

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: P1049713

Luminaire Tested: **GALN-SA1A-827-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049713
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-827-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 1xLight Square PACKAGE
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2861.7 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

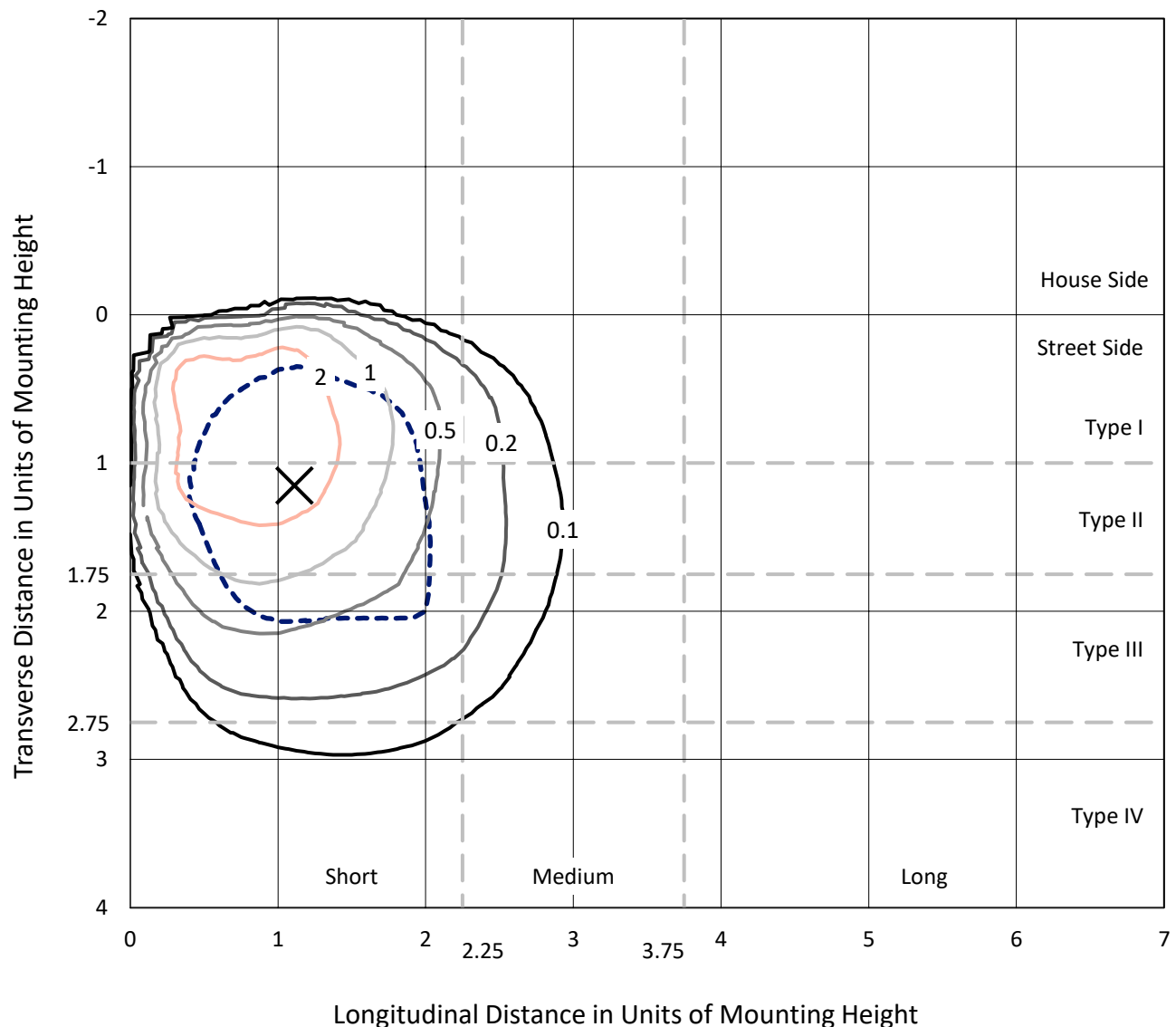
Input Watts (W): 29
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

