

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

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P1050037

Luminaire Tested: **GALN-SA1A-950-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1050037
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-950-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 1xLight Square PACKAGE
90CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2631.2 lumens
Efficiency: N/A
Efficacy: 90.7 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

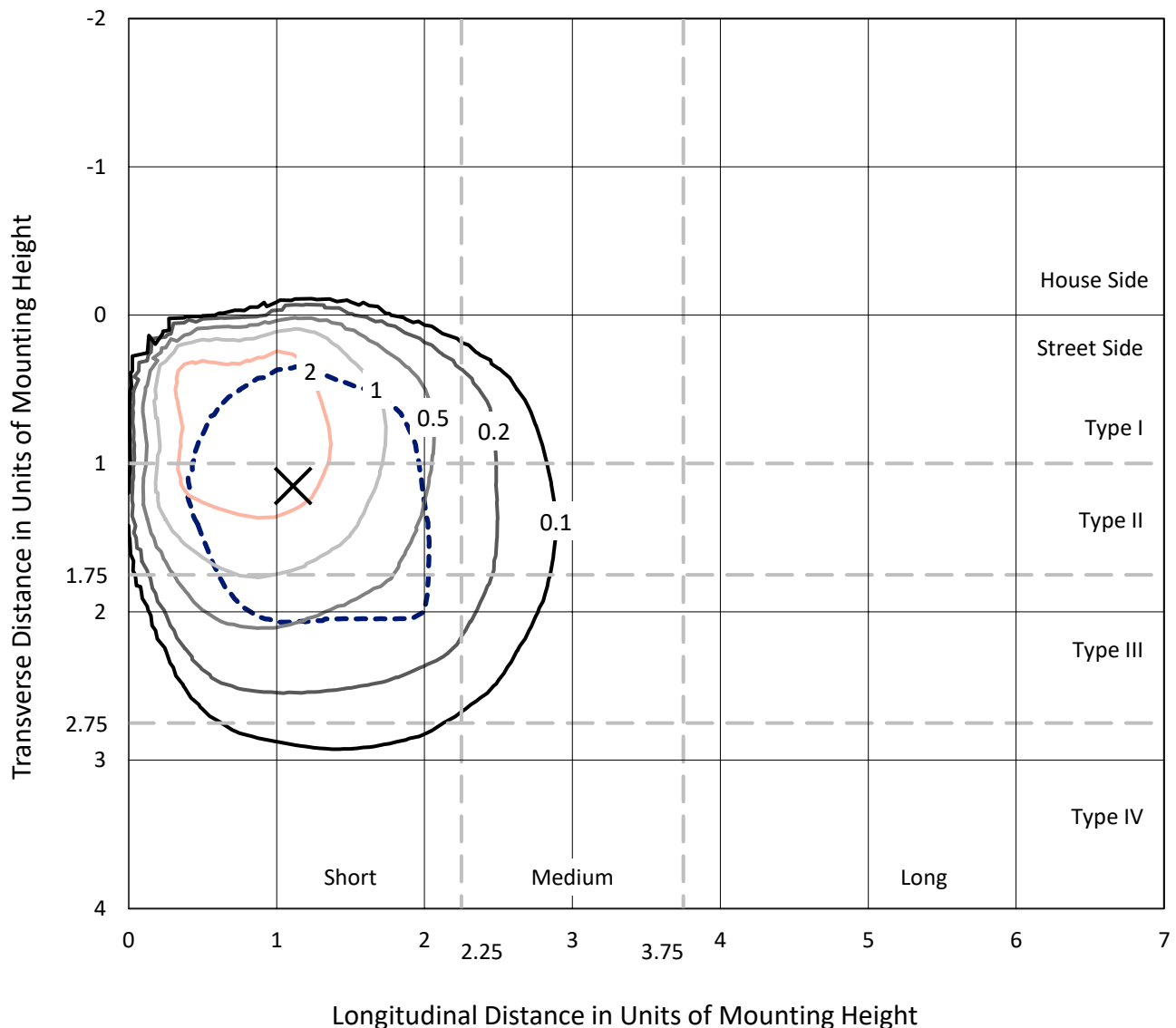
Input Watts (W): 29
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1050037

CATALOG NUMBER: GALN-SA1A-950-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

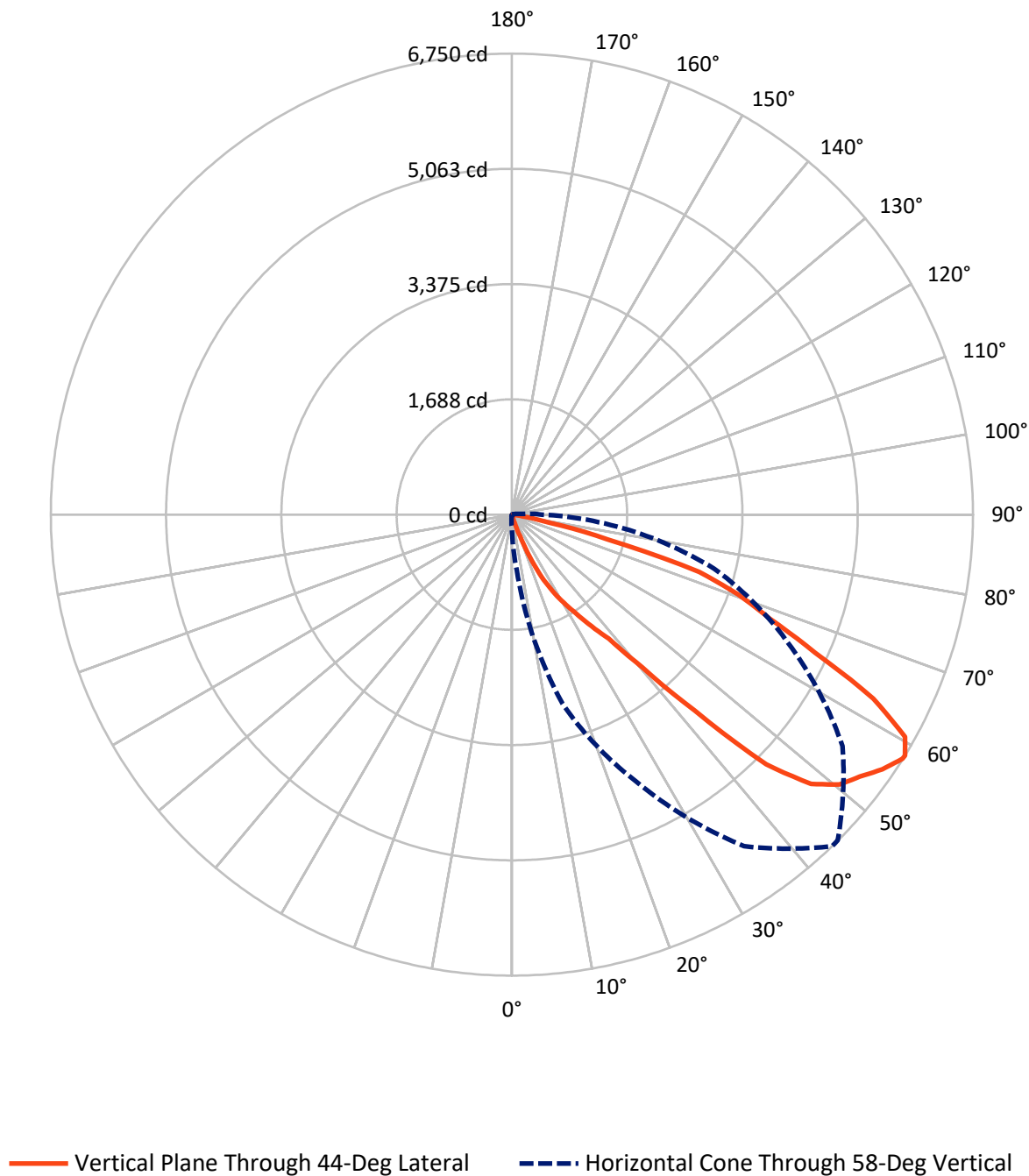
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - N/A

