

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: P1049765

Luminaire Tested: **GALN-SA5A-830-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049765
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-830-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 5xLight Square PACKAGE
80CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14579.3 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

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

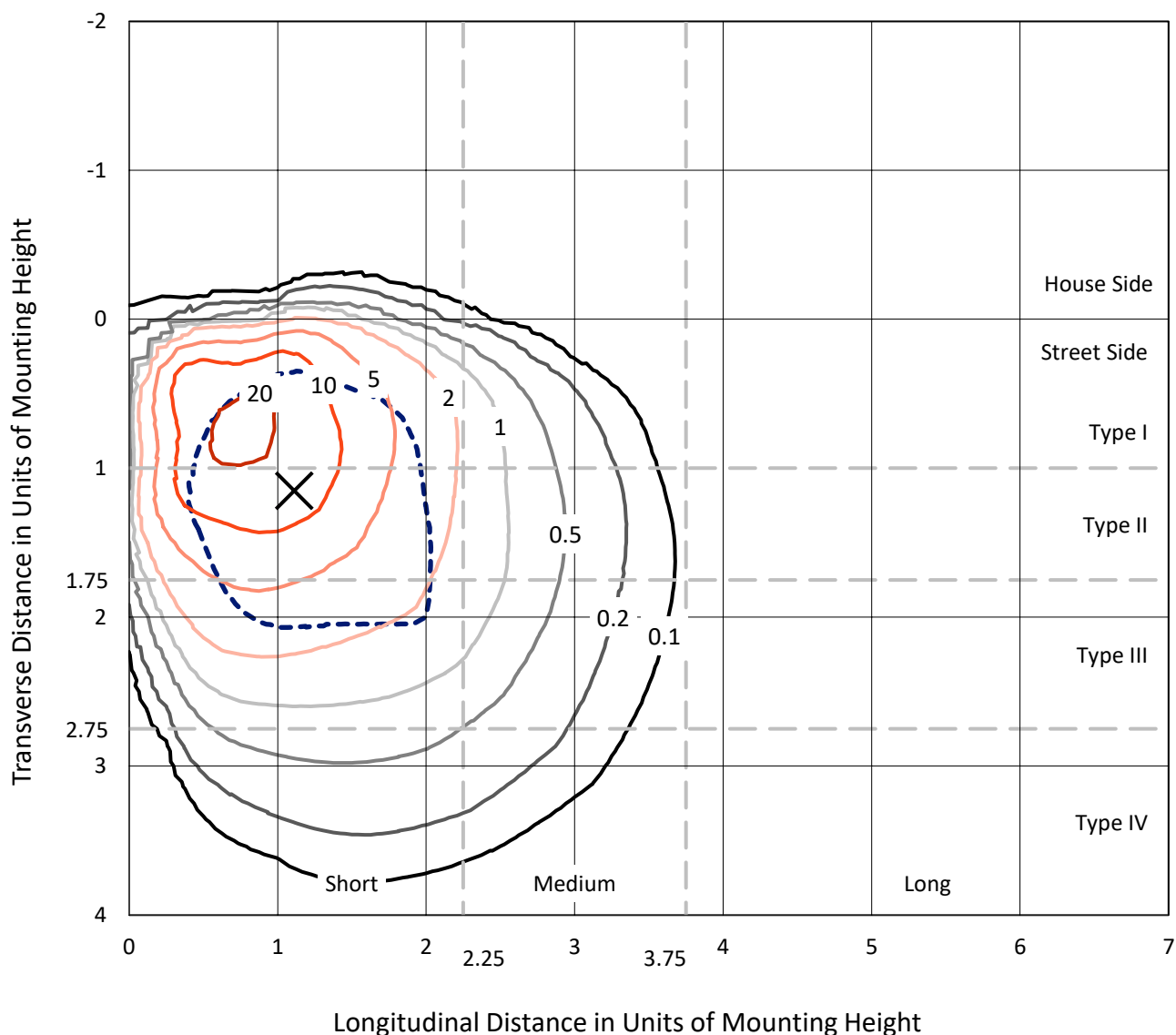
REPORT NUMBER: P1049765

CATALOG NUMBER: GALN-SA5A-830-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

