

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: P1049629

Luminaire Tested: **GALN-SA7A-735-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049629
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-735-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 7xLight Square PACKAGE
70CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (98) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22345.8 lumens
Efficiency: N/A
Efficacy: 115.7 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): 193.1
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

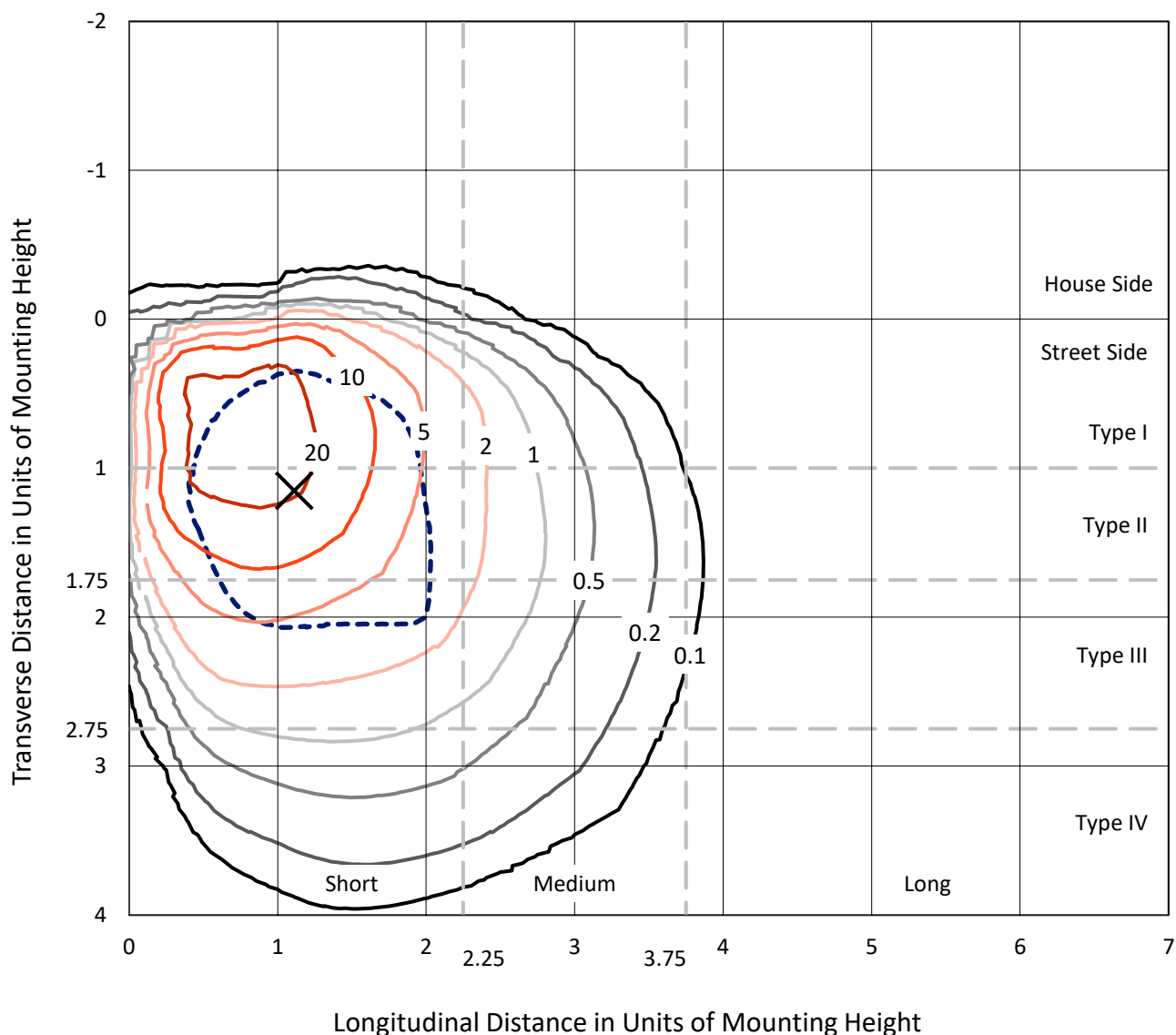
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

