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: P1366876

Luminaire Tested: **GSS-SB6B-727-U-T3R-HSS**

Issue Date: 02/18/2026

Report Generated By 670245763

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: | P1366876 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 02/18/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB6B-727-U-T3R-HSS |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 6SQUARE 219W 70CRI 2700K FIXTURE w/ TYPE III ROADWAY DISTRIBUTION OPTIC AND HOUSE SIDE SHIELD |
| Light Source: | (156) 2700K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 24443.2 lumens |
| Efficiency: | N/A |
| Efficacy: | 111.6 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1' x H: 0') |
| IES Classification: | Type III - Medium |
| BUG Rating: | B2 - U0 - G4 |

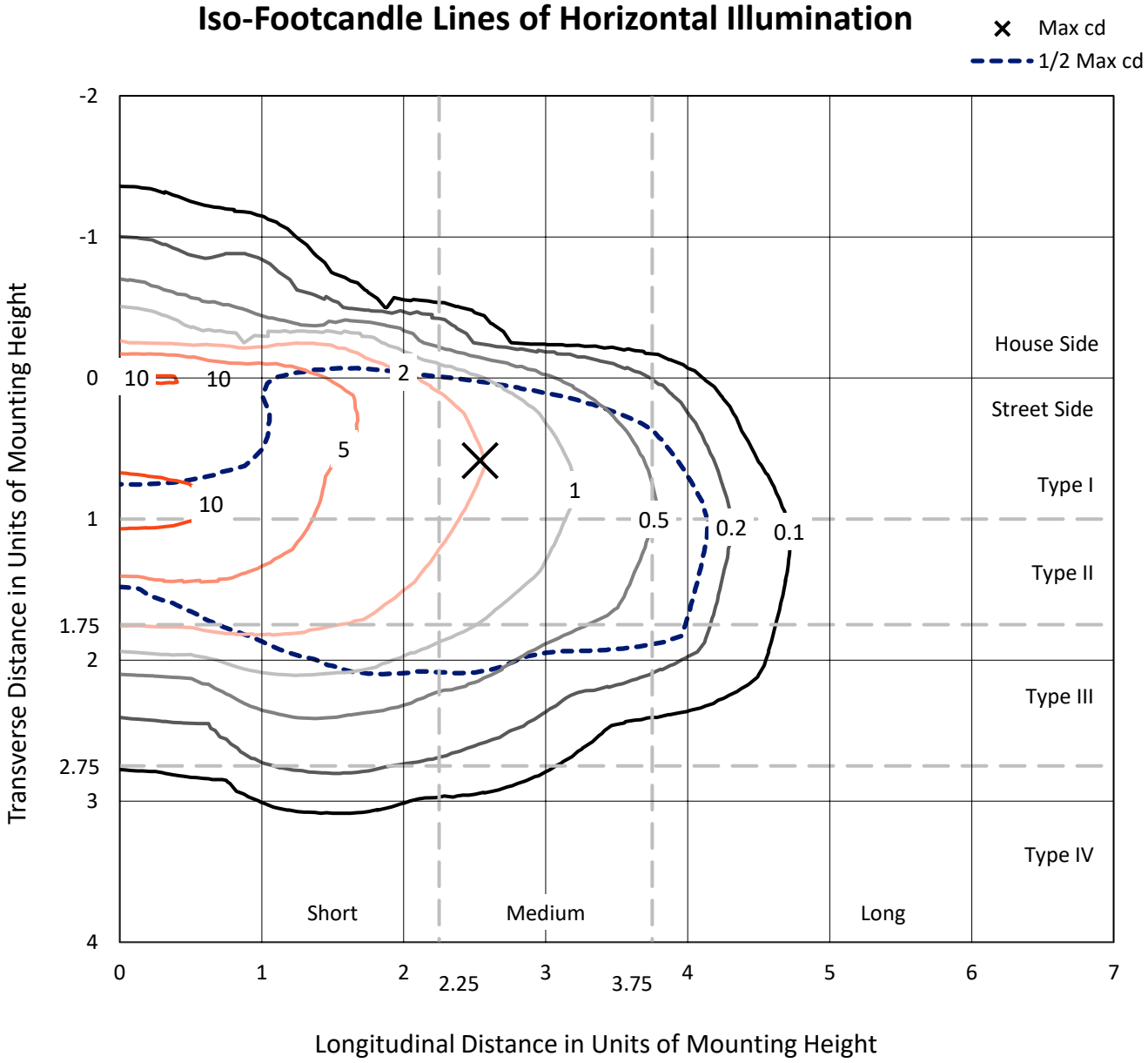
| | |
|---|---|
| Input Watts (W): | 219 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 8.7% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