REPORT NUMBER: P1050037
CATALOG NUMBER: GALN-SA1A-950-U-LBC

Luminous Intensity Polar Plot



REPORT NUMBER: P1050037

CATALOG NUMBER: GALN-SA1A-950-U-LBC

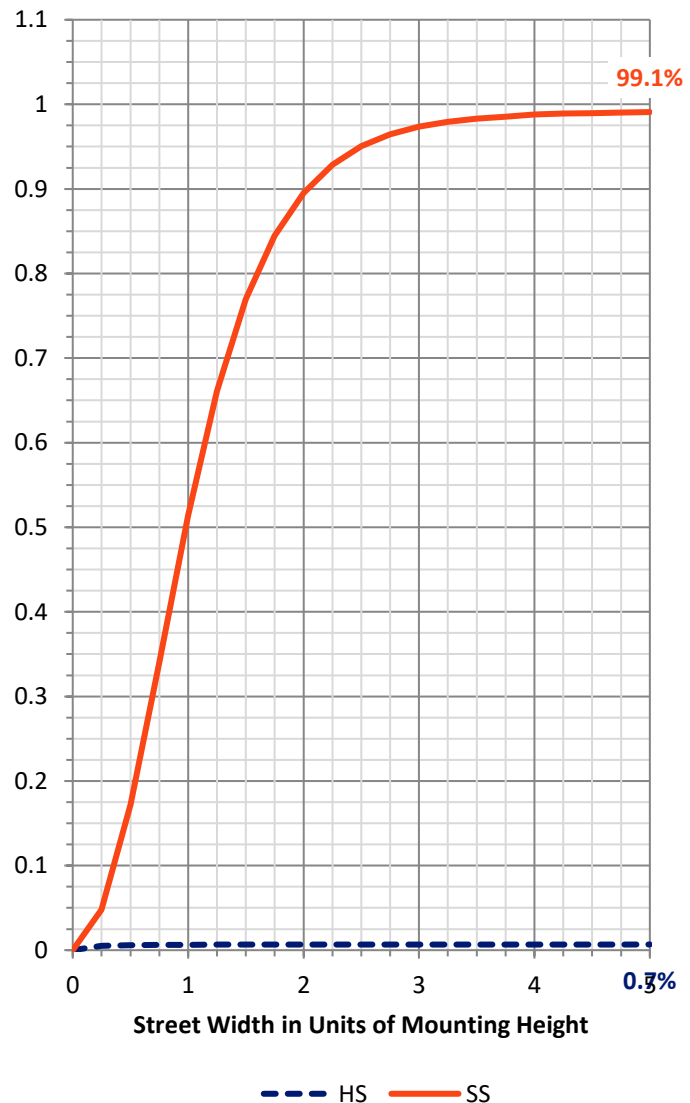
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18.0	0.0	18.0
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	2613.2	0.0	2613.2
	% Fixture	99.3	0.0	99.3
Total	Lumens	2631.2	0.0	2631.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.0
10°-20°	5.8	0.2
20°-30°	62.3	2.4
30°-40°	184.3	7.0
40°-50°	549.4	20.9
50°-60°	871.8	33.1
60°-70°	727.2	27.6
70°-80°	224.3	8.5
80°-90°	5.0	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°	2631.2	100.0
0°-180°	2631.2	100.0



REPORT NUMBER: P1050037

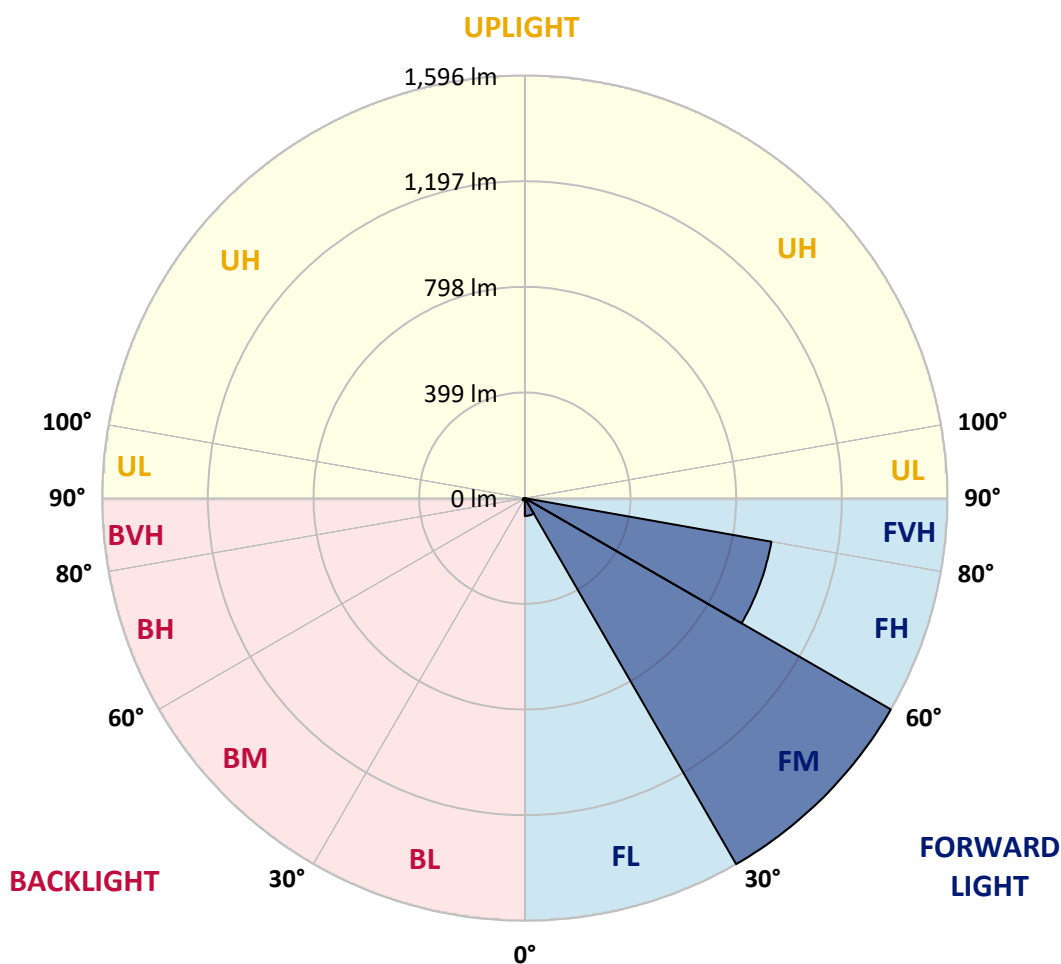
CATALOG NUMBER: GALN-SA1A-950-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	67.4	2.6			
FM	(30°-60°)	1595.8	60.6			
FH	(60°-80°)	945.3	35.9			G1/1800
FVH	(80°-90°)	4.7	0.2			G0/10
BL	(0°-30°)	1.8	0.1	B0/110		
BM	(30°-60°)	9.8	0.4	B0/220		
BH	(60°-80°)	6.1	0.2	B0/110		G0/110
BVH	(80°-90°)	0.2	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





