

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: P1049474

Luminaire Tested: **GALN-SA4B-740-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049474
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-740-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 4xLight Square PACKAGE
70CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16434 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 144.1
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

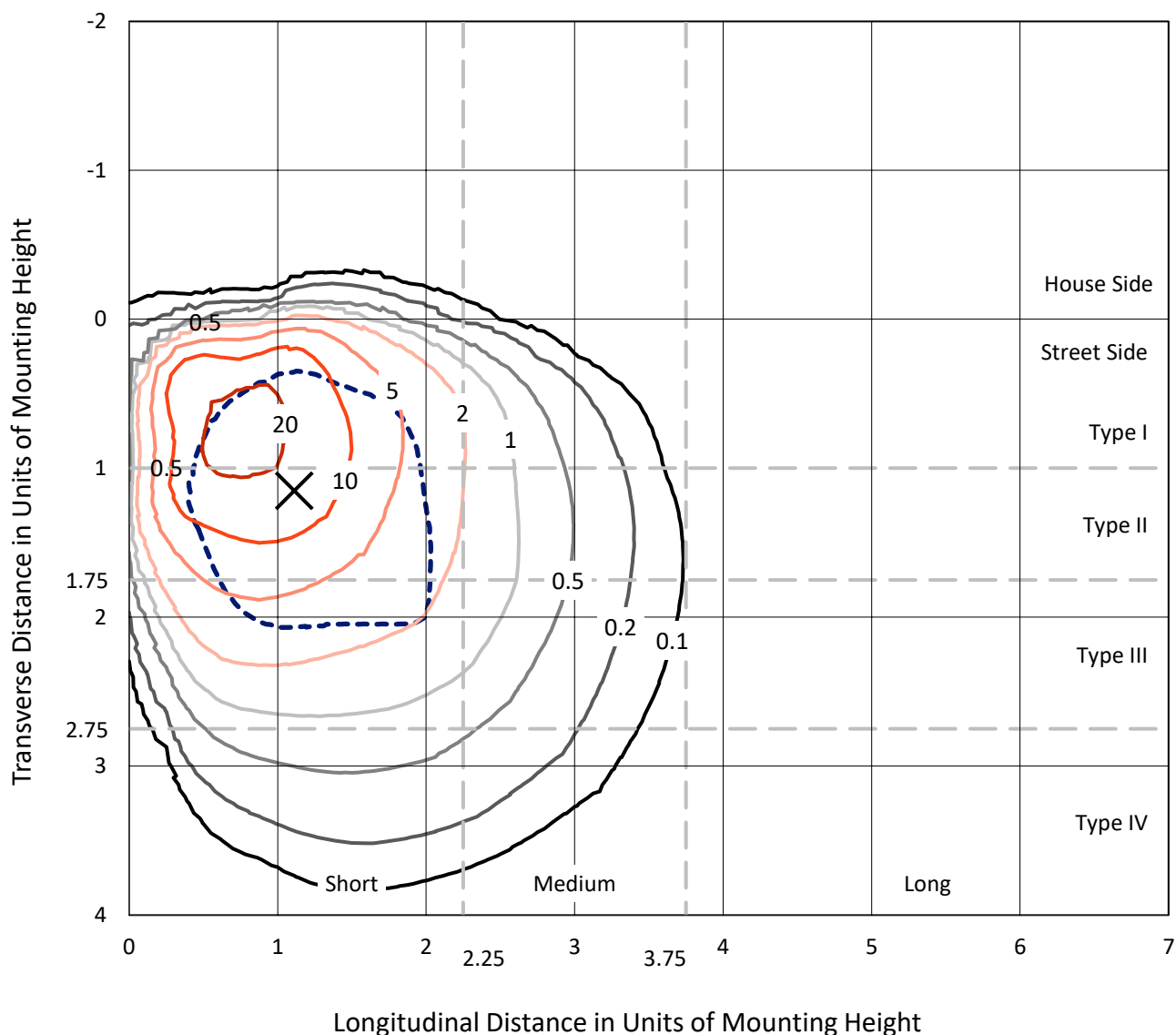
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