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Scaled Data Report

REPORT NUMBER: P1366876
CATALOG NUMBER: GSS-SB6B-727-U-T3R-HSS

## Iso-Footcandle Lines of Horizontal Illumination



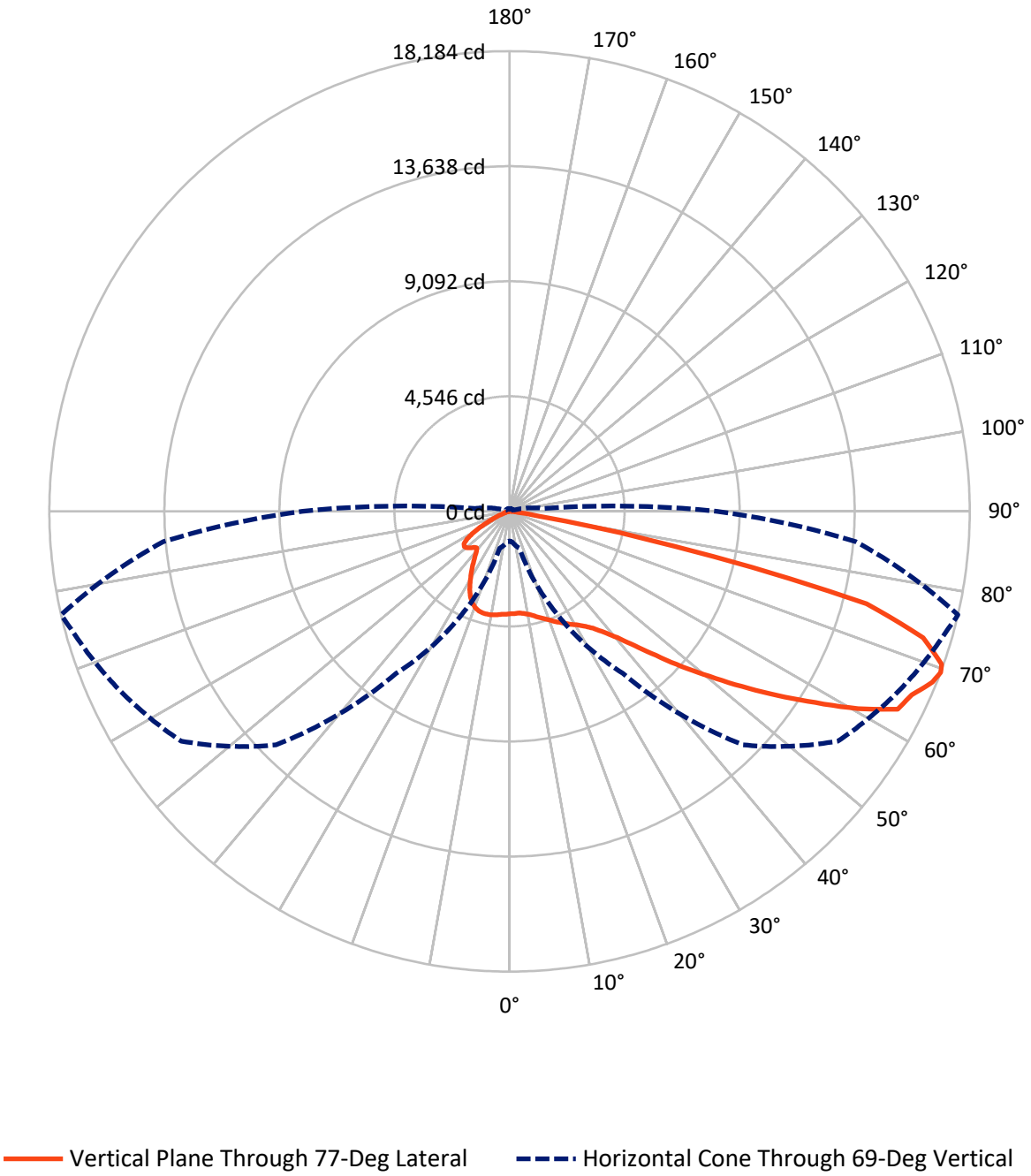

Based on 20 foot mounting height. Maximum calculated value = 11.5 fc
Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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Scaled Data Report

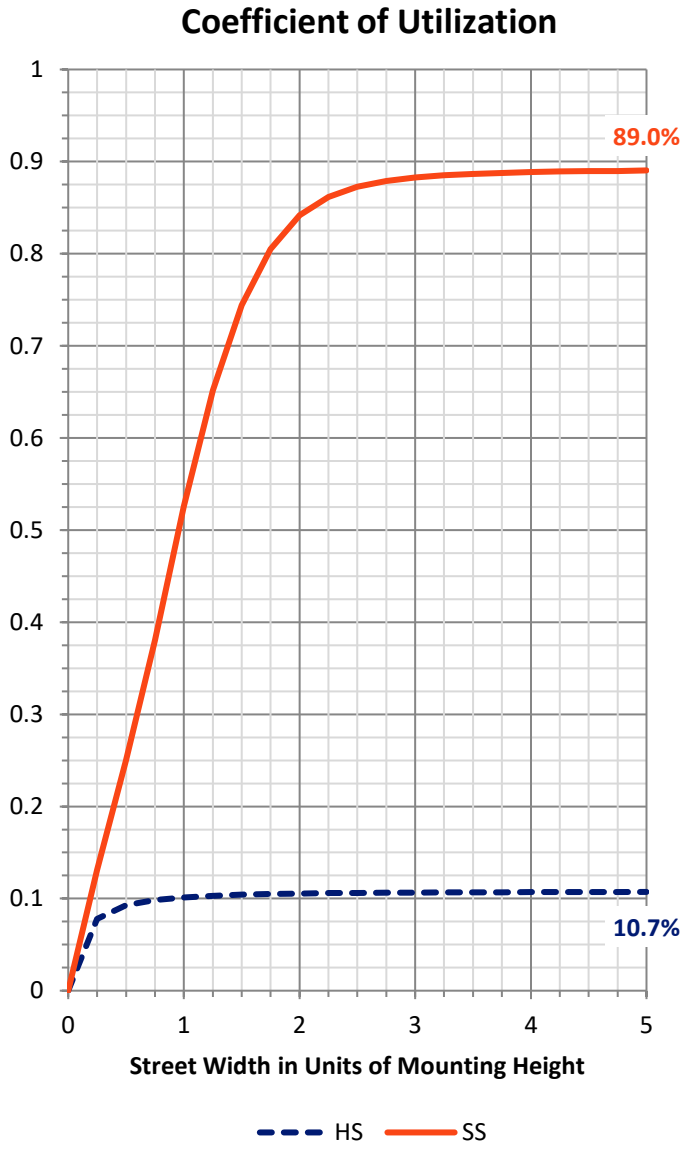
REPORT NUMBER: P1366876
CATALOG NUMBER: GSS-SB6B-727-U-T3R-HSS

**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 2642.1 | 0.0 | 2642.1 |
| | % Fixture | 10.8 | 0.0 | 10.8 |
| **Street Side** | Lumens | 21801.1 | 0.0 | 21801.1 |
| | % Fixture | 89.2 | 0.0 | 89.2 |
| **Total** | Lumens | 24443.2 | 0.0 | 24443.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 345.7 | 1.4 |
| 10°-20° | 820.8 | 3.4 |
| 20°-30° | 1266.3 | 5.2 |
| 30°-40° | 2249.5 | 9.2 |
| 40°-50° | 4345.3 | 17.8 |
| 50°-60° | 6313.4 | 25.8 |
| 60°-70° | 6058.6 | 24.8 |
| 70°-80° | 2936.0 | 12.0 |
| 80°-90° | 107.7 | 0.4 |
| 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° | 24443.2 | 100.0 |
| 0°-180° | 24443.2 | 100.0 |



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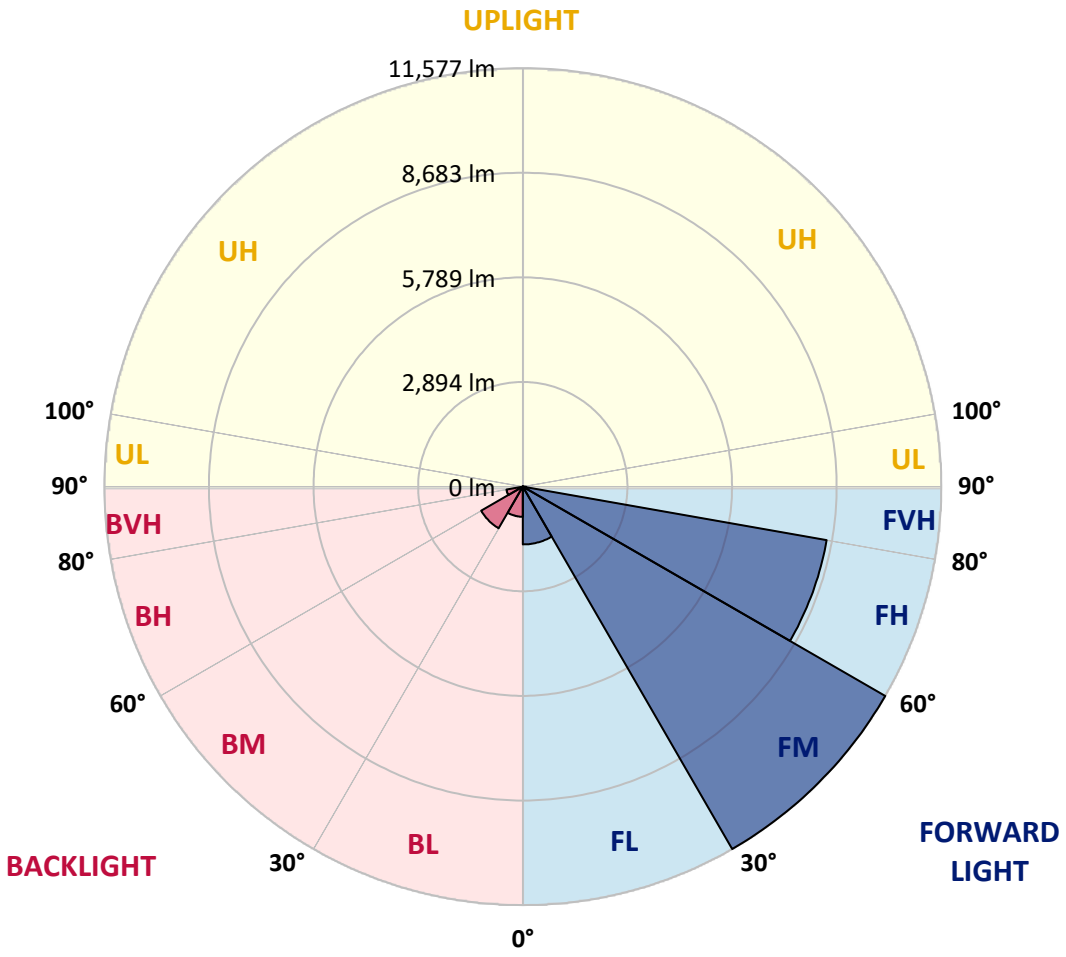
Scaled Data Report

