

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: McGRAW-EDISON

Report Number: P1050017

Luminaire Tested: **GALN-SA5A-940-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1050017
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-940-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 5xLight Square PACKAGE
90CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11865.6 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

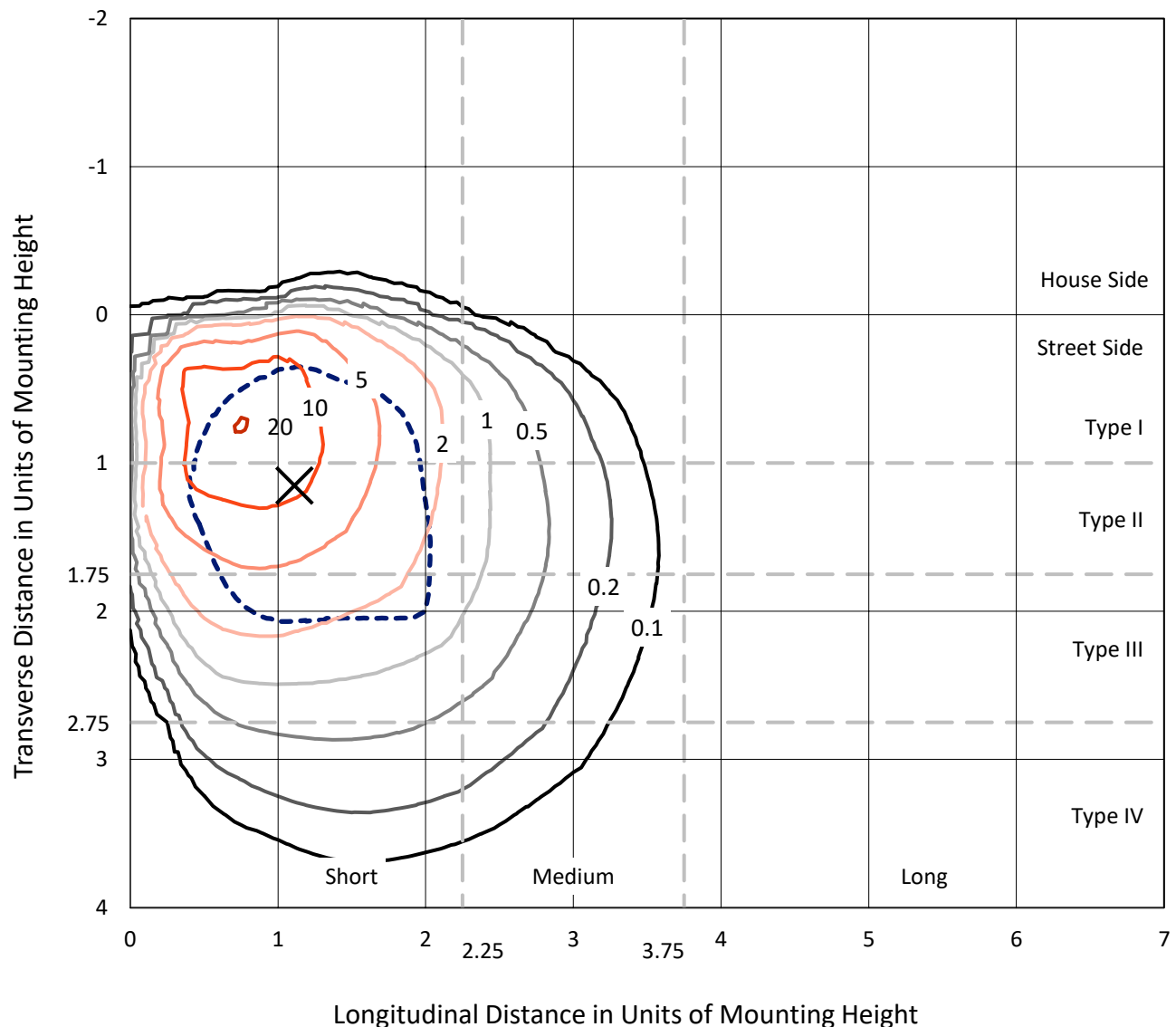
Input Watts (W): 136.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

