

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: P1049554

Luminaire Tested: **GALN-SA6B-727-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049554
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-727-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 6xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22118.2 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

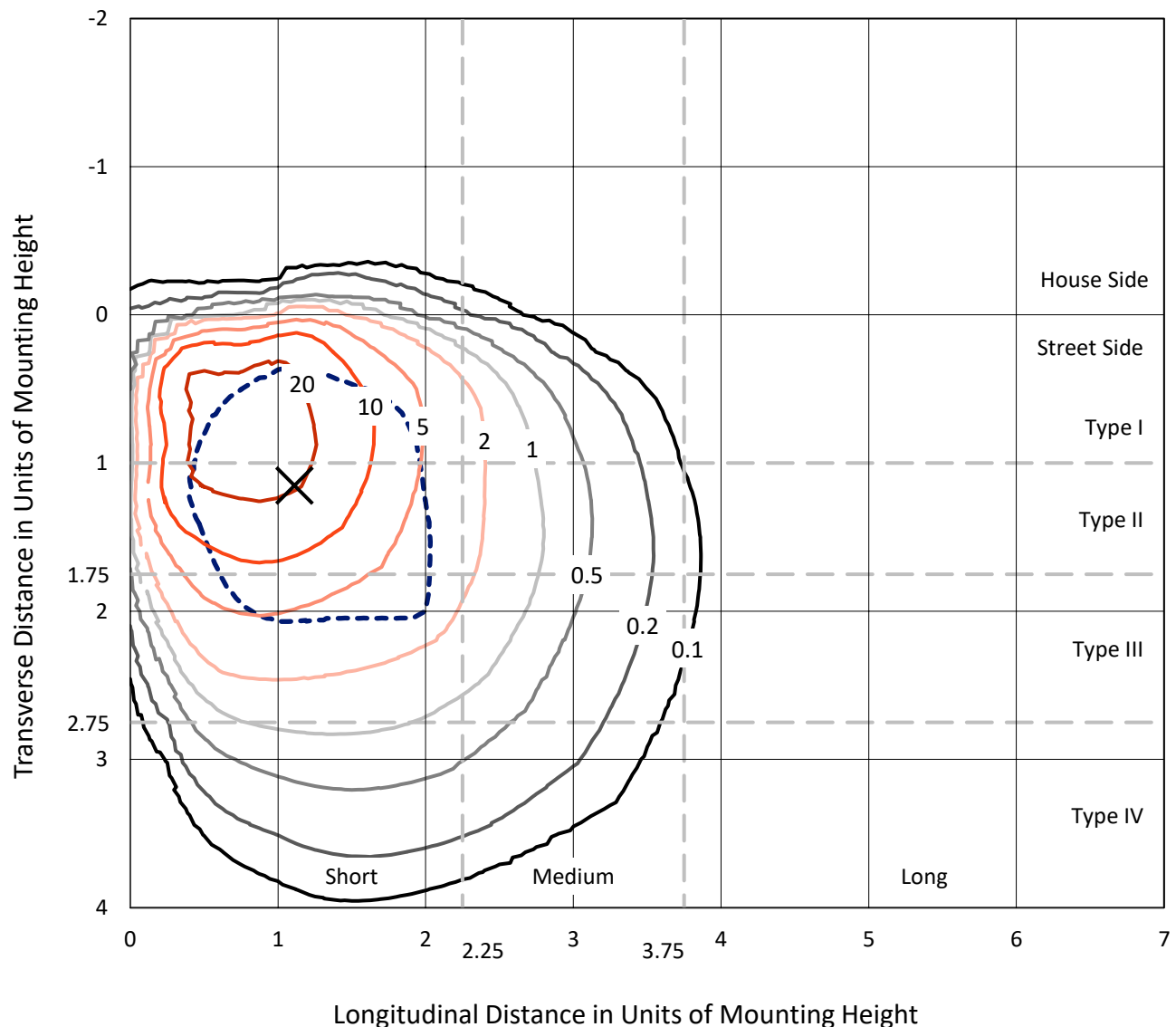
Input Watts (W): 213.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

