

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: P324246

Luminaire Tested: **GLEON-SA2C-760-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324246  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA2C-760-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10729 lumens  
Efficiency: N/A  
Efficacy: 94.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

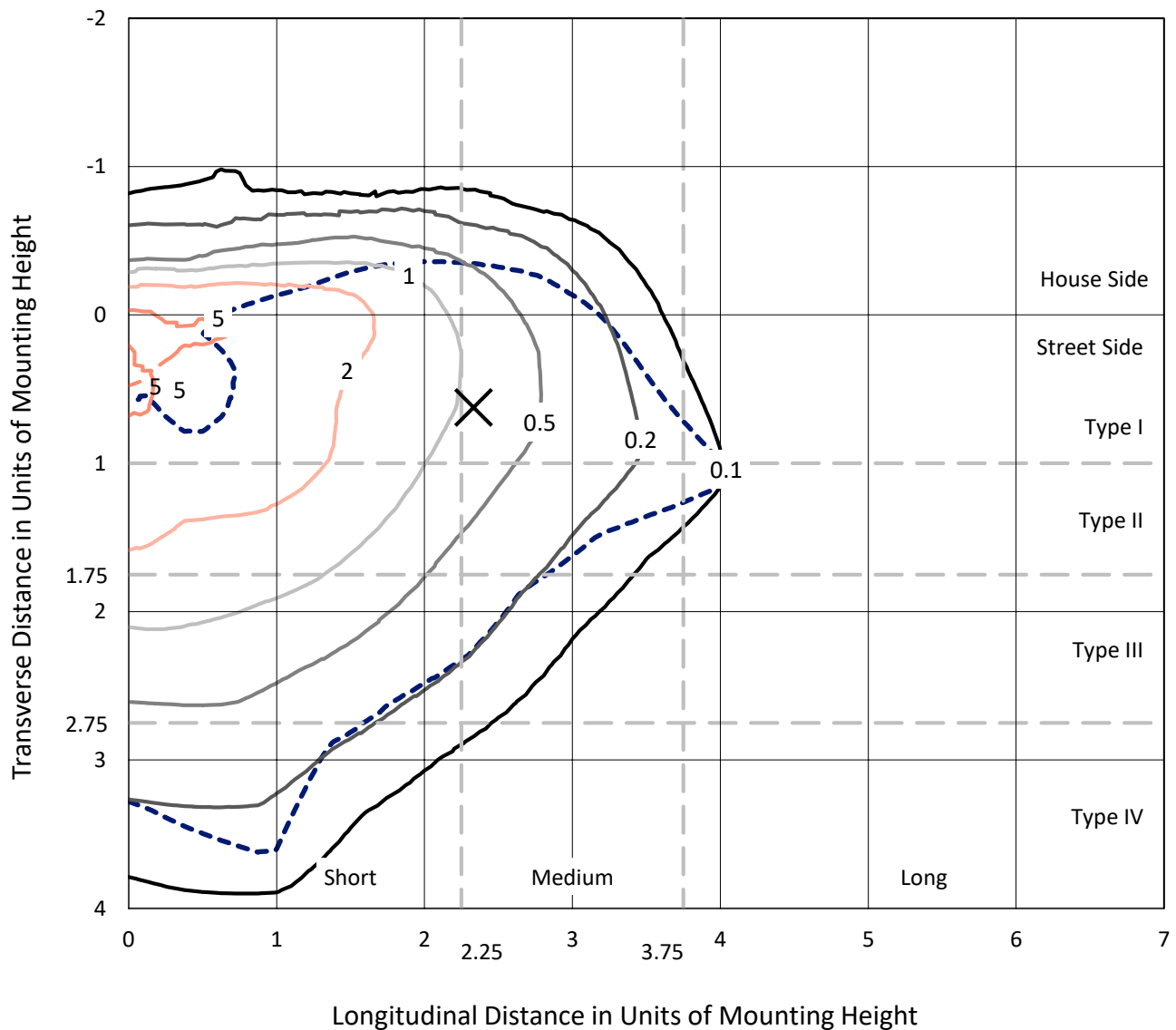
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

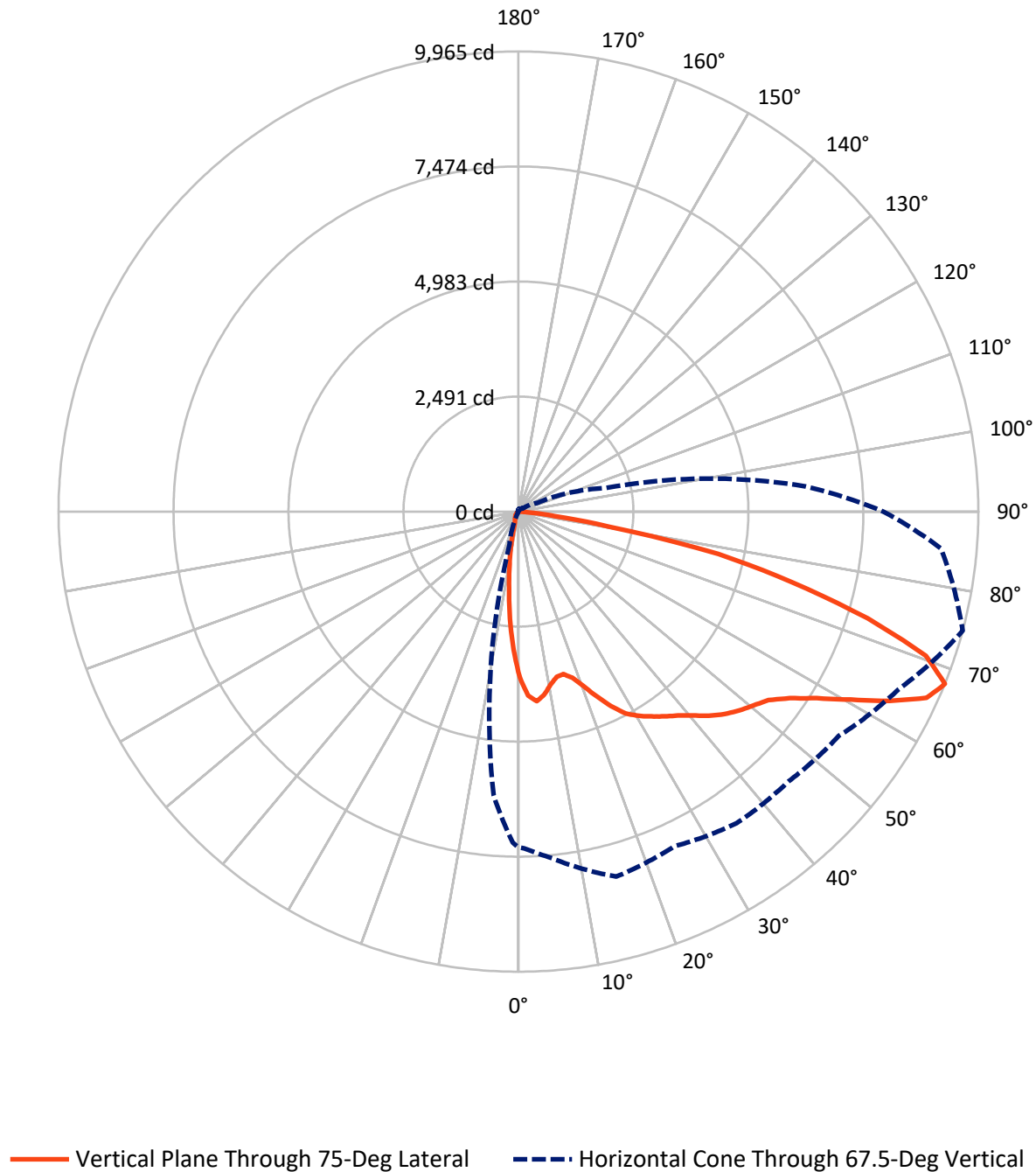
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1610.0   | 0.0    | 1610.0  |
|                    | % Fixture | 15.0     | 0.0    | 15.0    |
| <b>Street Side</b> | Lumens    | 9119.0   | 0.0    | 9119.0  |
|                    | % Fixture | 85.0     | 0.0    | 85.0    |
| <b>Total</b>       | Lumens    | 10729.0  | 0.0    | 10729.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 273.0   | 2.5       |
| 10°-20°   | 537.6   | 5.0       |
| 20°-30°   | 760.6   | 7.1       |
| 30°-40°   | 1118.2  | 10.4      |
| 40°-50°   | 1607.3  | 15.0      |
| 50°-60°   | 2262.6  | 21.1      |
| 60°-70°   | 2642.5  | 24.6      |
| 70°-80°   | 1348.1  | 12.6      |
| 80°-90°   | 179.1   | 1.7       |
| 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°    | 10729.0 | 100.0     |
| 0°-180°   | 10729.0 | 100.0     |