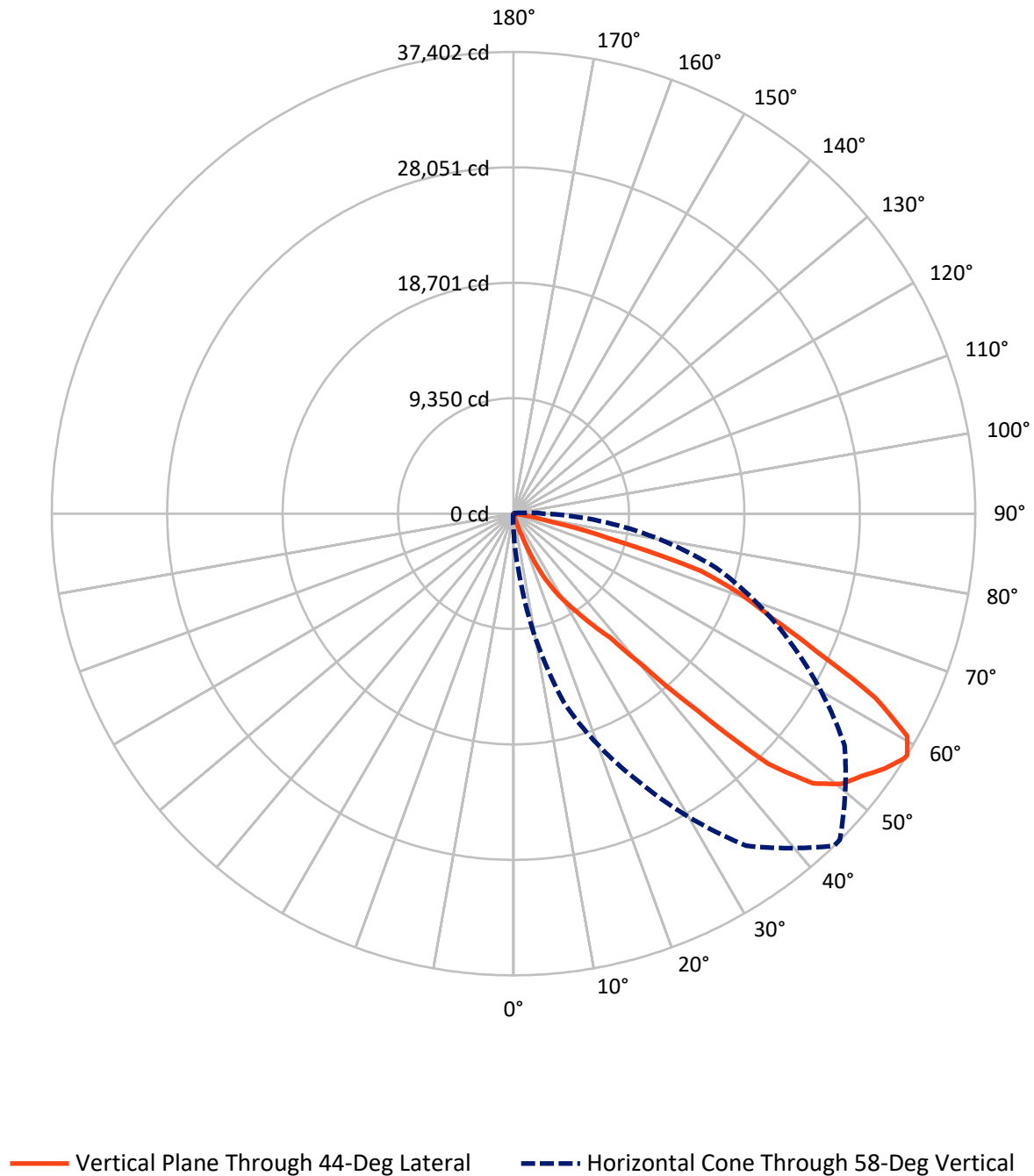


Based on 20 foot mounting height. Maximum calculated value = 25.4 fc

Type III - Short - N/A

REPORT NUMBER: P1049765
CATALOG NUMBER: GALN-SA5A-830-U-LBC

Luminous Intensity Polar Plot



REPORT NUMBER: P1049765

CATALOG NUMBER: GALN-SA5A-830-U-LBC

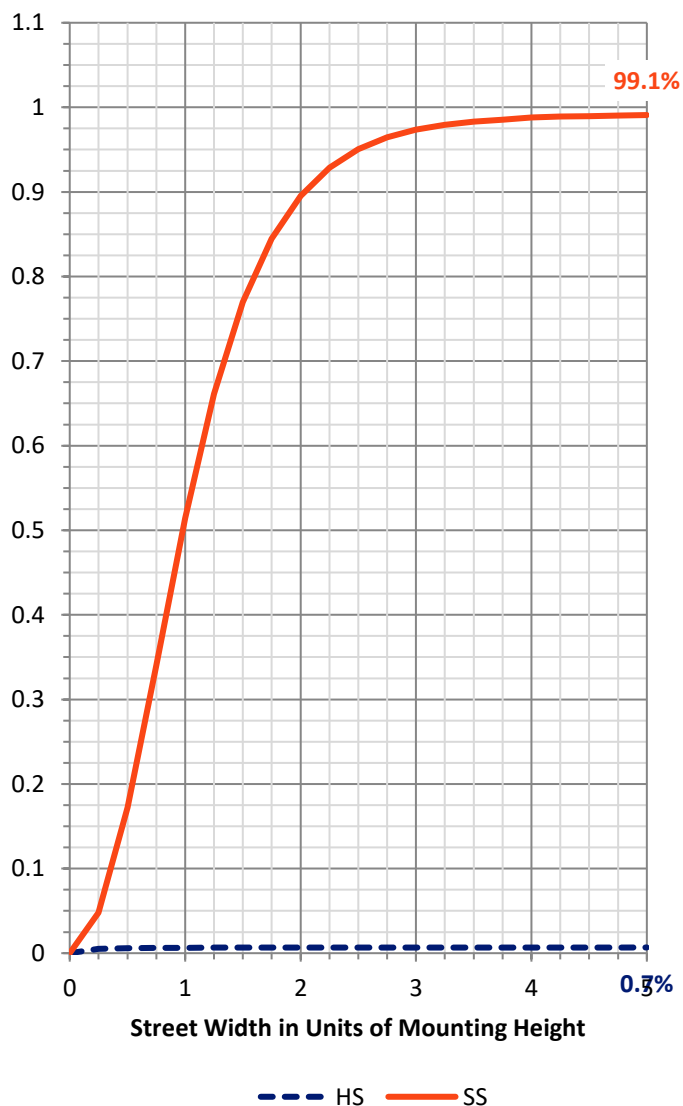
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	99.5	0.0	99.5
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	14479.7	0.0	14479.7
	% Fixture	99.3	0.0	99.3
Total	Lumens	14579.3	0.0	14579.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.7	0.0
10°-20°	32.0	0.2
20°-30°	345.4	2.4
30°-40°	1021.4	7.0
40°-50°	3044.4	20.9
50°-60°	4830.7	33.1
60°-70°	4029.4	27.6
70°-80°	1242.7	8.5
80°-90°	27.6	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°	14579.3	100.0
0°-180°	14579.3	100.0

Coefficient of Utilization



REPORT NUMBER: P1049765

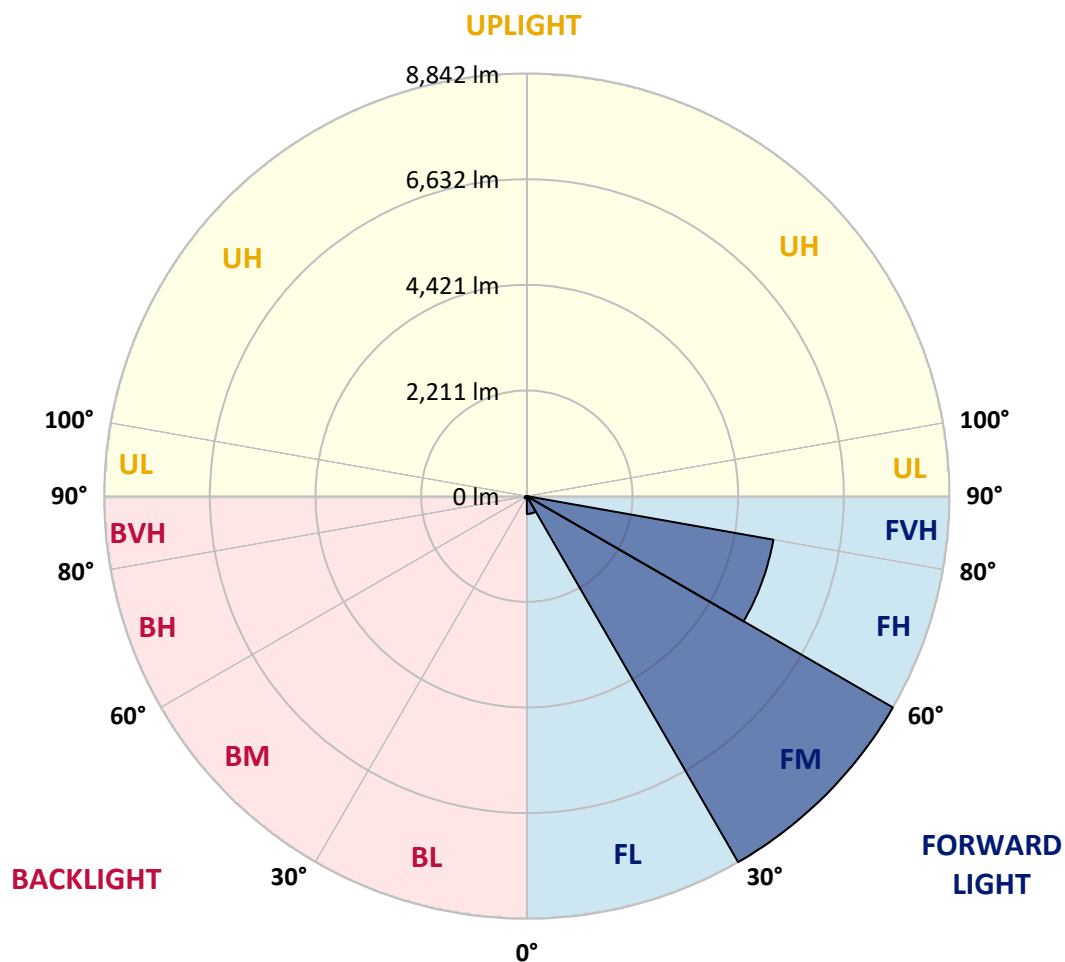
CATALOG NUMBER: GALN-SA5A-830-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	373.3	2.6			
FM	(30°-60°)	8842.0	60.6			
FH	(60°-80°)	5238.1	35.9			G3/7500
FVH	(80°-90°)	26.3	0.2			G1/100
BL	(0°-30°)	9.7	0.1	B0/110		
BM	(30°-60°)	54.5	0.4	B0/220		
BH	(60°-80°)	34.0	0.2	B0/110		G0/110
BVH	(80°-90°)	1.3	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-G3

