

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: P438682

Luminaire Tested: **IST-SA1E-730-U-SLR**

Issue Date: 12/10/2020

Test Information

Test Method: LM-79-08
Report Number: P438682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-074-22)
Test Lab: INNOVATION CENTER
Issue Date: 12/10/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-SA1E-730-U-SLR
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5796 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

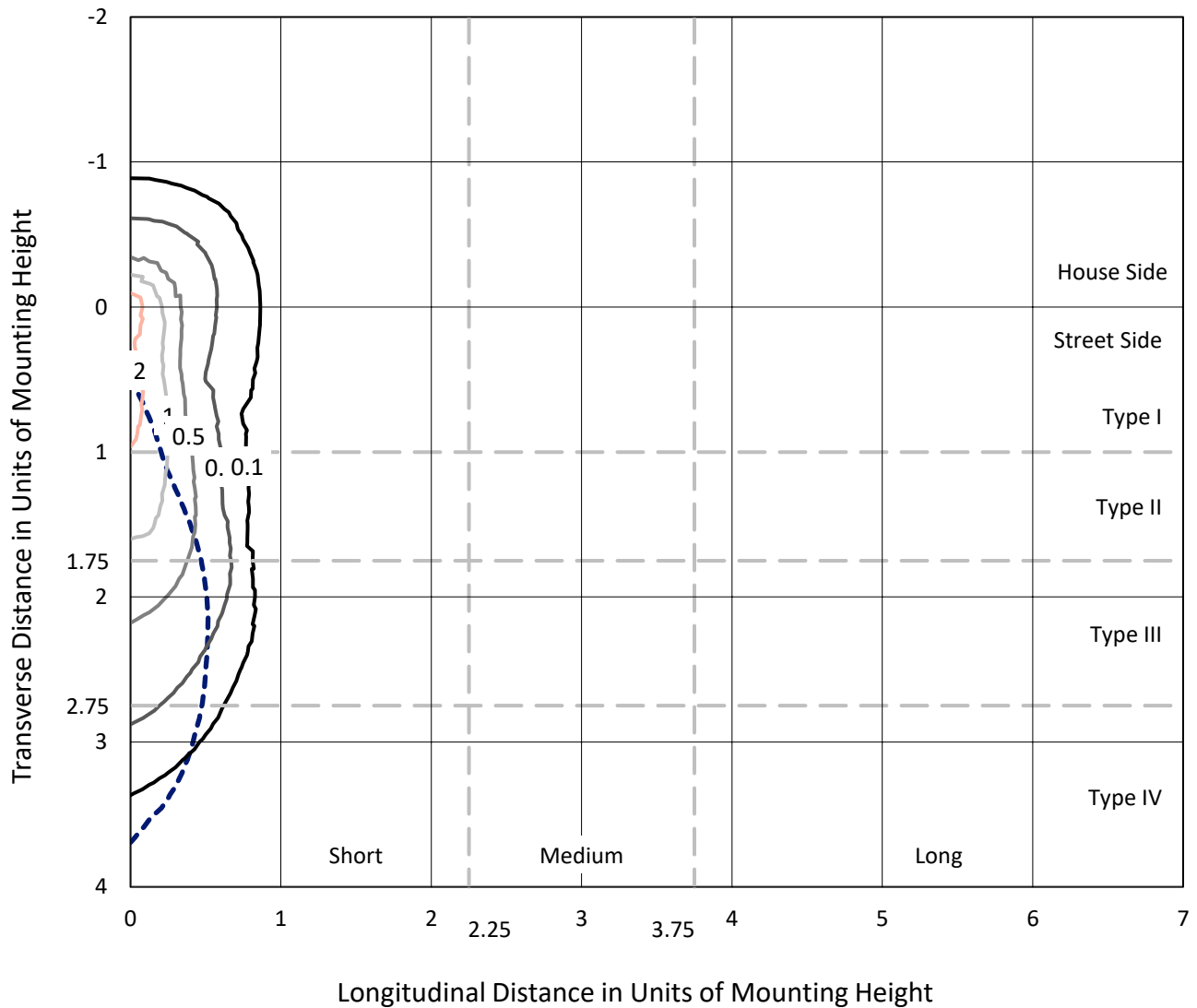
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P438682
 CATALOG NUMBER: IST-SA1E-730-U-SLR

Iso-Footcandle Lines of Horizontal Illumination

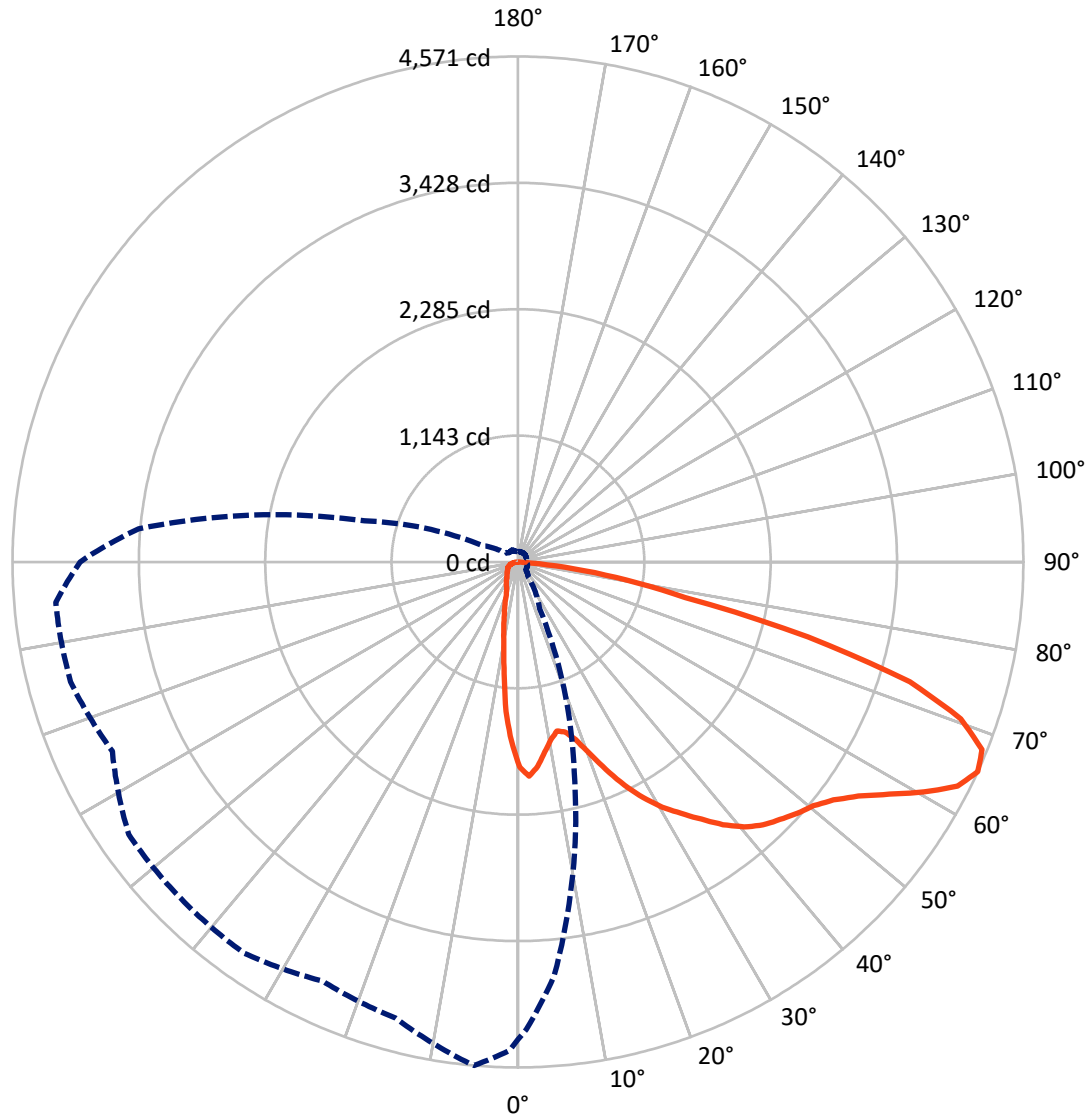
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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 | 1044.9 | 0.0 | 1044.9 |
| | % Fixture | 18.0 | 0.0 | 18.0 |
| Street Side | Lumens | 4751.1 | 0.0 | 4751.1 |
| | % Fixture | 82.0 | 0.0 | 82.0 |
| Total | Lumens | 5796.0 | 0.0 | 5796.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 140.0 | 2.4 |
| 10°-20° | 289.1 | 5.0 |
| 20°-30° | 412.1 | 7.1 |
| 30°-40° | 589.0 | 10.2 |
| 40°-50° | 822.5 | 14.2 |
| 50°-60° | 1144.0 | 19.7 |
| 60°-70° | 1393.6 | 24.0 |
| 70°-80° | 858.3 | 14.8 |
| 80°-90° | 147.4 | 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° | 5796.0 | 100.0 |
| 0°-180° | 5796.0 | 100.0 |

