

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P437295

Luminaire Tested: **ISS-SA1C-727-U-SLR**

Issue Date: 12/9/2020

Test Information

Test Method: LM-79-08
Report Number: P437295
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-074-22)
Test Lab: INNOVATION CENTER
Issue Date: 12/9/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-SA1C-727-U-SLR
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3373 lumens
Efficiency: N/A
Efficacy: 98.6 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

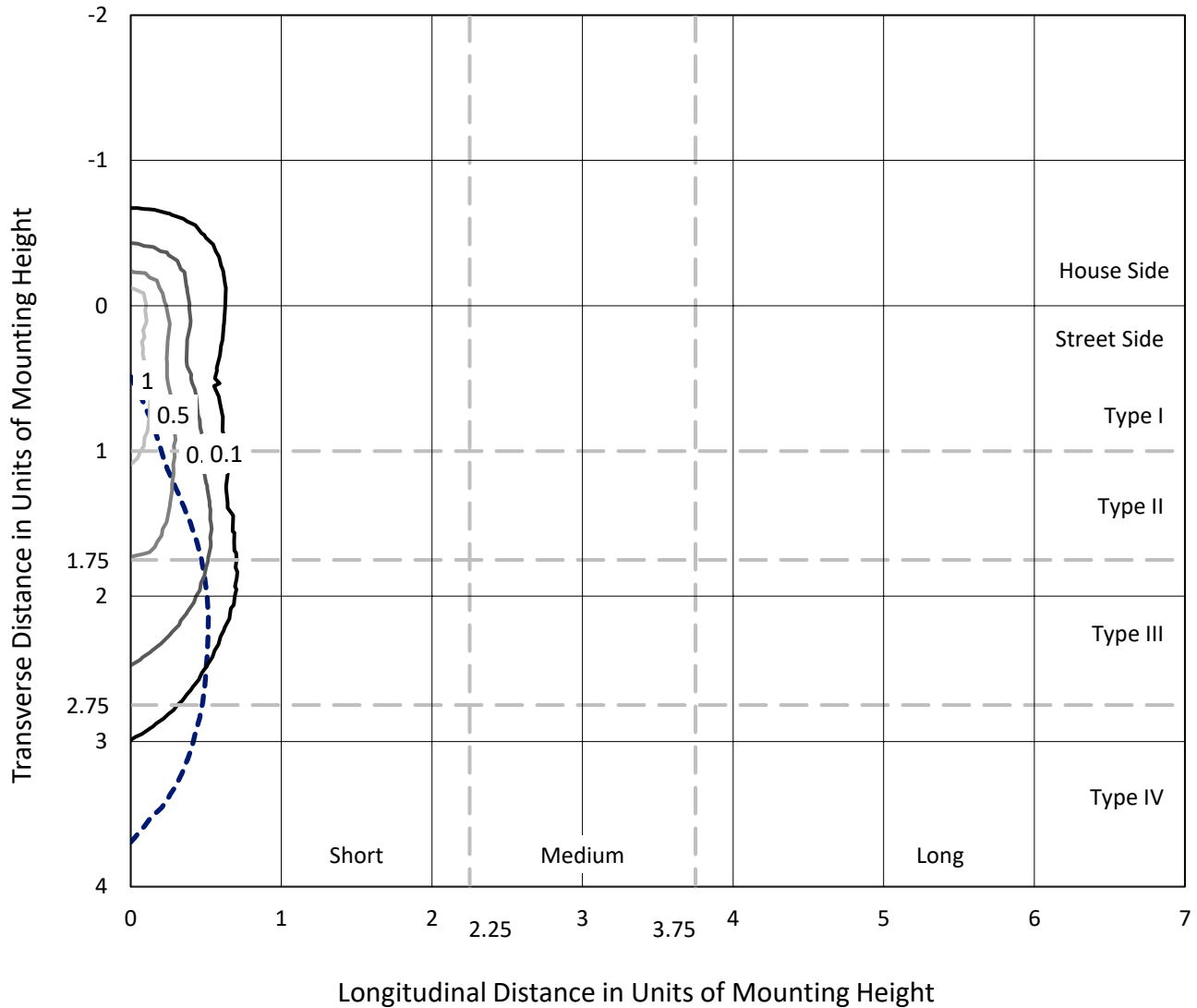
Input Watts (W): 34.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

