

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: P1065541

Luminaire Tested: **GLAN-SA4A-927-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1065541
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4A-927-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 4xLight Square PACKAGE
90CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8307.5 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 107.4
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

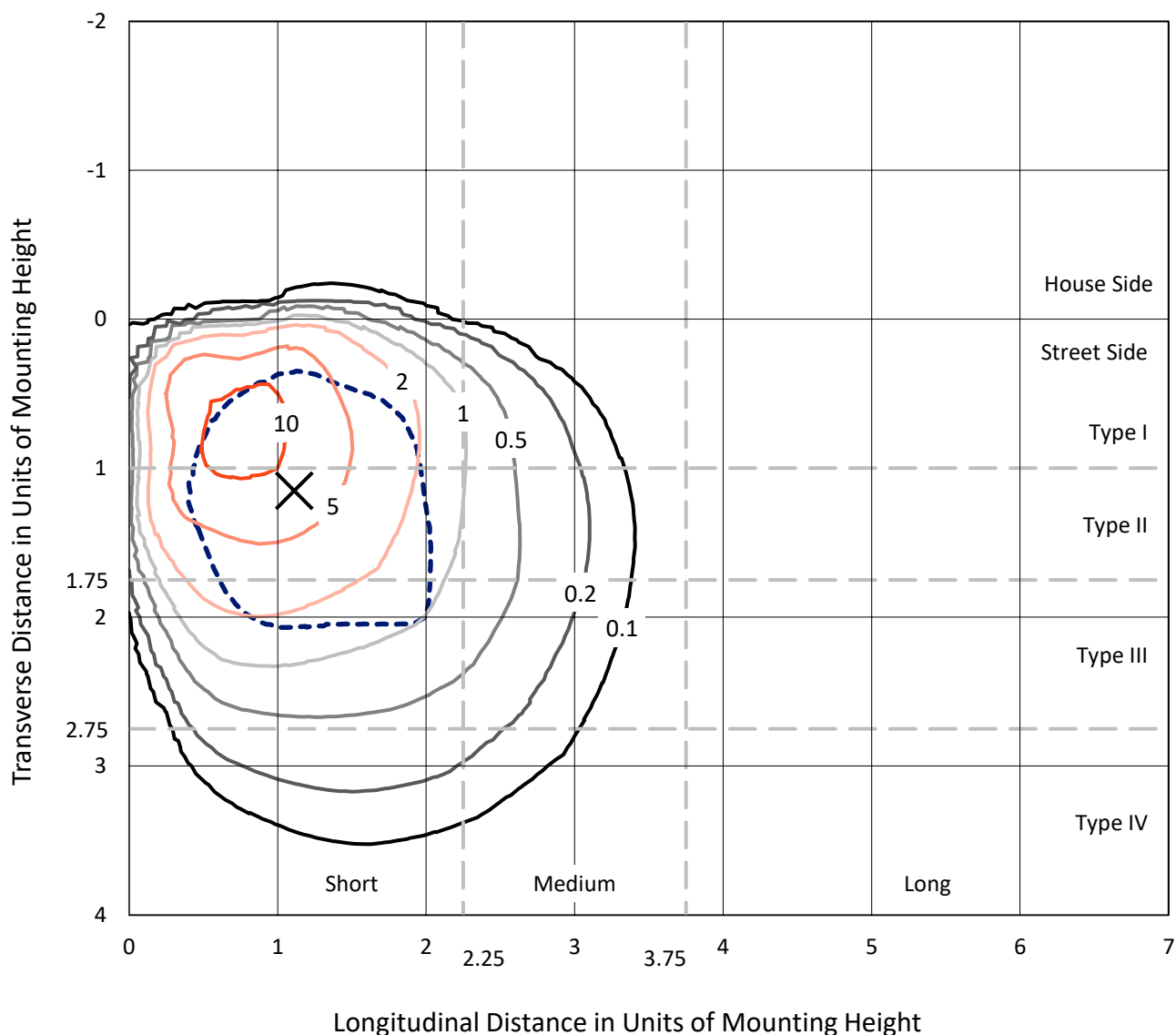
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

