

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



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P636173

Luminaire Tested: GWS-SA3F-730-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-42)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3F-730-U-SLR-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11878.3 lumens
Efficiency: N/A
Efficacy: 64.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

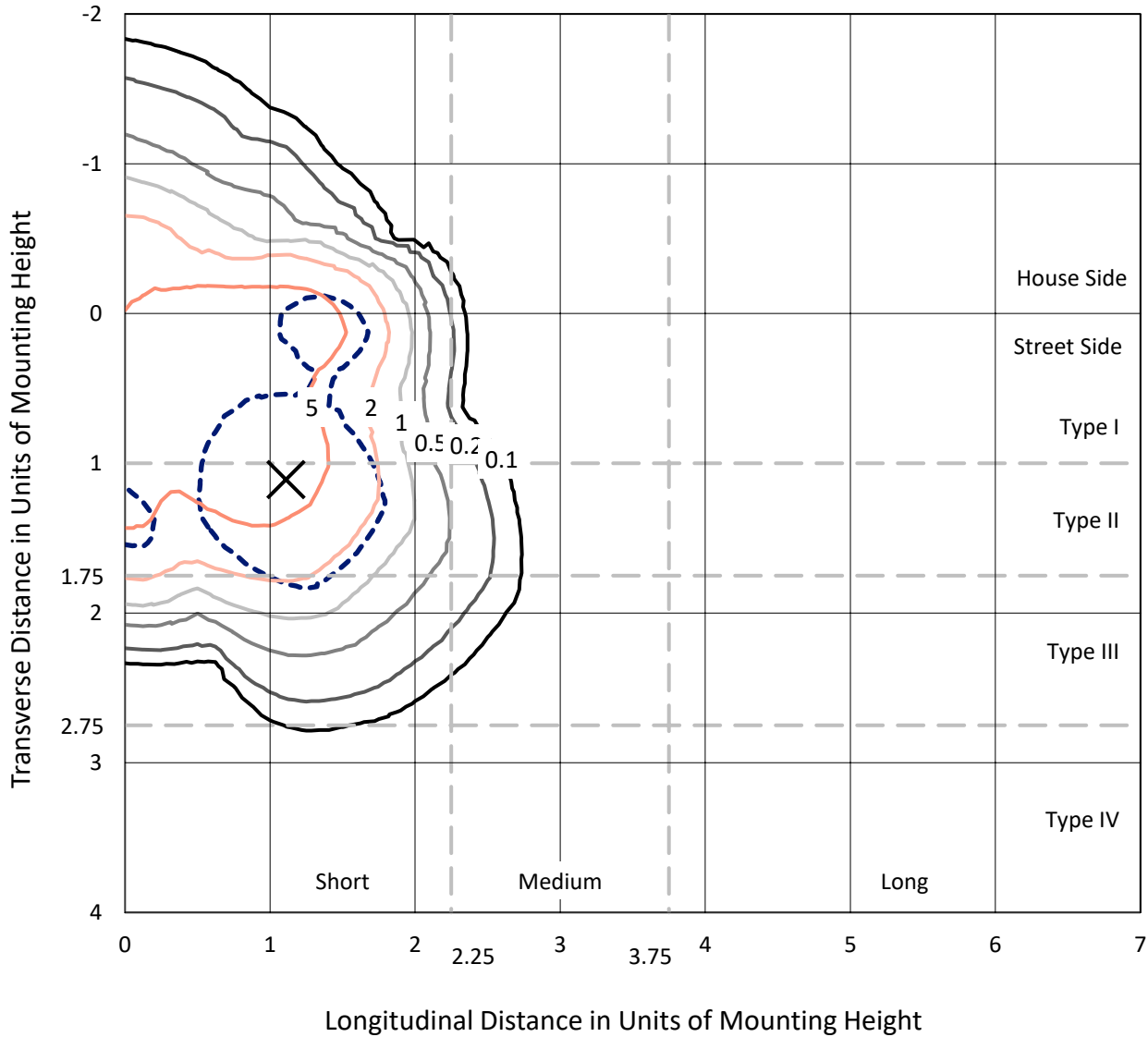
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P636173
 CATALOG NUMBER: GWS-SA3F-730-U-SLR-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

