

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



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P1065351

Luminaire Tested: **GLAN-SA1C-827-U-LBC**

Issue Date: 08/07/2025



Test Information

Test Method: LM-79-08
Report Number: P1065351
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1C-827-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 1xLight Square PACKAGE
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

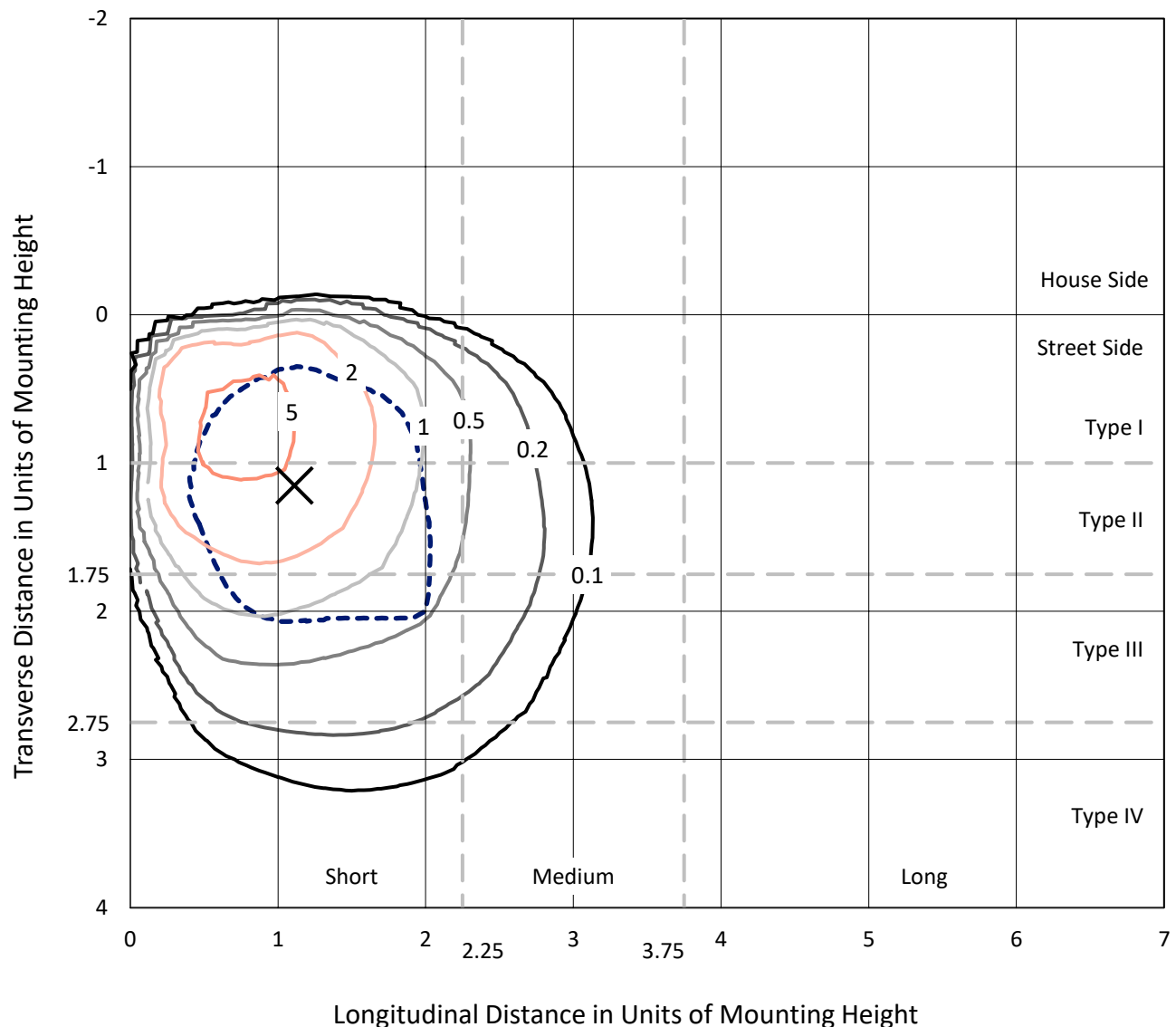
Lumens per Lamp: N/A
Luminaire Lumens: 4464 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 50.2
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