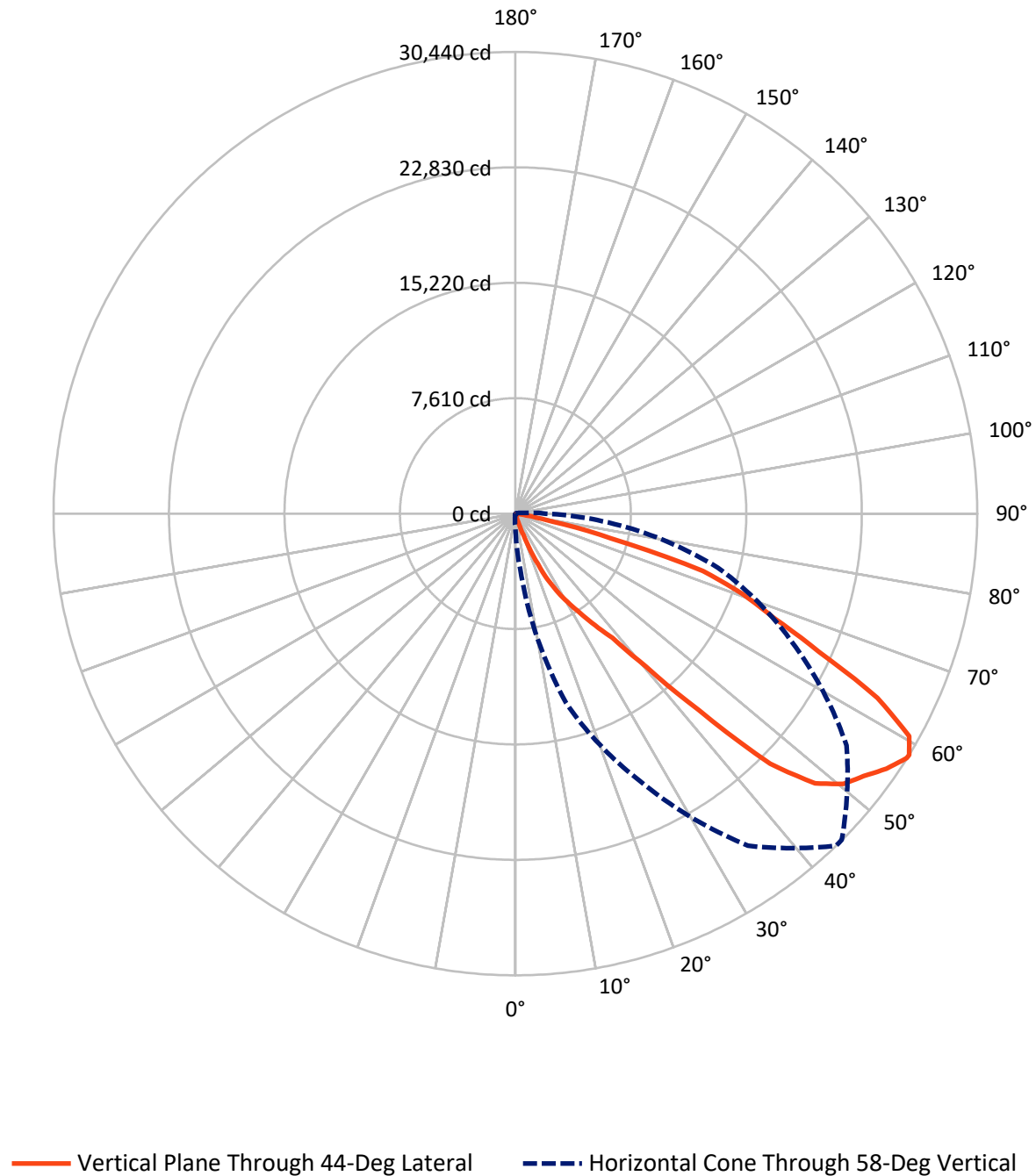
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 20.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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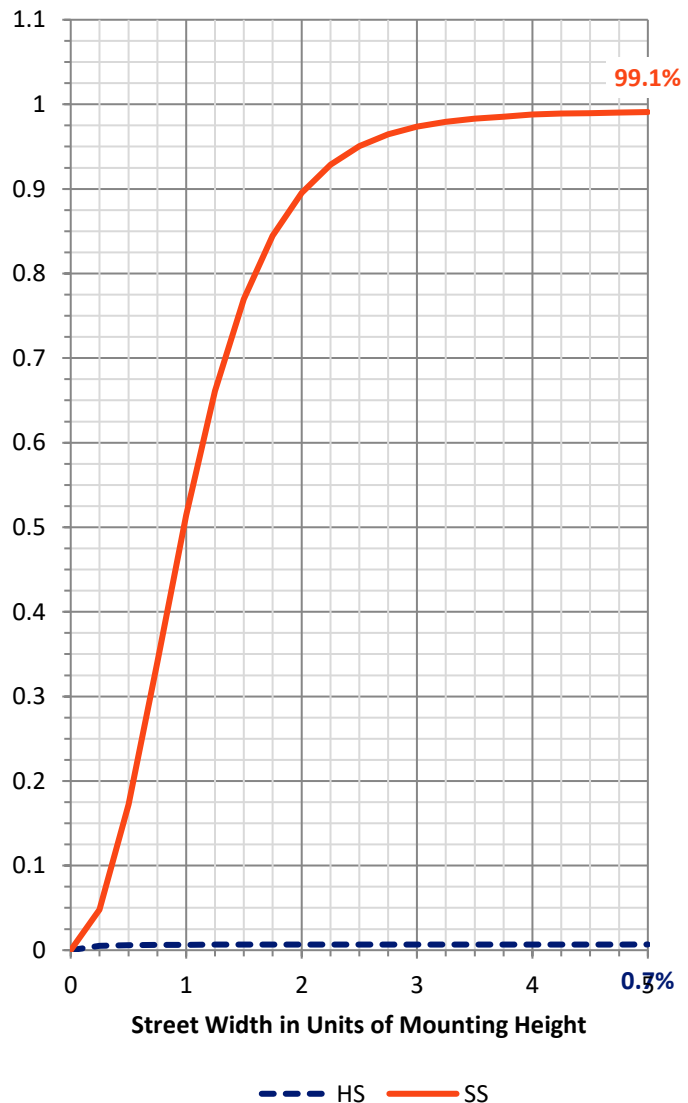
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	81.0	0.0	81.0
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	11784.5	0.0	11784.5
	% Fixture	99.3	0.0	99.3
Total	Lumens	11865.6	0.0	11865.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.6	0.0
10°-20°	26.0	0.2
20°-30°	281.1	2.4
30°-40°	831.3	7.0
40°-50°	2477.7	20.9
50°-60°	3931.5	33.1
60°-70°	3279.4	27.6
70°-80°	1011.4	8.5
80°-90°	22.5	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°	11865.6	100.0
0°-180°	11865.6	100.0



