

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: P1050046

Luminaire Tested: **GALN-SA3B-950-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1050046
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-950-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 3xLight Square PACKAGE
90CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10141.5 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 106.2
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

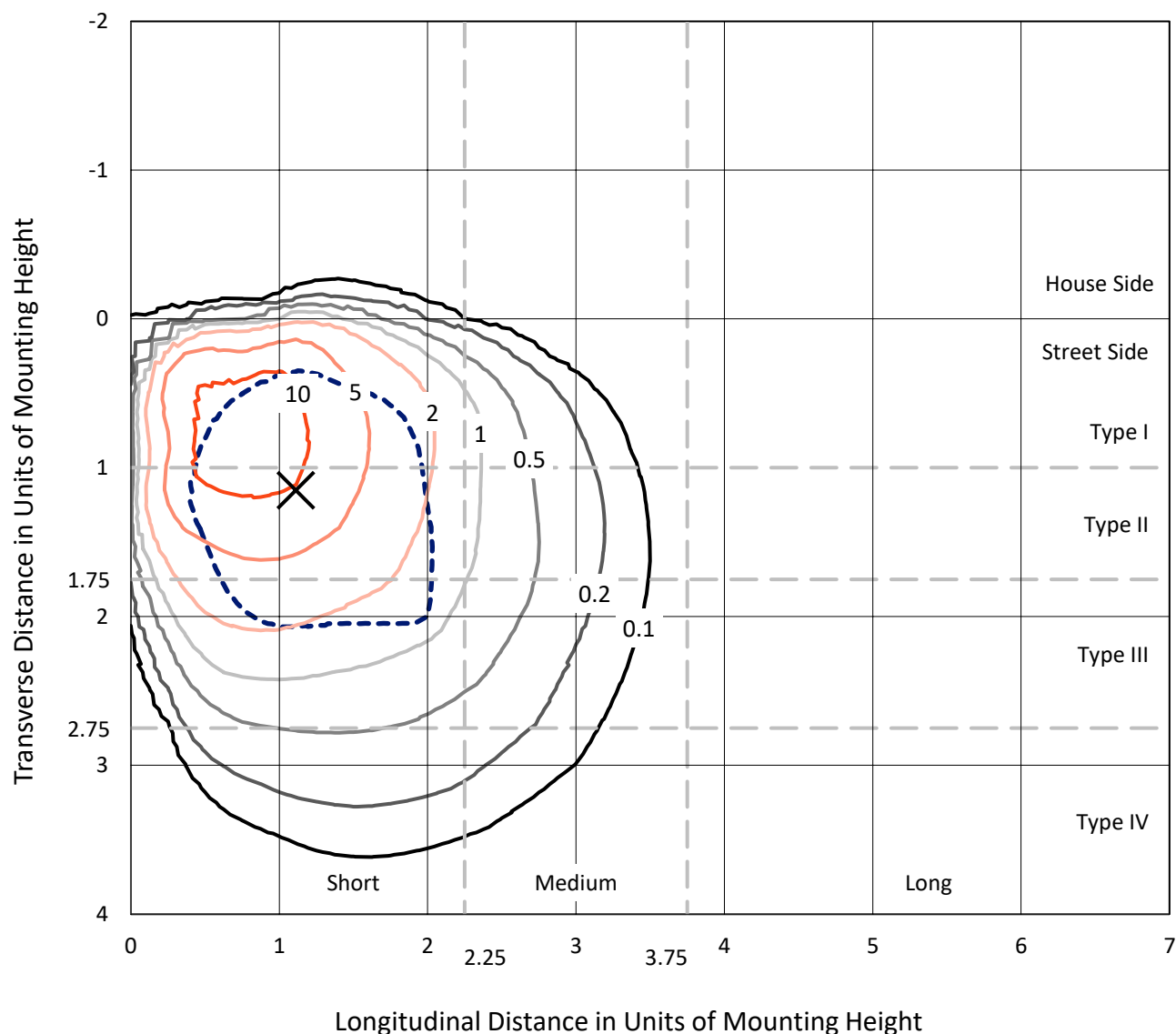
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

