

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: P1049846

Luminaire Tested: **GALN-SA7B-840-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049846
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-840-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 7xLight Square PACKAGE
80CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (98) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25951.7 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

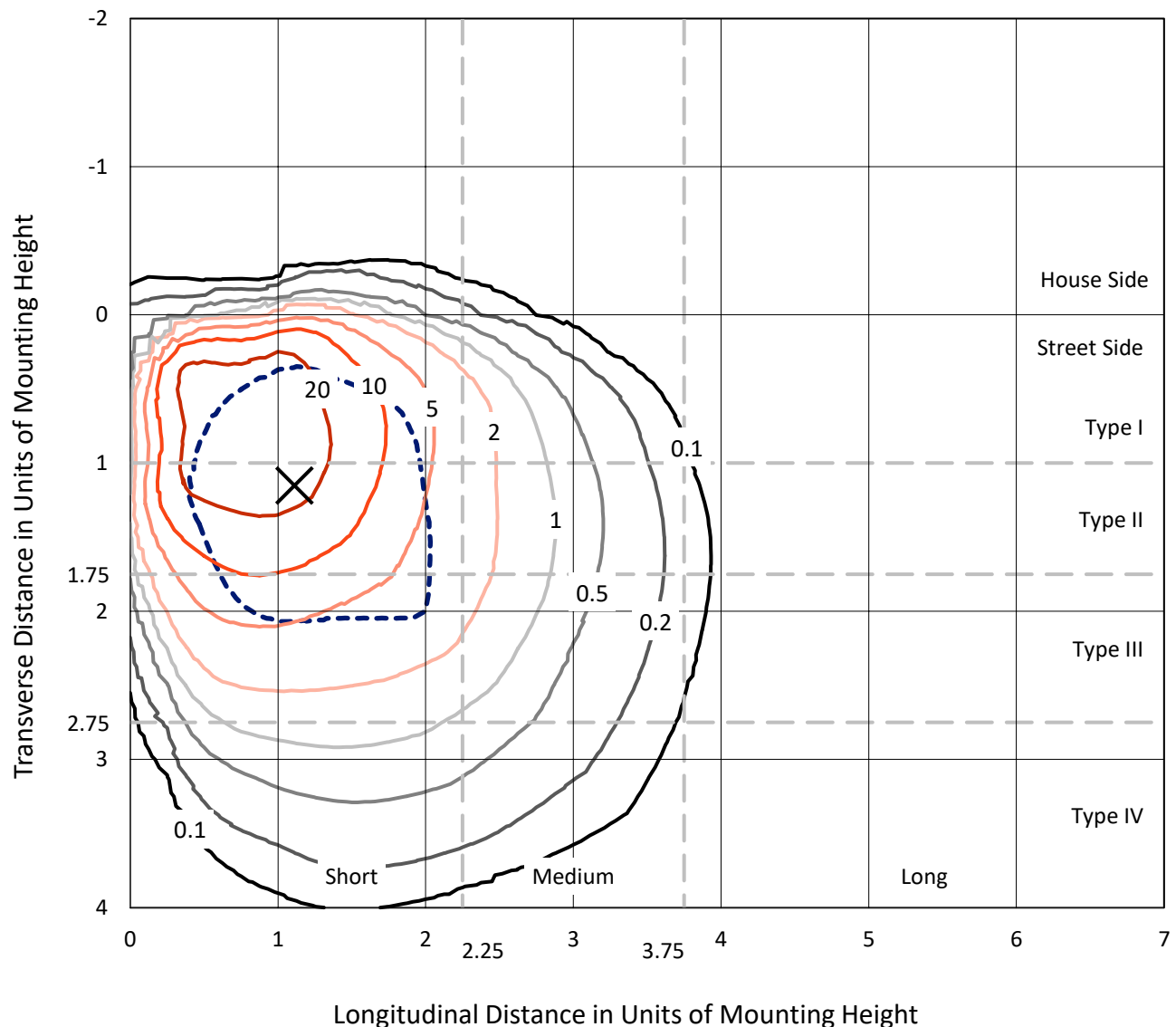
Input Watts (W): 249.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