Type III Short



REPORT NUMBER: P1049765

CATALOG NUMBER: GALN-SA5A-830-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
2.5°	82.6	82.6	79.3	74.9	70.5	66.1	65.0	62.8	61.7	60.6
5°	85.9	85.9	84.8	81.5	77.1	73.8	73.8	70.5	68.3	66.1
7.5°	88.1	89.2	91.4	90.3	88.1	84.8	84.8	82.6	79.3	73.8
10°	91.4	94.7	99.1	101.3	102.4	102.4	101.3	100.2	94.7	87.0
12.5°	94.7	101.3	112.3	123.4	130.0	138.8	137.7	135.5	121.1	104.6
15°	101.3	111.2	134.4	166.3	215.9	246.7	258.8	247.8	200.4	141.0
17.5°	109.0	125.6	194.9	348.0	570.5	676.2	740.1	688.3	456.0	267.6
20°	116.7	153.1	362.3	902.0	1480.2	1826.0	1921.8	1772.1	1137.7	509.9
22.5°	130.0	214.8	734.6	1864.6	3189.5	3708.2	3806.2	3327.2	2148.7	1006.6
25°	157.5	311.7	1266.5	3038.6	4760.0	5635.6	5594.8	4967.1	3485.7	1608.0
27.5°	197.1	453.8	1915.2	4317.3	6264.4	7036.5	7129.0	6352.5	4646.6	2364.6
30°	254.4	628.9	2611.3	5341.5	7470.4	8305.2	8320.6	7517.8	5685.1	3028.7
32.5°	309.5	794.1	3220.3	6331.6	8658.8	9574.0	9642.3	8654.3	6460.5	3720.3
35°	351.3	902.0	3837.1	7201.7	9857.0	11118.1	11113.6	9940.7	7379.0	4338.2
37.5°	354.6	1009.9	4395.5	8091.6	11374.7	12786.6	12926.5	11633.5	8489.1	5102.5
40°	346.9	1131.1	5102.5	9479.3	14109.3	16275.6	16399.0	14769.0	10716.1	6410.9
42.5°	355.7	1341.4	6250.1	12042.1	18650.1	21761.4	21999.3	20285.6	14809.8	9080.6
45°	402.0	1736.8	8654.3	16329.6	25122.7	28915.7	28836.4	26368.3	19573.1	13144.5
47.5°	555.1	2704.9	12218.3	20502.6	29259.4	32637.2	32705.5	29688.9	22352.8	16269.0
50°	853.5	4138.8	15212.8	22708.6	31038.0	34426.9	34363.0	30877.2	23409.0	17807.6
52.5°	1110.2	5176.3	16715.1	23482.8	31266.0	35311.2	35306.8	31190.0	23573.1	17939.8
55°	1174.0	5254.5	16727.2	23524.7	31777.0	36468.7	36614.1	31959.9	23785.7	17362.7
57.5°	1148.7	4652.1	16028.9	23767.0	32686.7	37364.1	37371.8	32705.5	24325.3	17009.1
58°	1126.7	4557.4	15888.0	23904.6	32843.1	37401.6	37382.9	32739.6	24764.8	16995.9
60°	1003.3	3957.1	15338.4	24256.0	32610.7	36632.8	36457.7	31994.0	24699.8	16860.4
62.5°	788.6	3087.1	14797.6	23849.6	30119.5	32911.4	32984.1	28325.4	22516.9	16070.8
65°	627.8	2300.7	13669.9	20920.0	24802.2	27026.9	27297.9	23033.5	18794.4	13608.2
67.5°	500.0	1663.0	11467.2	16655.6	19625.9	22556.6	22753.7	19338.5	14560.8	10426.4
70°	406.4	1124.5	7915.3	12180.8	16187.5	19482.7	19494.9	16065.3	10868.0	6831.6
72.5°	360.1	778.6	4594.8	8883.4	13125.8	15875.8	15555.4	13036.6	8352.6	4046.3
75°	311.7	516.5	2253.3	5430.7	7958.3	8012.3	8134.5	6047.5	4175.2	1924.0
77.5°	256.6	366.7	887.7	1483.5	2386.6	3055.1	3168.6	2400.9	1388.8	473.6
80°	176.2	174.0	239.0	454.9	682.8	855.7	798.5	617.9	363.4	181.7
82.5°	76.0	82.6	107.9	130.0	105.7	102.4	98.0	62.8	48.5	37.4
85°	24.2	22.0	23.1	23.1	18.7	14.3	14.3	6.6	0.0	0.0
87.5°	12.1	9.9	9.9	8.8	5.5	2.2	1.1	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: P1049765

