

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: P1049947

Luminaire Tested: **GALN-SA5C-930-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049947
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-930-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 5xLight Square PACKAGE
90CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

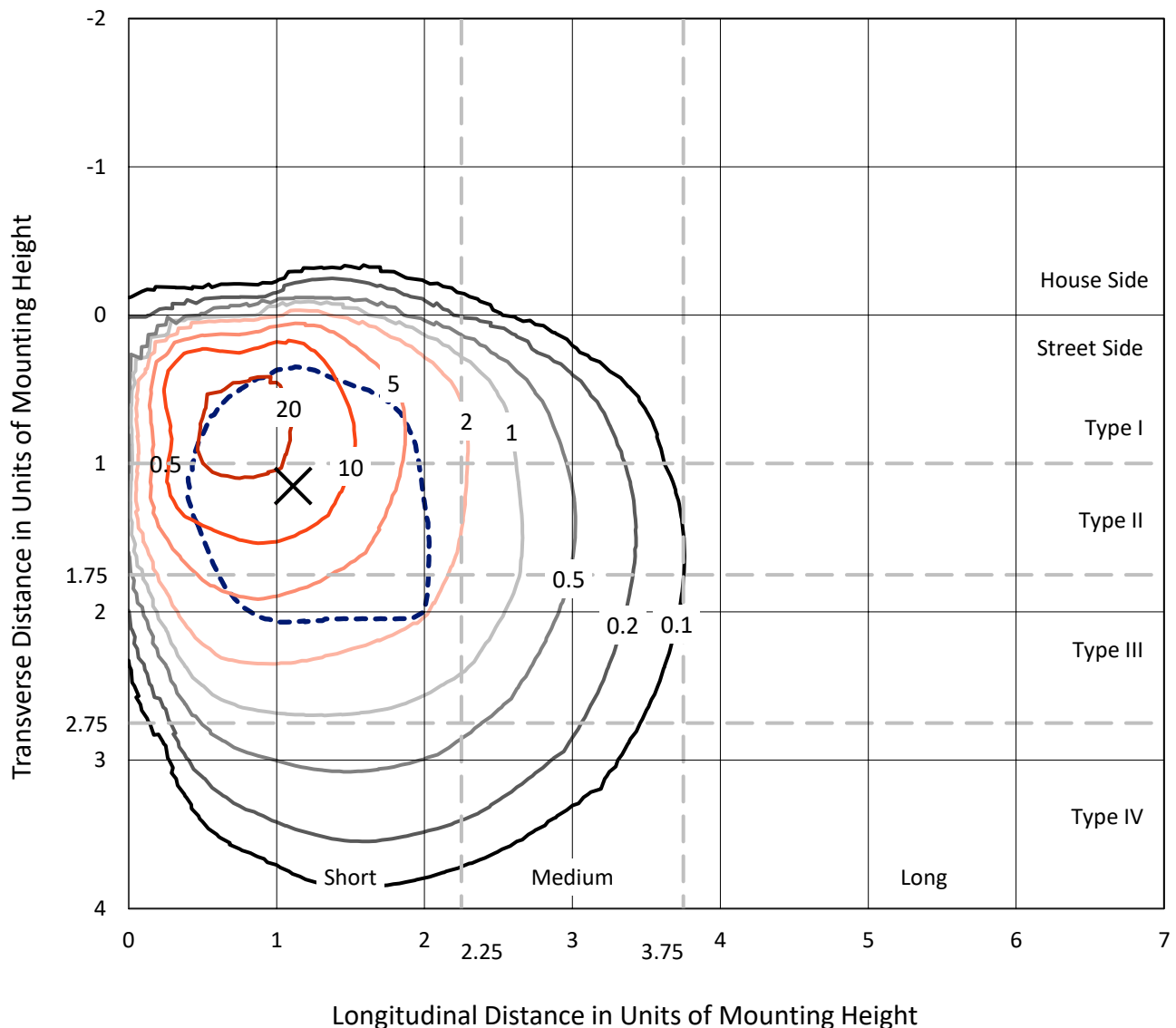
Lumens per Lamp: N/A
Luminaire Lumens: 17448.2 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 236
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

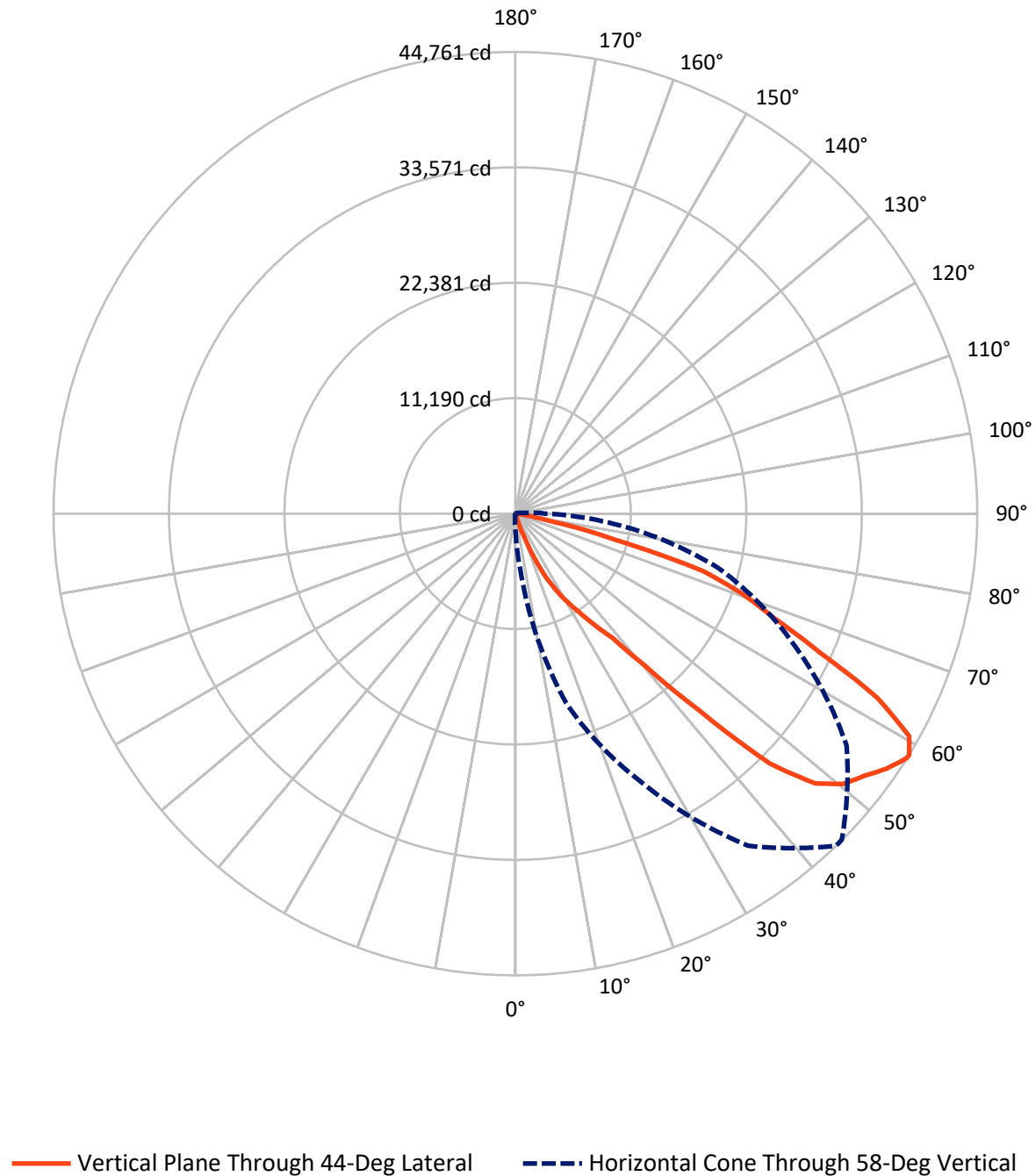
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 30.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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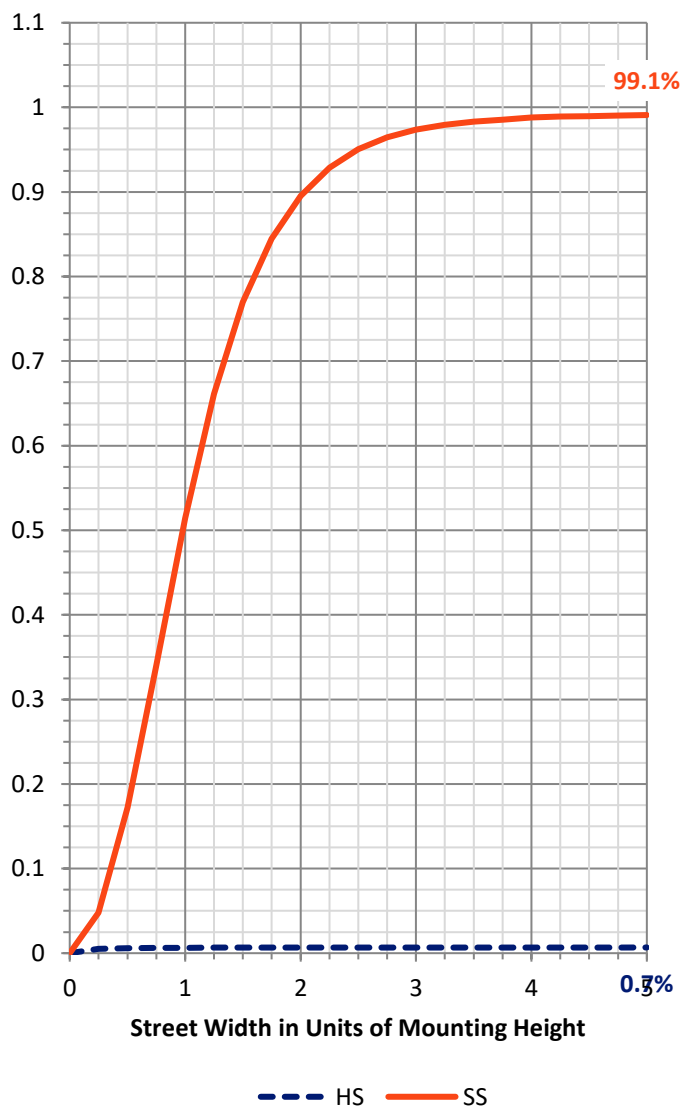
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	119.1	0.0	119.1
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	17329.0	0.0	17329.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	17448.2	0.0	17448.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.8	0.0
10°-20°	38.3	0.2
20°-30°	413.3	2.4
30°-40°	1222.4	7.0
40°-50°	3643.5	20.9
50°-60°	5781.3	33.1
60°-70°	4822.3	27.6
70°-80°	1487.3	8.5
80°-90°	33.0	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°	17448.2	100.0
0°-180°	17448.2	100.0

