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: P1049507

Luminaire Tested: **GALN-SA3C-722-U-LBC**

Issue Date: 07/10/2025

Report Generated By 670245763

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1049507
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/10/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SA3C-722-U-LBC
Description:	GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 3xLight Square PACKAGE 70CRI 2200K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source:	(42) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11316.6 lumens
Efficiency:	N/A
Efficacy:	80.6 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):	140.4
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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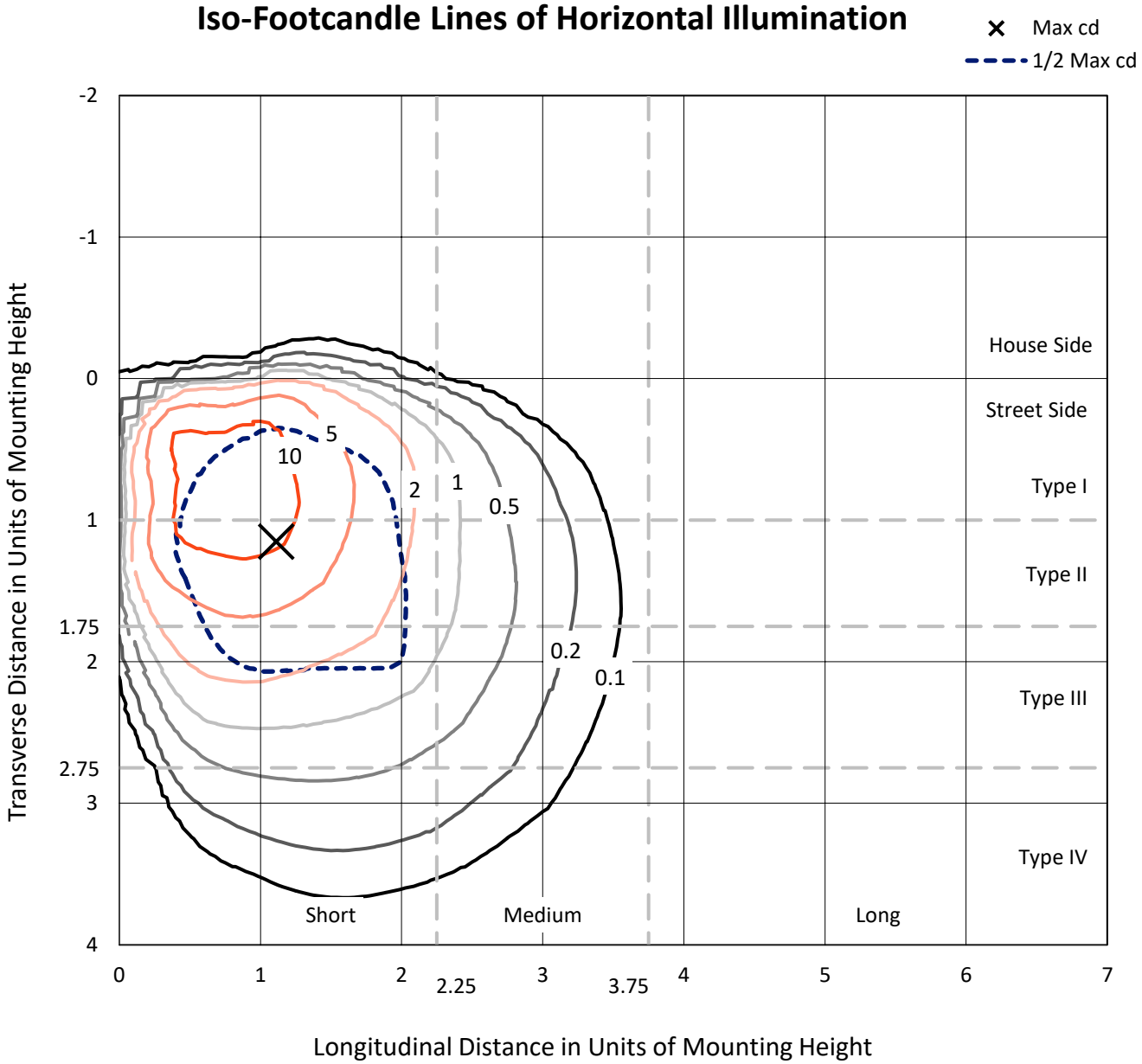
Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 19.7 fc
Type III - Short - N/A

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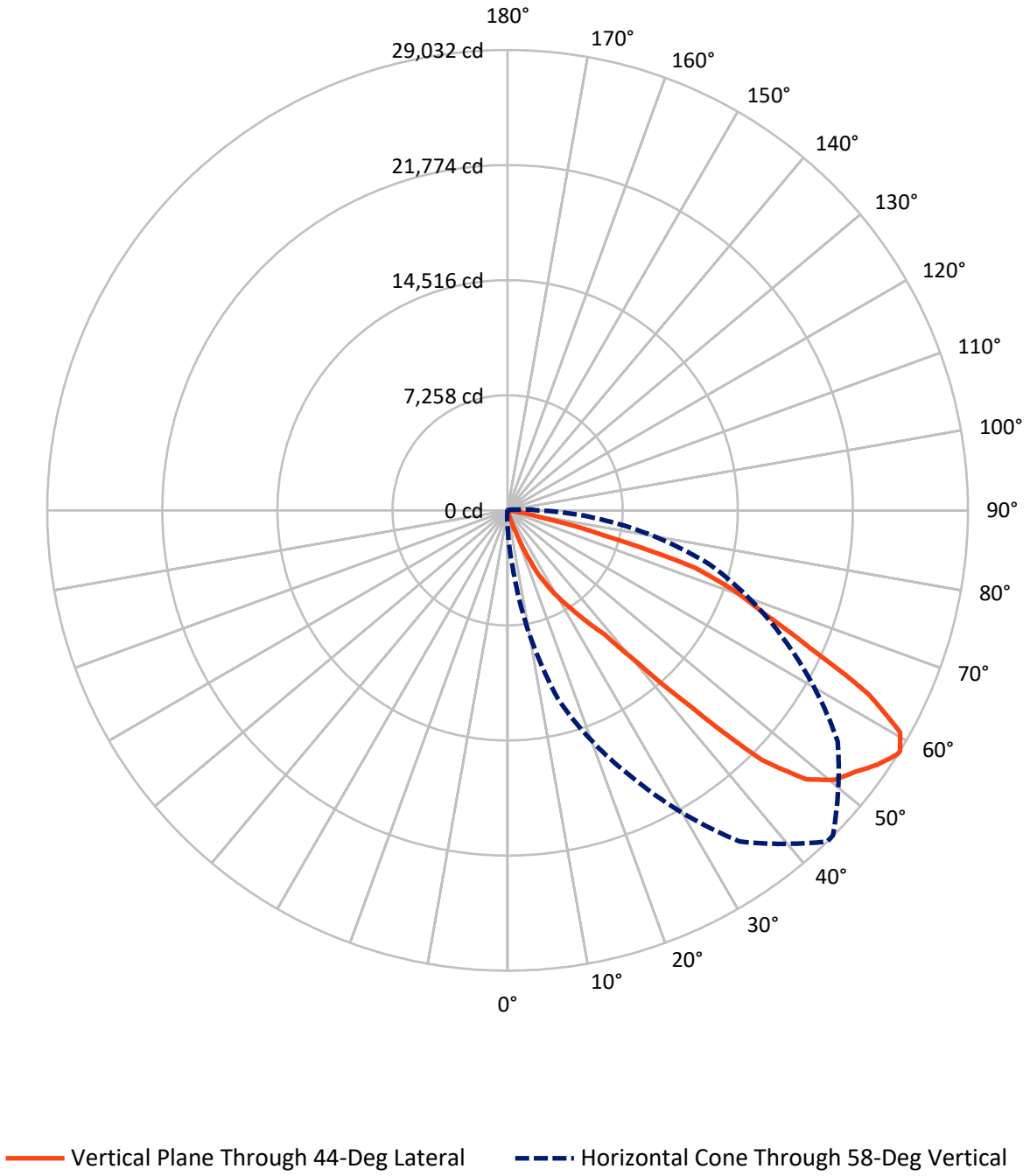
Luminous Intensity Polar Plot



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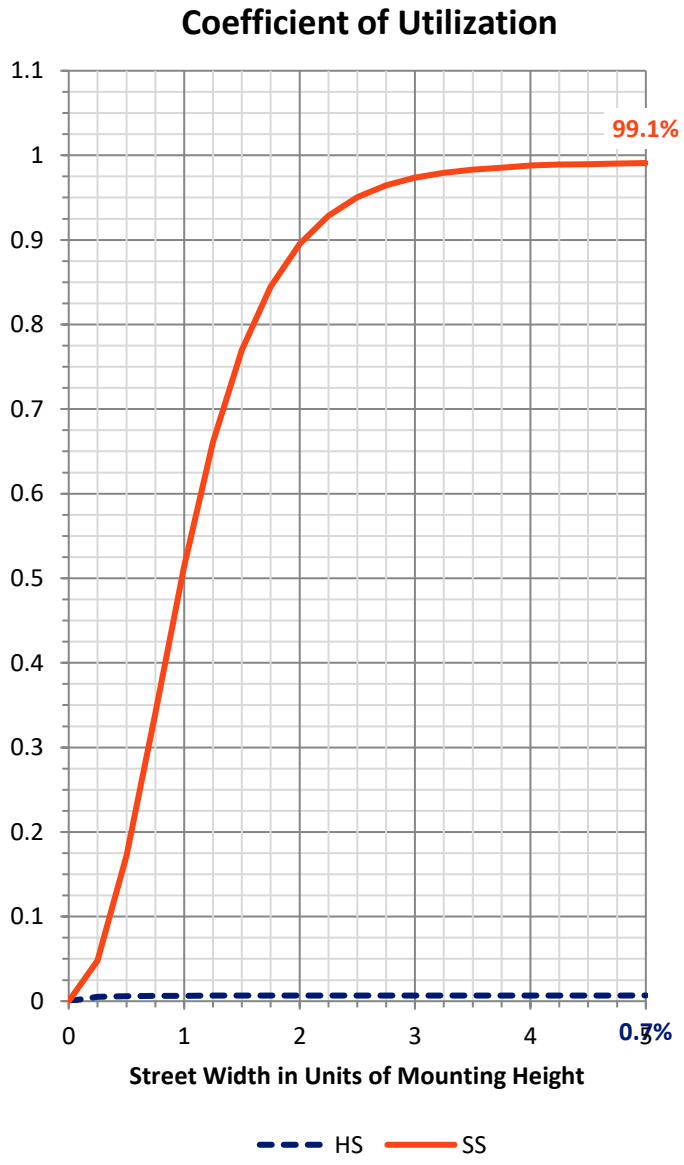
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	77.3	0.0	77.3
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	11239.3	0.0	11239.3
	% Fixture	99.3	0.0	99.3
Total	Lumens	11316.6	0.0	11316.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.4	0.0
10°-20°	24.8	0.2
20°-30°	268.1	2.4
30°-40°	792.8	7.0
40°-50°	2363.1	20.9
50°-60°	3749.6	33.1
60°-70°	3127.7	27.6
70°-80°	964.6	8.5
80°-90°	21.4	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°	11316.6	100.0