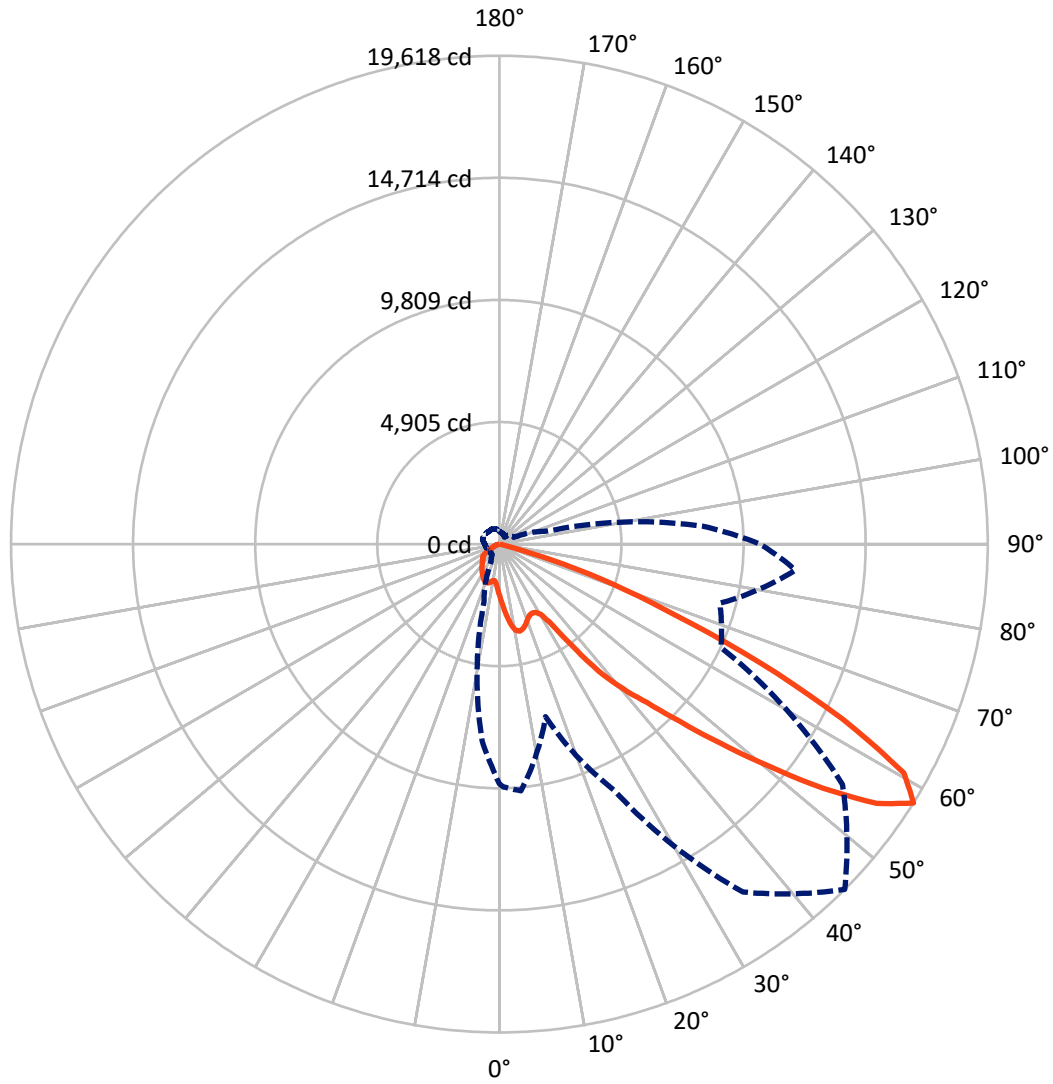
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Short - N/A

REPORT NUMBER: P636173
CATALOG NUMBER: GWS-SA3F-730-U-SLR-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2659.9 | 0.0 | 2659.9 |
| | % Fixture | 22.4 | 0.0 | 22.4 |
| Street Side | Lumens | 9218.4 | 0.0 | 9218.4 |
| | % Fixture | 77.6 | 0.0 | 77.6 |
| Total | Lumens | 11878.3 | 0.0 | 11878.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 205.4 | 1.7 |
| 10°-20° | 664.4 | 5.6 |
| 20°-30° | 1079.3 | 9.1 |
| 30°-40° | 1667.7 | 14.0 |
| 40°-50° | 2674.1 | 22.5 |
| 50°-60° | 3654.8 | 30.8 |
| 60°-70° | 1770.1 | 14.9 |
| 70°-80° | 162.1 | 1.4 |
| 80°-90° | 0.5 | 0.0 |
| 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° | 11878.3 | 100.0 |
| 0°-180° | 11878.3 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P636173

