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: P1202588

Luminaire Tested: GWC-SB2A-727-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: | P1202588 |
| | 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: | GWC-SB2A-727-U-SLR-HSS |
| Description: | GALLEON WALL LUMINAIRE |
| | (2) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT ELIMINATOF |
| | RIGHT OPTICS WITH HOUSE SIDE SHIELD |
| Light Source: | - |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 6349 lumens |
| Efficiency: | N/A |
| Efficacy: | 110.8 lumens/watt |
| Luminous Opening: | Rectangular (W 1' x L: 0.5' x H: 0') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B1 - U0 - G2 |

| | |
|---|---|
| Input Watts (W): | 57.3 |
| Input Voltage (V): | 120.0 |
| Input Current (Ain): | 0.484 |
| Voltage Rise (V): | NR |
| Power Factor: | 0.994 |
| Total Harmonic Distortion (THDi): | 9.038 |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

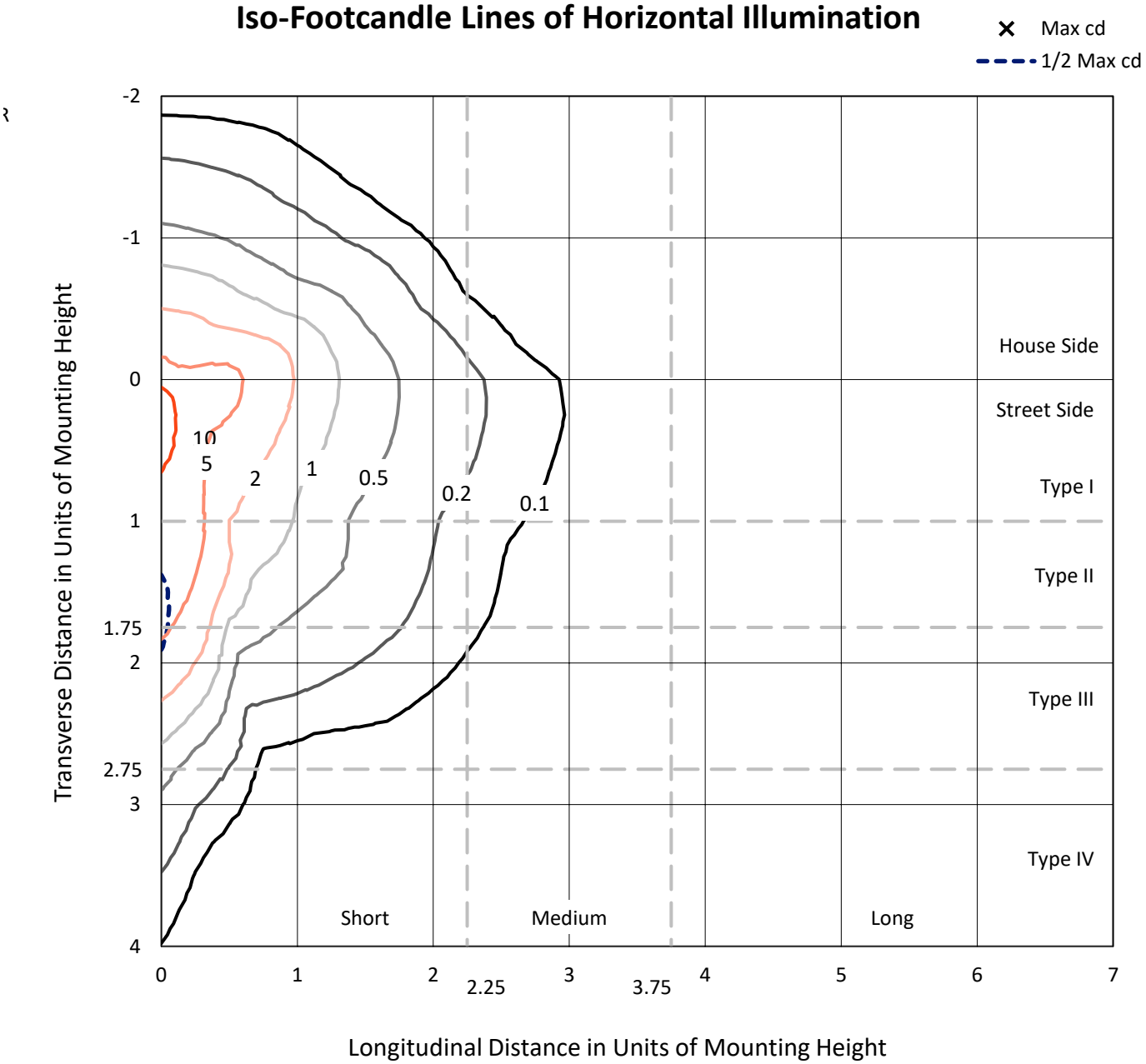


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REPORT NUMBER: P1202588
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## Iso-Footcandle Lines of Horizontal Illumination



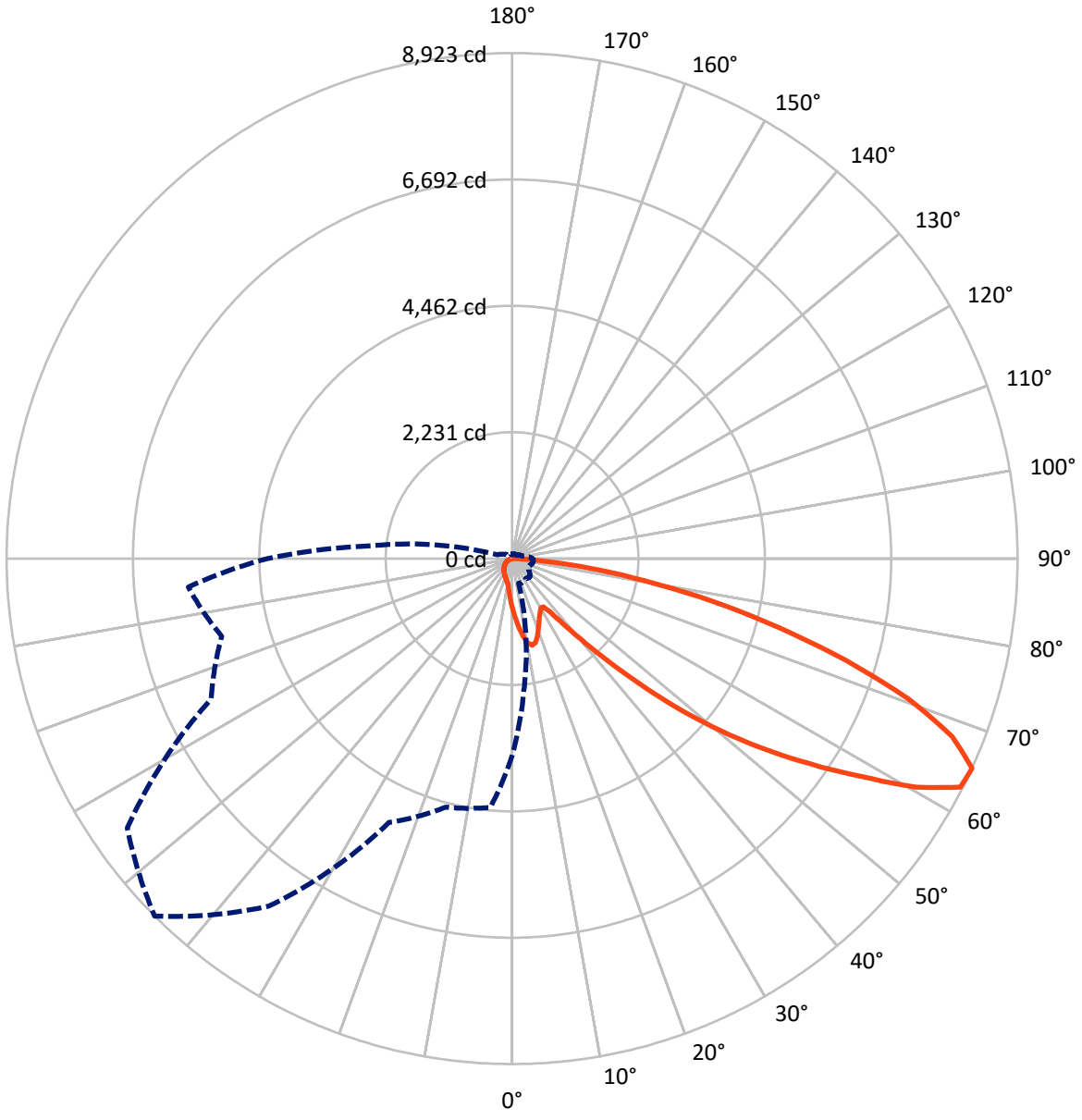

Based on 10 foot mounting height. Maximum calculated value = 15.8 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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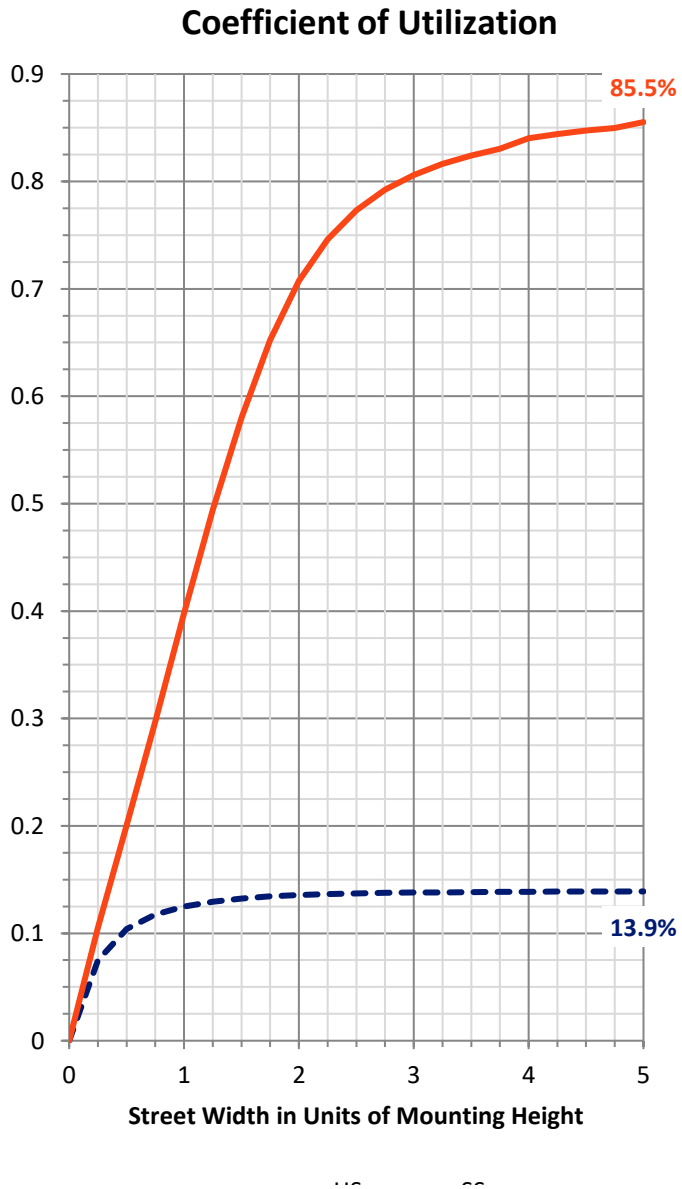
REPORT NUMBER: P1202588
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 889.1 | 0.0 | 889.1 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| **Street Side** | Lumens | 5459.9 | 0.0 | 5459.9 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| **Total** | Lumens | 6349.0 | 0.0 | 6349.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 86.6 | 1.4 |
| 10°-20° | 259.5 | 4.1 |
| 20°-30° | 382.2 | 6.0 |
| 30°-40° | 491.1 | 7.7 |
| 40°-50° | 794.2 | 12.5 |
| 50°-60° | 1392.7 | 21.9 |
| 60°-70° | 1742.7 | 27.4 |
| 70°-80° | 1018.3 | 16.0 |
| 80°-90° | 181.7 | 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° | 6349.0 | 100.0 |
| 0°-180° | 6349.0 | 100.0 |