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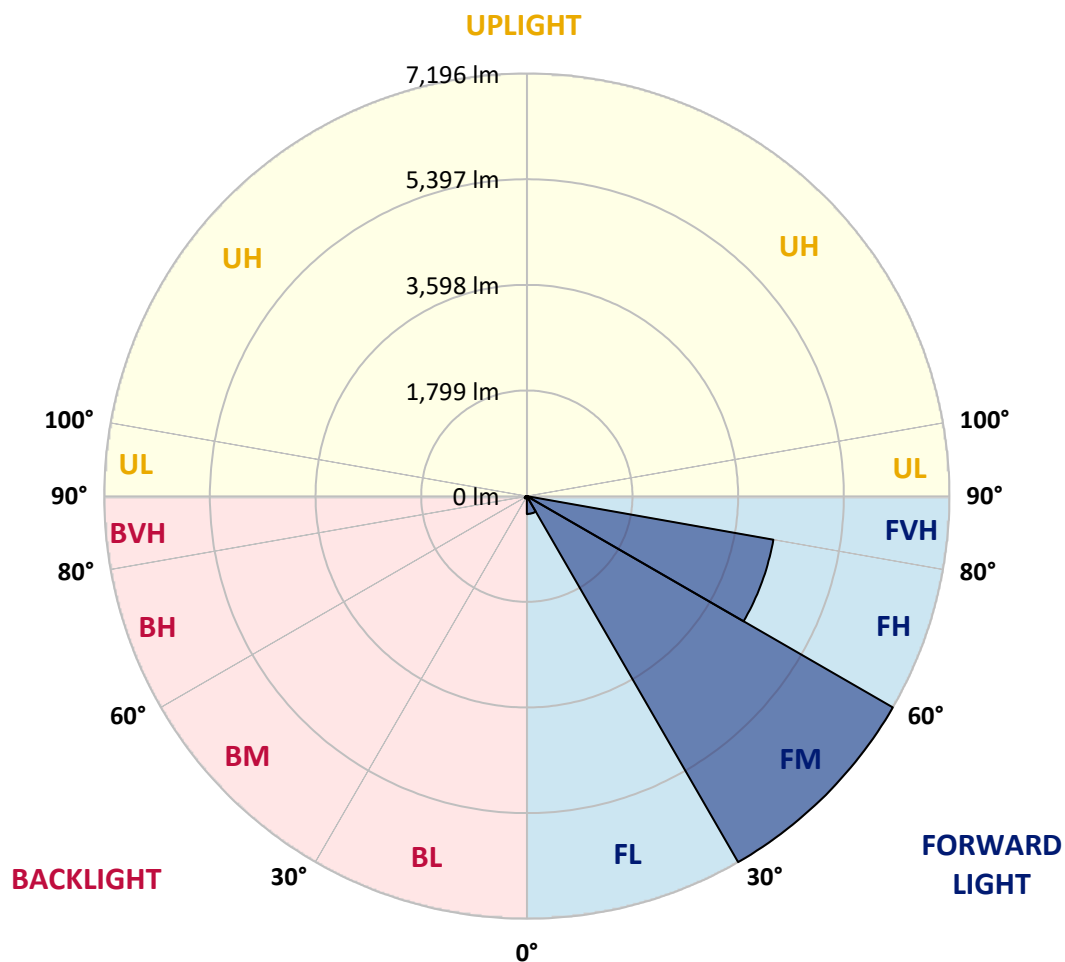
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	303.8	2.6			
FM	(30°-60°)	7196.2	60.6			
FH	(60°-80°)	4263.1	35.9			G2/5000
FVH	(80°-90°)	21.4	0.2			G1/100
BL	(0°-30°)	7.9	0.1	B0/110		
BM	(30°-60°)	44.3	0.4	B0/220		
BH	(60°-80°)	27.7	0.2	B0/110		G0/110
BVH	(80°-90°)	1.1	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°	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
2.5°	67.2	67.2	64.5	61.0	57.4	53.8	52.9	51.1	50.2	49.3
5°	69.9	69.9	69.0	66.3	62.7	60.1	60.1	57.4	55.6	53.8
7.5°	71.7	72.6	74.4	73.5	71.7	69.0	69.0	67.2	64.5	60.1
10°	74.4	77.1	80.7	82.5	83.4	83.4	82.5	81.6	77.1	70.8
12.5°	77.1	82.5	91.4	100.4	105.8	112.9	112.0	110.3	98.6	85.2
15°	82.5	90.5	109.4	135.3	175.7	200.8	210.6	201.7	163.1	114.7
17.5°	88.7	102.2	158.7	283.2	464.3	550.4	602.3	560.2	371.1	217.8
20°	95.0	124.6	294.9	734.1	1204.7	1486.1	1564.1	1442.2	925.9	415.0
22.5°	105.8	174.8	597.9	1517.5	2595.8	3018.0	3097.8	2707.8	1748.8	819.3
25°	128.2	253.7	1030.8	2473.0	3874.0	4586.6	4553.4	4042.5	2836.9	1308.7
27.5°	160.4	369.3	1558.7	3513.7	5098.4	5726.7	5802.0	5170.1	3781.7	1924.4
30°	207.1	511.8	2125.2	4347.3	6079.9	6759.3	6771.9	6118.4	4626.9	2464.9
32.5°	251.9	646.3	2620.9	5153.1	7047.0	7791.9	7847.5	7043.5	5257.9	3027.8
35°	285.9	734.1	3122.9	5861.2	8022.3	9048.6	9045.0	8090.4	6005.5	3530.7
37.5°	288.6	821.9	3577.3	6585.4	9257.4	10406.5	10520.4	9468.1	6909.0	4152.8
40°	282.3	920.5	4152.8	7714.8	11483.0	13246.1	13346.5	12019.9	8721.4	5217.6
42.5°	289.5	1091.7	5086.7	9800.6	15178.7	17710.8	17904.4	16509.7	12053.1	7390.3
45°	327.2	1413.5	7043.5	13290.1	20446.5	23533.5	23468.9	21460.2	15929.8	10697.8
47.5°	451.8	2201.4	9944.0	16686.3	23813.1	26562.2	26617.8	24162.7	18192.2	13240.8
50°	694.7	3368.5	12381.2	18481.7	25260.7	28018.7	27966.8	25129.8	19051.7	14492.9
52.5°	903.5	4212.8	13603.8	19111.8	25446.2	28738.5	28734.9	25384.4	19185.3	14600.5
55°	955.5	4276.4	13613.6	19145.9	25862.1	29680.6	29798.9	26010.9	19358.3	14130.8
57.5°	934.9	3786.1	13045.4	19343.1	26602.5	30409.3	30415.6	26617.8	19797.5	13843.1
58°	917.0	3709.1	12930.6	19455.1	26729.8	30439.8	30424.5	26645.5	20155.1	13832.3
60°	816.6	3220.6	12483.4	19741.0	26540.7	29814.1	29671.6	26038.7	20102.3	13722.1
62.5°	641.8	2512.4	12043.2	19410.3	24513.2	26785.4	26844.5	23053.0	18325.7	13079.4
65°	510.9	1872.5	11125.4	17026.0	20185.6	21996.2	22216.7	18746.1	15296.1	11075.2
67.5°	406.9	1353.5	9332.7	13555.4	15972.8	18358.0	18518.4	15738.9	11850.5	8485.7
70°	330.8	915.2	6442.0	9913.5	13174.4	15856.3	15866.1	13074.9	8845.1	5560.0
72.5°	293.1	633.7	3739.5	7229.9	10682.6	12920.8	12659.9	10610.0	6797.9	3293.2
75°	253.7	420.4	1833.9	4419.9	6477.0	6520.9	6620.4	4921.8	3398.0	1565.9
77.5°	208.8	298.5	722.5	1207.4	1942.4	2486.5	2578.8	1954.0	1130.3	385.4
80°	143.4	141.6	194.5	370.2	555.7	696.5	649.8	502.8	295.8	147.9
82.5°	61.8	67.2	87.8	105.8	86.0	83.4	79.8	51.1	39.4	30.5
85°	19.7	17.9	18.8	18.8	15.2	11.7	11.7	5.4	0.0	0.0
87.5°	9.9	8.1	8.1	7.2	4.5	1.8	0.9	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°
52.0	0°	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
48.4	2.5°	47.5	47.5	45.7	43.9	43.0	41.2	40.3	39.4	38.5	37.6
52.0	5°	50.2	49.3	46.6	43.9	41.2	38.5	36.8	35.0	33.2	32.3
57.4	7.5°	54.7	52.9	47.5	43.0	39.4	35.9	34.1	31.4	29.6	26.9
63.6	10°	60.1	56.5	49.3	43.9	38.5	34.1	31.4	28.7	26.0	22.4
72.6	12.5°	67.2	61.0	52.0	43.0	36.8	31.4	28.7	25.1	22.4	19.7
84.3	15°	73.5	65.4	52.9	43.0	35.0	28.7	25.1	21.5	18.8	15.2
105.8	17.5°	82.5	69.0	52.0	40.3	32.3	25.1	21.5	18.8	14.3	9.0
156.9	20°	97.7	71.7	50.2	37.6	27.8	20.6	16.1	12.5	6.3	1.8
235.7	22.5°	121.9	78.9	48.4	34.1	24.2	16.1	10.8	4.5	0.0	0.0
358.5	25°	168.5	91.4	48.4	32.3	21.5	11.7	3.6	0.0	0.0	0.0
509.1	27.5°	224.1	108.5	48.4	27.8	17.0	6.3	0.0	0.0	0.0	0.0
693.8	30°	280.6	127.3	48.4	24.2	13.4	0.9	0.0	0.0	0.0	0.0
854.2	32.5°	334.3	143.4	49.3	20.6	9.0	0.0	0.0	0.0	0.0	0.0
1076.5	35°	389.0	146.1	48.4	17.9	5.4	0.0	0.0	0.0	0.0	0.0
1349.0	37.5°	458.9	140.7	45.7	16.1	2.7	0.0	0.0	0.0	0.0	0.0
1774.8	40°	564.7	143.4	43.0	15.2	0.9	0.0	0.0	0.0	0.0	0.0
2534.0	42.5°	760.1	155.1	39.4	15.2	0.0	0.0	0.0	0.0	0.0	0.0
4036.2	45°	1314.0	208.0	35.9	16.1	0.0	0.0	0.0	0.0	0.0	0.0
