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: P1197852

Luminaire Tested: GPC-SB1B-740-U-SLR-HSS

Issue Date: 10/30/2025

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-2024 |
| Report Number: | P1197852 |
| | TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9) |
| Test Lab: | INNOVATION CENTER |
| Issue Date: | 3/14/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GPC-SB1B-740-U-SLR-HSS |
| Description: | GALLEON PEDESTRIAN LUMINAIRE |
| | (1) 70 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD |
| Light Source: | - |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 4571 lumens |
| Efficiency: | N/A |
| Efficacy: | 114.8 lumens/watt |
| Luminous Opening: | Rectangular (W 0.5' x L: 0.5' x H: 0') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B1 - U0 - G2 |

| | |
|---|---|
| Input Watts (W): | 39.8 |
| Input Voltage (V): | 120.0 |
| Input Current (Ain): | 0.33 |
| Voltage Rise (V): | NR |
| Power Factor: | 0.996 |
| Total Harmonic Distortion (THDi): | 5.305 |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

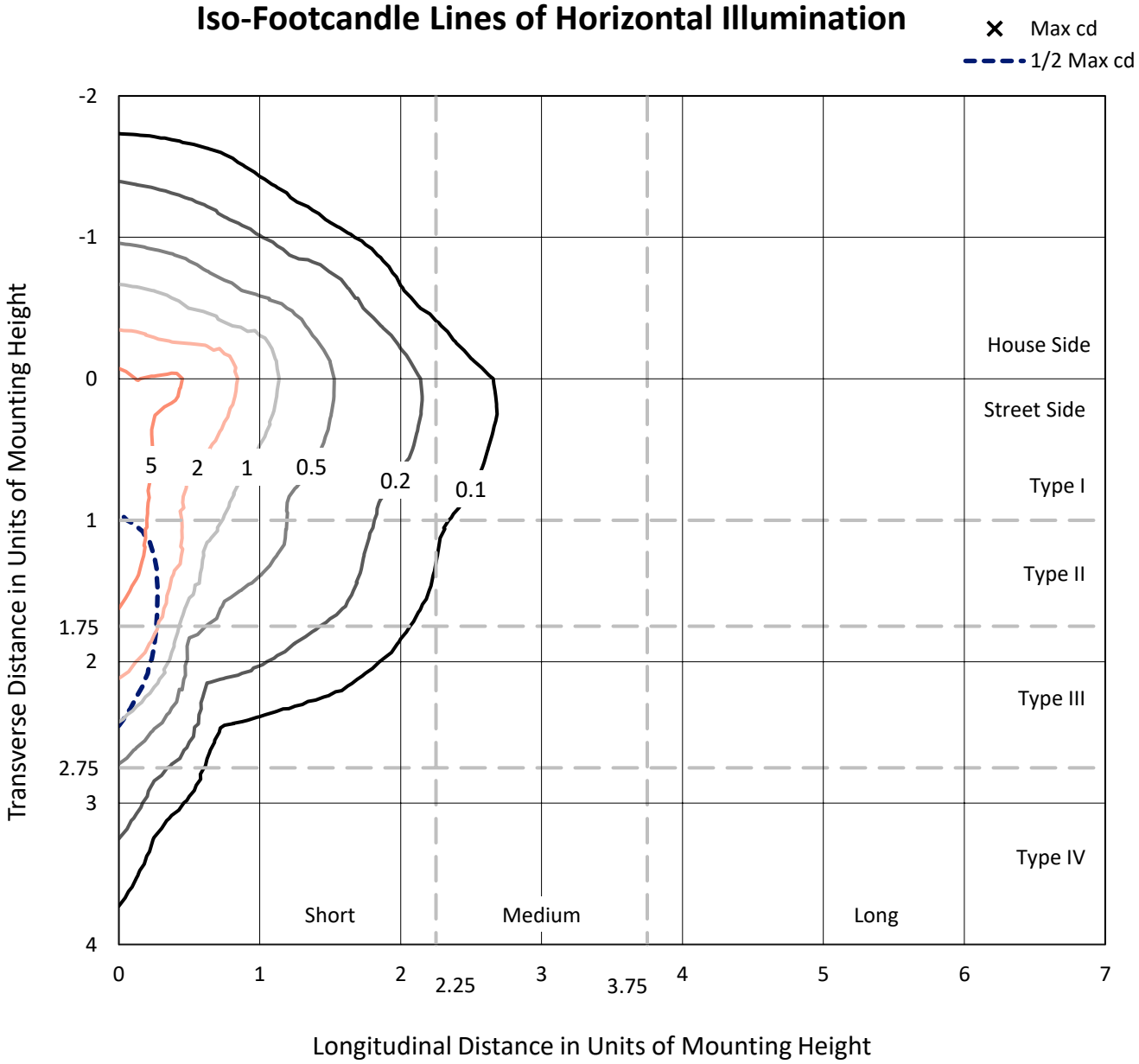


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## Iso-Footcandle Lines of Horizontal Illumination



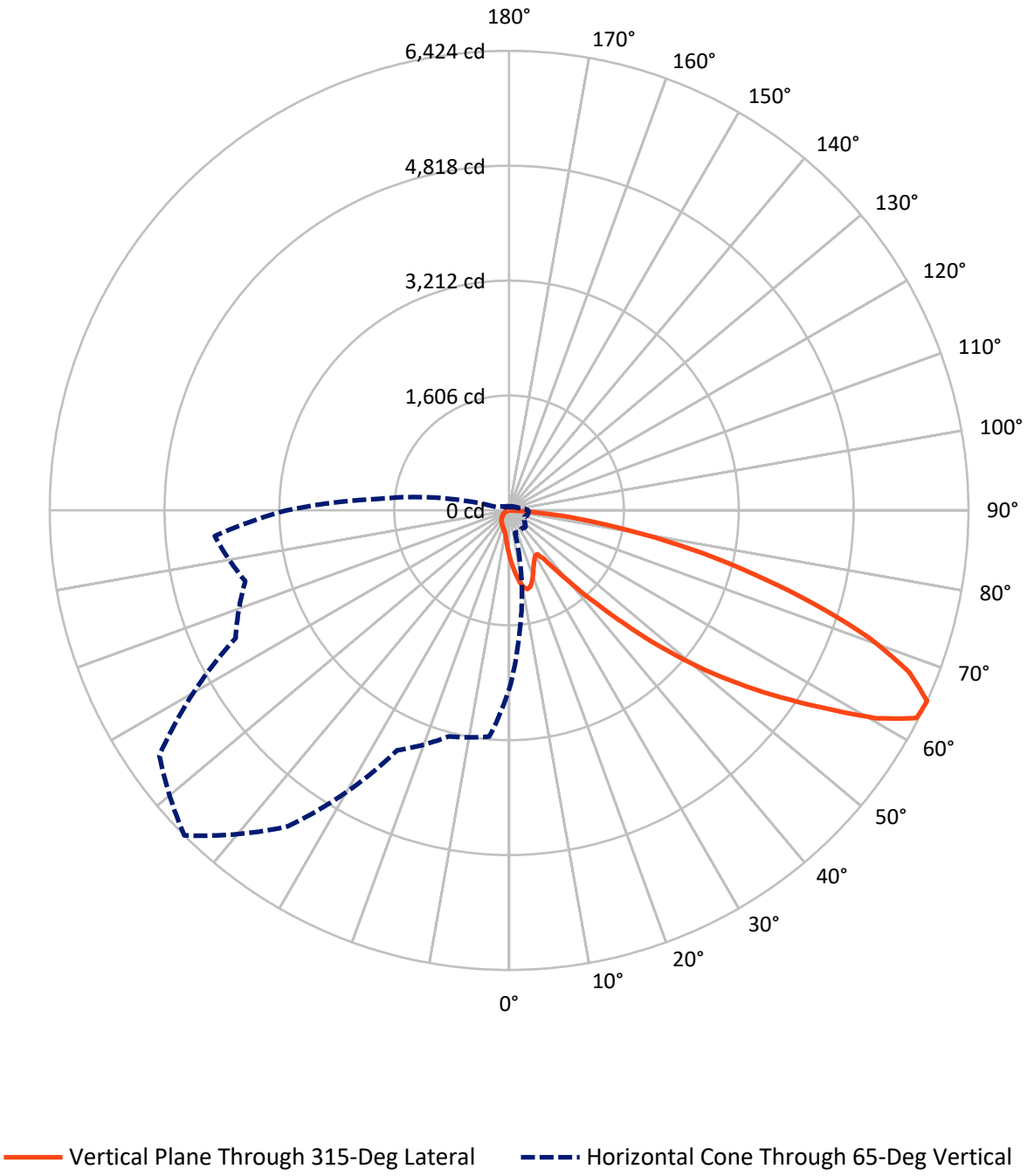

Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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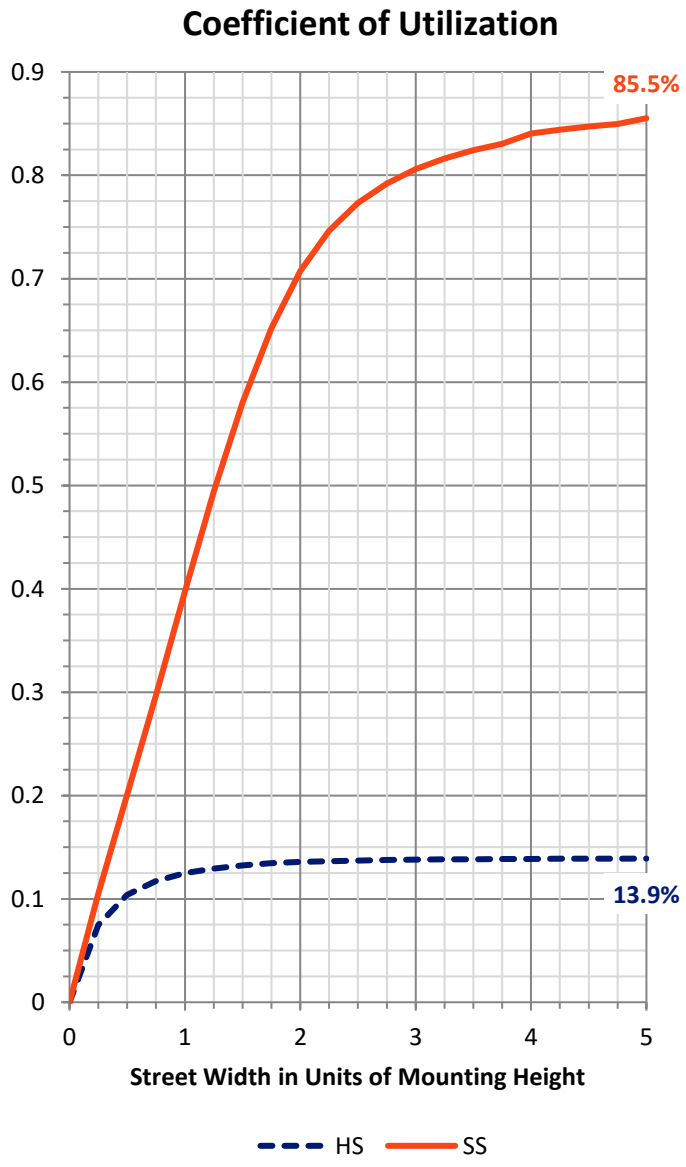
REPORT NUMBER: P1197852
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 640.1 | 0.0 | 640.1 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| **Street Side** | Lumens | 3930.9 | 0.0 | 3930.9 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| **Total** | Lumens | 4571.0 | 0.0 | 4571.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 62.3 | 1.4 |
| 10°-20° | 186.8 | 4.1 |
| 20°-30° | 275.2 | 6.0 |
| 30°-40° | 353.6 | 7.7 |
| 40°-50° | 571.8 | 12.5 |
| 50°-60° | 1002.7 | 21.9 |
| 60°-70° | 1254.7 | 27.4 |
| 70°-80° | 733.2 | 16.0 |
| 80°-90° | 130.8 | 2.9 |
| 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° | 4571.0 | 100.0 |
| 0°-180° | 4571.0 | 100.0 |



