

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: P1049609

Luminaire Tested: **GALN-SA2A-735-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049609
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-735-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 2xLight Square PACKAGE
70CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

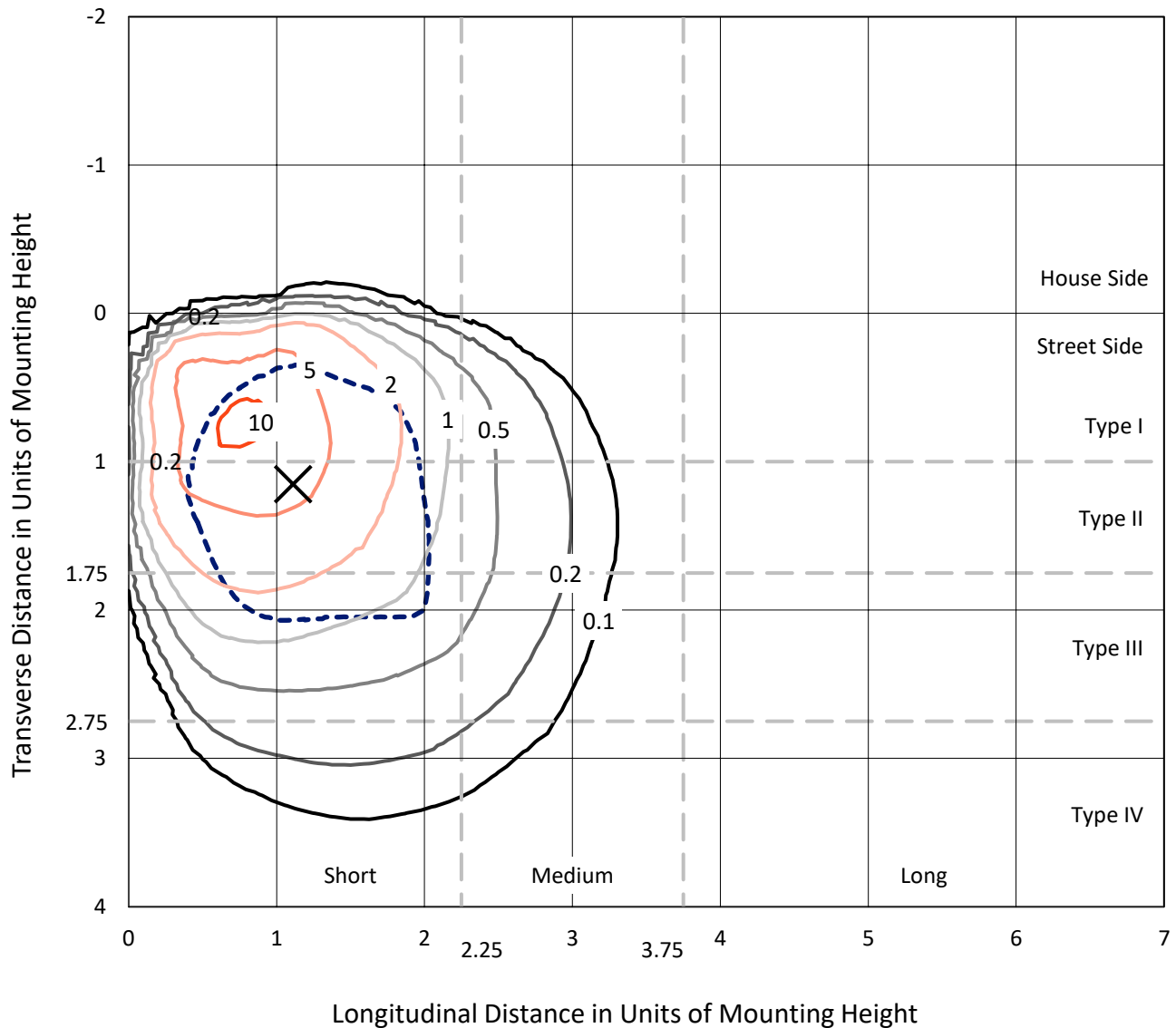
Lumens per Lamp: N/A
Luminaire Lumens: 6566 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 55.8
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

