

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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Peachtree City, GA 30269

Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1457760

Luminaire Tested: GLAN-SB7B-827-U-T2LG-HSS

Issue Date: 05/20/2026

Test Information

Test Method: LM-79-2024
Report Number: P1457760
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/22/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GLAN-SB7B-827-U-T2LG-HSS
Description: GALLEON II AREA AND ROADWAY HIGH DENSITY LUMINAIRE 450mA 7xLight Square PACKAGE 80CRI 2700K FIXTURE w/ TYPE II LOW GLARE WITH HOUSE SIDE SHIELD
Light Source: (182) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

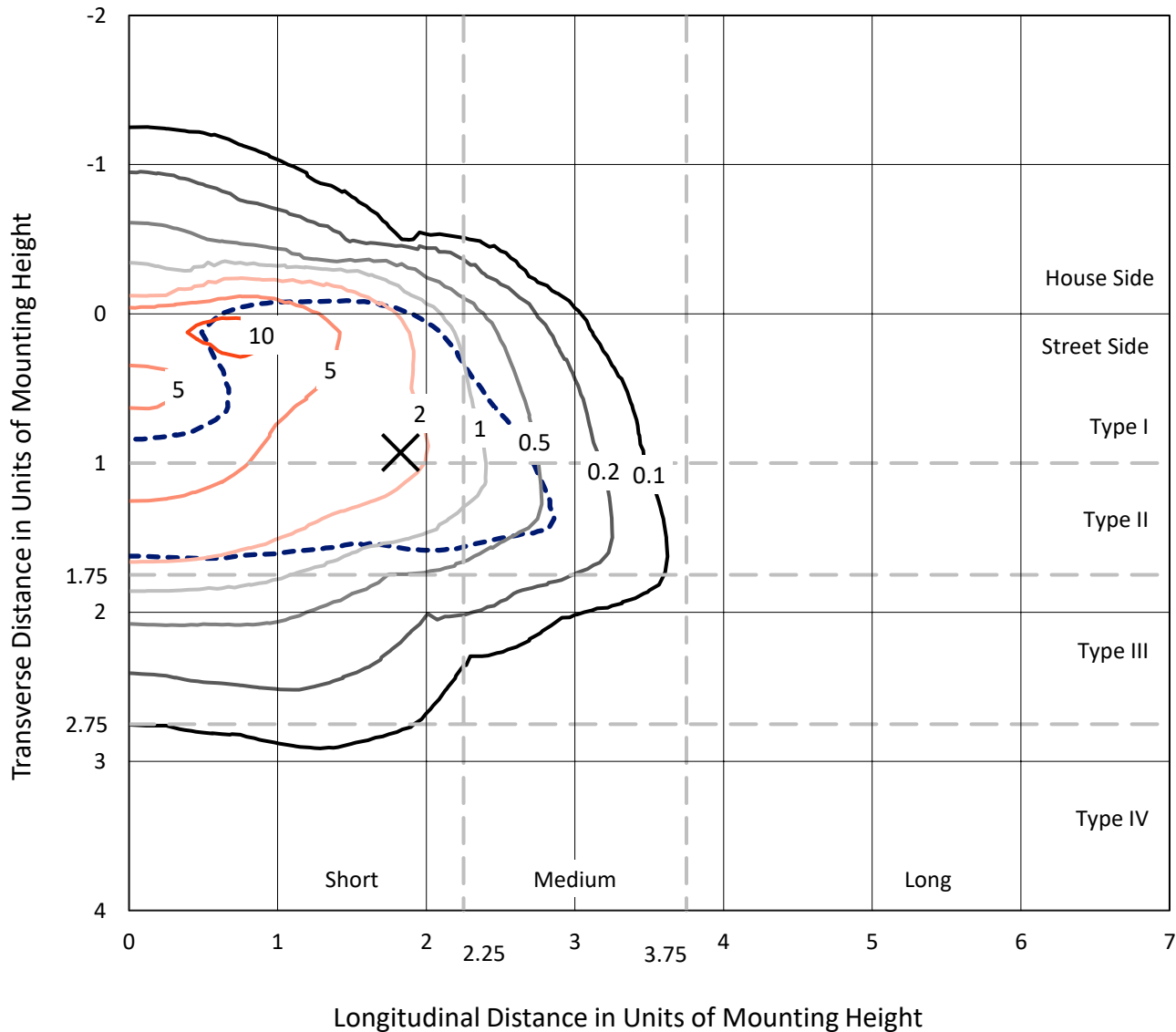
Lumens per Lamp: N/A
Luminaire Lumens: 25226.3 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 256.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
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