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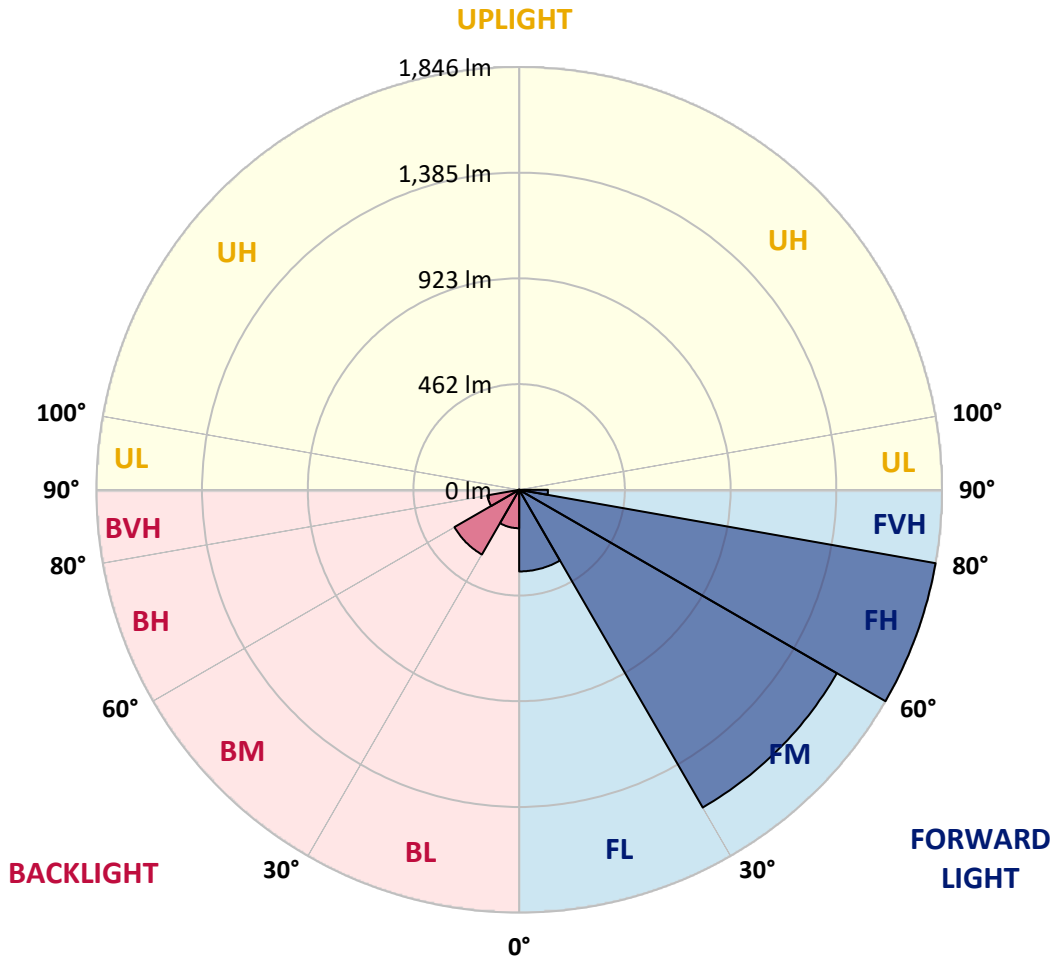
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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 356.5 | 7.8 | | | |
| FM | (30°-60°) | 1602.1 | 35.0 | | | |
| FH | (60°-80°) | 1846.5 | 40.4 | | | G2/5000 |
| FVH | (80°-90°) | 125.8 | 2.8 | | | G2/225 |
| BL | (0°-30°) | 167.8 | 3.7 | B1/500 | | |
| BM | (30°-60°) | 326.0 | 7.1 | B1/1000 | | |
| BH | (60°-80°) | 141.3 | 3.1 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 5.0 | 0.1 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B1-U0-G2**
Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 632.9 | 632.9 | 632.9 | 632.9 | 632.9 | 632.9 | 632.9 | 632.9 | 632.9 | 632.9 | 632.9 |
| 2.5° | 715.1 | 702.8 | 695.6 | 677.7 | 659.7 | 645.2 | 625.7 | 612.8 | 597.4 | 582.6 | 569.3 |
| 5° | 797.0 | 777.2 | 753.2 | 720.5 | 690.6 | 660.0 | 630.4 | 601.1 | 570.3 | 541.9 | 524.6 |
| 7.5° | 866.3 | 837.6 | 795.4 | 752.0 | 713.9 | 677.0 | 642.4 | 603.7 | 566.2 | 521.8 | 498.2 |
| 10° | 919.2 | 882.6 | 827.2 | 770.2 | 726.5 | 689.3 | 655.6 | 622.9 | 585.1 | 531.5 | 501.9 |
| 12.5° | 951.3 | 912.2 | 846.4 | 779.7 | 729.6 | 688.0 | 661.9 | 647.4 | 632.6 | 579.4 | 544.8 |
| 15° | 974.9 | 932.7 | 860.0 | 786.3 | 722.4 | 671.4 | 652.1 | 666.6 | 683.6 | 649.6 | 609.6 |
| 17.5° | 999.5 | 955.1 | 877.6 | 789.1 | 702.8 | 638.9 | 630.7 | 668.2 | 707.6 | 706.0 | 666.3 |
| 20° | 1022.8 | 978.7 | 893.0 | 787.2 | 671.4 | 599.6 | 606.8 | 654.7 | 700.3 | 719.5 | 698.1 |
| 22.5° | 1049.5 | 1002.9 | 907.8 | 780.0 | 630.4 | 562.7 | 585.4 | 633.3 | 673.2 | 695.9 | 689.3 |
| 25° | 1082.3 | 1033.5 | 928.6 | 769.3 | 586.3 | 532.2 | 563.7 | 608.4 | 640.8 | 656.6 | 656.2 |
| 27.5° | 1117.6 | 1070.0 | 956.3 | 763.6 | 550.7 | 510.4 | 539.1 | 578.8 | 607.7 | 618.8 | 618.8 |
| 30° | 1161.3 | 1112.5 | 989.1 | 757.3 | 527.4 | 497.8 | 513.6 | 544.5 | 572.8 | 583.8 | 583.8 |
| 32.5° | 1209.2 | 1159.8 | 1020.6 | 742.2 | 513.3 | 488.4 | 488.7 | 508.2 | 534.1 | 547.3 | 549.2 |
| 35° | 1269.0 | 1216.4 | 1054.3 | 709.1 | 501.9 | 477.4 | 464.5 | 473.9 | 495.3 | 511.1 | 515.2 |
| 37.5° | 1354.4 | 1290.8 | 1095.5 | 661.9 | 485.3 | 460.4 | 439.0 | 441.2 | 457.5 | 474.9 | 481.2 |
| 40° | 1472.1 | 1390.6 | 1144.0 | 612.8 | 461.3 | 436.4 | 410.9 | 410.0 | 422.0 | 439.0 | 445.9 |
| 42.5° | 1631.5 | 1522.5 | 1202.3 | 565.9 | 438.3 | 407.5 | 381.3 | 379.8 | 389.2 | 404.0 | 411.3 |
| 45° | 1841.8 | 1691.3 | 1273.7 | 525.6 | 420.4 | 379.1 | 353.3 | 352.7 | 360.6 | 373.5 | 381.0 |
| 47.5° | 2111.1 | 1925.9 | 1345.2 | 498.2 | 410.9 | 356.8 | 330.3 | 331.6 | 338.5 | 350.2 | 355.5 |
| 50° | 2459.6 | 2231.7 | 1367.0 | 484.3 | 410.9 | 344.8 | 309.9 | 316.2 | 321.8 | 330.6 | 333.8 |
| 52.5° | 2877.5 | 2525.1 | 1295.2 | 471.7 | 413.5 | 346.4 | 292.5 | 306.1 | 310.2 | 317.7 | 319.0 |
| 55° | 3264.8 | 2669.0 | 1113.5 | 454.4 | 414.1 | 356.1 | 277.7 | 297.9 | 305.4 | 308.3 | 308.0 |
| 57.5° | 3489.7 | 2619.6 | 900.3 | 425.1 | 411.6 | 362.8 | 268.3 | 287.8 | 302.3 | 304.2 | 301.4 |
| 60° | 3446.8 | 2446.1 | 662.9 | 402.7 | 393.0 | 360.2 | 265.5 | 272.4 | 295.4 | 298.2 | 294.4 |
| 62.5° | 3116.8 | 2155.1 | 460.1 | 385.4 | 352.1 | 349.2 | 264.5 | 248.1 | 280.3 | 287.2 | 281.8 |
| 65° | *2505.3* | *1696.6* | *325.0* | *331.9* | *308.6* | *325.3* | *259.5* | *222.9* | *262.0* | *271.4* | *263.3* |
| 67.5° | 1817.6 | 1148.1 | 234.6 | 268.9 | 279.6 | 286.6 | 248.1 | 204.7 | 241.2 | 253.8 | 243.1 |
| 70° | 1166.4 | 620.0 | 164.7 | 177.6 | 235.5 | 243.4 | 228.6 | 188.3 | 220.1 | 234.6 | 222.9 |
| 72.5° | 829.1 | 366.2 | 118.4 | 124.4 | 189.3 | 202.8 | 201.2 | 170.0 | 195.5 | 213.2 | 199.3 |
| 75° | 572.2 | 201.8 | 80.0 | 88.8 | 137.3 | 164.7 | 155.2 | 146.1 | 165.6 | 183.6 | 170.0 |
| 77.5° | 358.7 | 90.4 | 47.9 | 61.7 | 90.1 | 129.4 | 106.4 | 113.0 | 129.1 | 145.8 | 131.6 |
| 80° | 199.6 | 35.0 | 26.8 | 40.9 | 49.1 | 94.2 | 58.9 | 72.7 | 95.1 | 107.1 | 95.7 |
| 82.5° | 43.5 | 4.4 | 12.0 | 17.6 | 19.2 | 54.8 | 31.2 | 42.2 | 59.8 | 58.9 | 51.0 |
| 85° | 0.0 | 0.0 | 2.2 | 2.5 | 1.3 | 23.6 | 11.3 | 13.9 | 19.5 | 18.3 | 13.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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**CANDELA DISTRIBUTION (continued):**