Coefficient of Utilization



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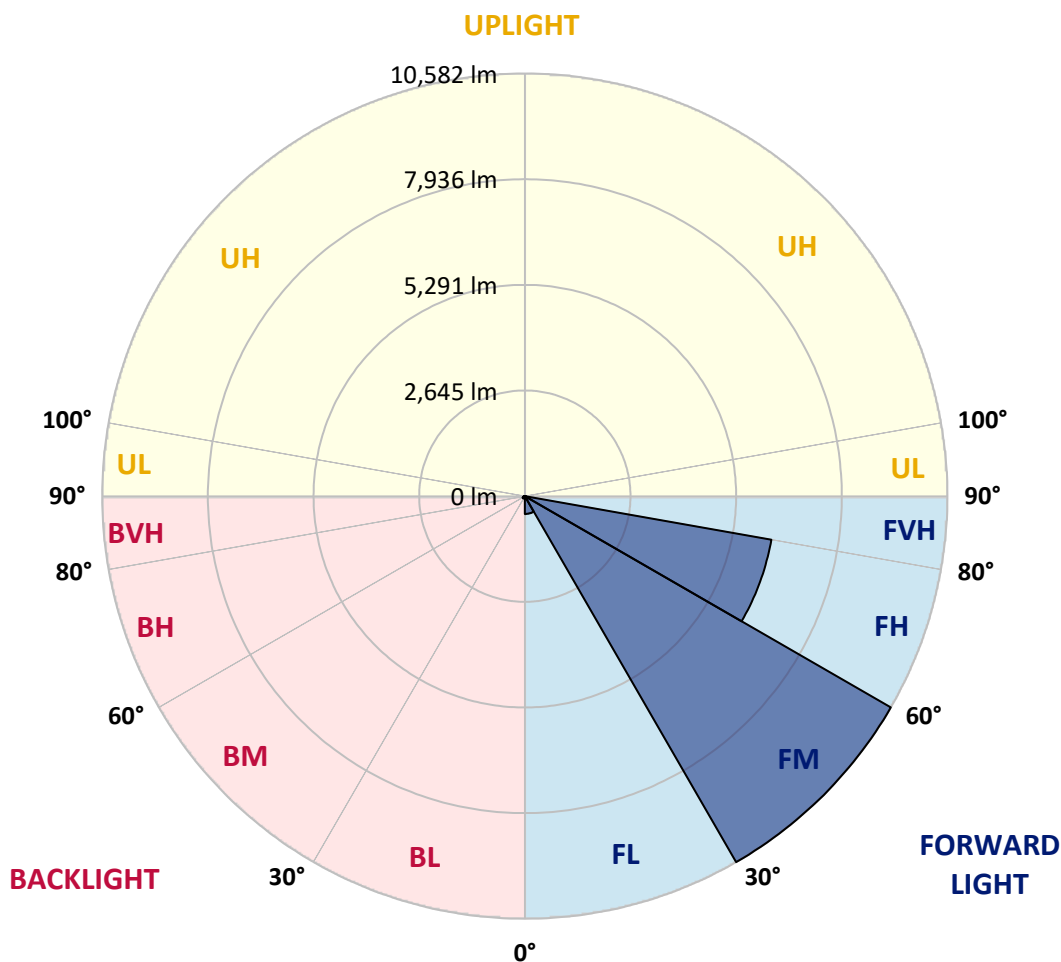
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	446.8	2.6			
FM	(30°-60°)	10581.9	60.6			
FH	(60°-80°)	6268.9	35.9			G3/7500
FVH	(80°-90°)	31.4	0.2			G1/100
BL	(0°-30°)	11.7	0.1	B0/110		
BM	(30°-60°)	65.2	0.4	B0/220		
BH	(60°-80°)	40.7	0.2	B0/110		G0/110
BVH	(80°-90°)	1.6	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
2.5°	98.9	98.9	94.9	89.6	84.4	79.1	77.8	75.1	73.8	72.5
5°	102.8	102.8	101.5	97.5	92.3	88.3	88.3	84.4	81.7	79.1
7.5°	105.4	106.8	109.4	108.1	105.4	101.5	101.5	98.9	94.9	88.3
10°	109.4	113.4	118.6	121.3	122.6	122.6	121.3	119.9	113.4	104.1
12.5°	113.4	121.3	134.4	147.6	155.5	166.1	164.8	162.1	145.0	125.2
15°	121.3	133.1	160.8	199.0	258.3	295.2	309.7	296.6	239.9	168.7
17.5°	130.5	150.3	233.3	416.5	682.8	809.3	885.7	823.8	545.7	320.3
20°	139.7	183.2	433.6	1079.5	1771.5	2185.3	2300.0	2120.8	1361.6	610.3
22.5°	155.5	257.0	879.1	2231.5	3817.1	4437.9	4555.2	3981.9	2571.5	1204.7
25°	188.5	373.0	1515.8	3636.5	5696.7	6744.5	6695.7	5944.5	4171.7	1924.4
27.5°	235.9	543.0	2292.1	5166.8	7497.1	8421.1	8531.8	7602.6	5560.9	2829.9
30°	304.5	752.6	3125.1	6392.6	8940.4	9939.5	9957.9	8997.1	6803.8	3624.7
32.5°	370.4	950.3	3854.0	7577.5	10362.6	11457.9	11539.6	10357.3	7731.7	4452.4
35°	420.5	1079.5	4592.1	8618.8	11796.6	13305.8	13300.5	11896.8	8831.0	5191.8
37.5°	424.4	1208.7	5260.4	9683.8	13612.9	15302.7	15470.1	13922.7	10159.6	6106.6
40°	415.2	1353.6	6106.6	11344.5	16885.7	19478.3	19625.9	17675.2	12824.7	7672.4
42.5°	425.7	1605.4	7480.0	14411.7	22320.0	26043.5	26328.2	24277.3	17724.0	10867.4
45°	481.1	2078.6	10357.3	19542.9	30066.3	34605.7	34510.8	31557.0	23424.6	15731.0
47.5°	664.3	3237.2	14622.6	24537.0	35016.9	39059.4	39141.1	35530.9	26751.3	19470.4
50°	1021.5	4953.3	18206.4	27177.1	37145.6	41201.2	41124.8	36953.1	28015.4	21311.7
52.5°	1328.6	6194.9	20004.2	28103.7	37418.4	42259.6	42254.4	37327.5	28211.8	21469.9
55°	1405.1	6288.5	20018.7	28153.8	38030.0	43644.9	43818.9	38248.8	28466.1	20779.2
57.5°	1374.7	5567.5	19183.0	28443.7	39118.7	44716.5	44725.7	39141.1	29112.0	20356.1
58°	1348.4	5454.1	19014.3	28608.5	39305.9	44761.3	44738.9	39182.0	29637.9	20340.3
60°	1200.8	4735.8	18356.6	29029.0	39027.8	43841.3	43631.7	38289.6	29560.1	20178.2
62.5°	943.7	3694.5	17709.5	28542.6	36046.3	39387.6	39474.6	33899.2	26947.7	19233.1
65°	751.3	2753.4	16359.8	25036.5	29682.7	32345.2	32669.4	27565.9	22492.7	16285.9
67.5°	598.4	1990.3	13723.6	19933.0	23487.8	26995.2	27231.1	23143.8	17426.1	12478.1
70°	486.4	1345.7	9472.9	14577.7	19372.8	23316.5	23331.0	19226.5	13006.6	8175.9
72.5°	431.0	931.9	5498.9	10631.5	15708.6	18999.8	18616.3	15601.9	9996.2	4842.6
75°	373.0	618.2	2696.8	6499.4	9524.3	9588.9	9735.2	7237.5	4996.8	2302.7
77.5°	307.1	438.9	1062.4	1775.4	2856.2	3656.3	3792.1	2873.4	1662.1	566.8
80°	210.9	208.3	286.0	544.4	817.2	1024.1	955.6	739.4	435.0	217.5
82.5°	90.9	98.9	129.2	155.5	126.5	122.6	117.3	75.1	58.0	44.8
85°	29.0	26.4	27.7	27.7	22.4	17.1	17.1	7.9	0.0	0.0
87.5°	14.5	11.9	11.9	10.5	6.6	2.6	1.3	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
76.4	0°	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
71.2	2.5°	69.9	69.9	67.2	64.6	63.3	60.6	59.3	58.0	56.7	55.4
76.4	5°	73.8	72.5	68.5	64.6	60.6	56.7	54.0	51.4	48.8	47.5
84.4	7.5°	80.4	77.8	69.9	63.3	58.0	52.7	50.1	46.1	43.5	39.5
93.6	10°	88.3	83.0	72.5	64.6	56.7	50.1	46.1	42.2	38.2	33.0
106.8	12.5°	98.9	89.6	76.4	63.3	54.0	46.1	42.2	36.9	33.0	29.0
123.9	15°	108.1	96.2	77.8	63.3	51.4	42.2	36.9	31.6	27.7	22.4
155.5	17.5°	121.3	101.5	76.4	59.3	47.5	36.9	31.6	27.7	21.1	13.2
230.7	20°	143.7	105.4	73.8	55.4	40.9	30.3	23.7	18.5	9.2	2.6
346.6	22.5°	179.3	116.0	71.2	50.1	35.6	23.7	15.8	6.6	0.0	0.0
527.2	25°	247.8	134.4	71.2	47.5	31.6	17.1	5.3	0.0	0.0	0.0
748.7	27.5°	329.5	159.5	71.2	40.9	25.0	9.2	0.0	0.0	0.0	0.0
1020.2	30°	412.6	187.2	71.2	35.6	19.8	1.3	0.0	0.0	0.0	0.0
1256.1	32.5°	491.6	210.9	72.5	30.3	13.2	0.0	0.0	0.0	0.0	0.0
1583.0	35°	572.0	214.8	71.2	26.4	7.9	0.0	0.0	0.0	0.0	0.0
1983.7	37.5°	674.8	206.9	67.2	23.7	4.0	0.0	0.0	0.0	0.0	0.0
2609.8	40°	830.4	210.9	63.3	22.4	1.3	0.0	0.0	0.0	0.0	0.0
3726.2	42.5°	1117.7	228.0	58.0	22.4	0.0	0.0	0.0	0.0	0.0	0.0
5935.2	45°	1932.3	305.8	52.7	23.7	0.0	0.0	0.0	0.0	0.0	0.0