**Coefficient of Utilization**



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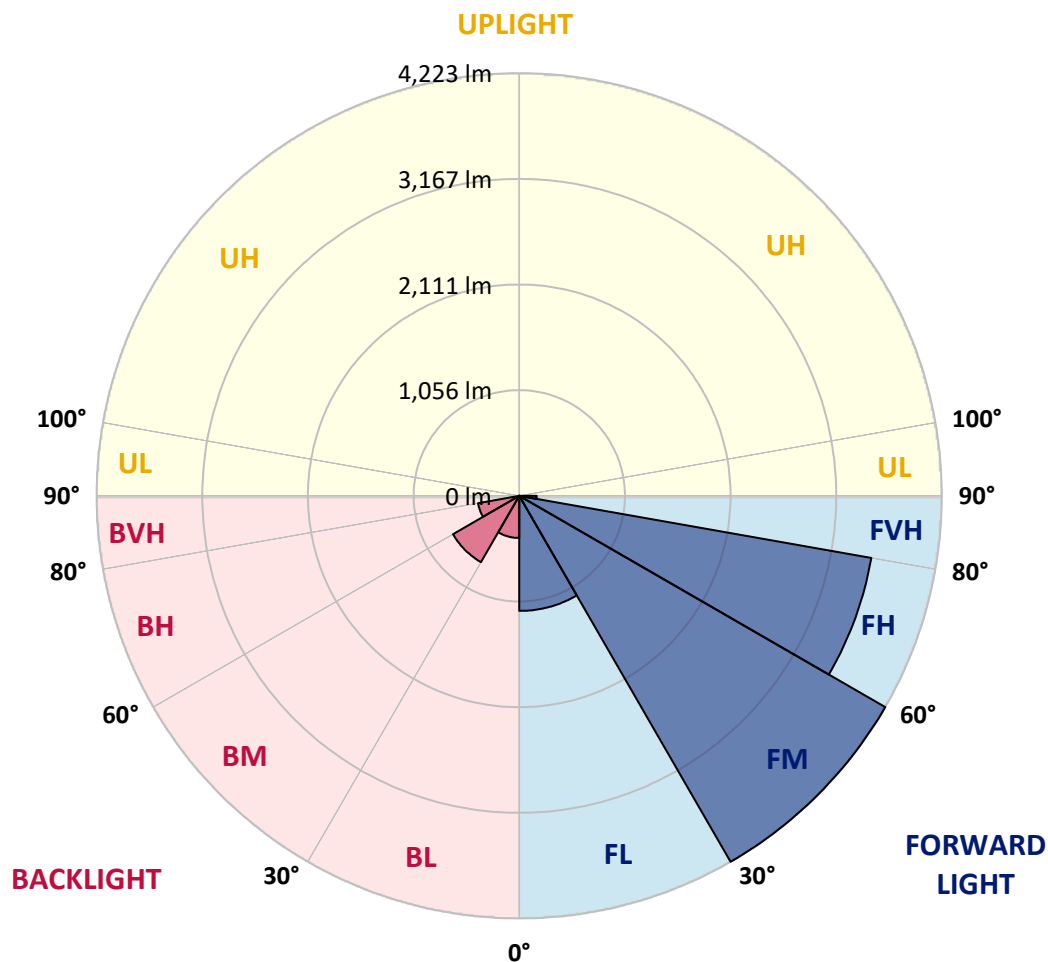
CATALOG NUMBER: GLEON-SA2C-760-U-SLL-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1150.1 | 10.7      |                         |      |         |
| FM   | (30°-60°)   | 4222.7 | 39.4      |                         |      |         |
| FH   | (60°-80°)   | 3572.4 | 33.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 173.7  | 1.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 421.0  | 3.9       | B1/500                  |      |         |
| BM   | (30°-60°)   | 765.3  | 7.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 418.2  | 3.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 5.4    | 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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3599.4 | 3599.4 | 3599.4 | 3599.4 | 3599.4 | 3599.4 | 3599.4 | 3599.4 | 3599.4 | 3599.4 | 3599.4 |
| 2.5°  | 3901.8 | 3907.9 | 3939.4 | 4012.6 | 4092.4 | 4098.5 | 4152.4 | 4097.0 | 4078.2 | 3988.7 | 3896.2 |
| 5°    | 3931.3 | 3954.7 | 4062.9 | 4277.9 | 4464.4 | 4524.4 | 4567.1 | 4458.3 | 4344.0 | 4125.4 | 3892.1 |
| 7.5°  | 3693.9 | 3733.1 | 3903.3 | 4306.9 | 4640.3 | 4787.7 | 4815.6 | 4645.4 | 4365.3 | 4005.5 | 3654.8 |
| 10°   | 3390.0 | 3434.7 | 3640.1 | 4136.1 | 4594.0 | 4846.6 | 4885.3 | 4662.1 | 4259.6 | 3811.3 | 3398.1 |
| 12.5° | 3144.0 | 3196.4 | 3406.3 | 3944.0 | 4435.0 | 4714.5 | 4790.7 | 4605.7 | 4168.1 | 3673.6 | 3222.8 |
| 15°   | 3030.7 | 3090.6 | 3311.2 | 3820.0 | 4258.6 | 4478.7 | 4541.7 | 4461.9 | 4117.3 | 3651.7 | 3182.1 |
| 17.5° | 3095.7 | 3160.8 | 3388.5 | 3830.6 | 4092.9 | 4186.9 | 4237.8 | 4270.3 | 4117.3 | 3783.4 | 3301.1 |
| 20°   | 3362.6 | 3432.7 | 3673.6 | 3938.9 | 3955.7 | 3920.6 | 3975.0 | 4089.3 | 4165.1 | 4033.4 | 3586.7 |
| 22.5° | 3731.5 | 3813.9 | 4085.8 | 4124.4 | 3888.6 | 3755.9 | 3763.1 | 3942.5 | 4252.0 | 4350.6 | 3983.1 |
| 25°   | 4181.3 | 4282.0 | 4558.5 | 4400.9 | 3916.5 | 3657.8 | 3655.3 | 3821.5 | 4336.9 | 4668.2 | 4424.8 |
| 27.5° | 4628.1 | 4738.9 | 4981.8 | 4738.4 | 4031.9 | 3640.1 | 3635.0 | 3784.9 | 4419.7 | 4950.8 | 4907.1 |
| 30°   | 5002.7 | 5110.4 | 5319.8 | 4982.8 | 4156.4 | 3681.7 | 3657.3 | 3824.0 | 4469.0 | 5134.3 | 5258.8 |
| 32.5° | 5307.6 | 5394.0 | 5563.3 | 5151.1 | 4289.6 | 3762.5 | 3709.7 | 3928.7 | 4552.9 | 5289.3 | 5582.1 |
| 35°   | 5643.1 | 5734.0 | 5801.6 | 5311.2 | 4439.0 | 3878.9 | 3803.2 | 4094.9 | 4682.0 | 5446.9 | 5936.3 |
| 37.5° | 6025.8 | 6116.2 | 6108.1 | 5457.5 | 4628.6 | 4071.6 | 4023.3 | 4358.2 | 4882.7 | 5602.9 | 6331.7 |
| 40°   | 6400.3 | 6492.8 | 6426.8 | 5617.6 | 4851.2 | 4389.2 | 4353.6 | 4753.6 | 5151.6 | 5802.6 | 6795.2 |
| 42.5° | 6751.0 | 6851.2 | 6709.9 | 5769.1 | 5116.5 | 4789.7 | 4850.7 | 5262.9 | 5488.0 | 6048.6 | 7194.7 |
| 45°   | 7033.6 | 7135.8 | 6947.2 | 5916.5 | 5396.0 | 5275.6 | 5459.1 | 5827.0 | 5892.6 | 6256.5 | 7464.6 |
| 47.5° | 7238.9 | 7335.5 | 7111.9 | 6063.9 | 5753.8 | 5869.7 | 6189.4 | 6418.6 | 6258.0 | 6436.9 | 7656.2 |
| 50°   | 7370.1 | 7445.3 | 7160.2 | 6248.4 | 6223.5 | 6563.0 | 6950.3 | 7062.1 | 6602.1 | 6599.6 | 7889.0 |
| 52.5° | 7453.4 | 7487.5 | 7195.7 | 6441.0 | 6713.4 | 7317.7 | 7695.3 | 7730.4 | 6956.4 | 6778.5 | 8202.6 |
| 55°   | 7740.6 | 7768.0 | 7447.8 | 6674.3 | 7118.5 | 7978.9 | 8369.3 | 8336.8 | 7357.4 | 7128.7 | 8572.6 |
| 57.5° | 8230.5 | 8259.5 | 7968.8 | 7009.7 | 7446.3 | 8387.6 | 8857.7 | 8916.2 | 7827.5 | 7620.6 | 8969.0 |
| 60°   | 8476.5 | 8530.4 | 8426.7 | 7434.6 | 7764.0 | 8648.8 | 9190.6 | 9377.1 | 8415.0 | 8269.2 | 9353.2 |
| 62.5° | 8253.4 | 8331.7 | 8482.1 | 7905.8 | 8079.6 | 8792.7 | 9294.3 | 9542.3 | 9016.8 | 9024.9 | 9590.1 |
| 65°   | 7808.2 | 7870.7 | 8125.8 | 8164.0 | 8262.6 | 8774.9 | 9038.1 | 9311.6 | 9385.3 | 9719.2 | 9577.4 |
| 67.5° | 7270.5 | 7293.8 | 7510.3 | 8184.3 | 7997.2 | 8240.2 | 8268.6 | 8470.9 | 9094.0 | 9965.2 | 9192.6 |
| 70°   | 6496.4 | 6509.1 | 6698.2 | 7503.7 | 6872.5 | 6925.9 | 6883.7 | 6924.8 | 7818.3 | 9366.0 | 8221.4 |
| 72.5° | 5228.3 | 5260.3 | 5529.2 | 6231.6 | 5006.7 | 4852.7 | 5184.1 | 5165.8 | 6021.2 | 7912.9 | 6106.1 |