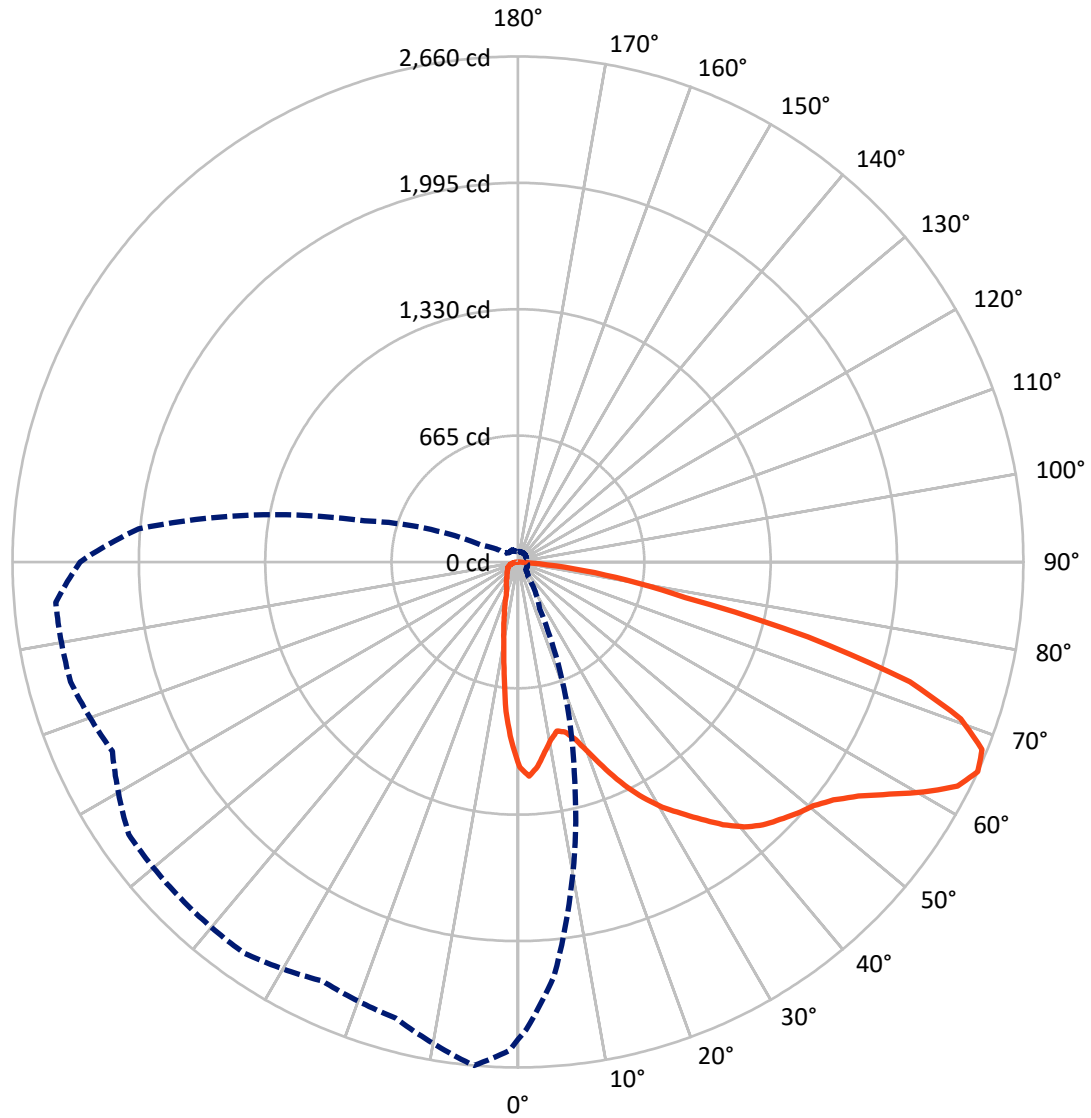
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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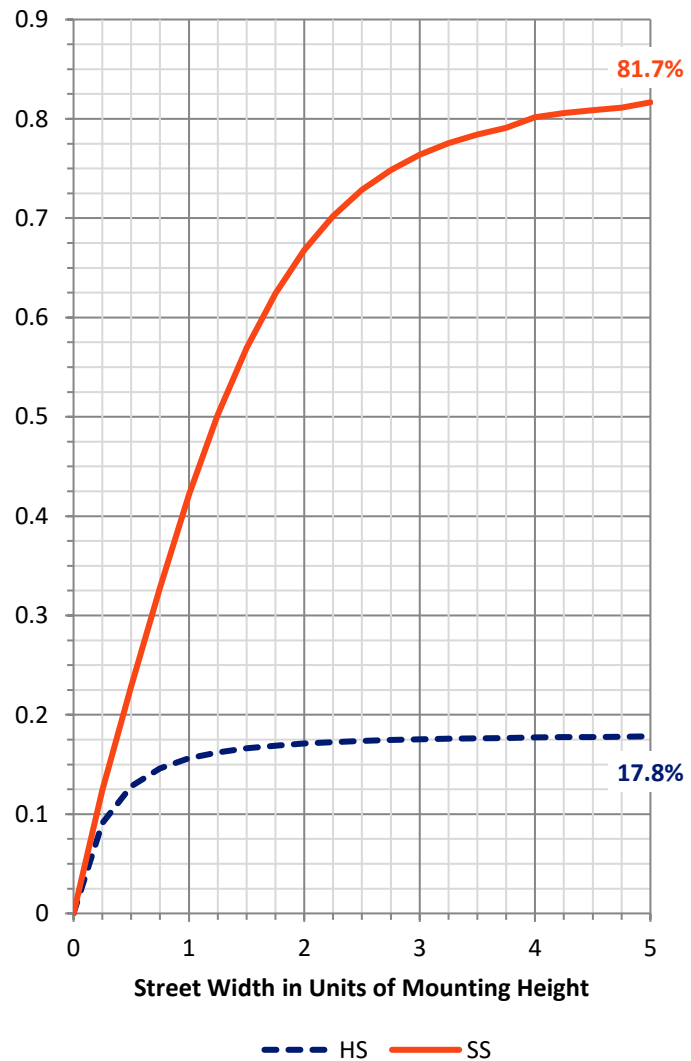
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 608.1 | 0.0 | 608.1 |
| | % Fixture | 18.0 | 0.0 | 18.0 |
| Street Side | Lumens | 2764.9 | 0.0 | 2764.9 |
| | % Fixture | 82.0 | 0.0 | 82.0 |
| Total | Lumens | 3373.0 | 0.0 | 3373.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 81.5 | 2.4 |
| 10°-20° | 168.2 | 5.0 |
| 20°-30° | 239.8 | 7.1 |
| 30°-40° | 342.8 | 10.2 |
| 40°-50° | 478.6 | 14.2 |
| 50°-60° | 665.7 | 19.7 |
| 60°-70° | 811.0 | 24.0 |
| 70°-80° | 499.5 | 14.8 |
| 80°-90° | 85.8 | 2.5 |
| 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° | 3373.0 | 100.0 |
| 0°-180° | 3373.0 | 100.0 |