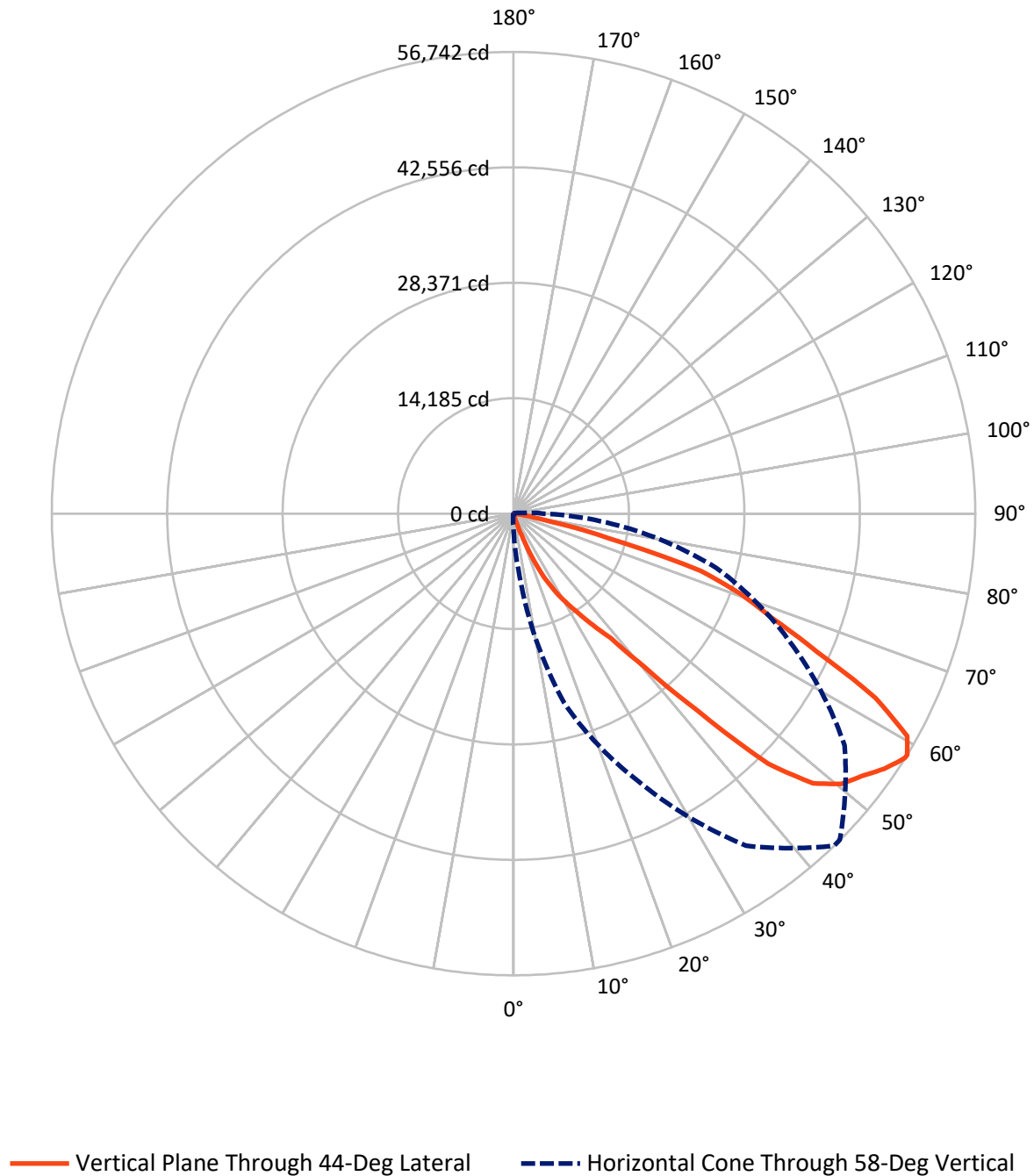
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 38.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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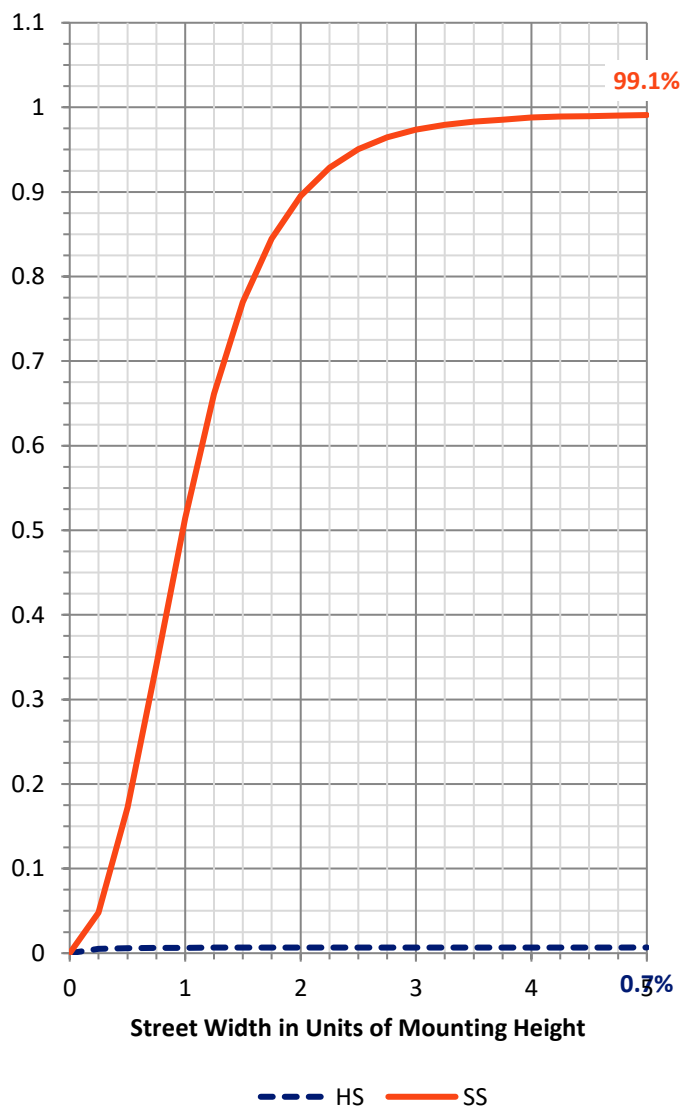
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	151.0	0.0	151.0
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	21967.2	0.0	21967.2
	% Fixture	99.3	0.0	99.3
Total	Lumens	22118.2	0.0	22118.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.6	0.0
10°-20°	48.5	0.2
20°-30°	524.0	2.4
30°-40°	1549.6	7.0
40°-50°	4618.6	20.9
50°-60°	7328.6	33.1
60°-70°	6113.0	27.6
70°-80°	1885.3	8.5
80°-90°	41.9	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°	22118.2	100.0
0°-180°	22118.2	100.0