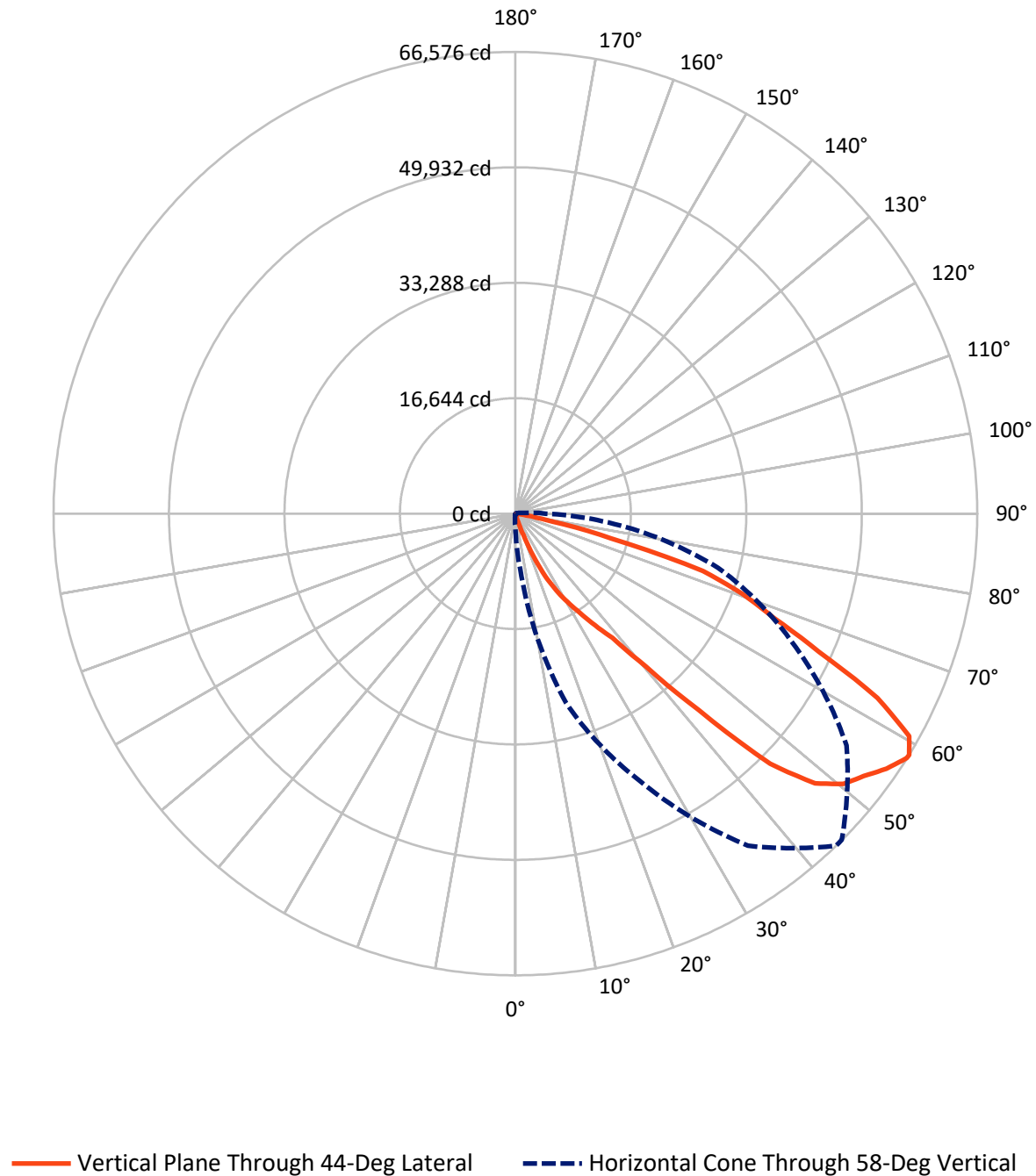
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 45.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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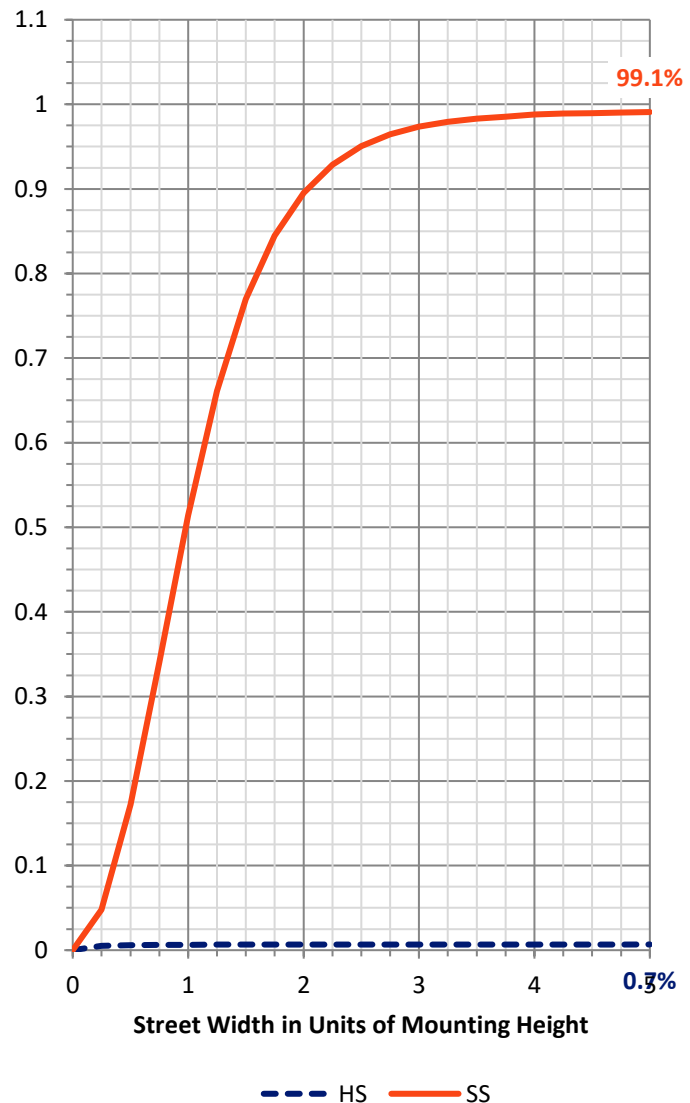
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	177.2	0.0	177.2
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	25774.5	0.0	25774.5
	% Fixture	99.3	0.0	99.3
Total	Lumens	25951.7	0.0	25951.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.1	0.0
10°-20°	56.9	0.2
20°-30°	614.8	2.4
30°-40°	1818.2	7.0
40°-50°	5419.1	20.9
50°-60°	8598.9	33.1
60°-70°	7172.5	27.6
70°-80°	2212.1	8.5
80°-90°	49.1	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°	25951.7	100.0
0°-180°	25951.7	100.0



