

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: P1049578

Luminaire Tested: **GALN-SA3B-730-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049578
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-730-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 3xLight Square PACKAGE
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12456 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

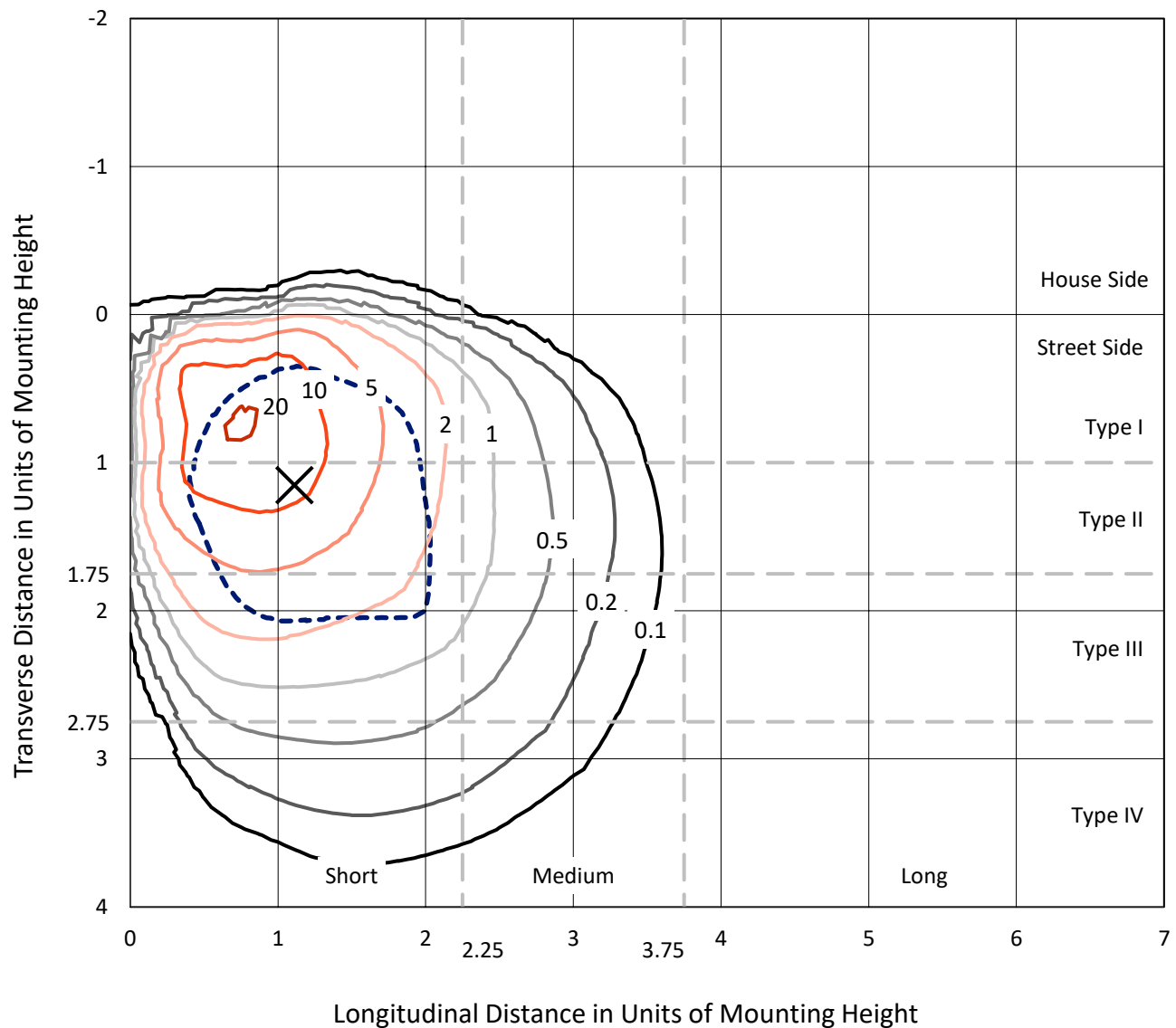
Input Watts (W): 106.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