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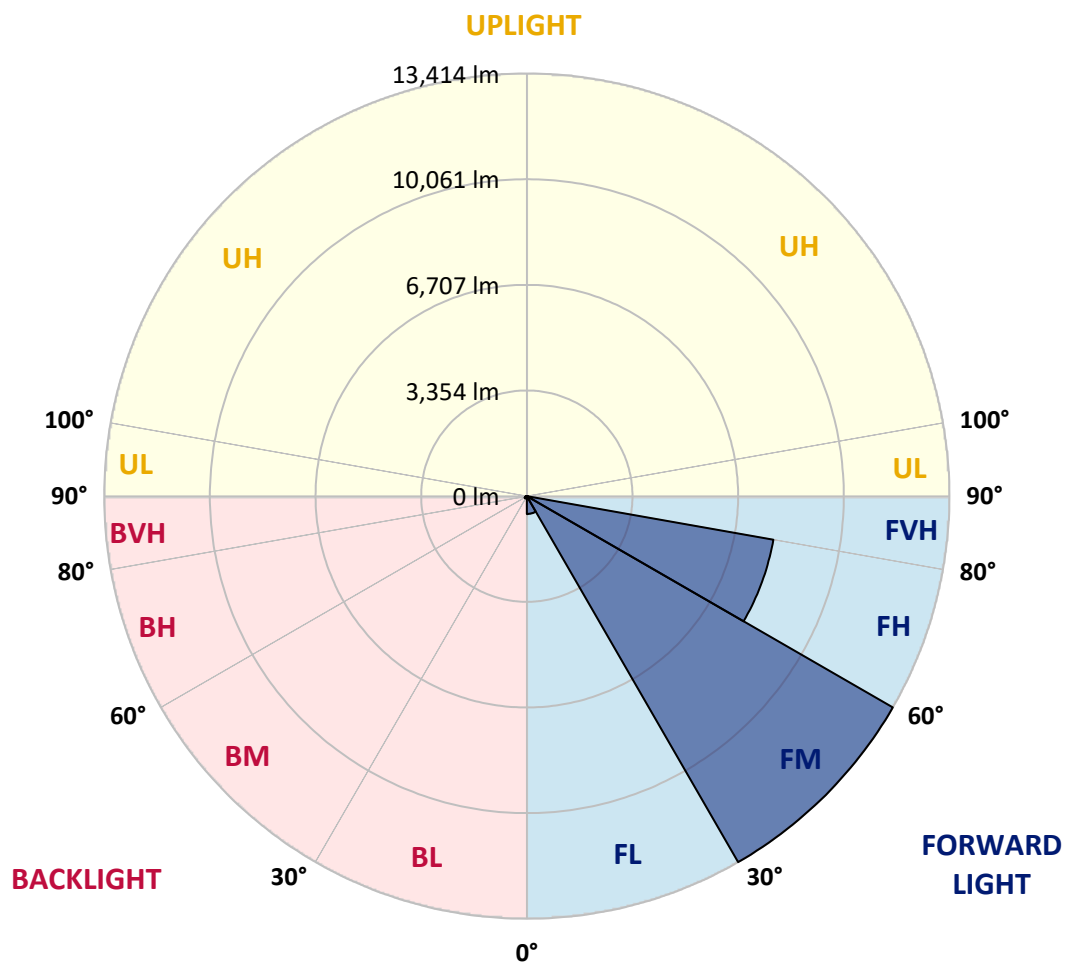
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	566.4	2.6			
FM	(30°-60°)	13414.2	60.6			
FH	(60°-80°)	7946.7	35.9			G4/12000
FVH	(80°-90°)	39.9	0.2			G1/100
BL	(0°-30°)	14.8	0.1	B0/110		
BM	(30°-60°)	82.7	0.4	B0/220		
BH	(60°-80°)	51.6	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°	85°
0°	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
2.5°	125.3	125.3	120.3	113.6	106.9	100.3	98.6	95.2	93.6	91.9	90.2
5°	130.3	130.3	128.7	123.6	117.0	111.9	111.9	106.9	103.6	100.3	96.9
7.5°	133.7	135.3	138.7	137.0	133.7	128.7	128.7	125.3	120.3	111.9	106.9
10°	138.7	143.7	150.4	153.7	155.4	155.4	153.7	152.0	143.7	132.0	118.6
12.5°	143.7	153.7	170.4	187.1	197.2	210.5	208.9	205.5	183.8	158.7	135.3
15°	153.7	168.8	203.8	252.3	327.5	374.3	392.6	375.9	304.1	213.9	157.1
17.5°	165.4	190.5	295.7	528.0	865.5	1025.9	1122.8	1044.3	691.7	406.0	197.2
20°	177.1	232.2	549.7	1368.4	2245.6	2770.3	2915.6	2688.4	1726.0	773.6	292.4
22.5°	197.2	325.8	1114.5	2828.7	4838.8	5625.7	5774.4	5047.6	3259.8	1527.1	439.4
25°	238.9	472.8	1921.5	4609.9	7221.4	8549.7	8487.9	7535.5	5288.2	2439.4	668.3
27.5°	299.1	688.4	2905.6	6549.7	9503.7	10675.0	10815.4	9637.4	7049.3	3587.3	949.0
30°	386.0	954.1	3961.6	8103.6	11333.3	12599.8	12623.2	11405.2	8624.9	4594.8	1293.2
32.5°	469.5	1204.7	4885.5	9605.7	13136.2	14524.6	14628.2	13129.5	9801.2	5644.1	1592.3
35°	533.0	1368.4	5821.2	10925.6	14954.0	16867.1	16860.5	15081.0	11194.6	6581.4	2006.7
37.5°	538.0	1532.2	6668.3	12275.7	17256.5	19398.5	19610.7	17649.1	12878.8	7741.0	2514.6
40°	526.3	1716.0	7741.0	14380.9	21405.2	24691.7	24878.8	22406.0	16257.3	9726.0	3308.3
42.5°	539.7	2035.1	9482.0	18269.0	28294.0	33014.2	33375.1	30775.2	22467.8	13776.1	4723.5
45°	609.9	2634.9	13129.5	24773.6	38113.6	43867.9	43747.6	40003.3	29694.2	19941.5	7523.8
47.5°	842.1	4103.6	18536.3	31104.4	44389.2	49513.7	49617.3	45040.9	33911.4	24681.7	11294.9
50°	1294.9	6279.0	23079.3	34451.1	47087.7	52228.8	52131.9	46843.7	35513.7	27015.8	13605.7
52.5°	1684.2	7853.0	25358.4	35625.7	47433.5	53570.5	53563.8	47318.2	35762.7	27216.3	13894.7
55°	1781.1	7971.6	25376.7	35689.2	48208.8	55326.6	55547.1	48486.2	36085.2	26340.8	12807.0
57.5°	1742.7	7057.6	24317.4	36056.8	49588.9	56685.0	56696.7	49617.3	36903.9	25804.5	11005.8
58°	1709.3	6913.9	24103.6	36265.6	49826.2	56741.8	56713.4	49669.1	37570.5	25784.4	10723.5
60°	1522.1	6003.3	23269.8	36798.6	49473.6	55575.5	55309.9	48537.9	37472.0	25578.9	9301.6
62.5°	1196.3	4683.4	22449.4	36182.1	45694.2	49929.8	50040.0	42972.4	34160.4	24380.9	7625.7
65°	952.4	3490.4	20738.5	31737.6	37627.4	41002.5	41413.5	34944.0	28512.9	20644.9	5622.4
67.5°	758.6	2523.0	17396.8	25268.1	29774.4	34220.5	34519.6	29338.3	22090.2	15817.9	3995.0
70°	616.5	1705.9	12008.3	18479.5	24558.0	29557.2	29575.6	24372.6	16487.9	10364.2	2506.3
72.5°	546.4	1181.3	6970.8	13477.0	19913.1	24085.2	23599.0	19777.8	12671.7	6138.7	1493.7
75°	472.8	783.6	3418.5	8238.9	12073.5	12155.4	12340.8	9174.6	6334.2	2919.0	895.6
77.5°	389.3	556.4	1346.7	2250.6	3620.7	4634.9	4807.0	3642.4	2106.9	718.5	477.9
80°	267.3	264.0	362.6	690.1	1035.9	1298.2	1211.4	937.3	551.4	275.7	170.4
82.5°	115.3	125.3	163.7	197.2	160.4	155.4	148.7	95.2	73.5	56.8	35.1
85°	36.8	33.4	35.1	35.1	28.4	21.7	21.7	10.0	0.0	0.0	0.0
87.5°	18.4	15.0	15.0	13.4	8.4	3.3	1.7	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	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
2.5°	88.6	88.6	85.2	81.9	80.2	76.9	75.2	73.5	71.8	70.2	68.5
5°	93.6	91.9	86.9	81.9	76.9	71.8	68.5	65.2	61.8	60.2	58.5
7.5°	101.9	98.6	88.6	80.2	73.5	66.8	63.5	58.5	55.1	50.1	48.5
10°	111.9	105.3	91.9	81.9	71.8	63.5	58.5	53.5	48.5	41.8	40.1
12.5°	125.3	113.6	96.9	80.2	68.5	58.5	53.5	46.8	41.8	36.8	33.4
15°	137.0	122.0	98.6	80.2	65.2	53.5	46.8	40.1	35.1	28.4	25.1
17.5°	153.7	128.7	96.9	75.2	60.2	46.8	40.1	35.1	26.7	16.7	13.4
20°	182.1	133.7	93.6	70.2	51.8	38.4	30.1	23.4	11.7	3.3	0.0
22.5°	227.2	147.0	90.2	63.5	45.1	30.1	20.1	8.4	0.0	0.0	0.0
25°	314.1	170.4	90.2	60.2	40.1	21.7	6.7	0.0	0.0	0.0	0.0
27.5°	417.7	202.2	90.2	51.8	31.7	11.7	0.0	0.0	0.0	0.0	0.0
30°	523.0	237.3	90.2	45.1	25.1	1.7	0.0	0.0	0.0	0.0	0.0
32.5°	623.2	267.3	91.9	38.4	16.7	0.0	0.0	0.0	0.0	0.0	0.0
35°	725.1	272.3	90.2	33.4	10.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	855.5	262.3	85.2	30.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1052.6	267.3	80.2	28.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1416.9	289.1	73.5	28.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2449.5	387.6	66.8	30.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4051.8	696.7	65.2	30.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5171.3	877.2	68.5	31.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5162.9	977.4	71.8	33.4	6.7	0.0	0.0	0.0	0.0	0.0	0.0
55°	4589.8	995.8	76.9	36.8	21.7	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3836.3	908.9	88.6	45.1	40.1	0.0	0.0	0.0	0.0	0.0	0.0
58°	3702.6	868.8	91.9	46.8	43.4	0.0	0.0	0.0	0.0	0.0	0.0
60°	3034.2	708.4	117.0	58.5	58.5	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	2095.2	618.2	133.7	75.2	60.2	0.0	0.0	0.0	0.0	0.0	0.0
65°	1482.0	558.1	145.4	80.2	48.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1107.8	514.6	160.4	81.9	25.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	848.8	482.9	197.2	86.9	6.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	691.7	446.1	238.9	90.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	573.1	402.7	230.6	98.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	381.0	312.4	210.5	98.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	133.7	123.6	163.7	86.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	20.1	16.7	23.4	30.1	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	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
2.5°	68.5	68.5	66.8	68.5	68.5	71.8	80.2	91.9	105.3	110.3	115.3
5°	56.8	55.1	53.5	53.5	53.5	58.5	65.2	78.5	93.6	100.3	103.6
7.5°	46.8	45.1	43.4	41.8	41.8	45.1	53.5	68.5	83.5	90.2	95.2
10°	38.4	35.1	33.4	31.7	31.7	35.1	43.4	58.5	75.2	81.9	88.6
12.5°	31.7	26.7	23.4	21.7	20.1	25.1	33.4	46.8	65.2	73.5	80.2
15°	21.7	16.7	11.7	10.0	8.4	13.4	21.7	36.8	55.1	65.2	71.8
17.5°	11.7	5.0	1.7	0.0	0.0	3.3	10.0	26.7	45.1	53.5	61.8
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.4	33.4	41.8	50.1
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	20.1	28.4	36.8
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	15.0	21.7
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	10.0
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	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	10.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	13.4	18.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CATALOG NUMBER: GALN-SA6B-727-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
0°	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
2.5°	118.6	117.0	113.6	110.3	110.3	110.3	115.3	120.3	125.3	125.3
5°	110.3	110.3	108.6	105.3	105.3	106.9	113.6	122.0	128.7	130.3
7.5°	101.9	105.3	101.9	100.3	101.9	103.6	110.3	120.3	130.3	133.7
10°	96.9	98.6	98.6	96.9	96.9	100.3	106.9	120.3	133.7	138.7
12.5°	90.2	93.6	91.9	91.9	91.9	95.2	103.6	118.6	137.0	143.7
15°	83.5	88.6	88.6	86.9	86.9	88.6	100.3	117.0	142.0	153.7
17.5°	76.9	81.9	83.5	80.2	80.2	83.5	95.2	117.0	145.4	165.4
20°	63.5	71.8	76.9	71.8	71.8	75.2	86.9	110.3	147.0	177.1
22.5°	50.1	58.5	65.2	63.5	63.5	65.2	80.2	105.3	148.7	197.2
25°	36.8	45.1	50.1	53.5	53.5	58.5	73.5	101.9	155.4	238.9
27.5°	21.7	31.7	38.4	41.8	43.4	50.1	68.5	98.6	167.1	299.1
30°	10.0	18.4	26.7	33.4	33.4	45.1	63.5	95.2	182.1	386.0
32.5°	0.0	8.4	13.4	23.4	25.1	36.8	58.5	91.9	203.8	469.5
35°	0.0	0.0	6.7	18.4	18.4	30.1	53.5	88.6	237.3	533.0
37.5°	0.0	0.0	0.0	13.4	15.0	26.7	51.8	86.9	243.9	538.0
40°	0.0	0.0	0.0	10.0	11.7	25.1	51.8	88.6	220.6	526.3
42.5°	0.0	0.0	0.0	6.7	8.4	25.1	51.8	91.9	198.8	539.7
45°	0.0	0.0	0.0	5.0	6.7	26.7	50.1	90.2	187.1	609.9
47.5°	0.0	0.0	0.0	6.7	10.0	26.7	48.5	88.6	188.8	842.1
50°	0.0	0.0	0.0	8.4	11.7	26.7	50.1	85.2	207.2	1294.9
52.5°	0.0	0.0	0.0	6.7	10.0	30.1	55.1	83.5	225.6	1684.2
55°	0.0	0.0	0.0	1.7	5.0	38.4	60.2	83.5	254.0	1781.1
57.5°	0.0	0.0	0.0	0.0	0.0	43.4	68.5	88.6	300.8	1742.7
58°	0.0	0.0	0.0	0.0	0.0	43.4	70.2	88.6	304.1	1709.3
60°	0.0	0.0	0.0	0.0	0.0	43.4	76.9	98.6	327.5	1522.1
62.5°	0.0	0.0	0.0	0.0	0.0	36.8	91.9	123.6	340.9	1196.3
65°	0.0	0.0	0.0	0.0	0.0	30.1	108.6	135.3	350.9	952.4
67.5°	0.0	0.0	0.0	0.0	0.0	28.4	111.9	137.0	355.9	758.6
70°	0.0	0.0	0.0	0.0	0.0	30.1	110.3	147.0	372.6	616.5
72.5°	0.0	0.0	0.0	0.0	0.0	33.4	100.3	162.1	372.6	546.4
75°	0.0	0.0	0.0	0.0	0.0	35.1	93.6	182.1	339.2	472.8
77.5°	0.0	0.0	0.0	0.0	0.0	33.4	91.9	212.2	302.4	389.3
80°	3.3	5.0	5.0	3.3	3.3	28.4	90.2	215.5	257.3	267.3
82.5°	10.0	13.4	11.7	8.4	8.4	25.1	80.2	180.5	133.7	115.3
85°	18.4	21.7	21.7	18.4	18.4	23.4	50.1	65.2	45.1	36.8
87.5°	25.1	28.4	28.4	25.1	25.1	23.4	21.7	20.1	18.4	18.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-3

