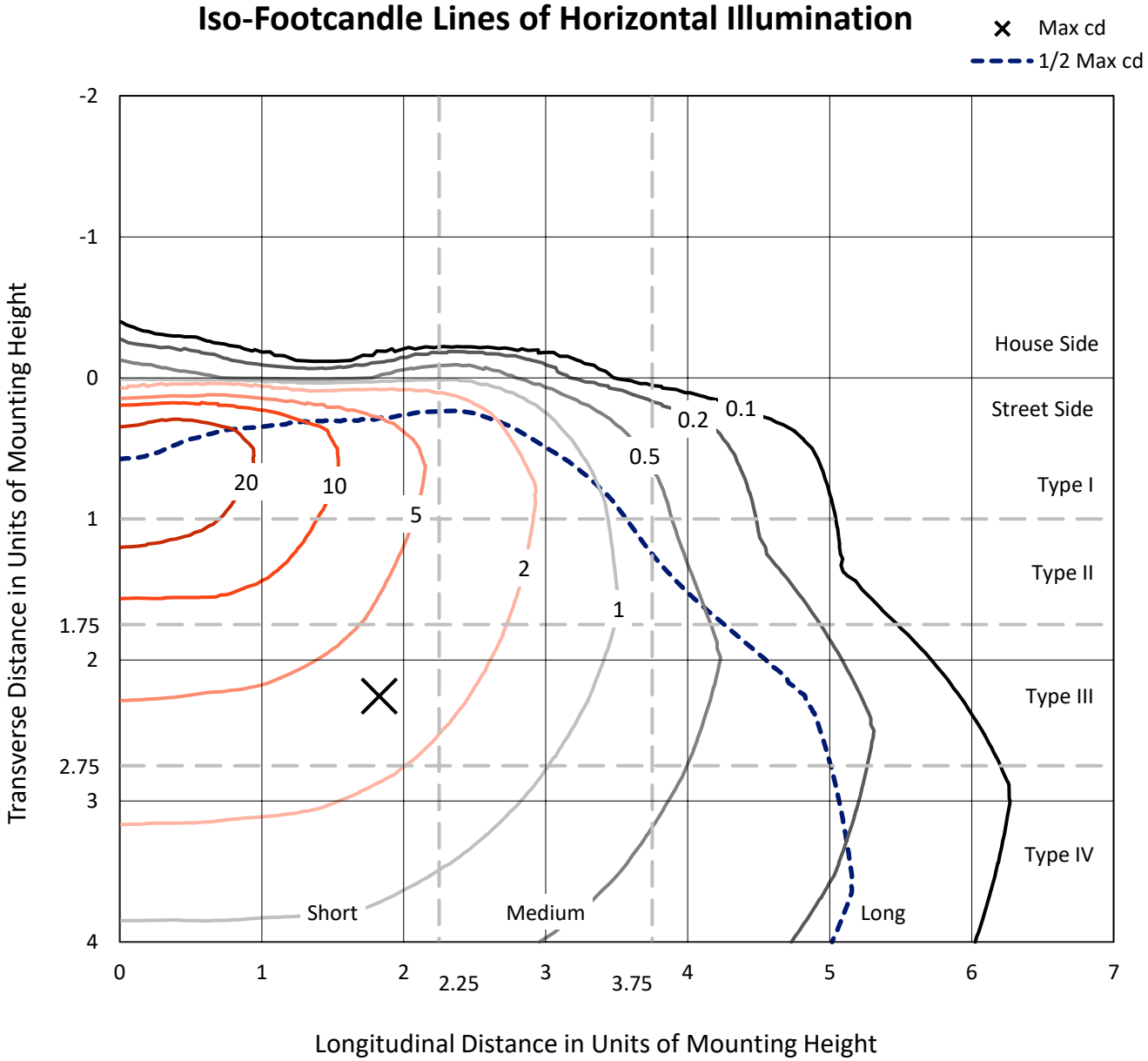
| | |
|---|---|
| Input Watts (W): | 282.5 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.97 |
| Total Harmonic Distortion (THDi): | NR |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

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

Scaled Data Report

REPORT NUMBER: P1063895
CATALOG NUMBER: GLAN-SA6C-740-U-T4BC

## Iso-Footcandle Lines of Horizontal Illumination



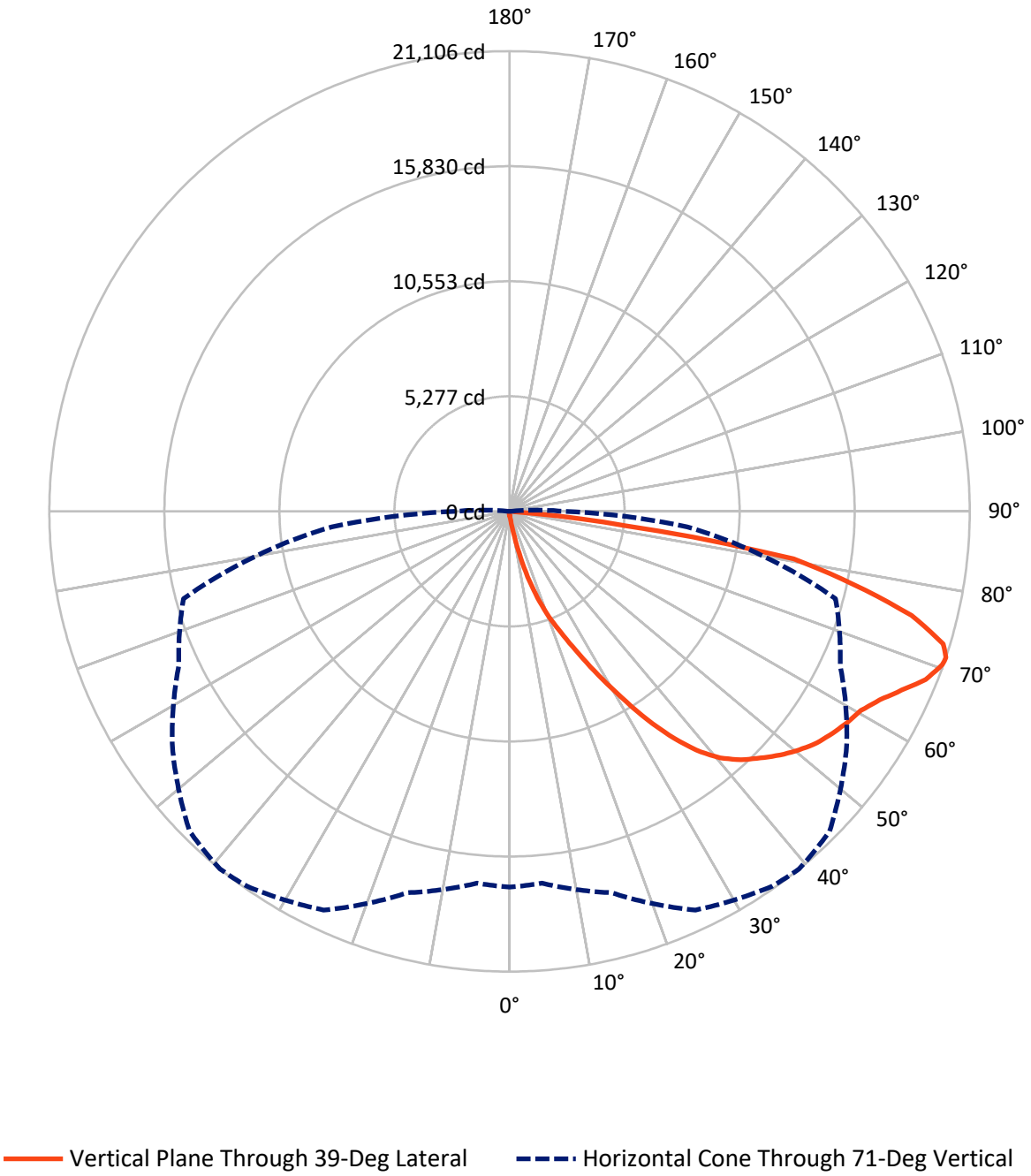

Based on 15 foot mounting height. Maximum calculated value = 34.6 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1063895
CATALOG NUMBER: GLAN-SA6C-740-U-T4BC