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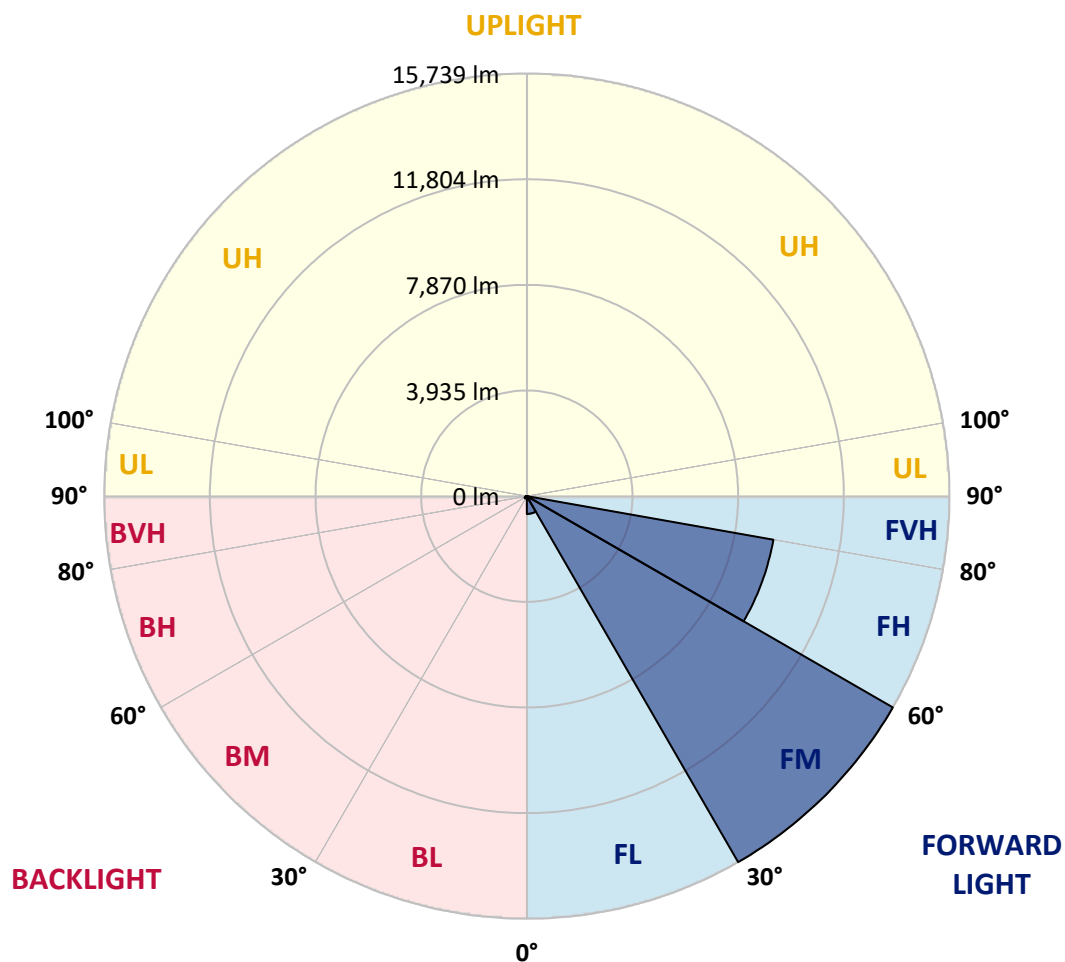
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	664.5	2.6			
FM	(30°-60°)	15739.2	60.6			
FH	(60°-80°)	9324.1	35.9			G4/12000
FVH	(80°-90°)	46.8	0.2			G1/100
BL	(0°-30°)	17.3	0.1	B0/110		
BM	(30°-60°)	97.0	0.4	B0/220		
BH	(60°-80°)	60.5	0.2	B0/110		G0/110
BVH	(80°-90°)	2.4	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	113.7	113.7	113.7	113.7	113.7	113.7	113.7	113.7	113.7	113.7
2.5°	147.0	147.0	141.2	133.3	125.5	117.6	115.7	111.7	109.8	107.8
5°	152.9	152.9	151.0	145.1	137.2	131.3	131.3	125.5	121.5	117.6
7.5°	156.8	158.8	162.7	160.8	156.8	151.0	151.0	147.0	141.2	131.3
10°	162.7	168.6	176.4	180.4	182.3	182.3	180.4	178.4	168.6	154.9
12.5°	168.6	180.4	200.0	219.6	231.3	247.0	245.1	241.1	215.6	186.2
15°	180.4	198.0	239.2	296.0	384.2	439.1	460.7	441.1	356.8	250.9
17.5°	194.1	223.5	347.0	619.5	1015.5	1203.7	1317.4	1225.3	811.6	476.4
20°	207.8	272.5	645.0	1605.6	2634.8	3250.4	3421.0	3154.3	2025.1	907.7
22.5°	231.3	382.3	1307.6	3319.0	5677.4	6600.8	6775.3	5922.5	3824.8	1791.8
25°	280.3	554.8	2254.5	5408.8	8473.0	10031.5	9959.0	8841.6	6204.8	2862.2
27.5°	350.9	807.7	3409.2	7684.9	11150.9	12525.2	12689.9	11307.8	8271.1	4209.0
30°	452.9	1119.4	4648.2	9508.1	13297.6	14783.6	14811.1	13381.9	10119.8	5391.2
32.5°	550.9	1413.5	5732.3	11270.5	15412.9	17042.0	17163.6	15405.1	11499.9	6622.3
35°	625.4	1605.6	6830.1	12819.3	17545.9	19790.6	19782.7	17694.9	13134.9	7722.1
37.5°	631.3	1797.7	7824.1	14403.3	20247.3	22760.6	23009.6	20708.0	15111.0	9082.7
40°	617.5	2013.4	9082.7	16873.4	25115.1	28971.3	29190.8	26289.4	19075.0	11411.7
42.5°	633.2	2387.8	11125.5	21435.4	33198.0	38736.2	39159.6	36109.2	26361.9	16163.8
45°	715.6	3091.6	15405.1	29067.3	44719.4	51471.2	51330.0	46936.7	34840.8	23397.8
47.5°	988.1	4814.8	21749.0	36495.4	52082.8	58095.5	58217.0	52847.4	39788.9	28959.5
50°	1519.3	7367.3	27079.5	40422.2	55248.9	61281.2	61167.5	54962.7	41669.0	31698.2
52.5°	1976.1	9214.0	29753.5	41800.3	55654.7	62855.4	62847.5	55519.4	41961.1	31933.5
55°	2089.8	9353.2	29775.0	41874.8	56564.4	64915.8	65174.6	56889.8	42339.5	30906.2
57.5°	2044.7	8280.9	28532.1	42306.1	58183.7	66509.6	66523.4	58217.0	43300.1	30276.9
58°	2005.5	8112.3	28281.2	42551.2	58462.1	66576.3	66543.0	58277.8	44082.3	30253.4
60°	1786.0	7043.8	27302.9	43176.6	58048.4	65207.9	64896.2	56950.6	43966.6	30012.3
62.5°	1403.7	5495.1	26340.4	42453.2	53613.9	58583.6	58713.0	50420.4	40081.0	28606.6
65°	1117.4	4095.3	24332.9	37238.4	44148.9	48109.0	48591.3	41000.5	33454.8	24223.1
67.5°	890.0	2960.3	20412.0	29647.6	34934.9	40151.6	40502.5	34423.2	25918.9	18559.4
70°	723.4	2001.6	14089.6	21682.4	28814.4	34680.1	34701.6	28596.8	19345.5	12160.6
72.5°	641.1	1386.0	8178.9	15812.8	23364.4	28259.6	27689.1	23205.6	14867.9	7202.6
75°	554.8	919.4	4011.0	9666.9	14166.1	14262.1	14479.8	10764.7	7432.0	3424.9
77.5°	456.8	652.8	1580.1	2640.7	4248.3	5438.2	5640.2	4273.7	2472.1	843.0
80°	313.7	309.7	425.4	809.7	1215.5	1523.3	1421.3	1099.8	646.9	323.5
82.5°	135.3	147.0	192.1	231.3	188.2	182.3	174.5	111.7	86.3	66.7
85°	43.1	39.2	41.2	41.2	33.3	25.5	25.5	11.8	0.0	0.0
87.5°	21.6	17.6	17.6	15.7	9.8	3.9	2.0	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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
113.7	0°	113.7	113.7	113.7	113.7	113.7	113.7	113.7	113.7	113.7	113.7
105.9	2.5°	103.9	103.9	100.0	96.1	94.1	90.2	88.2	86.3	84.3	82.3
113.7	5°	109.8	107.8	101.9	96.1	90.2	84.3	80.4	76.5	72.5	70.6
125.5	7.5°	119.6	115.7	103.9	94.1	86.3	78.4	74.5	68.6	64.7	58.8
139.2	10°	131.3	123.5	107.8	96.1	84.3	74.5	68.6	62.7	56.9	49.0
158.8	12.5°	147.0	133.3	113.7	94.1	80.4	68.6	62.7	54.9	49.0	43.1
184.3	15°	160.8	143.1	115.7	94.1	76.5	62.7	54.9	47.1	41.2	33.3
231.3	17.5°	180.4	151.0	113.7	88.2	70.6	54.9	47.1	41.2	31.4	19.6
343.1	20°	213.7	156.8	109.8	82.3	60.8	45.1	35.3	27.4	13.7	3.9
515.6	22.5°	266.6	172.5	105.9	74.5	52.9	35.3	23.5	9.8	0.0	0.0
784.2	25°	368.6	200.0	105.9	70.6	47.1	25.5	7.8	0.0	0.0	0.0
1113.5	27.5°	490.1	237.2	105.9	60.8	37.2	13.7	0.0	0.0	0.0	0.0
1517.4	30°	613.6	278.4	105.9	52.9	29.4	2.0	0.0	0.0	0.0	0.0
1868.3	32.5°	731.2	313.7	107.8	45.1	19.6	0.0	0.0	0.0	0.0	0.0
2354.5	35°	850.8	319.6	105.9	39.2	11.8	0.0	0.0	0.0	0.0	0.0
2950.5	37.5°	1003.7	307.8	100.0	35.3	5.9	0.0	0.0	0.0	0.0	0.0
3881.7	40°	1235.1	313.7	94.1	33.3	2.0	0.0	0.0	0.0	0.0	0.0
5542.1	42.5°	1662.4	339.2	86.3	33.3	0.0	0.0	0.0	0.0	0.0	0.0