REPORT NUMBER: P1366876
CATALOG NUMBER: GSS-SB6B-727-U-T3R-HSS

## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 1599.1 | 6.5 | | | |
| FM | (30°-60°) | 11577.3 | 47.4 | | | |
| FH | (60°-80°) | 8534.0 | 34.9 | | | G4/12000 |
| FVH | (80°-90°) | 90.7 | 0.4 | | | G1/100 |
| BL | (0°-30°) | 833.7 | 3.4 | B2/1000 | | |
| BM | (30°-60°) | 1330.8 | 5.4 | B2/2500 | | |
| BH | (60°-80°) | 460.6 | 1.9 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 17.0 | 0.1 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B2-U0-G4**
Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 4046.3 | 4046.3 | 4046.3 | 4046.3 | 4046.3 | 4046.3 | 4046.3 | 4046.3 | 4046.3 | 4046.3 | 4046.3 |
| 2.5° | 3890.4 | 3904.6 | 3883.3 | 3897.5 | 3918.7 | 3932.9 | 3968.3 | 3982.5 | 4032.1 | 4046.3 | 4060.5 |
| 5° | 3699.1 | 3713.2 | 3713.2 | 3741.6 | 3777.0 | 3819.5 | 3876.2 | 3932.9 | 4025.0 | 4032.1 | 4095.9 |
| 7.5° | 3472.3 | 3465.2 | 3486.5 | 3543.2 | 3614.0 | 3720.3 | 3819.5 | 3918.7 | 4053.4 | 4074.6 | 4188.0 |
| 10° | 3181.8 | 3181.8 | 3224.3 | 3302.2 | 3415.6 | 3592.8 | 3762.8 | 3911.7 | 4088.8 | 4138.4 | 4287.2 |
| 12.5° | 3018.8 | 3025.9 | 3047.1 | 3110.9 | 3273.9 | 3479.4 | 3706.1 | 3947.1 | 4180.9 | 4230.5 | 4436.0 |
| 15° | 2955.0 | 2962.1 | 2990.4 | 3054.2 | 3181.8 | 3422.7 | 3692.0 | 3989.6 | 4280.1 | 4343.9 | 4591.9 |
| 17.5° | 2962.1 | 2955.0 | 2976.3 | 3025.9 | 3153.4 | 3387.3 | 3706.1 | 4060.5 | 4386.4 | 4464.4 | 4754.9 |
| 20° | 3004.6 | 3004.6 | 3004.6 | 3040.0 | 3160.5 | 3387.3 | 3748.7 | 4159.7 | 4521.1 | 4591.9 | 4953.3 |
| 22.5° | 3082.6 | 3068.4 | 3075.5 | 3089.6 | 3203.0 | 3429.8 | 3812.4 | 4266.0 | 4655.7 | 4740.8 | 5137.6 |
| 25° | 3139.2 | 3132.2 | 3132.2 | 3160.5 | 3266.8 | 3472.3 | 3876.2 | 4429.0 | 4804.5 | 4882.5 | 5328.9 |
| 27.5° | 3493.6 | 3458.1 | 3344.7 | 3252.6 | 3337.7 | 3564.4 | 3968.3 | 4570.7 | 4960.4 | 5045.5 | 5506.1 |
| 30° | 4606.1 | 4549.4 | 4202.2 | 3706.1 | 3493.6 | 3670.7 | 4088.8 | 4719.5 | 5130.5 | 5201.4 | 5732.8 |
| 32.5° | 6278.5 | 6207.6 | 5669.1 | 4719.5 | 4010.9 | 3883.3 | 4251.8 | 4896.7 | 5321.8 | 5399.8 | 6002.1 |
| 35° | 8028.8 | 7936.7 | 7405.2 | 6328.1 | 5109.2 | 4358.1 | 4499.8 | 5123.4 | 5584.0 | 5669.1 | 6384.8 |
| 37.5° | 9318.5 | 9254.7 | 8879.2 | 7986.3 | 6519.4 | 5258.1 | 4910.8 | 5449.4 | 5952.5 | 6044.6 | 6909.2 |
| 40° | 10388.6 | 10346.0 | 10232.7 | 9488.6 | 8106.8 | 6561.9 | 5605.3 | 5952.5 | 6455.6 | 6554.9 | 7546.9 |
| 42.5° | 11324.0 | 11309.8 | 11359.4 | 11026.3 | 9885.4 | 8071.3 | 6654.1 | 6689.5 | 7143.0 | 7249.3 | 8354.8 |
| 45° | 12096.4 | 12103.4 | 12301.9 | 12464.9 | 11713.7 | 9722.4 | 7865.8 | 7568.2 | 7972.1 | 8113.8 | 9233.5 |
| 47.5° | 12854.6 | 12797.9 | 13159.3 | 13513.6 | 13244.3 | 11394.8 | 9120.1 | 8560.3 | 8992.6 | 9155.5 | 10211.4 |
| 50° | 12960.9 | 12982.2 | 13605.7 | 14193.9 | 14427.8 | 12975.1 | 10480.7 | 9672.8 | 10076.8 | 10232.7 | 11253.1 |
| 52.5° | 12358.6 | 12486.1 | 13428.6 | 14505.7 | 15122.2 | 14371.1 | 11897.9 | 10863.3 | 11224.7 | 11494.0 | 12323.1 |
| 55° | 9417.7 | 9715.4 | 12805.0 | 14165.6 | 15235.6 | 15313.6 | 13208.9 | 11997.2 | 12507.4 | 12833.3 | 13329.4 |
| 57.5° | 8191.8 | 8276.8 | 9970.5 | 13456.9 | 14852.9 | 15816.7 | 14314.4 | 13131.0 | 13896.3 | 14257.7 | 14349.8 |
| 60° | 7036.7 | 7079.2 | 8383.1 | 12330.2 | 14193.9 | 15611.2 | 15242.7 | 14456.1 | 15405.7 | 15823.8 | 15221.4 |
| 62.5° | 4138.4 | 4471.5 | 5931.3 | 9935.0 | 13371.9 | 15341.9 | 15951.3 | 15823.8 | 16837.1 | 17212.7 | 15327.7 |
| 65° | 2097.6 | 2281.8 | 3167.6 | 7362.7 | 11947.5 | 15193.1 | 16596.2 | 16596.2 | 17106.4 | 17467.8 | 14548.2 |
| 67.5° | 1360.6 | 1431.4 | 1785.8 | 5470.6 | 9283.1 | 14633.3 | 16326.9 | 16610.4 | 17623.7 | 18020.5 | 14229.3 |
| 69° | 1169.2 | 1218.8 | 1516.5 | 4535.2 | 7816.2 | 13045.9 | 15830.9 | 16915.1 | 17942.6 | 18183.5 | 13726.2 |
| 70° | 1048.8 | 1091.3 | 1381.8 | 3954.2 | 6788.7 | 11005.1 | 15547.4 | 17007.2 | 17893.0 | 18112.7 | 13216.0 |
| 72.5° | 729.9 | 737.0 | 1027.5 | 2338.5 | 4301.4 | 6994.2 | 12613.7 | 16263.1 | 17092.2 | 17092.2 | 11642.8 |
| 75° | 304.7 | 361.4 | 581.1 | 1027.5 | 1792.8 | 3876.2 | 6108.4 | 13867.9 | 14831.7 | 14576.6 | 8971.3 |
| 77.5° | 240.9 | 283.5 | 503.1 | 566.9 | 651.9 | 1601.5 | 2168.4 | 8113.8 | 7072.2 | 6675.3 | 2933.7 |