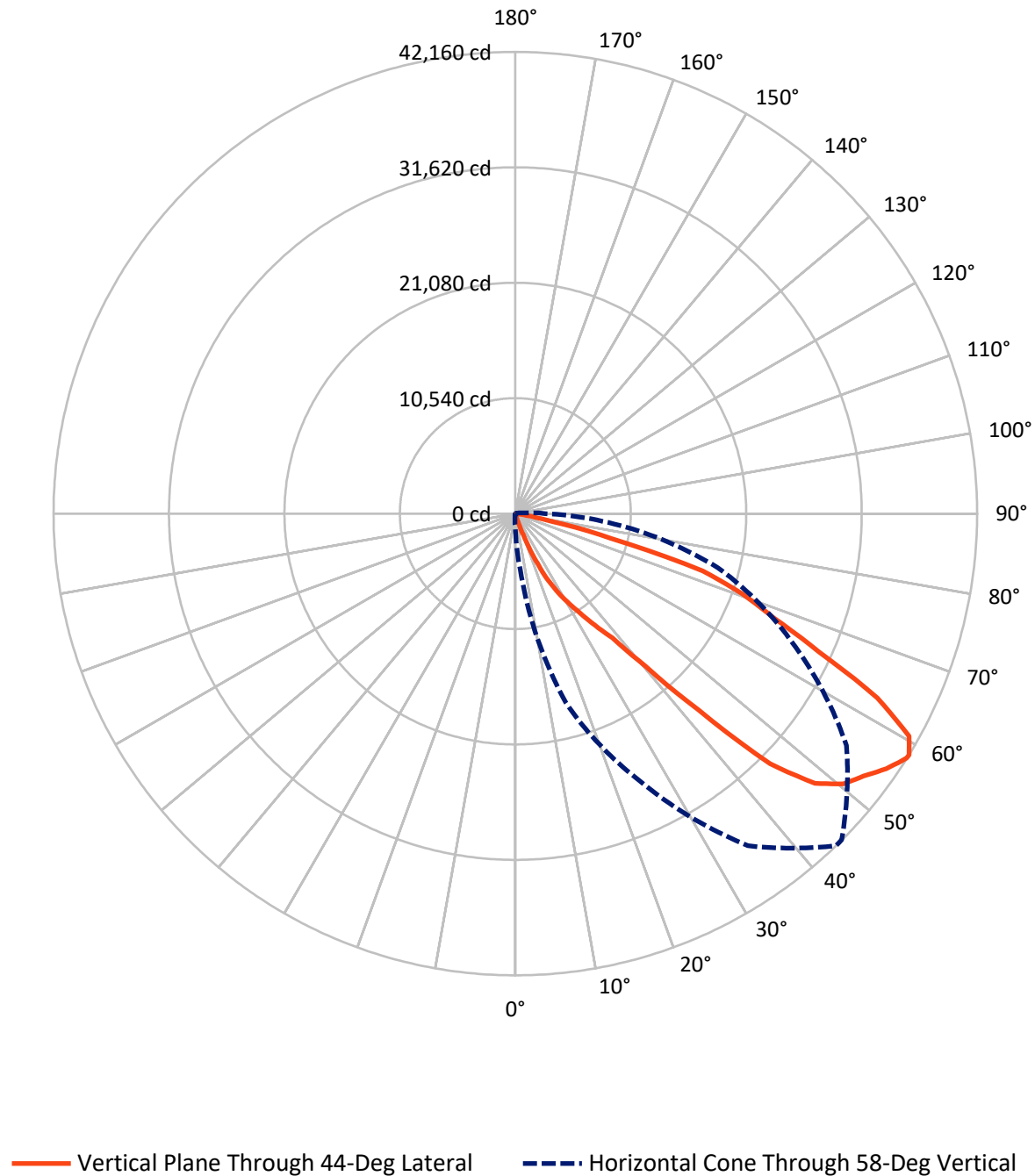


Based on 20 foot mounting height. Maximum calculated value = 28.6 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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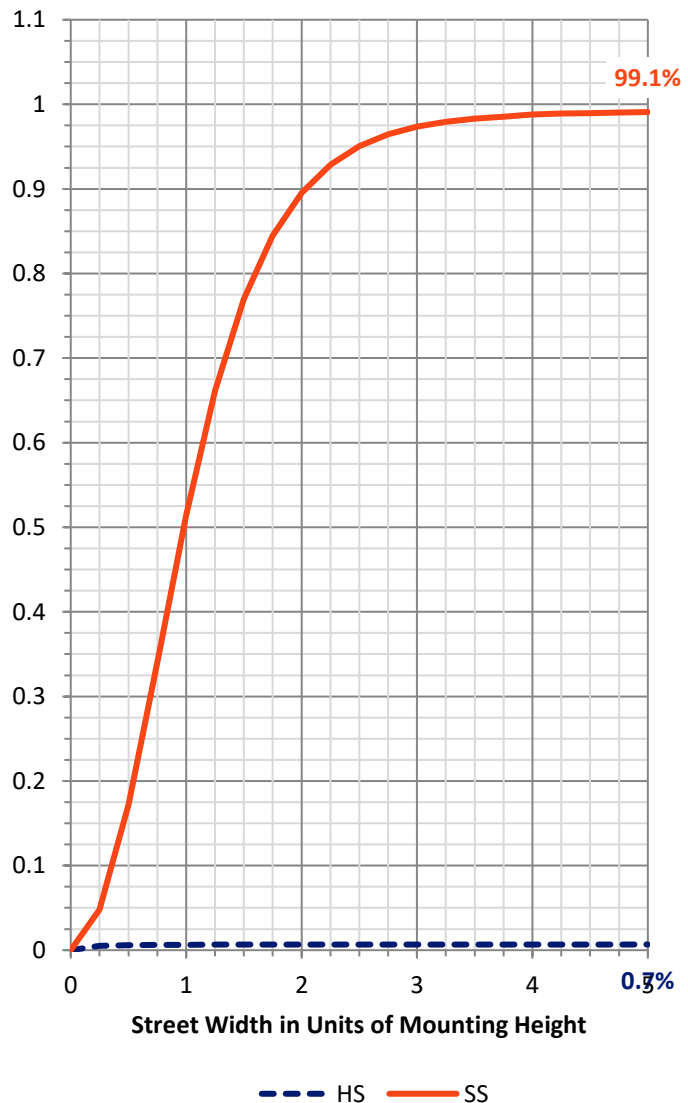
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	112.2	0.0	112.2
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	16321.8	0.0	16321.8
	% Fixture	99.3	0.0	99.3
Total	Lumens	16434.0	0.0	16434.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.4	0.0
10°-20°	36.0	0.2
20°-30°	389.3	2.4
30°-40°	1151.4	7.0
40°-50°	3431.7	20.9
50°-60°	5445.2	33.1
60°-70°	4542.0	27.6
70°-80°	1400.8	8.5
80°-90°	31.1	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°	16434.0	100.0
0°-180°	16434.0	100.0