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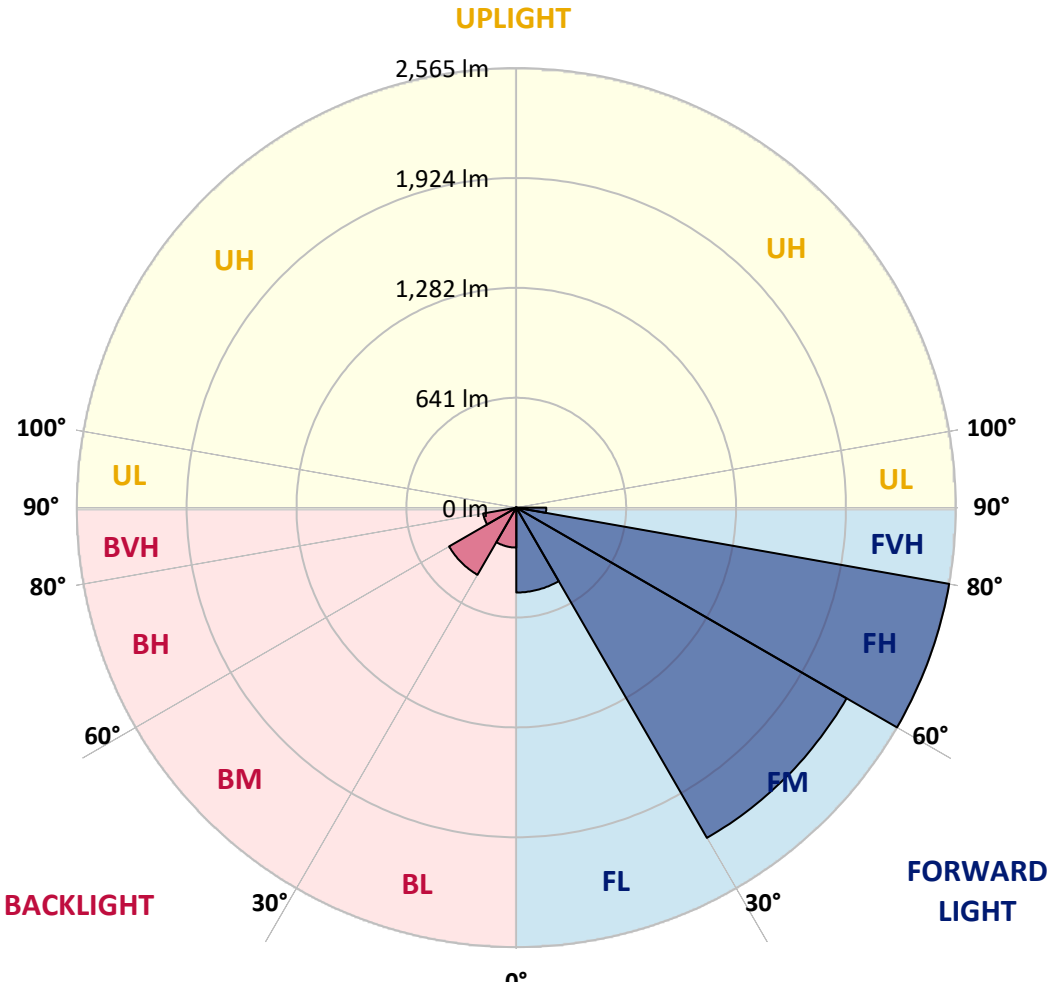
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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 495.2 | 7.8 | | | |
| FM | (30°-60°) | 2225.3 | 35.0 | | | |
| FH | (60°-80°) | 2564.7 | 40.4 | | | G2/5000 |
| FVH | (80°-90°) | 174.7 | 2.8 | | | G2/225 |
| BL | (0°-30°) | 233.1 | 3.7 | B1/500 | | |
| BM | (30°-60°) | 452.8 | 7.1 | B1/1000 | | |
| BH | (60°-80°) | 196.3 | 3.1 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 7.0 | 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° | 879.1 | 879.1 | 879.1 | 879.1 | 879.1 | 879.1 | 879.1 | 879.1 | 879.1 | 879.1 | 879.1 |
| 2.5° | 993.3 | 976.2 | 966.2 | 941.2 | 916.3 | 896.2 | 869.1 | 851.1 | 829.7 | 809.2 | 790.8 |
| 5° | 1107.0 | 1079.5 | 1046.2 | 1000.7 | 959.2 | 916.7 | 875.6 | 835.0 | 792.1 | 752.7 | 728.7 |
| 7.5° | 1203.2 | 1163.4 | 1104.8 | 1044.5 | 991.5 | 940.4 | 892.3 | 838.5 | 786.4 | 724.7 | 691.9 |
| 10° | 1276.7 | 1226.0 | 1149.0 | 1069.8 | 1009.0 | 957.4 | 910.6 | 865.1 | 812.7 | 738.3 | 697.2 |
| 12.5° | 1321.3 | 1267.1 | 1175.7 | 1083.0 | 1013.4 | 955.7 | 919.4 | 899.3 | 878.7 | 804.8 | 756.7 |
| 15° | 1354.1 | 1295.5 | 1194.5 | 1092.1 | 1003.3 | 932.5 | 905.8 | 925.9 | 949.6 | 902.3 | 846.8 |
| 17.5° | 1388.2 | 1326.6 | 1219.0 | 1096.1 | 976.2 | 887.4 | 876.1 | 928.1 | 982.8 | 980.6 | 925.5 |
| 20° | 1420.6 | 1359.4 | 1240.4 | 1093.4 | 932.5 | 832.8 | 842.8 | 909.3 | 972.7 | 999.4 | 969.7 |
| 22.5° | 1457.8 | 1393.1 | 1261.0 | 1083.4 | 875.6 | 781.6 | 813.1 | 879.6 | 935.1 | 966.6 | 957.4 |
| 25° | 1503.3 | 1435.5 | 1289.8 | 1068.5 | 814.4 | 739.2 | 782.9 | 845.0 | 890.1 | 911.9 | 911.5 |
| 27.5° | 1552.3 | 1486.2 | 1328.3 | 1060.6 | 765.0 | 709.0 | 748.8 | 803.9 | 844.1 | 859.5 | 859.5 |
| 30° | 1613.1 | 1545.3 | 1373.8 | 1051.9 | 732.6 | 691.5 | 713.4 | 756.2 | 795.6 | 810.9 | 810.9 |
| 32.5° | 1679.5 | 1610.9 | 1417.5 | 1030.9 | 712.9 | 678.4 | 678.8 | 705.9 | 741.8 | 760.2 | 762.8 |
| 35° | 1762.6 | 1689.6 | 1464.3 | 985.0 | 697.2 | 663.1 | 645.1 | 658.3 | 688.0 | 709.9 | 715.6 |
| 37.5° | 1881.2 | 1792.8 | 1521.6 | 919.4 | 674.0 | 639.4 | 609.7 | 612.8 | 635.5 | 659.6 | 668.3 |
| 40° | 2044.8 | 1931.5 | 1589.0 | 851.1 | 640.8 | 606.2 | 570.8 | 569.5 | 586.1 | 609.7 | 619.3 |
| 42.5° | 2266.1 | 2114.7 | 1669.9 | 786.0 | 608.8 | 566.0 | 529.7 | 527.5 | 540.6 | 561.2 | 571.2 |
| 45° | 2558.2 | 2349.2 | 1769.2 | 730.0 | 583.9 | 526.6 | 490.7 | 489.9 | 500.8 | 518.7 | 529.2 |
| 47.5° | 2932.2 | 2675.0 | 1868.5 | 691.9 | 570.8 | 495.6 | 458.8 | 460.6 | 470.2 | 486.4 | 493.8 |
| 50° | 3416.4 | 3099.7 | 1898.7 | 672.7 | 570.8 | 478.9 | 430.4 | 439.1 | 447.0 | 459.2 | 463.6 |
| 52.5° | 3996.8 | 3507.3 | 1798.9 | 655.2 | 574.3 | 481.1 | 406.3 | 425.1 | 430.8 | 441.3 | 443.1 |
| 55° | 4534.8 | 3707.2 | 1546.6 | 631.1 | 575.2 | 494.7 | 385.8 | 413.8 | 424.3 | 428.2 | 427.8 |
| 57.5° | 4847.0 | 3638.6 | 1250.5 | 590.5 | 571.7 | 503.9 | 372.6 | 399.8 | 419.9 | 422.5 | 418.6 |
| 60° | 4787.6 | 3397.6 | 920.7 | 559.4 | 545.8 | 500.4 | 368.7 | 378.3 | 410.3 | 414.2 | 409.0 |
| 62.5° | 4329.2 | 2993.4 | 639.0 | 535.4 | 489.0 | 485.1 | 367.4 | 344.7 | 389.3 | 398.9 | 391.5 |
| 65° | *3479.8* | *2356.6* | *451.4* | *461.0* | *428.6* | *451.8* | *360.4* | *309.7* | *363.9* | *377.0* | *365.6* |
| 67.5° | 2524.6 | 1594.7 | 325.8 | 373.5 | 388.4 | 398.0 | 344.7 | 284.3 | 335.0 | 352.5 | 337.7 |
| 70° | 1620.1 | 861.2 | 228.7 | 246.7 | 327.2 | 338.1 | 317.5 | 261.6 | 305.7 | 325.8 | 309.7 |
| 72.5° | 1151.6 | 508.7 | 164.5 | 172.8 | 262.9 | 281.7 | 279.5 | 236.2 | 271.6 | 296.1 | 276.9 |
| 75° | 794.7 | 280.4 | 111.1 | 123.3 | 190.7 | 228.7 | 215.6 | 202.9 | 230.1 | 255.0 | 236.2 |
| 77.5° | 498.2 | 125.5 | 66.5 | 85.7 | 125.1 | 179.8 | 147.8 | 157.0 | 179.3 | 202.5 | 182.8 |
| 80° | 277.3 | 48.5 | 37.2 | 56.9 | 68.2 | 130.8 | 81.8 | 101.0 | 132.1 | 148.7 | 133.0 |
| 82.5° | 60.4 | 6.1 | 16.6 | 24.5 | 26.7 | 76.1 | 43.3 | 58.6 | 83.1 | 81.8 | 70.9 |
| 85° | 0.0 | 0.0 | 3.1 | 3.5 | 1.7 | 32.8 | 15.7 | 19.2 | 27.1 | 25.4 | 19.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 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° | 879.1 | 879.1 | 879.1 | 879.1 | 879.1 | 879.1 | 879.1 | 879.1 | 879.1 | 879.1 | 879.1 |
| 2.5° | 787.3 | 765.9 | 750.1 | 742.2 | 735.7 | 741.8 | 745.3 | 745.3 | 760.2 | 768.9 | 772.4 |
| 5° | 713.4 | 674.9 | 645.6 | 625.9 | 614.1 | 618.0 | 622.4 | 627.2 | 646.0 | 658.7 | 667.0 |
| 7.5° | 662.2 | 603.1 | 558.5 | 531.0 | 516.5 | 518.7 | 521.8 | 525.7 | 544.1 | 556.8 | 567.7 |
| 10° | 652.6 | 567.7 | 504.7 | 468.4 | 450.9 | 447.9 | 446.1 | 444.8 | 455.7 | 465.4 | 474.1 |
| 12.5° | 691.9 | 569.5 | 481.6 | 437.4 | 415.9 | 406.8 | 396.3 | 388.0 | 389.7 | 395.8 | 406.8 |
| 15° | 762.4 | 591.8 | 474.1 | 421.2 | 394.5 | 379.2 | 367.0 | 356.9 | 354.7 | 356.9 | 358.7 |
| 17.5° | 842.8 | 622.0 | 473.2 | 407.2 | 374.0 | 358.2 | 348.2 | 339.0 | 335.9 | 336.3 | 338.5 |
| 20° | 896.2 | 646.0 | 470.6 | 391.5 | 354.3 | 340.3 | 331.5 | 322.3 | 319.3 | 320.2 | 320.6 |
| 22.5° | 901.4 | 658.7 | 466.7 | 374.0 | 334.6 | 322.8 | 314.0 | 305.7 | 305.3 | 305.3 | 307.9 |
| 25° | 873.0 | 658.7 | 458.4 | 358.2 | 315.8 | 305.3 | 297.4 | 287.4 | 289.1 | 290.0 | 293.5 |
| 27.5° | 828.8 | 642.9 | 442.6 | 345.5 | 299.6 | 288.7 | 280.8 | 271.6 | 273.8 | 275.1 | 279.0 |
| 30° | 785.1 | 622.8 | 423.8 | 331.1 | 284.3 | 271.6 | 265.9 | 258.1 | 258.9 | 260.7 | 265.1 |
| 32.5° | 744.4 | 601.4 | 401.5 | 319.3 | 269.0 | 256.3 | 251.9 | 243.2 | 244.5 | 246.2 | 251.1 |
| 35° | 704.2 | 577.8 | 375.3 | 305.3 | 255.0 | 242.3 | 238.8 | 228.7 | 229.6 | 232.2 | 237.5 |
| 37.5° | 660.9 | 552.8 | 353.8 | 291.3 | 241.4 | 228.3 | 224.8 | 214.3 | 215.2 | 218.3 | 224.4 |
| 40° | 615.4 | 528.4 | 332.8 | 276.4 | 227.0 | 213.9 | 210.8 | 199.4 | 200.3 | 203.8 | 210.4 |
| 42.5° | 569.5 | 501.7 | 316.7 | 257.2 | 212.1 | 198.1 | 195.1 | 184.6 | 185.9 | 189.8 | 196.4 |
| 45° | 527.0 | 469.7 | 306.2 | 235.7 | 198.1 | 182.4 | 179.3 | 169.7 | 172.3 | 176.7 | 183.3 |
| 47.5° | 490.7 | 436.9 | 301.8 | 217.8 | 183.3 | 166.2 | 163.6 | 155.7 | 160.1 | 164.9 | 170.1 |
| 50° | 459.7 | 405.5 | 296.1 | 199.4 | 169.3 | 152.2 | 149.6 | 144.3 | 150.0 | 154.8 | 159.6 |
| 52.5° | 437.4 | 369.6 | 283.9 | 182.8 | 157.0 | 140.4 | 139.5 | 136.9 | 142.1 | 146.5 | 150.9 |
| 55° | 418.1 | 332.4 | 264.2 | 168.4 | 146.1 | 130.3 | 131.2 | 129.9 | 134.3 | 137.8 | 141.7 |
| 57.5° | 400.6 | 300.0 | 239.2 | 157.0 | 134.3 | 121.6 | 124.2 | 122.5 | 124.7 | 126.8 | 131.7 |
| 60° | 379.6 | 267.2 | 209.5 | 144.3 | 120.3 | 112.8 | 115.9 | 111.1 | 110.7 | 111.5 | 112.8 |
| 62.5° | 348.6 | 223.1 | 178.5 | 128.6 | 108.0 | 103.2 | 104.5 | 95.3 | 88.4 | 88.4 | 89.7 |
| 65° | *305.3* | *179.3* | *149.6* | *111.1* | *94.0* | *90.1* | *89.2* | *76.1* | *66.5* | *65.6* | *69.5* |
| 67.5° | 255.0 | 147.4 | 124.2 | 93.6 | 78.3 | 75.7 | 76.5 | 66.9 | 57.3 | 56.4 | 60.8 |
| 70° | 207.8 | 122.0 | 100.2 | 74.8 | 60.4 | 63.0 | 66.9 | 57.3 | 48.1 | 46.8 | 50.7 |
| 72.5° | 168.8 | 97.1 | 78.3 | 57.3 | 44.6 | 52.0 | 56.9 | 46.8 | 38.1 | 37.2 | 40.7 |
| 75° | 130.3 | 71.3 | 56.0 | 38.9 | 32.4 | 40.2 | 44.6 | 34.1 | 27.1 | 25.8 | 28.9 |
| 77.5° | 87.0 | 44.2 | 31.5 | 24.5 | 19.2 | 27.6 | 29.7 | 17.9 | 15.7 | 15.3 | 17.5 |
| 80° | 52.9 | 20.6 | 13.6 | 11.8 | 6.6 | 10.1 | 11.8 | 7.4 | 8.3 | 8.7 | 10.5 |
| 82.5° | 26.7 | 5.7 | 2.2 | 0.4 | 0.0 | 0.0 | 3.5 | 1.7 | 3.5 | 4.4 | 6.6 |
| 85° | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 2.2 | 3.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 |
| 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° | 879.1 | 879.1 | 879.1 | 879.1 | 879.1 | 879.1 | 879.1 | 879.1 | 879.1 | 879.1 | 879.1 |
| 2.5° | 796.9 | 815.3 | 832.8 | 860.8 | 889.6 | 918.1 | 946.9 | 974.9 | 985.0 | 992.4 | 1009.0 |
| 5° | 705.1 | 739.6 | 779.8 | 835.4 | 894.9 | 956.1 | 1018.2 | 1075.1 | 1100.9 | 1118.4 | 1157.7 |
| 7.5° | 610.1 | 655.2 | 712.9 | 796.5 | 889.6 | 987.2 | 1084.7 | 1174.4 | 1215.9 | 1249.6 | 1309.5 |
| 10° | 516.1 | 565.1 | 638.1 | 733.5 | 859.5 | 999.4 | 1134.1 | 1257.5 | 1311.3 | 1353.7 | 1435.0 |
| 12.5° | 433.4 | 479.4 | 555.9 | 661.3 | 812.2 | 989.8 | 1162.6 | 1310.8 | 1374.2 | 1421.9 | 1511.1 |
| 15° | 375.3 | 407.6 | 475.4 | 589.2 | 756.2 | 958.7 | 1164.3 | 1336.2 | 1405.7 | 1455.6 | 1533.0 |
| 17.5° | 342.9 | 353.8 | 398.0 | 515.7 | 694.1 | 918.1 | 1148.1 | 1344.9 | 1419.3 | 1465.7 | 1519.5 |
| 20° | 325.4 | 327.2 | 339.4 | 420.3 | 614.5 | 880.0 | 1132.8 | 1353.7 | 1432.0 | 1470.9 | 1487.1 |
| 22.5° | 311.4 | 311.4 | 314.5 | 343.8 | 511.7 | 834.5 | 1128.0 | 1369.0 | 1449.5 | 1473.5 | 1440.3 |
| 25° | 298.7 | 298.7 | 299.6 | 307.5 | 405.5 | 765.0 | 1124.9 | 1392.6 | 1473.5 | 1480.1 | 1388.7 |
| 27.5° | 285.6 | 286.0 | 286.0 | 290.4 | 326.7 | 670.5 | 1111.8 | 1423.2 | 1502.4 | 1488.8 | 1339.3 |
| 30° | 272.5 | 273.4 | 273.4 | 276.4 | 289.1 | 559.8 | 1086.0 | 1460.0 | 1540.0 | 1500.2 | 1290.3 |
| 32.5° | 259.4 | 260.2 | 260.2 | 262.9 | 272.1 | 447.0 | 1053.6 | 1493.7 | 1578.1 | 1505.0 | 1244.8 |
| 35° | 245.8 | 247.1 | 246.2 | 249.7 | 259.4 | 355.6 | 1012.5 | 1527.3 | 1619.2 | 1520.3 | 1222.5 |
| 37.5° | 232.2 | 233.1 | 232.7 | 236.2 | 247.1 | 307.0 | 964.9 | 1552.7 | 1675.2 | 1554.4 | 1249.2 |
| 40° | 218.7 | 218.3 | 218.3 | 222.2 | 234.0 | 293.0 | 904.9 | 1592.9 | 1755.6 | 1614.4 | 1365.5 |
| 42.5° | 204.7 | 204.7 | 203.8 | 208.2 | 222.6 | 282.5 | 847.6 | 1665.1 | 1872.9 | 1709.7 | 1571.9 |
| 45° | 192.0 | 191.6 | 189.8 | 193.8 | 211.7 | 264.2 | 827.5 | 1799.8 | 2046.1 | 1864.1 | 1821.7 |
| 47.5° | 179.8 | 179.3 | 175.0 | 178.5 | 198.6 | 247.6 | 902.8 | 2020.3 | 2286.2 | 2091.1 | 2055.7 |
| 50° | 168.8 | 169.3 | 161.0 | 164.0 | 185.4 | 234.9 | 1065.9 | 2306.3 | 2605.0 | 2396.8 | 2277.4 |
| 52.5° | 158.8 | 158.8 | 147.8 | 149.6 | 169.3 | 223.5 | 1221.2 | 2616.4 | 3025.8 | 2823.3 | 2535.9 |
| 55° | 148.7 | 147.8 | 135.6 | 136.5 | 153.1 | 207.3 | 1244.3 | 2919.1 | 3599.6 | 3464.9 | 2889.3 |
| 57.5° | 137.3 | 135.6 | 124.2 | 124.2 | 138.2 | 195.5 | 1078.6 | 3151.8 | 4311.7 | 4407.9 | 3398.9 |
| 60° | 123.3 | 122.0 | 114.6 | 112.4 | 126.4 | 206.0 | 761.0 | 3178.9 | 4770.9 | 5661.9 | 4374.7 |
| 62.5° | 105.4 | 107.2 | 103.2 | 100.2 | 115.0 | 213.9 | 450.9 | 2960.6 | 4659.8 | 6060.8 | 5543.4 |
| 65° | *83.1* | *90.1* | *89.2* | *87.0* | *126.4* | *180.2* | *266.4* | *2541.6* | *4319.1* | *5738.9* | *5305.0* |
| 67.5° | 70.9 | 75.7 | 74.4 | 74.4 | 132.5 | 136.9 | 167.5 | 1985.7 | 3850.3 | 5357.0 | 4738.6 |
| 70° | 60.4 | 65.2 | 60.4 | 60.4 | 100.2 | 83.1 | 115.9 | 1386.5 | 3344.2 | 4934.5 | 4366.8 |
| 72.5° | 49.9 | 54.7 | 49.4 | 45.9 | 80.0 | 62.1 | 84.9 | 866.4 | 2864.0 | 4494.5 | 4112.2 |
| 75° | 38.1 | 43.7 | 39.8 | 35.4 | 52.9 | 46.4 | 64.3 | 503.4 | 2372.8 | 3845.4 | 3749.7 |
| 77.5° | 24.1 | 31.5 | 29.7 | 24.9 | 38.9 | 33.7 | 46.4 | 299.6 | 1830.9 | 3004.8 | 3225.2 |
| 80° | 14.9 | 16.2 | 16.6 | 15.7 | 22.3 | 22.7 | 31.5 | 170.6 | 1253.1 | 2094.2 | 2519.7 |
| 82.5° | 9.6 | 9.6 | 7.4 | 8.3 | 10.9 | 13.1 | 17.9 | 64.3 | 736.5 | 1275.0 | 1753.9 |
| 85° | 7.0 | 6.1 | 3.9 | 3.9 | 5.2 | 6.6 | 7.0 | 19.7 | 298.7 | 503.4 | 685.8 |
| 87.5° | 3.5 | 3.1 | 1.3 | 1.7 | 2.6 | 2.2 | 1.7 | 0.9 | 75.2 | 161.0 | 112.8 |
| 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: P1202588
CATALOG NUMBER: GWC-SB2A-727-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

| | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 360° |
|---|---|---|---|---|---|---|---|---|
| 0° | 879.1 | 879.1 | *879.1* | 879.1 | 879.1 | 879.1 | 879.1 | 879.1 |
| 2.5° | 1017.8 | 1031.3 | *1032.2* | 1032.2 | 1020.4 | 1020.0 | 995.9 | 993.3 |
| 5° | 1198.4 | 1207.2 | *1209.4* | 1205.0 | 1181.4 | 1163.9 | 1117.1 | 1107.0 |
| 7.5° | 1363.8 | 1381.2 | *1381.2* | 1370.7 | 1332.3 | 1296.4 | 1228.6 | 1203.2 |
| 10° | 1495.8 | 1516.0 | *1511.6* | 1490.2 | 1441.6 | 1392.2 | 1310.0 | 1276.7 |
| 12.5° | 1560.1 | 1580.7 | *1569.3* | 1544.8 | 1497.6 | 1445.5 | 1358.9 | 1321.3 |
| 15° | 1558.8 | 1553.1 | *1541.3* | 1538.3 | 1515.5 | 1476.2 | 1395.2 | 1354.1 |
| 17.5° | 1503.3 | 1455.2 | *1446.0* | 1476.6 | 1505.5 | 1495.8 | 1426.7 | 1388.2 |
| 20° | 1415.4 | 1331.4 | *1323.1* | 1381.7 | 1463.9 | 1505.9 | 1456.0 | 1420.6 |
| 22.5° | 1322.6 | 1232.1 | *1212.9* | 1277.6 | 1401.4 | 1509.0 | 1493.2 | 1457.8 |
| 25° | 1234.7 | 1143.7 | *1124.5* | 1184.9 | 1331.8 | 1503.7 | 1533.5 | 1503.3 |
| 27.5° | 1161.2 | 1073.3 | *1055.4* | 1115.8 | 1264.9 | 1488.8 | 1573.7 | 1552.3 |
| 30° | 1104.4 | 1023.0 | *1009.9* | 1068.1 | 1207.2 | 1470.5 | 1624.9 | 1613.1 |
| 32.5° | 1071.1 | 1011.7 | *1016.5* | 1064.1 | 1176.1 | 1450.4 | 1673.9 | 1679.5 |
| 35° | 1103.9 | 1106.6 | *1148.6* | 1168.2 | 1205.0 | 1447.3 | 1740.3 | 1762.6 |
| 37.5° | 1267.1 | 1358.1 | *1445.1* | 1428.9 | 1346.3 | 1482.7 | 1839.6 | 1881.2 |
| 40° | 1544.8 | 1731.6 | *1872.9* | 1811.2 | 1603.0 | 1591.2 | 1982.6 | 2044.8 |
| 42.5° | 1884.2 | 2200.9 | *2433.6* | 2268.3 | 1934.1 | 1781.0 | 2186.9 | 2266.1 |
| 45° | 2242.4 | 2779.5 | *3146.1* | 2802.3 | 2287.1 | 2046.9 | 2496.1 | 2558.2 |
| 47.5° | 2619.9 | 3482.9 | *3957.0* | 3394.5 | 2614.2 | 2349.6 | 2917.8 | 2932.2 |
| 50° | 3032.8 | 4254.0 | *4783.6* | 3986.3 | 2930.0 | 2696.4 | 3433.0 | 3416.4 |
| 52.5° | 3426.0 | 5046.9 | *5592.8* | 4580.7 | 3207.3 | 3126.8 | 4030.9 | 3996.8 |
| 55° | 3801.3 | 5839.5 | *6406.7* | 5151.9 | 3468.9 | 3695.4 | 4741.2 | 4534.8 |
| 57.5° | 4236.5 | 6551.9 | *7245.6* | 5725.7 | 3834.5 | 4433.7 | 5535.5 | 4847.0 |
| 60° | 4879.8 | 7361.5 | *8194.3* | 6512.1 | 4529.9 | 5209.6 | 5820.2 | 4787.6 |
| 62.5° | 5701.2 | 8106.0 | *8884.1* | 7282.8 | 5228.4 | 5355.7 | 5400.8 | 4329.2 |
| 65° | *5860.9* | *8294.5* | *8923.0* | *7488.8* | *5138.3* | *4543.1* | *4409.2* | *3479.8* |
| 67.5° | 5437.5 | 7953.8 | *8378.9* | 7105.2 | 4545.3 | 3510.8 | 3308.8 | 2524.6 |
| 70° | 4962.5 | 7304.2 | *7430.6* | 6453.1 | 3997.7 | 2582.3 | 2234.6 | 1620.1 |
| 72.5° | 4475.7 | 6437.8 | *6176.2* | 5604.1 | 3513.5 | 1880.3 | 1611.7 | 1151.6 |
| 75° | 3897.5 | 5298.4 | *4865.0* | 4656.3 | 2909.0 | 1475.7 | 1166.1 | 794.7 |
| 77.5° | 3121.1 | 3729.5 | *3613.6* | 3609.3 | 2186.0 | 1078.1 | 778.1 | 498.2 |
| 80° | 2201.8 | 2420.5 | *2361.4* | 2718.3 | 1466.5 | 782.0 | 468.4 | 277.3 |
| 82.5° | 1065.9 | 1338.4 | *1373.8* | 1618.7 | 713.4 | 460.1 | 108.0 | 60.4 |
| 85° | 417.3 | 645.6 | *544.5* | 614.5 | 200.3 | 128.2 | 2.6 | 0.0 |
| 87.5° | 46.8 | 74.8 | *68.7* | 54.2 | 24.5 | 5.2 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |


