

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: STREETWORKS

Report Number: P1065145

Luminaire Tested: **GLAN-SA4A-722-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1065145
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4A-722-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 4xLight Square PACKAGE
70CRI 2200K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9722.9 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

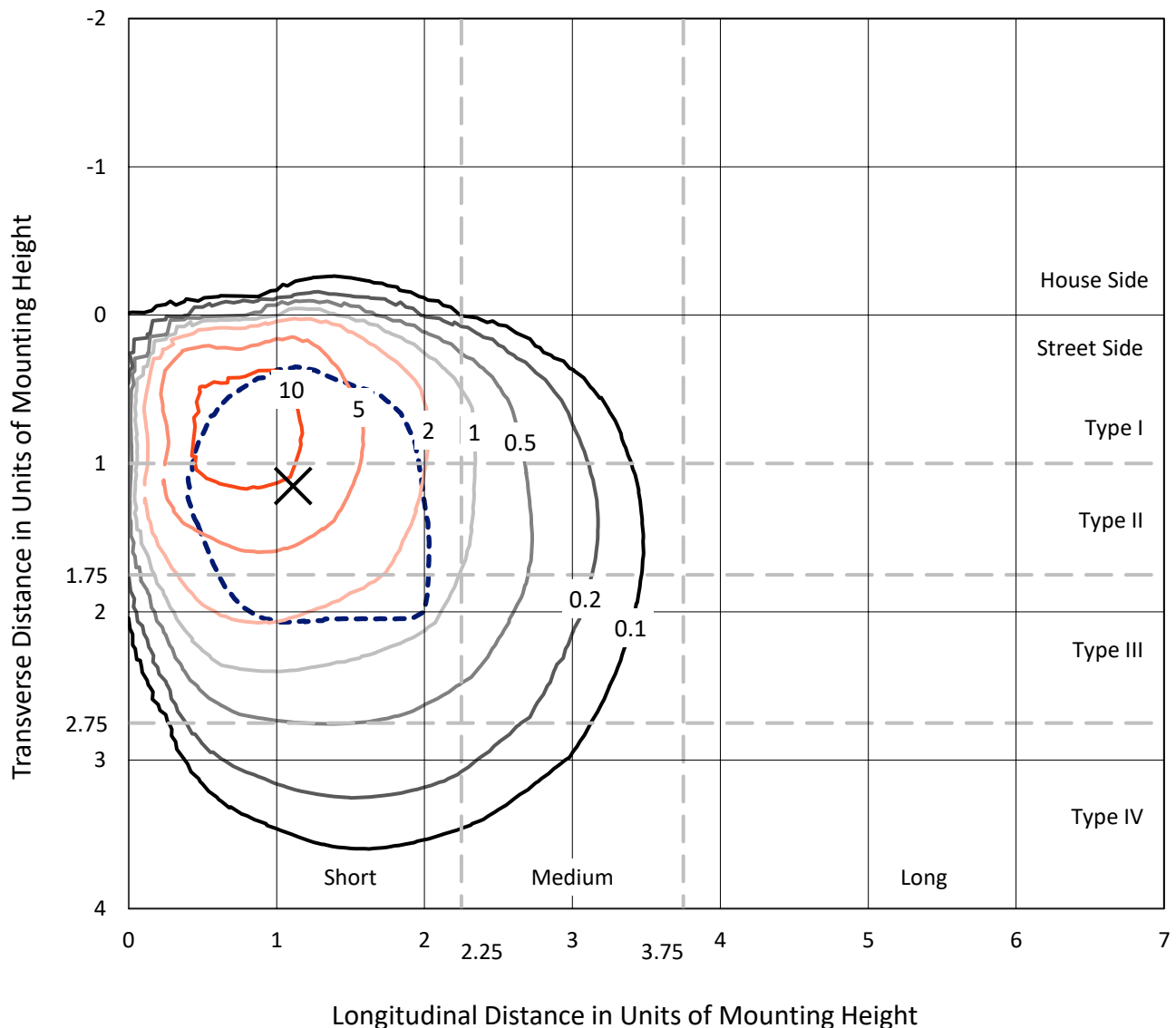
Input Watts (W): 107.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