| 80° | 177.2 | 205.5 | 425.2 | 382.7 | 240.9 | 467.7 | 538.6 | 1849.5 | 1325.1 | 1162.2 | 446.4 |
| 82.5° | 77.9 | 99.2 | 326.0 | 240.9 | 134.6 | 148.8 | 198.4 | 389.7 | 382.7 | 340.1 | 184.2 |
| 85° | 42.5 | 63.8 | 141.7 | 85.0 | 56.7 | 56.7 | 77.9 | 120.5 | 106.3 | 106.3 | 77.9 |
| 87.5° | 0.0 | 0.0 | 7.1 | 7.1 | 14.2 | 21.3 | 28.3 | 42.5 | 49.6 | 49.6 | 49.6 |
| 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: P1366876
CATALOG NUMBER: GSS-SB6B-727-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 4046.3 | 4046.3 | 4046.3 | 4046.3 | 4046.3 | 4046.3 | 4046.3 | 4046.3 | 4046.3 | 4046.3 | 4046.3 |
| 2.5° | 4060.5 | 4067.6 | 4067.6 | 4046.3 | 4025.0 | 3996.7 | 3947.1 | 3918.7 | 3904.6 | 3890.4 | 3883.3 |
| 5° | 4095.9 | 4110.1 | 4074.6 | 3982.5 | 3869.1 | 3713.2 | 3571.5 | 3458.1 | 3358.9 | 3337.7 | 3316.4 |
| 7.5° | 4188.0 | 4202.2 | 4095.9 | 3862.0 | 3571.5 | 3309.3 | 3025.9 | 2827.4 | 2664.5 | 2629.0 | 2636.1 |
| 10° | 4308.5 | 4322.7 | 4103.0 | 3699.1 | 3259.7 | 2813.3 | 2423.5 | 2083.4 | 1863.7 | 1814.1 | 1750.3 |
| 12.5° | 4478.6 | 4464.4 | 4081.7 | 3493.6 | 2862.9 | 2232.2 | 1707.8 | 1339.3 | 1155.1 | 1041.7 | 1062.9 |
| 15° | 4641.5 | 4606.1 | 4039.2 | 3238.5 | 2359.7 | 1594.4 | 1077.1 | 871.6 | 807.8 | 800.8 | 800.8 |
| 17.5° | 4840.0 | 4754.9 | 3961.3 | 2905.4 | 1785.8 | 1070.0 | 814.9 | 772.4 | 758.2 | 765.3 | 758.2 |
| 20° | 5024.2 | 4868.3 | 3833.7 | 2487.3 | 1282.6 | 822.0 | 758.2 | 737.0 | 729.9 | 722.8 | 722.8 |
| 22.5° | 5222.6 | 4960.4 | 3642.4 | 2005.4 | 921.2 | 751.2 | 722.8 | 701.5 | 680.3 | 673.2 | 673.2 |
| 25° | 5414.0 | 5024.2 | 3387.3 | 1523.6 | 758.2 | 708.6 | 673.2 | 644.9 | 623.6 | 609.4 | 609.4 |
| 27.5° | 5576.9 | 5045.5 | 3068.4 | 1112.6 | 694.5 | 666.1 | 616.5 | 581.1 | 552.7 | 545.6 | 545.6 |
| 30° | 5768.3 | 5038.4 | 2678.6 | 836.2 | 651.9 | 609.4 | 552.7 | 503.1 | 481.9 | 489.0 | 489.0 |
| 32.5° | 5966.7 | 5066.7 | 2288.9 | 701.5 | 609.4 | 545.6 | 467.7 | 425.2 | 411.0 | 411.0 | 418.1 |
| 35° | 6221.8 | 5109.2 | 1920.4 | 659.0 | 566.9 | 467.7 | 396.8 | 347.2 | 340.1 | 354.3 | 354.3 |
| 37.5° | 6554.9 | 5158.8 | 1566.1 | 651.9 | 531.5 | 403.9 | 326.0 | 297.6 | 290.5 | 297.6 | 297.6 |
| 40° | 7022.6 | 5314.7 | 1233.0 | 651.9 | 503.1 | 361.4 | 276.4 | 262.2 | 262.2 | 262.2 | 262.2 |
| 42.5° | 7688.7 | 5669.1 | 1006.3 | 644.9 | 489.0 | 333.1 | 248.0 | 233.8 | 233.8 | 240.9 | 240.9 |
| 45° | 8404.4 | 6207.6 | 935.4 | 623.6 | 474.8 | 333.1 | 233.8 | 219.7 | 226.8 | 226.8 | 226.8 |
| 47.5° | 9091.8 | 6753.3 | 956.7 | 588.2 | 460.6 | 340.1 | 226.8 | 212.6 | 212.6 | 212.6 | 212.6 |
| 50° | 9701.2 | 7135.9 | 992.1 | 538.6 | 432.3 | 333.1 | 226.8 | 198.4 | 205.5 | 205.5 | 205.5 |
| 52.5° | 10339.0 | 7298.9 | 1006.3 | 467.7 | 389.7 | 318.9 | 226.8 | 191.3 | 191.3 | 198.4 | 198.4 |
| 55° | 10877.5 | 7249.3 | 949.6 | 396.8 | 340.1 | 297.6 | 212.6 | 184.2 | 184.2 | 184.2 | 184.2 |
| 57.5° | 11331.0 | 6887.9 | 772.4 | 333.1 | 290.5 | 248.0 | 198.4 | 177.2 | 177.2 | 177.2 | 177.2 |
| 60° | 11494.0 | 5980.9 | 566.9 | 283.5 | 233.8 | 205.5 | 184.2 | 170.1 | 163.0 | 163.0 | 155.9 |
| 62.5° | 10870.4 | 4613.2 | 389.7 | 240.9 | 198.4 | 177.2 | 163.0 | 155.9 | 148.8 | 134.6 | 127.6 |
| 65° | 9694.1 | 3174.7 | 283.5 | 198.4 | 170.1 | 148.8 | 148.8 | 141.7 | 120.5 | 106.3 | 99.2 |
| 67.5° | 8801.2 | 1948.7 | 226.8 | 163.0 | 141.7 | 127.6 | 127.6 | 127.6 | 113.4 | 92.1 | 92.1 |
| 69° | *8184.7* | *1353.5* | *205.5* | *148.8* | *127.6* | *113.4* | *113.4* | *120.5* | *106.3* | *85.0* | *85.0* |
| 70° | 7653.2 | 1062.9 | 191.3 | 134.6 | 113.4 | 106.3 | 106.3 | 113.4 | 99.2 | 77.9 | 77.9 |
| 72.5° | 6384.8 | 524.4 | 163.0 | 113.4 | 92.1 | 85.0 | 92.1 | 92.1 | 85.0 | 63.8 | 63.8 |
| 75° | 4655.7 | 311.8 | 134.6 | 92.1 | 70.9 | 63.8 | 77.9 | 77.9 | 63.8 | 49.6 | 49.6 |
| 77.5° | 1509.4 | 184.2 | 106.3 | 77.9 | 63.8 | 56.7 | 63.8 | 56.7 | 49.6 | 35.4 | 35.4 |
| 80° | 318.9 | 113.4 | 77.9 | 56.7 | 49.6 | 42.5 | 42.5 | 35.4 | 35.4 | 28.3 | 28.3 |
| 82.5° | 141.7 | 85.0 | 56.7 | 49.6 | 35.4 | 35.4 | 28.3 | 28.3 | 21.3 | 21.3 | 21.3 |
| 85° | 70.9 | 56.7 | 42.5 | 35.4 | 28.3 | 28.3 | 21.3 | 21.3 | 21.3 | 21.3 | 21.3 |
| 87.5° | 49.6 | 42.5 | 35.4 | 21.3 | 21.3 | 21.3 | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 |
| 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: SP1-2407-184-3