8910.1	47.5°	3196.3	549.6	51.4	23.7	0.0	0.0	0.0	0.0	0.0	0.0
10733.0	50°	4079.4	692.0	54.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0
10961.0	52.5°	4072.8	771.1	56.7	26.4	5.3	0.0	0.0	0.0	0.0	0.0
10102.9	55°	3620.7	785.6	60.6	29.0	17.1	0.0	0.0	0.0	0.0	0.0
8682.1	57.5°	3026.3	717.0	69.9	35.6	31.6	0.0	0.0	0.0	0.0	0.0
8459.3	58°	2920.8	685.4	72.5	36.9	34.3	0.0	0.0	0.0	0.0	0.0
7337.6	60°	2393.6	558.9	92.3	46.1	46.1	0.0	0.0	0.0	0.0	0.0
6015.6	62.5°	1652.8	487.7	105.4	59.3	47.5	0.0	0.0	0.0	0.0	0.0
4435.3	65°	1169.1	440.2	114.7	63.3	38.2	0.0	0.0	0.0	0.0	0.0
3151.5	67.5°	873.9	406.0	126.5	64.6	19.8	0.0	0.0	0.0	0.0	0.0
1977.1	70°	669.6	380.9	155.5	68.5	5.3	0.0	0.0	0.0	0.0	0.0
1178.3	72.5°	545.7	351.9	188.5	71.2	0.0	0.0	0.0	0.0	0.0	0.0
706.5	75°	452.1	317.7	181.9	77.8	0.0	0.0	0.0	0.0	0.0	0.0
377.0	77.5°	300.5	246.5	166.1	77.8	0.0	0.0	0.0	0.0	0.0	0.0
134.4	80°	105.4	97.5	129.2	68.5	0.0	0.0	0.0	0.0	0.0	0.0
27.7	82.5°	15.8	13.2	18.5	23.7	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°
76.4	0°	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
54.0	2.5°	54.0	54.0	52.7	54.0	54.0	56.7	63.3	72.5	83.0	87.0
46.1	5°	44.8	43.5	42.2	42.2	42.2	46.1	51.4	61.9	73.8	79.1
38.2	7.5°	36.9	35.6	34.3	33.0	33.0	35.6	42.2	54.0	65.9	71.2
31.6	10°	30.3	27.7	26.4	25.0	25.0	27.7	34.3	46.1	59.3	64.6
26.4	12.5°	25.0	21.1	18.5	17.1	15.8	19.8	26.4	36.9	51.4	58.0
19.8	15°	17.1	13.2	9.2	7.9	6.6	10.5	17.1	29.0	43.5	51.4
10.5	17.5°	9.2	4.0	1.3	0.0	0.0	2.6	7.9	21.1	35.6	42.2
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5	26.4	33.0
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	15.8	22.4
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	11.9
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
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	4.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	10.5
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°
76.4	0°	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
90.9	2.5°	93.6	92.3	89.6	87.0	87.0	87.0	90.9	94.9	98.9	98.9
81.7	5°	87.0	87.0	85.7	83.0	83.0	84.4	89.6	96.2	101.5	102.8
75.1	7.5°	80.4	83.0	80.4	79.1	80.4	81.7	87.0	94.9	102.8	105.4
69.9	10°	76.4	77.8	77.8	76.4	76.4	79.1	84.4	94.9	105.4	109.4
63.3	12.5°	71.2	73.8	72.5	72.5	72.5	75.1	81.7	93.6	108.1	113.4
56.7	15°	65.9	69.9	69.9	68.5	68.5	69.9	79.1	92.3	112.0	121.3
48.8	17.5°	60.6	64.6	65.9	63.3	63.3	65.9	75.1	92.3	114.7	130.5
39.5	20°	50.1	56.7	60.6	56.7	56.7	59.3	68.5	87.0	116.0	139.7
29.0	22.5°	39.5	46.1	51.4	50.1	50.1	51.4	63.3	83.0	117.3	155.5
17.1	25°	29.0	35.6	39.5	42.2	42.2	46.1	58.0	80.4	122.6	188.5
7.9	27.5°	17.1	25.0	30.3	33.0	34.3	39.5	54.0	77.8	131.8	235.9
0.0	30°	7.9	14.5	21.1	26.4	26.4	35.6	50.1	75.1	143.7	304.5
0.0	32.5°	0.0	6.6	10.5	18.5	19.8	29.0	46.1	72.5	160.8	370.4
0.0	35°	0.0	0.0	5.3	14.5	14.5	23.7	42.2	69.9	187.2	420.5
0.0	37.5°	0.0	0.0	0.0	10.5	11.9	21.1	40.9	68.5	192.4	424.4
0.0	40°	0.0	0.0	0.0	7.9	9.2	19.8	40.9	69.9	174.0	415.2
0.0	42.5°	0.0	0.0	0.0	5.3	6.6	19.8	40.9	72.5	156.8	425.7
0.0	45°	0.0	0.0	0.0	4.0	5.3	21.1	39.5	71.2	147.6	481.1
0.0	47.5°	0.0	0.0	0.0	5.3	7.9	21.1	38.2	69.9	148.9	664.3
0.0	50°	0.0	0.0	0.0	6.6	9.2	21.1	39.5	67.2	163.4	1021.5
0.0	52.5°	0.0	0.0	0.0	5.3	7.9	23.7	43.5	65.9	177.9	1328.6
0.0	55°	0.0	0.0	0.0	1.3	4.0	30.3	47.5	65.9	200.3	1405.1
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	34.3	54.0	69.9	237.3	1374.7
0.0	58°	0.0	0.0	0.0	0.0	0.0	34.3	55.4	69.9	239.9	1348.4
0.0	60°	0.0	0.0	0.0	0.0	0.0	34.3	60.6	77.8	258.3	1200.8
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	29.0	72.5	97.5	268.9	943.7
0.0	65°	0.0	0.0	0.0	0.0	0.0	23.7	85.7	106.8	276.8	751.3
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	22.4	88.3	108.1	280.7	598.4
0.0	70°	0.0	0.0	0.0	0.0	0.0	23.7	87.0	116.0	293.9	486.4
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	26.4	79.1	127.9	293.9	431.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	27.7	73.8	143.7	267.6	373.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	26.4	72.5	167.4	238.6	307.1
0.0	80°	2.6	4.0	4.0	2.6	2.6	22.4	71.2	170.0	203.0	210.9
1.3	82.5°	7.9	10.5	9.2	6.6	6.6	19.8	63.3	142.4	105.4	90.9
7.9	85°	14.5	17.1	17.1	14.5	14.5	18.5	39.5	51.4	35.6	29.0
14.5	87.5°	19.8	22.4	22.4	19.8	19.8	18.5	17.1	15.8	14.5	14.5
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: SP1-2407-184-14

