

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: P437883

Luminaire Tested: **ISC-SA1F-750-U-SLR-HSS**

Issue Date: 12/9/2020

Test Information

Test Method: LM-79-08
Report Number: P437883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-074-23)
Test Lab: INNOVATION CENTER
Issue Date: 12/9/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISC-SA1F-750-U-SLR-HSS
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
(1) 70 CRI, 5000K, 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: 5838 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

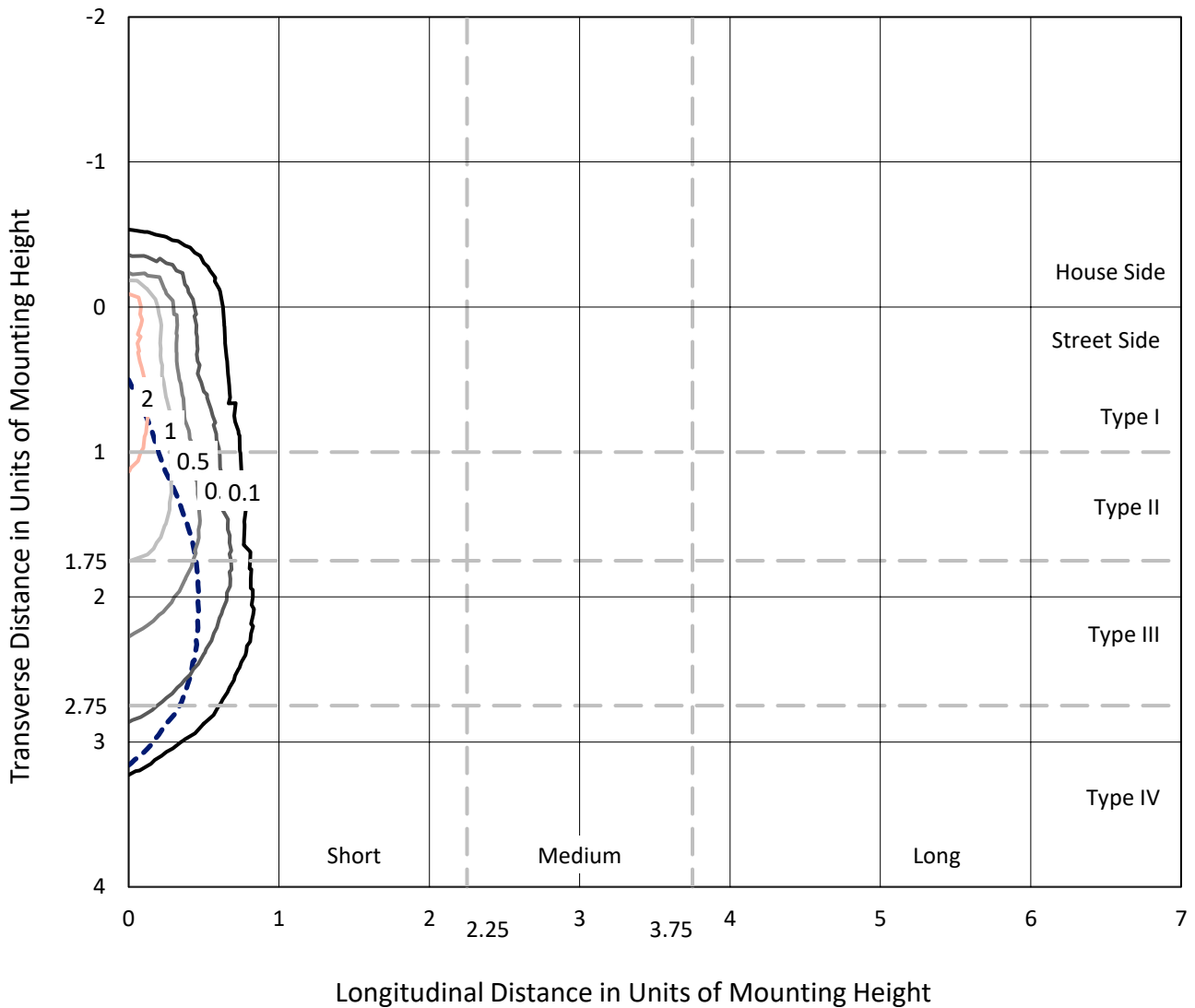
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