6059.3	47.5°	2173.6	373.8	35.0	16.1	0.0	0.0	0.0	0.0	0.0	0.0
7298.9	50°	2774.2	470.6	36.8	17.0	0.0	0.0	0.0	0.0	0.0	0.0
7454.0	52.5°	2769.7	524.4	38.5	17.9	3.6	0.0	0.0	0.0	0.0	0.0
6870.5	55°	2462.3	534.2	41.2	19.7	11.7	0.0	0.0	0.0	0.0	0.0
5904.2	57.5°	2058.0	487.6	47.5	24.2	21.5	0.0	0.0	0.0	0.0	0.0
5752.7	58°	1986.3	466.1	49.3	25.1	23.3	0.0	0.0	0.0	0.0	0.0
4989.9	60°	1627.8	380.0	62.7	31.4	31.4	0.0	0.0	0.0	0.0	0.0
4090.9	62.5°	1124.0	331.6	71.7	40.3	32.3	0.0	0.0	0.0	0.0	0.0
3016.2	65°	795.1	299.4	78.0	43.0	26.0	0.0	0.0	0.0	0.0	0.0
2143.2	67.5°	594.3	276.1	86.0	43.9	13.4	0.0	0.0	0.0	0.0	0.0
1344.5	70°	455.3	259.0	105.8	46.6	3.6	0.0	0.0	0.0	0.0	0.0
801.3	72.5°	371.1	239.3	128.2	48.4	0.0	0.0	0.0	0.0	0.0	0.0
480.4	75°	307.4	216.0	123.7	52.9	0.0	0.0	0.0	0.0	0.0	0.0
256.4	77.5°	204.4	167.6	112.9	52.9	0.0	0.0	0.0	0.0	0.0	0.0
91.4	80°	71.7	66.3	87.8	46.6	0.0	0.0	0.0	0.0	0.0	0.0
18.8	82.5°	10.8	9.0	12.5	16.1	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°
52.0	0°	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
36.8	2.5°	36.8	36.8	35.9	36.8	36.8	38.5	43.0	49.3	56.5	59.2
31.4	5°	30.5	29.6	28.7	28.7	28.7	31.4	35.0	42.1	50.2	53.8
26.0	7.5°	25.1	24.2	23.3	22.4	22.4	24.2	28.7	36.8	44.8	48.4
21.5	10°	20.6	18.8	17.9	17.0	17.0	18.8	23.3	31.4	40.3	43.9
17.9	12.5°	17.0	14.3	12.5	11.7	10.8	13.4	17.9	25.1	35.0	39.4
13.4	15°	11.7	9.0	6.3	5.4	4.5	7.2	11.7	19.7	29.6	35.0
7.2	17.5°	6.3	2.7	0.9	0.0	0.0	1.8	5.4	14.3	24.2	28.7
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	17.9	22.4
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	10.8	15.2
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	8.1
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
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	2.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	7.2
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°
52.0	0°	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
61.8	2.5°	63.6	62.7	61.0	59.2	59.2	59.2	61.8	64.5	67.2	67.2
55.6	5°	59.2	59.2	58.3	56.5	56.5	57.4	61.0	65.4	69.0	69.9
51.1	7.5°	54.7	56.5	54.7	53.8	54.7	55.6	59.2	64.5	69.9	71.7
47.5	10°	52.0	52.9	52.9	52.0	52.0	53.8	57.4	64.5	71.7	74.4
43.0	12.5°	48.4	50.2	49.3	49.3	49.3	51.1	55.6	63.6	73.5	77.1
38.5	15°	44.8	47.5	47.5	46.6	46.6	47.5	53.8	62.7	76.2	82.5
33.2	17.5°	41.2	43.9	44.8	43.0	43.0	44.8	51.1	62.7	78.0	88.7
26.9	20°	34.1	38.5	41.2	38.5	38.5	40.3	46.6	59.2	78.9	95.0
19.7	22.5°	26.9	31.4	35.0	34.1	34.1	35.0	43.0	56.5	79.8	105.8
11.7	25°	19.7	24.2	26.9	28.7	28.7	31.4	39.4	54.7	83.4	128.2
5.4	27.5°	11.7	17.0	20.6	22.4	23.3	26.9	36.8	52.9	89.6	160.4
0.0	30°	5.4	9.9	14.3	17.9	17.9	24.2	34.1	51.1	97.7	207.1
0.0	32.5°	0.0	4.5	7.2	12.5	13.4	19.7	31.4	49.3	109.4	251.9
0.0	35°	0.0	0.0	3.6	9.9	9.9	16.1	28.7	47.5	127.3	285.9
0.0	37.5°	0.0	0.0	0.0	7.2	8.1	14.3	27.8	46.6	130.9	288.6
0.0	40°	0.0	0.0	0.0	5.4	6.3	13.4	27.8	47.5	118.3	282.3
0.0	42.5°	0.0	0.0	0.0	3.6	4.5	13.4	27.8	49.3	106.7	289.5
0.0	45°	0.0	0.0	0.0	2.7	3.6	14.3	26.9	48.4	100.4	327.2
0.0	47.5°	0.0	0.0	0.0	3.6	5.4	14.3	26.0	47.5	101.3	451.8
0.0	50°	0.0	0.0	0.0	4.5	6.3	14.3	26.9	45.7	111.1	694.7
0.0	52.5°	0.0	0.0	0.0	3.6	5.4	16.1	29.6	44.8	121.0	903.5
0.0	55°	0.0	0.0	0.0	0.9	2.7	20.6	32.3	44.8	136.2	955.5
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	23.3	36.8	47.5	161.3	934.9
0.0	58°	0.0	0.0	0.0	0.0	0.0	23.3	37.6	47.5	163.1	917.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	23.3	41.2	52.9	175.7	816.6
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	19.7	49.3	66.3	182.9	641.8
0.0	65°	0.0	0.0	0.0	0.0	0.0	16.1	58.3	72.6	188.2	510.9
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	15.2	60.1	73.5	190.9	406.9
0.0	70°	0.0	0.0	0.0	0.0	0.0	16.1	59.2	78.9	199.9	330.8
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	17.9	53.8	86.9	199.9	293.1
0.0	75°	0.0	0.0	0.0	0.0	0.0	18.8	50.2	97.7	182.0	253.7
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	17.9	49.3	113.8	162.2	208.8
0.0	80°	1.8	2.7	2.7	1.8	1.8	15.2	48.4	115.6	138.0	143.4
0.9	82.5°	5.4	7.2	6.3	4.5	4.5	13.4	43.0	96.8	71.7	61.8
5.4	85°	9.9	11.7	11.7	9.9	9.9	12.5	26.9	35.0	24.2	19.7
9.9	87.5°	13.4	15.2	15.2	13.4	13.4	12.5	11.7	10.8	9.9	9.9
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