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-930-U-5WQ

Data in this report applies to families of products including GSS-SB1A-930-U-5WQ

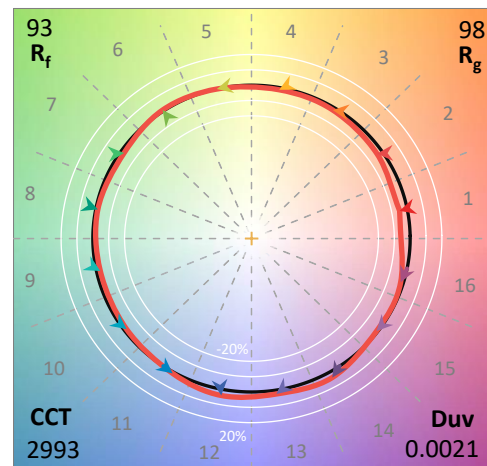
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-14
 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-930-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 2993
 CIE u' : 0.2501
 CIE v' : 0.5245
 Duv: 0.0021
 CIE x: 0.4406
 CIE y: 0.4107
 CIE z: 0.1487
 Peak Wavelength (nm): 621
 Dominant Wavelength (nm): 582
 Purity: 55.53327
 R_f: 92.6
 R_g: 98.5

CRI (Ra): 92.4
 R1: 92.2
 R2: 95.2
 R3: 97.0
 R4: 93.1
 R5: 91.7
 R6: 94.2
 R7: 93.3
 R8: 82.3
 R9: 58.2
 R10: 87.7
 R11: 93.5
 R12: 81.7
 R13: 92.9
 R14: 97.6
 R15: 88.1



Test Conditions

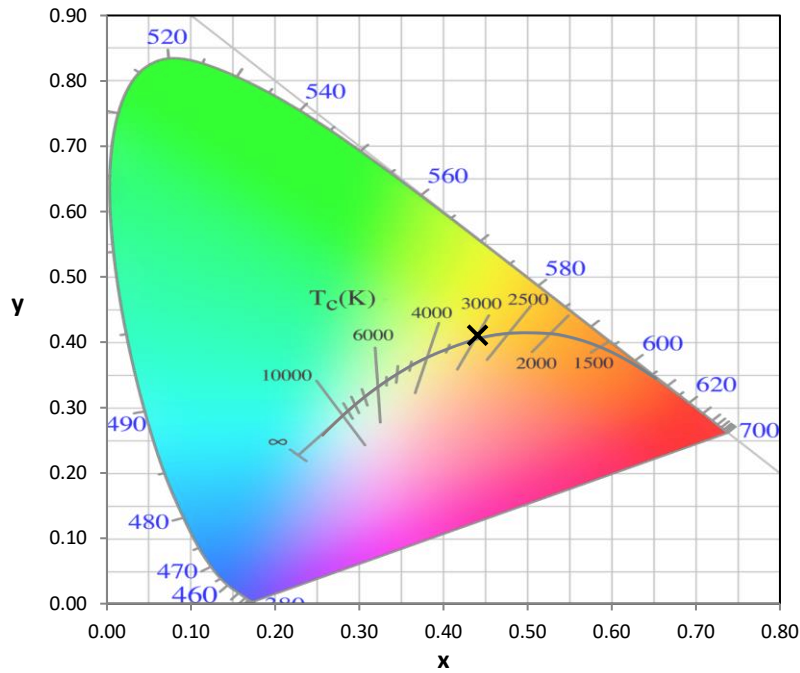
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-14