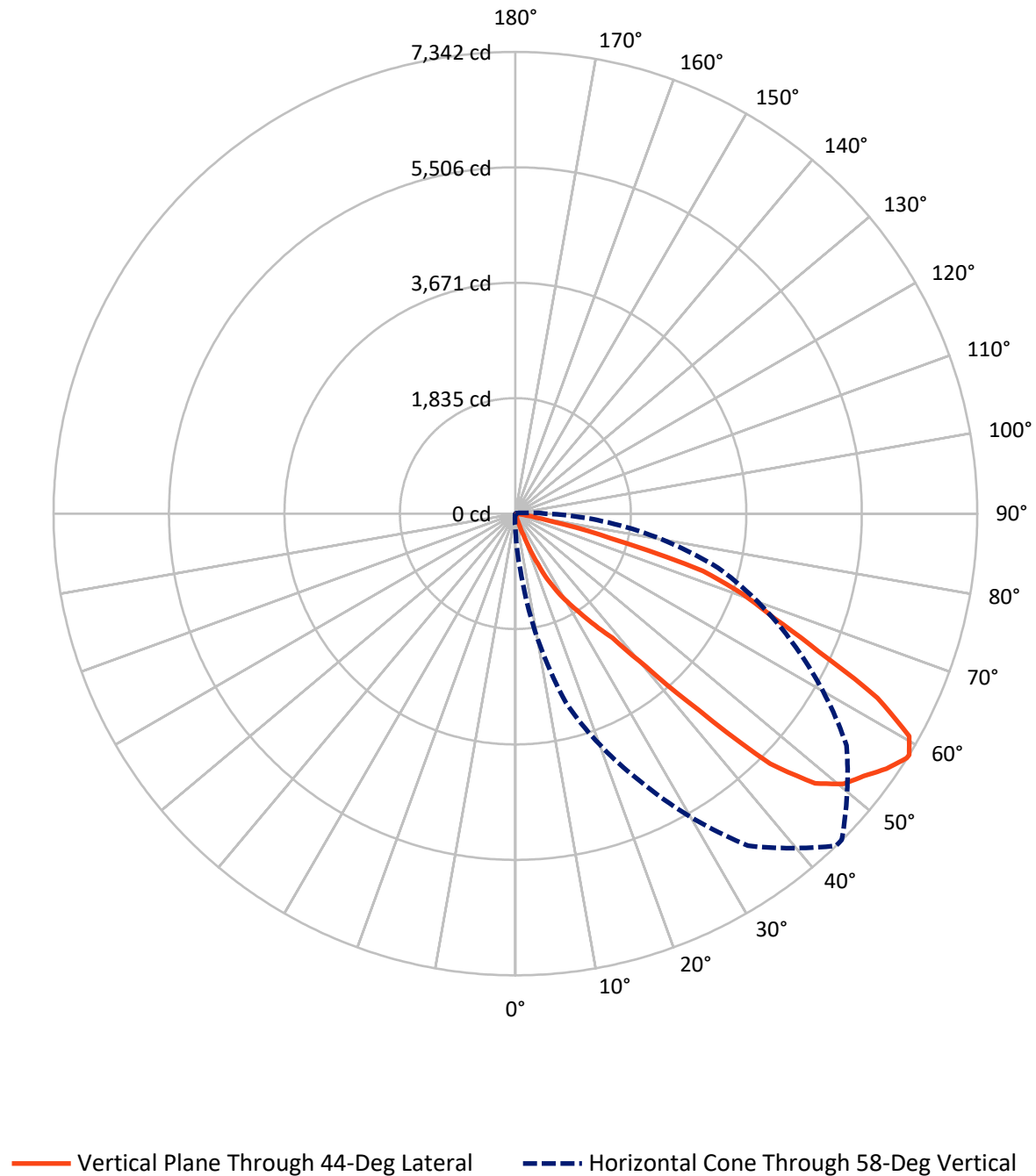
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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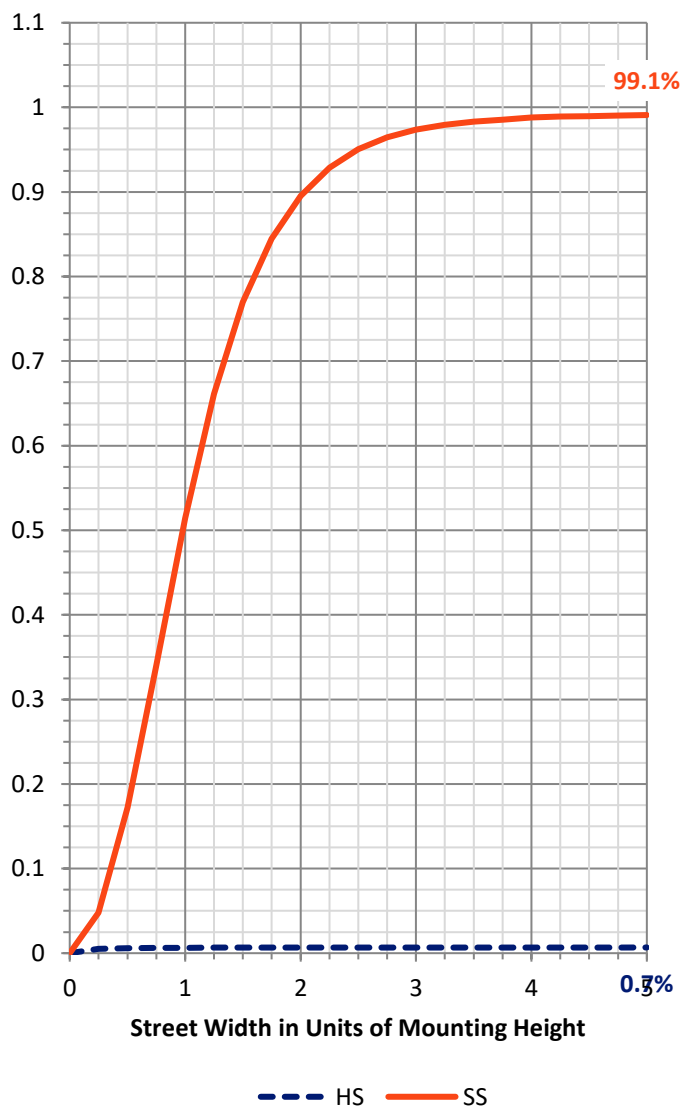
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19.5	0.0	19.5
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	2842.2	0.0	2842.2
	% Fixture	99.3	0.0	99.3
Total	Lumens	2861.7	0.0	2861.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.0
10°-20°	6.3	0.2
20°-30°	67.8	2.4
30°-40°	200.5	7.0
40°-50°	597.6	20.9
50°-60°	948.2	33.1
60°-70°	790.9	27.6
70°-80°	243.9	8.5
80°-90°	5.4	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°	2861.7	100.0
0°-180°	2861.7	100.0