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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-16

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-940-U-5WQ

Data in this report applies to families of products including GSS-SB1A-940-U-5WQ

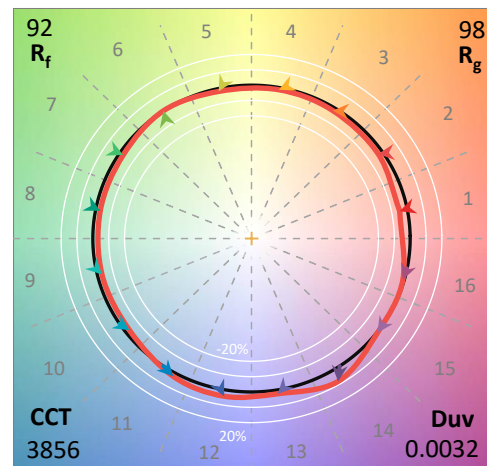
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-16
 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-940-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 4000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3856
 CIE u' : 0.2261
 CIE v' : 0.5084
 Duv: 0.0032
 CIE x: 0.3896
 CIE y: 0.3894
 CIE z: 0.2211
 Peak Wavelength (nm): 614
 Dominant Wavelength (nm): 578
 Purity: 33.77304
 R_f: 91.8
 R_g: 98.4

CRI (Ra): 92.1
 R1: 91.8
 R2: 94.1
 R3: 95.3
 R4: 92.8
 R5: 91.0
 R6: 91.6
 R7: 95.0
 R8: 85.2
 R9: 60.7
 R10: 85.2
 R11: 92.4
 R12: 74.5
 R13: 92.3
 R14: 97.0
 R15: 88.5



Test Conditions

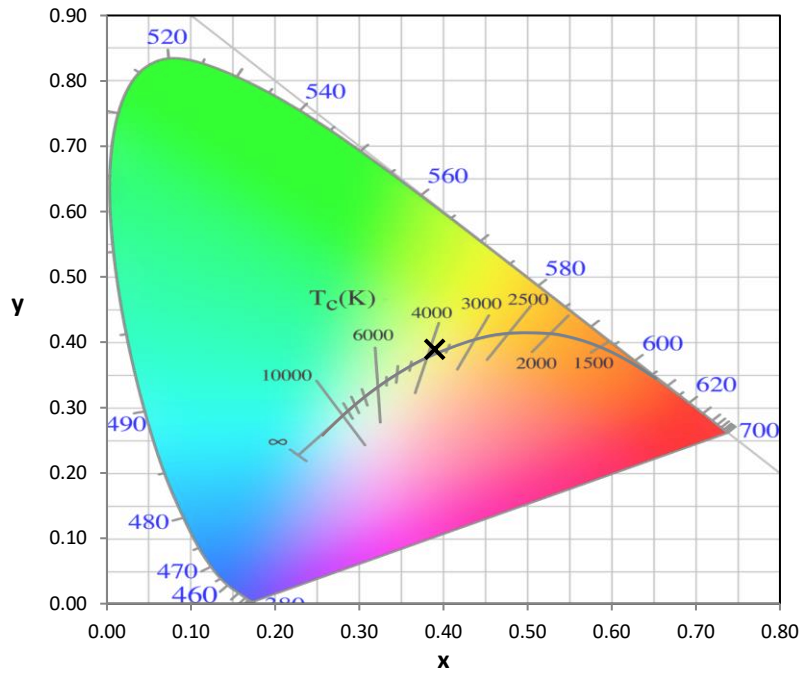
Stabilization Time: 23M
 Operation Time: 1H 23M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-16

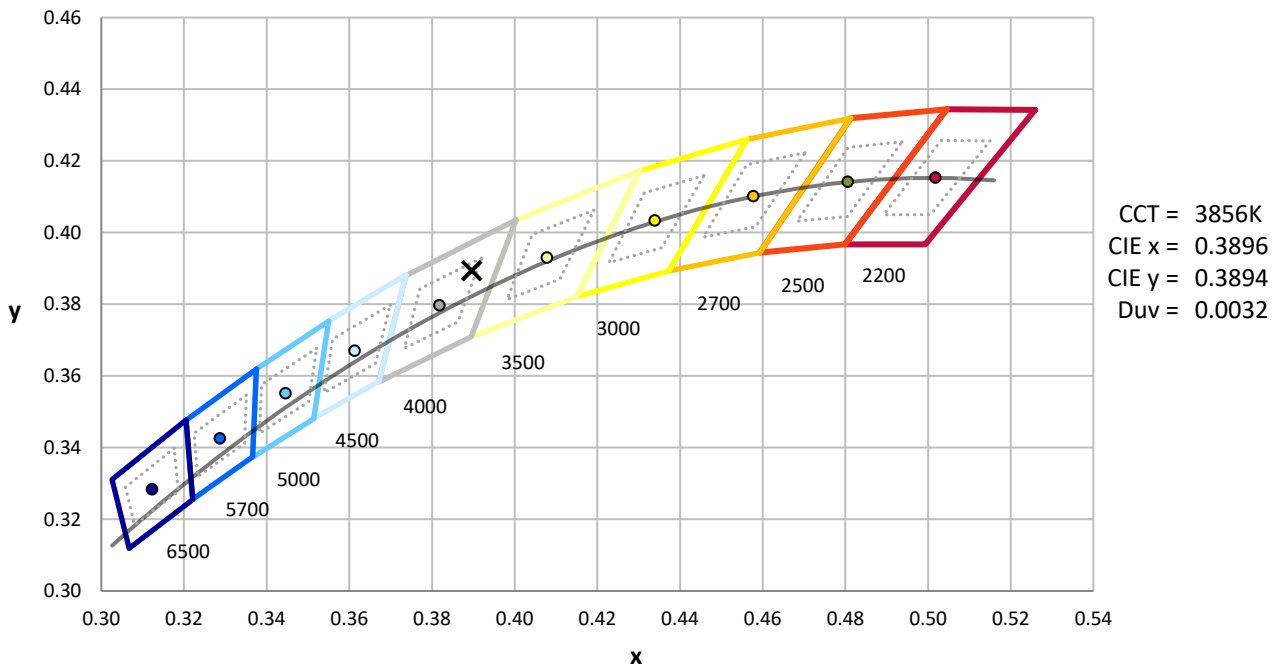
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



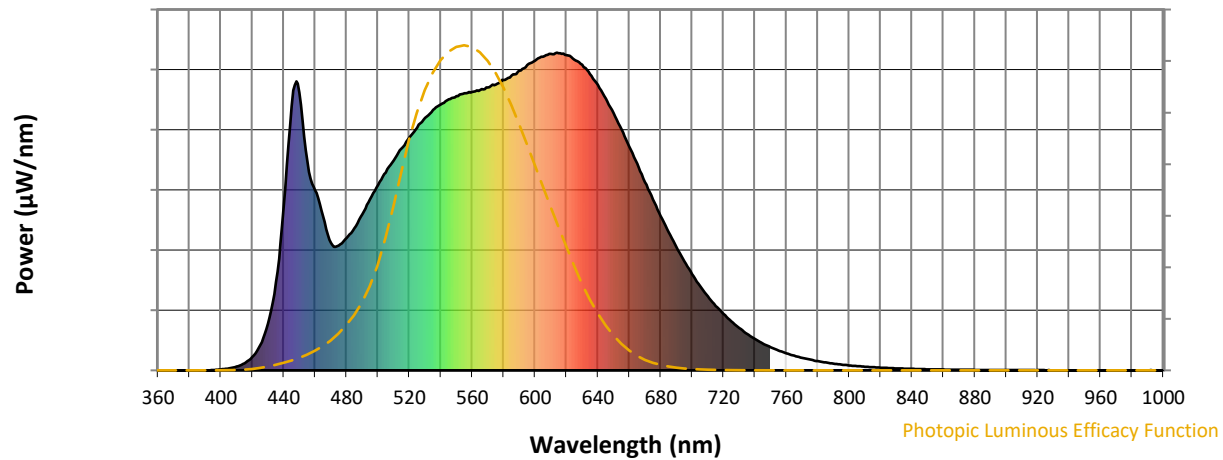
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-16

