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

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Scaled data based on original data using

LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P1704728

Luminaire Tested: GSS-SB1A-AMB-U-SLL

Issue Date: 10/28/2026

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

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-2024 |
| Report Number: | P1704728 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 10/28/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB1A-AMB-U-SLL |
| Description: | GALLEON SITE SLIM HIGH DENSITY LED ARRAYS 1SQUARE 36W 1590K FIXTURE w/ LEFT 90 DEG SPILL CONTROL DISTRIBUTION |
| Light Source: | (26) 1590K CCT, 0 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 2081.1 lumens |
| Efficiency: | N/A |
| Efficacy: | 58.0 lumens/watt |
| Luminous Opening: | Rectangular (W 0.5' x L: 0.5' x H: 0') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B1 - U0 - G1 |

| | |
|---|---|
| Input Watts (W): | 35.9 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | NR |
| Total Harmonic Distortion (THDi): | NR |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

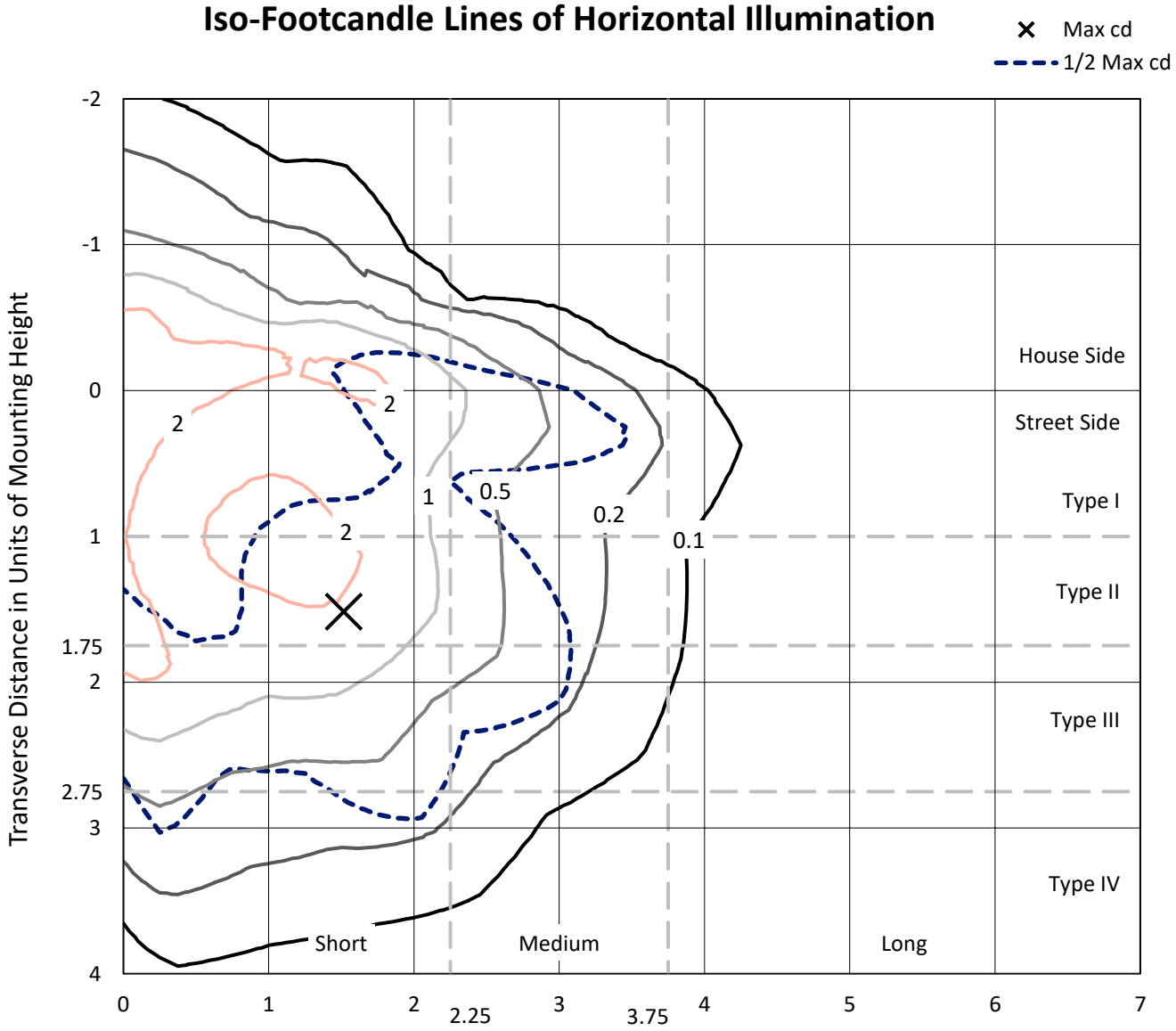


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## Iso-Footcandle Lines of Horizontal Illumination