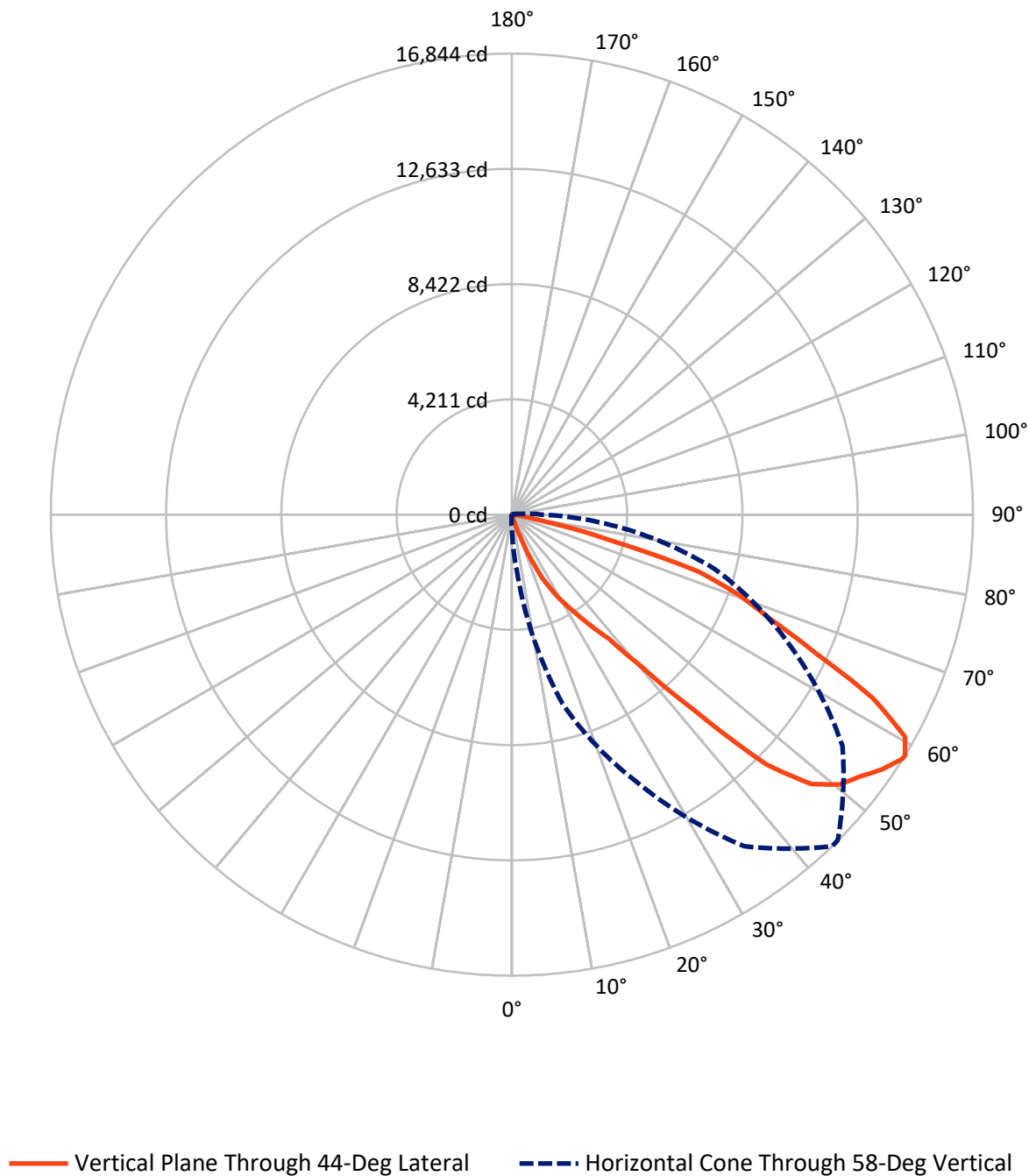


Based on 20 foot mounting height. Maximum calculated value = 11.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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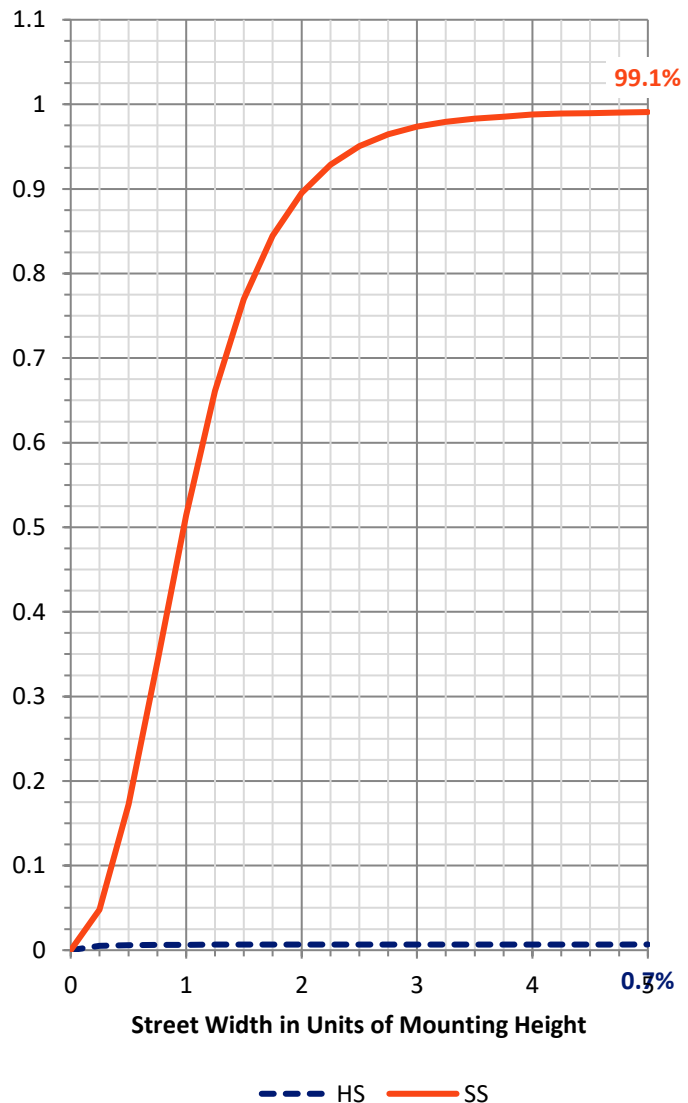
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	44.8	0.0	44.8
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	6521.2	0.0	6521.2
	% Fixture	99.3	0.0	99.3
Total	Lumens	6566.0	0.0	6566.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.6	0.0
10°-20°	14.4	0.2
20°-30°	155.5	2.4
30°-40°	460.0	7.0
40°-50°	1371.1	20.9
50°-60°	2175.6	33.1
60°-70°	1814.7	27.6
70°-80°	559.7	8.5
80°-90°	12.4	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°	6566.0	100.0
0°-180°	6566.0	100.0