8827.8	45°	2874.0	454.8	78.4	35.3	0.0	0.0	0.0	0.0	0.0	0.0
13252.5	47.5°	4754.0	817.5	76.5	35.3	0.0	0.0	0.0	0.0	0.0	0.0
15963.8	50°	6067.5	1029.2	80.4	37.2	0.0	0.0	0.0	0.0	0.0	0.0
16303.0	52.5°	6057.7	1146.9	84.3	39.2	7.8	0.0	0.0	0.0	0.0	0.0
15026.7	55°	5385.3	1168.4	90.2	43.1	25.5	0.0	0.0	0.0	0.0	0.0
12913.4	57.5°	4501.2	1066.5	103.9	52.9	47.1	0.0	0.0	0.0	0.0	0.0
12582.1	58°	4344.3	1019.4	107.8	54.9	51.0	0.0	0.0	0.0	0.0	0.0
10913.7	60°	3560.1	831.2	137.2	68.6	68.6	0.0	0.0	0.0	0.0	0.0
8947.4	62.5°	2458.4	725.4	156.8	88.2	70.6	0.0	0.0	0.0	0.0	0.0
6596.9	65°	1738.9	654.8	170.6	94.1	56.9	0.0	0.0	0.0	0.0	0.0
4687.4	67.5°	1299.8	603.8	188.2	96.1	29.4	0.0	0.0	0.0	0.0	0.0
2940.6	70°	995.9	566.6	231.3	101.9	7.8	0.0	0.0	0.0	0.0	0.0
1752.6	72.5°	811.6	523.4	280.3	105.9	0.0	0.0	0.0	0.0	0.0	0.0
1050.8	75°	672.4	472.5	270.5	115.7	0.0	0.0	0.0	0.0	0.0	0.0
560.7	77.5°	447.0	366.6	247.0	115.7	0.0	0.0	0.0	0.0	0.0	0.0
200.0	80°	156.8	145.1	192.1	101.9	0.0	0.0	0.0	0.0	0.0	0.0
41.2	82.5°	23.5	19.6	27.4	35.3	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°
113.7	0°	113.7	113.7	113.7	113.7	113.7	113.7	113.7	113.7	113.7	113.7
80.4	2.5°	80.4	80.4	78.4	80.4	80.4	84.3	94.1	107.8	123.5	129.4
68.6	5°	66.7	64.7	62.7	62.7	62.7	68.6	76.5	92.1	109.8	117.6
56.9	7.5°	54.9	52.9	51.0	49.0	49.0	52.9	62.7	80.4	98.0	105.9
47.1	10°	45.1	41.2	39.2	37.2	37.2	41.2	51.0	68.6	88.2	96.1
39.2	12.5°	37.2	31.4	27.4	25.5	23.5	29.4	39.2	54.9	76.5	86.3
29.4	15°	25.5	19.6	13.7	11.8	9.8	15.7	25.5	43.1	64.7	76.5
15.7	17.5°	13.7	5.9	2.0	0.0	0.0	3.9	11.8	31.4	52.9	62.7
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7	39.2	49.0
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	23.5	33.3
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8	17.6
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9
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	5.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	15.7
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°
113.7	0°	113.7	113.7	113.7	113.7	113.7	113.7	113.7	113.7	113.7	113.7
135.3	2.5°	139.2	137.2	133.3	129.4	129.4	129.4	135.3	141.2	147.0	147.0
121.5	5°	129.4	129.4	127.4	123.5	123.5	125.5	133.3	143.1	151.0	152.9
111.7	7.5°	119.6	123.5	119.6	117.6	119.6	121.5	129.4	141.2	152.9	156.8
103.9	10°	113.7	115.7	115.7	113.7	113.7	117.6	125.5	141.2	156.8	162.7
94.1	12.5°	105.9	109.8	107.8	107.8	107.8	111.7	121.5	139.2	160.8	168.6
84.3	15°	98.0	103.9	103.9	101.9	101.9	103.9	117.6	137.2	166.6	180.4
72.5	17.5°	90.2	96.1	98.0	94.1	94.1	98.0	111.7	137.2	170.6	194.1
58.8	20°	74.5	84.3	90.2	84.3	84.3	88.2	101.9	129.4	172.5	207.8
43.1	22.5°	58.8	68.6	76.5	74.5	74.5	76.5	94.1	123.5	174.5	231.3
25.5	25°	43.1	52.9	58.8	62.7	62.7	68.6	86.3	119.6	182.3	280.3
11.8	27.5°	25.5	37.2	45.1	49.0	51.0	58.8	80.4	115.7	196.0	350.9
0.0	30°	11.8	21.6	31.4	39.2	39.2	52.9	74.5	111.7	213.7	452.9
0.0	32.5°	0.0	9.8	15.7	27.4	29.4	43.1	68.6	107.8	239.2	550.9
0.0	35°	0.0	0.0	7.8	21.6	21.6	35.3	62.7	103.9	278.4	625.4
0.0	37.5°	0.0	0.0	0.0	15.7	17.6	31.4	60.8	101.9	286.2	631.3
0.0	40°	0.0	0.0	0.0	11.8	13.7	29.4	60.8	103.9	258.8	617.5
0.0	42.5°	0.0	0.0	0.0	7.8	9.8	29.4	60.8	107.8	233.3	633.2
0.0	45°	0.0	0.0	0.0	5.9	7.8	31.4	58.8	105.9	219.6	715.6
0.0	47.5°	0.0	0.0	0.0	7.8	11.8	31.4	56.9	103.9	221.5	988.1
0.0	50°	0.0	0.0	0.0	9.8	13.7	31.4	58.8	100.0	243.1	1519.3
0.0	52.5°	0.0	0.0	0.0	7.8	11.8	35.3	64.7	98.0	264.7	1976.1
0.0	55°	0.0	0.0	0.0	2.0	5.9	45.1	70.6	98.0	298.0	2089.8
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	51.0	80.4	103.9	352.9	2044.7
0.0	58°	0.0	0.0	0.0	0.0	0.0	51.0	82.3	103.9	356.8	2005.5
0.0	60°	0.0	0.0	0.0	0.0	0.0	51.0	90.2	115.7	384.2	1786.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	43.1	107.8	145.1	399.9	1403.7
0.0	65°	0.0	0.0	0.0	0.0	0.0	35.3	127.4	158.8	411.7	1117.4
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	33.3	131.3	160.8	417.6	890.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	35.3	129.4	172.5	437.2	723.4
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	39.2	117.6	190.2	437.2	641.1
0.0	75°	0.0	0.0	0.0	0.0	0.0	41.2	109.8	213.7	398.0	554.8
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	39.2	107.8	249.0	354.8	456.8
0.0	80°	3.9	5.9	5.9	3.9	3.9	33.3	105.9	252.9	301.9	313.7
2.0	82.5°	11.8	15.7	13.7	9.8	9.8	29.4	94.1	211.7	156.8	135.3
11.8	85°	21.6	25.5	25.5	21.6	21.6	27.4	58.8	76.5	52.9	43.1
21.6	87.5°	29.4	33.3	33.3	29.4	29.4	27.4	25.5	23.5	21.6	21.6
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: SP1-2407-184-11