## Luminous Intensity Polar Plot



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

Scaled Data Report

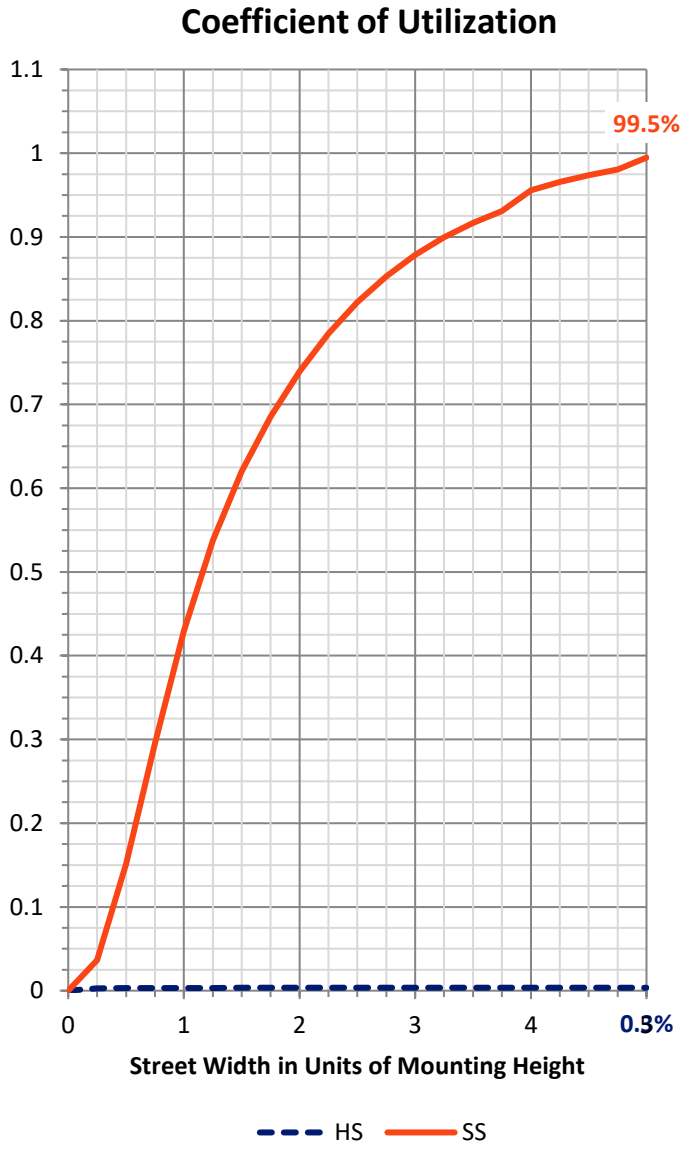
REPORT NUMBER: P1063895
CATALOG NUMBER: GLAN-SA6C-740-U-T4BC

**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 119.5 | 0.0 | 119.5 |
| | % Fixture | 0.4 | 0.0 | 0.4 |
| **Street Side** | Lumens | 33510.3 | 0.0 | 33510.3 |
| | % Fixture | 99.6 | 0.0 | 99.6 |
| **Total** | Lumens | 33629.9 | 0.0 | 33629.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 28.1 | 0.1 |
| 10°-20° | 359.4 | 1.1 |
| 20°-30° | 1280.0 | 3.8 |
| 30°-40° | 3085.0 | 9.2 |
| 40°-50° | 5163.0 | 15.4 |
| 50°-60° | 6631.2 | 19.7 |
| 60°-70° | 8391.9 | 25.0 |
| 70°-80° | 7481.7 | 22.2 |
| 80°-90° | 1209.4 | 3.6 |
| 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° | 33629.9 | 100.0 |
| 0°-180° | 33629.9 | 100.0 |



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

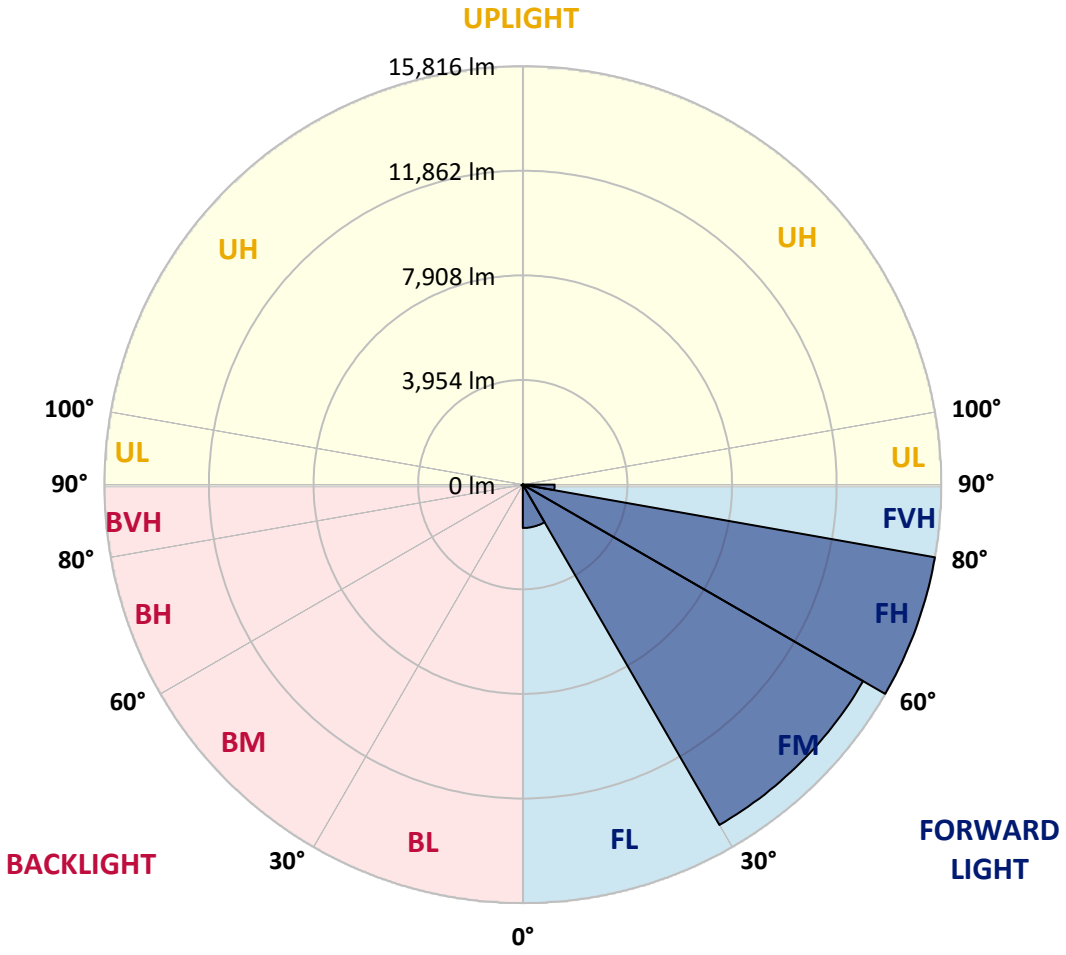
Scaled Data Report

REPORT NUMBER: P1063895
CATALOG NUMBER: GLAN-SA6C-740-U-T4BC

## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 1638.7 | 4.9 | | | |
| FM | (30°-60°) | 14851.6 | 44.2 | | | |
| FH | (60°-80°) | 15816.2 | 47.0 | | | G5 |
| FVH | (80°-90°) | 1203.9 | 3.6 | | | G5 |
| BL | (0°-30°) | 28.9 | 0.1 | B0/110 | | |
| BM | (30°-60°) | 27.7 | 0.1 | B0/220 | | |
| BH | (60°-80°) | 57.5 | 0.2 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 5.5 | 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-G5**
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P1063895
CATALOG NUMBER: GLAN-SA6C-740-U-T4BC