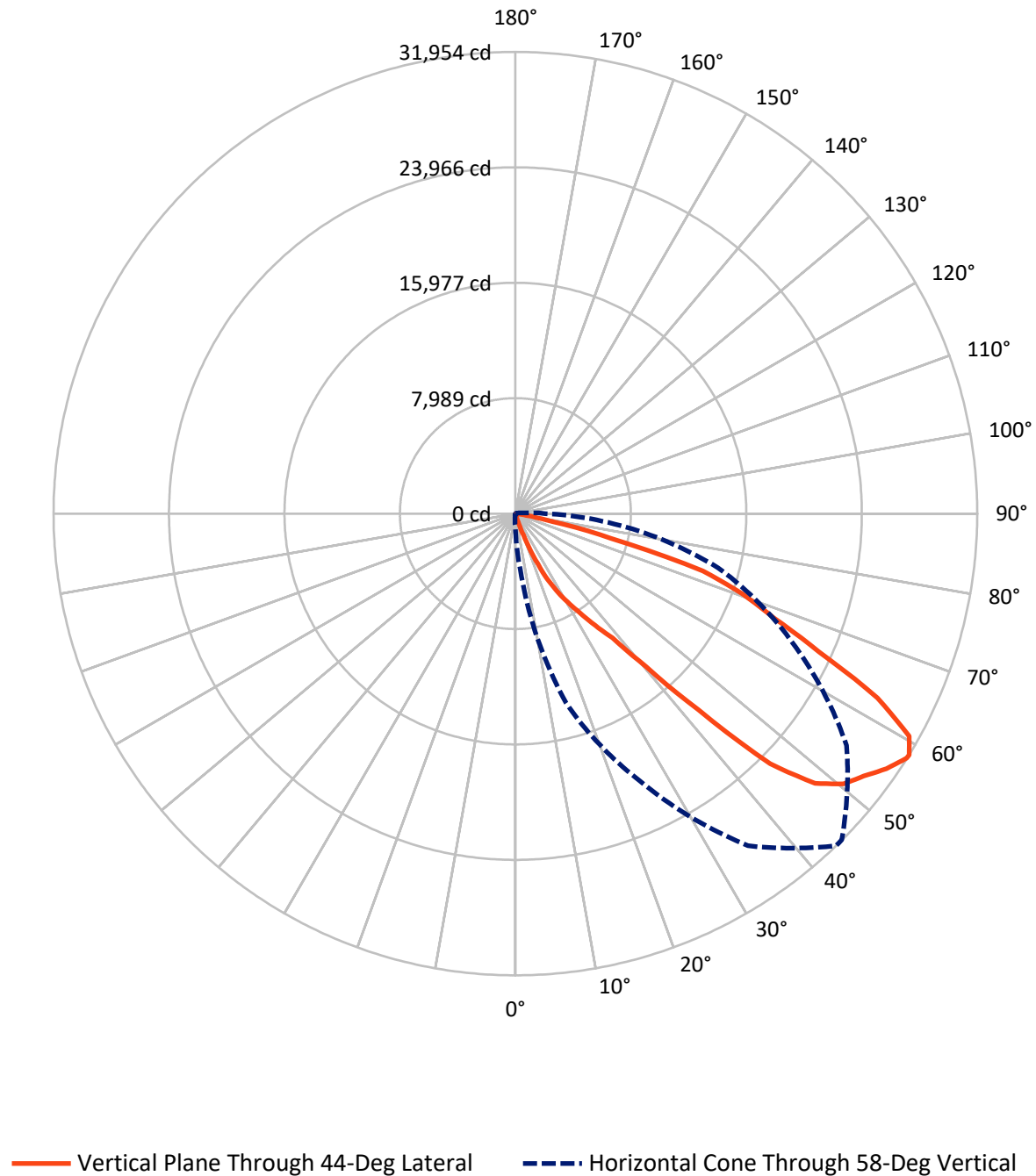
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 21.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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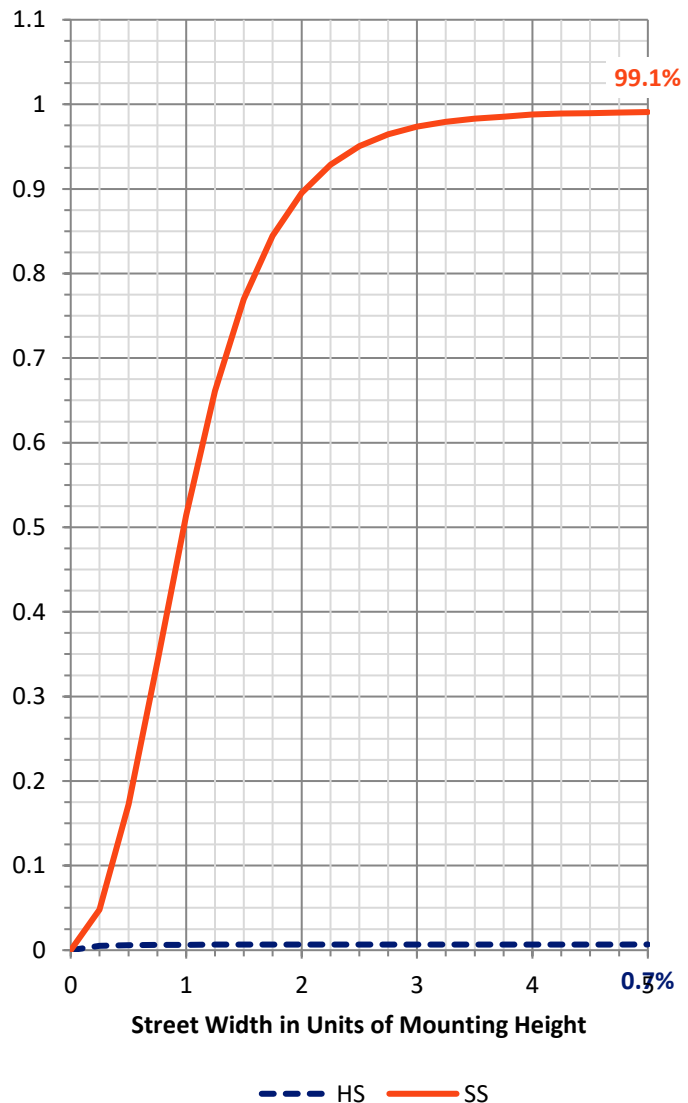
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	85.1	0.0	85.1
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	12370.9	0.0	12370.9
	% Fixture	99.3	0.0	99.3
Total	Lumens	12456.0	0.0	12456.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.9	0.0
10°-20°	27.3	0.2
20°-30°	295.1	2.4
30°-40°	872.7	7.0
40°-50°	2601.0	20.9
50°-60°	4127.2	33.1
60°-70°	3442.5	27.6
70°-80°	1061.7	8.5
80°-90°	23.6	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°	12456.0	100.0
0°-180°	12456.0	100.0