0°-180°	11316.6	100.0



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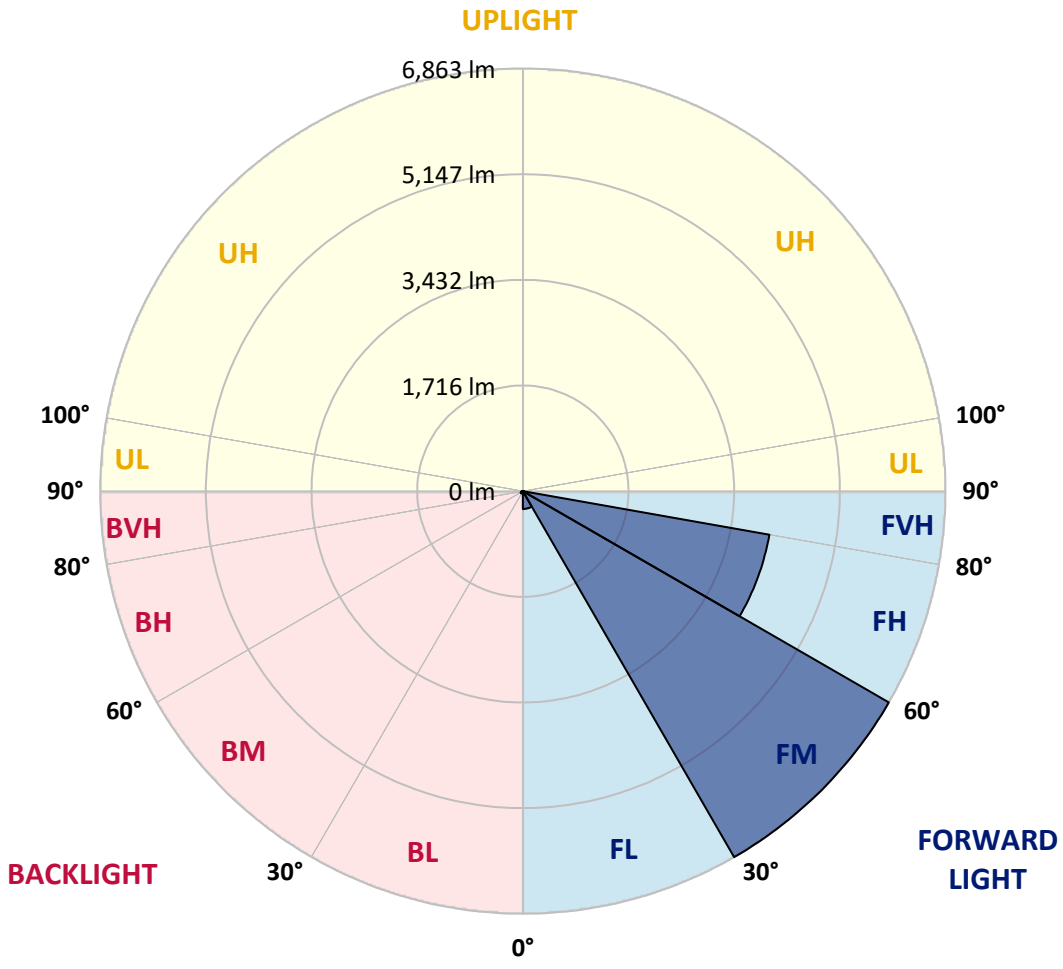
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	289.8	2.6			
FM	(30°-60°)	6863.3	60.6			
FH	(60°-80°)	4065.9	35.9			G2/5000
FVH	(80°-90°)	20.4	0.2			G1/100
BL	(0°-30°)	7.6	0.1	B0/110		
BM	(30°-60°)	42.3	0.4	B0/220		
BH	(60°-80°)	26.4	0.2	B0/110		G0/110
BVH	(80°-90°)	1.0	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-G2
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	49.6	49.6	49.6	49.6	49.6	*49.6*	49.6	49.6	49.6	49.6	49.6
2.5°	64.1	64.1	61.6	58.1	54.7	*51.3*	50.4	48.7	47.9	47.0	46.2
5°	66.7	66.7	65.8	63.3	59.8	*57.3*	57.3	54.7	53.0	51.3	49.6
7.5°	68.4	69.2	71.0	70.1	68.4	*65.8*	65.8	64.1	61.6	57.3	54.7
10°	71.0	73.5	76.9	78.6	79.5	*79.5*	78.6	77.8	73.5	67.5	60.7
12.5°	73.5	78.6	87.2	95.7	100.9	*107.7*	106.9	105.1	94.0	81.2	69.2
15°	78.6	86.3	104.3	129.1	167.6	*191.5*	200.9	192.3	155.6	109.4	80.4
17.5°	84.6	97.5	151.3	270.1	442.8	*524.9*	574.5	534.3	353.9	207.7	100.9
20°	90.6	118.8	281.3	700.1	1149.0	*1417.4*	1491.8	1375.5	883.1	395.8	149.6
22.5°	100.9	166.7	570.2	1447.3	2475.7	*2878.4*	2954.4	2582.6	1667.9	781.4	224.8
25°	122.2	241.9	983.1	2358.6	3694.8	*4374.4*	4342.8	3855.5	2705.7	1248.1	341.9
27.5°	153.0	352.2	1486.6	3351.1	4862.5	*5461.8*	5533.6	4930.9	3606.7	1835.4	485.6
30°	197.5	488.1	2026.9	4146.1	5798.6	*6446.6*	6458.6	5835.4	4412.9	2350.9	661.7
32.5°	240.2	616.4	2499.7	4914.7	6721.0	*7431.4*	7484.4	6717.6	5014.7	2887.8	814.7
35°	272.7	700.1	2978.4	5590.0	7651.1	*8630.0*	8626.5	7716.1	5727.7	3367.4	1026.7