**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 184.4 | 184.4 | 184.4 | 184.4 | 184.4 | *184.4* | 184.4 | 184.4 | 184.4 | 184.4 | 184.4 |
| 2.5° | 211.7 | 211.7 | 211.7 | 204.9 | 204.9 | *202.6* | 200.3 | 200.3 | 195.8 | 193.5 | 189.0 |
| 5° | 321.0 | 314.2 | 298.2 | 289.1 | 270.9 | *259.5* | 248.1 | 232.2 | 216.3 | 204.9 | 191.2 |
| 7.5° | 726.2 | 742.2 | 689.8 | 591.9 | 491.7 | *448.5* | 375.6 | 302.8 | 250.4 | 216.3 | 193.5 |
| 10° | 1850.8 | 1841.7 | 1664.2 | 1468.4 | 1133.7 | *999.4* | 783.1 | 494.0 | 323.3 | 236.8 | 195.8 |
| 12.5° | 3148.5 | 3139.4 | 2929.9 | 2663.6 | 2221.9 | *1941.9* | 1532.1 | 922.0 | 464.4 | 268.6 | 195.8 |
| 15° | 4239.0 | 4202.5 | 4136.5 | 3872.4 | 3355.7 | *3121.2* | 2579.3 | 1630.0 | 751.3 | 323.3 | 200.3 |
| 17.5° | 4960.6 | 4928.8 | 4867.3 | 4771.7 | 4443.8 | *4166.1* | 3731.3 | 2561.1 | 1215.7 | 418.9 | 209.4 |
| 20° | 5623.1 | 5600.3 | 5550.3 | 5532.0 | 5320.3 | *5172.3* | 4812.6 | 3631.1 | 1894.1 | 569.1 | 223.1 |
| 22.5° | 6533.7 | 6485.9 | 6506.4 | 6397.1 | 6190.0 | *6012.4* | 5791.6 | 4751.2 | 2722.8 | 819.6 | 248.1 |
| 25° | 7649.2 | 7626.5 | 7569.6 | 7492.2 | 7205.3 | *7050.5* | 6711.3 | 5807.5 | 3649.3 | 1147.4 | 275.5 |
| 27.5° | 8997.0 | 8971.9 | 8958.3 | 8780.7 | 8450.6 | *8282.1* | 7808.6 | 6804.6 | 4692.0 | 1607.3 | 311.9 |
| 30° | 10549.6 | 10561.0 | 10472.2 | 10244.5 | 9859.8 | *9623.0* | 9135.8 | 7849.6 | 5759.7 | 2146.8 | 350.6 |
| 32.5° | 12156.8 | 12134.1 | 11997.5 | 11728.8 | 11385.1 | *11164.3* | 10545.0 | 8994.7 | 6879.8 | 2859.4 | 396.1 |
| 35° | 13889.3 | 13846.0 | 13486.3 | 13179.0 | 12885.3 | *12607.6* | 12043.0 | 10324.2 | 7999.8 | 3658.4 | 457.6 |
| 37.5° | 15637.7 | 15435.1 | 14713.4 | 14324.1 | 14121.5 | *13893.9* | 13368.0 | 11742.5 | 9113.1 | 4550.8 | 532.7 |
| 40° | 16958.1 | 16801.0 | 15945.0 | 15227.9 | 15066.3 | *14872.8* | 14481.2 | 12967.3 | 10296.9 | 5509.3 | 623.8 |
| 42.5° | 17688.9 | 17602.4 | 16832.9 | 16124.9 | 15744.7 | *15574.0* | 15239.3 | 14037.3 | 11467.0 | 6567.9 | 755.8 |
| 45° | 18000.8 | 17866.5 | 17351.9 | 17021.8 | 16416.3 | *16134.0* | 15735.6 | 14845.5 | 12689.6 | 7769.9 | 940.2 |
| 47.5° | 17905.2 | 17827.7 | 17458.9 | 17579.6 | 17140.2 | *16700.9* | 16115.8 | 15464.7 | 13734.5 | 9149.5 | 1192.9 |
| 50° | 17304.1 | 17238.1 | 17124.3 | 17777.7 | 17723.0 | *17204.0* | 16607.5 | 15954.1 | 14588.2 | 10572.3 | 1584.5 |
| 52.5° | 16161.3 | 16134.0 | 16425.4 | 17622.9 | 18053.1 | *17647.9* | 17081.0 | 16386.7 | 15385.0 | 12058.9 | 2144.5 |
| 55° | 14688.4 | 14799.9 | 15633.1 | 17381.5 | 18221.6 | *17975.7* | 17499.9 | 16791.9 | 16024.7 | 13388.5 | 2970.9 |
| 57.5° | 14082.8 | 14112.4 | 15152.8 | 17210.8 | 18296.7 | *18264.8* | 17907.4 | 17178.9 | 16612.1 | 14451.6 | 4232.1 |
| 60° | 14790.8 | 14745.3 | 15293.9 | 17340.6 | 18447.0 | *18524.4* | 18269.4 | 17538.6 | 17122.0 | 15364.5 | 5912.2 |
| 62.5° | 16070.2 | 16045.2 | 16220.5 | 17893.8 | 18886.4 | *19043.4* | 18772.5 | 17798.2 | 17572.8 | 15965.5 | 7829.1 |
| 65° | 17213.1 | 17160.7 | 17486.3 | 18875.0 | 19658.1 | *19769.7* | 19532.9 | 18242.1 | 17770.8 | 16402.6 | 9629.9 |
| 67.5° | 17707.1 | 17695.7 | 18219.3 | 19808.4 | 20468.6 | *20589.2* | 20382.1 | 18854.5 | 17725.3 | 16541.5 | 10424.4 |
| 70° | 17481.7 | 17438.5 | 18276.2 | 20204.5 | 20926.1 | *21062.7* | 20862.4 | 19082.1 | 17231.3 | 16102.1 | 9247.4 |
| 71° | *17233.6* | *17117.5* | *18105.5* | *20177.2* | *20989.9* | *21106.0* | *20755.4* | *18875.0* | *16735.0* | *15478.3* | *8179.7* |
| 72.5° | 16464.1 | 16484.6 | 17636.5 | 19892.6 | 20837.4 | *20803.2* | 20149.8 | 18132.8 | 16136.3 | 14062.3 | 6570.2 |
| 75° | 14570.0 | 14690.6 | 16118.1 | 18697.4 | 19476.0 | *19041.2* | 18041.7 | 16714.5 | 14934.2 | 10082.9 | 4562.2 |
| 77.5° | 11906.4 | 12086.3 | 13654.8 | 16398.1 | 16177.2 | *16134.0* | 16093.0 | 14727.1 | 12753.3 | 5415.9 | 3173.5 |
| 80° | 5684.6 | 6073.9 | 8236.6 | 11706.1 | 12716.9 | *13206.3* | 12899.0 | 11867.7 | 9862.1 | 2579.3 | 1896.4 |
| 82.5° | 371.1 | 366.5 | 519.1 | 983.5 | 4145.6 | *5359.0* | 8514.3 | 8482.5 | 6875.2 | 1256.7 | 774.0 |
| 85° | 175.3 | 179.8 | 198.1 | 225.4 | 261.8 | *286.8* | 396.1 | 2322.1 | 3289.6 | 598.7 | 168.5 |
| 87.5° | 102.4 | 104.7 | 122.9 | 157.1 | 204.9 | *227.7* | 270.9 | 348.3 | 428.0 | 330.1 | 36.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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