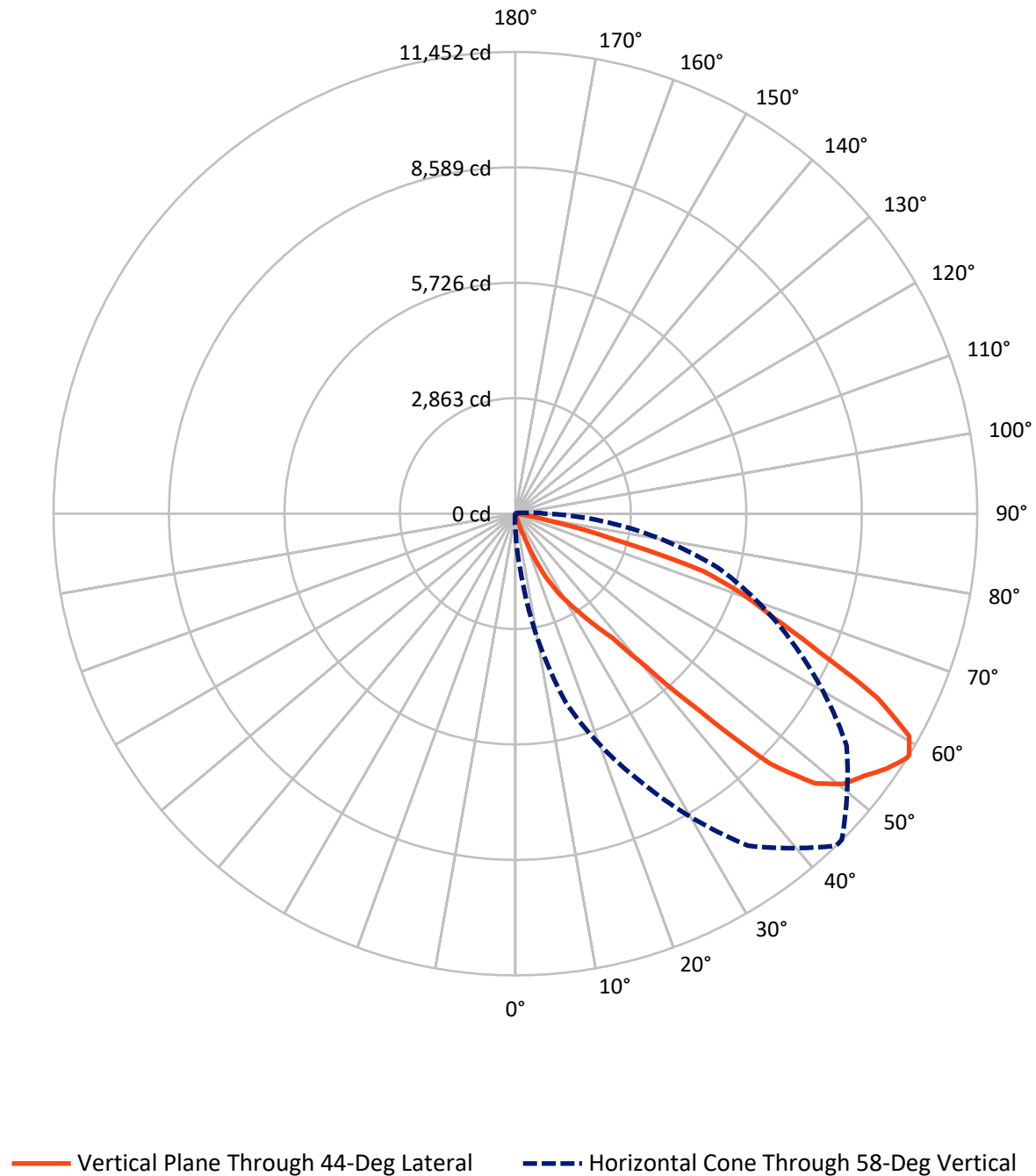
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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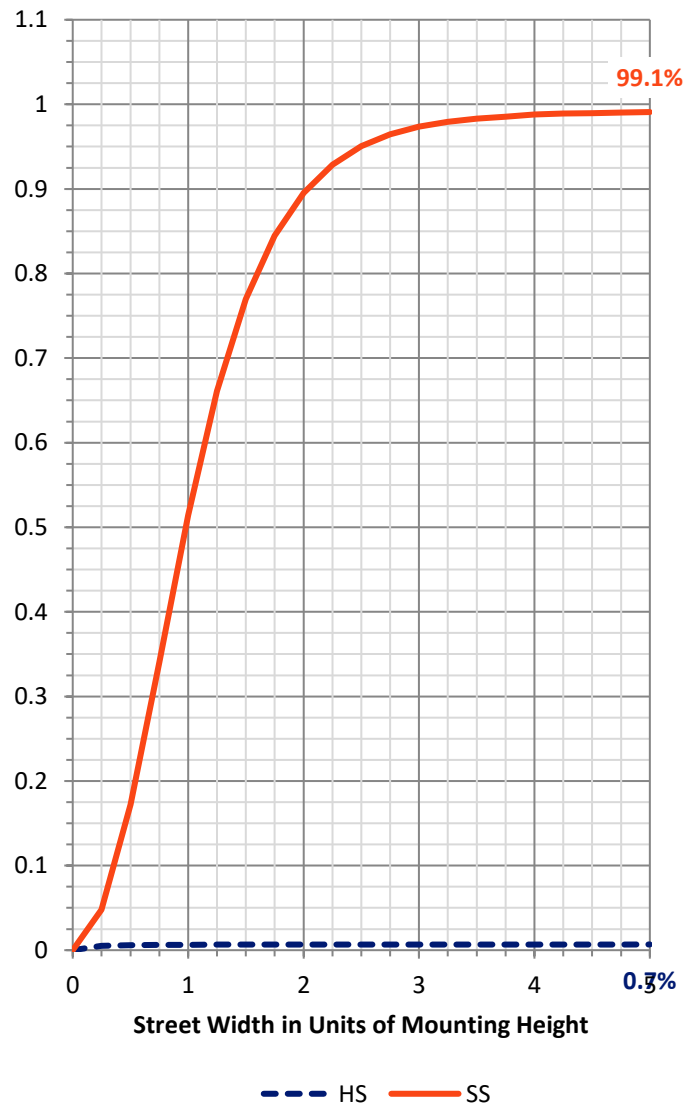
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	30.5	0.0	30.5
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	4433.5	0.0	4433.5
	% Fixture	99.3	0.0	99.3
Total	Lumens	4464.0	0.0	4464.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.7	0.0
10°-20°	9.8	0.2
20°-30°	105.8	2.4
30°-40°	312.7	7.0
40°-50°	932.1	20.9
50°-60°	1479.1	33.1
60°-70°	1233.7	27.6
70°-80°	380.5	8.5
80°-90°	8.5	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4464.0	100.0
0°-180°	4464.0	100.0