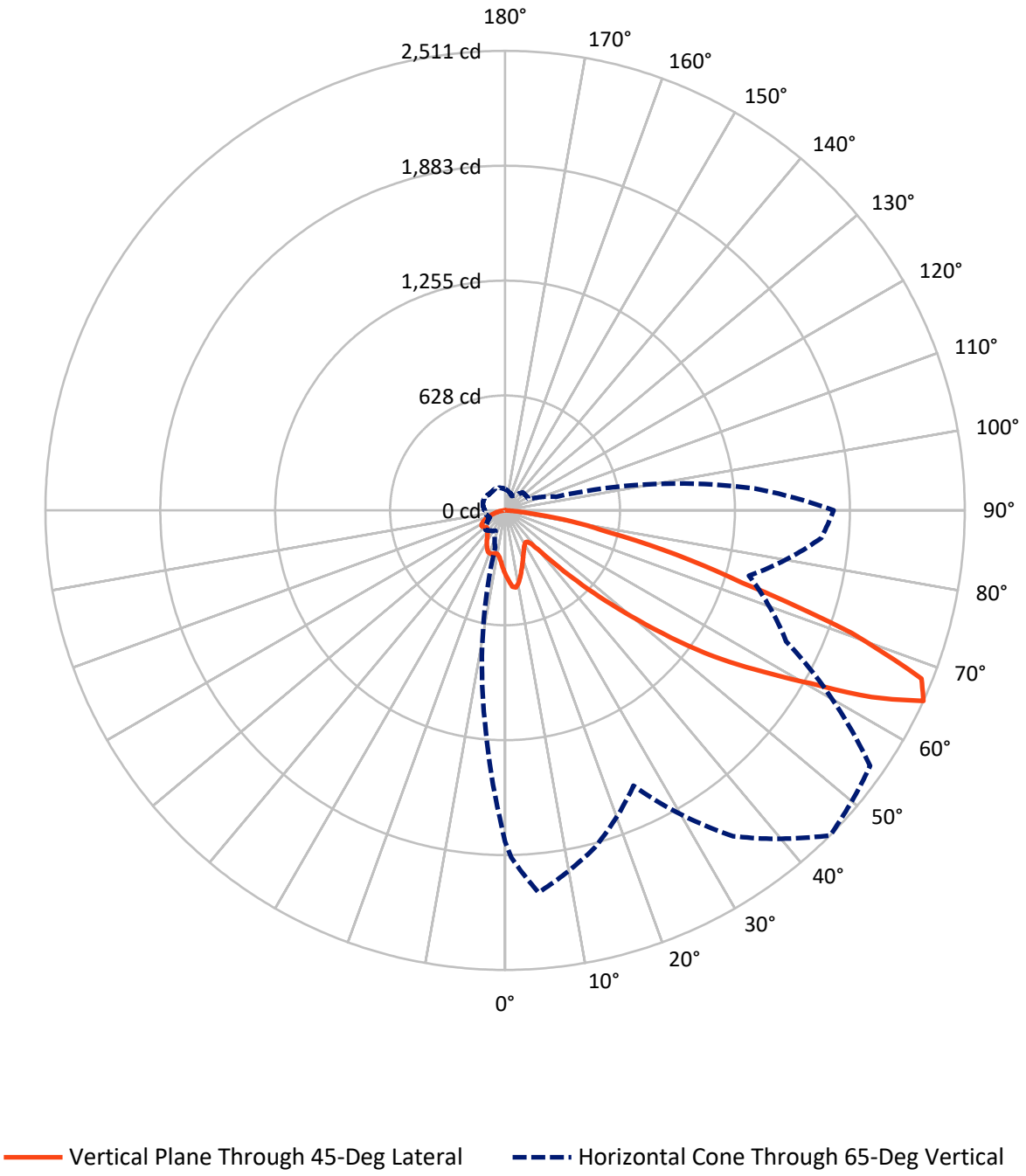

Based on 10 foot mounting height. Maximum calculated value = 4.1 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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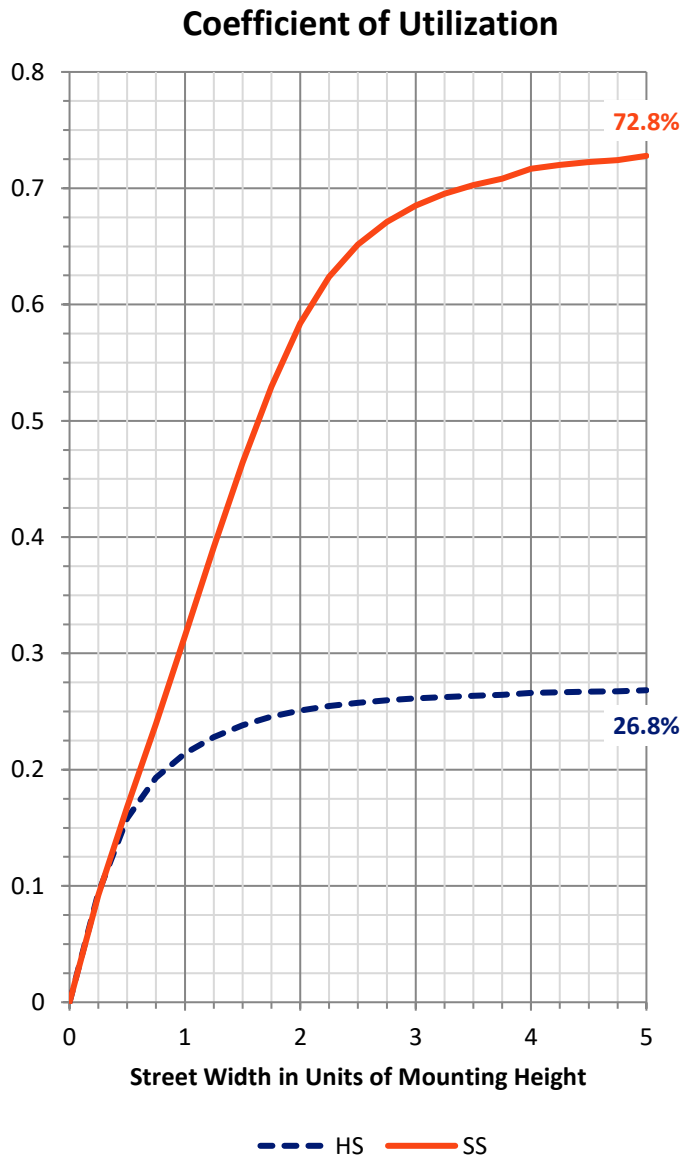
REPORT NUMBER: P1704728
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 563.6 | 0.0 | 563.6 |
| | % Fixture | 27.1 | 0.0 | 27.1 |
| **Street Side** | Lumens | 1517.5 | 0.0 | 1517.5 |
| | % Fixture | 72.9 | 0.0 | 72.9 |
| **Total** | Lumens | 2081.1 | 0.0 | 2081.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 32.8 | 1.6 |
| 10°-20° | 94.8 | 4.6 |
| 20°-30° | 143.9 | 6.9 |
| 30°-40° | 174.8 | 8.4 |
| 40°-50° | 244.2 | 11.7 |
| 50°-60° | 431.5 | 20.7 |
| 60°-70° | 604.8 | 29.1 |
| 70°-80° | 319.0 | 15.3 |
| 80°-90° | 35.3 | 1.7 |
| 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° | 2081.1 | 100.0 |
| 0°-180° | 2081.1 | 100.0 |



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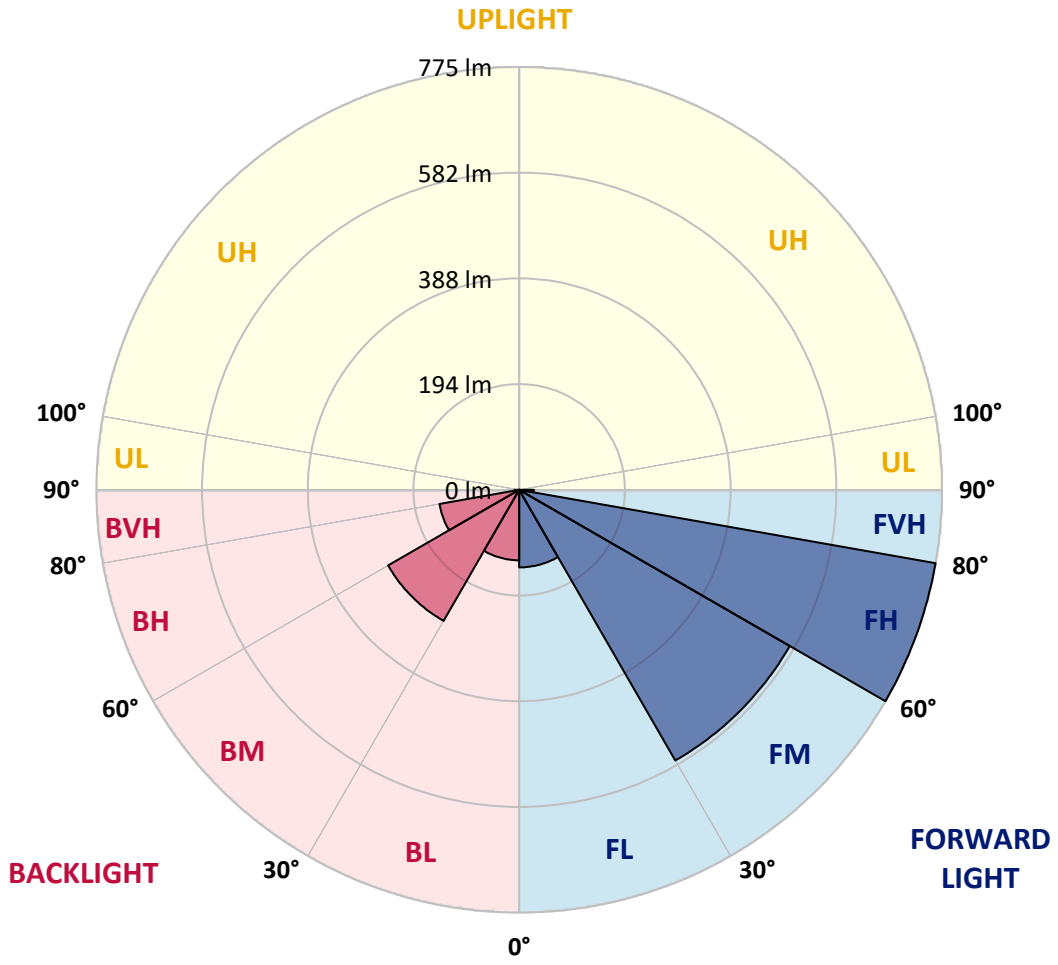
Scaled Data Report