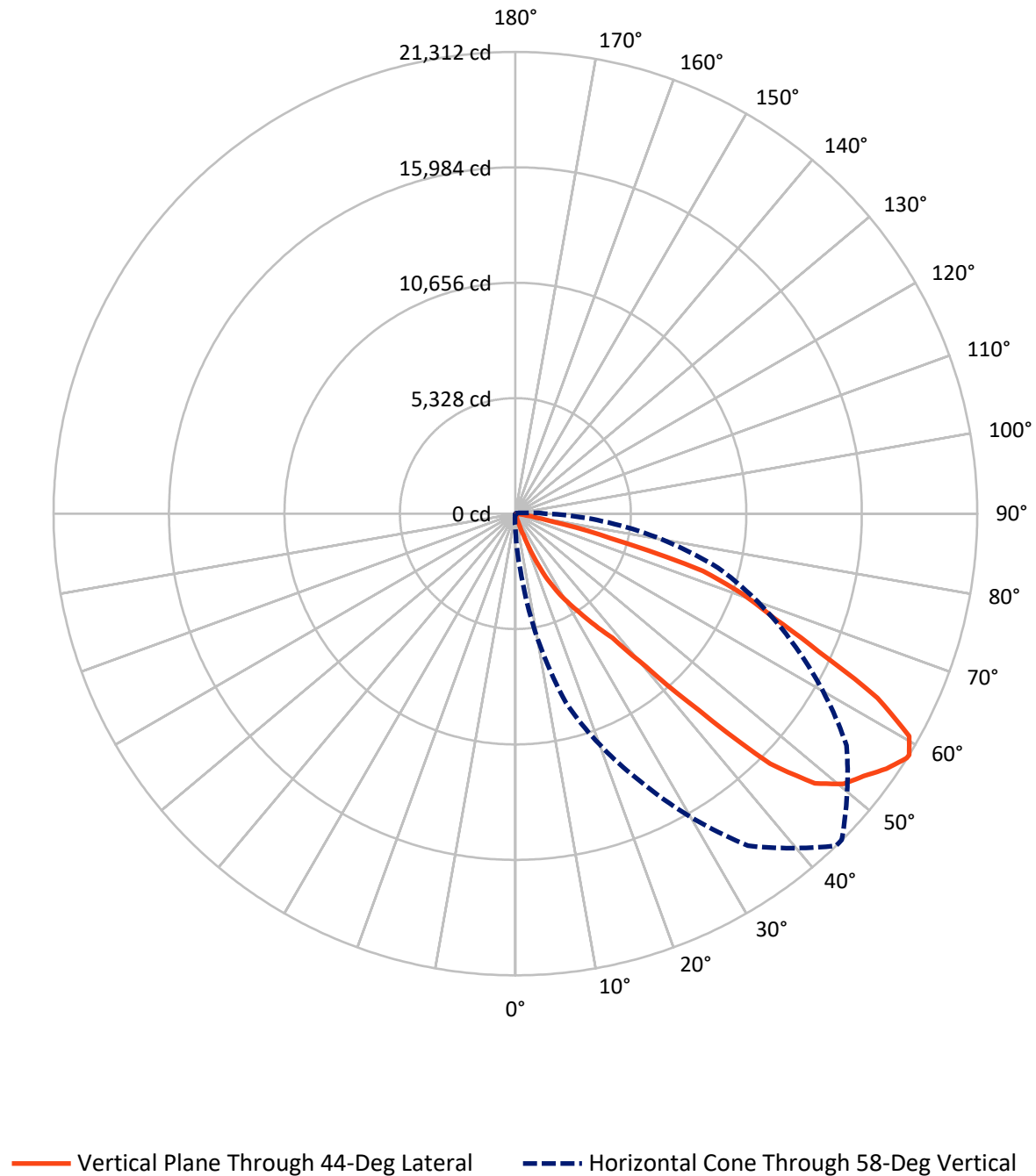


Based on 20 foot mounting height. Maximum calculated value = 14.5 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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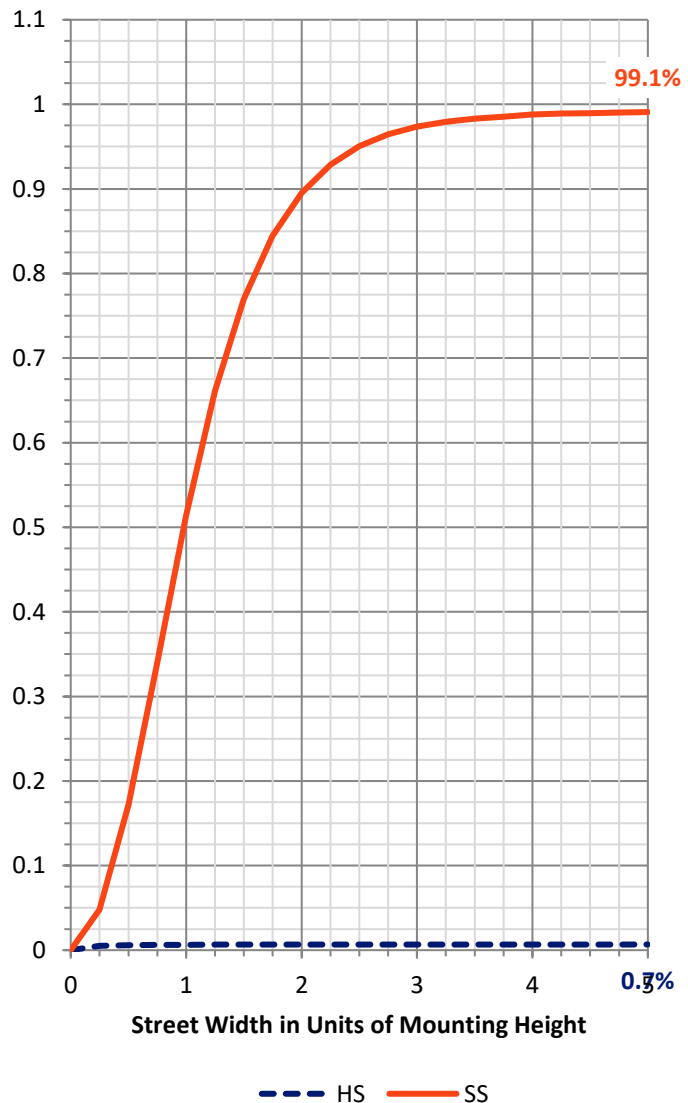
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	56.7	0.0	56.7
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	8250.8	0.0	8250.8
	% Fixture	99.3	0.0	99.3
Total	Lumens	8307.5	0.0	8307.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	0.0
10°-20°	18.2	0.2
20°-30°	196.8	2.4
30°-40°	582.0	7.0
40°-50°	1734.7	20.9
50°-60°	2752.6	33.1
60°-70°	2296.0	27.6
70°-80°	708.1	8.5
80°-90°	15.7	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°	8307.5	100.0
0°-180°	8307.5	100.0