Coefficient of Utilization



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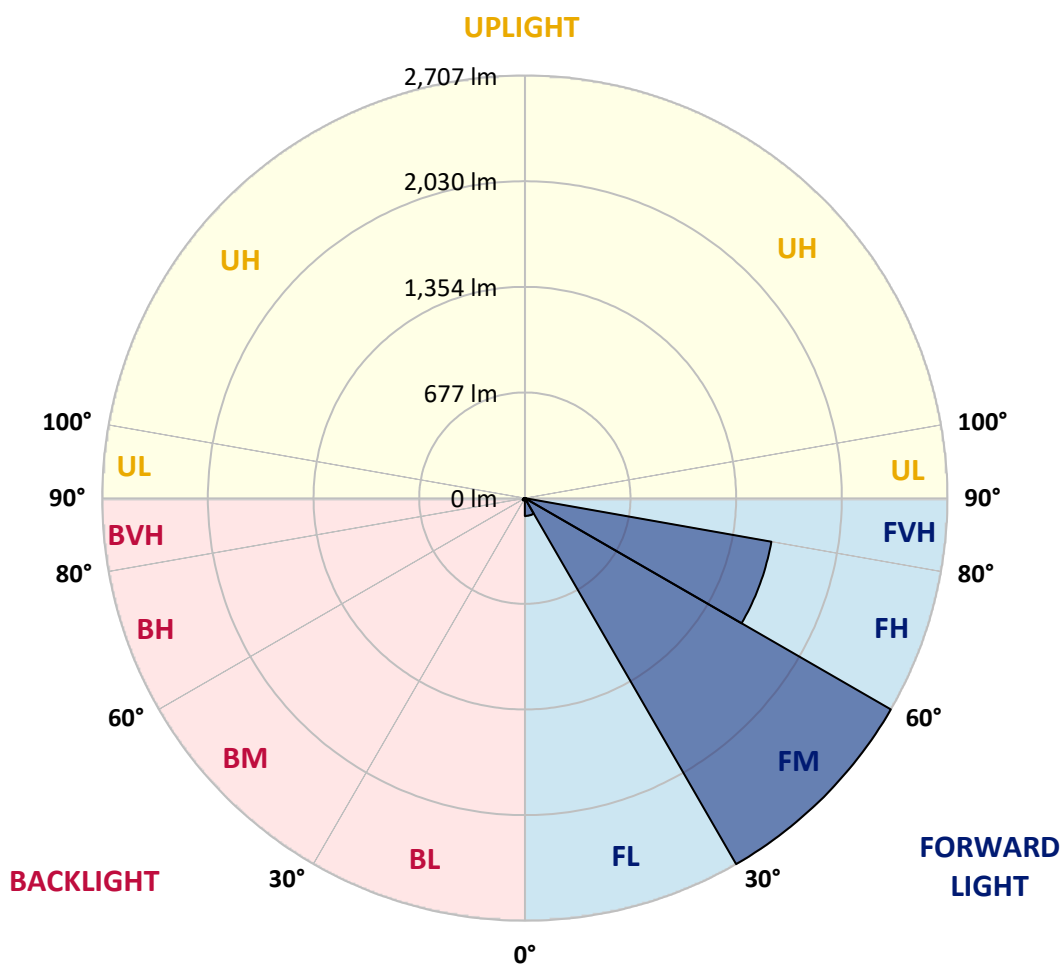
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	114.3	2.6			
FM	(30°-60°)	2707.3	60.6			
FH	(60°-80°)	1603.8	35.9			G1/1800
FVH	(80°-90°)	8.0	0.2			G0/10
BL	(0°-30°)	3.0	0.1	B0/110		
BM	(30°-60°)	16.7	0.4	B0/220		
BH	(60°-80°)	10.4	0.2	B0/110		G0/110
BVH	(80°-90°)	0.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6
2.5°	25.3	25.3	24.3	22.9	21.6	20.2	19.9	19.2	18.9	18.5
5°	26.3	26.3	26.0	25.0	23.6	22.6	22.6	21.6	20.9	20.2
7.5°	27.0	27.3	28.0	27.7	27.0	26.0	26.0	25.3	24.3	22.6
10°	28.0	29.0	30.3	31.0	31.4	31.4	31.0	30.7	29.0	26.6
12.5°	29.0	31.0	34.4	37.8	39.8	42.5	42.2	41.5	37.1	32.0
15°	31.0	34.1	41.1	50.9	66.1	75.5	79.2	75.9	61.4	43.2
17.5°	33.4	38.4	59.7	106.6	174.7	207.0	226.6	210.8	139.6	81.9
20°	35.7	46.9	110.9	276.2	453.2	559.1	588.4	542.6	348.3	156.1
22.5°	39.8	65.8	224.9	570.9	976.6	1135.4	1165.4	1018.7	657.9	308.2
25°	48.2	95.4	387.8	930.4	1457.4	1725.5	1713.1	1520.8	1067.3	492.3
27.5°	60.4	138.9	586.4	1321.9	1918.1	2154.5	2182.8	1945.1	1422.7	724.0
30°	77.9	192.5	799.5	1635.5	2287.3	2542.9	2547.7	2301.8	1740.7	927.3
32.5°	94.8	243.1	986.0	1938.6	2651.2	2931.4	2952.3	2649.8	1978.1	1139.1
35°	107.6	276.2	1174.9	2205.0	3018.1	3404.2	3402.8	3043.7	2259.3	1328.3
37.5°	108.6	309.2	1345.8	2477.5	3482.8	3915.1	3957.9	3562.0	2599.3	1562.3
40°	106.2	346.3	1562.3	2902.4	4320.1	4983.4	5021.1	4522.1	3281.1	1962.9
42.5°	108.9	410.7	1913.7	3687.1	5710.4	6663.0	6735.9	6211.2	4534.5	2780.3
45°	123.1	531.8	2649.8	4999.9	7692.2	8853.6	8829.3	8073.6	5993.0	4024.7
47.5°	170.0	828.2	3741.1	6277.6	8958.8	9993.0	10013.9	9090.3	6844.1	4981.3
50°	261.3	1267.3	4657.9	6953.0	9503.4	10541.0	10521.4	9454.2	7167.5	5452.4
52.5°	339.9	1584.9	5117.9	7190.1	9573.2	10811.8	10810.4	9549.9	7217.7	5492.9
55°	359.5	1608.9	5121.6	7202.9	9729.7	11166.2	11210.7	9785.6	7282.8	5316.2
57.5°	351.7	1424.4	4907.8	7277.1	10008.2	11440.4	11442.7	10013.9	7448.1	5207.9
58°	345.0	1395.4	4864.7	7319.2	10056.1	11451.8	11446.1	10024.4	7582.6	5203.9
60°	307.2	1211.6	4696.4	7426.8	9984.9	11216.4	11162.8	9796.1	7562.7	5162.4
62.5°	241.4	945.2	4530.8	7302.4	9222.2	10077.0	10099.2	8672.8	6894.4	4920.6
65°	192.2	704.4	4185.5	6405.4	7594.1	8275.3	8358.2	7052.5	5754.6	4166.6
67.5°	153.1	509.2	3511.1	5099.7	6009.2	6906.5	6966.9	5921.2	4458.3	3192.4
70°	124.4	344.3	2423.6	3729.6	4956.4	5965.3	5969.0	4919.0	3327.6	2091.7
72.5°	110.3	238.4	1406.9	2720.0	4018.9	4861.0	4762.8	3991.6	2557.4	1238.9
75°	95.4	158.2	689.9	1662.8	2436.7	2453.2	2490.7	1851.6	1278.4	589.1
77.5°	78.6	112.3	271.8	454.2	730.7	935.4	970.2	735.1	425.2	145.0
80°	54.0	53.3	73.2	139.3	209.1	262.0	244.5	189.2	111.3	55.6
82.5°	23.3	25.3	33.0	39.8	32.4	31.4	30.0	19.2	14.8	11.5
85°	7.4	6.7	7.1	7.1	5.7	4.4	4.4	2.0	0.0	0.0
87.5°	3.7	3.0	3.0	2.7	1.7	0.7	0.3	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