Scaled Data Report

REPORT NUMBER: P1063895
CATALOG NUMBER: GLAN-SA6C-740-U-T4BC

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 184.4 | 184.4 | 184.4 | 184.4 | 184.4 | 184.4 | 184.4 | 184.4 | 184.4 | 184.4 | 184.4 |
| 2.5° | 186.7 | 184.4 | 177.6 | 170.7 | 163.9 | 159.4 | 157.1 | 159.4 | 159.4 | 161.6 | 161.6 |
| 5° | 186.7 | 179.8 | 168.5 | 154.8 | 145.7 | 136.6 | 132.0 | 129.8 | 132.0 | 132.0 | 132.0 |
| 7.5° | 184.4 | 173.0 | 157.1 | 141.1 | 129.8 | 118.4 | 113.8 | 111.6 | 111.6 | 113.8 | 113.8 |
| 10° | 179.8 | 168.5 | 148.0 | 129.8 | 116.1 | 102.4 | 95.6 | 88.8 | 88.8 | 88.8 | 91.1 |
| 12.5° | 177.6 | 161.6 | 136.6 | 118.4 | 100.2 | 84.2 | 70.6 | 63.7 | 66.0 | 66.0 | 66.0 |
| 15° | 173.0 | 154.8 | 129.8 | 107.0 | 84.2 | 63.7 | 52.4 | 45.5 | 47.8 | 50.1 | 47.8 |
| 17.5° | 173.0 | 152.5 | 120.7 | 93.3 | 66.0 | 47.8 | 38.7 | 34.1 | 34.1 | 36.4 | 36.4 |
| 20° | 173.0 | 148.0 | 113.8 | 79.7 | 50.1 | 36.4 | 27.3 | 25.0 | 25.0 | 29.6 | 31.9 |
| 22.5° | 177.6 | 148.0 | 104.7 | 66.0 | 41.0 | 27.3 | 20.5 | 18.2 | 20.5 | 25.0 | 27.3 |
| 25° | 184.4 | 145.7 | 95.6 | 59.2 | 34.1 | 20.5 | 15.9 | 11.4 | 13.7 | 18.2 | 20.5 |
| 27.5° | 191.2 | 143.4 | 86.5 | 52.4 | 27.3 | 15.9 | 11.4 | 9.1 | 6.8 | 9.1 | 9.1 |
| 30° | 198.1 | 143.4 | 77.4 | 43.3 | 22.8 | 11.4 | 6.8 | 4.6 | 2.3 | 0.0 | 0.0 |
| 32.5° | 202.6 | 138.9 | 70.6 | 34.1 | 18.2 | 9.1 | 4.6 | 2.3 | 0.0 | 0.0 | 0.0 |
| 35° | 207.2 | 134.3 | 61.5 | 27.3 | 13.7 | 6.8 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 211.7 | 127.5 | 52.4 | 22.8 | 11.4 | 4.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 216.3 | 118.4 | 43.3 | 20.5 | 6.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 220.8 | 111.6 | 36.4 | 15.9 | 4.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 232.2 | 107.0 | 29.6 | 13.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 252.7 | 102.4 | 27.3 | 9.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 282.3 | 97.9 | 25.0 | 6.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 323.3 | 95.6 | 22.8 | 4.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 396.1 | 93.3 | 20.5 | 4.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 521.3 | 91.1 | 20.5 | 4.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 799.1 | 86.5 | 20.5 | 4.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 1427.4 | 84.2 | 18.2 | 4.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 2488.3 | 86.5 | 18.2 | 4.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 3567.4 | 91.1 | 15.9 | 6.8 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 3052.9 | 79.7 | 15.9 | 9.1 | 4.6 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 71° | *2488.3* | *70.6* | *15.9* | *9.1* | *4.6* | *2.3* | *2.3* | *0.0* | *0.0* | *0.0* | *0.0* |
| 72.5° | 1600.4 | 54.6 | 13.7 | 9.1 | 4.6 | 4.6 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 676.1 | 45.5 | 13.7 | 9.1 | 6.8 | 4.6 | 4.6 | 2.3 | 0.0 | 0.0 | 0.0 |
| 77.5° | 289.1 | 34.1 | 13.7 | 11.4 | 9.1 | 6.8 | 6.8 | 4.6 | 2.3 | 0.0 | 0.0 |
| 80° | 109.3 | 27.3 | 15.9 | 13.7 | 11.4 | 11.4 | 9.1 | 4.6 | 2.3 | 0.0 | 0.0 |
| 82.5° | 50.1 | 22.8 | 15.9 | 13.7 | 13.7 | 11.4 | 9.1 | 6.8 | 4.6 | 0.0 | 0.0 |
| 85° | 31.9 | 20.5 | 15.9 | 13.7 | 13.7 | 11.4 | 11.4 | 6.8 | 4.6 | 0.0 | 0.0 |
| 87.5° | 25.0 | 20.5 | 15.9 | 15.9 | 13.7 | 13.7 | 9.1 | 6.8 | 2.3 | 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 |

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

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-1

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-740-U-5WQ

Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

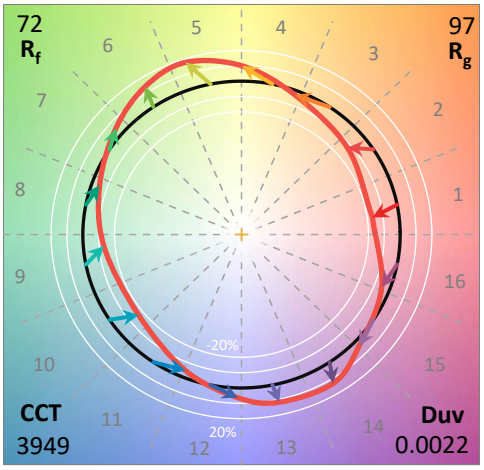
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2407-184-1 |
| 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-740-U-5WQ** |
| Description: | GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 4000K CCT 26 LEDS |

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 3949 |
| CIE u': | 0.2248 |
| CIE v': | 0.5053 |
| Duv: | 0.0022 |
| CIE x: | 0.3844 |
| CIE y: | 0.3840 |
| CIE z: | 0.2316 |
| Peak Wavelength (nm): | 440 |
| Dominant Wavelength (nm): | 578 |
| Purity: | 30.60026 |
| Rf: | 71.8 |
| Rg: | 96.5 |

| | |
|---|---|
| CRI (Ra): | 70.7 |
| R1: | 68.0 |
| R2: | 76.0 |
| R3: | 84.3 |
| R4: | 72.0 |
| R5: | 68.6 |
| R6: | 68.3 |
| R7: | 77.9 |
| R8: | 50.3 |
| R9: | -36.7 |
| R10: | 45.1 |
| R11: | 70.7 |
| R12: | 47.1 |
| R13: | 68.5 |
| R14: | 91.1 |
| R15: | 58.7 |




## Test Conditions

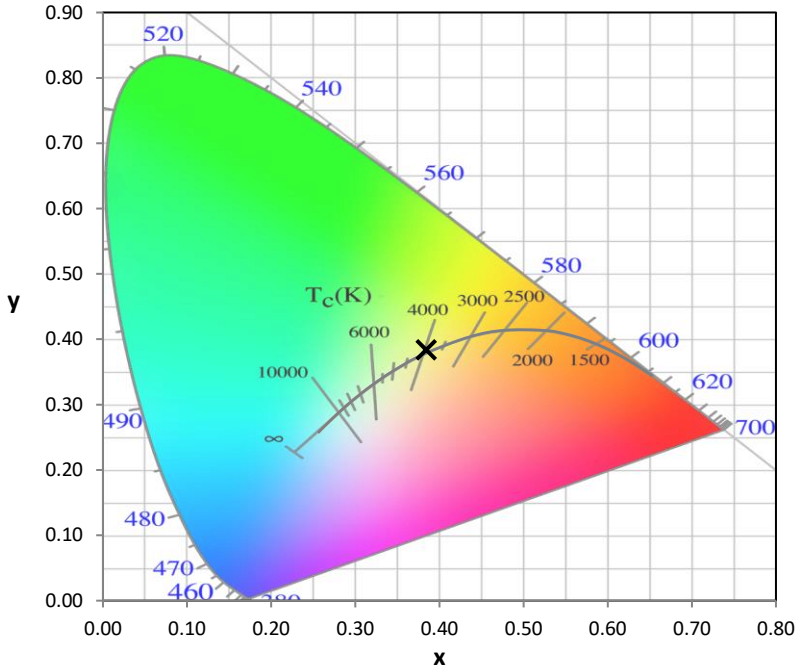
| | |
|---|---|
| Stabilization Time: | 34M |
| Operation Time: | 1H 34M |
| Sphere Temperature (°C): | 25.2 |