Coefficient of Utilization

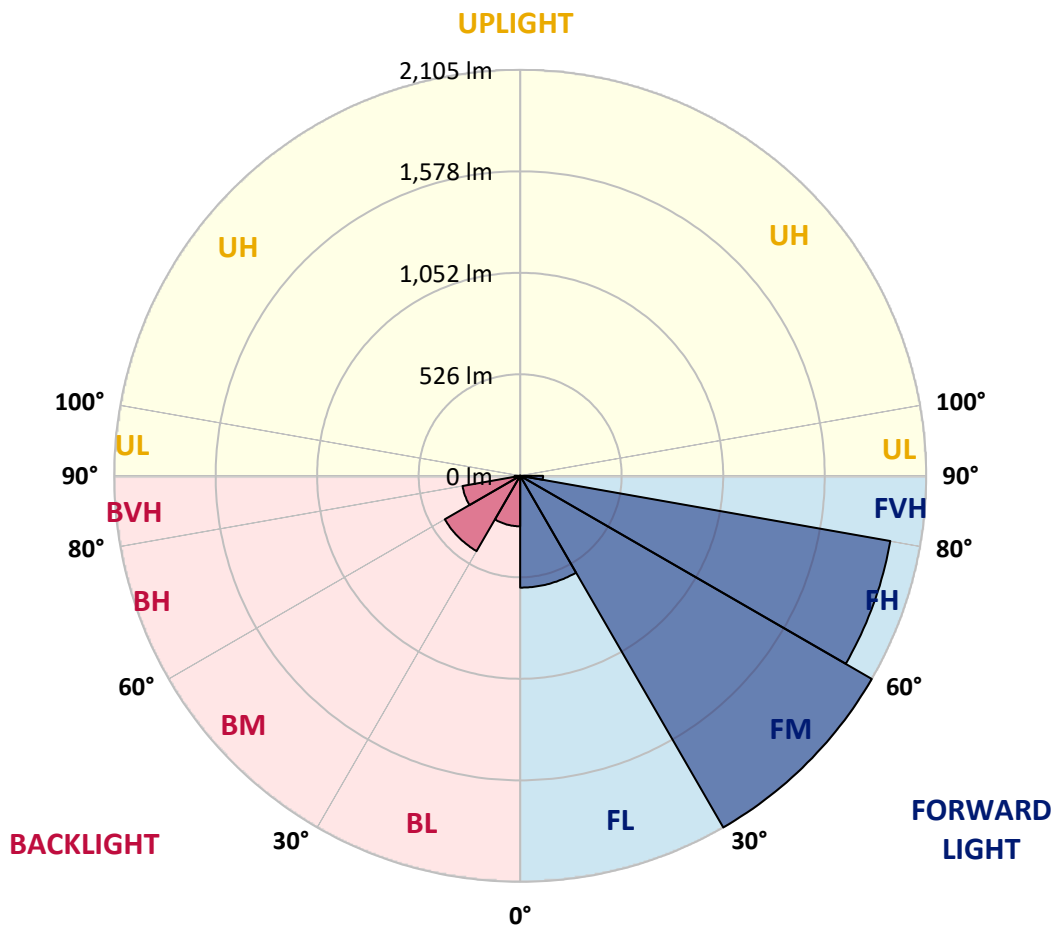


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 579.5 | 10.0 | | | |
| FM (30°-60°) | 2104.7 | 36.3 | | | |
| FH (60°-80°) | 1948.5 | 33.6 | | | G2/5000 |
| FVH (80°-90°) | 118.5 | 2.0 | | | G2/225 |
| BL (0°-30°) | 261.7 | 4.5 | B1/500 | | |
| BM (30°-60°) | 450.8 | 7.8 | B1/1000 | | |
| BH (60°-80°) | 303.4 | 5.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 29.0 | 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-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1854.5 | 1854.5 | 1854.5 | 1854.5 | 1854.5 | 1854.5 | 1854.5 | 1854.5 | 1854.5 | 1854.5 | 1854.5 |
| 2.5° | 1901.5 | 1901.5 | 1878.0 | 1819.3 | 1765.3 | 1709.0 | 1690.2 | 1638.5 | 1605.7 | 1575.2 | 1586.9 |
| 5° | 1791.1 | 1784.1 | 1741.8 | 1619.8 | 1525.9 | 1434.3 | 1378.0 | 1293.5 | 1284.1 | 1209.0 | 1204.3 |
| 7.5° | 1643.2 | 1638.5 | 1575.2 | 1436.7 | 1328.7 | 1185.5 | 1101.0 | 1028.2 | 964.8 | 920.2 | 906.1 |
| 10° | 1542.3 | 1525.9 | 1448.4 | 1279.4 | 1122.1 | 1018.8 | 971.9 | 908.5 | 854.5 | 798.1 | 751.2 |
| 12.5° | 1476.6 | 1457.8 | 1380.3 | 1194.9 | 1042.3 | 971.9 | 906.1 | 831.0 | 758.2 | 692.5 | 645.6 |
| 15° | 1488.3 | 1457.8 | 1370.9 | 1173.7 | 1014.1 | 913.2 | 821.6 | 732.4 | 647.9 | 575.1 | 516.4 |
| 17.5° | 1572.8 | 1535.3 | 1439.0 | 1187.8 | 969.5 | 835.7 | 711.3 | 608.0 | 504.7 | 429.6 | 382.6 |
| 20° | 1720.7 | 1666.7 | 1544.6 | 1227.7 | 936.6 | 762.9 | 598.6 | 462.5 | 354.5 | 302.8 | 288.7 |
| 22.5° | 1901.5 | 1854.5 | 1687.8 | 1260.6 | 901.4 | 680.8 | 474.2 | 333.3 | 279.4 | 253.5 | 246.5 |
| 25° | 2089.3 | 2037.6 | 1852.2 | 1314.6 | 873.3 | 605.6 | 373.2 | 265.3 | 239.4 | 227.7 | 223.0 |
| 27.5° | 2281.7 | 2230.1 | 2014.1 | 1401.4 | 840.4 | 525.8 | 300.5 | 232.4 | 213.6 | 204.2 | 204.2 |
| 30° | 2417.9 | 2375.6 | 2159.7 | 1478.9 | 802.8 | 462.5 | 265.3 | 216.0 | 199.5 | 190.1 | 187.8 |
| 32.5° | 2570.5 | 2511.8 | 2295.8 | 1530.6 | 774.7 | 413.2 | 241.8 | 201.9 | 187.8 | 176.1 | 176.1 |
| 35° | 2741.9 | 2676.1 | 2422.6 | 1582.2 | 746.5 | 389.7 | 225.4 | 192.5 | 178.4 | 166.7 | 164.3 |
| 37.5° | 2929.7 | 2845.1 | 2551.7 | 1626.8 | 716.0 | 377.9 | 216.0 | 183.1 | 169.0 | 159.6 | 154.9 |
| 40° | 3136.2 | 3047.0 | 2723.1 | 1664.4 | 694.9 | 363.9 | 208.9 | 176.1 | 162.0 | 150.2 | 147.9 |
| 42.5° | 3309.9 | 3230.1 | 2842.8 | 1687.8 | 685.5 | 345.1 | 206.6 | 169.0 | 157.3 | 143.2 | 138.5 |
| 45° | 3399.1 | 3331.1 | 2988.3 | 1694.9 | 680.8 | 333.3 | 194.8 | 169.0 | 152.6 | 138.5 | 131.5 |
| 47.5° | 3476.6 | 3427.3 | 3094.0 | 1730.1 | 669.0 | 321.6 | 180.8 | 178.4 | 150.2 | 131.5 | 124.4 |
| 50° | 3608.1 | 3556.4 | 3258.3 | 1795.8 | 654.9 | 307.5 | 166.7 | 171.4 | 150.2 | 126.8 | 119.7 |
| 52.5° | 3765.4 | 3751.3 | 3474.3 | 1899.1 | 633.8 | 288.7 | 152.6 | 162.0 | 150.2 | 124.4 | 115.0 |