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 632.9 | 632.9 | 632.9 | 632.9 | 632.9 | 632.9 | 632.9 | 632.9 | 632.9 | 632.9 | 632.9 |
| 2.5° | 566.8 | 551.4 | 540.0 | 534.4 | 529.7 | 534.1 | 536.6 | 536.6 | 547.3 | 553.6 | 556.1 |
| 5° | 513.6 | 485.9 | 464.8 | 450.6 | 442.1 | 444.9 | 448.1 | 451.6 | 465.1 | 474.2 | 480.2 |
| 7.5° | 476.7 | 434.2 | 402.1 | 382.3 | 371.9 | 373.5 | 375.7 | 378.5 | 391.7 | 400.9 | 408.7 |
| 10° | 469.8 | 408.7 | 363.4 | 337.3 | 324.7 | 322.5 | 321.2 | 320.2 | 328.1 | 335.0 | 341.3 |
| 12.5° | 498.2 | 410.0 | 346.7 | 314.9 | 299.5 | 292.9 | 285.3 | 279.3 | 280.6 | 285.0 | 292.9 |
| 15° | 548.9 | 426.1 | 341.3 | 303.2 | 284.0 | 273.0 | 264.2 | 257.0 | 255.4 | 257.0 | 258.2 |
| 17.5° | 606.8 | 447.8 | 340.7 | 293.2 | 269.2 | 257.9 | 250.7 | 244.0 | 241.8 | 242.2 | 243.7 |
| 20° | 645.2 | 465.1 | 338.8 | 281.8 | 255.1 | 245.0 | 238.7 | 232.1 | 229.9 | 230.5 | 230.8 |
| 22.5° | 649.0 | 474.2 | 336.0 | 269.2 | 240.9 | 232.4 | 226.1 | 220.1 | 219.8 | 219.8 | 221.7 |
| 25° | 628.5 | 474.2 | 330.0 | 257.9 | 227.4 | 219.8 | 214.1 | 206.9 | 208.1 | 208.8 | 211.3 |
| 27.5° | 596.7 | 462.9 | 318.7 | 248.8 | 215.7 | 207.8 | 202.2 | 195.5 | 197.1 | 198.1 | 200.9 |
| 30° | 565.2 | 448.4 | 305.1 | 238.4 | 204.7 | 195.5 | 191.5 | 185.8 | 186.4 | 187.7 | 190.8 |
| 32.5° | 535.9 | 433.0 | 289.1 | 229.9 | 193.7 | 184.5 | 181.4 | 175.1 | 176.0 | 177.3 | 180.7 |
| 35° | 507.0 | 416.0 | 270.2 | 219.8 | 183.6 | 174.5 | 171.9 | 164.7 | 165.3 | 167.2 | 171.0 |
| 37.5° | 475.8 | 398.0 | 254.7 | 209.7 | 173.8 | 164.4 | 161.9 | 154.3 | 154.9 | 157.1 | 161.5 |
| 40° | 443.1 | 380.4 | 239.6 | 199.0 | 163.4 | 154.0 | 151.8 | 143.6 | 144.2 | 146.7 | 151.5 |
| 42.5° | 410.0 | 361.2 | 228.0 | 185.2 | 152.7 | 142.6 | 140.4 | 132.9 | 133.8 | 136.7 | 141.4 |
| 45° | 379.4 | 338.2 | 220.4 | 169.7 | 142.6 | 131.3 | 129.1 | 122.2 | 124.1 | 127.2 | 131.9 |
| 47.5° | 353.3 | 314.6 | 217.3 | 156.8 | 131.9 | 119.7 | 117.8 | 112.1 | 115.3 | 118.7 | 122.5 |
| 50° | 331.0 | 291.9 | 213.2 | 143.6 | 121.9 | 109.6 | 107.7 | 103.9 | 108.0 | 111.5 | 114.9 |
| 52.5° | 314.9 | 266.1 | 204.4 | 131.6 | 113.0 | 101.1 | 100.5 | 98.6 | 102.3 | 105.5 | 108.6 |
| 55° | 301.0 | 239.3 | 190.2 | 121.2 | 105.2 | 93.8 | 94.5 | 93.5 | 96.7 | 99.2 | 102.0 |
| 57.5° | 288.4 | 216.0 | 172.2 | 113.0 | 96.7 | 87.5 | 89.4 | 88.2 | 89.7 | 91.3 | 94.8 |
| 60° | 273.3 | 192.4 | 150.8 | 103.9 | 86.6 | 81.2 | 83.4 | 80.0 | 79.7 | 80.3 | 81.2 |
| 62.5° | 251.0 | 160.6 | 128.5 | 92.6 | 77.8 | 74.3 | 75.3 | 68.6 | 63.6 | 63.6 | 64.6 |
| 65° | *219.8* | *129.1* | *107.7* | *80.0* | *67.7* | *64.9* | *64.2* | *54.8* | *47.9* | *47.2* | *50.1* |
| 67.5° | 183.6 | 106.1 | 89.4 | 67.4 | 56.4 | 54.5 | 55.1 | 48.2 | 41.3 | 40.6 | 43.8 |
| 70° | 149.6 | 87.9 | 72.1 | 53.8 | 43.5 | 45.3 | 48.2 | 41.3 | 34.6 | 33.7 | 36.5 |
| 72.5° | 121.5 | 69.9 | 56.4 | 41.3 | 32.1 | 37.5 | 40.9 | 33.7 | 27.4 | 26.8 | 29.3 |
| 75° | 93.8 | 51.3 | 40.3 | 28.0 | 23.3 | 29.0 | 32.1 | 24.6 | 19.5 | 18.6 | 20.8 |
| 77.5° | 62.7 | 31.8 | 22.7 | 17.6 | 13.9 | 19.8 | 21.4 | 12.9 | 11.3 | 11.0 | 12.6 |
| 80° | 38.1 | 14.8 | 9.8 | 8.5 | 4.7 | 7.2 | 8.5 | 5.4 | 6.0 | 6.3 | 7.6 |
| 82.5° | 19.2 | 4.1 | 1.6 | 0.3 | 0.0 | 0.0 | 2.5 | 1.3 | 2.5 | 3.1 | 4.7 |
| 85° | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 1.6 | 2.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 |
| 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):**