Coefficient of Utilization



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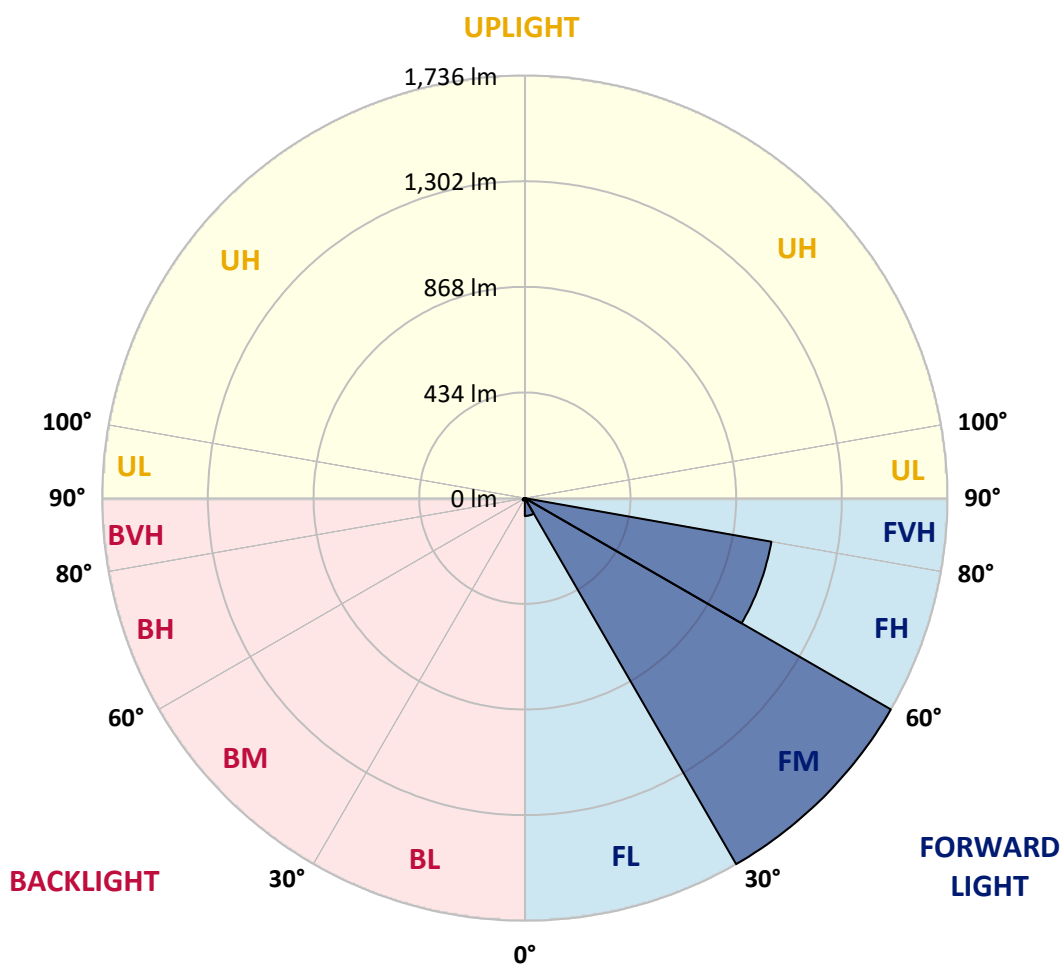
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	73.3	2.6			
FM	(30°-60°)	1735.6	60.6			
FH	(60°-80°)	1028.2	35.9			G1/1800
FVH	(80°-90°)	5.2	0.2			G0/10
BL	(0°-30°)	1.9	0.1	B0/110		
BM	(30°-60°)	10.7	0.4	B0/220		
BH	(60°-80°)	6.7	0.2	B0/110		G0/110
BVH	(80°-90°)	0.3	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
2.5°	16.2	16.2	15.6	14.7	13.8	13.0	12.8	12.3	12.1	11.9
5°	16.9	16.9	16.6	16.0	15.1	14.5	14.5	13.8	13.4	13.0
7.5°	17.3	17.5	17.9	17.7	17.3	16.6	16.6	16.2	15.6	14.5
10°	17.9	18.6	19.5	19.9	20.1	20.1	19.9	19.7	18.6	17.1
12.5°	18.6	19.9	22.1	24.2	25.5	27.2	27.0	26.6	23.8	20.5
15°	19.9	21.8	26.4	32.6	42.4	48.4	50.8	48.6	39.3	27.7
17.5°	21.4	24.6	38.3	68.3	112.0	132.7	145.3	135.1	89.5	52.5
20°	22.9	30.0	71.1	177.1	290.5	358.4	377.2	347.8	223.3	100.1
22.5°	25.5	42.2	144.2	366.0	626.1	727.9	747.1	653.1	421.8	197.6
25°	30.9	61.2	248.6	596.4	934.3	1106.2	1098.2	975.0	684.2	315.6
27.5°	38.7	89.1	375.9	847.4	1229.6	1381.2	1399.3	1246.9	912.1	464.1
30°	49.9	123.4	512.6	1048.5	1466.3	1630.2	1633.2	1475.6	1115.9	594.5
32.5°	60.7	155.9	632.1	1242.8	1699.6	1879.2	1892.7	1698.7	1268.1	730.3
35°	69.0	177.1	753.2	1413.6	1934.8	2182.3	2181.5	1951.2	1448.4	851.5
37.5°	69.6	198.2	862.8	1588.3	2232.7	2509.8	2537.3	2283.5	1666.3	1001.6
40°	68.1	222.0	1001.6	1860.7	2769.5	3194.7	3218.9	2899.0	2103.4	1258.4
42.5°	69.8	263.3	1226.8	2363.7	3660.8	4271.5	4318.2	3981.8	2907.0	1782.4
45°	78.9	340.9	1698.7	3205.3	4931.3	5675.8	5660.2	5175.8	3841.9	2580.1
47.5°	109.0	530.9	2398.3	4024.4	5743.2	6406.3	6419.7	5827.5	4387.6	3193.4
50°	167.5	812.4	2986.1	4457.4	6092.4	6757.6	6745.0	6060.8	4594.9	3495.4
52.5°	217.9	1016.0	3281.0	4609.4	6137.1	6931.1	6930.3	6122.2	4627.1	3521.3
55°	230.4	1031.4	3283.3	4617.6	6237.4	7158.3	7186.9	6273.3	4668.8	3408.1
57.5°	225.5	913.1	3146.3	4665.2	6416.0	7334.1	7335.6	6419.7	4774.8	3338.7
58°	221.2	894.6	3118.6	4692.2	6446.7	7341.5	7337.8	6426.4	4861.0	3336.1
60°	196.9	776.7	3010.7	4761.1	6401.1	7190.6	7156.2	6280.0	4848.3	3309.5
62.5°	154.8	606.0	2904.6	4681.4	5912.1	6460.1	6474.4	5559.9	4419.8	3154.5
65°	123.2	451.6	2683.2	4106.3	4868.4	5305.0	5358.2	4521.2	3689.1	2671.1
67.5°	98.1	326.4	2250.9	3269.3	3852.3	4427.6	4466.3	3795.9	2858.1	2046.6
70°	79.8	220.7	1553.7	2390.9	3177.4	3824.2	3826.6	3153.4	2133.3	1341.0
72.5°	70.7	152.8	901.9	1743.7	2576.4	3116.2	3053.3	2558.9	1639.5	794.2
75°	61.2	101.4	442.3	1066.0	1562.1	1572.7	1596.7	1187.0	819.5	377.7
77.5°	50.4	72.0	174.2	291.2	468.5	599.7	621.9	471.3	272.6	93.0
80°	34.6	34.2	46.9	89.3	134.0	168.0	156.7	121.3	71.3	35.7
82.5°	14.9	16.2	21.2	25.5	20.8	20.1	19.2	12.3	9.5	7.4
85°	4.8	4.3	4.5	4.5	3.7	2.8	2.8	1.3	0.0	0.0
87.5°	2.4	1.9	1.9	1.7	1.1	0.4	0.2	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°
12.5	0°	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
11.7	2.5°	11.5	11.5	11.0	10.6	10.4	9.9	9.7	9.5	9.3	9.1
12.5	5°	12.1	11.9	11.2	10.6	9.9	9.3	8.9	8.4	8.0	7.8
13.8	7.5°	13.2	12.8	11.5	10.4	9.5	8.6	8.2	7.6	7.1	6.5
15.3	10°	14.5	13.6	11.9	10.6	9.3	8.2	7.6	6.9	6.3	5.4
17.5	12.5°	16.2	14.7	12.5	10.4	8.9	7.6	6.9	6.1	5.4	4.8
20.3	15°	17.7	15.8	12.8	10.4	8.4	6.9	6.1	5.2	4.5	3.7
25.5	17.5°	19.9	16.6	12.5	9.7	7.8	6.1	5.2	4.5	3.5	2.2
37.8	20°	23.6	17.3	12.1	9.1	6.7	5.0	3.9	3.0	1.5	0.4
56.9	22.5°	29.4	19.0	11.7	8.2	5.8	3.9	2.6	1.1	0.0	0.0
86.5	25°	40.6	22.1	11.7	7.8	5.2	2.8	0.9	0.0	0.0	0.0
122.8	27.5°	54.0	26.2	11.7	6.7	4.1	1.5	0.0	0.0	0.0	0.0
167.3	30°	67.7	30.7	11.7	5.8	3.2	0.2	0.0	0.0	0.0	0.0
206.0	32.5°	80.6	34.6	11.9	5.0	2.2	0.0	0.0	0.0	0.0	0.0
259.6	35°	93.8	35.2	11.7	4.3	1.3	0.0	0.0	0.0	0.0	0.0
325.3	37.5°	110.7	33.9	11.0	3.9	0.6	0.0	0.0	0.0	0.0	0.0
428.0	40°	136.2	34.6	10.4	3.7	0.2	0.0	0.0	0.0	0.0	0.0
611.1	42.5°	183.3	37.4	9.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0
973.5	45°	316.9	50.2	8.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0