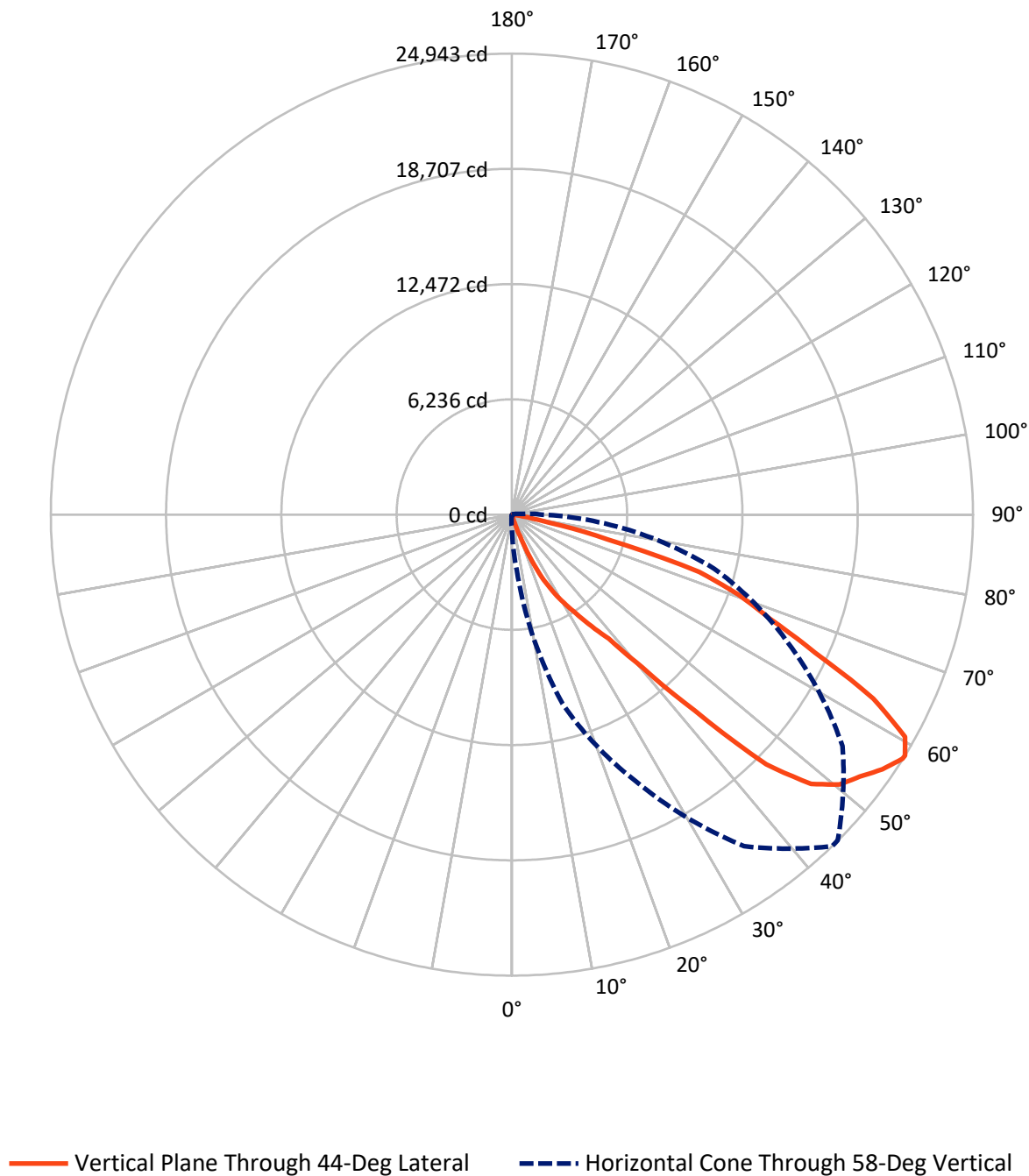
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 16.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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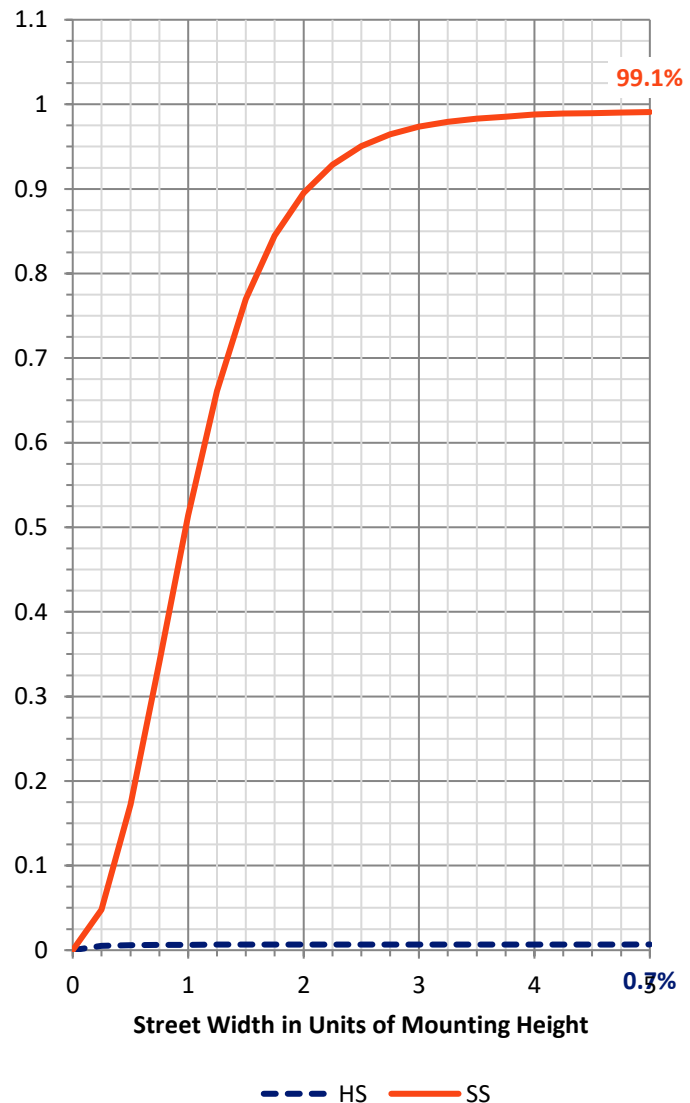
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	66.4	0.0	66.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	9656.5	0.0	9656.5
	% Fixture	99.3	0.0	99.3
Total	Lumens	9722.9	0.0	9722.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.8	0.0
10°-20°	21.3	0.2
20°-30°	230.3	2.4
30°-40°	681.2	7.0
40°-50°	2030.3	20.9
50°-60°	3221.6	33.1
60°-70°	2687.2	27.6
70°-80°	828.8	8.5
80°-90°	18.4	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°	9722.9	100.0
0°-180°	9722.9	100.0



