

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: P438928

Luminaire Tested: **IST-SA1F-760-U-SLR-HSS**

Issue Date: 12/10/2020

Test Information

Test Method: LM-79-08
Report Number: P438928
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-074-23)
Test Lab: INNOVATION CENTER
Issue Date: 12/10/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: IST-SA1F-760-U-SLR-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 5700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5841 lumens
Efficiency: N/A
Efficacy: 88.5 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

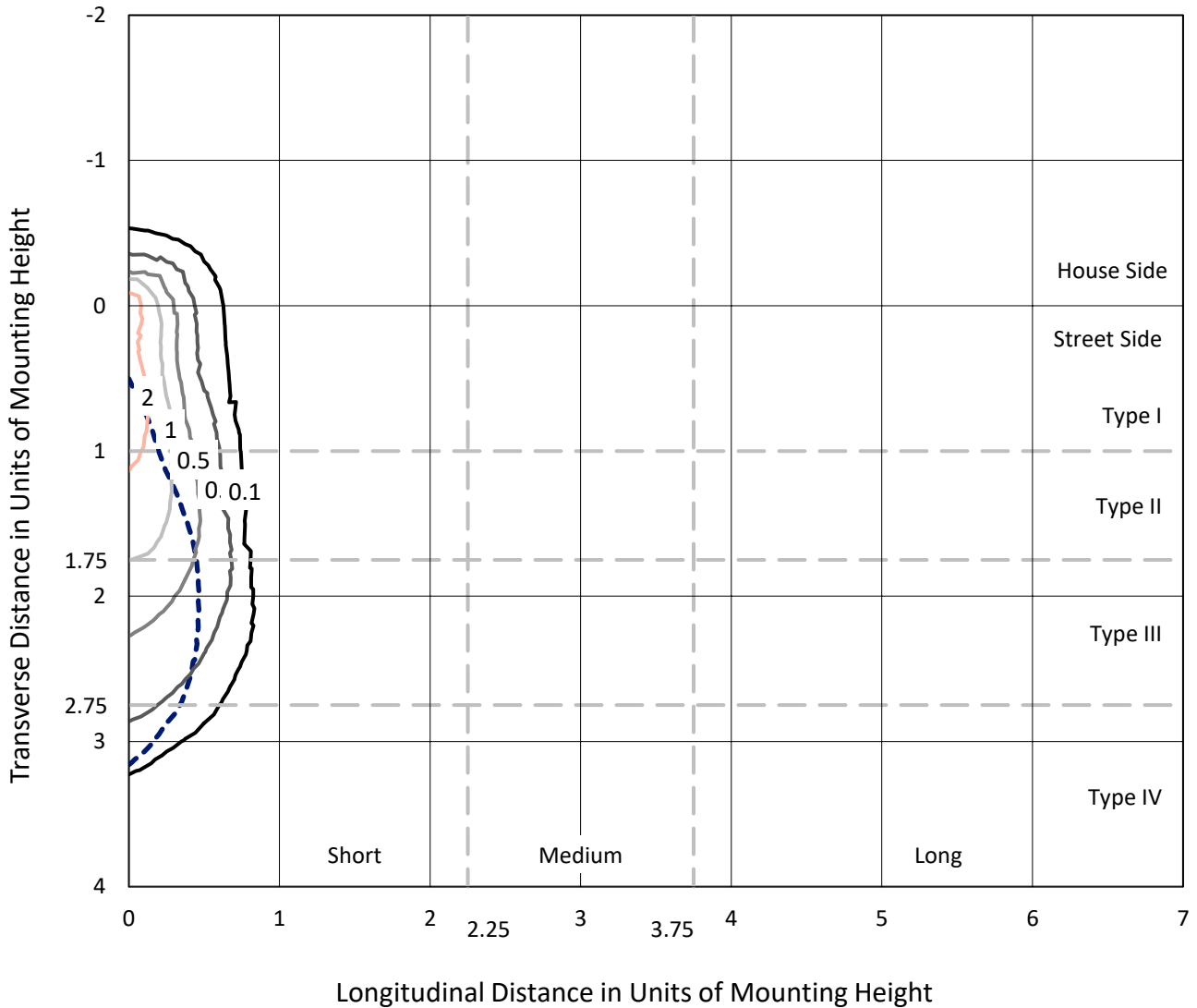
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P438928
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Iso-Footcandle Lines of Horizontal Illumination