1461.4	47.5°	524.2	90.1	8.4	3.9	0.0	0.0	0.0	0.0	0.0	0.0
1760.3	50°	669.1	113.5	8.9	4.1	0.0	0.0	0.0	0.0	0.0	0.0
1797.7	52.5°	668.0	126.5	9.3	4.3	0.9	0.0	0.0	0.0	0.0	0.0
1657.0	55°	593.8	128.8	9.9	4.8	2.8	0.0	0.0	0.0	0.0	0.0
1424.0	57.5°	496.3	117.6	11.5	5.8	5.2	0.0	0.0	0.0	0.0	0.0
1387.4	58°	479.1	112.4	11.9	6.1	5.6	0.0	0.0	0.0	0.0	0.0
1203.5	60°	392.6	91.7	15.1	7.6	7.6	0.0	0.0	0.0	0.0	0.0
986.6	62.5°	271.1	80.0	17.3	9.7	7.8	0.0	0.0	0.0	0.0	0.0
727.4	65°	191.8	72.2	18.8	10.4	6.3	0.0	0.0	0.0	0.0	0.0
516.9	67.5°	143.3	66.6	20.8	10.6	3.2	0.0	0.0	0.0	0.0	0.0
324.3	70°	109.8	62.5	25.5	11.2	0.9	0.0	0.0	0.0	0.0	0.0
193.3	72.5°	89.5	57.7	30.9	11.7	0.0	0.0	0.0	0.0	0.0	0.0
115.9	75°	74.1	52.1	29.8	12.8	0.0	0.0	0.0	0.0	0.0	0.0
61.8	77.5°	49.3	40.4	27.2	12.8	0.0	0.0	0.0	0.0	0.0	0.0
22.1	80°	17.3	16.0	21.2	11.2	0.0	0.0	0.0	0.0	0.0	0.0
4.5	82.5°	2.6	2.2	3.0	3.9	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°
12.5	0°	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
8.9	2.5°	8.9	8.9	8.6	8.9	8.9	9.3	10.4	11.9	13.6	14.3
7.6	5°	7.4	7.1	6.9	6.9	6.9	7.6	8.4	10.2	12.1	13.0
6.3	7.5°	6.1	5.8	5.6	5.4	5.4	5.8	6.9	8.9	10.8	11.7
5.2	10°	5.0	4.5	4.3	4.1	4.1	4.5	5.6	7.6	9.7	10.6
4.3	12.5°	4.1	3.5	3.0	2.8	2.6	3.2	4.3	6.1	8.4	9.5
3.2	15°	2.8	2.2	1.5	1.3	1.1	1.7	2.8	4.8	7.1	8.4
1.7	17.5°	1.5	0.6	0.2	0.0	0.0	0.4	1.3	3.5	5.8	6.9
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	4.3	5.4
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.6	3.7
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.9
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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	0.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.7
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°
12.5	0°	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
14.9	2.5°	15.3	15.1	14.7	14.3	14.3	14.3	14.9	15.6	16.2	16.2
13.4	5°	14.3	14.3	14.1	13.6	13.6	13.8	14.7	15.8	16.6	16.9
12.3	7.5°	13.2	13.6	13.2	13.0	13.2	13.4	14.3	15.6	16.9	17.3
11.5	10°	12.5	12.8	12.8	12.5	12.5	13.0	13.8	15.6	17.3	17.9
10.4	12.5°	11.7	12.1	11.9	11.9	11.9	12.3	13.4	15.3	17.7	18.6
9.3	15°	10.8	11.5	11.5	11.2	11.2	11.5	13.0	15.1	18.4	19.9
8.0	17.5°	9.9	10.6	10.8	10.4	10.4	10.8	12.3	15.1	18.8	21.4
6.5	20°	8.2	9.3	9.9	9.3	9.3	9.7	11.2	14.3	19.0	22.9
4.8	22.5°	6.5	7.6	8.4	8.2	8.2	8.4	10.4	13.6	19.2	25.5
2.8	25°	4.8	5.8	6.5	6.9	6.9	7.6	9.5	13.2	20.1	30.9
1.3	27.5°	2.8	4.1	5.0	5.4	5.6	6.5	8.9	12.8	21.6	38.7
0.0	30°	1.3	2.4	3.5	4.3	4.3	5.8	8.2	12.3	23.6	49.9
0.0	32.5°	0.0	1.1	1.7	3.0	3.2	4.8	7.6	11.9	26.4	60.7
0.0	35°	0.0	0.0	0.9	2.4	2.4	3.9	6.9	11.5	30.7	69.0
0.0	37.5°	0.0	0.0	0.0	1.7	1.9	3.5	6.7	11.2	31.6	69.6
0.0	40°	0.0	0.0	0.0	1.3	1.5	3.2	6.7	11.5	28.5	68.1
0.0	42.5°	0.0	0.0	0.0	0.9	1.1	3.2	6.7	11.9	25.7	69.8
0.0	45°	0.0	0.0	0.0	0.6	0.9	3.5	6.5	11.7	24.2	78.9
0.0	47.5°	0.0	0.0	0.0	0.9	1.3	3.5	6.3	11.5	24.4	109.0
0.0	50°	0.0	0.0	0.0	1.1	1.5	3.5	6.5	11.0	26.8	167.5
0.0	52.5°	0.0	0.0	0.0	0.9	1.3	3.9	7.1	10.8	29.2	217.9
0.0	55°	0.0	0.0	0.0	0.2	0.6	5.0	7.8	10.8	32.9	230.4
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	5.6	8.9	11.5	38.9	225.5
0.0	58°	0.0	0.0	0.0	0.0	0.0	5.6	9.1	11.5	39.3	221.2
0.0	60°	0.0	0.0	0.0	0.0	0.0	5.6	9.9	12.8	42.4	196.9
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	4.8	11.9	16.0	44.1	154.8
0.0	65°	0.0	0.0	0.0	0.0	0.0	3.9	14.1	17.5	45.4	123.2
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	3.7	14.5	17.7	46.0	98.1
0.0	70°	0.0	0.0	0.0	0.0	0.0	3.9	14.3	19.0	48.2	79.8
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	4.3	13.0	21.0	48.2	70.7
0.0	75°	0.0	0.0	0.0	0.0	0.0	4.5	12.1	23.6	43.9	61.2
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	4.3	11.9	27.5	39.1	50.4
0.0	80°	0.4	0.6	0.6	0.4	0.4	3.7	11.7	27.9	33.3	34.6
0.2	82.5°	1.3	1.7	1.5	1.1	1.1	3.2	10.4	23.3	17.3	14.9
1.3	85°	2.4	2.8	2.8	2.4	2.4	3.0	6.5	8.4	5.8	4.8
2.4	87.5°	3.2	3.7	3.7	3.2	3.2	3.0	2.8	2.6	2.4	2.4
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: SP1-2407-184-8