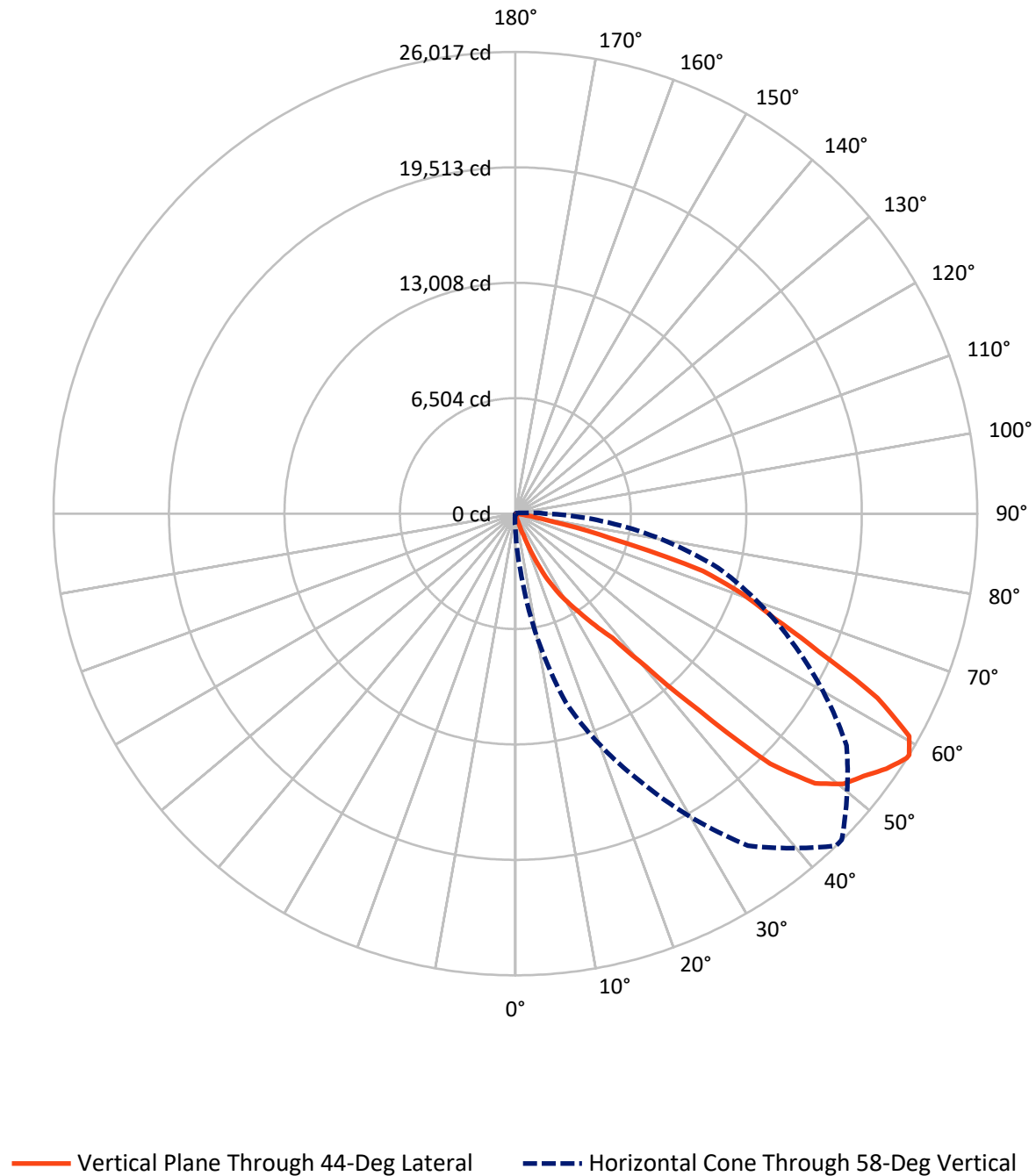


Based on 20 foot mounting height. Maximum calculated value = 17.7 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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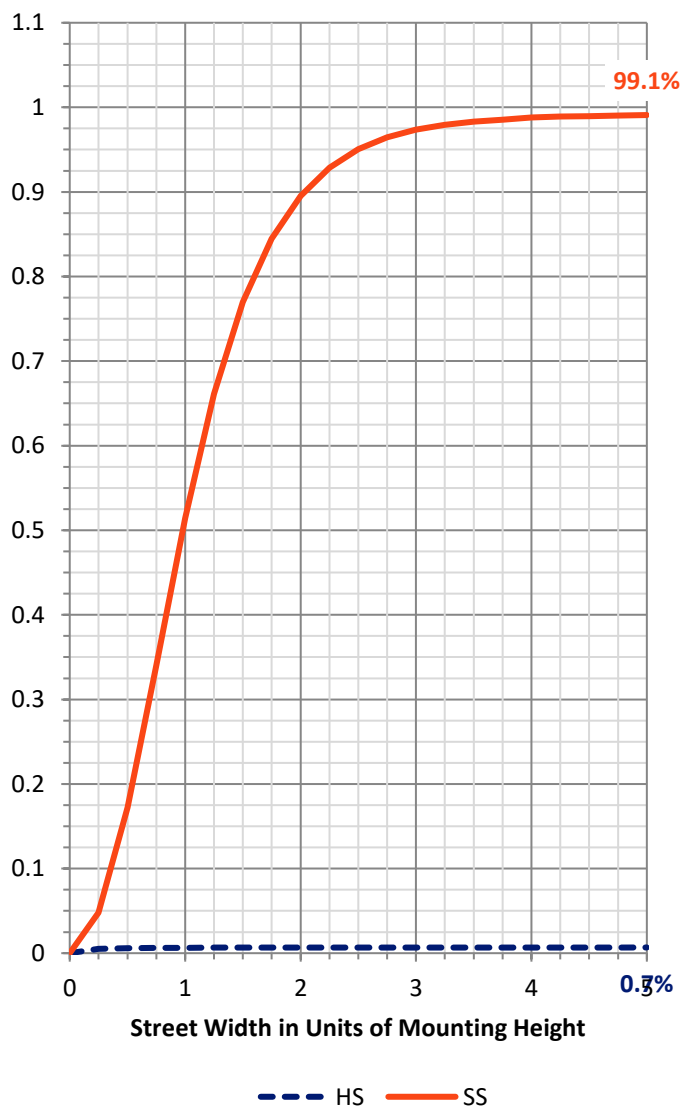
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	69.2	0.0	69.2
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	10072.2	0.0	10072.2
	% Fixture	99.3	0.0	99.3
Total	Lumens	10141.5	0.0	10141.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.0	0.0
10°-20°	22.2	0.2
20°-30°	240.3	2.4
30°-40°	710.5	7.0
40°-50°	2117.7	20.9
50°-60°	3360.3	33.1
60°-70°	2802.9	27.6
70°-80°	864.5	8.5
80°-90°	19.2	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°	10141.5	100.0
0°-180°	10141.5	100.0