Photopic Flux vs. Wavelength

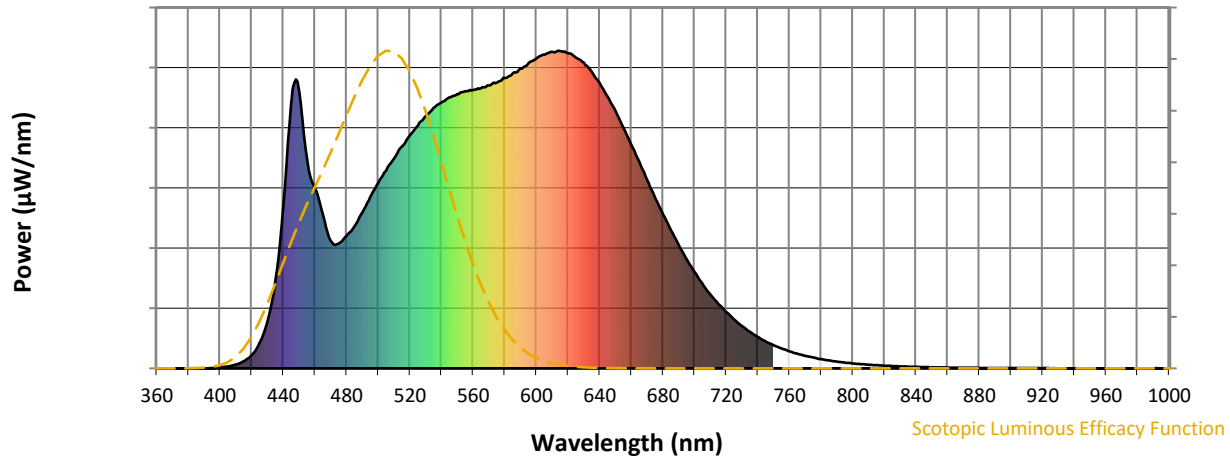


Photopic Lumens: NR

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	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-16

Scotopic Flux vs. Wavelength



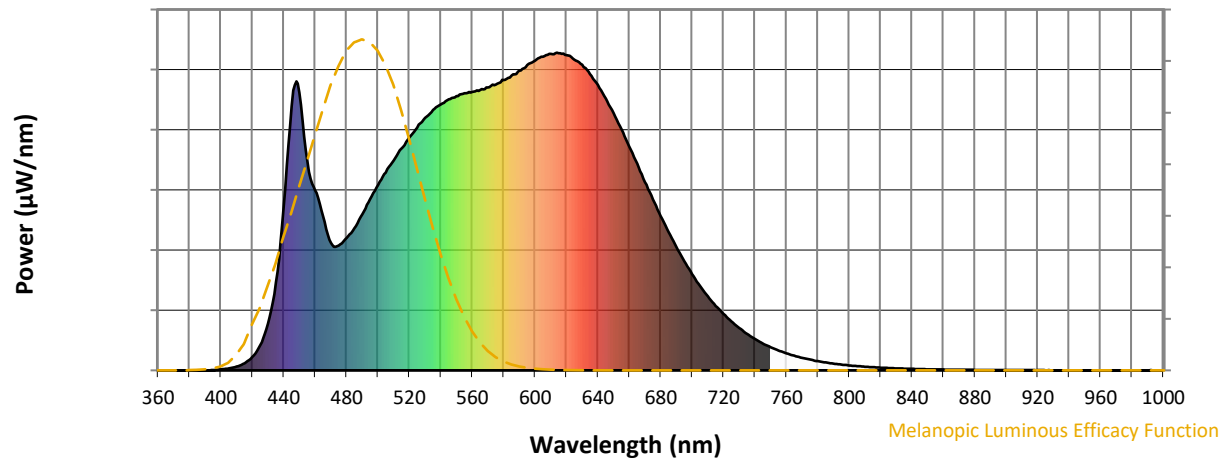
Scotopic Lumens: NR

S/P: 1.72

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	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.52

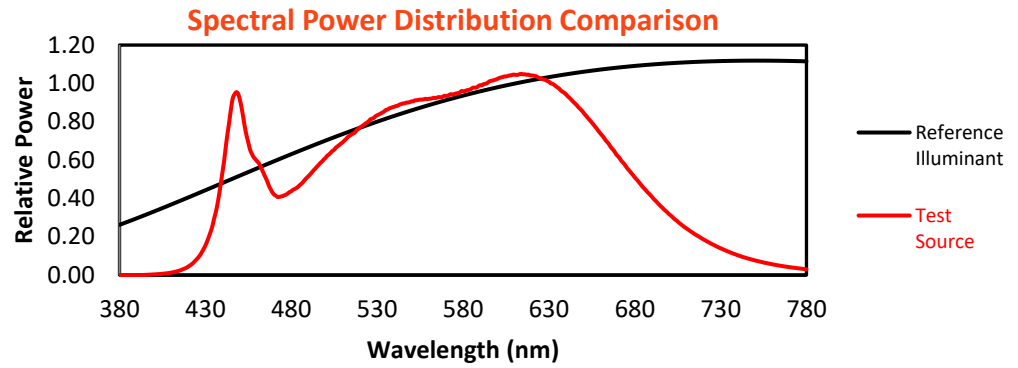
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-16

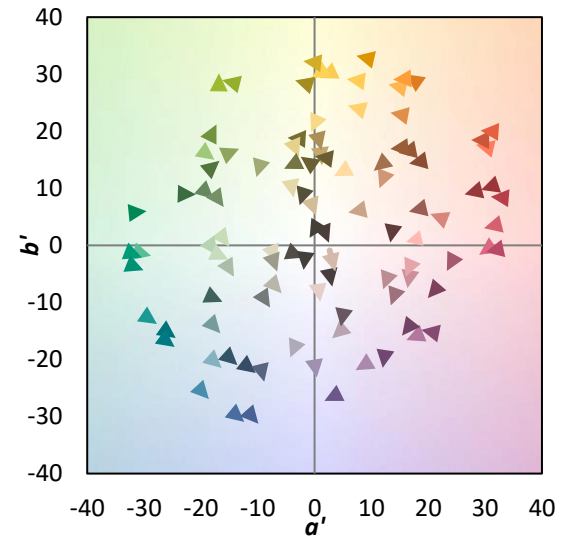
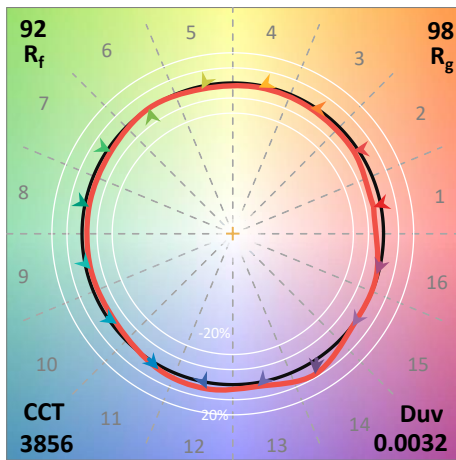
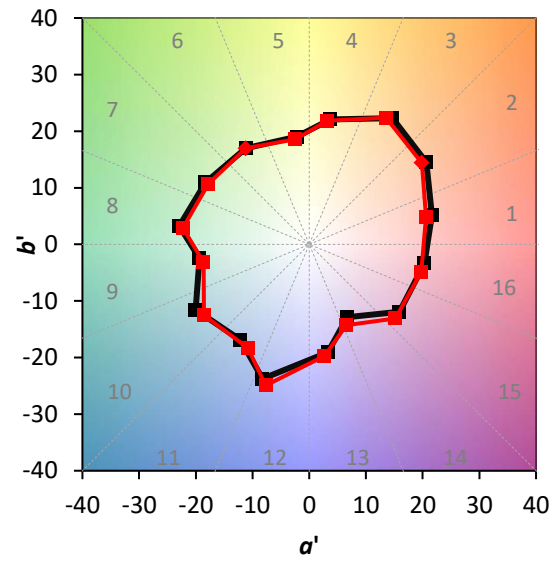
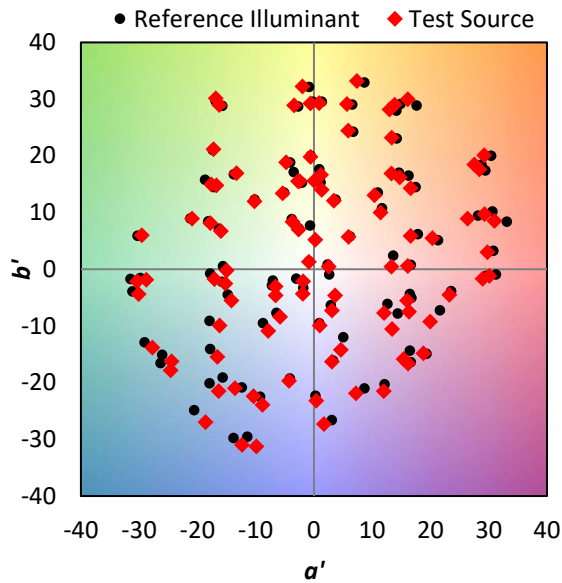
TM-30-18