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-840-U-5WQ

Data in this report applies to families of products including GSS-SB1A-840-U-5WQ

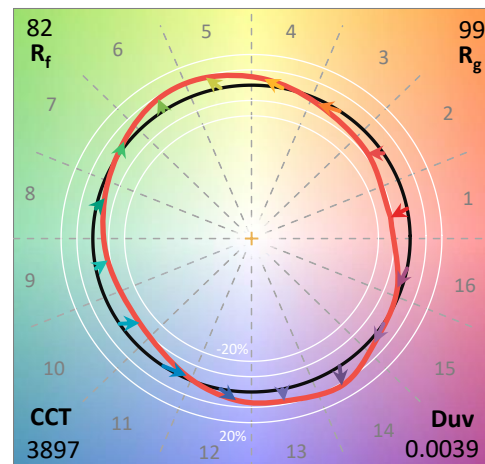
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-11
 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-840-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 4000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3897
 CIE u' : 0.2249
 CIE v' : 0.5084
 Duv: 0.0039
 CIE x: 0.3882
 CIE y: 0.3900
 CIE z: 0.2218
 Peak Wavelength (nm): 445
 Dominant Wavelength (nm): 577
 Purity: 33.54925
 R_f: 81.8
 R_g: 98.6

CRI (Ra): 80.2
 R1: 78.9
 R2: 83.5
 R3: 88.3
 R4: 82.1
 R5: 78.8
 R6: 78.4
 R7: 85.8
 R8: 65.8
 R9: 6.7
 R10: 61.9
 R11: 81.9
 R12: 58.9
 R13: 79.2
 R14: 93.2
 R15: 71.9



Test Conditions

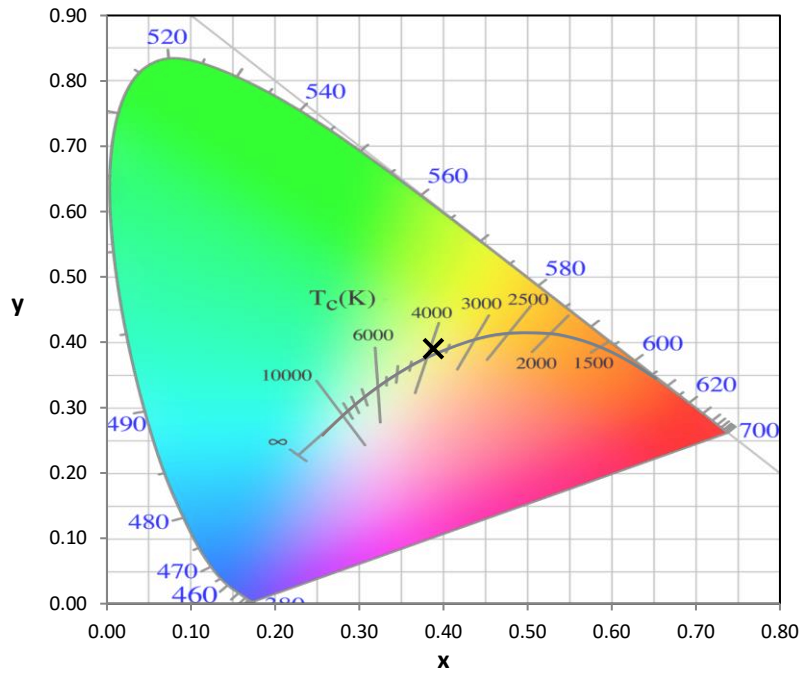
Stabilization Time: 24M
 Operation Time: 1H 24M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-11

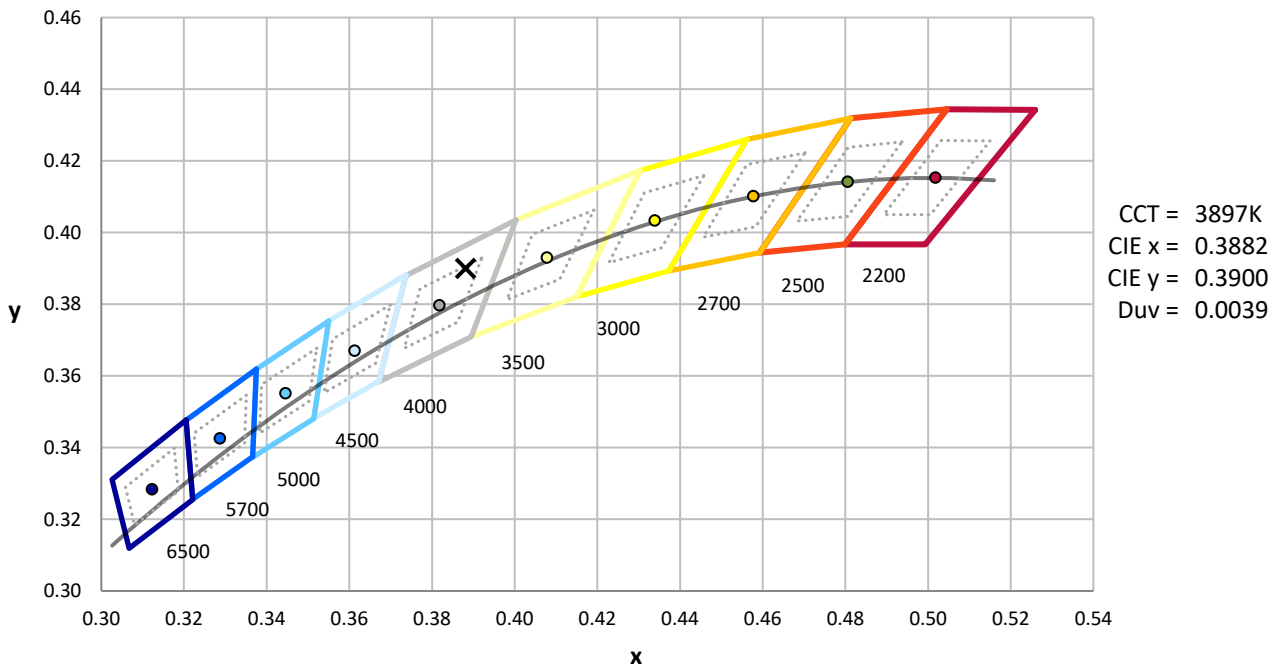
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-11