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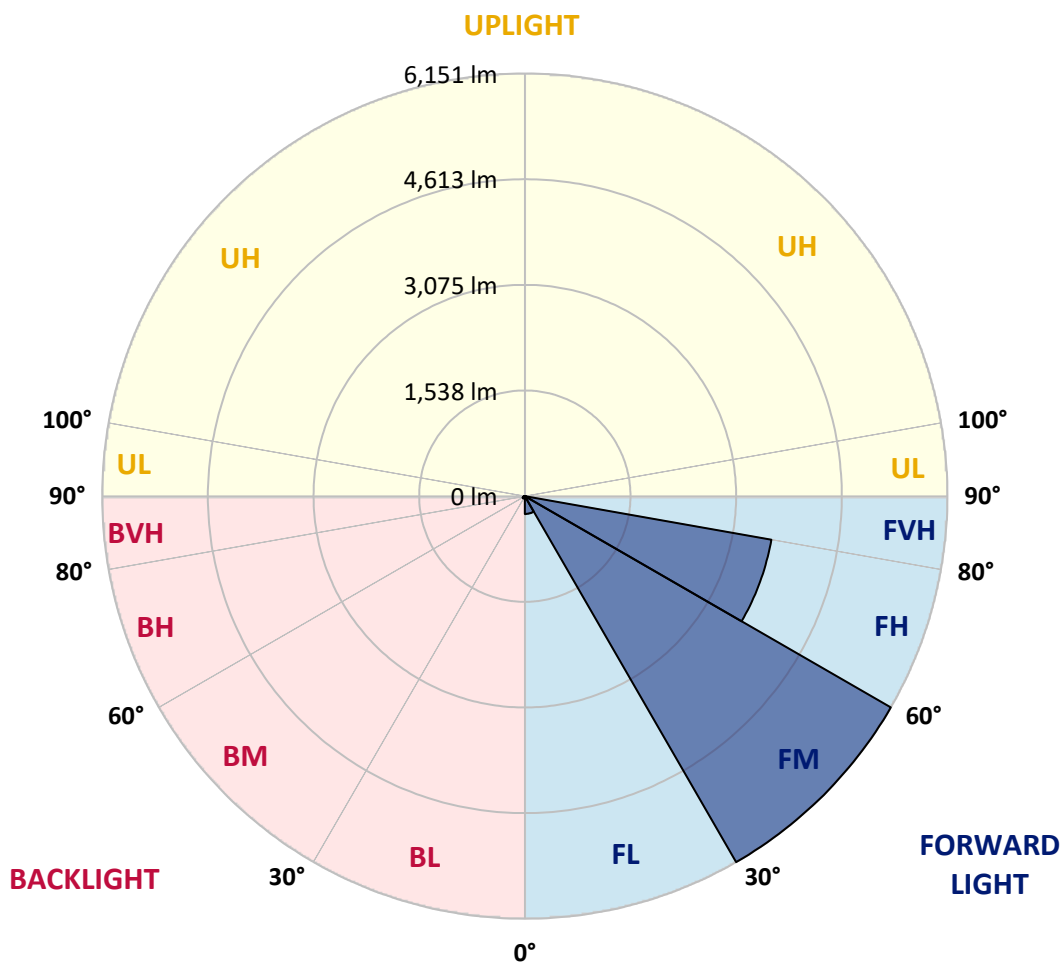
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	259.7	2.6			
FM	(30°-60°)	6150.6	60.6			
FH	(60°-80°)	3643.7	35.9			G2/5000
FVH	(80°-90°)	18.3	0.2			G1/100
BL	(0°-30°)	6.8	0.1	B0/110		
BM	(30°-60°)	37.9	0.4	B0/220		
BH	(60°-80°)	23.6	0.2	B0/110		G0/110
BVH	(80°-90°)	0.9	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°	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2.5°	57.5	57.5	55.2	52.1	49.0	46.0	45.2	43.7	42.9	42.1
5°	59.8	59.8	59.0	56.7	53.6	51.3	51.3	49.0	47.5	46.0
7.5°	61.3	62.1	63.6	62.8	61.3	59.0	59.0	57.5	55.2	51.3
10°	63.6	65.9	68.9	70.5	71.2	71.2	70.5	69.7	65.9	60.5
12.5°	65.9	70.5	78.1	85.8	90.4	96.5	95.8	94.2	84.3	72.8
15°	70.5	77.4	93.5	115.7	150.2	171.6	180.0	172.4	139.4	98.1
17.5°	75.8	87.3	135.6	242.1	396.8	470.4	514.8	478.8	317.2	186.2
20°	81.2	106.5	252.0	627.4	1029.6	1270.2	1336.8	1232.7	791.4	354.7
22.5°	90.4	149.4	511.0	1297.0	2218.6	2579.5	2647.6	2314.4	1494.7	700.2
25°	109.6	216.8	881.0	2113.7	3311.1	3920.1	3891.8	3455.1	2424.7	1118.5
27.5°	137.1	315.6	1332.3	3003.1	4357.6	4894.6	4959.0	4418.9	3232.2	1644.8
30°	177.0	437.4	1816.4	3715.6	5196.5	5777.2	5787.9	5229.4	3954.6	2106.8
32.5°	215.3	552.4	2240.1	4404.3	6023.1	6659.7	6707.2	6020.0	4494.0	2587.9
35°	244.4	627.4	2669.1	5009.5	6856.6	7733.8	7730.7	6914.8	5132.9	3017.7
37.5°	246.7	702.5	3057.5	5628.5	7912.3	8894.4	8991.7	8092.3	5905.1	3549.3
40°	241.3	786.8	3549.3	6593.8	9814.5	11321.5	11407.3	10273.4	7454.2	4459.5
42.5°	247.5	933.1	4347.6	8376.6	12973.2	15137.4	15302.9	14110.8	10301.8	6316.5
45°	279.6	1208.1	6020.0	11359.0	17475.5	20114.0	20058.8	18342.0	13615.2	9143.4
47.5°	386.1	1881.5	8499.1	14261.8	20353.0	22702.7	22750.2	20651.8	15548.8	11316.9
50°	593.7	2879.0	10582.2	15796.3	21590.3	23947.6	23903.1	21478.4	16283.5	12387.1
52.5°	772.2	3600.7	11627.1	16334.8	21748.9	24562.8	24559.7	21696.0	16397.6	12479.0
55°	816.7	3655.1	11635.6	16363.9	22104.3	25367.9	25469.1	22231.5	16545.5	12077.6
57.5°	799.0	3236.0	11149.8	16532.5	22737.1	25990.8	25996.1	22750.2	16920.9	11831.7
58°	783.7	3170.1	11051.8	16628.2	22845.9	26016.8	26003.8	22773.9	17226.6	11822.5
60°	697.9	2752.6	10669.5	16872.6	22684.3	25482.1	25360.3	22255.3	17181.4	11728.3
62.5°	548.5	2147.4	10293.3	16589.9	20951.4	22893.4	22944.0	19703.4	15663.0	11179.0
65°	436.7	1600.4	9508.9	14552.1	17252.6	18800.1	18988.6	16022.3	13073.5	9466.0
67.5°	347.8	1156.8	7976.7	11585.8	13651.9	15690.5	15827.7	13452.0	10128.6	7252.7
70°	282.7	782.2	5506.0	8473.1	11260.2	13552.3	13560.8	11175.1	7559.9	4752.1
72.5°	250.5	541.6	3196.2	6179.4	9130.4	11043.4	10820.4	9068.3	5810.1	2814.7
75°	216.8	359.3	1567.4	3777.6	5535.9	5573.4	5658.4	4206.7	2904.3	1338.4
77.5°	178.5	255.1	617.5	1031.9	1660.1	2125.2	2204.1	1670.1	966.1	329.4
80°	122.6	121.0	166.2	316.4	475.0	595.3	555.4	429.8	252.8	126.4
82.5°	52.9	57.5	75.1	90.4	73.5	71.2	68.2	43.7	33.7	26.0
85°	16.9	15.3	16.1	16.1	13.0	10.0	10.0	4.6	0.0	0.0
87.5°	8.4	6.9	6.9	6.1	3.8	1.5	0.8	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°
44.4	0°	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
41.4	2.5°	40.6	40.6	39.1	37.5	36.8	35.2	34.5	33.7	32.9	32.2
44.4	5°	42.9	42.1	39.8	37.5	35.2	32.9	31.4	29.9	28.3	27.6
49.0	7.5°	46.7	45.2	40.6	36.8	33.7	30.6	29.1	26.8	25.3	23.0
54.4	10°	51.3	48.3	42.1	37.5	32.9	29.1	26.8	24.5	22.2	19.2
62.1	12.5°	57.5	52.1	44.4	36.8	31.4	26.8	24.5	21.5	19.2	16.9
72.0	15°	62.8	55.9	45.2	36.8	29.9	24.5	21.5	18.4	16.1	13.0
90.4	17.5°	70.5	59.0	44.4	34.5	27.6	21.5	18.4	16.1	12.3	7.7
134.1	20°	83.5	61.3	42.9	32.2	23.7	17.6	13.8	10.7	5.4	1.5
201.5	22.5°	104.2	67.4	41.4	29.1	20.7	13.8	9.2	3.8	0.0	0.0
306.4	25°	144.0	78.1	41.4	27.6	18.4	10.0	3.1	0.0	0.0	0.0
435.1	27.5°	191.5	92.7	41.4	23.7	14.6	5.4	0.0	0.0	0.0	0.0
593.0	30°	239.8	108.8	41.4	20.7	11.5	0.8	0.0	0.0	0.0	0.0
730.1	32.5°	285.8	122.6	42.1	17.6	7.7	0.0	0.0	0.0	0.0	0.0
920.1	35°	332.5	124.9	41.4	15.3	4.6	0.0	0.0	0.0	0.0	0.0
1153.0	37.5°	392.2	120.3	39.1	13.8	2.3	0.0	0.0	0.0	0.0	0.0
1516.9	40°	482.6	122.6	36.8	13.0	0.8	0.0	0.0	0.0	0.0	0.0
2165.8	42.5°	649.7	132.5	33.7	13.0	0.0	0.0	0.0	0.0	0.0	0.0
3449.8	45°	1123.1	177.7	30.6	13.8	0.0	0.0	0.0	0.0	0.0	0.0
5178.8	47.5°	1857.8	319.5	29.9	13.8	0.0	0.0	0.0	0.0	0.0	0.0
6238.4	50°	2371.1	402.2	31.4	14.6	0.0	0.0	0.0	0.0	0.0	0.0
6370.9	52.5°	2367.3	448.2	32.9	15.3	3.1	0.0	0.0	0.0	0.0	0.0
5872.2	55°	2104.5	456.6	35.2	16.9	10.0	0.0	0.0	0.0	0.0	0.0
5046.3	57.5°	1759.0	416.8	40.6	20.7	18.4	0.0	0.0	0.0	0.0	0.0
4916.8	58°	1697.7	398.4	42.1	21.5	19.9	0.0	0.0	0.0	0.0	0.0
4264.9	60°	1391.2	324.8	53.6	26.8	26.8	0.0	0.0	0.0	0.0	0.0
3496.5	62.5°	960.7	283.5	61.3	34.5	27.6	0.0	0.0	0.0	0.0	0.0
2577.9	65°	679.5	255.9	66.7	36.8	22.2	0.0	0.0	0.0	0.0	0.0
1831.7	67.5°	507.9	236.0	73.5	37.5	11.5	0.0	0.0	0.0	0.0	0.0
1149.2	70°	389.2	221.4	90.4	39.8	3.1	0.0	0.0	0.0	0.0	0.0
684.9	72.5°	317.2	204.5	109.6	41.4	0.0	0.0	0.0	0.0	0.0	0.0
410.6	75°	262.8	184.6	105.7	45.2	0.0	0.0	0.0	0.0	0.0	0.0
219.1	77.5°	174.7	143.3	96.5	45.2	0.0	0.0	0.0	0.0	0.0	0.0
78.1	80°	61.3	56.7	75.1	39.8	0.0	0.0	0.0	0.0	0.0	0.0
16.1	82.5°	9.2	7.7	10.7	13.8	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