HS
SS

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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: SP1-1908-441-1-R4

Test Date: 08/20/2019

Luminaire Tested: SA1C-727-U-5WQ

Data in this report applies to 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

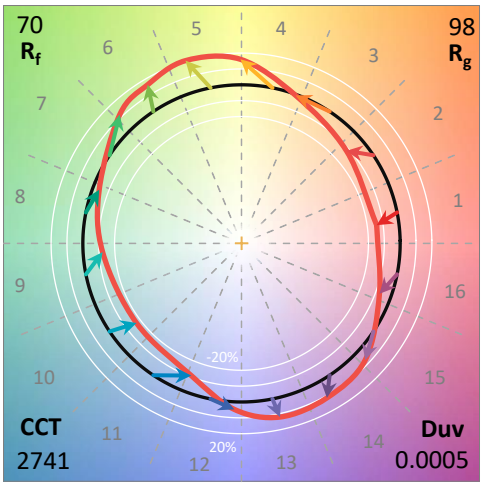
| | |
|---|---|
| Test Method: | LM-79-2008 |
| Report Number: | SP1-1908-441-1-R4 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 - 76IN SPHERE |
| Measurement Geometry: | 4π |
| Issue Date: | 10/28/2024 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | **SA1C-727-U-5WQ** |
| Description: | McGRAW EDISON ROADWAY AND AREA LUMINAIRE |

***THIS IS A REVISION OF SP1-1908-441-1-R3. TO UPDATE THE CATALOG NUMBER.***TESTED IN SITU. (1) 70 CRI, 2700K, 1050MA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS.