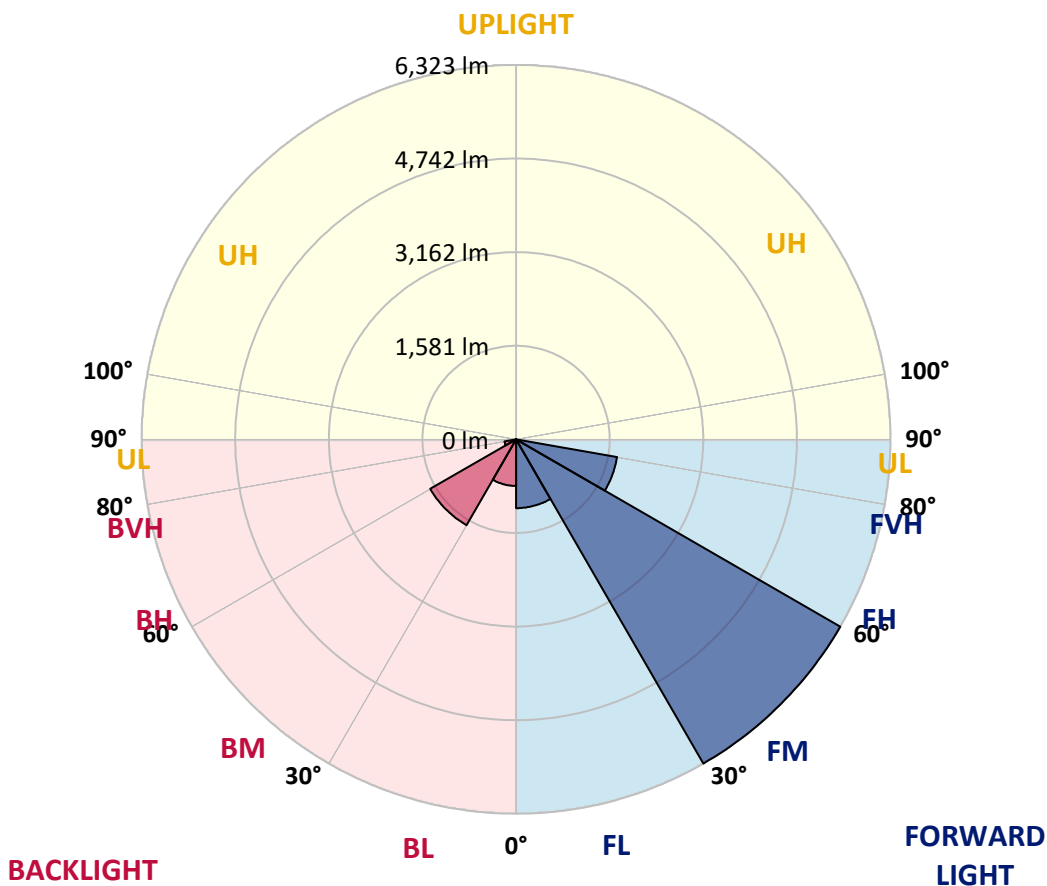
CATALOG NUMBER: GWS-SA3F-730-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1162.1 | 9.8 | | | |
| FM (30°-60°) | 6323.1 | 53.2 | | | |
| FH (60°-80°) | 1732.8 | 14.6 | | | G1/1800 |
| FVH (80°-90°) | 0.5 | 0.0 | | | G0/10 |
| BL (0°-30°) | 787.0 | 6.6 | B2/1000 | | |
| BM (30°-60°) | 1673.5 | 14.1 | B2/2500 | | |
| BH (60°-80°) | 199.4 | 1.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