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
19.6	0°	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6
18.2	2.5°	17.9	17.9	17.2	16.5	16.2	15.5	15.2	14.8	14.5	14.2
19.6	5°	18.9	18.5	17.5	16.5	15.5	14.5	13.8	13.2	12.5	12.1
21.6	7.5°	20.6	19.9	17.9	16.2	14.8	13.5	12.8	11.8	11.1	10.1
23.9	10°	22.6	21.2	18.5	16.5	14.5	12.8	11.8	10.8	9.8	8.4
27.3	12.5°	25.3	22.9	19.6	16.2	13.8	11.8	10.8	9.4	8.4	7.4
31.7	15°	27.7	24.6	19.9	16.2	13.2	10.8	9.4	8.1	7.1	5.7
39.8	17.5°	31.0	26.0	19.6	15.2	12.1	9.4	8.1	7.1	5.4	3.4
59.0	20°	36.8	27.0	18.9	14.2	10.5	7.8	6.1	4.7	2.4	0.7
88.7	22.5°	45.9	29.7	18.2	12.8	9.1	6.1	4.0	1.7	0.0	0.0
134.9	25°	63.4	34.4	18.2	12.1	8.1	4.4	1.3	0.0	0.0	0.0
191.5	27.5°	84.3	40.8	18.2	10.5	6.4	2.4	0.0	0.0	0.0	0.0
261.0	30°	105.5	47.9	18.2	9.1	5.1	0.3	0.0	0.0	0.0	0.0
321.4	32.5°	125.8	54.0	18.5	7.8	3.4	0.0	0.0	0.0	0.0	0.0
405.0	35°	146.4	55.0	18.2	6.7	2.0	0.0	0.0	0.0	0.0	0.0
507.5	37.5°	172.7	52.9	17.2	6.1	1.0	0.0	0.0	0.0	0.0	0.0
667.7	40°	212.4	54.0	16.2	5.7	0.3	0.0	0.0	0.0	0.0	0.0
953.3	42.5°	286.0	58.3	14.8	5.7	0.0	0.0	0.0	0.0	0.0	0.0
1518.5	45°	494.4	78.2	13.5	6.1	0.0	0.0	0.0	0.0	0.0	0.0
2279.6	47.5°	817.7	140.6	13.2	6.1	0.0	0.0	0.0	0.0	0.0	0.0
2745.9	50°	1043.7	177.0	13.8	6.4	0.0	0.0	0.0	0.0	0.0	0.0
2804.3	52.5°	1042.0	197.3	14.5	6.7	1.3	0.0	0.0	0.0	0.0	0.0
2584.8	55°	926.3	201.0	15.5	7.4	4.4	0.0	0.0	0.0	0.0	0.0
2221.2	57.5°	774.2	183.4	17.9	9.1	8.1	0.0	0.0	0.0	0.0	0.0
2164.2	58°	747.3	175.4	18.5	9.4	8.8	0.0	0.0	0.0	0.0	0.0
1877.3	60°	612.4	143.0	23.6	11.8	11.8	0.0	0.0	0.0	0.0	0.0
1539.0	62.5°	422.9	124.8	27.0	15.2	12.1	0.0	0.0	0.0	0.0	0.0
1134.7	65°	299.1	112.6	29.3	16.2	9.8	0.0	0.0	0.0	0.0	0.0
806.3	67.5°	223.6	103.9	32.4	16.5	5.1	0.0	0.0	0.0	0.0	0.0
505.8	70°	171.3	97.5	39.8	17.5	1.3	0.0	0.0	0.0	0.0	0.0
301.5	72.5°	139.6	90.0	48.2	18.2	0.0	0.0	0.0	0.0	0.0	0.0
180.7	75°	115.7	81.3	46.5	19.9	0.0	0.0	0.0	0.0	0.0	0.0
96.4	77.5°	76.9	63.1	42.5	19.9	0.0	0.0	0.0	0.0	0.0	0.0
34.4	80°	27.0	25.0	33.0	17.5	0.0	0.0	0.0	0.0	0.0	0.0
7.1	82.5°	4.0	3.4	4.7	6.1	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

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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
19.6	0°	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6
13.8	2.5°	13.8	13.8	13.5	13.8	13.8	14.5	16.2	18.5	21.2	22.3
11.8	5°	11.5	11.1	10.8	10.8	10.8	11.8	13.2	15.8	18.9	20.2
9.8	7.5°	9.4	9.1	8.8	8.4	8.4	9.1	10.8	13.8	16.9	18.2
8.1	10°	7.8	7.1	6.7	6.4	6.4	7.1	8.8	11.8	15.2	16.5
6.7	12.5°	6.4	5.4	4.7	4.4	4.0	5.1	6.7	9.4	13.2	14.8
5.1	15°	4.4	3.4	2.4	2.0	1.7	2.7	4.4	7.4	11.1	13.2
2.7	17.5°	2.4	1.0	0.3	0.0	0.0	0.7	2.0	5.4	9.1	10.8
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	6.7	8.4
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	4.0	5.7
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.0
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
0.0	30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.7
0.0	90°	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):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
19.6	0°	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6
23.3	2.5°	23.9	23.6	22.9	22.3	22.3	22.3	23.3	24.3	25.3	25.3
20.9	5°	22.3	22.3	21.9	21.2	21.2	21.6	22.9	24.6	26.0	26.3
19.2	7.5°	20.6	21.2	20.6	20.2	20.6	20.9	22.3	24.3	26.3	27.0
17.9	10°	19.6	19.9	19.9	19.6	19.6	20.2	21.6	24.3	27.0	28.0
16.2	12.5°	18.2	18.9	18.5	18.5	18.5	19.2	20.9	23.9	27.7	29.0
14.5	15°	16.9	17.9	17.9	17.5	17.5	17.9	20.2	23.6	28.7	31.0
12.5	17.5°	15.5	16.5	16.9	16.2	16.2	16.9	19.2	23.6	29.3	33.4
10.1	20°	12.8	14.5	15.5	14.5	14.5	15.2	17.5	22.3	29.7	35.7
7.4	22.5°	10.1	11.8	13.2	12.8	12.8	13.2	16.2	21.2	30.0	39.8
4.4	25°	7.4	9.1	10.1	10.8	10.8	11.8	14.8	20.6	31.4	48.2
2.0	27.5°	4.4	6.4	7.8	8.4	8.8	10.1	13.8	19.9	33.7	60.4
0.0	30°	2.0	3.7	5.4	6.7	6.7	9.1	12.8	19.2	36.8	77.9
0.0	32.5°	0.0	1.7	2.7	4.7	5.1	7.4	11.8	18.5	41.1	94.8
0.0	35°	0.0	0.0	1.3	3.7	3.7	6.1	10.8	17.9	47.9	107.6
0.0	37.5°	0.0	0.0	0.0	2.7	3.0	5.4	10.5	17.5	49.2	108.6
0.0	40°	0.0	0.0	0.0	2.0	2.4	5.1	10.5	17.9	44.5	106.2
0.0	42.5°	0.0	0.0	0.0	1.3	1.7	5.1	10.5	18.5	40.1	108.9
0.0	45°	0.0	0.0	0.0	1.0	1.3	5.4	10.1	18.2	37.8	123.1
0.0	47.5°	0.0	0.0	0.0	1.3	2.0	5.4	9.8	17.9	38.1	170.0
0.0	50°	0.0	0.0	0.0	1.7	2.4	5.4	10.1	17.2	41.8	261.3
0.0	52.5°	0.0	0.0	0.0	1.3	2.0	6.1	11.1	16.9	45.5	339.9
0.0	55°	0.0	0.0	0.0	0.3	1.0	7.8	12.1	16.9	51.3	359.5
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	8.8	13.8	17.9	60.7	351.7
0.0	58°	0.0	0.0	0.0	0.0	0.0	8.8	14.2	17.9	61.4	345.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	8.8	15.5	19.9	66.1	307.2
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	7.4	18.5	25.0	68.8	241.4
0.0	65°	0.0	0.0	0.0	0.0	0.0	6.1	21.9	27.3	70.8	192.2
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	5.7	22.6	27.7	71.8	153.1
0.0	70°	0.0	0.0	0.0	0.0	0.0	6.1	22.3	29.7	75.2	124.4
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	6.7	20.2	32.7	75.2	110.3
0.0	75°	0.0	0.0	0.0	0.0	0.0	7.1	18.9	36.8	68.5	95.4
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	6.7	18.5	42.8	61.0	78.6
0.0	80°	0.7	1.0	1.0	0.7	0.7	5.7	18.2	43.5	51.9	54.0
0.3	82.5°	2.0	2.7	2.4	1.7	1.7	5.1	16.2	36.4	27.0	23.3
2.0	85°	3.7	4.4	4.4	3.7	3.7	4.7	10.1	13.2	9.1	7.4
3.7	87.5°	5.1	5.7	5.7	5.1	5.1	4.7	4.4	4.0	3.7	3.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI



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

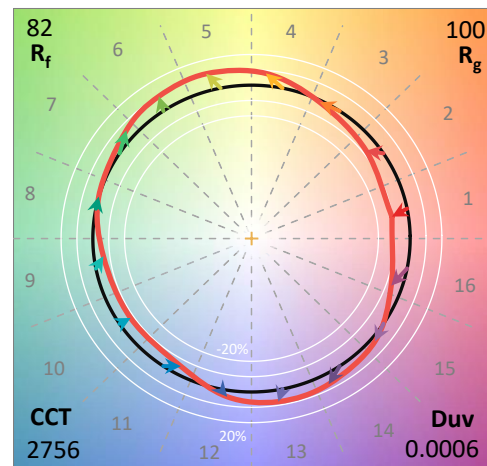
Test Information

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
 R_f: 82.2
 R_g: 99.9

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



Test Conditions

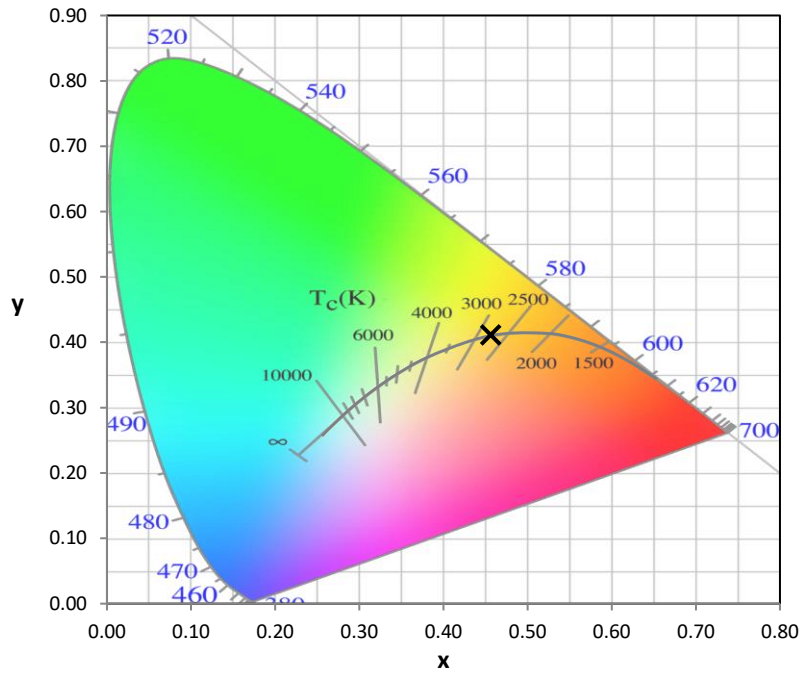
Stabilization Time: 29M
 Operation Time: 1H 29M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-8

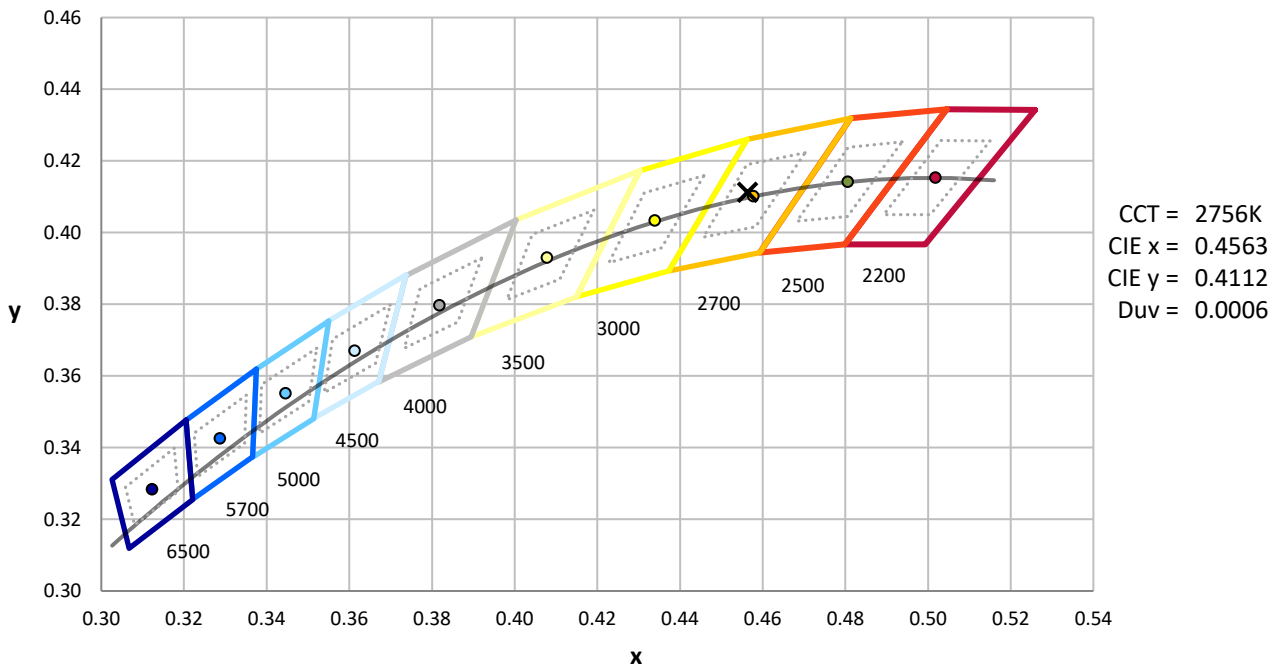
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-8