## Spectral Parameters

| | | | | | |
|---|---|---|---|---|---|
| CCT (K): | 2741 | CRI (Ra): | 71.5 | | |
| CIE u': | 0.2605 | R1: | 69.2 | R9: | -16.1 |
| CIE v': | 0.5272 | R2: | 79.4 | R10: | 51.4 |
| Duv: | 0.0005 | R3: | 87.8 | R11: | 63.1 |
| CIE x: | 0.4573 | R4: | 69.4 | R12: | 42.0 |
| CIE y: | 0.4113 | R5: | 66.4 | R13: | 70.2 |
| CIE z: | 0.1313 | R6: | 69.8 | R14: | 92.4 |
| Peak Wavelength (nm): | 602 | R7: | 79.8 | | |
| Dominant Wavelength (nm): | 583 | R8: | 50.1 | | |
| Purity: | 61.2 | | | | |

| | |
|---|---|
| Rf: | 69.9 |
| Rg: | 98.3 |




## Test Conditions

| | |
|---|---|
| Stabilization Time: | 56M |
| Operation Time: | 12H |
| Room Temperature (°C) / RH%: | 25.3./42% |
| Sphere Temperature (°C): | 25.7 |

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

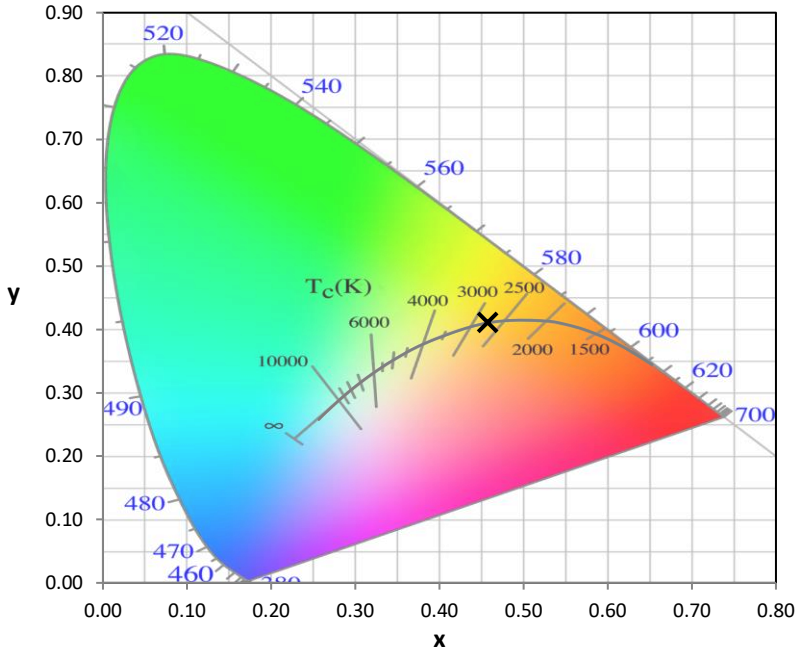
REPORT NUMBER: SP1-1908-441-1-R4

| 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 |

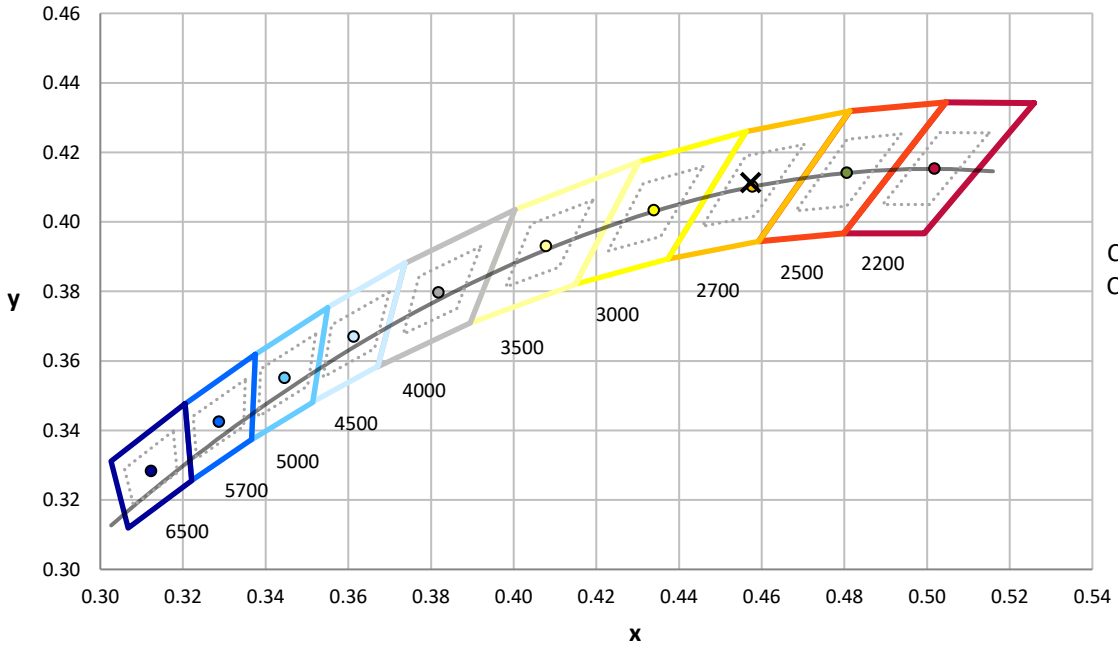
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

