

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

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
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: P1456678

Luminaire Tested: GLAN-SB6D-835-U-T3LG

Issue Date: 05/20/2026

Test Information

Test Method: LM-79-2024
Report Number: P1456678
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/22/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GLAN-SB6D-835-U-T3LG
Description: GALLEON II AREA AND ROADWAY HIGH DENSITY LUMINAIRE 900mA 6xLight Square
PACKAGE 80CRI 3500K FIXTURE w/ TYPE III LOW GLARE
Light Source: (156) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55847.2 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

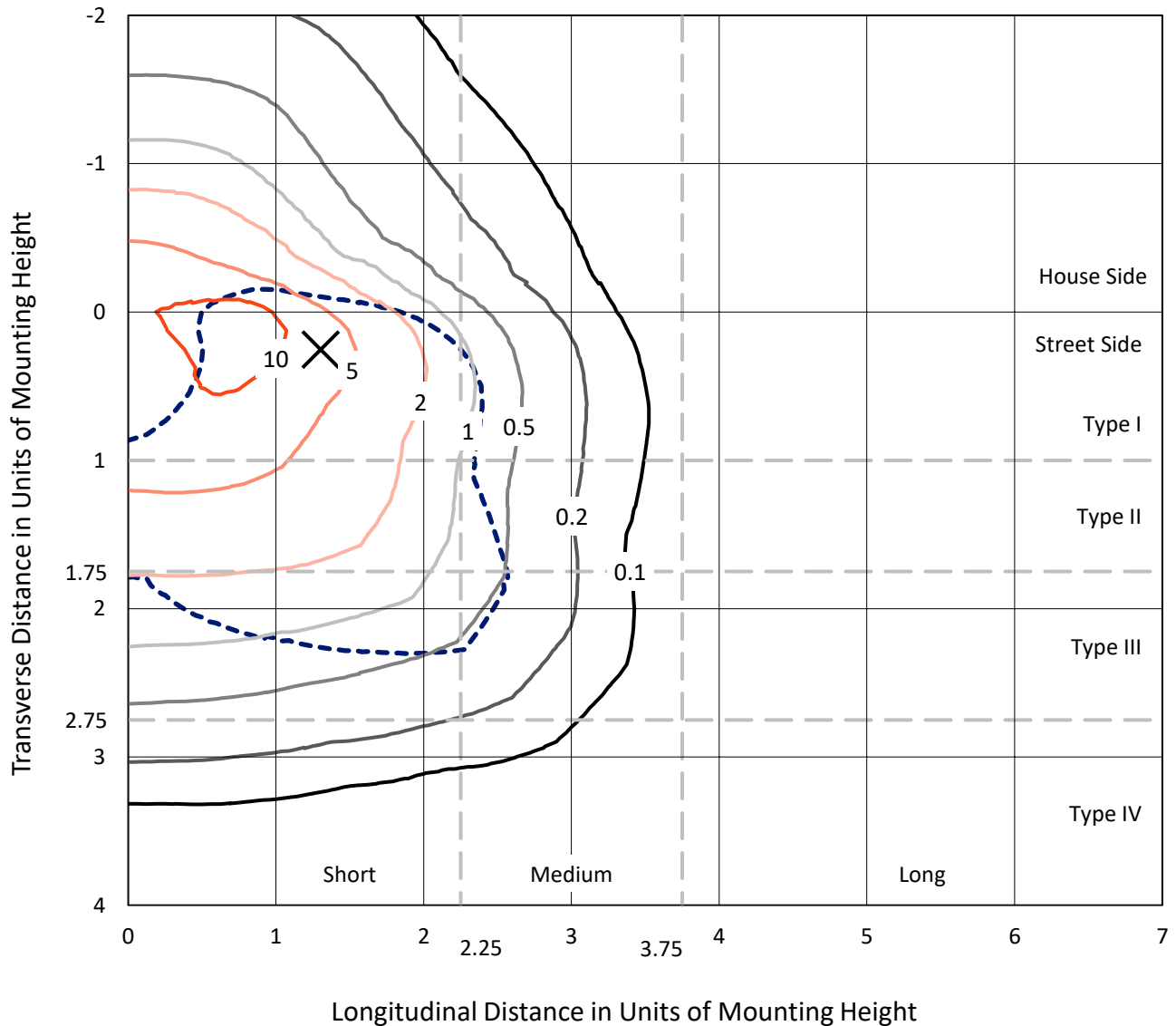
Input Watts (W): 440.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1456678