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-827-U-5WQ

Data in this report applies to families of products including GSS-SB1A-827-U-5WQ

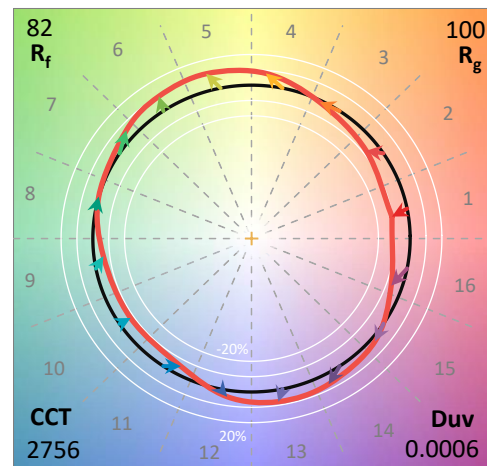
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-8
 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-827-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K): 2756
 CIE u' : 0.2599
 CIE v' : 0.5271
 Duv: 0.0006
 CIE x: 0.4563
 CIE y: 0.4112
 CIE z: 0.1325
 Peak Wavelength (nm): 609
 Dominant Wavelength (nm): 583
 Purity: 60.41121
 Rf: 82.2
 Rg: 99.9

CRI (Ra): 82.9
 R1: 81.6
 R2: 88.8
 R3: 96.0
 R4: 83.4
 R5: 81.4
 R6: 87.0
 R7: 84.0
 R8: 60.8
 R9: 10.8
 R10: 74.8
 R11: 84.3
 R12: 72.1
 R13: 82.9
 R14: 97.3
 R15: 73.7



Test Conditions

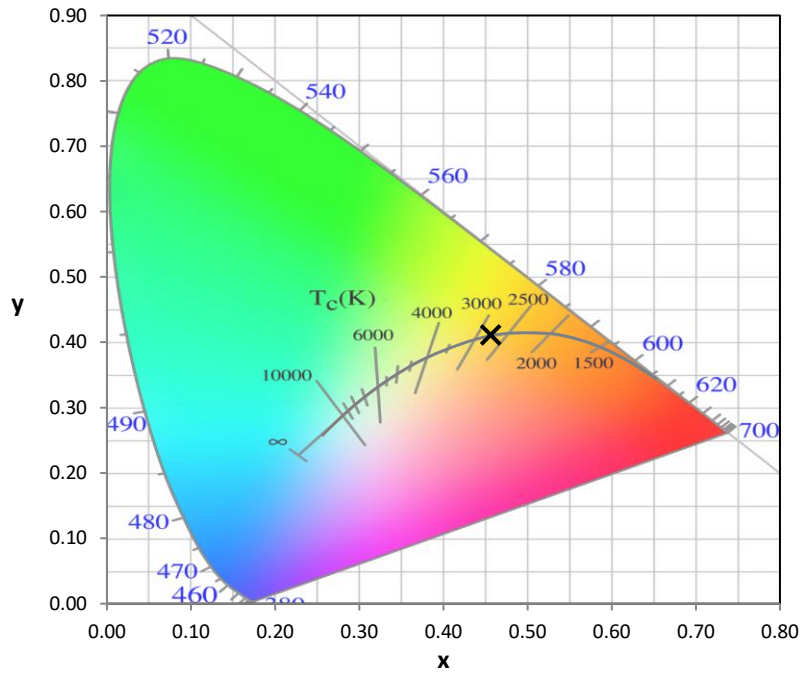
Stabilization Time: 29M
 Operation Time: 1H 29M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-8

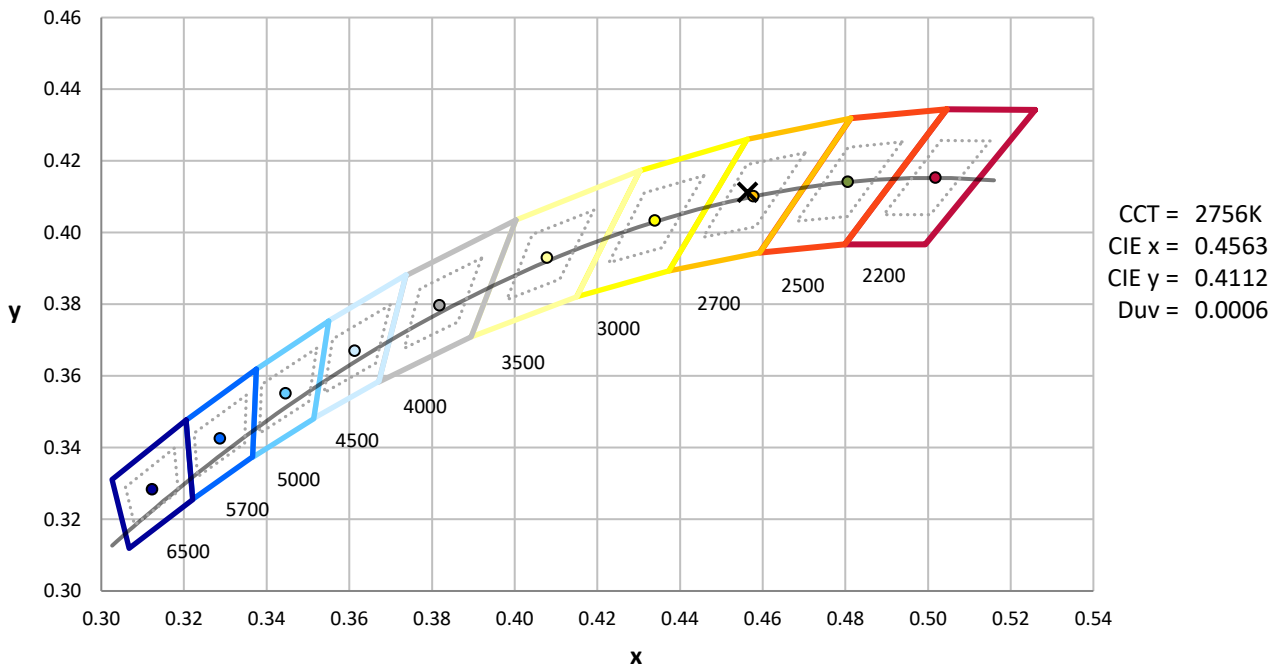
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-8

CIE 1931 Chromaticity Diagram



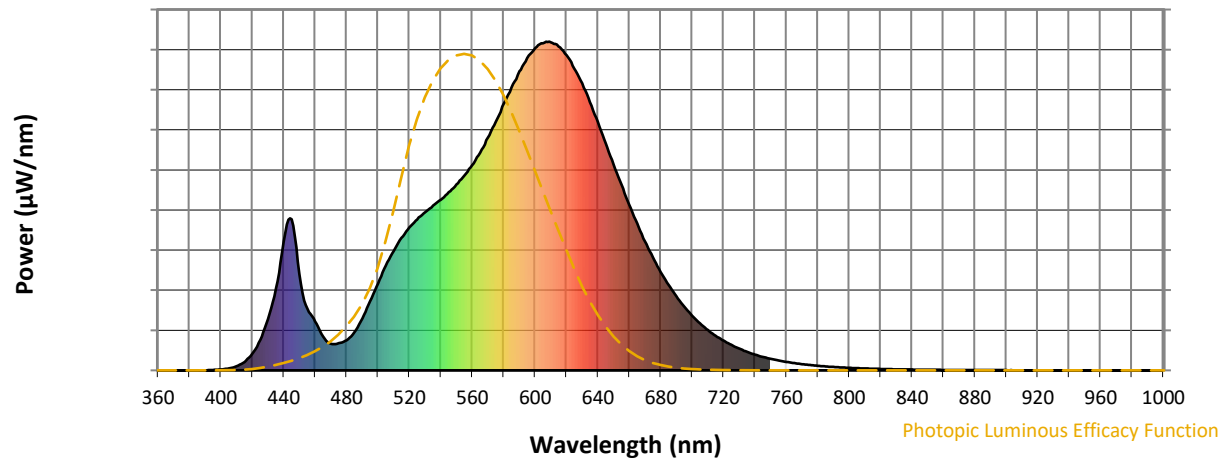
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-8