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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
44.4	0°	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
31.4	2.5°	31.4	31.4	30.6	31.4	31.4	32.9	36.8	42.1	48.3	50.6
26.8	5°	26.0	25.3	24.5	24.5	24.5	26.8	29.9	36.0	42.9	46.0
22.2	7.5°	21.5	20.7	19.9	19.2	19.2	20.7	24.5	31.4	38.3	41.4
18.4	10°	17.6	16.1	15.3	14.6	14.6	16.1	19.9	26.8	34.5	37.5
15.3	12.5°	14.6	12.3	10.7	10.0	9.2	11.5	15.3	21.5	29.9	33.7
11.5	15°	10.0	7.7	5.4	4.6	3.8	6.1	10.0	16.9	25.3	29.9
6.1	17.5°	5.4	2.3	0.8	0.0	0.0	1.5	4.6	12.3	20.7	24.5
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	15.3	19.2
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	9.2	13.0
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	6.9
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
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	2.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	6.1
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°
44.4	0°	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
52.9	2.5°	54.4	53.6	52.1	50.6	50.6	50.6	52.9	55.2	57.5	57.5
47.5	5°	50.6	50.6	49.8	48.3	48.3	49.0	52.1	55.9	59.0	59.8
43.7	7.5°	46.7	48.3	46.7	46.0	46.7	47.5	50.6	55.2	59.8	61.3
40.6	10°	44.4	45.2	45.2	44.4	44.4	46.0	49.0	55.2	61.3	63.6
36.8	12.5°	41.4	42.9	42.1	42.1	42.1	43.7	47.5	54.4	62.8	65.9
32.9	15°	38.3	40.6	40.6	39.8	39.8	40.6	46.0	53.6	65.1	70.5
28.3	17.5°	35.2	37.5	38.3	36.8	36.8	38.3	43.7	53.6	66.7	75.8
23.0	20°	29.1	32.9	35.2	32.9	32.9	34.5	39.8	50.6	67.4	81.2
16.9	22.5°	23.0	26.8	29.9	29.1	29.1	29.9	36.8	48.3	68.2	90.4
10.0	25°	16.9	20.7	23.0	24.5	24.5	26.8	33.7	46.7	71.2	109.6
4.6	27.5°	10.0	14.6	17.6	19.2	19.9	23.0	31.4	45.2	76.6	137.1
0.0	30°	4.6	8.4	12.3	15.3	15.3	20.7	29.1	43.7	83.5	177.0
0.0	32.5°	0.0	3.8	6.1	10.7	11.5	16.9	26.8	42.1	93.5	215.3
0.0	35°	0.0	0.0	3.1	8.4	8.4	13.8	24.5	40.6	108.8	244.4
0.0	37.5°	0.0	0.0	0.0	6.1	6.9	12.3	23.7	39.8	111.9	246.7
0.0	40°	0.0	0.0	0.0	4.6	5.4	11.5	23.7	40.6	101.1	241.3
0.0	42.5°	0.0	0.0	0.0	3.1	3.8	11.5	23.7	42.1	91.2	247.5
0.0	45°	0.0	0.0	0.0	2.3	3.1	12.3	23.0	41.4	85.8	279.6
0.0	47.5°	0.0	0.0	0.0	3.1	4.6	12.3	22.2	40.6	86.6	386.1
0.0	50°	0.0	0.0	0.0	3.8	5.4	12.3	23.0	39.1	95.0	593.7
0.0	52.5°	0.0	0.0	0.0	3.1	4.6	13.8	25.3	38.3	103.4	772.2
0.0	55°	0.0	0.0	0.0	0.8	2.3	17.6	27.6	38.3	116.4	816.7
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	19.9	31.4	40.6	137.9	799.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	19.9	32.2	40.6	139.4	783.7
0.0	60°	0.0	0.0	0.0	0.0	0.0	19.9	35.2	45.2	150.2	697.9
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	16.9	42.1	56.7	156.3	548.5
0.0	65°	0.0	0.0	0.0	0.0	0.0	13.8	49.8	62.1	160.9	436.7
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	13.0	51.3	62.8	163.2	347.8
0.0	70°	0.0	0.0	0.0	0.0	0.0	13.8	50.6	67.4	170.8	282.7
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	15.3	46.0	74.3	170.8	250.5
0.0	75°	0.0	0.0	0.0	0.0	0.0	16.1	42.9	83.5	155.5	216.8
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	15.3	42.1	97.3	138.7	178.5
0.0	80°	1.5	2.3	2.3	1.5	1.5	13.0	41.4	98.8	118.0	122.6
0.8	82.5°	4.6	6.1	5.4	3.8	3.8	11.5	36.8	82.7	61.3	52.9
4.6	85°	8.4	10.0	10.0	8.4	8.4	10.7	23.0	29.9	20.7	16.9
8.4	87.5°	11.5	13.0	13.0	11.5	11.5	10.7	10.0	9.2	8.4	8.4
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