CATALOG NUMBER: GALN-SA5A-830-U-LBC

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
63.9	0°	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
59.5	2.5°	58.4	58.4	56.2	54.0	52.9	50.7	49.6	48.5	47.4	46.3
63.9	5°	61.7	60.6	57.3	54.0	50.7	47.4	45.2	43.0	40.7	39.6
70.5	7.5°	67.2	65.0	58.4	52.9	48.5	44.1	41.9	38.5	36.3	33.0
78.2	10°	73.8	69.4	60.6	54.0	47.4	41.9	38.5	35.2	31.9	27.5
89.2	12.5°	82.6	74.9	63.9	52.9	45.2	38.5	35.2	30.8	27.5	24.2
103.5	15°	90.3	80.4	65.0	52.9	43.0	35.2	30.8	26.4	23.1	18.7
130.0	17.5°	101.3	84.8	63.9	49.6	39.6	30.8	26.4	23.1	17.6	11.0
192.7	20°	120.0	88.1	61.7	46.3	34.1	25.3	19.8	15.4	7.7	2.2
289.7	22.5°	149.8	96.9	59.5	41.9	29.7	19.8	13.2	5.5	0.0	0.0
440.5	25°	207.1	112.3	59.5	39.6	26.4	14.3	4.4	0.0	0.0	0.0
625.6	27.5°	275.3	133.3	59.5	34.1	20.9	7.7	0.0	0.0	0.0	0.0
852.4	30°	344.7	156.4	59.5	29.7	16.5	1.1	0.0	0.0	0.0	0.0
1049.6	32.5°	410.8	176.2	60.6	25.3	11.0	0.0	0.0	0.0	0.0	0.0
1322.7	35°	478.0	179.5	59.5	22.0	6.6	0.0	0.0	0.0	0.0	0.0
1657.5	37.5°	563.9	172.9	56.2	19.8	3.3	0.0	0.0	0.0	0.0	0.0
2180.7	40°	693.8	176.2	52.9	18.7	1.1	0.0	0.0	0.0	0.0	0.0
3113.5	42.5°	933.9	190.5	48.5	18.7	0.0	0.0	0.0	0.0	0.0	0.0
4959.3	45°	1614.6	255.5	44.1	19.8	0.0	0.0	0.0	0.0	0.0	0.0
7445.1	47.5°	2670.8	459.3	43.0	19.8	0.0	0.0	0.0	0.0	0.0	0.0
8968.2	50°	3408.7	578.2	45.2	20.9	0.0	0.0	0.0	0.0	0.0	0.0
9158.8	52.5°	3403.1	644.3	47.4	22.0	4.4	0.0	0.0	0.0	0.0	0.0
8441.8	55°	3025.4	656.4	50.7	24.2	14.3	0.0	0.0	0.0	0.0	0.0
7254.5	57.5°	2528.7	599.1	58.4	29.7	26.4	0.0	0.0	0.0	0.0	0.0
7068.4	58°	2440.6	572.7	60.6	30.8	28.6	0.0	0.0	0.0	0.0	0.0
6131.2	60°	2000.0	467.0	77.1	38.5	38.5	0.0	0.0	0.0	0.0	0.0
5026.5	62.5°	1381.1	407.5	88.1	49.6	39.6	0.0	0.0	0.0	0.0	0.0
3706.0	65°	976.9	367.8	95.8	52.9	31.9	0.0	0.0	0.0	0.0	0.0
2633.3	67.5°	730.2	339.2	105.7	54.0	16.5	0.0	0.0	0.0	0.0	0.0
1652.0	70°	559.5	318.3	130.0	57.3	4.4	0.0	0.0	0.0	0.0	0.0
984.6	72.5°	456.0	294.1	157.5	59.5	0.0	0.0	0.0	0.0	0.0	0.0
590.3	75°	377.8	265.4	152.0	65.0	0.0	0.0	0.0	0.0	0.0	0.0
315.0	77.5°	251.1	206.0	138.8	65.0	0.0	0.0	0.0	0.0	0.0	0.0
112.3	80°	88.1	81.5	107.9	57.3	0.0	0.0	0.0	0.0	0.0	0.0
23.1	82.5°	13.2	11.0	15.4	19.8	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: P1049765

CATALOG NUMBER: GALN-SA5A-830-U-LBC

CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
63.9	0°	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
45.2	2.5°	45.2	45.2	44.1	45.2	45.2	47.4	52.9	60.6	69.4	72.7
38.5	5°	37.4	36.3	35.2	35.2	35.2	38.5	43.0	51.8	61.7	66.1
31.9	7.5°	30.8	29.7	28.6	27.5	27.5	29.7	35.2	45.2	55.1	59.5
26.4	10°	25.3	23.1	22.0	20.9	20.9	23.1	28.6	38.5	49.6	54.0
22.0	12.5°	20.9	17.6	15.4	14.3	13.2	16.5	22.0	30.8	43.0	48.5
16.5	15°	14.3	11.0	7.7	6.6	5.5	8.8	14.3	24.2	36.3	43.0
8.8	17.5°	7.7	3.3	1.1	0.0	0.0	2.2	6.6	17.6	29.7	35.2
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	22.0	27.5
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	13.2	18.7
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	9.9
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
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	3.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.8
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: P1049765

CATALOG NUMBER: GALN-SA5A-830-U-LBC

CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
63.9	0°	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
76.0	2.5°	78.2	77.1	74.9	72.7	72.7	72.7	76.0	79.3	82.6	82.6
68.3	5°	72.7	72.7	71.6	69.4	69.4	70.5	74.9	80.4	84.8	85.9
62.8	7.5°	67.2	69.4	67.2	66.1	67.2	68.3	72.7	79.3	85.9	88.1
58.4	10°	63.9	65.0	65.0	63.9	63.9	66.1	70.5	79.3	88.1	91.4
52.9	12.5°	59.5	61.7	60.6	60.6	60.6	62.8	68.3	78.2	90.3	94.7
47.4	15°	55.1	58.4	58.4	57.3	57.3	58.4	66.1	77.1	93.6	101.3
40.7	17.5°	50.7	54.0	55.1	52.9	52.9	55.1	62.8	77.1	95.8	109.0
33.0	20°	41.9	47.4	50.7	47.4	47.4	49.6	57.3	72.7	96.9	116.7
24.2	22.5°	33.0	38.5	43.0	41.9	41.9	43.0	52.9	69.4	98.0	130.0
14.3	25°	24.2	29.7	33.0	35.2	35.2	38.5	48.5	67.2	102.4	157.5
6.6	27.5°	14.3	20.9	25.3	27.5	28.6	33.0	45.2	65.0	110.1	197.1
0.0	30°	6.6	12.1	17.6	22.0	22.0	29.7	41.9	62.8	120.0	254.4
0.0	32.5°	0.0	5.5	8.8	15.4	16.5	24.2	38.5	60.6	134.4	309.5
0.0	35°	0.0	0.0	4.4	12.1	12.1	19.8	35.2	58.4	156.4	351.3
0.0	37.5°	0.0	0.0	0.0	8.8	9.9	17.6	34.1	57.3	160.8	354.6
0.0	40°	0.0	0.0	0.0	6.6	7.7	16.5	34.1	58.4	145.4	346.9
0.0	42.5°	0.0	0.0	0.0	4.4	5.5	16.5	34.1	60.6	131.1	355.7
0.0	45°	0.0	0.0	0.0	3.3	4.4	17.6	33.0	59.5	123.4	402.0
0.0	47.5°	0.0	0.0	0.0	4.4	6.6	17.6	31.9	58.4	124.5	555.1
0.0	50°	0.0	0.0	0.0	5.5	7.7	17.6	33.0	56.2	136.6	853.5
0.0	52.5°	0.0	0.0	0.0	4.4	6.6	19.8	36.3	55.1	148.7	1110.2
0.0	55°	0.0	0.0	0.0	1.1	3.3	25.3	39.6	55.1	167.4	1174.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	28.6	45.2	58.4	198.2	1148.7
0.0	58°	0.0	0.0	0.0	0.0	0.0	28.6	46.3	58.4	200.4	1126.7
0.0	60°	0.0	0.0	0.0	0.0	0.0	28.6	50.7	65.0	215.9	1003.3
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	24.2	60.6	81.5	224.7	788.6
0.0	65°	0.0	0.0	0.0	0.0	0.0	19.8	71.6	89.2	231.3	627.8
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	18.7	73.8	90.3	234.6	500.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	19.8	72.7	96.9	245.6	406.4
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	22.0	66.1	106.8	245.6	360.1
0.0	75°	0.0	0.0	0.0	0.0	0.0	23.1	61.7	120.0	223.6	311.7
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	22.0	60.6	139.9	199.3	256.6
0.0	80°	2.2	3.3	3.3	2.2	2.2	18.7	59.5	142.1	169.6	176.2
1.1	82.5°	6.6	8.8	7.7	5.5	5.5	16.5	52.9	118.9	88.1	76.0
6.6	85°	12.1	14.3	14.3	12.1	12.1	15.4	33.0	43.0	29.7	24.2
12.1	87.5°	16.5	18.7	18.7	16.5	16.5	15.4	14.3	13.2	12.1	12.1
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: SP1-2407-184-9