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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°) | 142.3 | 6.8 | | | |
| FM | (30°-60°) | 573.0 | 27.5 | | | |
| FH | (60°-80°) | 775.3 | 37.3 | | | G1/1800 |
| FVH | (80°-90°) | 27.0 | 1.3 | | | G1/100 |
| BL | (0°-30°) | 129.2 | 6.2 | B1/500 | | |
| BM | (30°-60°) | 277.6 | 13.3 | B1/1000 | | |
| BH | (60°-80°) | 148.4 | 7.1 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 8.3 | 0.4 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B1-U0-G1**
Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 350.8 | 350.8 | 350.8 | 350.8 | 350.8 | 350.8 | *350.8* | 350.8 | 350.8 | 350.8 | 350.8 |
| 2.5° | 371.8 | 375.8 | 376.8 | 377.8 | 377.8 | 382.8 | *383.8* | 382.8 | 381.8 | 380.8 | 379.8 |
| 5° | 394.8 | 395.8 | 397.8 | 407.8 | 411.8 | 416.8 | *418.8* | 421.8 | 418.8 | 414.8 | 407.8 |
| 7.5° | 406.8 | 410.8 | 415.8 | 420.8 | 420.8 | 424.8 | *424.8* | 425.8 | 426.8 | 426.8 | 424.8 |
| 10° | 413.8 | 414.8 | 419.8 | 417.8 | 413.8 | 407.8 | *403.8* | 403.8 | 409.8 | 414.8 | 422.8 |
| 12.5° | 415.8 | 415.8 | 416.8 | 408.8 | 389.8 | 379.8 | *369.8* | 371.8 | 378.8 | 390.8 | 408.8 |
| 15° | 412.8 | 411.8 | 409.8 | 385.8 | 360.8 | 342.8 | *336.8* | 338.8 | 344.8 | 362.8 | 392.8 |
| 17.5° | 410.8 | 407.8 | 396.8 | 362.8 | 333.8 | 312.9 | *306.9* | 305.9 | 316.8 | 340.8 | 374.8 |
| 20° | 407.8 | 402.8 | 383.8 | 340.8 | 307.9 | 288.9 | *279.9* | 280.9 | 291.9 | 317.8 | 359.8 |
| 22.5° | 403.8 | 396.8 | 374.8 | 321.8 | 285.9 | 265.9 | *256.9* | 256.9 | 272.9 | 302.9 | 348.8 |
| 25° | 404.8 | 395.8 | 367.8 | 307.9 | 272.9 | 248.9 | *237.9* | 237.9 | 255.9 | 288.9 | 339.8 |
| 27.5° | 402.8 | 395.8 | 364.8 | 302.9 | 260.9 | 237.9 | *222.9* | 224.9 | 241.9 | 279.9 | 332.8 |
| 30° | 407.8 | 397.8 | 361.8 | 295.9 | 255.9 | 228.9 | *212.9* | 215.9 | 233.9 | 273.9 | 327.8 |
| 32.5° | 417.8 | 407.8 | 363.8 | 295.9 | 254.9 | 225.9 | *206.9* | 211.9 | 231.9 | 271.9 | 327.8 |
| 35° | 432.8 | 417.8 | 367.8 | 302.9 | 258.9 | 229.9 | *211.9* | 213.9 | 235.9 | 272.9 | 330.8 |
| 37.5° | 456.8 | 437.8 | 383.8 | 312.9 | 272.9 | 247.9 | *230.9* | 228.9 | 247.9 | 277.9 | 336.8 |
| 40° | 484.8 | 465.8 | 404.8 | 334.8 | 303.9 | 298.9 | *285.9* | 270.9 | 275.9 | 296.9 | 352.8 |
| 42.5° | 525.8 | 500.8 | 436.8 | 372.8 | 362.8 | 385.8 | *398.8* | 362.8 | 330.8 | 324.8 | 374.8 |
| 45° | 579.7 | 556.7 | 487.8 | 428.8 | 460.8 | 528.7 | *551.7* | 499.8 | 425.8 | 373.8 | 409.8 |
| 47.5° | 676.7 | 635.7 | 560.7 | 506.8 | 573.7 | 697.7 | *733.7* | 669.7 | 545.7 | 437.8 | 450.8 |
| 50° | 819.6 | 780.6 | 643.7 | 592.7 | 696.7 | 880.6 | *940.6* | 863.6 | 676.7 | 526.7 | 508.8 |
| 52.5° | 1071.5 | 1009.5 | 790.6 | 672.7 | 815.6 | 1076.5 | *1193.4* | 1067.5 | 818.6 | 610.7 | 594.7 |
| 55° | 1411.3 | 1347.4 | 1088.5 | 760.6 | 920.6 | 1249.4 | *1437.3* | 1335.4 | 952.5 | 680.7 | 771.6 |
| 57.5° | 1861.1 | 1795.1 | 1451.3 | 882.6 | 996.5 | 1389.3 | *1661.2* | 1551.3 | 1072.5 | 761.6 | 1050.5 |
| 60° | 2180.0 | 2210.9 | 1964.1 | 1064.5 | 1102.5 | 1539.3 | *1920.1* | 1804.1 | 1200.4 | 856.6 | 1484.3 |
| 62.5° | 2085.0 | 2181.0 | 2434.8 | 1587.2 | 1357.4 | 1831.1 | *2247.9* | 2139.0 | 1439.3 | 1189.4 | 1892.1 |
| 65° | *1809.1* | *1895.1* | *2096.0* | *1904.1* | *1660.2* | *2173.0* | *2510.8* | *2433.8* | *1694.2* | *1378.3* | *1733.2* |
| 67.5° | 1510.3 | 1592.2 | 1815.1 | 1477.3 | 1549.3 | 2142.0 | *2452.8* | 2385.9 | 1594.2 | 1163.4 | 1669.2 |
| 70° | 1155.5 | 1244.4 | 1483.3 | 1188.4 | 1337.4 | 1916.1 | *2009.0* | 2142.0 | 1462.3 | 1065.5 | 1568.3 |
| 72.5° | 801.6 | 915.6 | 1172.4 | 965.5 | 1036.5 | 1682.2 | *1352.4* | 1809.1 | 1268.4 | 959.5 | 1426.3 |
| 75° | 505.8 | 589.7 | 806.6 | 743.6 | 831.6 | 1104.5 | *963.5* | 1200.4 | 1051.5 | 825.6 | 1180.4 |
| 77.5° | 243.9 | 278.9 | 438.8 | 480.8 | 578.7 | 706.7 | *580.7* | 836.6 | 733.7 | 517.8 | 714.7 |
| 80° | 67.0 | 77.0 | 112.9 | 188.9 | 271.9 | 436.8 | *369.8* | 443.8 | 397.8 | 294.9 | 379.8 |
| 82.5° | 26.0 | 29.0 | 33.0 | 75.0 | 127.9 | 234.9 | *139.9* | 207.9 | 189.9 | 98.0 | 126.9 |
| 85° | 10.0 | 11.0 | 13.0 | 17.0 | 68.0 | 88.0 | *50.0* | 64.0 | 87.0 | 29.0 | 30.0 |
| 87.5° | 1.0 | 1.0 | 2.0 | 2.0 | 2.0 | 3.0 | *6.0* | 6.0 | 4.0 | 4.0 | 4.0 |
| 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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REPORT NUMBER: P1704728
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**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 350.8 | 350.8 | 350.8 | 350.8 | 350.8 | 350.8 | 350.8 | 350.8 | 350.8 | 350.8 | 350.8 |
| 2.5° | 377.8 | 375.8 | 368.8 | 364.8 | 357.8 | 349.8 | 344.8 | 335.8 | 333.8 | 326.8 | 329.8 |
| 5° | 405.8 | 398.8 | 387.8 | 373.8 | 359.8 | 343.8 | 330.8 | 316.8 | 304.9 | 293.9 | 292.9 |
| 7.5° | 419.8 | 415.8 | 401.8 | 383.8 | 361.8 | 337.8 | 321.8 | 298.9 | 284.9 | 272.9 | 269.9 |
| 10° | 422.8 | 419.8 | 406.8 | 388.8 | 367.8 | 342.8 | 319.8 | 293.9 | 272.9 | 258.9 | 253.9 |
| 12.5° | 411.8 | 417.8 | 408.8 | 391.8 | 368.8 | 349.8 | 328.8 | 306.9 | 279.9 | 257.9 | 249.9 |
| 15° | 402.8 | 411.8 | 411.8 | 391.8 | 370.8 | 352.8 | 339.8 | 325.8 | 306.9 | 276.9 | 263.9 |
| 17.5° | 394.8 | 409.8 | 418.8 | 396.8 | 372.8 | 350.8 | 342.8 | 348.8 | 346.8 | 313.9 | 290.9 |
| 20° | 387.8 | 409.8 | 421.8 | 399.8 | 366.8 | 338.8 | 333.8 | 359.8 | 383.8 | 355.8 | 322.8 |
| 22.5° | 378.8 | 407.8 | 429.8 | 398.8 | 355.8 | 315.8 | 318.8 | 355.8 | 386.8 | 376.8 | 346.8 |
| 25° | 373.8 | 408.8 | 436.8 | 401.8 | 335.8 | 284.9 | 296.9 | 335.8 | 364.8 | 367.8 | 340.8 |
| 27.5° | 368.8 | 413.8 | 451.8 | 401.8 | 314.9 | 263.9 | 280.9 | 305.9 | 331.8 | 336.8 | 315.8 |
| 30° | 371.8 | 418.8 | 468.8 | 404.8 | 293.9 | 250.9 | 265.9 | 283.9 | 297.9 | 295.9 | 279.9 |
| 32.5° | 373.8 | 434.8 | 499.8 | 412.8 | 271.9 | 243.9 | 254.9 | 266.9 | 268.9 | 264.9 | 248.9 |
| 35° | 379.8 | 453.8 | 523.8 | 425.8 | 259.9 | 235.9 | 243.9 | 245.9 | 246.9 | 240.9 | 229.9 |
| 37.5° | 389.8 | 472.8 | 548.7 | 421.8 | 260.9 | 231.9 | 228.9 | 225.9 | 221.9 | 221.9 | 211.9 |
| 40° | 408.8 | 502.8 | 574.7 | 406.8 | 258.9 | 225.9 | 210.9 | 204.9 | 199.9 | 200.9 | 195.9 |
| 42.5° | 437.8 | 544.7 | 606.7 | 376.8 | 250.9 | 219.9 | 194.9 | 183.9 | 178.9 | 181.9 | 184.9 |
| 45° | 473.8 | 592.7 | 642.7 | 343.8 | 231.9 | 209.9 | 177.9 | 167.9 | 162.9 | 165.9 | 171.9 |
| 47.5° | 516.8 | 656.7 | 670.7 | 299.9 | 211.9 | 191.9 | 161.9 | 150.9 | 146.9 | 154.9 | 162.9 |
| 50° | 586.7 | 760.6 | 705.7 | 263.9 | 193.9 | 171.9 | 144.9 | 135.9 | 137.9 | 147.9 | 155.9 |
| 52.5° | 736.6 | 967.5 | 767.6 | 231.9 | 184.9 | 147.9 | 126.9 | 124.9 | 131.9 | 143.9 | 150.9 |
| 55° | 990.5 | 1229.4 | 805.6 | 216.9 | 174.9 | 133.9 | 112.9 | 119.9 | 126.9 | 140.9 | 148.9 |
| 57.5° | 1387.3 | 1481.3 | 746.6 | 203.9 | 169.9 | 131.9 | 105.0 | 115.9 | 124.9 | 138.9 | 145.9 |
| 60° | 1816.1 | 1599.2 | 627.7 | 186.9 | 166.9 | 137.9 | 100.0 | 107.9 | 120.9 | 133.9 | 141.9 |
| 62.5° | 1893.1 | 1542.3 | 455.8 | 166.9 | 155.9 | 140.9 | 99.0 | 100.0 | 109.9 | 123.9 | 130.9 |
| 65° | *1794.1* | *1368.3* | *286.9* | *142.9* | *139.9* | *137.9* | *101.0* | *87.0* | *100.0* | *110.9* | *115.9* |
| 67.5° | 1653.2 | 1096.5 | 167.9 | 112.9 | 123.9 | 127.9 | 99.0 | 79.0 | 90.0 | 98.0 | 102.0 |
| 70° | 1476.3 | 843.6 | 114.9 | 84.0 | 100.0 | 111.9 | 91.0 | 71.0 | 80.0 | 88.0 | 90.0 |
| 72.5° | 1201.4 | 572.7 | 80.0 | 66.0 | 81.0 | 84.0 | 79.0 | 66.0 | 71.0 | 78.0 | 80.0 |
| 75° | 877.6 | 343.8 | 52.0 | 52.0 | 55.0 | 67.0 | 65.0 | 58.0 | 61.0 | 68.0 | 70.0 |
| 77.5° | 478.8 | 144.9 | 34.0 | 38.0 | 36.0 | 55.0 | 52.0 | 47.0 | 47.0 | 54.0 | 56.0 |
| 80° | 244.9 | 73.0 | 24.0 | 23.0 | 24.0 | 41.0 | 39.0 | 31.0 | 34.0 | 38.0 | 40.0 |
| 82.5° | 84.0 | 32.0 | 16.0 | 14.0 | 16.0 | 21.0 | 25.0 | 22.0 | 24.0 | 24.0 | 23.0 |
| 85° | 25.0 | 14.0 | 9.0 | 8.0 | 8.0 | 9.0 | 16.0 | 12.0 | 12.0 | 9.0 | 10.0 |
| 87.5° | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| 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° | 350.8 | 350.8 | 350.8 | 350.8 | 350.8 | 350.8 | 350.8 | 350.8 | 350.8 | 350.8 | 350.8 |
| 2.5° | 323.8 | 321.8 | 320.8 | 316.8 | 316.8 | 319.8 | 317.8 | 320.8 | 326.8 | 328.8 | 329.8 |
| 5° | 289.9 | 287.9 | 282.9 | 281.9 | 280.9 | 281.9 | 285.9 | 288.9 | 296.9 | 301.9 | 303.9 |
| 7.5° | 265.9 | 260.9 | 255.9 | 256.9 | 256.9 | 257.9 | 260.9 | 266.9 | 274.9 | 280.9 | 286.9 |
| 10° | 247.9 | 242.9 | 241.9 | 240.9 | 242.9 | 245.9 | 250.9 | 254.9 | 266.9 | 274.9 | 281.9 |
| 12.5° | 244.9 | 238.9 | 237.9 | 236.9 | 240.9 | 242.9 | 248.9 | 255.9 | 271.9 | 280.9 | 288.9 |
| 15° | 252.9 | 242.9 | 241.9 | 242.9 | 242.9 | 249.9 | 255.9 | 268.9 | 289.9 | 303.9 | 321.8 |
| 17.5° | 272.9 | 250.9 | 247.9 | 246.9 | 249.9 | 256.9 | 263.9 | 282.9 | 317.8 | 344.8 | 365.8 |
| 20° | 291.9 | 258.9 | 249.9 | 247.9 | 248.9 | 256.9 | 267.9 | 293.9 | 348.8 | 378.8 | 390.8 |
| 22.5° | 304.9 | 259.9 | 247.9 | 244.9 | 245.9 | 251.9 | 262.9 | 296.9 | 355.8 | 375.8 | 385.8 |
| 25° | 302.9 | 252.9 | 237.9 | 232.9 | 233.9 | 239.9 | 251.9 | 285.9 | 328.8 | 349.8 | 353.8 |
| 27.5° | 274.9 | 238.9 | 223.9 | 218.9 | 217.9 | 225.9 | 234.9 | 256.9 | 295.9 | 316.8 | 320.8 |
| 30° | 248.9 | 213.9 | 206.9 | 200.9 | 201.9 | 207.9 | 211.9 | 229.9 | 270.9 | 286.9 | 286.9 |
| 32.5° | 222.9 | 196.9 | 189.9 | 185.9 | 185.9 | 189.9 | 193.9 | 211.9 | 244.9 | 257.9 | 262.9 |
| 35° | 209.9 | 187.9 | 179.9 | 171.9 | 170.9 | 176.9 | 186.9 | 202.9 | 227.9 | 237.9 | 236.9 |
| 37.5° | 200.9 | 183.9 | 170.9 | 161.9 | 158.9 | 167.9 | 182.9 | 195.9 | 211.9 | 214.9 | 215.9 |
| 40° | 192.9 | 179.9 | 166.9 | 154.9 | 152.9 | 162.9 | 177.9 | 190.9 | 197.9 | 196.9 | 194.9 |
| 42.5° | 183.9 | 177.9 | 161.9 | 149.9 | 147.9 | 156.9 | 171.9 | 181.9 | 179.9 | 178.9 | 174.9 |
| 45° | 174.9 | 169.9 | 153.9 | 142.9 | 140.9 | 148.9 | 161.9 | 171.9 | 169.9 | 162.9 | 156.9 |
| 47.5° | 165.9 | 162.9 | 150.9 | 138.9 | 136.9 | 146.9 | 157.9 | 166.9 | 161.9 | 155.9 | 149.9 |
| 50° | 159.9 | 160.9 | 151.9 | 143.9 | 140.9 | 149.9 | 159.9 | 164.9 | 156.9 | 149.9 | 143.9 |
| 52.5° | 156.9 | 162.9 | 155.9 | 147.9 | 146.9 | 153.9 | 160.9 | 162.9 | 151.9 | 144.9 | 138.9 |
| 55° | 156.9 | 163.9 | 158.9 | 150.9 | 151.9 | 154.9 | 158.9 | 160.9 | 147.9 | 139.9 | 133.9 |
| 57.5° | 154.9 | 162.9 | 155.9 | 152.9 | 152.9 | 152.9 | 157.9 | 156.9 | 143.9 | 135.9 | 129.9 |
| 60° | 149.9 | 155.9 | 151.9 | 147.9 | 146.9 | 149.9 | 153.9 | 149.9 | 136.9 | 128.9 | 122.9 |
| 62.5° | 136.9 | 144.9 | 143.9 | 139.9 | 136.9 | 140.9 | 144.9 | 139.9 | 126.9 | 119.9 | 116.9 |
| 65° | *120.9* | *127.9* | *129.9* | *124.9* | *123.9* | *130.9* | *129.9* | *125.9* | *115.9* | *110.9* | *107.9* |
| 67.5° | 105.0 | 111.9 | 111.9 | 110.9 | 111.9 | 112.9 | 115.9 | 111.9 | 104.0 | 101.0 | 99.0 |
| 70° | 94.0 | 99.0 | 98.0 | 94.0 | 94.0 | 100.0 | 103.0 | 103.0 | 97.0 | 93.0 | 92.0 |
| 72.5° | 82.0 | 86.0 | 84.0 | 81.0 | 75.0 | 87.0 | 92.0 | 93.0 | 87.0 | 84.0 | 82.0 |
| 75° | 72.0 | 75.0 | 73.0 | 62.0 | 62.0 | 70.0 | 81.0 | 80.0 | 74.0 | 71.0 | 70.0 |
| 77.5° | 59.0 | 61.0 | 59.0 | 50.0 | 49.0 | 56.0 | 65.0 | 65.0 | 63.0 | 59.0 | 58.0 |
| 80° | 41.0 | 45.0 | 41.0 | 36.0 | 35.0 | 41.0 | 49.0 | 50.0 | 46.0 | 44.0 | 43.0 |
| 82.5° | 25.0 | 29.0 | 27.0 | 22.0 | 22.0 | 28.0 | 31.0 | 32.0 | 26.0 | 23.0 | 24.0 |
| 85° | 10.0 | 12.0 | 13.0 | 12.0 | 9.0 | 11.0 | 14.0 | 12.0 | 11.0 | 11.0 | 11.0 |
| 87.5° | 5.0 | 4.0 | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 5.0 | 5.0 | 6.0 |
| 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