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-727-U-5WQ

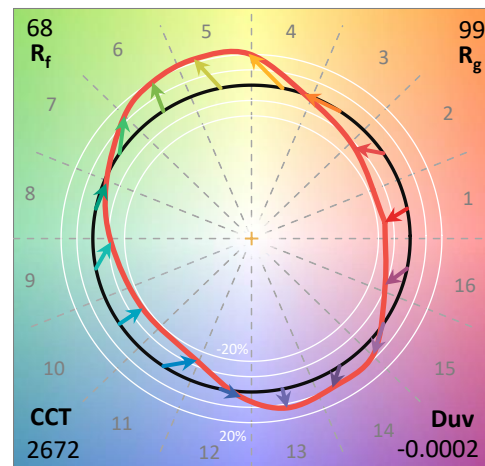
Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-3
 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-727-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K):	2672	CRI (Ra):	71.1		
CIE u':	0.2638	R1:	68.3	R9:	-27.8
CIE v':	0.5276	R2:	79.8	R10:	54.4
Duv:	-0.0002	R3:	91.2	R11:	65.8
CIE x:	0.4619	R4:	69.4	R12:	45.6
CIE y:	0.4106	R5:	66.5	R13:	69.8
CIE z:	0.1275	R6:	72.6	R14:	94.5
Peak Wavelength (nm):	601	R7:	77.0	R15:	60.1
Dominant Wavelength (nm):	584	R8:	44.1		
Purity:	61.88407				
Rf:	67.9				
Rg:	98.6				