| 55° | 3995.4 | 3974.3 | 3760.7 | 2032.9 | 608.0 | 262.9 | 138.5 | 147.9 | 147.9 | 117.4 | 108.0 |
| 57.5° | 4190.3 | 4192.6 | 4023.6 | 2126.8 | 584.5 | 220.7 | 129.1 | 126.8 | 140.8 | 110.3 | 100.9 |
| 60° | 4279.5 | 4279.5 | 4108.1 | 2162.0 | 554.0 | 185.5 | 122.1 | 112.7 | 145.5 | 103.3 | 93.9 |
| 62.5° | 4335.8 | 4288.8 | 3990.7 | 2129.2 | 518.8 | 166.7 | 110.3 | 103.3 | 117.4 | 96.2 | 86.9 |
| 65° | 4319.4 | 4230.2 | 3756.0 | 1962.5 | 467.1 | 162.0 | 103.3 | 93.9 | 93.9 | 89.2 | 82.2 |
| 67.5° | 4171.5 | 4033.0 | 3410.9 | 1680.8 | 413.2 | 159.6 | 93.9 | 86.9 | 84.5 | 79.8 | 75.1 |
| 70° | 3770.1 | 3671.5 | 3000.1 | 1370.9 | 377.9 | 159.6 | 86.9 | 77.5 | 75.1 | 70.4 | 68.1 |
| 72.5° | 3082.2 | 2936.7 | 2394.4 | 1028.2 | 349.8 | 159.6 | 79.8 | 68.1 | 65.7 | 63.4 | 61.0 |
| 75° | 2105.7 | 1939.0 | 1683.1 | 631.5 | 274.7 | 138.5 | 70.4 | 56.3 | 56.3 | 54.0 | 51.6 |
| 77.5° | 1162.0 | 1124.4 | 948.4 | 333.3 | 171.4 | 84.5 | 54.0 | 44.6 | 46.9 | 44.6 | 42.3 |
| 80° | 673.7 | 633.8 | 563.4 | 162.0 | 98.6 | 49.3 | 32.9 | 32.9 | 35.2 | 35.2 | 32.9 |
| 82.5° | 326.3 | 284.0 | 291.1 | 65.7 | 35.2 | 21.1 | 14.1 | 16.4 | 18.8 | 23.5 | 23.5 |
| 85° | 11.7 | 11.7 | 23.5 | 4.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.7 | 7.0 |
| 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° | 1854.5 | 1854.5 | 1854.5 | 1854.5 | 1854.5 | 1854.5 | 1854.5 | 1854.5 | 1854.5 | 1854.5 | 1854.5 |
| 2.5° | 1549.3 | 1549.3 | 1558.7 | 1598.6 | 1565.8 | 1561.1 | 1570.5 | 1586.9 | 1593.9 | 1626.8 | 1624.5 |
| 5° | 1194.9 | 1187.8 | 1216.0 | 1253.6 | 1274.7 | 1286.4 | 1305.2 | 1347.5 | 1331.0 | 1356.8 | 1352.1 |
| 7.5° | 882.7 | 894.4 | 882.7 | 924.9 | 957.8 | 1007.1 | 1044.6 | 1035.2 | 1037.6 | 1016.5 | 1047.0 |
| 10° | 720.7 | 716.0 | 687.8 | 701.9 | 720.7 | 751.2 | 777.0 | 781.7 | 805.2 | 767.6 | 793.4 |
| 12.5° | 615.0 | 596.3 | 568.1 | 554.0 | 549.3 | 572.8 | 579.8 | 591.6 | 605.6 | 617.4 | 622.1 |
| 15° | 493.0 | 478.9 | 460.1 | 439.0 | 434.3 | 434.3 | 450.7 | 467.1 | 485.9 | 490.6 | 507.1 |
| 17.5° | 368.6 | 361.5 | 354.5 | 354.5 | 354.5 | 354.5 | 368.6 | 375.6 | 385.0 | 399.1 | 396.7 |
| 20° | 279.4 | 279.4 | 281.7 | 293.4 | 300.5 | 305.2 | 314.6 | 316.9 | 314.6 | 316.9 | 316.9 |
| 22.5° | 246.5 | 244.1 | 251.2 | 255.9 | 267.6 | 279.4 | 284.0 | 281.7 | 274.7 | 270.0 | 274.7 |
| 25° | 223.0 | 225.4 | 227.7 | 234.7 | 244.1 | 255.9 | 258.2 | 255.9 | 248.8 | 248.8 | 248.8 |
| 27.5° | 204.2 | 206.6 | 211.3 | 218.3 | 227.7 | 237.1 | 239.4 | 234.7 | 227.7 | 230.1 | 227.7 |
| 30° | 190.1 | 194.8 | 197.2 | 204.2 | 211.3 | 220.7 | 220.7 | 216.0 | 211.3 | 211.3 | 211.3 |
| 32.5° | 173.7 | 178.4 | 183.1 | 190.1 | 199.5 | 204.2 | 204.2 | 201.9 | 197.2 | 194.8 | 194.8 |
| 35° | 164.3 | 164.3 | 169.0 | 178.4 | 183.1 | 187.8 | 190.1 | 187.8 | 183.1 | 178.4 | 176.1 |