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 632.9 | 632.9 | 632.9 | 632.9 | 632.9 | 632.9 | 632.9 | 632.9 | 632.9 | 632.9 | 632.9 |
| 2.5° | 573.7 | 587.0 | 599.6 | 619.7 | 640.5 | 661.0 | 681.7 | 701.9 | 709.1 | 714.5 | 726.5 |
| 5° | 507.6 | 532.5 | 561.5 | 601.4 | 644.3 | 688.4 | 733.1 | 774.0 | 792.6 | 805.2 | 833.5 |
| 7.5° | 439.3 | 471.7 | 513.3 | 573.4 | 640.5 | 710.7 | 780.9 | 845.5 | 875.4 | 899.7 | 942.8 |
| 10° | 371.6 | 406.8 | 459.4 | 528.1 | 618.8 | 719.5 | 816.5 | 905.3 | 944.1 | 974.6 | 1033.2 |
| 12.5° | 312.1 | 345.1 | 400.2 | 476.1 | 584.8 | 712.6 | 837.0 | 943.7 | 989.4 | 1023.7 | 1088.0 |
| 15° | 270.2 | 293.5 | 342.3 | 424.2 | 544.5 | 690.2 | 838.2 | 962.0 | 1012.1 | 1048.0 | 1103.7 |
| 17.5° | 246.9 | 254.7 | 286.6 | 371.3 | 499.7 | 661.0 | 826.6 | 968.3 | 1021.8 | 1055.2 | 1093.9 |
| 20° | 234.3 | 235.5 | 244.4 | 302.6 | 442.4 | 633.6 | 815.6 | 974.6 | 1031.0 | 1059.0 | 1070.6 |
| 22.5° | 224.2 | 224.2 | 226.4 | 247.5 | 368.4 | 600.8 | 812.1 | 985.6 | 1043.6 | 1060.9 | 1036.9 |
| 25° | 215.1 | 215.1 | 215.7 | 221.4 | 291.9 | 550.7 | 809.9 | 1002.6 | 1060.9 | 1065.6 | 999.8 |
| 27.5° | 205.6 | 205.9 | 205.9 | 209.1 | 235.2 | 482.7 | 800.5 | 1024.7 | 1081.7 | 1071.9 | 964.2 |
| 30° | 196.2 | 196.8 | 196.8 | 199.0 | 208.1 | 403.1 | 781.9 | 1051.1 | 1108.7 | 1080.1 | 928.9 |
| 32.5° | 186.7 | 187.4 | 187.4 | 189.3 | 195.9 | 321.8 | 758.6 | 1075.4 | 1136.1 | 1083.6 | 896.2 |
| 35° | 177.0 | 177.9 | 177.3 | 179.8 | 186.7 | 256.0 | 729.0 | 1099.6 | 1165.7 | 1094.6 | 880.1 |
| 37.5° | 167.2 | 167.8 | 167.5 | 170.0 | 177.9 | 221.1 | 694.7 | 1117.9 | 1206.0 | 1119.1 | 899.3 |
| 40° | 157.4 | 157.1 | 157.1 | 160.0 | 168.5 | 211.0 | 651.5 | 1146.8 | 1264.0 | 1162.3 | 983.1 |
| 42.5° | 147.4 | 147.4 | 146.7 | 149.9 | 160.3 | 203.4 | 610.3 | 1198.8 | 1348.4 | 1230.9 | 1131.7 |
| 45° | 138.2 | 137.9 | 136.7 | 139.5 | 152.4 | 190.2 | 595.8 | 1295.8 | 1473.1 | 1342.1 | 1311.5 |
| 47.5° | 129.4 | 129.1 | 126.0 | 128.5 | 143.0 | 178.2 | 649.9 | 1454.5 | 1646.0 | 1505.5 | 1480.0 |
| 50° | 121.5 | 121.9 | 115.9 | 118.1 | 133.5 | 169.1 | 767.4 | 1660.4 | 1875.5 | 1725.6 | 1639.7 |
| 52.5° | 114.3 | 114.3 | 106.4 | 107.7 | 121.9 | 160.9 | 879.2 | 1883.7 | 2178.4 | 2032.6 | 1825.8 |
| 55° | 107.1 | 106.4 | 97.6 | 98.2 | 110.2 | 149.3 | 895.9 | 2101.6 | 2591.6 | 2494.6 | 2080.2 |
| 57.5° | 98.9 | 97.6 | 89.4 | 89.4 | 99.5 | 140.8 | 776.5 | 2269.1 | 3104.2 | 3173.5 | 2447.0 |
| 60° | 88.8 | 87.9 | 82.5 | 80.9 | 91.0 | 148.3 | 547.9 | 2288.7 | 3434.9 | 4076.3 | 3149.6 |
| 62.5° | 75.9 | 77.1 | 74.3 | 72.1 | 82.8 | 154.0 | 324.7 | 2131.5 | 3354.9 | 4363.5 | 3991.0 |
| 65° | *59.8* | *64.9* | *64.2* | *62.7* | *91.0* | *129.7* | *191.8* | *1829.8* | *3109.6* | *4131.7* | *3819.4* |
| 67.5° | 51.0 | 54.5 | 53.5 | 53.5 | 95.4 | 98.6 | 120.6 | 1429.6 | 2772.0 | 3856.8 | 3411.6 |
| 70° | 43.5 | 46.9 | 43.5 | 43.5 | 72.1 | 59.8 | 83.4 | 998.2 | 2407.7 | 3552.6 | 3143.9 |
| 72.5° | 35.9 | 39.4 | 35.6 | 33.1 | 57.6 | 44.7 | 61.1 | 623.8 | 2061.9 | 3235.9 | 2960.6 |
| 75° | 27.4 | 31.5 | 28.7 | 25.5 | 38.1 | 33.4 | 46.3 | 362.4 | 1708.3 | 2768.5 | 2699.6 |
| 77.5° | 17.3 | 22.7 | 21.4 | 17.9 | 28.0 | 24.2 | 33.4 | 215.7 | 1318.1 | 2163.3 | 2322.0 |
| 80° | 10.7 | 11.7 | 12.0 | 11.3 | 16.1 | 16.4 | 22.7 | 122.8 | 902.2 | 1507.7 | 1814.1 |
| 82.5° | 6.9 | 6.9 | 5.4 | 6.0 | 7.9 | 9.4 | 12.9 | 46.3 | 530.3 | 917.9 | 1262.7 |
| 85° | 5.0 | 4.4 | 2.8 | 2.8 | 3.8 | 4.7 | 5.0 | 14.2 | 215.1 | 362.4 | 493.8 |
| 87.5° | 2.5 | 2.2 | 0.9 | 1.3 | 1.9 | 1.6 | 1.3 | 0.6 | 54.2 | 115.9 | 81.2 |
| 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: P1197852
CATALOG NUMBER: GPC-SB1B-740-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

| | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 360° |
|---|---|---|---|---|---|---|---|---|
| 0° | 632.9 | 632.9 | *632.9* | 632.9 | 632.9 | 632.9 | 632.9 | 632.9 |
| 2.5° | 732.8 | 742.5 | *743.2* | 743.2 | 734.6 | 734.3 | 717.0 | 715.1 |
| 5° | 862.8 | 869.1 | *870.7* | 867.5 | 850.5 | 837.9 | 804.2 | 797.0 |
| 7.5° | 981.8 | 994.4 | *994.4* | 986.9 | 959.2 | 933.3 | 884.5 | 866.3 |
| 10° | 1076.9 | 1091.4 | *1088.3* | 1072.8 | 1037.9 | 1002.3 | 943.1 | 919.2 |
| 12.5° | 1123.2 | 1138.0 | *1129.8* | 1112.2 | 1078.2 | 1040.7 | 978.4 | 951.3 |
| 15° | 1122.3 | 1118.2 | *1109.7* | 1107.5 | 1091.1 | 1062.8 | 1004.5 | 974.9 |
| 17.5° | 1082.3 | 1047.7 | *1041.0* | 1063.1 | 1083.9 | 1076.9 | 1027.2 | 999.5 |
| 20° | 1019.0 | 958.5 | *952.6* | 994.8 | 1054.0 | 1084.2 | 1048.3 | 1022.8 |
| 22.5° | 952.2 | 887.1 | *873.2* | 919.8 | 1008.9 | 1086.4 | 1075.0 | 1049.5 |
| 25° | 888.9 | 823.4 | *809.6* | 853.0 | 958.9 | 1082.6 | 1104.0 | 1082.3 |
| 27.5° | 836.0 | 772.8 | *759.8* | 803.3 | 910.7 | 1071.9 | 1133.0 | 1117.6 |
| 30° | 795.1 | 736.5 | *727.1* | 769.0 | 869.1 | 1058.7 | 1169.8 | 1161.3 |
| 32.5° | 771.2 | 728.4 | *731.8* | 766.1 | 846.8 | 1044.2 | 1205.1 | 1209.2 |
| 35° | 794.8 | 796.7 | *826.9* | 841.1 | 867.5 | 1042.0 | 1253.0 | 1269.0 |
| 37.5° | 912.2 | 977.7 | *1040.4* | 1028.8 | 969.2 | 1067.5 | 1324.4 | 1354.4 |
| 40° | 1112.2 | 1246.7 | *1348.4* | 1304.0 | 1154.1 | 1145.6 | 1427.4 | 1472.1 |
| 42.5° | 1356.6 | 1584.5 | *1752.1* | 1633.0 | 1392.5 | 1282.2 | 1574.5 | 1631.5 |
| 45° | 1614.5 | 2001.2 | *2265.0* | 2017.5 | 1646.6 | 1473.7 | 1797.1 | 1841.8 |
| 47.5° | 1886.2 | 2507.5 | *2848.8* | 2443.9 | 1882.1 | 1691.6 | 2100.7 | 2111.1 |
| 50° | 2183.5 | 3062.7 | *3444.0* | 2869.9 | 2109.5 | 1941.3 | 2471.6 | 2459.6 |
| 52.5° | 2466.6 | 3633.6 | *4026.6* | 3297.9 | 2309.1 | 2251.2 | 2902.1 | 2877.5 |
| 55° | 2736.7 | 4204.2 | *4612.6* | 3709.1 | 2497.4 | 2660.5 | 3413.5 | 3264.8 |
| 57.5° | 3050.1 | 4717.1 | *5216.5* | 4122.3 | 2760.7 | 3192.1 | 3985.3 | 3489.7 |
| 60° | 3513.3 | 5300.0 | *5899.5* | 4688.5 | 3261.4 | 3750.7 | 4190.3 | 3446.8 |
| 62.5° | 4104.6 | 5835.9 | *6396.1* | 5243.3 | 3764.2 | 3855.9 | 3888.3 | 3116.8 |
| 65° | *4219.6* | *5971.7* | *6424.2* | *5391.6* | *3699.4* | *3270.8* | *3174.4* | *2505.3* |
| 67.5° | 3914.8 | 5726.4 | *6032.4* | 5115.5 | 3272.4 | 2527.7 | 2382.2 | 1817.6 |
| 70° | 3572.8 | 5258.7 | *5349.7* | 4645.9 | 2878.1 | 1859.1 | 1608.8 | 1166.4 |
| 72.5° | 3222.3 | 4634.9 | *4446.6* | 4034.7 | 2529.5 | 1353.7 | 1160.4 | 829.1 |
| 75° | 2806.0 | 3814.6 | *3502.6* | 3352.4 | 2094.4 | 1062.5 | 839.5 | 572.2 |
| 77.5° | 2247.1 | 2685.1 | *2601.7* | 2598.5 | 1573.8 | 776.2 | 560.2 | 358.7 |
| 80° | 1585.2 | 1742.6 | *1700.1* | 1957.1 | 1055.8 | 563.0 | 337.3 | 199.6 |
| 82.5° | 767.4 | 963.6 | *989.1* | 1165.4 | 513.6 | 331.3 | 77.8 | 43.5 |
| 85° | 300.4 | 464.8 | *392.0* | 442.4 | 144.2 | 92.3 | 1.9 | 0.0 |
| 87.5° | 33.7 | 53.8 | *49.4* | 39.0 | 17.6 | 3.8 | 0.0 | 0.0 |
| 90° | 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-79-2008: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGRAW-EDISON

Report Number: SP1-1908-441-3-R4

Test Date: 10/02/2019

Luminaire Tested: SA1C-740-U-5WQ

Data in this report applies to families of products SA1C-740-U-5WQ

Data valid for all products using SA and SB light squares

Report Generated By FNC07603 / LDUCLS01DT446
Version: v6.13

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

## Test Information

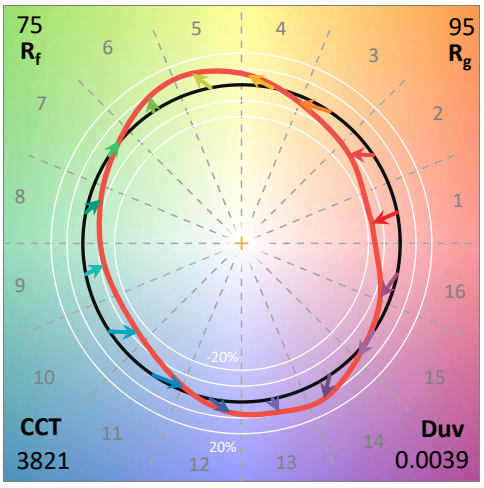
| | |
|---|---|
| Test Method: | LM-79-2008 |
| Report Number: | SP1-1908-441-3-R4 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 - 76IN SPHERE |
| Measurement Geometry: | 4π |
| Issue Date: | 11/05/2024 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | **SA1C-740-U-5WQ** |
| Description: | McGRAW EDISON ROADWAY AND AREA LUMINAIRE |

***THIS IS A REVISION OF SP1-1908-441-3-R3. TO UPDATE THE CATALOG INFORMATION.***TESTED IN SITU. ROADWAY AND AREA LUMINAIRE. (1) 70 CRI, 4000K, 1050MA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS.