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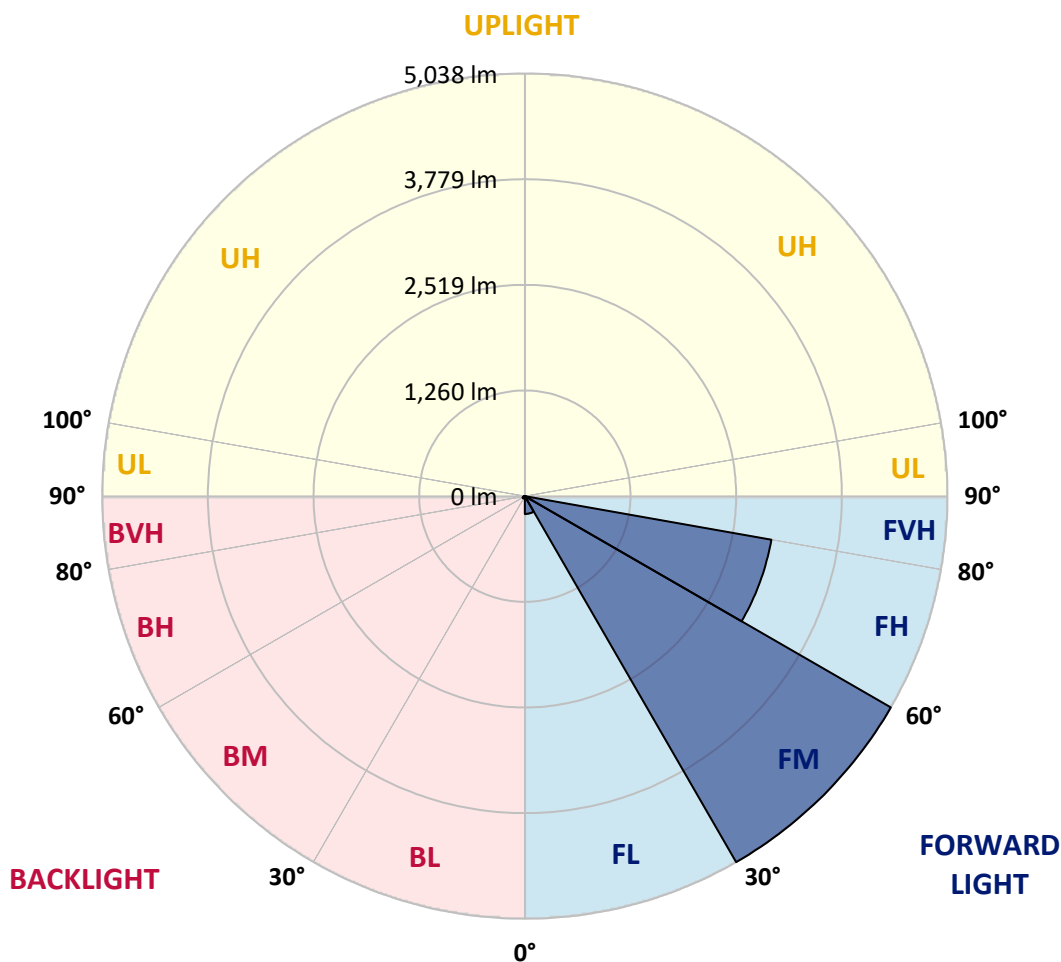
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	212.7	2.6			
FM	(30°-60°)	5038.3	60.6			
FH	(60°-80°)	2984.8	35.9			G2/5000
FVH	(80°-90°)	15.0	0.2			G1/100
BL	(0°-30°)	5.5	0.1	B0/110		
BM	(30°-60°)	31.0	0.4	B0/220		
BH	(60°-80°)	19.4	0.2	B0/110		G0/110
BVH	(80°-90°)	0.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
2.5°	47.1	47.1	45.2	42.7	40.2	37.7	37.0	35.8	35.1	34.5
5°	48.9	48.9	48.3	46.4	43.9	42.0	42.0	40.2	38.9	37.7
7.5°	50.2	50.8	52.1	51.5	50.2	48.3	48.3	47.1	45.2	42.0
10°	52.1	54.0	56.5	57.7	58.4	58.4	57.7	57.1	54.0	49.6
12.5°	54.0	57.7	64.0	70.3	74.1	79.1	78.4	77.2	69.0	59.6
15°	57.7	63.4	76.6	94.8	123.0	140.6	147.5	141.2	114.2	80.3
17.5°	62.1	71.5	111.1	198.3	325.1	385.3	421.7	392.2	259.8	152.5
20°	66.5	87.2	206.5	514.0	843.4	1040.5	1095.1	1009.7	648.3	290.6
22.5°	74.1	122.4	418.6	1062.5	1817.4	2113.0	2168.9	1895.9	1224.4	573.6
25°	89.7	177.6	721.7	1731.4	2712.3	3211.2	3188.0	2830.3	1986.2	916.2
27.5°	112.3	258.6	1091.3	2460.0	3569.6	4009.5	4062.2	3619.8	2647.7	1347.4
30°	145.0	358.3	1487.9	3043.7	4256.7	4732.4	4741.2	4283.7	3239.5	1725.8
32.5°	176.3	452.5	1835.0	3607.8	4933.9	5455.4	5494.3	4931.4	3681.3	2119.9
35°	200.2	514.0	2186.4	4103.6	5616.7	6335.2	6332.7	5664.4	4204.7	2472.0
37.5°	202.1	575.5	2504.6	4610.7	6481.5	7286.0	7365.7	6628.9	4837.2	2907.5
40°	197.7	644.5	2907.5	5401.4	8039.7	9274.1	9344.4	8415.6	6106.2	3653.0
42.5°	202.7	764.4	3561.4	6861.8	10627.1	12400.0	12535.5	11559.0	8438.8	5174.2
45°	229.1	989.7	4931.4	9304.8	14315.3	16476.6	16431.4	15025.1	11153.0	7489.9
47.5°	316.3	1541.3	6962.2	11682.7	16672.4	18597.1	18636.1	16917.2	12737.0	9270.3
50°	486.4	2358.4	8668.5	12939.7	17685.9	19616.9	19580.5	17594.3	13338.8	10147.0
52.5°	632.6	2949.5	9524.5	13380.9	17815.8	20120.9	20118.4	17772.5	13432.3	10222.3
55°	669.0	2994.1	9531.4	13404.7	18107.0	20780.4	20863.3	18211.2	13553.4	9893.5
57.5°	654.5	2650.8	9133.5	13542.8	18625.4	21290.6	21295.0	18636.1	13860.9	9692.1
58°	642.0	2596.8	9053.2	13621.2	18714.5	21312.0	21301.3	18655.5	14111.3	9684.5
60°	571.7	2254.8	8740.0	13821.4	18582.1	20873.9	20774.2	18230.7	14074.3	9607.3
62.5°	449.3	1759.1	8431.9	13589.8	17162.5	18753.4	18794.8	16140.2	12830.5	9157.4
65°	357.7	1311.0	7789.3	11920.5	14132.7	15400.3	15554.7	13124.8	10709.3	7754.1
67.5°	284.9	947.6	6534.2	9490.6	11183.1	12853.1	12965.4	11019.3	8297.0	5941.1
70°	231.6	640.7	4510.3	6940.8	9223.9	11101.6	11108.5	9154.2	6192.8	3892.8
72.5°	205.2	443.7	2618.2	5061.9	7479.3	9046.3	8863.7	7428.4	4759.4	2305.7
75°	177.6	294.3	1284.0	3094.5	4534.8	4565.5	4635.2	3445.9	2379.1	1096.3
77.5°	146.2	209.0	505.8	845.3	1359.9	1740.9	1805.5	1368.1	791.4	269.9
80°	100.4	99.2	136.2	259.2	389.1	487.6	455.0	352.1	207.1	103.5
82.5°	43.3	47.1	61.5	74.1	60.2	58.4	55.9	35.8	27.6	21.3
85°	13.8	12.6	13.2	13.2	10.7	8.2	8.2	3.8	0.0	0.0
87.5°	6.9	5.6	5.6	5.0	3.1	1.3	0.6	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°
36.4	0°	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
33.9	2.5°	33.3	33.3	32.0	30.8	30.1	28.9	28.2	27.6	27.0	26.4
36.4	5°	35.1	34.5	32.6	30.8	28.9	27.0	25.7	24.5	23.2	22.6
40.2	7.5°	38.3	37.0	33.3	30.1	27.6	25.1	23.8	22.0	20.7	18.8
44.6	10°	42.0	39.5	34.5	30.8	27.0	23.8	22.0	20.1	18.2	15.7
50.8	12.5°	47.1	42.7	36.4	30.1	25.7	22.0	20.1	17.6	15.7	13.8
59.0	15°	51.5	45.8	37.0	30.1	24.5	20.1	17.6	15.1	13.2	10.7
74.1	17.5°	57.7	48.3	36.4	28.2	22.6	17.6	15.1	13.2	10.0	6.3
109.8	20°	68.4	50.2	35.1	26.4	19.5	14.4	11.3	8.8	4.4	1.3
165.0	22.5°	85.3	55.2	33.9	23.8	16.9	11.3	7.5	3.1	0.0	0.0
251.0	25°	118.0	64.0	33.9	22.6	15.1	8.2	2.5	0.0	0.0	0.0
356.5	27.5°	156.9	75.9	33.9	19.5	11.9	4.4	0.0	0.0	0.0	0.0
485.7	30°	196.4	89.1	33.9	16.9	9.4	0.6	0.0	0.0	0.0	0.0
598.1	32.5°	234.1	100.4	34.5	14.4	6.3	0.0	0.0	0.0	0.0	0.0
753.7	35°	272.4	102.3	33.9	12.6	3.8	0.0	0.0	0.0	0.0	0.0
944.5	37.5°	321.3	98.5	32.0	11.3	1.9	0.0	0.0	0.0	0.0	0.0
1242.6	40°	395.4	100.4	30.1	10.7	0.6	0.0	0.0	0.0	0.0	0.0
1774.1	42.5°	532.2	108.6	27.6	10.7	0.0	0.0	0.0	0.0	0.0	0.0
2825.9	45°	920.0	145.6	25.1	11.3	0.0	0.0	0.0	0.0	0.0	0.0
4242.3	47.5°	1521.8	261.7	24.5	11.3	0.0	0.0	0.0	0.0	0.0	0.0
5110.2	50°	1942.3	329.5	25.7	11.9	0.0	0.0	0.0	0.0	0.0	0.0
5218.8	52.5°	1939.2	367.1	27.0	12.6	2.5	0.0	0.0	0.0	0.0	0.0
4810.3	55°	1723.9	374.0	28.9	13.8	8.2	0.0	0.0	0.0	0.0	0.0
4133.7	57.5°	1440.9	341.4	33.3	16.9	15.1	0.0	0.0	0.0	0.0	0.0
4027.7	58°	1390.7	326.3	34.5	17.6	16.3	0.0	0.0	0.0	0.0	0.0
3493.6	60°	1139.7	266.1	43.9	22.0	22.0	0.0	0.0	0.0	0.0	0.0
2864.2	62.5°	787.0	232.2	50.2	28.2	22.6	0.0	0.0	0.0	0.0	0.0
2111.7	65°	556.6	209.6	54.6	30.1	18.2	0.0	0.0	0.0	0.0	0.0
1500.5	67.5°	416.1	193.3	60.2	30.8	9.4	0.0	0.0	0.0	0.0	0.0
941.3	70°	318.8	181.4	74.1	32.6	2.5	0.0	0.0	0.0	0.0	0.0
561.0	72.5°	259.8	167.6	89.7	33.9	0.0	0.0	0.0	0.0	0.0	0.0
336.4	75°	215.3	151.2	86.6	37.0	0.0	0.0	0.0	0.0	0.0	0.0
179.5	77.5°	143.1	117.4	79.1	37.0	0.0	0.0	0.0	0.0	0.0	0.0
64.0	80°	50.2	46.4	61.5	32.6	0.0	0.0	0.0	0.0	0.0	0.0
13.2	82.5°	7.5	6.3	8.8	11.3	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°
36.4	0°	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
25.7	2.5°	25.7	25.7	25.1	25.7	25.7	27.0	30.1	34.5	39.5	41.4
22.0	5°	21.3	20.7	20.1	20.1	20.1	22.0	24.5	29.5	35.1	37.7
18.2	7.5°	17.6	16.9	16.3	15.7	15.7	16.9	20.1	25.7	31.4	33.9
15.1	10°	14.4	13.2	12.6	11.9	11.9	13.2	16.3	22.0	28.2	30.8
12.6	12.5°	11.9	10.0	8.8	8.2	7.5	9.4	12.6	17.6	24.5	27.6
9.4	15°	8.2	6.3	4.4	3.8	3.1	5.0	8.2	13.8	20.7	24.5
5.0	17.5°	4.4	1.9	0.6	0.0	0.0	1.3	3.8	10.0	16.9	20.1
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	12.6	15.7
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	7.5	10.7
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	5.6
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
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	1.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.0
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):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
36.4	0°	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
43.3	2.5°	44.6	43.9	42.7	41.4	41.4	41.4	43.3	45.2	47.1	47.1
38.9	5°	41.4	41.4	40.8	39.5	39.5	40.2	42.7	45.8	48.3	48.9
35.8	7.5°	38.3	39.5	38.3	37.7	38.3	38.9	41.4	45.2	48.9	50.2
33.3	10°	36.4	37.0	37.0	36.4	36.4	37.7	40.2	45.2	50.2	52.1
30.1	12.5°	33.9	35.1	34.5	34.5	34.5	35.8	38.9	44.6	51.5	54.0
27.0	15°	31.4	33.3	33.3	32.6	32.6	33.3	37.7	43.9	53.3	57.7
23.2	17.5°	28.9	30.8	31.4	30.1	30.1	31.4	35.8	43.9	54.6	62.1
18.8	20°	23.8	27.0	28.9	27.0	27.0	28.2	32.6	41.4	55.2	66.5
13.8	22.5°	18.8	22.0	24.5	23.8	23.8	24.5	30.1	39.5	55.9	74.1
8.2	25°	13.8	16.9	18.8	20.1	20.1	22.0	27.6	38.3	58.4	89.7
3.8	27.5°	8.2	11.9	14.4	15.7	16.3	18.8	25.7	37.0	62.8	112.3
0.0	30°	3.8	6.9	10.0	12.6	12.6	16.9	23.8	35.8	68.4	145.0
0.0	32.5°	0.0	3.1	5.0	8.8	9.4	13.8	22.0	34.5	76.6	176.3
0.0	35°	0.0	0.0	2.5	6.9	6.9	11.3	20.1	33.3	89.1	200.2
0.0	37.5°	0.0	0.0	0.0	5.0	5.6	10.0	19.5	32.6	91.6	202.1
0.0	40°	0.0	0.0	0.0	3.8	4.4	9.4	19.5	33.3	82.8	197.7
0.0	42.5°	0.0	0.0	0.0	2.5	3.1	9.4	19.5	34.5	74.7	202.7
0.0	45°	0.0	0.0	0.0	1.9	2.5	10.0	18.8	33.9	70.3	229.1
0.0	47.5°	0.0	0.0	0.0	2.5	3.8	10.0	18.2	33.3	70.9	316.3
0.0	50°	0.0	0.0	0.0	3.1	4.4	10.0	18.8	32.0	77.8	486.4
0.0	52.5°	0.0	0.0	0.0	2.5	3.8	11.3	20.7	31.4	84.7	632.6
0.0	55°	0.0	0.0	0.0	0.6	1.9	14.4	22.6	31.4	95.4	669.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	16.3	25.7	33.3	113.0	654.5
0.0	58°	0.0	0.0	0.0	0.0	0.0	16.3	26.4	33.3	114.2	642.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	16.3	28.9	37.0	123.0	571.7
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	13.8	34.5	46.4	128.0	449.3
0.0	65°	0.0	0.0	0.0	0.0	0.0	11.3	40.8	50.8	131.8	357.7
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	10.7	42.0	51.5	133.7	284.9
0.0	70°	0.0	0.0	0.0	0.0	0.0	11.3	41.4	55.2	139.9	231.6
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	12.6	37.7	60.9	139.9	205.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	13.2	35.1	68.4	127.4	177.6
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	12.6	34.5	79.7	113.6	146.2
0.0	80°	1.3	1.9	1.9	1.3	1.3	10.7	33.9	81.0	96.6	100.4
0.6	82.5°	3.8	5.0	4.4	3.1	3.1	9.4	30.1	67.8	50.2	43.3
3.8	85°	6.9	8.2	8.2	6.9	6.9	8.8	18.8	24.5	16.9	13.8
6.9	87.5°	9.4	10.7	10.7	9.4	9.4	8.8	8.2	7.5	6.9	6.9
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