Test Date: 10/09/2024

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

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

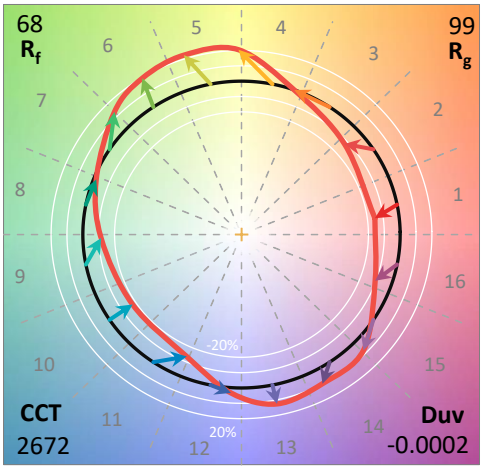
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2407-184-3 |
| 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-727-U-5WQ** |
| Description: | GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 2700K CCT 26 LEDS |

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 2672 |
| CIE u': | 0.2638 |
| CIE v': | 0.5276 |
| Duv: | -0.0002 |
| CIE x: | 0.4619 |
| CIE y: | 0.4106 |
| CIE z: | 0.1275 |
| Peak Wavelength (nm): | 601 |
| Dominant Wavelength (nm): | 584 |
| Purity: | 61.88407 |
| Rf: | 67.9 |
| Rg: | 98.6 |

| | |
|---|---|
| CRI (Ra): | 71.1 |
| R1: | 68.3 |
| R2: | 79.8 |
| R3: | 91.2 |
| R4: | 69.4 |
| R5: | 66.5 |
| R6: | 72.6 |
| R7: | 77.0 |
| R8: | 44.1 |
| R9: | -27.8 |
| R10: | 54.4 |
| R11: | 65.8 |
| R12: | 45.6 |
| R13: | 69.8 |
| R14: | 94.5 |
| R15: | 60.1 |




## Test Conditions

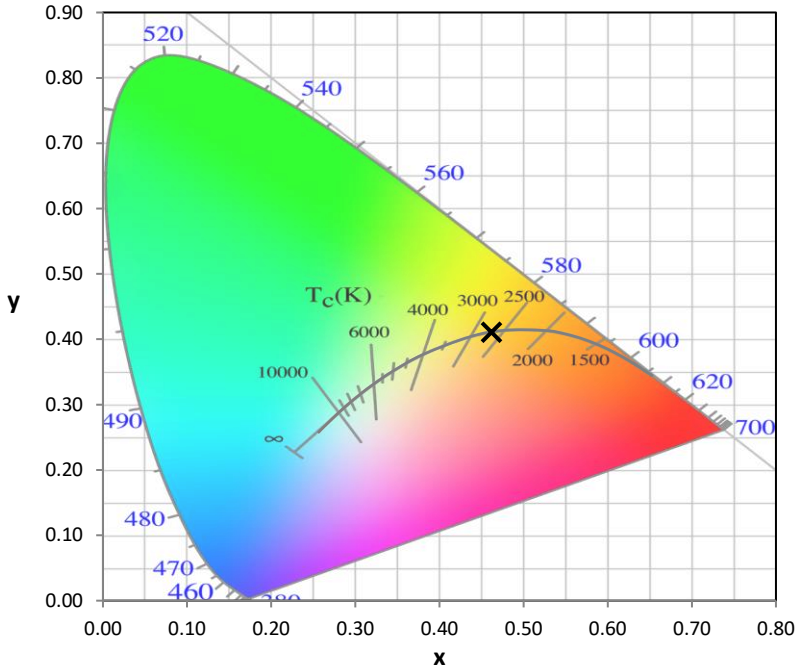
| | |
|---|---|
| Stabilization Time: | 21M |
| Operation Time: | 1H 21M |
| Sphere Temperature (°C): | 25.2 |

REPORT NUMBER: SP1-2407-184-3

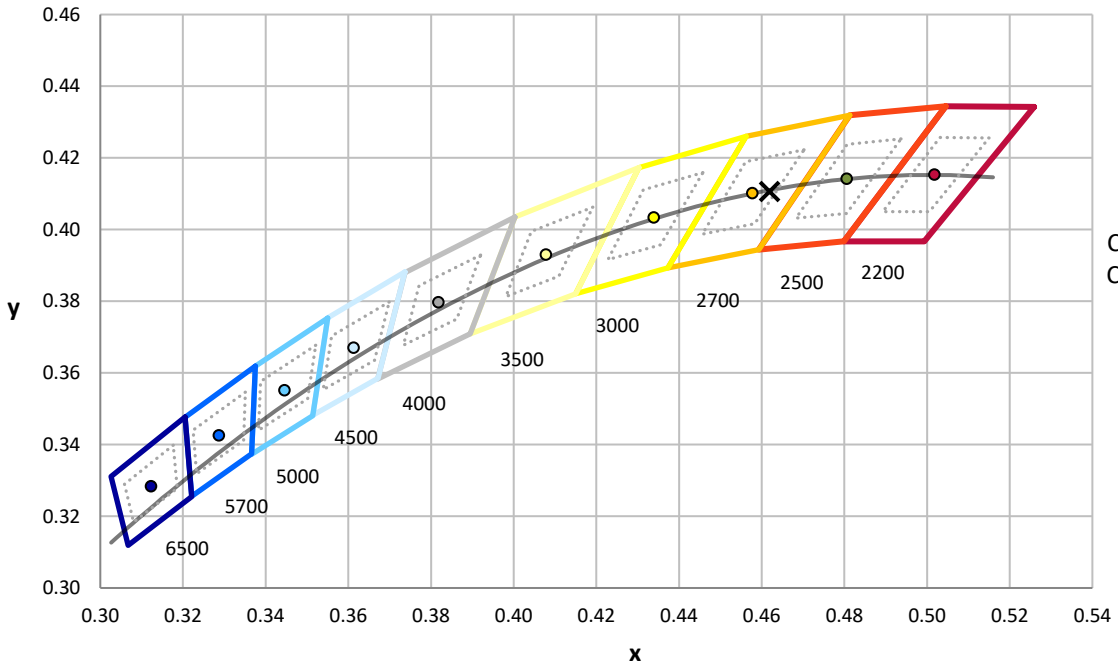
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC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