REPORT NUMBER: P1050037

CATALOG NUMBER: GALN-SA1A-950-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
2.5°	14.9	14.9	14.3	13.5	12.7	11.9	11.7	11.3	11.1	10.9
5°	15.5	15.5	15.3	14.7	13.9	13.3	13.3	12.7	12.3	11.9
7.5°	15.9	16.1	16.5	16.3	15.9	15.3	15.3	14.9	14.3	13.3
10°	16.5	17.1	17.9	18.3	18.5	18.5	18.3	18.1	17.1	15.7
12.5°	17.1	18.3	20.3	22.3	23.5	25.0	24.8	24.4	21.9	18.9
15°	18.3	20.1	24.2	30.0	39.0	44.5	46.7	44.7	36.2	25.4
17.5°	19.7	22.7	35.2	62.8	103.0	122.0	133.6	124.2	82.3	48.3
20°	21.1	27.6	65.4	162.8	267.1	329.5	346.8	319.8	205.3	92.0
22.5°	23.5	38.8	132.6	336.5	575.6	669.2	686.9	600.5	387.8	181.7
25°	28.4	56.3	228.6	548.4	859.1	1017.1	1009.7	896.4	629.1	290.2
27.5°	35.6	81.9	345.6	779.2	1130.6	1269.9	1286.6	1146.5	838.6	426.7
30°	45.9	113.5	471.3	964.0	1348.2	1498.9	1501.7	1356.8	1026.0	546.6
32.5°	55.9	143.3	581.2	1142.7	1562.7	1727.8	1740.2	1561.9	1165.9	671.4
35°	63.4	162.8	692.5	1299.7	1778.9	2006.5	2005.7	1794.0	1331.7	782.9
37.5°	64.0	182.3	793.3	1460.3	2052.8	2307.6	2332.9	2099.5	1532.1	920.9
40°	62.6	204.1	920.9	1710.8	2546.4	2937.3	2959.6	2665.4	1934.0	1157.0
42.5°	64.2	242.1	1128.0	2173.3	3365.9	3927.4	3970.3	3661.0	2672.8	1638.8
45°	72.5	313.4	1561.9	2947.1	4534.0	5218.5	5204.2	4758.8	3532.4	2372.2
47.5°	100.2	488.2	2205.1	3700.2	5280.5	5890.2	5902.5	5358.1	4034.1	2936.1
50°	154.0	747.0	2745.5	4098.3	5601.5	6213.1	6201.6	5572.5	4224.7	3213.8
52.5°	200.4	934.2	3016.6	4238.0	5642.7	6372.8	6372.0	5629.0	4254.3	3237.7
55°	211.9	948.3	3018.8	4245.6	5734.9	6581.7	6607.9	5767.9	4292.7	3133.5
57.5°	207.3	839.6	2892.8	4289.3	5899.1	6743.2	6744.6	5902.5	4390.1	3069.7
58°	203.3	822.5	2867.4	4314.2	5927.3	6750.0	6746.6	5908.6	4469.4	3067.3
60°	181.1	714.2	2768.2	4377.6	5885.4	6611.3	6579.7	5774.1	4457.7	3042.9
62.5°	142.3	557.1	2670.6	4304.2	5435.8	5939.6	5952.8	5112.0	4063.7	2900.4
65°	113.3	415.2	2467.1	3775.5	4476.2	4877.7	4926.5	4156.9	3391.9	2455.9
67.5°	90.2	300.1	2069.5	3005.9	3542.0	4070.9	4106.5	3490.1	2627.9	1881.7
70°	73.3	202.9	1428.5	2198.3	2921.4	3516.1	3518.3	2899.4	1961.4	1232.9
72.5°	65.0	140.5	829.2	1603.2	2368.9	2865.2	2807.3	2352.8	1507.4	730.3
75°	56.3	93.2	406.7	980.1	1436.3	1446.0	1468.1	1091.4	753.5	347.2
77.5°	46.3	66.2	160.2	267.7	430.7	551.4	571.8	433.3	250.6	85.5
80°	31.8	31.4	43.1	82.1	123.2	154.4	144.1	111.5	65.6	32.8
82.5°	13.7	14.9	19.5	23.5	19.1	18.5	17.7	11.3	8.7	6.8
85°	4.4	4.0	4.2	4.2	3.4	2.6	2.6	1.2	0.0	0.0
87.5°	2.2	1.8	1.8	1.6	1.0	0.4	0.2	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

REPORT NUMBER: P1050037

CATALOG NUMBER: GALN-SA1A-950-U-LBC

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
11.5	0°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
10.7	2.5°	10.5	10.5	10.1	9.7	9.5	9.1	8.9	8.7	8.5	8.3
11.5	5°	11.1	10.9	10.3	9.7	9.1	8.5	8.1	7.8	7.4	7.2
12.7	7.5°	12.1	11.7	10.5	9.5	8.7	8.0	7.6	7.0	6.6	6.0
14.1	10°	13.3	12.5	10.9	9.7	8.5	7.6	7.0	6.4	5.8	5.0
16.1	12.5°	14.9	13.5	11.5	9.5	8.1	7.0	6.4	5.6	5.0	4.4
18.7	15°	16.3	14.5	11.7	9.5	7.8	6.4	5.6	4.8	4.2	3.4
23.5	17.5°	18.3	15.3	11.5	8.9	7.2	5.6	4.8	4.2	3.2	2.0
34.8	20°	21.7	15.9	11.1	8.3	6.2	4.6	3.6	2.8	1.4	0.4
52.3	22.5°	27.0	17.5	10.7	7.6	5.4	3.6	2.4	1.0	0.0	0.0
79.5	25°	37.4	20.3	10.7	7.2	4.8	2.6	0.8	0.0	0.0	0.0
112.9	27.5°	49.7	24.1	10.7	6.2	3.8	1.4	0.0	0.0	0.0	0.0
153.8	30°	62.2	28.2	10.7	5.4	3.0	0.2	0.0	0.0	0.0	0.0
189.4	32.5°	74.1	31.8	10.9	4.6	2.0	0.0	0.0	0.0	0.0	0.0
238.7	35°	86.3	32.4	10.7	4.0	1.2	0.0	0.0	0.0	0.0	0.0
299.1	37.5°	101.8	31.2	10.1	3.6	0.6	0.0	0.0	0.0	0.0	0.0
393.6	40°	125.2	31.8	9.5	3.4	0.2	0.0	0.0	0.0	0.0	0.0
561.9	42.5°	168.6	34.4	8.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0
895.0	45°	291.4	46.1	8.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0
1343.6	47.5°	482.0	82.9	7.8	3.6	0.0	0.0	0.0	0.0	0.0	0.0
1618.5	50°	615.2	104.4	8.1	3.8	0.0	0.0	0.0	0.0	0.0	0.0
1652.9	52.5°	614.2	116.3	8.5	4.0	0.8	0.0	0.0	0.0	0.0	0.0
1523.5	55°	546.0	118.5	9.1	4.4	2.6	0.0	0.0	0.0	0.0	0.0
1309.3	57.5°	456.4	108.1	10.5	5.4	4.8	0.0	0.0	0.0	0.0	0.0
1275.7	58°	440.5	103.4	10.9	5.6	5.2	0.0	0.0	0.0	0.0	0.0
1106.5	60°	361.0	84.3	13.9	7.0	7.0	0.0	0.0	0.0	0.0	0.0
907.2	62.5°	249.2	73.5	15.9	8.9	7.2	0.0	0.0	0.0	0.0	0.0
668.8	65°	176.3	66.4	17.3	9.5	5.8	0.0	0.0	0.0	0.0	0.0
475.2	67.5°	131.8	61.2	19.1	9.7	3.0	0.0	0.0	0.0	0.0	0.0
298.1	70°	101.0	57.4	23.5	10.3	0.8	0.0	0.0	0.0	0.0	0.0
177.7	72.5°	82.3	53.1	28.4	10.7	0.0	0.0	0.0	0.0	0.0	0.0
106.5	75°	68.2	47.9	27.4	11.7	0.0	0.0	0.0	0.0	0.0	0.0
56.8	77.5°	45.3	37.2	25.0	11.7	0.0	0.0	0.0	0.0	0.0	0.0
20.3	80°	15.9	14.7	19.5	10.3	0.0	0.0	0.0	0.0	0.0	0.0
4.2	82.5°	2.4	2.0	2.8	3.6	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