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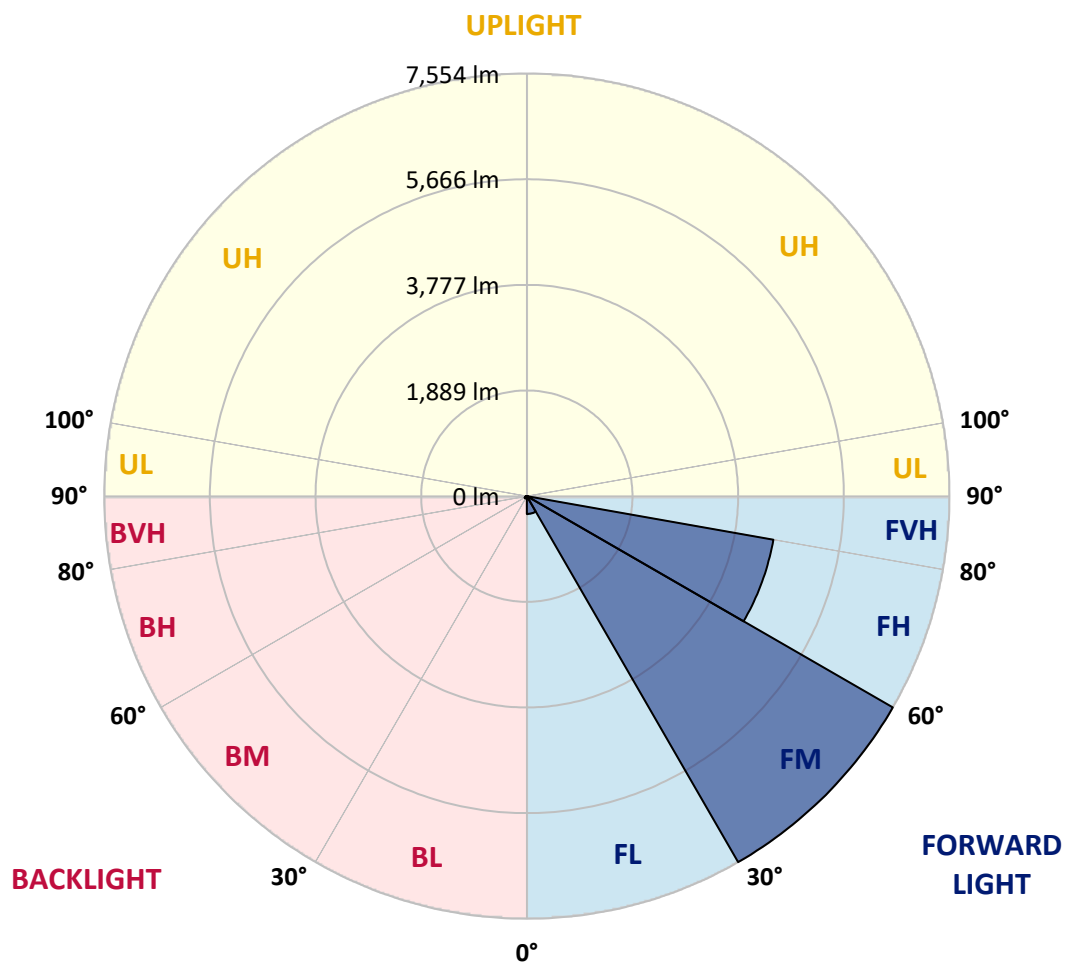
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	318.9	2.6			
FM	(30°-60°)	7554.3	60.6			
FH	(60°-80°)	4475.2	35.9			G2/5000
FVH	(80°-90°)	22.4	0.2			G1/100
BL	(0°-30°)	8.3	0.1	B0/110		
BM	(30°-60°)	46.6	0.4	B0/220		
BH	(60°-80°)	29.0	0.2	B0/110		G0/110
BVH	(80°-90°)	1.1	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°	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
2.5°	70.6	70.6	67.7	64.0	60.2	56.5	55.5	53.6	52.7	51.8
5°	73.4	73.4	72.5	69.6	65.9	63.0	63.0	60.2	58.3	56.5
7.5°	75.3	76.2	78.1	77.2	75.3	72.5	72.5	70.6	67.7	63.0
10°	78.1	80.9	84.7	86.6	87.5	87.5	86.6	85.6	80.9	74.3
12.5°	80.9	86.6	96.0	105.4	111.0	118.6	117.6	115.7	103.5	89.4
15°	86.6	95.0	114.8	142.1	184.4	210.8	221.1	211.7	171.3	120.4
17.5°	93.2	107.3	166.5	297.3	487.4	577.7	632.3	588.1	389.6	228.6
20°	99.7	130.8	309.6	770.6	1264.6	1560.1	1641.9	1514.0	972.0	435.7
22.5°	111.0	183.5	627.6	1593.0	2725.0	3168.2	3251.9	2842.6	1835.8	860.0
25°	134.6	266.3	1082.1	2596.1	4066.8	4814.8	4780.0	4243.6	2978.1	1373.8
27.5°	168.4	387.7	1636.3	3688.5	5352.1	6011.7	6090.7	5427.4	3969.8	2020.2
30°	217.4	537.3	2231.0	4563.6	6382.4	7095.6	7108.8	6422.9	4857.1	2587.6
32.5°	264.4	678.4	2751.3	5409.5	7397.7	8179.6	8237.9	7393.9	5519.6	3178.5
35°	300.2	770.6	3278.2	6152.8	8421.4	9498.8	9495.0	8492.9	6304.3	3706.4
37.5°	303.0	862.8	3755.3	6913.1	9718.1	10924.3	11043.8	9939.2	7252.8	4359.4
40°	296.4	966.3	4359.4	8098.7	12054.4	13905.2	14010.6	12618.0	9155.4	5477.2
42.5°	303.9	1146.1	5339.8	10288.3	15933.9	18592.1	18795.3	17331.2	12652.9	7758.1
45°	343.4	1483.9	7393.9	13951.4	21463.8	24704.4	24636.7	22528.0	16722.4	11230.1
47.5°	474.2	2311.0	10438.8	17516.6	24998.0	27883.9	27942.2	25365.0	19097.4	13899.6
50°	729.2	3536.1	12997.2	19401.3	26517.6	29412.9	29358.3	26380.3	19999.7	15214.1
52.5°	948.5	4422.4	14280.7	20062.8	26712.4	30168.5	30164.7	26647.5	20139.9	15327.0
55°	1003.0	4489.2	14291.0	20098.5	27149.0	31157.4	31281.6	27305.2	20321.5	14834.0
57.5°	981.4	3974.5	13694.5	20305.5	27926.2	31922.4	31929.0	27942.2	20782.6	14531.9
58°	962.6	3893.6	13574.0	20423.2	28059.8	31954.4	31938.4	27971.4	21158.0	14520.6
60°	857.2	3380.8	13104.5	20723.3	27861.3	31297.6	31148.0	27334.4	21102.5	14404.9
62.5°	673.7	2637.5	12642.5	20376.1	25732.9	28118.2	28180.3	24200.1	19237.6	13730.2
65°	536.3	1965.6	11679.0	17873.2	21190.0	23090.7	23322.2	19678.9	16057.2	11626.3
67.5°	427.2	1420.8	9797.1	14229.9	16767.6	19271.4	19439.9	16522.0	12440.2	8907.9
70°	347.2	960.7	6762.6	10406.8	13830.0	16645.3	16655.6	13725.5	9285.2	5836.7
72.5°	307.7	665.2	3925.6	7589.6	11214.2	13563.7	13289.9	11137.9	7136.1	3457.0
75°	266.3	441.3	1925.2	4639.8	6799.2	6845.4	6949.8	5166.7	3567.1	1643.8
77.5°	219.2	313.3	758.4	1267.4	2039.0	2610.2	2707.1	2051.3	1186.5	404.6
80°	150.6	148.7	204.2	388.6	583.4	731.1	682.2	527.9	310.5	155.3
82.5°	64.9	70.6	92.2	111.0	90.3	87.5	83.7	53.6	41.4	32.0
85°	20.7	18.8	19.8	19.8	16.0	12.2	12.2	5.6	0.0	0.0
87.5°	10.4	8.5	8.5	7.5	4.7	1.9	0.9	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°
54.6	0°	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
50.8	2.5°	49.9	49.9	48.0	46.1	45.2	43.3	42.3	41.4	40.5	39.5
54.6	5°	52.7	51.8	48.9	46.1	43.3	40.5	38.6	36.7	34.8	33.9
60.2	7.5°	57.4	55.5	49.9	45.2	41.4	37.6	35.8	32.9	31.1	28.2
66.8	10°	63.0	59.3	51.8	46.1	40.5	35.8	32.9	30.1	27.3	23.5
76.2	12.5°	70.6	64.0	54.6	45.2	38.6	32.9	30.1	26.3	23.5	20.7
88.4	15°	77.2	68.7	55.5	45.2	36.7	30.1	26.3	22.6	19.8	16.0
111.0	17.5°	86.6	72.5	54.6	42.3	33.9	26.3	22.6	19.8	15.1	9.4
164.7	20°	102.6	75.3	52.7	39.5	29.2	21.6	16.9	13.2	6.6	1.9
247.5	22.5°	128.0	82.8	50.8	35.8	25.4	16.9	11.3	4.7	0.0	0.0
376.4	25°	176.9	96.0	50.8	33.9	22.6	12.2	3.8	0.0	0.0	0.0
534.5	27.5°	235.2	113.9	50.8	29.2	17.9	6.6	0.0	0.0	0.0	0.0
728.3	30°	294.5	133.6	50.8	25.4	14.1	0.9	0.0	0.0	0.0	0.0
896.7	32.5°	351.0	150.6	51.8	21.6	9.4	0.0	0.0	0.0	0.0	0.0
1130.1	35°	408.4	153.4	50.8	18.8	5.6	0.0	0.0	0.0	0.0	0.0
1416.1	37.5°	481.8	147.7	48.0	16.9	2.8	0.0	0.0	0.0	0.0	0.0
1863.1	40°	592.8	150.6	45.2	16.0	0.9	0.0	0.0	0.0	0.0	0.0
2660.0	42.5°	797.9	162.8	41.4	16.0	0.0	0.0	0.0	0.0	0.0	0.0
4237.1	45°	1379.4	218.3	37.6	16.9	0.0	0.0	0.0	0.0	0.0	0.0