| 75°   | 3849.5 | 3904.9 | 4310.9 | 5019.4 | 3514.0 | 3178.6 | 3420.5 | 3485.0 | 4280.4 | 6120.8 | 3818.4 |
| 77.5° | 2695.2 | 2736.4 | 3129.8 | 3689.9 | 2543.3 | 2272.9 | 2185.5 | 2262.2 | 2825.3 | 4427.8 | 1923.7 |
| 80°   | 1552.7 | 1567.9 | 1819.0 | 2130.6 | 1713.8 | 1960.8 | 1776.3 | 1829.2 | 1693.0 | 1970.0 | 827.4  |
| 82.5° | 1016.0 | 1018.5 | 1116.6 | 1268.1 | 1067.3 | 1240.1 | 917.9  | 1173.5 | 1041.4 | 791.3  | 269.4  |
| 85°   | 548.9  | 552.0  | 647.5  | 900.1  | 604.3  | 341.5  | 200.8  | 412.2  | 643.9  | 181.4  | 73.7   |
| 87.5° | 60.5   | 55.4   | 195.2  | 327.3  | 167.7  | 31.0   | 10.7   | 46.3   | 103.2  | 11.7   | 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°    | 3599.4 | 3599.4 | 3599.4 | 3599.4 | 3599.4 | 3599.4 | 3599.4 | 3599.4 | 3599.4 | 3599.4 | 3599.4 |
| 2.5°  | 3848.9 | 3806.8 | 3701.6 | 3590.2 | 3500.8 | 3416.9 | 3332.6 | 3229.4 | 3149.6 | 3133.3 | 3106.9 |
| 5°    | 3766.6 | 3632.9 | 3412.4 | 3190.8 | 3012.4 | 2787.2 | 2644.4 | 2533.1 | 2424.3 | 2417.7 | 2395.9 |
| 7.5°  | 3478.9 | 3303.1 | 2992.6 | 2686.1 | 2435.0 | 2220.5 | 2004.0 | 1859.2 | 1745.3 | 1705.2 | 1681.3 |
| 10°   | 3202.5 | 3004.7 | 2617.0 | 2267.3 | 2043.1 | 1853.6 | 1701.1 | 1549.6 | 1412.4 | 1317.9 | 1275.2 |
| 12.5° | 3009.3 | 2790.8 | 2363.3 | 2062.0 | 1901.3 | 1721.4 | 1535.4 | 1346.3 | 1188.3 | 1074.4 | 1004.8 |
| 15°   | 2934.6 | 2701.3 | 2278.5 | 1980.6 | 1782.4 | 1554.7 | 1316.9 | 1100.9 | 925.5  | 822.3  | 759.8  |
| 17.5° | 3023.6 | 2752.2 | 2271.9 | 1881.5 | 1604.5 | 1321.4 | 1058.7 | 803.5  | 638.4  | 560.1  | 519.9  |
| 20°   | 3249.2 | 2913.8 | 2269.3 | 1760.1 | 1393.1 | 1045.0 | 717.1  | 528.6  | 428.5  | 384.7  | 365.9  |
| 22.5° | 3568.4 | 3120.1 | 2289.6 | 1640.1 | 1173.0 | 746.6  | 495.0  | 388.3  | 337.0  | 313.6  | 302.9  |
| 25°   | 3979.1 | 3409.8 | 2347.1 | 1531.3 | 966.2  | 557.0  | 385.8  | 325.3  | 289.2  | 270.9  | 263.3  |
| 27.5° | 4416.7 | 3743.2 | 2436.5 | 1436.8 | 797.9  | 444.2  | 330.4  | 278.5  | 252.6  | 239.9  | 232.8  |
| 30°   | 4777.5 | 4129.5 | 2527.0 | 1331.6 | 676.0  | 387.3  | 302.4  | 254.1  | 224.1  | 216.0  | 209.4  |
| 32.5° | 5093.1 | 4421.7 | 2591.0 | 1236.6 | 596.2  | 344.1  | 273.4  | 227.2  | 206.9  | 191.1  | 184.0  |
| 35°   | 5419.9 | 4665.2 | 2589.0 | 1170.0 | 541.3  | 311.6  | 249.0  | 203.3  | 178.9  | 160.6  | 155.0  |
| 37.5° | 5773.7 | 4940.1 | 2544.8 | 1113.1 | 517.4  | 285.6  | 235.3  | 190.6  | 166.2  | 147.9  | 140.8  |
| 40°   | 6187.9 | 5228.8 | 2499.6 | 1059.7 | 510.8  | 264.8  | 225.7  | 180.4  | 154.5  | 136.7  | 129.6  |
| 42.5° | 6591.4 | 5489.1 | 2459.9 | 1020.0 | 482.3  | 264.3  | 217.0  | 172.8  | 145.4  | 128.1  | 119.9  |
| 45°   | 6914.2 | 5731.5 | 2452.3 | 996.2  | 452.3  | 273.4  | 212.4  | 167.7  | 138.2  | 121.0  | 113.3  |
| 47.5° | 7182.5 | 5994.8 | 2501.1 | 979.4  | 423.9  | 249.5  | 223.6  | 164.2  | 131.6  | 114.9  | 106.2  |
| 50°   | 7501.7 | 6318.0 | 2615.9 | 951.9  | 393.9  | 224.6  | 256.2  | 165.2  | 126.0  | 108.8  | 99.6   |
| 52.5° | 7946.9 | 6765.3 | 2784.7 | 905.7  | 352.7  | 201.8  | 252.1  | 166.2  | 119.9  | 102.2  | 93.0   |
| 55°   | 8446.0 | 7323.8 | 2966.1 | 828.9  | 295.3  | 171.8  | 216.0  | 159.1  | 108.3  | 95.0   | 86.4   |
| 57.5° | 8970.5 | 7830.5 | 3073.9 | 737.5  | 234.8  | 148.4  | 172.8  | 144.9  | 95.6   | 85.4   | 79.8   |
| 60°   | 9052.9 | 8023.2 | 3024.6 | 625.1  | 186.5  | 129.1  | 128.1  | 147.4  | 85.4   | 75.2   | 71.2   |
| 62.5° | 8848.0 | 7781.2 | 2786.2 | 525.0  | 156.0  | 113.3  | 105.2  | 128.6  | 77.3   | 67.1   | 63.0   |
| 65°   | 8454.2 | 7127.1 | 2399.9 | 473.2  | 144.9  | 97.1   | 87.4   | 90.5   | 67.6   | 58.4   | 54.9   |
| 67.5° | 7906.3 | 6254.0 | 1970.5 | 443.7  | 143.3  | 83.4   | 74.7   | 68.6   | 58.4   | 50.8   | 47.8   |
| 70°   | 6786.1 | 5210.0 | 1572.0 | 427.4  | 139.3  | 70.1   | 63.0   | 55.9   | 48.8   | 43.2   | 40.7   |
| 72.5° | 4994.5 | 3691.9 | 1222.8 | 409.6  | 140.3  | 55.9   | 54.9   | 46.3   | 39.1   | 33.5   | 32.5   |
| 75°   | 2885.8 | 2109.2 | 802.0  | 331.9  | 133.7  | 43.2   | 45.7   | 32.5   | 27.4   | 23.4   | 23.4   |