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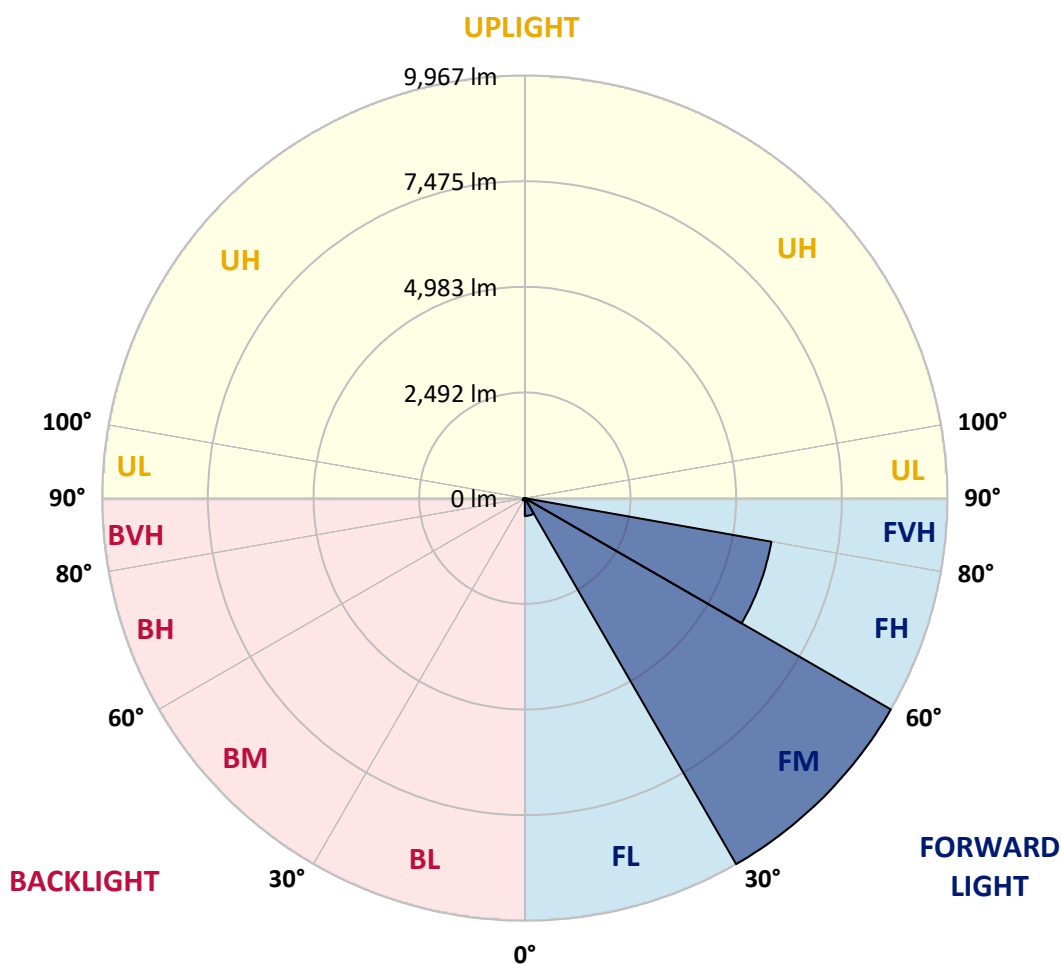
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	420.8	2.6			
FM	(30°-60°)	9966.9	60.6			
FH	(60°-80°)	5904.5	35.9			G3/7500
FVH	(80°-90°)	29.6	0.2			G1/100
BL	(0°-30°)	11.0	0.1	B0/110		
BM	(30°-60°)	61.4	0.4	B0/220		
BH	(60°-80°)	38.3	0.2	B0/110		G0/110
BVH	(80°-90°)	1.5	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
2.5°	93.1	93.1	89.4	84.4	79.5	74.5	73.2	70.8	69.5	68.3
5°	96.8	96.8	95.6	91.9	86.9	83.2	83.2	79.5	77.0	74.5
7.5°	99.3	100.6	103.0	101.8	99.3	95.6	95.6	93.1	89.4	83.2
10°	103.0	106.8	111.7	114.2	115.5	115.5	114.2	113.0	106.8	98.1
12.5°	106.8	114.2	126.6	139.0	146.5	156.4	155.2	152.7	136.6	117.9
15°	114.2	125.4	151.5	187.5	243.3	278.1	291.7	279.3	225.9	158.9
17.5°	122.9	141.5	219.7	392.3	643.1	762.2	834.3	775.9	514.0	301.7
20°	131.6	172.6	408.4	1016.7	1668.5	2058.3	2166.3	1997.5	1282.4	574.8
22.5°	146.5	242.1	828.0	2101.8	3595.2	4180.0	4290.4	3750.4	2422.1	1134.7
25°	177.5	351.3	1427.7	3425.2	5365.5	6352.5	6306.6	5598.9	3929.2	1812.5
27.5°	222.2	511.5	2158.9	4866.5	7061.4	7931.6	8035.9	7160.7	5237.7	2665.4
30°	286.8	708.9	2943.5	6021.0	8420.7	9361.8	9379.1	8474.1	6408.4	3414.0
32.5°	348.8	895.1	3630.0	7137.1	9760.3	10791.9	10868.9	9755.3	7282.3	4193.6
35°	396.0	1016.7	4325.2	8117.8	11111.0	12532.4	12527.5	11205.3	8317.7	4890.1
37.5°	399.7	1138.4	4954.6	9120.9	12821.7	14413.2	14570.9	13113.4	9569.1	5751.6
40°	391.1	1275.0	5751.6	10685.2	15904.2	18346.1	18485.2	16647.8	12079.3	7226.5
42.5°	401.0	1512.1	7045.2	13574.0	21022.7	24529.8	24797.9	22866.2	16693.8	10235.7
45°	453.1	1957.8	9755.3	18407.0	28318.7	32594.2	32504.9	29722.8	22063.0	14816.7
47.5°	625.7	3049.0	13772.6	23110.8	32981.6	36789.1	36866.1	33465.7	25196.4	18338.7
50°	962.1	4665.4	17148.1	25597.4	34986.5	38806.4	38734.4	34805.3	26387.0	20073.0
52.5°	1251.4	5834.8	18841.5	26470.2	35243.5	39803.3	39798.4	35157.8	26572.0	20222.0
55°	1323.4	5923.0	18855.1	26517.3	35819.5	41108.1	41272.0	36025.6	26811.6	19571.4
57.5°	1294.8	5243.9	18068.0	26790.5	36845.0	42117.4	42126.1	36866.1	27419.9	19172.9
58°	1270.0	5137.1	17909.1	26945.6	37021.2	42159.6	42138.5	36904.6	27915.2	19158.0
60°	1131.0	4460.5	17289.7	27341.7	36759.3	41293.1	41095.7	36064.1	27842.0	19005.3
62.5°	888.9	3479.8	16680.1	26883.6	33951.1	37098.2	37180.2	31928.8	25381.4	18115.2
65°	707.6	2593.4	15408.9	23581.3	27957.4	30465.2	30770.6	25963.7	21185.3	15339.3
67.5°	563.6	1874.6	12926.0	18774.4	22122.6	25426.1	25648.3	21798.6	16413.2	11752.8
70°	458.1	1267.5	8922.3	13730.4	18246.8	21961.2	21974.9	18109.0	12250.6	7700.7
72.5°	406.0	877.7	5179.3	10013.5	14795.6	17895.5	17534.2	14695.0	9415.1	4561.1
75°	351.3	582.2	2540.0	6121.6	8970.7	9031.5	9169.3	6816.8	4706.3	2168.8
77.5°	289.3	413.4	1000.6	1672.2	2690.2	3443.8	3571.6	2706.4	1565.5	533.8
80°	198.6	196.1	269.4	512.7	769.7	964.6	900.1	696.5	409.7	204.8
82.5°	85.7	93.1	121.7	146.5	119.2	115.5	110.5	70.8	54.6	42.2
85°	27.3	24.8	26.1	26.1	21.1	16.1	16.1	7.4	0.0	0.0
87.5°	13.7	11.2	11.2	9.9	6.2	2.5	1.2	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°
72.0	0°	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
67.0	2.5°	65.8	65.8	63.3	60.8	59.6	57.1	55.9	54.6	53.4	52.1
72.0	5°	69.5	68.3	64.6	60.8	57.1	53.4	50.9	48.4	45.9	44.7
79.5	7.5°	75.7	73.2	65.8	59.6	54.6	49.7	47.2	43.5	41.0	37.2
88.1	10°	83.2	78.2	68.3	60.8	53.4	47.2	43.5	39.7	36.0	31.0
100.6	12.5°	93.1	84.4	72.0	59.6	50.9	43.5	39.7	34.8	31.0	27.3
116.7	15°	101.8	90.6	73.2	59.6	48.4	39.7	34.8	29.8	26.1	21.1
146.5	17.5°	114.2	95.6	72.0	55.9	44.7	34.8	29.8	26.1	19.9	12.4
217.3	20°	135.3	99.3	69.5	52.1	38.5	28.6	22.3	17.4	8.7	2.5
326.5	22.5°	168.8	109.2	67.0	47.2	33.5	22.3	14.9	6.2	0.0	0.0
496.6	25°	233.4	126.6	67.0	44.7	29.8	16.1	5.0	0.0	0.0	0.0
705.1	27.5°	310.4	150.2	67.0	38.5	23.6	8.7	0.0	0.0	0.0	0.0
960.9	30°	388.6	176.3	67.0	33.5	18.6	1.2	0.0	0.0	0.0	0.0
1183.1	32.5°	463.1	198.6	68.3	28.6	12.4	0.0	0.0	0.0	0.0	0.0
1491.0	35°	538.8	202.4	67.0	24.8	7.4	0.0	0.0	0.0	0.0	0.0
1868.4	37.5°	635.6	194.9	63.3	22.3	3.7	0.0	0.0	0.0	0.0	0.0
2458.1	40°	782.1	198.6	59.6	21.1	1.2	0.0	0.0	0.0	0.0	0.0
3509.6	42.5°	1052.7	214.8	54.6	21.1	0.0	0.0	0.0	0.0	0.0	0.0
5590.2	45°	1820.0	288.0	49.7	22.3	0.0	0.0	0.0	0.0	0.0	0.0
8392.2	47.5°	3010.5	517.7	48.4	22.3	0.0	0.0	0.0	0.0	0.0	0.0
10109.1	50°	3842.3	651.8	50.9	23.6	0.0	0.0	0.0	0.0	0.0	0.0
10323.9	52.5°	3836.1	726.2	53.4	24.8	5.0	0.0	0.0	0.0	0.0	0.0
9515.7	55°	3410.3	739.9	57.1	27.3	16.1	0.0	0.0	0.0	0.0	0.0
8177.4	57.5°	2850.4	675.3	65.8	33.5	29.8	0.0	0.0	0.0	0.0	0.0
7967.6	58°	2751.1	645.6	68.3	34.8	32.3	0.0	0.0	0.0	0.0	0.0
6911.1	60°	2254.5	526.4	86.9	43.5	43.5	0.0	0.0	0.0	0.0	0.0
5666.0	62.5°	1556.8	459.3	99.3	55.9	44.7	0.0	0.0	0.0	0.0	0.0
4177.5	65°	1101.2	414.6	108.0	59.6	36.0	0.0	0.0	0.0	0.0	0.0
2968.3	67.5°	823.1	382.4	119.2	60.8	18.6	0.0	0.0	0.0	0.0	0.0
1862.2	70°	630.7	358.8	146.5	64.6	5.0	0.0	0.0	0.0	0.0	0.0
1109.9	72.5°	514.0	331.5	177.5	67.0	0.0	0.0	0.0	0.0	0.0	0.0
665.4	75°	425.8	299.2	171.3	73.2	0.0	0.0	0.0	0.0	0.0	0.0
355.1	77.5°	283.1	232.2	156.4	73.2	0.0	0.0	0.0	0.0	0.0	0.0
126.6	80°	99.3	91.9	121.7	64.6	0.0	0.0	0.0	0.0	0.0	0.0
26.1	82.5°	14.9	12.4	17.4	22.3	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°
72.0	0°	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
50.9	2.5°	50.9	50.9	49.7	50.9	50.9	53.4	59.6	68.3	78.2	81.9
43.5	5°	42.2	41.0	39.7	39.7	39.7	43.5	48.4	58.3	69.5	74.5
36.0	7.5°	34.8	33.5	32.3	31.0	31.0	33.5	39.7	50.9	62.1	67.0
29.8	10°	28.6	26.1	24.8	23.6	23.6	26.1	32.3	43.5	55.9	60.8
24.8	12.5°	23.6	19.9	17.4	16.1	14.9	18.6	24.8	34.8	48.4	54.6
18.6	15°	16.1	12.4	8.7	7.4	6.2	9.9	16.1	27.3	41.0	48.4
9.9	17.5°	8.7	3.7	1.2	0.0	0.0	2.5	7.4	19.9	33.5	39.7
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	24.8	31.0
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	14.9	21.1
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	11.2
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
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	3.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	9.9
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°
72.0	0°	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
85.7	2.5°	88.1	86.9	84.4	81.9	81.9	81.9	85.7	89.4	93.1	93.1
77.0	5°	81.9	81.9	80.7	78.2	78.2	79.5	84.4	90.6	95.6	96.8
70.8	7.5°	75.7	78.2	75.7	74.5	75.7	77.0	81.9	89.4	96.8	99.3
65.8	10°	72.0	73.2	73.2	72.0	72.0	74.5	79.5	89.4	99.3	103.0
59.6	12.5°	67.0	69.5	68.3	68.3	68.3	70.8	77.0	88.1	101.8	106.8
53.4	15°	62.1	65.8	65.8	64.6	64.6	65.8	74.5	86.9	105.5	114.2
45.9	17.5°	57.1	60.8	62.1	59.6	59.6	62.1	70.8	86.9	108.0	122.9
37.2	20°	47.2	53.4	57.1	53.4	53.4	55.9	64.6	81.9	109.2	131.6
27.3	22.5°	37.2	43.5	48.4	47.2	47.2	48.4	59.6	78.2	110.5	146.5
16.1	25°	27.3	33.5	37.2	39.7	39.7	43.5	54.6	75.7	115.5	177.5
7.4	27.5°	16.1	23.6	28.6	31.0	32.3	37.2	50.9	73.2	124.1	222.2
0.0	30°	7.4	13.7	19.9	24.8	24.8	33.5	47.2	70.8	135.3	286.8
0.0	32.5°	0.0	6.2	9.9	17.4	18.6	27.3	43.5	68.3	151.5	348.8
0.0	35°	0.0	0.0	5.0	13.7	13.7	22.3	39.7	65.8	176.3	396.0
0.0	37.5°	0.0	0.0	0.0	9.9	11.2	19.9	38.5	64.6	181.3	399.7
0.0	40°	0.0	0.0	0.0	7.4	8.7	18.6	38.5	65.8	163.9	391.1
0.0	42.5°	0.0	0.0	0.0	5.0	6.2	18.6	38.5	68.3	147.7	401.0
0.0	45°	0.0	0.0	0.0	3.7	5.0	19.9	37.2	67.0	139.0	453.1
0.0	47.5°	0.0	0.0	0.0	5.0	7.4	19.9	36.0	65.8	140.3	625.7
0.0	50°	0.0	0.0	0.0	6.2	8.7	19.9	37.2	63.3	153.9	962.1
0.0	52.5°	0.0	0.0	0.0	5.0	7.4	22.3	41.0	62.1	167.6	1251.4
0.0	55°	0.0	0.0	0.0	1.2	3.7	28.6	44.7	62.1	188.7	1323.4
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	32.3	50.9	65.8	223.5	1294.8
0.0	58°	0.0	0.0	0.0	0.0	0.0	32.3	52.1	65.8	225.9	1270.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	32.3	57.1	73.2	243.3	1131.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	27.3	68.3	91.9	253.3	888.9
0.0	65°	0.0	0.0	0.0	0.0	0.0	22.3	80.7	100.6	260.7	707.6
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	21.1	83.2	101.8	264.4	563.6
0.0	70°	0.0	0.0	0.0	0.0	0.0	22.3	81.9	109.2	276.8	458.1
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	24.8	74.5	120.4	276.8	406.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	26.1	69.5	135.3	252.0	351.3
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	24.8	68.3	157.7	224.7	289.3
0.0	80°	2.5	3.7	3.7	2.5	2.5	21.1	67.0	160.1	191.2	198.6
1.2	82.5°	7.4	9.9	8.7	6.2	6.2	18.6	59.6	134.1	99.3	85.7
7.4	85°	13.7	16.1	16.1	13.7	13.7	17.4	37.2	48.4	33.5	27.3
13.7	87.5°	18.6	21.1	21.1	18.6	18.6	17.4	16.1	14.9	13.7	13.7
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: SP1-2407-184-1