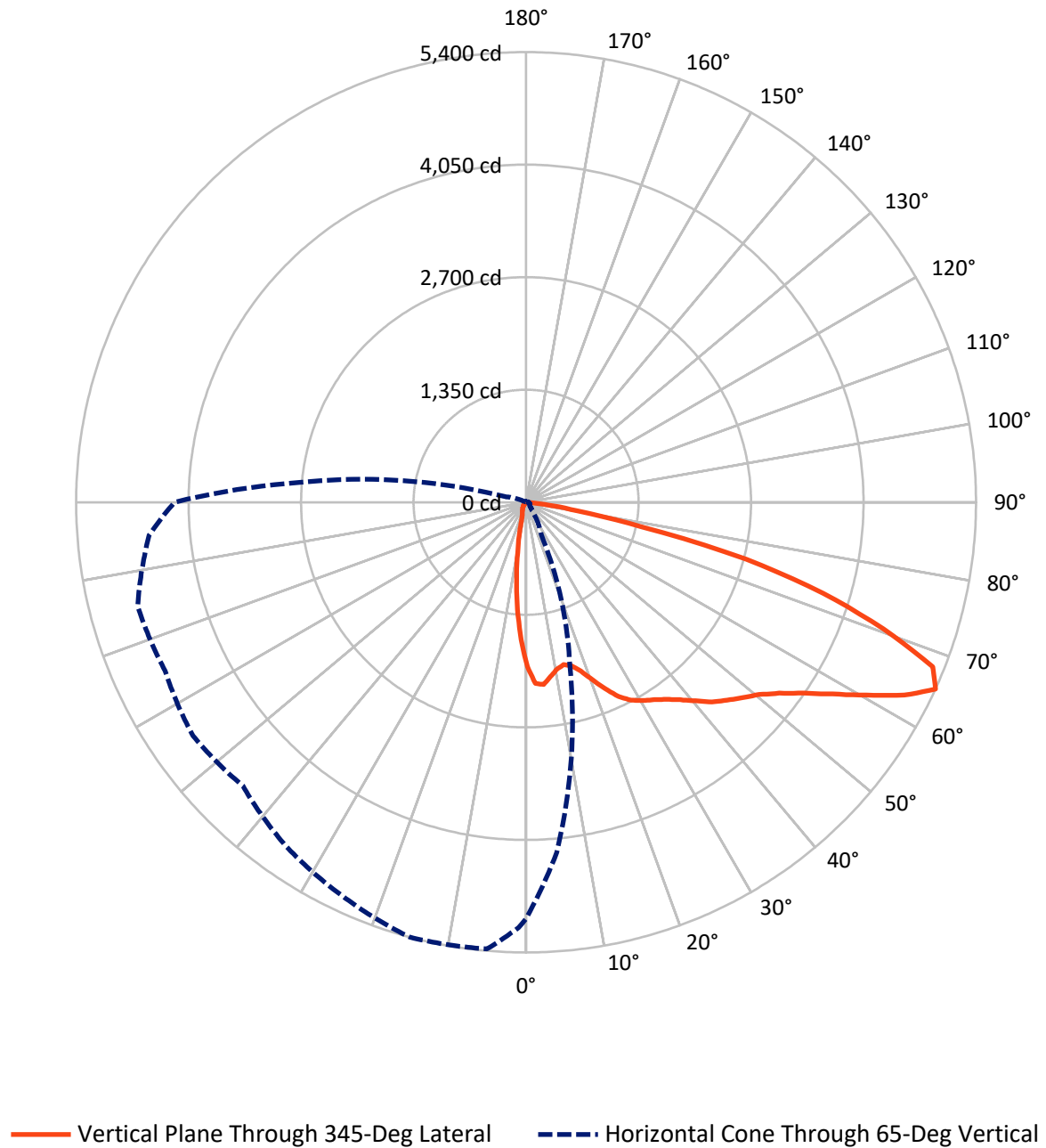
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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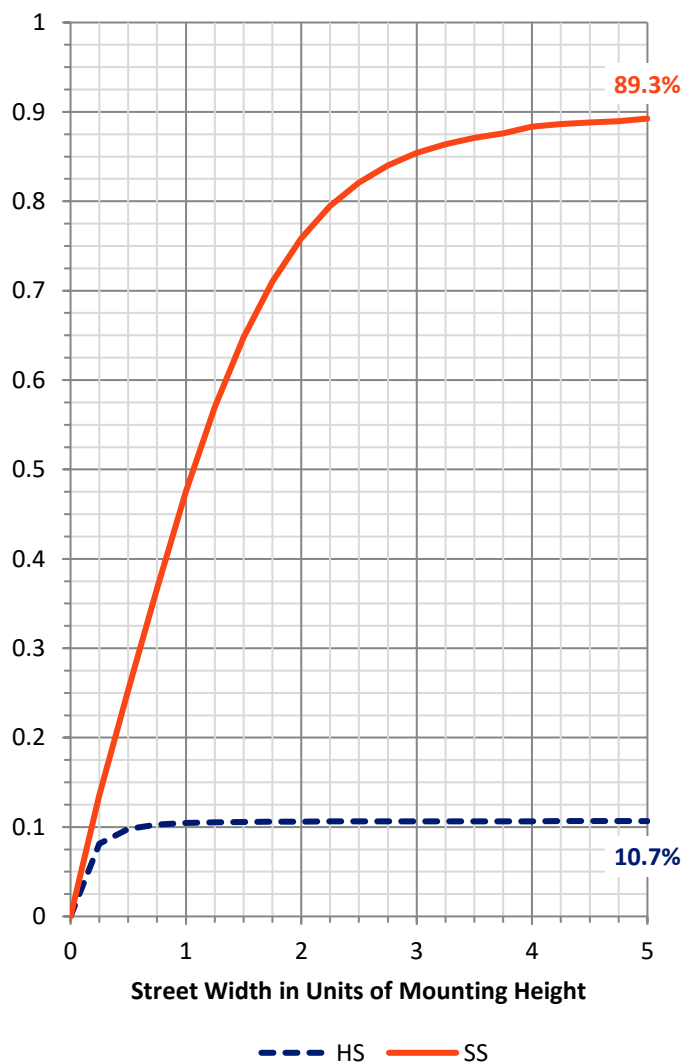
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 629.7 | 0.0 | 629.7 |
| | % Fixture | 10.8 | 0.0 | 10.8 |
| Street Side | Lumens | 5211.3 | 0.0 | 5211.3 |
| | % Fixture | 89.2 | 0.0 | 89.2 |
| Total | Lumens | 5841.0 | 0.0 | 5841.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 146.3 | 2.5 |
| 10°-20° | 284.8 | 4.9 |
| 20°-30° | 415.4 | 7.1 |
| 30°-40° | 617.4 | 10.6 |
| 40°-50° | 905.1 | 15.5 |
| 50°-60° | 1302.4 | 22.3 |
| 60°-70° | 1461.1 | 25.0 |
| 70°-80° | 641.0 | 11.0 |
| 80°-90° | 67.4 | 1.2 |
| 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° | 5841.0 | 100.0 |
| 0°-180° | 5841.0 | 100.0 |