REPORT NUMBER: P1050037

CATALOG NUMBER: GALN-SA1A-950-U-LBC

CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
11.5	0°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
8.1	2.5°	8.1	8.1	8.0	8.1	8.1	8.5	9.5	10.9	12.5	13.1
7.0	5°	6.8	6.6	6.4	6.4	6.4	7.0	7.8	9.3	11.1	11.9
5.8	7.5°	5.6	5.4	5.2	5.0	5.0	5.4	6.4	8.1	9.9	10.7
4.8	10°	4.6	4.2	4.0	3.8	3.8	4.2	5.2	7.0	8.9	9.7
4.0	12.5°	3.8	3.2	2.8	2.6	2.4	3.0	4.0	5.6	7.8	8.7
3.0	15°	2.6	2.0	1.4	1.2	1.0	1.6	2.6	4.4	6.6	7.8
1.6	17.5°	1.4	0.6	0.2	0.0	0.0	0.4	1.2	3.2	5.4	6.4
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.0	5.0
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.4	3.4
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.8
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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	0.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1050037

CATALOG NUMBER: GALN-SA1A-950-U-LBC

CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
11.5	0°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
13.7	2.5°	14.1	13.9	13.5	13.1	13.1	13.1	13.7	14.3	14.9	14.9
12.3	5°	13.1	13.1	12.9	12.5	12.5	12.7	13.5	14.5	15.3	15.5
11.3	7.5°	12.1	12.5	12.1	11.9	12.1	12.3	13.1	14.3	15.5	15.9
10.5	10°	11.5	11.7	11.7	11.5	11.5	11.9	12.7	14.3	15.9	16.5
9.5	12.5°	10.7	11.1	10.9	10.9	10.9	11.3	12.3	14.1	16.3	17.1
8.5	15°	9.9	10.5	10.5	10.3	10.3	10.5	11.9	13.9	16.9	18.3
7.4	17.5°	9.1	9.7	9.9	9.5	9.5	9.9	11.3	13.9	17.3	19.7
6.0	20°	7.6	8.5	9.1	8.5	8.5	8.9	10.3	13.1	17.5	21.1
4.4	22.5°	6.0	7.0	7.8	7.6	7.6	7.8	9.5	12.5	17.7	23.5
2.6	25°	4.4	5.4	6.0	6.4	6.4	7.0	8.7	12.1	18.5	28.4
1.2	27.5°	2.6	3.8	4.6	5.0	5.2	6.0	8.1	11.7	19.9	35.6
0.0	30°	1.2	2.2	3.2	4.0	4.0	5.4	7.6	11.3	21.7	45.9
0.0	32.5°	0.0	1.0	1.6	2.8	3.0	4.4	7.0	10.9	24.2	55.9
0.0	35°	0.0	0.0	0.8	2.2	2.2	3.6	6.4	10.5	28.2	63.4
0.0	37.5°	0.0	0.0	0.0	1.6	1.8	3.2	6.2	10.3	29.0	64.0
0.0	40°	0.0	0.0	0.0	1.2	1.4	3.0	6.2	10.5	26.2	62.6
0.0	42.5°	0.0	0.0	0.0	0.8	1.0	3.0	6.2	10.9	23.7	64.2
0.0	45°	0.0	0.0	0.0	0.6	0.8	3.2	6.0	10.7	22.3	72.5
0.0	47.5°	0.0	0.0	0.0	0.8	1.2	3.2	5.8	10.5	22.5	100.2
0.0	50°	0.0	0.0	0.0	1.0	1.4	3.2	6.0	10.1	24.6	154.0
0.0	52.5°	0.0	0.0	0.0	0.8	1.2	3.6	6.6	9.9	26.8	200.4
0.0	55°	0.0	0.0	0.0	0.2	0.6	4.6	7.2	9.9	30.2	211.9
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	5.2	8.1	10.5	35.8	207.3
0.0	58°	0.0	0.0	0.0	0.0	0.0	5.2	8.3	10.5	36.2	203.3
0.0	60°	0.0	0.0	0.0	0.0	0.0	5.2	9.1	11.7	39.0	181.1
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	4.4	10.9	14.7	40.5	142.3
0.0	65°	0.0	0.0	0.0	0.0	0.0	3.6	12.9	16.1	41.7	113.3
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	3.4	13.3	16.3	42.3	90.2
0.0	70°	0.0	0.0	0.0	0.0	0.0	3.6	13.1	17.5	44.3	73.3
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	4.0	11.9	19.3	44.3	65.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	4.2	11.1	21.7	40.3	56.3
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	4.0	10.9	25.2	36.0	46.3
0.0	80°	0.4	0.6	0.6	0.4	0.4	3.4	10.7	25.6	30.6	31.8
0.2	82.5°	1.2	1.6	1.4	1.0	1.0	3.0	9.5	21.5	15.9	13.7
1.2	85°	2.2	2.6	2.6	2.2	2.2	2.8	6.0	7.8	5.4	4.4
2.2	87.5°	3.0	3.4	3.4	3.0	3.0	2.8	2.6	2.4	2.2	2.2
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: SP1-2407-184-17

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-950-U-5WQ

Data in this report applies to families of products including GSS-SB1A-950-U-5WQ

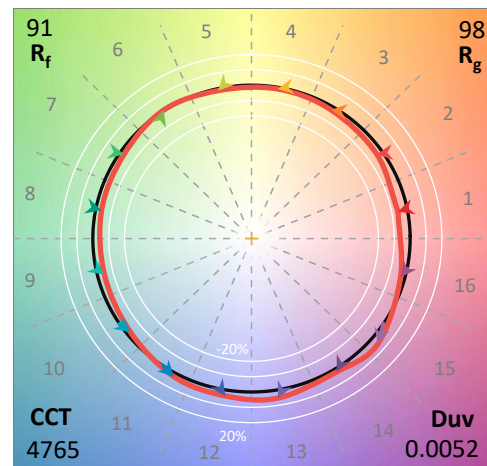
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-17
 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-950-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K): 4765
 CIE u' : 0.2105
 CIE v' : 0.4941
 Duv: 0.0052
 CIE x: 0.3536
 CIE y: 0.3689
 CIE z: 0.2775
 Peak Wavelength (nm): 449
 Dominant Wavelength (nm): 571
 Purity: 16.80041
 R_f: 90.7
 R_g: 98