REPORT NUMBER: SP1-1908-441-1-R4

## CIE 1931 Chromaticity Diagram




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



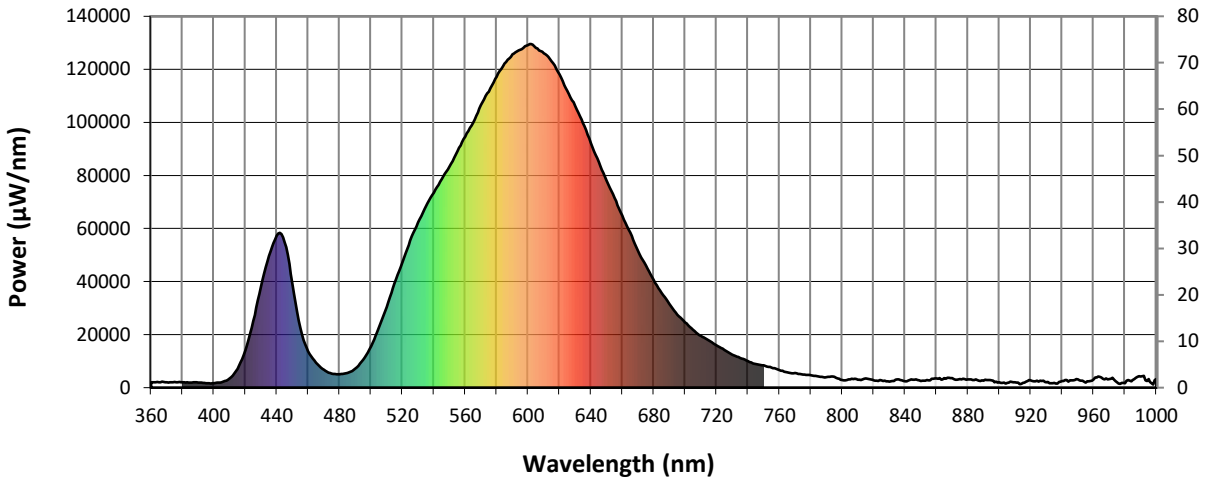

CCT = 2741K
CIE x = 0.4573
CIE y = 0.4113
Duv = 0.0005

Point lies inside the ANSI 2700K 4-step quadrangle

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

REPORT NUMBER: SP1-1908-441-1-R4

## Photopic Flux vs. Wavelength



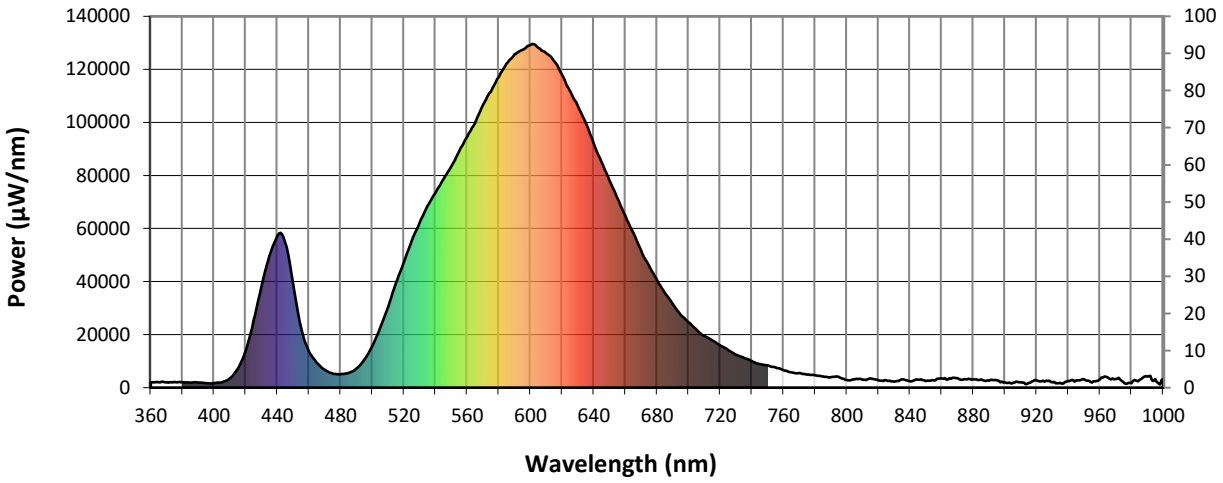

######

| 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 | 2044 | NR | 490 | 7179 | NR | 620 | 118034 | NR | 750 | 8362 | NR | 880 | 3128 | NR |
| 365 | 2016 | NR | 495 | 10476 | NR | 625 | 111884 | NR | 755 | 7635 | NR | 885 | 3110 | NR |
| 370 | 2020 | NR | 500 | 15549 | NR | 630 | 106119 | NR | 760 | 6582 | NR | 890 | 2632 | NR |
| 375 | 2137 | NR | 505 | 22477 | NR | 635 | 99706 | NR | 765 | 5777 | NR | 895 | 2709 | NR |
| 380 | 2046 | NR | 510 | 30417 | NR | 640 | 92142 | NR | 770 | 5474 | NR | 900 | 2016 | NR |
| 385 | 1925 | NR | 515 | 39274 | NR | 645 | 84987 | NR | 775 | 4977 | NR | 905 | 1748 | NR |
| 390 | 1893 | NR | 520 | 47282 | NR | 650 | 78016 | NR | 780 | 4723 | NR | 910 | 2046 | NR |
| 395 | 1695 | NR | 525 | 55413 | NR | 655 | 71541 | NR | 785 | 4219 | NR | 915 | 1844 | NR |
| 400 | 1633 | NR | 530 | 62377 | NR | 660 | 64863 | NR | 790 | 3969 | NR | 920 | 2734 | NR |
| 405 | 2065 | NR | 535 | 68520 | NR | 665 | 58485 | NR | 795 | 4122 | NR | 925 | 2307 | NR |
| 410 | 3449 | NR | 540 | 73435 | NR | 670 | 51641 | NR | 800 | 2864 | NR | 930 | 2039 | NR |
| 415 | 7117 | NR | 545 | 78677 | NR | 675 | 46030 | NR | 805 | 3151 | NR | 935 | 1784 | NR |
| 420 | 13992 | NR | 550 | 83331 | NR | 680 | 40590 | NR | 810 | 3022 | NR | 940 | 2464 | NR |
| 425 | 25176 | NR | 555 | 89120 | NR | 685 | 35691 | NR | 815 | 3471 | NR | 945 | 2794 | NR |
| 430 | 38151 | NR | 560 | 94613 | NR | 690 | 31631 | NR | 820 | 2749 | NR | 950 | 3090 | NR |
| 435 | 49673 | NR | 565 | 99818 | NR | 695 | 27437 | NR | 825 | 2729 | NR | 955 | 1866 | NR |
| 440 | 57273 | NR | 570 | 106526 | NR | 700 | 24589 | NR | 830 | 2282 | NR | 960 | 3110 | NR |
| 445 | 54802 | NR | 575 | 111610 | NR | 705 | 21832 | NR | 835 | 3140 | NR | 965 | 3880 | NR |
| 450 | 39184 | NR | 580 | 117163 | NR | 710 | 19500 | NR | 840 | 2365 | NR | 970 | 3243 | NR |
| 455 | 22506 | NR | 585 | 122201 | NR | 715 | 17870 | NR | 845 | 3024 | NR | 975 | 2014 | NR |
| 460 | 13692 | NR | 590 | 125662 | NR | 720 | 15924 | NR | 850 | 2510 | NR | 980 | 1688 | NR |
| 465 | 9446 | NR | 595 | 127415 | NR | 725 | 14268 | NR | 855 | 2739 | NR | 985 | 2827 | NR |
| 470 | 6698 | NR | 600 | 129155 | NR | 730 | 12438 | NR | 860 | 3515 | NR | 990 | 4172 | NR |
| 475 | 5328 | NR | 605 | 128057 | NR | 735 | 11255 | NR | 865 | 3600 | NR | 995 | 3177 | NR |
| 480 | 5081 | NR | 610 | 126031 | NR | 740 | 9951 | NR | 870 | 3609 | NR | 1000 | 3241 | NR |
| 485 | 5579 | NR | 615 | 123059 | NR | 745 | 8870 | NR | 875 | 3208 | NR | | | |

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

REPORT NUMBER: SP1-1908-441-1-R4

## Scotopic Flux vs. Wavelength



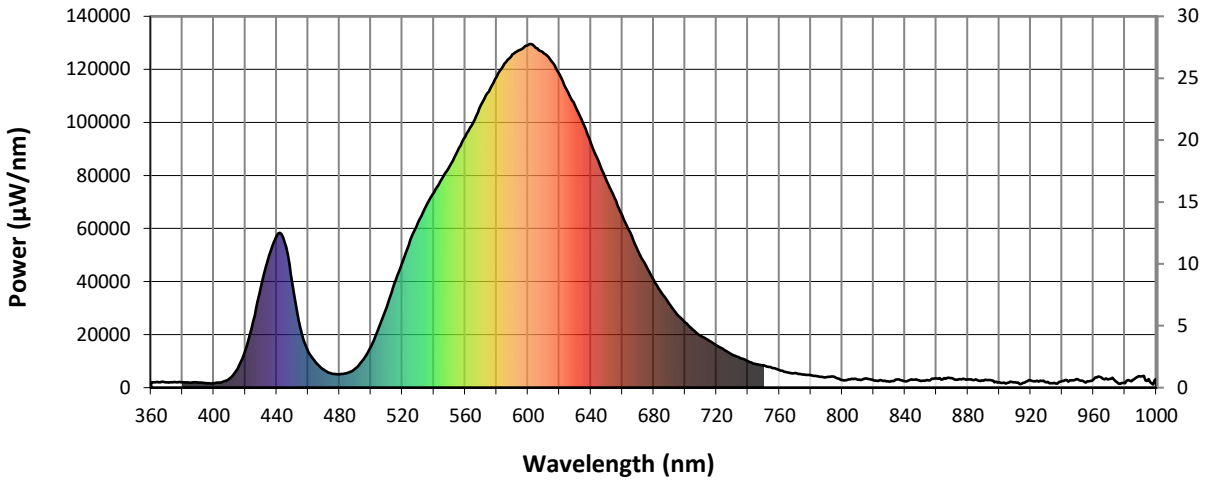

**Scotopic Lumens: 6474.3** **S/P: 1.04**

| 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 | 2044 | NR | 490 | 7179 | NR | 620 | 118034 | NR | 750 | 8362 | NR | 880 | 3128 | NR |
| 365 | 2016 | NR | 495 | 10476 | NR | 625 | 111884 | NR | 755 | 7635 | NR | 885 | 3110 | NR |
| 370 | 2020 | NR | 500 | 15549 | NR | 630 | 106119 | NR | 760 | 6582 | NR | 890 | 2632 | NR |
| 375 | 2137 | NR | 505 | 22477 | NR | 635 | 99706 | NR | 765 | 5777 | NR | 895 | 2709 | NR |
| 380 | 2046 | NR | 510 | 30417 | NR | 640 | 92142 | NR | 770 | 5474 | NR | 900 | 2016 | NR |
| 385 | 1925 | NR | 515 | 39274 | NR | 645 | 84987 | NR | 775 | 4977 | NR | 905 | 1748 | NR |
| 390 | 1893 | NR | 520 | 47282 | NR | 650 | 78016 | NR | 780 | 4723 | NR | 910 | 2046 | NR |
| 395 | 1695 | NR | 525 | 55413 | NR | 655 | 71541 | NR | 785 | 4219 | NR | 915 | 1844 | NR |
| 400 | 1633 | NR | 530 | 62377 | NR | 660 | 64863 | NR | 790 | 3969 | NR | 920 | 2734 | NR |
| 405 | 2065 | NR | 535 | 68520 | NR | 665 | 58485 | NR | 795 | 4122 | NR | 925 | 2307 | NR |
| 410 | 3449 | NR | 540 | 73435 | NR | 670 | 51641 | NR | 800 | 2864 | NR | 930 | 2039 | NR |
| 415 | 7117 | NR | 545 | 78677 | NR | 675 | 46030 | NR | 805 | 3151 | NR | 935 | 1784 | NR |
| 420 | 13992 | NR | 550 | 83331 | NR | 680 | 40590 | NR | 810 | 3022 | NR | 940 | 2464 | NR |
| 425 | 25176 | NR | 555 | 89120 | NR | 685 | 35691 | NR | 815 | 3471 | NR | 945 | 2794 | NR |
| 430 | 38151 | NR | 560 | 94613 | NR | 690 | 31631 | NR | 820 | 2749 | NR | 950 | 3090 | NR |
| 435 | 49673 | NR | 565 | 99818 | NR | 695 | 27437 | NR | 825 | 2729 | NR | 955 | 1866 | NR |
| 440 | 57273 | NR | 570 | 106526 | NR | 700 | 24589 | NR | 830 | 2282 | NR | 960 | 3110 | NR |
| 445 | 54802 | NR | 575 | 111610 | NR | 705 | 21832 | NR | 835 | 3140 | NR | 965 | 3880 | NR |
| 450 | 39184 | NR | 580 | 117163 | NR | 710 | 19500 | NR | 840 | 2365 | NR | 970 | 3243 | NR |
| 455 | 22506 | NR | 585 | 122201 | NR | 715 | 17870 | NR | 845 | 3024 | NR | 975 | 2014 | NR |
| 460 | 13692 | NR | 590 | 125662 | NR | 720 | 15924 | NR | 850 | 2510 | NR | 980 | 1688 | NR |
| 465 | 9446 | NR | 595 | 127415 | NR | 725 | 14268 | NR | 855 | 2739 | NR | 985 | 2827 | NR |
| 470 | 6698 | NR | 600 | 129155 | NR | 730 | 12438 | NR | 860 | 3515 | NR | 990 | 4172 | NR |
| 475 | 5328 | NR | 605 | 128057 | NR | 735 | 11255 | NR | 865 | 3600 | NR | 995 | 3177 | NR |
| 480 | 5081 | NR | 610 | 126031 | NR | 740 | 9951 | NR | 870 | 3609 | NR | 1000 | 3241 | NR |
| 485 | 5579 | NR | 615 | 123059 | NR | 745 | 8870 | NR | 875 | 3208 | NR | | | |