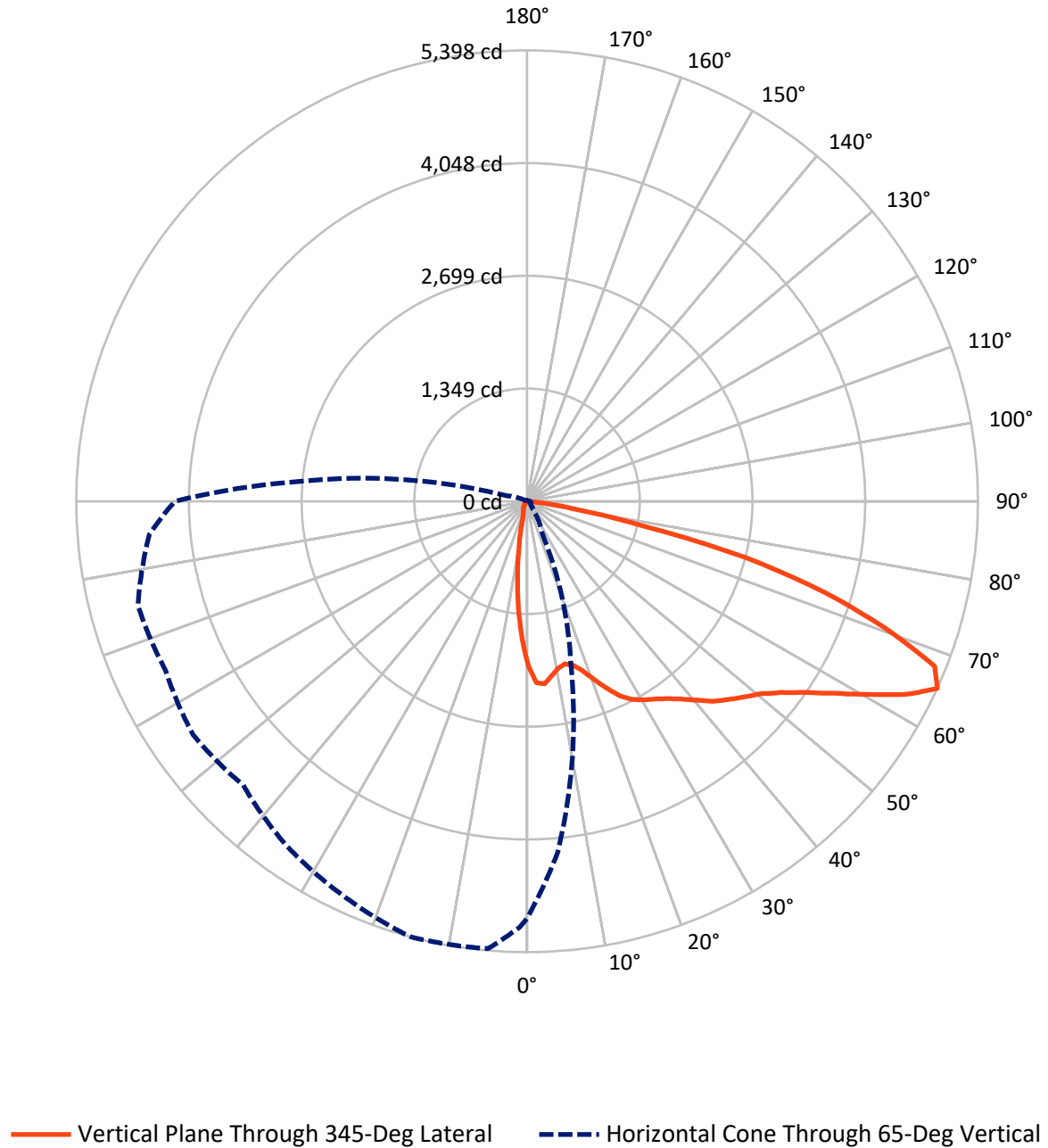
× Max cd
 - - - 1/2 Max cd



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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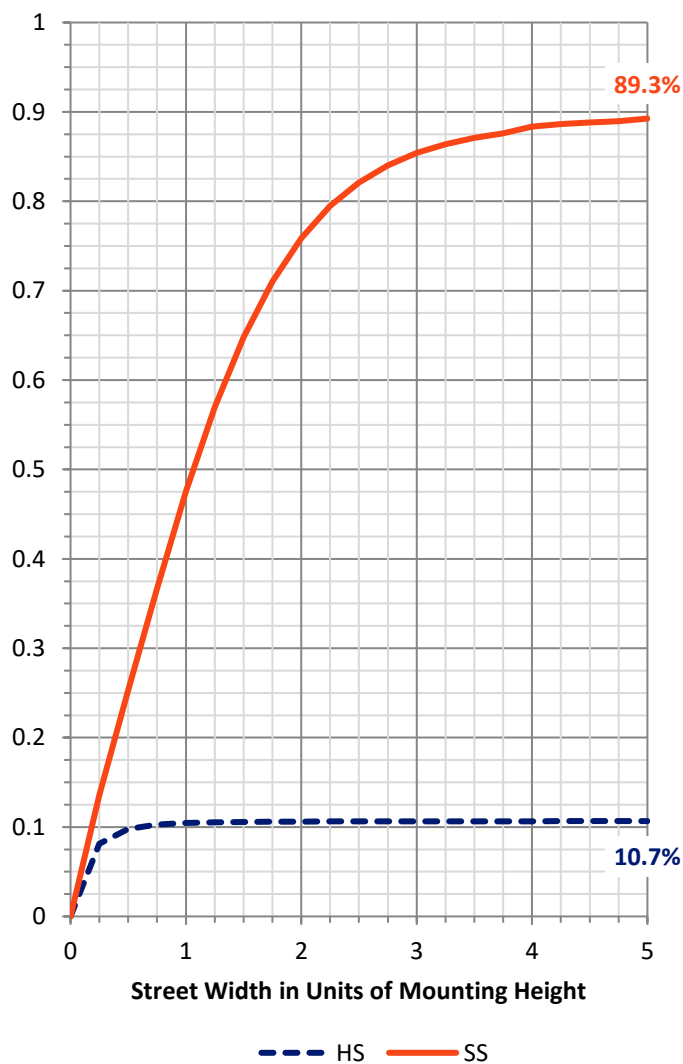
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 629.3 | 0.0 | 629.3 |
| | % Fixture | 10.8 | 0.0 | 10.8 |
| Street Side | Lumens | 5208.6 | 0.0 | 5208.6 |
| | % Fixture | 89.2 | 0.0 | 89.2 |
| Total | Lumens | 5838.0 | 0.0 | 5838.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 146.2 | 2.5 |
| 10°-20° | 284.7 | 4.9 |
| 20°-30° | 415.1 | 7.1 |
| 30°-40° | 617.1 | 10.6 |
| 40°-50° | 904.6 | 15.5 |
| 50°-60° | 1301.7 | 22.3 |
| 60°-70° | 1460.3 | 25.0 |
| 70°-80° | 640.7 | 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° | 5838.0 | 100.0 |
| 0°-180° | 5838.0 | 100.0 |