37.5°	275.3	783.9	3411.8	6280.8	8829.1	*9925.1*	10033.7	9030.0	6589.4	3960.6	1286.6
40°	269.3	878.0	3960.6	7357.9	10951.8	*12633.3*	12729.1	11463.9	8317.9	4976.2	1692.7
42.5°	276.1	1041.2	4851.4	9347.2	14476.4	*16891.5*	17076.1	15745.9	11495.5	7048.4	2416.7
45°	312.0	1348.1	6717.6	12675.2	19500.5	*22444.7*	22383.2	20467.4	15192.8	10202.9	3849.5
47.5°	430.9	2099.6	9484.0	15914.3	22711.4	*25333.3*	25386.4	23044.9	17350.5	12628.2	5779.0
50°	662.5	3212.6	11808.4	17626.7	24092.1	*26722.5*	26672.9	23967.3	18170.4	13822.5	6961.2
52.5°	861.7	4017.9	12974.4	18227.6	24269.0	*27409.0*	27405.6	24210.0	18297.7	13925.0	7109.1
55°	911.3	4078.6	12983.8	18260.1	24665.7	*28307.5*	28420.3	24807.6	18462.7	13477.1	6552.6
57.5°	891.6	3611.0	12441.8	18448.2	25371.8	*29002.5*	29008.5	25386.4	18881.6	13202.7	5631.1
58°	*874.5*	*3537.5*	*12332.4*	*18555.0*	*25493.2*	*29031.5*	*29017.0*	*25412.9*	*19222.7*	*13192.4*	*5486.6*
60°	778.8	3071.6	11905.8	18827.8	25312.8	*28434.8*	28298.9	24834.1	19172.3	13087.3	4759.1
62.5°	612.1	2396.2	11486.1	18512.3	23379.1	*25546.2*	25602.6	21986.5	17477.9	12474.3	3901.6
65°	487.3	1785.8	10610.7	16238.3	19251.8	*20978.6*	21188.9	17878.8	14588.4	10562.8	2876.7
67.5°	388.1	1290.9	8901.0	12928.3	15233.9	*17508.7*	17661.7	15010.7	11302.3	8093.1	2044.0
70°	315.4	872.8	6144.0	9454.9	12564.9	*15122.7*	15132.1	12470.1	8435.9	5302.8	1282.3
72.5°	279.5	604.4	3566.5	6895.4	10188.4	*12323.0*	12074.2	10119.1	6483.4	3140.8	764.3
75°	241.9	400.9	1749.1	4215.4	6177.3	*6219.2*	6314.1	4694.1	3240.8	1493.5	458.2
77.5°	199.2	284.7	689.0	1151.5	1852.5	*2371.4*	2459.5	1863.6	1078.0	367.6	244.5