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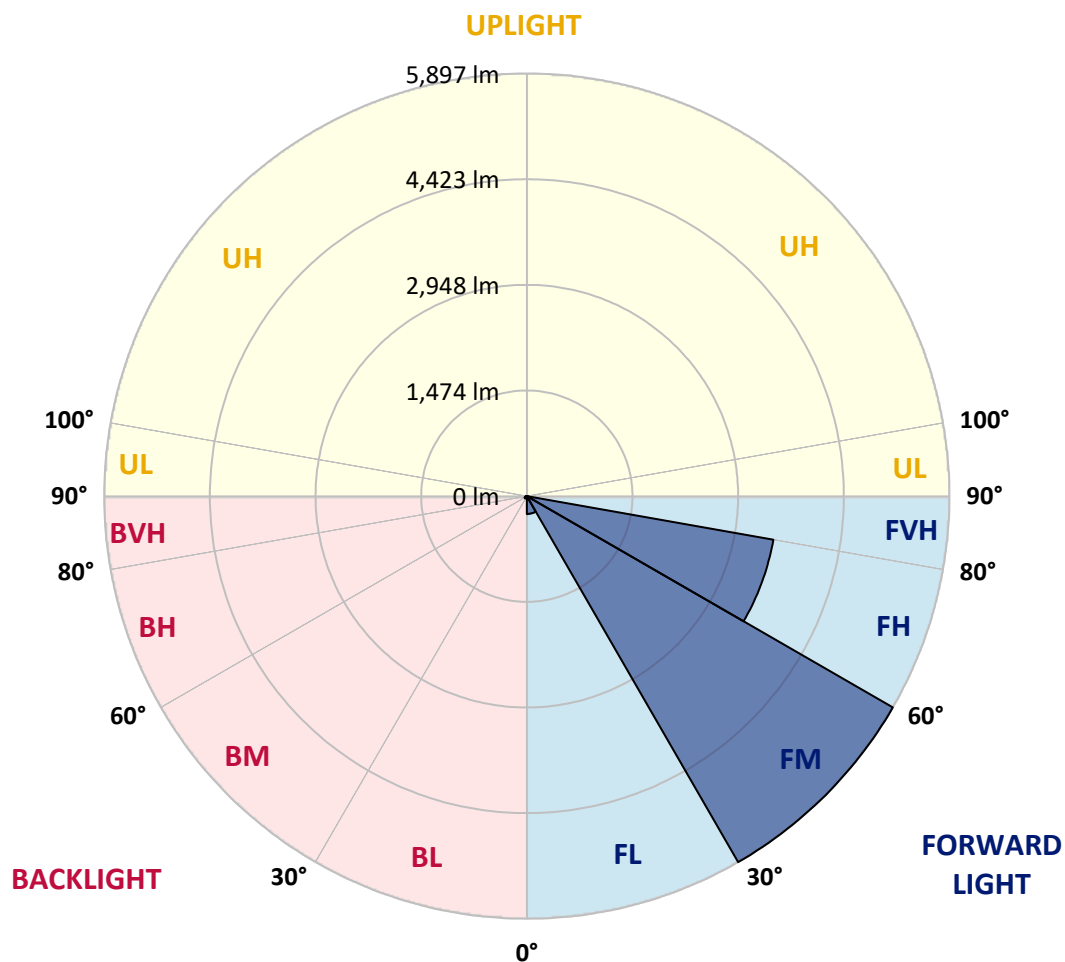
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	249.0	2.6			
FM	(30°-60°)	5896.7	60.6			
FH	(60°-80°)	3493.3	35.9			G2/5000
FVH	(80°-90°)	17.5	0.2			G1/100
BL	(0°-30°)	6.5	0.1	B0/110		
BM	(30°-60°)	36.3	0.4	B0/220		
BH	(60°-80°)	22.7	0.2	B0/110		G0/110
BVH	(80°-90°)	0.9	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°	85°
0°	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
2.5°	55.1	55.1	52.9	49.9	47.0	44.1	43.3	41.9	41.1	40.4	39.7
5°	57.3	57.3	56.6	54.4	51.4	49.2	49.2	47.0	45.5	44.1	42.6
7.5°	58.8	59.5	61.0	60.2	58.8	56.6	56.6	55.1	52.9	49.2	47.0
10°	61.0	63.2	66.1	67.6	68.3	68.3	67.6	66.8	63.2	58.0	52.1
12.5°	63.2	67.6	74.9	82.3	86.7	92.5	91.8	90.3	80.8	69.8	59.5
15°	67.6	74.2	89.6	110.9	144.0	164.5	172.6	165.3	133.7	94.0	69.0
17.5°	72.7	83.7	130.0	232.1	380.5	451.0	493.6	459.1	304.1	178.5	86.7
20°	77.9	102.1	241.6	601.5	987.1	1217.8	1281.7	1181.8	758.7	340.1	128.5
22.5°	86.7	143.2	489.9	1243.5	2127.1	2473.0	2538.4	2218.9	1433.0	671.3	193.2
25°	105.0	207.9	844.7	2026.4	3174.4	3758.3	3731.2	3312.5	2324.6	1072.3	293.8
27.5°	131.5	302.6	1277.3	2879.2	4177.7	4692.6	4754.3	4236.5	3098.8	1576.9	417.2
30°	169.7	419.4	1741.5	3562.2	4982.0	5538.7	5549.0	5013.6	3791.4	2019.8	568.5
32.5°	206.4	529.6	2147.6	4222.5	5774.5	6384.8	6430.4	5771.5	4308.5	2481.1	700.0
35°	234.3	601.5	2558.9	4802.8	6573.6	7414.6	7411.6	6629.4	4921.0	2893.1	882.1
37.5°	236.5	673.5	2931.3	5396.2	7585.7	8527.3	8620.6	7758.3	5661.4	3402.8	1105.4
40°	231.4	754.3	3402.8	6321.7	9409.4	10854.2	10936.4	9849.4	7146.5	4275.4	1454.3
42.5°	237.2	894.6	4168.2	8030.8	12437.7	14512.6	14671.2	13528.4	9876.6	6055.8	2076.4
45°	268.1	1158.3	5771.5	10890.1	16754.2	19283.8	19230.9	17584.9	13053.2	8766.0	3307.4
47.5°	370.2	1803.9	8148.3	13673.1	19512.9	21765.6	21811.1	19799.4	14907.0	10849.7	4965.1
50°	569.2	2760.2	10145.4	15144.3	20699.1	22959.1	22916.5	20591.9	15611.4	11875.8	5980.9
52.5°	740.4	3452.1	11147.2	15660.6	20851.2	23548.9	23546.0	20800.5	15720.8	11964.0	6107.9
55°	783.0	3504.2	11155.3	15688.5	21192.0	24320.9	24417.8	21313.9	15862.6	11579.1	5629.8
57.5°	766.1	3102.4	10689.6	15850.1	21798.6	24918.0	24923.1	21811.1	16222.5	11343.3	4838.0
58°	751.4	3039.3	10595.6	15941.9	21902.9	24943.0	24930.5	21833.9	16515.5	11334.5	4713.9
60°	669.1	2639.0	10229.1	16176.2	21748.0	24430.3	24313.5	21336.7	16472.2	11244.2	4088.9
62.5°	525.9	2058.7	9868.5	15905.2	20086.6	21948.5	21997.0	18890.1	15016.5	10717.5	3352.2
65°	418.7	1534.3	9116.4	13951.5	16540.5	18024.1	18204.8	15360.9	12533.9	9075.2	2471.5
67.5°	333.5	1109.1	7647.4	11107.5	13088.4	15042.9	15174.4	12896.7	9710.6	6953.3	1756.1
70°	271.0	749.9	5278.7	8123.4	10795.4	12993.0	13001.0	10713.9	7247.9	4556.0	1101.7
72.5°	240.2	519.3	3064.3	5924.3	8753.5	10587.5	10373.8	8694.0	5570.3	2698.5	656.6
75°	207.9	344.5	1502.7	3621.7	5307.4	5343.3	5424.9	4033.0	2784.4	1283.1	393.7
77.5°	171.1	244.6	592.0	989.3	1591.6	2037.4	2113.1	1601.2	926.2	315.8	210.1
80°	117.5	116.0	159.4	303.3	455.4	570.7	532.5	412.0	242.4	121.2	74.9
82.5°	50.7	55.1	72.0	86.7	70.5	68.3	65.4	41.9	32.3	25.0	15.4
85°	16.2	14.7	15.4	15.4	12.5	9.5	9.5	4.4	0.0	0.0	0.0
87.5°	8.1	6.6	6.6	5.9	3.7	1.5	0.7	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°	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
2.5°	38.9	38.9	37.5	36.0	35.3	33.8	33.1	32.3	31.6	30.8	30.1
5°	41.1	40.4	38.2	36.0	33.8	31.6	30.1	28.6	27.2	26.4	25.7
7.5°	44.8	43.3	38.9	35.3	32.3	29.4	27.9	25.7	24.2	22.0	21.3
10°	49.2	46.3	40.4	36.0	31.6	27.9	25.7	23.5	21.3	18.4	17.6
12.5°	55.1	49.9	42.6	35.3	30.1	25.7	23.5	20.6	18.4	16.2	14.7
15°	60.2	53.6	43.3	35.3	28.6	23.5	20.6	17.6	15.4	12.5	11.0
17.5°	67.6	56.6	42.6	33.1	26.4	20.6	17.6	15.4	11.8	7.3	5.9
20°	80.1	58.8	41.1	30.8	22.8	16.9	13.2	10.3	5.1	1.5	0.0
22.5°	99.9	64.6	39.7	27.9	19.8	13.2	8.8	3.7	0.0	0.0	0.0
25°	138.1	74.9	39.7	26.4	17.6	9.5	2.9	0.0	0.0	0.0	0.0
27.5°	183.6	88.9	39.7	22.8	14.0	5.1	0.0	0.0	0.0	0.0	0.0
30°	229.9	104.3	39.7	19.8	11.0	0.7	0.0	0.0	0.0	0.0	0.0
32.5°	274.0	117.5	40.4	16.9	7.3	0.0	0.0	0.0	0.0	0.0	0.0
35°	318.8	119.7	39.7	14.7	4.4	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	376.1	115.3	37.5	13.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
40°	462.7	117.5	35.3	12.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	622.8	127.1	32.3	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1076.7	170.4	29.4	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1781.1	306.3	28.6	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2273.2	385.6	30.1	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2269.5	429.7	31.6	14.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0
55°	2017.6	437.8	33.8	16.2	9.5	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1686.4	399.6	38.9	19.8	17.6	0.0	0.0	0.0	0.0	0.0	0.0
58°	1627.6	381.9	40.4	20.6	19.1	0.0	0.0	0.0	0.0	0.0	0.0
60°	1333.8	311.4	51.4	25.7	25.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	921.0	271.8	58.8	33.1	26.4	0.0	0.0	0.0	0.0	0.0	0.0
65°	651.5	245.3	63.9	35.3	21.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	487.0	226.2	70.5	36.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	373.1	212.3	86.7	38.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	304.1	196.1	105.0	39.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	251.9	177.0	101.4	43.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	167.5	137.3	92.5	43.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	58.8	54.4	72.0	38.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.8	7.3	10.3	13.2	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°	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
2.5°	30.1	30.1	29.4	30.1	30.1	31.6	35.3	40.4	46.3	48.5	50.7
5°	25.0	24.2	23.5	23.5	23.5	25.7	28.6	34.5	41.1	44.1	45.5
7.5°	20.6	19.8	19.1	18.4	18.4	19.8	23.5	30.1	36.7	39.7	41.9
10°	16.9	15.4	14.7	14.0	14.0	15.4	19.1	25.7	33.1	36.0	38.9
12.5°	14.0	11.8	10.3	9.5	8.8	11.0	14.7	20.6	28.6	32.3	35.3
15°	9.5	7.3	5.1	4.4	3.7	5.9	9.5	16.2	24.2	28.6	31.6
17.5°	5.1	2.2	0.7	0.0	0.0	1.5	4.4	11.8	19.8	23.5	27.2
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	14.7	18.4	22.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	8.8	12.5	16.2
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	6.6	9.5
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	4.4
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	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.9	8.1
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):