CIE 1931 Chromaticity Diagram

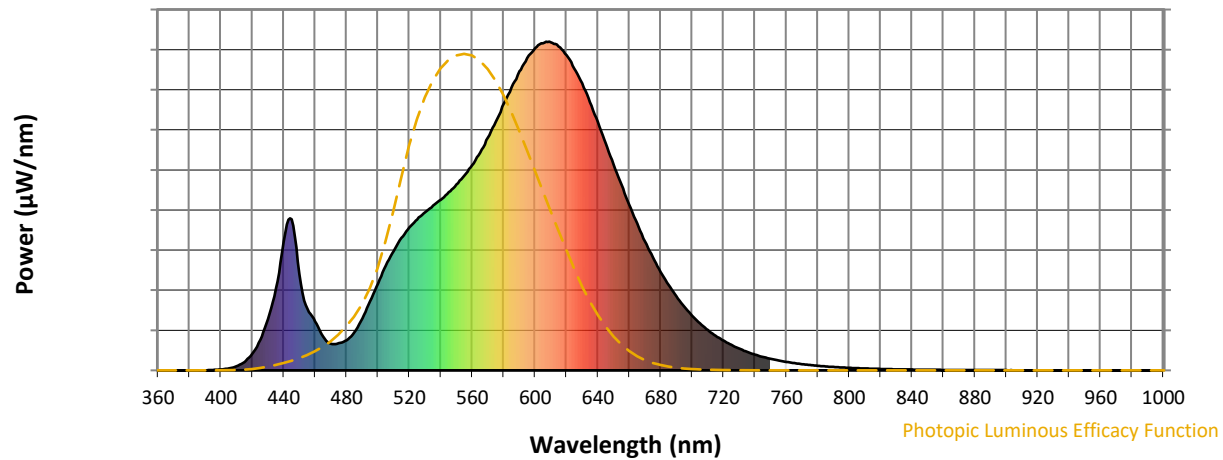


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



REPORT NUMBER: SP1-2407-184-8

Photopic Flux vs. Wavelength

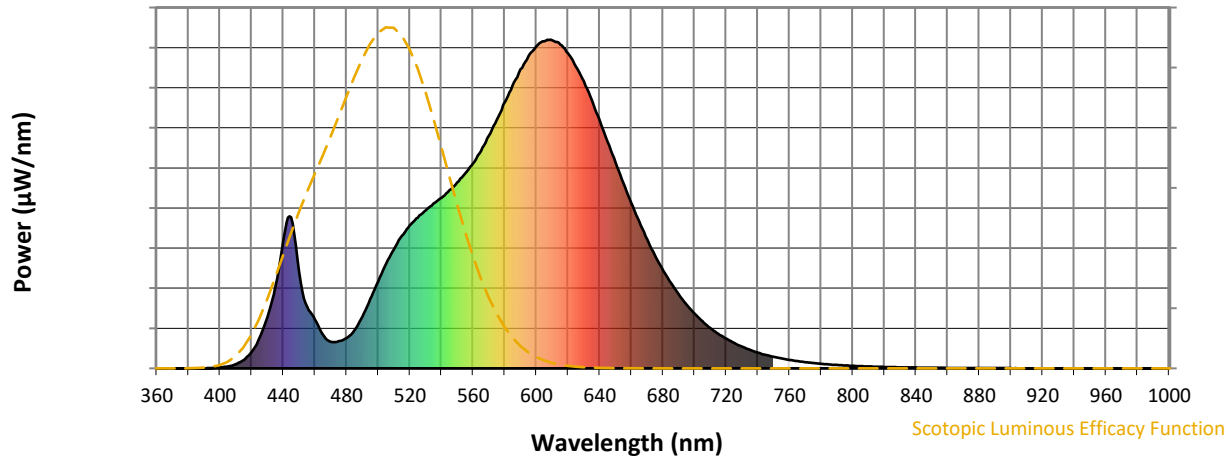


Photopic Lumens: NR

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	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

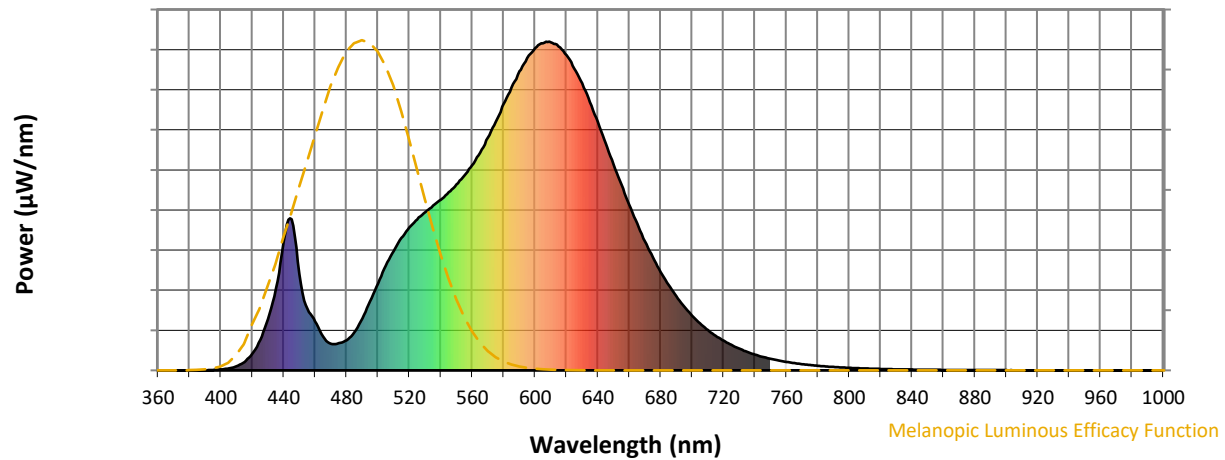
Scotopic Flux vs. Wavelength


Scotopic Lumens: NR
S/P: 1.2

λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /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			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.16

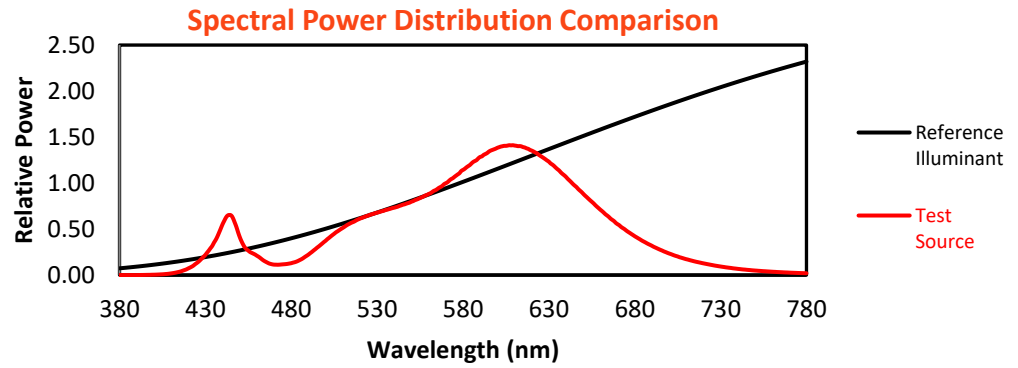
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	158	NR	620	959	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