Test Conditions

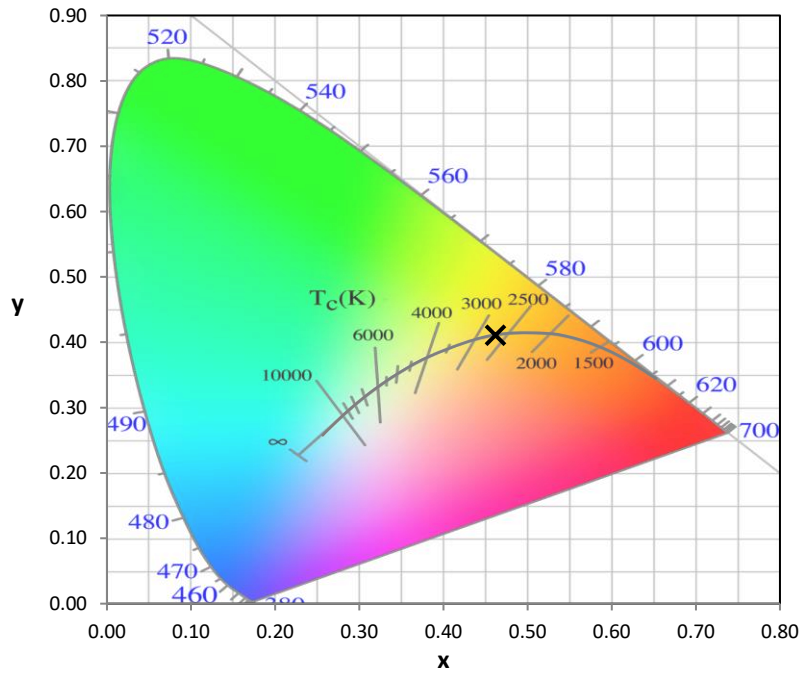
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-3

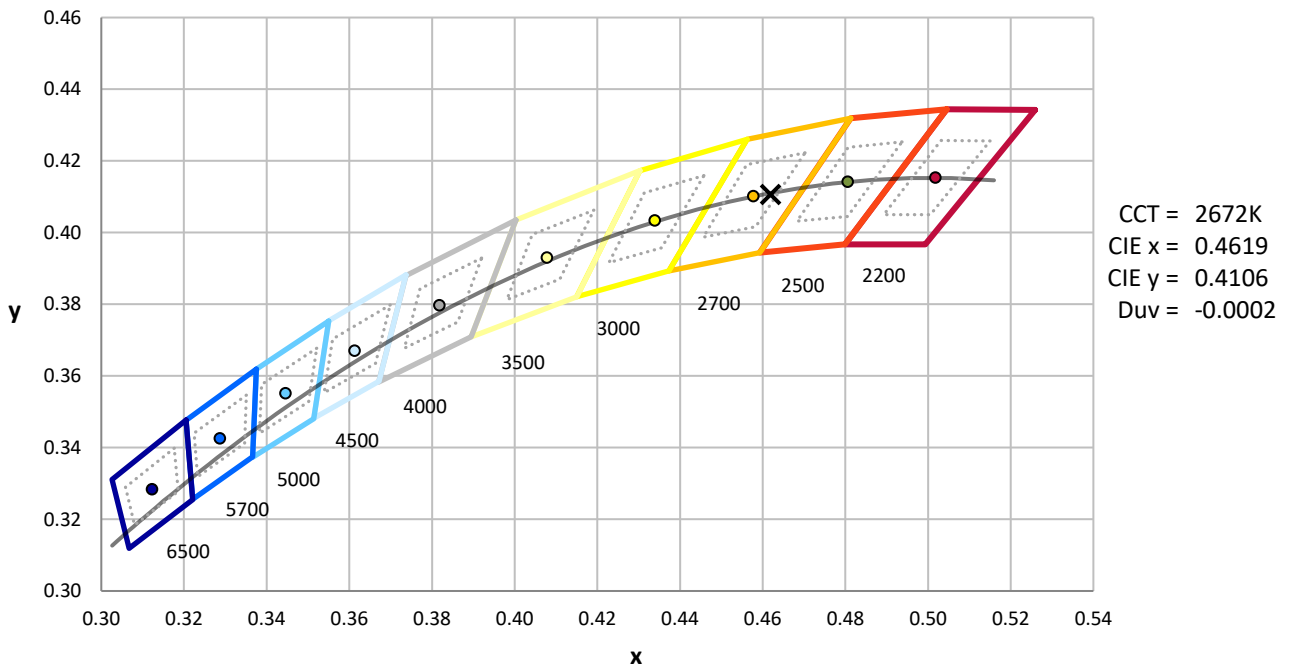
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



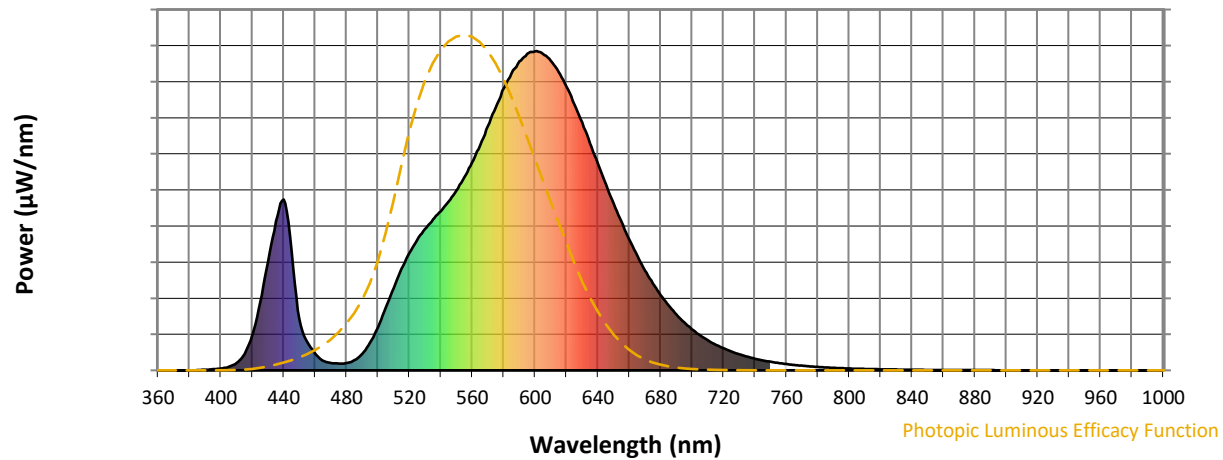
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-3