Type III Short





REPORT NUMBER: P636173

CATALOG NUMBER: GWS-SA3F-730-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2087.7 | 2087.7 | 2087.7 | 2087.7 | 2087.7 | 2087.7 | 2087.7 | 2087.7 | 2087.7 | 2087.7 | 2087.7 |
| 2.5° | 2261.7 | 2276.1 | 2300.0 | 2351.1 | 2394.2 | 2422.9 | 2435.7 | 2432.5 | 2414.9 | 2402.2 | 2376.6 |
| 5° | 2504.3 | 2504.3 | 2550.6 | 2667.1 | 2756.5 | 2812.4 | 2841.1 | 2823.6 | 2788.4 | 2732.6 | 2646.4 |
| 7.5° | 2716.6 | 2724.6 | 2802.8 | 2968.8 | 3104.5 | 3184.3 | 3230.6 | 3221.0 | 3158.7 | 3051.8 | 2879.4 |
| 10° | 2882.6 | 2892.2 | 2995.9 | 3198.6 | 3358.3 | 3439.7 | 3508.3 | 3514.7 | 3446.0 | 3304.0 | 3106.1 |
| 12.5° | 3043.8 | 3053.4 | 3161.9 | 3356.7 | 3497.1 | 3530.6 | 3591.3 | 3615.2 | 3597.7 | 3497.1 | 3291.2 |
| 15° | 3217.8 | 3240.1 | 3332.7 | 3478.0 | 3537.0 | 3497.1 | 3537.0 | 3580.1 | 3639.2 | 3629.6 | 3444.4 |
| 17.5° | 3388.6 | 3404.5 | 3498.7 | 3549.8 | 3484.4 | 3380.6 | 3399.8 | 3450.8 | 3584.9 | 3715.8 | 3596.1 |
| 20° | 3546.6 | 3568.9 | 3647.2 | 3580.1 | 3382.2 | 3221.0 | 3222.6 | 3289.6 | 3493.9 | 3768.5 | 3750.9 |
| 22.5° | 3712.6 | 3746.1 | 3802.0 | 3613.6 | 3288.0 | 3094.9 | 3102.9 | 3163.5 | 3422.1 | 3817.9 | 3926.5 |
| 25° | 3929.7 | 3961.6 | 3998.3 | 3696.6 | 3257.7 | 3032.6 | 3063.0 | 3118.8 | 3422.1 | 3902.5 | 4143.6 |
| 27.5° | 4223.4 | 4245.7 | 4247.3 | 3851.5 | 3310.4 | 3042.2 | 3106.1 | 3169.9 | 3524.3 | 4071.7 | 4434.1 |
| 30° | 4592.1 | 4627.2 | 4580.9 | 4092.5 | 3474.8 | 3169.9 | 3264.1 | 3343.9 | 3744.5 | 4357.4 | 4861.8 |
| 32.5° | 5040.6 | 5090.1 | 5027.8 | 4450.0 | 3817.9 | 3610.4 | 3781.2 | 3827.5 | 4095.7 | 4770.8 | 5347.0 |
| 35° | 5567.3 | 5608.8 | 5541.8 | 4944.8 | 4619.2 | 4657.5 | 4967.2 | 4908.1 | 4801.2 | 5280.0 | 5913.7 |
| 37.5° | 6145.1 | 6183.4 | 6054.1 | 5695.0 | 5803.5 | 5969.5 | 6464.3 | 6261.6 | 5916.9 | 5936.0 | 6528.2 |
| 40° | 6675.0 | 6716.5 | 6513.8 | 6510.6 | 6734.1 | 7037.3 | 7634.3 | 7355.0 | 6885.7 | 6794.7 | 7104.4 |
| 42.5° | 7224.1 | 7252.8 | 7069.3 | 6944.8 | 7452.3 | 8076.4 | 8708.5 | 8331.8 | 7527.4 | 7428.4 | 7825.8 |
| 45° | 8007.8 | 8068.4 | 7741.2 | 7158.6 | 8098.8 | 9271.9 | 10153.0 | 9417.2 | 7964.7 | 7884.9 | 8930.4 |
| 47.5° | 9160.2 | 9204.9 | 8537.7 | 7292.7 | 8700.5 | 10761.1 | 11958.2 | 10825.0 | 8349.4 | 8167.4 | 10440.3 |
| 50° | 10113.1 | 10143.4 | 9270.3 | 7439.6 | 9340.6 | 12366.8 | 14015.6 | 12494.5 | 8781.9 | 8635.1 | 11849.7 |
| 52.5° | 10815.4 | 10930.3 | 10232.8 | 7741.2 | 10181.7 | 14255.0 | 16293.3 | 14472.1 | 9457.1 | 9538.5 | 13018.0 |
| 55° | 10960.6 | 11117.0 | 10890.4 | 7926.4 | 10922.3 | 16178.4 | 18397.0 | 16242.2 | 10130.6 | 10223.2 | 13410.7 |
| 57.5° | 9632.6 | 9757.1 | 9945.5 | 7179.4 | 10904.8 | 17059.4 | 19618.0 | 16829.6 | 9824.2 | 9168.2 | 11940.7 |
| 60° | 7216.1 | 7302.3 | 7643.9 | 5487.5 | 10028.5 | 16280.5 | 18666.7 | 15830.4 | 8590.4 | 6995.8 | 9097.9 |
| 62.5° | 4279.2 | 4317.5 | 4750.1 | 3554.6 | 8323.8 | 14020.4 | 15480.9 | 13659.7 | 6788.3 | 4705.4 | 5572.1 |
| 65° | 1642.4 | 1626.5 | 1956.9 | 1754.1 | 6121.2 | 11168.1 | 11514.5 | 10413.2 | 4657.5 | 2156.4 | 2124.4 |
| 67.5° | 253.8 | 242.6 | 327.2 | 518.7 | 4414.9 | 7739.6 | 7597.6 | 7505.0 | 2917.7 | 502.8 | 438.9 |
| 70° | 57.5 | 57.5 | 70.2 | 153.2 | 2697.5 | 4547.4 | 4866.6 | 4640.0 | 1867.5 | 106.9 | 57.5 |
| 72.5° | 27.1 | 27.1 | 33.5 | 65.4 | 976.8 | 1873.9 | 2183.5 | 2150.0 | 606.5 | 35.1 | 20.7 |
| 75° | 9.6 | 11.2 | 11.2 | 14.4 | 59.1 | 97.4 | 223.5 | 159.6 | 38.3 | 0.0 | 0.0 |
| 77.5° | 3.2 | 3.2 | 3.2 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 1.6 | 1.6 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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 |