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: SP1-2407-184-13

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-927-U-5WQ

Data in this report applies to families of products including GSS-SB1A-927-U-5WQ

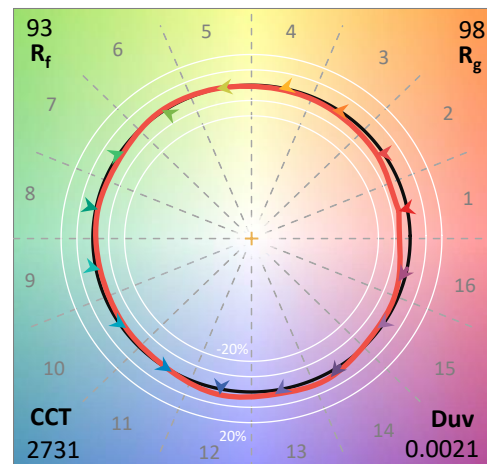
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-13
 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-927-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K): 2731
 CIE u' : 0.2605
 CIE v' : 0.5298
 Duv: 0.0021
 CIE x: 0.4610
 CIE y: 0.4166
 CIE z: 0.1224
 Peak Wavelength (nm): 622
 Dominant Wavelength (nm): 583
 Purity: 63.43685
 R_f: 92.6
 R_g: 98

CRI (Ra): 91.8
 R1: 91.4
 R2: 95.1
 R3: 97.6
 R4: 92.3
 R5: 91.1
 R6: 94.7
 R7: 92.3
 R8: 80.0
 R9: 54.7
 R10: 87.7
 R11: 92.9
 R12: 84.0
 R13: 92.2
 R14: 97.8
 R15: 86.8



Test Conditions

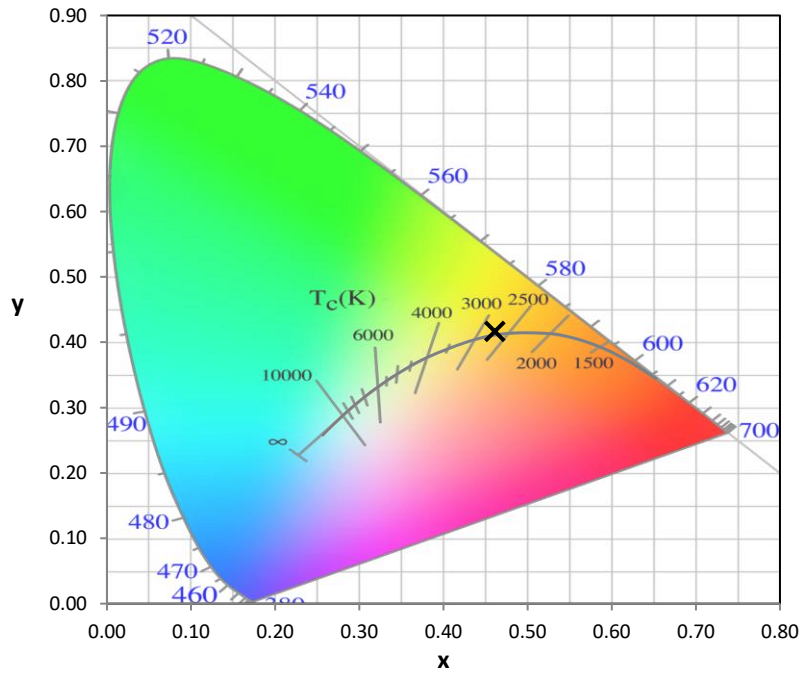
Stabilization Time: M
 Operation Time: 1H 0M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-13