REPORT NUMBER: SP1-2407-184-1

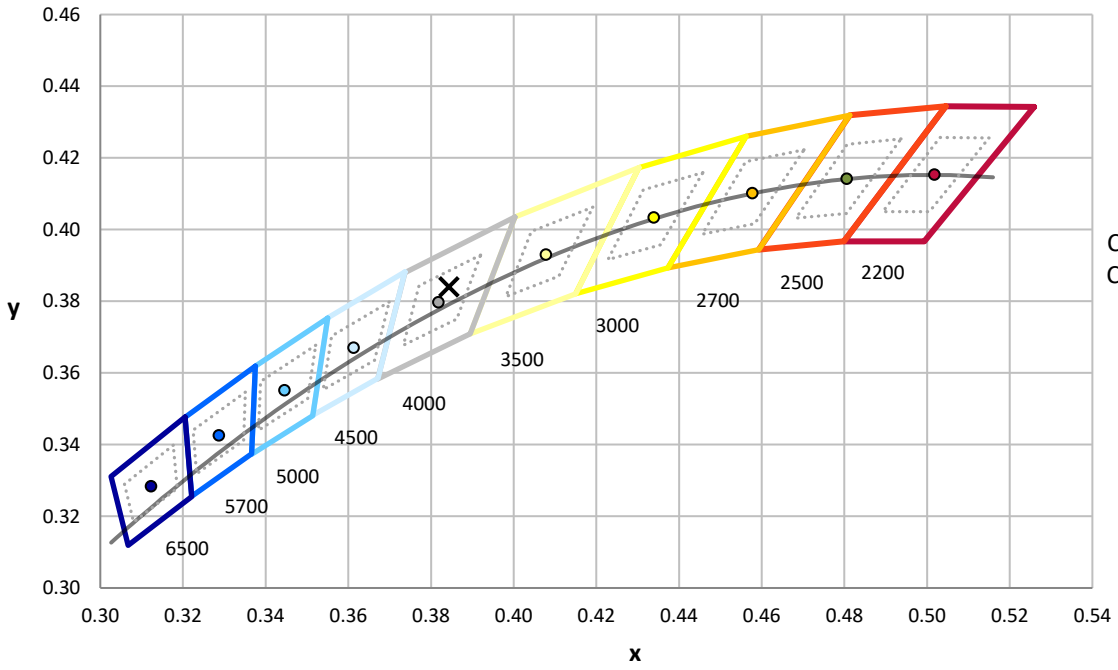
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC 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: SP1-2407-184-1

## CIE 1931 Chromaticity Diagram




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

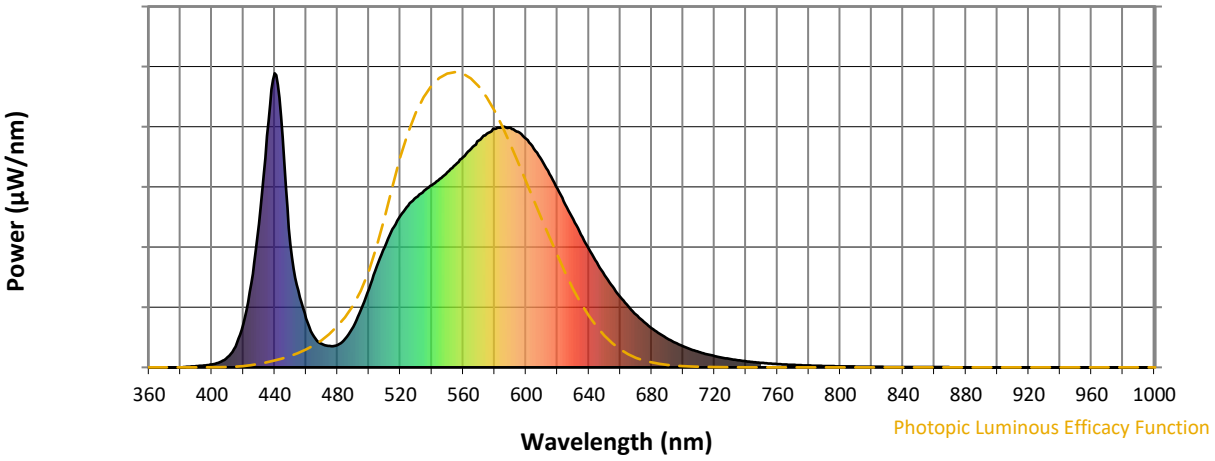



CCT = 3949K
CIE x = 0.3844
CIE y = 0.3840
Duv = 0.0022

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

## Photopic Flux vs. Wavelength

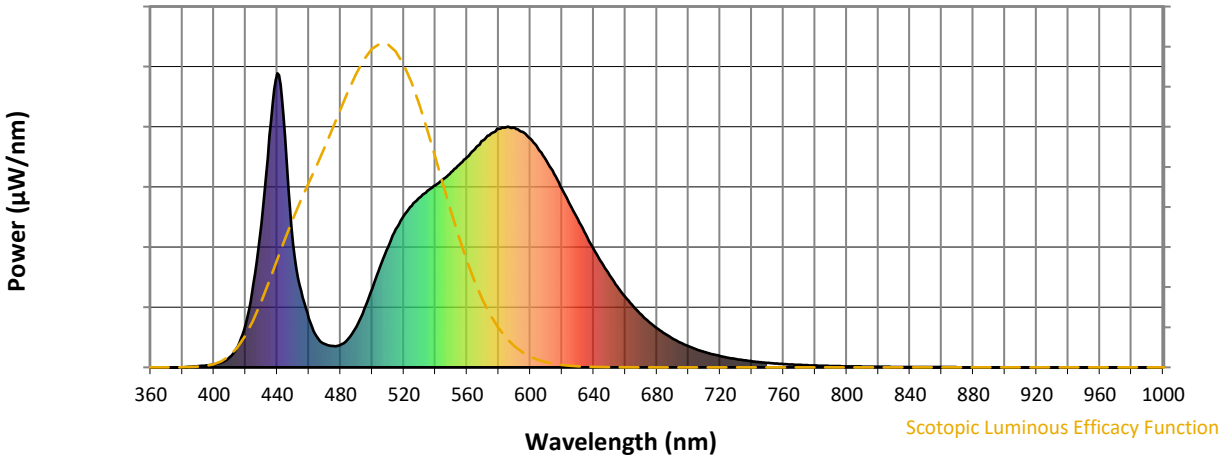



## Photopic Lumens: NR

| 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 | 139 | NR | 620 | 607 | NR | 750 | 15 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 198 | NR | 625 | 554 | NR | 755 | 13 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 267 | NR | 630 | 504 | NR | 760 | 11 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 343 | NR | 635 | 452 | NR | 765 | 10 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 410 | NR | 640 | 403 | NR | 770 | 8 | NR | 900 | 0 | NR |
| 385 | 2 | NR | 515 | 470 | NR | 645 | 357 | NR | 775 | 7 | NR | 905 | 0 | NR |
| 390 | 4 | NR | 520 | 516 | NR | 650 | 314 | NR | 780 | 6 | NR | 910 | 0 | NR |
| 395 | 7 | NR | 525 | 550 | NR | 655 | 275 | NR | 785 | 5 | NR | 915 | 0 | NR |
| 400 | 10 | NR | 530 | 578 | NR | 660 | 240 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 17 | NR | 535 | 601 | NR | 665 | 208 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 35 | NR | 540 | 620 | NR | 670 | 179 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 70 | NR | 545 | 641 | NR | 675 | 155 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 147 | NR | 550 | 664 | NR | 680 | 133 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 285 | NR | 555 | 689 | NR | 685 | 114 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 487 | NR | 560 | 715 | NR | 690 | 98 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 787 | NR | 565 | 743 | NR | 695 | 84 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 1000 | NR | 570 | 771 | NR | 700 | 72 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 783 | NR | 575 | 794 | NR | 705 | 61 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 417 | NR | 580 | 811 | NR | 710 | 52 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 261 | NR | 585 | 817 | NR | 715 | 45 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 167 | NR | 590 | 815 | NR | 720 | 39 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 104 | NR | 595 | 801 | NR | 725 | 33 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 79 | NR | 600 | 777 | NR | 730 | 28 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 73 | NR | 605 | 744 | NR | 735 | 24 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 76 | NR | 610 | 704 | NR | 740 | 21 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 98 | NR | 615 | 657 | NR | 745 | 18 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2407-184-1