| 77.5° | 1538.0 | 1286.4 | 305.5  | 138.2  | 48.8   | 27.4   | 25.9   | 19.3   | 17.3   | 14.2   | 13.7   |
| 80°   | 670.4  | 566.2  | 92.0   | 38.6   | 26.9   | 14.7   | 9.7    | 8.6    | 7.6    | 6.1    | 5.6    |
| 82.5° | 237.4  | 204.8  | 30.0   | 18.8   | 11.7   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 53.9   | 38.6   | 0.0    | 4.6    | 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):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3599.4 | 3599.4 | 3599.4 | 3599.4 | 3599.4 | 3599.4 | 3599.4 | 3599.4 | 3599.4 | 3599.4 | 3599.4 |
| 2.5°  | 3053.0 | 3041.9 | 2975.8 | 2978.3 | 2990.0 | 3006.8 | 2967.1 | 2985.4 | 3034.7 | 3082.0 | 3099.8 |
| 5°    | 2360.8 | 2363.3 | 2323.2 | 2348.1 | 2370.5 | 2385.7 | 2321.7 | 2322.7 | 2361.8 | 2415.2 | 2443.1 |
| 7.5°  | 1663.5 | 1659.4 | 1661.5 | 1720.9 | 1763.1 | 1732.6 | 1756.5 | 1673.7 | 1678.7 | 1716.9 | 1688.4 |
| 10°   | 1236.6 | 1180.7 | 1149.1 | 1193.9 | 1240.1 | 1223.3 | 1182.2 | 1155.2 | 1174.0 | 1216.2 | 1213.2 |
| 12.5° | 971.8  | 891.5  | 844.2  | 812.2  | 850.3  | 818.8  | 817.8  | 794.4  | 769.0  | 773.5  | 841.1  |
| 15°   | 730.9  | 672.4  | 616.5  | 565.2  | 564.2  | 553.5  | 499.1  | 438.1  | 433.0  | 436.1  | 471.1  |
| 17.5° | 502.7  | 482.8  | 460.0  | 415.7  | 404.1  | 359.3  | 306.5  | 282.1  | 269.9  | 275.5  | 287.2  |
| 20°   | 353.2  | 345.6  | 348.1  | 324.3  | 307.5  | 264.8  | 233.8  | 224.1  | 222.1  | 227.7  | 233.3  |
| 22.5° | 292.7  | 279.0  | 277.5  | 266.8  | 250.1  | 219.1  | 202.3  | 196.7  | 194.1  | 199.2  | 203.3  |
| 25°   | 256.2  | 242.4  | 236.8  | 230.2  | 212.4  | 191.1  | 180.9  | 175.9  | 173.3  | 176.4  | 178.9  |
| 27.5° | 225.7  | 213.0  | 207.9  | 203.3  | 186.0  | 170.8  | 162.6  | 158.1  | 156.0  | 157.0  | 159.6  |
| 30°   | 202.8  | 191.6  | 185.0  | 179.4  | 164.7  | 154.0  | 146.9  | 142.3  | 140.3  | 140.3  | 142.8  |
| 32.5° | 178.9  | 172.8  | 166.7  | 159.6  | 145.9  | 138.8  | 131.6  | 126.6  | 124.5  | 125.0  | 127.1  |
| 35°   | 148.9  | 146.9  | 148.4  | 141.8  | 130.1  | 124.0  | 116.9  | 111.3  | 109.8  | 110.3  | 112.3  |
| 37.5° | 132.1  | 123.0  | 128.6  | 125.0  | 118.4  | 110.3  | 101.1  | 96.1   | 93.5   | 95.0   | 96.1   |
| 40°   | 121.5  | 110.3  | 106.2  | 109.8  | 108.8  | 95.6   | 87.4   | 82.3   | 80.3   | 80.8   | 81.8   |
| 42.5° | 112.3  | 99.1   | 90.0   | 89.5   | 95.6   | 83.4   | 74.7   | 70.1   | 67.6   | 67.6   | 68.6   |
| 45°   | 103.7  | 89.5   | 78.3   | 69.6   | 80.3   | 70.6   | 62.5   | 58.4   | 55.4   | 55.4   | 55.9   |
| 47.5° | 97.1   | 81.3   | 68.1   | 56.9   | 60.5   | 57.9   | 51.3   | 47.3   | 44.2   | 44.2   | 44.7   |
| 50°   | 91.0   | 73.2   | 59.0   | 47.8   | 45.2   | 47.8   | 41.7   | 37.1   | 35.1   | 34.6   | 35.6   |
| 52.5° | 84.4   | 65.1   | 50.3   | 40.7   | 35.6   | 36.1   | 32.5   | 29.5   | 26.9   | 26.9   | 28.0   |
| 55°   | 77.8   | 58.4   | 43.7   | 34.6   | 29.5   | 26.9   | 25.9   | 23.9   | 21.9   | 21.9   | 22.9   |
| 57.5° | 71.2   | 51.3   | 37.1   | 28.5   | 23.4   | 21.3   | 21.3   | 19.8   | 18.3   | 18.3   | 19.3   |
| 60°   | 65.1   | 44.2   | 30.5   | 23.4   | 18.3   | 17.8   | 18.3   | 16.8   | 15.8   | 15.8   | 16.8   |
| 62.5° | 57.9   | 37.6   | 24.9   | 19.3   | 14.7   | 14.2   | 15.8   | 14.7   | 13.7   | 13.7   | 14.7   |
| 65°   | 49.3   | 32.0   | 19.8   | 14.7   | 11.2   | 11.2   | 13.2   | 12.2   | 11.2   | 11.2   | 12.2   |
| 67.5° | 41.7   | 26.9   | 15.2   | 10.7   | 8.1    | 8.6    | 11.2   | 10.2   | 9.7    | 9.7    | 10.7   |
| 70°   | 34.6   | 20.8   | 10.7   | 6.6    | 4.6    | 6.6    | 8.6    | 8.6    | 8.6    | 8.6    | 9.7    |
| 72.5° | 25.9   | 14.2   | 6.1    | 2.5    | 2.0    | 4.6    | 7.1    | 8.1    | 7.6    | 7.6    | 9.1    |
| 75°   | 16.8   | 8.1    | 2.0    | 0.0    | 0.0    | 2.5    | 5.6    | 6.6    | 6.6    | 6.1    | 7.6    |
| 77.5° | 9.7    | 2.5    | 0.0    | 0.0    | 0.0    | 0.0    | 3.6    | 3.0    | 2.5    | 2.0    | 3.6    |
| 80°   | 2.5    | 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: P324246