CRI (Ra): 90.8
 R1: 89.8
 R2: 93.1
 R3: 95.3
 R4: 90.3
 R5: 89.0
 R6: 89.7
 R7: 94.9
 R8: 84.0
 R9: 54.9
 R10: 83.0
 R11: 89.6
 R12: 68.0
 R13: 90.6
 R14: 97.3
 R15: 86.2



Test Conditions

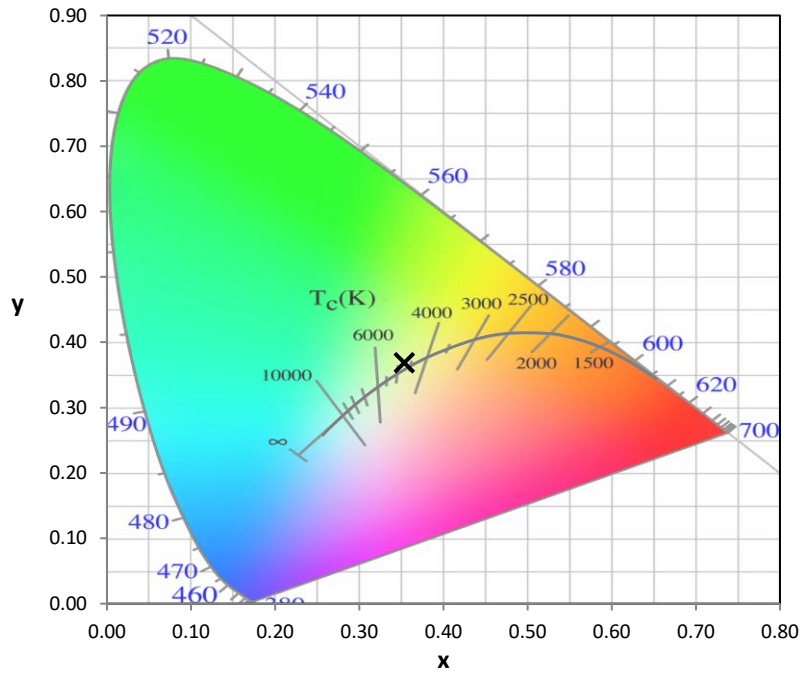
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-17

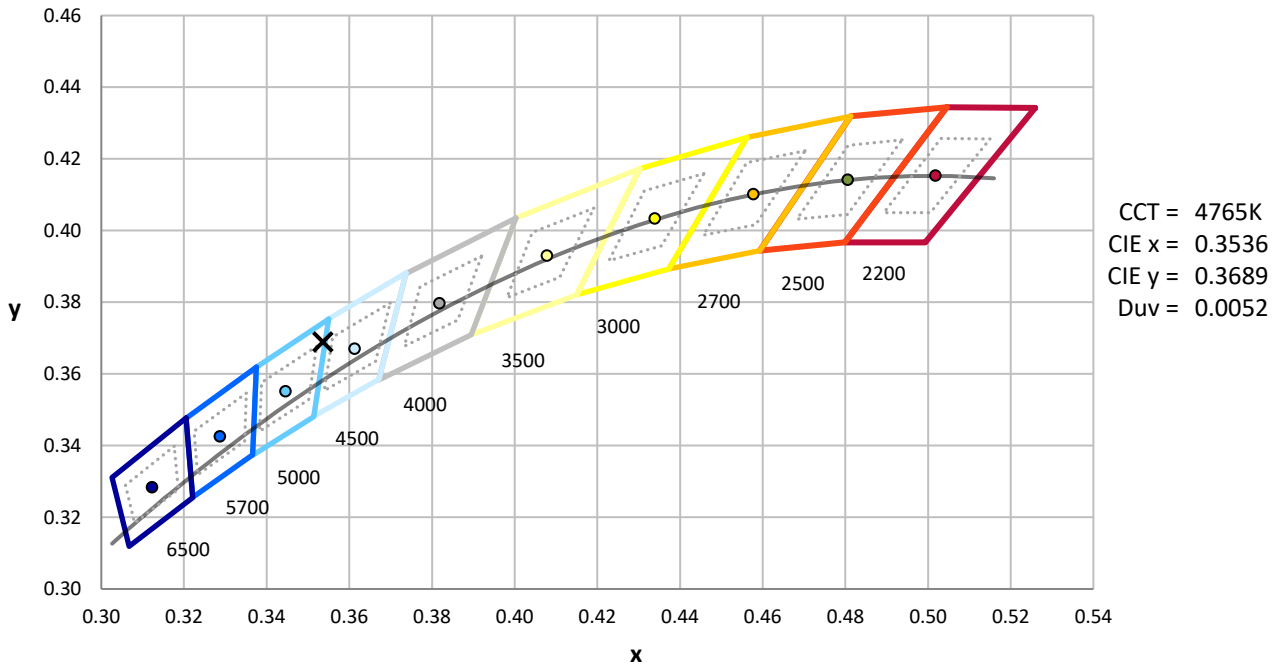
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-17

CIE 1931 Chromaticity Diagram



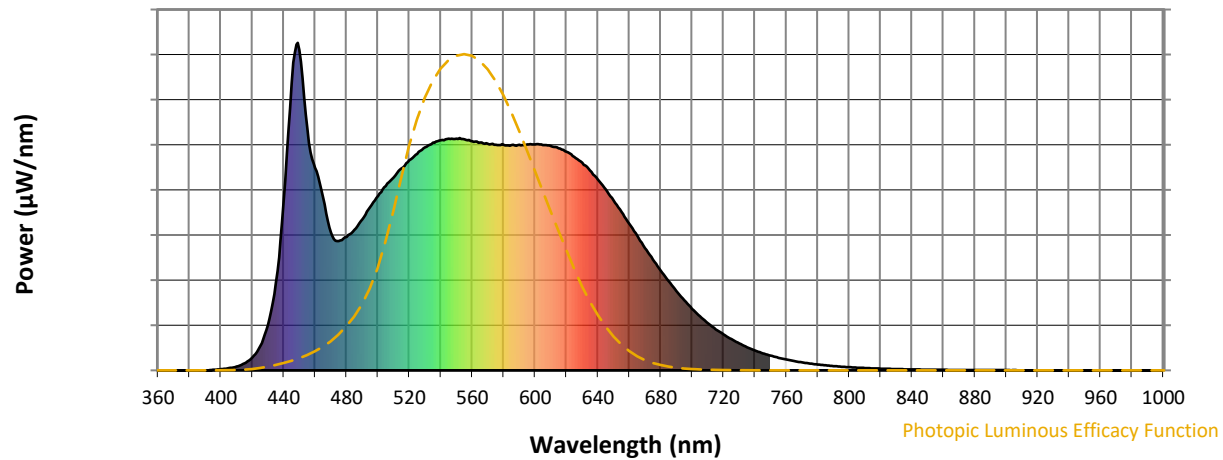
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-17