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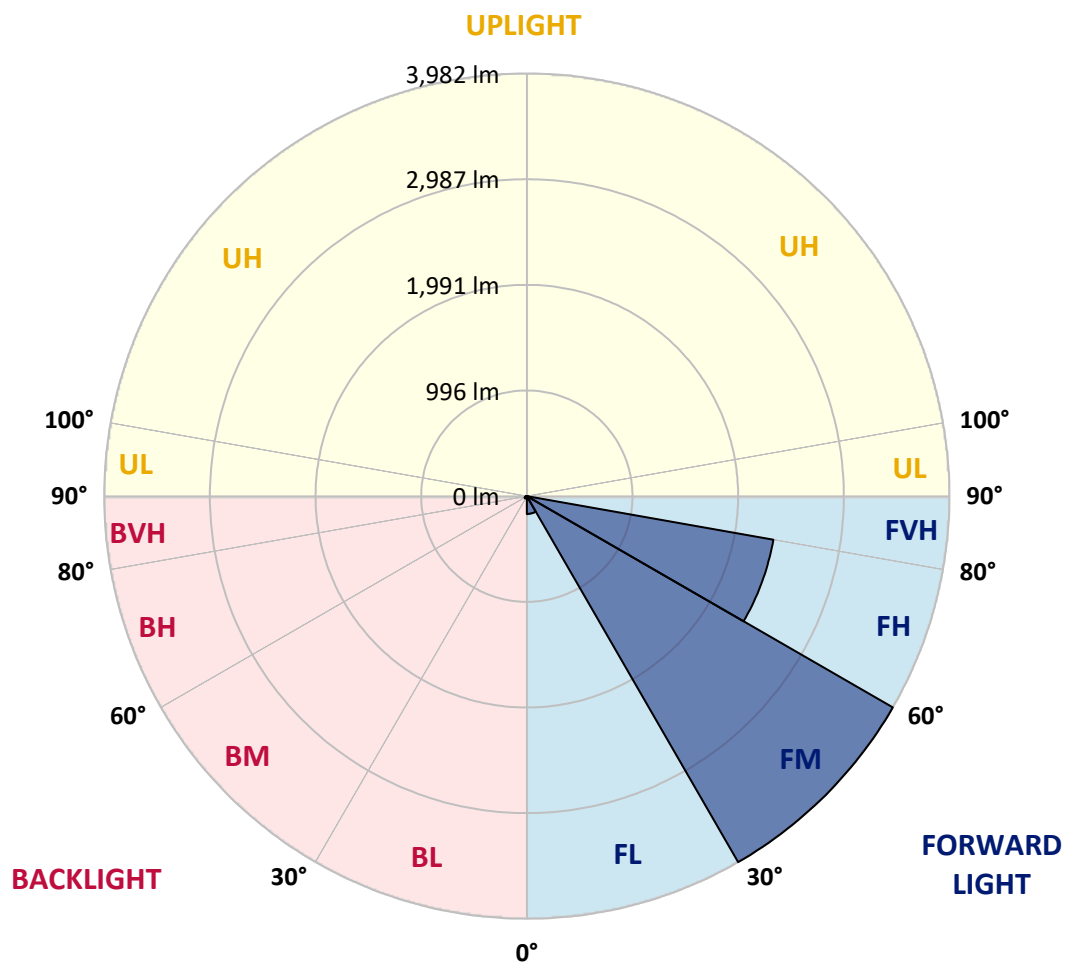
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	168.1	2.6			
FM	(30°-60°)	3982.1	60.6			
FH	(60°-80°)	2359.1	35.9			G2/5000
FVH	(80°-90°)	11.8	0.2			G1/100
BL	(0°-30°)	4.4	0.1	B0/110		
BM	(30°-60°)	24.5	0.4	B0/220		
BH	(60°-80°)	15.3	0.2	B0/110		G0/110
BVH	(80°-90°)	0.6	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
2.5°	37.2	37.2	35.7	33.7	31.7	29.8	29.3	28.3	27.8	27.3
5°	38.7	38.7	38.2	36.7	34.7	33.2	33.2	31.7	30.8	29.8
7.5°	39.7	40.2	41.2	40.7	39.7	38.2	38.2	37.2	35.7	33.2
10°	41.2	42.7	44.6	45.6	46.1	46.1	45.6	45.1	42.7	39.2
12.5°	42.7	45.6	50.6	55.6	58.5	62.5	62.0	61.0	54.6	47.1
15°	45.6	50.1	60.5	74.9	97.2	111.1	116.6	111.6	90.3	63.5
17.5°	49.1	56.5	87.8	156.7	256.9	304.5	333.3	310.0	205.3	120.5
20°	52.6	68.9	163.2	406.2	666.6	822.4	865.5	798.1	512.4	229.7
22.5°	58.5	96.7	330.8	839.7	1436.4	1670.1	1714.2	1498.4	967.7	453.3
25°	70.9	140.4	570.4	1368.5	2143.7	2538.1	2519.7	2237.0	1569.9	724.2
27.5°	88.8	204.4	862.6	1944.3	2821.3	3169.0	3210.6	2861.0	2092.7	1064.9
30°	114.6	283.2	1176.0	2405.6	3364.4	3740.4	3747.3	3385.7	2560.4	1364.0
32.5°	139.4	357.6	1450.3	2851.5	3899.6	4311.8	4342.5	3897.6	2909.6	1675.5
35°	158.2	406.2	1728.1	3243.4	4439.3	5007.2	5005.2	4477.0	3323.2	1953.8
37.5°	159.7	454.8	1979.6	3644.2	5122.8	5758.6	5821.6	5239.3	3823.2	2298.0
40°	156.2	509.4	2298.0	4269.1	6354.3	7330.0	7385.5	6651.4	4826.1	2887.3
42.5°	160.2	604.1	2814.8	5423.3	8399.4	9800.6	9907.7	9135.9	6669.8	4089.6
45°	181.0	782.2	3897.6	7354.3	11314.4	13022.6	12986.9	11875.4	8815.0	5919.8
47.5°	250.0	1218.2	5502.7	9233.7	13177.4	14698.7	14729.4	13370.8	10066.9	7327.0
50°	384.4	1864.0	6851.3	10227.2	13978.5	15504.7	15475.9	13906.0	10542.6	8019.9
52.5°	500.0	2331.2	7527.9	10575.8	14081.1	15903.0	15901.0	14046.9	10616.5	8079.4
55°	528.7	2366.4	7533.3	10594.7	14311.3	16424.3	16489.7	14393.6	10712.3	7819.5
57.5°	517.3	2095.1	7218.9	10703.8	14721.0	16827.5	16831.0	14729.4	10955.3	7660.3
58°	507.4	2052.5	7155.4	10765.8	14791.4	16844.4	16835.9	14744.8	11153.2	7654.4
60°	451.9	1782.2	6907.9	10924.0	14686.8	16498.2	16419.3	14409.0	11123.9	7593.4
62.5°	355.1	1390.3	6664.3	10741.0	13564.8	14822.2	14854.9	12756.8	10140.9	7237.7
65°	282.7	1036.2	6156.4	9421.6	11170.1	12172.0	12294.0	10373.5	8464.4	6128.7
67.5°	225.2	749.0	5164.4	7501.1	8838.8	10158.7	10247.5	8709.4	6557.7	4695.7
70°	183.0	506.4	3564.8	5485.8	7290.3	8774.4	8779.8	7235.2	4894.6	3076.7
72.5°	162.2	350.7	2069.3	4000.8	5911.4	7149.9	7005.6	5871.2	3761.7	1822.3
75°	140.4	232.6	1014.8	2445.8	3584.1	3608.4	3663.5	2723.6	1880.4	866.5
77.5°	115.6	165.2	399.8	668.1	1074.8	1375.9	1427.0	1081.3	625.5	213.3
80°	79.4	78.4	107.6	204.9	307.5	385.4	359.6	278.3	163.7	81.8
82.5°	34.2	37.2	48.6	58.5	47.6	46.1	44.1	28.3	21.8	16.9
85°	10.9	9.9	10.4	10.4	8.4	6.4	6.4	3.0	0.0	0.0
87.5°	5.5	4.5	4.5	4.0	2.5	1.0	0.5	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°
28.8	0°	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
26.8	2.5°	26.3	26.3	25.3	24.3	23.8	22.8	22.3	21.8	21.3	20.8
28.8	5°	27.8	27.3	25.8	24.3	22.8	21.3	20.3	19.3	18.4	17.9
31.7	7.5°	30.3	29.3	26.3	23.8	21.8	19.8	18.8	17.4	16.4	14.9
35.2	10°	33.2	31.2	27.3	24.3	21.3	18.8	17.4	15.9	14.4	12.4
40.2	12.5°	37.2	33.7	28.8	23.8	20.3	17.4	15.9	13.9	12.4	10.9
46.6	15°	40.7	36.2	29.3	23.8	19.3	15.9	13.9	11.9	10.4	8.4
58.5	17.5°	45.6	38.2	28.8	22.3	17.9	13.9	11.9	10.4	7.9	5.0
86.8	20°	54.1	39.7	27.8	20.8	15.4	11.4	8.9	6.9	3.5	1.0
130.4	22.5°	67.5	43.6	26.8	18.8	13.4	8.9	6.0	2.5	0.0	0.0
198.4	25°	93.2	50.6	26.8	17.9	11.9	6.4	2.0	0.0	0.0	0.0
281.7	27.5°	124.0	60.0	26.8	15.4	9.4	3.5	0.0	0.0	0.0	0.0
383.9	30°	155.3	70.4	26.8	13.4	7.4	0.5	0.0	0.0	0.0	0.0
472.7	32.5°	185.0	79.4	27.3	11.4	5.0	0.0	0.0	0.0	0.0	0.0
595.7	35°	215.3	80.8	26.8	9.9	3.0	0.0	0.0	0.0	0.0	0.0
746.5	37.5°	254.0	77.9	25.3	8.9	1.5	0.0	0.0	0.0	0.0	0.0
982.1	40°	312.5	79.4	23.8	8.4	0.5	0.0	0.0	0.0	0.0	0.0
1402.2	42.5°	420.6	85.8	21.8	8.4	0.0	0.0	0.0	0.0	0.0	0.0
2233.5	45°	727.1	115.1	19.8	8.9	0.0	0.0	0.0	0.0	0.0	0.0
3353.0	47.5°	1202.8	206.8	19.3	8.9	0.0	0.0	0.0	0.0	0.0	0.0