6360.8	47.5°	2281.8	392.4	36.7	16.9	0.0	0.0	0.0	0.0	0.0	0.0
7662.1	50°	2912.2	494.0	38.6	17.9	0.0	0.0	0.0	0.0	0.0	0.0
7824.9	52.5°	2907.5	550.5	40.5	18.8	3.8	0.0	0.0	0.0	0.0	0.0
7212.3	55°	2584.8	560.8	43.3	20.7	12.2	0.0	0.0	0.0	0.0	0.0
6198.0	57.5°	2160.4	511.9	49.9	25.4	22.6	0.0	0.0	0.0	0.0	0.0
6039.0	58°	2085.1	489.3	51.8	26.3	24.5	0.0	0.0	0.0	0.0	0.0
5238.2	60°	1708.8	399.0	65.9	32.9	32.9	0.0	0.0	0.0	0.0	0.0
4294.5	62.5°	1179.9	348.1	75.3	42.3	33.9	0.0	0.0	0.0	0.0	0.0
3166.3	65°	834.6	314.3	81.9	45.2	27.3	0.0	0.0	0.0	0.0	0.0
2249.8	67.5°	623.8	289.8	90.3	46.1	14.1	0.0	0.0	0.0	0.0	0.0
1411.4	70°	478.0	271.9	111.0	48.9	3.8	0.0	0.0	0.0	0.0	0.0
841.2	72.5°	389.6	251.2	134.6	50.8	0.0	0.0	0.0	0.0	0.0	0.0
504.3	75°	322.7	226.8	129.9	55.5	0.0	0.0	0.0	0.0	0.0	0.0
269.1	77.5°	214.5	176.0	118.6	55.5	0.0	0.0	0.0	0.0	0.0	0.0
96.0	80°	75.3	69.6	92.2	48.9	0.0	0.0	0.0	0.0	0.0	0.0
19.8	82.5°	11.3	9.4	13.2	16.9	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°
54.6	0°	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
38.6	2.5°	38.6	38.6	37.6	38.6	38.6	40.5	45.2	51.8	59.3	62.1
32.9	5°	32.0	31.1	30.1	30.1	30.1	32.9	36.7	44.2	52.7	56.5
27.3	7.5°	26.3	25.4	24.5	23.5	23.5	25.4	30.1	38.6	47.0	50.8
22.6	10°	21.6	19.8	18.8	17.9	17.9	19.8	24.5	32.9	42.3	46.1
18.8	12.5°	17.9	15.1	13.2	12.2	11.3	14.1	18.8	26.3	36.7	41.4
14.1	15°	12.2	9.4	6.6	5.6	4.7	7.5	12.2	20.7	31.1	36.7
7.5	17.5°	6.6	2.8	0.9	0.0	0.0	1.9	5.6	15.1	25.4	30.1
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	18.8	23.5
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	11.3	16.0
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	8.5
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
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	2.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	7.5
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°
54.6	0°	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
64.9	2.5°	66.8	65.9	64.0	62.1	62.1	62.1	64.9	67.7	70.6	70.6
58.3	5°	62.1	62.1	61.2	59.3	59.3	60.2	64.0	68.7	72.5	73.4
53.6	7.5°	57.4	59.3	57.4	56.5	57.4	58.3	62.1	67.7	73.4	75.3
49.9	10°	54.6	55.5	55.5	54.6	54.6	56.5	60.2	67.7	75.3	78.1
45.2	12.5°	50.8	52.7	51.8	51.8	51.8	53.6	58.3	66.8	77.2	80.9
40.5	15°	47.0	49.9	49.9	48.9	48.9	49.9	56.5	65.9	80.0	86.6
34.8	17.5°	43.3	46.1	47.0	45.2	45.2	47.0	53.6	65.9	81.9	93.2
28.2	20°	35.8	40.5	43.3	40.5	40.5	42.3	48.9	62.1	82.8	99.7
20.7	22.5°	28.2	32.9	36.7	35.8	35.8	36.7	45.2	59.3	83.7	111.0
12.2	25°	20.7	25.4	28.2	30.1	30.1	32.9	41.4	57.4	87.5	134.6
5.6	27.5°	12.2	17.9	21.6	23.5	24.5	28.2	38.6	55.5	94.1	168.4
0.0	30°	5.6	10.4	15.1	18.8	18.8	25.4	35.8	53.6	102.6	217.4
0.0	32.5°	0.0	4.7	7.5	13.2	14.1	20.7	32.9	51.8	114.8	264.4
0.0	35°	0.0	0.0	3.8	10.4	10.4	16.9	30.1	49.9	133.6	300.2
0.0	37.5°	0.0	0.0	0.0	7.5	8.5	15.1	29.2	48.9	137.4	303.0
0.0	40°	0.0	0.0	0.0	5.6	6.6	14.1	29.2	49.9	124.2	296.4
0.0	42.5°	0.0	0.0	0.0	3.8	4.7	14.1	29.2	51.8	112.0	303.9
0.0	45°	0.0	0.0	0.0	2.8	3.8	15.1	28.2	50.8	105.4	343.4
0.0	47.5°	0.0	0.0	0.0	3.8	5.6	15.1	27.3	49.9	106.3	474.2
0.0	50°	0.0	0.0	0.0	4.7	6.6	15.1	28.2	48.0	116.7	729.2
0.0	52.5°	0.0	0.0	0.0	3.8	5.6	16.9	31.1	47.0	127.0	948.5
0.0	55°	0.0	0.0	0.0	0.9	2.8	21.6	33.9	47.0	143.0	1003.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	24.5	38.6	49.9	169.4	981.4
0.0	58°	0.0	0.0	0.0	0.0	0.0	24.5	39.5	49.9	171.3	962.6
0.0	60°	0.0	0.0	0.0	0.0	0.0	24.5	43.3	55.5	184.4	857.2
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	20.7	51.8	69.6	192.0	673.7
0.0	65°	0.0	0.0	0.0	0.0	0.0	16.9	61.2	76.2	197.6	536.3
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	16.0	63.0	77.2	200.4	427.2
0.0	70°	0.0	0.0	0.0	0.0	0.0	16.9	62.1	82.8	209.8	347.2
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	18.8	56.5	91.3	209.8	307.7
0.0	75°	0.0	0.0	0.0	0.0	0.0	19.8	52.7	102.6	191.0	266.3
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	18.8	51.8	119.5	170.3	219.2
0.0	80°	1.9	2.8	2.8	1.9	1.9	16.0	50.8	121.4	144.9	150.6
0.9	82.5°	5.6	7.5	6.6	4.7	4.7	14.1	45.2	101.6	75.3	64.9
5.6	85°	10.4	12.2	12.2	10.4	10.4	13.2	28.2	36.7	25.4	20.7
10.4	87.5°	14.1	16.0	16.0	14.1	14.1	13.2	12.2	11.3	10.4	10.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI



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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

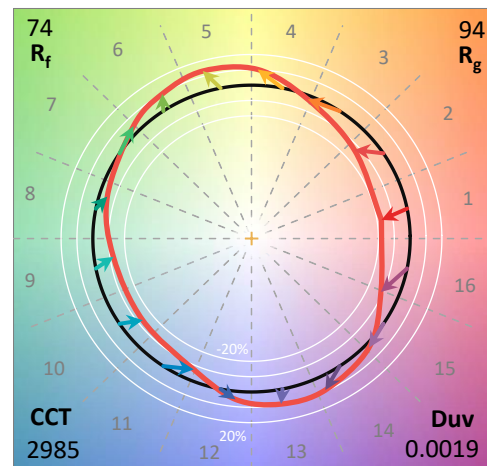
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-4
 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-730-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K):	2985	CRI (Ra):	70.8		
CIE u':	0.2504	R1:	66.3	R9:	-43.2
CIE v':	0.5243	R2:	80.6	R10:	57.6
Duv:	0.0019	R3:	94.5	R11:	64.8
CIE x:	0.4408	R4:	68.2	R12:	53.5
CIE y:	0.4101	R5:	66.5	R13:	68.7
CIE z:	0.1491	R6:	74.7	R14:	97.0
Peak Wavelength (nm):	595	R7:	76.2	R15:	56.4
Dominant Wavelength (nm):	582	R8:	39.6		
Purity:	55.41818				
Rf:	73.8				
Rg:	94.4				



Test Conditions

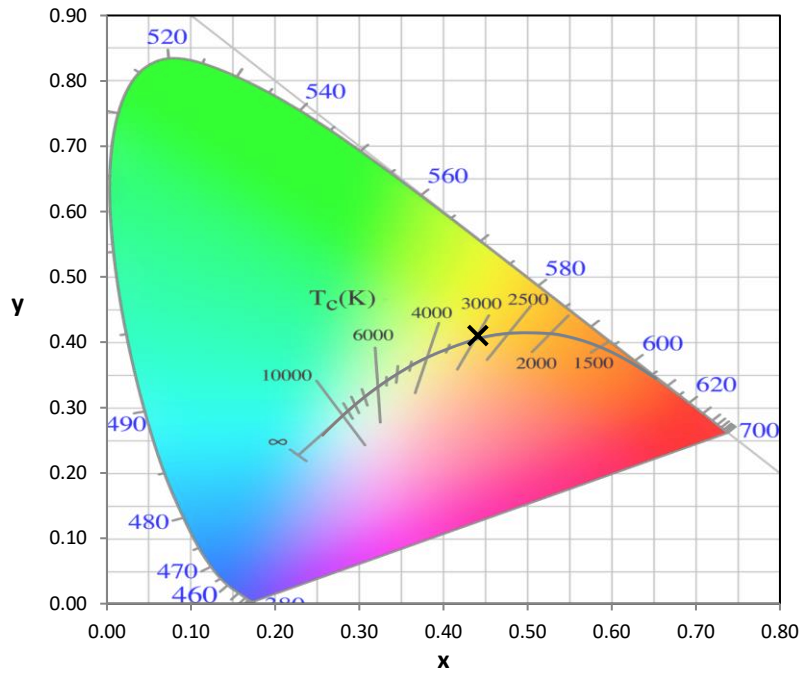
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

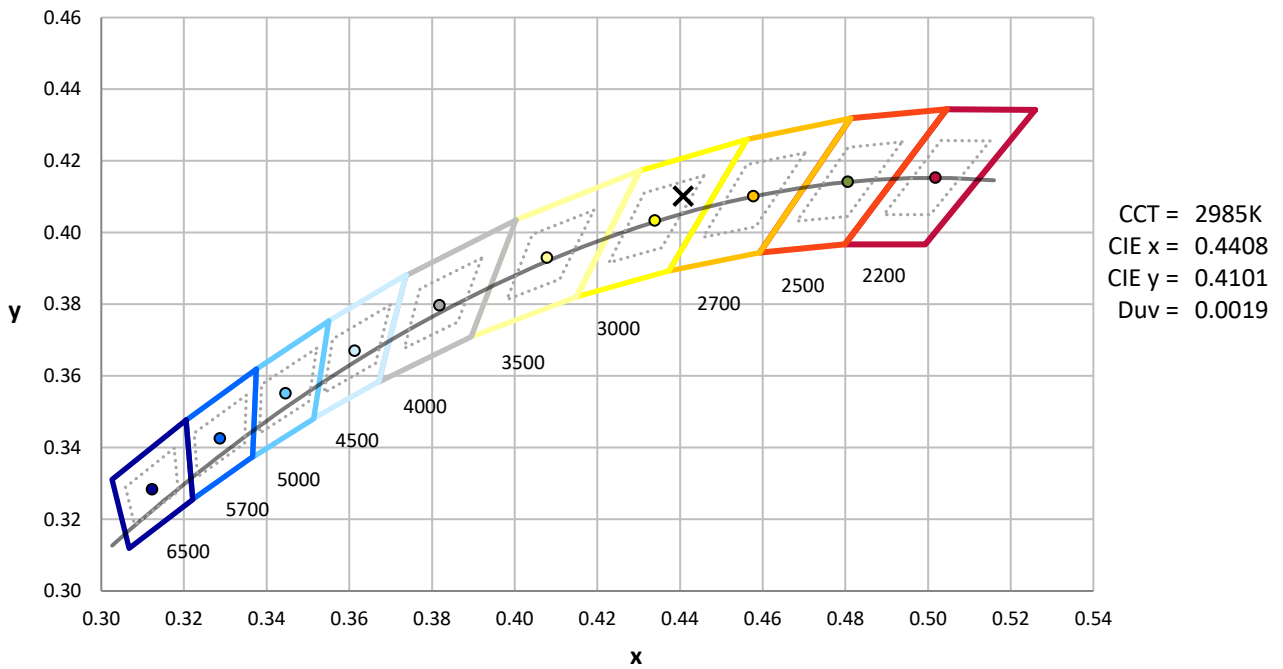
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



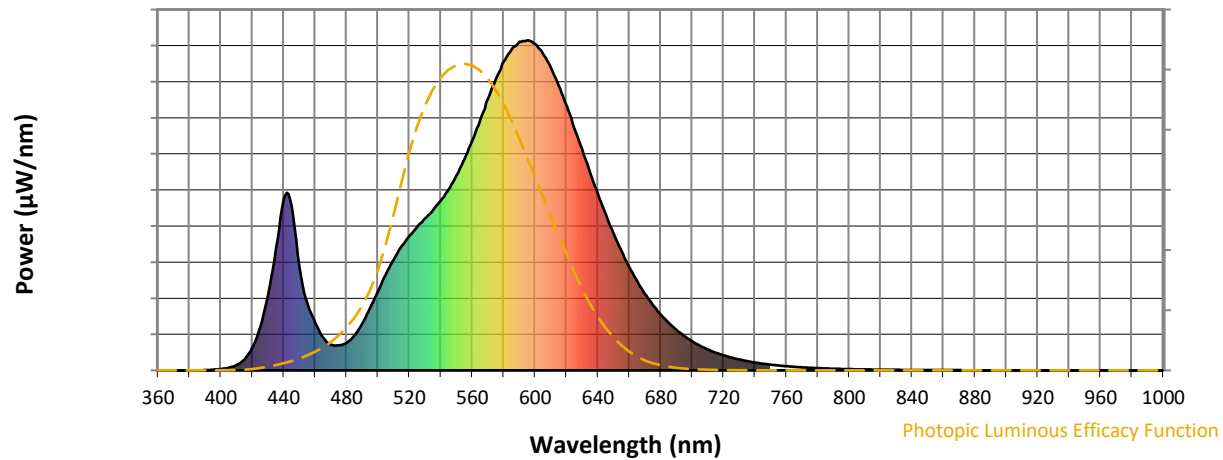
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