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-830-U-5WQ

Data in this report applies to families of products including GSS-SB1A-830-U-5WQ

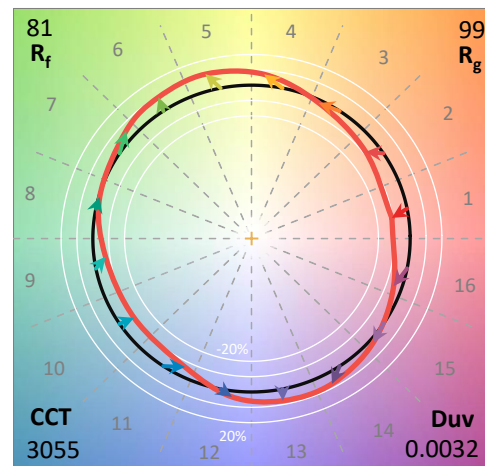
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-9
 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-830-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3055
 CIE u' : 0.2475
 CIE v' : 0.5247
 Duv: 0.0032
 CIE x: 0.4377
 CIE y: 0.4124
 CIE z: 0.1499
 Peak Wavelength (nm): 604
 Dominant Wavelength (nm): 581
 Purity: 55.16339
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 80.9
 R1: 79.5
 R2: 85.6
 R3: 92.1
 R4: 82.4
 R5: 78.9
 R6: 81.7
 R7: 85.1
 R8: 61.9
 R9: 6.8
 R10: 67.1
 R11: 82.5
 R12: 63.4
 R13: 80.2
 R14: 95.1
 R15: 71.7



Test Conditions

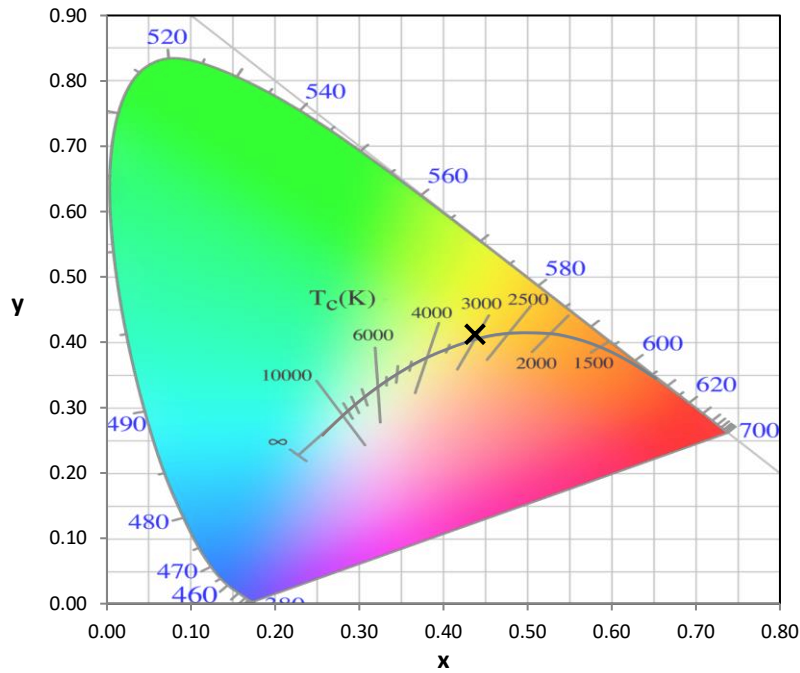
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-9

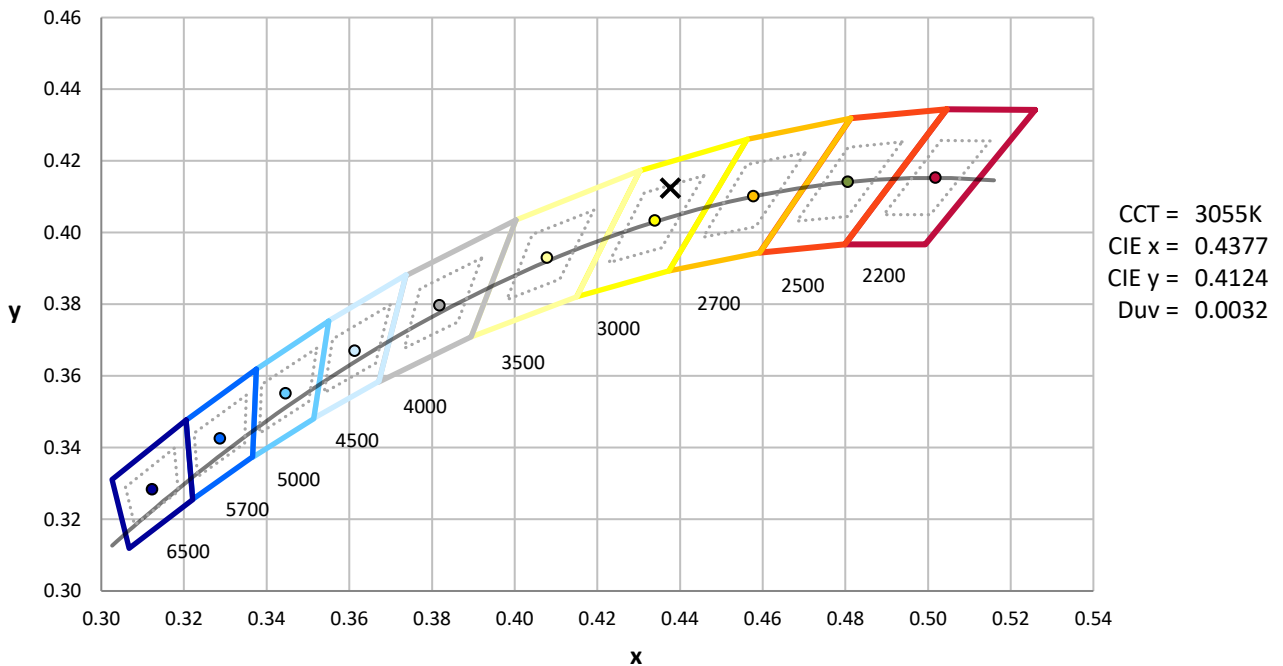
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-9