| 37.5° | 154.9 | 154.9 | 157.3 | 162.0 | 171.4 | 176.1 | 178.4 | 173.7 | 169.0 | 164.3 | 164.3 |
| 40° | 145.5 | 145.5 | 147.9 | 150.2 | 159.6 | 166.7 | 166.7 | 159.6 | 154.9 | 157.3 | 154.9 |
| 42.5° | 138.5 | 138.5 | 140.8 | 140.8 | 145.5 | 157.3 | 154.9 | 150.2 | 147.9 | 147.9 | 145.5 |
| 45° | 131.5 | 129.1 | 131.5 | 131.5 | 133.8 | 145.5 | 145.5 | 138.5 | 138.5 | 140.8 | 138.5 |
| 47.5° | 124.4 | 122.1 | 124.4 | 124.4 | 126.8 | 133.8 | 133.8 | 131.5 | 131.5 | 131.5 | 133.8 |
| 50° | 117.4 | 117.4 | 117.4 | 117.4 | 119.7 | 122.1 | 126.8 | 124.4 | 124.4 | 124.4 | 126.8 |
| 52.5° | 110.3 | 110.3 | 110.3 | 112.7 | 112.7 | 117.4 | 119.7 | 117.4 | 119.7 | 119.7 | 119.7 |
| 55° | 105.6 | 103.3 | 103.3 | 108.0 | 108.0 | 112.7 | 115.0 | 112.7 | 115.0 | 115.0 | 115.0 |
| 57.5° | 98.6 | 98.6 | 98.6 | 100.9 | 103.3 | 108.0 | 112.7 | 108.0 | 110.3 | 110.3 | 112.7 |
| 60° | 91.6 | 91.6 | 91.6 | 96.2 | 98.6 | 103.3 | 105.6 | 103.3 | 105.6 | 105.6 | 105.6 |
| 62.5° | 84.5 | 86.9 | 86.9 | 89.2 | 91.6 | 98.6 | 100.9 | 98.6 | 100.9 | 100.9 | 100.9 |
| 65° | 79.8 | 79.8 | 82.2 | 84.5 | 86.9 | 91.6 | 93.9 | 93.9 | 93.9 | 96.2 | 93.9 |
| 67.5° | 72.8 | 72.8 | 75.1 | 77.5 | 79.8 | 86.9 | 86.9 | 86.9 | 89.2 | 86.9 | 86.9 |
| 70° | 65.7 | 65.7 | 68.1 | 70.4 | 72.8 | 79.8 | 79.8 | 79.8 | 82.2 | 77.5 | 77.5 |
| 72.5° | 58.7 | 58.7 | 61.0 | 63.4 | 68.1 | 75.1 | 72.8 | 72.8 | 72.8 | 70.4 | 70.4 |
| 75° | 51.6 | 51.6 | 54.0 | 56.3 | 58.7 | 68.1 | 65.7 | 63.4 | 63.4 | 61.0 | 61.0 |
| 77.5° | 42.3 | 42.3 | 44.6 | 49.3 | 51.6 | 58.7 | 56.3 | 54.0 | 51.6 | 51.6 | 51.6 |
| 80° | 32.9 | 35.2 | 37.6 | 39.9 | 42.3 | 46.9 | 44.6 | 42.3 | 39.9 | 39.9 | 39.9 |
| 82.5° | 23.5 | 25.8 | 28.2 | 30.5 | 32.9 | 32.9 | 32.9 | 32.9 | 30.5 | 28.2 | 28.2 |
| 85° | 9.4 | 14.1 | 18.8 | 18.8 | 21.1 | 18.8 | 21.1 | 18.8 | 16.4 | 16.4 | 14.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3 | 4.7 | 7.0 | 7.0 | 7.0 | 7.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1854.5 | 1854.5 | 1854.5 | 1854.5 | 1854.5 | 1854.5 | 1854.5 | 1854.5 | 1854.5 | 1854.5 | 1854.5 |
| 2.5° | 1643.2 | 1680.8 | 1701.9 | 1739.5 | 1779.4 | 1833.4 | 1878.0 | 1941.4 | 1997.7 | 2009.4 | 2023.5 |
| 5° | 1361.5 | 1410.8 | 1434.3 | 1495.3 | 1589.2 | 1647.9 | 1741.8 | 1840.4 | 1962.5 | 2000.1 | 2049.3 |
| 7.5° | 1023.5 | 1061.1 | 1122.1 | 1176.1 | 1286.4 | 1385.0 | 1511.8 | 1655.0 | 1798.2 | 1880.3 | 1960.1 |
| 10° | 779.4 | 826.3 | 892.0 | 955.4 | 1063.4 | 1162.0 | 1312.2 | 1471.9 | 1655.0 | 1730.1 | 1814.6 |
| 12.5° | 647.9 | 685.5 | 751.2 | 838.1 | 939.0 | 1032.9 | 1145.6 | 1319.3 | 1511.8 | 1608.0 | 1711.3 |
| 15° | 523.5 | 563.4 | 645.6 | 741.8 | 840.4 | 946.0 | 1054.0 | 1220.7 | 1455.4 | 1554.0 | 1652.6 |
| 17.5° | 417.9 | 453.1 | 523.5 | 626.8 | 734.8 | 852.1 | 983.6 | 1194.9 | 1467.2 | 1589.2 | 1704.3 |