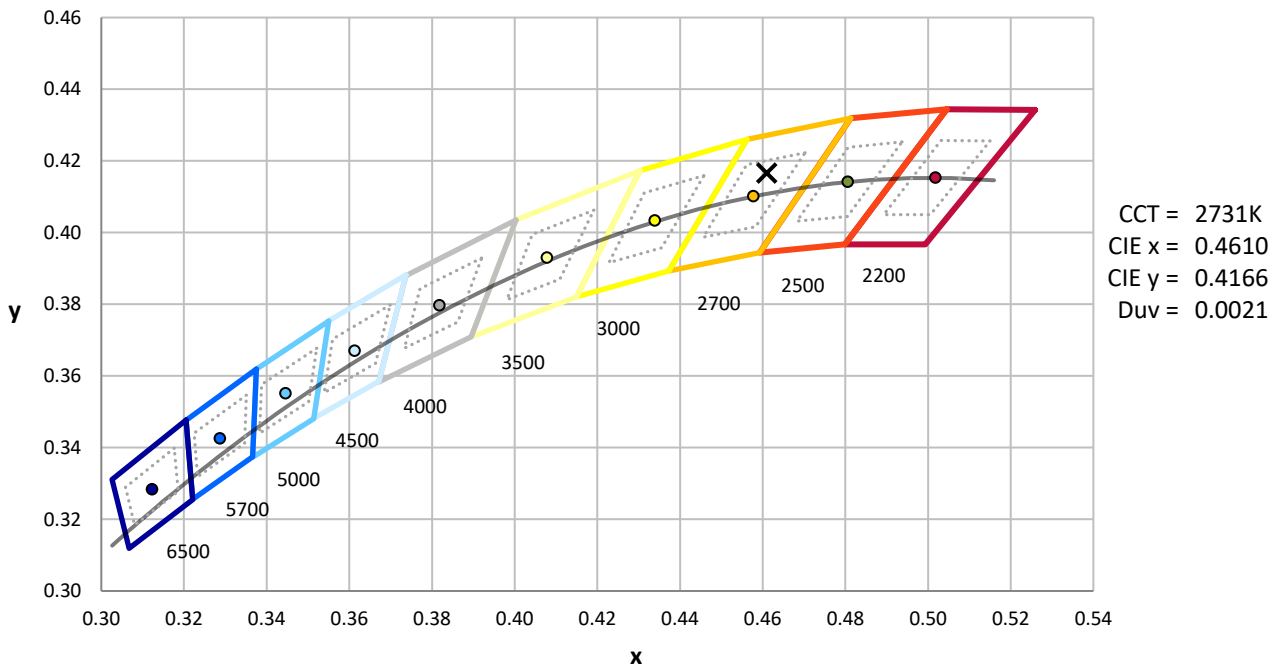
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



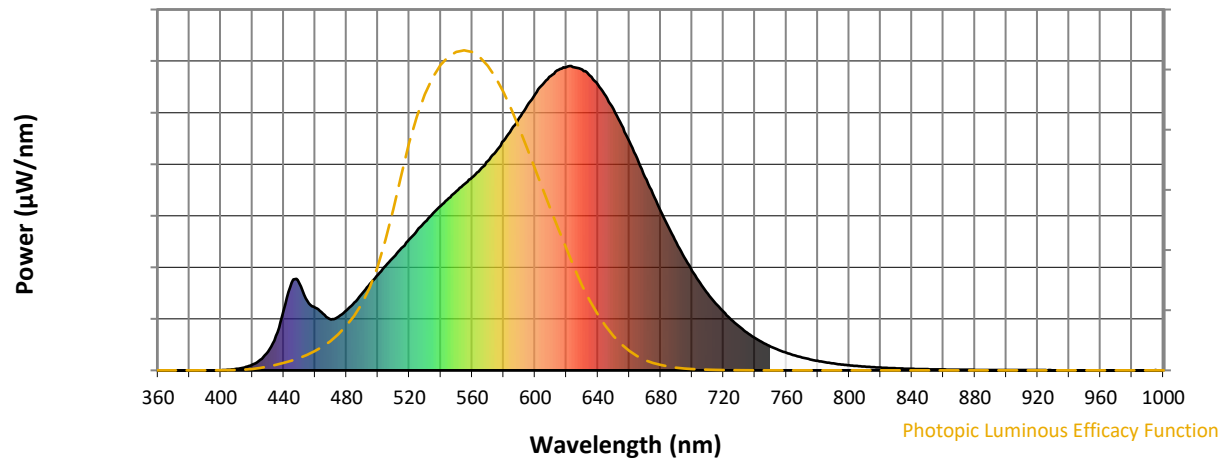
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-13

Photopic Flux vs. Wavelength

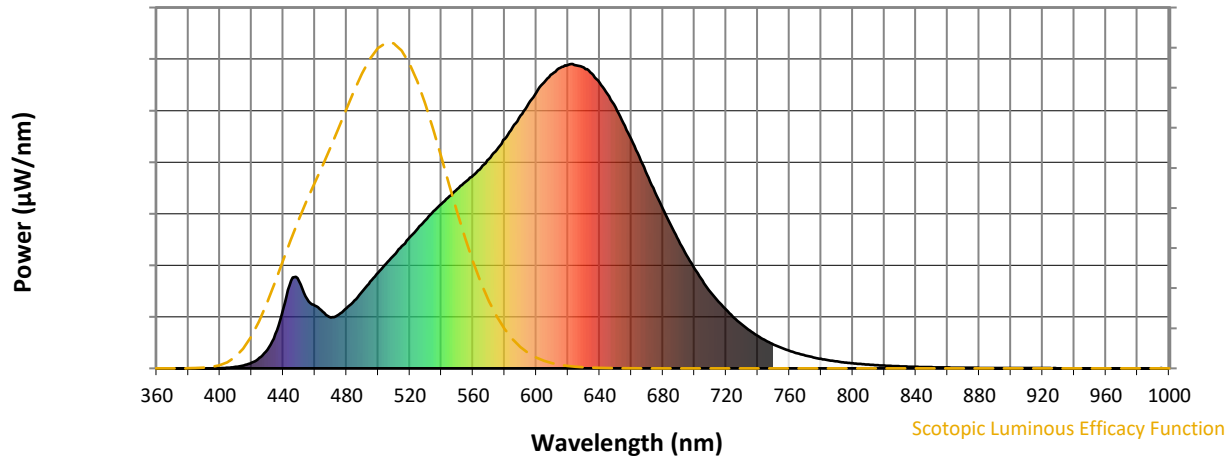


Photopic Lumens: NR

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	253	NR	620	997	NR	750	78	NR	880	2	NR
365	0	NR	495	285	NR	625	996	NR	755	67	NR	885	1	NR
370	0	NR	500	314	NR	630	989	NR	760	58	NR	890	1	NR
375	0	NR	505	343	NR	635	969	NR	765	50	NR	895	1	NR
380	0	NR	510	372	NR	640	939	NR	770	42	NR	900	1	NR
385	0	NR	515	401	NR	645	901	NR	775	36	NR	905	1	NR
390	0	NR	520	431	NR	650	858	NR	780	31	NR	910	1	NR
395	0	NR	525	459	NR	655	806	NR	785	26	NR	915	1	NR
400	0	NR	530	488	NR	660	752	NR	790	23	NR	920	1	NR
405	2	NR	535	516	NR	665	696	NR	795	19	NR	925	1	NR
410	5	NR	540	540	NR	670	636	NR	800	17	NR	930	0	NR
415	10	NR	545	566	NR	675	579	NR	805	14	NR	935	0	NR
420	19	NR	550	589	NR	680	524	NR	810	12	NR	940	0	NR
425	34	NR	555	612	NR	685	470	NR	815	11	NR	945	0	NR
430	61	NR	560	634	NR	690	421	NR	820	9	NR	950	0	NR
435	113	NR	565	660	NR	695	371	NR	825	8	NR	955	0	NR
440	198	NR	570	688	NR	700	327	NR	830	7	NR	960	0	NR
445	288	NR	575	719	NR	705	288	NR	835	6	NR	965	0	NR
450	286	NR	580	754	NR	710	251	NR	840	5	NR	970	0	NR
455	228	NR	585	791	NR	715	220	NR	845	4	NR	975	0	NR
460	207	NR	590	831	NR	720	192	NR	850	4	NR	980	0	NR
465	186	NR	595	870	NR	725	166	NR	855	3	NR	985	0	NR
470	168	NR	600	907	NR	730	144	NR	860	3	NR	990	1	NR
475	177	NR	605	940	NR	735	124	NR	865	2	NR	995	1	NR
480	198	NR	610	967	NR	740	106	NR	870	2	NR	1000	0	NR
485	223	NR	615	988	NR	745	91	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-13