Coefficient of Utilization



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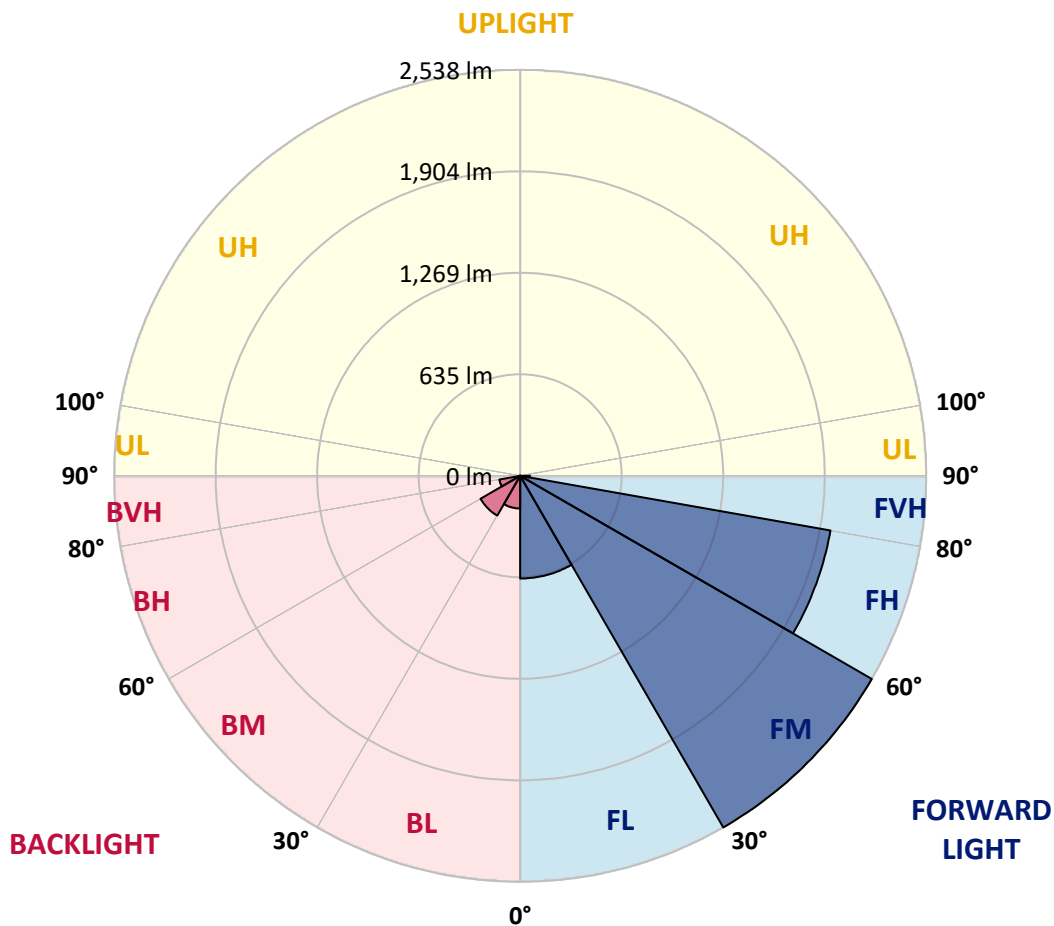
CATALOG NUMBER: IST-SA1F-760-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 642.2 | 11.0 | | | |
| FM (30°-60°) | 2538.3 | 43.5 | | | |
| FH (60°-80°) | 1969.8 | 33.7 | | | G2/5000 |
| FVH (80°-90°) | 60.9 | 1.0 | | | G1/100 |
| BL (0°-30°) | 204.3 | 3.5 | B1/500 | | |
| BM (30°-60°) | 286.6 | 4.9 | B1/1000 | | |
| BH (60°-80°) | 132.3 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 6.5 | 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° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 |
| 2.5° | 2086.1 | 2086.1 | 2055.3 | 1982.4 | 1915.1 | 1833.8 | 1788.9 | 1746.9 | 1702.0 | 1671.2 | 1623.5 |
| 5° | 1988.0 | 1968.4 | 1923.5 | 1788.9 | 1645.9 | 1550.6 | 1477.7 | 1348.7 | 1287.0 | 1242.2 | 1222.5 |
| 7.5° | 1825.4 | 1814.2 | 1741.3 | 1584.2 | 1413.2 | 1259.0 | 1160.8 | 1054.3 | 970.2 | 936.5 | 877.6 |
| 10° | 1713.2 | 1702.0 | 1609.5 | 1396.4 | 1197.3 | 1085.1 | 1006.6 | 930.9 | 849.6 | 768.3 | 706.6 |
| 12.5° | 1657.1 | 1634.7 | 1545.0 | 1303.8 | 1132.8 | 1023.4 | 933.7 | 841.2 | 740.2 | 650.5 | 577.6 |
| 15° | 1671.2 | 1634.7 | 1533.8 | 1287.0 | 1085.1 | 950.5 | 835.6 | 701.0 | 600.0 | 493.5 | 426.2 |
| 17.5° | 1769.3 | 1730.0 | 1606.7 | 1301.0 | 1023.4 | 852.4 | 701.0 | 549.6 | 415.0 | 316.8 | 283.2 |
| 20° | 1951.6 | 1909.5 | 1741.3 | 1331.9 | 984.2 | 754.3 | 541.2 | 378.5 | 274.8 | 229.9 | 210.3 |
| 22.5° | 2184.3 | 2128.2 | 1929.1 | 1382.3 | 939.3 | 656.1 | 409.4 | 269.2 | 210.3 | 182.3 | 168.2 |
| 25° | 2428.2 | 2372.1 | 2150.6 | 1458.1 | 911.3 | 572.0 | 316.8 | 210.3 | 171.0 | 154.2 | 145.8 |
| 27.5° | 2649.7 | 2579.6 | 2349.7 | 1570.2 | 877.6 | 496.3 | 263.6 | 182.3 | 154.2 | 134.6 | 129.0 |
| 30° | 2851.6 | 2770.3 | 2548.8 | 1665.5 | 830.0 | 429.0 | 227.1 | 168.2 | 143.0 | 126.2 | 117.8 |
| 32.5° | 3022.7 | 2958.2 | 2711.4 | 1732.8 | 790.7 | 392.6 | 201.9 | 148.6 | 123.4 | 109.4 | 103.7 |
| 35° | 3227.4 | 3165.7 | 2868.4 | 1788.9 | 765.5 | 375.7 | 185.1 | 140.2 | 115.0 | 100.9 | 89.7 |
| 37.5° | 3504.9 | 3415.2 | 3042.3 | 1839.4 | 737.4 | 361.7 | 171.0 | 131.8 | 109.4 | 92.5 | 84.1 |
| 40° | 3754.5 | 3656.4 | 3244.2 | 1875.8 | 723.4 | 350.5 | 168.2 | 126.2 | 103.7 | 86.9 | 78.5 |
| 42.5° | 3976.0 | 3886.3 | 3406.8 | 1889.9 | 712.2 | 330.9 | 165.4 | 123.4 | 103.7 | 84.1 | 72.9 |
| 45° | 4116.2 | 4034.9 | 3600.3 | 1926.3 | 712.2 | 316.8 | 154.2 | 123.4 | 100.9 | 81.3 | 70.1 |
| 47.5° | 4245.2 | 4166.7 | 3768.5 | 1965.6 | 701.0 | 305.6 | 140.2 | 134.6 | 100.9 | 78.5 | 64.5 |
| 50° | 4433.1 | 4371.4 | 3981.6 | 2083.3 | 681.4 | 288.8 | 126.2 | 131.8 | 103.7 | 75.7 | 64.5 |
| 52.5° | 4671.4 | 4643.3 | 4295.7 | 2243.2 | 653.3 | 258.0 | 112.2 | 123.4 | 103.7 | 72.9 | 61.7 |
| 55° | 4935.0 | 4923.7 | 4623.7 | 2389.0 | 619.7 | 221.5 | 103.7 | 112.2 | 100.9 | 67.3 | 56.1 |
| 57.5° | 5094.8 | 5094.8 | 4836.8 | 2470.3 | 591.6 | 176.6 | 92.5 | 92.5 | 98.1 | 61.7 | 50.5 |
| 60° | 5153.7 | 5092.0 | 4811.6 | 2461.9 | 544.0 | 145.8 | 84.1 | 75.7 | 103.7 | 53.3 | 44.9 |
| 62.5° | 5148.1 | 5013.5 | 4576.1 | 2327.3 | 479.5 | 134.6 | 72.9 | 64.5 | 75.7 | 47.7 | 39.3 |
| 65° | 4996.6 | 4834.0 | 4217.1 | 2027.3 | 431.8 | 134.6 | 61.7 | 53.3 | 50.5 | 42.1 | 30.8 |
| 67.5° | 4578.9 | 4480.7 | 3692.8 | 1718.8 | 398.2 | 134.6 | 53.3 | 44.9 | 39.3 | 33.6 | 28.0 |
| 70° | 3889.1 | 3760.1 | 2975.0 | 1326.3 | 372.9 | 134.6 | 44.9 | 39.3 | 36.5 | 28.0 | 22.4 |
| 72.5° | 2534.8 | 2461.9 | 1819.8 | 911.3 | 305.6 | 131.8 | 39.3 | 36.5 | 33.6 | 25.2 | 19.6 |
| 75° | 1379.5 | 1275.8 | 1001.0 | 325.3 | 218.7 | 95.3 | 33.6 | 30.8 | 25.2 | 22.4 | 16.8 |
| 77.5° | 597.2 | 574.8 | 510.3 | 86.9 | 64.5 | 28.0 | 19.6 | 19.6 | 16.8 | 16.8 | 11.2 |
| 80° | 78.5 | 58.9 | 67.3 | 25.2 | 22.4 | 14.0 | 11.2 | 8.4 | 8.4 | 8.4 | 5.6 |
| 82.5° | 2.8 | 2.8 | 0.0 | 2.8 | 8.4 | 5.6 | 0.0 | 0.0 | 2.8 | 2.8 | 2.8 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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° | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 |
| 2.5° | 1645.9 | 1612.3 | 1587.0 | 1587.0 | 1620.7 | 1601.1 | 1623.5 | 1609.5 | 1648.7 | 1668.4 | 1662.7 |
| 5° | 1180.5 | 1194.5 | 1180.5 | 1202.9 | 1239.3 | 1259.0 | 1270.2 | 1298.2 | 1295.4 | 1306.6 | 1326.3 |
| 7.5° | 855.2 | 855.2 | 860.8 | 855.2 | 888.9 | 925.3 | 944.9 | 936.5 | 930.9 | 919.7 | 939.3 |
| 10° | 687.0 | 656.1 | 619.7 | 619.7 | 625.3 | 644.9 | 647.7 | 633.7 | 614.1 | 577.6 | 588.8 |
| 12.5° | 538.4 | 515.9 | 493.5 | 445.8 | 443.0 | 431.8 | 429.0 | 389.7 | 358.9 | 347.7 | 347.7 |
| 15° | 395.4 | 381.3 | 356.1 | 333.7 | 311.2 | 300.0 | 280.4 | 232.7 | 201.9 | 199.1 | 201.9 |
| 17.5° | 263.6 | 255.2 | 246.7 | 246.7 | 238.3 | 218.7 | 199.1 | 168.2 | 154.2 | 148.6 | 151.4 |
| 20° | 196.3 | 193.5 | 185.1 | 187.9 | 187.9 | 171.0 | 151.4 | 137.4 | 131.8 | 131.8 | 134.6 |
| 22.5° | 162.6 | 159.8 | 151.4 | 151.4 | 151.4 | 143.0 | 129.0 | 120.6 | 117.8 | 117.8 | 117.8 |
| 25° | 140.2 | 137.4 | 131.8 | 129.0 | 129.0 | 123.4 | 112.2 | 106.6 | 103.7 | 103.7 | 103.7 |
| 27.5° | 126.2 | 123.4 | 117.8 | 112.2 | 112.2 | 106.6 | 100.9 | 92.5 | 92.5 | 92.5 | 92.5 |
| 30° | 112.2 | 109.4 | 106.6 | 100.9 | 98.1 | 92.5 | 86.9 | 84.1 | 81.3 | 81.3 | 81.3 |
| 32.5° | 100.9 | 98.1 | 95.3 | 92.5 | 86.9 | 81.3 | 75.7 | 72.9 | 70.1 | 70.1 | 70.1 |