CATALOG NUMBER: GLAN-SB6D-835-U-T3LG

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

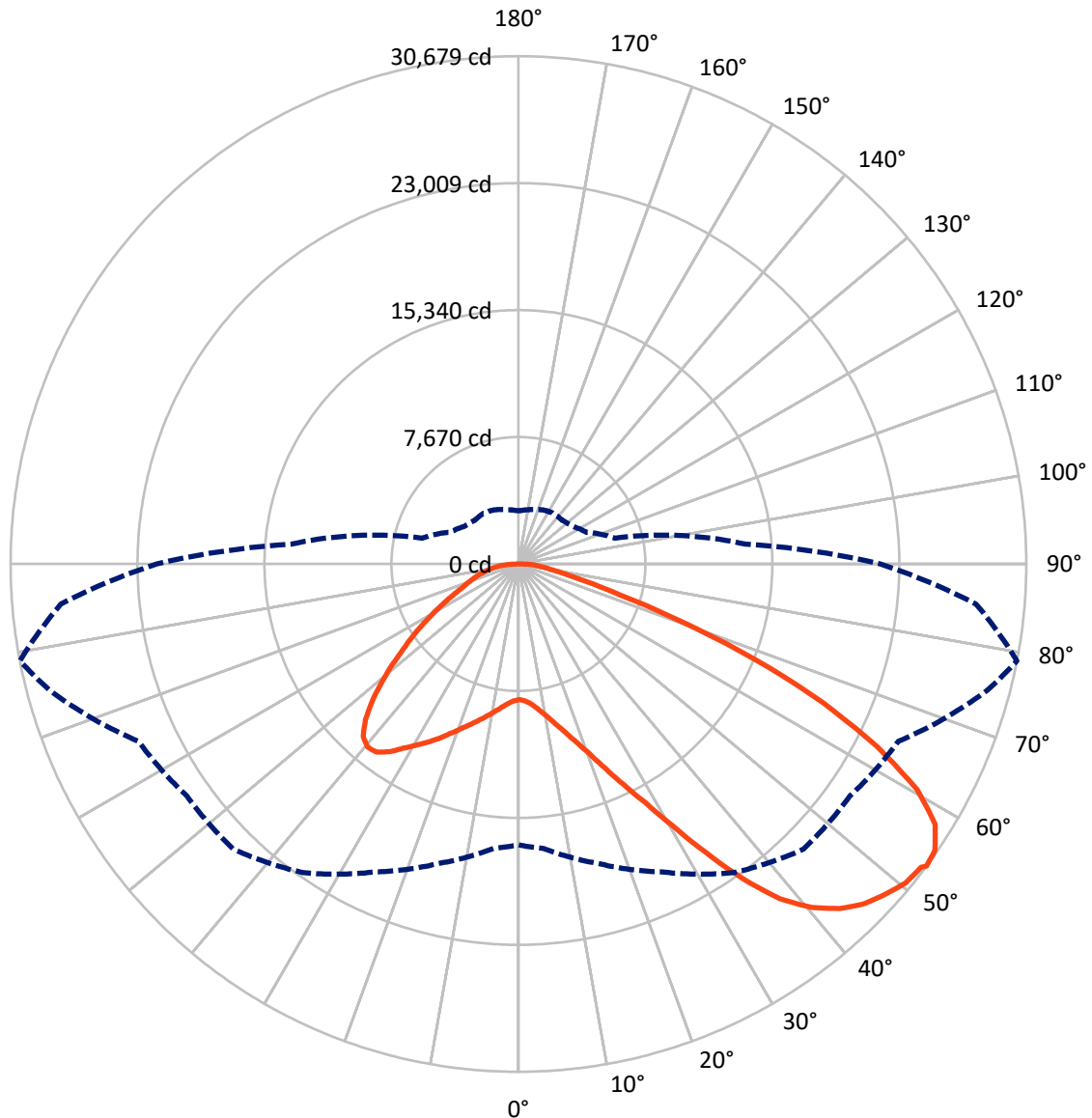


Based on 30 foot mounting height. Maximum calculated value = 14.2 fc
 Type III - Short - N/A

REPORT NUMBER: P1456678

CATALOG NUMBER: GLAN-SB6D-835-U-T3LG

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 53-Deg Vertical

REPORT NUMBER: P1456678

CATALOG NUMBER: GLAN-SB6D-835-U-T3LG

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 14078.7 | 0.0 | 14078.7 |
| | % Fixture | 25.2 | 0.0 | 25.2 |
| Street Side | Lumens | 41768.5 | 0.0 | 41768.5 |
| | % Fixture | 74.8 | 0.0 | 74.8 |
| Total | Lumens | 55847.2 | 0.0 | 55847.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 781.2 | 1.4 |
| 10°-20° | 2419.0 | 4.3 |
| 20°-30° | 4625.1 | 8.3 |
| 30°-40° | 7940.8 | 14.2 |
| 40°-50° | 11122.7 | 19.9 |
| 50°-60° | 12622.8 | 22.6 |
| 60°-70° | 11069.4 | 19.8 |
| 70°-80° | 4328.3 | 7.8 |
| 80°-90° | 937.8 | 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° | 55847.2 | 100.0 |
| 0°-180° | 55847.2 | 100.0 |