## Spectral Parameters

| | | | | | |
|---|---|---|---|---|---|
| CCT (K): | 3821 | CRI (Ra): | 72.3 | | |
| CIE u': | 0.2264 | R1: | 68.5 | R9: | -33.5 |
| CIE v': | 0.5098 | R2: | 78.5 | R10: | 50.8 |
| Duv: | 0.0039 | R3: | 88.2 | R11: | 69.2 |
| CIE x: | 0.3918 | R4: | 72.2 | R12: | 48.9 |
| CIE y: | 0.3921 | R5: | 69.0 | R13: | 69.8 |
| CIE z: | 0.2161 | R6: | 71.0 | R14: | 93.4 |
| Peak Wavelength (nm): | 585 | R7: | 80.4 | | |
| Dominant Wavelength (nm): | 577 | R8: | 50.4 | | |
| Purity: | 35.4 | | | | |

| | |
|---|---|
| Rf: | 75.5 |
| Rg: | 94.8 |




## Test Conditions

| | |
|---|---|
| Stabilization Time: | 67M |
| Operation Time: | 12H |
| Room Temperature (°C) / RH%: | 25.0./44% |
| Sphere Temperature (°C): | 25.7 |

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

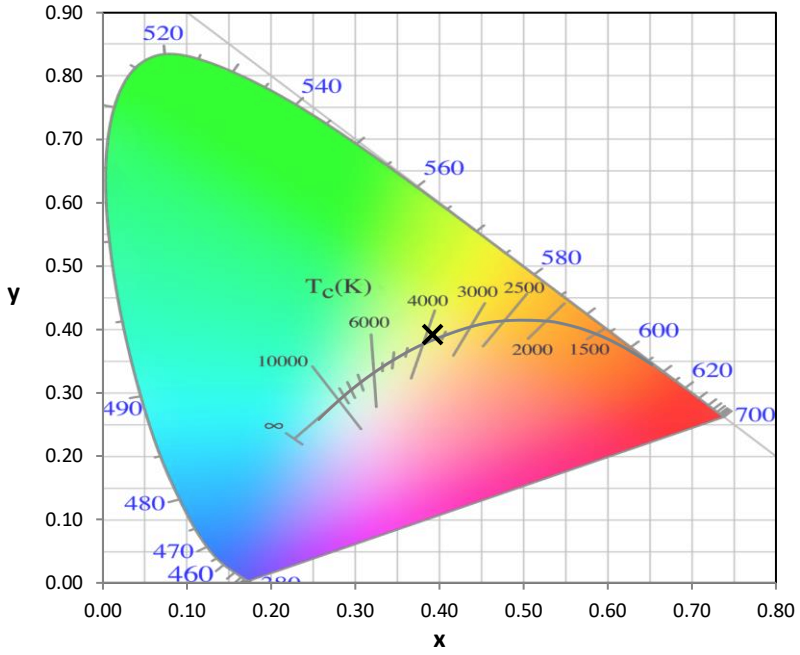
REPORT NUMBER: SP1-1908-441-3-R4

| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/28/2019 | 12/28/2019 |
| Power Meter | IN0071 | 12/5/2018 | 12/5/2019 |
| AC Power Source | IN0063 | 12/5/2018 | 12/5/2019 |
| DC Power Source | IN0208 | 12/5/2018 | 12/5/2019 |
| Sphere Thermometer | IN0085 | 12/5/2018 | 12/5/2019 |
| Room Thermometer | IN0046 | 12/5/2018 | 12/5/2019 |

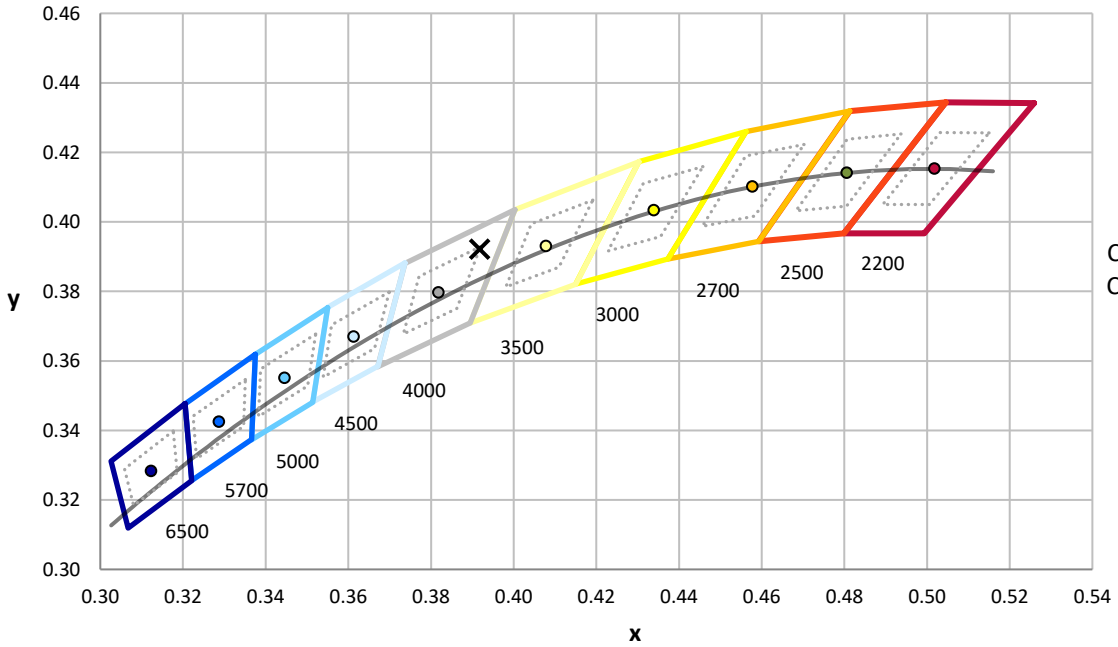
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

REPORT NUMBER: SP1-1908-441-3-R4

## CIE 1931 Chromaticity Diagram




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



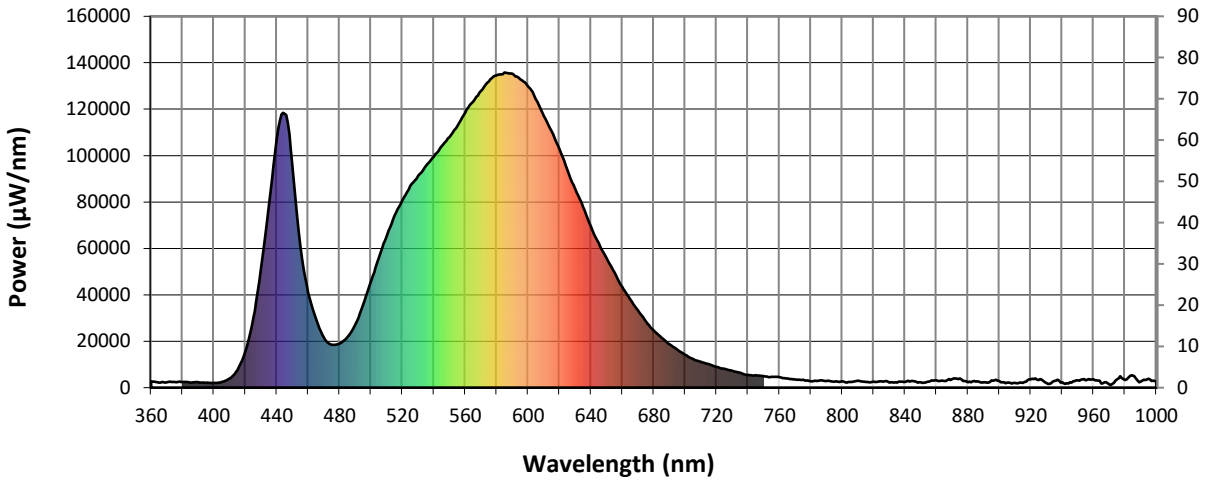

CCT = 3821K
CIE x = 0.3918
CIE y = 0.3921
Duv = 0.0039

Point lies inside the ANSI 4000K 7-step quadrangle

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

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## Photopic Flux vs. Wavelength