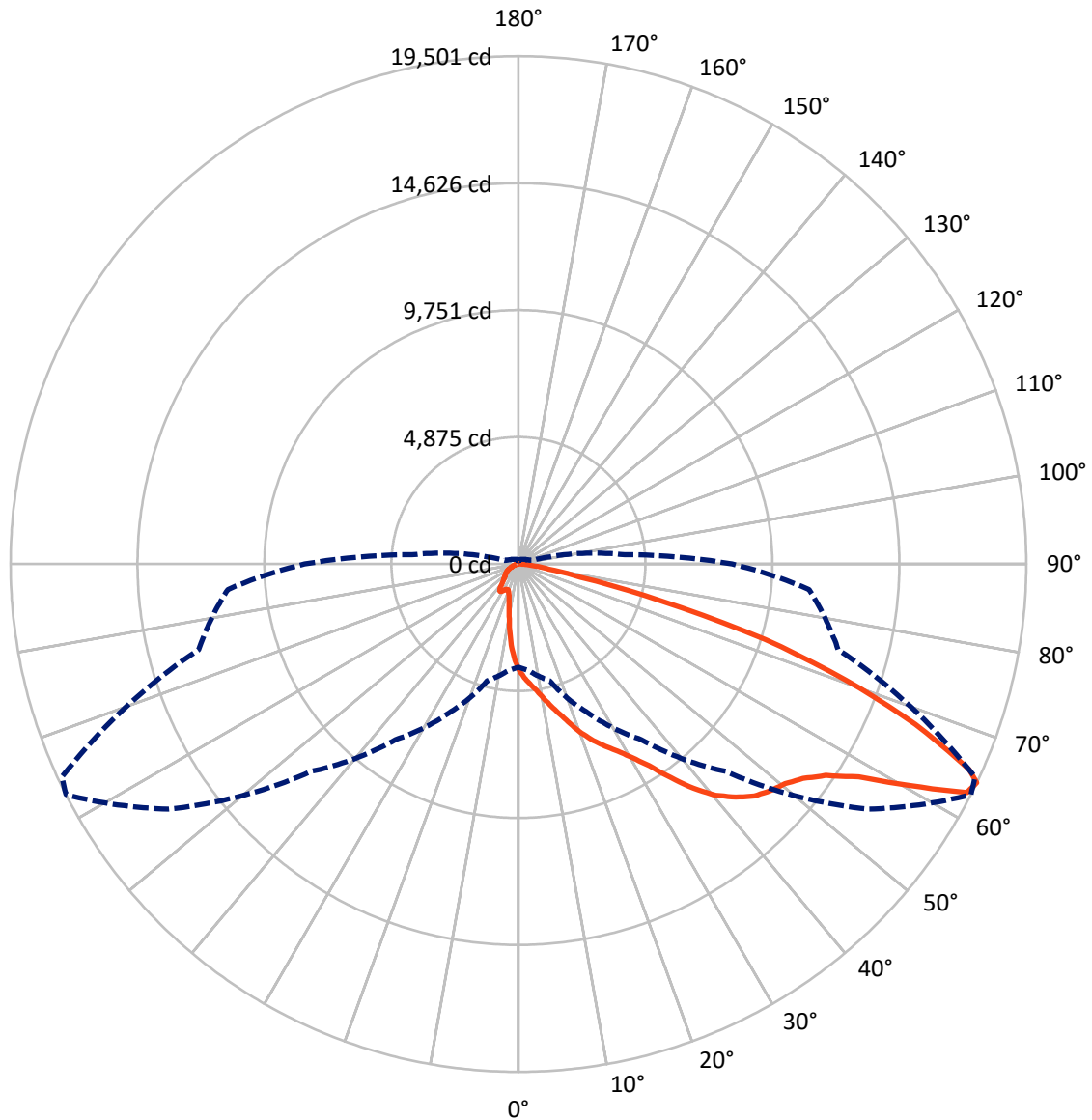
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Short - N/A

REPORT NUMBER: P1457760
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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2993.5 | 0.0 | 2993.5 |
| | % Fixture | 11.9 | 0.0 | 11.9 |
| Street Side | Lumens | 22232.7 | 0.0 | 22232.7 |
| | % Fixture | 88.1 | 0.0 | 88.1 |
| Total | Lumens | 25226.3 | 0.0 | 25226.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 343.5 | 1.4 |
| 10°-20° | 965.2 | 3.8 |
| 20°-30° | 1719.1 | 6.8 |
| 30°-40° | 3283.4 | 13.0 |
| 40°-50° | 5442.4 | 21.6 |
| 50°-60° | 6784.0 | 26.9 |
| 60°-70° | 5058.6 | 20.1 |
| 70°-80° | 1450.8 | 5.8 |
| 80°-90° | 179.4 | 0.7 |
| 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° | 25226.3 | 100.0 |
| 0°-180° | 25226.3 | 100.0 |