4039.0	50°	1535.1	260.4	20.3	9.4	0.0	0.0	0.0	0.0	0.0	0.0
4124.8	52.5°	1532.7	290.2	21.3	9.9	2.0	0.0	0.0	0.0	0.0	0.0
3801.9	55°	1362.5	295.6	22.8	10.9	6.4	0.0	0.0	0.0	0.0	0.0
3267.2	57.5°	1138.8	269.8	26.3	13.4	11.9	0.0	0.0	0.0	0.0	0.0
3183.4	58°	1099.2	257.9	27.3	13.9	12.9	0.0	0.0	0.0	0.0	0.0
2761.3	60°	900.7	210.3	34.7	17.4	17.4	0.0	0.0	0.0	0.0	0.0
2263.8	62.5°	622.0	183.5	39.7	22.3	17.9	0.0	0.0	0.0	0.0	0.0
1669.1	65°	440.0	165.7	43.2	23.8	14.4	0.0	0.0	0.0	0.0	0.0
1186.0	67.5°	328.9	152.8	47.6	24.3	7.4	0.0	0.0	0.0	0.0	0.0
744.0	70°	252.0	143.3	58.5	25.8	2.0	0.0	0.0	0.0	0.0	0.0
443.4	72.5°	205.3	132.4	70.9	26.8	0.0	0.0	0.0	0.0	0.0	0.0
265.9	75°	170.1	119.5	68.4	29.3	0.0	0.0	0.0	0.0	0.0	0.0
141.9	77.5°	113.1	92.8	62.5	29.3	0.0	0.0	0.0	0.0	0.0	0.0
50.6	80°	39.7	36.7	48.6	25.8	0.0	0.0	0.0	0.0	0.0	0.0
10.4	82.5°	6.0	5.0	6.9	8.9	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°
28.8	0°	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
20.3	2.5°	20.3	20.3	19.8	20.3	20.3	21.3	23.8	27.3	31.2	32.7
17.4	5°	16.9	16.4	15.9	15.9	15.9	17.4	19.3	23.3	27.8	29.8
14.4	7.5°	13.9	13.4	12.9	12.4	12.4	13.4	15.9	20.3	24.8	26.8
11.9	10°	11.4	10.4	9.9	9.4	9.4	10.4	12.9	17.4	22.3	24.3
9.9	12.5°	9.4	7.9	6.9	6.4	6.0	7.4	9.9	13.9	19.3	21.8
7.4	15°	6.4	5.0	3.5	3.0	2.5	4.0	6.4	10.9	16.4	19.3
4.0	17.5°	3.5	1.5	0.5	0.0	0.0	1.0	3.0	7.9	13.4	15.9
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	9.9	12.4
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	6.0	8.4
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	4.5
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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	1.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.0
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):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
28.8	0°	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
34.2	2.5°	35.2	34.7	33.7	32.7	32.7	32.7	34.2	35.7	37.2	37.2
30.8	5°	32.7	32.7	32.2	31.2	31.2	31.7	33.7	36.2	38.2	38.7
28.3	7.5°	30.3	31.2	30.3	29.8	30.3	30.8	32.7	35.7	38.7	39.7
26.3	10°	28.8	29.3	29.3	28.8	28.8	29.8	31.7	35.7	39.7	41.2
23.8	12.5°	26.8	27.8	27.3	27.3	27.3	28.3	30.8	35.2	40.7	42.7
21.3	15°	24.8	26.3	26.3	25.8	25.8	26.3	29.8	34.7	42.2	45.6
18.4	17.5°	22.8	24.3	24.8	23.8	23.8	24.8	28.3	34.7	43.2	49.1
14.9	20°	18.8	21.3	22.8	21.3	21.3	22.3	25.8	32.7	43.6	52.6
10.9	22.5°	14.9	17.4	19.3	18.8	18.8	19.3	23.8	31.2	44.1	58.5
6.4	25°	10.9	13.4	14.9	15.9	15.9	17.4	21.8	30.3	46.1	70.9
3.0	27.5°	6.4	9.4	11.4	12.4	12.9	14.9	20.3	29.3	49.6	88.8
0.0	30°	3.0	5.5	7.9	9.9	9.9	13.4	18.8	28.3	54.1	114.6
0.0	32.5°	0.0	2.5	4.0	6.9	7.4	10.9	17.4	27.3	60.5	139.4
0.0	35°	0.0	0.0	2.0	5.5	5.5	8.9	15.9	26.3	70.4	158.2
0.0	37.5°	0.0	0.0	0.0	4.0	4.5	7.9	15.4	25.8	72.4	159.7
0.0	40°	0.0	0.0	0.0	3.0	3.5	7.4	15.4	26.3	65.5	156.2
0.0	42.5°	0.0	0.0	0.0	2.0	2.5	7.4	15.4	27.3	59.0	160.2
0.0	45°	0.0	0.0	0.0	1.5	2.0	7.9	14.9	26.8	55.6	181.0
0.0	47.5°	0.0	0.0	0.0	2.0	3.0	7.9	14.4	26.3	56.0	250.0
0.0	50°	0.0	0.0	0.0	2.5	3.5	7.9	14.9	25.3	61.5	384.4
0.0	52.5°	0.0	0.0	0.0	2.0	3.0	8.9	16.4	24.8	67.0	500.0
0.0	55°	0.0	0.0	0.0	0.5	1.5	11.4	17.9	24.8	75.4	528.7
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	12.9	20.3	26.3	89.3	517.3
0.0	58°	0.0	0.0	0.0	0.0	0.0	12.9	20.8	26.3	90.3	507.4
0.0	60°	0.0	0.0	0.0	0.0	0.0	12.9	22.8	29.3	97.2	451.9
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	10.9	27.3	36.7	101.2	355.1
0.0	65°	0.0	0.0	0.0	0.0	0.0	8.9	32.2	40.2	104.2	282.7
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	8.4	33.2	40.7	105.6	225.2
0.0	70°	0.0	0.0	0.0	0.0	0.0	8.9	32.7	43.6	110.6	183.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	9.9	29.8	48.1	110.6	162.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	10.4	27.8	54.1	100.7	140.4
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	9.9	27.3	63.0	89.8	115.6
0.0	80°	1.0	1.5	1.5	1.0	1.0	8.4	26.8	64.0	76.4	79.4
0.5	82.5°	3.0	4.0	3.5	2.5	2.5	7.4	23.8	53.6	39.7	34.2
3.0	85°	5.5	6.4	6.4	5.5	5.5	6.9	14.9	19.3	13.4	10.9
5.5	87.5°	7.4	8.4	8.4	7.4	7.4	6.9	6.4	6.0	5.5	5.5
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: SP1-2407-184-5