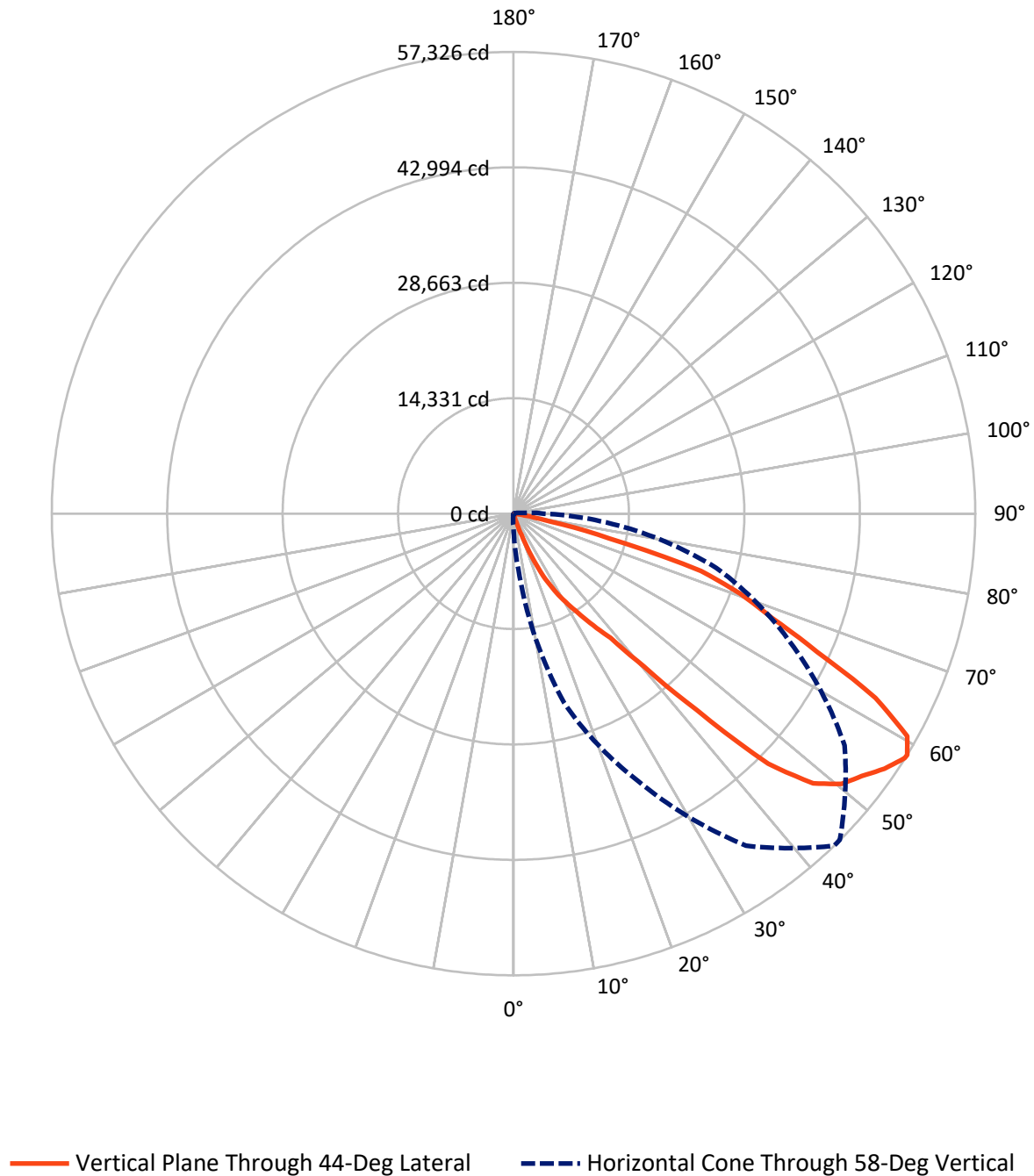


Based on 20 foot mounting height. Maximum calculated value = 38.9 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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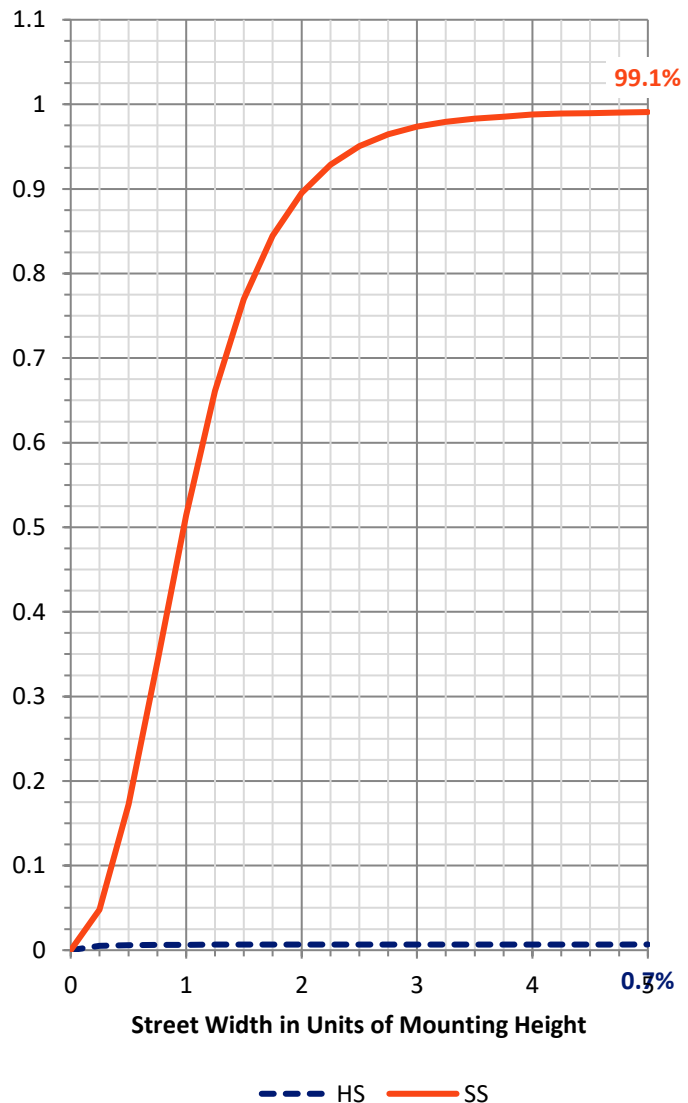
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	152.6	0.0	152.6
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	22193.3	0.0	22193.3
	% Fixture	99.3	0.0	99.3
Total	Lumens	22345.8	0.0	22345.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.7	0.0
10°-20°	49.0	0.2
20°-30°	529.4	2.4
30°-40°	1565.5	7.0
40°-50°	4666.2	20.9
50°-60°	7404.1	33.1
60°-70°	6175.9	27.6
70°-80°	1904.7	8.5
80°-90°	42.3	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°	22345.8	100.0
0°-180°	22345.8	100.0