CIE 1931 Chromaticity Diagram



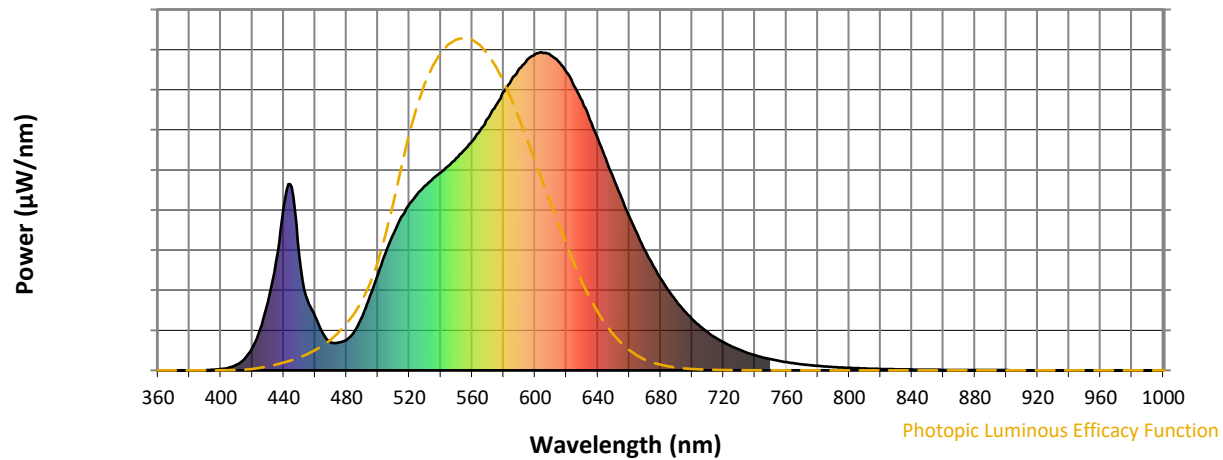
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-9

Photopic Flux vs. Wavelength

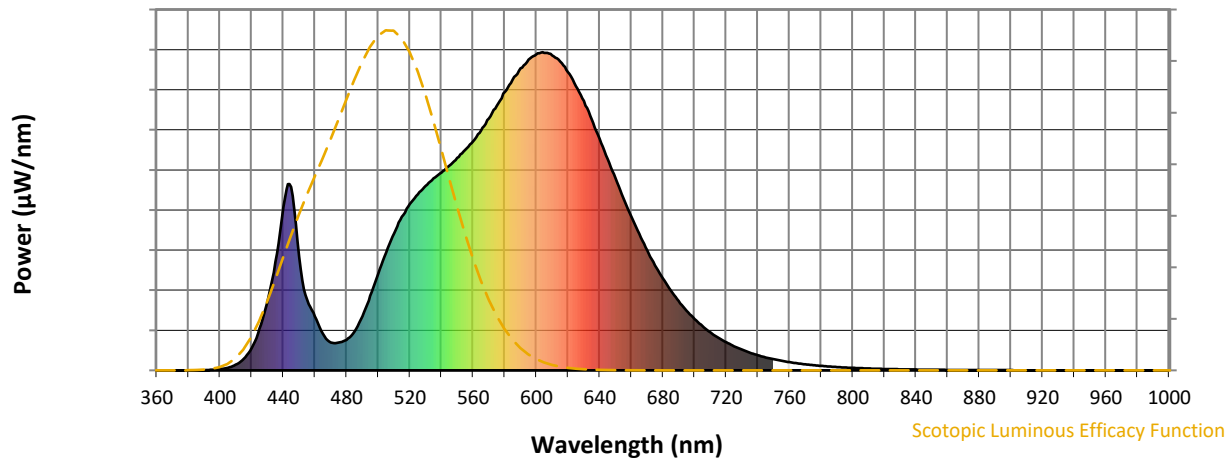


Photopic Lumens: NR

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Scotopic Flux vs. Wavelength



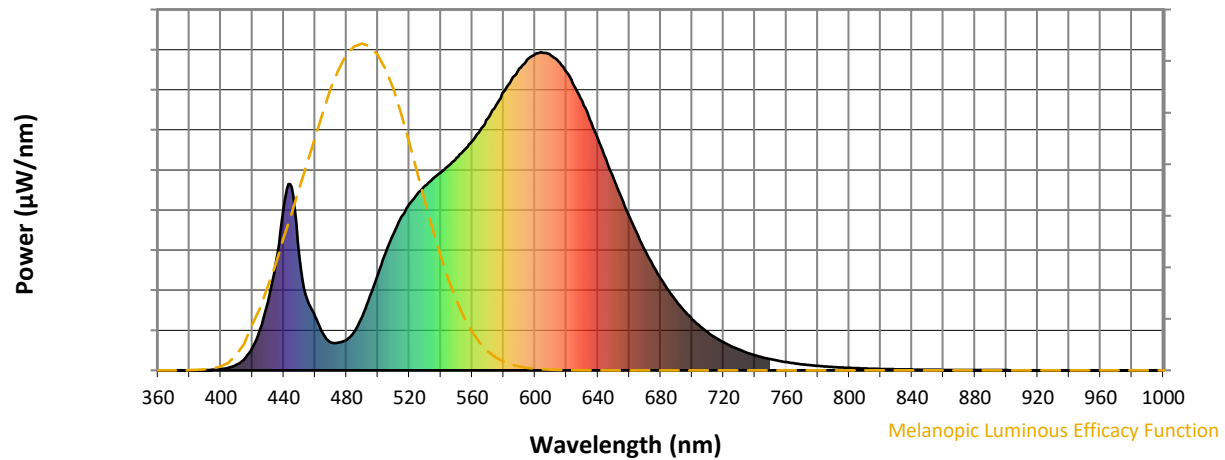
Scotopic Lumens: NR

S/P: 1.28

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.33

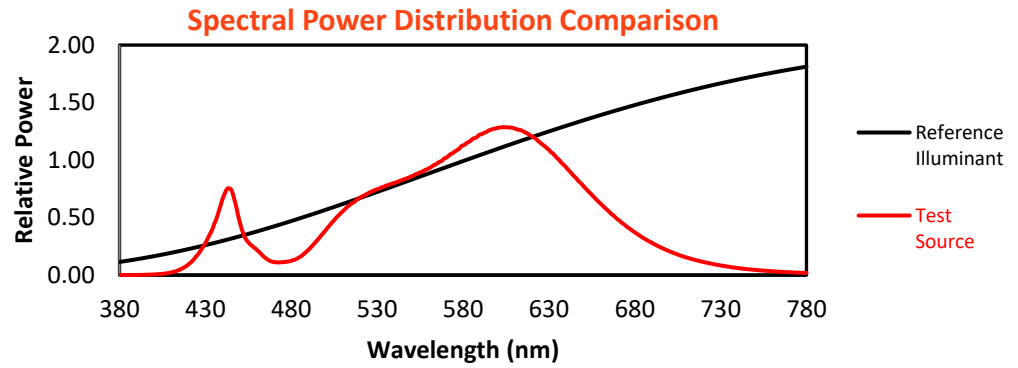
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