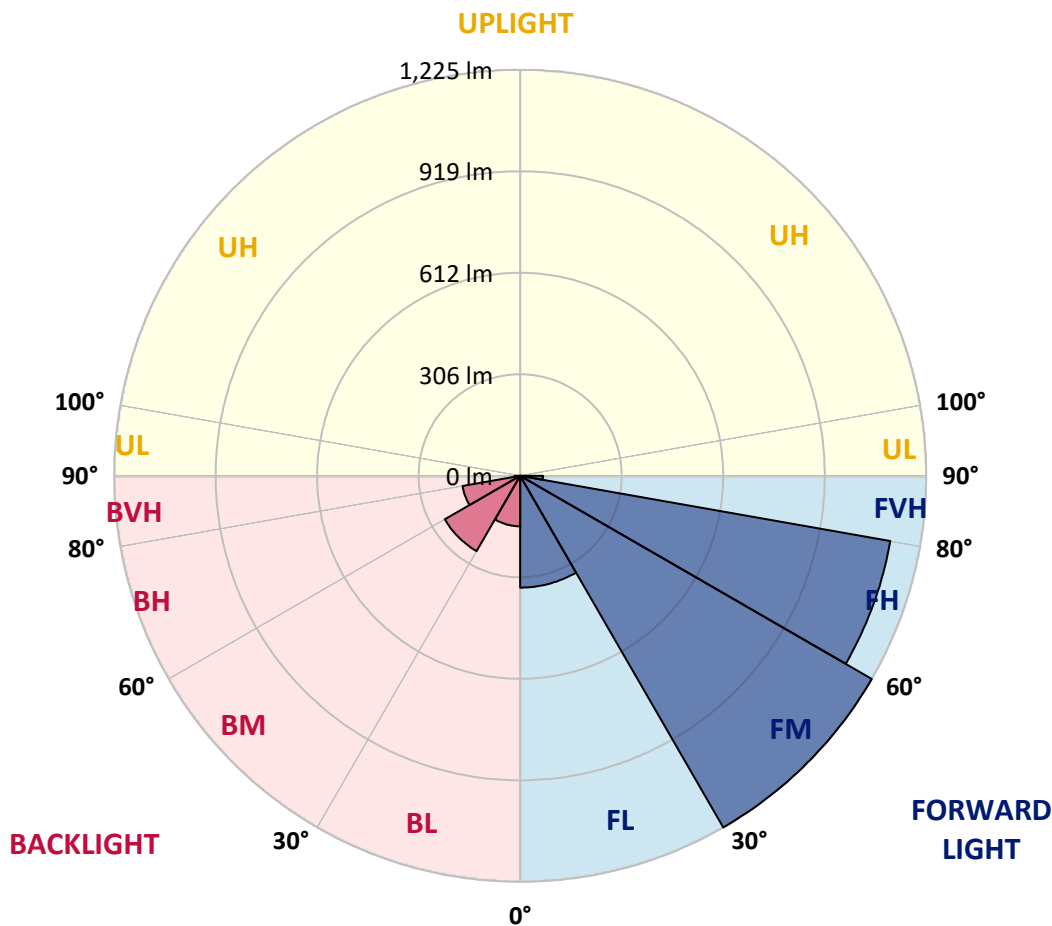


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 337.3 | 10.0 | | | |
| FM (30°-60°) | 1224.8 | 36.3 | | | |
| FH (60°-80°) | 1133.9 | 33.6 | | | G1/1800 |
| FVH (80°-90°) | 68.9 | 2.0 | | | G1/100 |
| BL (0°-30°) | 152.3 | 4.5 | B1/500 | | |
| BM (30°-60°) | 262.3 | 7.8 | B1/1000 | | |
| BH (60°-80°) | 176.6 | 5.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 16.9 | 0.5 | | | G1/100 |
| 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° | 1079.2 | 1079.2 | 1079.2 | 1079.2 | 1079.2 | 1079.2 | 1079.2 | 1079.2 | 1079.2 | 1079.2 | 1079.2 |
| 2.5° | 1106.6 | 1106.6 | 1092.9 | 1058.7 | 1027.3 | 994.5 | 983.6 | 953.6 | 934.4 | 916.7 | 923.5 |
| 5° | 1042.4 | 1038.3 | 1013.7 | 942.6 | 888.0 | 834.7 | 801.9 | 752.7 | 747.3 | 703.6 | 700.8 |
| 7.5° | 956.3 | 953.6 | 916.7 | 836.1 | 773.2 | 689.9 | 640.7 | 598.4 | 561.5 | 535.5 | 527.3 |
| 10° | 897.5 | 888.0 | 842.9 | 744.5 | 653.0 | 592.9 | 565.6 | 528.7 | 497.3 | 464.5 | 437.2 |
| 12.5° | 859.3 | 848.4 | 803.3 | 695.4 | 606.6 | 565.6 | 527.3 | 483.6 | 441.3 | 403.0 | 375.7 |
| 15° | 866.1 | 848.4 | 797.8 | 683.1 | 590.2 | 531.4 | 478.1 | 426.2 | 377.0 | 334.7 | 300.5 |
| 17.5° | 915.3 | 893.4 | 837.4 | 691.3 | 564.2 | 486.3 | 413.9 | 353.8 | 293.7 | 250.0 | 222.7 |
| 20° | 1001.4 | 969.9 | 898.9 | 714.5 | 545.1 | 444.0 | 348.4 | 269.1 | 206.3 | 176.2 | 168.0 |
| 22.5° | 1106.6 | 1079.2 | 982.2 | 733.6 | 524.6 | 396.2 | 276.0 | 194.0 | 162.6 | 147.5 | 143.4 |
| 25° | 1215.8 | 1185.8 | 1077.9 | 765.0 | 508.2 | 352.5 | 217.2 | 154.4 | 139.3 | 132.5 | 129.8 |
| 27.5° | 1327.9 | 1297.8 | 1172.1 | 815.6 | 489.1 | 306.0 | 174.9 | 135.2 | 124.3 | 118.9 | 118.9 |
| 30° | 1407.1 | 1382.5 | 1256.8 | 860.7 | 467.2 | 269.1 | 154.4 | 125.7 | 116.1 | 110.7 | 109.3 |
| 32.5° | 1495.9 | 1461.8 | 1336.1 | 890.7 | 450.8 | 240.4 | 140.7 | 117.5 | 109.3 | 102.5 | 102.5 |
| 35° | 1595.6 | 1557.4 | 1409.8 | 920.8 | 434.4 | 226.8 | 131.1 | 112.0 | 103.8 | 97.0 | 95.6 |
| 37.5° | 1704.9 | 1655.7 | 1485.0 | 946.7 | 416.7 | 219.9 | 125.7 | 106.6 | 98.4 | 92.9 | 90.2 |
| 40° | 1825.1 | 1773.2 | 1584.7 | 968.6 | 404.4 | 211.7 | 121.6 | 102.5 | 94.3 | 87.4 | 86.1 |
| 42.5° | 1926.2 | 1879.8 | 1654.4 | 982.2 | 398.9 | 200.8 | 120.2 | 98.4 | 91.5 | 83.3 | 80.6 |
| 45° | 1978.1 | 1938.5 | 1739.1 | 986.3 | 396.2 | 194.0 | 113.4 | 98.4 | 88.8 | 80.6 | 76.5 |
| 47.5° | 2023.2 | 1994.5 | 1800.5 | 1006.8 | 389.3 | 187.2 | 105.2 | 103.8 | 87.4 | 76.5 | 72.4 |
| 50° | 2099.7 | 2069.7 | 1896.2 | 1045.1 | 381.1 | 179.0 | 97.0 | 99.7 | 87.4 | 73.8 | 69.7 |
| 52.5° | 2191.3 | 2183.1 | 2021.9 | 1105.2 | 368.9 | 168.0 | 88.8 | 94.3 | 87.4 | 72.4 | 66.9 |
| 55° | 2325.1 | 2312.8 | 2188.5 | 1183.1 | 353.8 | 153.0 | 80.6 | 86.1 | 86.1 | 68.3 | 62.8 |
| 57.5° | 2438.5 | 2439.9 | 2341.5 | 1237.7 | 340.2 | 128.4 | 75.1 | 73.8 | 82.0 | 64.2 | 58.7 |
| 60° | 2490.4 | 2490.4 | 2390.7 | 1258.2 | 322.4 | 107.9 | 71.0 | 65.6 | 84.7 | 60.1 | 54.6 |
| 62.5° | 2523.2 | 2495.9 | 2322.4 | 1239.1 | 301.9 | 97.0 | 64.2 | 60.1 | 68.3 | 56.0 | 50.5 |
| 65° | 2513.7 | 2461.8 | 2185.8 | 1142.1 | 271.9 | 94.3 | 60.1 | 54.6 | 54.6 | 51.9 | 47.8 |
| 67.5° | 2427.6 | 2347.0 | 1985.0 | 978.1 | 240.4 | 92.9 | 54.6 | 50.5 | 49.2 | 46.4 | 43.7 |
| 70° | 2194.0 | 2136.6 | 1745.9 | 797.8 | 219.9 | 92.9 | 50.5 | 45.1 | 43.7 | 41.0 | 39.6 |
| 72.5° | 1793.7 | 1709.0 | 1393.4 | 598.4 | 203.6 | 92.9 | 46.4 | 39.6 | 38.3 | 36.9 | 35.5 |
| 75° | 1225.4 | 1128.4 | 979.5 | 367.5 | 159.8 | 80.6 | 41.0 | 32.8 | 32.8 | 31.4 | 30.1 |
| 77.5° | 676.2 | 654.4 | 551.9 | 194.0 | 99.7 | 49.2 | 31.4 | 26.0 | 27.3 | 26.0 | 24.6 |