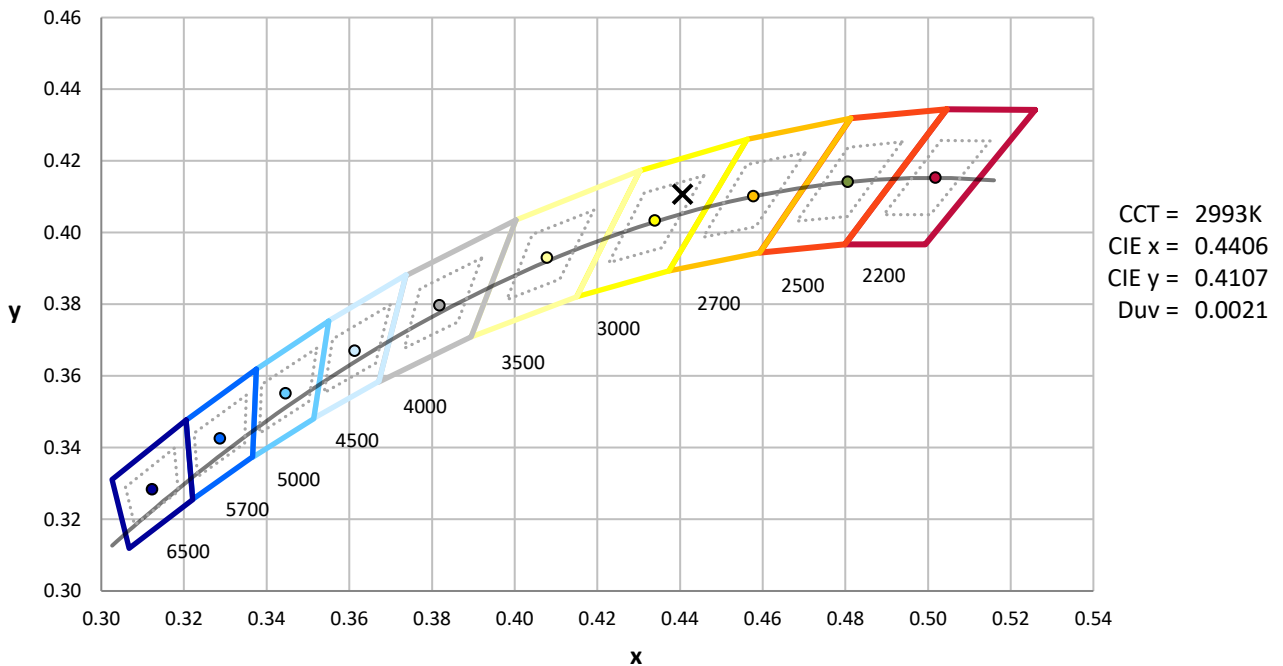
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



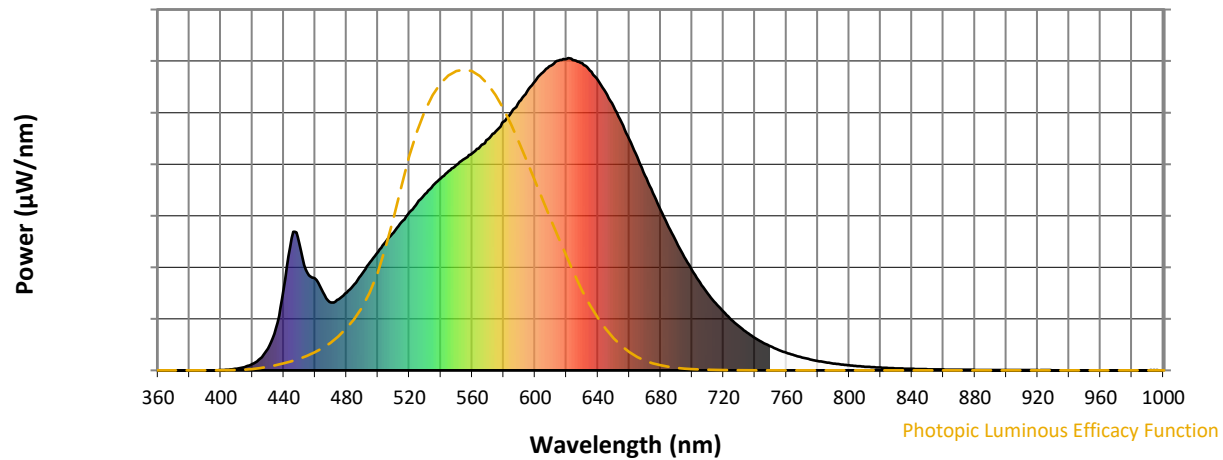
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-14

Photopic Flux vs. Wavelength

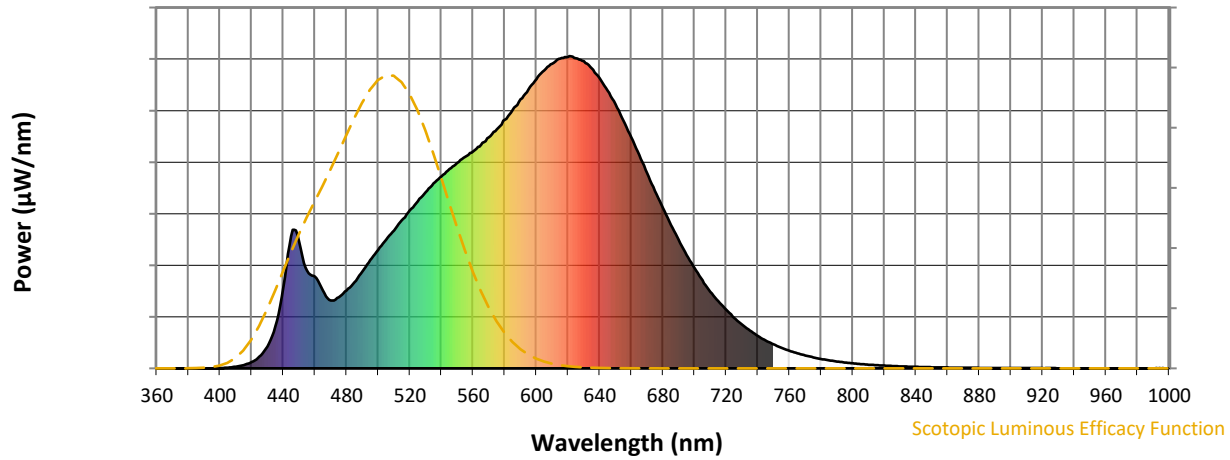


Photopic Lumens: NR

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	310	NR	620	998	NR	750	77	NR	880	2	NR
365	0	NR	495	347	NR	625	993	NR	755	66	NR	885	1	NR
370	0	NR	500	379	NR	630	983	NR	760	56	NR	890	1	NR
375	0	NR	505	412	NR	635	960	NR	765	48	NR	895	1	NR
380	0	NR	510	442	NR	640	930	NR	770	41	NR	900	1	NR
385	0	NR	515	475	NR	645	889	NR	775	35	NR	905	1	NR
390	0	NR	520	506	NR	650	846	NR	780	30	NR	910	1	NR
395	0	NR	525	535	NR	655	794	NR	785	26	NR	915	1	NR
400	1	NR	530	565	NR	660	740	NR	790	22	NR	920	1	NR
405	2	NR	535	592	NR	665	684	NR	795	19	NR	925	1	NR
410	6	NR	540	615	NR	670	624	NR	800	16	NR	930	0	NR
415	10	NR	545	638	NR	675	567	NR	805	14	NR	935	0	NR
420	20	NR	550	658	NR	680	513	NR	810	12	NR	940	0	NR
425	38	NR	555	678	NR	685	459	NR	815	10	NR	945	0	NR
430	70	NR	560	695	NR	690	412	NR	820	9	NR	950	0	NR
435	136	NR	565	716	NR	695	363	NR	825	8	NR	955	0	NR
440	262	NR	570	740	NR	700	320	NR	830	7	NR	960	0	NR
445	424	NR	575	765	NR	705	281	NR	835	6	NR	965	0	NR
450	406	NR	580	796	NR	710	245	NR	840	5	NR	970	0	NR
455	313	NR	585	827	NR	715	215	NR	845	4	NR	975	0	NR
460	294	NR	590	861	NR	720	188	NR	850	4	NR	980	0	NR
465	250	NR	595	894	NR	725	162	NR	855	3	NR	985	0	NR
470	217	NR	600	927	NR	730	140	NR	860	3	NR	990	0	NR
475	228	NR	605	954	NR	735	121	NR	865	2	NR	995	0	NR
480	249	NR	610	976	NR	740	104	NR	870	2	NR	1000	0	NR
485	276	NR	615	992	NR	745	89	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-14