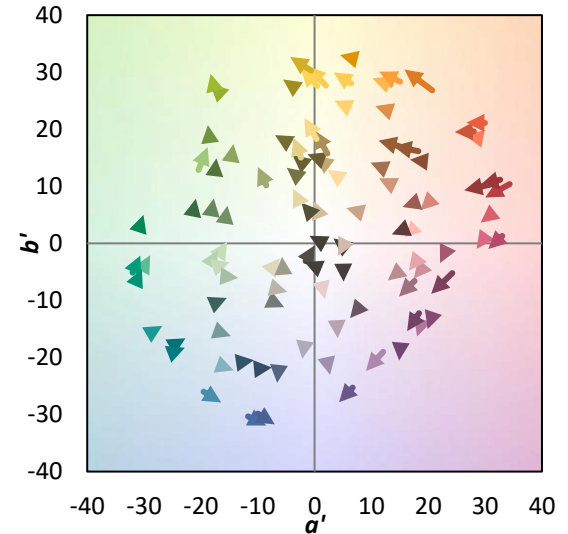
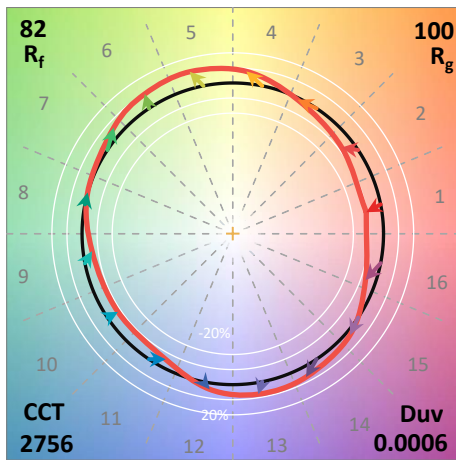
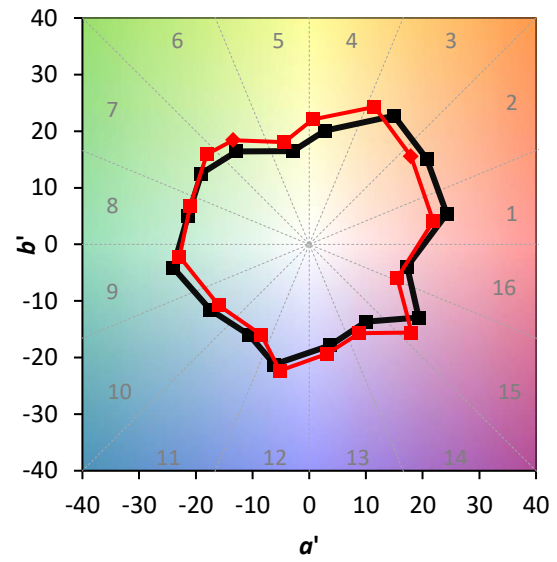
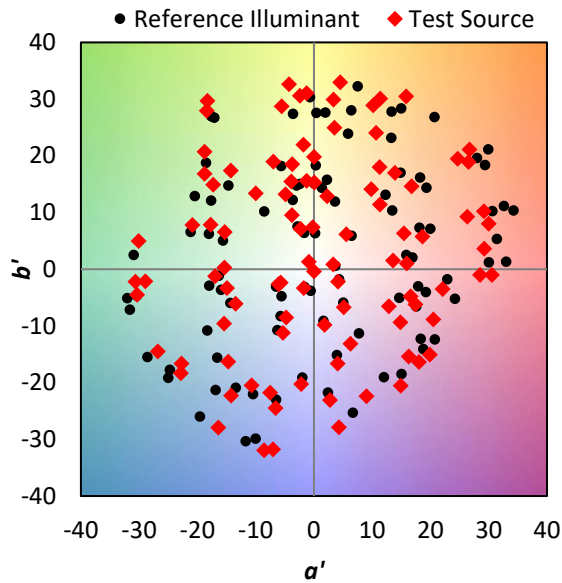
TM-30-18