| 35° | 86.9 | 81.3 | 78.5 | 81.3 | 78.5 | 70.1 | 67.3 | 61.7 | 58.9 | 58.9 | 58.9 |
| 37.5° | 78.5 | 72.9 | 67.3 | 64.5 | 64.5 | 64.5 | 58.9 | 53.3 | 50.5 | 47.7 | 50.5 |
| 40° | 72.9 | 67.3 | 61.7 | 56.1 | 53.3 | 56.1 | 50.5 | 44.9 | 42.1 | 39.3 | 42.1 |
| 42.5° | 67.3 | 61.7 | 53.3 | 47.7 | 42.1 | 47.7 | 42.1 | 36.5 | 33.6 | 30.8 | 33.6 |
| 45° | 64.5 | 58.9 | 50.5 | 42.1 | 36.5 | 36.5 | 36.5 | 30.8 | 25.2 | 25.2 | 25.2 |
| 47.5° | 61.7 | 56.1 | 44.9 | 36.5 | 30.8 | 28.0 | 28.0 | 22.4 | 19.6 | 16.8 | 16.8 |
| 50° | 58.9 | 53.3 | 42.1 | 30.8 | 25.2 | 22.4 | 22.4 | 16.8 | 14.0 | 14.0 | 14.0 |
| 52.5° | 56.1 | 50.5 | 39.3 | 28.0 | 22.4 | 16.8 | 14.0 | 11.2 | 11.2 | 8.4 | 8.4 |
| 55° | 50.5 | 44.9 | 33.6 | 25.2 | 19.6 | 14.0 | 11.2 | 8.4 | 8.4 | 5.6 | 8.4 |
| 57.5° | 47.7 | 42.1 | 30.8 | 22.4 | 16.8 | 11.2 | 8.4 | 5.6 | 5.6 | 5.6 | 5.6 |
| 60° | 42.1 | 36.5 | 25.2 | 16.8 | 11.2 | 8.4 | 5.6 | 5.6 | 5.6 | 2.8 | 2.8 |
| 62.5° | 33.6 | 30.8 | 22.4 | 14.0 | 8.4 | 5.6 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 65° | 30.8 | 28.0 | 19.6 | 11.2 | 5.6 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 67.5° | 25.2 | 22.4 | 14.0 | 8.4 | 2.8 | 2.8 | 0.0 | 2.8 | 2.8 | 0.0 | 0.0 |
| 70° | 19.6 | 19.6 | 11.2 | 5.6 | 2.8 | 0.0 | 0.0 | 2.8 | 2.8 | 0.0 | 0.0 |
| 72.5° | 16.8 | 16.8 | 11.2 | 2.8 | 0.0 | 0.0 | 0.0 | 2.8 | 2.8 | 2.8 | 0.0 |
| 75° | 14.0 | 14.0 | 11.2 | 5.6 | 0.0 | 0.0 | 0.0 | 2.8 | 2.8 | 2.8 | 2.8 |
| 77.5° | 11.2 | 8.4 | 5.6 | 2.8 | 0.0 | 0.0 | 0.0 | 2.8 | 2.8 | 2.8 | 2.8 |
| 80° | 5.6 | 5.6 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 2.8 | 2.8 | 2.8 | 2.8 |
| 82.5° | 2.8 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.8 | 5.6 | 5.6 | 2.8 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.8 | 5.6 | 5.6 | 5.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.8 | 5.6 | 5.6 | 5.6 | 5.6 |
| 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° | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 |
| 2.5° | 1676.8 | 1721.6 | 1772.1 | 1802.9 | 1870.2 | 1929.1 | 1999.2 | 2060.9 | 2133.8 | 2173.1 | 2187.1 |
| 5° | 1345.9 | 1371.1 | 1435.6 | 1519.7 | 1595.5 | 1702.0 | 1825.4 | 1962.8 | 2111.4 | 2181.5 | 2231.9 |
| 7.5° | 928.1 | 950.5 | 1043.1 | 1121.6 | 1247.8 | 1385.2 | 1553.4 | 1741.3 | 1934.7 | 2032.9 | 2122.6 |
| 10° | 605.7 | 636.5 | 715.0 | 824.4 | 984.2 | 1152.4 | 1323.5 | 1519.7 | 1744.1 | 1859.0 | 1979.6 |
| 12.5° | 350.5 | 386.9 | 482.3 | 625.3 | 782.3 | 961.8 | 1138.4 | 1354.3 | 1603.9 | 1730.0 | 1853.4 |
| 15° | 201.9 | 215.9 | 272.0 | 398.2 | 574.8 | 793.5 | 1001.0 | 1233.7 | 1525.4 | 1665.5 | 1811.4 |
| 17.5° | 151.4 | 159.8 | 176.6 | 229.9 | 367.3 | 608.5 | 900.1 | 1197.3 | 1533.8 | 1721.6 | 1850.6 |
| 20° | 134.6 | 140.2 | 148.6 | 168.2 | 232.7 | 431.8 | 776.7 | 1172.1 | 1615.1 | 1856.2 | 2013.2 |
| 22.5° | 120.6 | 126.2 | 134.6 | 148.6 | 176.6 | 291.6 | 647.7 | 1169.2 | 1749.7 | 2055.3 | 2231.9 |
| 25° | 106.6 | 112.2 | 120.6 | 134.6 | 157.0 | 210.3 | 501.9 | 1160.8 | 1917.9 | 2274.0 | 2495.5 |
| 27.5° | 92.5 | 98.1 | 106.6 | 120.6 | 140.2 | 173.8 | 381.3 | 1135.6 | 2119.8 | 2509.5 | 2745.1 |
| 30° | 81.3 | 86.9 | 95.3 | 106.6 | 126.2 | 151.4 | 291.6 | 1093.5 | 2293.6 | 2719.8 | 2913.3 |
| 32.5° | 70.1 | 75.7 | 84.1 | 95.3 | 112.2 | 131.8 | 235.5 | 1003.8 | 2428.2 | 2885.3 | 3050.7 |
| 35° | 58.9 | 64.5 | 72.9 | 84.1 | 98.1 | 112.2 | 193.5 | 858.0 | 2565.6 | 3056.3 | 3216.1 |
| 37.5° | 50.5 | 56.1 | 61.7 | 72.9 | 86.9 | 100.9 | 159.8 | 765.5 | 2666.6 | 3269.4 | 3426.4 |
| 40° | 42.1 | 47.7 | 56.1 | 64.5 | 75.7 | 95.3 | 129.0 | 642.1 | 2767.5 | 3474.1 | 3619.9 |
| 42.5° | 33.6 | 39.3 | 47.7 | 58.9 | 70.1 | 84.1 | 103.7 | 529.9 | 2868.4 | 3659.2 | 3796.6 |
| 45° | 25.2 | 30.8 | 39.3 | 53.3 | 70.1 | 72.9 | 84.1 | 451.4 | 2893.7 | 3833.0 | 3950.8 |
| 47.5° | 19.6 | 22.4 | 30.8 | 44.9 | 67.3 | 64.5 | 70.1 | 392.6 | 2941.3 | 3970.4 | 4102.2 |
| 50° | 14.0 | 16.8 | 25.2 | 42.1 | 58.9 | 53.3 | 61.7 | 370.1 | 3008.6 | 4077.0 | 4147.0 |
| 52.5° | 11.2 | 14.0 | 19.6 | 36.5 | 47.7 | 47.7 | 56.1 | 392.6 | 3095.6 | 4203.1 | 4262.0 |
| 55° | 8.4 | 11.2 | 16.8 | 25.2 | 36.5 | 42.1 | 53.3 | 423.4 | 3263.8 | 4424.6 | 4413.4 |
| 57.5° | 5.6 | 8.4 | 14.0 | 19.6 | 28.0 | 36.5 | 50.5 | 471.1 | 3434.8 | 4674.2 | 4685.4 |
| 60° | 5.6 | 8.4 | 11.2 | 16.8 | 25.2 | 30.8 | 44.9 | 476.7 | 3406.8 | 4710.6 | 4876.1 |
| 62.5° | 2.8 | 5.6 | 11.2 | 14.0 | 19.6 | 25.2 | 39.3 | 401.0 | 3137.6 | 4534.0 | 4775.1 |
| 65° | 2.8 | 5.6 | 8.4 | 14.0 | 16.8 | 22.4 | 30.8 | 255.2 | 2731.1 | 4220.0 | 4539.6 |
| 67.5° | 2.8 | 5.6 | 8.4 | 11.2 | 14.0 | 19.6 | 25.2 | 131.8 | 2316.1 | 3894.7 | 4203.1 |
| 70° | 2.8 | 5.6 | 8.4 | 11.2 | 14.0 | 16.8 | 22.4 | 64.5 | 1755.3 | 3283.4 | 3681.6 |
| 72.5° | 2.8 | 5.6 | 8.4 | 11.2 | 11.2 | 14.0 | 19.6 | 44.9 | 1127.2 | 2467.5 | 2851.6 |
| 75° | 2.8 | 5.6 | 5.6 | 8.4 | 11.2 | 14.0 | 16.8 | 30.8 | 729.0 | 1659.9 | 2161.8 |
| 77.5° | 2.8 | 5.6 | 5.6 | 8.4 | 11.2 | 14.0 | 19.6 | 28.0 | 532.8 | 1138.4 | 1494.5 |
| 80° | 2.8 | 5.6 | 5.6 | 8.4 | 11.2 | 11.2 | 14.0 | 19.6 | 286.0 | 754.3 | 950.5 |
| 82.5° | 5.6 | 5.6 | 8.4 | 8.4 | 8.4 | 11.2 | 14.0 | 14.0 | 148.6 | 482.3 | 642.1 |
| 85° | 5.6 | 5.6 | 8.4 | 8.4 | 11.2 | 11.2 | 11.2 | 14.0 | 64.5 | 201.9 | 319.7 |
| 87.5° | 5.6 | 8.4 | 8.4 | 8.4 | 11.2 | 11.2 | 11.2 | 11.2 | 8.4 | 11.2 | 11.2 |
| 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: P438928