## Scotopic Flux vs. Wavelength

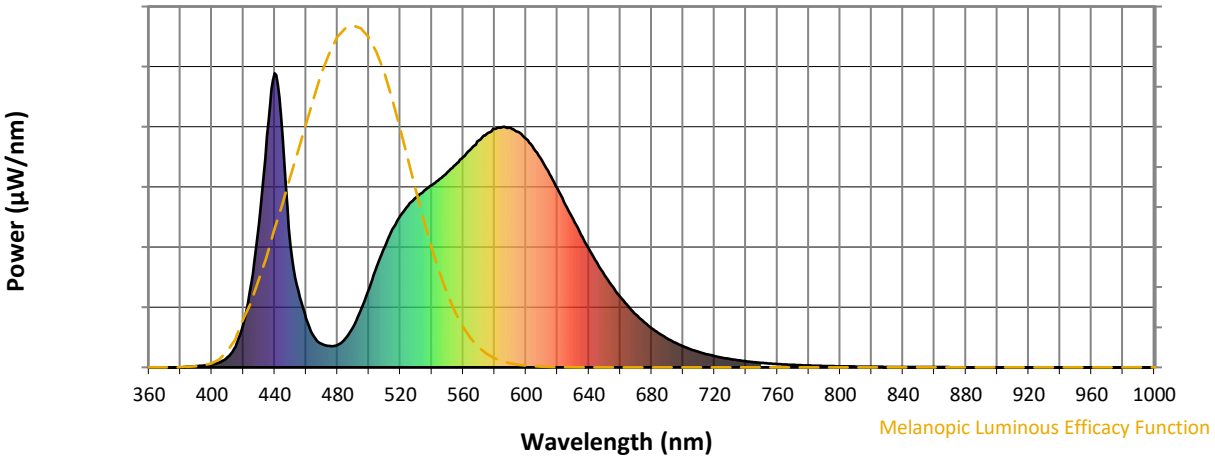



**Scotopic Lumens: NR** **S/P: 1.47**

| 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 | 139 | NR | 620 | 607 | NR | 750 | 15 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 198 | NR | 625 | 554 | NR | 755 | 13 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 267 | NR | 630 | 504 | NR | 760 | 11 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 343 | NR | 635 | 452 | NR | 765 | 10 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 410 | NR | 640 | 403 | NR | 770 | 8 | NR | 900 | 0 | NR |
| 385 | 2 | NR | 515 | 470 | NR | 645 | 357 | NR | 775 | 7 | NR | 905 | 0 | NR |
| 390 | 4 | NR | 520 | 516 | NR | 650 | 314 | NR | 780 | 6 | NR | 910 | 0 | NR |
| 395 | 7 | NR | 525 | 550 | NR | 655 | 275 | NR | 785 | 5 | NR | 915 | 0 | NR |
| 400 | 10 | NR | 530 | 578 | NR | 660 | 240 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 17 | NR | 535 | 601 | NR | 665 | 208 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 35 | NR | 540 | 620 | NR | 670 | 179 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 70 | NR | 545 | 641 | NR | 675 | 155 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 147 | NR | 550 | 664 | NR | 680 | 133 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 285 | NR | 555 | 689 | NR | 685 | 114 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 487 | NR | 560 | 715 | NR | 690 | 98 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 787 | NR | 565 | 743 | NR | 695 | 84 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 1000 | NR | 570 | 771 | NR | 700 | 72 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 783 | NR | 575 | 794 | NR | 705 | 61 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 417 | NR | 580 | 811 | NR | 710 | 52 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 261 | NR | 585 | 817 | NR | 715 | 45 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 167 | NR | 590 | 815 | NR | 720 | 39 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 104 | NR | 595 | 801 | NR | 725 | 33 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 79 | NR | 600 | 777 | NR | 730 | 28 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 73 | NR | 605 | 744 | NR | 735 | 24 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 76 | NR | 610 | 704 | NR | 740 | 21 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 98 | NR | 615 | 657 | NR | 745 | 18 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2407-184-1

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 2.78**

| 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 | 139 | NR | 620 | 607 | NR | 750 | 15 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 198 | NR | 625 | 554 | NR | 755 | 13 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 267 | NR | 630 | 504 | NR | 760 | 11 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 343 | NR | 635 | 452 | NR | 765 | 10 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 410 | NR | 640 | 403 | NR | 770 | 8 | NR | 900 | 0 | NR |
| 385 | 2 | NR | 515 | 470 | NR | 645 | 357 | NR | 775 | 7 | NR | 905 | 0 | NR |
| 390 | 4 | NR | 520 | 516 | NR | 650 | 314 | NR | 780 | 6 | NR | 910 | 0 | NR |
| 395 | 7 | NR | 525 | 550 | NR | 655 | 275 | NR | 785 | 5 | NR | 915 | 0 | NR |
| 400 | 10 | NR | 530 | 578 | NR | 660 | 240 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 17 | NR | 535 | 601 | NR | 665 | 208 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 35 | NR | 540 | 620 | NR | 670 | 179 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 70 | NR | 545 | 641 | NR | 675 | 155 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 147 | NR | 550 | 664 | NR | 680 | 133 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 285 | NR | 555 | 689 | NR | 685 | 114 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 487 | NR | 560 | 715 | NR | 690 | 98 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 787 | NR | 565 | 743 | NR | 695 | 84 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 1000 | NR | 570 | 771 | NR | 700 | 72 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 783 | NR | 575 | 794 | NR | 705 | 61 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 417 | NR | 580 | 811 | NR | 710 | 52 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 261 | NR | 585 | 817 | NR | 715 | 45 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 167 | NR | 590 | 815 | NR | 720 | 39 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 104 | NR | 595 | 801 | NR | 725 | 33 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 79 | NR | 600 | 777 | NR | 730 | 28 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 73 | NR | 605 | 744 | NR | 735 | 24 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 76 | NR | 610 | 704 | NR | 740 | 21 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 98 | NR | 615 | 657 | NR | 745 | 18 | NR | 875 | 1 | NR | | | |

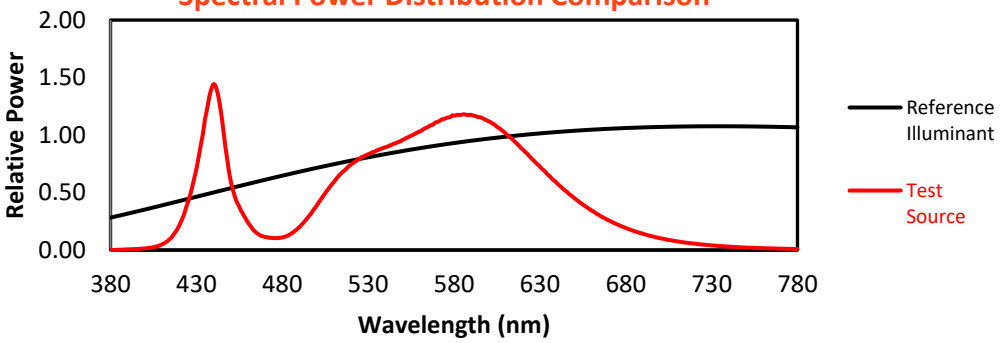
REPORT NUMBER: SP1-2407-184-1

# TM-30-18

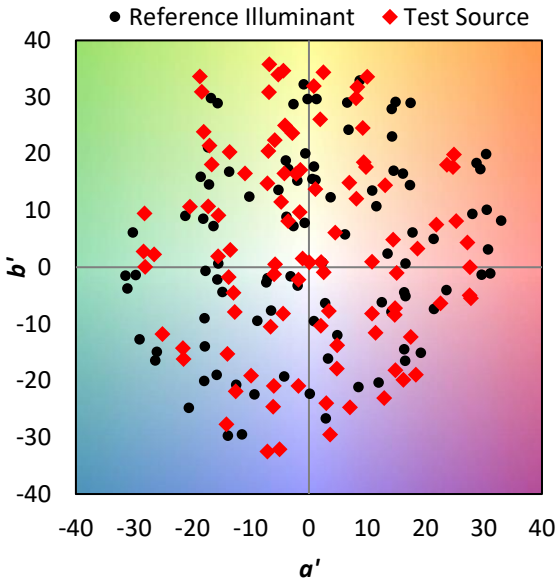
## Summary

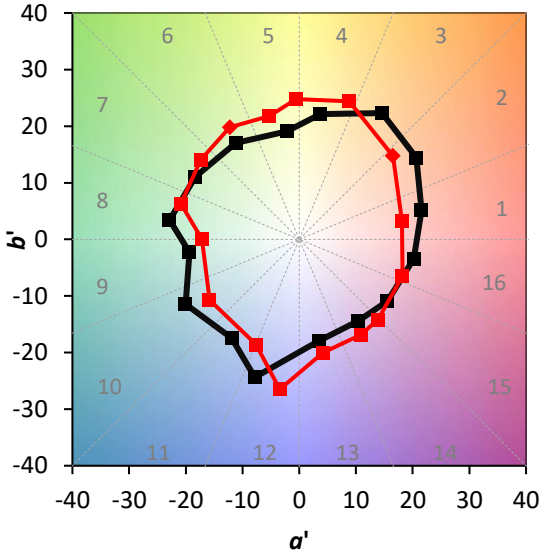
$R_f$ = 71.8
$R_g$ = 96.5
CIE $R_a$ = 70.7
$R_9$ = -36.7