Photopic Flux vs. Wavelength

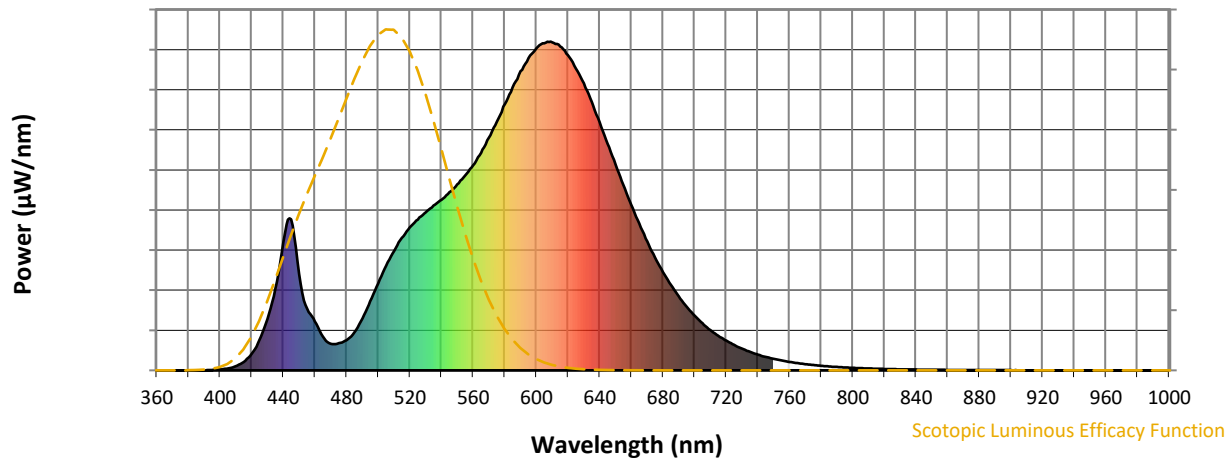


Photopic Lumens: NR

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

Scotopic Flux vs. Wavelength



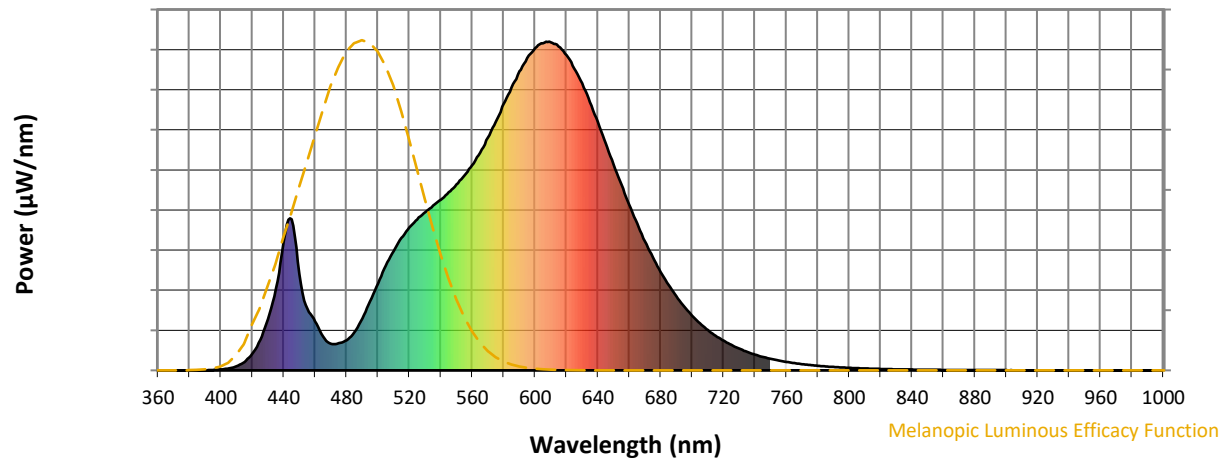
Scotopic Lumens: NR

S/P: 1.2

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.16

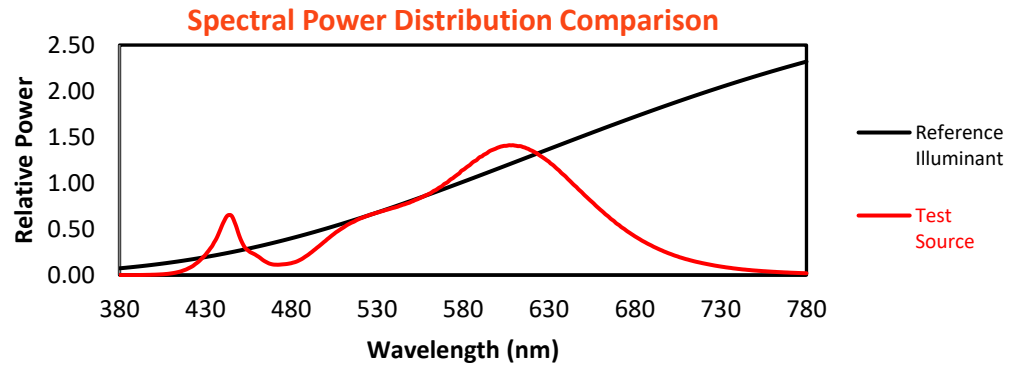
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