Coefficient of Utilization



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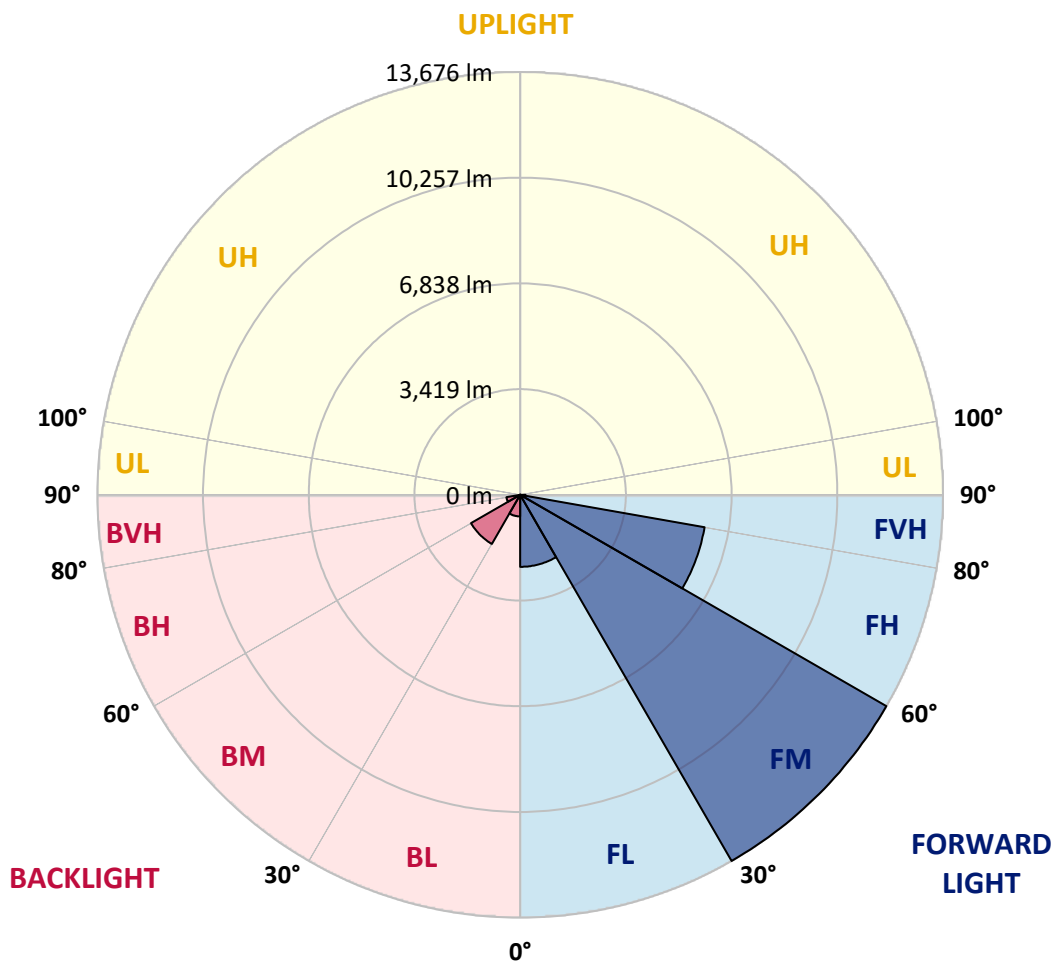
CATALOG NUMBER: GLAN-SB7B-827-U-T2LG-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2329.3 | 9.2 | | | |
| FM | (30°-60°) | 13676.2 | 54.2 | | | |
| FH | (60°-80°) | 6056.6 | 24.0 | | | G3/7500 |
| FVH | (80°-90°) | 170.6 | 0.7 | | | G2/225 |
| BL | (0°-30°) | 698.4 | 2.8 | B2/1000 | | |
| BM | (30°-60°) | 1833.6 | 7.3 | B2/2500 | | |
| BH | (60°-80°) | 452.7 | 1.8 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 8.8 | 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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 63° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4078.8 | 4078.8 | 4078.8 | 4078.8 | 4078.8 | 4078.8 | 4078.8 | 4078.8 | 4078.8 | 4078.8 | 4078.8 |
| 2.5° | 4570.7 | 4555.5 | 4540.4 | 4517.7 | 4487.4 | 4457.2 | 4419.3 | 4366.3 | 4343.6 | 4268.0 | 4177.2 |
| 5° | 4805.2 | 4805.2 | 4797.7 | 4782.5 | 4767.4 | 4737.1 | 4691.7 | 4623.6 | 4593.4 | 4487.4 | 4328.5 |
| 7.5° | 4865.8 | 4873.4 | 4896.1 | 4926.3 | 4971.7 | 4964.2 | 4964.2 | 4888.5 | 4873.4 | 4759.8 | 4548.0 |
| 10° | 4759.8 | 4767.4 | 4827.9 | 4911.2 | 5047.4 | 5176.0 | 5266.9 | 5221.5 | 5198.7 | 5085.2 | 4820.4 |
| 12.5° | 4608.5 | 4608.5 | 4706.9 | 4835.5 | 5047.4 | 5289.6 | 5554.4 | 5599.8 | 5607.4 | 5478.7 | 5160.9 |
| 15° | 4215.0 | 4230.1 | 4389.0 | 4646.3 | 4994.4 | 5372.8 | 5819.3 | 5993.3 | 6038.7 | 5955.5 | 5577.1 |
| 17.5° | 3692.9 | 3708.0 | 3866.9 | 4215.0 | 4737.1 | 5372.8 | 6046.3 | 6447.4 | 6507.9 | 6523.0 | 6106.8 |
| 20° | 3473.4 | 3473.4 | 3564.2 | 3829.1 | 4373.9 | 5229.0 | 6182.5 | 6931.7 | 7067.9 | 7234.4 | 6689.5 |
| 22.5° | 3503.7 | 3503.7 | 3556.6 | 3708.0 | 4146.9 | 5032.3 | 6265.7 | 7363.0 | 7643.0 | 8066.8 | 7438.7 |
| 25° | 3670.1 | 3670.1 | 3715.6 | 3813.9 | 4169.6 | 5002.0 | 6424.7 | 7748.9 | 8195.4 | 8997.5 | 8293.8 |
| 27.5° | 3935.0 | 3927.4 | 3965.3 | 4063.7 | 4389.0 | 5145.8 | 6689.5 | 8134.9 | 8634.3 | 10041.8 | 9277.5 |
| 30° | 4320.9 | 4298.2 | 4313.4 | 4426.9 | 4744.7 | 5478.7 | 7075.4 | 8626.7 | 9133.8 | 11184.5 | 10367.2 |
| 32.5° | 5213.9 | 5206.3 | 4986.9 | 4926.3 | 5266.9 | 6016.0 | 7605.2 | 9239.7 | 9807.2 | 12395.3 | 11487.2 |
| 35° | 6825.7 | 6931.7 | 6621.4 | 5826.8 | 5894.9 | 6734.9 | 8361.9 | 10072.1 | 10594.2 | 13681.7 | 12705.5 |
| 37.5° | 8460.3 | 8460.3 | 8331.6 | 7393.3 | 6916.5 | 7529.5 | 9179.2 | 10927.2 | 11472.1 | 14718.4 | 13878.5 |