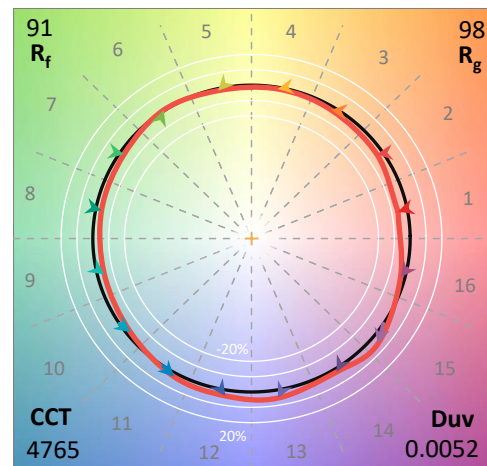
Test Information

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

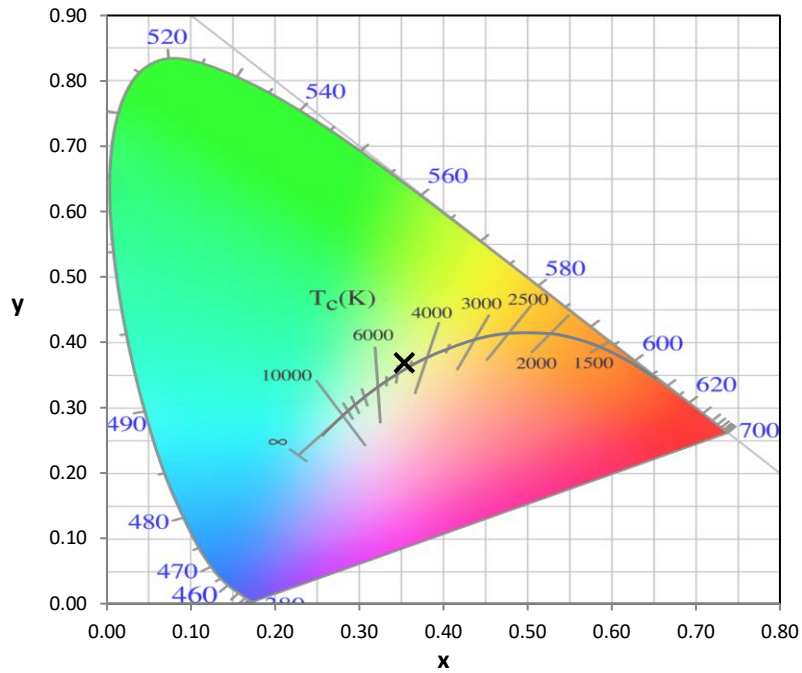
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-17

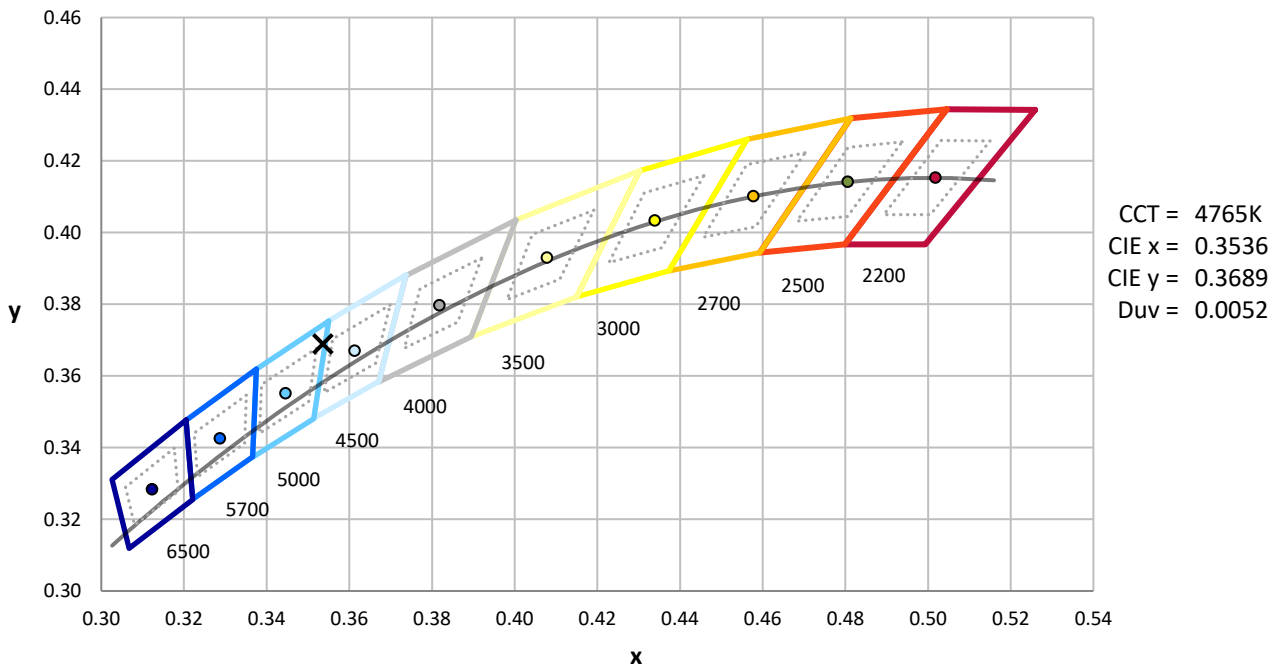
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



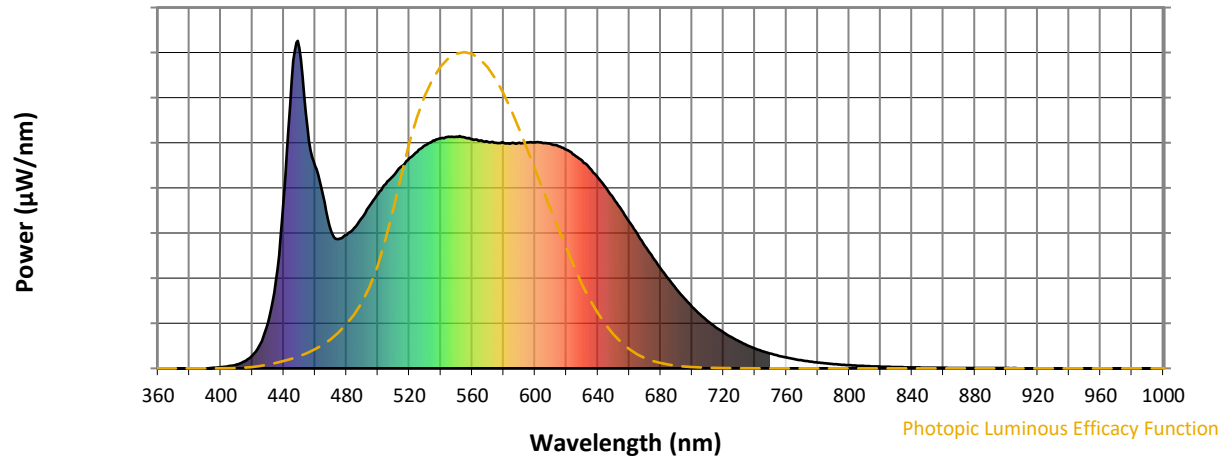
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-17