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-735-U-5WQ

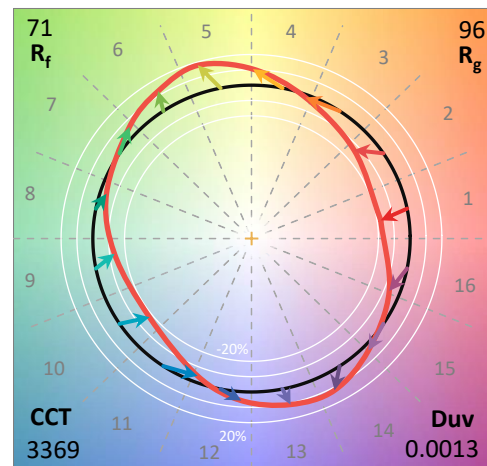
Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-5
 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-735-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 3500K CCT 26 LEDS

Spectral Parameters

CCT (K):	3369	CRI (Ra):	70.1		
CIE u':	0.2386	R1:	66.6	R9:	-40.2
CIE v':	0.5156	R2:	77.6	R10:	49.1
Duv:	0.0013	R3:	88.5	R11:	66.3
CIE x:	0.4143	R4:	69.5	R12:	45.7
CIE y:	0.3980	R5:	66.4	R13:	68.0
CIE z:	0.1877	R6:	69.6	R14:	93.4
Peak Wavelength (nm):	590	R7:	77.5	R15:	57.6
Dominant Wavelength (nm):	580	R8:	44.9		
Purity:	43.80166				
Rf:	71.4				
Rg:	96				



Test Conditions

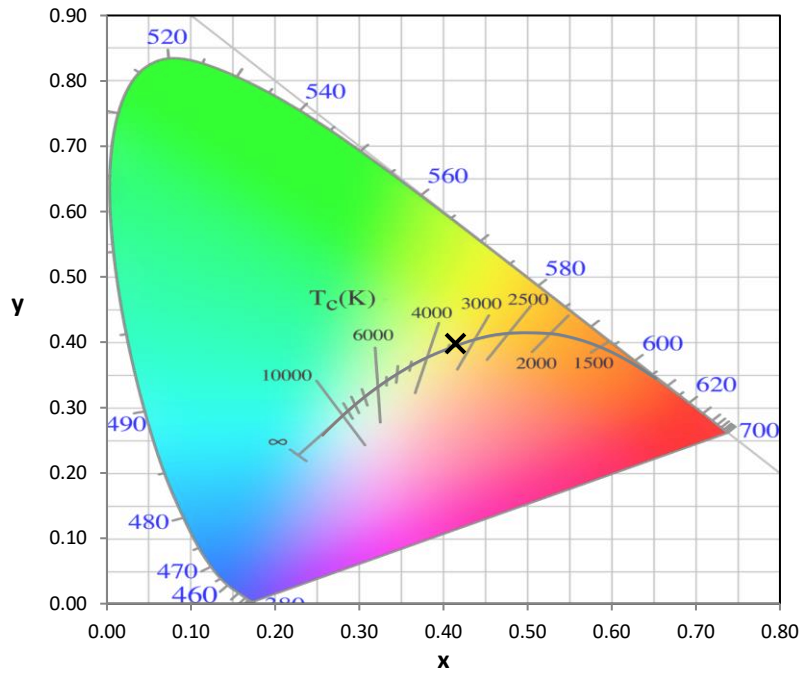
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-5

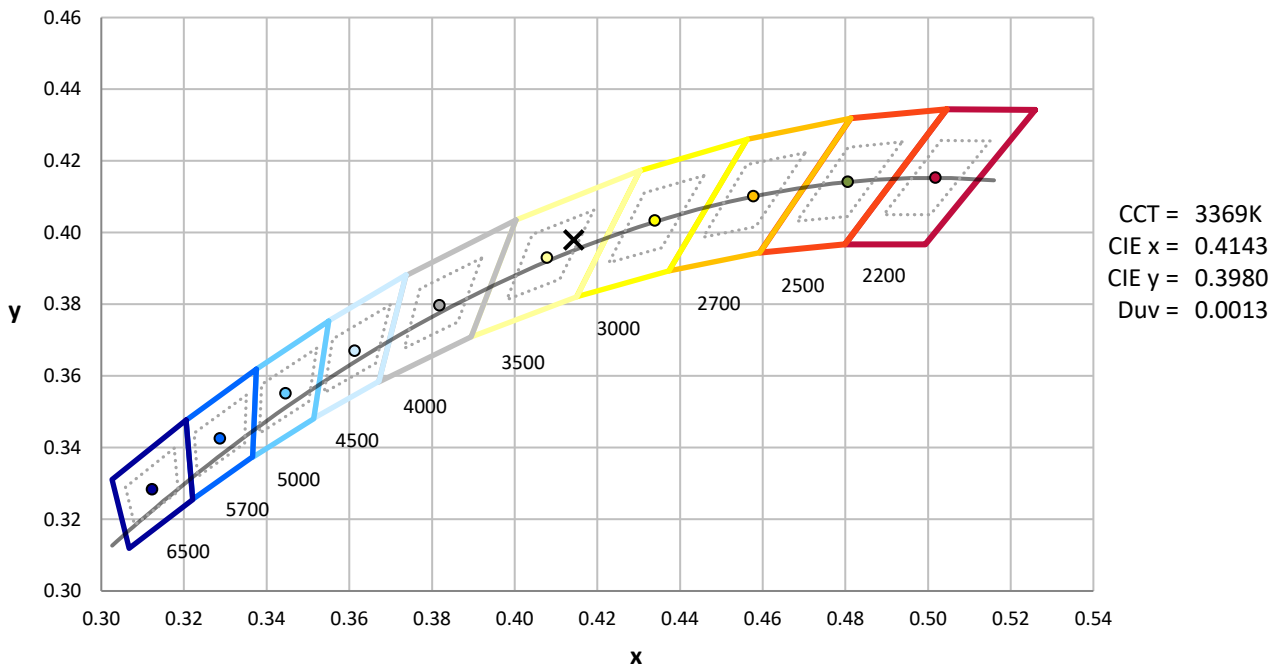
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



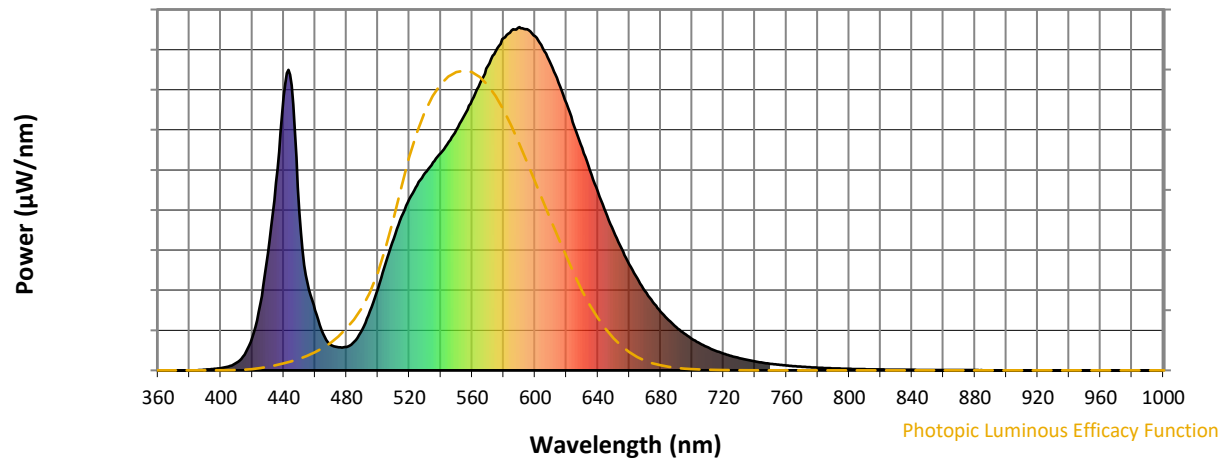
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