CATALOG NUMBER: GLEON-SA2C-760-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 285°   | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 359°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3599.4 | 3599.4 | 3599.4 | 3599.4 | 3599.4 | 3599.4 | 3599.4 | 3599.4 | 3599.4 | 3599.4 |
| 2.5°  | 3171.5 | 3231.4 | 3315.8 | 3405.2 | 3543.0 | 3652.3 | 3759.5 | 3851.5 | 3887.1 | 3901.8 |
| 5°    | 2510.2 | 2598.2 | 2721.7 | 2880.2 | 3128.8 | 3352.4 | 3579.1 | 3807.3 | 3906.4 | 3931.3 |
| 7.5°  | 1801.2 | 1913.5 | 2070.6 | 2269.3 | 2560.5 | 2850.2 | 3166.9 | 3501.8 | 3655.3 | 3693.9 |
| 10°   | 1333.1 | 1470.4 | 1650.3 | 1859.7 | 2137.7 | 2435.5 | 2780.6 | 3163.3 | 3338.7 | 3390.0 |
| 12.5° | 945.8  | 1131.4 | 1372.3 | 1626.9 | 1867.8 | 2133.6 | 2482.8 | 2904.6 | 3088.6 | 3144.0 |
| 15°   | 555.5  | 734.9  | 1020.0 | 1361.1 | 1669.6 | 1939.0 | 2293.7 | 2772.0 | 2974.8 | 3030.7 |
| 17.5° | 318.7  | 408.1  | 623.6  | 1003.8 | 1422.6 | 1795.6 | 2234.2 | 2805.0 | 3043.9 | 3095.7 |
| 20°   | 243.4  | 271.9  | 359.3  | 646.5  | 1133.9 | 1654.8 | 2234.2 | 2992.0 | 3286.3 | 3362.6 |
| 22.5° | 213.0  | 233.8  | 269.4  | 385.8  | 834.5  | 1503.9 | 2260.2 | 3262.4 | 3647.2 | 3731.5 |
| 25°   | 189.1  | 207.9  | 238.4  | 290.2  | 569.2  | 1324.5 | 2321.7 | 3594.3 | 4072.1 | 4181.3 |
| 27.5° | 169.2  | 187.0  | 214.5  | 254.1  | 389.3  | 1108.0 | 2404.5 | 3983.6 | 4540.7 | 4628.1 |
| 30°   | 151.5  | 168.2  | 193.1  | 221.1  | 300.4  | 862.5  | 2475.2 | 4350.6 | 4908.6 | 5002.7 |
| 32.5° | 134.7  | 149.9  | 172.3  | 193.1  | 246.0  | 637.8  | 2482.8 | 4641.3 | 5214.1 | 5307.6 |
| 35°   | 118.9  | 132.7  | 153.0  | 169.2  | 203.8  | 503.7  | 2364.4 | 4893.4 | 5519.5 | 5643.1 |
| 37.5° | 103.7  | 116.9  | 134.7  | 146.9  | 179.4  | 410.7  | 2183.4 | 5174.4 | 5911.4 | 6025.8 |
| 40°   | 89.5   | 101.1  | 119.4  | 127.6  | 169.8  | 315.6  | 1986.7 | 5469.2 | 6295.6 | 6400.3 |
| 42.5° | 76.2   | 87.4   | 105.2  | 121.0  | 148.9  | 235.8  | 1774.3 | 5745.7 | 6641.2 | 6751.0 |
| 45°   | 63.5   | 75.2   | 93.0   | 128.1  | 123.5  | 176.4  | 1547.1 | 5929.2 | 6914.2 | 7033.6 |
| 47.5° | 51.3   | 64.5   | 88.9   | 122.0  | 98.6   | 129.6  | 1367.2 | 6103.0 | 7121.0 | 7238.9 |
| 50°   | 41.2   | 54.4   | 100.1  | 108.8  | 80.8   | 99.1   | 1292.0 | 6258.5 | 7256.7 | 7370.1 |
| 52.5° | 33.5   | 45.7   | 94.5   | 83.4   | 67.6   | 81.8   | 1332.6 | 6510.6 | 7382.3 | 7453.4 |
| 55°   | 28.0   | 36.1   | 56.9   | 57.9   | 57.4   | 69.6   | 1382.9 | 6872.5 | 7707.0 | 7740.6 |
| 57.5° | 24.4   | 29.0   | 39.6   | 44.7   | 48.3   | 62.0   | 1384.0 | 7391.9 | 8209.7 | 8230.5 |
| 60°   | 20.8   | 25.4   | 33.0   | 36.1   | 41.7   | 55.4   | 1333.6 | 7573.4 | 8407.4 | 8476.5 |
| 62.5° | 18.3   | 22.4   | 27.4   | 30.0   | 35.1   | 49.8   | 1215.7 | 7310.6 | 8136.0 | 8253.4 |
| 65°   | 16.3   | 20.3   | 22.9   | 25.4   | 31.0   | 44.7   | 1021.6 | 6785.1 | 7685.7 | 7808.2 |
| 67.5° | 14.2   | 17.8   | 20.3   | 22.9   | 28.0   | 39.6   | 752.2  | 6174.7 | 7168.8 | 7270.5 |
| 70°   | 12.7   | 15.8   | 18.3   | 20.3   | 24.4   | 33.5   | 456.4  | 5239.5 | 6454.2 | 6496.4 |
| 72.5° | 12.2   | 14.2   | 16.8   | 18.3   | 21.3   | 29.5   | 231.3  | 3850.5 | 5159.7 | 5228.3 |
| 75°   | 10.7   | 12.7   | 15.2   | 16.3   | 18.8   | 25.4   | 94.0   | 2529.0 | 3739.2 | 3849.5 |
| 77.5° | 8.6    | 11.7   | 13.7   | 14.7   | 16.3   | 20.8   | 47.8   | 1616.2 | 2624.1 | 2695.2 |
| 80°   | 3.0    | 8.6    | 11.7   | 12.2   | 13.7   | 15.2   | 31.5   | 884.9  | 1522.2 | 1552.7 |
| 82.5° | 0.0    | 5.6    | 9.1    | 8.6    | 9.7    | 11.7   | 20.3   | 420.8  | 1004.8 | 1016.0 |
| 85°   | 0.0    | 2.5    | 7.1    | 5.6    | 4.1    | 8.1    | 7.1    | 92.0   | 527.1  | 548.9  |
| 87.5° | 0.0    | 0.0    | 0.5    | 2.5    | 2.0    | 3.0    | 1.0    | 0.5    | 47.8   | 60.5   |
| 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: SP1-1908-441-9-R4