CATALOG NUMBER: IST-SA1F-760-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 |
| 2.5° | 2229.1 | 2265.6 | 2282.4 | 2268.4 | 2257.2 | 2223.5 | 2175.9 | 2128.2 | 2088.9 | 2086.1 |
| 5° | 2346.9 | 2425.4 | 2487.1 | 2456.3 | 2414.2 | 2316.1 | 2195.5 | 2060.9 | 2010.4 | 1988.0 |
| 7.5° | 2321.7 | 2492.7 | 2596.5 | 2568.4 | 2484.3 | 2299.2 | 2111.4 | 1934.7 | 1853.4 | 1825.4 |
| 10° | 2206.7 | 2436.6 | 2574.0 | 2565.6 | 2487.1 | 2268.4 | 2035.7 | 1822.6 | 1735.6 | 1713.2 |
| 12.5° | 2100.2 | 2327.3 | 2459.1 | 2464.7 | 2436.6 | 2234.8 | 1999.2 | 1772.1 | 1668.4 | 1657.1 |
| 15° | 2044.1 | 2237.6 | 2316.1 | 2332.9 | 2344.1 | 2231.9 | 2032.9 | 1805.7 | 1696.4 | 1671.2 |
| 17.5° | 2055.3 | 2147.8 | 2167.5 | 2153.4 | 2229.1 | 2234.8 | 2128.2 | 1923.5 | 1800.1 | 1769.3 |
| 20° | 2122.6 | 2088.9 | 2024.5 | 2038.5 | 2122.6 | 2246.0 | 2271.2 | 2131.0 | 1990.8 | 1951.6 |
| 22.5° | 2251.6 | 2086.1 | 1957.2 | 1945.9 | 2055.3 | 2265.6 | 2425.4 | 2352.5 | 2206.7 | 2184.3 |
| 25° | 2442.2 | 2128.2 | 1929.1 | 1906.7 | 2002.0 | 2285.2 | 2582.4 | 2585.2 | 2470.3 | 2428.2 |
| 27.5° | 2627.3 | 2195.5 | 1926.3 | 1903.9 | 2002.0 | 2310.5 | 2689.0 | 2815.2 | 2694.6 | 2649.7 |
| 30° | 2733.9 | 2274.0 | 1971.2 | 1929.1 | 2038.5 | 2332.9 | 2759.1 | 2997.4 | 2890.9 | 2851.6 |
| 32.5° | 2832.0 | 2358.1 | 2018.8 | 1968.4 | 2108.6 | 2394.6 | 2823.6 | 3162.9 | 3070.3 | 3022.7 |
| 35° | 2913.3 | 2456.3 | 2108.6 | 2030.1 | 2212.3 | 2484.3 | 2902.1 | 3345.1 | 3286.2 | 3227.4 |
| 37.5° | 2991.8 | 2554.4 | 2234.8 | 2189.9 | 2386.2 | 2613.3 | 3005.8 | 3535.8 | 3563.8 | 3504.9 |
| 40° | 3104.0 | 2666.6 | 2450.7 | 2414.2 | 2641.3 | 2809.6 | 3132.0 | 3726.5 | 3819.0 | 3754.5 |
| 42.5° | 3210.5 | 2809.6 | 2669.4 | 2703.0 | 2949.8 | 3036.7 | 3275.0 | 3900.3 | 4004.0 | 3976.0 |
| 45° | 3308.7 | 2986.2 | 2986.2 | 3067.5 | 3283.4 | 3286.2 | 3384.4 | 4020.9 | 4130.2 | 4116.2 |
| 47.5° | 3437.6 | 3204.9 | 3314.3 | 3538.6 | 3653.6 | 3502.1 | 3502.1 | 4135.8 | 4284.4 | 4245.2 |
| 50° | 3563.8 | 3496.5 | 3748.9 | 3953.6 | 4054.5 | 3762.9 | 3622.7 | 4290.1 | 4466.7 | 4433.1 |
| 52.5° | 3701.2 | 3779.7 | 4155.5 | 4357.3 | 4416.2 | 4060.1 | 3805.0 | 4444.3 | 4671.4 | 4671.4 |
| 55° | 3922.7 | 4020.9 | 4584.5 | 4752.7 | 4836.8 | 4306.9 | 4037.7 | 4663.0 | 4920.9 | 4935.0 |
| 57.5° | 4149.9 | 4253.6 | 4825.6 | 5038.7 | 5148.1 | 4671.4 | 4337.7 | 4954.6 | 5097.6 | 5094.8 |
| 60° | 4388.2 | 4497.5 | 5013.5 | 5223.8 | 5383.6 | 5044.3 | 4693.8 | 5221.0 | 5181.7 | 5153.7 |
| 62.5° | 4682.6 | 4682.6 | 5083.6 | 5181.7 | 5375.2 | 5279.8 | 5094.8 | 5372.4 | 5212.6 | 5148.1 |
| 65° | 4825.6 | 4780.7 | 4881.7 | 4808.8 | 5030.3 | 5212.6 | 5400.4 | 5378.0 | 5103.2 | 4996.6 |
| 67.5° | 4749.9 | 4477.9 | 4304.1 | 4194.7 | 4242.4 | 4556.4 | 5265.8 | 5111.6 | 4660.2 | 4578.9 |
| 70° | 4231.2 | 3580.7 | 3418.0 | 3244.2 | 3151.6 | 3476.9 | 4550.8 | 4514.4 | 3964.8 | 3889.1 |
| 72.5° | 3448.9 | 2585.2 | 2192.7 | 2369.3 | 2279.6 | 2646.9 | 3729.3 | 3185.3 | 2602.1 | 2534.8 |
| 75° | 2862.8 | 1923.5 | 1430.0 | 1432.8 | 1446.8 | 1738.5 | 2725.4 | 1892.7 | 1430.0 | 1379.5 |
| 77.5° | 2072.1 | 1354.3 | 1155.2 | 1034.7 | 1045.9 | 1110.4 | 1418.8 | 807.5 | 658.9 | 597.2 |
| 80° | 1264.6 | 838.4 | 933.7 | 830.0 | 801.9 | 616.9 | 611.3 | 117.8 | 78.5 | 78.5 |
| 82.5° | 689.8 | 532.8 | 496.3 | 179.5 | 277.6 | 336.5 | 277.6 | 5.6 | 2.8 | 2.8 |
| 85° | 350.5 | 213.1 | 100.9 | 30.8 | 36.5 | 30.8 | 5.6 | 0.0 | 0.0 | 0.0 |
| 87.5° | 11.2 | 8.4 | 8.4 | 5.6 | 5.6 | 2.8 | 2.8 | 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: SP1-1908-441-9-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-760-U-5WQ**
 Description: McGRAW EDISON ROADWAY AND AREA LUMINAIRE