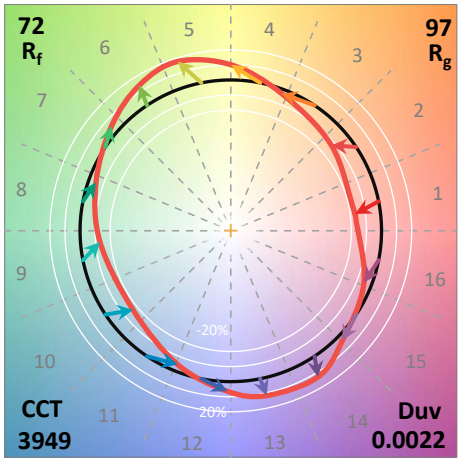
## Spectral Power Distribution Comparison

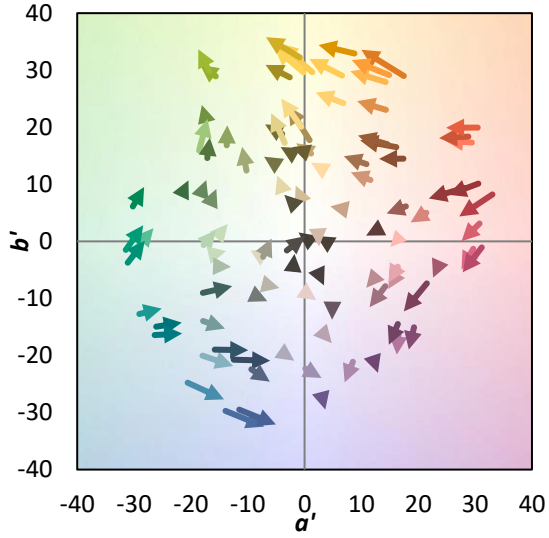



## Color Vector Graphics



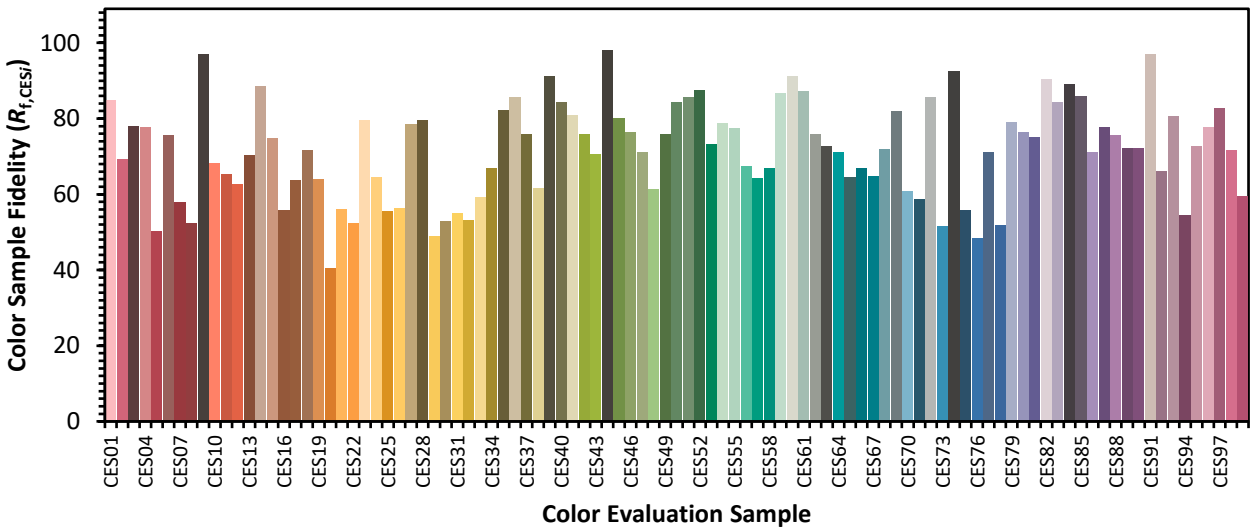



REPORT NUMBER: SP1-2407-184-1

# TM-30-18

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

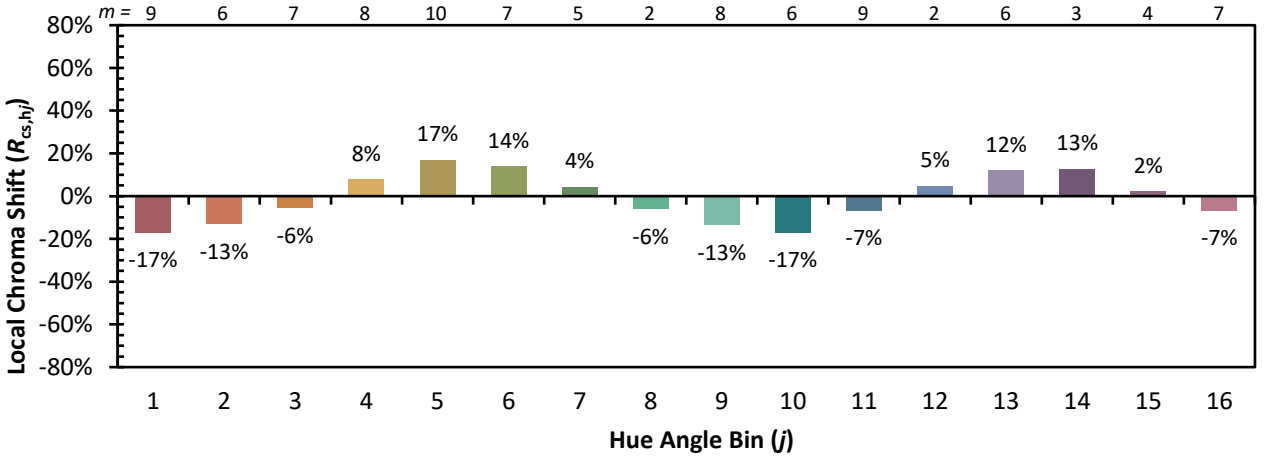
| | | | |
|---|---|---|---|
| CES01 = 85 | CES26 = 56 | CES51 = 86 | CES76 = 48 |
| CES02 = 61 | CES27 = 79 | CES52 = 88 | CES77 = 71 |
| CES03 = 30 | CES28 = 80 | CES53 = 73 | CES78 = 52 |
| CES04 = 70 | CES29 = 49 | CES54 = 79 | CES79 = 79 |
| CES05 = 47 | CES30 = 53 | CES55 = 77 | CES80 = 77 |
| CES06 = 50 | CES31 = 55 | CES56 = 67 | CES81 = 75 |
| CES07 = 40 | CES32 = 53 | CES57 = 64 | CES82 = 90 |
| CES08 = 39 | CES33 = 59 | CES58 = 67 | CES83 = 84 |
| CES09 = 29 | CES34 = 67 | CES59 = 87 | CES84 = 89 |
| CES10 = 74 | CES35 = 82 | CES60 = 91 | CES85 = 86 |
| CES11 = 57 | CES36 = 86 | CES61 = 87 | CES86 = 71 |
| CES12 = 63 | CES37 = 76 | CES62 = 76 | CES87 = 78 |
| CES13 = 42 | CES38 = 62 | CES63 = 73 | CES88 = 76 |
| CES14 = 74 | CES39 = 91 | CES64 = 71 | CES89 = 72 |
| CES15 = 71 | CES40 = 84 | CES65 = 64 | CES90 = 72 |
| CES16 = 46 | CES41 = 81 | CES66 = 67 | CES91 = 97 |
| CES17 = 49 | CES42 = 76 | CES67 = 65 | CES92 = 66 |
| CES18 = 56 | CES43 = 71 | CES68 = 72 | CES93 = 81 |
| CES19 = 72 | CES44 = 98 | CES69 = 82 | CES94 = 55 |
| CES20 = 65 | CES45 = 80 | CES70 = 61 | CES95 = 73 |
| CES21 = 86 | CES46 = 76 | CES71 = 59 | CES96 = 78 |
| CES22 = 78 | CES47 = 71 | CES72 = 86 | CES97 = 83 |
| CES23 = 92 | CES48 = 61 | CES73 = 52 | CES98 = 72 |
| CES24 = 91 | CES49 = 76 | CES74 = 93 | CES99 = 60 |
| CES25 = 72 | CES50 = 84 | CES75 = 56 | |