REPORT NUMBER: SP1-2407-184-3

## CIE 1931 Chromaticity Diagram




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

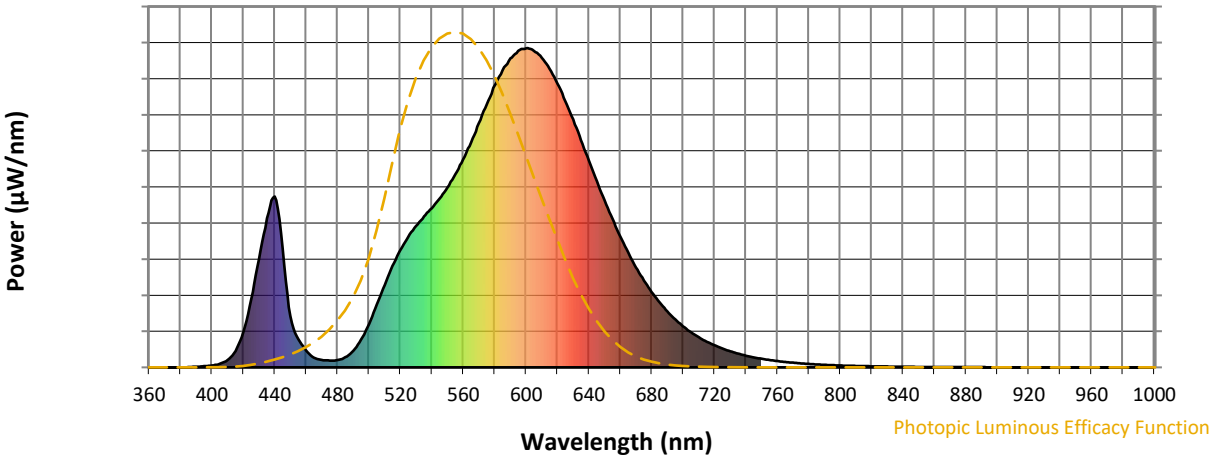



CCT = 2672K
CIE x = 0.4619
CIE y = 0.4106
Duv = -0.0002

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-3

## Photopic Flux vs. Wavelength

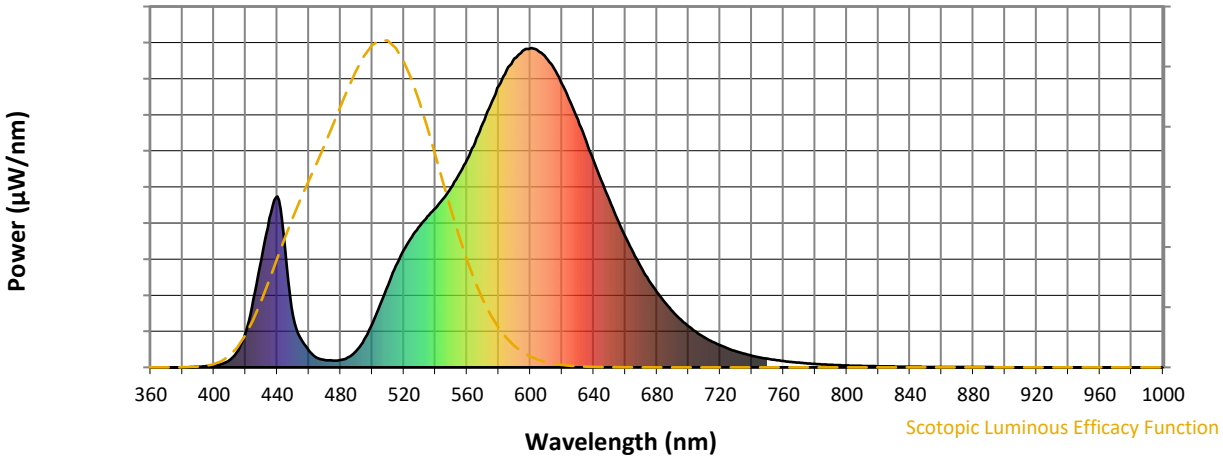



## Photopic Lumens: NR

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

REPORT NUMBER: SP1-2407-184-3

## Scotopic Flux vs. Wavelength

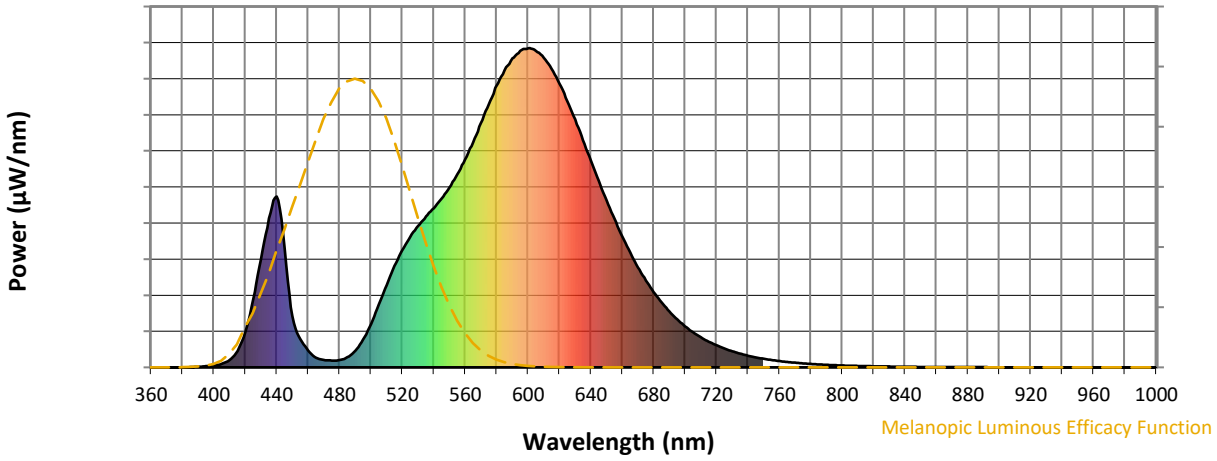



**Scotopic Lumens: NR** **S/P: 1.02**

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

REPORT NUMBER: SP1-2407-184-3

## Melanopic Flux vs. Wavelength




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

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

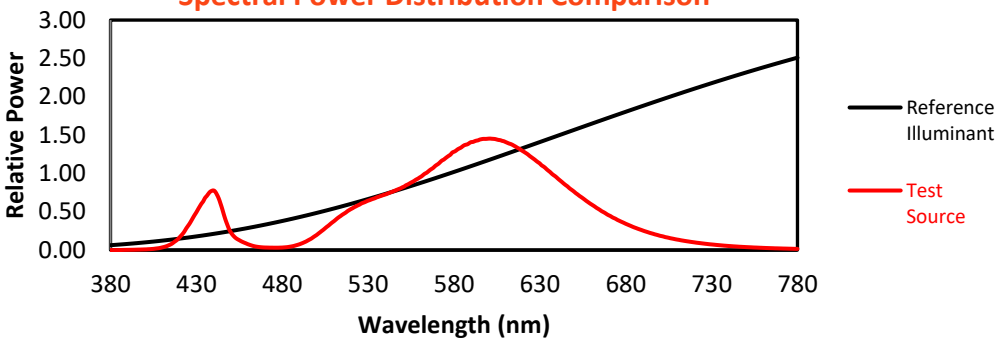
REPORT NUMBER: SP1-2407-184-3