THIS IS A REVISION OF SP1-1908-441-4-R3. TO UPDATE THE CATALOG INFORMATION.TESTED IN SITU. ROADWAY AND AREA LUMINAIRE. (1) 70 CRI, 5000K, 1050MA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS.

Spectral Parameters

| | | | | | |
|---------------------------|--------|-----------|------|------|-------|
| CCT (K): | 5474 | CRI (Ra): | 71.7 | R9: | -27.1 |
| CIE u': | 0.2052 | R1: | 70.6 | R10: | 40.8 |
| CIE v': | 0.4804 | R2: | 74.6 | R11: | 74.6 |
| Duv: | 0.0025 | R3: | 78.3 | R12: | 50.4 |
| CIE x: | 0.3330 | R4: | 73.8 | R13: | 70.0 |
| CIE y: | 0.3466 | R5: | 72.4 | R14: | 87.8 |
| CIE z: | 0.3204 | R6: | 67.5 | | |
| Peak Wavelength (nm): | 442 | R7: | 77.5 | | |
| Dominant Wavelength (nm): | 554 | R8: | 58.9 | | |
| Purity: | 4.1 | | | | |
| Rf: | 72.1 | | | | |
| Rg: | 97.2 | | | | |



Test Conditions

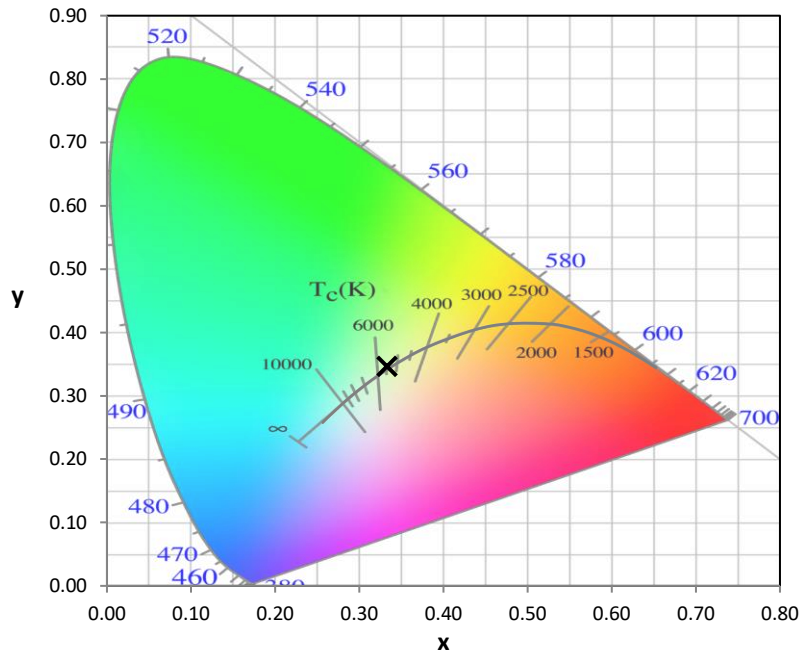
Stabilization Time: 240M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 24.6/31%
 Sphere Temperature (°C): 25.9

REPORT NUMBER: SP1-1908-441-9-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 5700K 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 | 3540 | NR | 490 | 33363 | NR | 620 | 80193 | NR | 750 | 4663 | NR | 880 | 4678 | NR |
| 365 | 2862 | NR | 495 | 44177 | NR | 625 | 73091 | NR | 755 | 4147 | NR | 885 | 4128 | NR |
| 370 | 2865 | NR | 500 | 57019 | NR | 630 | 66269 | NR | 760 | 4040 | NR | 890 | 4504 | NR |
| 375 | 3254 | NR | 505 | 70030 | NR | 635 | 60012 | NR | 765 | 3474 | NR | 895 | 4371 | NR |
| 380 | 3076 | NR | 510 | 81972 | NR | 640 | 53914 | NR | 770 | 3469 | NR | 900 | 4082 | NR |
| 385 | 2904 | NR | 515 | 92590 | NR | 645 | 48385 | NR | 775 | 3181 | NR | 905 | 2982 | NR |
| 390 | 2689 | NR | 520 | 100305 | NR | 650 | 43219 | NR | 780 | 2969 | NR | 910 | 4351 | NR |
| 395 | 2619 | NR | 525 | 107452 | NR | 655 | 38562 | NR | 785 | 3132 | NR | 915 | 3365 | NR |
| 400 | 2679 | NR | 530 | 111373 | NR | 660 | 34110 | NR | 790 | 2507 | NR | 920 | 3430 | NR |
| 405 | 3515 | NR | 535 | 114505 | NR | 665 | 30085 | NR | 795 | 2968 | NR | 925 | 4264 | NR |
| 410 | 6934 | NR | 540 | 116408 | NR | 670 | 26205 | NR | 800 | 2758 | NR | 930 | 4095 | NR |
| 415 | 14943 | NR | 545 | 118700 | NR | 675 | 22906 | NR | 805 | 2872 | NR | 935 | 5048 | NR |
| 420 | 31939 | NR | 550 | 119209 | NR | 680 | 20058 | NR | 810 | 3094 | NR | 940 | 4074 | NR |
| 425 | 64701 | NR | 555 | 120742 | NR | 685 | 17413 | NR | 815 | 3222 | NR | 945 | 4949 | NR |
| 430 | 110939 | NR | 560 | 121594 | NR | 690 | 15447 | NR | 820 | 3238 | NR | 950 | 4387 | NR |
| 435 | 164597 | NR | 565 | 121913 | NR | 695 | 13398 | NR | 825 | 3524 | NR | 955 | 4978 | NR |
| 440 | 207696 | NR | 570 | 122147 | NR | 700 | 11777 | NR | 830 | 2921 | NR | 960 | 4706 | NR |
| 445 | 201830 | NR | 575 | 121605 | NR | 705 | 10412 | NR | 835 | 3595 | NR | 965 | 5083 | NR |
| 450 | 145410 | NR | 580 | 120248 | NR | 710 | 9544 | NR | 840 | 3016 | NR | 970 | 4522 | NR |
| 455 | 89594 | NR | 585 | 117717 | NR | 715 | 8940 | NR | 845 | 4032 | NR | 975 | 4740 | NR |
| 460 | 58321 | NR | 590 | 114359 | NR | 720 | 7897 | NR | 850 | 3579 | NR | 980 | 6122 | NR |
| 465 | 39318 | NR | 595 | 109974 | NR | 725 | 7045 | NR | 855 | 4571 | NR | 985 | 6450 | NR |
| 470 | 27693 | NR | 600 | 105269 | NR | 730 | 6483 | NR | 860 | 4485 | NR | 990 | 4875 | NR |
| 475 | 23081 | NR | 605 | 99453 | NR | 735 | 5838 | NR | 865 | 3978 | NR | 995 | 4764 | NR |
| 480 | 23002 | NR | 610 | 92921 | NR | 740 | 5261 | NR | 870 | 4298 | NR | 1000 | 3640 | NR |
| 485 | 26201 | NR | 615 | 86989 | NR | 745 | 4760 | NR | 875 | 4356 | NR | | | |