80°	136.8	135.1	185.5	353.1	530.0	*664.2*	619.8	479.6	282.1	141.1	87.2
82.5°	59.0	64.1	83.8	100.9	82.1	*79.5*	76.1	48.7	37.6	29.1	18.0
85°	18.8	17.1	18.0	18.0	14.5	*11.1*	11.1	5.1	0.0	0.0	0.0
87.5°	9.4	7.7	7.7	6.8	4.3	*1.7*	0.9	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°	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
2.5°	45.3	45.3	43.6	41.9	41.0	39.3	38.5	37.6	36.8	35.9	35.0
5°	47.9	47.0	44.5	41.9	39.3	36.8	35.0	33.3	31.6	30.8	29.9
7.5°	52.1	50.4	45.3	41.0	37.6	34.2	32.5	29.9	28.2	25.6	24.8
10°	57.3	53.9	47.0	41.9	36.8	32.5	29.9	27.4	24.8	21.4	20.5
12.5°	64.1	58.1	49.6	41.0	35.0	29.9	27.4	23.9	21.4	18.8	17.1
15°	70.1	62.4	50.4	41.0	33.3	27.4	23.9	20.5	18.0	14.5	12.8
17.5°	78.6	65.8	49.6	38.5	30.8	23.9	20.5	18.0	13.7	8.5	6.8
20°	93.2	68.4	47.9	35.9	26.5	19.7	15.4	12.0	6.0	1.7	0.0
22.5°	116.3	75.2	46.2	32.5	23.1	15.4	10.3	4.3	0.0	0.0	0.0
25°	160.7	87.2	46.2	30.8	20.5	11.1	3.4	0.0	0.0	0.0	0.0
27.5°	213.7	103.4	46.2	26.5	16.2	6.0	0.0	0.0	0.0	0.0	0.0
30°	267.6	121.4	46.2	23.1	12.8	0.9	0.0	0.0	0.0	0.0	0.0
32.5°	318.9	136.8	47.0	19.7	8.5	0.0	0.0	0.0	0.0	0.0	0.0
35°	371.0	139.3	46.2	17.1	5.1	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	437.7	134.2	43.6	15.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0
40°	538.6	136.8	41.0	14.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	724.9	147.9	37.6	14.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1253.2	198.3	34.2	15.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2073.1	356.5	33.3	15.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2645.8	448.8	35.0	16.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2641.6	500.1	36.8	17.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0