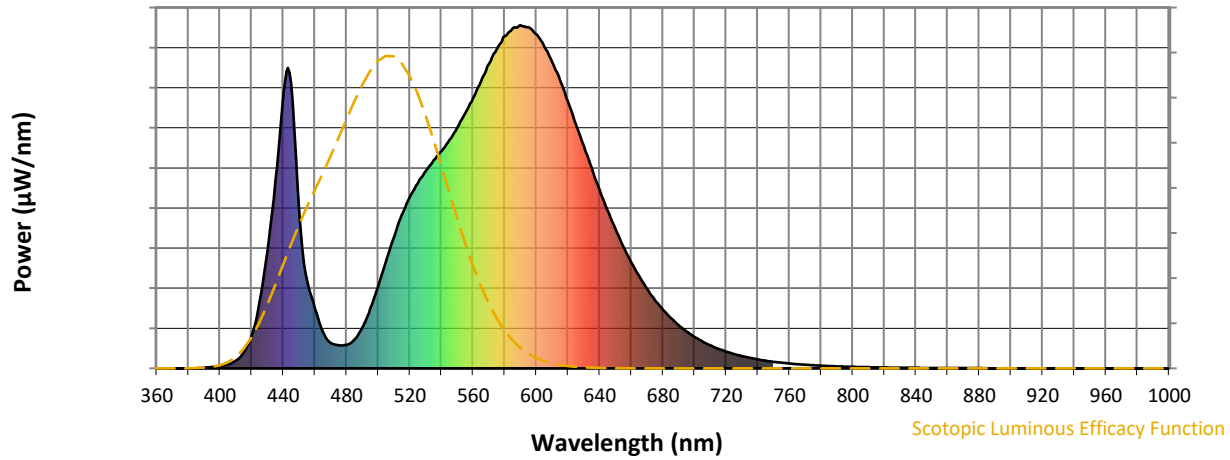


Photopic Lumens: NR

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

Scotopic Flux vs. Wavelength



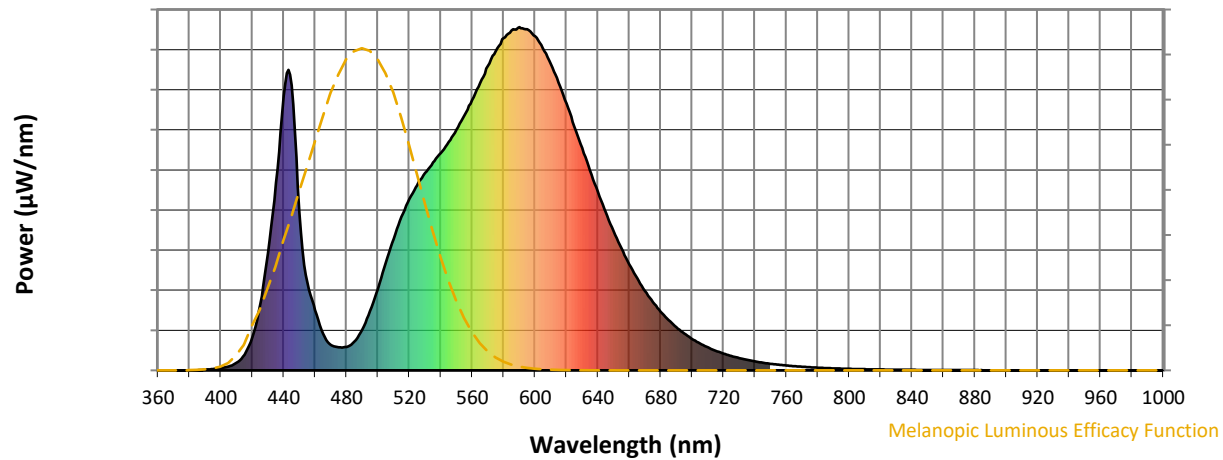
Scotopic Lumens: NR

S/P: 1.29

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.36

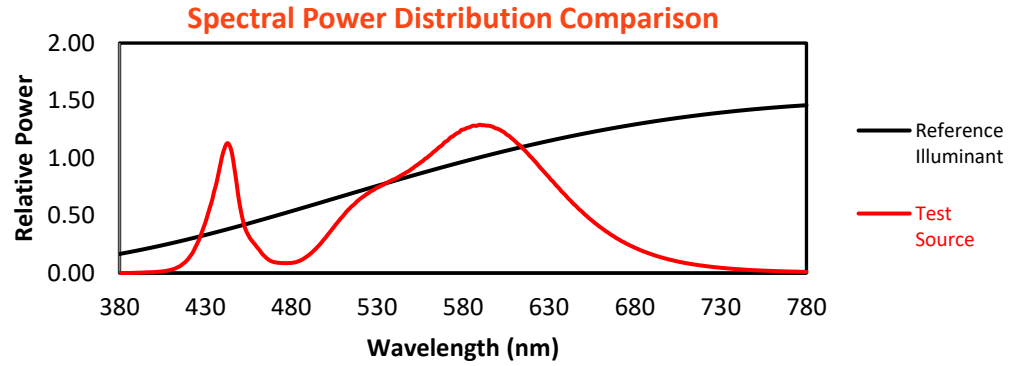
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

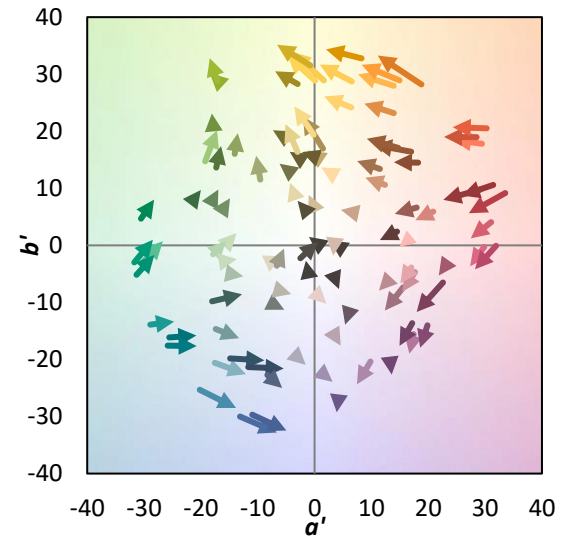
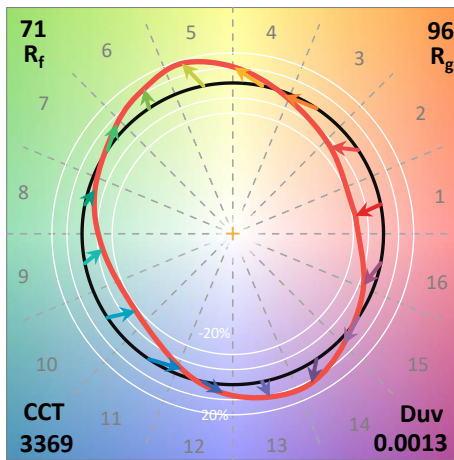
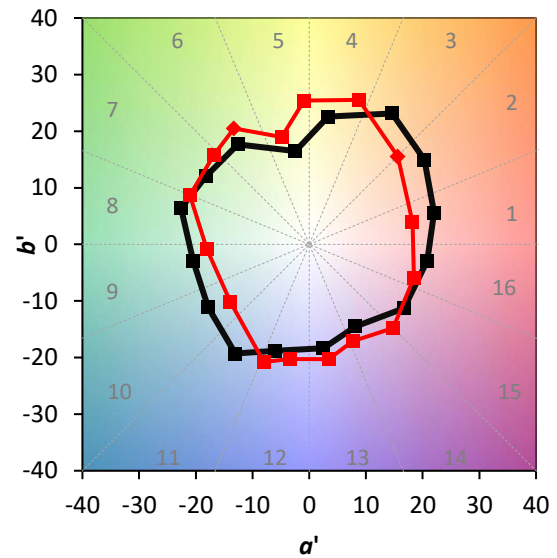
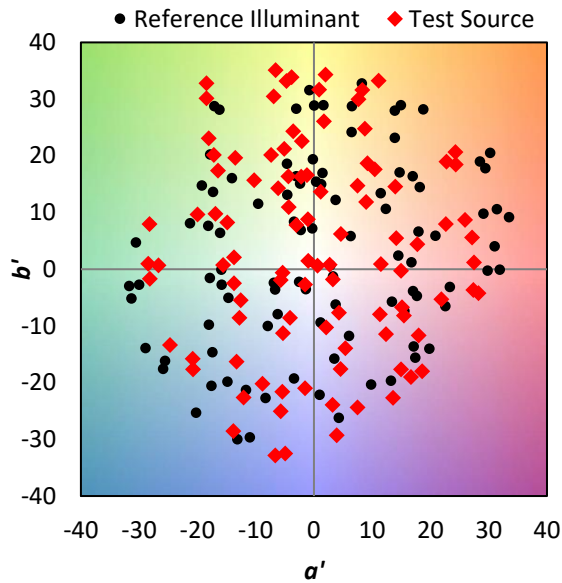
TM-30-18