Scotopic Flux vs. Wavelength



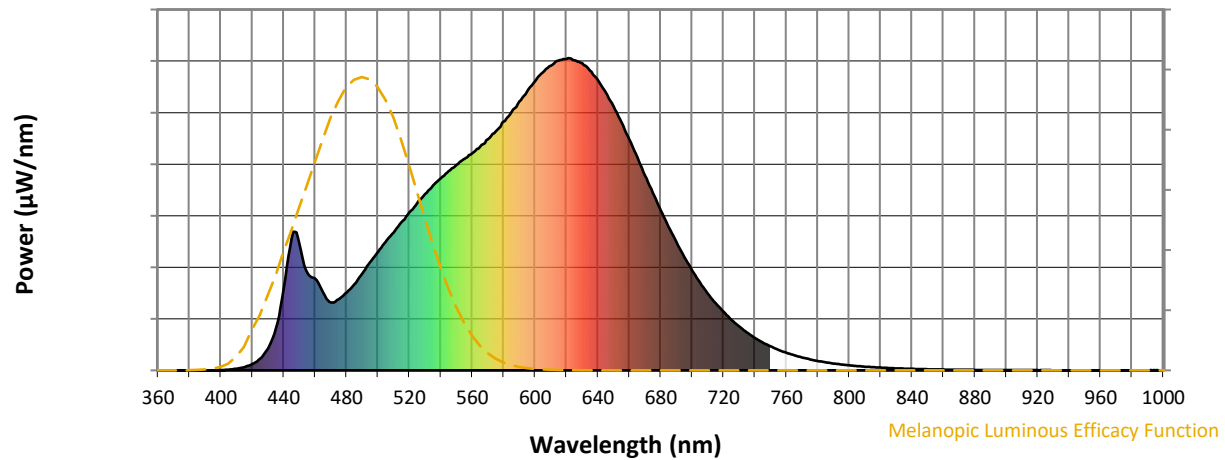
Scotopic Lumens: NR

S/P: 1.39

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	310	NR	620	998	NR	750	77	NR	880	2	NR
365	0	NR	495	347	NR	625	993	NR	755	66	NR	885	1	NR
370	0	NR	500	379	NR	630	983	NR	760	56	NR	890	1	NR
375	0	NR	505	412	NR	635	960	NR	765	48	NR	895	1	NR
380	0	NR	510	442	NR	640	930	NR	770	41	NR	900	1	NR
385	0	NR	515	475	NR	645	889	NR	775	35	NR	905	1	NR
390	0	NR	520	506	NR	650	846	NR	780	30	NR	910	1	NR
395	0	NR	525	535	NR	655	794	NR	785	26	NR	915	1	NR
400	1	NR	530	565	NR	660	740	NR	790	22	NR	920	1	NR
405	2	NR	535	592	NR	665	684	NR	795	19	NR	925	1	NR
410	6	NR	540	615	NR	670	624	NR	800	16	NR	930	0	NR
415	10	NR	545	638	NR	675	567	NR	805	14	NR	935	0	NR
420	20	NR	550	658	NR	680	513	NR	810	12	NR	940	0	NR
425	38	NR	555	678	NR	685	459	NR	815	10	NR	945	0	NR
430	70	NR	560	695	NR	690	412	NR	820	9	NR	950	0	NR
435	136	NR	565	716	NR	695	363	NR	825	8	NR	955	0	NR
440	262	NR	570	740	NR	700	320	NR	830	7	NR	960	0	NR
445	424	NR	575	765	NR	705	281	NR	835	6	NR	965	0	NR
450	406	NR	580	796	NR	710	245	NR	840	5	NR	970	0	NR
455	313	NR	585	827	NR	715	215	NR	845	4	NR	975	0	NR
460	294	NR	590	861	NR	720	188	NR	850	4	NR	980	0	NR
465	250	NR	595	894	NR	725	162	NR	855	3	NR	985	0	NR
470	217	NR	600	927	NR	730	140	NR	860	3	NR	990	0	NR
475	228	NR	605	954	NR	735	121	NR	865	2	NR	995	0	NR
480	249	NR	610	976	NR	740	104	NR	870	2	NR	1000	0	NR
485	276	NR	615	992	NR	745	89	NR	875	2	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.69

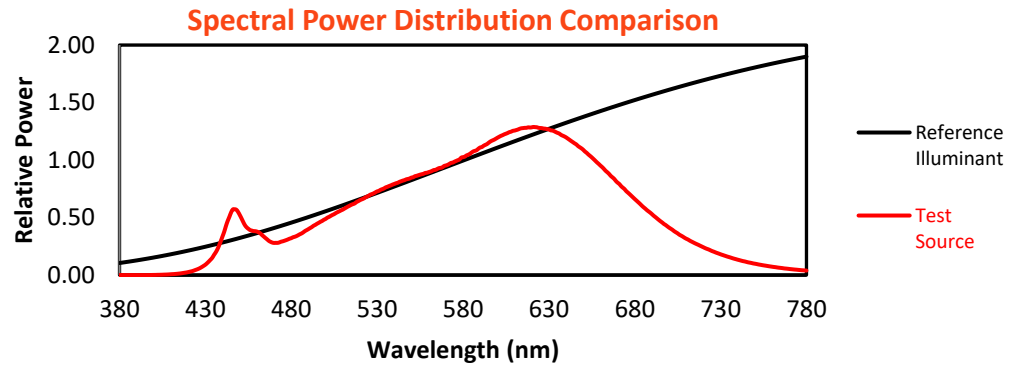
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	310	NR	620	998	NR	750	77	NR	880	2	NR
365	0	NR	495	347	NR	625	993	NR	755	66	NR	885	1	NR
370	0	NR	500	379	NR	630	983	NR	760	56	NR	890	1	NR
375	0	NR	505	412	NR	635	960	NR	765	48	NR	895	1	NR
380	0	NR	510	442	NR	640	930	NR	770	41	NR	900	1	NR
385	0	NR	515	475	NR	645	889	NR	775	35	NR	905	1	NR
390	0	NR	520	506	NR	650	846	NR	780	30	NR	910	1	NR
395	0	NR	525	535	NR	655	794	NR	785	26	NR	915	1	NR
400	1	NR	530	565	NR	660	740	NR	790	22	NR	920	1	NR
405	2	NR	535	592	NR	665	684	NR	795	19	NR	925	1	NR
410	6	NR	540	615	NR	670	624	NR	800	16	NR	930	0	NR
415	10	NR	545	638	NR	675	567	NR	805	14	NR	935	0	NR
420	20	NR	550	658	NR	680	513	NR	810	12	NR	940	0	NR
425	38	NR	555	678	NR	685	459	NR	815	10	NR	945	0	NR
430	70	NR	560	695	NR	690	412	NR	820	9	NR	950	0	NR
435	136	NR	565	716	NR	695	363	NR	825	8	NR	955	0	NR
440	262	NR	570	740	NR	700	320	NR	830	7	NR	960	0	NR
445	424	NR	575	765	NR	705	281	NR	835	6	NR	965	0	NR
450	406	NR	580	796	NR	710	245	NR	840	5	NR	970	0	NR
455	313	NR	585	827	NR	715	215	NR	845	4	NR	975	0	NR
460	294	NR	590	861	NR	720	188	NR	850	4	NR	980	0	NR
465	250	NR	595	894	NR	725	162	NR	855	3	NR	985	0	NR
470	217	NR	600	927	NR	730	140	NR	860	3	NR	990	0	NR
475	228	NR	605	954	NR	735	121	NR	865	2	NR	995	0	NR
480	249	NR	610	976	NR	740	104	NR	870	2	NR	1000	0	NR
485	276	NR	615	992	NR	745	89	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-14