REPORT NUMBER: SP1-1908-441-9-R4

Scotopic Flux vs. Wavelength



Scotopic Lumens: 13759.3 S/P: 1.85

| 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 | 3540 | NR | 490 | 33363 | NR | 620 | 80193 | NR | 750 | 4663 | NR | 880 | 4678 | NR |
| 365 | 2862 | NR | 495 | 44177 | NR | 625 | 73091 | NR | 755 | 4147 | NR | 885 | 4128 | NR |
| 370 | 2865 | NR | 500 | 57019 | NR | 630 | 66269 | NR | 760 | 4040 | NR | 890 | 4504 | NR |
| 375 | 3254 | NR | 505 | 70030 | NR | 635 | 60012 | NR | 765 | 3474 | NR | 895 | 4371 | NR |
| 380 | 3076 | NR | 510 | 81972 | NR | 640 | 53914 | NR | 770 | 3469 | NR | 900 | 4082 | NR |
| 385 | 2904 | NR | 515 | 92590 | NR | 645 | 48385 | NR | 775 | 3181 | NR | 905 | 2982 | NR |
| 390 | 2689 | NR | 520 | 100305 | NR | 650 | 43219 | NR | 780 | 2969 | NR | 910 | 4351 | NR |
| 395 | 2619 | NR | 525 | 107452 | NR | 655 | 38562 | NR | 785 | 3132 | NR | 915 | 3365 | NR |
| 400 | 2679 | NR | 530 | 111373 | NR | 660 | 34110 | NR | 790 | 2507 | NR | 920 | 3430 | NR |
| 405 | 3515 | NR | 535 | 114505 | NR | 665 | 30085 | NR | 795 | 2968 | NR | 925 | 4264 | NR |
| 410 | 6934 | NR | 540 | 116408 | NR | 670 | 26205 | NR | 800 | 2758 | NR | 930 | 4095 | NR |
| 415 | 14943 | NR | 545 | 118700 | NR | 675 | 22906 | NR | 805 | 2872 | NR | 935 | 5048 | NR |
| 420 | 31939 | NR | 550 | 119209 | NR | 680 | 20058 | NR | 810 | 3094 | NR | 940 | 4074 | NR |
| 425 | 64701 | NR | 555 | 120742 | NR | 685 | 17413 | NR | 815 | 3222 | NR | 945 | 4949 | NR |
| 430 | 110939 | NR | 560 | 121594 | NR | 690 | 15447 | NR | 820 | 3238 | NR | 950 | 4387 | NR |
| 435 | 164597 | NR | 565 | 121913 | NR | 695 | 13398 | NR | 825 | 3524 | NR | 955 | 4978 | NR |
| 440 | 207696 | NR | 570 | 122147 | NR | 700 | 11777 | NR | 830 | 2921 | NR | 960 | 4706 | NR |
| 445 | 201830 | NR | 575 | 121605 | NR | 705 | 10412 | NR | 835 | 3595 | NR | 965 | 5083 | NR |
| 450 | 145410 | NR | 580 | 120248 | NR | 710 | 9544 | NR | 840 | 3016 | NR | 970 | 4522 | NR |
| 455 | 89594 | NR | 585 | 117717 | NR | 715 | 8940 | NR | 845 | 4032 | NR | 975 | 4740 | NR |
| 460 | 58321 | NR | 590 | 114359 | NR | 720 | 7897 | NR | 850 | 3579 | NR | 980 | 6122 | NR |
| 465 | 39318 | NR | 595 | 109974 | NR | 725 | 7045 | NR | 855 | 4571 | NR | 985 | 6450 | NR |
| 470 | 27693 | NR | 600 | 105269 | NR | 730 | 6483 | NR | 860 | 4485 | NR | 990 | 4875 | NR |
| 475 | 23081 | NR | 605 | 99453 | NR | 735 | 5838 | NR | 865 | 3978 | NR | 995 | 4764 | NR |
| 480 | 23002 | NR | 610 | 92921 | NR | 740 | 5261 | NR | 870 | 4298 | NR | 1000 | 3640 | NR |
| 485 | 26201 | NR | 615 | 86989 | NR | 745 | 4760 | NR | 875 | 4356 | NR | | | |

REPORT NUMBER: SP1-1908-441-9-R4

Melanopic Flux vs. Wavelength



Melanopic Lumens: 5527.6 M/P: 0.74

| 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 | 3540 | NR | 490 | 33363 | NR | 620 | 80193 | NR | 750 | 4663 | NR | 880 | 4678 | NR |
| 365 | 2862 | NR | 495 | 44177 | NR | 625 | 73091 | NR | 755 | 4147 | NR | 885 | 4128 | NR |
| 370 | 2865 | NR | 500 | 57019 | NR | 630 | 66269 | NR | 760 | 4040 | NR | 890 | 4504 | NR |
| 375 | 3254 | NR | 505 | 70030 | NR | 635 | 60012 | NR | 765 | 3474 | NR | 895 | 4371 | NR |
| 380 | 3076 | NR | 510 | 81972 | NR | 640 | 53914 | NR | 770 | 3469 | NR | 900 | 4082 | NR |
| 385 | 2904 | NR | 515 | 92590 | NR | 645 | 48385 | NR | 775 | 3181 | NR | 905 | 2982 | NR |
| 390 | 2689 | NR | 520 | 100305 | NR | 650 | 43219 | NR | 780 | 2969 | NR | 910 | 4351 | NR |
| 395 | 2619 | NR | 525 | 107452 | NR | 655 | 38562 | NR | 785 | 3132 | NR | 915 | 3365 | NR |
| 400 | 2679 | NR | 530 | 111373 | NR | 660 | 34110 | NR | 790 | 2507 | NR | 920 | 3430 | NR |
| 405 | 3515 | NR | 535 | 114505 | NR | 665 | 30085 | NR | 795 | 2968 | NR | 925 | 4264 | NR |
| 410 | 6934 | NR | 540 | 116408 | NR | 670 | 26205 | NR | 800 | 2758 | NR | 930 | 4095 | NR |
| 415 | 14943 | NR | 545 | 118700 | NR | 675 | 22906 | NR | 805 | 2872 | NR | 935 | 5048 | NR |
| 420 | 31939 | NR | 550 | 119209 | NR | 680 | 20058 | NR | 810 | 3094 | NR | 940 | 4074 | NR |
| 425 | 64701 | NR | 555 | 120742 | NR | 685 | 17413 | NR | 815 | 3222 | NR | 945 | 4949 | NR |
| 430 | 110939 | NR | 560 | 121594 | NR | 690 | 15447 | NR | 820 | 3238 | NR | 950 | 4387 | NR |
| 435 | 164597 | NR | 565 | 121913 | NR | 695 | 13398 | NR | 825 | 3524 | NR | 955 | 4978 | NR |
| 440 | 207696 | NR | 570 | 122147 | NR | 700 | 11777 | NR | 830 | 2921 | NR | 960 | 4706 | NR |
| 445 | 201830 | NR | 575 | 121605 | NR | 705 | 10412 | NR | 835 | 3595 | NR | 965 | 5083 | NR |
| 450 | 145410 | NR | 580 | 120248 | NR | 710 | 9544 | NR | 840 | 3016 | NR | 970 | 4522 | NR |
| 455 | 89594 | NR | 585 | 117717 | NR | 715 | 8940 | NR | 845 | 4032 | NR | 975 | 4740 | NR |
| 460 | 58321 | NR | 590 | 114359 | NR | 720 | 7897 | NR | 850 | 3579 | NR | 980 | 6122 | NR |
| 465 | 39318 | NR | 595 | 109974 | NR | 725 | 7045 | NR | 855 | 4571 | NR | 985 | 6450 | NR |
| 470 | 27693 | NR | 600 | 105269 | NR | 730 | 6483 | NR | 860 | 4485 | NR | 990 | 4875 | NR |
| 475 | 23081 | NR | 605 | 99453 | NR | 735 | 5838 | NR | 865 | 3978 | NR | 995 | 4764 | NR |
| 480 | 23002 | NR | 610 | 92921 | NR | 740 | 5261 | NR | 870 | 4298 | NR | 1000 | 3640 | NR |
| 485 | 26201 | NR | 615 | 86989 | NR | 745 | 4760 | NR | 875 | 4356 | NR | | | |