Coefficient of Utilization



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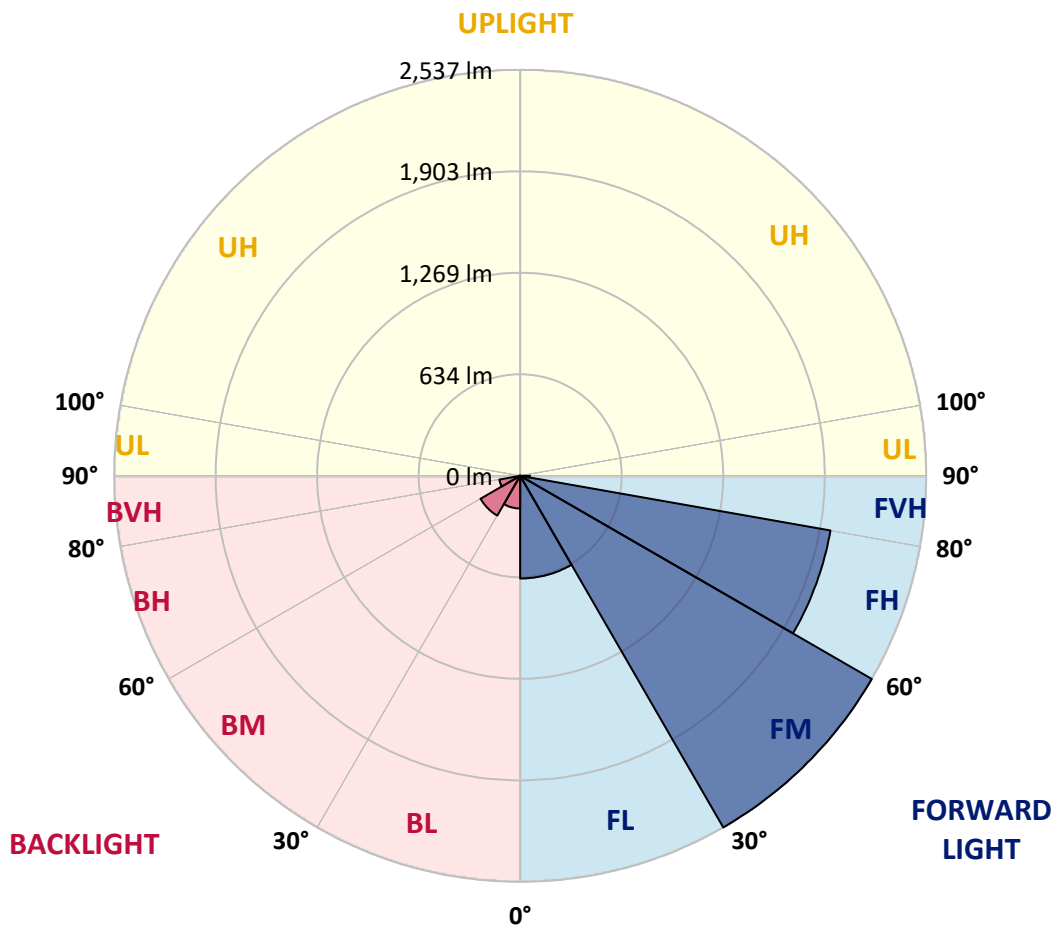
CATALOG NUMBER: ISC-SA1F-750-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 641.9 | 11.0 | | | |
| FM (30°-60°) | 2537.0 | 43.5 | | | |
| FH (60°-80°) | 1968.8 | 33.7 | | | G2/5000 |
| FVH (80°-90°) | 60.9 | 1.0 | | | G1/100 |
| BL (0°-30°) | 204.1 | 3.5 | B1/500 | | |
| BM (30°-60°) | 286.4 | 4.9 | B1/1000 | | |
| BH (60°-80°) | 132.2 | 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° | 1970.2 | 1970.2 | 1970.2 | 1970.2 | 1970.2 | 1970.2 | 1970.2 | 1970.2 | 1970.2 | 1970.2 | 1970.2 |
| 2.5° | 2085.1 | 2085.1 | 2054.2 | 1981.4 | 1914.1 | 1832.8 | 1788.0 | 1746.0 | 1701.1 | 1670.3 | 1622.7 |
| 5° | 1987.0 | 1967.4 | 1922.5 | 1788.0 | 1645.1 | 1549.8 | 1476.9 | 1348.0 | 1286.4 | 1241.5 | 1221.9 |
| 7.5° | 1824.4 | 1813.2 | 1740.4 | 1583.4 | 1412.5 | 1258.3 | 1160.2 | 1053.7 | 969.7 | 936.0 | 877.2 |
| 10° | 1712.3 | 1701.1 | 1608.6 | 1395.7 | 1196.7 | 1084.6 | 1006.1 | 930.4 | 849.2 | 767.9 | 706.2 |
| 12.5° | 1656.3 | 1633.9 | 1544.2 | 1303.2 | 1132.2 | 1022.9 | 933.2 | 840.8 | 739.9 | 650.2 | 577.3 |
| 15° | 1670.3 | 1633.9 | 1533.0 | 1286.4 | 1084.6 | 950.1 | 835.1 | 700.6 | 599.7 | 493.2 | 426.0 |
| 17.5° | 1768.4 | 1729.2 | 1605.8 | 1300.4 | 1022.9 | 852.0 | 700.6 | 549.3 | 414.8 | 316.7 | 283.1 |
| 20° | 1950.6 | 1908.5 | 1740.4 | 1331.2 | 983.7 | 753.9 | 540.9 | 378.3 | 274.6 | 229.8 | 210.2 |
| 22.5° | 2183.2 | 2127.1 | 1928.1 | 1381.6 | 938.8 | 655.8 | 409.2 | 269.0 | 210.2 | 182.2 | 168.2 |
| 25° | 2427.0 | 2370.9 | 2149.5 | 1457.3 | 910.8 | 571.7 | 316.7 | 210.2 | 171.0 | 154.1 | 145.7 |
| 27.5° | 2648.4 | 2578.3 | 2348.5 | 1569.4 | 877.2 | 496.0 | 263.4 | 182.2 | 154.1 | 134.5 | 128.9 |
| 30° | 2850.2 | 2768.9 | 2547.5 | 1664.7 | 829.5 | 428.8 | 227.0 | 168.2 | 142.9 | 126.1 | 117.7 |
| 32.5° | 3021.1 | 2956.7 | 2710.0 | 1732.0 | 790.3 | 392.4 | 201.8 | 148.5 | 123.3 | 109.3 | 103.7 |
| 35° | 3225.7 | 3164.0 | 2867.0 | 1788.0 | 765.1 | 375.5 | 185.0 | 140.1 | 114.9 | 100.9 | 89.7 |
| 37.5° | 3503.1 | 3413.5 | 3040.7 | 1838.4 | 737.1 | 361.5 | 171.0 | 131.7 | 109.3 | 92.5 | 84.1 |
| 40° | 3752.6 | 3654.5 | 3242.5 | 1874.9 | 723.0 | 350.3 | 168.2 | 126.1 | 103.7 | 86.9 | 78.5 |
| 42.5° | 3974.0 | 3884.3 | 3405.1 | 1888.9 | 711.8 | 330.7 | 165.3 | 123.3 | 103.7 | 84.1 | 72.9 |
| 45° | 4114.1 | 4032.8 | 3598.4 | 1925.3 | 711.8 | 316.7 | 154.1 | 123.3 | 100.9 | 81.3 | 70.1 |
| 47.5° | 4243.0 | 4164.5 | 3766.6 | 1964.6 | 700.6 | 305.5 | 140.1 | 134.5 | 100.9 | 78.5 | 64.5 |
| 50° | 4430.8 | 4369.1 | 3979.6 | 2082.3 | 681.0 | 288.7 | 126.1 | 131.7 | 103.7 | 75.7 | 64.5 |
| 52.5° | 4669.0 | 4641.0 | 4293.5 | 2242.0 | 653.0 | 257.8 | 112.1 | 123.3 | 103.7 | 72.9 | 61.7 |
| 55° | 4932.4 | 4921.2 | 4621.3 | 2387.7 | 619.4 | 221.4 | 103.7 | 112.1 | 100.9 | 67.3 | 56.1 |
| 57.5° | 5092.2 | 5092.2 | 4834.3 | 2469.0 | 591.3 | 176.6 | 92.5 | 92.5 | 98.1 | 61.7 | 50.4 |
| 60° | 5151.0 | 5089.4 | 4809.1 | 2460.6 | 543.7 | 145.7 | 84.1 | 75.7 | 103.7 | 53.2 | 44.8 |
| 62.5° | 5145.4 | 5010.9 | 4573.7 | 2326.1 | 479.2 | 134.5 | 72.9 | 64.5 | 75.7 | 47.6 | 39.2 |
| 65° | 4994.1 | 4831.5 | 4215.0 | 2026.2 | 431.6 | 134.5 | 61.7 | 53.2 | 50.4 | 42.0 | 30.8 |
| 67.5° | 4576.5 | 4478.4 | 3690.9 | 1717.9 | 398.0 | 134.5 | 53.2 | 44.8 | 39.2 | 33.6 | 28.0 |
| 70° | 3887.1 | 3758.2 | 2973.5 | 1325.6 | 372.7 | 134.5 | 44.8 | 39.2 | 36.4 | 28.0 | 22.4 |
| 72.5° | 2533.5 | 2460.6 | 1818.8 | 910.8 | 305.5 | 131.7 | 39.2 | 36.4 | 33.6 | 25.2 | 19.6 |
| 75° | 1378.8 | 1275.1 | 1000.5 | 325.1 | 218.6 | 95.3 | 33.6 | 30.8 | 25.2 | 22.4 | 16.8 |
| 77.5° | 596.9 | 574.5 | 510.1 | 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° | 1970.2 | 1970.2 | 1970.2 | 1970.2 | 1970.2 | 1970.2 | 1970.2 | 1970.2 | 1970.2 | 1970.2 | 1970.2 |
| 2.5° | 1645.1 | 1611.4 | 1586.2 | 1586.2 | 1619.9 | 1600.2 | 1622.7 | 1608.6 | 1647.9 | 1667.5 | 1661.9 |
| 5° | 1179.9 | 1193.9 | 1179.9 | 1202.3 | 1238.7 | 1258.3 | 1269.5 | 1297.6 | 1294.8 | 1306.0 | 1325.6 |
| 7.5° | 854.8 | 854.8 | 860.4 | 854.8 | 888.4 | 924.8 | 944.4 | 936.0 | 930.4 | 919.2 | 938.8 |
| 10° | 686.6 | 655.8 | 619.4 | 619.4 | 625.0 | 644.6 | 647.4 | 633.4 | 613.8 | 577.3 | 588.5 |