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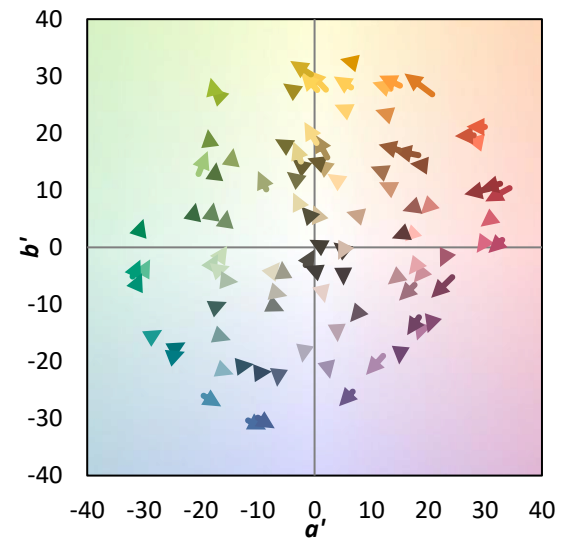
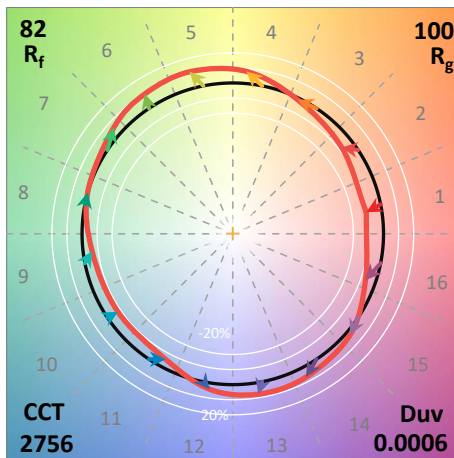
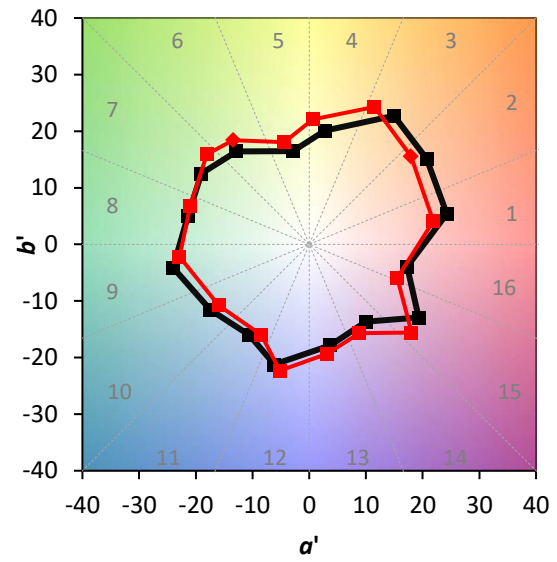
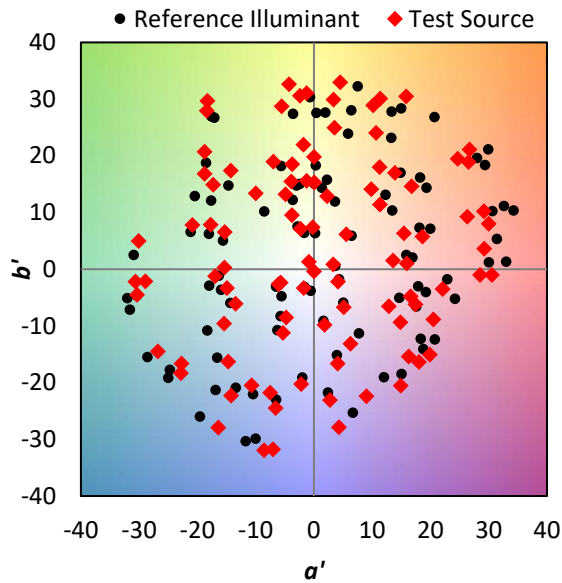
TM-30-18