Photopic Flux vs. Wavelength

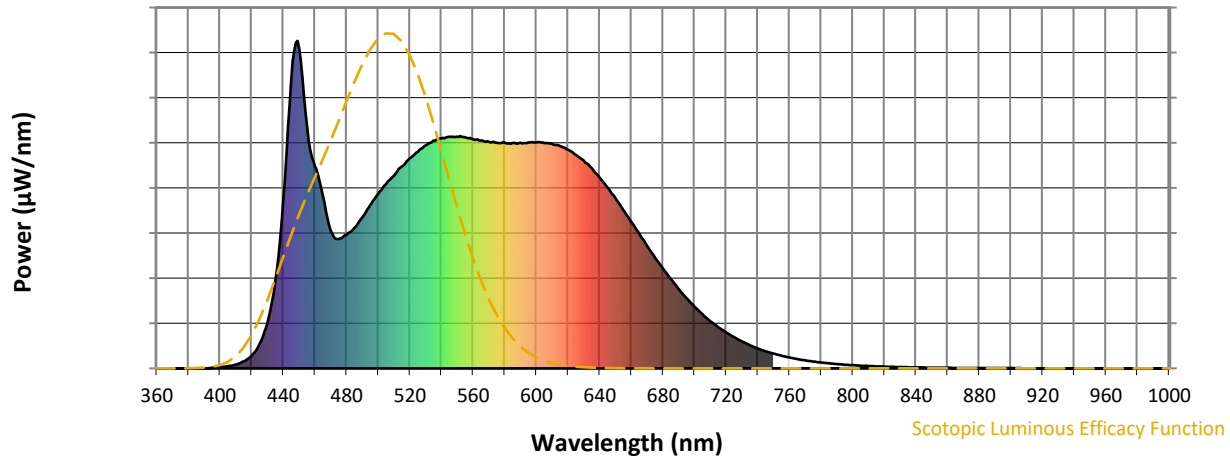


Photopic Lumens: NR

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	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-17

Scotopic Flux vs. Wavelength



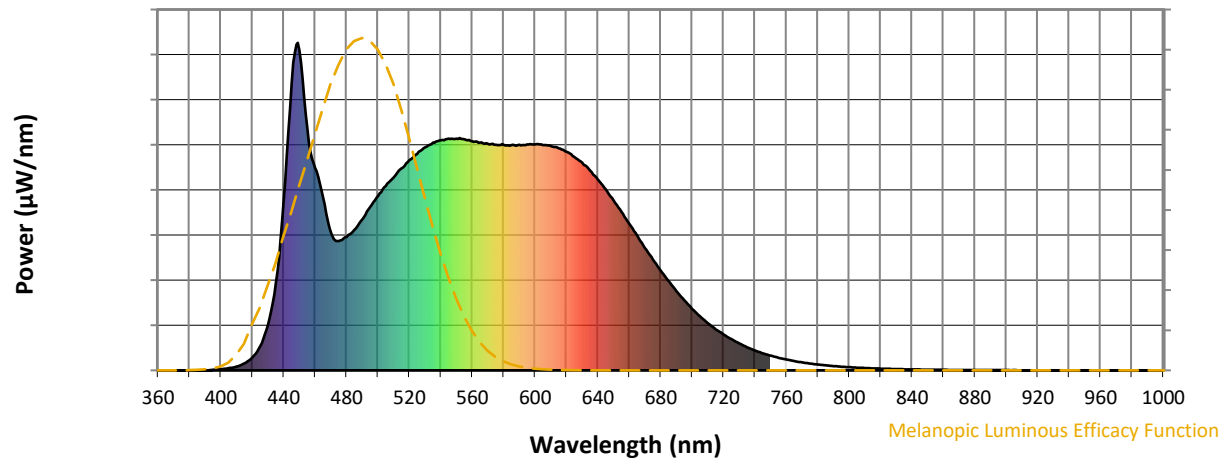
Scotopic Lumens: NR

S/P: 1.99

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	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-17

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 4.22

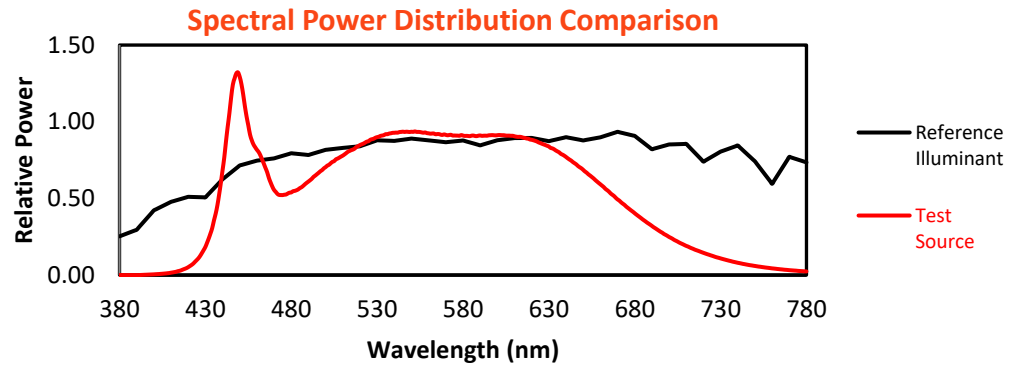
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-17

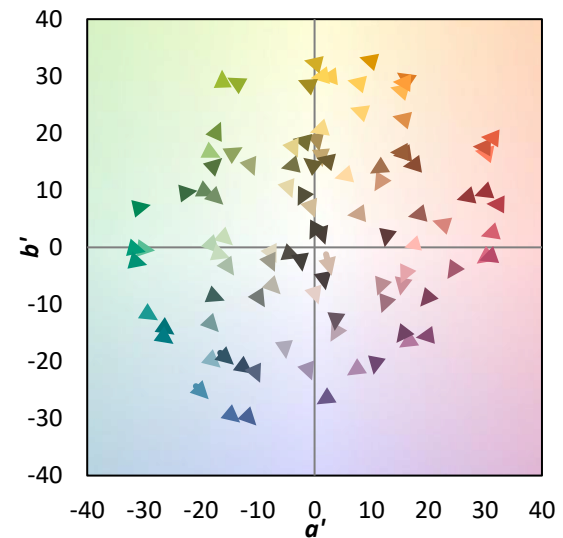
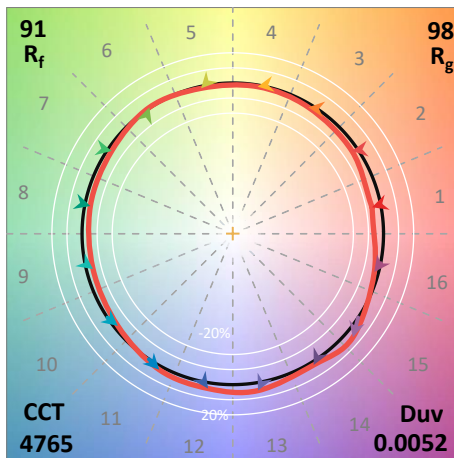
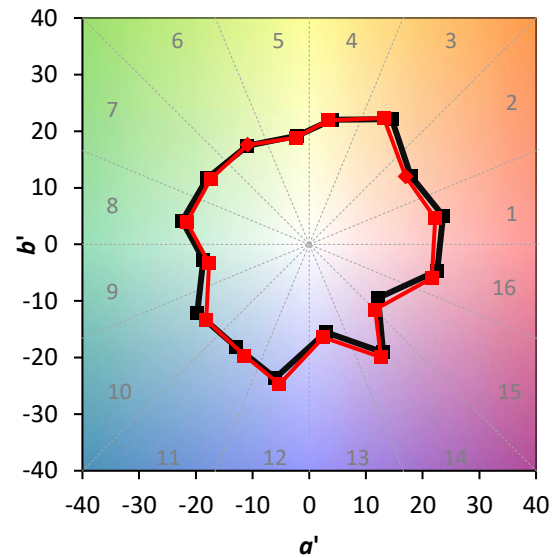
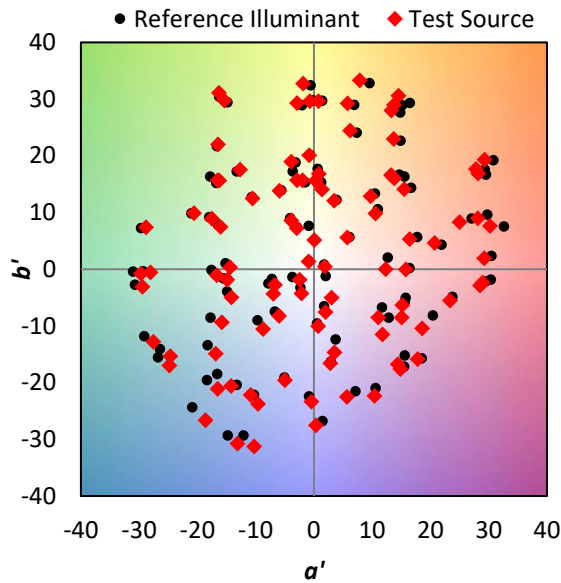
TM-30-18