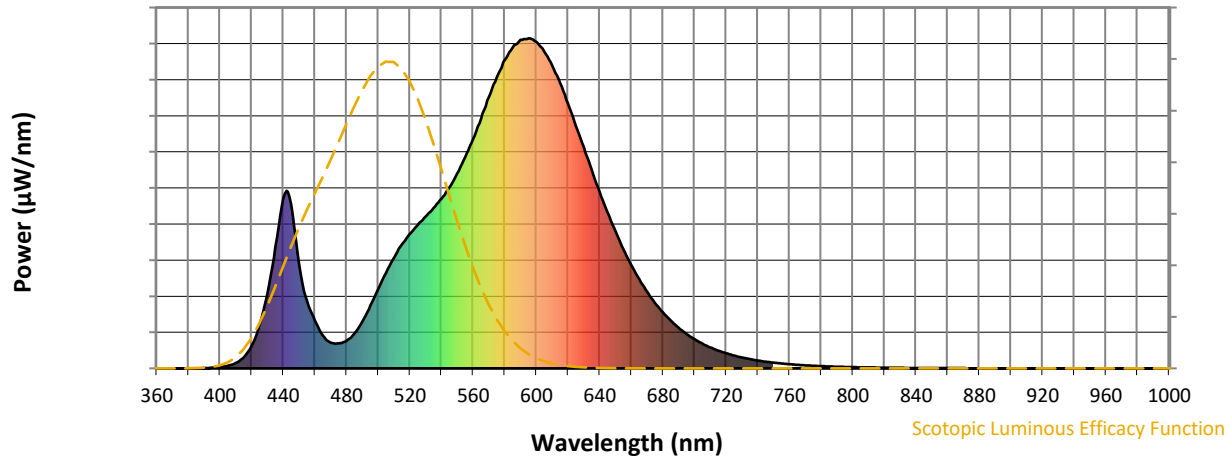


Photopic Lumens: NR

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Scotopic Flux vs. Wavelength



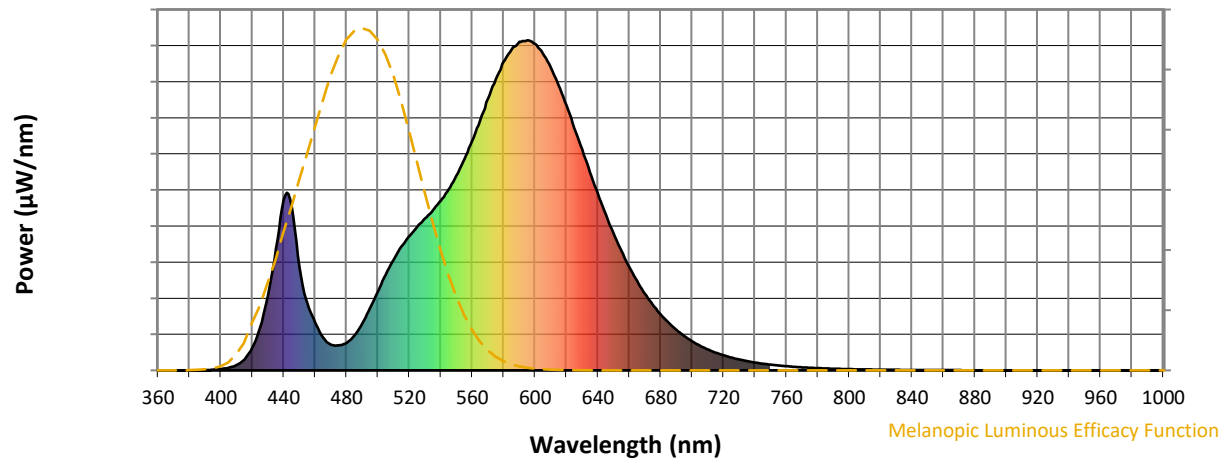
Scotopic Lumens: NR

S/P: 1.19

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.13

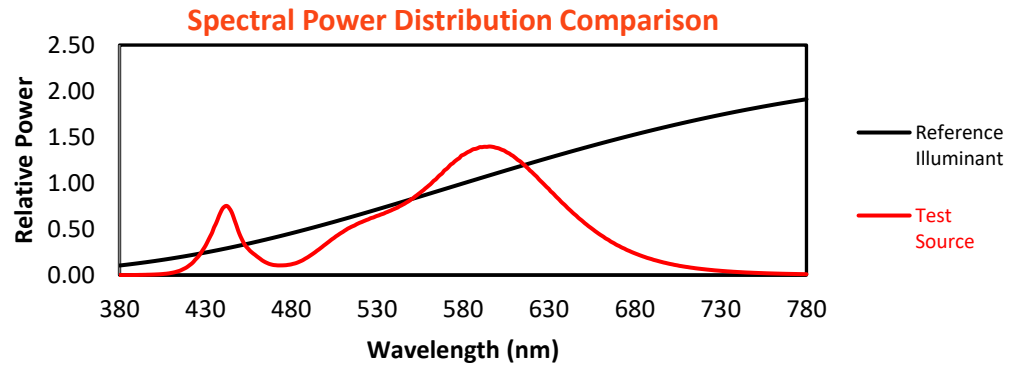
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