Photopic Flux vs. Wavelength

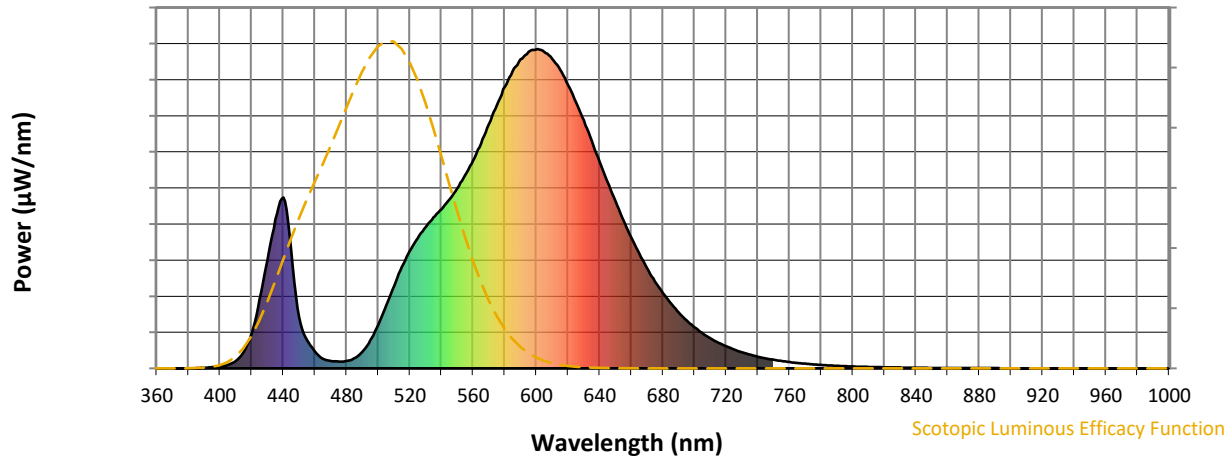


Photopic Lumens: NR

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Scotopic Flux vs. Wavelength



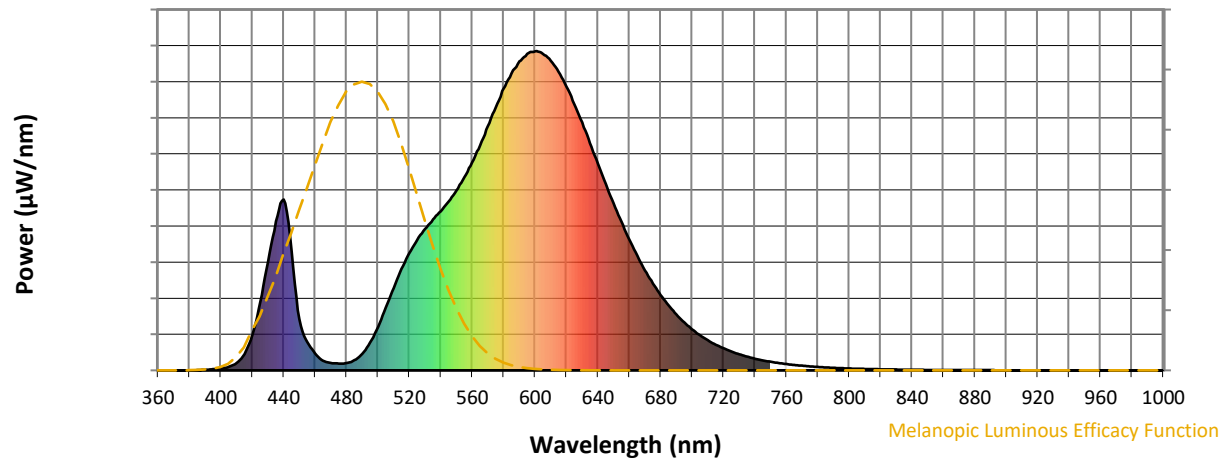
Scotopic Lumens: NR

S/P: 1.02

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.71

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

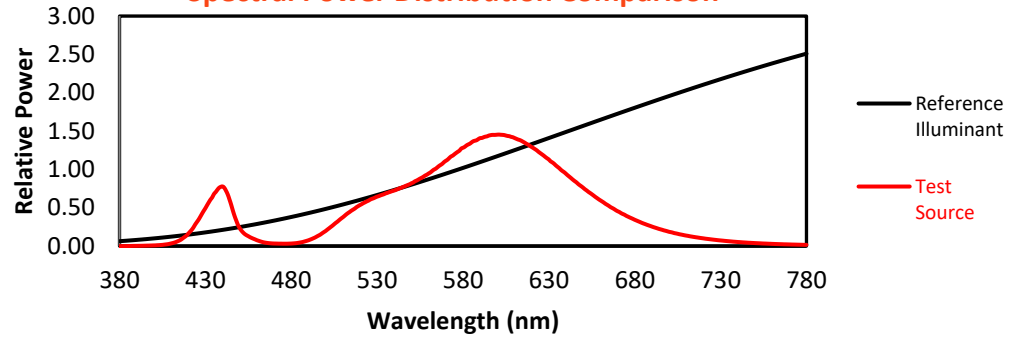
REPORT NUMBER: SP1-2407-184-3

TM-30-18

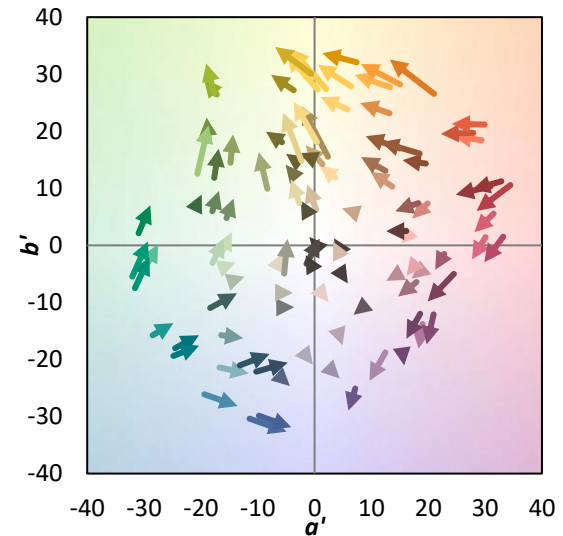
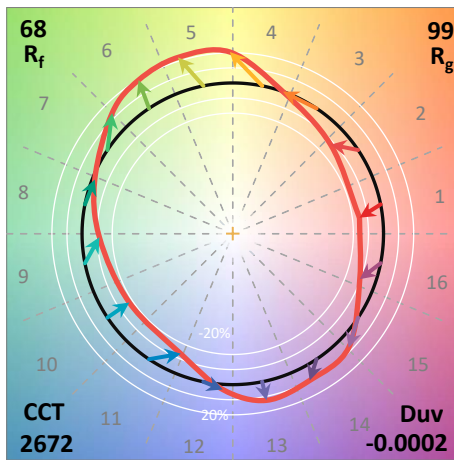
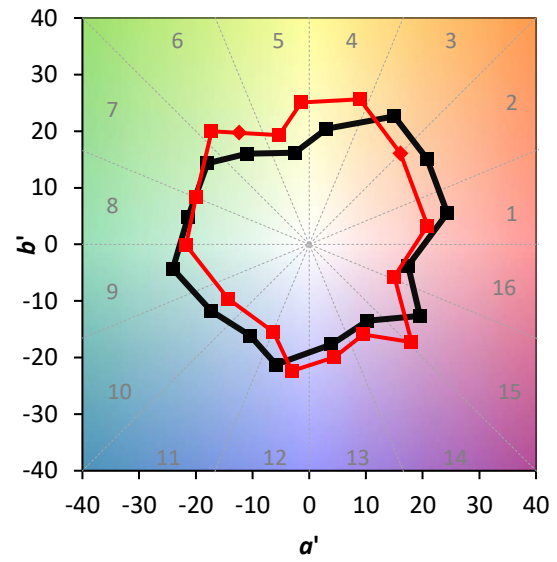
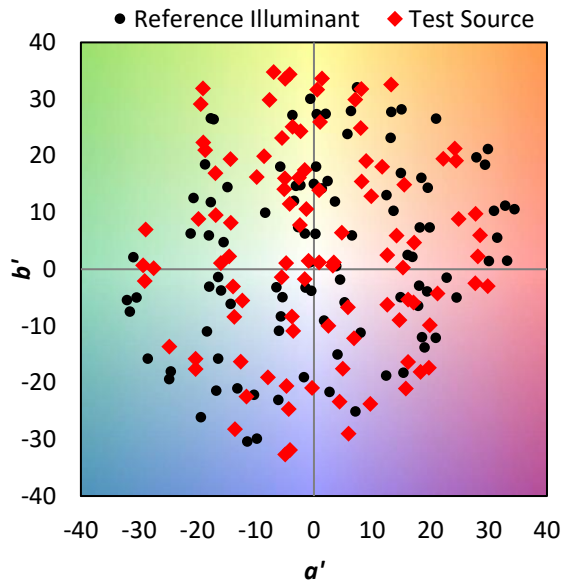
Summary