| 80° | 392.1 | 368.9 | 327.9 | 94.3 | 57.4 | 28.7 | 19.1 | 19.1 | 20.5 | 20.5 | 19.1 |
| 82.5° | 189.9 | 165.3 | 169.4 | 38.3 | 20.5 | 12.3 | 8.2 | 9.6 | 10.9 | 13.7 | 13.7 |
| 85° | 6.8 | 6.8 | 13.7 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.7 | 4.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1079.2 | 1079.2 | 1079.2 | 1079.2 | 1079.2 | 1079.2 | 1079.2 | 1079.2 | 1079.2 | 1079.2 | 1079.2 |
| 2.5° | 901.6 | 901.6 | 907.1 | 930.3 | 911.2 | 908.5 | 913.9 | 923.5 | 927.6 | 946.7 | 945.4 |
| 5° | 695.4 | 691.3 | 707.7 | 729.5 | 741.8 | 748.6 | 759.6 | 784.2 | 774.6 | 789.6 | 786.9 |
| 7.5° | 513.7 | 520.5 | 513.7 | 538.3 | 557.4 | 586.1 | 607.9 | 602.5 | 603.8 | 591.5 | 609.3 |
| 10° | 419.4 | 416.7 | 400.3 | 408.5 | 419.4 | 437.2 | 452.2 | 454.9 | 468.6 | 446.7 | 461.7 |
| 12.5° | 357.9 | 347.0 | 330.6 | 322.4 | 319.7 | 333.3 | 337.4 | 344.3 | 352.5 | 359.3 | 362.0 |
| 15° | 286.9 | 278.7 | 267.8 | 255.5 | 252.7 | 252.7 | 262.3 | 271.9 | 282.8 | 285.5 | 295.1 |
| 17.5° | 214.5 | 210.4 | 206.3 | 206.3 | 206.3 | 206.3 | 214.5 | 218.6 | 224.0 | 232.2 | 230.9 |
| 20° | 162.6 | 162.6 | 163.9 | 170.8 | 174.9 | 177.6 | 183.1 | 184.4 | 183.1 | 184.4 | 184.4 |
| 22.5° | 143.4 | 142.1 | 146.2 | 148.9 | 155.7 | 162.6 | 165.3 | 163.9 | 159.8 | 157.1 | 159.8 |
| 25° | 129.8 | 131.1 | 132.5 | 136.6 | 142.1 | 148.9 | 150.3 | 148.9 | 144.8 | 144.8 | 144.8 |
| 27.5° | 118.9 | 120.2 | 123.0 | 127.0 | 132.5 | 138.0 | 139.3 | 136.6 | 132.5 | 133.9 | 132.5 |
| 30° | 110.7 | 113.4 | 114.8 | 118.9 | 123.0 | 128.4 | 128.4 | 125.7 | 123.0 | 123.0 | 123.0 |
| 32.5° | 101.1 | 103.8 | 106.6 | 110.7 | 116.1 | 118.9 | 118.9 | 117.5 | 114.8 | 113.4 | 113.4 |
| 35° | 95.6 | 95.6 | 98.4 | 103.8 | 106.6 | 109.3 | 110.7 | 109.3 | 106.6 | 103.8 | 102.5 |
| 37.5° | 90.2 | 90.2 | 91.5 | 94.3 | 99.7 | 102.5 | 103.8 | 101.1 | 98.4 | 95.6 | 95.6 |
| 40° | 84.7 | 84.7 | 86.1 | 87.4 | 92.9 | 97.0 | 97.0 | 92.9 | 90.2 | 91.5 | 90.2 |
| 42.5° | 80.6 | 80.6 | 82.0 | 82.0 | 84.7 | 91.5 | 90.2 | 87.4 | 86.1 | 86.1 | 84.7 |
| 45° | 76.5 | 75.1 | 76.5 | 76.5 | 77.9 | 84.7 | 84.7 | 80.6 | 80.6 | 82.0 | 80.6 |
| 47.5° | 72.4 | 71.0 | 72.4 | 72.4 | 73.8 | 77.9 | 77.9 | 76.5 | 76.5 | 76.5 | 77.9 |
| 50° | 68.3 | 68.3 | 68.3 | 68.3 | 69.7 | 71.0 | 73.8 | 72.4 | 72.4 | 72.4 | 73.8 |
| 52.5° | 64.2 | 64.2 | 64.2 | 65.6 | 65.6 | 68.3 | 69.7 | 68.3 | 69.7 | 69.7 | 69.7 |
| 55° | 61.5 | 60.1 | 60.1 | 62.8 | 62.8 | 65.6 | 66.9 | 65.6 | 66.9 | 66.9 | 66.9 |
| 57.5° | 57.4 | 57.4 | 57.4 | 58.7 | 60.1 | 62.8 | 65.6 | 62.8 | 64.2 | 64.2 | 65.6 |
| 60° | 53.3 | 53.3 | 53.3 | 56.0 | 57.4 | 60.1 | 61.5 | 60.1 | 61.5 | 61.5 | 61.5 |
| 62.5° | 49.2 | 50.5 | 50.5 | 51.9 | 53.3 | 57.4 | 58.7 | 57.4 | 58.7 | 58.7 | 58.7 |
| 65° | 46.4 | 46.4 | 47.8 | 49.2 | 50.5 | 53.3 | 54.6 | 54.6 | 54.6 | 56.0 | 54.6 |
| 67.5° | 42.3 | 42.3 | 43.7 | 45.1 | 46.4 | 50.5 | 50.5 | 50.5 | 51.9 | 50.5 | 50.5 |
| 70° | 38.3 | 38.3 | 39.6 | 41.0 | 42.3 | 46.4 | 46.4 | 46.4 | 47.8 | 45.1 | 45.1 |
| 72.5° | 34.2 | 34.2 | 35.5 | 36.9 | 39.6 | 43.7 | 42.3 | 42.3 | 42.3 | 41.0 | 41.0 |
| 75° | 30.1 | 30.1 | 31.4 | 32.8 | 34.2 | 39.6 | 38.3 | 36.9 | 36.9 | 35.5 | 35.5 |
| 77.5° | 24.6 | 24.6 | 26.0 | 28.7 | 30.1 | 34.2 | 32.8 | 31.4 | 30.1 | 30.1 | 30.1 |
| 80° | 19.1 | 20.5 | 21.9 | 23.2 | 24.6 | 27.3 | 26.0 | 24.6 | 23.2 | 23.2 | 23.2 |
| 82.5° | 13.7 | 15.0 | 16.4 | 17.8 | 19.1 | 19.1 | 19.1 | 19.1 | 17.8 | 16.4 | 16.4 |
| 85° | 5.5 | 8.2 | 10.9 | 10.9 | 12.3 | 10.9 | 12.3 | 10.9 | 9.6 | 9.6 | 8.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 2.7 | 4.1 | 4.1 | 4.1 | 4.1 |