Photopic Flux vs. Wavelength

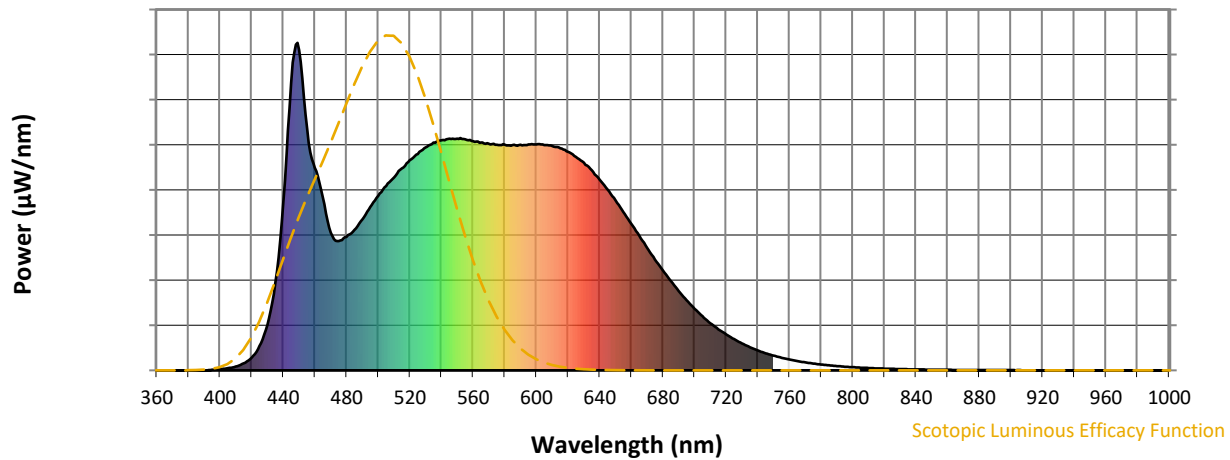


Photopic Lumens: NR

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	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



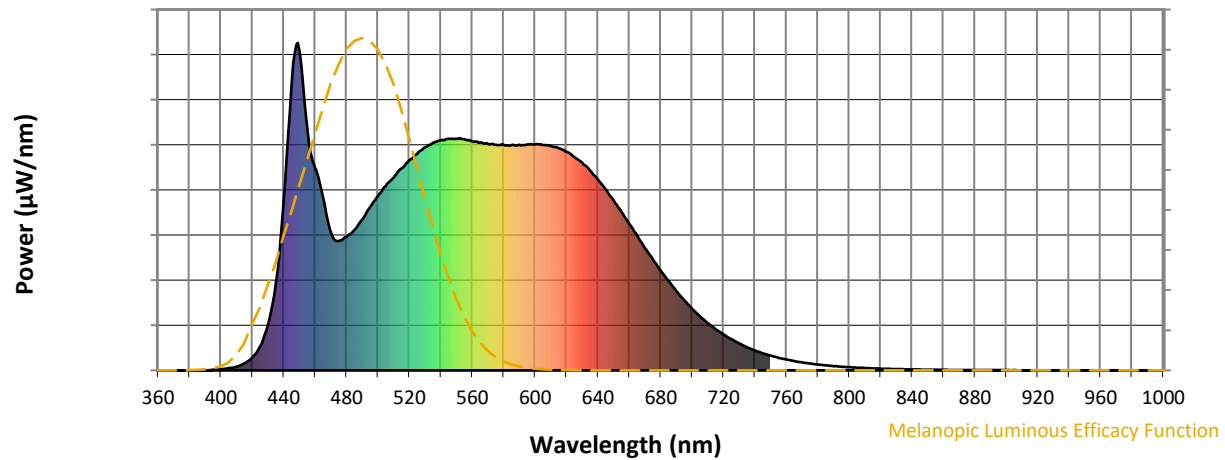
Scotopic Lumens: NR

S/P: 1.99

λ (nm)	Power 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			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 4.22

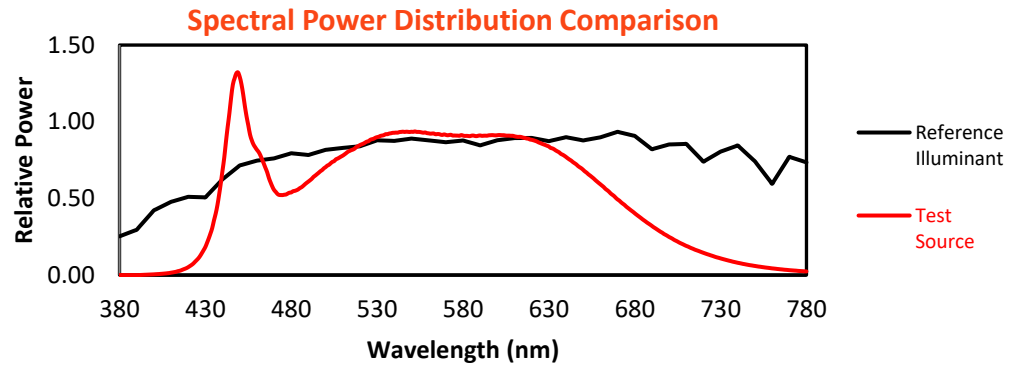
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	462	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			