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-740-U-5WQ

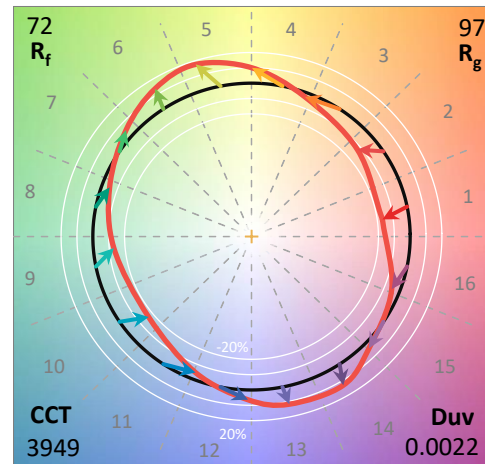
Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-1
 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-740-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3949	CRI (Ra):	70.7		
CIE u':	0.2248	R1:	68.0	R9:	-36.7
CIE v':	0.5053	R2:	76.0	R10:	45.1
Duv:	0.0022	R3:	84.3	R11:	70.7
CIE x:	0.3844	R4:	72.0	R12:	47.1
CIE y:	0.3840	R5:	68.6	R13:	68.5
CIE z:	0.2316	R6:	68.3	R14:	91.1
Peak Wavelength (nm):	440	R7:	77.9	R15:	58.7
Dominant Wavelength (nm):	578	R8:	50.3		
Purity:	30.60026				
Rf:	71.8				
Rg:	96.5				