| 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° | 1079.2 | 1079.2 | 1079.2 | 1079.2 | 1079.2 | 1079.2 | 1079.2 | 1079.2 | 1079.2 | 1079.2 | 1079.2 |
| 2.5° | 956.3 | 978.1 | 990.4 | 1012.3 | 1035.5 | 1066.9 | 1092.9 | 1129.8 | 1162.6 | 1169.4 | 1177.6 |
| 5° | 792.4 | 821.0 | 834.7 | 870.2 | 924.9 | 959.0 | 1013.7 | 1071.0 | 1142.1 | 1163.9 | 1192.6 |
| 7.5° | 595.6 | 617.5 | 653.0 | 684.4 | 748.6 | 806.0 | 879.8 | 963.1 | 1046.4 | 1094.3 | 1140.7 |
| 10° | 453.6 | 480.9 | 519.1 | 556.0 | 618.9 | 676.2 | 763.7 | 856.6 | 963.1 | 1006.8 | 1056.0 |
| 12.5° | 377.0 | 398.9 | 437.2 | 487.7 | 546.4 | 601.1 | 666.7 | 767.8 | 879.8 | 935.8 | 995.9 |
| 15° | 304.6 | 327.9 | 375.7 | 431.7 | 489.1 | 550.5 | 613.4 | 710.4 | 847.0 | 904.4 | 961.8 |
| 17.5° | 243.2 | 263.7 | 304.6 | 364.8 | 427.6 | 495.9 | 572.4 | 695.4 | 853.8 | 924.9 | 991.8 |
| 20° | 188.5 | 206.3 | 237.7 | 292.4 | 356.6 | 437.2 | 535.5 | 689.9 | 894.8 | 994.5 | 1061.5 |
| 22.5° | 162.6 | 169.4 | 187.2 | 225.4 | 291.0 | 385.2 | 501.4 | 694.0 | 960.4 | 1088.8 | 1165.3 |
| 25° | 144.8 | 150.3 | 157.1 | 180.3 | 232.2 | 332.0 | 471.3 | 702.2 | 1030.1 | 1195.4 | 1282.8 |
| 27.5° | 133.9 | 136.6 | 140.7 | 151.6 | 189.9 | 288.3 | 441.3 | 713.1 | 1124.3 | 1303.3 | 1388.0 |
| 30° | 123.0 | 123.0 | 127.0 | 138.0 | 166.7 | 256.8 | 419.4 | 735.0 | 1217.2 | 1396.2 | 1479.5 |
| 32.5° | 112.0 | 112.0 | 118.9 | 128.4 | 151.6 | 230.9 | 397.5 | 741.8 | 1286.9 | 1478.1 | 1545.1 |
| 35° | 102.5 | 105.2 | 110.7 | 121.6 | 142.1 | 211.7 | 377.0 | 729.5 | 1337.4 | 1547.8 | 1616.1 |
| 37.5° | 97.0 | 98.4 | 105.2 | 114.8 | 129.8 | 194.0 | 356.6 | 713.1 | 1405.7 | 1640.7 | 1694.0 |
| 40° | 90.2 | 92.9 | 99.7 | 109.3 | 121.6 | 180.3 | 333.3 | 695.4 | 1465.8 | 1744.5 | 1771.9 |
| 42.5° | 86.1 | 88.8 | 94.3 | 103.8 | 116.1 | 163.9 | 311.5 | 681.7 | 1530.1 | 1833.3 | 1852.5 |
| 45° | 82.0 | 84.7 | 91.5 | 99.7 | 116.1 | 151.6 | 289.6 | 672.1 | 1592.9 | 1901.6 | 1916.7 |
| 47.5° | 77.9 | 80.6 | 87.4 | 98.4 | 114.8 | 144.8 | 274.6 | 662.6 | 1632.5 | 1960.4 | 1964.5 |
| 50° | 75.1 | 77.9 | 86.1 | 101.1 | 110.7 | 142.1 | 267.8 | 672.1 | 1699.5 | 2006.8 | 1994.5 |
| 52.5° | 71.0 | 75.1 | 84.7 | 105.2 | 105.2 | 139.3 | 262.3 | 706.3 | 1782.8 | 2075.1 | 2043.7 |
| 55° | 69.7 | 72.4 | 82.0 | 101.1 | 95.6 | 132.5 | 262.3 | 732.2 | 1893.4 | 2210.4 | 2158.5 |
| 57.5° | 65.6 | 68.3 | 79.2 | 94.3 | 87.4 | 121.6 | 259.6 | 774.6 | 2050.6 | 2359.3 | 2312.8 |
| 60° | 61.5 | 65.6 | 76.5 | 84.7 | 79.2 | 107.9 | 247.3 | 821.0 | 2158.5 | 2439.9 | 2448.1 |
| 62.5° | 58.7 | 62.8 | 76.5 | 73.8 | 72.4 | 94.3 | 228.1 | 849.7 | 2147.5 | 2413.9 | 2491.8 |
| 65° | 54.6 | 58.7 | 69.7 | 66.9 | 68.3 | 84.7 | 203.6 | 836.1 | 2004.1 | 2304.6 | 2441.3 |
| 67.5° | 50.5 | 54.6 | 60.1 | 60.1 | 62.8 | 82.0 | 177.6 | 756.8 | 1848.4 | 2172.1 | 2329.2 |
| 70° | 46.4 | 49.2 | 51.9 | 54.6 | 57.4 | 80.6 | 157.1 | 648.9 | 1669.4 | 2045.1 | 2169.4 |
| 72.5° | 41.0 | 42.3 | 45.1 | 47.8 | 53.3 | 76.5 | 148.9 | 527.3 | 1422.1 | 1770.5 | 1963.1 |
| 75° | 35.5 | 36.9 | 39.6 | 42.3 | 46.4 | 72.4 | 136.6 | 400.3 | 1172.1 | 1398.9 | 1586.1 |
| 77.5° | 30.1 | 31.4 | 34.2 | 35.5 | 39.6 | 64.2 | 117.5 | 289.6 | 912.6 | 1008.2 | 1159.8 |
| 80° | 23.2 | 24.6 | 27.3 | 27.3 | 32.8 | 47.8 | 91.5 | 202.2 | 640.7 | 714.5 | 793.7 |
| 82.5° | 16.4 | 17.8 | 19.1 | 20.5 | 24.6 | 32.8 | 60.1 | 121.6 | 434.4 | 490.4 | 476.8 |
| 85° | 9.6 | 10.9 | 10.9 | 13.7 | 15.0 | 21.9 | 34.2 | 62.8 | 284.2 | 224.0 | 221.3 |
| 87.5° | 4.1 | 4.1 | 4.1 | 5.5 | 5.5 | 8.2 | 10.9 | 12.3 | 27.3 | 9.6 | 6.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P437295