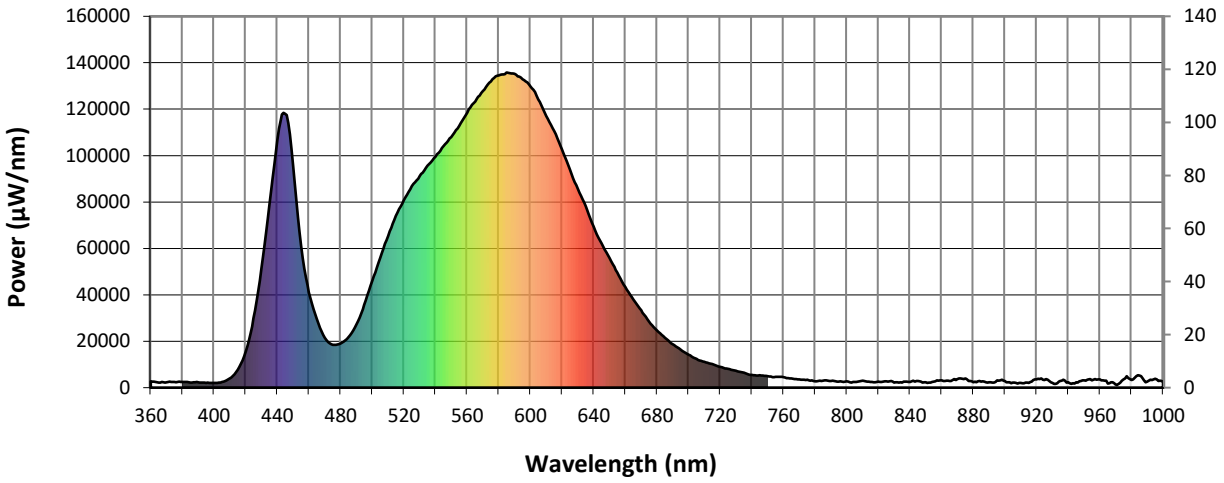

######

| λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 2662 | NR | 490 | 27227 | NR | 620 | 102725 | NR | 750 | 4998 | NR | 880 | 2294 | NR |
| 365 | 2227 | NR | 495 | 35672 | NR | 625 | 94018 | NR | 755 | 4638 | NR | 885 | 2526 | NR |
| 370 | 2351 | NR | 500 | 45857 | NR | 630 | 85530 | NR | 760 | 4579 | NR | 890 | 2275 | NR |
| 375 | 2487 | NR | 505 | 55772 | NR | 635 | 77990 | NR | 765 | 3952 | NR | 895 | 3151 | NR |
| 380 | 2507 | NR | 510 | 65358 | NR | 640 | 69405 | NR | 770 | 3495 | NR | 900 | 2915 | NR |
| 385 | 2244 | NR | 515 | 73945 | NR | 645 | 62112 | NR | 775 | 3353 | NR | 905 | 2197 | NR |
| 390 | 2299 | NR | 520 | 80747 | NR | 650 | 55830 | NR | 780 | 2778 | NR | 910 | 2048 | NR |
| 395 | 2056 | NR | 525 | 86794 | NR | 655 | 49542 | NR | 785 | 2954 | NR | 915 | 2045 | NR |
| 400 | 2025 | NR | 530 | 91185 | NR | 660 | 43371 | NR | 790 | 2859 | NR | 920 | 3527 | NR |
| 405 | 2414 | NR | 535 | 95640 | NR | 665 | 38089 | NR | 795 | 2638 | NR | 925 | 3296 | NR |
| 410 | 3944 | NR | 540 | 99533 | NR | 670 | 33284 | NR | 800 | 2710 | NR | 930 | 2096 | NR |
| 415 | 7705 | NR | 545 | 104097 | NR | 675 | 28574 | NR | 805 | 2390 | NR | 935 | 2810 | NR |
| 420 | 15513 | NR | 550 | 107982 | NR | 680 | 24590 | NR | 810 | 2947 | NR | 940 | 2304 | NR |
| 425 | 29927 | NR | 555 | 112790 | NR | 685 | 21480 | NR | 815 | 2387 | NR | 945 | 2250 | NR |
| 430 | 51389 | NR | 560 | 118428 | NR | 690 | 18698 | NR | 820 | 2557 | NR | 950 | 3082 | NR |
| 435 | 78905 | NR | 565 | 123208 | NR | 695 | 16372 | NR | 825 | 2693 | NR | 955 | 3173 | NR |
| 440 | 106921 | NR | 570 | 127740 | NR | 700 | 14200 | NR | 830 | 2208 | NR | 960 | 3569 | NR |
| 445 | 118008 | NR | 575 | 131879 | NR | 705 | 12325 | NR | 835 | 2160 | NR | 965 | 1744 | NR |
| 450 | 95722 | NR | 580 | 134489 | NR | 710 | 11122 | NR | 840 | 2493 | NR | 970 | 1283 | NR |
| 455 | 61053 | NR | 585 | 135793 | NR | 715 | 10157 | NR | 845 | 2809 | NR | 975 | 3622 | NR |
| 460 | 41109 | NR | 590 | 135243 | NR | 720 | 8957 | NR | 850 | 2287 | NR | 980 | 3346 | NR |
| 465 | 29591 | NR | 595 | 132928 | NR | 725 | 8084 | NR | 855 | 2564 | NR | 985 | 5229 | NR |
| 470 | 21545 | NR | 600 | 129738 | NR | 730 | 7241 | NR | 860 | 3166 | NR | 990 | 2613 | NR |
| 475 | 18425 | NR | 605 | 124239 | NR | 735 | 6387 | NR | 865 | 2867 | NR | 995 | 3838 | NR |
| 480 | 19056 | NR | 610 | 116984 | NR | 740 | 5430 | NR | 870 | 3742 | NR | 1000 | 2626 | NR |
| 485 | 21740 | NR | 615 | 110543 | NR | 745 | 5284 | NR | 875 | 3912 | NR | | | |

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

REPORT NUMBER: SP1-1908-441-3-R4

## Scotopic Flux vs. Wavelength



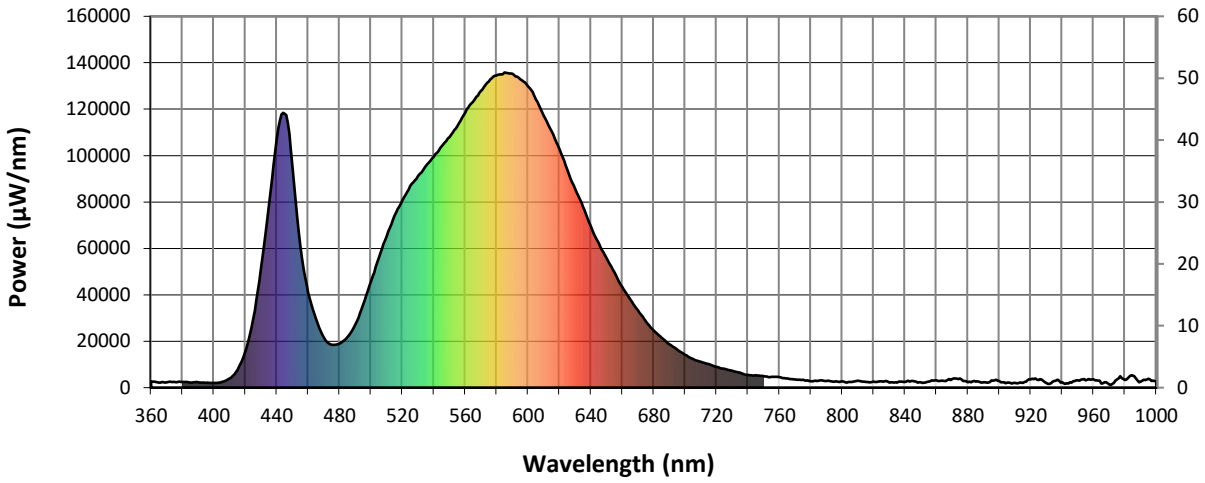

**Scotopic Lumens: 10930.8** **S/P: 1.47**

| λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 2662 | NR | 490 | 27227 | NR | 620 | 102725 | NR | 750 | 4998 | NR | 880 | 2294 | NR |
| 365 | 2227 | NR | 495 | 35672 | NR | 625 | 94018 | NR | 755 | 4638 | NR | 885 | 2526 | NR |
| 370 | 2351 | NR | 500 | 45857 | NR | 630 | 85530 | NR | 760 | 4579 | NR | 890 | 2275 | NR |
| 375 | 2487 | NR | 505 | 55772 | NR | 635 | 77990 | NR | 765 | 3952 | NR | 895 | 3151 | NR |
| 380 | 2507 | NR | 510 | 65358 | NR | 640 | 69405 | NR | 770 | 3495 | NR | 900 | 2915 | NR |
| 385 | 2244 | NR | 515 | 73945 | NR | 645 | 62112 | NR | 775 | 3353 | NR | 905 | 2197 | NR |
| 390 | 2299 | NR | 520 | 80747 | NR | 650 | 55830 | NR | 780 | 2778 | NR | 910 | 2048 | NR |
| 395 | 2056 | NR | 525 | 86794 | NR | 655 | 49542 | NR | 785 | 2954 | NR | 915 | 2045 | NR |
| 400 | 2025 | NR | 530 | 91185 | NR | 660 | 43371 | NR | 790 | 2859 | NR | 920 | 3527 | NR |
| 405 | 2414 | NR | 535 | 95640 | NR | 665 | 38089 | NR | 795 | 2638 | NR | 925 | 3296 | NR |
| 410 | 3944 | NR | 540 | 99533 | NR | 670 | 33284 | NR | 800 | 2710 | NR | 930 | 2096 | NR |
| 415 | 7705 | NR | 545 | 104097 | NR | 675 | 28574 | NR | 805 | 2390 | NR | 935 | 2810 | NR |
| 420 | 15513 | NR | 550 | 107982 | NR | 680 | 24590 | NR | 810 | 2947 | NR | 940 | 2304 | NR |
| 425 | 29927 | NR | 555 | 112790 | NR | 685 | 21480 | NR | 815 | 2387 | NR | 945 | 2250 | NR |
| 430 | 51389 | NR | 560 | 118428 | NR | 690 | 18698 | NR | 820 | 2557 | NR | 950 | 3082 | NR |
| 435 | 78905 | NR | 565 | 123208 | NR | 695 | 16372 | NR | 825 | 2693 | NR | 955 | 3173 | NR |
| 440 | 106921 | NR | 570 | 127740 | NR | 700 | 14200 | NR | 830 | 2208 | NR | 960 | 3569 | NR |
| 445 | 118008 | NR | 575 | 131879 | NR | 705 | 12325 | NR | 835 | 2160 | NR | 965 | 1744 | NR |
| 450 | 95722 | NR | 580 | 134489 | NR | 710 | 11122 | NR | 840 | 2493 | NR | 970 | 1283 | NR |
| 455 | 61053 | NR | 585 | 135793 | NR | 715 | 10157 | NR | 845 | 2809 | NR | 975 | 3622 | NR |
| 460 | 41109 | NR | 590 | 135243 | NR | 720 | 8957 | NR | 850 | 2287 | NR | 980 | 3346 | NR |
| 465 | 29591 | NR | 595 | 132928 | NR | 725 | 8084 | NR | 855 | 2564 | NR | 985 | 5229 | NR |
| 470 | 21545 | NR | 600 | 129738 | NR | 730 | 7241 | NR | 860 | 3166 | NR | 990 | 2613 | NR |
| 475 | 18425 | NR | 605 | 124239 | NR | 735 | 6387 | NR | 865 | 2867 | NR | 995 | 3838 | NR |
| 480 | 19056 | NR | 610 | 116984 | NR | 740 | 5430 | NR | 870 | 3742 | NR | 1000 | 2626 | NR |
| 485 | 21740 | NR | 615 | 110543 | NR | 745 | 5284 | NR | 875 | 3912 | NR | | | |