Summary

$R_f = 91.8$
 $R_g = 98.4$
 $CIE R_a = 92.1$
 $R_9 = 60.7$

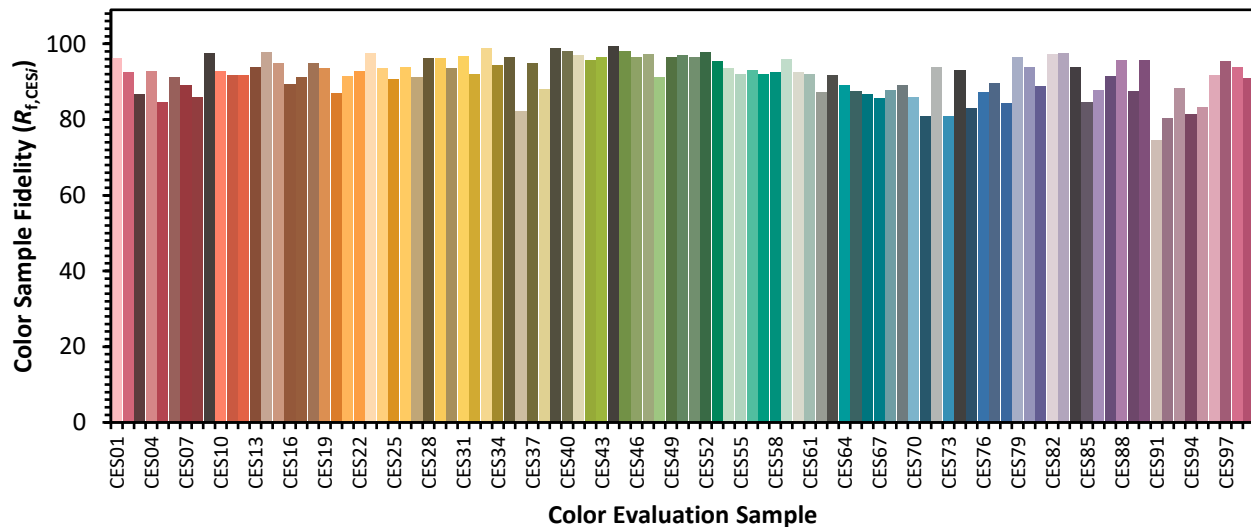


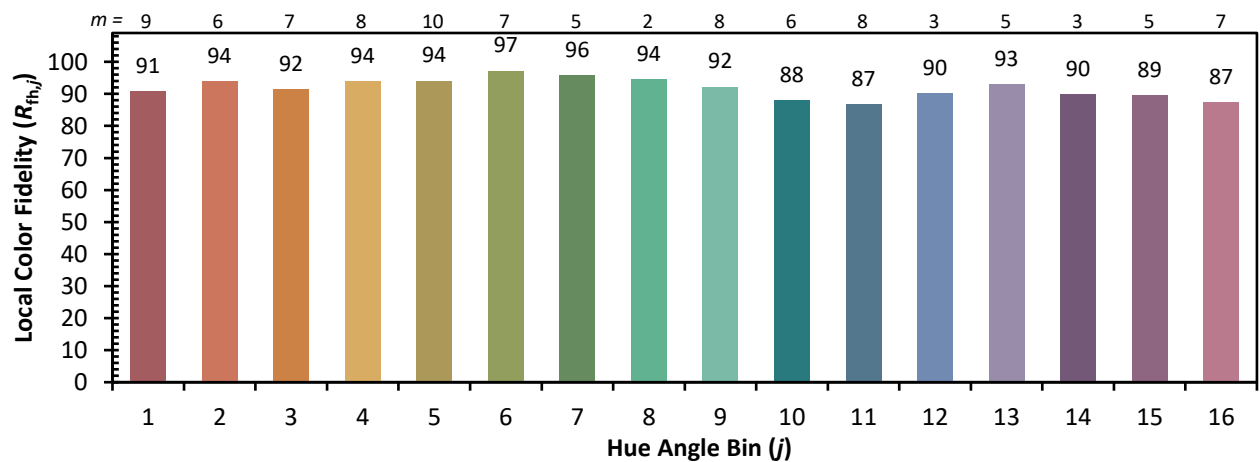
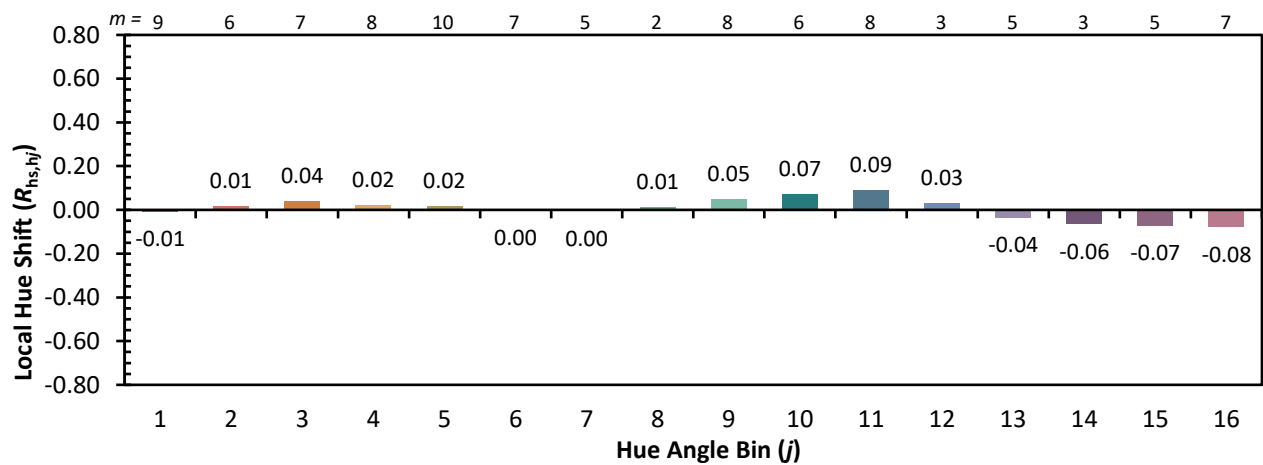
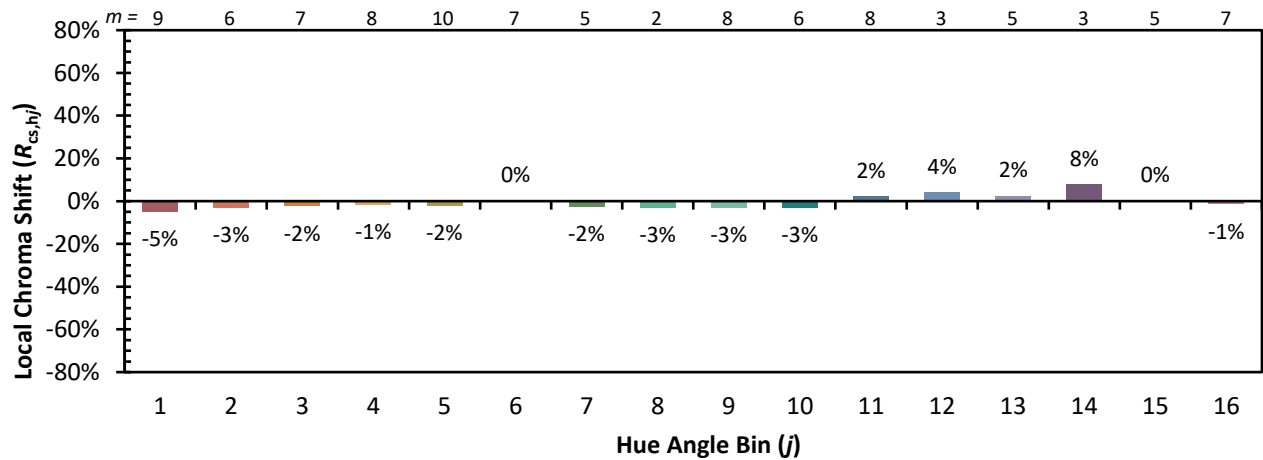
Color Vector Graphics