Summary

$R_f = 71.4$
 $R_g = 96$
 $CIE R_a = 70.1$
 $R_g = -40.2$

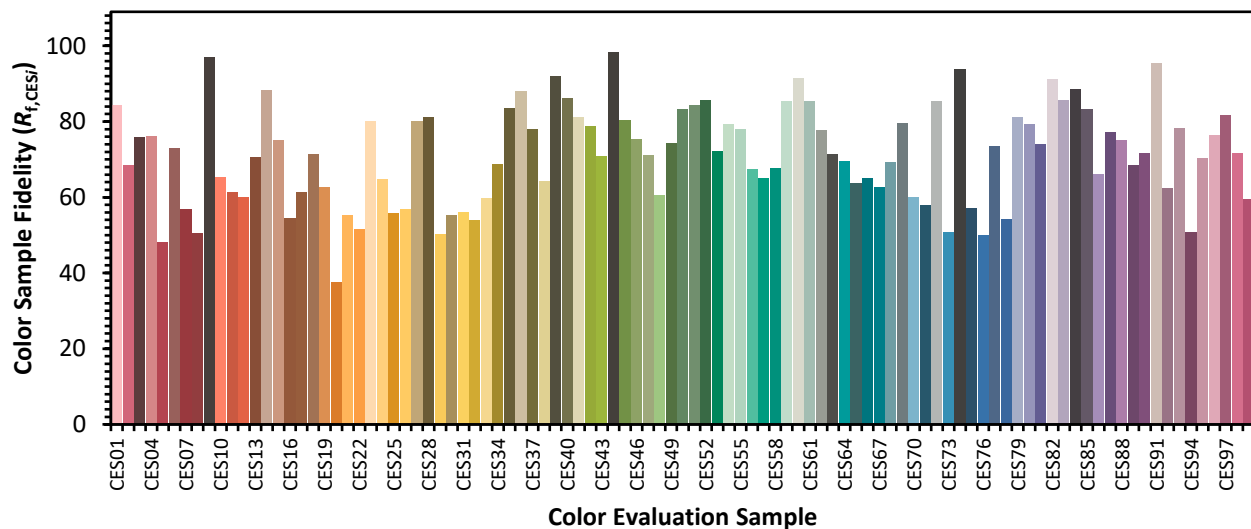


Color Vector Graphics

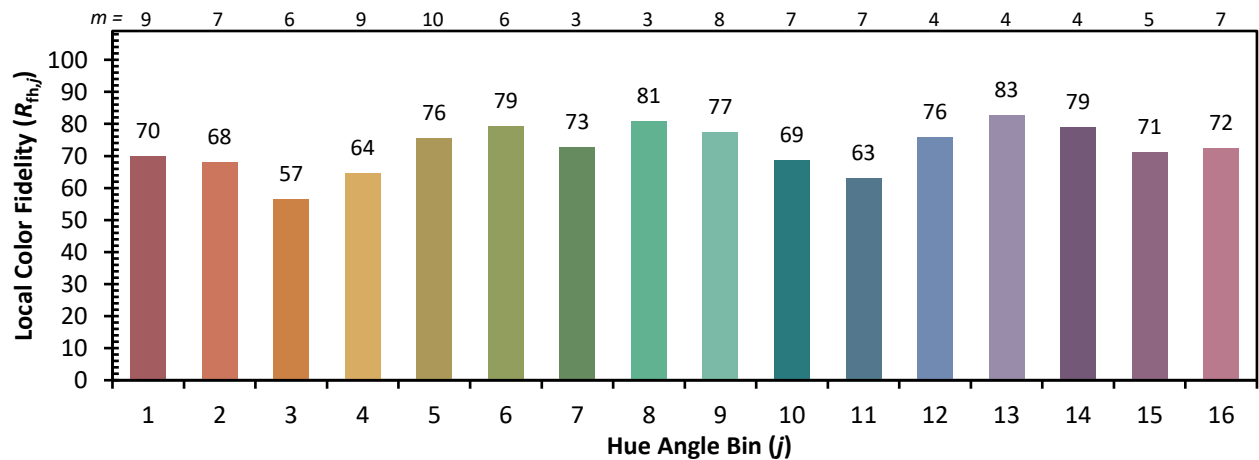
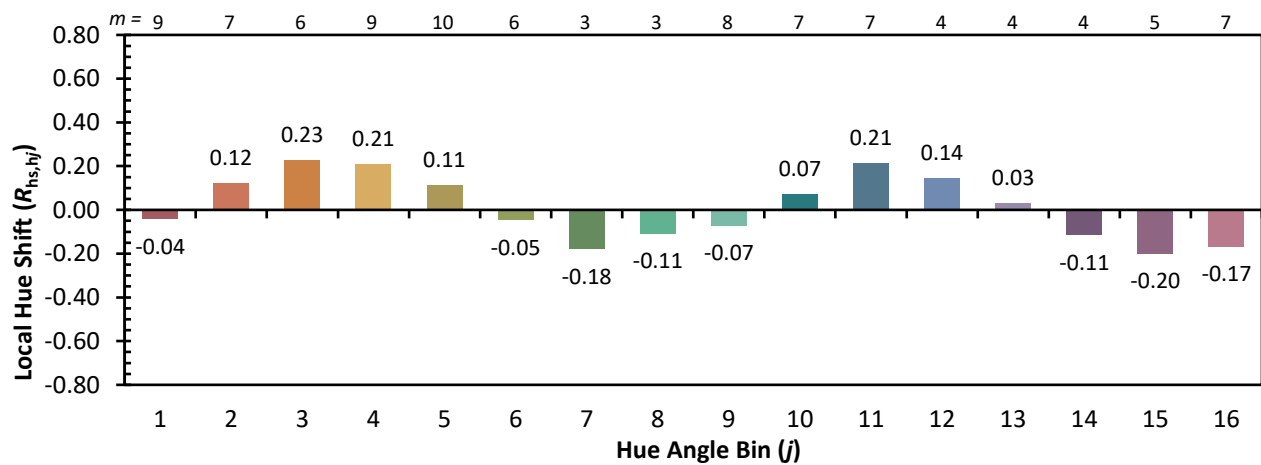
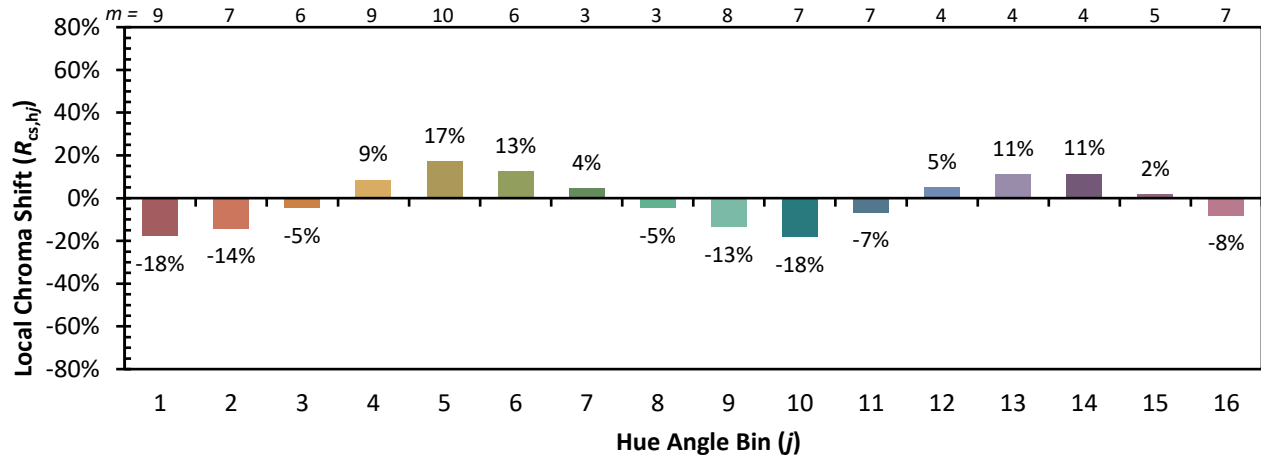