REPORT NUMBER: P1456678

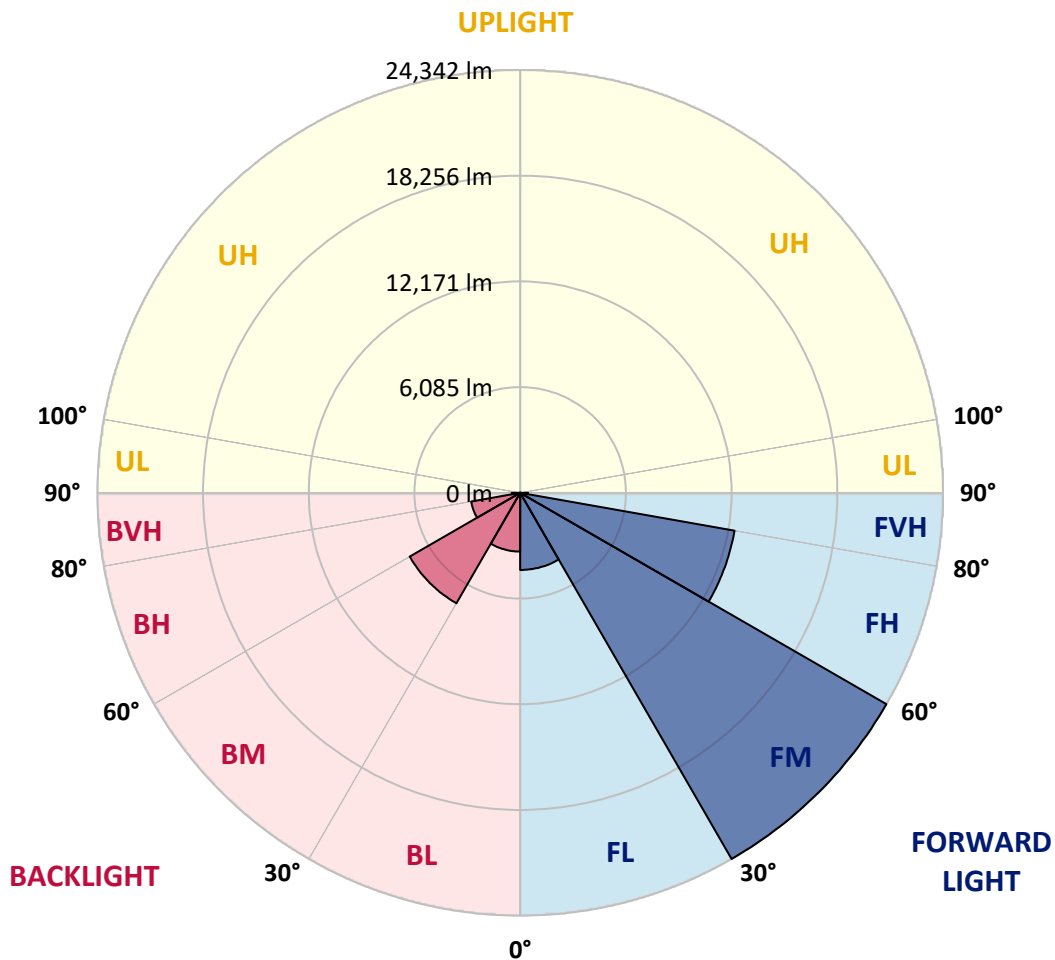
CATALOG NUMBER: GLAN-SB6D-835-U-T3LG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4439.3 | 7.9 | | | |
| FM (30°-60°) | 24341.8 | 43.6 | | | |
| FH (60°-80°) | 12532.5 | 22.4 | | | G5 |
| FVH (80°-90°) | 454.9 | 0.8 | | | G3/500 |
| BL (0°-30°) | 3386.0 | 6.1 | B4/5000 | | |
| BM (30°-60°) | 7344.5 | 13.2 | B4/8500 | | |
| BH (60°-80°) | 2865.2 | 5.1 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 482.9 | 0.9 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type III Short