| 12.5° | 538.1 | 515.7 | 493.2 | 445.6 | 442.8 | 431.6 | 428.8 | 389.5 | 358.7 | 347.5 | 347.5 |
| 15° | 395.2 | 381.1 | 355.9 | 333.5 | 311.1 | 299.9 | 280.3 | 232.6 | 201.8 | 199.0 | 201.8 |
| 17.5° | 263.4 | 255.0 | 246.6 | 246.6 | 238.2 | 218.6 | 199.0 | 168.2 | 154.1 | 148.5 | 151.3 |
| 20° | 196.2 | 193.4 | 185.0 | 187.8 | 187.8 | 171.0 | 151.3 | 137.3 | 131.7 | 131.7 | 134.5 |
| 22.5° | 162.5 | 159.7 | 151.3 | 151.3 | 151.3 | 142.9 | 128.9 | 120.5 | 117.7 | 117.7 | 117.7 |
| 25° | 140.1 | 137.3 | 131.7 | 128.9 | 128.9 | 123.3 | 112.1 | 106.5 | 103.7 | 103.7 | 103.7 |
| 27.5° | 126.1 | 123.3 | 117.7 | 112.1 | 112.1 | 106.5 | 100.9 | 92.5 | 92.5 | 92.5 | 92.5 |
| 30° | 112.1 | 109.3 | 106.5 | 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 | 53.2 | 50.4 | 47.6 | 50.4 |
| 40° | 72.9 | 67.3 | 61.7 | 56.1 | 53.2 | 56.1 | 50.4 | 44.8 | 42.0 | 39.2 | 42.0 |
| 42.5° | 67.3 | 61.7 | 53.2 | 47.6 | 42.0 | 47.6 | 42.0 | 36.4 | 33.6 | 30.8 | 33.6 |
| 45° | 64.5 | 58.9 | 50.4 | 42.0 | 36.4 | 36.4 | 36.4 | 30.8 | 25.2 | 25.2 | 25.2 |
| 47.5° | 61.7 | 56.1 | 44.8 | 36.4 | 30.8 | 28.0 | 28.0 | 22.4 | 19.6 | 16.8 | 16.8 |
| 50° | 58.9 | 53.2 | 42.0 | 30.8 | 25.2 | 22.4 | 22.4 | 16.8 | 14.0 | 14.0 | 14.0 |
| 52.5° | 56.1 | 50.4 | 39.2 | 28.0 | 22.4 | 16.8 | 14.0 | 11.2 | 11.2 | 8.4 | 8.4 |
| 55° | 50.4 | 44.8 | 33.6 | 25.2 | 19.6 | 14.0 | 11.2 | 8.4 | 8.4 | 5.6 | 8.4 |
| 57.5° | 47.6 | 42.0 | 30.8 | 22.4 | 16.8 | 11.2 | 8.4 | 5.6 | 5.6 | 5.6 | 5.6 |
| 60° | 42.0 | 36.4 | 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° | 1970.2 | 1970.2 | 1970.2 | 1970.2 | 1970.2 | 1970.2 | 1970.2 | 1970.2 | 1970.2 | 1970.2 | 1970.2 |
| 2.5° | 1675.9 | 1720.7 | 1771.2 | 1802.0 | 1869.3 | 1928.1 | 1998.2 | 2059.8 | 2132.7 | 2171.9 | 2186.0 |
| 5° | 1345.2 | 1370.4 | 1434.9 | 1519.0 | 1594.6 | 1701.1 | 1824.4 | 1961.8 | 2110.3 | 2180.4 | 2230.8 |
| 7.5° | 927.6 | 950.1 | 1042.5 | 1121.0 | 1247.1 | 1384.4 | 1552.6 | 1740.4 | 1933.7 | 2031.8 | 2121.5 |
| 10° | 605.3 | 636.2 | 714.6 | 823.9 | 983.7 | 1151.8 | 1322.8 | 1519.0 | 1743.2 | 1858.1 | 1978.6 |
| 12.5° | 350.3 | 386.7 | 482.0 | 625.0 | 781.9 | 961.3 | 1137.8 | 1353.6 | 1603.0 | 1729.2 | 1852.5 |
| 15° | 201.8 | 215.8 | 271.8 | 398.0 | 574.5 | 793.1 | 1000.5 | 1233.1 | 1524.6 | 1664.7 | 1810.4 |
| 17.5° | 151.3 | 159.7 | 176.6 | 229.8 | 367.1 | 608.1 | 899.6 | 1196.7 | 1533.0 | 1720.7 | 1849.7 |
| 20° | 134.5 | 140.1 | 148.5 | 168.2 | 232.6 | 431.6 | 776.3 | 1171.5 | 1614.2 | 1855.3 | 2012.2 |
| 22.5° | 120.5 | 126.1 | 134.5 | 148.5 | 176.6 | 291.5 | 647.4 | 1168.6 | 1748.8 | 2054.2 | 2230.8 |
| 25° | 106.5 | 112.1 | 120.5 | 134.5 | 156.9 | 210.2 | 501.7 | 1160.2 | 1916.9 | 2272.8 | 2494.2 |
| 27.5° | 92.5 | 98.1 | 106.5 | 120.5 | 140.1 | 173.8 | 381.1 | 1135.0 | 2118.7 | 2508.3 | 2743.7 |
| 30° | 81.3 | 86.9 | 95.3 | 106.5 | 126.1 | 151.3 | 291.5 | 1093.0 | 2292.5 | 2718.4 | 2911.8 |
| 32.5° | 70.1 | 75.7 | 84.1 | 95.3 | 112.1 | 131.7 | 235.4 | 1003.3 | 2427.0 | 2883.8 | 3049.1 |
| 35° | 58.9 | 64.5 | 72.9 | 84.1 | 98.1 | 112.1 | 193.4 | 857.6 | 2564.3 | 3054.7 | 3214.5 |
| 37.5° | 50.4 | 56.1 | 61.7 | 72.9 | 86.9 | 100.9 | 159.7 | 765.1 | 2665.2 | 3267.7 | 3424.7 |
| 40° | 42.0 | 47.6 | 56.1 | 64.5 | 75.7 | 95.3 | 128.9 | 641.8 | 2766.1 | 3472.3 | 3618.0 |
| 42.5° | 33.6 | 39.2 | 47.6 | 58.9 | 70.1 | 84.1 | 103.7 | 529.7 | 2867.0 | 3657.3 | 3794.6 |
| 45° | 25.2 | 30.8 | 39.2 | 53.2 | 70.1 | 72.9 | 84.1 | 451.2 | 2892.2 | 3831.0 | 3948.7 |
| 47.5° | 19.6 | 22.4 | 30.8 | 44.8 | 67.3 | 64.5 | 70.1 | 392.4 | 2939.8 | 3968.4 | 4100.1 |
| 50° | 14.0 | 16.8 | 25.2 | 42.0 | 58.9 | 53.2 | 61.7 | 369.9 | 3007.1 | 4074.9 | 4144.9 |
| 52.5° | 11.2 | 14.0 | 19.6 | 36.4 | 47.6 | 47.6 | 56.1 | 392.4 | 3094.0 | 4201.0 | 4259.8 |
| 55° | 8.4 | 11.2 | 16.8 | 25.2 | 36.4 | 42.0 | 53.2 | 423.2 | 3262.1 | 4422.4 | 4411.2 |
| 57.5° | 5.6 | 8.4 | 14.0 | 19.6 | 28.0 | 36.4 | 50.4 | 470.8 | 3433.1 | 4671.8 | 4683.0 |
| 60° | 5.6 | 8.4 | 11.2 | 16.8 | 25.2 | 30.8 | 44.8 | 476.4 | 3405.1 | 4708.2 | 4873.6 |
| 62.5° | 2.8 | 5.6 | 11.2 | 14.0 | 19.6 | 25.2 | 39.2 | 400.8 | 3136.0 | 4531.7 | 4772.7 |
| 65° | 2.8 | 5.6 | 8.4 | 14.0 | 16.8 | 22.4 | 30.8 | 255.0 | 2729.6 | 4217.8 | 4537.3 |
| 67.5° | 2.8 | 5.6 | 8.4 | 11.2 | 14.0 | 19.6 | 25.2 | 131.7 | 2314.9 | 3892.7 | 4201.0 |