REPORT NUMBER: P636173

CATALOG NUMBER: GWS-SA3F-730-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2087.7 | 2087.7 | 2087.7 | 2087.7 | 2087.7 | 2087.7 | 2087.7 | 2087.7 | 2087.7 | 2087.7 | 2087.7 |
| 2.5° | 2320.8 | 2309.6 | 2268.1 | 2212.2 | 2158.0 | 2110.1 | 2060.6 | 2001.5 | 1958.5 | 1909.0 | 1893.0 |
| 5° | 2579.3 | 2509.1 | 2395.8 | 2277.7 | 2169.1 | 2076.6 | 1987.2 | 1891.4 | 1821.2 | 1751.0 | 1727.0 |
| 7.5° | 2798.0 | 2694.3 | 2510.7 | 2333.5 | 2185.1 | 2054.2 | 1924.9 | 1794.1 | 1691.9 | 1608.9 | 1583.4 |
| 10° | 2994.3 | 2874.6 | 2628.8 | 2410.2 | 2223.4 | 2071.8 | 1915.4 | 1751.0 | 1618.5 | 1519.5 | 1495.6 |
| 12.5° | 3163.5 | 3024.7 | 2729.4 | 2467.6 | 2239.4 | 2065.4 | 1913.8 | 1782.9 | 1663.2 | 1549.8 | 1519.5 |
| 15° | 3305.6 | 3152.4 | 2814.0 | 2505.9 | 2215.4 | 1985.6 | 1853.1 | 1832.4 | 1822.8 | 1698.3 | 1639.2 |
| 17.5° | 3444.4 | 3272.1 | 2882.6 | 2523.5 | 2148.4 | 1845.1 | 1749.4 | 1843.5 | 1944.1 | 1862.7 | 1787.7 |
| 20° | 3589.7 | 3393.4 | 2952.8 | 2526.7 | 2036.7 | 1687.1 | 1671.1 | 1819.6 | 1947.3 | 1921.7 | 1851.5 |
| 22.5° | 3760.5 | 3545.0 | 3040.6 | 2525.1 | 1896.2 | 1553.0 | 1613.7 | 1773.3 | 1877.0 | 1875.5 | 1819.6 |
| 25° | 4007.9 | 3736.5 | 3158.7 | 2534.7 | 1743.0 | 1449.3 | 1549.8 | 1695.1 | 1779.7 | 1776.5 | 1730.2 |
| 27.5° | 4272.8 | 3964.8 | 3312.0 | 2558.6 | 1612.1 | 1388.6 | 1474.8 | 1588.1 | 1661.6 | 1658.4 | 1618.5 |
| 30° | 4644.7 | 4228.1 | 3458.8 | 2560.2 | 1517.9 | 1356.7 | 1391.8 | 1470.0 | 1540.3 | 1532.3 | 1502.0 |
| 32.5° | 5096.4 | 4525.0 | 3581.7 | 2469.2 | 1458.9 | 1326.4 | 1305.6 | 1345.5 | 1399.8 | 1388.6 | 1380.7 |
| 35° | 5642.3 | 4877.8 | 3687.1 | 2269.7 | 1367.9 | 1265.7 | 1209.9 | 1217.8 | 1256.2 | 1262.5 | 1259.3 |
| 37.5° | 6264.8 | 5297.6 | 3817.9 | 2006.3 | 1245.0 | 1177.9 | 1102.9 | 1096.5 | 1118.9 | 1139.6 | 1155.6 |
| 40° | 6879.3 | 5770.0 | 3995.1 | 1739.8 | 1133.3 | 1066.2 | 994.4 | 978.4 | 988.0 | 1024.7 | 1058.2 |
| 42.5° | 7570.4 | 6317.5 | 4186.7 | 1511.5 | 1056.6 | 943.3 | 874.7 | 844.4 | 871.5 | 930.5 | 970.4 |
| 45° | 8566.4 | 7085.2 | 4373.4 | 1329.6 | 1024.7 | 834.8 | 742.2 | 739.0 | 769.3 | 845.9 | 890.6 |
| 47.5° | 9964.6 | 8078.0 | 4496.3 | 1187.5 | 1023.1 | 750.2 | 640.0 | 659.2 | 694.3 | 769.3 | 820.4 |
| 50° | 11327.7 | 9321.4 | 4360.6 | 1079.0 | 989.6 | 694.3 | 563.4 | 601.7 | 636.9 | 702.3 | 755.0 |
| 52.5° | 12149.7 | 9990.2 | 3832.3 | 976.8 | 885.9 | 668.8 | 488.4 | 555.5 | 561.8 | 620.9 | 676.8 |
| 55° | 12063.6 | 9557.6 | 2935.3 | 818.8 | 732.6 | 632.1 | 410.2 | 501.2 | 504.4 | 549.1 | 597.0 |
| 57.5° | 10470.6 | 8205.7 | 2015.9 | 664.0 | 550.7 | 521.9 | 338.4 | 423.0 | 453.3 | 480.4 | 515.6 |
| 60° | 7803.5 | 5987.1 | 898.6 | 539.5 | 349.6 | 352.7 | 288.9 | 319.2 | 365.5 | 397.4 | 427.8 |
| 62.5° | 4598.5 | 3444.4 | 365.5 | 324.0 | 193.1 | 221.9 | 233.0 | 233.0 | 261.8 | 285.7 | 304.9 |
| 65° | 1738.2 | 1205.1 | 148.4 | 162.8 | 100.6 | 103.7 | 137.3 | 169.2 | 191.5 | 212.3 | 237.8 |
| 67.5° | 304.9 | 210.7 | 76.6 | 60.7 | 59.1 | 52.7 | 70.2 | 110.1 | 122.9 | 138.9 | 150.0 |
| 70° | 51.1 | 43.1 | 31.9 | 30.3 | 27.1 | 28.7 | 46.3 | 78.2 | 86.2 | 91.0 | 95.8 |
| 72.5° | 14.4 | 12.8 | 9.6 | 8.0 | 6.4 | 8.0 | 28.7 | 60.7 | 63.8 | 67.0 | 71.8 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.2 | 43.1 | 46.3 | 47.9 | 52.7 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.6 | 12.8 | 16.0 | 12.8 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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 |