| 20° | 324.0 | 354.5 | 408.5 | 502.4 | 612.7 | 751.2 | 920.2 | 1185.5 | 1537.6 | 1709.0 | 1824.0 |
| 22.5° | 279.4 | 291.1 | 321.6 | 387.3 | 500.0 | 662.0 | 861.5 | 1192.5 | 1650.3 | 1870.9 | 2002.4 |
| 25° | 248.8 | 258.2 | 270.0 | 309.9 | 399.1 | 570.4 | 809.9 | 1206.6 | 1770.0 | 2054.0 | 2204.3 |
| 27.5° | 230.1 | 234.7 | 241.8 | 260.6 | 326.3 | 495.3 | 758.2 | 1225.4 | 1932.0 | 2239.5 | 2385.0 |
| 30° | 211.3 | 211.3 | 218.3 | 237.1 | 286.4 | 441.3 | 720.7 | 1262.9 | 2091.6 | 2399.1 | 2542.3 |
| 32.5° | 192.5 | 192.5 | 204.2 | 220.7 | 260.6 | 396.7 | 683.1 | 1274.7 | 2211.3 | 2540.0 | 2655.0 |
| 35° | 176.1 | 180.8 | 190.1 | 208.9 | 244.1 | 363.9 | 647.9 | 1253.6 | 2298.2 | 2659.7 | 2777.1 |
| 37.5° | 166.7 | 169.0 | 180.8 | 197.2 | 223.0 | 333.3 | 612.7 | 1225.4 | 2415.6 | 2819.3 | 2910.9 |
| 40° | 154.9 | 159.6 | 171.4 | 187.8 | 208.9 | 309.9 | 572.8 | 1194.9 | 2518.8 | 2997.7 | 3044.7 |
| 42.5° | 147.9 | 152.6 | 162.0 | 178.4 | 199.5 | 281.7 | 535.2 | 1171.4 | 2629.2 | 3150.3 | 3183.2 |
| 45° | 140.8 | 145.5 | 157.3 | 171.4 | 199.5 | 260.6 | 497.7 | 1155.0 | 2737.2 | 3267.7 | 3293.5 |
| 47.5° | 133.8 | 138.5 | 150.2 | 169.0 | 197.2 | 248.8 | 471.8 | 1138.5 | 2805.2 | 3368.6 | 3375.7 |
| 50° | 129.1 | 133.8 | 147.9 | 173.7 | 190.1 | 244.1 | 460.1 | 1155.0 | 2920.3 | 3448.4 | 3427.3 |
| 52.5° | 122.1 | 129.1 | 145.5 | 180.8 | 180.8 | 239.4 | 450.7 | 1213.6 | 3063.5 | 3565.8 | 3511.8 |
| 55° | 119.7 | 124.4 | 140.8 | 173.7 | 164.3 | 227.7 | 450.7 | 1258.2 | 3253.6 | 3798.2 | 3709.0 |
| 57.5° | 112.7 | 117.4 | 136.2 | 162.0 | 150.2 | 208.9 | 446.0 | 1331.0 | 3523.6 | 4054.1 | 3974.3 |
| 60° | 105.6 | 112.7 | 131.5 | 145.5 | 136.2 | 185.5 | 424.9 | 1410.8 | 3709.0 | 4192.6 | 4206.7 |
| 62.5° | 100.9 | 108.0 | 131.5 | 126.8 | 124.4 | 162.0 | 392.0 | 1460.1 | 3690.2 | 4148.0 | 4281.8 |
| 65° | 93.9 | 100.9 | 119.7 | 115.0 | 117.4 | 145.5 | 349.8 | 1436.7 | 3443.8 | 3960.2 | 4194.9 |
| 67.5° | 86.9 | 93.9 | 103.3 | 103.3 | 108.0 | 140.8 | 305.2 | 1300.5 | 3176.1 | 3732.5 | 4002.5 |
| 70° | 79.8 | 84.5 | 89.2 | 93.9 | 98.6 | 138.5 | 270.0 | 1115.1 | 2868.6 | 3514.2 | 3727.8 |
| 72.5° | 70.4 | 72.8 | 77.5 | 82.2 | 91.6 | 131.5 | 255.9 | 906.1 | 2443.7 | 3042.3 | 3373.3 |
| 75° | 61.0 | 63.4 | 68.1 | 72.8 | 79.8 | 124.4 | 234.7 | 687.8 | 2014.1 | 2403.8 | 2725.4 |
| 77.5° | 51.6 | 54.0 | 58.7 | 61.0 | 68.1 | 110.3 | 201.9 | 497.7 | 1568.1 | 1732.4 | 1993.0 |
| 80° | 39.9 | 42.3 | 46.9 | 46.9 | 56.3 | 82.2 | 157.3 | 347.4 | 1101.0 | 1227.7 | 1363.9 |
| 82.5° | 28.2 | 30.5 | 32.9 | 35.2 | 42.3 | 56.3 | 103.3 | 208.9 | 746.5 | 842.7 | 819.3 |
| 85° | 16.4 | 18.8 | 18.8 | 23.5 | 25.8 | 37.6 | 58.7 | 108.0 | 488.3 | 385.0 | 380.3 |
| 87.5° | 7.0 | 7.0 | 7.0 | 9.4 | 9.4 | 14.1 | 18.8 | 21.1 | 46.9 | 16.4 | 11.7 |
| 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: P438682