Test Conditions

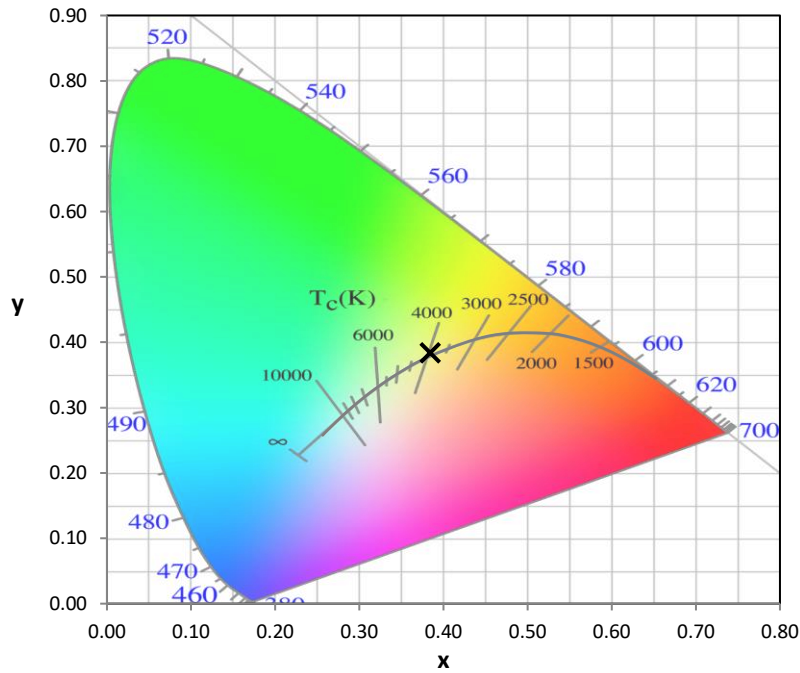
Stabilization Time: 34M
 Operation Time: 1H 34M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-1

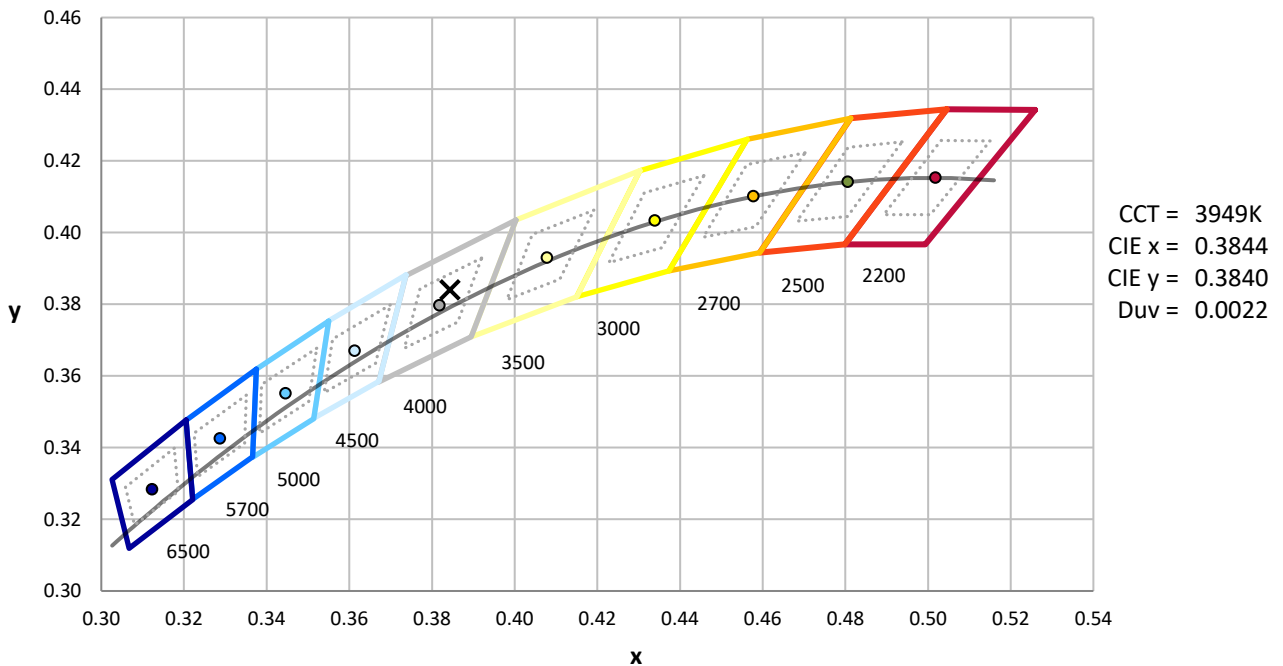
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



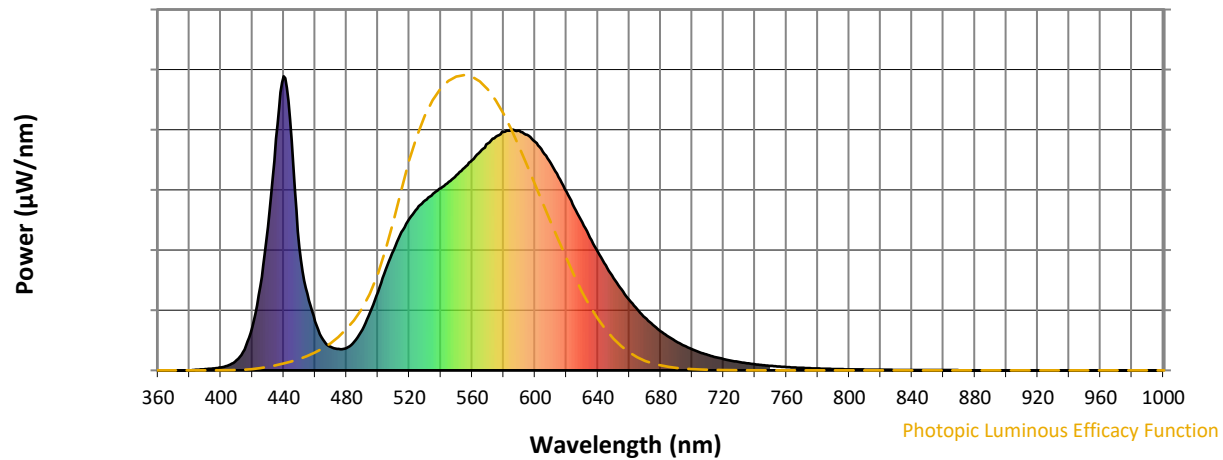
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