REPORT NUMBER: P636173

CATALOG NUMBER: GWS-SA3F-730-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2087.7 | 2087.7 | 2087.7 | 2087.7 | 2087.7 | 2087.7 | 2087.7 | 2087.7 | 2087.7 | 2087.7 | 2087.7 |
| 2.5° | 1883.4 | 1851.5 | 1834.0 | 1824.4 | 1824.4 | 1811.6 | 1797.2 | 1792.5 | 1813.2 | 1813.2 | 1848.3 |
| 5° | 1696.7 | 1671.1 | 1642.4 | 1624.9 | 1597.7 | 1602.5 | 1586.6 | 1585.0 | 1605.7 | 1615.3 | 1652.0 |
| 7.5° | 1567.4 | 1535.5 | 1517.9 | 1506.7 | 1492.4 | 1486.0 | 1471.6 | 1466.8 | 1478.0 | 1494.0 | 1529.1 |
| 10° | 1481.2 | 1476.4 | 1474.8 | 1482.8 | 1482.8 | 1474.8 | 1462.1 | 1454.1 | 1457.3 | 1487.6 | 1527.5 |
| 12.5° | 1503.6 | 1513.1 | 1516.3 | 1529.1 | 1535.5 | 1529.1 | 1519.5 | 1522.7 | 1543.5 | 1599.3 | 1658.4 |
| 15° | 1600.9 | 1592.9 | 1589.7 | 1596.1 | 1600.9 | 1594.5 | 1591.3 | 1615.3 | 1687.1 | 1766.9 | 1834.0 |
| 17.5° | 1704.7 | 1653.6 | 1631.2 | 1631.2 | 1634.4 | 1631.2 | 1634.4 | 1680.7 | 1797.2 | 1877.0 | 1926.5 |
| 20° | 1757.3 | 1663.2 | 1628.1 | 1620.1 | 1626.5 | 1628.1 | 1639.2 | 1691.9 | 1819.6 | 1875.5 | 1886.6 |
| 22.5° | 1741.4 | 1623.3 | 1583.4 | 1577.0 | 1583.4 | 1589.7 | 1600.9 | 1645.6 | 1765.3 | 1794.1 | 1789.3 |
| 25° | 1661.6 | 1545.1 | 1513.1 | 1513.1 | 1527.5 | 1525.9 | 1530.7 | 1562.6 | 1661.6 | 1679.1 | 1671.1 |
| 27.5° | 1561.0 | 1450.9 | 1423.7 | 1439.7 | 1452.5 | 1449.3 | 1450.9 | 1478.0 | 1551.4 | 1556.2 | 1548.2 |
| 30° | 1458.9 | 1363.1 | 1337.6 | 1356.7 | 1374.3 | 1371.1 | 1372.7 | 1399.8 | 1446.1 | 1441.3 | 1430.1 |
| 32.5° | 1355.1 | 1284.9 | 1265.7 | 1276.9 | 1304.0 | 1300.8 | 1307.2 | 1336.0 | 1353.5 | 1332.8 | 1320.0 |
| 35° | 1259.3 | 1222.6 | 1208.3 | 1214.7 | 1235.4 | 1240.2 | 1251.4 | 1270.5 | 1270.5 | 1245.0 | 1222.6 |
| 37.5° | 1170.0 | 1165.2 | 1155.6 | 1147.6 | 1166.8 | 1181.1 | 1197.1 | 1219.4 | 1187.5 | 1150.8 | 1130.1 |
| 40° | 1087.0 | 1107.7 | 1094.9 | 1074.2 | 1085.4 | 1106.1 | 1138.0 | 1155.6 | 1117.3 | 1080.6 | 1045.5 |
| 42.5° | 1010.4 | 1045.5 | 1040.7 | 1015.1 | 1024.7 | 1043.9 | 1080.6 | 1094.9 | 1050.3 | 1008.8 | 975.2 |
| 45° | 936.9 | 986.4 | 989.6 | 957.7 | 967.3 | 986.4 | 1029.5 | 1034.3 | 976.8 | 932.1 | 908.2 |
| 47.5° | 873.1 | 927.4 | 928.9 | 905.0 | 908.2 | 935.3 | 975.2 | 976.8 | 911.4 | 869.9 | 839.6 |
| 50° | 812.4 | 874.7 | 879.5 | 858.7 | 861.9 | 893.8 | 927.4 | 921.0 | 850.7 | 807.6 | 780.5 |
| 52.5° | 739.0 | 823.6 | 834.8 | 825.2 | 838.0 | 863.5 | 884.3 | 861.9 | 780.5 | 737.4 | 713.5 |
| 55° | 659.2 | 769.3 | 793.3 | 786.9 | 801.3 | 822.0 | 826.8 | 812.4 | 710.3 | 667.2 | 644.8 |
| 57.5° | 566.6 | 633.7 | 675.2 | 662.4 | 673.6 | 694.3 | 708.7 | 697.5 | 620.9 | 587.4 | 568.2 |
| 60° | 469.3 | 514.0 | 523.5 | 502.8 | 493.2 | 529.9 | 563.4 | 549.1 | 483.6 | 462.9 | 440.5 |
| 62.5° | 343.2 | 394.2 | 400.6 | 373.5 | 362.3 | 402.2 | 431.0 | 416.6 | 344.8 | 322.4 | 304.9 |
| 65° | 274.5 | 322.4 | 335.2 | 309.6 | 303.3 | 333.6 | 351.1 | 316.0 | 265.0 | 241.0 | 221.9 |
| 67.5° | 180.4 | 218.7 | 252.2 | 250.6 | 237.8 | 247.4 | 234.6 | 205.9 | 169.2 | 156.4 | 143.7 |
| 70° | 111.7 | 134.1 | 154.8 | 162.8 | 161.2 | 158.0 | 140.5 | 119.7 | 108.5 | 103.7 | 97.4 |
| 72.5° | 86.2 | 108.5 | 124.5 | 129.3 | 130.9 | 126.1 | 111.7 | 92.6 | 81.4 | 75.0 | 70.2 |
| 75° | 63.8 | 81.4 | 94.2 | 100.6 | 103.7 | 100.6 | 86.2 | 73.4 | 62.2 | 57.5 | 52.7 |
| 77.5° | 22.3 | 27.1 | 33.5 | 36.7 | 35.1 | 33.5 | 30.3 | 30.3 | 23.9 | 22.3 | 19.2 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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 |