CATALOG NUMBER: IST-SA1E-730-U-SLR

CANDELA DISTRIBUTION (continued):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1854.5 | 1854.5 | 1854.5 | 1854.5 | 1854.5 | 1854.5 | 1854.5 | 1854.5 | 1854.5 | 1854.5 |
| 2.5° | 2044.7 | 2061.1 | 2072.8 | 2068.1 | 2061.1 | 2021.2 | 1981.3 | 1939.0 | 1901.5 | 1901.5 |
| 5° | 2129.2 | 2197.2 | 2225.4 | 2201.9 | 2150.3 | 2068.1 | 1964.8 | 1856.9 | 1805.2 | 1791.1 |
| 7.5° | 2084.6 | 2213.7 | 2281.7 | 2251.2 | 2183.2 | 2032.9 | 1875.6 | 1734.8 | 1657.3 | 1643.2 |
| 10° | 1995.4 | 2164.4 | 2241.8 | 2232.5 | 2157.3 | 1983.6 | 1793.5 | 1633.8 | 1551.7 | 1542.3 |
| 12.5° | 1892.1 | 2056.4 | 2155.0 | 2159.7 | 2110.4 | 1957.8 | 1758.3 | 1568.1 | 1495.3 | 1476.6 |
| 15° | 1828.7 | 1971.9 | 2040.0 | 2023.5 | 2037.6 | 1936.7 | 1772.3 | 1593.9 | 1504.7 | 1488.3 |
| 17.5° | 1831.0 | 1892.1 | 1908.5 | 1882.7 | 1936.7 | 1932.0 | 1852.2 | 1687.8 | 1589.2 | 1572.8 |
| 20° | 1892.1 | 1840.4 | 1788.8 | 1784.1 | 1854.5 | 1948.4 | 1978.9 | 1845.1 | 1732.4 | 1720.7 |
| 22.5° | 1997.7 | 1826.3 | 1718.4 | 1701.9 | 1791.1 | 1964.8 | 2101.0 | 2037.6 | 1932.0 | 1901.5 |
| 25° | 2115.1 | 1840.4 | 1673.8 | 1652.6 | 1732.4 | 1976.6 | 2232.5 | 2234.8 | 2117.4 | 2089.3 |
| 27.5° | 2241.8 | 1885.0 | 1673.8 | 1650.3 | 1734.8 | 1995.4 | 2319.3 | 2413.2 | 2305.2 | 2281.7 |
| 30° | 2354.5 | 1948.4 | 1690.2 | 1664.4 | 1763.0 | 2014.1 | 2378.0 | 2572.8 | 2450.8 | 2417.9 |
| 32.5° | 2422.6 | 2002.4 | 1730.1 | 1683.1 | 1812.3 | 2051.7 | 2432.0 | 2709.0 | 2615.1 | 2570.5 |
| 35° | 2476.6 | 2065.8 | 1795.8 | 1734.8 | 1885.0 | 2112.7 | 2476.6 | 2856.9 | 2767.7 | 2741.9 |
| 37.5° | 2516.5 | 2140.9 | 1863.9 | 1805.2 | 1981.3 | 2194.9 | 2540.0 | 3014.2 | 2986.0 | 2929.7 |
| 40° | 2582.2 | 2187.9 | 1986.0 | 1964.8 | 2147.9 | 2324.0 | 2615.1 | 3150.3 | 3169.1 | 3136.2 |
| 42.5° | 2640.9 | 2279.4 | 2159.7 | 2183.2 | 2361.6 | 2467.2 | 2716.0 | 3251.3 | 3352.2 | 3309.9 |
| 45° | 2687.9 | 2406.2 | 2378.0 | 2455.5 | 2608.0 | 2650.3 | 2772.4 | 3321.7 | 3427.3 | 3399.1 |
| 47.5° | 2753.6 | 2572.8 | 2669.1 | 2770.0 | 2896.8 | 2840.4 | 2831.1 | 3396.8 | 3504.8 | 3476.6 |
| 50° | 2847.5 | 2767.7 | 2960.2 | 3091.6 | 3173.8 | 2995.4 | 2903.8 | 3464.9 | 3624.5 | 3608.1 |
| 52.5° | 2943.7 | 2993.0 | 3256.0 | 3378.0 | 3432.0 | 3187.9 | 3007.1 | 3572.9 | 3765.4 | 3765.4 |
| 55° | 3122.1 | 3213.7 | 3570.5 | 3648.0 | 3720.8 | 3361.6 | 3145.6 | 3734.8 | 3983.7 | 3995.4 |
| 57.5° | 3382.7 | 3450.8 | 3810.0 | 3899.2 | 3917.9 | 3556.4 | 3363.9 | 3960.2 | 4169.1 | 4190.3 |
| 60° | 3652.7 | 3685.5 | 4047.1 | 4126.9 | 4063.5 | 3807.6 | 3619.8 | 4223.1 | 4291.2 | 4279.5 |
| 62.5° | 3950.8 | 3913.2 | 4211.4 | 4267.7 | 4251.3 | 4028.3 | 3941.4 | 4462.6 | 4380.4 | 4335.8 |
| 65° | 4187.9 | 4047.1 | 4295.9 | 4307.6 | 4317.0 | 4180.9 | 4270.1 | 4570.5 | 4418.0 | 4319.4 |
| 67.5° | 4331.1 | 4068.2 | 4124.5 | 4070.5 | 4108.1 | 4141.0 | 4493.1 | 4525.9 | 4258.3 | 4171.5 |
| 70° | 4298.2 | 3770.1 | 3516.5 | 3455.5 | 3457.8 | 3687.9 | 4349.9 | 4246.6 | 3894.5 | 3770.1 |
| 72.5° | 3995.4 | 3169.1 | 2800.5 | 2718.4 | 2734.8 | 2755.9 | 3657.4 | 3706.7 | 3148.0 | 3082.2 |
| 75° | 3363.9 | 2441.4 | 2016.5 | 1997.7 | 1974.2 | 2065.8 | 2925.0 | 2709.0 | 2089.3 | 2105.7 |
| 77.5° | 2744.2 | 1798.2 | 1481.3 | 1385.0 | 1370.9 | 1385.0 | 1995.4 | 1547.0 | 1213.6 | 1162.0 |
| 80° | 1978.9 | 1197.2 | 1105.7 | 1084.5 | 1018.8 | 819.3 | 1044.6 | 995.3 | 685.5 | 673.7 |
| 82.5° | 1302.9 | 826.3 | 845.1 | 704.2 | 662.0 | 518.8 | 633.8 | 507.1 | 342.7 | 326.3 |
| 85° | 676.1 | 429.6 | 354.5 | 154.9 | 173.7 | 145.5 | 138.5 | 112.7 | 11.7 | 11.7 |
| 87.5° | 23.5 | 9.4 | 7.0 | 7.0 | 4.7 | 2.3 | 2.3 | 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 |

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



Test Information

Test Method: LM-79-2008
 Report Number: SP1-1908-441-2-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-730-U-5WQ**
 Description: MCGRAW EDISON ROADWAY AND AREA LUMINAIRE

THIS IS A REVISION OF SP1-1908-441-2-R3. TO UPDATE THE CATALOG INFORMATION.TESTED IN SITU. (1) 70 CRI, 3000K, 1050MA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS.

Spectral Parameters

CCT (K): 2993
 CIE u': 0.2508
 CIE v': 0.5215
 Duv: 0.0000
 CIE x: 0.4374
 CIE y: 0.4043
 CIE z: 0.1583
 Peak Wavelength (nm): 593
 Dominant Wavelength (nm): 582
 Purity: 53

| | | | |
|-----------|------|------|-------|
| CRI (Ra): | 71.8 | | |
| R1: | 67.5 | R9: | -38.3 |
| R2: | 82.9 | R10: | 62.5 |
| R3: | 94.7 | R11: | 63.7 |
| R4: | 67.7 | R12: | 57.8 |
| R5: | 67.9 | R13: | 70.4 |
| R6: | 77.6 | R14: | 97.3 |
| R7: | 76.0 | | |
| R8: | 40.5 | | |

Rf: 75.7
 Rg: 93.9



Test Conditions

Stabilization Time: 53M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 25.0./44%
 Sphere Temperature (°C): 25.7

REPORT NUMBER: SP1-1908-441-2-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 |

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CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength



#####

| 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 | 2397 | NR | 490 | 24908 | NR | 620 | 118784 | NR | 750 | 5037 | NR | 880 | 2677 | NR |
| 365 | 2084 | NR | 495 | 30998 | NR | 625 | 108951 | NR | 755 | 4413 | NR | 885 | 2940 | NR |
| 370 | 2143 | NR | 500 | 37103 | NR | 630 | 99573 | NR | 760 | 4189 | NR | 890 | 3116 | NR |
| 375 | 2413 | NR | 505 | 42987 | NR | 635 | 90444 | NR | 765 | 3677 | NR | 895 | 3345 | NR |
| 380 | 2172 | NR | 510 | 48702 | NR | 640 | 80749 | NR | 770 | 3366 | NR | 900 | 2312 | NR |
| 385 | 1997 | NR | 515 | 53741 | NR | 645 | 71664 | NR | 775 | 3211 | NR | 905 | 2829 | NR |
| 390 | 1830 | NR | 520 | 57283 | NR | 650 | 63936 | NR | 780 | 2682 | NR | 910 | 2783 | NR |
| 395 | 1861 | NR | 525 | 61876 | NR | 655 | 56611 | NR | 785 | 2804 | NR | 915 | 2662 | NR |
| 400 | 1717 | NR | 530 | 65398 | NR | 660 | 49763 | NR | 790 | 2581 | NR | 920 | 3047 | NR |
| 405 | 1761 | NR | 535 | 69597 | NR | 665 | 42891 | NR | 795 | 2711 | NR | 925 | 2256 | NR |
| 410 | 2680 | NR | 540 | 74214 | NR | 670 | 36939 | NR | 800 | 2609 | NR | 930 | 2976 | NR |
| 415 | 4374 | NR | 545 | 79911 | NR | 675 | 31946 | NR | 805 | 2581 | NR | 935 | 3503 | NR |
| 420 | 8071 | NR | 550 | 86153 | NR | 680 | 27385 | NR | 810 | 2404 | NR | 940 | 4226 | NR |
| 425 | 15169 | NR | 555 | 93952 | NR | 685 | 23504 | NR | 815 | 2556 | NR | 945 | 2930 | NR |
| 430 | 26038 | NR | 560 | 102904 | NR | 690 | 20210 | NR | 820 | 2742 | NR | 950 | 2115 | NR |
| 435 | 41316 | NR | 565 | 112009 | NR | 695 | 17459 | NR | 825 | 2014 | NR | 955 | 2634 | NR |
| 440 | 59674 | NR | 570 | 121662 | NR | 700 | 15207 | NR | 830 | 2488 | NR | 960 | 4200 | NR |
| 445 | 72751 | NR | 575 | 130476 | NR | 705 | 13322 | NR | 835 | 2625 | NR | 965 | 1982 | NR |
| 450 | 65091 | NR | 580 | 137926 | NR | 710 | 11676 | NR | 840 | 2754 | NR | 970 | 3613 | NR |
| 455 | 44894 | NR | 585 | 143406 | NR | 715 | 10626 | NR | 845 | 2708 | NR | 975 | 4034 | NR |
| 460 | 32712 | NR | 590 | 147039 | NR | 720 | 9416 | NR | 850 | 2608 | NR | 980 | 3922 | NR |
| 465 | 25296 | NR | 595 | 147365 | NR | 725 | 8333 | NR | 855 | 2605 | NR | 985 | 1909 | NR |
| 470 | 19318 | NR | 600 | 145800 | NR | 730 | 7134 | NR | 860 | 1765 | NR | 990 | 3617 | NR |
| 475 | 17265 | NR | 605 | 141363 | NR | 735 | 6437 | NR | 865 | 2581 | NR | 995 | 4767 | NR |
| 480 | 18260 | NR | 610 | 134199 | NR | 740 | 5834 | NR | 870 | 3016 | NR | 1000 | 2528 | NR |
| 485 | 20845 | NR | 615 | 127683 | NR | 745 | 5500 | NR | 875 | 3952 | NR | | | |

REPORT NUMBER: SP1-1908-441-2-R4

Scotopic Flux vs. Wavelength



Scotopic Lumens: 8494.8

S/P: 1.23

| 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 | 2397 | NR | 490 | 24908 | NR | 620 | 118784 | NR | 750 | 5037 | NR | 880 | 2677 | NR |
| 365 | 2084 | NR | 495 | 30998 | NR | 625 | 108951 | NR | 755 | 4413 | NR | 885 | 2940 | NR |
| 370 | 2143 | NR | 500 | 37103 | NR | 630 | 99573 | NR | 760 | 4189 | NR | 890 | 3116 | NR |
| 375 | 2413 | NR | 505 | 42987 | NR | 635 | 90444 | NR | 765 | 3677 | NR | 895 | 3345 | NR |
| 380 | 2172 | NR | 510 | 48702 | NR | 640 | 80749 | NR | 770 | 3366 | NR | 900 | 2312 | NR |
| 385 | 1997 | NR | 515 | 53741 | NR | 645 | 71664 | NR | 775 | 3211 | NR | 905 | 2829 | NR |
| 390 | 1830 | NR | 520 | 57283 | NR | 650 | 63936 | NR | 780 | 2682 | NR | 910 | 2783 | NR |
| 395 | 1861 | NR | 525 | 61876 | NR | 655 | 56611 | NR | 785 | 2804 | NR | 915 | 2662 | NR |
| 400 | 1717 | NR | 530 | 65398 | NR | 660 | 49763 | NR | 790 | 2581 | NR | 920 | 3047 | NR |
| 405 | 1761 | NR | 535 | 69597 | NR | 665 | 42891 | NR | 795 | 2711 | NR | 925 | 2256 | NR |
| 410 | 2680 | NR | 540 | 74214 | NR | 670 | 36939 | NR | 800 | 2609 | NR | 930 | 2976 | NR |
| 415 | 4374 | NR | 545 | 79911 | NR | 675 | 31946 | NR | 805 | 2581 | NR | 935 | 3503 | NR |
| 420 | 8071 | NR | 550 | 86153 | NR | 680 | 27385 | NR | 810 | 2404 | NR | 940 | 4226 | NR |
| 425 | 15169 | NR | 555 | 93952 | NR | 685 | 23504 | NR | 815 | 2556 | NR | 945 | 2930 | NR |
| 430 | 26038 | NR | 560 | 102904 | NR | 690 | 20210 | NR | 820 | 2742 | NR | 950 | 2115 | NR |
| 435 | 41316 | NR | 565 | 112009 | NR | 695 | 17459 | NR | 825 | 2014 | NR | 955 | 2634 | NR |
| 440 | 59674 | NR | 570 | 121662 | NR | 700 | 15207 | NR | 830 | 2488 | NR | 960 | 4200 | NR |
| 445 | 72751 | NR | 575 | 130476 | NR | 705 | 13322 | NR | 835 | 2625 | NR | 965 | 1982 | NR |
| 450 | 65091 | NR | 580 | 137926 | NR | 710 | 11676 | NR | 840 | 2754 | NR | 970 | 3613 | NR |
| 455 | 44894 | NR | 585 | 143406 | NR | 715 | 10626 | NR | 845 | 2708 | NR | 975 | 4034 | NR |
| 460 | 32712 | NR | 590 | 147039 | NR | 720 | 9416 | NR | 850 | 2608 | NR | 980 | 3922 | NR |
| 465 | 25296 | NR | 595 | 147365 | NR | 725 | 8333 | NR | 855 | 2605 | NR | 985 | 1909 | NR |
| 470 | 19318 | NR | 600 | 145800 | NR | 730 | 7134 | NR | 860 | 1765 | NR | 990 | 3617 | NR |
| 475 | 17265 | NR | 605 | 141363 | NR | 735 | 6437 | NR | 865 | 2581 | NR | 995 | 4767 | NR |
| 480 | 18260 | NR | 610 | 134199 | NR | 740 | 5834 | NR | 870 | 3016 | NR | 1000 | 2528 | NR |
| 485 | 20845 | NR | 615 | 127683 | NR | 745 | 5500 | NR | 875 | 3952 | NR | | | |