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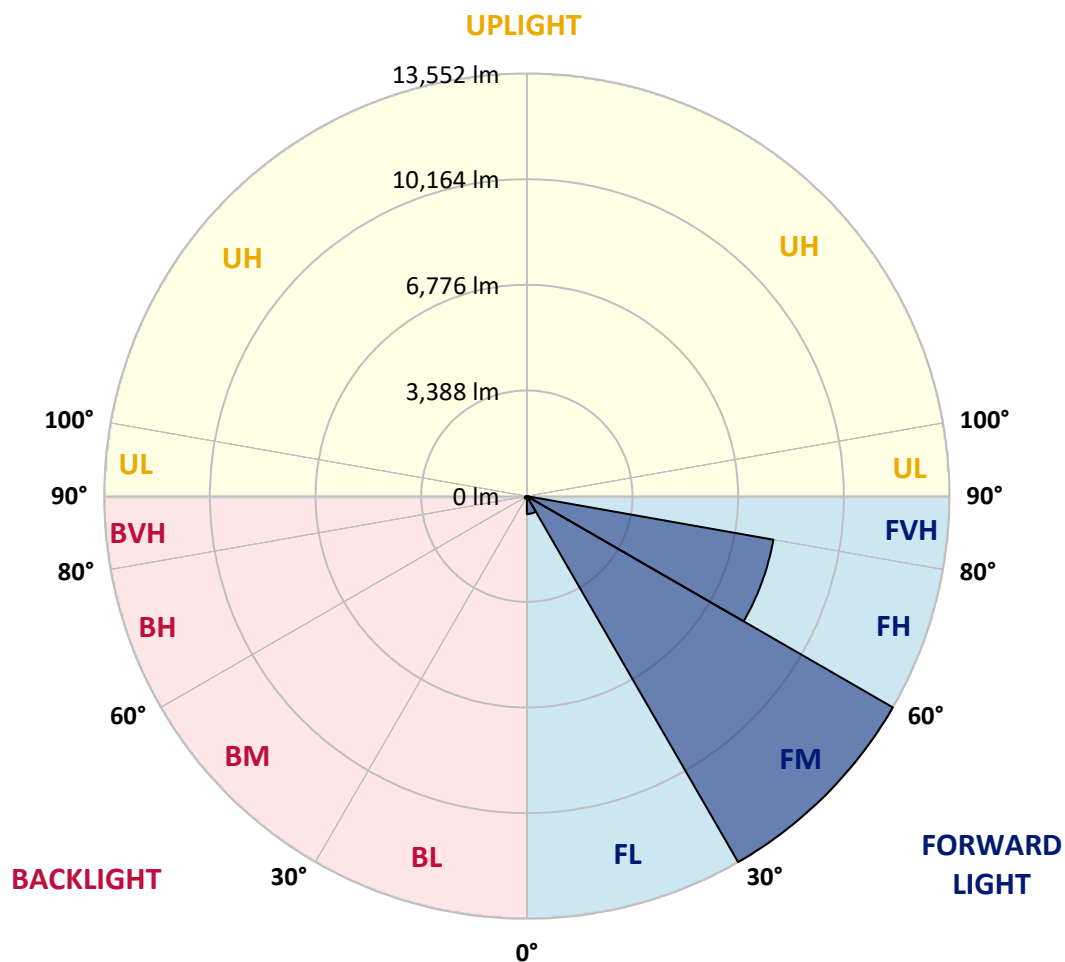
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	572.2	2.6			
FM	(30°-60°)	13552.3	60.6			
FH	(60°-80°)	8028.5	35.9			G4/12000
FVH	(80°-90°)	40.3	0.2			G1/100
BL	(0°-30°)	14.9	0.1	B0/110		
BM	(30°-60°)	83.5	0.4	B0/220		
BH	(60°-80°)	52.1	0.2	B0/110		G0/110
BVH	(80°-90°)	2.0	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°	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
2.5°	126.6	126.6	121.5	114.8	108.0	101.3	99.6	96.2	94.5	92.8
5°	131.7	131.7	130.0	124.9	118.2	113.1	113.1	108.0	104.7	101.3
7.5°	135.0	136.7	140.1	138.4	135.0	130.0	130.0	126.6	121.5	113.1
10°	140.1	145.2	151.9	155.3	157.0	157.0	155.3	153.6	145.2	133.4
12.5°	145.2	155.3	172.2	189.1	199.2	212.7	211.0	207.6	185.7	160.4
15°	155.3	170.5	205.9	254.9	330.9	378.1	396.7	379.8	307.2	216.1
17.5°	167.1	192.4	298.8	533.4	874.4	1036.5	1134.4	1055.0	698.8	410.2
20°	178.9	234.6	555.4	1382.5	2268.7	2798.8	2945.6	2716.1	1743.7	781.6
22.5°	199.2	329.2	1125.9	2857.8	4888.6	5683.6	5833.9	5099.6	3293.4	1542.9
25°	241.4	477.7	1941.2	4657.3	7295.7	8637.7	8575.2	7613.1	5342.6	2464.5
27.5°	302.2	695.5	2935.5	6617.1	9601.6	10784.9	10926.7	9736.6	7121.8	3624.2
30°	389.9	963.9	4002.3	8187.0	11450.0	12729.5	12753.1	11522.6	8713.7	4642.1
32.5°	474.3	1217.1	4935.8	9704.5	13271.4	14674.1	14778.8	13264.6	9902.0	5702.2
35°	538.5	1382.5	5881.1	11038.1	15107.9	17040.8	17034.0	15236.2	11309.9	6649.2
37.5°	543.5	1547.9	6737.0	12402.0	17434.1	19598.1	19812.5	17830.8	13011.4	7820.7
40°	531.7	1733.6	7820.7	14528.9	21625.5	24945.8	25134.9	22636.6	16424.6	9826.1
42.5°	545.2	2056.0	9579.6	18457.0	28585.2	33354.0	33718.6	31092.0	22699.1	13917.9
45°	616.1	2662.0	13264.6	25028.5	38505.9	44319.5	44197.9	40415.0	29999.8	20146.7
47.5°	850.8	4145.8	18727.1	31424.5	44846.1	50023.3	50128.0	45504.5	34260.4	24935.7
50°	1308.2	6343.6	23316.9	34805.7	47572.3	52766.4	52668.5	47325.9	35879.3	27293.9
52.5°	1701.5	7933.8	25619.4	35992.4	47921.7	54121.9	54115.1	47805.3	36130.8	27496.5
55°	1799.4	8053.6	25637.9	36056.5	48705.0	55896.0	56118.8	48985.2	36456.6	26611.9
57.5°	1760.6	7130.3	24567.7	36427.9	50099.3	57268.4	57280.2	50128.0	37283.7	26070.1
58°	1726.9	6985.1	24351.6	36638.9	50339.0	57325.8	57297.1	50180.3	37957.2	26049.8
60°	1537.8	6065.1	23509.3	37177.4	49982.8	56147.5	55879.1	49037.5	37857.6	25842.2
62.5°	1208.6	4731.6	22680.5	36554.5	46164.5	50443.7	50555.1	43414.7	34512.0	24631.9
65°	962.2	3526.3	20951.9	32064.3	38014.6	41424.5	41839.7	35303.6	28806.4	20857.4
67.5°	766.4	2548.9	17575.9	25528.2	30080.8	34572.7	34874.9	29640.3	22317.6	15980.7
70°	622.9	1723.5	12131.9	18669.7	24810.8	29861.4	29880.0	24623.4	16657.6	10470.9
72.5°	552.0	1193.4	7042.5	13615.7	20118.0	24333.1	23841.9	19981.3	12802.1	6201.9
75°	477.7	791.7	3453.7	8323.7	12197.8	12280.5	12467.9	9269.0	6399.4	2949.0
77.5°	393.3	562.1	1360.6	2273.8	3658.0	4682.6	4856.5	3679.9	2128.6	725.9
80°	270.1	266.7	366.3	697.2	1046.6	1311.6	1223.8	947.0	557.1	278.5
82.5°	116.5	126.6	165.4	199.2	162.1	157.0	150.2	96.2	74.3	57.4
85°	37.1	33.8	35.4	35.4	28.7	21.9	21.9	10.1	0.0	0.0
87.5°	18.6	15.2	15.2	13.5	8.4	3.4	1.7	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°
97.9	0°	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
91.2	2.5°	89.5	89.5	86.1	82.7	81.0	77.6	76.0	74.3	72.6	70.9
97.9	5°	94.5	92.8	87.8	82.7	77.6	72.6	69.2	65.8	62.5	60.8
108.0	7.5°	103.0	99.6	89.5	81.0	74.3	67.5	64.1	59.1	55.7	50.6
119.9	10°	113.1	106.3	92.8	82.7	72.6	64.1	59.1	54.0	49.0	42.2
136.7	12.5°	126.6	114.8	97.9	81.0	69.2	59.1	54.0	47.3	42.2	37.1
158.7	15°	138.4	123.2	99.6	81.0	65.8	54.0	47.3	40.5	35.4	28.7
199.2	17.5°	155.3	130.0	97.9	76.0	60.8	47.3	40.5	35.4	27.0	16.9
295.4	20°	184.0	135.0	94.5	70.9	52.3	38.8	30.4	23.6	11.8	3.4
444.0	22.5°	229.6	148.5	91.2	64.1	45.6	30.4	20.3	8.4	0.0	0.0
675.2	25°	317.4	172.2	91.2	60.8	40.5	21.9	6.8	0.0	0.0	0.0
958.8	27.5°	422.0	204.3	91.2	52.3	32.1	11.8	0.0	0.0	0.0	0.0
1306.5	30°	528.4	239.7	91.2	45.6	25.3	1.7	0.0	0.0	0.0	0.0
1608.7	32.5°	629.6	270.1	92.8	38.8	16.9	0.0	0.0	0.0	0.0	0.0
2027.3	35°	732.6	275.2	91.2	33.8	10.1	0.0	0.0	0.0	0.0	0.0
2540.5	37.5°	864.3	265.0	86.1	30.4	5.1	0.0	0.0	0.0	0.0	0.0
3342.3	40°	1063.5	270.1	81.0	28.7	1.7	0.0	0.0	0.0	0.0	0.0
4772.1	42.5°	1431.5	292.0	74.3	28.7	0.0	0.0	0.0	0.0	0.0	0.0
7601.2	45°	2474.7	391.6	67.5	30.4	0.0	0.0	0.0	0.0	0.0	0.0