Test Date: 10/23/2019

Luminaire Tested: SA1C-760-U-5WQ

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

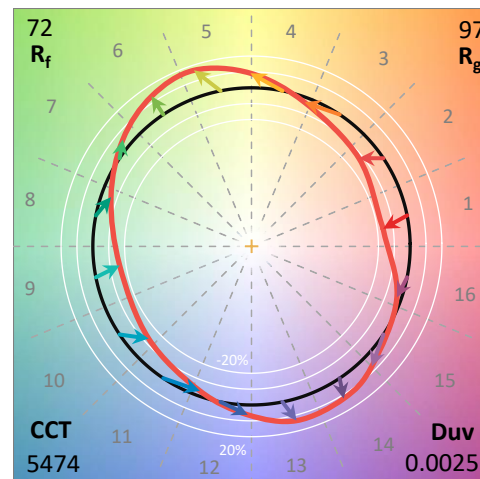
### Test Information

Test Method: LM-79-2008  
 Report Number: SP1-1908-441-9-R4  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry:  $4\pi$   
 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 |      |       |
| CIE u':                   | 0.2052 | R1:       | 70.6 | R9:  | -27.1 |
| CIE v':                   | 0.4804 | R2:       | 74.6 | R10: | 40.8  |
| Duv:                      | 0.0025 | R3:       | 78.3 | R11: | 74.6  |
| CIE x:                    | 0.3330 | R4:       | 73.8 | R12: | 50.4  |
| CIE y:                    | 0.3466 | R5:       | 72.4 | R13: | 70.0  |
| CIE z:                    | 0.3204 | R6:       | 67.5 | R14: | 87.8  |
| 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