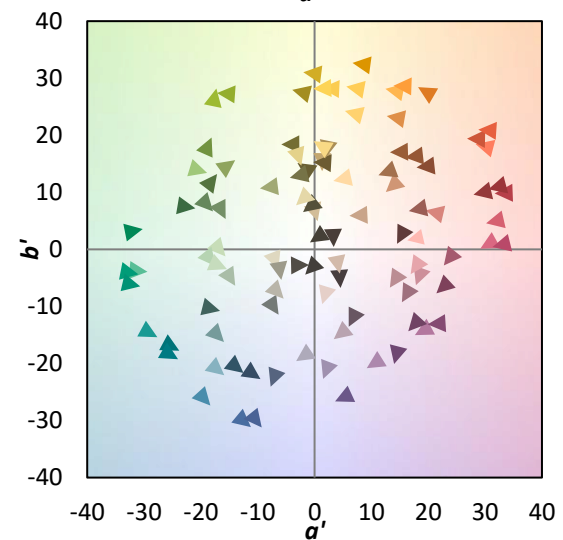
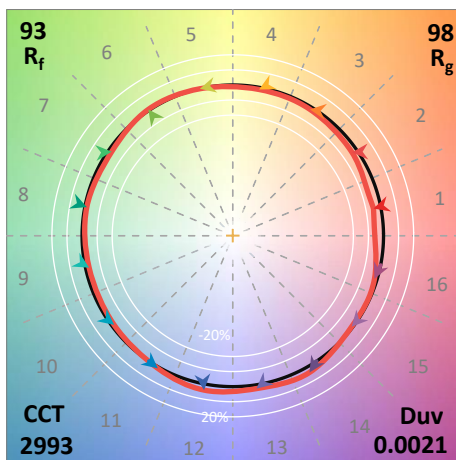
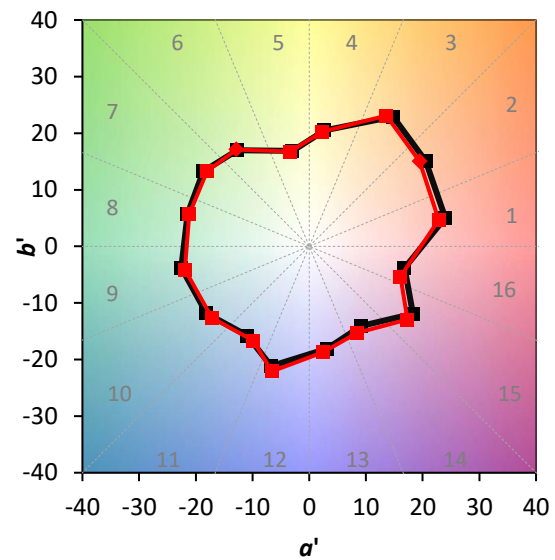
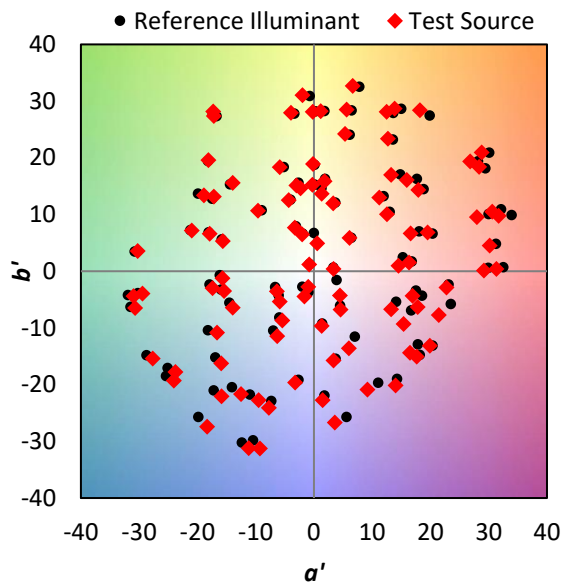
TM-30-18