CIE 1931 Chromaticity Diagram

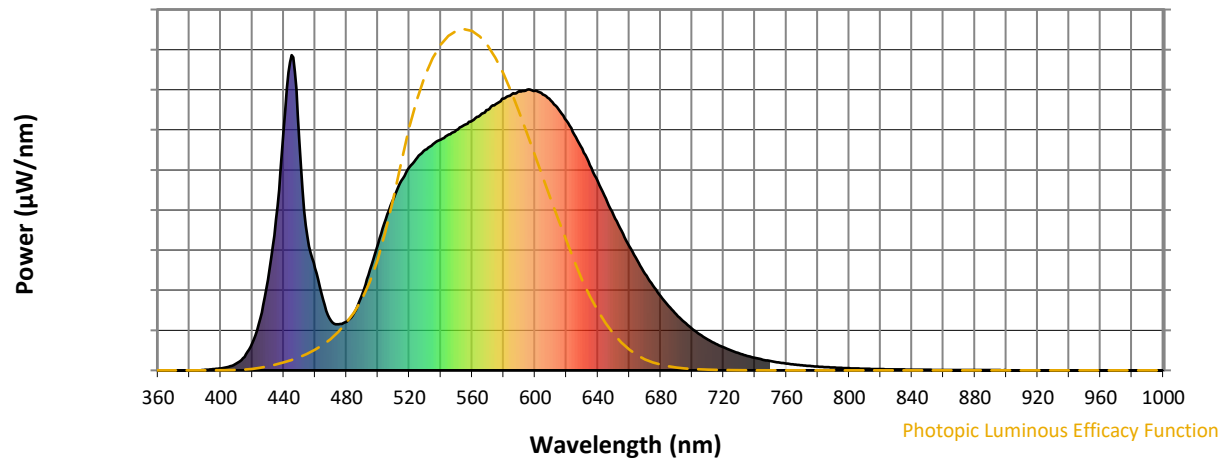


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



REPORT NUMBER: SP1-2407-184-11

Photopic Flux vs. Wavelength

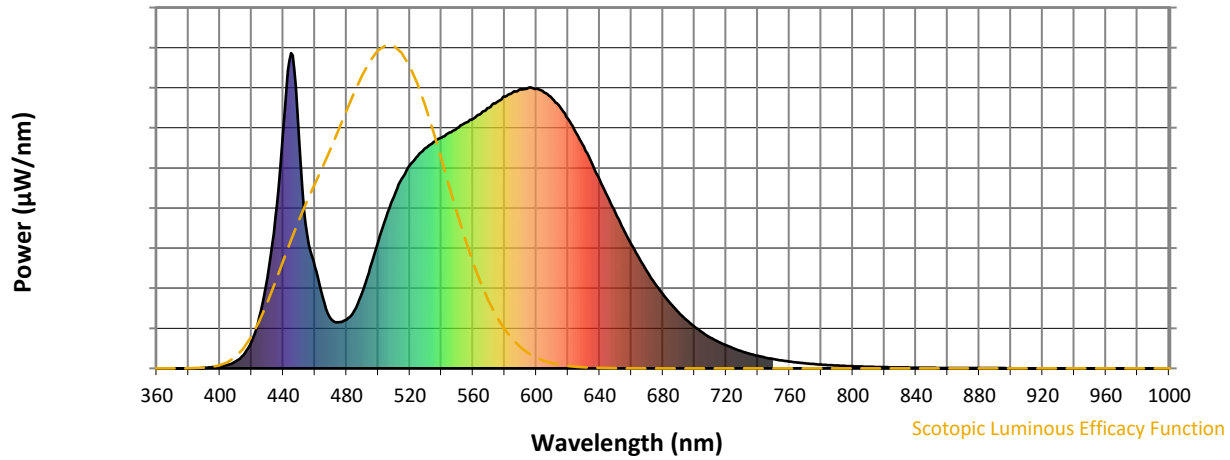


Photopic Lumens: NR

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

Scotopic Flux vs. Wavelength



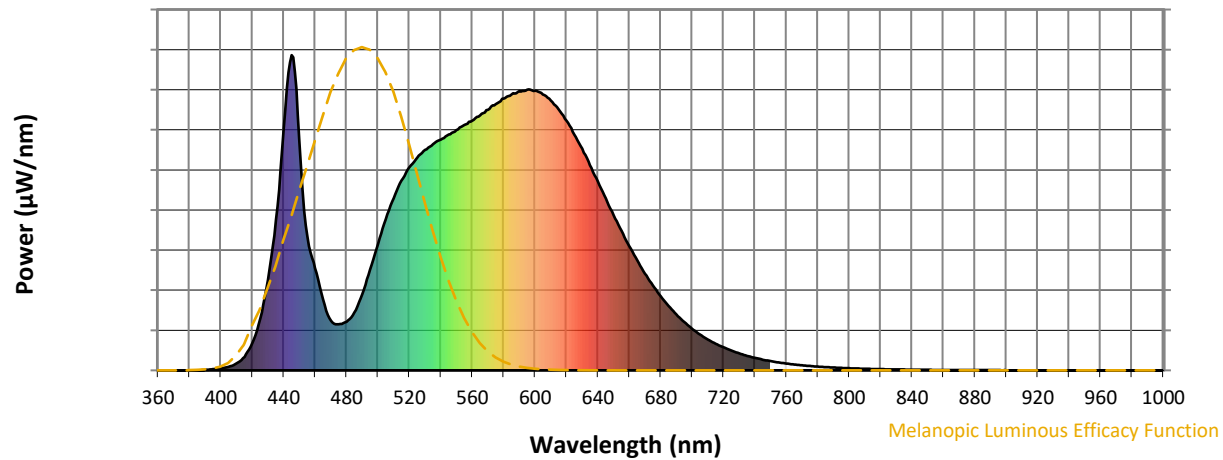
Scotopic Lumens: NR

S/P: 1.57

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.06

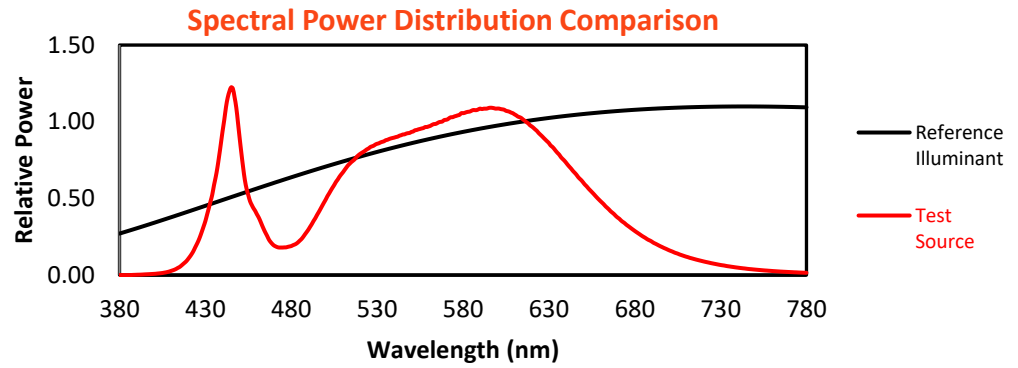
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

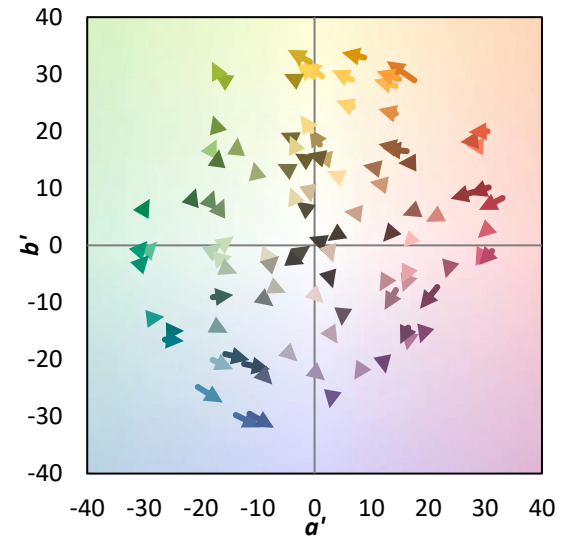
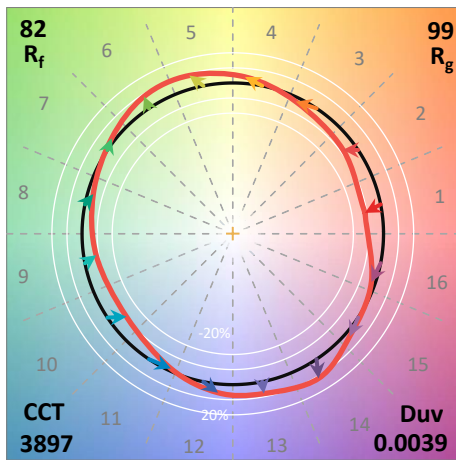
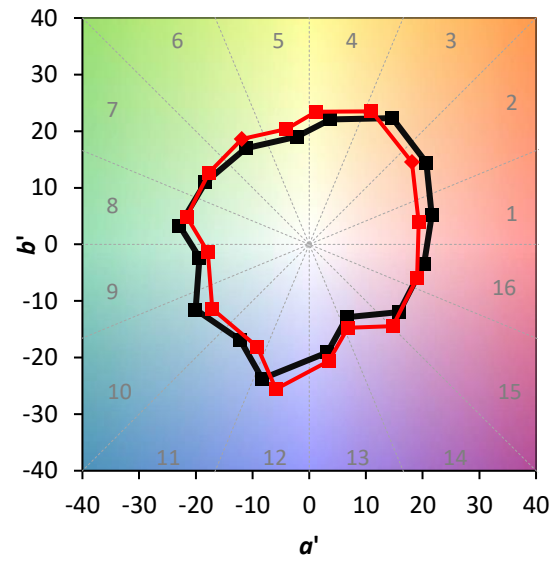
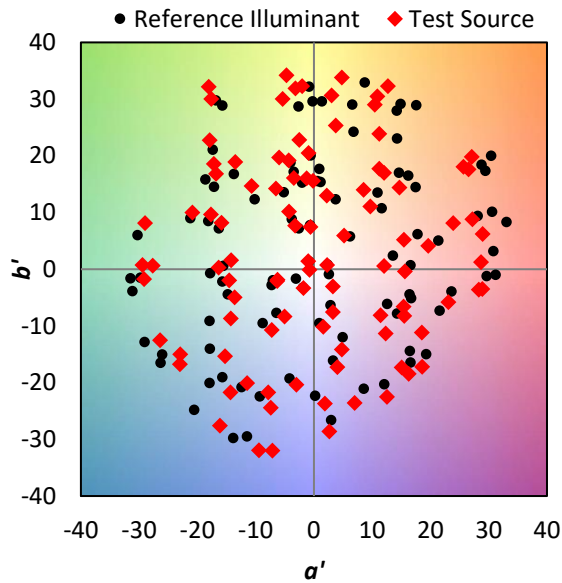
TM-30-18