	285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
0°	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
2.5°	52.1	51.4	49.9	48.5	48.5	48.5	50.7	52.9	55.1	55.1
5°	48.5	48.5	47.7	46.3	46.3	47.0	49.9	53.6	56.6	57.3
7.5°	44.8	46.3	44.8	44.1	44.8	45.5	48.5	52.9	57.3	58.8
10°	42.6	43.3	43.3	42.6	42.6	44.1	47.0	52.9	58.8	61.0
12.5°	39.7	41.1	40.4	40.4	40.4	41.9	45.5	52.1	60.2	63.2
15°	36.7	38.9	38.9	38.2	38.2	38.9	44.1	51.4	62.4	67.6
17.5°	33.8	36.0	36.7	35.3	35.3	36.7	41.9	51.4	63.9	72.7
20°	27.9	31.6	33.8	31.6	31.6	33.1	38.2	48.5	64.6	77.9
22.5°	22.0	25.7	28.6	27.9	27.9	28.6	35.3	46.3	65.4	86.7
25°	16.2	19.8	22.0	23.5	23.5	25.7	32.3	44.8	68.3	105.0
27.5°	9.5	14.0	16.9	18.4	19.1	22.0	30.1	43.3	73.4	131.5
30°	4.4	8.1	11.8	14.7	14.7	19.8	27.9	41.9	80.1	169.7
32.5°	0.0	3.7	5.9	10.3	11.0	16.2	25.7	40.4	89.6	206.4
35°	0.0	0.0	2.9	8.1	8.1	13.2	23.5	38.9	104.3	234.3
37.5°	0.0	0.0	0.0	5.9	6.6	11.8	22.8	38.2	107.2	236.5
40°	0.0	0.0	0.0	4.4	5.1	11.0	22.8	38.9	97.0	231.4
42.5°	0.0	0.0	0.0	2.9	3.7	11.0	22.8	40.4	87.4	237.2
45°	0.0	0.0	0.0	2.2	2.9	11.8	22.0	39.7	82.3	268.1
47.5°	0.0	0.0	0.0	2.9	4.4	11.8	21.3	38.9	83.0	370.2
50°	0.0	0.0	0.0	3.7	5.1	11.8	22.0	37.5	91.1	569.2
52.5°	0.0	0.0	0.0	2.9	4.4	13.2	24.2	36.7	99.2	740.4
55°	0.0	0.0	0.0	0.7	2.2	16.9	26.4	36.7	111.6	783.0
57.5°	0.0	0.0	0.0	0.0	0.0	19.1	30.1	38.9	132.2	766.1
58°	0.0	0.0	0.0	0.0	0.0	19.1	30.8	38.9	133.7	751.4
60°	0.0	0.0	0.0	0.0	0.0	19.1	33.8	43.3	144.0	669.1
62.5°	0.0	0.0	0.0	0.0	0.0	16.2	40.4	54.4	149.8	525.9
65°	0.0	0.0	0.0	0.0	0.0	13.2	47.7	59.5	154.2	418.7
67.5°	0.0	0.0	0.0	0.0	0.0	12.5	49.2	60.2	156.4	333.5
70°	0.0	0.0	0.0	0.0	0.0	13.2	48.5	64.6	163.8	271.0
72.5°	0.0	0.0	0.0	0.0	0.0	14.7	44.1	71.2	163.8	240.2
75°	0.0	0.0	0.0	0.0	0.0	15.4	41.1	80.1	149.1	207.9
77.5°	0.0	0.0	0.0	0.0	0.0	14.7	40.4	93.3	132.9	171.1
80°	1.5	2.2	2.2	1.5	1.5	12.5	39.7	94.7	113.1	117.5
82.5°	4.4	5.9	5.1	3.7	3.7	11.0	35.3	79.3	58.8	50.7
85°	8.1	9.5	9.5	8.1	8.1	10.3	22.0	28.6	19.8	16.2
87.5°	11.0	12.5	12.5	11.0	11.0	10.3	9.5	8.8	8.1	8.1
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: SP1-2407-184-2

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-722-U-5WQ

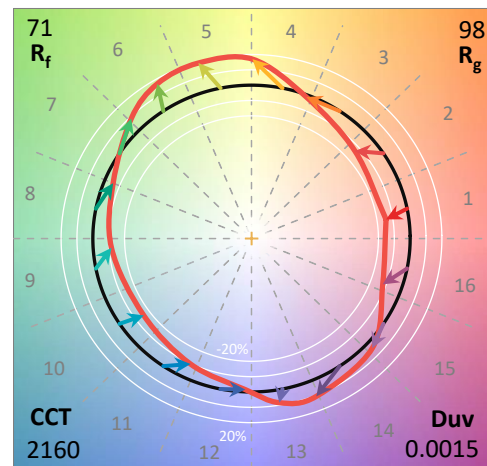
Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-2
 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-722-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2200K CCT 26 LEDS

Spectral Parameters

CCT (K):	2160	CRI (Ra):	71.9		
CIE u':	0.2927	R1:	68.7	R9:	-17.8
CIE v':	0.5388	R2:	82.6	R10:	60.5
Duv:	0.0015	R3:	95.5	R11:	60.2
CIE x:	0.5130	R4:	66.4	R12:	48.2
CIE y:	0.4197	R5:	65.4	R13:	70.7
CIE z:	0.0674	R6:	75.9	R14:	96.8
Peak Wavelength (nm):	609	R7:	77.2	R15:	61.8
Dominant Wavelength (nm):	587	R8:	43.5		
Purity:	79.96089				
Rf:	70.6				
Rg:	97.6				