| 40° | 9754.3 | 9822.4 | 9671.0 | 8967.3 | 8346.8 | 8437.6 | 9996.4 | 11676.4 | 12175.8 | 15354.1 | 14710.9 |
| 42.5° | 10715.3 | 10700.2 | 10639.7 | 10178.0 | 9829.9 | 9625.6 | 10738.0 | 12236.4 | 12713.1 | 15679.5 | 15233.0 |
| 45° | 11752.0 | 11752.0 | 11668.8 | 11290.4 | 11002.9 | 10828.8 | 11290.4 | 12705.5 | 13205.0 | 15876.2 | 15558.4 |
| 47.5° | 12834.2 | 12819.0 | 12735.8 | 12319.6 | 12009.3 | 11752.0 | 11850.4 | 13008.2 | 13507.7 | 15747.6 | 15611.4 |
| 50° | 13099.0 | 13083.9 | 13273.1 | 13288.2 | 13008.2 | 12516.3 | 12296.9 | 13265.5 | 13704.4 | 15755.2 | 15777.9 |
| 52.5° | 12788.8 | 12879.6 | 13159.6 | 13500.1 | 13817.9 | 13303.3 | 12773.6 | 13674.1 | 14128.2 | 15967.0 | 16194.1 |
| 55° | 12016.9 | 12054.7 | 12592.0 | 13136.9 | 13878.5 | 14060.1 | 13537.9 | 14324.9 | 14726.0 | 16171.4 | 16564.9 |
| 57.5° | 10579.1 | 10722.9 | 11298.0 | 12243.9 | 13371.5 | 14128.2 | 14869.8 | 15414.6 | 15717.3 | 16254.6 | 16360.5 |
| 60° | 7983.5 | 8059.2 | 9307.8 | 10533.7 | 12319.6 | 13583.3 | 16110.8 | 17261.1 | 17223.2 | 15316.3 | 14930.3 |
| 62.5° | 4858.2 | 4926.3 | 5819.3 | 7764.1 | 10011.6 | 12448.2 | 16527.0 | 19326.9 | 19122.6 | 13734.7 | 12569.3 |
| 64° | 3957.7 | 4086.4 | 4638.8 | 6303.6 | 8233.2 | 11260.2 | 16405.9 | 19501.0 | 19342.1 | 12713.1 | 11199.6 |
| 65° | 3382.6 | 3556.6 | 4124.2 | 5471.2 | 6999.8 | 9981.3 | 16073.0 | 19016.7 | 18910.7 | 12092.6 | 10064.5 |
| 67.5° | 2126.4 | 2209.7 | 3049.6 | 4252.8 | 4820.4 | 6386.8 | 13817.9 | 16443.8 | 16633.0 | 10775.9 | 7423.5 |
| 70° | 1581.6 | 1619.4 | 2096.1 | 3291.8 | 3761.0 | 3715.6 | 9489.4 | 13318.5 | 13363.9 | 8619.2 | 4479.9 |
| 72.5° | 1150.2 | 1157.8 | 1468.1 | 2436.7 | 2943.7 | 2535.1 | 5002.0 | 9898.1 | 9572.7 | 5047.4 | 2444.2 |
| 75° | 764.3 | 794.6 | 1029.2 | 1717.8 | 2292.9 | 1861.6 | 2277.8 | 5637.7 | 5539.3 | 2466.9 | 1400.0 |
| 77.5° | 560.0 | 567.5 | 696.2 | 1150.2 | 1801.0 | 1369.7 | 1377.3 | 2429.1 | 2504.8 | 1468.1 | 885.4 |
| 80° | 317.8 | 333.0 | 454.0 | 703.8 | 1172.9 | 938.3 | 771.9 | 1172.9 | 1347.0 | 998.9 | 590.3 |
| 82.5° | 189.2 | 204.3 | 325.4 | 461.6 | 802.1 | 385.9 | 393.5 | 643.2 | 802.1 | 718.9 | 317.8 |
| 85° | 113.5 | 121.1 | 204.3 | 249.7 | 476.7 | 257.3 | 143.8 | 317.8 | 416.2 | 423.8 | 174.0 |
| 87.5° | 75.7 | 75.7 | 113.5 | 105.9 | 136.2 | 121.1 | 60.5 | 83.2 | 105.9 | 143.8 | 68.1 |
| 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: P1457760