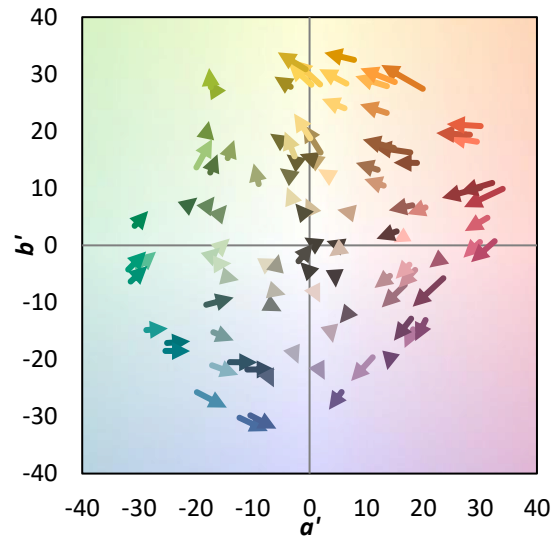
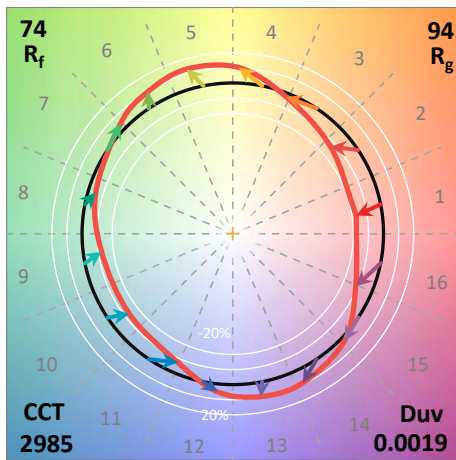
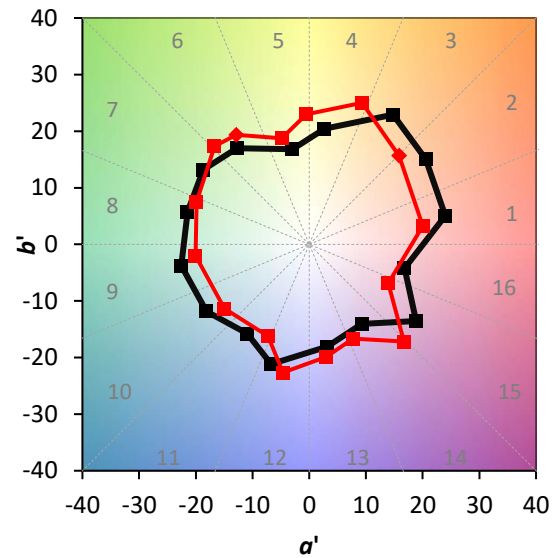
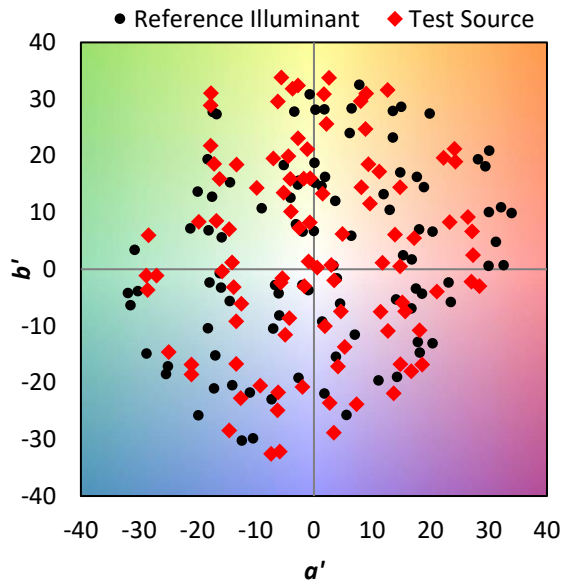
TM-30-18