REPORT NUMBER: P1456678

CATALOG NUMBER: GLAN-SB6D-835-U-T3LG

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8198.5 | 8198.5 | 8198.5 | 8198.5 | 8198.5 | 8198.5 | 8198.5 | 8198.5 | 8198.5 | 8198.5 | 8198.5 |
| 2.5° | 8211.0 | 8211.0 | 8161.2 | 8211.0 | 8186.1 | 8223.4 | 8248.3 | 8248.3 | 8298.0 | 8285.6 | 8285.6 |
| 5° | 8074.1 | 8049.2 | 8036.8 | 8123.9 | 8173.6 | 8273.2 | 8385.1 | 8434.9 | 8522.0 | 8522.0 | 8534.4 |
| 7.5° | 7713.3 | 7700.9 | 7763.1 | 7937.3 | 8099.0 | 8347.8 | 8584.2 | 8721.0 | 8857.9 | 8882.8 | 8882.8 |
| 10° | 7489.4 | 7476.9 | 7551.6 | 7763.1 | 8024.3 | 8385.1 | 8758.3 | 9044.5 | 9268.4 | 9330.6 | 9330.6 |
| 12.5° | 7489.4 | 7489.4 | 7551.6 | 7763.1 | 8036.8 | 8472.2 | 8982.3 | 9467.5 | 9815.8 | 9890.5 | 9865.6 |
| 15° | 7700.9 | 7688.4 | 7763.1 | 7987.0 | 8248.3 | 8658.8 | 9280.9 | 9927.8 | 10400.5 | 10537.4 | 10549.8 |
| 17.5° | 7924.8 | 7912.4 | 8024.3 | 8310.5 | 8621.5 | 9032.0 | 9666.5 | 10462.7 | 11134.5 | 11308.7 | 11346.0 |
| 20° | 8273.2 | 8260.7 | 8397.6 | 8671.3 | 9056.9 | 9529.7 | 10189.0 | 11097.2 | 12030.3 | 12216.9 | 12266.7 |
| 22.5° | 8671.3 | 8683.7 | 8833.0 | 9168.9 | 9554.6 | 10176.6 | 10985.3 | 11993.0 | 13112.6 | 13398.8 | 13448.5 |
| 25° | 9504.8 | 9467.5 | 9591.9 | 9828.3 | 10238.8 | 10985.3 | 11980.5 | 13075.3 | 14406.5 | 14754.8 | 14817.0 |
| 27.5° | 10612.0 | 10549.8 | 10686.7 | 10923.1 | 11221.6 | 11918.3 | 13062.9 | 14282.1 | 15886.9 | 16322.4 | 16334.8 |
| 30° | 11607.3 | 11570.0 | 11756.6 | 12241.8 | 12552.8 | 13087.8 | 14307.0 | 15700.3 | 17715.7 | 18350.2 | 18375.1 |
| 32.5° | 12465.7 | 12453.3 | 12801.6 | 13423.7 | 14132.8 | 14705.1 | 15886.9 | 17491.8 | 20029.7 | 20763.8 | 20602.0 |
| 35° | 13286.8 | 13324.1 | 13759.6 | 14406.5 | 15352.0 | 16496.5 | 17690.9 | 19519.7 | 22468.1 | 23351.4 | 23090.2 |
| 37.5° | 14120.3 | 14145.2 | 14717.5 | 15551.0 | 16546.3 | 18039.2 | 19644.1 | 21721.7 | 24583.1 | 25677.9 | 25105.6 |
| 40° | 14891.7 | 14966.3 | 15737.7 | 16633.4 | 17927.2 | 19445.0 | 21236.5 | 23251.9 | 26212.8 | 27295.2 | 26673.1 |
| 42.5° | 15663.0 | 15775.0 | 16608.5 | 17840.2 | 19221.1 | 20801.1 | 22343.7 | 24185.0 | 27257.9 | 28464.6 | 27506.7 |
| 45° | 16459.2 | 16533.9 | 17566.5 | 18847.9 | 20415.4 | 21871.0 | 22978.2 | 24782.1 | 27979.4 | 29285.7 | 27979.4 |
| 47.5° | 16994.2 | 17143.5 | 18275.6 | 19756.0 | 21323.6 | 22692.1 | 23488.3 | 25031.0 | 28439.7 | 29820.7 | 28153.6 |
| 50° | 17205.7 | 17417.2 | 18636.4 | 20278.6 | 22070.0 | 23463.4 | 23886.4 | 25167.8 | 28949.8 | 30293.4 | 28116.3 |
| 52.5° | 17168.4 | 17367.4 | 18698.6 | 20514.9 | 22667.2 | 24172.5 | 24272.1 | 25317.1 | 29310.6 | 30455.2 | 27792.8 |
| 53° | 16969.3 | 17243.0 | 18735.9 | 20527.4 | 22754.3 | 24359.2 | 24446.2 | 25329.5 | 29360.4 | 30679.1 | 27743.1 |
| 55° | 16285.1 | 16434.3 | 18350.2 | 20514.9 | 23164.8 | 25055.8 | 24931.4 | 25702.8 | 29497.2 | 30529.8 | 27195.7 |
| 57.5° | 15663.0 | 15812.3 | 17479.4 | 20278.6 | 23500.7 | 26038.7 | 25715.2 | 25640.6 | 28750.8 | 29683.8 | 25814.7 |
| 60° | 15264.9 | 15314.7 | 16720.5 | 19532.1 | 23363.9 | 26722.9 | 26225.3 | 24906.5 | 26909.5 | 27680.9 | 23388.8 |
| 62.5° | 14929.0 | 14916.6 | 16160.6 | 18462.2 | 22841.4 | 26822.4 | 26324.8 | 23090.2 | 24209.9 | 24334.3 | 20154.2 |
| 65° | 14170.1 | 14083.0 | 15289.8 | 17255.4 | 21759.0 | 26374.6 | 25105.6 | 20340.8 | 20626.9 | 20216.4 | 16185.5 |
| 67.5° | 12664.8 | 12478.2 | 13548.1 | 15414.2 | 19557.0 | 25105.6 | 22779.2 | 17143.5 | 16260.2 | 15439.1 | 12192.0 |
| 70° | 9069.4 | 9069.4 | 9927.8 | 11793.9 | 15700.3 | 21696.8 | 19557.0 | 12975.8 | 11196.8 | 10462.7 | 8148.7 |
| 72.5° | 4441.4 | 4553.3 | 5449.1 | 6966.9 | 10524.9 | 15750.1 | 14978.8 | 8410.0 | 6792.7 | 6431.9 | 5225.2 |
| 75° | 1891.0 | 1903.4 | 2326.4 | 3085.3 | 5337.1 | 9318.2 | 9380.4 | 4851.9 | 4354.3 | 4180.1 | 3458.6 |
| 77.5° | 1318.7 | 1343.6 | 1530.2 | 1816.4 | 2537.9 | 4279.6 | 4876.8 | 2936.0 | 2923.6 | 2799.2 | 2463.3 |
| 80° | 1007.7 | 1032.6 | 1157.0 | 1356.1 | 1704.4 | 2189.6 | 2525.5 | 1990.5 | 2090.1 | 1965.7 | 1779.0 |
| 82.5° | 758.9 | 783.8 | 870.9 | 1020.1 | 1219.2 | 1468.0 | 1418.3 | 1468.0 | 1542.7 | 1468.0 | 1281.4 |
| 85° | 510.1 | 522.5 | 584.7 | 709.1 | 783.8 | 883.3 | 883.3 | 1069.9 | 1119.7 | 1094.8 | 1007.7 |
| 87.5° | 261.3 | 261.3 | 311.0 | 373.2 | 398.1 | 410.5 | 360.8 | 472.8 | 535.0 | 584.7 | 472.8 |
| 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: P1456678