Scaled Data Report

REPORT NUMBER: P1704728
CATALOG NUMBER: GSS-SB1A-AMB-U-SLL

**CANDELA DISTRIBUTION (continued):**

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 350.8 | 350.8 | 350.8 | 350.8 | 350.8 | 350.8 | 350.8 | 350.8 | 350.8 | 350.8 |
| 2.5° | 333.8 | 336.8 | 342.8 | 348.8 | 356.8 | 358.8 | 365.8 | 368.8 | 370.8 | 371.8 |
| 5° | 314.9 | 323.8 | 334.8 | 345.8 | 357.8 | 368.8 | 379.8 | 389.8 | 392.8 | 394.8 |
| 7.5° | 302.9 | 315.8 | 328.8 | 344.8 | 357.8 | 368.8 | 389.8 | 400.8 | 405.8 | 406.8 |
| 10° | 300.9 | 318.8 | 334.8 | 347.8 | 359.8 | 372.8 | 390.8 | 407.8 | 411.8 | 413.8 |
| 12.5° | 312.9 | 332.8 | 342.8 | 352.8 | 363.8 | 371.8 | 393.8 | 411.8 | 415.8 | 415.8 |
| 15° | 341.8 | 344.8 | 346.8 | 350.8 | 361.8 | 375.8 | 396.8 | 410.8 | 413.8 | 412.8 |
| 17.5° | 377.8 | 352.8 | 333.8 | 339.8 | 359.8 | 375.8 | 399.8 | 412.8 | 410.8 | 410.8 |
| 20° | 381.8 | 344.8 | 314.9 | 317.8 | 346.8 | 375.8 | 403.8 | 413.8 | 409.8 | 407.8 |
| 22.5° | 363.8 | 330.8 | 297.9 | 290.9 | 330.8 | 378.8 | 411.8 | 418.8 | 406.8 | 403.8 |
| 25° | 338.8 | 311.9 | 286.9 | 269.9 | 313.9 | 378.8 | 423.8 | 425.8 | 409.8 | 404.8 |
| 27.5° | 311.9 | 295.9 | 274.9 | 256.9 | 295.9 | 385.8 | 445.8 | 436.8 | 411.8 | 402.8 |
| 30° | 284.9 | 275.9 | 263.9 | 247.9 | 281.9 | 398.8 | 471.8 | 456.8 | 419.8 | 407.8 |
| 32.5° | 261.9 | 259.9 | 250.9 | 241.9 | 272.9 | 413.8 | 501.8 | 478.8 | 430.8 | 417.8 |
| 35° | 236.9 | 238.9 | 235.9 | 237.9 | 269.9 | 421.8 | 532.7 | 509.8 | 452.8 | 432.8 |
| 37.5° | 216.9 | 219.9 | 220.9 | 237.9 | 266.9 | 417.8 | 557.7 | 542.7 | 472.8 | 456.8 |
| 40° | 197.9 | 201.9 | 209.9 | 237.9 | 256.9 | 395.8 | 591.7 | 581.7 | 506.8 | 484.8 |
| 42.5° | 177.9 | 183.9 | 196.9 | 232.9 | 240.9 | 366.8 | 627.7 | 637.7 | 549.7 | 525.8 |
| 45° | 160.9 | 166.9 | 182.9 | 209.9 | 222.9 | 334.8 | 662.7 | 712.7 | 610.7 | 579.7 |
| 47.5° | 143.9 | 149.9 | 166.9 | 187.9 | 204.9 | 300.9 | 715.7 | 823.6 | 702.7 | 676.7 |
| 50° | 135.9 | 133.9 | 144.9 | 166.9 | 199.9 | 275.9 | 805.6 | 983.5 | 860.6 | 819.6 |
| 52.5° | 130.9 | 126.9 | 125.9 | 148.9 | 195.9 | 260.9 | 895.6 | 1263.4 | 1104.5 | 1071.5 |
| 55° | 126.9 | 121.9 | 116.9 | 146.9 | 189.9 | 239.9 | 921.6 | 1572.3 | 1492.3 | 1411.3 |
| 57.5° | 123.9 | 117.9 | 111.9 | 154.9 | 188.9 | 212.9 | 829.6 | 1767.2 | 1881.1 | 1861.1 |
| 60° | 115.9 | 111.9 | 110.9 | 157.9 | 180.9 | 184.9 | 636.7 | 1755.2 | 2152.0 | 2180.0 |
| 62.5° | 109.9 | 102.0 | 115.9 | 158.9 | 160.9 | 153.9 | 408.8 | 1528.3 | 1996.1 | 2085.0 |
| 65° | *103.0* | *92.0* | *121.9* | *150.9* | *135.9* | *122.9* | *208.9* | *1206.4* | *1677.2* | *1809.1* |
| 67.5° | 94.0 | 84.0 | 122.9 | 130.9 | 112.9 | 90.0 | 132.9 | 923.6 | 1421.3 | 1510.3 |
| 70° | 87.0 | 80.0 | 105.9 | 108.9 | 88.0 | 70.0 | 82.0 | 592.7 | 1054.5 | 1155.5 |
| 72.5° | 78.0 | 75.0 | 93.0 | 80.0 | 67.0 | 54.0 | 53.0 | 306.9 | 726.7 | 801.6 |
| 75° | 65.0 | 67.0 | 80.0 | 67.0 | 45.0 | 42.0 | 38.0 | 147.9 | 418.8 | 505.8 |
| 77.5° | 54.0 | 52.0 | 65.0 | 52.0 | 34.0 | 29.0 | 28.0 | 61.0 | 207.9 | 243.9 |
| 80° | 40.0 | 38.0 | 48.0 | 36.0 | 22.0 | 18.0 | 19.0 | 33.0 | 50.0 | 67.0 |
| 82.5° | 27.0 | 26.0 | 33.0 | 18.0 | 13.0 | 11.0 | 12.0 | 18.0 | 25.0 | 26.0 |
| 85° | 12.0 | 13.0 | 15.0 | 9.0 | 6.0 | 5.0 | 5.0 | 7.0 | 9.0 | 10.0 |
| 87.5° | 6.0 | 5.0 | 4.0 | 3.0 | 2.0 | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 90° | 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: SP3-2509-541-1