REPORT NUMBER: P636173

CATALOG NUMBER: GWS-SA3F-730-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0° | 2087.7 | 2087.7 | 2087.7 | 2087.7 | 2087.7 | 2087.7 | 2087.7 | 2087.7 | 2087.7 | 2087.7 |
| 2.5° | 1888.2 | 1917.0 | 1969.6 | 2017.5 | 2068.6 | 2121.3 | 2178.7 | 2237.8 | 2264.9 | 2261.7 |
| 5° | 1707.9 | 1770.1 | 1856.3 | 1950.5 | 2055.8 | 2169.1 | 2295.2 | 2424.5 | 2480.4 | 2504.3 |
| 7.5° | 1594.5 | 1682.3 | 1795.6 | 1915.4 | 2054.2 | 2215.4 | 2405.4 | 2608.1 | 2689.5 | 2716.6 |
| 10° | 1608.9 | 1711.1 | 1805.2 | 1921.7 | 2070.2 | 2279.3 | 2515.5 | 2756.5 | 2852.3 | 2882.6 |
| 12.5° | 1725.4 | 1747.8 | 1773.3 | 1869.1 | 2055.8 | 2327.2 | 2616.1 | 2903.4 | 3013.5 | 3043.8 |
| 15° | 1830.8 | 1727.0 | 1679.1 | 1766.9 | 2004.7 | 2360.7 | 2718.2 | 3061.4 | 3182.7 | 3217.8 |
| 17.5° | 1835.6 | 1679.1 | 1572.2 | 1640.8 | 1921.7 | 2375.0 | 2818.8 | 3222.6 | 3355.1 | 3388.6 |
| 20° | 1776.5 | 1626.5 | 1489.2 | 1490.8 | 1808.4 | 2371.8 | 2901.8 | 3367.8 | 3516.3 | 3546.6 |
| 22.5° | 1690.3 | 1564.2 | 1422.2 | 1372.7 | 1687.1 | 2365.5 | 2992.7 | 3522.7 | 3683.9 | 3712.6 |
| 25° | 1594.5 | 1484.4 | 1358.3 | 1283.3 | 1565.8 | 2371.8 | 3120.4 | 3725.4 | 3902.5 | 3929.7 |
| 27.5° | 1490.8 | 1396.6 | 1308.8 | 1248.2 | 1463.7 | 2395.8 | 3273.7 | 3983.9 | 4194.6 | 4223.4 |
| 30° | 1382.2 | 1312.0 | 1276.9 | 1240.2 | 1399.8 | 2402.2 | 3439.7 | 4285.6 | 4552.2 | 4592.1 |
| 32.5° | 1275.3 | 1237.0 | 1238.6 | 1245.0 | 1339.2 | 2357.5 | 3591.3 | 4620.8 | 4976.7 | 5040.6 |
| 35° | 1176.3 | 1165.2 | 1197.1 | 1229.0 | 1251.4 | 2242.6 | 3723.8 | 5016.6 | 5501.9 | 5567.3 |
| 37.5° | 1091.8 | 1101.3 | 1141.2 | 1173.2 | 1155.6 | 2079.8 | 3899.3 | 5511.4 | 6089.2 | 6145.1 |
| 40° | 1010.4 | 1034.3 | 1080.6 | 1094.9 | 1082.2 | 1889.8 | 4110.0 | 5988.7 | 6598.4 | 6675.0 |
| 42.5° | 935.3 | 952.9 | 1018.3 | 1021.5 | 1061.4 | 1696.7 | 4312.7 | 6502.6 | 7184.2 | 7224.1 |
| 45° | 874.7 | 871.5 | 938.5 | 959.3 | 1088.6 | 1482.8 | 4510.7 | 7187.4 | 7950.3 | 8007.8 |
| 47.5° | 815.6 | 812.4 | 828.4 | 922.6 | 1099.7 | 1284.9 | 4707.0 | 8189.7 | 9061.2 | 9160.2 |
| 50° | 759.8 | 764.5 | 715.1 | 905.0 | 1039.1 | 1133.3 | 4796.4 | 9117.1 | 10071.6 | 10113.1 |