CATALOG NUMBER: GLAN-SB7B-827-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4078.8 | 4078.8 | 4078.8 | 4078.8 | 4078.8 | 4078.8 | 4078.8 | 4078.8 | 4078.8 | 4078.8 | 4078.8 |
| 2.5° | 4101.5 | 4056.1 | 3919.9 | 3738.3 | 3571.8 | 3443.1 | 3284.2 | 3178.3 | 3079.9 | 3079.9 | 2996.7 |
| 5° | 4199.9 | 4078.8 | 3745.8 | 3329.6 | 2883.1 | 2459.4 | 2187.0 | 1884.3 | 1785.9 | 1702.6 | 1717.8 |
| 7.5° | 4366.3 | 4146.9 | 3556.6 | 2807.5 | 2096.1 | 1642.1 | 1339.4 | 1203.2 | 1142.7 | 1104.8 | 1112.4 |
| 10° | 4570.7 | 4268.0 | 3329.6 | 2277.8 | 1543.7 | 1203.2 | 1059.4 | 1006.5 | 983.8 | 976.2 | 976.2 |
| 12.5° | 4850.7 | 4411.7 | 3102.6 | 1831.3 | 1218.3 | 1036.7 | 961.0 | 930.8 | 908.1 | 892.9 | 892.9 |
| 15° | 5183.6 | 4593.4 | 2837.7 | 1505.9 | 1067.0 | 953.5 | 892.9 | 862.7 | 832.4 | 824.8 | 824.8 |
| 17.5° | 5607.4 | 4782.5 | 2603.2 | 1294.0 | 991.3 | 892.9 | 832.4 | 794.6 | 771.9 | 764.3 | 764.3 |
| 20° | 6076.6 | 5017.1 | 2368.6 | 1172.9 | 938.3 | 832.4 | 771.9 | 741.6 | 718.9 | 703.8 | 711.3 |
| 22.5° | 6674.4 | 5312.3 | 2217.2 | 1112.4 | 892.9 | 779.4 | 718.9 | 688.6 | 665.9 | 650.8 | 658.4 |
| 25° | 7332.7 | 5683.1 | 2134.0 | 1112.4 | 862.7 | 741.6 | 673.5 | 643.2 | 620.5 | 605.4 | 605.4 |
| 27.5° | 8134.9 | 6099.3 | 2141.6 | 1157.8 | 855.1 | 711.3 | 635.7 | 605.4 | 582.7 | 560.0 | 560.0 |
| 30° | 9020.2 | 6591.1 | 2224.8 | 1241.0 | 870.2 | 681.1 | 605.4 | 560.0 | 544.8 | 522.1 | 522.1 |
| 32.5° | 9958.6 | 7158.7 | 2436.7 | 1347.0 | 855.1 | 643.2 | 560.0 | 522.1 | 499.4 | 484.3 | 484.3 |
| 35° | 10949.9 | 7801.9 | 2701.5 | 1392.4 | 779.4 | 590.3 | 522.1 | 484.3 | 469.2 | 461.6 | 454.0 |
| 37.5° | 11895.8 | 8361.9 | 2845.3 | 1301.6 | 681.1 | 544.8 | 476.7 | 438.9 | 431.3 | 416.2 | 416.2 |
| 40° | 12629.9 | 8823.5 | 2762.1 | 1112.4 | 628.1 | 499.4 | 438.9 | 401.1 | 385.9 | 370.8 | 370.8 |
| 42.5° | 13061.2 | 8990.0 | 2459.4 | 945.9 | 590.3 | 454.0 | 401.1 | 363.2 | 348.1 | 340.5 | 340.5 |
| 45° | 13310.9 | 8967.3 | 2103.7 | 847.5 | 552.4 | 416.2 | 363.2 | 340.5 | 317.8 | 310.3 | 302.7 |
| 47.5° | 13303.3 | 8732.7 | 1846.4 | 764.3 | 514.6 | 385.9 | 340.5 | 317.8 | 295.1 | 287.6 | 287.6 |
| 50° | 13250.4 | 8384.6 | 1558.9 | 703.8 | 484.3 | 363.2 | 317.8 | 302.7 | 280.0 | 272.4 | 264.9 |
| 52.5° | 13379.0 | 8187.8 | 1301.6 | 665.9 | 446.5 | 348.1 | 310.3 | 287.6 | 257.3 | 249.7 | 249.7 |
| 55° | 13537.9 | 8074.3 | 1044.3 | 628.1 | 416.2 | 340.5 | 295.1 | 272.4 | 242.2 | 234.6 | 234.6 |
| 57.5° | 13076.3 | 7643.0 | 862.7 | 567.5 | 378.4 | 325.4 | 280.0 | 264.9 | 234.6 | 211.9 | 211.9 |
| 60° | 11623.4 | 6318.7 | 711.3 | 499.4 | 348.1 | 302.7 | 264.9 | 242.2 | 211.9 | 181.6 | 181.6 |
| 62.5° | 9451.6 | 4820.4 | 590.3 | 423.8 | 325.4 | 280.0 | 242.2 | 219.5 | 181.6 | 143.8 | 143.8 |
| 64° | 8210.5 | 4093.9 | 529.7 | 370.8 | 310.3 | 257.3 | 219.5 | 196.8 | 158.9 | 121.1 | 113.5 |
| 65° | 7363.0 | 3617.2 | 491.9 | 348.1 | 302.7 | 242.2 | 211.9 | 189.2 | 143.8 | 113.5 | 105.9 |
| 67.5° | 5183.6 | 2429.1 | 393.5 | 287.6 | 264.9 | 204.3 | 181.6 | 158.9 | 128.6 | 98.4 | 90.8 |
| 70° | 3019.4 | 1377.3 | 310.3 | 242.2 | 204.3 | 158.9 | 151.3 | 143.8 | 113.5 | 75.7 | 75.7 |
| 72.5° | 1642.1 | 688.6 | 234.6 | 196.8 | 158.9 | 113.5 | 128.6 | 113.5 | 90.8 | 60.5 | 53.0 |
| 75° | 1006.5 | 423.8 | 174.0 | 143.8 | 105.9 | 83.2 | 98.4 | 83.2 | 53.0 | 37.8 | 30.3 |
| 77.5° | 673.5 | 272.4 | 128.6 | 98.4 | 68.1 | 53.0 | 68.1 | 45.4 | 22.7 | 7.6 | 7.6 |
| 80° | 416.2 | 189.2 | 83.2 | 60.5 | 37.8 | 22.7 | 15.1 | 7.6 | 7.6 | 0.0 | 0.0 |
| 82.5° | 181.6 | 121.1 | 45.4 | 30.3 | 15.1 | 7.6 | 7.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 98.4 | 37.8 | 15.1 | 7.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 30.3 | 15.1 | 7.6 | 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 |