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TM-30-18

Summary

$R_f = 72.1$
 $R_g = 97.2$
 CIE $R_a = 71.7$
 $R_g = -27.1$



Color Vector Graphics

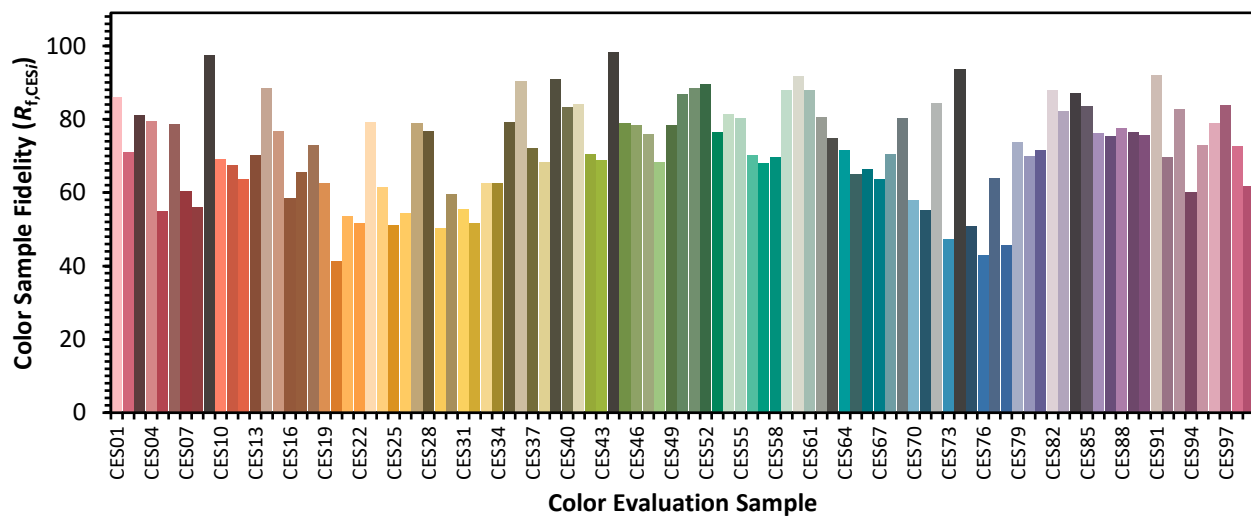


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TM-30-18

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

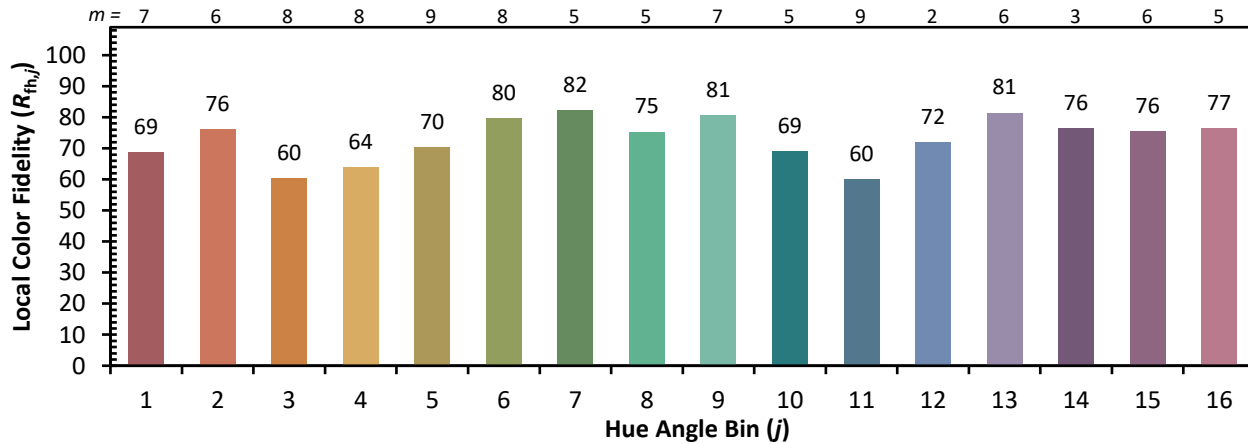
| | | | |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 54 | CES51 = 88 | CES76 = 43 |
| CES02 = 59 | CES27 = 79 | CES52 = 90 | CES77 = 64 |
| CES03 = 30 | CES28 = 77 | CES53 = 77 | CES78 = 46 |
| CES04 = 69 | CES29 = 50 | CES54 = 81 | CES79 = 74 |
| CES05 = 46 | CES30 = 59 | CES55 = 80 | CES80 = 70 |
| CES06 = 50 | CES31 = 55 | CES56 = 70 | CES81 = 71 |
| CES07 = 38 | CES32 = 52 | CES57 = 68 | CES82 = 88 |
| CES08 = 38 | CES33 = 63 | CES58 = 70 | CES83 = 82 |
| CES09 = 29 | CES34 = 63 | CES59 = 88 | CES84 = 87 |
| CES10 = 72 | CES35 = 79 | CES60 = 92 | CES85 = 84 |
| CES11 = 55 | CES36 = 90 | CES61 = 88 | CES86 = 76 |
| CES12 = 61 | CES37 = 72 | CES62 = 81 | CES87 = 75 |
| CES13 = 41 | CES38 = 68 | CES63 = 75 | CES88 = 77 |
| CES14 = 74 | CES39 = 91 | CES64 = 72 | CES89 = 76 |
| CES15 = 70 | CES40 = 83 | CES65 = 65 | CES90 = 76 |
| CES16 = 46 | CES41 = 84 | CES66 = 66 | CES91 = 92 |
| CES17 = 48 | CES42 = 70 | CES67 = 64 | CES92 = 70 |
| CES18 = 55 | CES43 = 69 | CES68 = 71 | CES93 = 83 |
| CES19 = 70 | CES44 = 98 | CES69 = 80 | CES94 = 60 |
| CES20 = 64 | CES45 = 79 | CES70 = 58 | CES95 = 73 |
| CES21 = 85 | CES46 = 78 | CES71 = 55 | CES96 = 79 |
| CES22 = 77 | CES47 = 76 | CES72 = 84 | CES97 = 84 |
| CES23 = 91 | CES48 = 68 | CES73 = 47 | CES98 = 73 |
| CES24 = 90 | CES49 = 78 | CES74 = 94 | CES99 = 62 |
| CES25 = 71 | CES50 = 87 | CES75 = 51 | |



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TM-30-18

Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)