Summary

$R_f = 92.6$
 $R_g = 98.5$
 $CIE R_a = 92.4$
 $R_9 = 58.2$

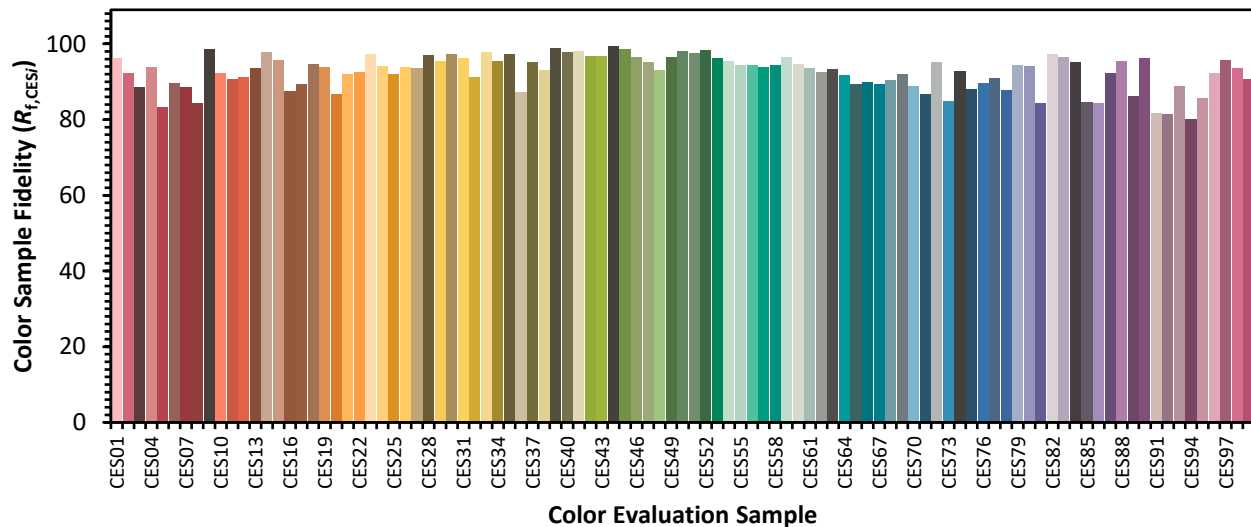


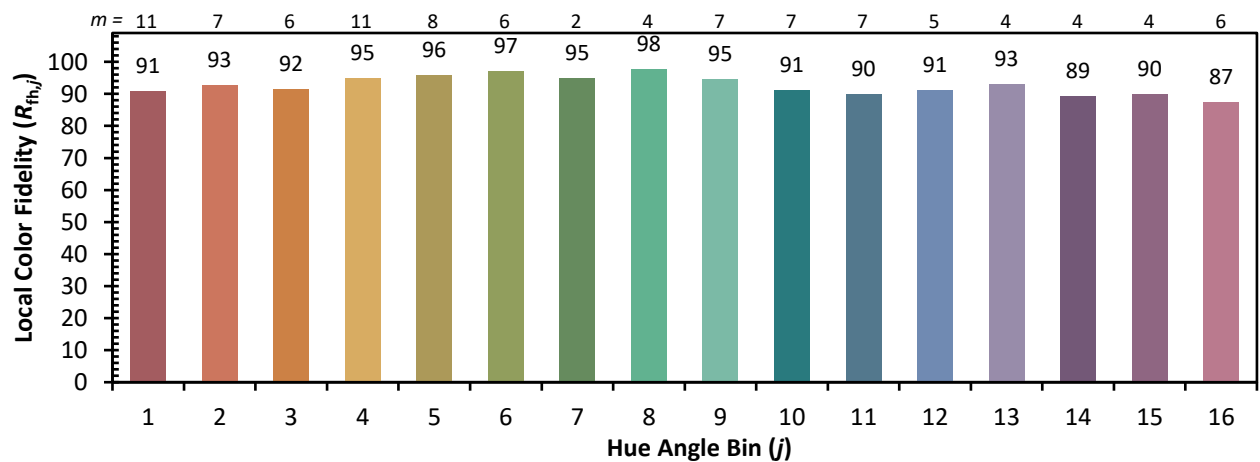
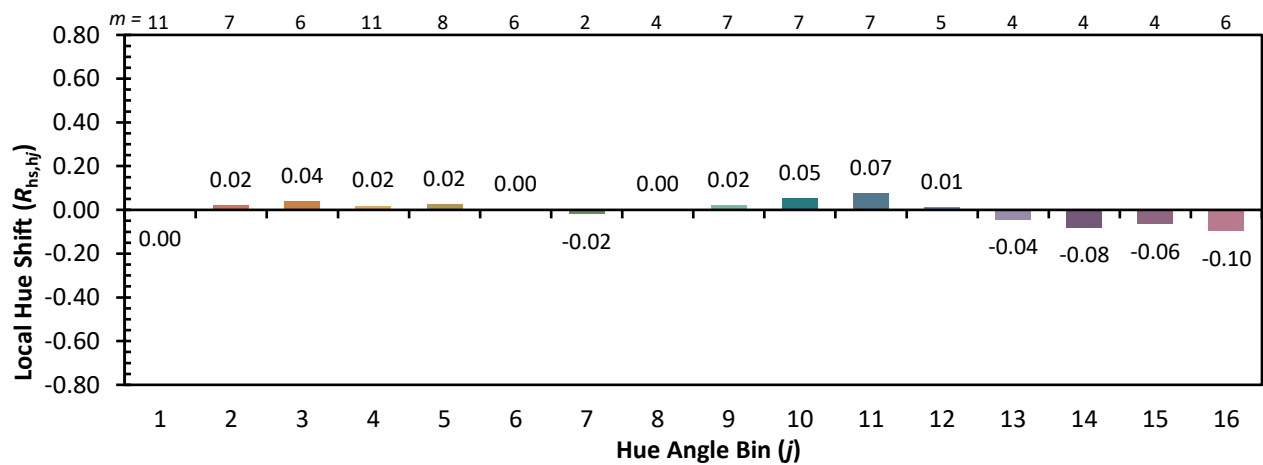
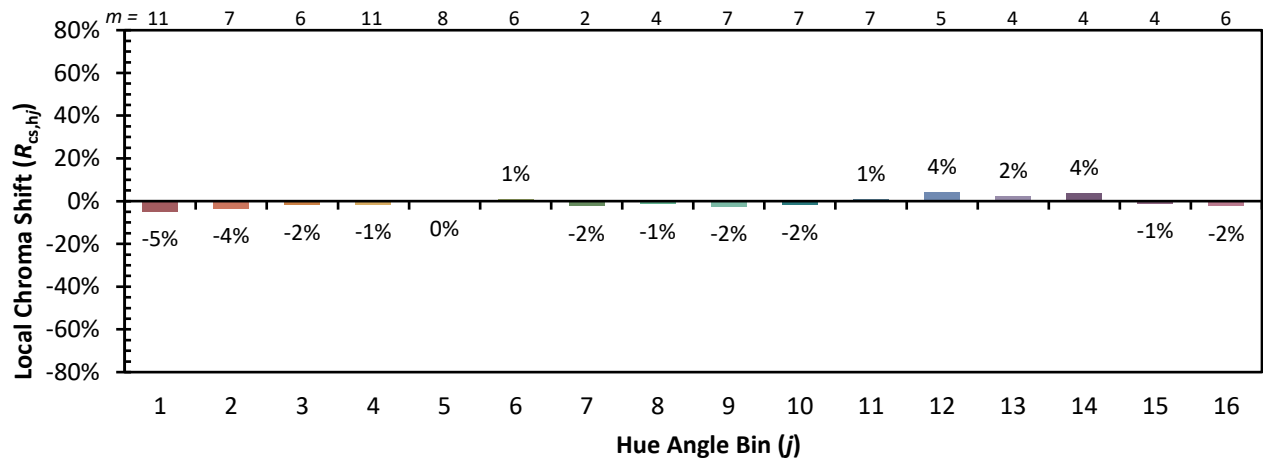
Color Vector Graphics



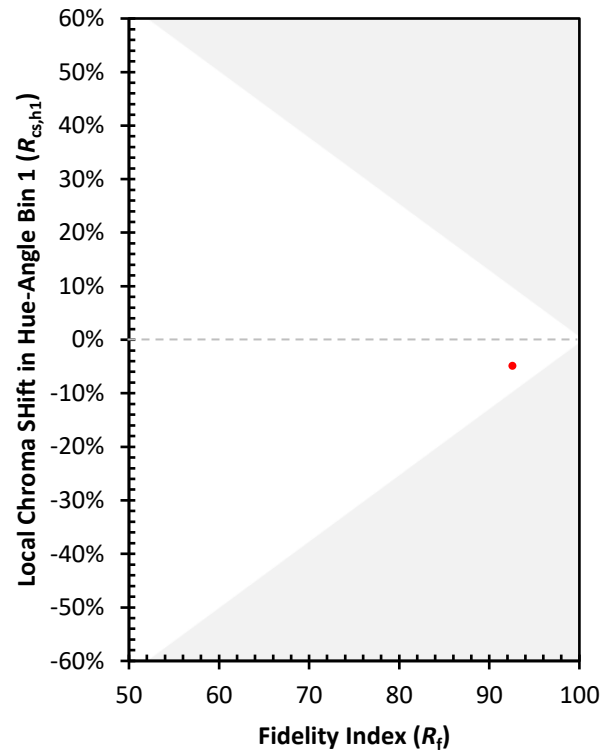
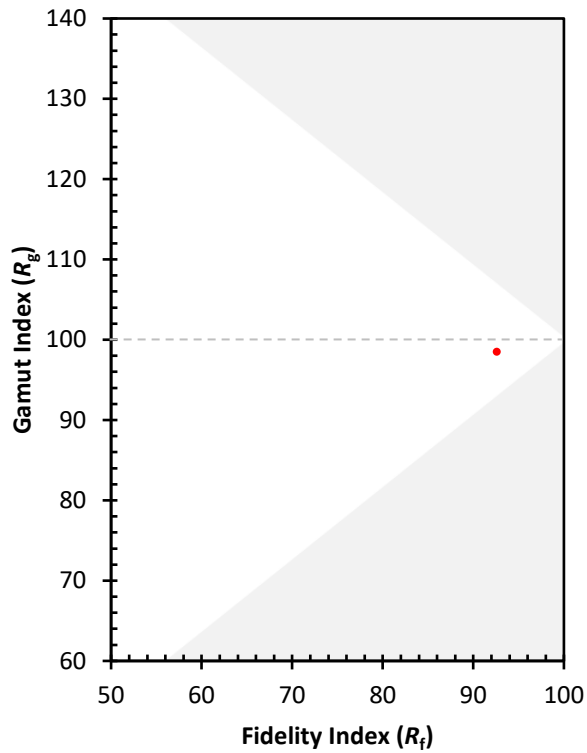
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 94	CES51 = 98	CES76 = 90
CES02 = 63	CES27 = 94	CES52 = 98	CES77 = 91
CES03 = 32	CES28 = 97	CES53 = 96	CES78 = 88
CES04 = 70	CES29 = 95	CES54 = 95	CES79 = 94
CES05 = 51	CES30 = 97	CES55 = 94	CES80 = 94
CES06 = 51	CES31 = 96	CES56 = 94	CES81 = 84
CES07 = 43	CES32 = 91	CES57 = 94	CES82 = 97
CES08 = 42	CES33 = 98	CES58 = 94	CES83 = 97
CES09 = 29	CES34 = 96	CES59 = 97	CES84 = 95
CES10 = 76	CES35 = 97	CES60 = 95	CES85 = 85
CES11 = 59	CES36 = 87	CES61 = 94	CES86 = 84
CES12 = 65	CES37 = 95	CES62 = 92	CES87 = 92
CES13 = 44	CES38 = 93	CES63 = 93	CES88 = 95
CES14 = 74	CES39 = 99	CES64 = 92	CES89 = 86
CES15 = 72	CES40 = 98	CES65 = 89	CES90 = 96
CES16 = 48	CES41 = 98	CES66 = 90	CES91 = 82
CES17 = 50	CES42 = 97	CES67 = 89	CES92 = 81
CES18 = 57	CES43 = 97	CES68 = 90	CES93 = 89
CES19 = 72	CES44 = 99	CES69 = 92	CES94 = 80
CES20 = 67	CES45 = 99	CES70 = 89	CES95 = 86
CES21 = 86	CES46 = 96	CES71 = 87	CES96 = 92
CES22 = 79	CES47 = 95	CES72 = 95	CES97 = 96
CES23 = 92	CES48 = 93	CES73 = 85	CES98 = 94
CES24 = 91	CES49 = 97	CES74 = 93	CES99 = 91
CES25 = 72	CES50 = 98	CES75 = 88	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)