Summary

$R_f = 90.7$
 $R_g = 98$
 CIE $R_a = 90.8$
 $R_9 = 54.9$

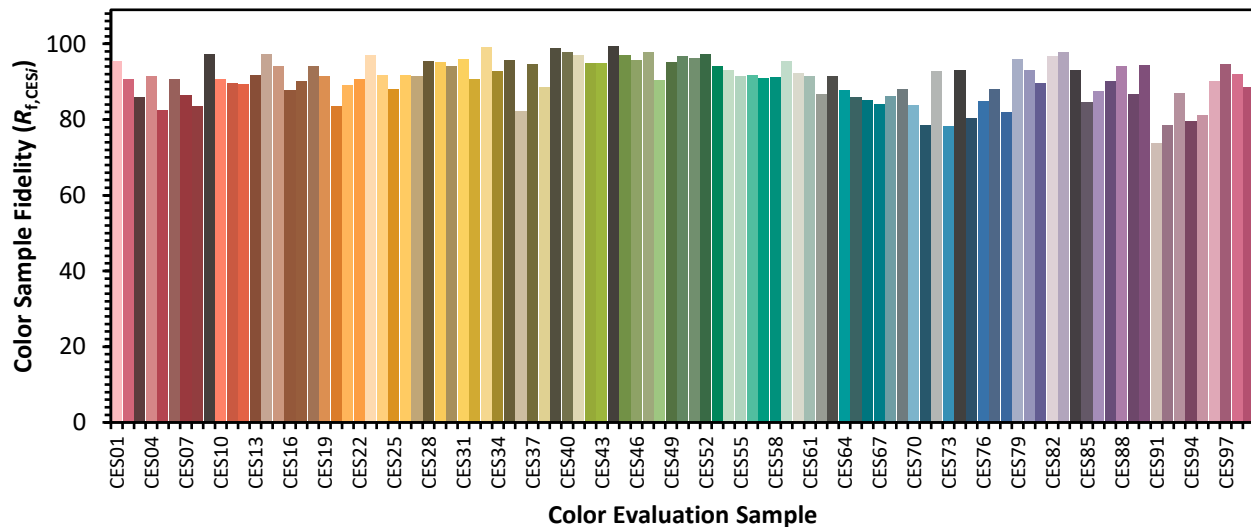


Color Vector Graphics

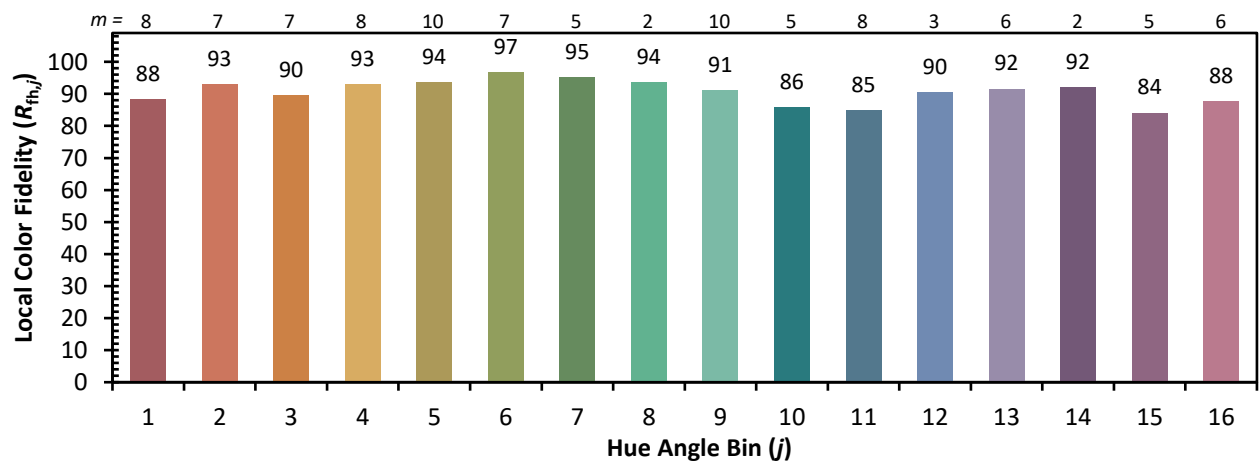
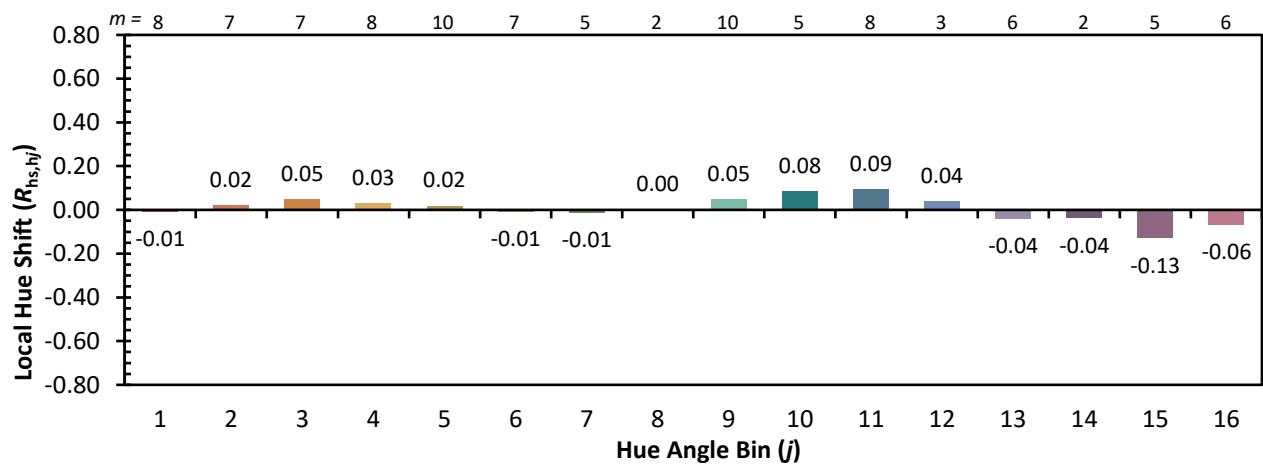
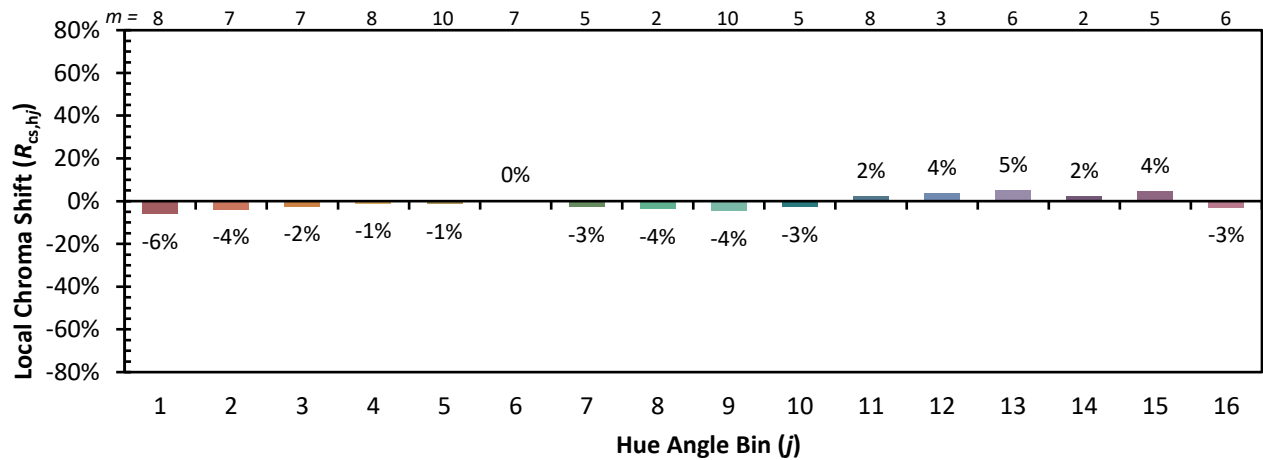