CATALOG NUMBER: ISS-SA1C-727-U-SLR

CANDELA DISTRIBUTION (continued):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1079.2 | 1079.2 | 1079.2 | 1079.2 | 1079.2 | 1079.2 | 1079.2 | 1079.2 | 1079.2 | 1079.2 |
| 2.5° | 1189.9 | 1199.5 | 1206.3 | 1203.6 | 1199.5 | 1176.2 | 1153.0 | 1128.4 | 1106.6 | 1106.6 |
| 5° | 1239.1 | 1278.7 | 1295.1 | 1281.4 | 1251.4 | 1203.6 | 1143.4 | 1080.6 | 1050.5 | 1042.4 |
| 7.5° | 1213.1 | 1288.3 | 1327.9 | 1310.1 | 1270.5 | 1183.1 | 1091.5 | 1009.6 | 964.5 | 956.3 |
| 10° | 1161.2 | 1259.6 | 1304.6 | 1299.2 | 1255.5 | 1154.4 | 1043.7 | 950.8 | 903.0 | 897.5 |
| 12.5° | 1101.1 | 1196.7 | 1254.1 | 1256.8 | 1228.1 | 1139.3 | 1023.2 | 912.6 | 870.2 | 859.3 |
| 15° | 1064.2 | 1147.5 | 1187.2 | 1177.6 | 1185.8 | 1127.1 | 1031.4 | 927.6 | 875.7 | 866.1 |
| 17.5° | 1065.6 | 1101.1 | 1110.7 | 1095.6 | 1127.1 | 1124.3 | 1077.9 | 982.2 | 924.9 | 915.3 |
| 20° | 1101.1 | 1071.0 | 1041.0 | 1038.3 | 1079.2 | 1133.9 | 1151.6 | 1073.8 | 1008.2 | 1001.4 |
| 22.5° | 1162.6 | 1062.8 | 1000.0 | 990.4 | 1042.4 | 1143.4 | 1222.7 | 1185.8 | 1124.3 | 1106.6 |
| 25° | 1230.9 | 1071.0 | 974.0 | 961.8 | 1008.2 | 1150.3 | 1299.2 | 1300.5 | 1232.2 | 1215.8 |
| 27.5° | 1304.6 | 1097.0 | 974.0 | 960.4 | 1009.6 | 1161.2 | 1349.7 | 1404.4 | 1341.5 | 1327.9 |
| 30° | 1370.2 | 1133.9 | 983.6 | 968.6 | 1026.0 | 1172.1 | 1383.9 | 1497.3 | 1426.2 | 1407.1 |
| 32.5° | 1409.8 | 1165.3 | 1006.8 | 979.5 | 1054.6 | 1194.0 | 1415.3 | 1576.5 | 1521.9 | 1495.9 |
| 35° | 1441.3 | 1202.2 | 1045.1 | 1009.6 | 1097.0 | 1229.5 | 1441.3 | 1662.6 | 1610.7 | 1595.6 |
| 37.5° | 1464.5 | 1245.9 | 1084.7 | 1050.5 | 1153.0 | 1277.3 | 1478.1 | 1754.1 | 1737.7 | 1704.9 |
| 40° | 1502.7 | 1273.2 | 1155.7 | 1143.4 | 1250.0 | 1352.5 | 1521.9 | 1833.3 | 1844.3 | 1825.1 |
| 42.5° | 1536.9 | 1326.5 | 1256.8 | 1270.5 | 1374.3 | 1435.8 | 1580.6 | 1892.1 | 1950.8 | 1926.2 |
| 45° | 1564.2 | 1400.3 | 1383.9 | 1429.0 | 1517.8 | 1542.4 | 1613.4 | 1933.1 | 1994.5 | 1978.1 |
| 47.5° | 1602.5 | 1497.3 | 1553.3 | 1612.0 | 1685.8 | 1653.0 | 1647.5 | 1976.8 | 2039.6 | 2023.2 |
| 50° | 1657.1 | 1610.7 | 1722.7 | 1799.2 | 1847.0 | 1743.2 | 1689.9 | 2016.4 | 2109.3 | 2099.7 |
| 52.5° | 1713.1 | 1741.8 | 1894.8 | 1965.9 | 1997.3 | 1855.2 | 1750.0 | 2079.2 | 2191.3 | 2191.3 |
| 55° | 1816.9 | 1870.2 | 2077.9 | 2123.0 | 2165.3 | 1956.3 | 1830.6 | 2173.5 | 2318.3 | 2325.1 |
| 57.5° | 1968.6 | 2008.2 | 2217.2 | 2269.1 | 2280.1 | 2069.7 | 1957.7 | 2304.6 | 2426.2 | 2438.5 |
| 60° | 2125.7 | 2144.8 | 2355.2 | 2401.6 | 2364.8 | 2215.9 | 2106.6 | 2457.7 | 2497.3 | 2490.4 |
| 62.5° | 2299.2 | 2277.3 | 2450.8 | 2483.6 | 2474.0 | 2344.3 | 2293.7 | 2597.0 | 2549.2 | 2523.2 |
| 65° | 2437.2 | 2355.2 | 2500.0 | 2506.8 | 2512.3 | 2433.1 | 2485.0 | 2659.8 | 2571.0 | 2513.7 |
| 67.5° | 2520.5 | 2367.5 | 2400.3 | 2368.9 | 2390.7 | 2409.8 | 2614.8 | 2633.9 | 2478.1 | 2427.6 |
| 70° | 2501.4 | 2194.0 | 2046.5 | 2010.9 | 2012.3 | 2146.2 | 2531.4 | 2471.3 | 2266.4 | 2194.0 |
| 72.5° | 2325.1 | 1844.3 | 1629.8 | 1582.0 | 1591.5 | 1603.8 | 2128.4 | 2157.1 | 1832.0 | 1793.7 |
| 75° | 1957.7 | 1420.8 | 1173.5 | 1162.6 | 1148.9 | 1202.2 | 1702.2 | 1576.5 | 1215.8 | 1225.4 |
| 77.5° | 1597.0 | 1046.4 | 862.0 | 806.0 | 797.8 | 806.0 | 1161.2 | 900.3 | 706.3 | 676.2 |
| 80° | 1151.6 | 696.7 | 643.4 | 631.1 | 592.9 | 476.8 | 607.9 | 579.2 | 398.9 | 392.1 |
| 82.5° | 758.2 | 480.9 | 491.8 | 409.8 | 385.2 | 301.9 | 368.9 | 295.1 | 199.5 | 189.9 |
| 85° | 393.4 | 250.0 | 206.3 | 90.2 | 101.1 | 84.7 | 80.6 | 65.6 | 6.8 | 6.8 |
| 87.5° | 13.7 | 5.5 | 4.1 | 4.1 | 2.7 | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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

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
 CIE u': 0.2605
 CIE v': 0.5272
 Duv: 0.0005
 CIE x: 0.4573
 CIE y: 0.4113
 CIE z: 0.1313
 Peak Wavelength (nm): 602
 Dominant Wavelength (nm): 583
 Purity: 61.2

| | | | |
|-----------|------|------|-------|
| CRI (Ra): | 71.5 | | |
| R1: | 69.2 | R9: | -16.1 |
| R2: | 79.4 | R10: | 51.4 |
| R3: | 87.8 | R11: | 63.1 |
| R4: | 69.4 | R12: | 42.0 |
| R5: | 66.4 | R13: | 70.2 |
| R6: | 69.8 | R14: | 92.4 |
| R7: | 79.8 | | |
| R8: | 50.1 | | |

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

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 |

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

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 2700K 4-step quadrangle

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

Photopic Flux vs. Wavelength



Photopic Lumens: 6211.7

| λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) |
|----------------|-----------------------------------|-----------------------------|----------------|-----------------------------------|-----------------------------|----------------|-----------------------------------|-----------------------------|----------------|-----------------------------------|-----------------------------|----------------|-----------------------------------|-----------------------------|
| 360 | 2044 | 0.0 | 490 | 7179 | 1.0 | 620 | 118034 | 30.7 | 750 | 8362 | 0.0 | 880 | 3128 | 0.0 |
| 365 | 2016 | 0.0 | 495 | 10476 | 1.9 | 625 | 111884 | 24.7 | 755 | 7635 | 0.0 | 885 | 3110 | 0.0 |
| 370 | 2020 | 0.0 | 500 | 15549 | 3.4 | 630 | 106119 | 19.2 | 760 | 6582 | 0.0 | 890 | 2632 | 0.0 |
| 375 | 2137 | 0.0 | 505 | 22477 | 6.3 | 635 | 99706 | 15.0 | 765 | 5777 | 0.0 | 895 | 2709 | 0.0 |
| 380 | 2046 | 0.0 | 510 | 30417 | 10.4 | 640 | 92142 | 11.0 | 770 | 5474 | 0.0 | 900 | 2016 | 0.0 |
| 385 | 1925 | 0.0 | 515 | 39274 | 16.3 | 645 | 84987 | 8.2 | 775 | 4977 | 0.0 | 905 | 1748 | 0.0 |
| 390 | 1893 | 0.0 | 520 | 47282 | 22.9 | 650 | 78016 | 5.7 | 780 | 4723 | 0.0 | 910 | 2046 | 0.0 |
| 395 | 1695 | 0.0 | 525 | 55413 | 29.7 | 655 | 71541 | 4.1 | 785 | 4219 | 0.0 | 915 | 1844 | 0.0 |
| 400 | 1633 | 0.0 | 530 | 62377 | 36.7 | 660 | 64863 | 2.7 | 790 | 3969 | 0.0 | 920 | 2734 | 0.0 |
| 405 | 2065 | 0.0 | 535 | 68520 | 42.5 | 665 | 58485 | 1.9 | 795 | 4122 | 0.0 | 925 | 2307 | 0.0 |
| 410 | 3449 | 0.0 | 540 | 73435 | 47.8 | 670 | 51641 | 1.1 | 800 | 2864 | 0.0 | 930 | 2039 | 0.0 |
| 415 | 7117 | 0.0 | 545 | 78677 | 52.4 | 675 | 46030 | 0.8 | 805 | 3151 | 0.0 | 935 | 1784 | 0.0 |
| 420 | 13992 | 0.0 | 550 | 83331 | 56.6 | 680 | 40590 | 0.5 | 810 | 3022 | 0.0 | 940 | 2464 | 0.0 |
| 425 | 25176 | 0.1 | 555 | 89120 | 60.9 | 685 | 35691 | 0.3 | 815 | 3471 | 0.0 | 945 | 2794 | 0.0 |
| 430 | 38151 | 0.3 | 560 | 94613 | 64.3 | 690 | 31631 | 0.2 | 820 | 2749 | 0.0 | 950 | 3090 | 0.0 |
| 435 | 49673 | 0.6 | 565 | 99818 | 66.4 | 695 | 27437 | 0.1 | 825 | 2729 | 0.0 | 955 | 1866 | 0.0 |
| 440 | 57273 | 0.9 | 570 | 106526 | 69.3 | 700 | 24589 | 0.1 | 830 | 2282 | 0.0 | 960 | 3110 | 0.0 |
| 445 | 54802 | 1.1 | 575 | 111610 | 69.4 | 705 | 21832 | 0.0 | 835 | 3140 | 0.0 | 965 | 3880 | 0.0 |
| 450 | 39184 | 1.0 | 580 | 117163 | 69.6 | 710 | 19500 | 0.0 | 840 | 2365 | 0.0 | 970 | 3243 | 0.0 |
| 455 | 22506 | 0.8 | 585 | 122201 | 67.9 | 715 | 17870 | 0.0 | 845 | 3024 | 0.0 | 975 | 2014 | 0.0 |
| 460 | 13692 | 0.6 | 590 | 125662 | 65.0 | 720 | 15924 | 0.0 | 850 | 2510 | 0.0 | 980 | 1688 | 0.0 |
| 465 | 9446 | 0.5 | 595 | 127415 | 60.4 | 725 | 14268 | 0.0 | 855 | 2739 | 0.0 | 985 | 2827 | 0.0 |
| 470 | 6698 | 0.4 | 600 | 129155 | 55.7 | 730 | 12438 | 0.0 | 860 | 3515 | 0.0 | 990 | 4172 | 0.0 |
| 475 | 5328 | 0.4 | 605 | 128057 | 49.6 | 735 | 11255 | 0.0 | 865 | 3600 | 0.0 | 995 | 3177 | 0.0 |
| 480 | 5081 | 0.5 | 610 | 126031 | 43.3 | 740 | 9951 | 0.0 | 870 | 3609 | 0.0 | 1000 | 3241 | 0.0 |
| 485 | 5579 | 0.7 | 615 | 123059 | 37.1 | 745 | 8870 | 0.0 | 875 | 3208 | 0.0 | | | |