Individual Sample Fidelity Index ($R_{f,i}$)

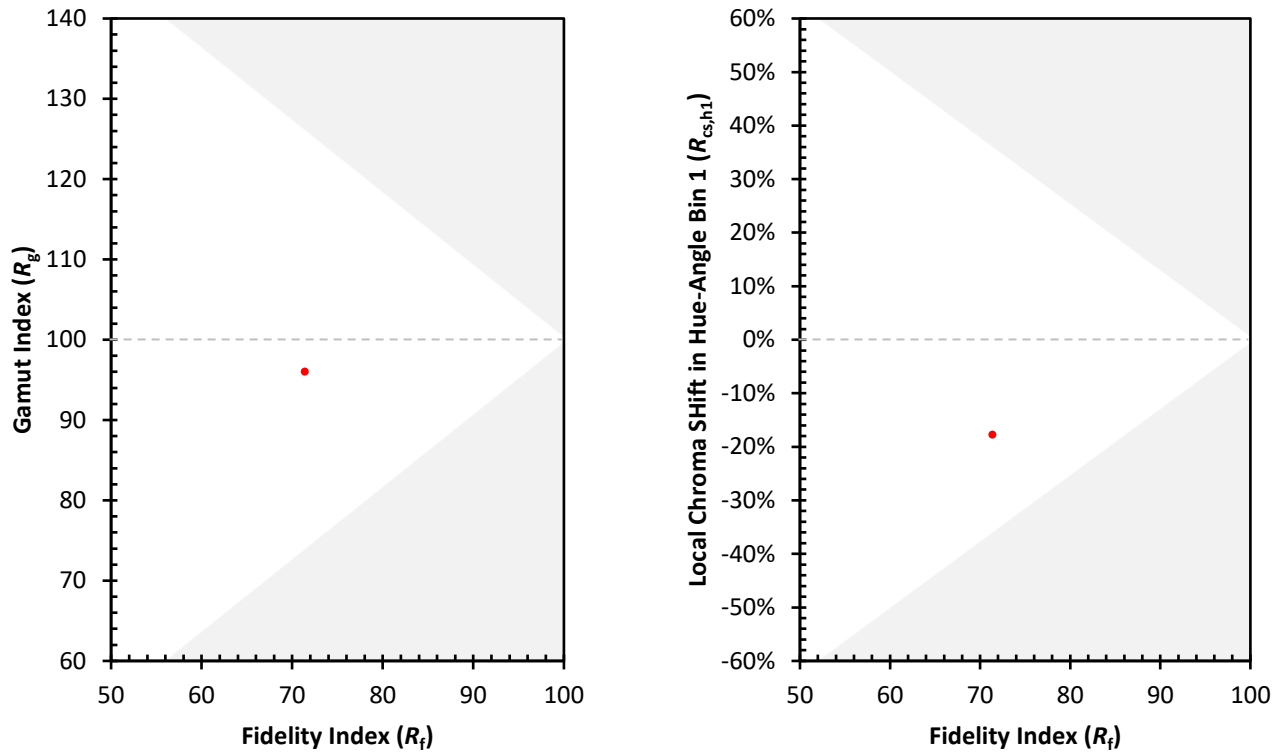
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82 = 91
CES08 = 39	CES33 = 60	CES58 = 68	CES83 = 86
CES09 = 29	CES34 = 69	CES59 = 85	CES84 = 89
CES10 = 75	CES35 = 83	CES60 = 91	CES85 = 83
CES11 = 58	CES36 = 88	CES61 = 85	CES86 = 66
CES12 = 64	CES37 = 78	CES62 = 78	CES87 = 77
CES13 = 43	CES38 = 64	CES63 = 71	CES88 = 75
CES14 = 74	CES39 = 92	CES64 = 70	CES89 = 68
CES15 = 71	CES40 = 86	CES65 = 64	CES90 = 72
CES16 = 47	CES41 = 81	CES66 = 65	CES91 = 95
CES17 = 50	CES42 = 79	CES67 = 63	CES92 = 62
CES18 = 56	CES43 = 71	CES68 = 69	CES93 = 78
CES19 = 72	CES44 = 98	CES69 = 80	CES94 = 51
CES20 = 65	CES45 = 80	CES70 = 60	CES95 = 70
CES21 = 87	CES46 = 75	CES71 = 58	CES96 = 76
CES22 = 79	CES47 = 71	CES72 = 85	CES97 = 82
CES23 = 92	CES48 = 61	CES73 = 51	CES98 = 72
CES24 = 91	CES49 = 74	CES74 = 94	CES99 = 60
CES25 = 72	CES50 = 83	CES75 = 57	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)