11411.1	47.5°	4093.5	703.9	65.8	30.4	0.0	0.0	0.0	0.0	0.0	0.0
13745.7	50°	5224.5	886.2	69.2	32.1	0.0	0.0	0.0	0.0	0.0	0.0
14037.7	52.5°	5216.0	987.5	72.6	33.8	6.8	0.0	0.0	0.0	0.0	0.0
12938.8	55°	4637.0	1006.1	77.6	37.1	21.9	0.0	0.0	0.0	0.0	0.0
11119.1	57.5°	3875.7	918.3	89.5	45.6	40.5	0.0	0.0	0.0	0.0	0.0
10833.8	58°	3740.7	877.8	92.8	47.3	43.9	0.0	0.0	0.0	0.0	0.0
9397.3	60°	3065.5	715.7	118.2	59.1	59.1	0.0	0.0	0.0	0.0	0.0
7704.2	62.5°	2116.8	624.6	135.0	76.0	60.8	0.0	0.0	0.0	0.0	0.0
5680.3	65°	1497.3	563.8	146.9	81.0	49.0	0.0	0.0	0.0	0.0	0.0
4036.1	67.5°	1119.2	519.9	162.1	82.7	25.3	0.0	0.0	0.0	0.0	0.0
2532.1	70°	857.5	487.8	199.2	87.8	6.8	0.0	0.0	0.0	0.0	0.0
1509.1	72.5°	698.8	450.7	241.4	91.2	0.0	0.0	0.0	0.0	0.0	0.0
904.8	75°	579.0	406.8	232.9	99.6	0.0	0.0	0.0	0.0	0.0	0.0
482.8	77.5°	384.9	315.7	212.7	99.6	0.0	0.0	0.0	0.0	0.0	0.0
172.2	80°	135.0	124.9	165.4	87.8	0.0	0.0	0.0	0.0	0.0	0.0
35.4	82.5°	20.3	16.9	23.6	30.4	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°
97.9	0°	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
69.2	2.5°	69.2	69.2	67.5	69.2	69.2	72.6	81.0	92.8	106.3	111.4
59.1	5°	57.4	55.7	54.0	54.0	54.0	59.1	65.8	79.3	94.5	101.3
49.0	7.5°	47.3	45.6	43.9	42.2	42.2	45.6	54.0	69.2	84.4	91.2
40.5	10°	38.8	35.4	33.8	32.1	32.1	35.4	43.9	59.1	76.0	82.7
33.8	12.5°	32.1	27.0	23.6	21.9	20.3	25.3	33.8	47.3	65.8	74.3
25.3	15°	21.9	16.9	11.8	10.1	8.4	13.5	21.9	37.1	55.7	65.8
13.5	17.5°	11.8	5.1	1.7	0.0	0.0	3.4	10.1	27.0	45.6	54.0
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5	33.8	42.2
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	20.3	28.7
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	15.2
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
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	5.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	13.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
97.9	0°	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
116.5	2.5°	119.9	118.2	114.8	111.4	111.4	111.4	116.5	121.5	126.6	126.6
104.7	5°	111.4	111.4	109.7	106.3	106.3	108.0	114.8	123.2	130.0	131.7
96.2	7.5°	103.0	106.3	103.0	101.3	103.0	104.7	111.4	121.5	131.7	135.0
89.5	10°	97.9	99.6	99.6	97.9	97.9	101.3	108.0	121.5	135.0	140.1
81.0	12.5°	91.2	94.5	92.8	92.8	92.8	96.2	104.7	119.9	138.4	145.2
72.6	15°	84.4	89.5	89.5	87.8	87.8	89.5	101.3	118.2	143.5	155.3
62.5	17.5°	77.6	82.7	84.4	81.0	81.0	84.4	96.2	118.2	146.9	167.1
50.6	20°	64.1	72.6	77.6	72.6	72.6	76.0	87.8	111.4	148.5	178.9
37.1	22.5°	50.6	59.1	65.8	64.1	64.1	65.8	81.0	106.3	150.2	199.2
21.9	25°	37.1	45.6	50.6	54.0	54.0	59.1	74.3	103.0	157.0	241.4
10.1	27.5°	21.9	32.1	38.8	42.2	43.9	50.6	69.2	99.6	168.8	302.2
0.0	30°	10.1	18.6	27.0	33.8	33.8	45.6	64.1	96.2	184.0	389.9
0.0	32.5°	0.0	8.4	13.5	23.6	25.3	37.1	59.1	92.8	205.9	474.3
0.0	35°	0.0	0.0	6.8	18.6	18.6	30.4	54.0	89.5	239.7	538.5
0.0	37.5°	0.0	0.0	0.0	13.5	15.2	27.0	52.3	87.8	246.5	543.5
0.0	40°	0.0	0.0	0.0	10.1	11.8	25.3	52.3	89.5	222.8	531.7
0.0	42.5°	0.0	0.0	0.0	6.8	8.4	25.3	52.3	92.8	200.9	545.2
0.0	45°	0.0	0.0	0.0	5.1	6.8	27.0	50.6	91.2	189.1	616.1
0.0	47.5°	0.0	0.0	0.0	6.8	10.1	27.0	49.0	89.5	190.7	850.8
0.0	50°	0.0	0.0	0.0	8.4	11.8	27.0	50.6	86.1	209.3	1308.2
0.0	52.5°	0.0	0.0	0.0	6.8	10.1	30.4	55.7	84.4	227.9	1701.5
0.0	55°	0.0	0.0	0.0	1.7	5.1	38.8	60.8	84.4	256.6	1799.4
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	43.9	69.2	89.5	303.8	1760.6
0.0	58°	0.0	0.0	0.0	0.0	0.0	43.9	70.9	89.5	307.2	1726.9
0.0	60°	0.0	0.0	0.0	0.0	0.0	43.9	77.6	99.6	330.9	1537.8
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	37.1	92.8	124.9	344.4	1208.6
0.0	65°	0.0	0.0	0.0	0.0	0.0	30.4	109.7	136.7	354.5	962.2
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	28.7	113.1	138.4	359.6	766.4
0.0	70°	0.0	0.0	0.0	0.0	0.0	30.4	111.4	148.5	376.4	622.9
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	33.8	101.3	163.7	376.4	552.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	35.4	94.5	184.0	342.7	477.7
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	33.8	92.8	214.4	305.5	393.3
0.0	80°	3.4	5.1	5.1	3.4	3.4	28.7	91.2	217.8	260.0	270.1
1.7	82.5°	10.1	13.5	11.8	8.4	8.4	25.3	81.0	182.3	135.0	116.5
10.1	85°	18.6	21.9	21.9	18.6	18.6	23.6	50.6	65.8	45.6	37.1
18.6	87.5°	25.3	28.7	28.7	25.3	25.3	23.6	21.9	20.3	18.6	18.6
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: SP1-2407-184-5