| 70° | 2.8 | 5.6 | 8.4 | 11.2 | 14.0 | 16.8 | 22.4 | 64.5 | 1754.4 | 3281.7 | 3679.7 |
| 72.5° | 2.8 | 5.6 | 8.4 | 11.2 | 11.2 | 14.0 | 19.6 | 44.8 | 1126.6 | 2466.2 | 2850.2 |
| 75° | 2.8 | 5.6 | 5.6 | 8.4 | 11.2 | 14.0 | 16.8 | 30.8 | 728.7 | 1659.1 | 2160.7 |
| 77.5° | 2.8 | 5.6 | 5.6 | 8.4 | 11.2 | 14.0 | 19.6 | 28.0 | 532.5 | 1137.8 | 1493.7 |
| 80° | 2.8 | 5.6 | 5.6 | 8.4 | 11.2 | 11.2 | 14.0 | 19.6 | 285.9 | 753.9 | 950.1 |
| 82.5° | 5.6 | 5.6 | 8.4 | 8.4 | 8.4 | 11.2 | 14.0 | 14.0 | 148.5 | 482.0 | 641.8 |
| 85° | 5.6 | 5.6 | 8.4 | 8.4 | 11.2 | 11.2 | 11.2 | 14.0 | 64.5 | 201.8 | 319.5 |
| 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: P437883
 CATALOG NUMBER: ISC-SA1F-750-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1970.2 | 1970.2 | 1970.2 | 1970.2 | 1970.2 | 1970.2 | 1970.2 | 1970.2 | 1970.2 | 1970.2 |
| 2.5° | 2228.0 | 2264.4 | 2281.2 | 2267.2 | 2256.0 | 2222.4 | 2174.8 | 2127.1 | 2087.9 | 2085.1 |
| 5° | 2345.7 | 2424.2 | 2485.8 | 2455.0 | 2413.0 | 2314.9 | 2194.4 | 2059.8 | 2009.4 | 1987.0 |
| 7.5° | 2320.5 | 2491.4 | 2595.1 | 2567.1 | 2483.0 | 2298.1 | 2110.3 | 1933.7 | 1852.5 | 1824.4 |
| 10° | 2205.6 | 2435.4 | 2572.7 | 2564.3 | 2485.8 | 2267.2 | 2034.6 | 1821.6 | 1734.8 | 1712.3 |
| 12.5° | 2099.1 | 2326.1 | 2457.8 | 2463.4 | 2435.4 | 2233.6 | 1998.2 | 1771.2 | 1667.5 | 1656.3 |
| 15° | 2043.0 | 2236.4 | 2314.9 | 2331.7 | 2342.9 | 2230.8 | 2031.8 | 1804.8 | 1695.5 | 1670.3 |
| 17.5° | 2054.2 | 2146.7 | 2166.3 | 2152.3 | 2228.0 | 2233.6 | 2127.1 | 1922.5 | 1799.2 | 1768.4 |
| 20° | 2121.5 | 2087.9 | 2023.4 | 2037.4 | 2121.5 | 2244.8 | 2270.0 | 2129.9 | 1989.8 | 1950.6 |
| 22.5° | 2250.4 | 2085.1 | 1956.2 | 1944.9 | 2054.2 | 2264.4 | 2424.2 | 2351.3 | 2205.6 | 2183.2 |
| 25° | 2441.0 | 2127.1 | 1928.1 | 1905.7 | 2001.0 | 2284.0 | 2581.1 | 2583.9 | 2469.0 | 2427.0 |
| 27.5° | 2626.0 | 2194.4 | 1925.3 | 1902.9 | 2001.0 | 2309.3 | 2687.6 | 2813.7 | 2693.2 | 2648.4 |
| 30° | 2732.5 | 2272.8 | 1970.2 | 1928.1 | 2037.4 | 2331.7 | 2757.7 | 2995.9 | 2889.4 | 2850.2 |
| 32.5° | 2830.5 | 2356.9 | 2017.8 | 1967.4 | 2107.5 | 2393.3 | 2822.1 | 3161.2 | 3068.8 | 3021.1 |
| 35° | 2911.8 | 2455.0 | 2107.5 | 2029.0 | 2211.2 | 2483.0 | 2900.6 | 3343.4 | 3284.5 | 3225.7 |
| 37.5° | 2990.3 | 2553.1 | 2233.6 | 2188.8 | 2384.9 | 2611.9 | 3004.3 | 3534.0 | 3562.0 | 3503.1 |
| 40° | 3102.4 | 2665.2 | 2449.4 | 2413.0 | 2640.0 | 2808.1 | 3130.4 | 3724.5 | 3817.0 | 3752.6 |
| 42.5° | 3208.9 | 2808.1 | 2668.0 | 2701.6 | 2948.2 | 3035.1 | 3273.3 | 3898.3 | 4002.0 | 3974.0 |
| 45° | 3307.0 | 2984.7 | 2984.7 | 3066.0 | 3281.7 | 3284.5 | 3382.6 | 4018.8 | 4128.1 | 4114.1 |
| 47.5° | 3435.9 | 3203.3 | 3312.6 | 3536.8 | 3651.7 | 3500.3 | 3500.3 | 4133.7 | 4282.2 | 4243.0 |
| 50° | 3562.0 | 3494.7 | 3747.0 | 3951.5 | 4052.4 | 3761.0 | 3620.8 | 4287.8 | 4464.4 | 4430.8 |
| 52.5° | 3699.3 | 3777.8 | 4153.3 | 4355.1 | 4414.0 | 4058.0 | 3803.0 | 4442.0 | 4669.0 | 4669.0 |
| 55° | 3920.7 | 4018.8 | 4582.1 | 4750.3 | 4834.3 | 4304.7 | 4035.6 | 4660.6 | 4918.4 | 4932.4 |
| 57.5° | 4147.7 | 4251.4 | 4823.1 | 5036.1 | 5145.4 | 4669.0 | 4335.5 | 4952.0 | 5095.0 | 5092.2 |
| 60° | 4385.9 | 4495.2 | 5010.9 | 5221.1 | 5380.8 | 5041.7 | 4691.4 | 5218.3 | 5179.0 | 5151.0 |
| 62.5° | 4680.2 | 4680.2 | 5081.0 | 5179.0 | 5372.4 | 5277.1 | 5092.2 | 5369.6 | 5209.9 | 5145.4 |
| 65° | 4823.1 | 4778.3 | 4879.2 | 4806.3 | 5027.7 | 5209.9 | 5397.6 | 5375.2 | 5100.6 | 4994.1 |
| 67.5° | 4747.5 | 4475.6 | 4301.9 | 4192.6 | 4240.2 | 4554.1 | 5263.1 | 5109.0 | 4657.8 | 4576.5 |
| 70° | 4229.0 | 3578.8 | 3416.3 | 3242.5 | 3150.0 | 3475.1 | 4548.5 | 4512.0 | 3962.8 | 3887.1 |
| 72.5° | 3447.1 | 2583.9 | 2191.6 | 2368.1 | 2278.4 | 2645.6 | 3727.3 | 3183.7 | 2600.7 | 2533.5 |
| 75° | 2861.4 | 1922.5 | 1429.3 | 1432.1 | 1446.1 | 1737.6 | 2724.0 | 1891.7 | 1429.3 | 1378.8 |
| 77.5° | 2071.1 | 1353.6 | 1154.6 | 1034.1 | 1045.3 | 1109.8 | 1418.1 | 807.1 | 658.6 | 596.9 |
| 80° | 1263.9 | 838.0 | 933.2 | 829.5 | 801.5 | 616.6 | 610.9 | 117.7 | 78.5 | 78.5 |
| 82.5° | 689.4 | 532.5 | 496.0 | 179.4 | 277.4 | 336.3 | 277.4 | 5.6 | 2.8 | 2.8 |
| 85° | 350.3 | 213.0 | 100.9 | 30.8 | 36.4 | 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 |