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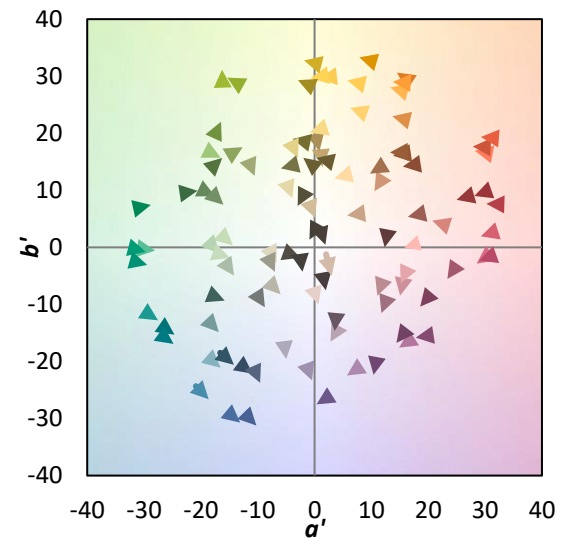
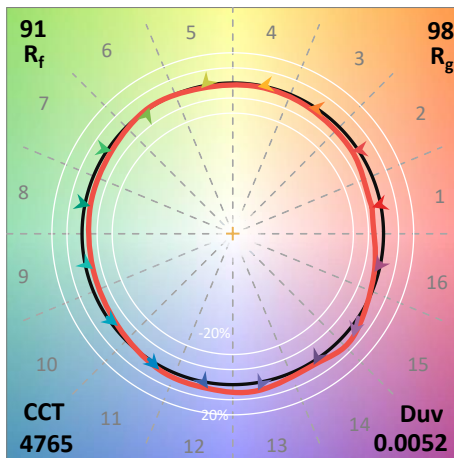
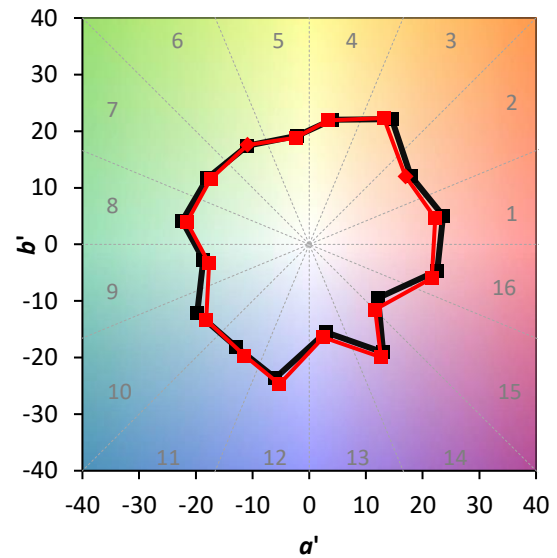
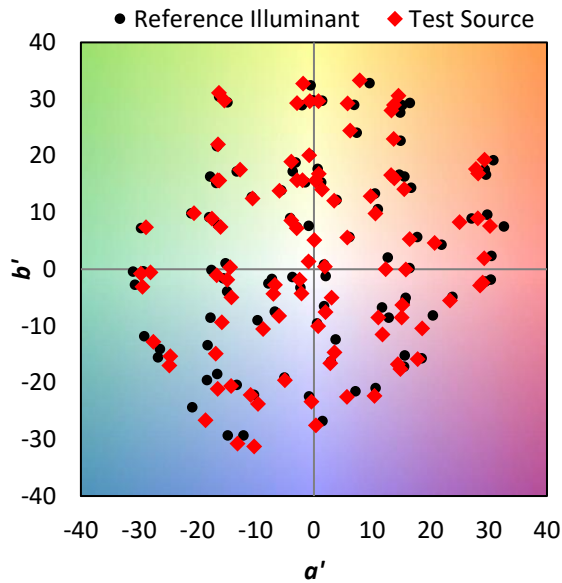
TM-30-18