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

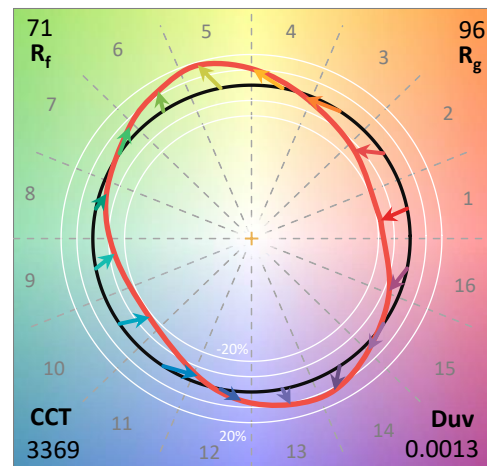
Test Information

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
 CIE u' : 0.2386
 CIE v' : 0.5156
 Duv: 0.0013
 CIE x: 0.4143
 CIE y: 0.3980
 CIE z: 0.1877
 Peak Wavelength (nm): 590
 Dominant Wavelength (nm): 580
 Purity: 43.80166
 R_f: 71.4
 R_g: 96

CRI (Ra): 70.1
 R1: 66.6
 R2: 77.6
 R3: 88.5
 R4: 69.5
 R5: 66.4
 R6: 69.6
 R7: 77.5
 R8: 44.9
 R9: -40.2
 R10: 49.1
 R11: 66.3
 R12: 45.7
 R13: 68.0
 R14: 93.4
 R15: 57.6



Test Conditions

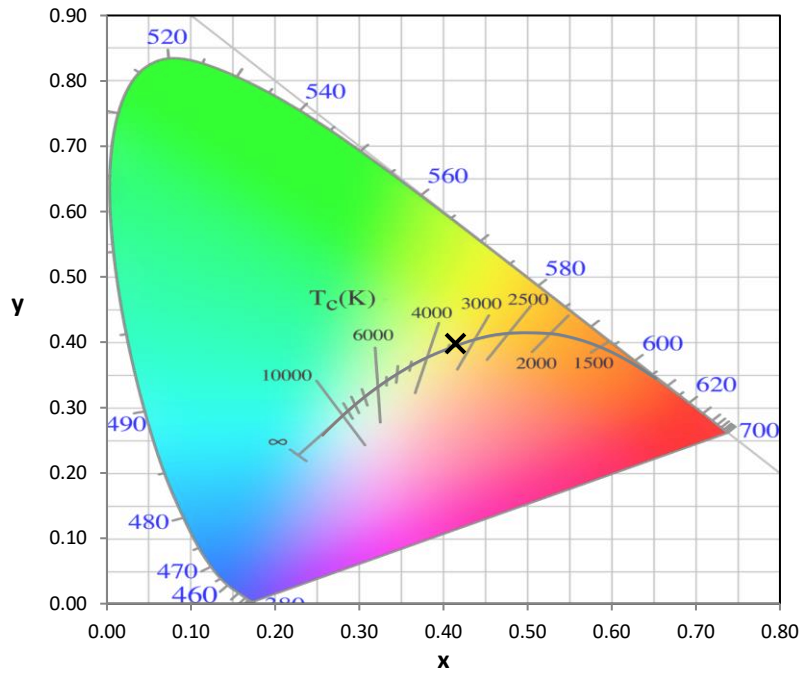
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-5

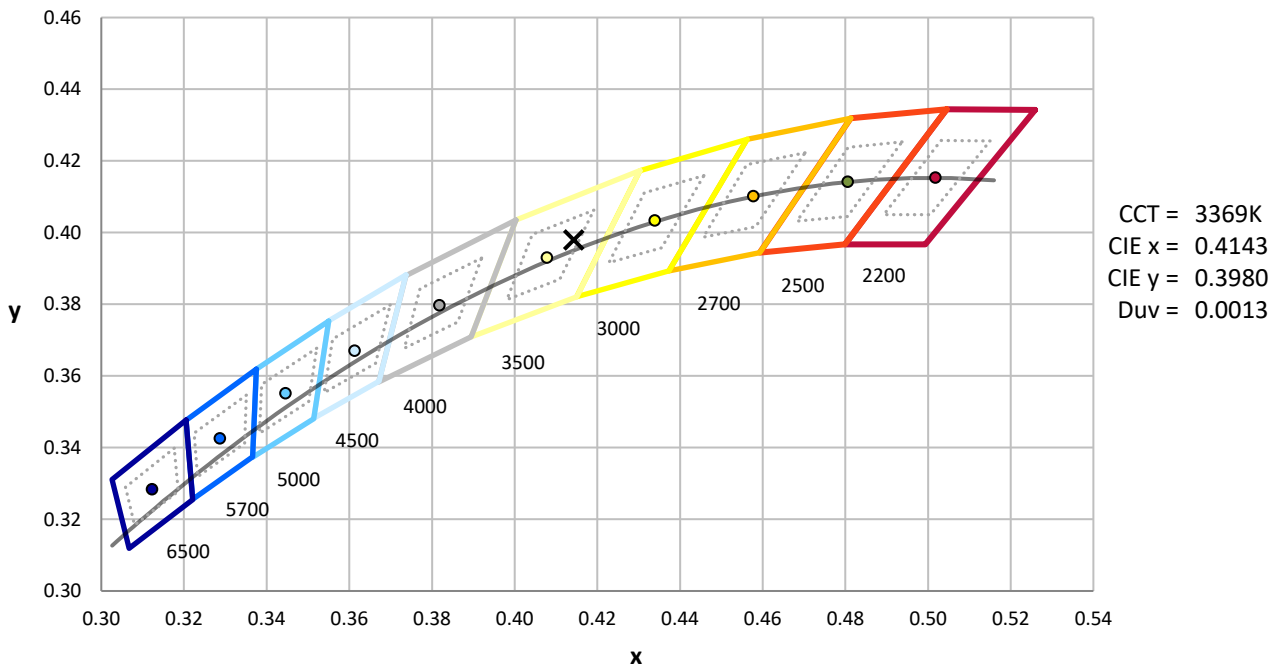
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-5