Test Conditions

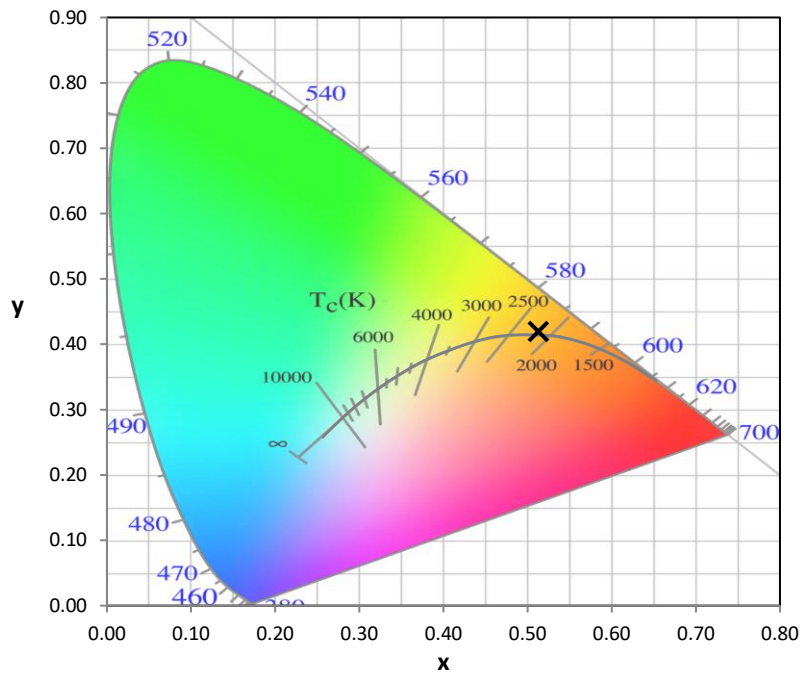
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-2

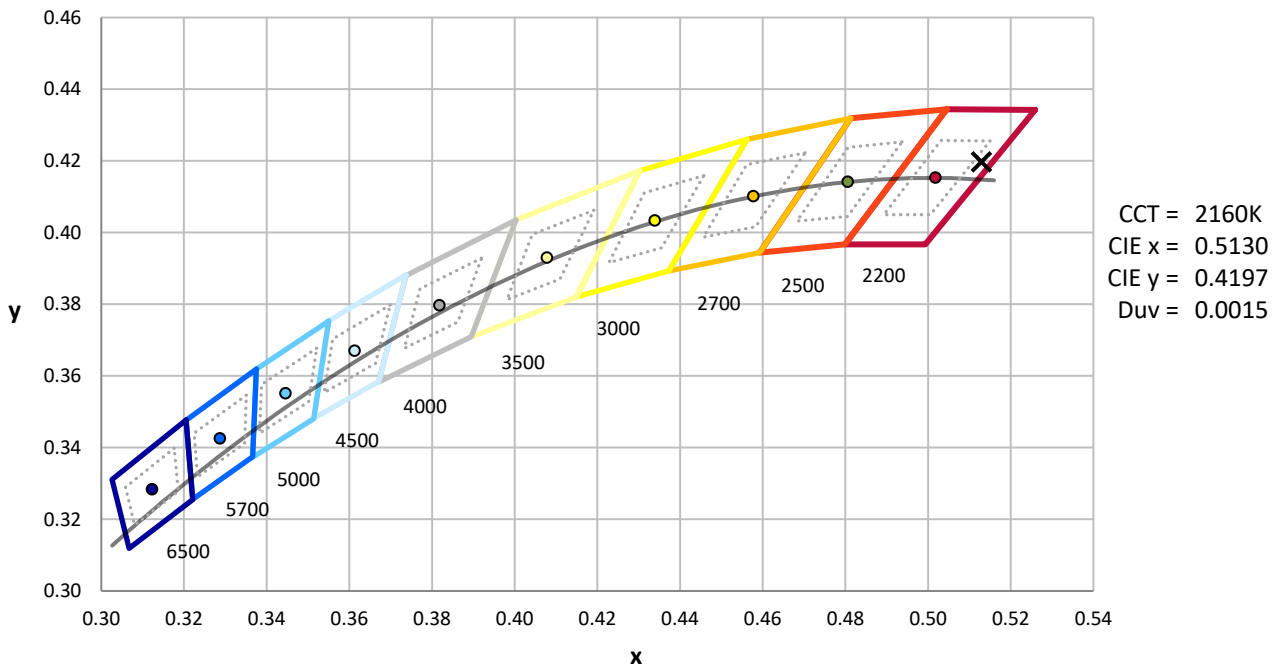
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



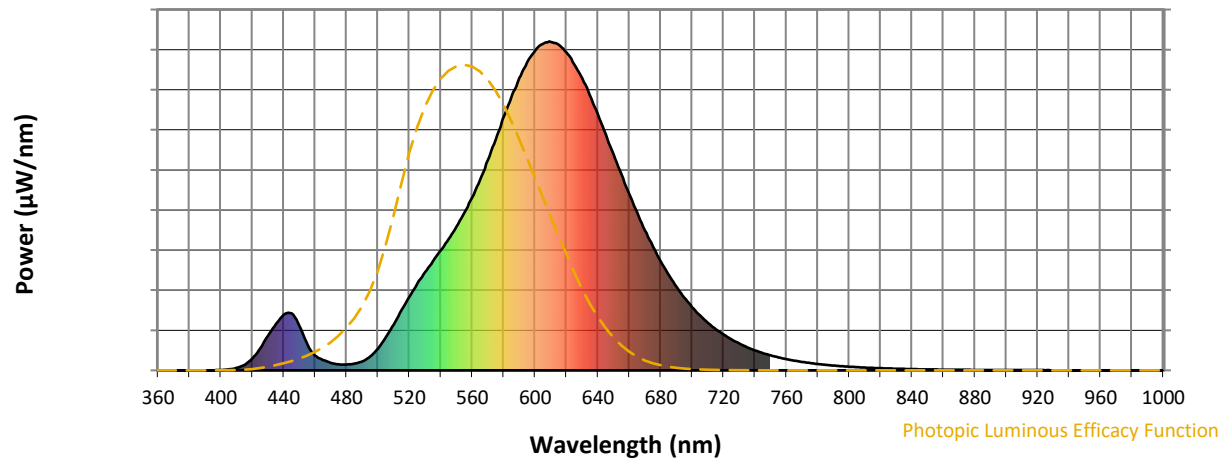
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