Summary

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

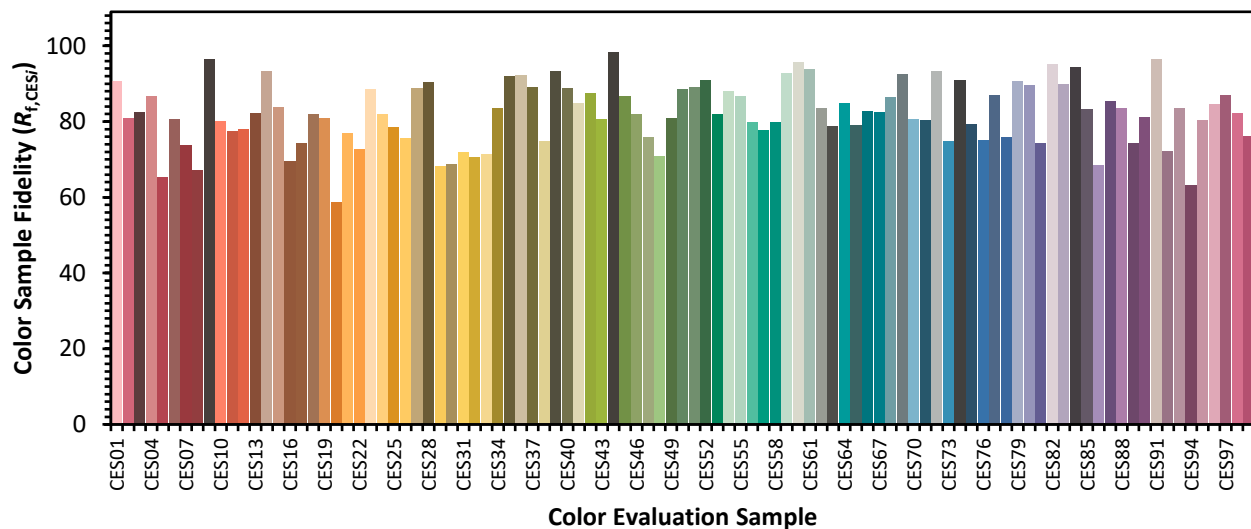


Color Vector Graphics

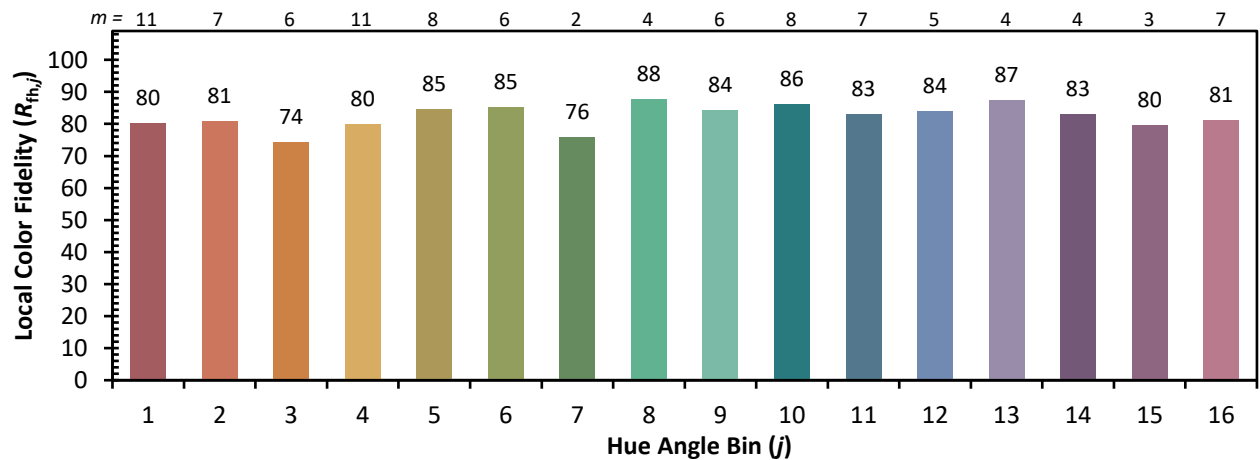
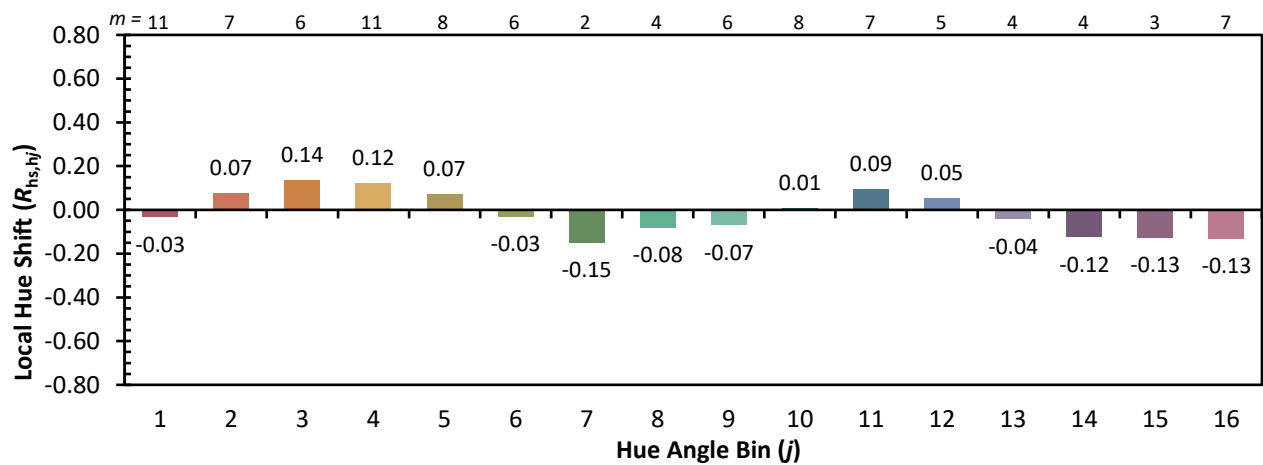
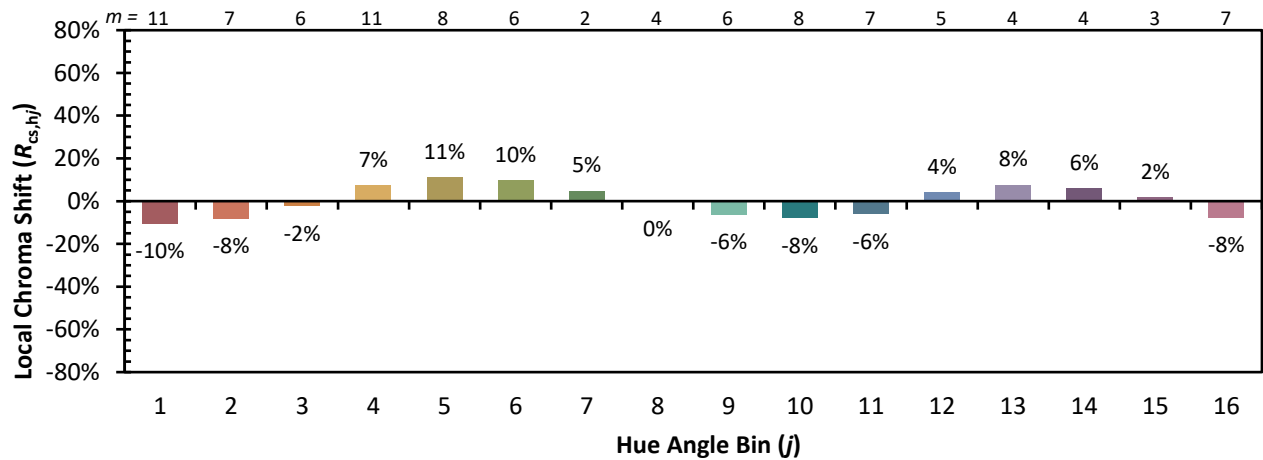


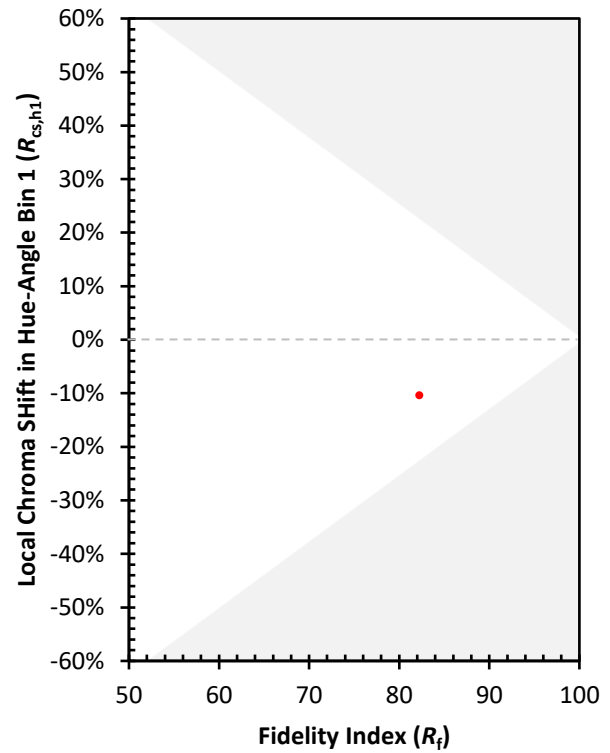
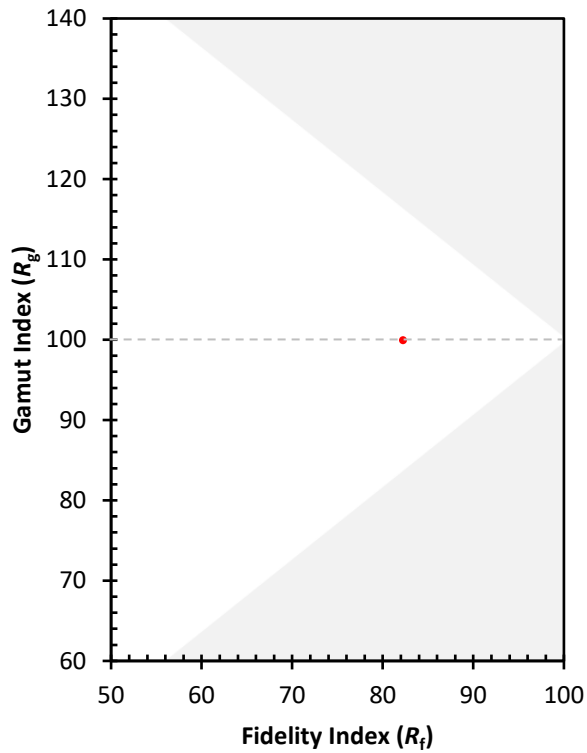
Individual Sample Fidelity Index ($R_{f,i}$)

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)