$R_f = 67.9$
 $R_g = 98.6$
 $CIE\ R_a = 71.1$
 $R_g = -27.8$

Spectral Power Distribution Comparison

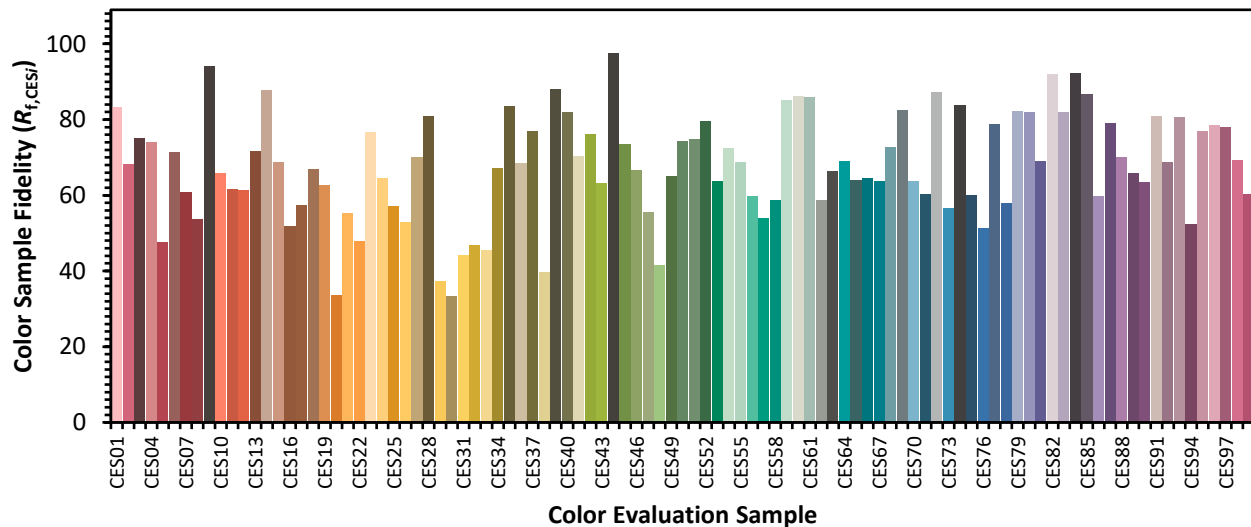


Color Vector Graphics

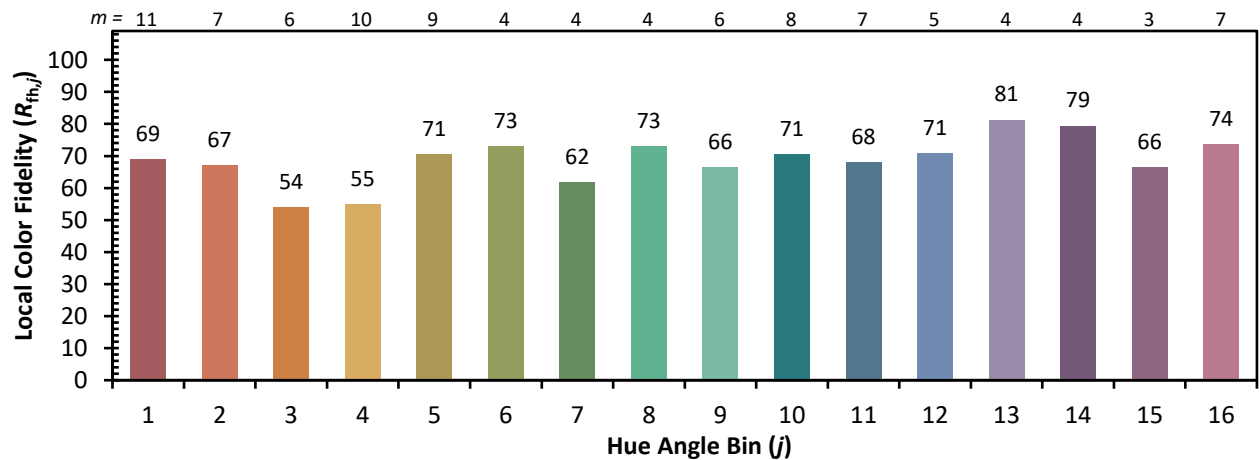
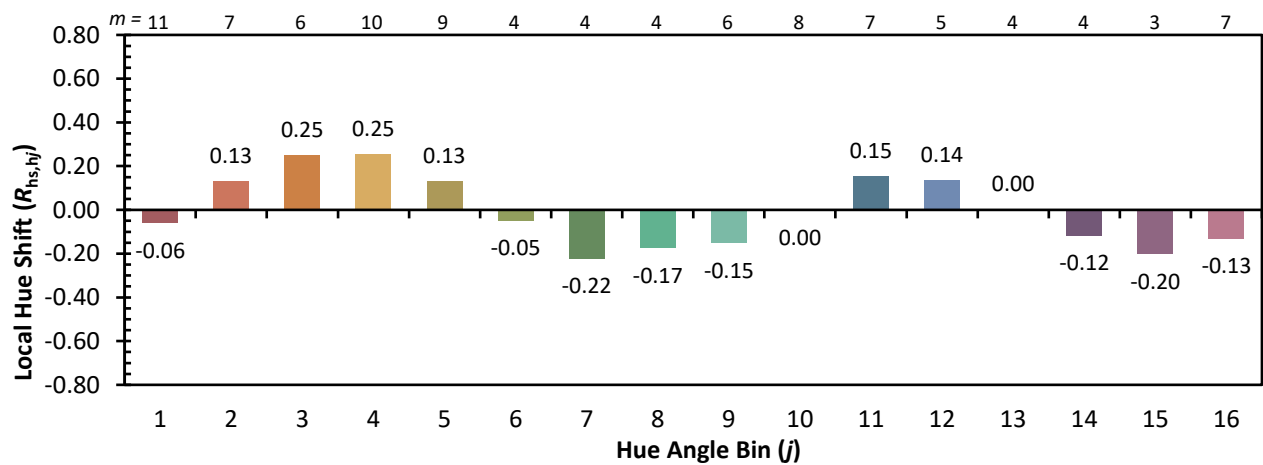
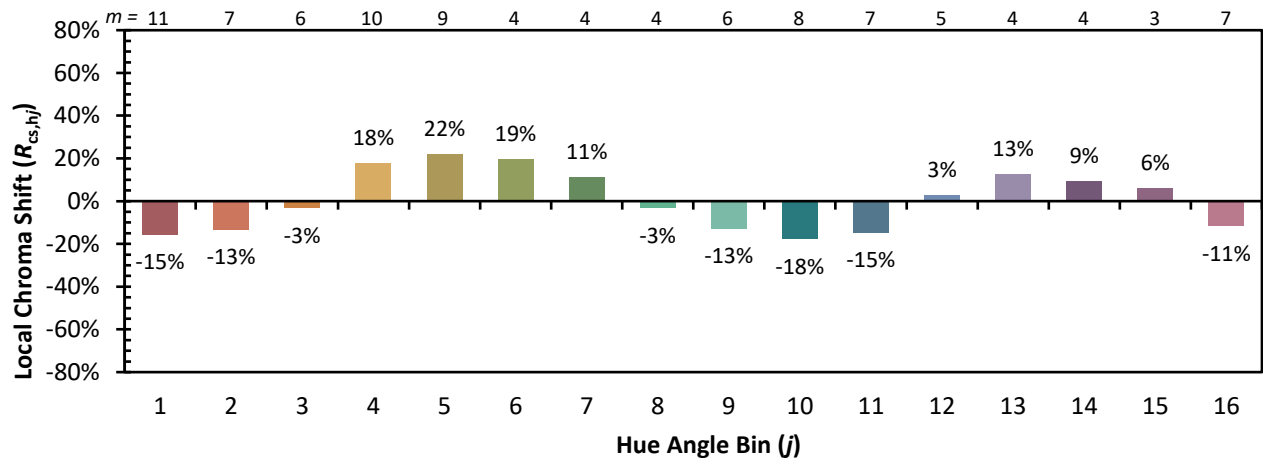