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

Report Prepared for

Cooper Lighting Solutions

McGRAW-EDISON

Report Number: SP1-1908-441-4-R4

Test Date: 10/02/2019

Luminaire Tested: SA1C-750-U-5WQ

Data in this report applies to families of products SA1C-760-U-5WQ .

Test Information

Test Method: LM-79-2008
 Report Number: SP1-1908-441-4-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-750-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): | 4884 | CRI (Ra): | 73.5 | R9: | -28.4 |
| CIE u': | 0.2101 | R1: | 70.5 | R10: | 48.6 |
| CIE v': | 0.4904 | R2: | 77.7 | R11: | 73.2 |
| Duv: | 0.0037 | R3: | 84.6 | R12: | 50.7 |
| CIE x: | 0.3493 | R4: | 74.7 | R13: | 71.2 |
| CIE y: | 0.3624 | R5: | 71.9 | R14: | 91.4 |
| CIE z: | 0.2884 | R6: | 70.7 | | |
| Peak Wavelength (nm): | 444 | R7: | 81.2 | | |
| Dominant Wavelength (nm): | 571 | R8: | 56.9 | | |
| Purity: | 13.7 | | | | |
| Rf: | 74.9 | | | | |
| Rg: | 96.3 | | | | |



Test Conditions

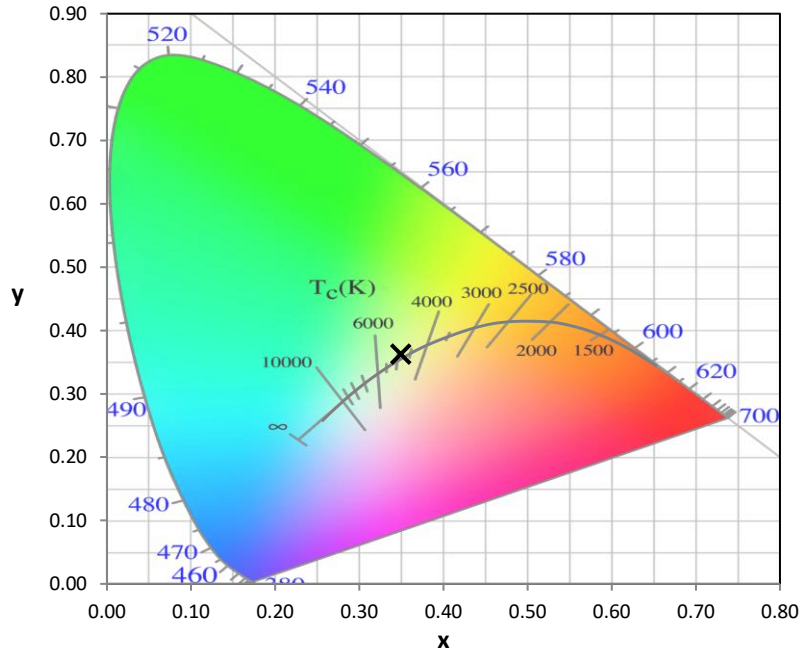
Stabilization Time: 240M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 25.0./44%
 Sphere Temperature (°C): 25.7

REPORT NUMBER: SP1-1908-441-4-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: SP1-1908-441-4-R4

CIE 1931 Chromaticity Diagram



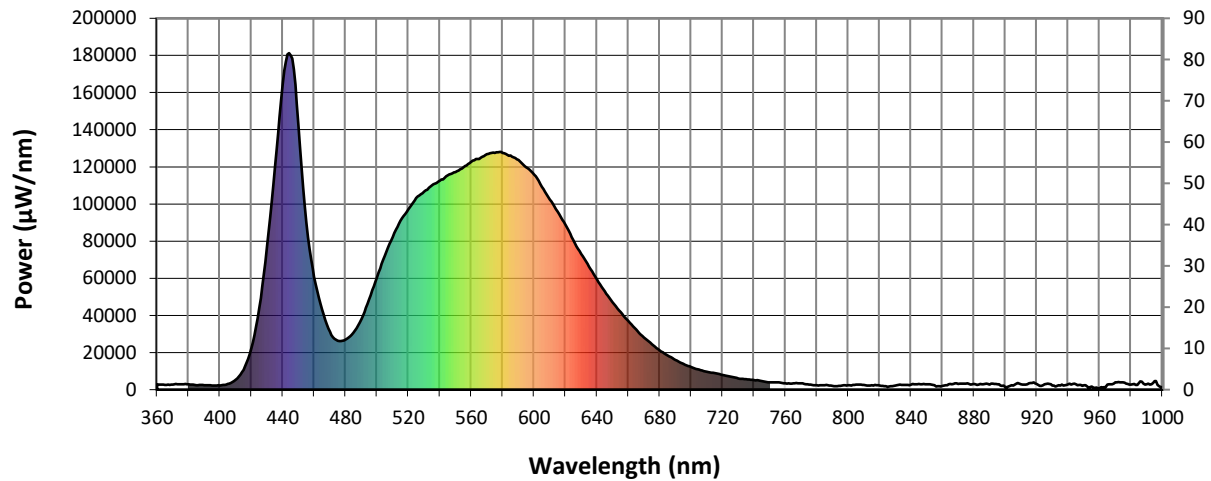
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-1908-441-4-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 | 2945 | NR | 490 | 37941 | NR | 620 | 88803 | NR | 750 | 3908 | NR | 880 | 2997 | NR |
| 365 | 2596 | NR | 495 | 48525 | NR | 625 | 80578 | NR | 755 | 3988 | NR | 885 | 2927 | NR |
| 370 | 2732 | NR | 500 | 60609 | NR | 630 | 73127 | NR | 760 | 3335 | NR | 890 | 2649 | NR |
| 375 | 2894 | NR | 505 | 72036 | NR | 635 | 66244 | NR | 765 | 3438 | NR | 895 | 2828 | NR |
| 380 | 2822 | NR | 510 | 82168 | NR | 640 | 59440 | NR | 770 | 3427 | NR | 900 | 1407 | NR |
| 385 | 2394 | NR | 515 | 90898 | NR | 645 | 52864 | NR | 775 | 2759 | NR | 905 | 2224 | NR |
| 390 | 2370 | NR | 520 | 97142 | NR | 650 | 47085 | NR | 780 | 2340 | NR | 910 | 2905 | NR |
| 395 | 2267 | NR | 525 | 103255 | NR | 655 | 41789 | NR | 785 | 2412 | NR | 915 | 3350 | NR |
| 400 | 2262 | NR | 530 | 106697 | NR | 660 | 37064 | NR | 790 | 1999 | NR | 920 | 3114 | NR |
| 405 | 3000 | NR | 535 | 110081 | NR | 665 | 32299 | NR | 795 | 2054 | NR | 925 | 2834 | NR |
| 410 | 5324 | NR | 540 | 112494 | NR | 670 | 28142 | NR | 800 | 2331 | NR | 930 | 2271 | NR |
| 415 | 10725 | NR | 545 | 115513 | NR | 675 | 24505 | NR | 805 | 2648 | NR | 935 | 2228 | NR |
| 420 | 22128 | NR | 550 | 117203 | NR | 680 | 21162 | NR | 810 | 2485 | NR | 940 | 2833 | NR |
| 425 | 44095 | NR | 555 | 119753 | NR | 685 | 18400 | NR | 815 | 2409 | NR | 945 | 2941 | NR |
| 430 | 77002 | NR | 560 | 122602 | NR | 690 | 16065 | NR | 820 | 2221 | NR | 950 | 2323 | NR |
| 435 | 119881 | NR | 565 | 124314 | NR | 695 | 13860 | NR | 825 | 1562 | NR | 955 | 1667 | NR |
| 440 | 164454 | NR | 570 | 126775 | NR | 700 | 12177 | NR | 830 | 2249 | NR | 960 | 749 | NR |
| 445 | 179997 | NR | 575 | 127511 | NR | 705 | 10757 | NR | 835 | 2573 | NR | 965 | 2669 | NR |
| 450 | 142822 | NR | 580 | 127577 | NR | 710 | 9601 | NR | 840 | 2764 | NR | 970 | 3968 | NR |
| 455 | 90008 | NR | 585 | 126153 | NR | 715 | 8944 | NR | 845 | 3109 | NR | 975 | 3886 | NR |
| 460 | 60557 | NR | 590 | 123678 | NR | 720 | 7947 | NR | 850 | 2963 | NR | 980 | 2788 | NR |
| 465 | 43305 | NR | 595 | 119774 | NR | 725 | 7062 | NR | 855 | 2336 | NR | 985 | 3496 | NR |
| 470 | 31089 | NR | 600 | 115733 | NR | 730 | 6004 | NR | 860 | 2118 | NR | 990 | 2913 | NR |
| 475 | 26278 | NR | 605 | 109231 | NR | 735 | 5594 | NR | 865 | 3144 | NR | 995 | 4659 | NR |
| 480 | 27060 | NR | 610 | 102408 | NR | 740 | 5165 | NR | 870 | 3069 | NR | 1000 | 1308 | NR |
| 485 | 30698 | NR | 615 | 96015 | NR | 745 | 4687 | NR | 875 | 3311 | NR | | | |