Photopic Flux vs. Wavelength

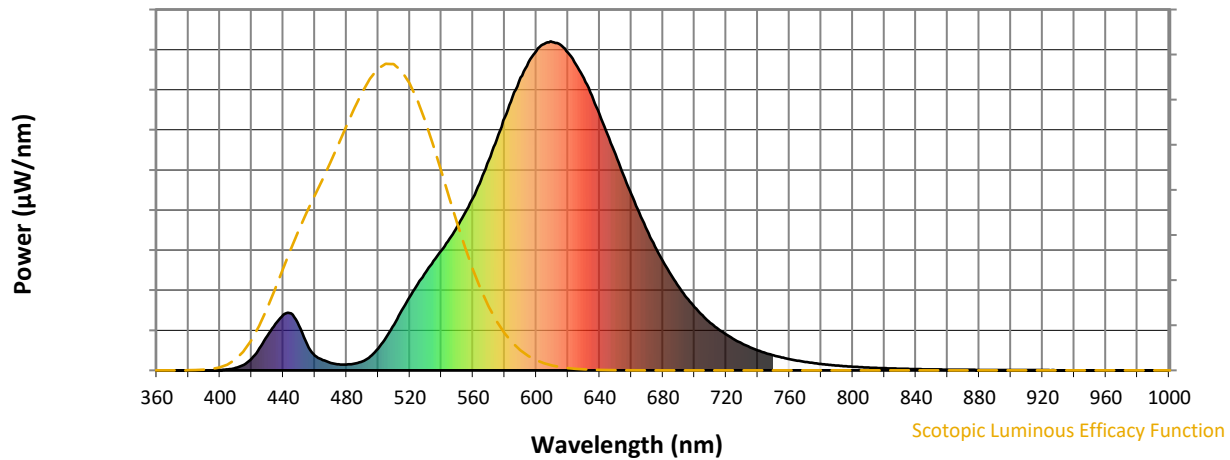


Photopic Lumens: NR

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

Scotopic Flux vs. Wavelength



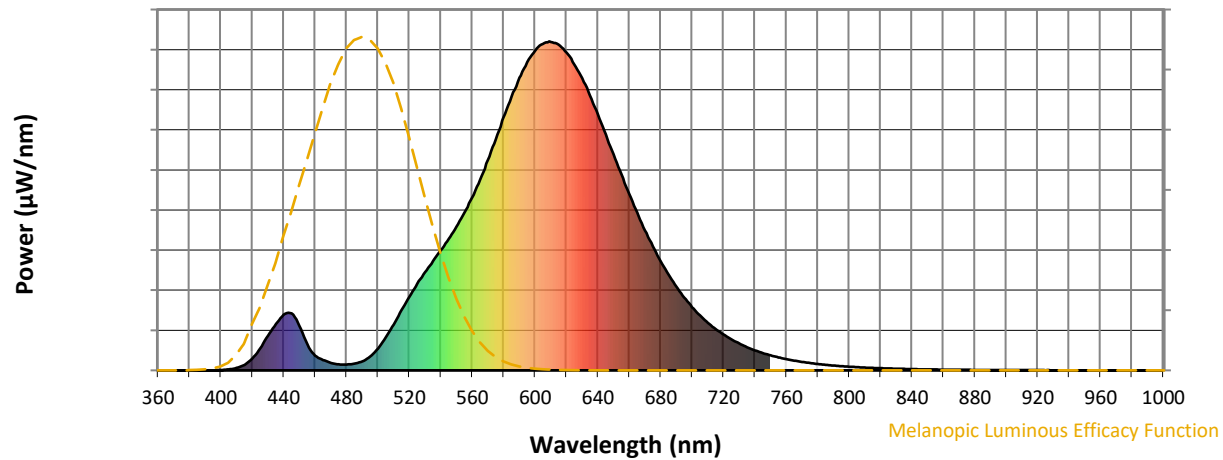
Scotopic Lumens: NR

S/P: 0.8

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.21

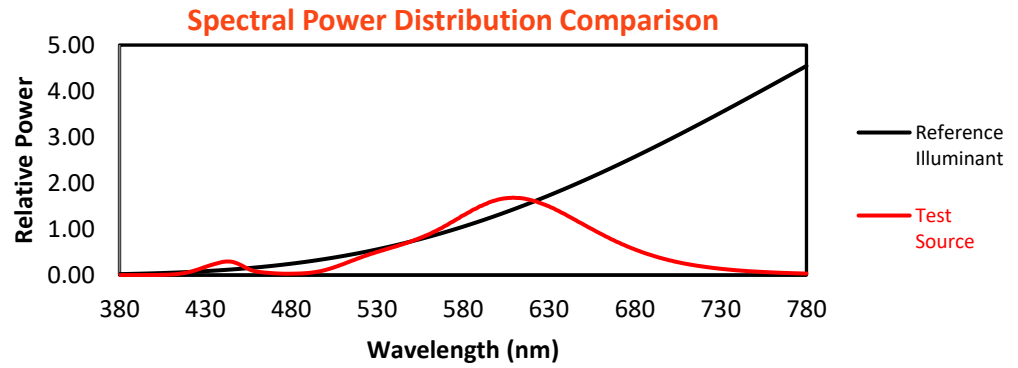
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

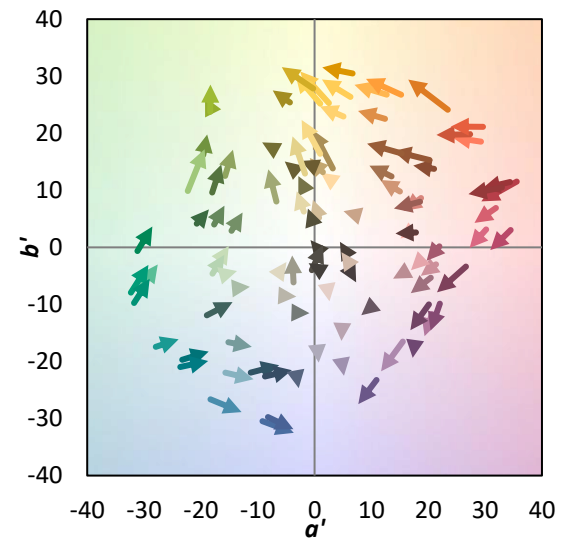
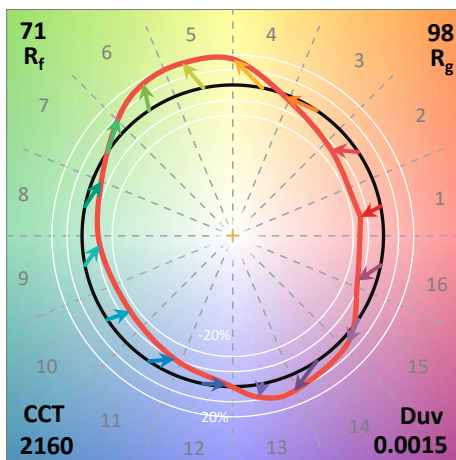
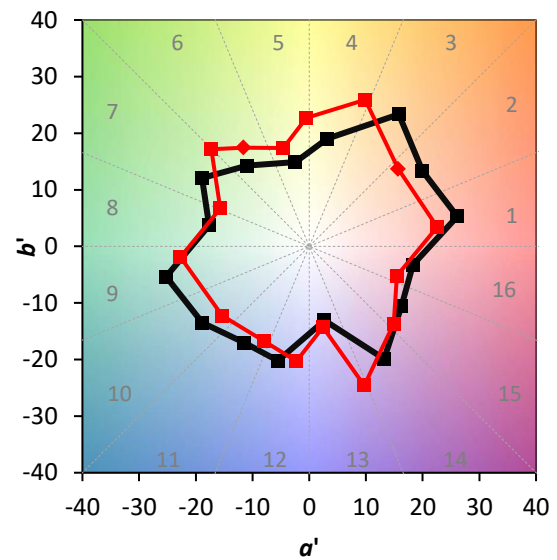
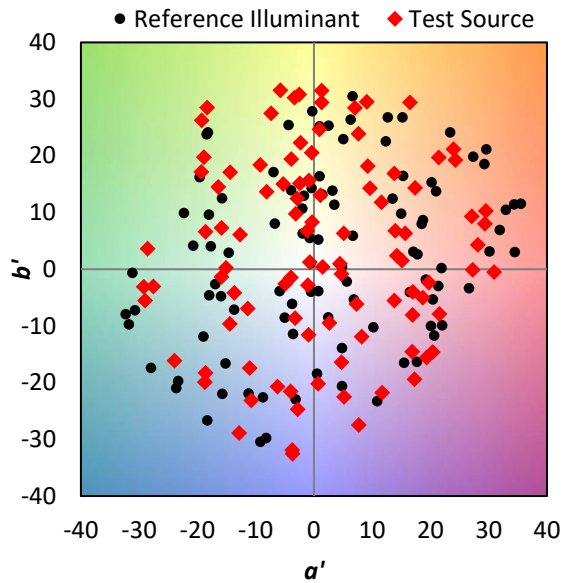
TM-30-18