Test Date: 09/16/2025

Luminaire Tested: GALN-SA1A-AMB-U-T3BC

Data in this report applies to families of products including GALN-SA1A*

Report Generated By FNC07603 / LDUCLS01DT01661
Version: v7.05

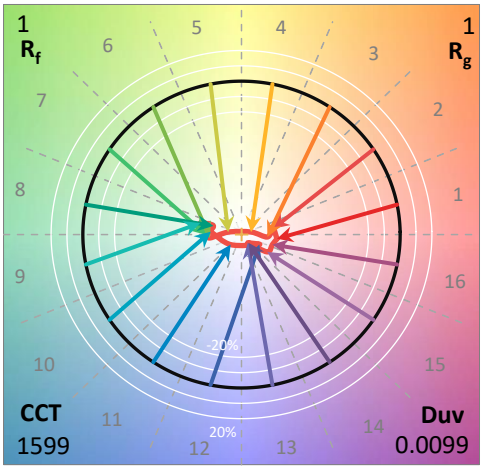
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP3-2509-541-1 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP3 - 3M SPHERE |
| Measurement Geometry: | 4π |
| Issue Date: | 10/02/2025 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGraw-Edison |
| Catalog Number: | **GALN-SA1A-AMB-U-T3BC** |
| Description: | GALLEON AREA AND ROADWAY LUMINAIRE. (1) AMBER, 615MA LIGHTSQUARES TYPE III ROADWAY OPTICS WITH ANGLED BACKLIGHT CONTROL HEATSINK |

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 1599 |
| CIE u': | 0.3452 |
| CIE v': | 0.5480 |
| Duv: | 0.0099 |
| CIE x: | 0.5859 |
| CIE y: | 0.4133 |
| CIE z: | 0.0008 |
| Peak Wavelength (nm): | 596 |
| Dominant Wavelength (nm): | 591 |
| Purity: | 99.94224 |
| Rf: | 1.2 |
| Rg: | 0.9 |

| | | | | | |
|---|---|---|---|---|---|
| CRI (Ra): | -22.7 | | | | |
| R1: | -36.4 | R9: | -395.3 | | |
| R2: | 50.8 | R10: | 26.0 | | |
| R3: | 18.3 | R11: | -97.2 | | |
| R4: | -69.1 | R12: | -14.1 | | |
| R5: | -41.9 | R13: | -17.6 | | |
| R6: | 38.5 | R14: | 46.4 | | |
| R7: | -6.7 | R15: | -69.4 | | |
| R8: | -135.4 | | | | |




## Test Conditions

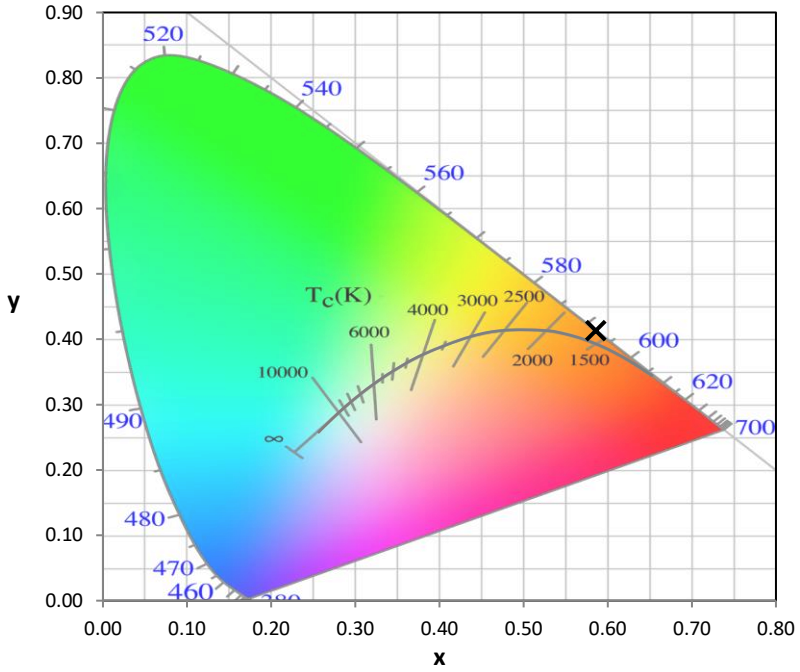
| | |
|---|---|
| Stabilization Time: | 64M |
| Operation Time: | 2H 4M |
| Sphere Temperature (°C): | 25.0 |

REPORT NUMBER: SP3-2509-541-1

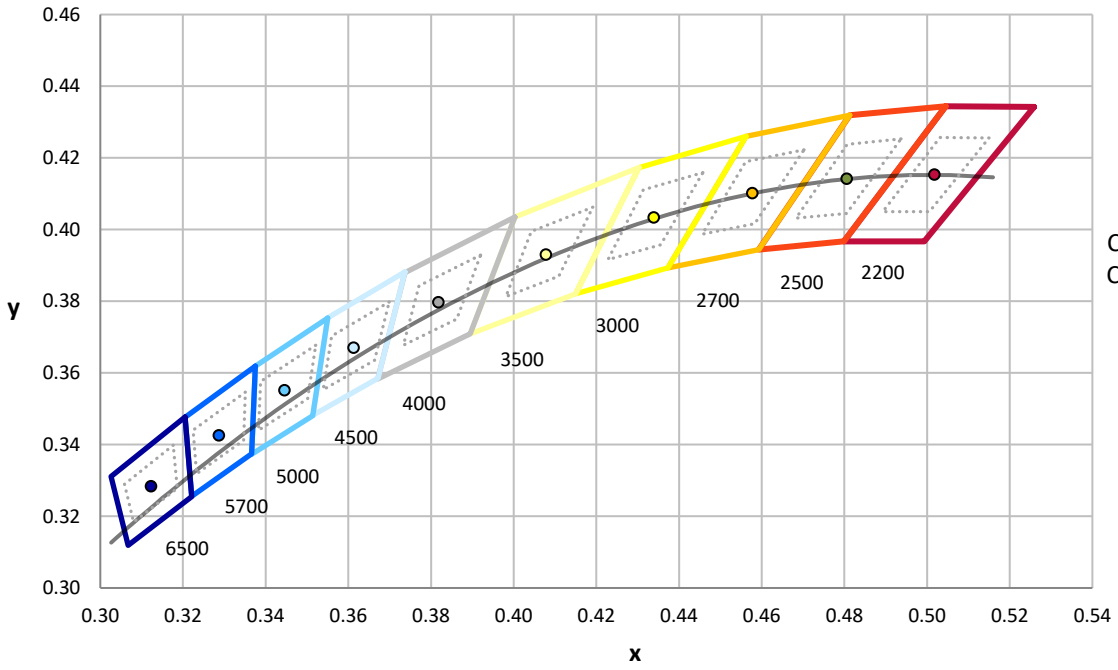
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | 3M SPHERE IN02505 | 7/1/2025 | 1/1/2026 |
| Power Meter | XITRON INXT2011006 | 1/20/2025 | 1/20/2026 |
| AC Power Source | CHROMA 61604 IN6064A | 10/22/2024 | 10/22/2025 |
| DC Power Source | EYSIGHT N5770A IN0534 | 10/22/2024 | 10/22/2025 |
| Sphere Thermometer | TANDD IN4036E | 10/22/2024 | 10/22/2025 |
| | | | |