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-8

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-827-U-5WQ

Data in this report applies to families of products including GSS-SB1A-827-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-8
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/15/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGraw-Edison
 Catalog Number: **GSS-SB1A-827-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 2700K CCT 26 LEDS

Spectral Parameters

CCT (K): 2756
 CIE u': 0.2599
 CIE v': 0.5271
 Duv: 0.0006
 CIE x: 0.4563
 CIE y: 0.4112
 CIE z: 0.1325
 Peak Wavelength (nm): 609
 Dominant Wavelength (nm): 583
 Purity: 60.41121
 Rf: 82.2
 Rg: 99.9

| | | | |
|-----------|------|------|------|
| CRI (Ra): | 82.9 | | |
| R1: | 81.6 | R9: | 10.8 |
| R2: | 88.8 | R10: | 74.8 |
| R3: | 96.0 | R11: | 84.3 |
| R4: | 83.4 | R12: | 72.1 |
| R5: | 81.4 | R13: | 82.9 |
| R6: | 87.0 | R14: | 97.3 |
| R7: | 84.0 | R15: | 73.7 |
| R8: | 60.8 | | |



Test Conditions

Stabilization Time: 29M
 Operation Time: 1H 29M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-8

| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC Power Source | IN0208 | 10/24/2023 | 10/24/2024 |
| Sphere Thermometer | IN0085 | 10/24/2023 | 10/24/2024 |
| Room Thermometer | IN0046 | 10/24/2023 | 10/24/2024 |

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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 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-8

Photopic Flux vs. Wavelength



Photopic Lumens: NR

| λ (nm) | Power W [^] /nm | Lumens (ϕ /nm) | λ (nm) | Power W [^] /nm | Lumens (ϕ /nm) | λ (nm) | Power W [^] /nm | Lumens (ϕ /nm) | λ (nm) | Power W [^] /nm | Lumens (ϕ /nm) | λ (nm) | Power W [^] /nm | Lumens (ϕ /nm) |
|-------------------|-----------------------------|-------------------------|-------------------|-----------------------------|-------------------------|-------------------|-----------------------------|-------------------------|-------------------|-----------------------------|-------------------------|-------------------|-----------------------------|-------------------------|
| 360 | 0 | NR | 490 | 158 | NR | 620 | 959 | NR | 750 | 35 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 211 | NR | 625 | 918 | NR | 755 | 30 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 264 | NR | 630 | 873 | NR | 760 | 26 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 318 | NR | 635 | 816 | NR | 765 | 22 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 363 | NR | 640 | 755 | NR | 770 | 19 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 403 | NR | 645 | 689 | NR | 775 | 16 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 435 | NR | 650 | 626 | NR | 780 | 14 | NR | 910 | 0 | NR |
| 395 | 1 | NR | 525 | 459 | NR | 655 | 564 | NR | 785 | 12 | NR | 915 | 0 | NR |
| 400 | 3 | NR | 530 | 481 | NR | 660 | 503 | NR | 790 | 10 | NR | 920 | 0 | NR |
| 405 | 6 | NR | 535 | 501 | NR | 665 | 447 | NR | 795 | 9 | NR | 925 | 0 | NR |
| 410 | 13 | NR | 540 | 519 | NR | 670 | 392 | NR | 800 | 8 | NR | 930 | 0 | NR |
| 415 | 26 | NR | 545 | 542 | NR | 675 | 343 | NR | 805 | 7 | NR | 935 | 0 | NR |
| 420 | 51 | NR | 550 | 565 | NR | 680 | 299 | NR | 810 | 6 | NR | 940 | 0 | NR |
| 425 | 93 | NR | 555 | 593 | NR | 685 | 260 | NR | 815 | 5 | NR | 945 | 0 | NR |
| 430 | 156 | NR | 560 | 624 | NR | 690 | 225 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 250 | NR | 565 | 662 | NR | 695 | 194 | NR | 825 | 4 | NR | 955 | 0 | NR |
| 440 | 391 | NR | 570 | 707 | NR | 700 | 166 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 460 | NR | 575 | 756 | NR | 705 | 143 | NR | 835 | 3 | NR | 965 | 0 | NR |
| 450 | 293 | NR | 580 | 810 | NR | 710 | 122 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 188 | NR | 585 | 860 | NR | 715 | 105 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 149 | NR | 590 | 910 | NR | 720 | 90 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 103 | NR | 595 | 950 | NR | 725 | 77 | NR | 855 | 2 | NR | 985 | 0 | NR |
| 470 | 80 | NR | 600 | 980 | NR | 730 | 66 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 82 | NR | 605 | 995 | NR | 735 | 56 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 92 | NR | 610 | 998 | NR | 740 | 48 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 116 | NR | 615 | 985 | NR | 745 | 41 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2407-184-8