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

REPORT NUMBER: SP1-1908-441-1-R4

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: 2145.7** **M/P: 0.35**

| 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 | 2044 | NR | 490 | 7179 | NR | 620 | 118034 | NR | 750 | 8362 | NR | 880 | 3128 | NR |
| 365 | 2016 | NR | 495 | 10476 | NR | 625 | 111884 | NR | 755 | 7635 | NR | 885 | 3110 | NR |
| 370 | 2020 | NR | 500 | 15549 | NR | 630 | 106119 | NR | 760 | 6582 | NR | 890 | 2632 | NR |
| 375 | 2137 | NR | 505 | 22477 | NR | 635 | 99706 | NR | 765 | 5777 | NR | 895 | 2709 | NR |
| 380 | 2046 | NR | 510 | 30417 | NR | 640 | 92142 | NR | 770 | 5474 | NR | 900 | 2016 | NR |
| 385 | 1925 | NR | 515 | 39274 | NR | 645 | 84987 | NR | 775 | 4977 | NR | 905 | 1748 | NR |
| 390 | 1893 | NR | 520 | 47282 | NR | 650 | 78016 | NR | 780 | 4723 | NR | 910 | 2046 | NR |
| 395 | 1695 | NR | 525 | 55413 | NR | 655 | 71541 | NR | 785 | 4219 | NR | 915 | 1844 | NR |
| 400 | 1633 | NR | 530 | 62377 | NR | 660 | 64863 | NR | 790 | 3969 | NR | 920 | 2734 | NR |
| 405 | 2065 | NR | 535 | 68520 | NR | 665 | 58485 | NR | 795 | 4122 | NR | 925 | 2307 | NR |
| 410 | 3449 | NR | 540 | 73435 | NR | 670 | 51641 | NR | 800 | 2864 | NR | 930 | 2039 | NR |
| 415 | 7117 | NR | 545 | 78677 | NR | 675 | 46030 | NR | 805 | 3151 | NR | 935 | 1784 | NR |
| 420 | 13992 | NR | 550 | 83331 | NR | 680 | 40590 | NR | 810 | 3022 | NR | 940 | 2464 | NR |
| 425 | 25176 | NR | 555 | 89120 | NR | 685 | 35691 | NR | 815 | 3471 | NR | 945 | 2794 | NR |
| 430 | 38151 | NR | 560 | 94613 | NR | 690 | 31631 | NR | 820 | 2749 | NR | 950 | 3090 | NR |
| 435 | 49673 | NR | 565 | 99818 | NR | 695 | 27437 | NR | 825 | 2729 | NR | 955 | 1866 | NR |
| 440 | 57273 | NR | 570 | 106526 | NR | 700 | 24589 | NR | 830 | 2282 | NR | 960 | 3110 | NR |
| 445 | 54802 | NR | 575 | 111610 | NR | 705 | 21832 | NR | 835 | 3140 | NR | 965 | 3880 | NR |
| 450 | 39184 | NR | 580 | 117163 | NR | 710 | 19500 | NR | 840 | 2365 | NR | 970 | 3243 | NR |
| 455 | 22506 | NR | 585 | 122201 | NR | 715 | 17870 | NR | 845 | 3024 | NR | 975 | 2014 | NR |
| 460 | 13692 | NR | 590 | 125662 | NR | 720 | 15924 | NR | 850 | 2510 | NR | 980 | 1688 | NR |
| 465 | 9446 | NR | 595 | 127415 | NR | 725 | 14268 | NR | 855 | 2739 | NR | 985 | 2827 | NR |
| 470 | 6698 | NR | 600 | 129155 | NR | 730 | 12438 | NR | 860 | 3515 | NR | 990 | 4172 | NR |
| 475 | 5328 | NR | 605 | 128057 | NR | 735 | 11255 | NR | 865 | 3600 | NR | 995 | 3177 | NR |
| 480 | 5081 | NR | 610 | 126031 | NR | 740 | 9951 | NR | 870 | 3609 | NR | 1000 | 3241 | NR |
| 485 | 5579 | NR | 615 | 123059 | NR | 745 | 8870 | NR | 875 | 3208 | NR | | | |

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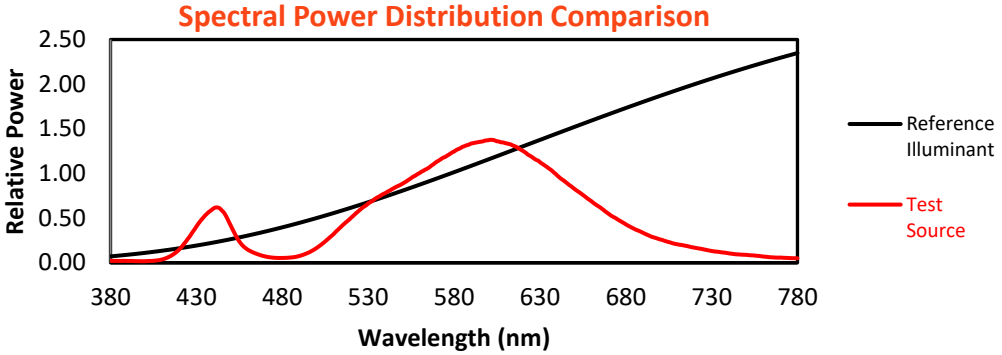
REPORT NUMBER: SP1-1908-441-1-R4

# TM-30-18

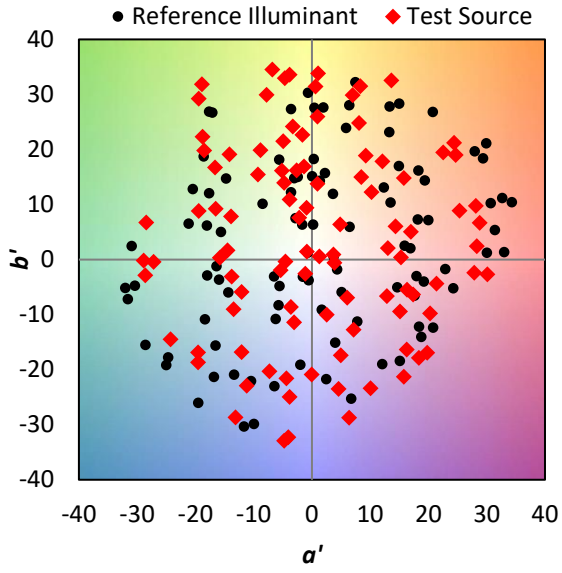
## Summary

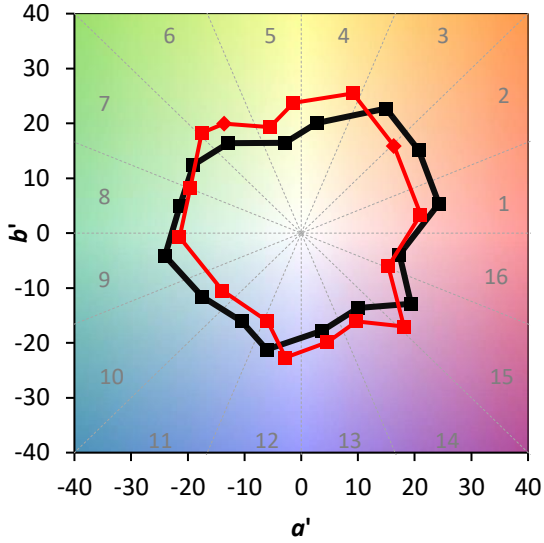
$R_f$ = 69.9
$R_g$ = 98.3
CIE $R_a$ = 71.5
$R_9$ = -16.1

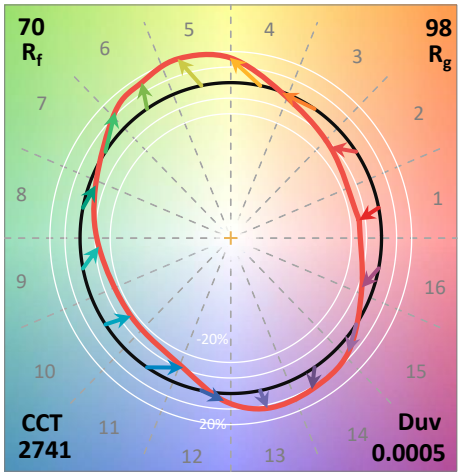
## Spectral Power Distribution Comparison

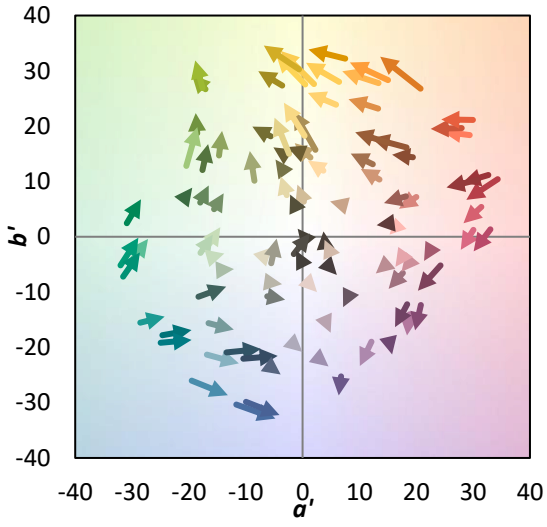



## Color Vector Graphics



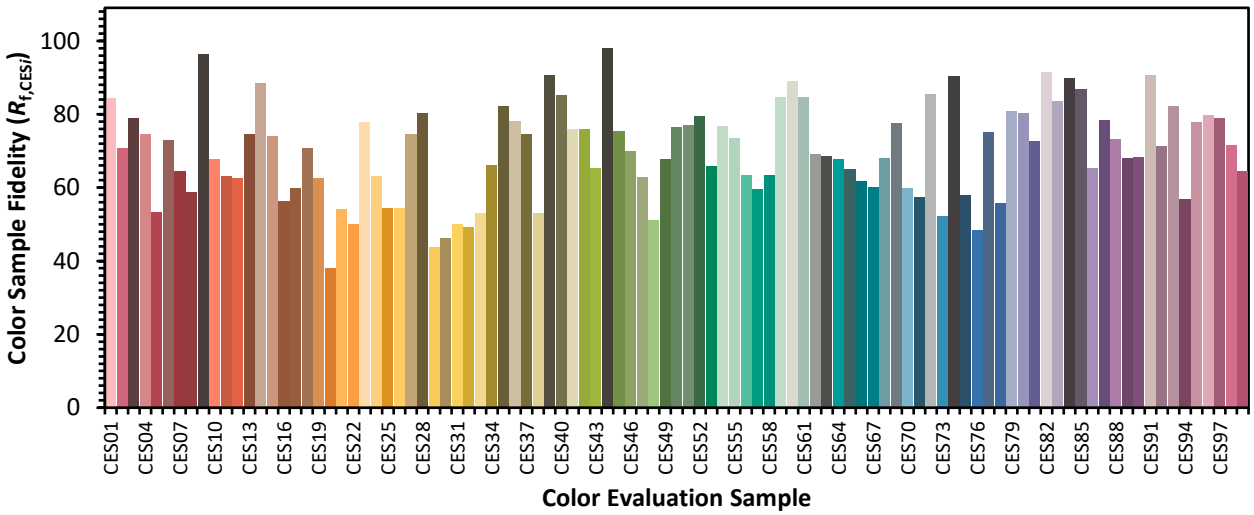
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