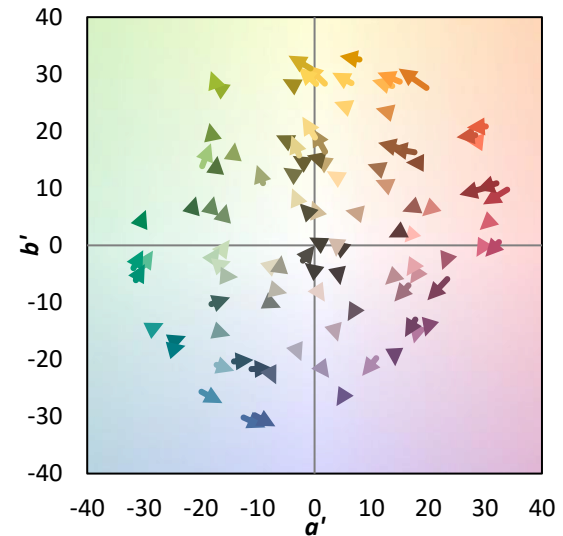
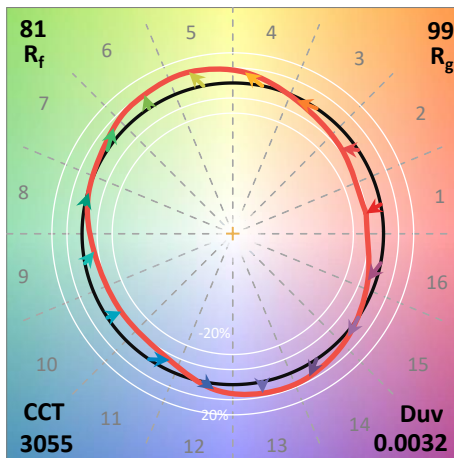
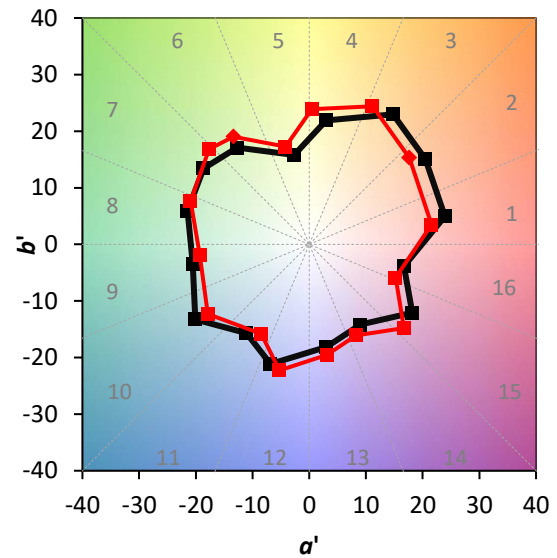
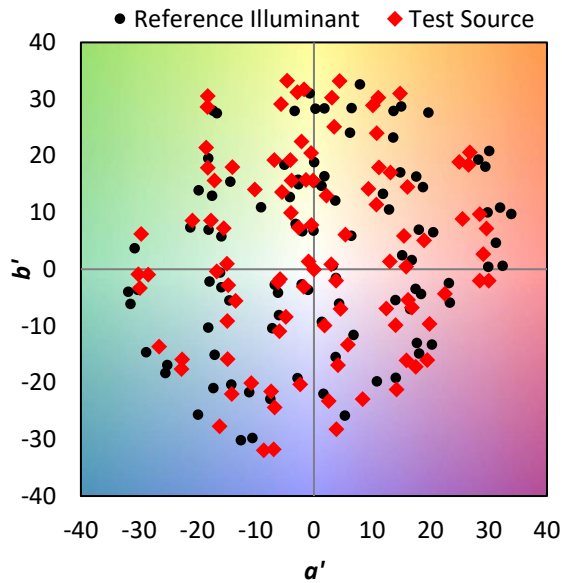
TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 80.9$
 $R_9 = 6.8$