Scotopic Flux vs. Wavelength



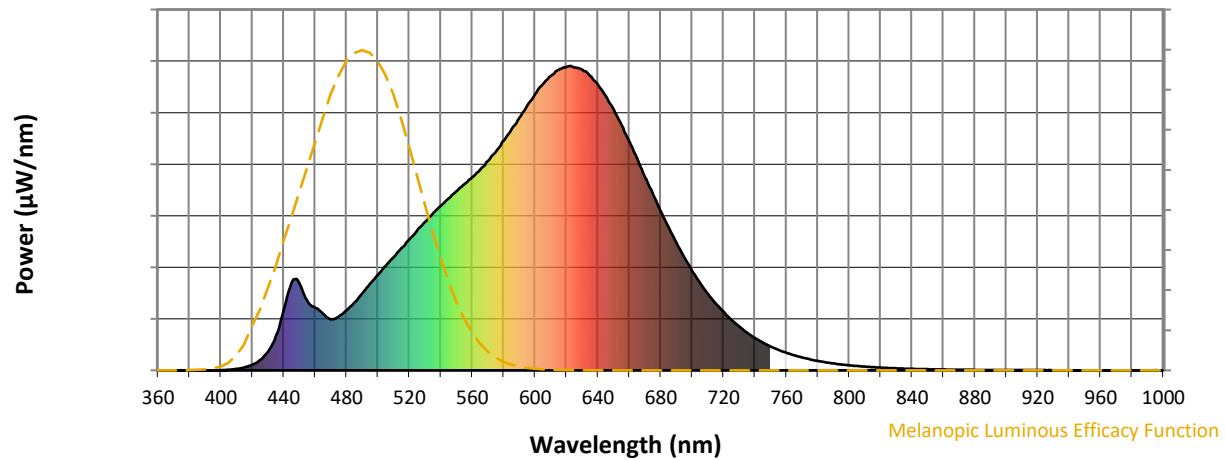
Scotopic Lumens: NR

S/P: 1.27

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	253	NR	620	997	NR	750	78	NR	880	2	NR
365	0	NR	495	285	NR	625	996	NR	755	67	NR	885	1	NR
370	0	NR	500	314	NR	630	989	NR	760	58	NR	890	1	NR
375	0	NR	505	343	NR	635	969	NR	765	50	NR	895	1	NR
380	0	NR	510	372	NR	640	939	NR	770	42	NR	900	1	NR
385	0	NR	515	401	NR	645	901	NR	775	36	NR	905	1	NR
390	0	NR	520	431	NR	650	858	NR	780	31	NR	910	1	NR
395	0	NR	525	459	NR	655	806	NR	785	26	NR	915	1	NR
400	0	NR	530	488	NR	660	752	NR	790	23	NR	920	1	NR
405	2	NR	535	516	NR	665	696	NR	795	19	NR	925	1	NR
410	5	NR	540	540	NR	670	636	NR	800	17	NR	930	0	NR
415	10	NR	545	566	NR	675	579	NR	805	14	NR	935	0	NR
420	19	NR	550	589	NR	680	524	NR	810	12	NR	940	0	NR
425	34	NR	555	612	NR	685	470	NR	815	11	NR	945	0	NR
430	61	NR	560	634	NR	690	421	NR	820	9	NR	950	0	NR
435	113	NR	565	660	NR	695	371	NR	825	8	NR	955	0	NR
440	198	NR	570	688	NR	700	327	NR	830	7	NR	960	0	NR
445	288	NR	575	719	NR	705	288	NR	835	6	NR	965	0	NR
450	286	NR	580	754	NR	710	251	NR	840	5	NR	970	0	NR
455	228	NR	585	791	NR	715	220	NR	845	4	NR	975	0	NR
460	207	NR	590	831	NR	720	192	NR	850	4	NR	980	0	NR
465	186	NR	595	870	NR	725	166	NR	855	3	NR	985	0	NR
470	168	NR	600	907	NR	730	144	NR	860	3	NR	990	1	NR
475	177	NR	605	940	NR	735	124	NR	865	2	NR	995	1	NR
480	198	NR	610	967	NR	740	106	NR	870	2	NR	1000	0	NR
485	223	NR	615	988	NR	745	91	NR	875	2	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.38

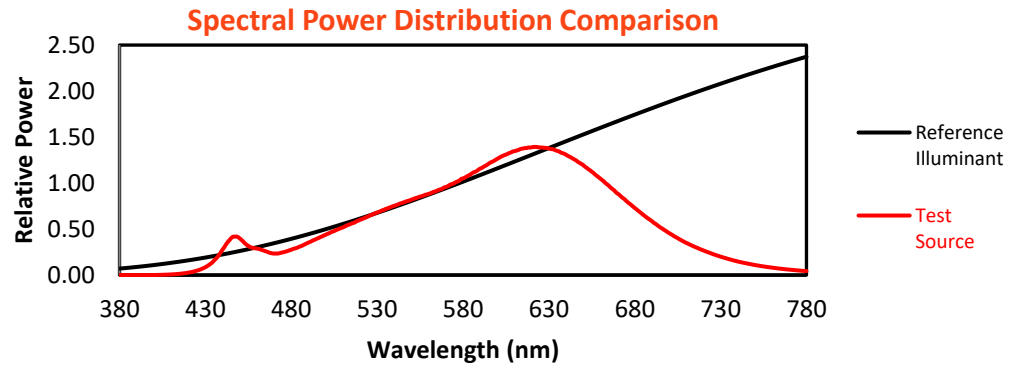
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	253	NR	620	997	NR	750	78	NR	880	2	NR
365	0	NR	495	285	NR	625	996	NR	755	67	NR	885	1	NR
370	0	NR	500	314	NR	630	989	NR	760	58	NR	890	1	NR
375	0	NR	505	343	NR	635	969	NR	765	50	NR	895	1	NR
380	0	NR	510	372	NR	640	939	NR	770	42	NR	900	1	NR
385	0	NR	515	401	NR	645	901	NR	775	36	NR	905	1	NR
390	0	NR	520	431	NR	650	858	NR	780	31	NR	910	1	NR
395	0	NR	525	459	NR	655	806	NR	785	26	NR	915	1	NR
400	0	NR	530	488	NR	660	752	NR	790	23	NR	920	1	NR
405	2	NR	535	516	NR	665	696	NR	795	19	NR	925	1	NR
410	5	NR	540	540	NR	670	636	NR	800	17	NR	930	0	NR
415	10	NR	545	566	NR	675	579	NR	805	14	NR	935	0	NR
420	19	NR	550	589	NR	680	524	NR	810	12	NR	940	0	NR
425	34	NR	555	612	NR	685	470	NR	815	11	NR	945	0	NR
430	61	NR	560	634	NR	690	421	NR	820	9	NR	950	0	NR
435	113	NR	565	660	NR	695	371	NR	825	8	NR	955	0	NR
440	198	NR	570	688	NR	700	327	NR	830	7	NR	960	0	NR
445	288	NR	575	719	NR	705	288	NR	835	6	NR	965	0	NR
450	286	NR	580	754	NR	710	251	NR	840	5	NR	970	0	NR
455	228	NR	585	791	NR	715	220	NR	845	4	NR	975	0	NR
460	207	NR	590	831	NR	720	192	NR	850	4	NR	980	0	NR
465	186	NR	595	870	NR	725	166	NR	855	3	NR	985	0	NR
470	168	NR	600	907	NR	730	144	NR	860	3	NR	990	1	NR
475	177	NR	605	940	NR	735	124	NR	865	2	NR	995	1	NR
480	198	NR	610	967	NR	740	106	NR	870	2	NR	1000	0	NR
485	223	NR	615	988	NR	745	91	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-13