55°	2348.3	509.5	39.3	18.8	11.1	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1962.8	465.1	45.3	23.1	20.5	0.0	0.0	0.0	0.0	0.0	0.0
58°	*1894.4*	*444.5*	*47.0*	*23.9*	*22.2*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*
60°	1552.5	362.5	59.8	29.9	29.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1072.0	316.3	68.4	38.5	30.8	0.0	0.0	0.0	0.0	0.0	0.0
65°	758.3	285.5	74.4	41.0	24.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	566.8	263.3	82.1	41.9	12.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	434.3	247.1	100.9	44.5	3.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	353.9	228.3	122.2	46.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	293.2	206.0	118.0	50.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	194.9	159.9	107.7	50.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	68.4	63.3	83.8	44.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.3	8.5	12.0	15.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
2.5°	35.0	35.0	34.2	35.0	35.0	36.8	41.0	47.0	53.9	56.4	59.0
5°	29.1	28.2	27.4	27.4	27.4	29.9	33.3	40.2	47.9	51.3	53.0
7.5°	23.9	23.1	22.2	21.4	21.4	23.1	27.4	35.0	42.7	46.2	48.7
10°	19.7	18.0	17.1	16.2	16.2	18.0	22.2	29.9	38.5	41.9	45.3
12.5°	16.2	13.7	12.0	11.1	10.3	12.8	17.1	23.9	33.3	37.6	41.0
15°	11.1	8.5	6.0	5.1	4.3	6.8	11.1	18.8	28.2	33.3	36.8
17.5°	6.0	2.6	0.9	0.0	0.0	1.7	5.1	13.7	23.1	27.4	31.6
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	17.1	21.4	25.6