CIE 1931 Chromaticity Diagram



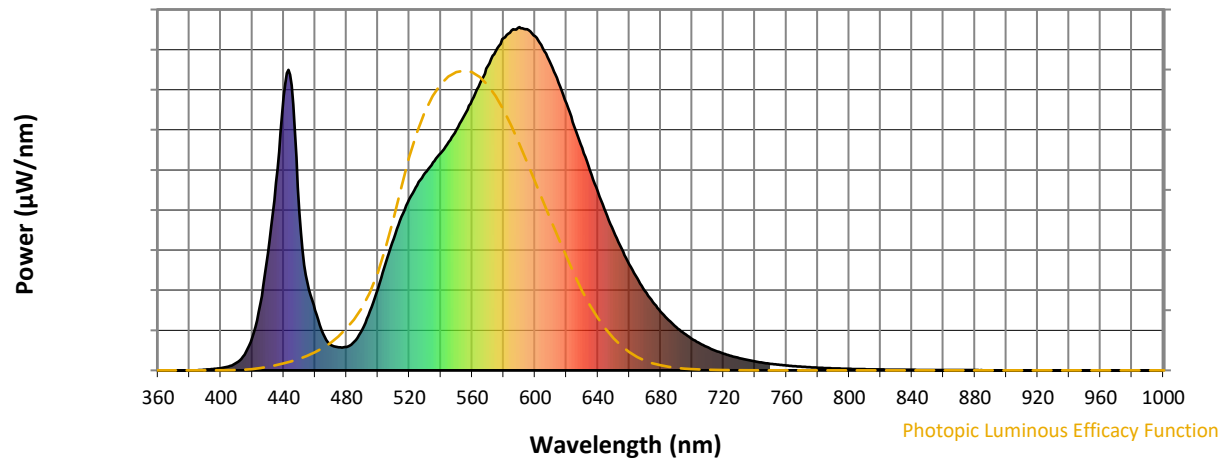
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

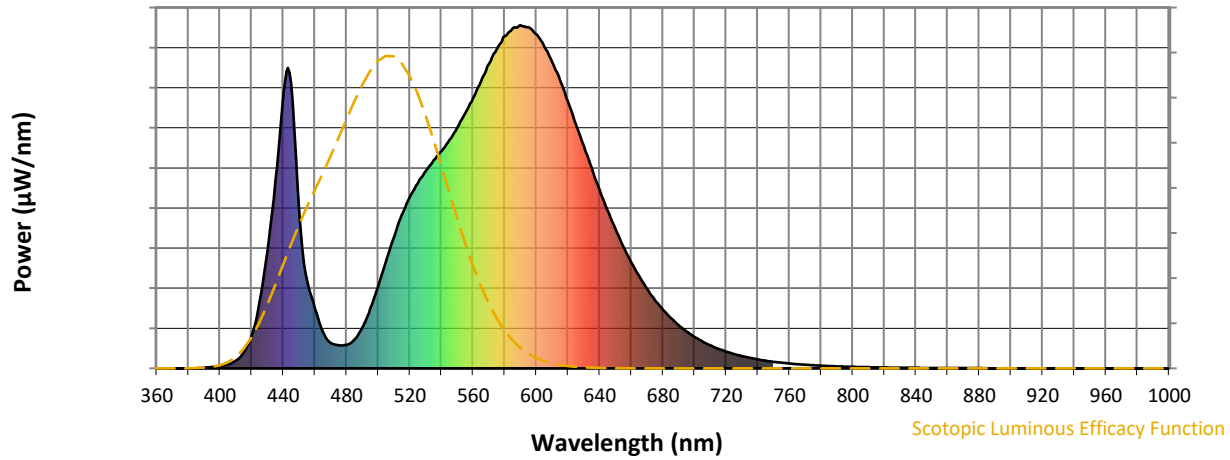


Photopic Lumens: NR

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



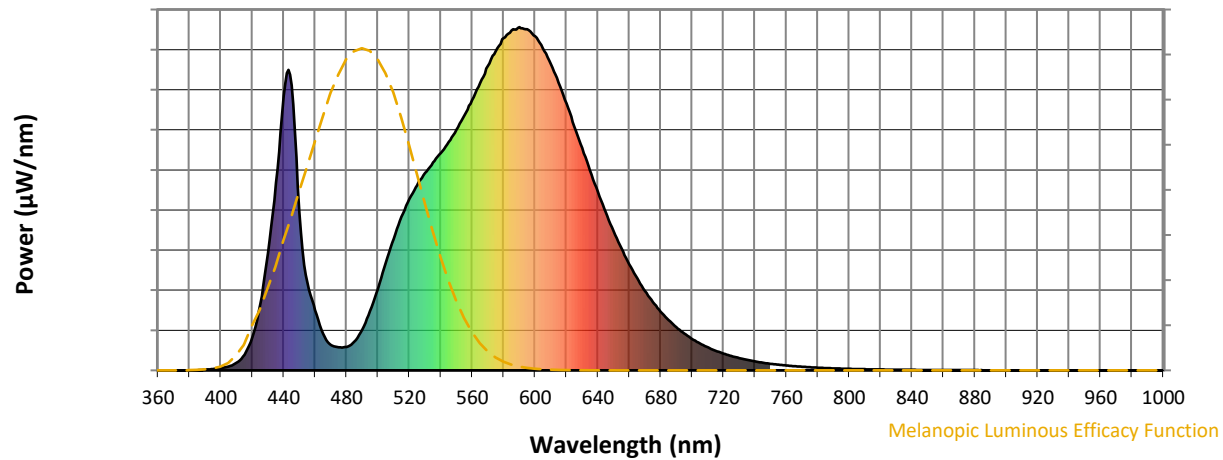
Scotopic Lumens: NR

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

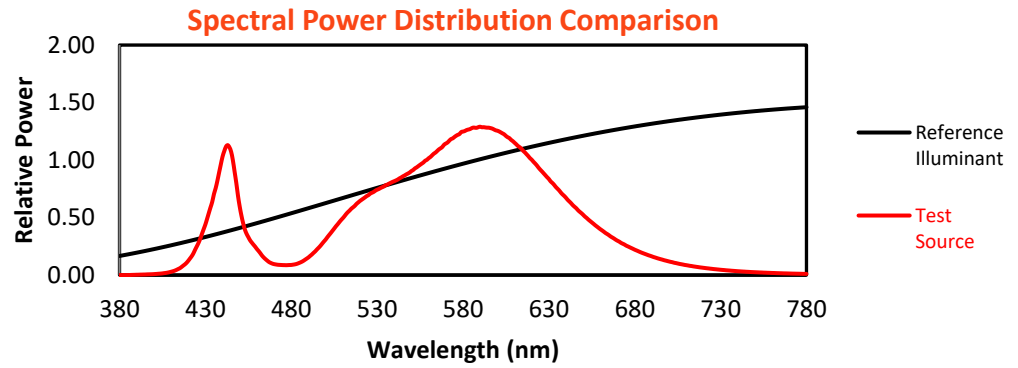
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	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