Photopic Flux vs. Wavelength

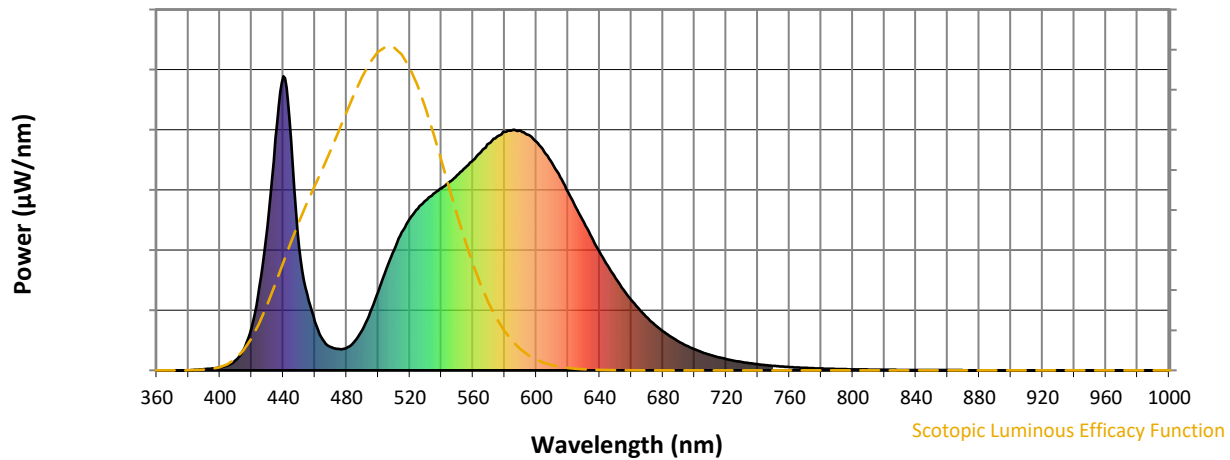


Photopic Lumens: NR

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Scotopic Flux vs. Wavelength



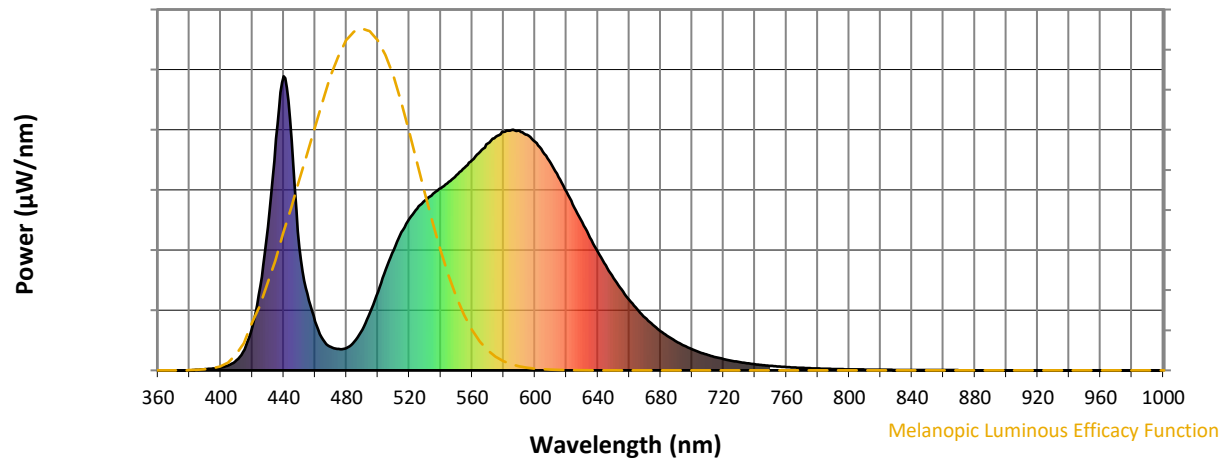
Scotopic Lumens: NR

S/P: 1.47

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.78

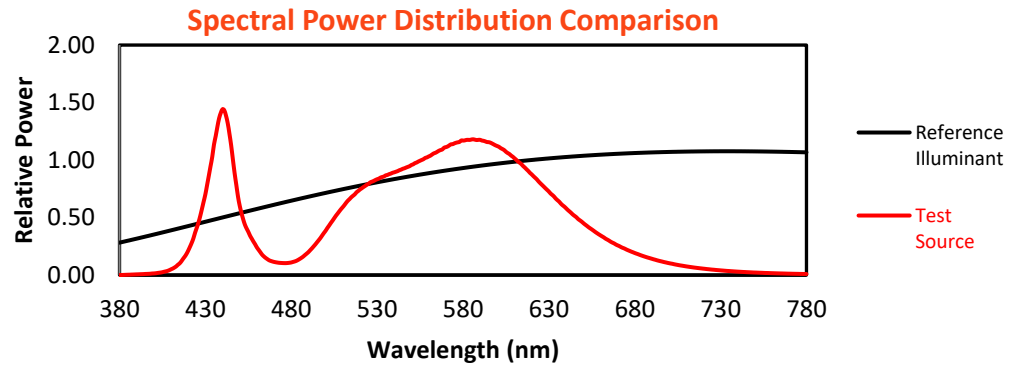
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

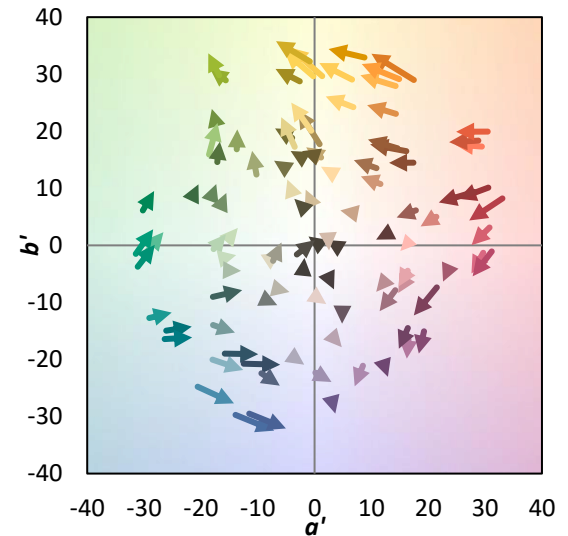
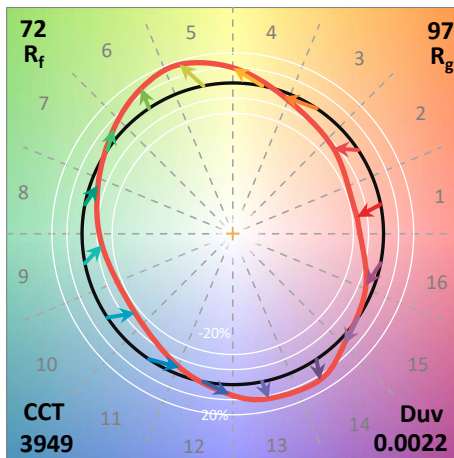
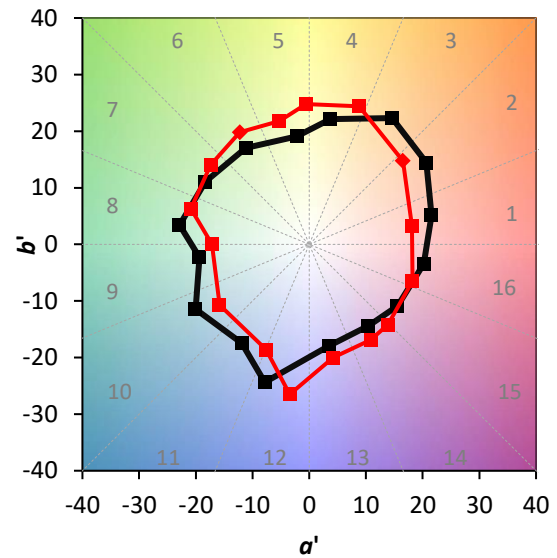
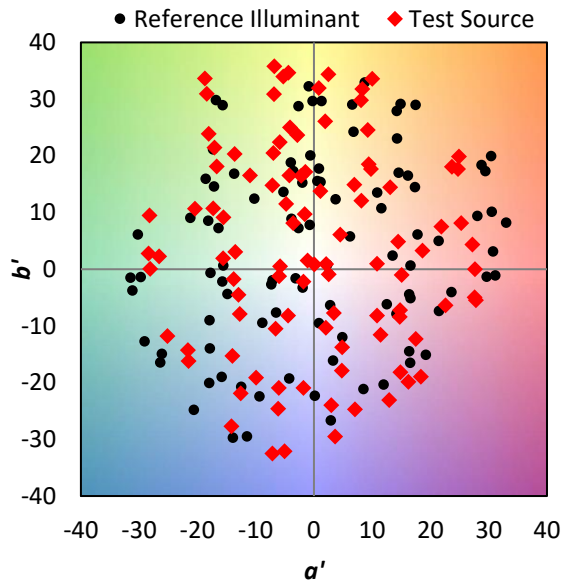
TM-30-18