CATALOG NUMBER: GLAN-SB6D-835-U-T3LG

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8198.5 | 8198.5 | 8198.5 | 8198.5 | 8198.5 | 8198.5 | 8198.5 | 8198.5 | 8198.5 | 8198.5 | 8198.5 |
| 2.5° | 8285.6 | 8298.0 | 8260.7 | 8248.3 | 8235.8 | 8173.6 | 8173.6 | 8111.4 | 8099.0 | 8111.4 | 8074.1 |
| 5° | 8559.3 | 8534.4 | 8434.9 | 8360.2 | 8273.2 | 8099.0 | 7999.5 | 7862.6 | 7825.3 | 7788.0 | 7750.6 |
| 7.5° | 8895.2 | 8857.9 | 8683.7 | 8484.6 | 8248.3 | 7912.4 | 7725.8 | 7501.8 | 7427.2 | 7365.0 | 7340.1 |
| 10° | 9318.2 | 9243.5 | 8969.8 | 8546.9 | 8111.4 | 7700.9 | 7439.6 | 7165.9 | 7041.5 | 7016.6 | 6954.4 |
| 12.5° | 9865.6 | 9728.7 | 9218.7 | 8559.3 | 7987.0 | 7452.1 | 7165.9 | 6954.4 | 6904.7 | 6892.2 | 6830.0 |
| 15° | 10475.2 | 10276.1 | 9455.0 | 8571.7 | 7825.3 | 7240.6 | 7066.4 | 6954.4 | 6954.4 | 6942.0 | 6904.7 |
| 17.5° | 11221.6 | 10898.2 | 9679.0 | 8522.0 | 7626.2 | 7178.4 | 7091.3 | 6991.7 | 6966.9 | 6979.3 | 6929.5 |
| 20° | 12117.4 | 11582.4 | 9915.3 | 8459.8 | 7539.1 | 7190.8 | 7091.3 | 6954.4 | 6892.2 | 6879.8 | 6842.5 |
| 22.5° | 13150.0 | 12366.2 | 10176.6 | 8360.2 | 7539.1 | 7178.4 | 7016.6 | 6830.0 | 6705.6 | 6655.8 | 6606.1 |
| 25° | 14331.8 | 13274.4 | 10450.3 | 8322.9 | 7564.0 | 7128.6 | 6867.3 | 6568.8 | 6369.7 | 6295.1 | 6257.7 |
| 27.5° | 15762.5 | 14232.3 | 10649.4 | 8360.2 | 7551.6 | 7016.6 | 6606.1 | 6220.4 | 5996.5 | 5872.1 | 5847.2 |
| 30° | 17342.5 | 15264.9 | 10786.2 | 8422.4 | 7476.9 | 6805.1 | 6295.1 | 5859.6 | 5548.6 | 5399.3 | 5362.0 |
| 32.5° | 19208.6 | 16421.9 | 10923.1 | 8422.4 | 7290.3 | 6506.6 | 5934.3 | 5461.5 | 5138.1 | 4963.9 | 4939.0 |
| 35° | 21273.8 | 17840.2 | 11047.5 | 8410.0 | 7066.4 | 6183.1 | 5573.5 | 5088.3 | 4752.4 | 4578.2 | 4565.8 |
| 37.5° | 23028.0 | 18910.1 | 11109.7 | 8285.6 | 6755.4 | 5809.9 | 5237.6 | 4752.4 | 4404.1 | 4217.4 | 4205.0 |
| 40° | 24110.3 | 19357.9 | 10985.3 | 8036.8 | 6382.1 | 5424.2 | 4864.4 | 4416.5 | 4068.2 | 3844.2 | 3794.5 |
| 42.5° | 24520.9 | 19146.4 | 10587.1 | 7626.2 | 5934.3 | 5038.5 | 4553.3 | 4080.6 | 3620.3 | 3433.7 | 3396.3 |
| 45° | 24384.0 | 18325.3 | 9741.2 | 7041.5 | 5436.6 | 4690.2 | 4279.6 | 3744.7 | 3446.1 | 3284.4 | 3271.9 |
| 47.5° | 23923.7 | 17056.4 | 8683.7 | 6307.5 | 4914.1 | 4379.2 | 3918.9 | 3657.6 | 3383.9 | 3209.7 | 3197.3 |
| 50° | 23115.1 | 15700.3 | 7414.7 | 5474.0 | 4441.4 | 4055.7 | 3831.8 | 3620.3 | 3396.3 | 3259.5 | 3234.6 |
| 52.5° | 22082.5 | 14170.1 | 6245.3 | 4665.3 | 4030.8 | 3769.6 | 3744.7 | 3595.4 | 3421.2 | 3271.9 | 3209.7 |
| 53° | 21846.1 | 13772.0 | 6021.4 | 4528.5 | 3968.6 | 3732.3 | 3719.8 | 3595.4 | 3396.3 | 3259.5 | 3209.7 |
| 55° | 20714.0 | 12540.4 | 5312.2 | 4043.3 | 3657.6 | 3607.8 | 3719.8 | 3583.0 | 3334.1 | 3222.2 | 3184.9 |
| 57.5° | 18897.6 | 10923.1 | 4628.0 | 3595.4 | 3334.1 | 3458.6 | 3682.5 | 3533.2 | 3259.5 | 3060.4 | 2998.2 |
| 60° | 16708.0 | 9069.4 | 4105.5 | 3296.8 | 3097.8 | 3271.9 | 3533.2 | 3359.0 | 2985.8 | 2886.3 | 2873.8 |
| 62.5° | 14095.5 | 7340.1 | 3707.4 | 3048.0 | 2898.7 | 3072.9 | 3309.3 | 3010.7 | 2737.0 | 2662.3 | 2637.5 |
| 65° | 11010.1 | 5834.8 | 3396.3 | 2861.4 | 2699.7 | 2836.5 | 2998.2 | 2811.6 | 2637.5 | 2575.3 | 2562.8 |
| 67.5° | 8186.1 | 4578.2 | 3147.5 | 2699.7 | 2500.6 | 2587.7 | 2774.3 | 2724.5 | 2575.3 | 2537.9 | 2525.5 |
| 70° | 5648.1 | 3719.8 | 2923.6 | 2550.4 | 2251.8 | 2351.3 | 2637.5 | 2674.8 | 2525.5 | 2500.6 | 2488.2 |
| 72.5° | 3956.2 | 3147.5 | 2687.2 | 2388.6 | 2052.7 | 2152.3 | 2575.3 | 2575.3 | 2413.5 | 2450.8 | 2426.0 |
| 75° | 2973.4 | 2649.9 | 2413.5 | 2189.6 | 1803.9 | 1953.2 | 2488.2 | 2463.3 | 2301.6 | 2463.3 | 2401.1 |
| 77.5° | 2239.4 | 2139.8 | 2090.1 | 1940.8 | 1580.0 | 1729.3 | 2314.0 | 2264.2 | 2052.7 | 2065.2 | 1953.2 |
| 80° | 1629.7 | 1654.6 | 1791.5 | 1654.6 | 1318.7 | 1430.7 | 1953.2 | 1928.3 | 1667.1 | 1716.8 | 1580.0 |
| 82.5° | 1169.4 | 1231.6 | 1530.2 | 1331.2 | 957.9 | 1020.1 | 1343.6 | 1455.6 | 1306.3 | 1231.6 | 1256.5 |
| 85° | 883.3 | 920.6 | 1231.6 | 982.8 | 597.2 | 671.8 | 920.6 | 1045.0 | 1020.1 | 945.5 | 957.9 |
| 87.5° | 373.2 | 423.0 | 572.3 | 460.3 | 348.3 | 348.3 | 572.3 | 734.0 | 659.4 | 559.8 | 584.7 |
| 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: SP1-2407-184-10