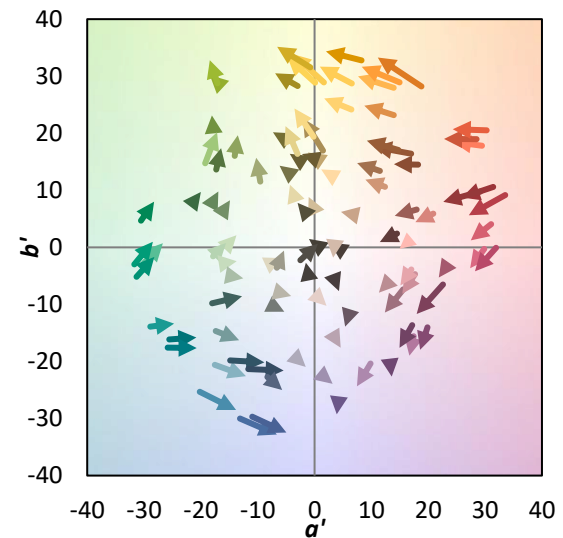
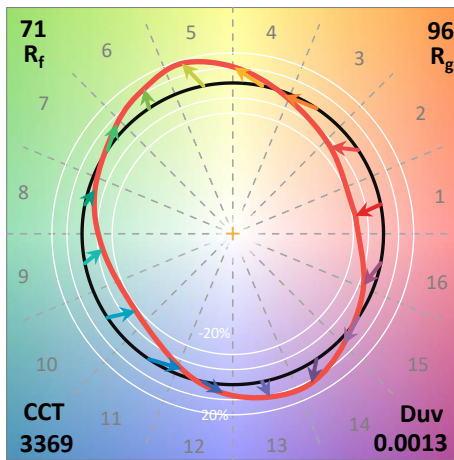
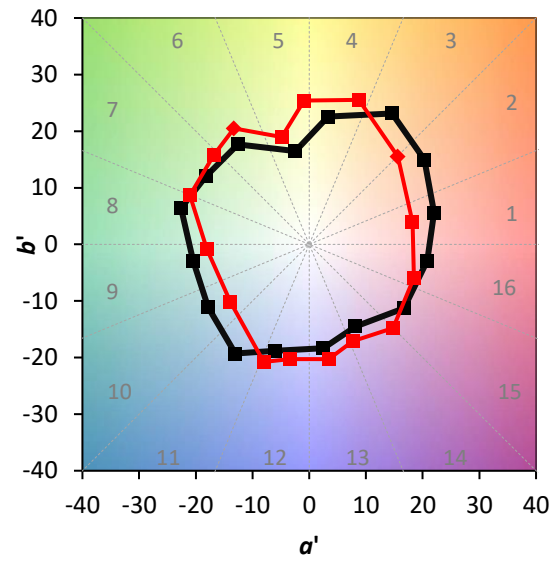
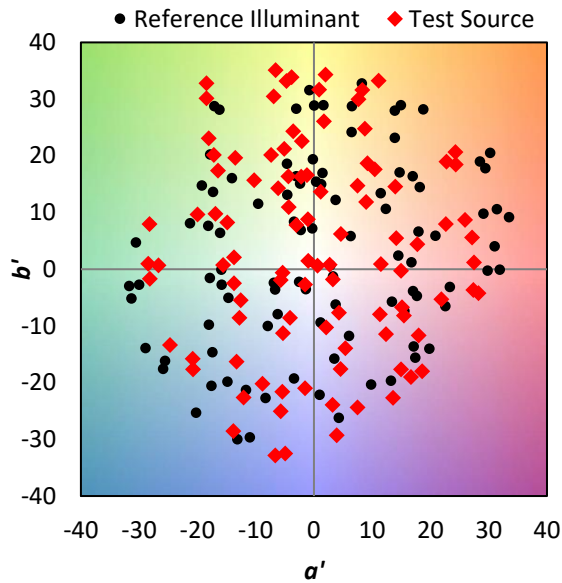
TM-30-18