REPORT NUMBER: SP3-2509-541-1

**CIE 1931 Chromaticity Diagram**




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

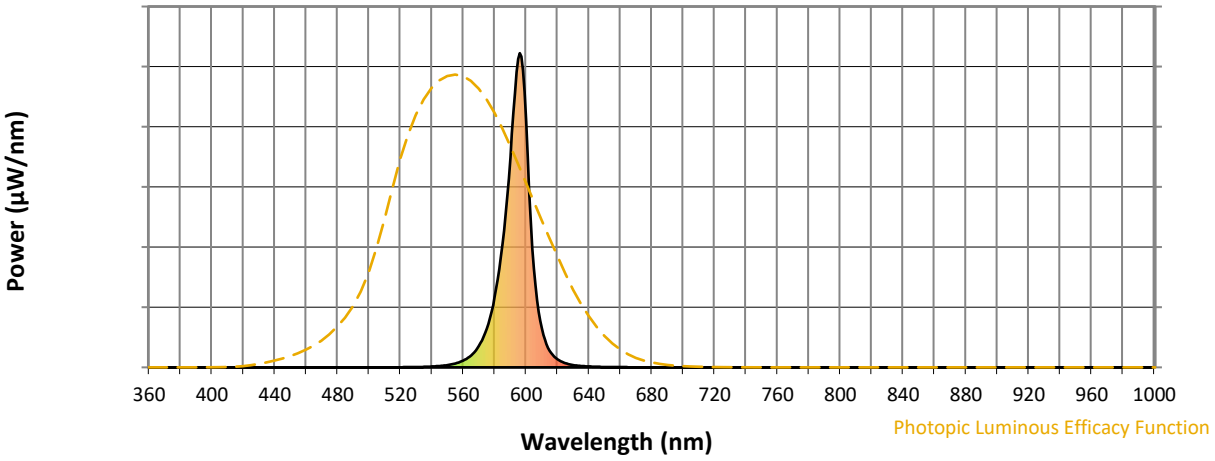



CCT = 1599K
CIE x = 0.5859
CIE y = 0.4133
Duv = 0.0099

Point lies outside the range

REPORT NUMBER: SP3-2509-541-1

## Photopic Flux vs. Wavelength

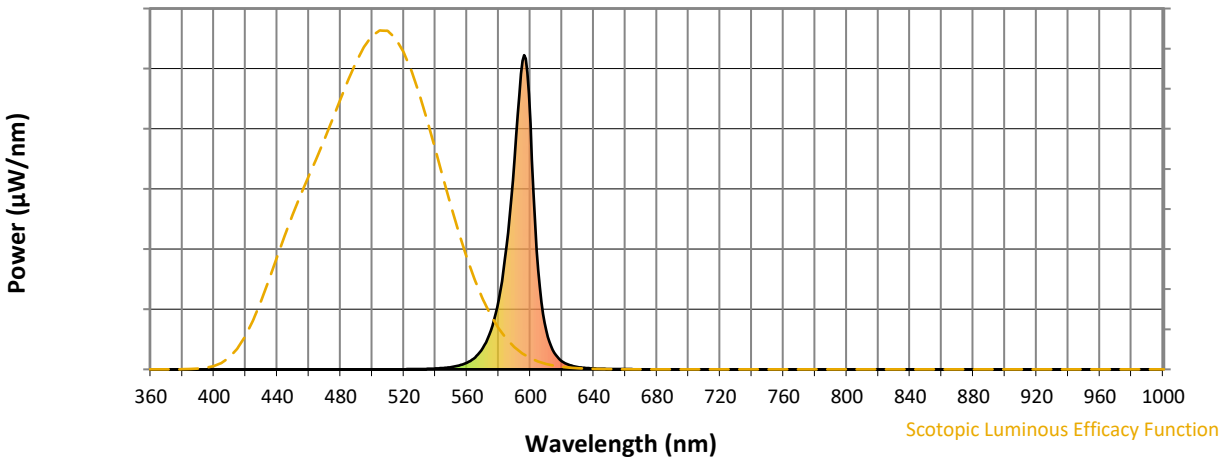



## Photopic Lumens: NR

| 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 | 0 | NR | 620 | 26 | NR | 750 | 0 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 0 | NR | 625 | 13 | NR | 755 | 0 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 0 | NR | 630 | 8 | NR | 760 | 0 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 0 | NR | 635 | 4 | NR | 765 | 0 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 0 | NR | 640 | 3 | NR | 770 | 0 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 0 | NR | 645 | 2 | NR | 775 | 0 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 1 | NR | 650 | 1 | NR | 780 | 0 | NR | 910 | 0 | NR |
| 395 | 0 | NR | 525 | 1 | NR | 655 | 1 | NR | 785 | 0 | NR | 915 | 0 | NR |
| 400 | 0 | NR | 530 | 1 | NR | 660 | 1 | NR | 790 | 0 | NR | 920 | 0 | NR |
| 405 | 0 | NR | 535 | 2 | NR | 665 | 1 | NR | 795 | 0 | NR | 925 | 0 | NR |
| 410 | 0 | NR | 540 | 3 | NR | 670 | 0 | NR | 800 | 0 | NR | 930 | 0 | NR |
| 415 | 0 | NR | 545 | 4 | NR | 675 | 0 | NR | 805 | 0 | NR | 935 | 0 | NR |
| 420 | 0 | NR | 550 | 7 | NR | 680 | 0 | NR | 810 | 0 | NR | 940 | 0 | NR |
| 425 | 0 | NR | 555 | 12 | NR | 685 | 0 | NR | 815 | 0 | NR | 945 | 0 | NR |
| 430 | 0 | NR | 560 | 22 | NR | 690 | 0 | NR | 820 | 0 | NR | 950 | 0 | NR |
| 435 | 0 | NR | 565 | 38 | NR | 695 | 0 | NR | 825 | 0 | NR | 955 | 0 | NR |
| 440 | 0 | NR | 570 | 68 | NR | 700 | 0 | NR | 830 | 0 | NR | 960 | 0 | NR |
| 445 | 0 | NR | 575 | 123 | NR | 705 | 0 | NR | 835 | 0 | NR | 965 | 0 | NR |
| 450 | 0 | NR | 580 | 223 | NR | 710 | 0 | NR | 840 | 0 | NR | 970 | 0 | NR |
| 455 | 0 | NR | 585 | 392 | NR | 715 | 0 | NR | 845 | 0 | NR | 975 | 0 | NR |
| 460 | 0 | NR | 590 | 669 | NR | 720 | 0 | NR | 850 | 0 | NR | 980 | 0 | NR |
| 465 | 0 | NR | 595 | 982 | NR | 725 | 0 | NR | 855 | 0 | NR | 985 | 0 | NR |
| 470 | 0 | NR | 600 | 783 | NR | 730 | 0 | NR | 860 | 0 | NR | 990 | 0 | NR |
| 475 | 0 | NR | 605 | 315 | NR | 735 | 0 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 0 | NR | 610 | 124 | NR | 740 | 0 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 0 | NR | 615 | 53 | NR | 745 | 0 | NR | 875 | 0 | NR | | | |

REPORT NUMBER: SP3-2509-541-1

## Scotopic Flux vs. Wavelength

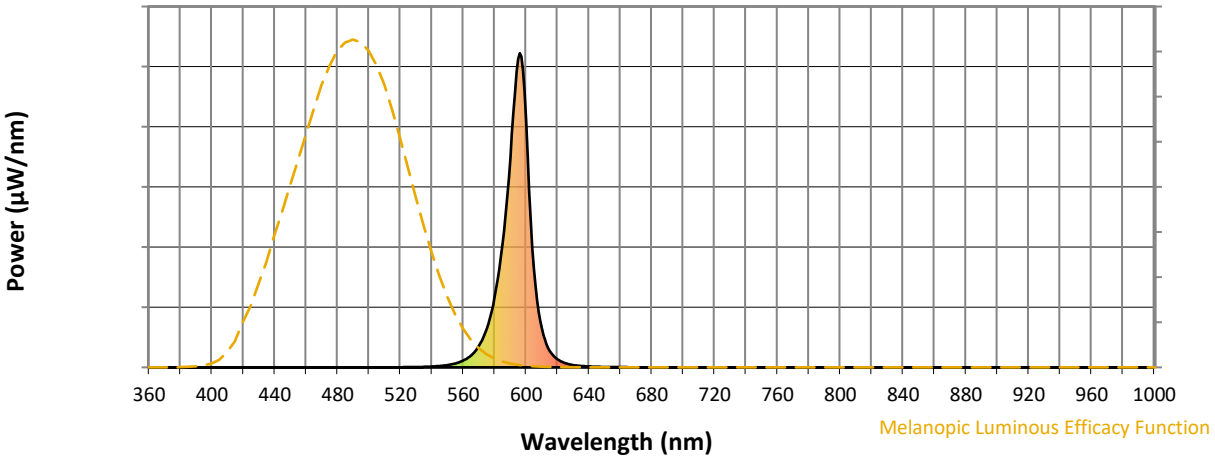



**Scotopic Lumens: NR** **S/P: 0.23**

| 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 | 0 | NR | 620 | 26 | NR | 750 | 0 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 0 | NR | 625 | 13 | NR | 755 | 0 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 0 | NR | 630 | 8 | NR | 760 | 0 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 0 | NR | 635 | 4 | NR | 765 | 0 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 0 | NR | 640 | 3 | NR | 770 | 0 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 0 | NR | 645 | 2 | NR | 775 | 0 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 1 | NR | 650 | 1 | NR | 780 | 0 | NR | 910 | 0 | NR |
| 395 | 0 | NR | 525 | 1 | NR | 655 | 1 | NR | 785 | 0 | NR | 915 | 0 | NR |
| 400 | 0 | NR | 530 | 1 | NR | 660 | 1 | NR | 790 | 0 | NR | 920 | 0 | NR |
| 405 | 0 | NR | 535 | 2 | NR | 665 | 1 | NR | 795 | 0 | NR | 925 | 0 | NR |
| 410 | 0 | NR | 540 | 3 | NR | 670 | 0 | NR | 800 | 0 | NR | 930 | 0 | NR |
| 415 | 0 | NR | 545 | 4 | NR | 675 | 0 | NR | 805 | 0 | NR | 935 | 0 | NR |
| 420 | 0 | NR | 550 | 7 | NR | 680 | 0 | NR | 810 | 0 | NR | 940 | 0 | NR |
| 425 | 0 | NR | 555 | 12 | NR | 685 | 0 | NR | 815 | 0 | NR | 945 | 0 | NR |
| 430 | 0 | NR | 560 | 22 | NR | 690 | 0 | NR | 820 | 0 | NR | 950 | 0 | NR |
| 435 | 0 | NR | 565 | 38 | NR | 695 | 0 | NR | 825 | 0 | NR | 955 | 0 | NR |
| 440 | 0 | NR | 570 | 68 | NR | 700 | 0 | NR | 830 | 0 | NR | 960 | 0 | NR |
| 445 | 0 | NR | 575 | 123 | NR | 705 | 0 | NR | 835 | 0 | NR | 965 | 0 | NR |
| 450 | 0 | NR | 580 | 223 | NR | 710 | 0 | NR | 840 | 0 | NR | 970 | 0 | NR |
| 455 | 0 | NR | 585 | 392 | NR | 715 | 0 | NR | 845 | 0 | NR | 975 | 0 | NR |
| 460 | 0 | NR | 590 | 669 | NR | 720 | 0 | NR | 850 | 0 | NR | 980 | 0 | NR |
| 465 | 0 | NR | 595 | 982 | NR | 725 | 0 | NR | 855 | 0 | NR | 985 | 0 | NR |
| 470 | 0 | NR | 600 | 783 | NR | 730 | 0 | NR | 860 | 0 | NR | 990 | 0 | NR |
| 475 | 0 | NR | 605 | 315 | NR | 735 | 0 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 0 | NR | 610 | 124 | NR | 740 | 0 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 0 | NR | 615 | 53 | NR | 745 | 0 | NR | 875 | 0 | NR | | | |