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-835-U-5WQ

Data in this report applies to families of products including GSS-SB1A-835-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-10
 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-835-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K): 3411
 CIE u': 0.2360
 CIE v': 0.5189
 Duv: 0.0044
 CIE x: 0.4154
 CIE y: 0.4059
 CIE z: 0.1787
 Peak Wavelength (nm): 601
 Dominant Wavelength (nm): 579
 Purity: 46.51914
 Rf: 86.6
 Rg: 95.9

| | | | |
|-----------|------|------|------|
| CRI (Ra): | 83.5 | | |
| R1: | 81.1 | R9: | 6.3 |
| R2: | 88.9 | R10: | 75.4 |
| R3: | 97.2 | R11: | 84.1 |
| R4: | 83.8 | R12: | 69.7 |
| R5: | 81.7 | R13: | 82.8 |
| R6: | 86.9 | R14: | 98.5 |
| R7: | 86.1 | R15: | 72.6 |
| R8: | 62.2 | | |



Test Conditions

Stabilization Time: 35M
 Operation Time: 1H 35M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-10

| 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 |

REPORT NUMBER: SP1-2407-184-10

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 3500K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-10

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 | 311 | NR | 620 | 903 | NR | 750 | 26 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 376 | NR | 625 | 851 | NR | 755 | 22 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 438 | NR | 630 | 797 | NR | 760 | 19 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 491 | NR | 635 | 735 | NR | 765 | 16 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 533 | NR | 640 | 672 | NR | 770 | 14 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 566 | NR | 645 | 607 | NR | 775 | 12 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 592 | NR | 650 | 546 | NR | 780 | 10 | NR | 910 | 0 | NR |
| 395 | 1 | NR | 525 | 608 | NR | 655 | 487 | NR | 785 | 9 | NR | 915 | 0 | NR |
| 400 | 3 | NR | 530 | 625 | NR | 660 | 429 | NR | 790 | 7 | NR | 920 | 0 | NR |
| 405 | 6 | NR | 535 | 642 | NR | 665 | 378 | NR | 795 | 6 | NR | 925 | 0 | NR |
| 410 | 12 | NR | 540 | 657 | NR | 670 | 329 | NR | 800 | 5 | NR | 930 | 0 | NR |
| 415 | 22 | NR | 545 | 677 | NR | 675 | 286 | NR | 805 | 5 | NR | 935 | 0 | NR |
| 420 | 43 | NR | 550 | 701 | NR | 680 | 248 | NR | 810 | 4 | NR | 940 | 0 | NR |
| 425 | 80 | NR | 555 | 728 | NR | 685 | 213 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 140 | NR | 560 | 757 | NR | 690 | 184 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 243 | NR | 565 | 793 | NR | 695 | 156 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 412 | NR | 570 | 831 | NR | 700 | 134 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 610 | NR | 575 | 872 | NR | 705 | 114 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 597 | NR | 580 | 911 | NR | 710 | 97 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 412 | NR | 585 | 944 | NR | 715 | 83 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 330 | NR | 590 | 974 | NR | 720 | 70 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 274 | NR | 595 | 992 | NR | 725 | 60 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 211 | NR | 600 | 999 | NR | 730 | 51 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 200 | NR | 605 | 992 | NR | 735 | 43 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 220 | NR | 610 | 975 | NR | 740 | 36 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 255 | NR | 615 | 944 | NR | 745 | 31 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2407-184-10

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.48

| 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 | 311 | NR | 620 | 903 | NR | 750 | 26 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 376 | NR | 625 | 851 | NR | 755 | 22 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 438 | NR | 630 | 797 | NR | 760 | 19 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 491 | NR | 635 | 735 | NR | 765 | 16 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 533 | NR | 640 | 672 | NR | 770 | 14 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 566 | NR | 645 | 607 | NR | 775 | 12 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 592 | NR | 650 | 546 | NR | 780 | 10 | NR | 910 | 0 | NR |