Summary

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

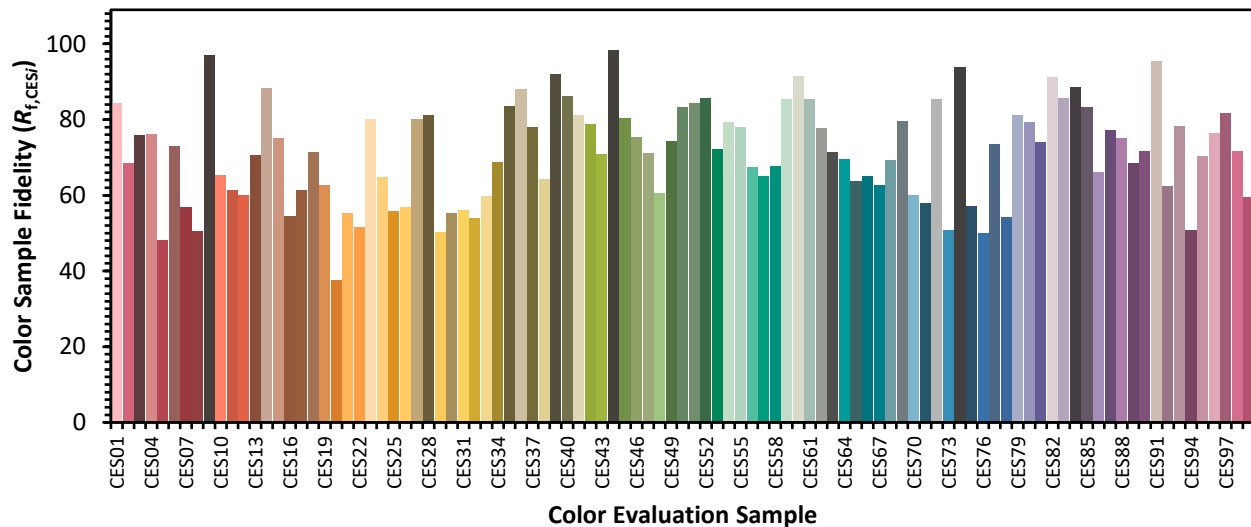


Color Vector Graphics

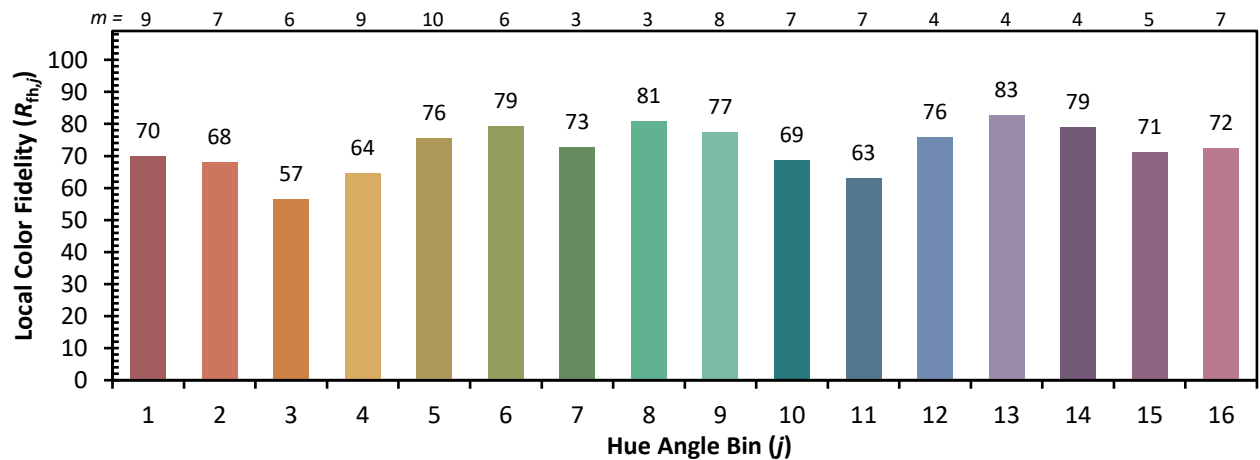
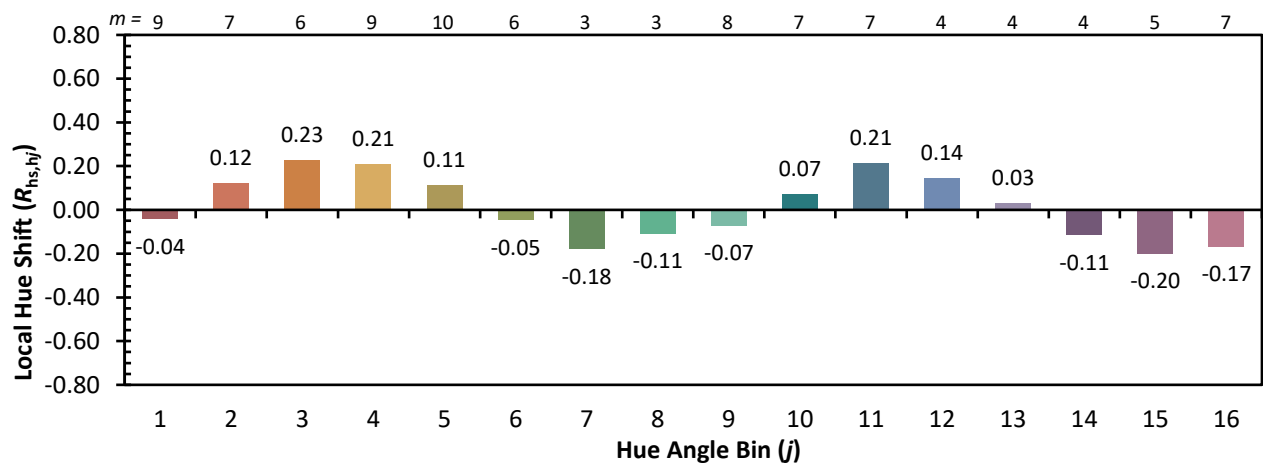
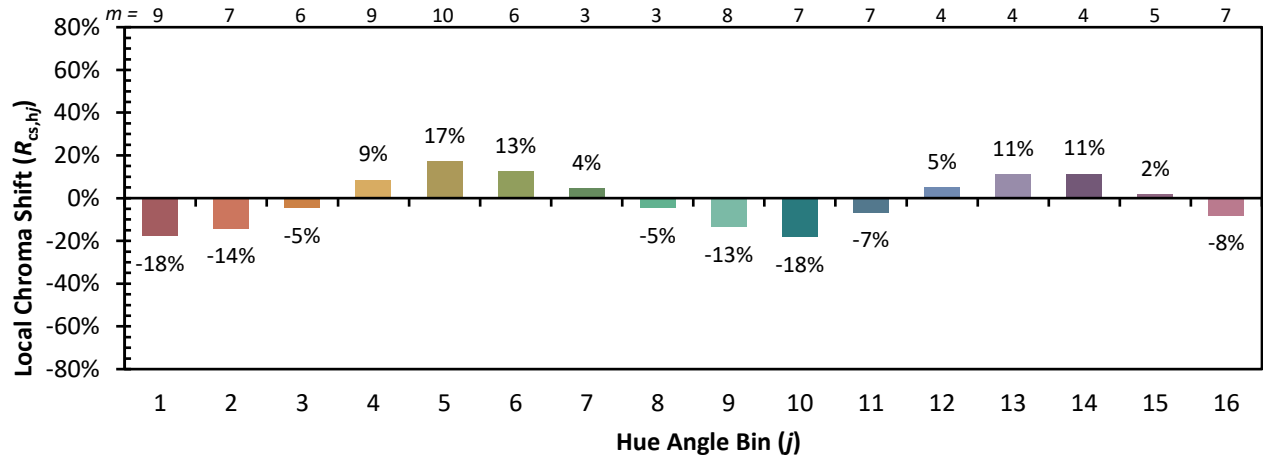


Individual Sample Fidelity Index ($R_{f,i}$)

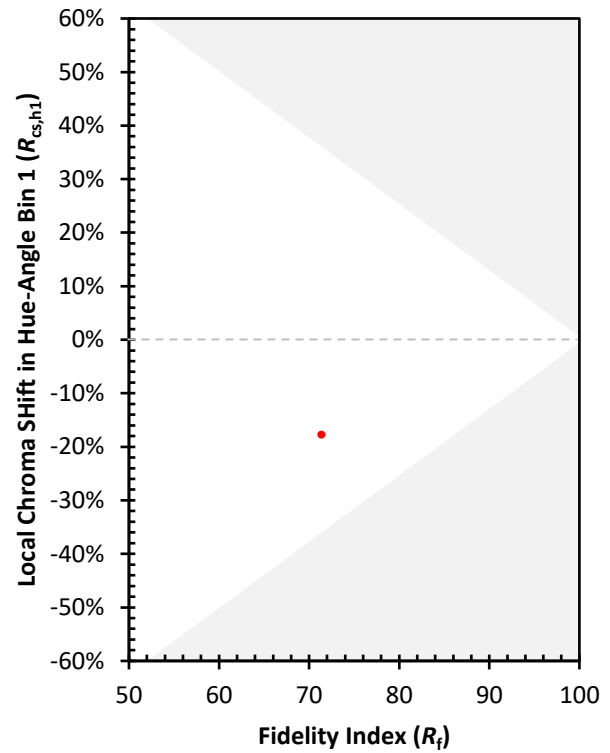
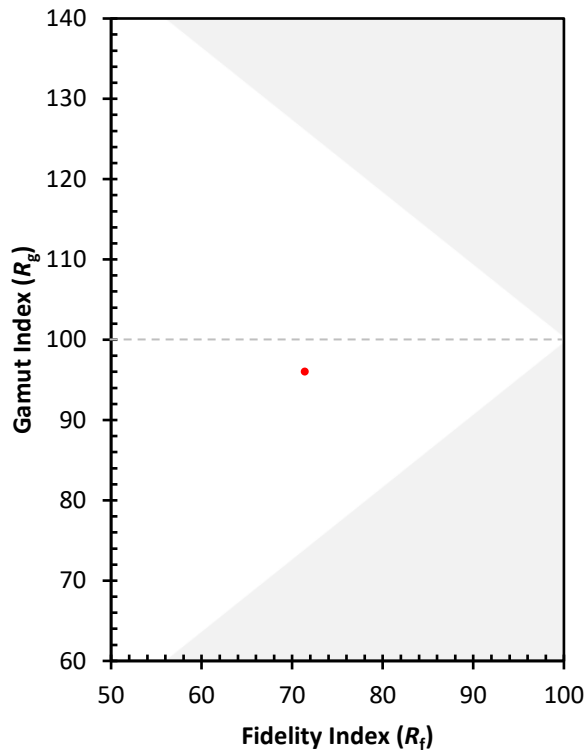
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82 = 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)