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

REPORT NUMBER: SP1-1908-441-3-R4

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: 4115.9** **M/P: 0.55**

| λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 2662 | NR | 490 | 27227 | NR | 620 | 102725 | NR | 750 | 4998 | NR | 880 | 2294 | NR |
| 365 | 2227 | NR | 495 | 35672 | NR | 625 | 94018 | NR | 755 | 4638 | NR | 885 | 2526 | NR |
| 370 | 2351 | NR | 500 | 45857 | NR | 630 | 85530 | NR | 760 | 4579 | NR | 890 | 2275 | NR |
| 375 | 2487 | NR | 505 | 55772 | NR | 635 | 77990 | NR | 765 | 3952 | NR | 895 | 3151 | NR |
| 380 | 2507 | NR | 510 | 65358 | NR | 640 | 69405 | NR | 770 | 3495 | NR | 900 | 2915 | NR |
| 385 | 2244 | NR | 515 | 73945 | NR | 645 | 62112 | NR | 775 | 3353 | NR | 905 | 2197 | NR |
| 390 | 2299 | NR | 520 | 80747 | NR | 650 | 55830 | NR | 780 | 2778 | NR | 910 | 2048 | NR |
| 395 | 2056 | NR | 525 | 86794 | NR | 655 | 49542 | NR | 785 | 2954 | NR | 915 | 2045 | NR |
| 400 | 2025 | NR | 530 | 91185 | NR | 660 | 43371 | NR | 790 | 2859 | NR | 920 | 3527 | NR |
| 405 | 2414 | NR | 535 | 95640 | NR | 665 | 38089 | NR | 795 | 2638 | NR | 925 | 3296 | NR |
| 410 | 3944 | NR | 540 | 99533 | NR | 670 | 33284 | NR | 800 | 2710 | NR | 930 | 2096 | NR |
| 415 | 7705 | NR | 545 | 104097 | NR | 675 | 28574 | NR | 805 | 2390 | NR | 935 | 2810 | NR |
| 420 | 15513 | NR | 550 | 107982 | NR | 680 | 24590 | NR | 810 | 2947 | NR | 940 | 2304 | NR |
| 425 | 29927 | NR | 555 | 112790 | NR | 685 | 21480 | NR | 815 | 2387 | NR | 945 | 2250 | NR |
| 430 | 51389 | NR | 560 | 118428 | NR | 690 | 18698 | NR | 820 | 2557 | NR | 950 | 3082 | NR |
| 435 | 78905 | NR | 565 | 123208 | NR | 695 | 16372 | NR | 825 | 2693 | NR | 955 | 3173 | NR |
| 440 | 106921 | NR | 570 | 127740 | NR | 700 | 14200 | NR | 830 | 2208 | NR | 960 | 3569 | NR |
| 445 | 118008 | NR | 575 | 131879 | NR | 705 | 12325 | NR | 835 | 2160 | NR | 965 | 1744 | NR |
| 450 | 95722 | NR | 580 | 134489 | NR | 710 | 11122 | NR | 840 | 2493 | NR | 970 | 1283 | NR |
| 455 | 61053 | NR | 585 | 135793 | NR | 715 | 10157 | NR | 845 | 2809 | NR | 975 | 3622 | NR |
| 460 | 41109 | NR | 590 | 135243 | NR | 720 | 8957 | NR | 850 | 2287 | NR | 980 | 3346 | NR |
| 465 | 29591 | NR | 595 | 132928 | NR | 725 | 8084 | NR | 855 | 2564 | NR | 985 | 5229 | NR |
| 470 | 21545 | NR | 600 | 129738 | NR | 730 | 7241 | NR | 860 | 3166 | NR | 990 | 2613 | NR |
| 475 | 18425 | NR | 605 | 124239 | NR | 735 | 6387 | NR | 865 | 2867 | NR | 995 | 3838 | NR |
| 480 | 19056 | NR | 610 | 116984 | NR | 740 | 5430 | NR | 870 | 3742 | NR | 1000 | 2626 | NR |
| 485 | 21740 | NR | 615 | 110543 | NR | 745 | 5284 | NR | 875 | 3912 | NR | | | |

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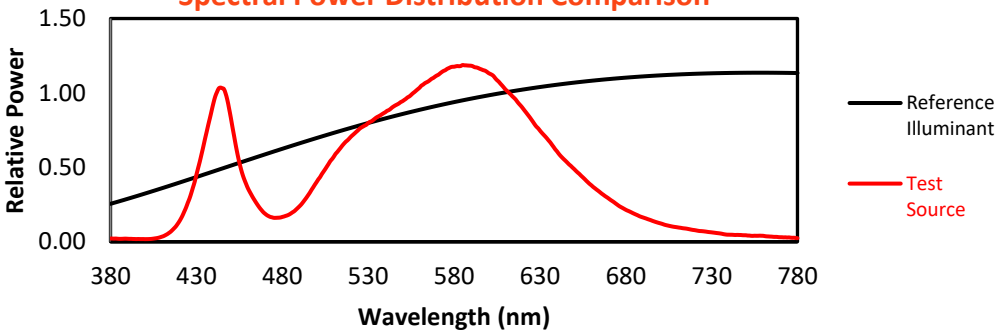
REPORT NUMBER: SP1-1908-441-3-R4

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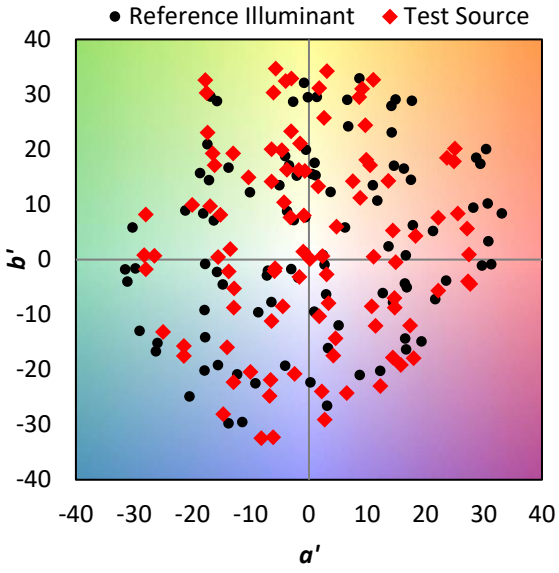
## Summary

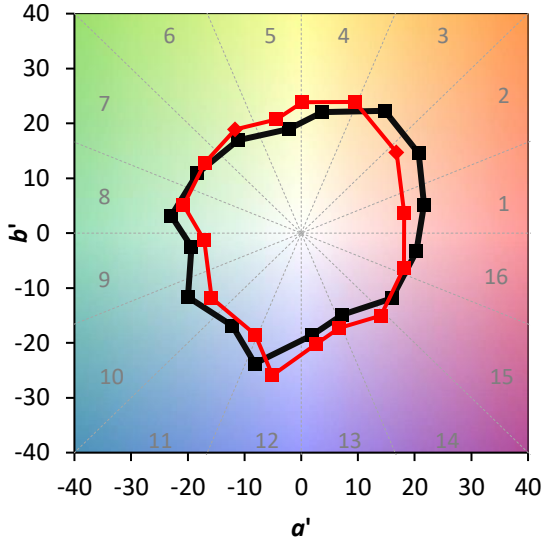
$R_f$ = 75.5
$R_g$ = 94.8
CIE $R_a$ = 72.3
$R_9$ = -33.5

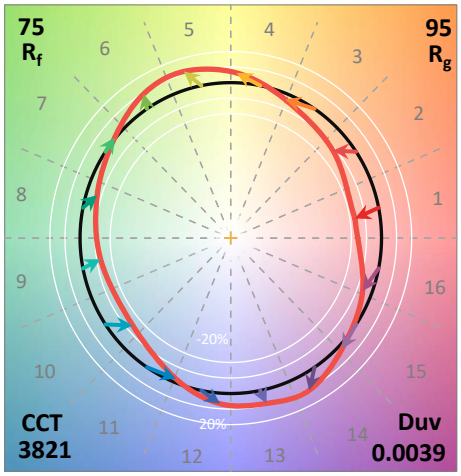
## Spectral Power Distribution Comparison

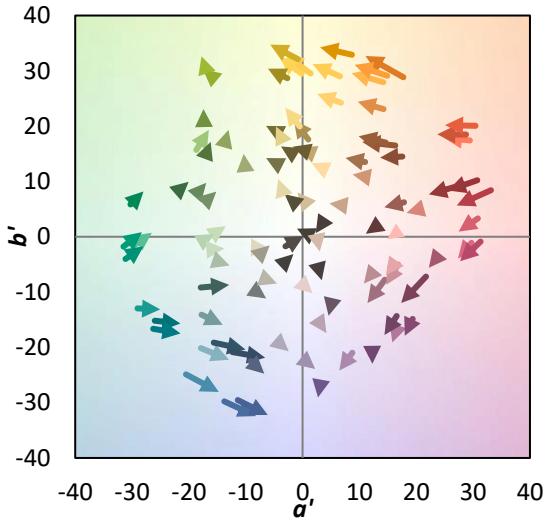



## Color Vector Graphics



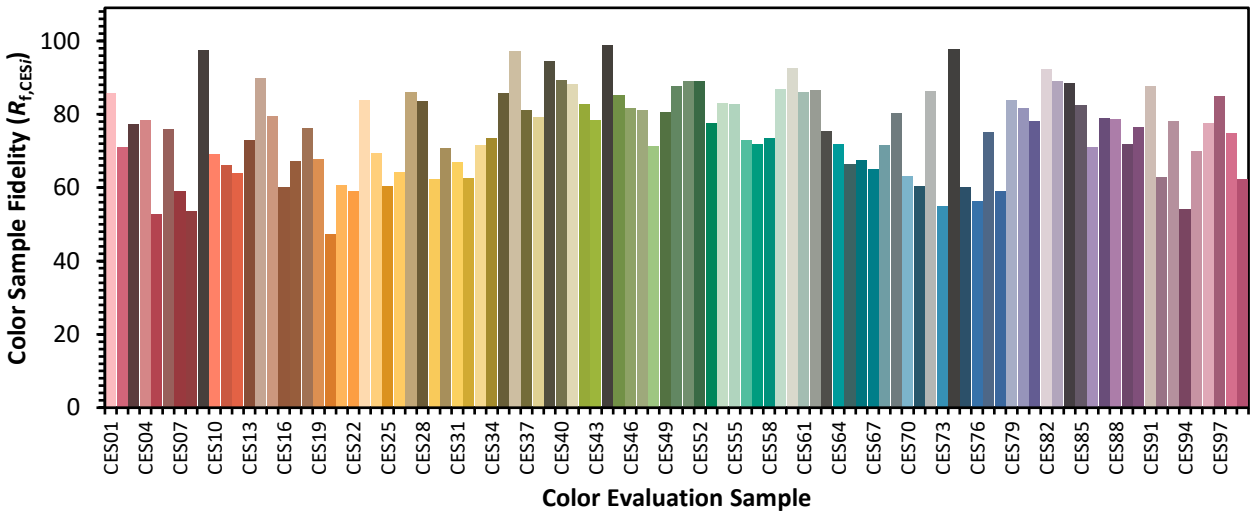
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## Individual Sample Fidelity Index ($R_{f,i}$)