Summary

$R_f = 71.8$
 $R_g = 96.5$
 $CIE R_a = 70.7$
 $R_g = -36.7$

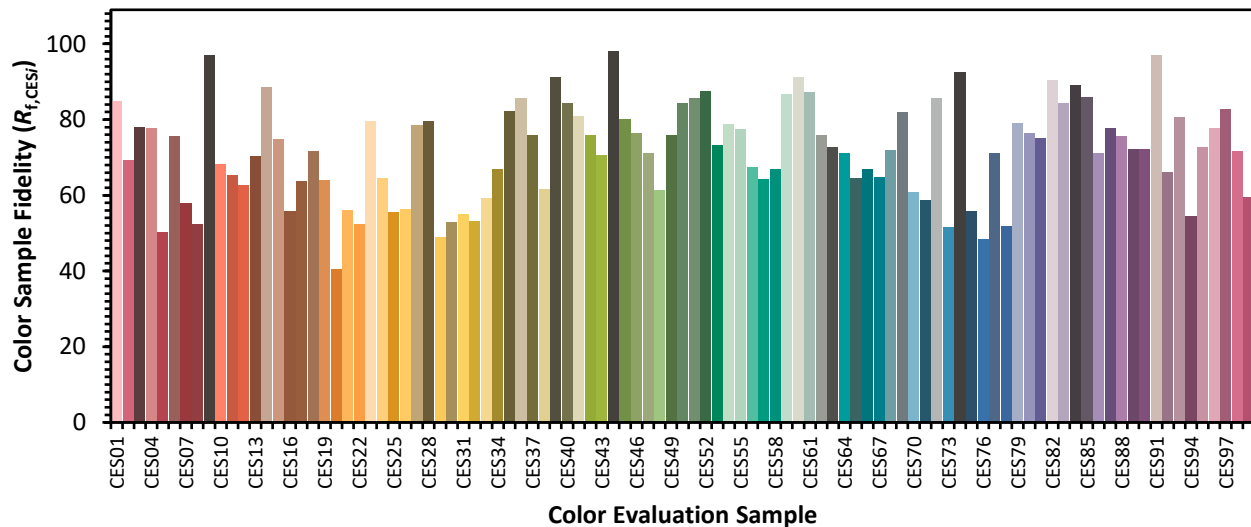


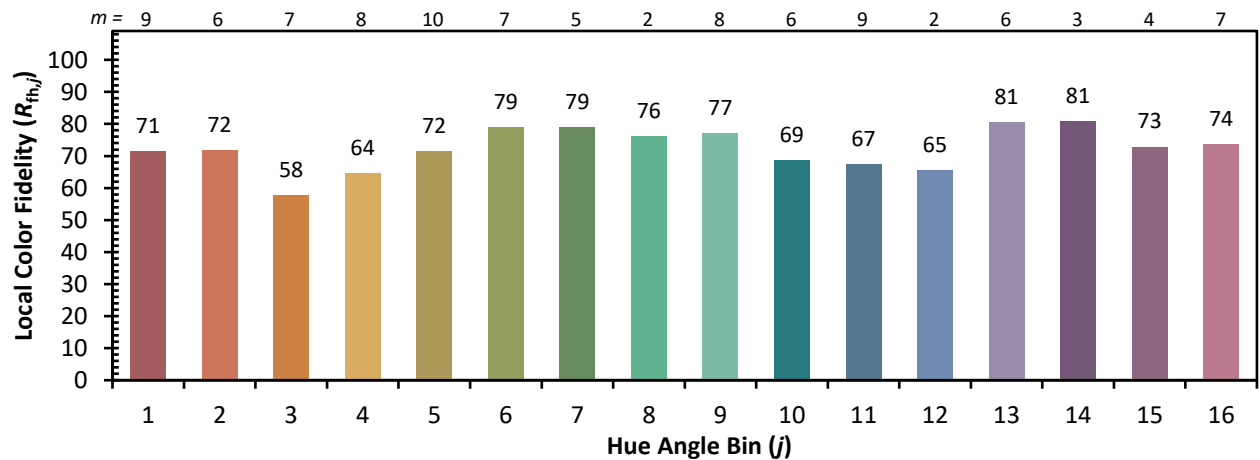
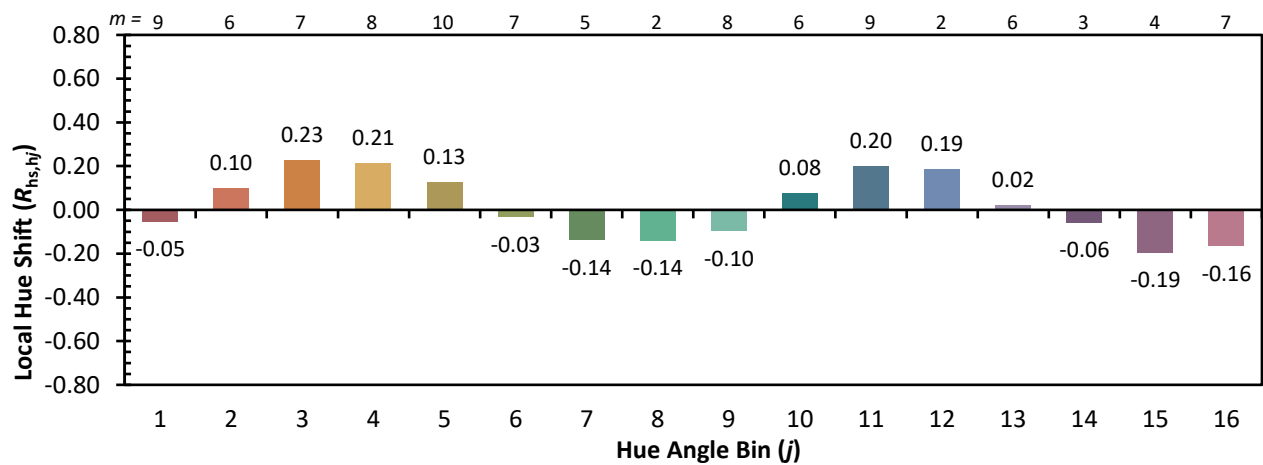
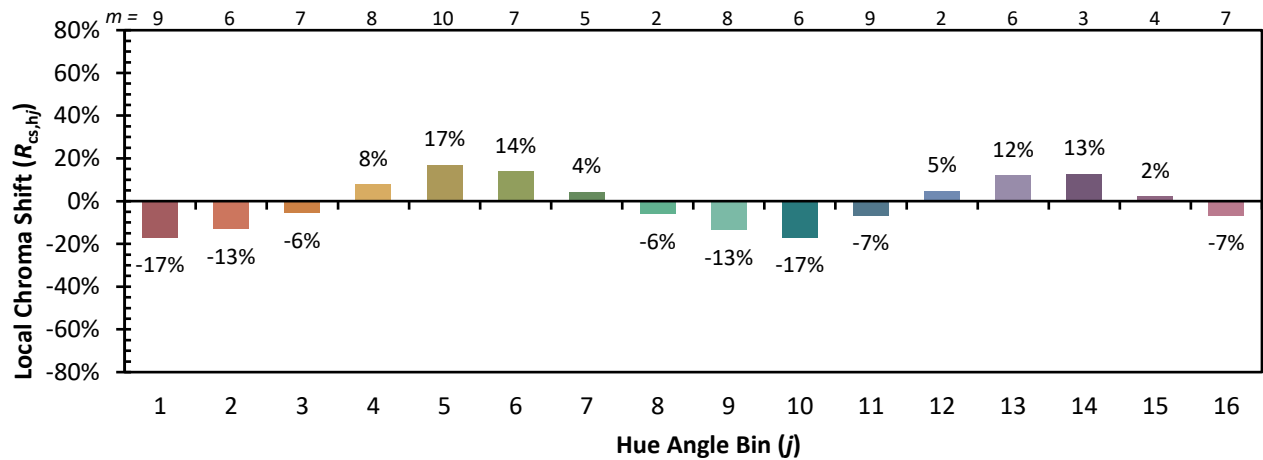
Color Vector Graphics