# TM-30-18

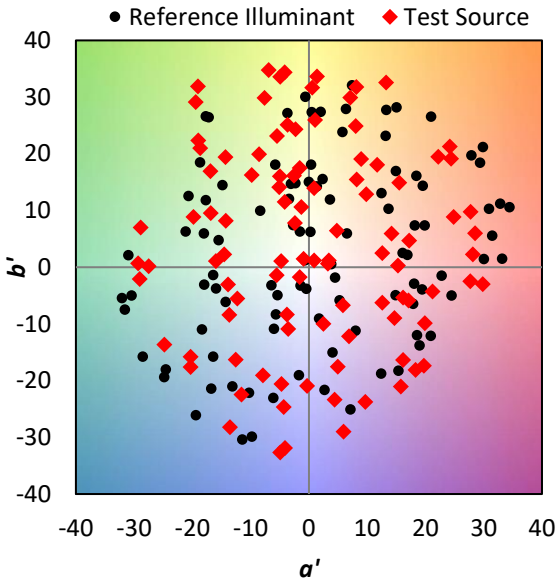
## Summary

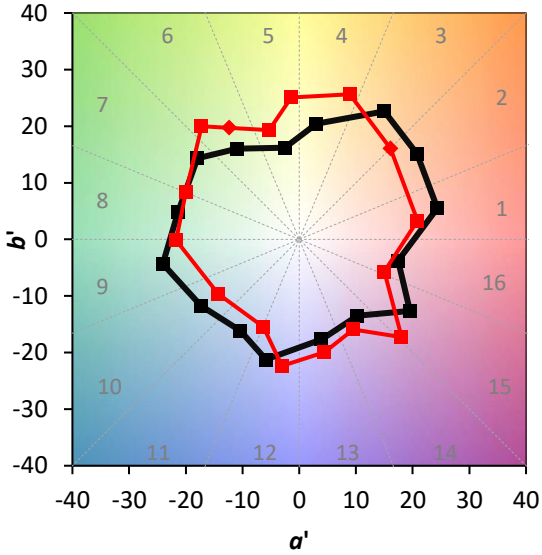
$R_f$ = 67.9
$R_g$ = 98.6
CIE $R_a$ = 71.1
$R_9$ = -27.8

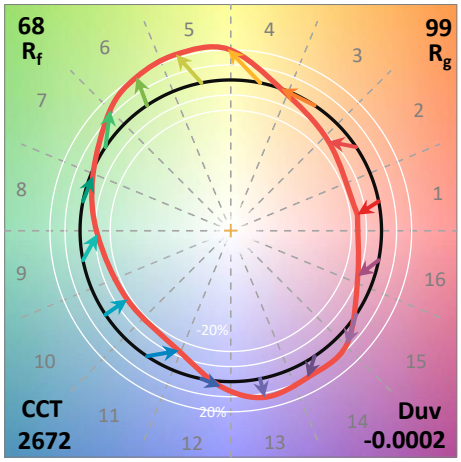
## Spectral Power Distribution Comparison

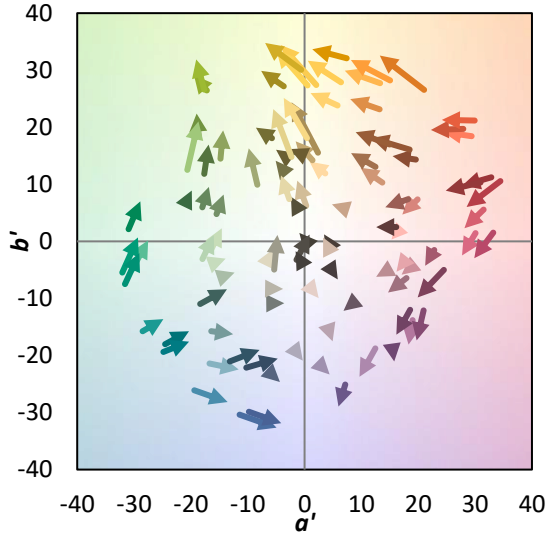



## Color Vector Graphics



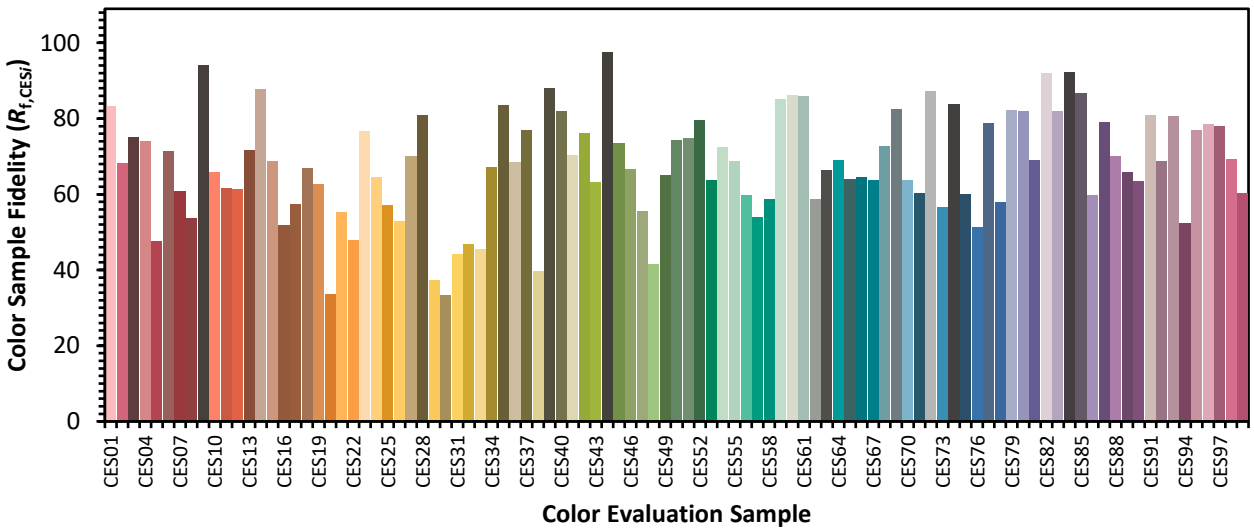



REPORT NUMBER: SP1-2407-184-3

# TM-30-18

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

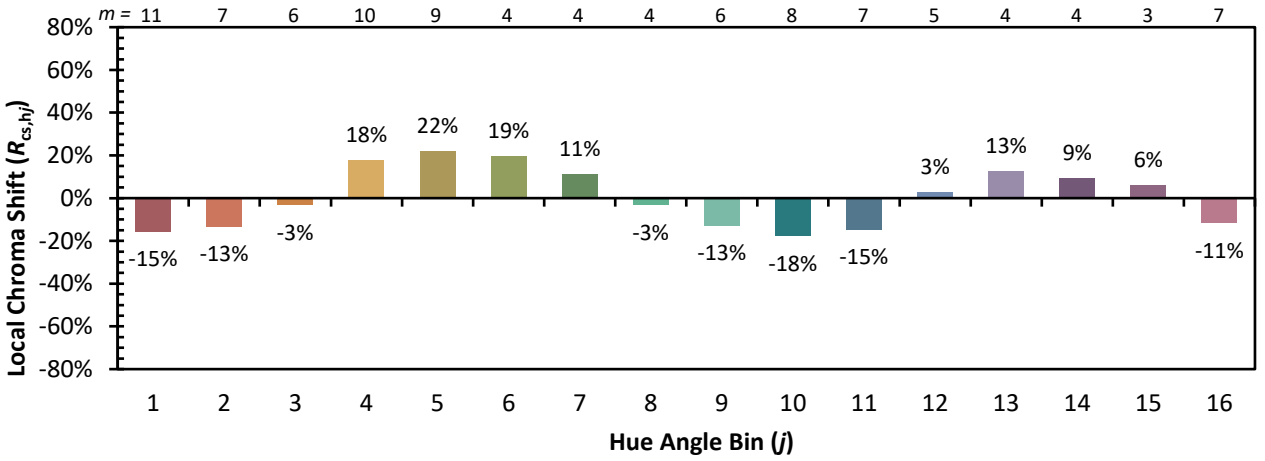
| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 53 | CES51 = 75 | CES76 = 51 |
| CES02 = 63 | CES27 = 70 | CES52 = 80 | CES77 = 79 |
| CES03 = 31 | CES28 = 81 | CES53 = 64 | CES78 = 58 |
| CES04 = 71 | CES29 = 37 | CES54 = 73 | CES79 = 82 |
| CES05 = 50 | CES30 = 33 | CES55 = 69 | CES80 = 82 |
| CES06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