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.2

| λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) |
|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|
| 360 | 0 | NR | 490 | 158 | NR | 620 | 959 | NR | 750 | 35 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 211 | NR | 625 | 918 | NR | 755 | 30 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 264 | NR | 630 | 873 | NR | 760 | 26 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 318 | NR | 635 | 816 | NR | 765 | 22 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 363 | NR | 640 | 755 | NR | 770 | 19 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 403 | NR | 645 | 689 | NR | 775 | 16 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 435 | NR | 650 | 626 | NR | 780 | 14 | NR | 910 | 0 | NR |
| 395 | 1 | NR | 525 | 459 | NR | 655 | 564 | NR | 785 | 12 | NR | 915 | 0 | NR |
| 400 | 3 | NR | 530 | 481 | NR | 660 | 503 | NR | 790 | 10 | NR | 920 | 0 | NR |
| 405 | 6 | NR | 535 | 501 | NR | 665 | 447 | NR | 795 | 9 | NR | 925 | 0 | NR |
| 410 | 13 | NR | 540 | 519 | NR | 670 | 392 | NR | 800 | 8 | NR | 930 | 0 | NR |
| 415 | 26 | NR | 545 | 542 | NR | 675 | 343 | NR | 805 | 7 | NR | 935 | 0 | NR |
| 420 | 51 | NR | 550 | 565 | NR | 680 | 299 | NR | 810 | 6 | NR | 940 | 0 | NR |
| 425 | 93 | NR | 555 | 593 | NR | 685 | 260 | NR | 815 | 5 | NR | 945 | 0 | NR |
| 430 | 156 | NR | 560 | 624 | NR | 690 | 225 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 250 | NR | 565 | 662 | NR | 695 | 194 | NR | 825 | 4 | NR | 955 | 0 | NR |
| 440 | 391 | NR | 570 | 707 | NR | 700 | 166 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 460 | NR | 575 | 756 | NR | 705 | 143 | NR | 835 | 3 | NR | 965 | 0 | NR |
| 450 | 293 | NR | 580 | 810 | NR | 710 | 122 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 188 | NR | 585 | 860 | NR | 715 | 105 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 149 | NR | 590 | 910 | NR | 720 | 90 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 103 | NR | 595 | 950 | NR | 725 | 77 | NR | 855 | 2 | NR | 985 | 0 | NR |
| 470 | 80 | NR | 600 | 980 | NR | 730 | 66 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 82 | NR | 605 | 995 | NR | 735 | 56 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 92 | NR | 610 | 998 | NR | 740 | 48 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 116 | NR | 615 | 985 | NR | 745 | 41 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2407-184-8

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.16

| λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) |
|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|
| 360 | 0 | NR | 490 | 158 | NR | 620 | 959 | NR | 750 | 35 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 211 | NR | 625 | 918 | NR | 755 | 30 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 264 | NR | 630 | 873 | NR | 760 | 26 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 318 | NR | 635 | 816 | NR | 765 | 22 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 363 | NR | 640 | 755 | NR | 770 | 19 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 403 | NR | 645 | 689 | NR | 775 | 16 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 435 | NR | 650 | 626 | NR | 780 | 14 | NR | 910 | 0 | NR |
| 395 | 1 | NR | 525 | 459 | NR | 655 | 564 | NR | 785 | 12 | NR | 915 | 0 | NR |
| 400 | 3 | NR | 530 | 481 | NR | 660 | 503 | NR | 790 | 10 | NR | 920 | 0 | NR |
| 405 | 6 | NR | 535 | 501 | NR | 665 | 447 | NR | 795 | 9 | NR | 925 | 0 | NR |
| 410 | 13 | NR | 540 | 519 | NR | 670 | 392 | NR | 800 | 8 | NR | 930 | 0 | NR |
| 415 | 26 | NR | 545 | 542 | NR | 675 | 343 | NR | 805 | 7 | NR | 935 | 0 | NR |
| 420 | 51 | NR | 550 | 565 | NR | 680 | 299 | NR | 810 | 6 | NR | 940 | 0 | NR |
| 425 | 93 | NR | 555 | 593 | NR | 685 | 260 | NR | 815 | 5 | NR | 945 | 0 | NR |
| 430 | 156 | NR | 560 | 624 | NR | 690 | 225 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 250 | NR | 565 | 662 | NR | 695 | 194 | NR | 825 | 4 | NR | 955 | 0 | NR |
| 440 | 391 | NR | 570 | 707 | NR | 700 | 166 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 460 | NR | 575 | 756 | NR | 705 | 143 | NR | 835 | 3 | NR | 965 | 0 | NR |
| 450 | 293 | NR | 580 | 810 | NR | 710 | 122 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 188 | NR | 585 | 860 | NR | 715 | 105 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 149 | NR | 590 | 910 | NR | 720 | 90 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 103 | NR | 595 | 950 | NR | 725 | 77 | NR | 855 | 2 | NR | 985 | 0 | NR |
| 470 | 80 | NR | 600 | 980 | NR | 730 | 66 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 82 | NR | 605 | 995 | NR | 735 | 56 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 92 | NR | 610 | 998 | NR | 740 | 48 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 116 | NR | 615 | 985 | NR | 745 | 41 | NR | 875 | 1 | NR | | | |