Summary

$R_f = 70.6$
 $R_g = 97.6$
 $CIE\ R_a = 71.9$
 $R_g = -17.8$

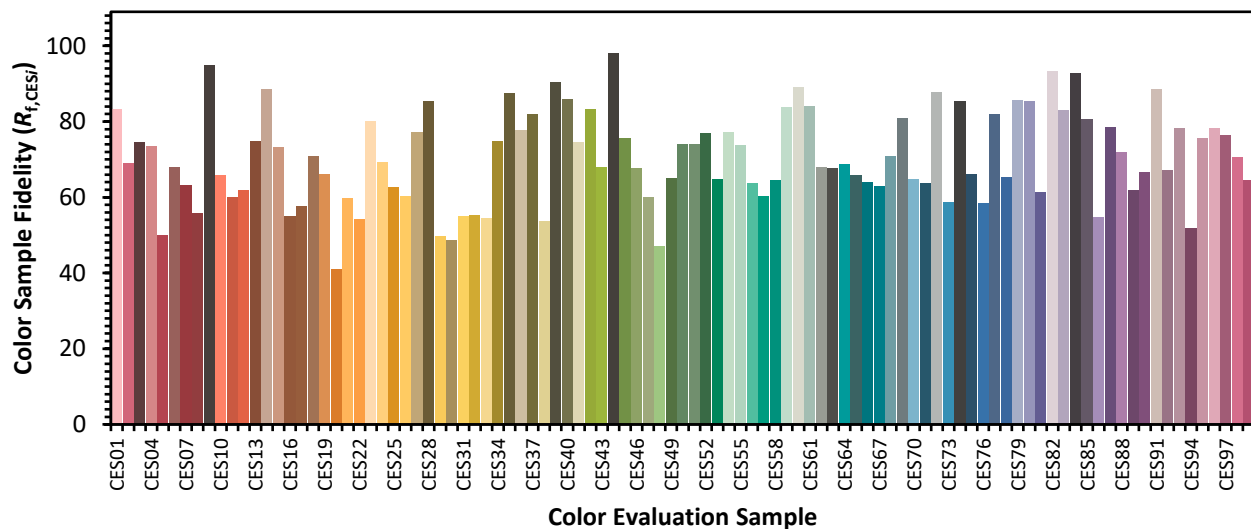


Color Vector Graphics

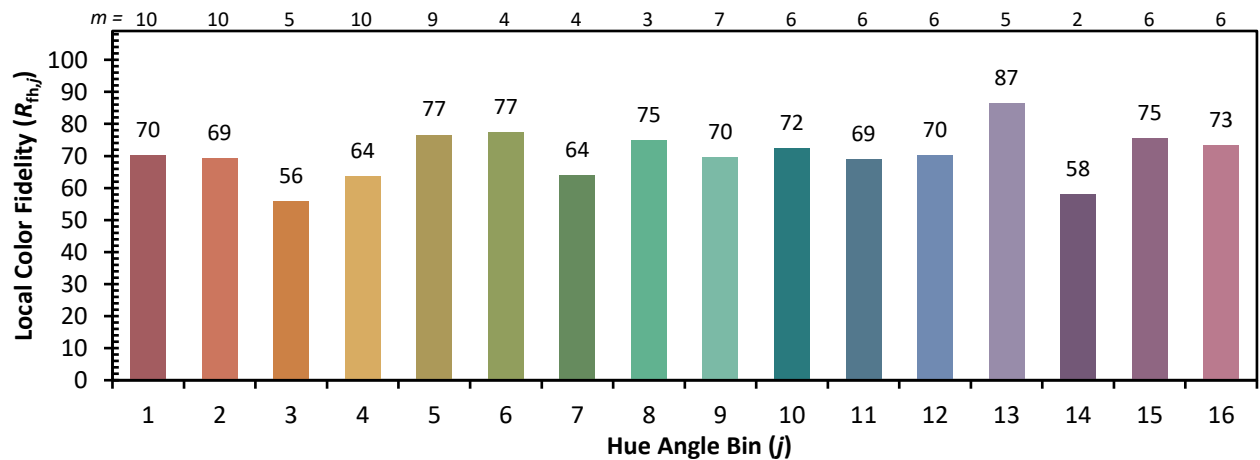
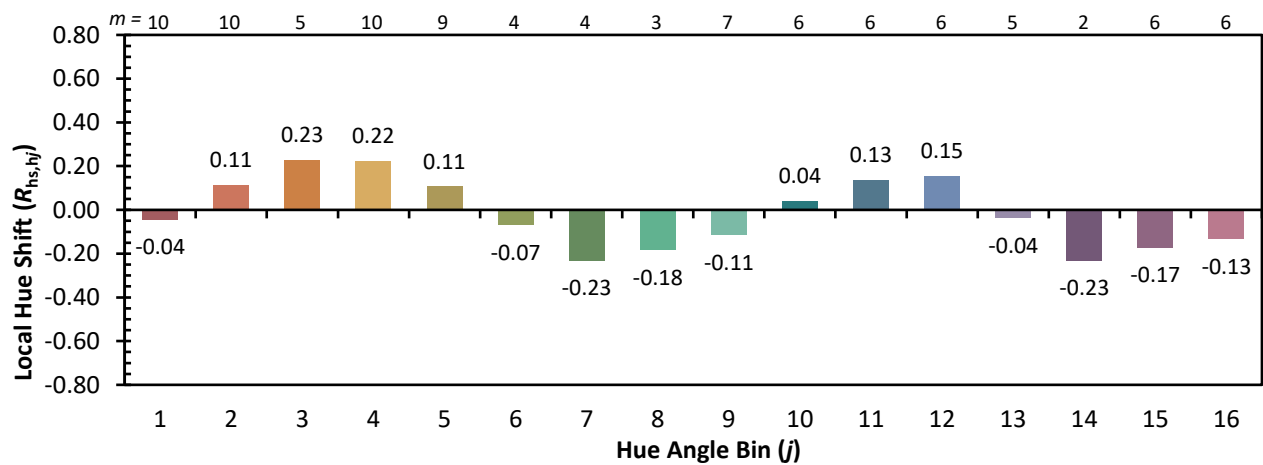
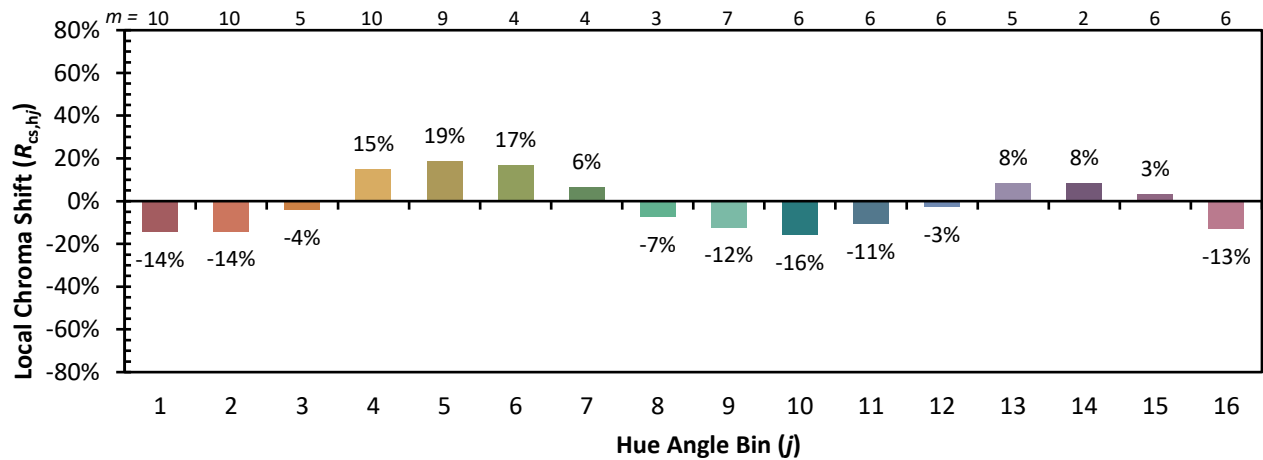