Summary

$R_f = 81.8$
 $R_g = 98.6$
 CIE $R_a = 80.2$
 $R_9 = 6.7$

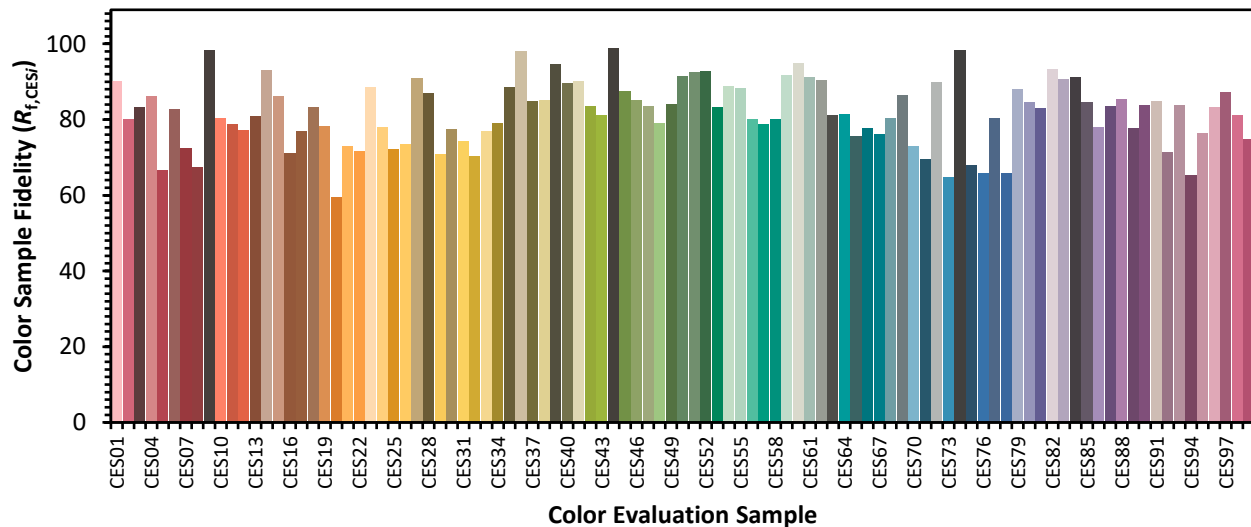


Color Vector Graphics

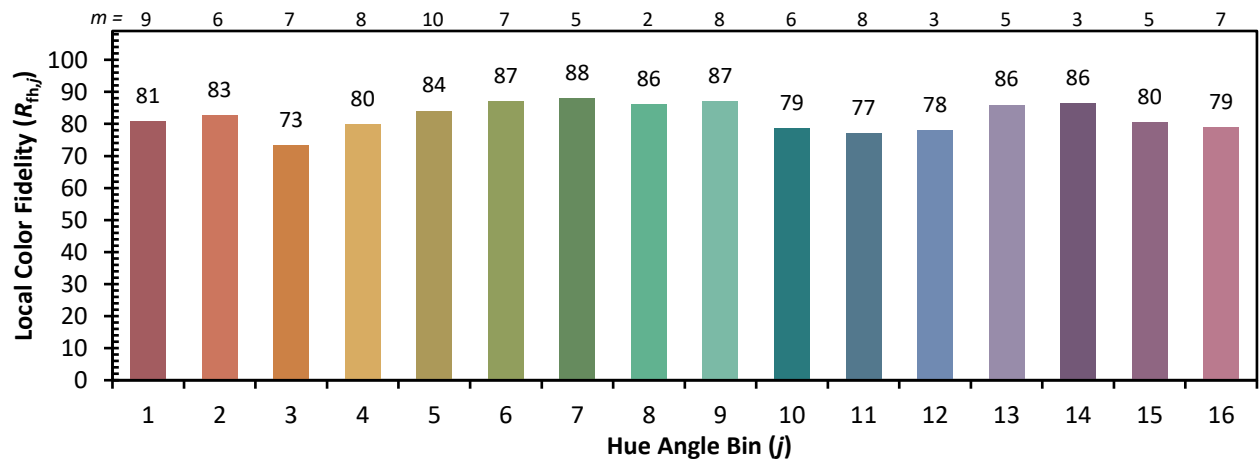
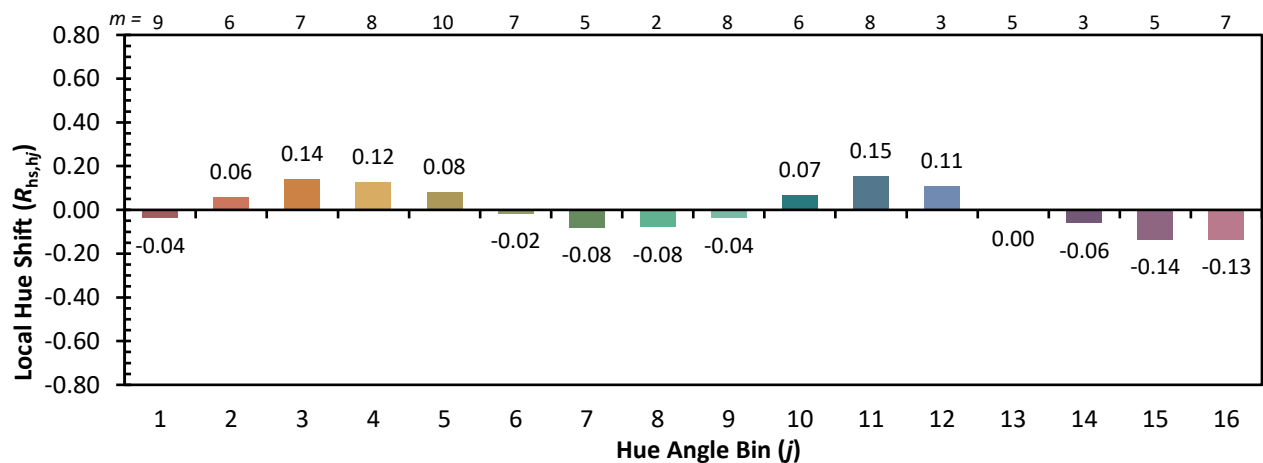
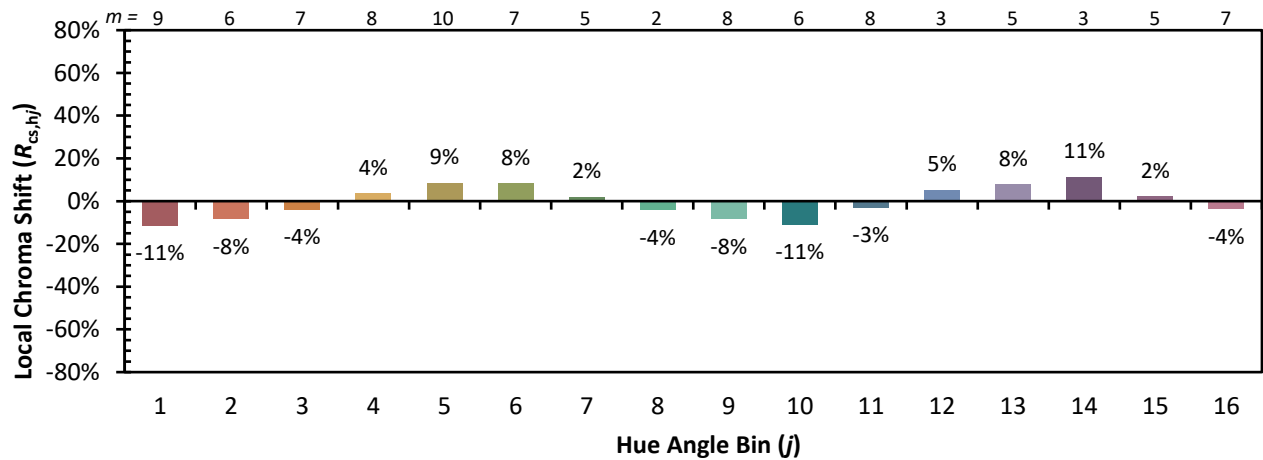