Summary

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

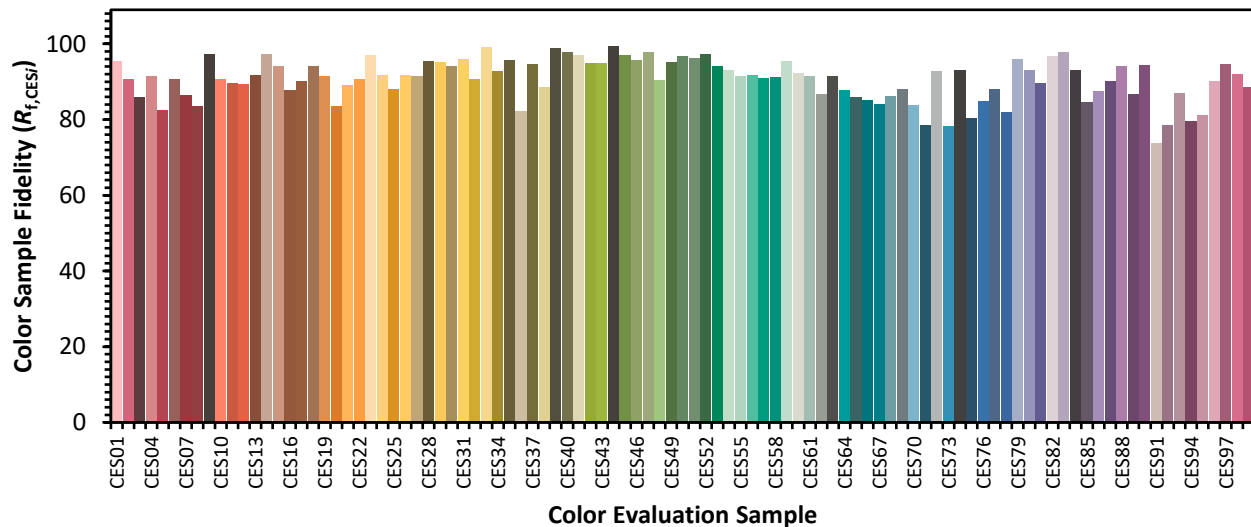


Color Vector Graphics

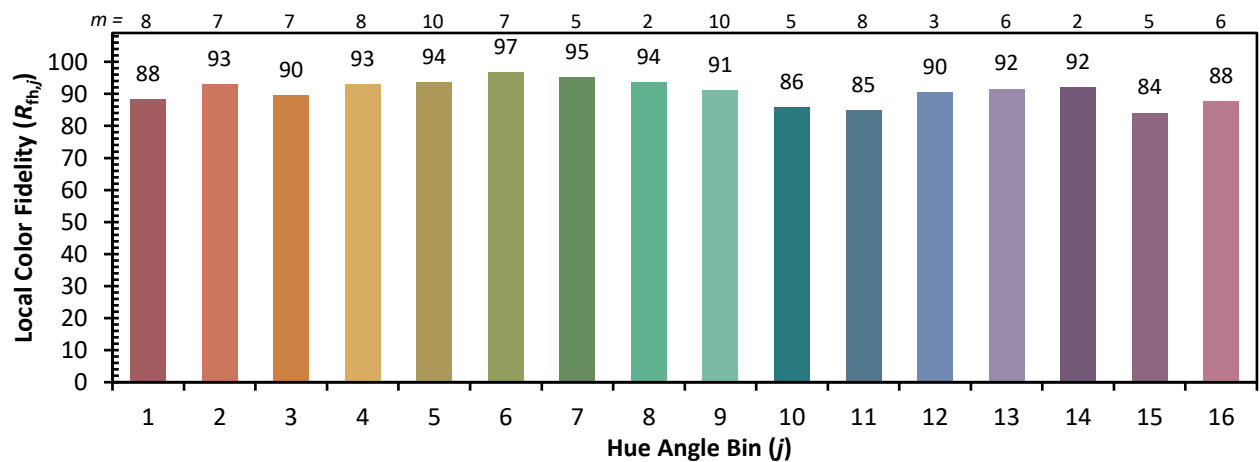
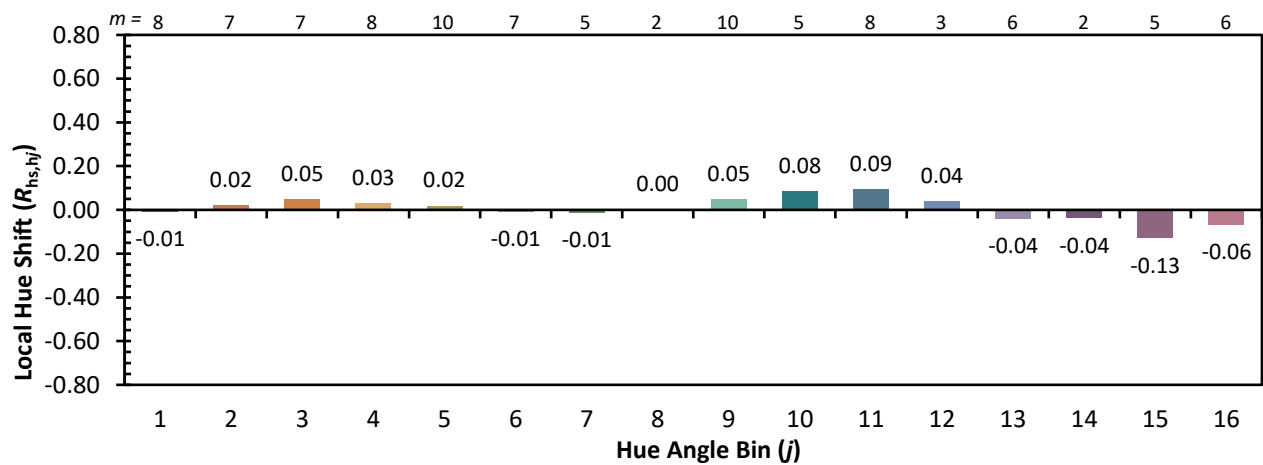
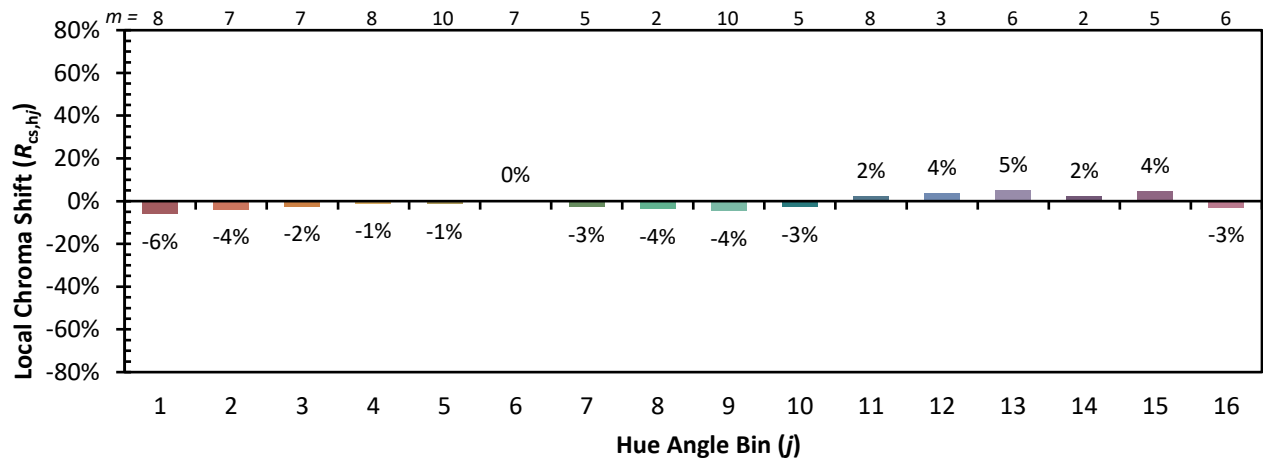


Individual Sample Fidelity Index ($R_{f,i}$)

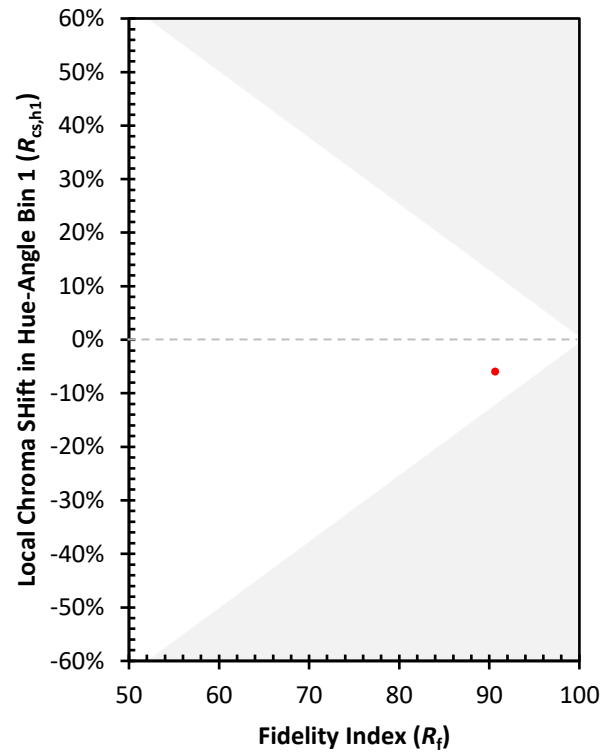
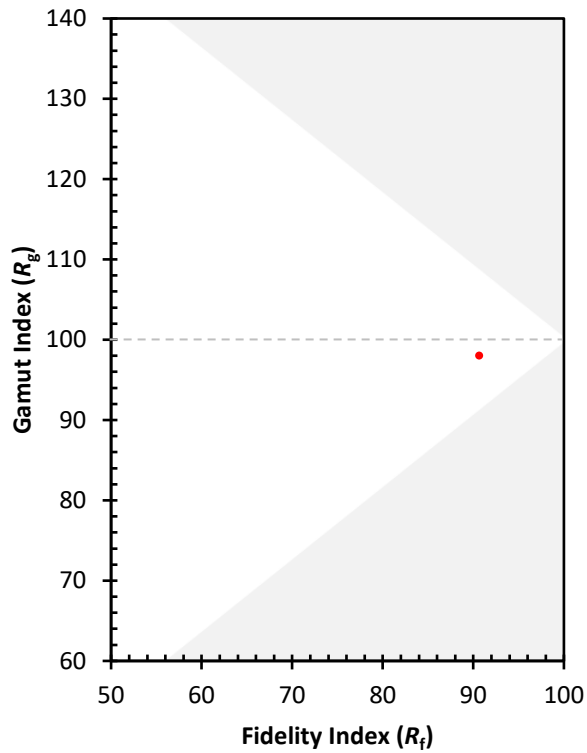
CES01 = 85	CES26 = 92	CES51 = 96	CES76 = 85
CES02 = 60	CES27 = 92	CES52 = 97	CES77 = 88
CES03 = 31	CES28 = 95	CES53 = 94	CES78 = 82
CES04 = 69	CES29 = 95	CES54 = 93	CES79 = 96
CES05 = 48	CES30 = 94	CES55 = 92	CES80 = 93
CES06 = 50	CES31 = 96	CES56 = 92	CES81 = 89
CES07 = 41	CES32 = 91	CES57 = 91	CES82 = 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)