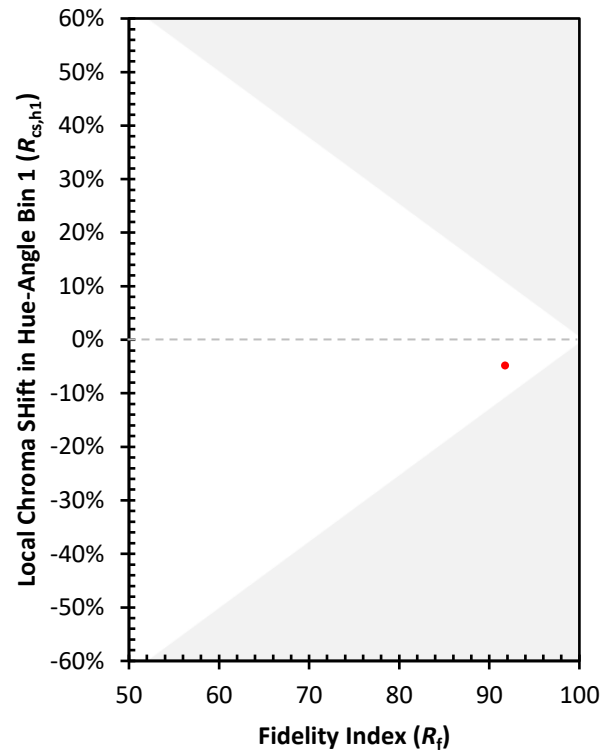
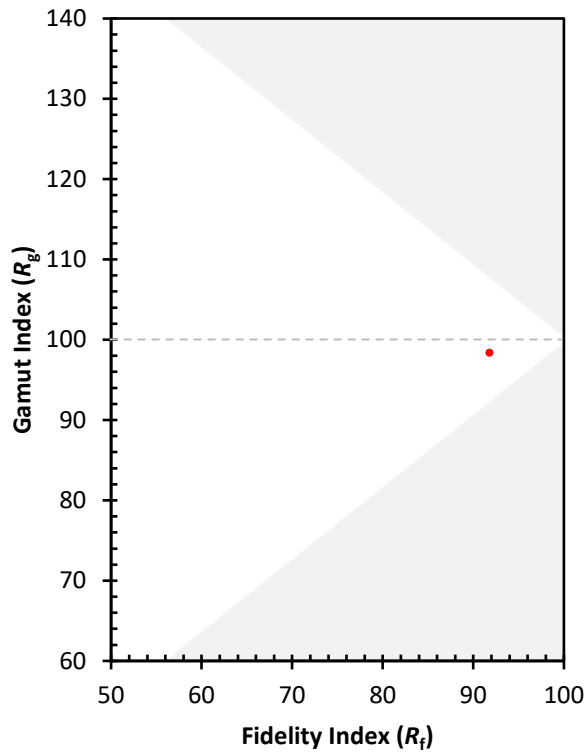
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 94	CES51 = 96	CES76 = 87
CES02 = 62	CES27 = 91	CES52 = 98	CES77 = 90
CES03 = 31	CES28 = 96	CES53 = 95	CES78 = 84
CES04 = 69	CES29 = 96	CES54 = 94	CES79 = 96
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 94
CES06 = 50	CES31 = 97	CES56 = 93	CES81 = 89
CES07 = 42	CES32 = 92	CES57 = 92	CES82 = 97
CES08 = 41	CES33 = 99	CES58 = 92	CES83 = 98
CES09 = 29	CES34 = 94	CES59 = 96	CES84 = 94
CES10 = 74	CES35 = 96	CES60 = 93	CES85 = 85
CES11 = 57	CES36 = 82	CES61 = 92	CES86 = 88
CES12 = 63	CES37 = 95	CES62 = 87	CES87 = 92
CES13 = 43	CES38 = 88	CES63 = 92	CES88 = 96
CES14 = 74	CES39 = 99	CES64 = 89	CES89 = 87
CES15 = 71	CES40 = 98	CES65 = 88	CES90 = 96
CES16 = 47	CES41 = 97	CES66 = 87	CES91 = 74
CES17 = 49	CES42 = 96	CES67 = 86	CES92 = 80
CES18 = 56	CES43 = 96	CES68 = 88	CES93 = 88
CES19 = 71	CES44 = 99	CES69 = 89	CES94 = 82
CES20 = 66	CES45 = 98	CES70 = 86	CES95 = 83
CES21 = 85	CES46 = 97	CES71 = 81	CES96 = 92
CES22 = 78	CES47 = 97	CES72 = 94	CES97 = 95
CES23 = 91	CES48 = 91	CES73 = 81	CES98 = 94
CES24 = 90	CES49 = 96	CES74 = 93	CES99 = 91
CES25 = 71	CES50 = 97	CES75 = 83	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)