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 | 0.0 | 490 | 7179 | 6.0 | 620 | 118034 | 0.1 | 750 | 8362 | 0.0 | 880 | 3128 | 0.0 |
| 365 | 2016 | 0.0 | 495 | 10476 | 8.6 | 625 | 111884 | 0.1 | 755 | 7635 | 0.0 | 885 | 3110 | 0.0 |
| 370 | 2020 | 0.0 | 500 | 15549 | 12.5 | 630 | 106119 | 0.0 | 760 | 6582 | 0.0 | 890 | 2632 | 0.0 |
| 375 | 2137 | 0.0 | 505 | 22477 | 17.3 | 635 | 99706 | 0.0 | 765 | 5777 | 0.0 | 895 | 2709 | 0.0 |
| 380 | 2046 | 0.0 | 510 | 30417 | 21.8 | 640 | 92142 | 0.0 | 770 | 5474 | 0.0 | 900 | 2016 | 0.0 |
| 385 | 1925 | 0.0 | 515 | 39274 | 25.7 | 645 | 84987 | 0.0 | 775 | 4977 | 0.0 | 905 | 1748 | 0.0 |
| 390 | 1893 | 0.0 | 520 | 47282 | 27.5 | 650 | 78016 | 0.0 | 780 | 4723 | 0.0 | 910 | 2046 | 0.0 |
| 395 | 1695 | 0.0 | 525 | 55413 | 28.1 | 655 | 71541 | 0.0 | 785 | 4219 | 0.0 | 915 | 1844 | 0.0 |
| 400 | 1633 | 0.0 | 530 | 62377 | 27.0 | 660 | 64863 | 0.0 | 790 | 3969 | 0.0 | 920 | 2734 | 0.0 |
| 405 | 2065 | 0.0 | 535 | 68520 | 24.7 | 665 | 58485 | 0.0 | 795 | 4122 | 0.0 | 925 | 2307 | 0.0 |
| 410 | 3449 | 0.1 | 540 | 73435 | 21.5 | 670 | 51641 | 0.0 | 800 | 2864 | 0.0 | 930 | 2039 | 0.0 |
| 415 | 7117 | 0.5 | 545 | 78677 | 18.3 | 675 | 46030 | 0.0 | 805 | 3151 | 0.0 | 935 | 1784 | 0.0 |
| 420 | 13992 | 1.6 | 550 | 83331 | 15.0 | 680 | 40590 | 0.0 | 810 | 3022 | 0.0 | 940 | 2464 | 0.0 |
| 425 | 25176 | 3.9 | 555 | 89120 | 12.0 | 685 | 35691 | 0.0 | 815 | 3471 | 0.0 | 945 | 2794 | 0.0 |
| 430 | 38151 | 8.1 | 560 | 94613 | 9.3 | 690 | 31631 | 0.0 | 820 | 2749 | 0.0 | 950 | 3090 | 0.0 |
| 435 | 49673 | 13.3 | 565 | 99818 | 7.0 | 695 | 27437 | 0.0 | 825 | 2729 | 0.0 | 955 | 1866 | 0.0 |
| 440 | 57273 | 19.1 | 570 | 106526 | 5.2 | 700 | 24589 | 0.0 | 830 | 2282 | 0.0 | 960 | 3110 | 0.0 |
| 445 | 54802 | 21.6 | 575 | 111610 | 3.7 | 705 | 21832 | 0.0 | 835 | 3140 | 0.0 | 965 | 3880 | 0.0 |
| 450 | 39184 | 18.1 | 580 | 117163 | 2.6 | 710 | 19500 | 0.0 | 840 | 2365 | 0.0 | 970 | 3243 | 0.0 |
| 455 | 22506 | 11.8 | 585 | 122201 | 1.8 | 715 | 17870 | 0.0 | 845 | 3024 | 0.0 | 975 | 2014 | 0.0 |
| 460 | 13692 | 8.1 | 590 | 125662 | 1.2 | 720 | 15924 | 0.0 | 850 | 2510 | 0.0 | 980 | 1688 | 0.0 |
| 465 | 9446 | 6.2 | 595 | 127415 | 0.8 | 725 | 14268 | 0.0 | 855 | 2739 | 0.0 | 985 | 2827 | 0.0 |
| 470 | 6698 | 4.8 | 600 | 129155 | 0.5 | 730 | 12438 | 0.0 | 860 | 3515 | 0.0 | 990 | 4172 | 0.0 |
| 475 | 5328 | 4.1 | 605 | 128057 | 0.4 | 735 | 11255 | 0.0 | 865 | 3600 | 0.0 | 995 | 3177 | 0.0 |
| 480 | 5081 | 4.1 | 610 | 126031 | 0.2 | 740 | 9951 | 0.0 | 870 | 3609 | 0.0 | 1000 | 3241 | 0.0 |
| 485 | 5579 | 4.6 | 615 | 123059 | 0.1 | 745 | 8870 | 0.0 | 875 | 3208 | 0.0 | | | |