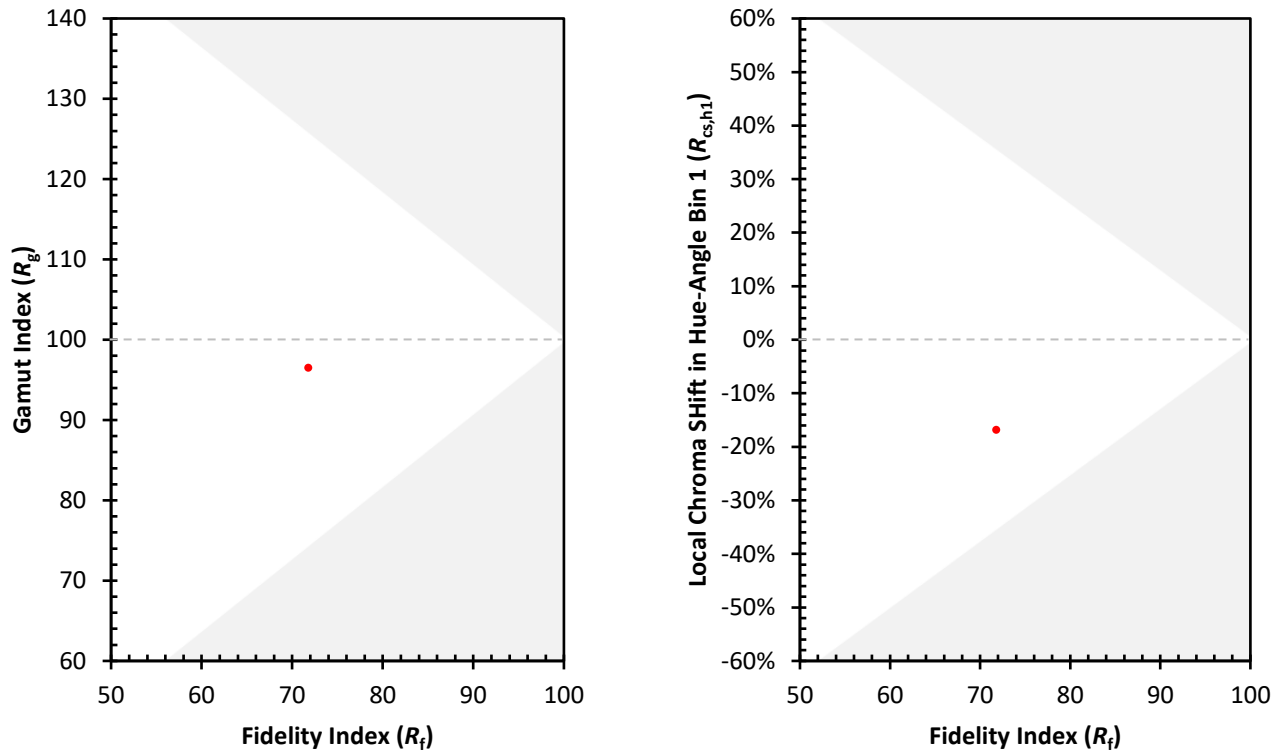
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82 = 90
CES08 = 39	CES33 = 59	CES58 = 67	CES83 = 84
CES09 = 29	CES34 = 67	CES59 = 87	CES84 = 89
CES10 = 74	CES35 = 82	CES60 = 91	CES85 = 86
CES11 = 57	CES36 = 86	CES61 = 87	CES86 = 71
CES12 = 63	CES37 = 76	CES62 = 76	CES87 = 78
CES13 = 42	CES38 = 62	CES63 = 73	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 71	CES89 = 72
CES15 = 71	CES40 = 84	CES65 = 64	CES90 = 72
CES16 = 46	CES41 = 81	CES66 = 67	CES91 = 97
CES17 = 49	CES42 = 76	CES67 = 65	CES92 = 66
CES18 = 56	CES43 = 71	CES68 = 72	CES93 = 81
CES19 = 72	CES44 = 98	CES69 = 82	CES94 = 55
CES20 = 65	CES45 = 80	CES70 = 61	CES95 = 73
CES21 = 86	CES46 = 76	CES71 = 59	CES96 = 78
CES22 = 78	CES47 = 71	CES72 = 86	CES97 = 83
CES23 = 92	CES48 = 61	CES73 = 52	CES98 = 72
CES24 = 91	CES49 = 76	CES74 = 93	CES99 = 60
CES25 = 72	CES50 = 84	CES75 = 56	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)