Individual Sample Fidelity Index ($R_{f,i}$)

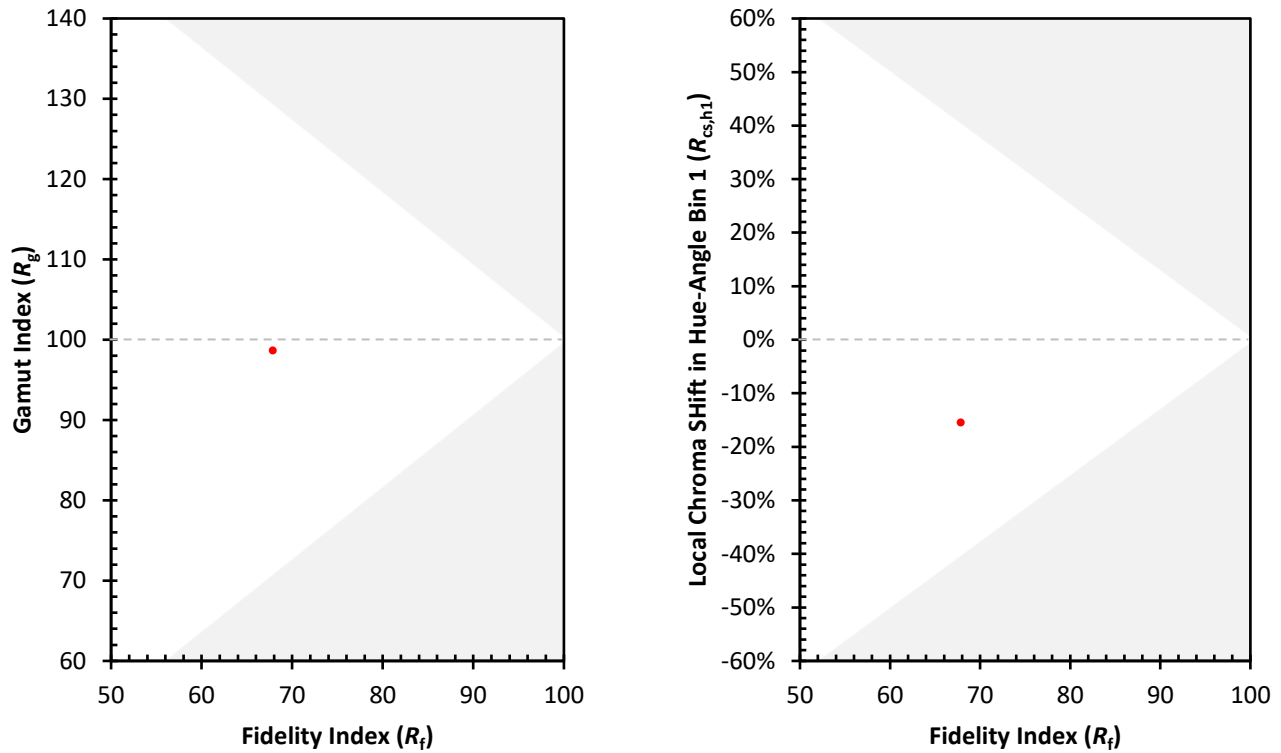
CES01 = 86	CES26 = 53	CES51 = 75	CES76 = 51
CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 54	CES82 = 92
CES08 = 41	CES33 = 45	CES58 = 59	CES83 = 82
CES09 = 29	CES34 = 67	CES59 = 85	CES84 = 92
CES10 = 77	CES35 = 84	CES60 = 86	CES85 = 87
CES11 = 60	CES36 = 68	CES61 = 86	CES86 = 60
CES12 = 66	CES37 = 77	CES62 = 59	CES87 = 79
CES13 = 44	CES38 = 40	CES63 = 66	CES88 = 70
CES14 = 74	CES39 = 88	CES64 = 69	CES89 = 66
CES15 = 72	CES40 = 82	CES65 = 64	CES90 = 64
CES16 = 48	CES41 = 70	CES66 = 65	CES91 = 81
CES17 = 51	CES42 = 76	CES67 = 64	CES92 = 69
CES18 = 57	CES43 = 63	CES68 = 73	CES93 = 81
CES19 = 73	CES44 = 97	CES69 = 83	CES94 = 53
CES20 = 67	CES45 = 74	CES70 = 64	CES95 = 77
CES21 = 88	CES46 = 67	CES71 = 60	CES96 = 79
CES22 = 80	CES47 = 55	CES72 = 87	CES97 = 78
CES23 = 92	CES48 = 42	CES73 = 57	CES98 = 69
CES24 = 92	CES49 = 65	CES74 = 84	CES99 = 60
CES25 = 73	CES50 = 74	CES75 = 60	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)