Individual Sample Fidelity Index ($R_{f,i}$)

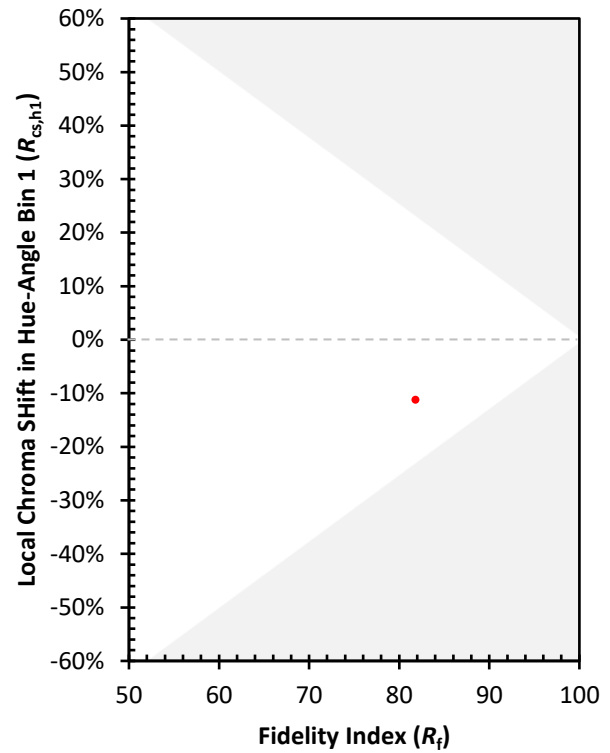
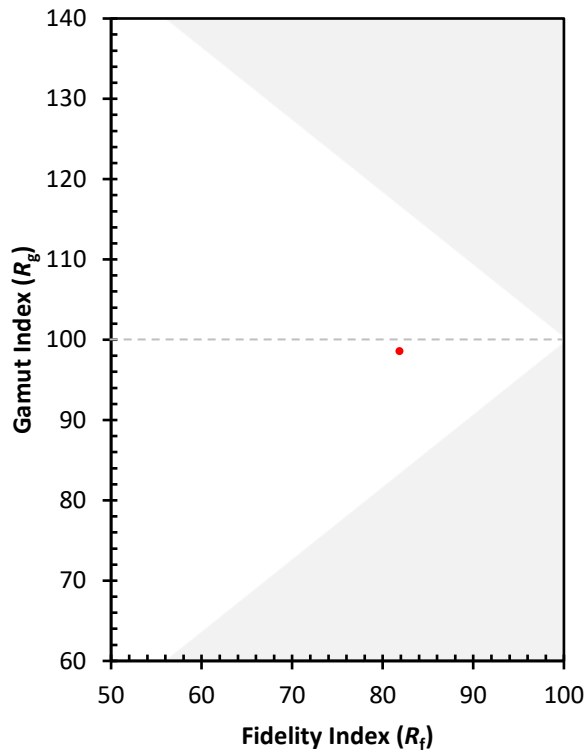
CES01 = 85	CES26 = 73	CES51 = 93	CES76 = 66
CES02 = 61	CES27 = 91	CES52 = 93	CES77 = 80
CES03 = 31	CES28 = 87	CES53 = 83	CES78 = 66
CES04 = 69	CES29 = 71	CES54 = 89	CES79 = 88
CES05 = 48	CES30 = 77	CES55 = 88	CES80 = 85
CES06 = 50	CES31 = 74	CES56 = 80	CES81 = 83
CES07 = 41	CES32 = 70	CES57 = 79	CES82 = 93
CES08 = 40	CES33 = 77	CES58 = 80	CES83 = 91
CES09 = 29	CES34 = 79	CES59 = 92	CES84 = 91
CES10 = 74	CES35 = 88	CES60 = 95	CES85 = 84
CES11 = 57	CES36 = 98	CES61 = 91	CES86 = 78
CES12 = 63	CES37 = 85	CES62 = 90	CES87 = 84
CES13 = 42	CES38 = 85	CES63 = 81	CES88 = 85
CES14 = 74	CES39 = 95	CES64 = 81	CES89 = 78
CES15 = 71	CES40 = 90	CES65 = 76	CES90 = 84
CES16 = 47	CES41 = 90	CES66 = 78	CES91 = 85
CES17 = 49	CES42 = 84	CES67 = 76	CES92 = 71
CES18 = 56	CES43 = 81	CES68 = 80	CES93 = 84
CES19 = 71	CES44 = 99	CES69 = 86	CES94 = 65
CES20 = 65	CES45 = 87	CES70 = 73	CES95 = 77
CES21 = 86	CES46 = 85	CES71 = 70	CES96 = 83
CES22 = 78	CES47 = 84	CES72 = 90	CES97 = 87
CES23 = 91	CES48 = 79	CES73 = 65	CES98 = 81
CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 75
CES25 = 71	CES50 = 91	CES75 = 68	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)