Summary

$R_f = 82.2$
 $R_g = 99.9$
 $CIE R_a = 82.9$
 $R_9 = 10.8$

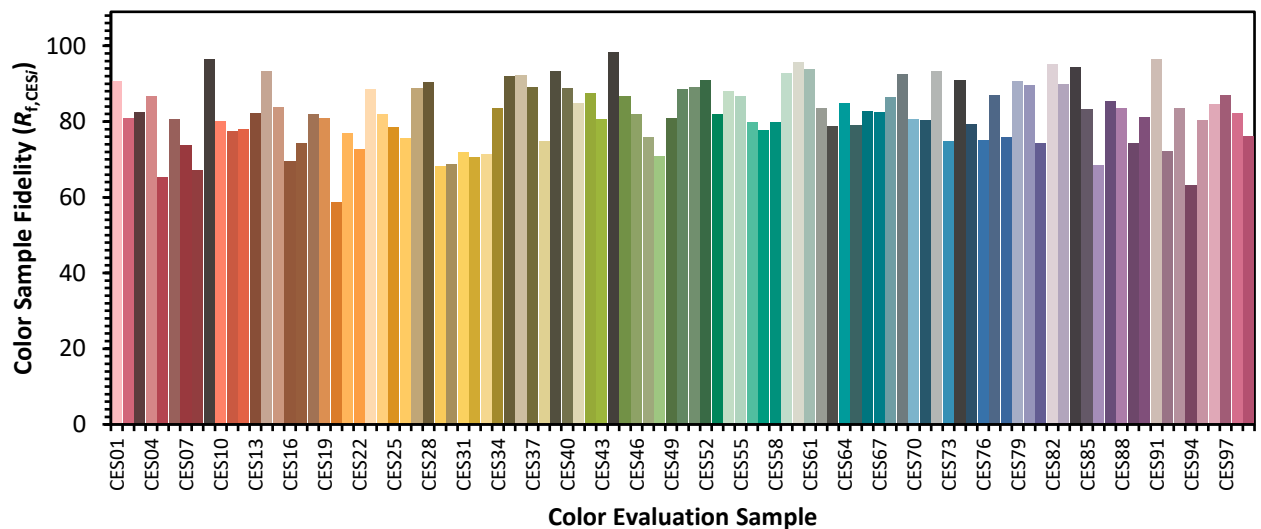


Color Vector Graphics

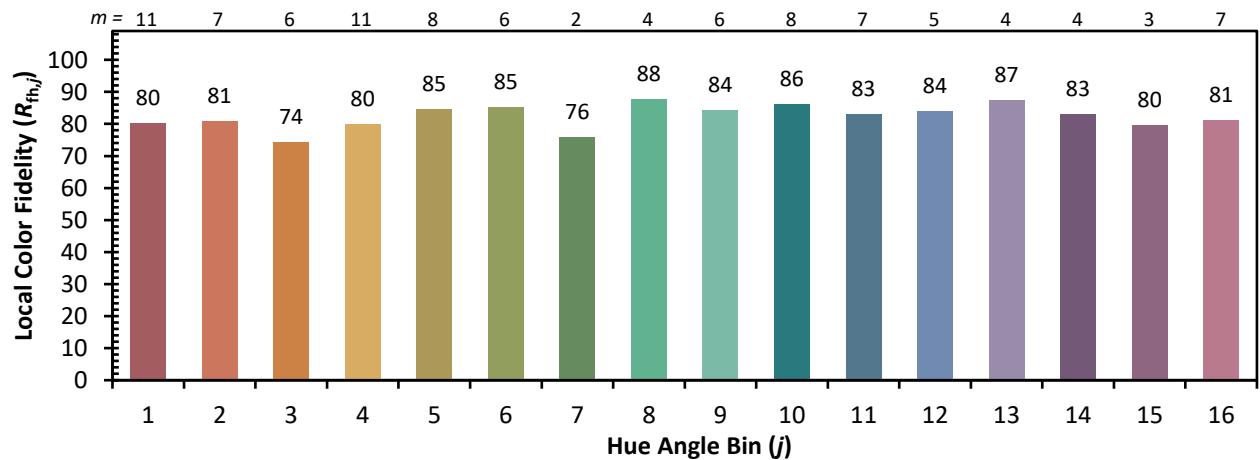
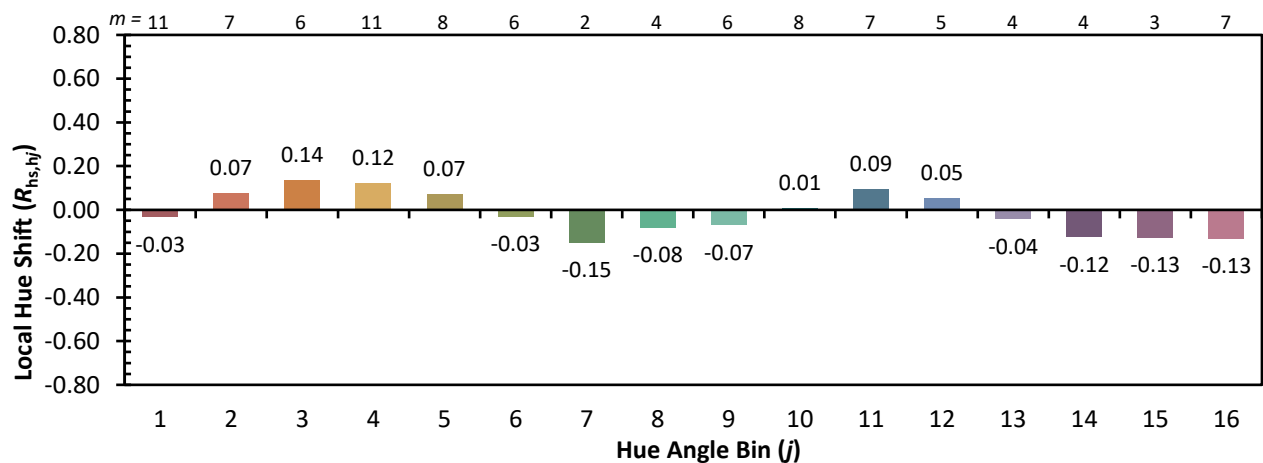
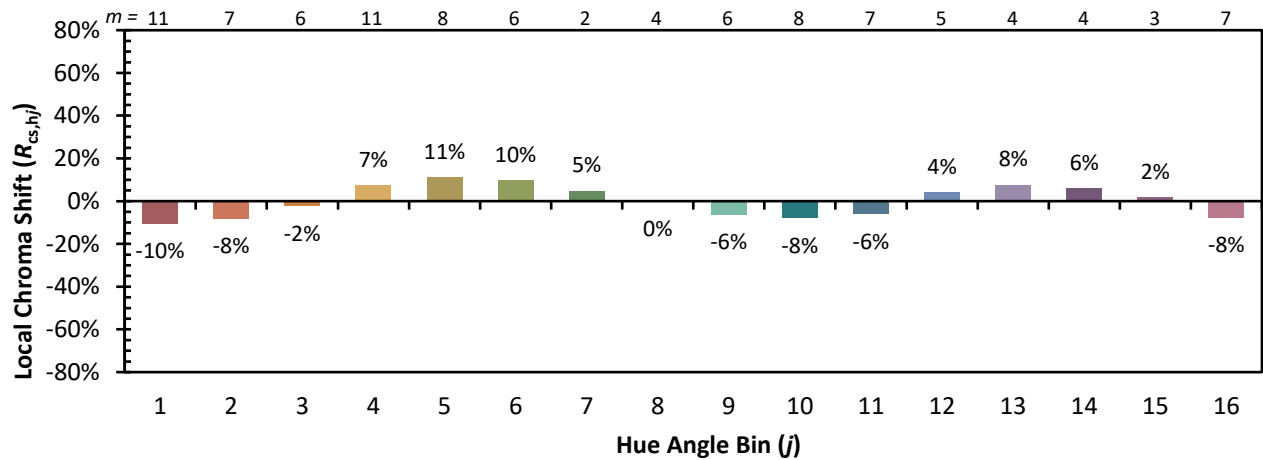


Individual Sample Fidelity Index ($R_{f,i}$)

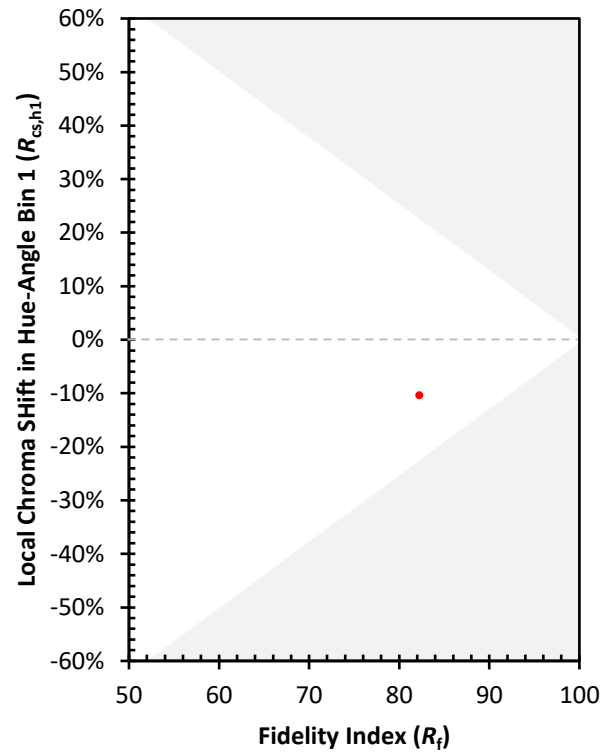
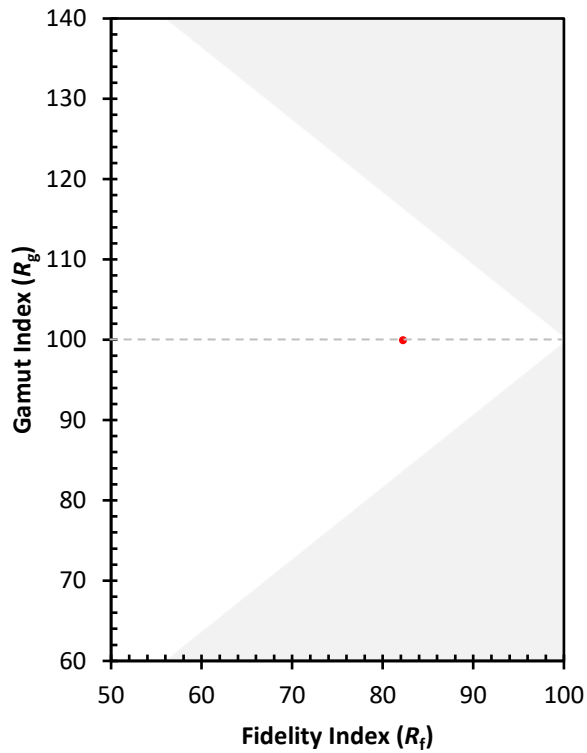
CES01 = 86	CES26 = 76	CES51 = 89	CES76 = 75
CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82 = 95
CES08 = 42	CES33 = 71	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 84	CES59 = 93	CES84 = 94
CES10 = 77	CES35 = 92	CES60 = 96	CES85 = 83
CES11 = 59	CES36 = 92	CES61 = 94	CES86 = 69
CES12 = 66	CES37 = 89	CES62 = 84	CES87 = 85
CES13 = 44	CES38 = 75	CES63 = 79	CES88 = 84
CES14 = 74	CES39 = 93	CES64 = 85	CES89 = 74
CES15 = 72	CES40 = 89	CES65 = 79	CES90 = 81
CES16 = 48	CES41 = 85	CES66 = 83	CES91 = 96
CES17 = 50	CES42 = 88	CES67 = 82	CES92 = 72
CES18 = 57	CES43 = 81	CES68 = 86	CES93 = 84
CES19 = 73	CES44 = 98	CES69 = 92	CES94 = 63
CES20 = 67	CES45 = 87	CES70 = 81	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 81	CES96 = 85
CES22 = 79	CES47 = 76	CES72 = 93	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 75	CES98 = 82
CES24 = 91	CES49 = 81	CES74 = 91	CES99 = 76
CES25 = 72	CES50 = 88	CES75 = 79	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)