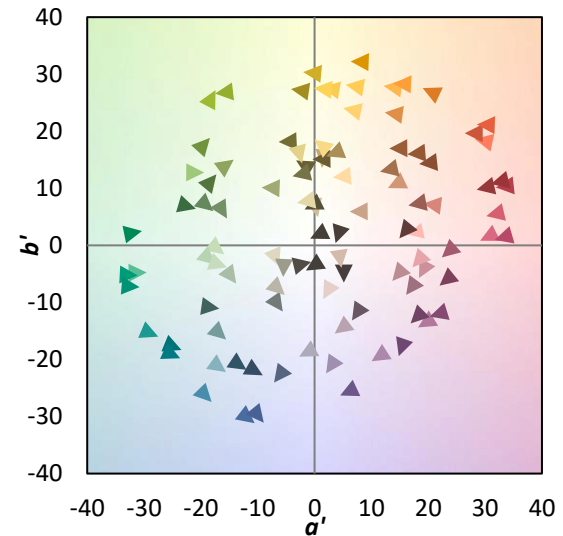
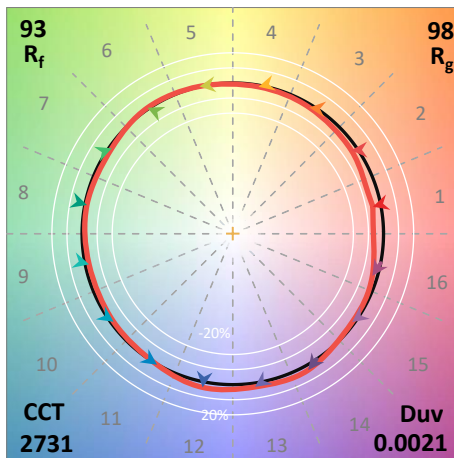
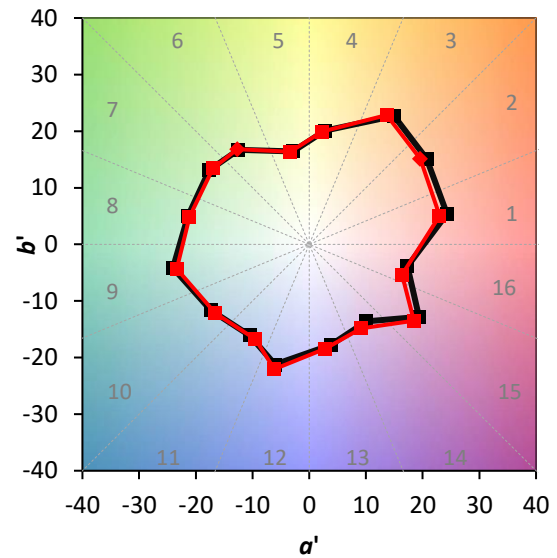
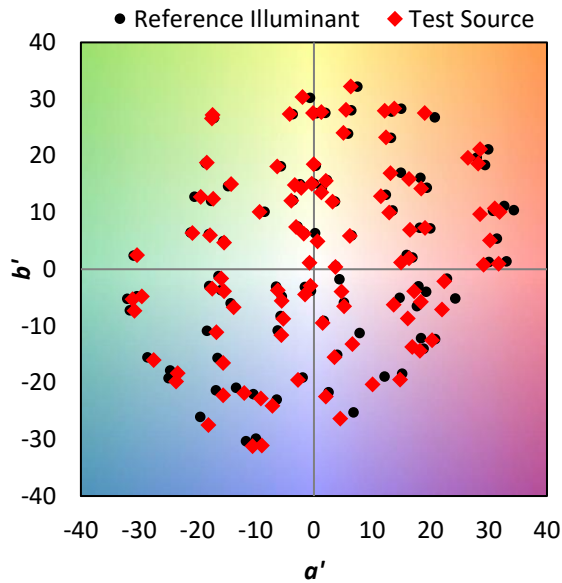
TM-30-18