REPORT NUMBER: SP1-1908-441-4-R4

Scotopic Flux vs. Wavelength



Scotopic Lumens: 13493.5 S/P: 1.77

| 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 | 2945 | NR | 490 | 37941 | NR | 620 | 88803 | NR | 750 | 3908 | NR | 880 | 2997 | NR |
| 365 | 2596 | NR | 495 | 48525 | NR | 625 | 80578 | NR | 755 | 3988 | NR | 885 | 2927 | NR |
| 370 | 2732 | NR | 500 | 60609 | NR | 630 | 73127 | NR | 760 | 3335 | NR | 890 | 2649 | NR |
| 375 | 2894 | NR | 505 | 72036 | NR | 635 | 66244 | NR | 765 | 3438 | NR | 895 | 2828 | NR |
| 380 | 2822 | NR | 510 | 82168 | NR | 640 | 59440 | NR | 770 | 3427 | NR | 900 | 1407 | NR |
| 385 | 2394 | NR | 515 | 90898 | NR | 645 | 52864 | NR | 775 | 2759 | NR | 905 | 2224 | NR |
| 390 | 2370 | NR | 520 | 97142 | NR | 650 | 47085 | NR | 780 | 2340 | NR | 910 | 2905 | NR |
| 395 | 2267 | NR | 525 | 103255 | NR | 655 | 41789 | NR | 785 | 2412 | NR | 915 | 3350 | NR |
| 400 | 2262 | NR | 530 | 106697 | NR | 660 | 37064 | NR | 790 | 1999 | NR | 920 | 3114 | NR |
| 405 | 3000 | NR | 535 | 110081 | NR | 665 | 32299 | NR | 795 | 2054 | NR | 925 | 2834 | NR |
| 410 | 5324 | NR | 540 | 112494 | NR | 670 | 28142 | NR | 800 | 2331 | NR | 930 | 2271 | NR |
| 415 | 10725 | NR | 545 | 115513 | NR | 675 | 24505 | NR | 805 | 2648 | NR | 935 | 2228 | NR |
| 420 | 22128 | NR | 550 | 117203 | NR | 680 | 21162 | NR | 810 | 2485 | NR | 940 | 2833 | NR |
| 425 | 44095 | NR | 555 | 119753 | NR | 685 | 18400 | NR | 815 | 2409 | NR | 945 | 2941 | NR |
| 430 | 77002 | NR | 560 | 122602 | NR | 690 | 16065 | NR | 820 | 2221 | NR | 950 | 2323 | NR |
| 435 | 119881 | NR | 565 | 124314 | NR | 695 | 13860 | NR | 825 | 1562 | NR | 955 | 1667 | NR |
| 440 | 164454 | NR | 570 | 126775 | NR | 700 | 12177 | NR | 830 | 2249 | NR | 960 | 749 | NR |
| 445 | 179997 | NR | 575 | 127511 | NR | 705 | 10757 | NR | 835 | 2573 | NR | 965 | 2669 | NR |
| 450 | 142822 | NR | 580 | 127577 | NR | 710 | 9601 | NR | 840 | 2764 | NR | 970 | 3968 | NR |
| 455 | 90008 | NR | 585 | 126153 | NR | 715 | 8944 | NR | 845 | 3109 | NR | 975 | 3886 | NR |
| 460 | 60557 | NR | 590 | 123678 | NR | 720 | 7947 | NR | 850 | 2963 | NR | 980 | 2788 | NR |
| 465 | 43305 | NR | 595 | 119774 | NR | 725 | 7062 | NR | 855 | 2336 | NR | 985 | 3496 | NR |
| 470 | 31089 | NR | 600 | 115733 | NR | 730 | 6004 | NR | 860 | 2118 | NR | 990 | 2913 | NR |
| 475 | 26278 | NR | 605 | 109231 | NR | 735 | 5594 | NR | 865 | 3144 | NR | 995 | 4659 | NR |
| 480 | 27060 | NR | 610 | 102408 | NR | 740 | 5165 | NR | 870 | 3069 | NR | 1000 | 1308 | NR |
| 485 | 30698 | NR | 615 | 96015 | NR | 745 | 4687 | NR | 875 | 3311 | NR | | | |

REPORT NUMBER: SP1-1908-441-4-R4

Melanopic Flux vs. Wavelength



Melanopic Lumens: 5378.9 M/P: 0.71

| 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 | 2945 | NR | 490 | 37941 | NR | 620 | 88803 | NR | 750 | 3908 | NR | 880 | 2997 | NR |
| 365 | 2596 | NR | 495 | 48525 | NR | 625 | 80578 | NR | 755 | 3988 | NR | 885 | 2927 | NR |
| 370 | 2732 | NR | 500 | 60609 | NR | 630 | 73127 | NR | 760 | 3335 | NR | 890 | 2649 | NR |
| 375 | 2894 | NR | 505 | 72036 | NR | 635 | 66244 | NR | 765 | 3438 | NR | 895 | 2828 | NR |
| 380 | 2822 | NR | 510 | 82168 | NR | 640 | 59440 | NR | 770 | 3427 | NR | 900 | 1407 | NR |
| 385 | 2394 | NR | 515 | 90898 | NR | 645 | 52864 | NR | 775 | 2759 | NR | 905 | 2224 | NR |
| 390 | 2370 | NR | 520 | 97142 | NR | 650 | 47085 | NR | 780 | 2340 | NR | 910 | 2905 | NR |
| 395 | 2267 | NR | 525 | 103255 | NR | 655 | 41789 | NR | 785 | 2412 | NR | 915 | 3350 | NR |
| 400 | 2262 | NR | 530 | 106697 | NR | 660 | 37064 | NR | 790 | 1999 | NR | 920 | 3114 | NR |
| 405 | 3000 | NR | 535 | 110081 | NR | 665 | 32299 | NR | 795 | 2054 | NR | 925 | 2834 | NR |
| 410 | 5324 | NR | 540 | 112494 | NR | 670 | 28142 | NR | 800 | 2331 | NR | 930 | 2271 | NR |
| 415 | 10725 | NR | 545 | 115513 | NR | 675 | 24505 | NR | 805 | 2648 | NR | 935 | 2228 | NR |
| 420 | 22128 | NR | 550 | 117203 | NR | 680 | 21162 | NR | 810 | 2485 | NR | 940 | 2833 | NR |
| 425 | 44095 | NR | 555 | 119753 | NR | 685 | 18400 | NR | 815 | 2409 | NR | 945 | 2941 | NR |
| 430 | 77002 | NR | 560 | 122602 | NR | 690 | 16065 | NR | 820 | 2221 | NR | 950 | 2323 | NR |
| 435 | 119881 | NR | 565 | 124314 | NR | 695 | 13860 | NR | 825 | 1562 | NR | 955 | 1667 | NR |
| 440 | 164454 | NR | 570 | 126775 | NR | 700 | 12177 | NR | 830 | 2249 | NR | 960 | 749 | NR |
| 445 | 179997 | NR | 575 | 127511 | NR | 705 | 10757 | NR | 835 | 2573 | NR | 965 | 2669 | NR |
| 450 | 142822 | NR | 580 | 127577 | NR | 710 | 9601 | NR | 840 | 2764 | NR | 970 | 3968 | NR |
| 455 | 90008 | NR | 585 | 126153 | NR | 715 | 8944 | NR | 845 | 3109 | NR | 975 | 3886 | NR |
| 460 | 60557 | NR | 590 | 123678 | NR | 720 | 7947 | NR | 850 | 2963 | NR | 980 | 2788 | NR |
| 465 | 43305 | NR | 595 | 119774 | NR | 725 | 7062 | NR | 855 | 2336 | NR | 985 | 3496 | NR |
| 470 | 31089 | NR | 600 | 115733 | NR | 730 | 6004 | NR | 860 | 2118 | NR | 990 | 2913 | NR |
| 475 | 26278 | NR | 605 | 109231 | NR | 735 | 5594 | NR | 865 | 3144 | NR | 995 | 4659 | NR |
| 480 | 27060 | NR | 610 | 102408 | NR | 740 | 5165 | NR | 870 | 3069 | NR | 1000 | 1308 | NR |
| 485 | 30698 | NR | 615 | 96015 | NR | 745 | 4687 | NR | 875 | 3311 | NR | | | |