| | | | |
|---|---|---|---|
| CES01 = 85 | CES26 = 64 | CES51 = 89 | CES76 = 56 |
| CES02 = 61 | CES27 = 86 | CES52 = 89 | CES77 = 75 |
| CES03 = 30 | CES28 = 83 | CES53 = 78 | CES78 = 59 |
| CES04 = 70 | CES29 = 62 | CES54 = 83 | CES79 = 84 |
| CES05 = 47 | CES30 = 71 | CES55 = 83 | CES80 = 82 |
| CES06 = 50 | CES31 = 67 | CES56 = 73 | CES81 = 78 |
| CES07 = 40 | CES32 = 63 | CES57 = 72 | CES82 = 92 |
| CES08 = 39 | CES33 = 72 | CES58 = 73 | CES83 = 89 |
| CES09 = 29 | CES34 = 73 | CES59 = 87 | CES84 = 89 |
| CES10 = 74 | CES35 = 86 | CES60 = 92 | CES85 = 83 |
| CES11 = 57 | CES36 = 97 | CES61 = 86 | CES86 = 71 |
| CES12 = 63 | CES37 = 81 | CES62 = 87 | CES87 = 79 |
| CES13 = 42 | CES38 = 79 | CES63 = 75 | CES88 = 79 |
| CES14 = 74 | CES39 = 94 | CES64 = 72 | CES89 = 72 |
| CES15 = 71 | CES40 = 89 | CES65 = 66 | CES90 = 77 |
| CES16 = 46 | CES41 = 88 | CES66 = 67 | CES91 = 88 |
| CES17 = 49 | CES42 = 83 | CES67 = 65 | CES92 = 63 |
| CES18 = 56 | CES43 = 78 | CES68 = 71 | CES93 = 78 |
| CES19 = 72 | CES44 = 99 | CES69 = 80 | CES94 = 54 |
| CES20 = 65 | CES45 = 85 | CES70 = 63 | CES95 = 70 |
| CES21 = 86 | CES46 = 82 | CES71 = 60 | CES96 = 78 |
| CES22 = 78 | CES47 = 81 | CES72 = 86 | CES97 = 85 |
| CES23 = 92 | CES48 = 71 | CES73 = 55 | CES98 = 75 |
| CES24 = 91 | CES49 = 81 | CES74 = 98 | CES99 = 62 |
| CES25 = 72 | CES50 = 88 | CES75 = 60 | |

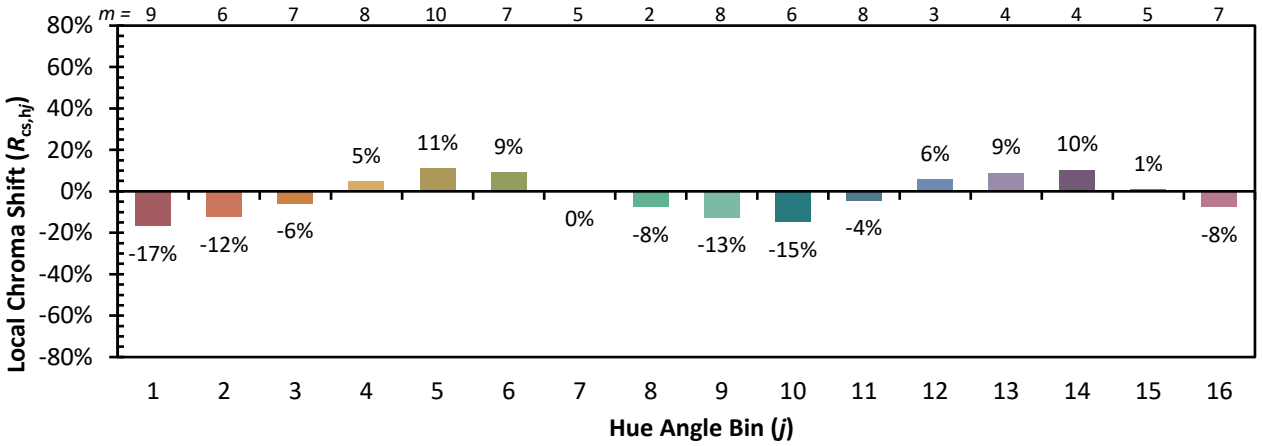


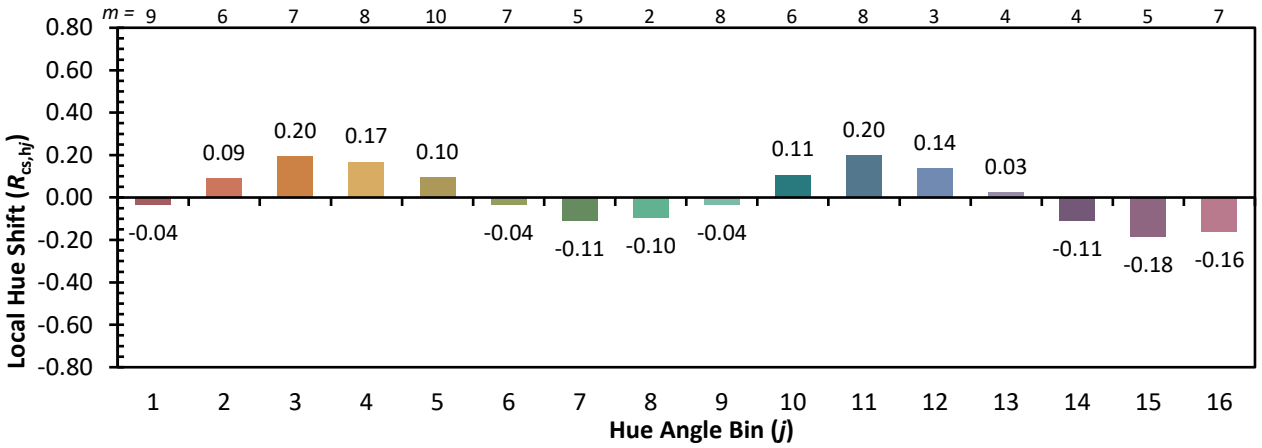
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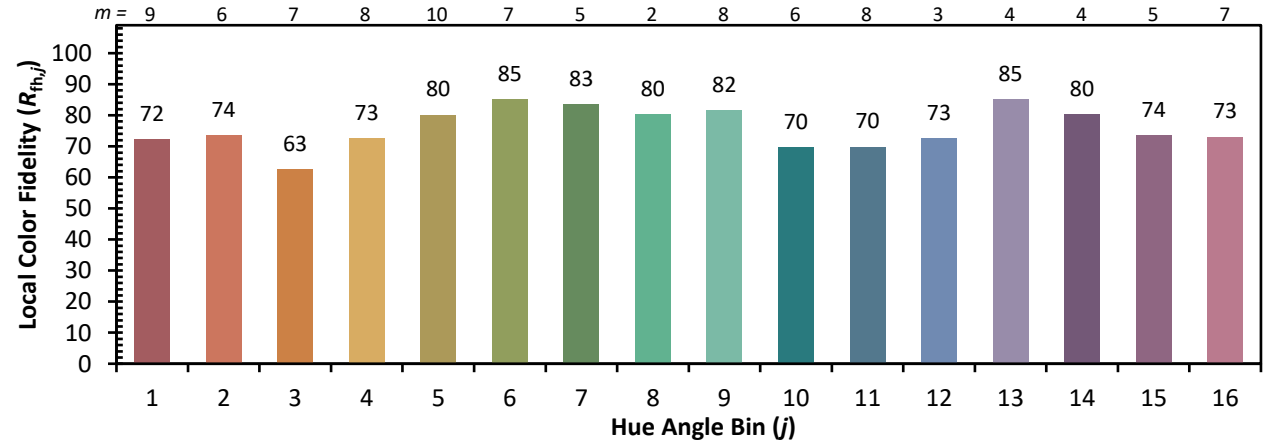
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## Color Rendition by Hue-Angle Bin



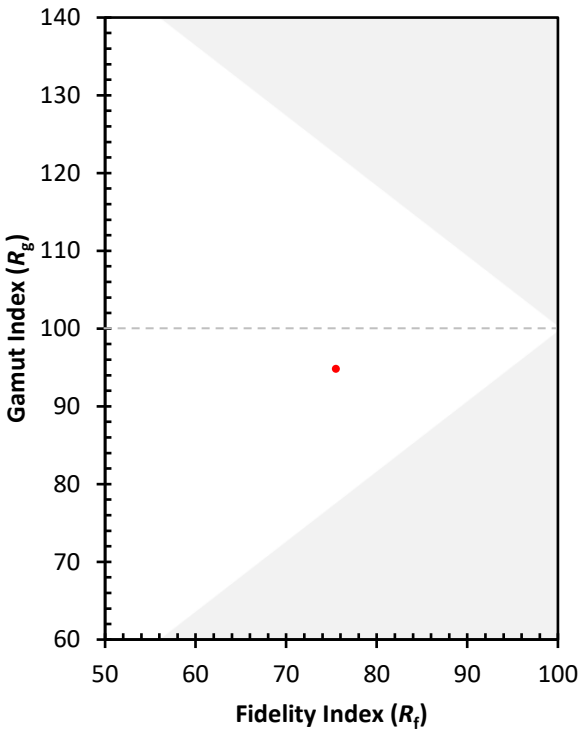



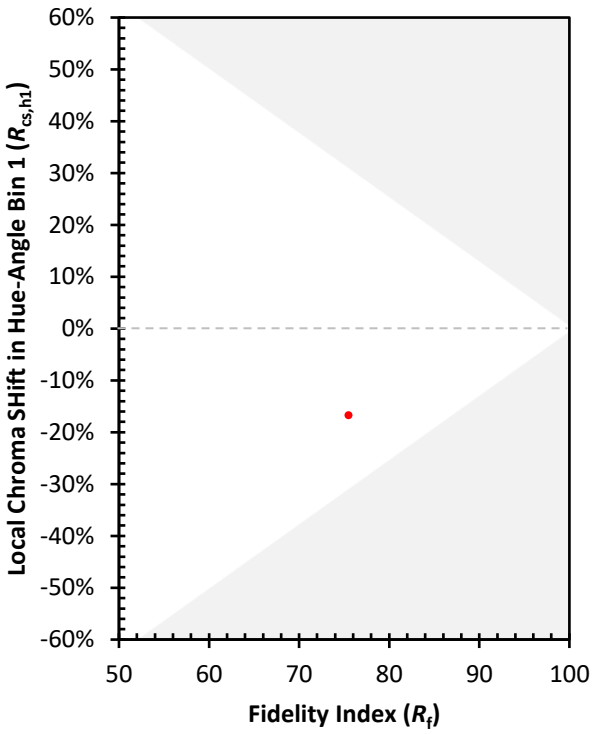
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### Measure Comparisons




(END OF REPORT)