REPORT NUMBER: SP1-1908-441-1-R4

## TM-30-18

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

| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 54 | CES51 = 77 | CES76 = 48 |
| CES02 = 63 | CES27 = 74 | CES52 = 80 | CES77 = 75 |
| CES03 = 31 | CES28 = 80 | CES53 = 66 | CES78 = 56 |
| CES04 = 71 | CES29 = 44 | CES54 = 77 | CES79 = 81 |
| CES05 = 50 | CES30 = 46 | CES55 = 74 | CES80 = 80 |
| CES06 = 52 | CES31 = 50 | CES56 = 63 | CES81 = 73 |
| CES07 = 42 | CES32 = 49 | CES57 = 60 | CES82 = 91 |
| CES08 = 41 | CES33 = 53 | CES58 = 63 | CES83 = 84 |
| CES09 = 29 | CES34 = 66 | CES59 = 85 | CES84 = 90 |
| CES10 = 77 | CES35 = 82 | CES60 = 89 | CES85 = 87 |
| CES11 = 60 | CES36 = 78 | CES61 = 85 | CES86 = 65 |
| CES12 = 66 | CES37 = 75 | CES62 = 69 | CES87 = 78 |
| CES13 = 43 | CES38 = 53 | CES63 = 68 | CES88 = 73 |
| CES14 = 74 | CES39 = 91 | CES64 = 68 | CES89 = 68 |
| CES15 = 71 | CES40 = 85 | CES65 = 65 | CES90 = 68 |
| CES16 = 48 | CES41 = 76 | CES66 = 62 | CES91 = 91 |
| CES17 = 50 | CES42 = 76 | CES67 = 60 | CES92 = 71 |
| CES18 = 57 | CES43 = 65 | CES68 = 68 | CES93 = 82 |
| CES19 = 73 | CES44 = 98 | CES69 = 77 | CES94 = 57 |
| CES20 = 67 | CES45 = 75 | CES70 = 60 | CES95 = 78 |
| CES21 = 88 | CES46 = 70 | CES71 = 57 | CES96 = 80 |
| CES22 = 80 | CES47 = 63 | CES72 = 86 | CES97 = 79 |
| CES23 = 92 | CES48 = 51 | CES73 = 52 | CES98 = 71 |
| CES24 = 91 | CES49 = 68 | CES74 = 90 | CES99 = 64 |
| CES25 = 73 | CES50 = 77 | CES75 = 58 | |

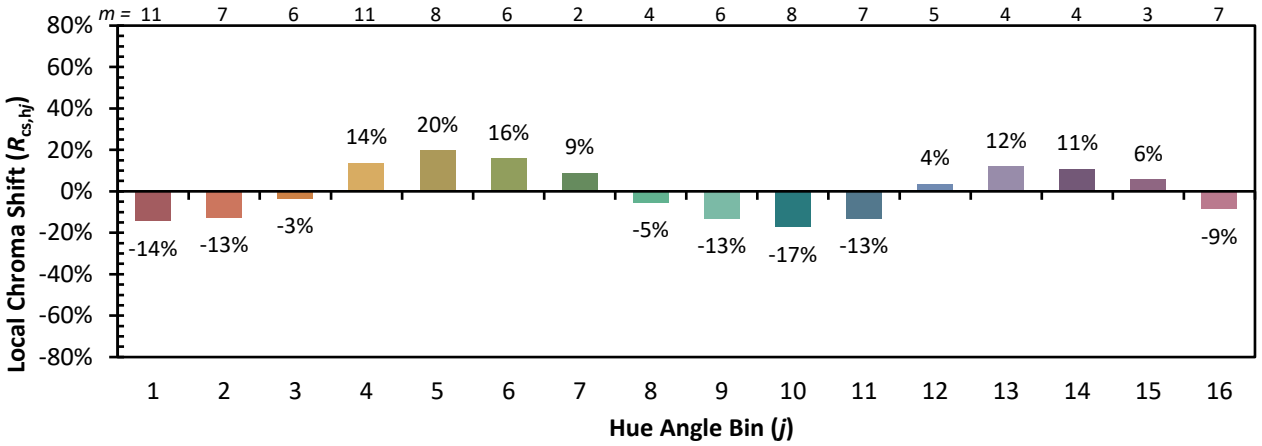


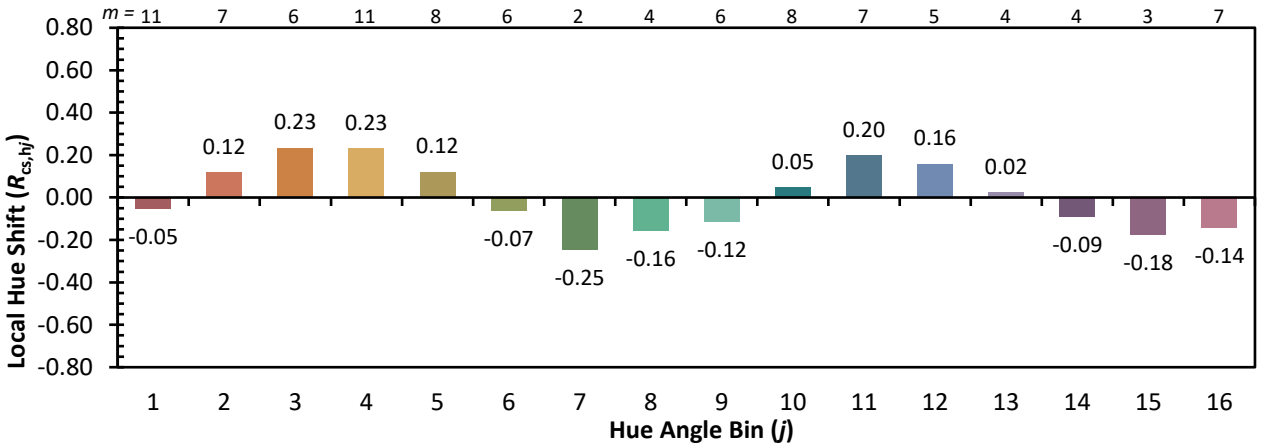
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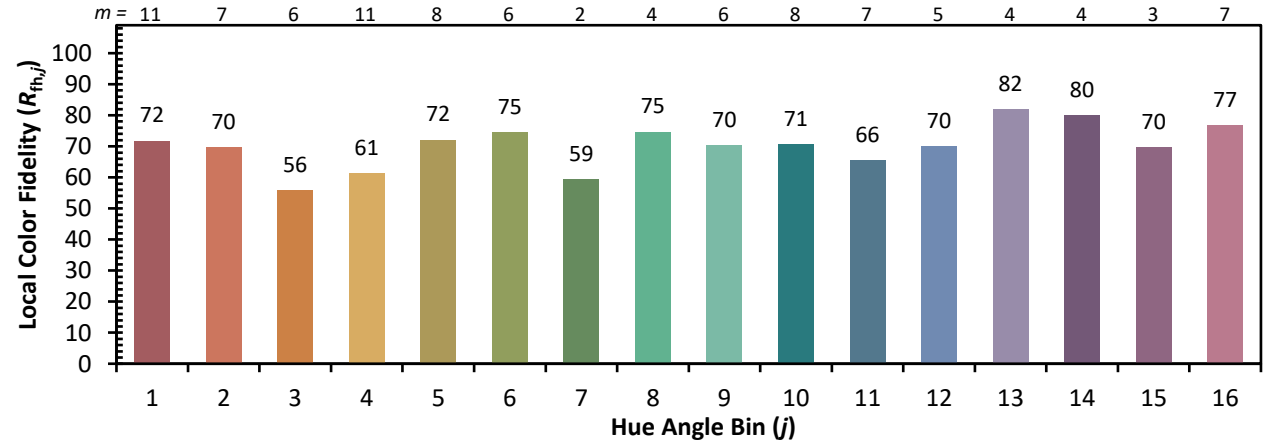
REPORT NUMBER: SP1-1908-441-1-R4

## TM-30-18

### Color Rendition by Hue-Angle Bin



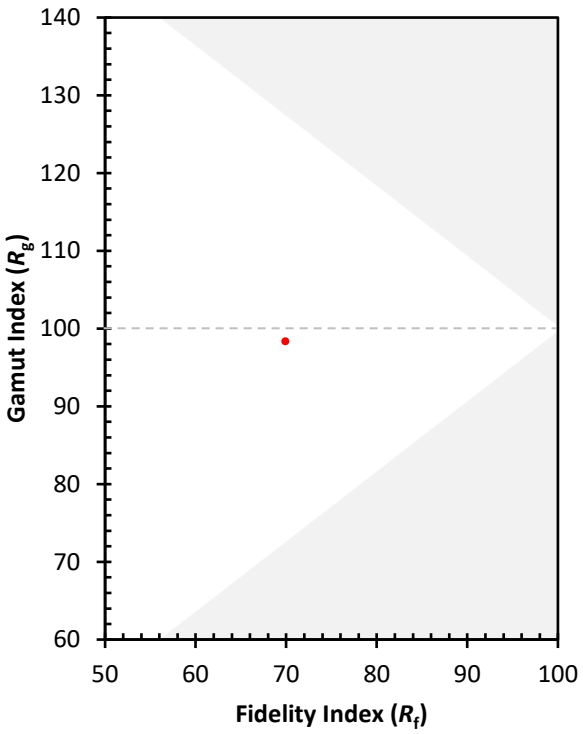



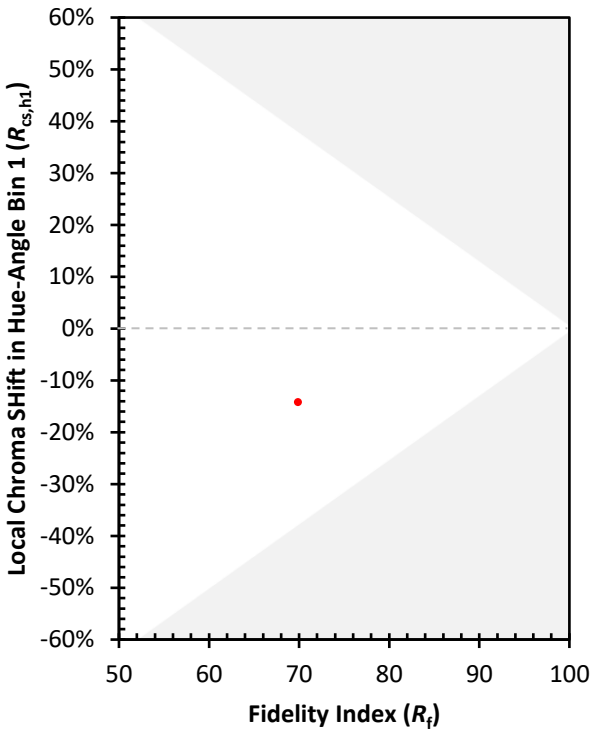
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Peachtree City, GA 30269

REPORT NUMBER: SP1-1908-441-1-R4

## TM-30-18

### Measure Comparisons




(END OF REPORT)