REPORT NUMBER: SP1-1908-441-2-R4

Melanopic Flux vs. Wavelength



Melanopic Lumens: 3101.5 M/P: 0.45

| 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 | 2397 | NR | 490 | 24908 | NR | 620 | 118784 | NR | 750 | 5037 | NR | 880 | 2677 | NR |
| 365 | 2084 | NR | 495 | 30998 | NR | 625 | 108951 | NR | 755 | 4413 | NR | 885 | 2940 | NR |
| 370 | 2143 | NR | 500 | 37103 | NR | 630 | 99573 | NR | 760 | 4189 | NR | 890 | 3116 | NR |
| 375 | 2413 | NR | 505 | 42987 | NR | 635 | 90444 | NR | 765 | 3677 | NR | 895 | 3345 | NR |
| 380 | 2172 | NR | 510 | 48702 | NR | 640 | 80749 | NR | 770 | 3366 | NR | 900 | 2312 | NR |
| 385 | 1997 | NR | 515 | 53741 | NR | 645 | 71664 | NR | 775 | 3211 | NR | 905 | 2829 | NR |
| 390 | 1830 | NR | 520 | 57283 | NR | 650 | 63936 | NR | 780 | 2682 | NR | 910 | 2783 | NR |
| 395 | 1861 | NR | 525 | 61876 | NR | 655 | 56611 | NR | 785 | 2804 | NR | 915 | 2662 | NR |
| 400 | 1717 | NR | 530 | 65398 | NR | 660 | 49763 | NR | 790 | 2581 | NR | 920 | 3047 | NR |
| 405 | 1761 | NR | 535 | 69597 | NR | 665 | 42891 | NR | 795 | 2711 | NR | 925 | 2256 | NR |
| 410 | 2680 | NR | 540 | 74214 | NR | 670 | 36939 | NR | 800 | 2609 | NR | 930 | 2976 | NR |
| 415 | 4374 | NR | 545 | 79911 | NR | 675 | 31946 | NR | 805 | 2581 | NR | 935 | 3503 | NR |
| 420 | 8071 | NR | 550 | 86153 | NR | 680 | 27385 | NR | 810 | 2404 | NR | 940 | 4226 | NR |
| 425 | 15169 | NR | 555 | 93952 | NR | 685 | 23504 | NR | 815 | 2556 | NR | 945 | 2930 | NR |
| 430 | 26038 | NR | 560 | 102904 | NR | 690 | 20210 | NR | 820 | 2742 | NR | 950 | 2115 | NR |
| 435 | 41316 | NR | 565 | 112009 | NR | 695 | 17459 | NR | 825 | 2014 | NR | 955 | 2634 | NR |
| 440 | 59674 | NR | 570 | 121662 | NR | 700 | 15207 | NR | 830 | 2488 | NR | 960 | 4200 | NR |
| 445 | 72751 | NR | 575 | 130476 | NR | 705 | 13322 | NR | 835 | 2625 | NR | 965 | 1982 | NR |
| 450 | 65091 | NR | 580 | 137926 | NR | 710 | 11676 | NR | 840 | 2754 | NR | 970 | 3613 | NR |
| 455 | 44894 | NR | 585 | 143406 | NR | 715 | 10626 | NR | 845 | 2708 | NR | 975 | 4034 | NR |
| 460 | 32712 | NR | 590 | 147039 | NR | 720 | 9416 | NR | 850 | 2608 | NR | 980 | 3922 | NR |
| 465 | 25296 | NR | 595 | 147365 | NR | 725 | 8333 | NR | 855 | 2605 | NR | 985 | 1909 | NR |
| 470 | 19318 | NR | 600 | 145800 | NR | 730 | 7134 | NR | 860 | 1765 | NR | 990 | 3617 | NR |
| 475 | 17265 | NR | 605 | 141363 | NR | 735 | 6437 | NR | 865 | 2581 | NR | 995 | 4767 | NR |
| 480 | 18260 | NR | 610 | 134199 | NR | 740 | 5834 | NR | 870 | 3016 | NR | 1000 | 2528 | NR |
| 485 | 20845 | NR | 615 | 127683 | NR | 745 | 5500 | NR | 875 | 3952 | NR | | | |

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TM-30-18

Summary

$R_f = 75.7$
 $R_g = 93.9$
 CIE $R_a = 71.8$
 $R_9 = -38.3$



Color Vector Graphics



REPORT NUMBER: SP1-1908-441-2-R4

TM-30-18

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

| | | | |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 67 | CES51 = 87 | CES76 = 63 |
| CES02 = 63 | CES27 = 88 | CES52 = 86 | CES77 = 80 |
| CES03 = 31 | CES28 = 87 | CES53 = 78 | CES78 = 67 |
| CES04 = 71 | CES29 = 66 | CES54 = 84 | CES79 = 87 |
| CES05 = 49 | CES30 = 73 | CES55 = 84 | CES80 = 86 |
| CES06 = 51 | CES31 = 70 | CES56 = 75 | CES81 = 71 |
| CES07 = 41 | CES32 = 65 | CES57 = 74 | CES82 = 94 |
| CES08 = 40 | CES33 = 73 | CES58 = 76 | CES83 = 90 |
| CES09 = 29 | CES34 = 79 | CES59 = 85 | CES84 = 89 |
| CES10 = 76 | CES35 = 89 | CES60 = 93 | CES85 = 77 |
| CES11 = 59 | CES36 = 97 | CES61 = 84 | CES86 = 61 |
| CES12 = 65 | CES37 = 87 | CES62 = 91 | CES87 = 78 |
| CES13 = 43 | CES38 = 81 | CES63 = 77 | CES88 = 77 |
| CES14 = 74 | CES39 = 95 | CES64 = 72 | CES89 = 67 |
| CES15 = 71 | CES40 = 92 | CES65 = 68 | CES90 = 76 |
| CES16 = 47 | CES41 = 88 | CES66 = 69 | CES91 = 89 |
| CES17 = 50 | CES42 = 89 | CES67 = 67 | CES92 = 58 |
| CES18 = 56 | CES43 = 79 | CES68 = 72 | CES93 = 74 |
| CES19 = 73 | CES44 = 99 | CES69 = 81 | CES94 = 49 |
| CES20 = 66 | CES45 = 85 | CES70 = 66 | CES95 = 68 |
| CES21 = 87 | CES46 = 80 | CES71 = 67 | CES96 = 76 |
| CES22 = 79 | CES47 = 82 | CES72 = 88 | CES97 = 82 |
| CES23 = 92 | CES48 = 69 | CES73 = 59 | CES98 = 75 |
| CES24 = 91 | CES49 = 80 | CES74 = 95 | CES99 = 62 |
| CES25 = 73 | CES50 = 87 | CES75 = 69 | |



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TM-30-18

Color Rendition by Hue-Angle Bin



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TM-30-18

Measure Comparisons



(END OF REPORT)