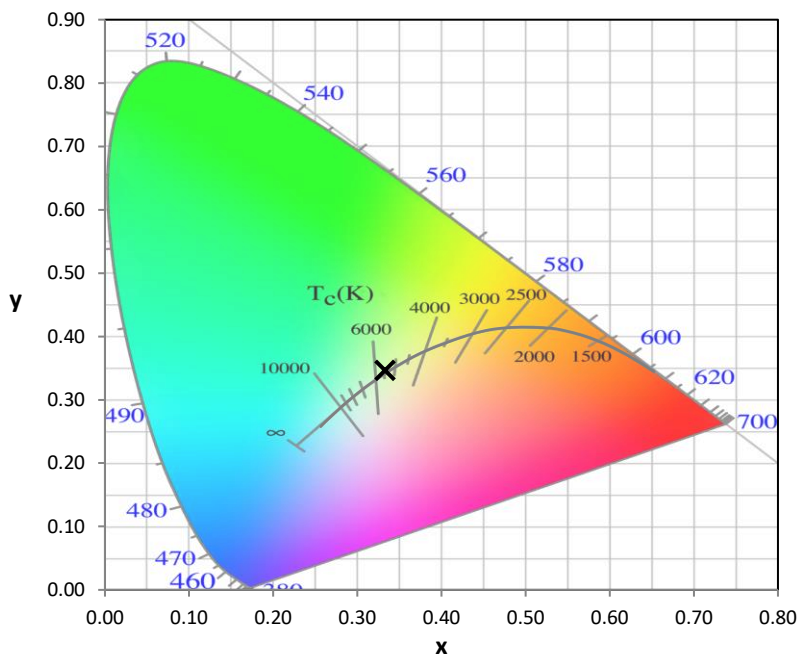
Stabilization Time: 240M  
 Operation Time: 12H  
 Room Temperature (°C) / RH%: 24.6/31%  
 Sphere Temperature (°C): 25.9

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

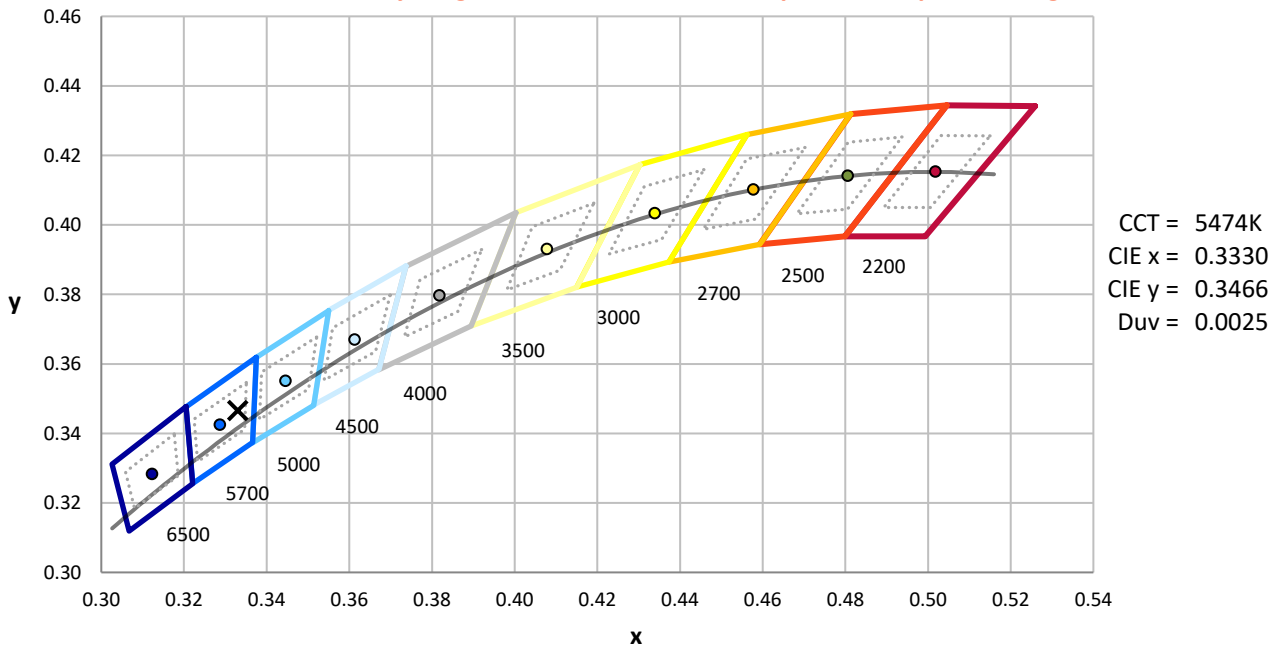
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| 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

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

**Photopic Flux vs. Wavelength**



#####

| λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(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<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(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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**Melanopic Flux vs. Wavelength**



**Melanopic Lumens: 5527.6 M/P: 0.74**

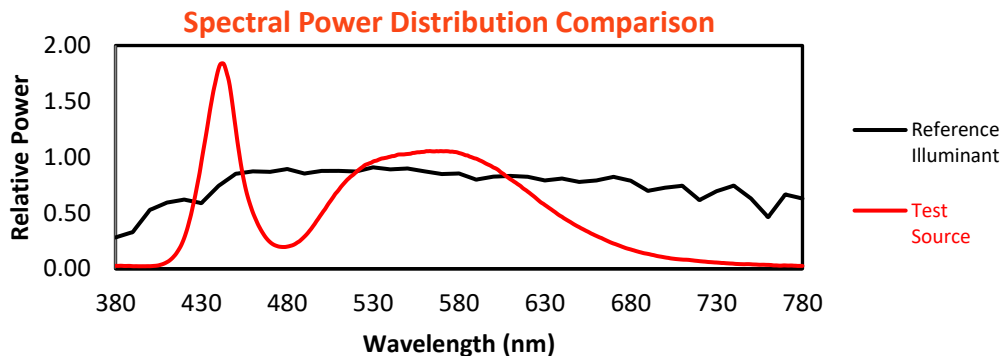
| λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(φ/nm) |
|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|
| 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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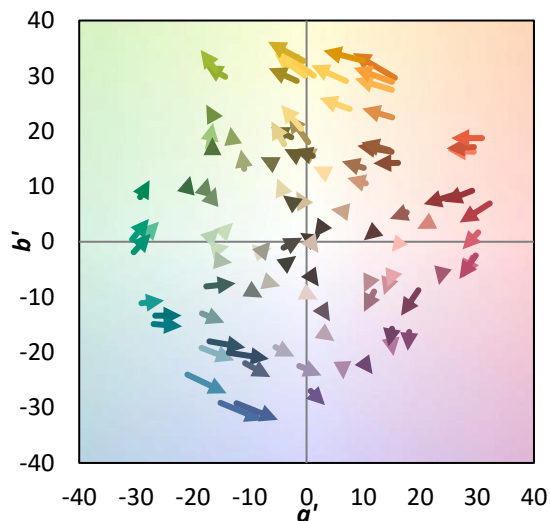
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**Summary**