REPORT NUMBER: SP3-2509-541-1

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 0.13**

| 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 | 0 | NR | 620 | 26 | NR | 750 | 0 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 0 | NR | 625 | 13 | NR | 755 | 0 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 0 | NR | 630 | 8 | NR | 760 | 0 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 0 | NR | 635 | 4 | NR | 765 | 0 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 0 | NR | 640 | 3 | NR | 770 | 0 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 0 | NR | 645 | 2 | NR | 775 | 0 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 1 | NR | 650 | 1 | NR | 780 | 0 | NR | 910 | 0 | NR |
| 395 | 0 | NR | 525 | 1 | NR | 655 | 1 | NR | 785 | 0 | NR | 915 | 0 | NR |
| 400 | 0 | NR | 530 | 1 | NR | 660 | 1 | NR | 790 | 0 | NR | 920 | 0 | NR |
| 405 | 0 | NR | 535 | 2 | NR | 665 | 1 | NR | 795 | 0 | NR | 925 | 0 | NR |
| 410 | 0 | NR | 540 | 3 | NR | 670 | 0 | NR | 800 | 0 | NR | 930 | 0 | NR |
| 415 | 0 | NR | 545 | 4 | NR | 675 | 0 | NR | 805 | 0 | NR | 935 | 0 | NR |
| 420 | 0 | NR | 550 | 7 | NR | 680 | 0 | NR | 810 | 0 | NR | 940 | 0 | NR |
| 425 | 0 | NR | 555 | 12 | NR | 685 | 0 | NR | 815 | 0 | NR | 945 | 0 | NR |
| 430 | 0 | NR | 560 | 22 | NR | 690 | 0 | NR | 820 | 0 | NR | 950 | 0 | NR |
| 435 | 0 | NR | 565 | 38 | NR | 695 | 0 | NR | 825 | 0 | NR | 955 | 0 | NR |
| 440 | 0 | NR | 570 | 68 | NR | 700 | 0 | NR | 830 | 0 | NR | 960 | 0 | NR |
| 445 | 0 | NR | 575 | 123 | NR | 705 | 0 | NR | 835 | 0 | NR | 965 | 0 | NR |
| 450 | 0 | NR | 580 | 223 | NR | 710 | 0 | NR | 840 | 0 | NR | 970 | 0 | NR |
| 455 | 0 | NR | 585 | 392 | NR | 715 | 0 | NR | 845 | 0 | NR | 975 | 0 | NR |
| 460 | 0 | NR | 590 | 669 | NR | 720 | 0 | NR | 850 | 0 | NR | 980 | 0 | NR |
| 465 | 0 | NR | 595 | 982 | NR | 725 | 0 | NR | 855 | 0 | NR | 985 | 0 | NR |
| 470 | 0 | NR | 600 | 783 | NR | 730 | 0 | NR | 860 | 0 | NR | 990 | 0 | NR |
| 475 | 0 | NR | 605 | 315 | NR | 735 | 0 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 0 | NR | 610 | 124 | NR | 740 | 0 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 0 | NR | 615 | 53 | NR | 745 | 0 | NR | 875 | 0 | NR | | | |

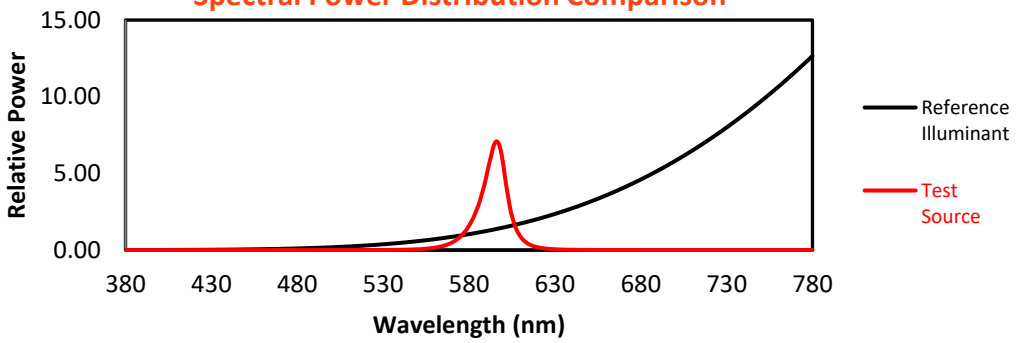
REPORT NUMBER: SP3-2509-541-1

# TM-30-18

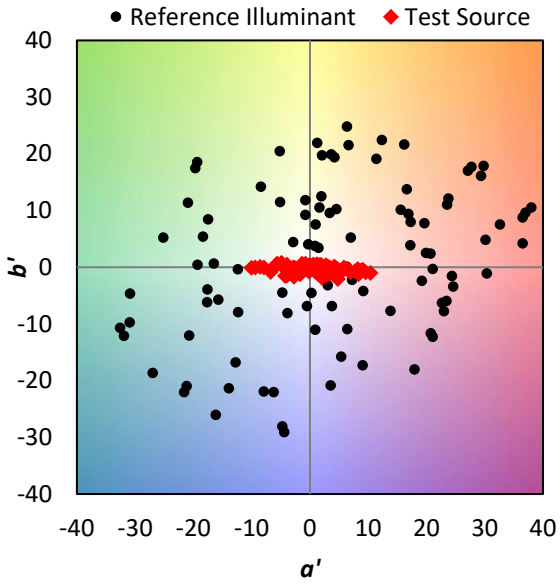
## Summary

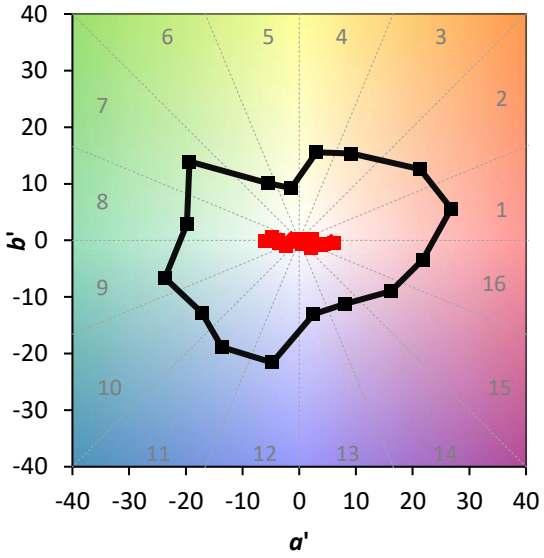
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$R_g$ = 0.9
CIE $R_a$ = -22.7
$R_9$ = -395.3

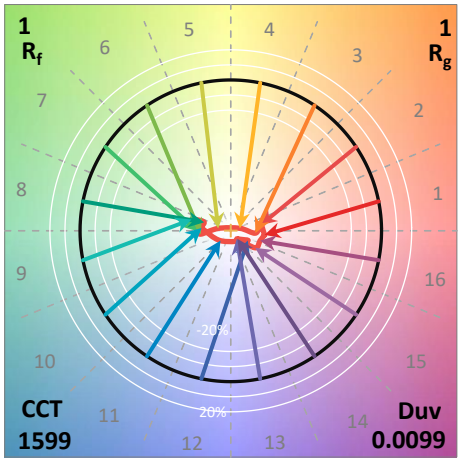
## Spectral Power Distribution Comparison

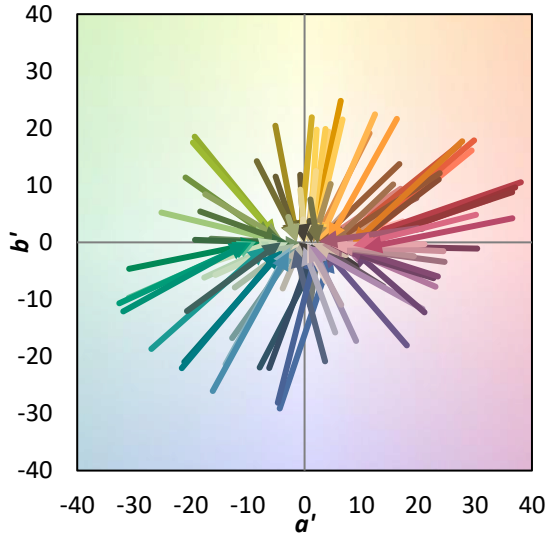



## Color Vector Graphics



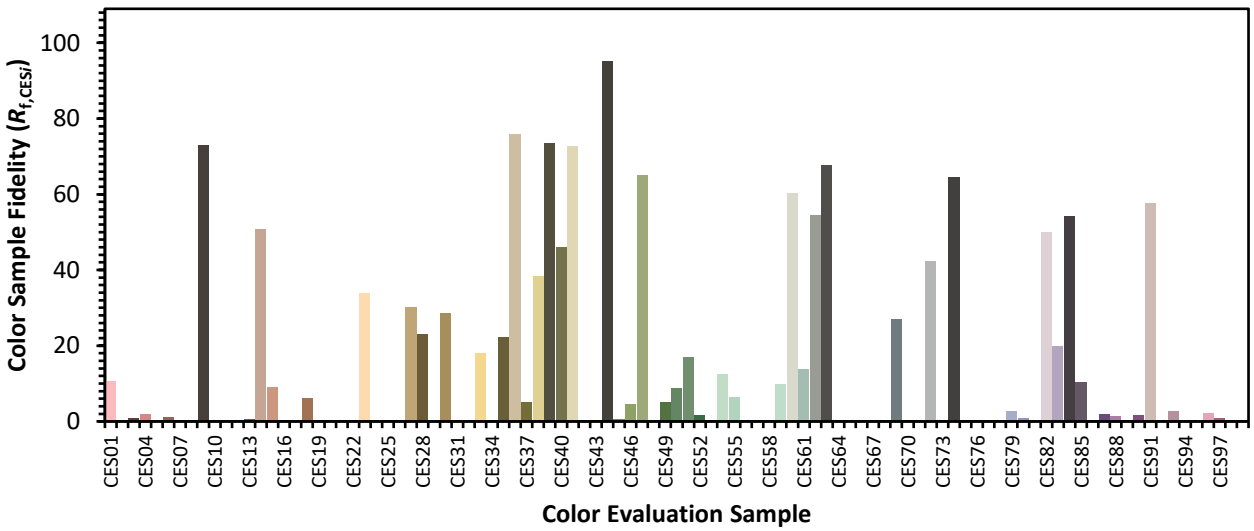



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**Individual Sample Fidelity Index ($R_{f,i}$)**