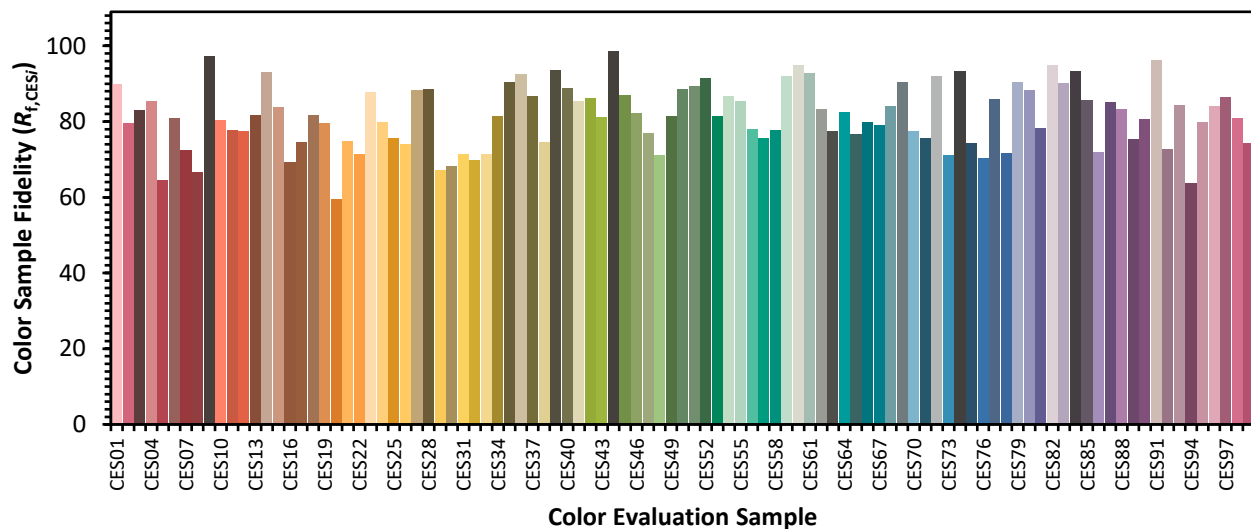


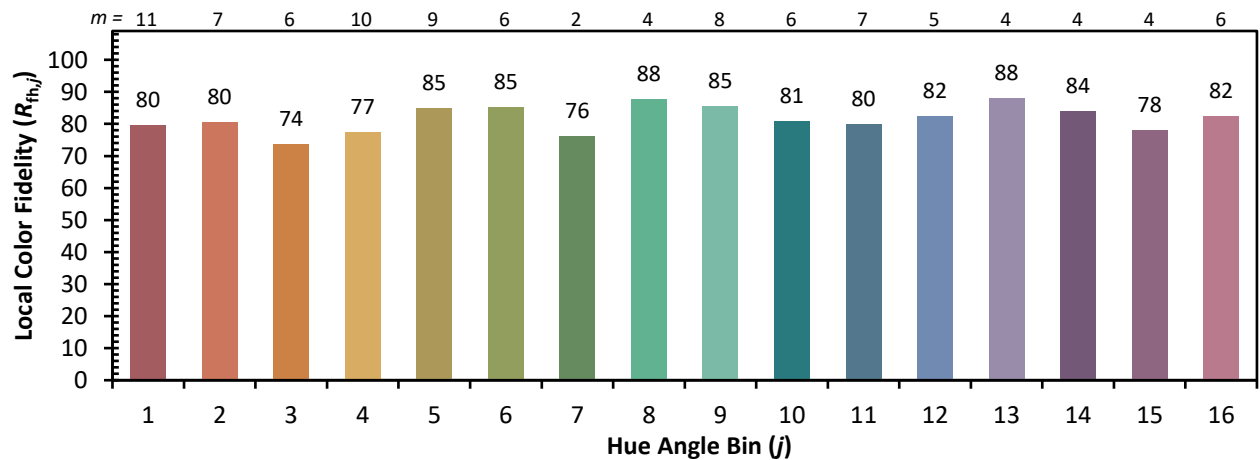
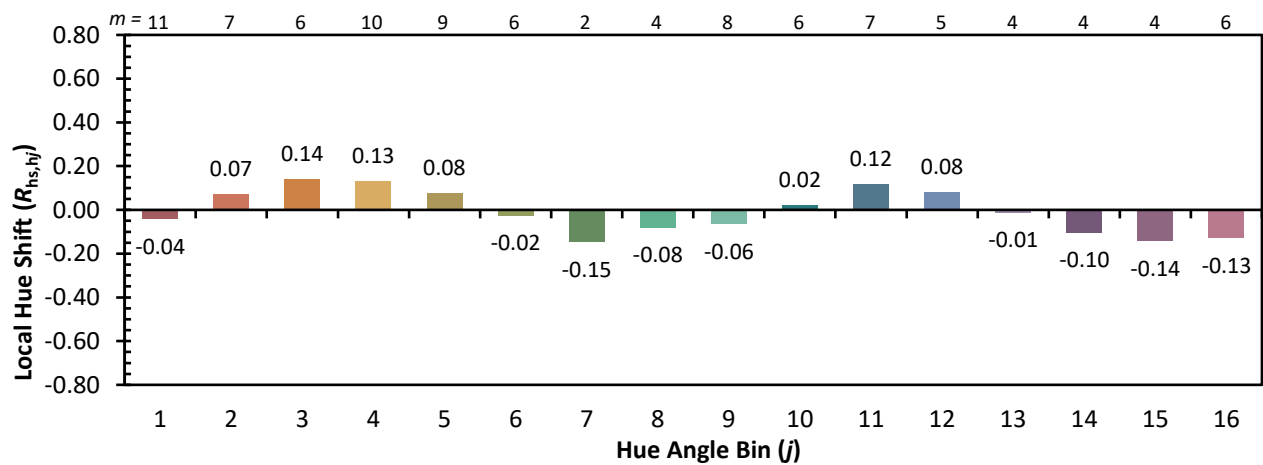
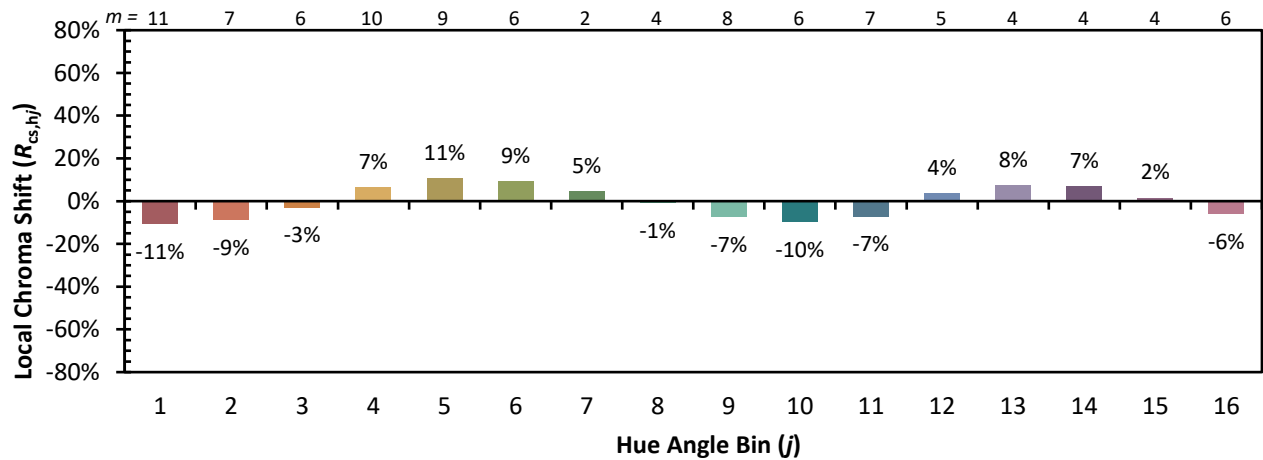
Color Vector Graphics



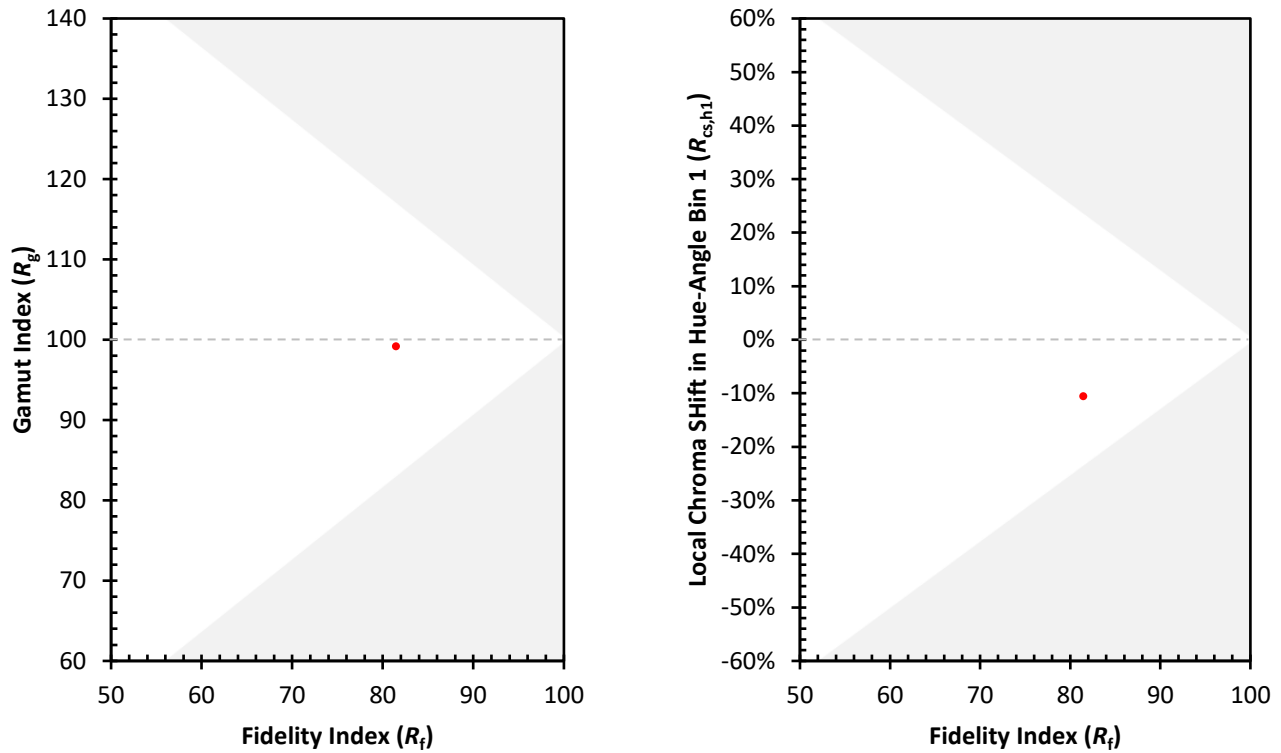
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 93
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 90	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 77	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)