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 | 0.0 | 490 | 7179 | 11.1 | 620 | 118034 | 1.5 | 750 | 8362 | 0.0 | 880 | 3128 | 0.0 |
| 365 | 2016 | 0.0 | 495 | 10476 | 16.9 | 625 | 111884 | 0.9 | 755 | 7635 | 0.0 | 885 | 3110 | 0.0 |
| 370 | 2020 | 0.0 | 500 | 15549 | 26.0 | 630 | 106119 | 0.6 | 760 | 6582 | 0.0 | 890 | 2632 | 0.0 |
| 375 | 2137 | 0.0 | 505 | 22477 | 38.2 | 635 | 99706 | 0.4 | 765 | 5777 | 0.0 | 895 | 2709 | 0.0 |
| 380 | 2046 | 0.0 | 510 | 30417 | 51.6 | 640 | 92142 | 0.2 | 770 | 5474 | 0.0 | 900 | 2016 | 0.0 |
| 385 | 1925 | 0.0 | 515 | 39274 | 65.1 | 645 | 84987 | 0.1 | 775 | 4977 | 0.0 | 905 | 1748 | 0.0 |
| 390 | 1893 | 0.0 | 520 | 47282 | 75.2 | 650 | 78016 | 0.1 | 780 | 4723 | 0.0 | 910 | 2046 | 0.0 |
| 395 | 1695 | 0.0 | 525 | 55413 | 82.9 | 655 | 71541 | 0.1 | 785 | 4219 | 0.0 | 915 | 1844 | 0.0 |
| 400 | 1633 | 0.0 | 530 | 62377 | 86.0 | 660 | 64863 | 0.0 | 790 | 3969 | 0.0 | 920 | 2734 | 0.0 |
| 405 | 2065 | 0.1 | 535 | 68520 | 85.4 | 665 | 58485 | 0.0 | 795 | 4122 | 0.0 | 925 | 2307 | 0.0 |
| 410 | 3449 | 0.2 | 540 | 73435 | 81.1 | 670 | 51641 | 0.0 | 800 | 2864 | 0.0 | 930 | 2039 | 0.0 |
| 415 | 7117 | 0.7 | 545 | 78677 | 75.4 | 675 | 46030 | 0.0 | 805 | 3151 | 0.0 | 935 | 1784 | 0.0 |
| 420 | 13992 | 2.3 | 550 | 83331 | 68.1 | 680 | 40590 | 0.0 | 810 | 3022 | 0.0 | 940 | 2464 | 0.0 |
| 425 | 25176 | 6.2 | 555 | 89120 | 60.9 | 685 | 35691 | 0.0 | 815 | 3471 | 0.0 | 945 | 2794 | 0.0 |
| 430 | 38151 | 13.0 | 560 | 94613 | 52.9 | 690 | 31631 | 0.0 | 820 | 2749 | 0.0 | 950 | 3090 | 0.0 |
| 435 | 49673 | 22.2 | 565 | 99818 | 44.8 | 695 | 27437 | 0.0 | 825 | 2729 | 0.0 | 955 | 1866 | 0.0 |
| 440 | 57273 | 32.0 | 570 | 106526 | 37.6 | 700 | 24589 | 0.0 | 830 | 2282 | 0.0 | 960 | 3110 | 0.0 |
| 445 | 54802 | 36.7 | 575 | 111610 | 30.4 | 705 | 21832 | 0.0 | 835 | 3140 | 0.0 | 965 | 3880 | 0.0 |
| 450 | 39184 | 30.4 | 580 | 117163 | 24.1 | 710 | 19500 | 0.0 | 840 | 2365 | 0.0 | 970 | 3243 | 0.0 |
| 455 | 22506 | 19.7 | 585 | 122201 | 18.7 | 715 | 17870 | 0.0 | 845 | 3024 | 0.0 | 975 | 2014 | 0.0 |
| 460 | 13692 | 13.2 | 590 | 125662 | 14.0 | 720 | 15924 | 0.0 | 850 | 2510 | 0.0 | 980 | 1688 | 0.0 |
| 465 | 9446 | 10.0 | 595 | 127415 | 10.2 | 725 | 14268 | 0.0 | 855 | 2739 | 0.0 | 985 | 2827 | 0.0 |
| 470 | 6698 | 7.7 | 600 | 129155 | 7.3 | 730 | 12438 | 0.0 | 860 | 3515 | 0.0 | 990 | 4172 | 0.0 |
| 475 | 5328 | 6.7 | 605 | 128057 | 5.0 | 735 | 11255 | 0.0 | 865 | 3600 | 0.0 | 995 | 3177 | 0.0 |
| 480 | 5081 | 6.9 | 610 | 126031 | 3.4 | 740 | 9951 | 0.0 | 870 | 3609 | 0.0 | 1000 | 3241 | 0.0 |
| 485 | 5579 | 8.1 | 615 | 123059 | 2.3 | 745 | 8870 | 0.0 | 875 | 3208 | 0.0 | | | |

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

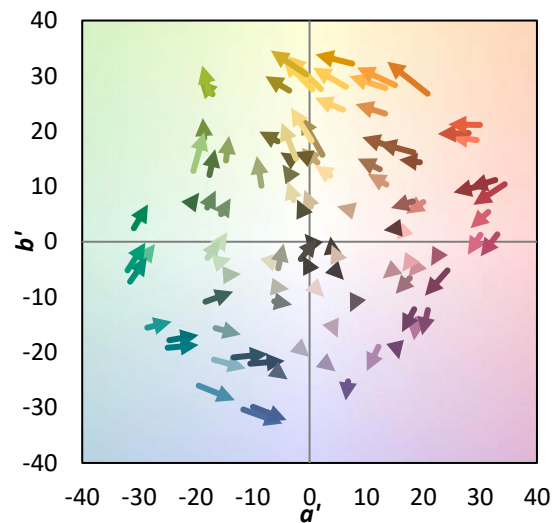
TM-30-18

Summary

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



Color Vector Graphics

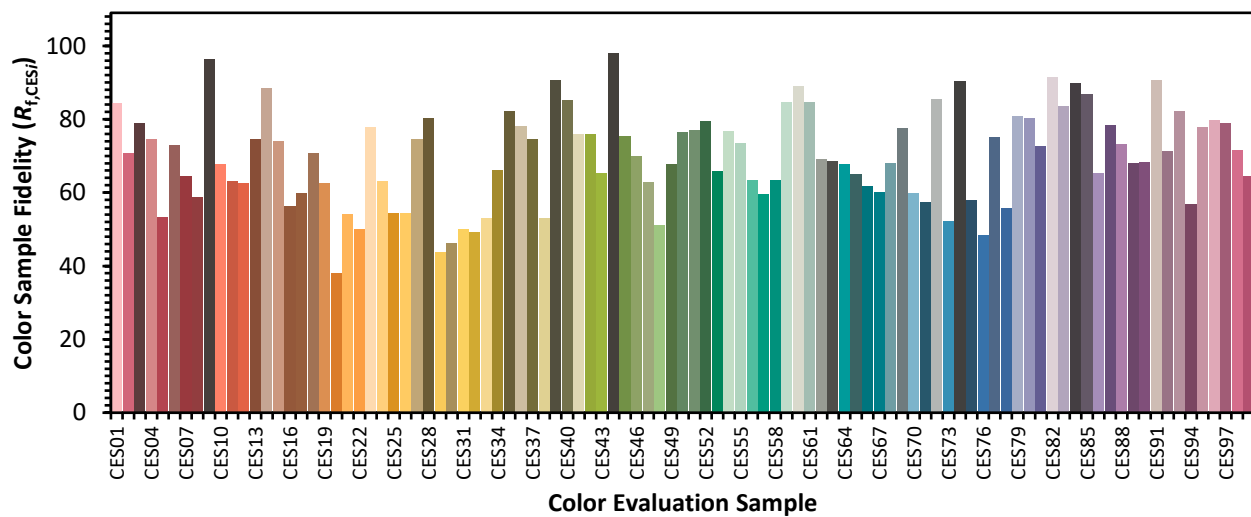


REPORT NUMBER: SP1-1908-441-1-R4

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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Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)