Summary

$R_f = 82.2$
 $R_g = 99.9$
 $CIE R_a = 82.9$
 $R_9 = 10.8$



Color Vector Graphics

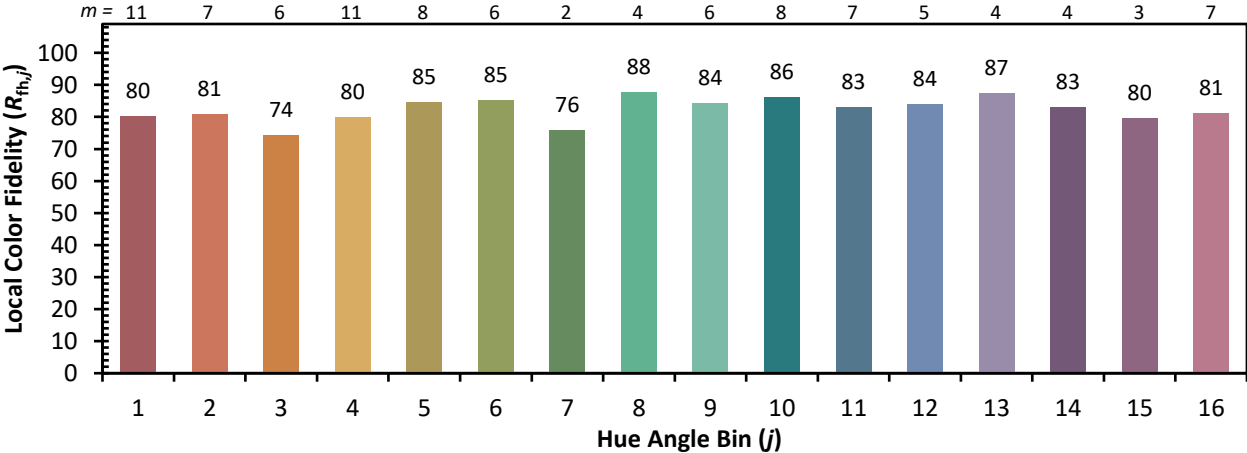


Individual Sample Fidelity Index ($R_{f,i}$)

| | | | |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 76 | CES51 = 89 | CES76 = 75 |
| CES02 = 63 | CES27 = 89 | CES52 = 91 | CES77 = 87 |
| CES03 = 31 | CES28 = 90 | CES53 = 82 | CES78 = 76 |
| CES04 = 71 | CES29 = 68 | CES54 = 88 | CES79 = 91 |
| CES05 = 50 | CES30 = 69 | CES55 = 87 | CES80 = 90 |
| CES06 = 52 | CES31 = 72 | CES56 = 80 | CES81 = 74 |
| CES07 = 43 | CES32 = 71 | CES57 = 78 | CES82 = 95 |
| CES08 = 42 | CES33 = 71 | CES58 = 80 | CES83 = 90 |
| CES09 = 29 | CES34 = 84 | CES59 = 93 | CES84 = 94 |
| CES10 = 77 | CES35 = 92 | CES60 = 96 | CES85 = 83 |
| CES11 = 59 | CES36 = 92 | CES61 = 94 | CES86 = 69 |
| CES12 = 66 | CES37 = 89 | CES62 = 84 | CES87 = 85 |
| CES13 = 44 | CES38 = 75 | CES63 = 79 | CES88 = 84 |
| CES14 = 74 | CES39 = 93 | CES64 = 85 | CES89 = 74 |
| CES15 = 72 | CES40 = 89 | CES65 = 79 | CES90 = 81 |
| CES16 = 48 | CES41 = 85 | CES66 = 83 | CES91 = 96 |
| CES17 = 50 | CES42 = 88 | CES67 = 82 | CES92 = 72 |
| CES18 = 57 | CES43 = 81 | CES68 = 86 | CES93 = 84 |
| CES19 = 73 | CES44 = 98 | CES69 = 92 | CES94 = 63 |
| CES20 = 67 | CES45 = 87 | CES70 = 81 | CES95 = 80 |
| CES21 = 87 | CES46 = 82 | CES71 = 81 | CES96 = 85 |
| CES22 = 79 | CES47 = 76 | CES72 = 93 | CES97 = 87 |
| CES23 = 92 | CES48 = 71 | CES73 = 75 | CES98 = 82 |
| CES24 = 91 | CES49 = 81 | CES74 = 91 | CES99 = 76 |
| CES25 = 72 | CES50 = 88 | CES75 = 79 | |



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)