| 395 | 1 | NR | 525 | 608 | NR | 655 | 487 | NR | 785 | 9 | NR | 915 | 0 | NR |
| 400 | 3 | NR | 530 | 625 | NR | 660 | 429 | NR | 790 | 7 | NR | 920 | 0 | NR |
| 405 | 6 | NR | 535 | 642 | NR | 665 | 378 | NR | 795 | 6 | NR | 925 | 0 | NR |
| 410 | 12 | NR | 540 | 657 | NR | 670 | 329 | NR | 800 | 5 | NR | 930 | 0 | NR |
| 415 | 22 | NR | 545 | 677 | NR | 675 | 286 | NR | 805 | 5 | NR | 935 | 0 | NR |
| 420 | 43 | NR | 550 | 701 | NR | 680 | 248 | NR | 810 | 4 | NR | 940 | 0 | NR |
| 425 | 80 | NR | 555 | 728 | NR | 685 | 213 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 140 | NR | 560 | 757 | NR | 690 | 184 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 243 | NR | 565 | 793 | NR | 695 | 156 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 412 | NR | 570 | 831 | NR | 700 | 134 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 610 | NR | 575 | 872 | NR | 705 | 114 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 597 | NR | 580 | 911 | NR | 710 | 97 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 412 | NR | 585 | 944 | NR | 715 | 83 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 330 | NR | 590 | 974 | NR | 720 | 70 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 274 | NR | 595 | 992 | NR | 725 | 60 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 211 | NR | 600 | 999 | NR | 730 | 51 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 200 | NR | 605 | 992 | NR | 735 | 43 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 220 | NR | 610 | 975 | NR | 740 | 36 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 255 | NR | 615 | 944 | NR | 745 | 31 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2407-184-10

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.88

| 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 | 311 | NR | 620 | 903 | NR | 750 | 26 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 376 | NR | 625 | 851 | NR | 755 | 22 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 438 | NR | 630 | 797 | NR | 760 | 19 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 491 | NR | 635 | 735 | NR | 765 | 16 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 533 | NR | 640 | 672 | NR | 770 | 14 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 566 | NR | 645 | 607 | NR | 775 | 12 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 592 | NR | 650 | 546 | NR | 780 | 10 | NR | 910 | 0 | NR |
| 395 | 1 | NR | 525 | 608 | NR | 655 | 487 | NR | 785 | 9 | NR | 915 | 0 | NR |
| 400 | 3 | NR | 530 | 625 | NR | 660 | 429 | NR | 790 | 7 | NR | 920 | 0 | NR |
| 405 | 6 | NR | 535 | 642 | NR | 665 | 378 | NR | 795 | 6 | NR | 925 | 0 | NR |
| 410 | 12 | NR | 540 | 657 | NR | 670 | 329 | NR | 800 | 5 | NR | 930 | 0 | NR |
| 415 | 22 | NR | 545 | 677 | NR | 675 | 286 | NR | 805 | 5 | NR | 935 | 0 | NR |
| 420 | 43 | NR | 550 | 701 | NR | 680 | 248 | NR | 810 | 4 | NR | 940 | 0 | NR |
| 425 | 80 | NR | 555 | 728 | NR | 685 | 213 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 140 | NR | 560 | 757 | NR | 690 | 184 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 243 | NR | 565 | 793 | NR | 695 | 156 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 412 | NR | 570 | 831 | NR | 700 | 134 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 610 | NR | 575 | 872 | NR | 705 | 114 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 597 | NR | 580 | 911 | NR | 710 | 97 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 412 | NR | 585 | 944 | NR | 715 | 83 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 330 | NR | 590 | 974 | NR | 720 | 70 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 274 | NR | 595 | 992 | NR | 725 | 60 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 211 | NR | 600 | 999 | NR | 730 | 51 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 200 | NR | 605 | 992 | NR | 735 | 43 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 220 | NR | 610 | 975 | NR | 740 | 36 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 255 | NR | 615 | 944 | NR | 745 | 31 | NR | 875 | 1 | NR | | | |