Summary

$R_f = 73.8$
 $R_g = 94.4$
 $CIE R_a = 70.8$
 $R_g = -43.2$

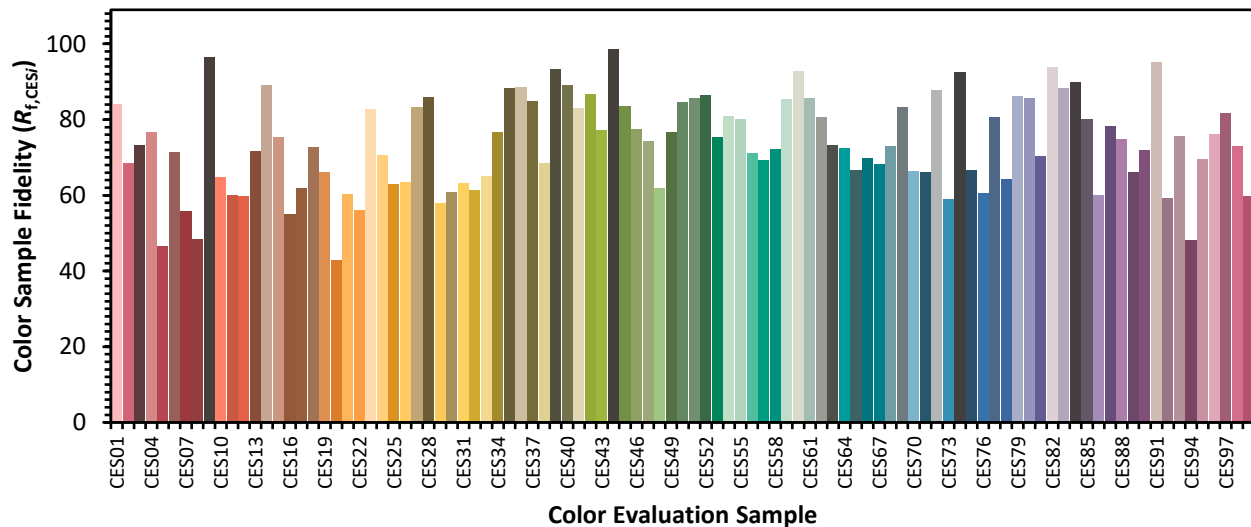


Color Vector Graphics

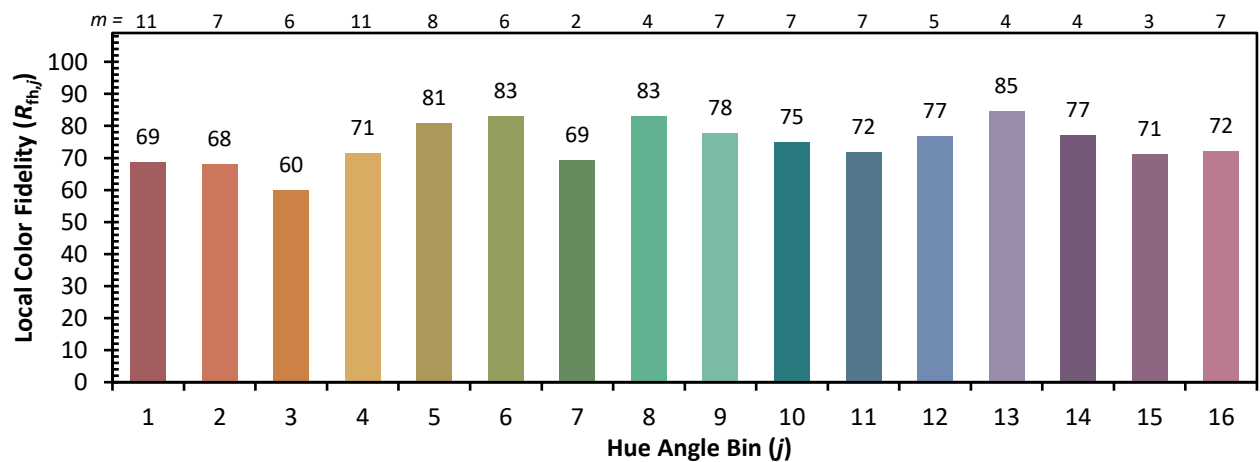
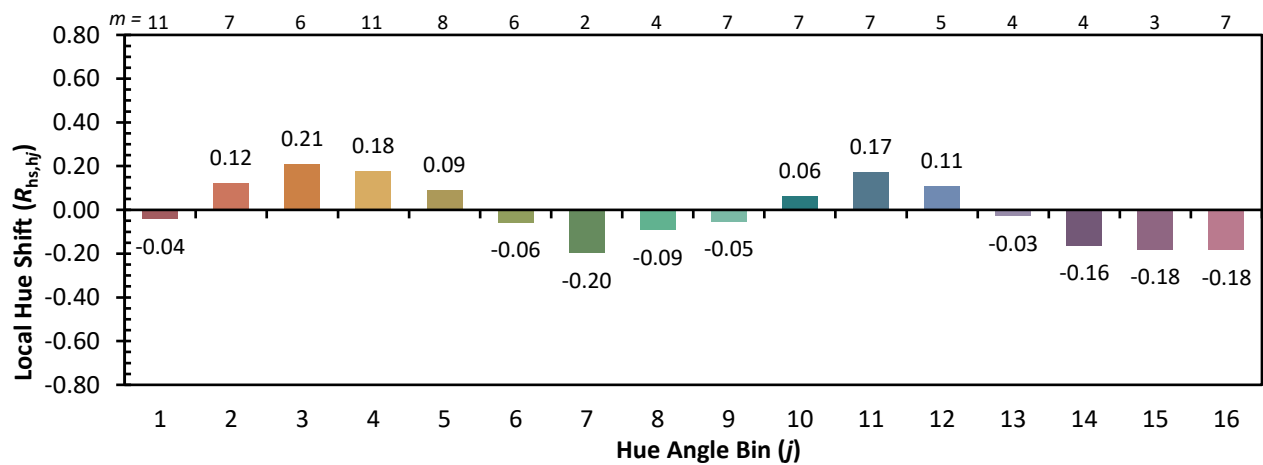
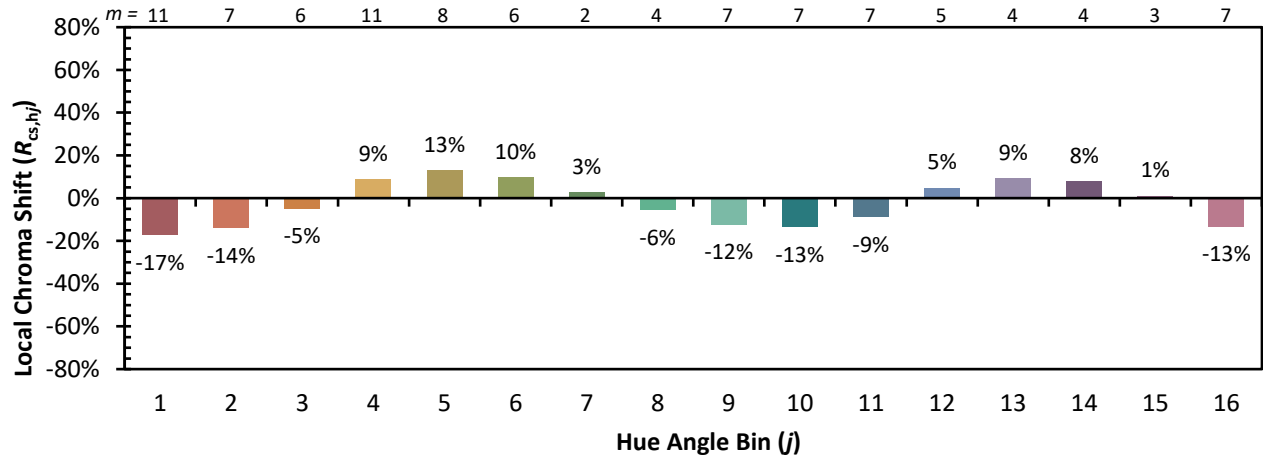


Individual Sample Fidelity Index ($R_{f,i}$)

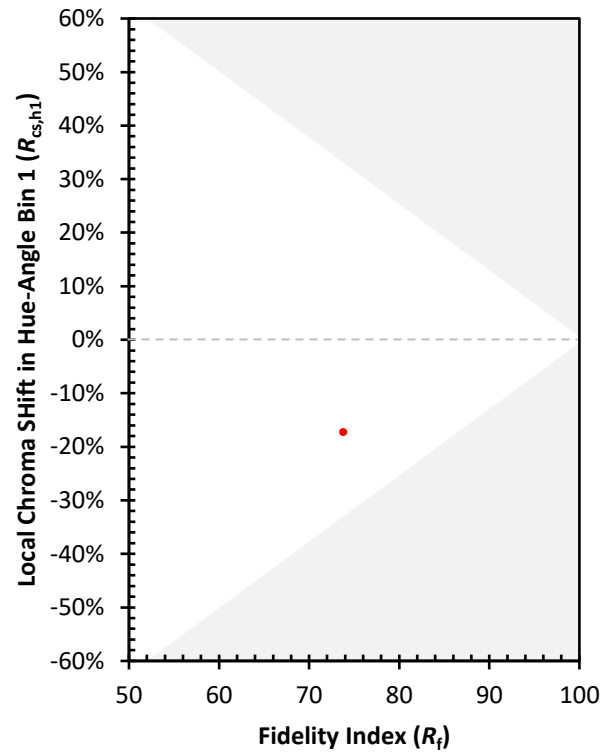
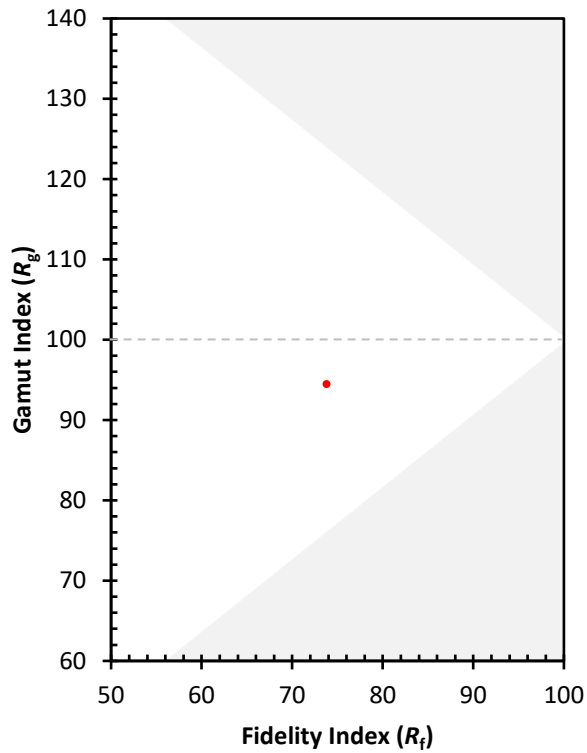
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 94
CES08 = 40	CES33 = 65	CES58 = 72	CES83 = 88
CES09 = 29	CES34 = 77	CES59 = 85	CES84 = 90
CES10 = 76	CES35 = 88	CES60 = 93	CES85 = 80
CES11 = 59	CES36 = 89	CES61 = 86	CES86 = 60
CES12 = 65	CES37 = 85	CES62 = 81	CES87 = 78
CES13 = 43	CES38 = 69	CES63 = 73	CES88 = 75
CES14 = 74	CES39 = 93	CES64 = 72	CES89 = 66
CES15 = 71	CES40 = 89	CES65 = 67	CES90 = 72
CES16 = 47	CES41 = 83	CES66 = 70	CES91 = 95
CES17 = 50	CES42 = 87	CES67 = 68	CES92 = 59
CES18 = 56	CES43 = 77	CES68 = 73	CES93 = 76
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 66	CES45 = 83	CES70 = 66	CES95 = 70
CES21 = 87	CES46 = 77	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 74	CES72 = 88	CES97 = 82
CES23 = 92	CES48 = 62	CES73 = 59	CES98 = 73
CES24 = 91	CES49 = 77	CES74 = 93	CES99 = 60
CES25 = 73	CES50 = 85	CES75 = 67	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)