REPORT NUMBER: SP1-1908-441-4-R4

TM-30-18

Summary

$R_f = 74.9$
 $R_g = 96.3$
 CIE $R_a = 73.5$
 $R_g = -28.4$



Color Vector Graphics

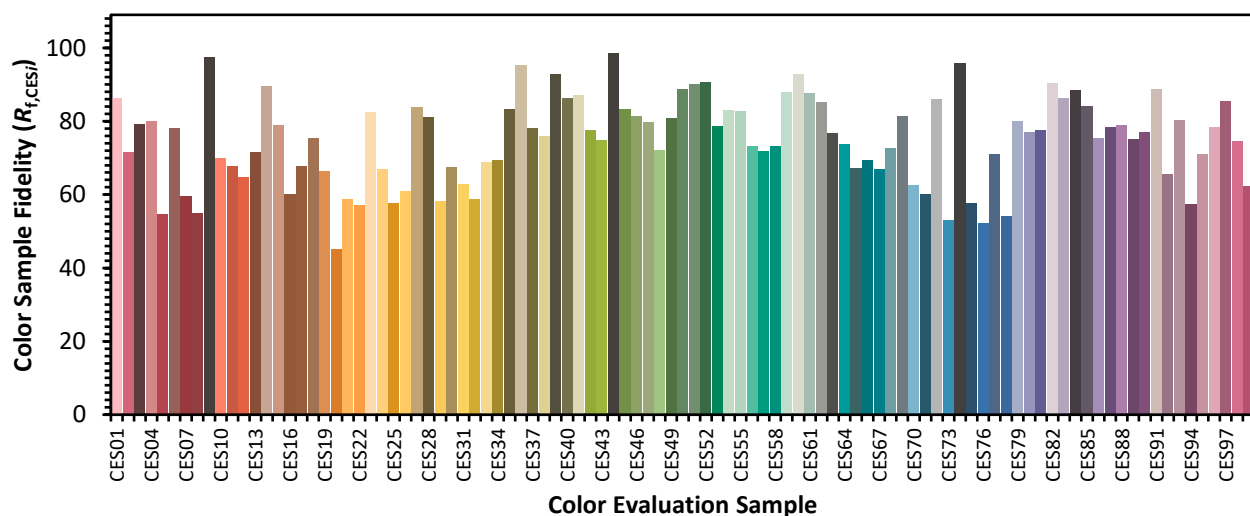


REPORT NUMBER: SP1-1908-441-4-R4

TM-30-18

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

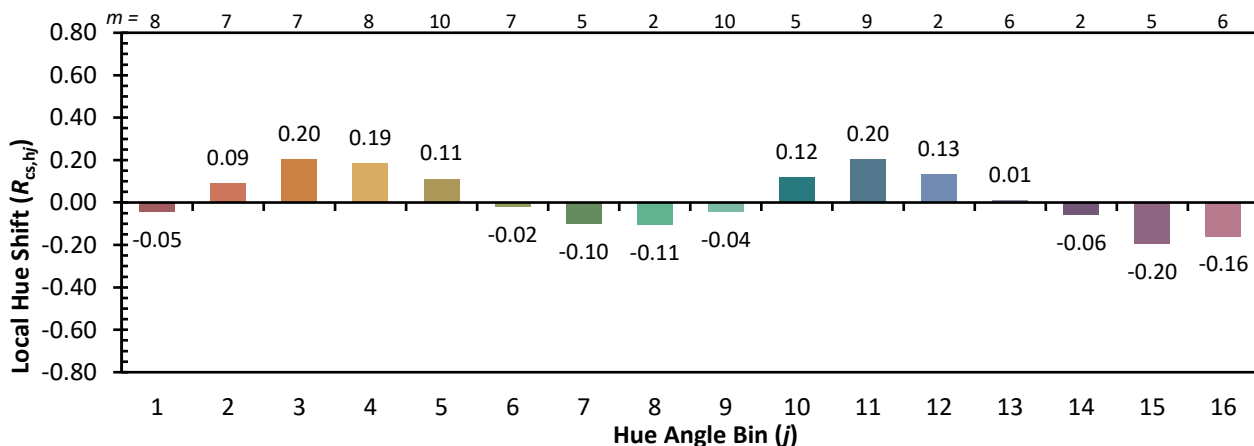
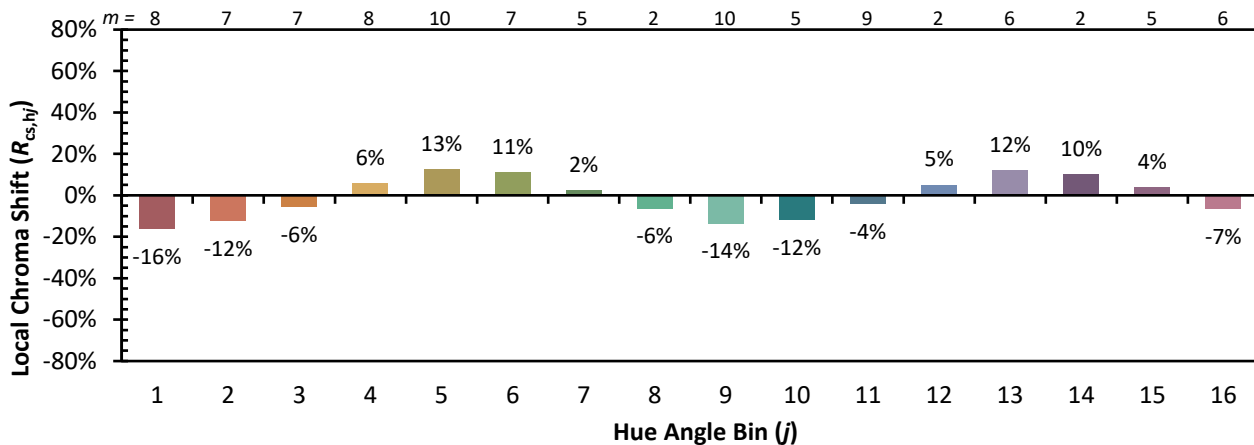
| | | | |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 61 | CES51 = 90 | CES76 = 52 |
| CES02 = 60 | CES27 = 84 | CES52 = 91 | CES77 = 71 |
| CES03 = 30 | CES28 = 81 | CES53 = 79 | CES78 = 54 |
| CES04 = 69 | CES29 = 58 | CES54 = 83 | CES79 = 80 |
| CES05 = 46 | CES30 = 67 | CES55 = 83 | CES80 = 77 |
| CES06 = 50 | CES31 = 63 | CES56 = 73 | CES81 = 77 |
| CES07 = 39 | CES32 = 59 | CES57 = 72 | CES82 = 90 |
| CES08 = 38 | CES33 = 69 | CES58 = 73 | CES83 = 86 |
| CES09 = 29 | CES34 = 69 | CES59 = 88 | CES84 = 88 |
| CES10 = 73 | CES35 = 83 | CES60 = 93 | CES85 = 84 |
| CES11 = 56 | CES36 = 95 | CES61 = 88 | CES86 = 75 |
| CES12 = 61 | CES37 = 78 | CES62 = 85 | CES87 = 78 |
| CES13 = 41 | CES38 = 76 | CES63 = 77 | CES88 = 79 |
| CES14 = 74 | CES39 = 93 | CES64 = 74 | CES89 = 75 |
| CES15 = 70 | CES40 = 86 | CES65 = 67 | CES90 = 77 |
| CES16 = 46 | CES41 = 87 | CES66 = 69 | CES91 = 89 |
| CES17 = 49 | CES42 = 78 | CES67 = 67 | CES92 = 66 |
| CES18 = 55 | CES43 = 75 | CES68 = 73 | CES93 = 80 |
| CES19 = 71 | CES44 = 99 | CES69 = 81 | CES94 = 57 |
| CES20 = 64 | CES45 = 83 | CES70 = 63 | CES95 = 71 |
| CES21 = 85 | CES46 = 81 | CES71 = 60 | CES96 = 78 |
| CES22 = 77 | CES47 = 80 | CES72 = 86 | CES97 = 85 |
| CES23 = 91 | CES48 = 72 | CES73 = 53 | CES98 = 75 |
| CES24 = 90 | CES49 = 81 | CES74 = 96 | CES99 = 62 |
| CES25 = 71 | CES50 = 89 | CES75 = 58 | |



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Measure Comparisons



(END OF REPORT)