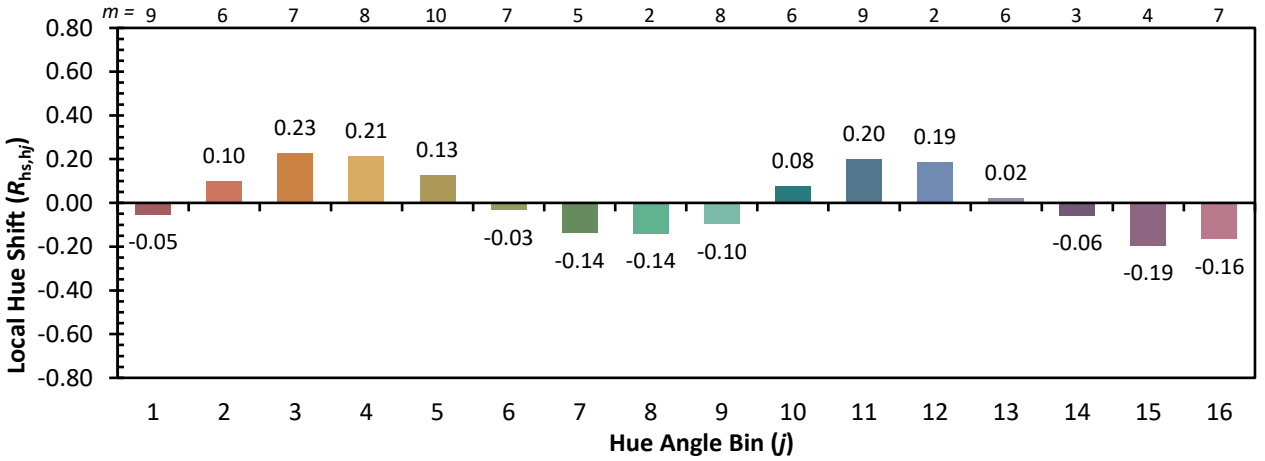


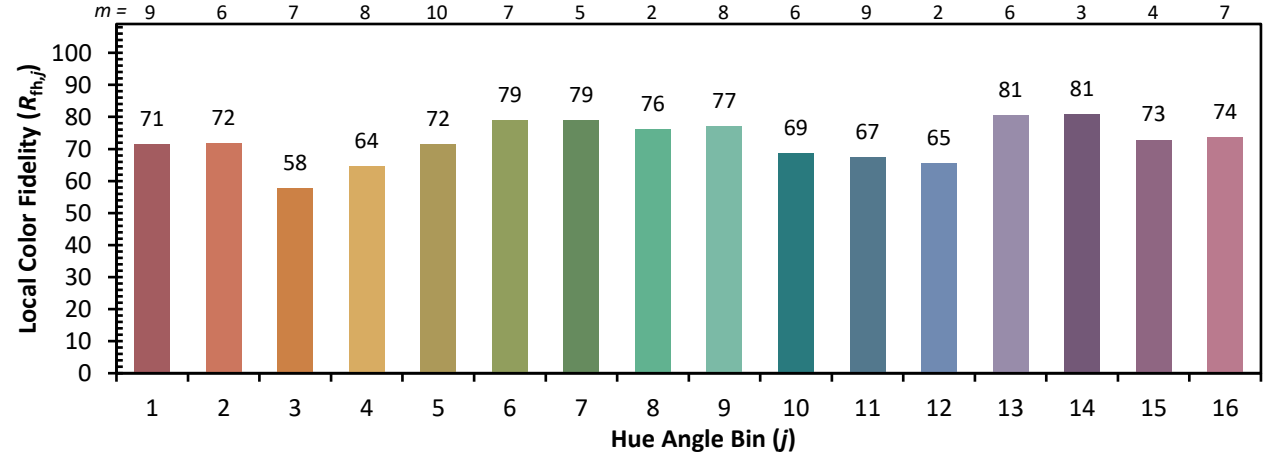
REPORT NUMBER: SP1-2407-184-1

**TM-30-18**

## Color Rendition by Hue-Angle Bin



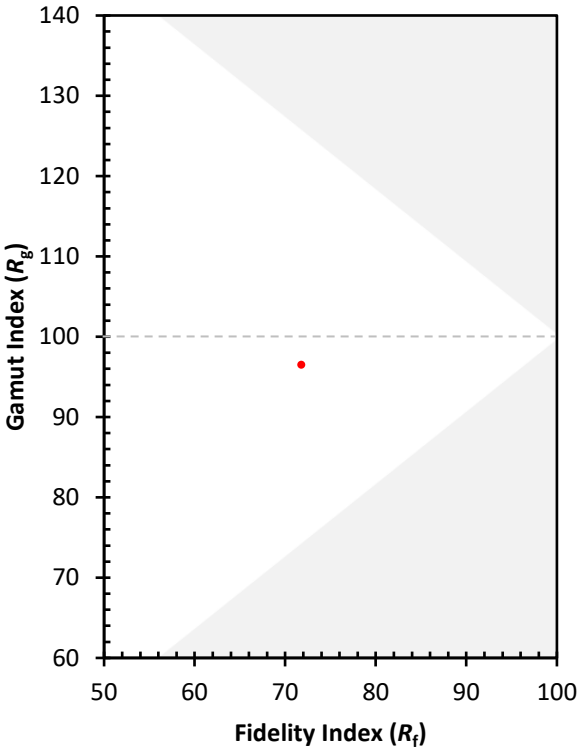



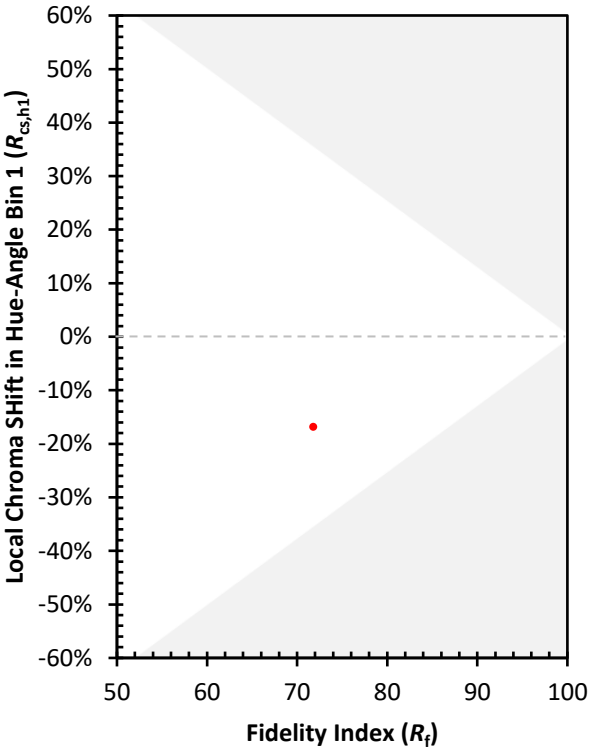



REPORT NUMBER: SP1-2407-184-1

# TM-30-18

## Measure Comparisons




(END OF REPORT)