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



**Color Vector Graphics**



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

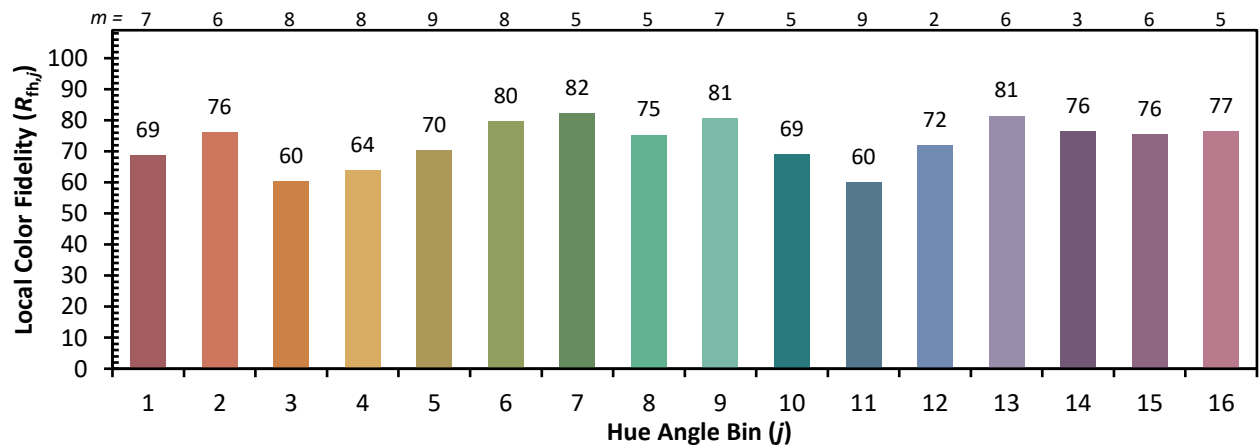
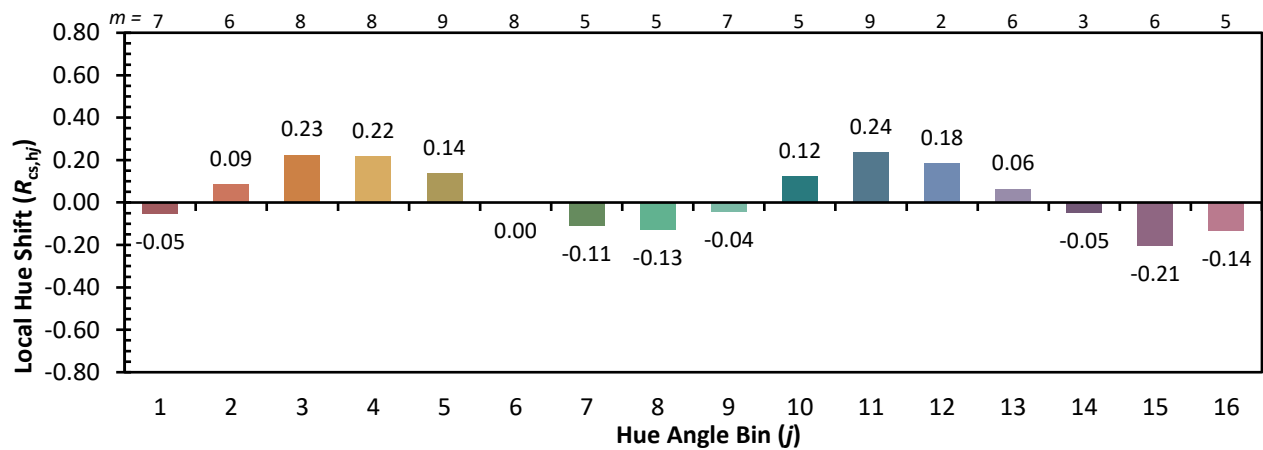
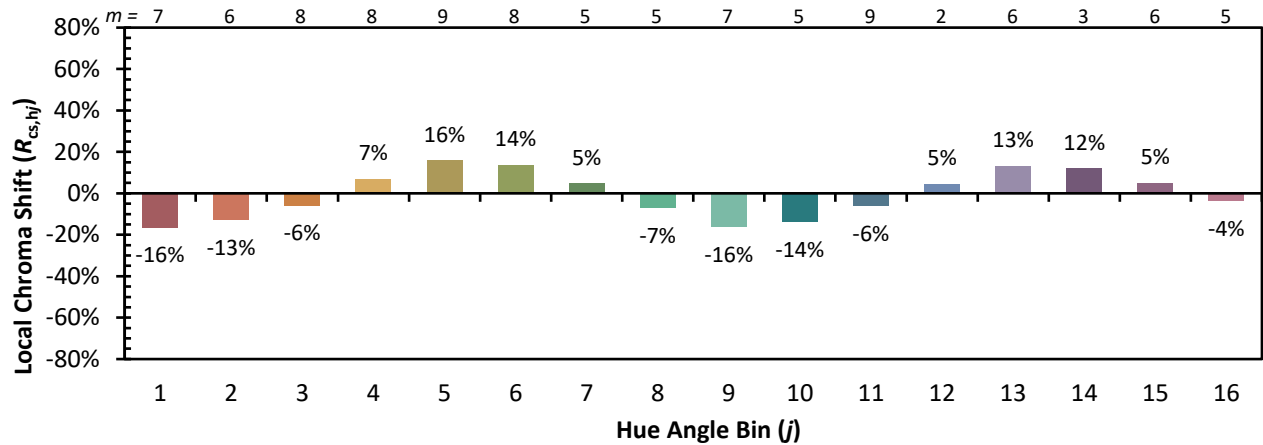
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 54 | CES51 = 88 | CES76 = 43 |
| CES02 = 59 | CES27 = 79 | CES52 = 90 | CES77 = 64 |
| CES03 = 30 | CES28 = 77 | CES53 = 77 | CES78 = 46 |
| CES04 = 69 | CES29 = 50 | CES54 = 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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**Color Rendition by Hue-Angle Bin**



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**Measure Comparisons**



(END OF REPORT)