Individual Sample Fidelity Index ($R_{f,i}$)

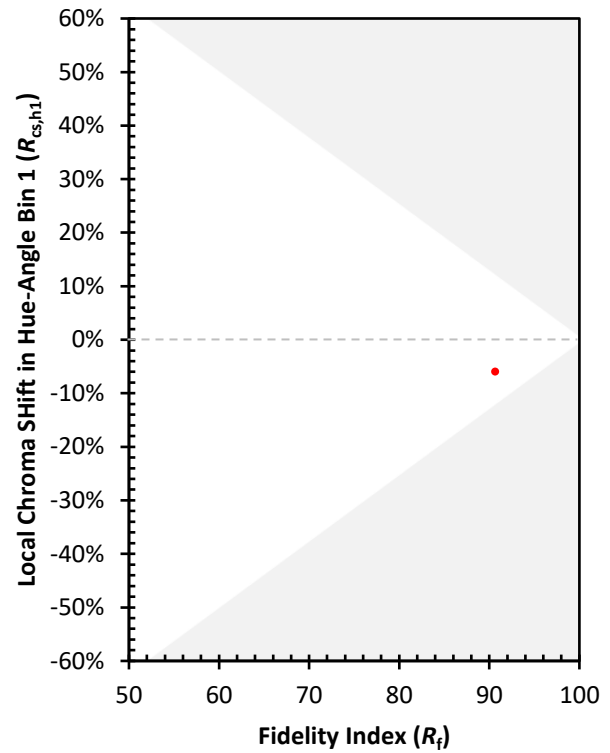
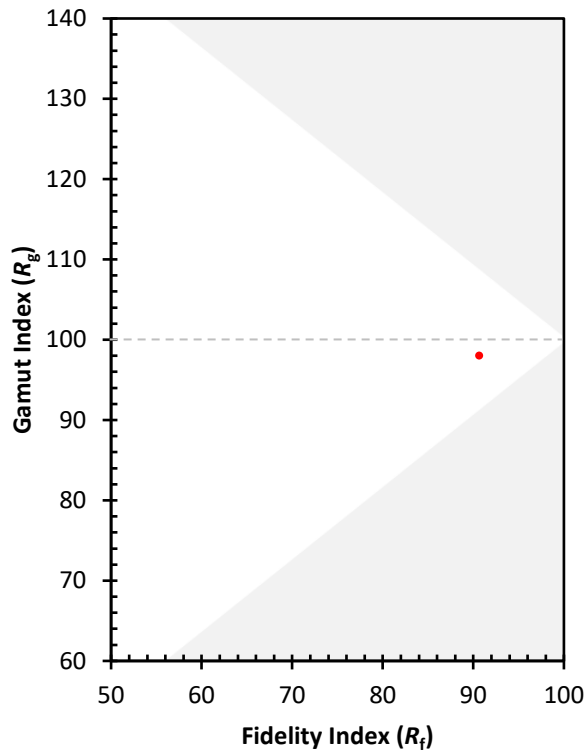
CES01 = 85	CES26 = 92	CES51 = 96	CES76 = 85
CES02 = 60	CES27 = 92	CES52 = 97	CES77 = 88
CES03 = 31	CES28 = 95	CES53 = 94	CES78 = 82
CES04 = 69	CES29 = 95	CES54 = 93	CES79 = 96
CES05 = 48	CES30 = 94	CES55 = 92	CES80 = 93
CES06 = 50	CES31 = 96	CES56 = 92	CES81 = 89
CES07 = 41	CES32 = 91	CES57 = 91	CES82 = 97
CES08 = 40	CES33 = 99	CES58 = 91	CES83 = 98
CES09 = 29	CES34 = 93	CES59 = 95	CES84 = 93
CES10 = 73	CES35 = 96	CES60 = 92	CES85 = 85
CES11 = 56	CES36 = 82	CES61 = 92	CES86 = 88
CES12 = 62	CES37 = 95	CES62 = 87	CES87 = 90
CES13 = 42	CES38 = 89	CES63 = 91	CES88 = 94
CES14 = 74	CES39 = 99	CES64 = 88	CES89 = 87
CES15 = 71	CES40 = 98	CES65 = 86	CES90 = 94
CES16 = 46	CES41 = 97	CES66 = 85	CES91 = 74
CES17 = 48	CES42 = 95	CES67 = 84	CES92 = 78
CES18 = 56	CES43 = 95	CES68 = 86	CES93 = 87
CES19 = 70	CES44 = 100	CES69 = 88	CES94 = 80
CES20 = 65	CES45 = 97	CES70 = 84	CES95 = 81
CES21 = 85	CES46 = 96	CES71 = 79	CES96 = 90
CES22 = 77	CES47 = 98	CES72 = 93	CES97 = 95
CES23 = 91	CES48 = 90	CES73 = 78	CES98 = 92
CES24 = 90	CES49 = 95	CES74 = 93	CES99 = 88
CES25 = 70	CES50 = 97	CES75 = 80	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)