Summary

$R_f = 92.6$
 $R_g = 98$
 $CIE R_a = 91.8$
 $R_9 = 54.7$

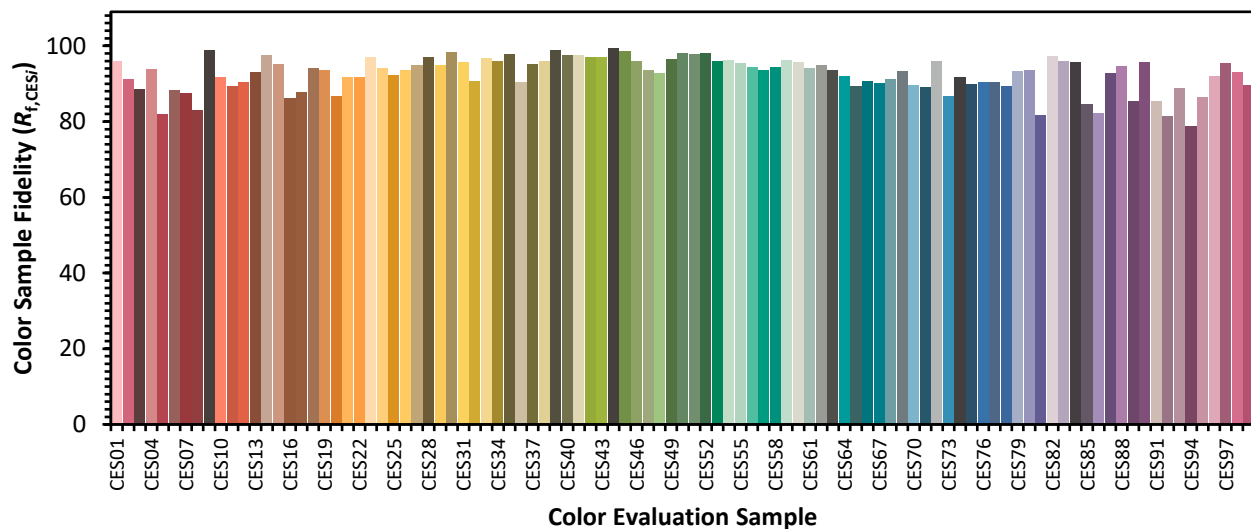


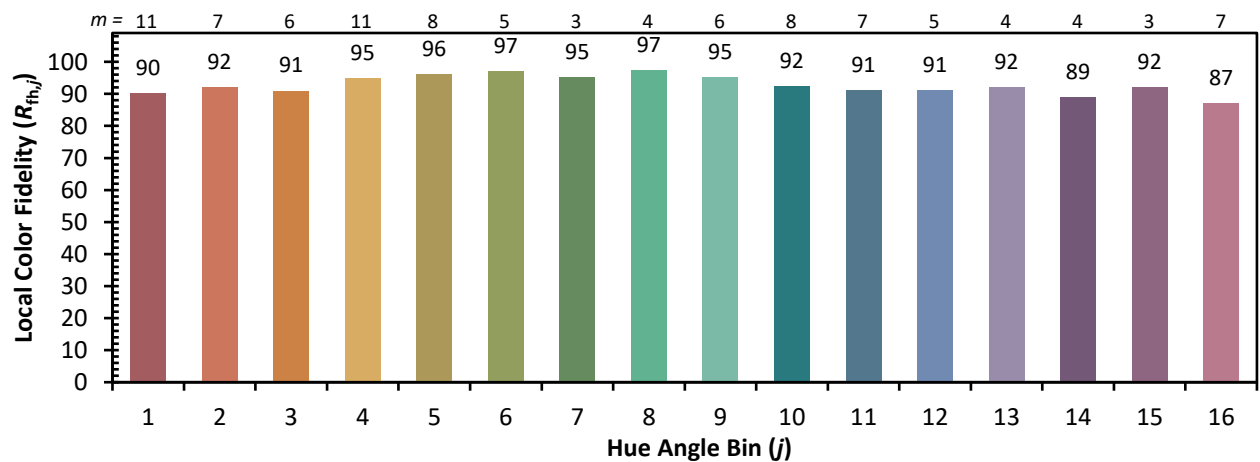
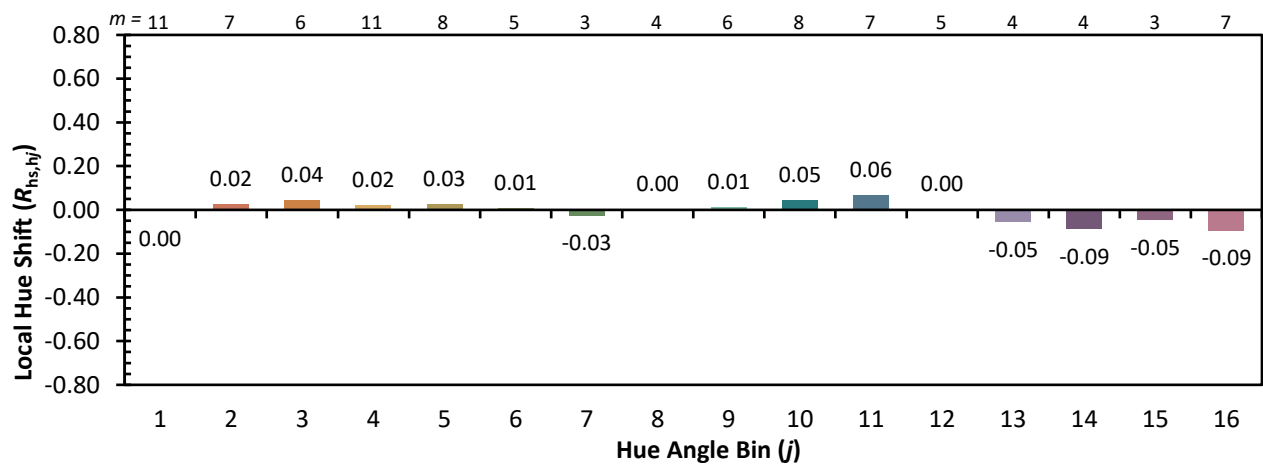
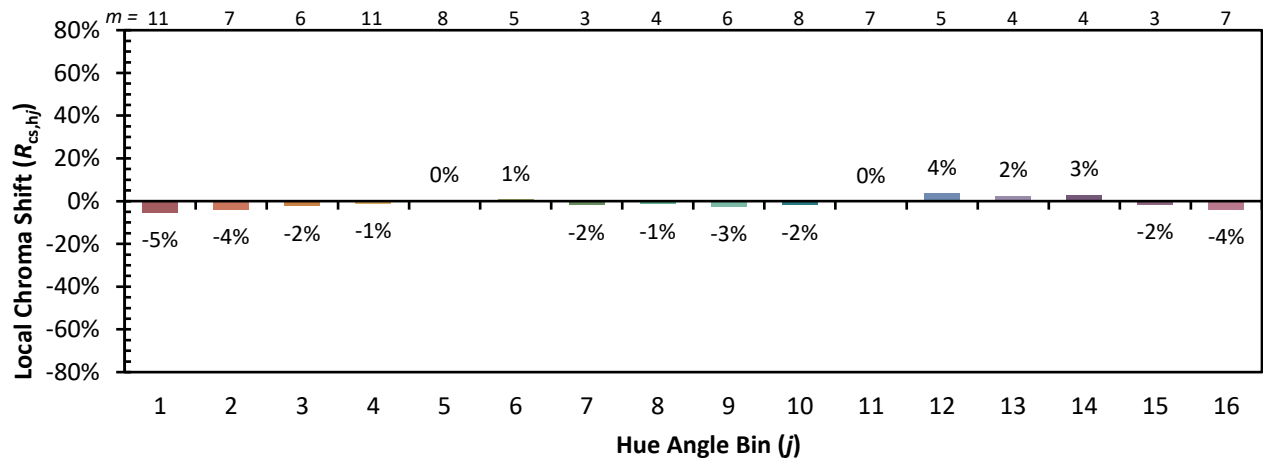
Color Vector Graphics



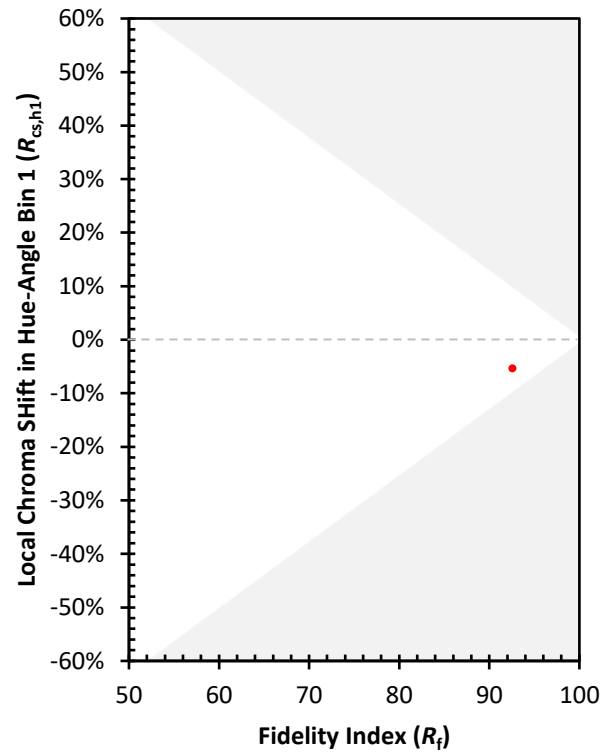
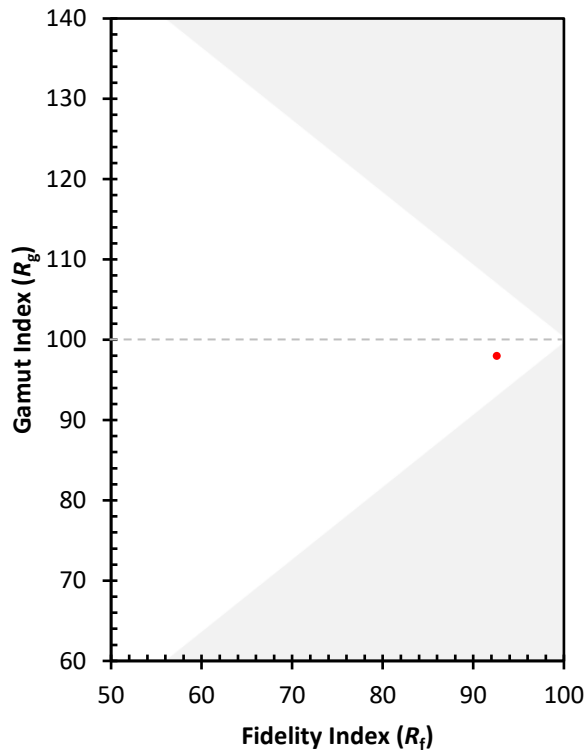
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 94	CES51 = 98	CES76 = 90
CES02 = 64	CES27 = 95	CES52 = 98	CES77 = 90
CES03 = 32	CES28 = 97	CES53 = 96	CES78 = 89
CES04 = 71	CES29 = 95	CES54 = 96	CES79 = 93
CES05 = 51	CES30 = 98	CES55 = 95	CES80 = 94
CES06 = 52	CES31 = 96	CES56 = 94	CES81 = 82
CES07 = 44	CES32 = 91	CES57 = 94	CES82 = 97
CES08 = 43	CES33 = 97	CES58 = 94	CES83 = 96
CES09 = 29	CES34 = 96	CES59 = 96	CES84 = 96
CES10 = 77	CES35 = 98	CES60 = 96	CES85 = 85
CES11 = 59	CES36 = 90	CES61 = 94	CES86 = 82
CES12 = 66	CES37 = 95	CES62 = 95	CES87 = 93
CES13 = 44	CES38 = 96	CES63 = 94	CES88 = 95
CES14 = 74	CES39 = 99	CES64 = 92	CES89 = 85
CES15 = 72	CES40 = 98	CES65 = 89	CES90 = 96
CES16 = 48	CES41 = 98	CES66 = 91	CES91 = 85
CES17 = 50	CES42 = 97	CES67 = 90	CES92 = 82
CES18 = 57	CES43 = 97	CES68 = 91	CES93 = 89
CES19 = 72	CES44 = 99	CES69 = 93	CES94 = 79
CES20 = 68	CES45 = 99	CES70 = 90	CES95 = 87
CES21 = 87	CES46 = 96	CES71 = 89	CES96 = 92
CES22 = 79	CES47 = 94	CES72 = 96	CES97 = 96
CES23 = 92	CES48 = 93	CES73 = 87	CES98 = 93
CES24 = 91	CES49 = 96	CES74 = 92	CES99 = 90
CES25 = 72	CES50 = 98	CES75 = 90	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)