Summary

$R_f = 86.6$
 $R_g = 95.9$
 $CIE R_a = 83.5$
 $R_9 = 6.3$



Color Vector Graphics

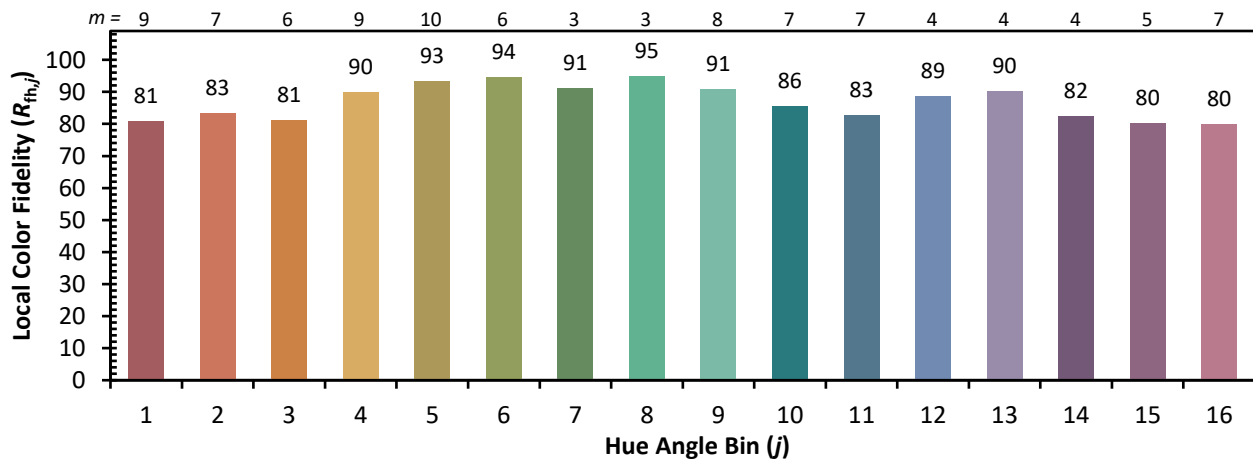


Individual Sample Fidelity Index ($R_{f,i}$)

| | | | |
|------------|-------------|------------|------------|
| CES01 = 86 | CES26 = 85 | CES51 = 97 | CES76 = 81 |
| CES02 = 62 | CES27 = 95 | CES52 = 96 | CES77 = 87 |
| CES03 = 31 | CES28 = 94 | CES53 = 91 | CES78 = 80 |
| CES04 = 70 | CES29 = 87 | CES54 = 92 | CES79 = 93 |
| CES05 = 49 | CES30 = 93 | CES55 = 92 | CES80 = 91 |
| CES06 = 51 | CES31 = 89 | CES56 = 88 | CES81 = 77 |
| CES07 = 41 | CES32 = 84 | CES57 = 87 | CES82 = 96 |
| CES08 = 40 | CES33 = 91 | CES58 = 88 | CES83 = 95 |
| CES09 = 29 | CES34 = 91 | CES59 = 93 | CES84 = 92 |
| CES10 = 75 | CES35 = 95 | CES60 = 94 | CES85 = 80 |
| CES11 = 58 | CES36 = 90 | CES61 = 91 | CES86 = 72 |
| CES12 = 64 | CES37 = 95 | CES62 = 95 | CES87 = 86 |
| CES13 = 43 | CES38 = 100 | CES63 = 88 | CES88 = 88 |
| CES14 = 74 | CES39 = 97 | CES64 = 85 | CES89 = 77 |
| CES15 = 71 | CES40 = 94 | CES65 = 80 | CES90 = 88 |
| CES16 = 47 | CES41 = 97 | CES66 = 84 | CES91 = 81 |
| CES17 = 49 | CES42 = 96 | CES67 = 82 | CES92 = 67 |
| CES18 = 56 | CES43 = 93 | CES68 = 85 | CES93 = 81 |
| CES19 = 72 | CES44 = 99 | CES69 = 89 | CES94 = 63 |
| CES20 = 66 | CES45 = 95 | CES70 = 81 | CES95 = 76 |
| CES21 = 86 | CES46 = 91 | CES71 = 79 | CES96 = 84 |
| CES22 = 78 | CES47 = 93 | CES72 = 93 | CES97 = 92 |
| CES23 = 91 | CES48 = 85 | CES73 = 76 | CES98 = 86 |
| CES24 = 90 | CES49 = 92 | CES74 = 95 | CES99 = 77 |
| CES25 = 72 | CES50 = 96 | CES75 = 80 | |



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)