Individual Sample Fidelity Index ($R_{f,i}$)

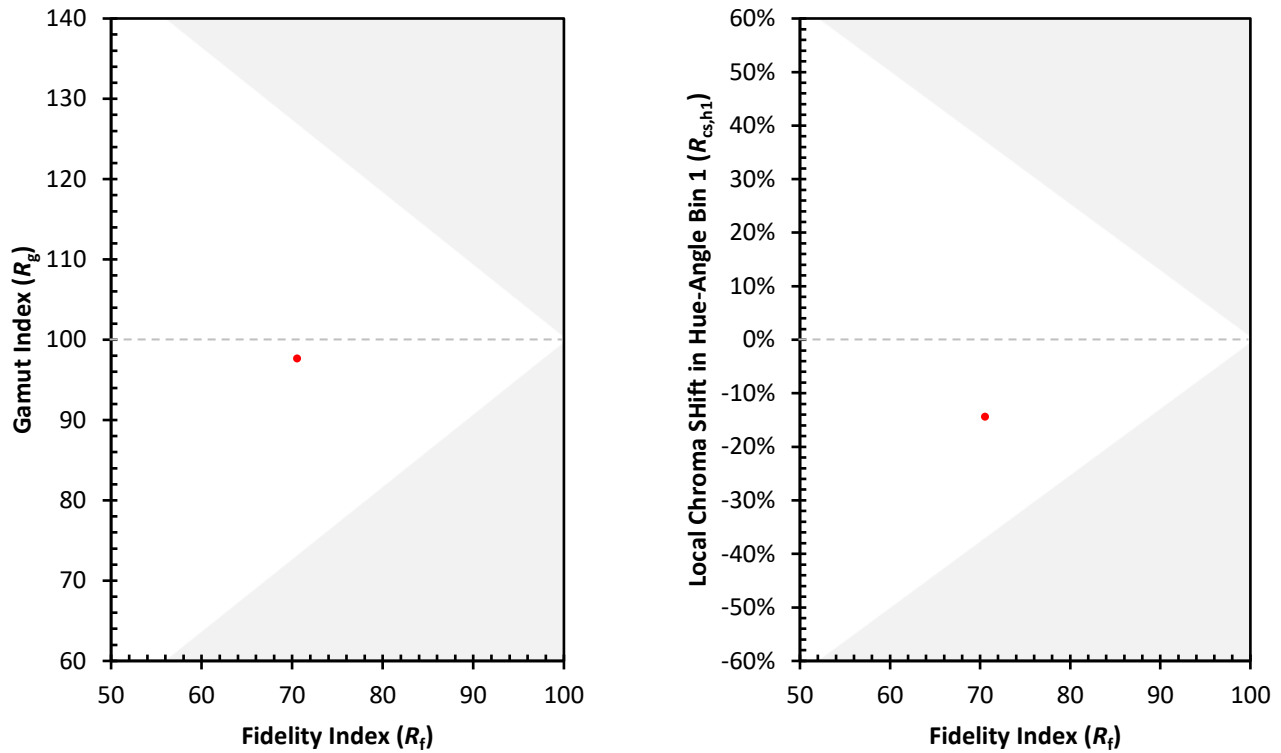
CES01 = 87	CES26 = 60	CES51 = 74	CES76 = 58
CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82 = 93
CES08 = 43	CES33 = 55	CES58 = 64	CES83 = 83
CES09 = 29	CES34 = 75	CES59 = 84	CES84 = 93
CES10 = 79	CES35 = 88	CES60 = 89	CES85 = 81
CES11 = 62	CES36 = 78	CES61 = 84	CES86 = 55
CES12 = 68	CES37 = 82	CES62 = 68	CES87 = 79
CES13 = 45	CES38 = 54	CES63 = 68	CES88 = 72
CES14 = 75	CES39 = 90	CES64 = 69	CES89 = 62
CES15 = 72	CES40 = 86	CES65 = 66	CES90 = 67
CES16 = 49	CES41 = 75	CES66 = 64	CES91 = 89
CES17 = 51	CES42 = 83	CES67 = 63	CES92 = 67
CES18 = 57	CES43 = 68	CES68 = 71	CES93 = 78
CES19 = 74	CES44 = 98	CES69 = 81	CES94 = 52
CES20 = 68	CES45 = 76	CES70 = 65	CES95 = 76
CES21 = 89	CES46 = 68	CES71 = 64	CES96 = 78
CES22 = 81	CES47 = 60	CES72 = 88	CES97 = 76
CES23 = 92	CES48 = 47	CES73 = 59	CES98 = 71
CES24 = 92	CES49 = 65	CES74 = 85	CES99 = 65
CES25 = 74	CES50 = 74	CES75 = 66	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)