| 52.5° | 710.3 | 692.7 | 606.5 | 847.5 | 909.8 | 989.6 | 4542.6 | 9538.5 | 10697.3 | 10815.4 |
| 55° | 640.0 | 542.7 | 499.6 | 687.9 | 718.3 | 863.5 | 3720.6 | 9294.3 | 10751.5 | 10960.6 |
| 57.5° | 547.5 | 426.2 | 424.6 | 507.6 | 507.6 | 801.3 | 2383.0 | 7940.7 | 9265.5 | 9632.6 |
| 60° | 421.4 | 330.4 | 351.1 | 352.7 | 325.6 | 584.2 | 1337.6 | 5752.5 | 6850.6 | 7216.1 |
| 62.5° | 300.1 | 252.2 | 265.0 | 210.7 | 186.7 | 292.1 | 641.6 | 3312.0 | 4228.1 | 4279.2 |
| 65° | 201.1 | 170.8 | 138.9 | 116.5 | 114.9 | 124.5 | 265.0 | 1197.1 | 1455.7 | 1642.4 |
| 67.5° | 132.5 | 103.7 | 73.4 | 73.4 | 83.0 | 83.0 | 100.6 | 197.9 | 277.7 | 253.8 |
| 70° | 86.2 | 71.8 | 46.3 | 44.7 | 54.3 | 54.3 | 51.1 | 54.3 | 57.5 | 57.5 |
| 72.5° | 63.8 | 54.3 | 27.1 | 23.9 | 30.3 | 31.9 | 28.7 | 27.1 | 27.1 | 27.1 |
| 75° | 47.9 | 38.3 | 16.0 | 11.2 | 14.4 | 19.2 | 16.0 | 11.2 | 11.2 | 9.6 |
| 77.5° | 19.2 | 14.4 | 6.4 | 4.8 | 8.0 | 11.2 | 9.6 | 4.8 | 3.2 | 3.2 |
| 80° | 1.6 | 3.2 | 3.2 | 3.2 | 4.8 | 6.4 | 8.0 | 3.2 | 1.6 | 1.6 |
| 82.5° | 0.0 | 1.6 | 1.6 | 1.6 | 3.2 | 4.8 | 6.4 | 3.2 | 1.6 | 1.6 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 3.2 | 4.8 | 3.2 | 1.6 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 4.8 | 3.2 | 1.6 | 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



LM-79-2008: Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGRAW-EDISON

Report Number: SP1-1908-441-2-R4

Test Date: 10/03/2019

Luminaire Tested: SA1C-730-U-5WQ

Data in this report applies to families of products SA1C-730-U-5WQ .

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 |

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

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

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

Photopic Flux vs. Wavelength



#####

| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360 | 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 | | | |

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

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 | |



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

TM-30-18

Color Rendition by Hue-Angle Bin



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

TM-30-18

Measure Comparisons



(END OF REPORT)