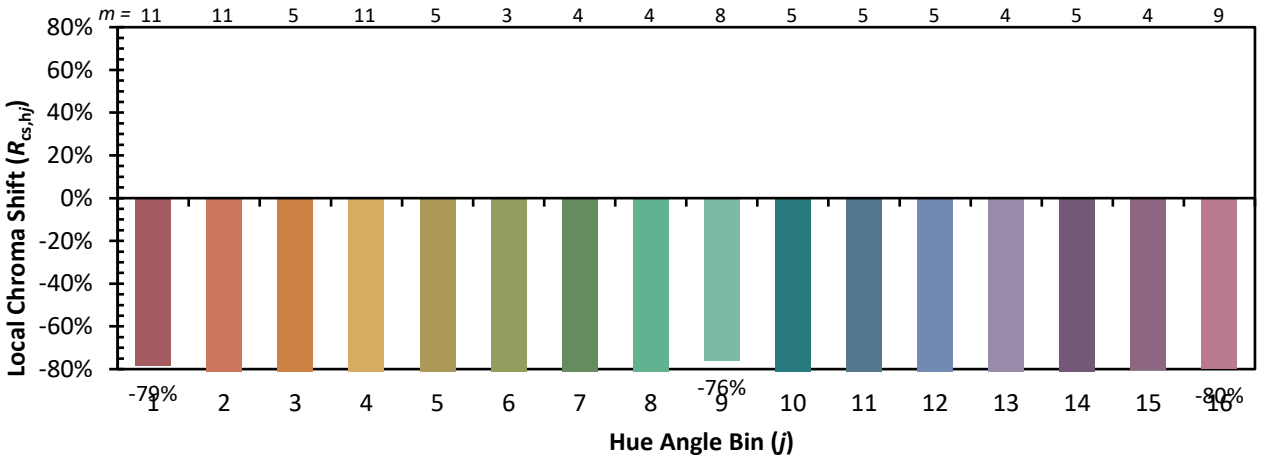
| | | | |
|---|---|---|---|
| CES01 = 90 | CES26 = 0 | CES51 = 17 | CES76 = 0 |
| CES02 = 69 | CES27 = 30 | CES52 = 2 | CES77 = 0 |
| CES03 = 30 | CES28 = 23 | CES53 = 0 | CES78 = 0 |
| CES04 = 77 | CES29 = 0 | CES54 = 12 | CES79 = 3 |
| CES05 = 51 | CES30 = 29 | CES55 = 6 | CES80 = 1 |
| CES06 = 56 | CES31 = 0 | CES56 = 0 | CES81 = 0 |
| CES07 = 40 | CES32 = 0 | CES57 = 0 | CES82 = 50 |
| CES08 = 38 | CES33 = 18 | CES58 = 0 | CES83 = 20 |
| CES09 = 29 | CES34 = 0 | CES59 = 10 | CES84 = 54 |
| CES10 = 87 | CES35 = 22 | CES60 = 60 | CES85 = 10 |
| CES11 = 70 | CES36 = 76 | CES61 = 14 | CES86 = 0 |
| CES12 = 75 | CES37 = 5 | CES62 = 55 | CES87 = 2 |
| CES13 = 46 | CES38 = 38 | CES63 = 68 | CES88 = 1 |
| CES14 = 76 | CES39 = 73 | CES64 = 0 | CES89 = 0 |
| CES15 = 74 | CES40 = 46 | CES65 = 0 | CES90 = 2 |
| CES16 = 49 | CES41 = 73 | CES66 = 0 | CES91 = 58 |
| CES17 = 56 | CES42 = 0 | CES67 = 0 | CES92 = 0 |
| CES18 = 59 | CES43 = 0 | CES68 = 0 | CES93 = 3 |
| CES19 = 80 | CES44 = 95 | CES69 = 27 | CES94 = 0 |
| CES20 = 71 | CES45 = 1 | CES70 = 0 | CES95 = 0 |
| CES21 = 94 | CES46 = 5 | CES71 = 0 | CES96 = 2 |
| CES22 = 86 | CES47 = 65 | CES72 = 42 | CES97 = 1 |
| CES23 = 94 | CES48 = 0 | CES73 = 0 | CES98 = 0 |
| CES24 = 95 | CES49 = 5 | CES74 = 65 | CES99 = 0 |
| CES25 = 79 | CES50 = 9 | CES75 = 0 | |

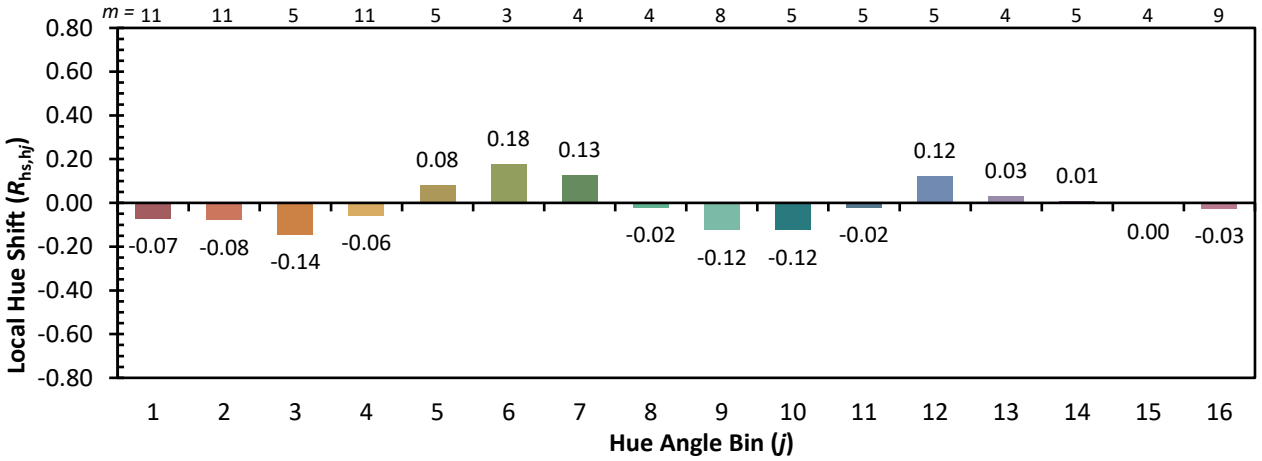


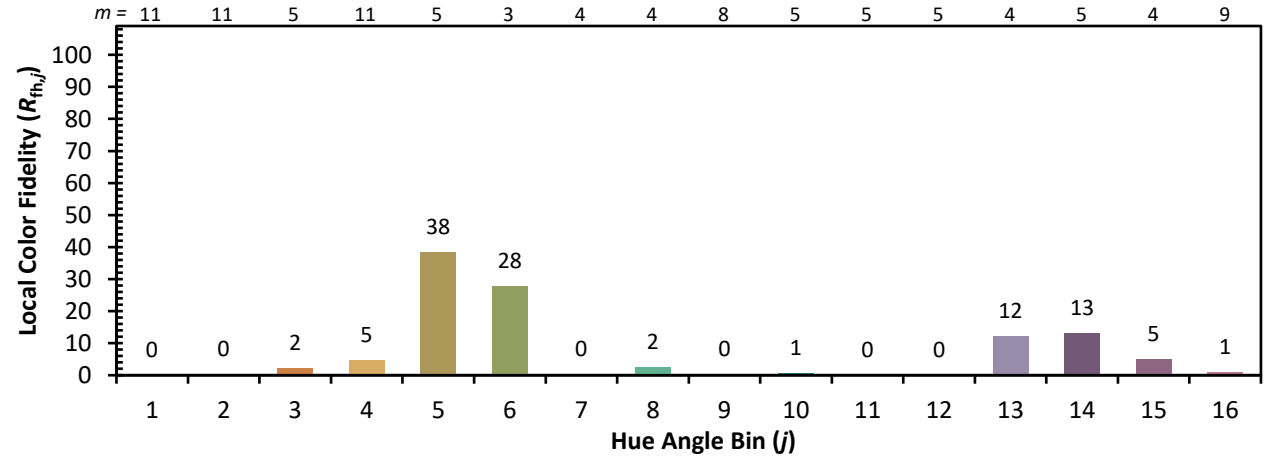
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## Color Rendition by Hue-Angle Bin



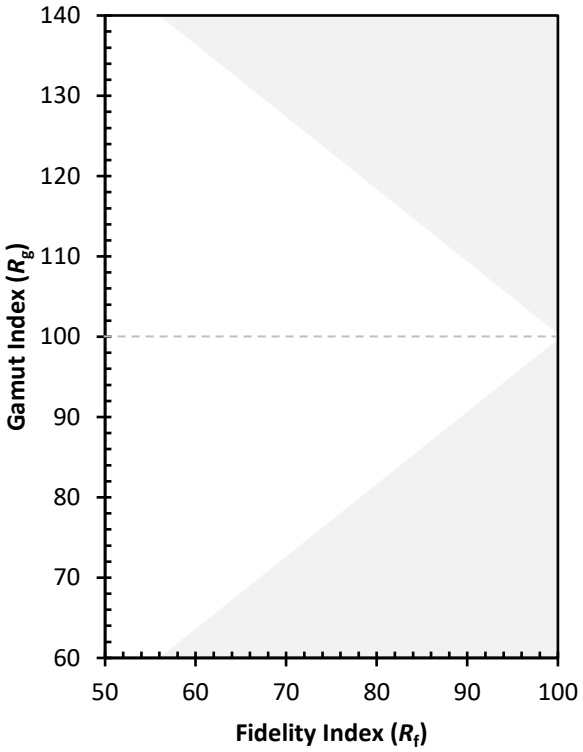



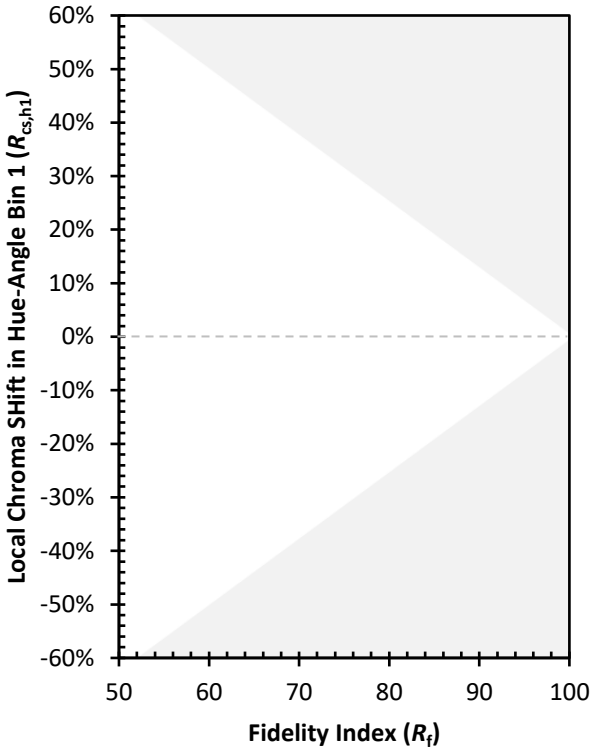



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## Measure Comparisons




(END OF REPORT)