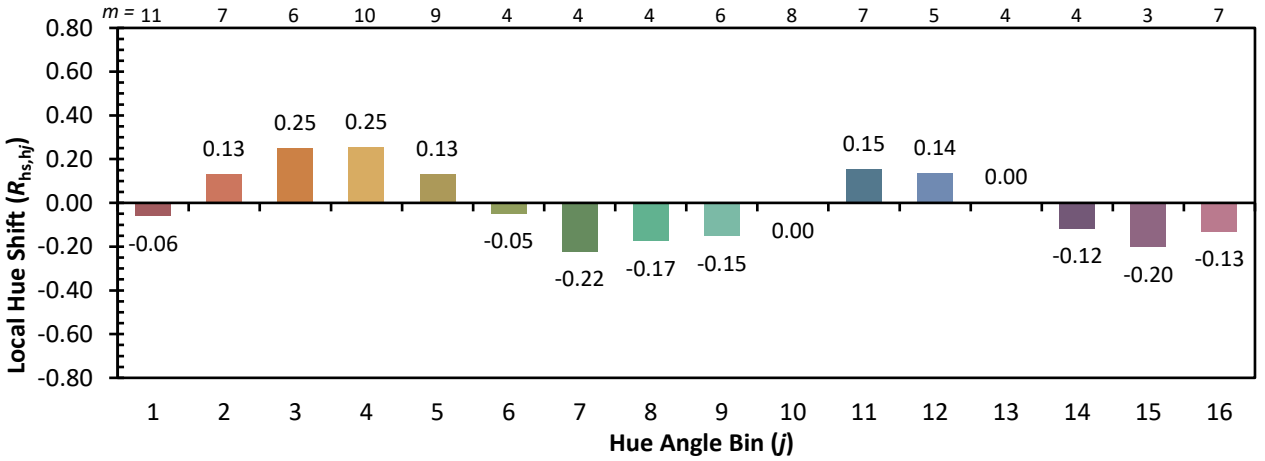


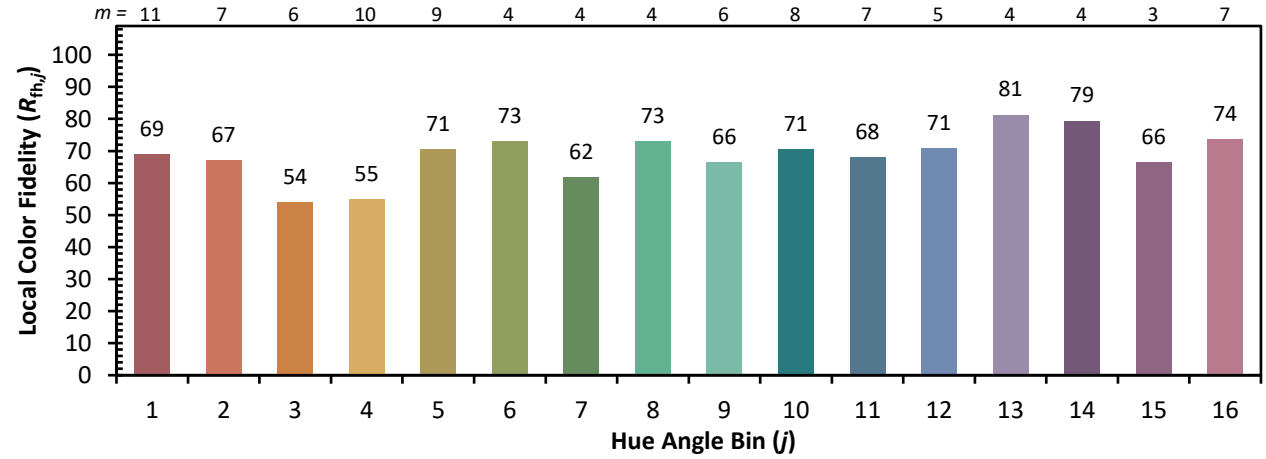
REPORT NUMBER: SP1-2407-184-3

# TM-30-18

## Color Rendition by Hue-Angle Bin



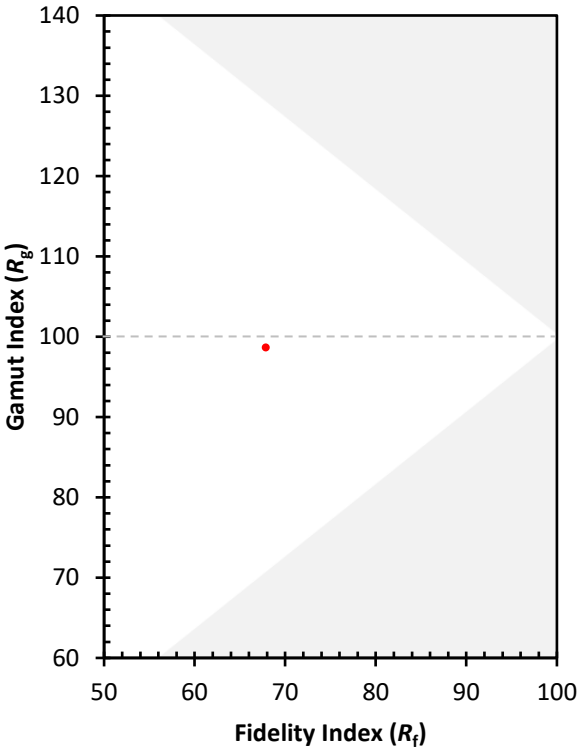



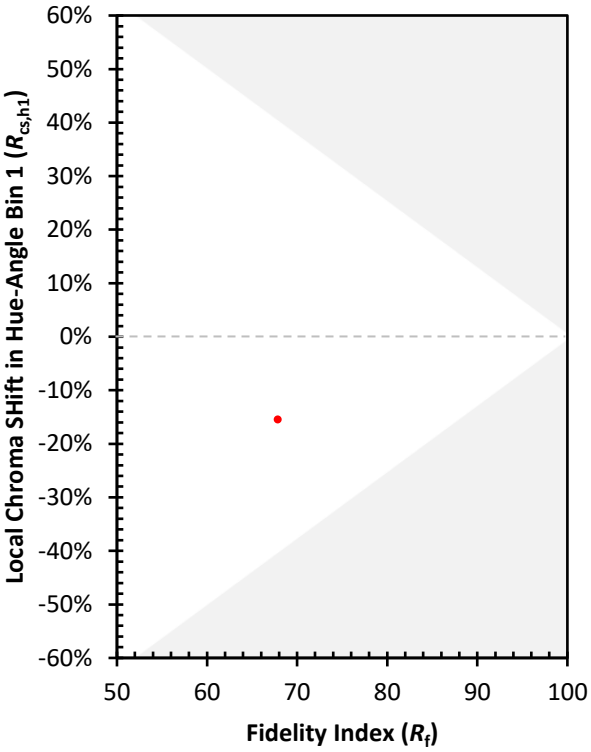



REPORT NUMBER: SP1-2407-184-3

# TM-30-18

## Measure Comparisons




(END OF REPORT)