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	10.3	14.5	18.8
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	7.7	11.1
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.1
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	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	5.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	6.8	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1049507
CATALOG NUMBER: GALN-SA3C-722-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
0°	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
2.5°	60.7	59.8	58.1	56.4	56.4	56.4	59.0	61.6	64.1	64.1
5°	56.4	56.4	55.6	53.9	53.9	54.7	58.1	62.4	65.8	66.7
7.5°	52.1	53.9	52.1	51.3	52.1	53.0	56.4	61.6	66.7	68.4
10°	49.6	50.4	50.4	49.6	49.6	51.3	54.7	61.6	68.4	71.0
12.5°	46.2	47.9	47.0	47.0	47.0	48.7	53.0	60.7	70.1	73.5
15°	42.7	45.3	45.3	44.5	44.5	45.3	51.3	59.8	72.7	78.6
17.5°	39.3	41.9	42.7	41.0	41.0	42.7	48.7	59.8	74.4	84.6
20°	32.5	36.8	39.3	36.8	36.8	38.5	44.5	56.4	75.2	90.6
22.5°	25.6	29.9	33.3	32.5	32.5	33.3	41.0	53.9	76.1	100.9
25°	18.8	23.1	25.6	27.4	27.4	29.9	37.6	52.1	79.5	122.2
27.5°	11.1	16.2	19.7	21.4	22.2	25.6	35.0	50.4	85.5	153.0
30°	5.1	9.4	13.7	17.1	17.1	23.1	32.5	48.7	93.2	197.5
32.5°	0.0	4.3	6.8	12.0	12.8	18.8	29.9	47.0	104.3	240.2
35°	0.0	0.0	3.4	9.4	9.4	15.4	27.4	45.3	121.4	272.7
37.5°	0.0	0.0	0.0	6.8	7.7	13.7	26.5	44.5	124.8	275.3
40°	0.0	0.0	0.0	5.1	6.0	12.8	26.5	45.3	112.8	269.3
42.5°	0.0	0.0	0.0	3.4	4.3	12.8	26.5	47.0	101.7	276.1
45°	0.0	0.0	0.0	2.6	3.4	13.7	25.6	46.2	95.7	312.0
47.5°	0.0	0.0	0.0	3.4	5.1	13.7	24.8	45.3	96.6	430.9
50°	0.0	0.0	0.0	4.3	6.0	13.7	25.6	43.6	106.0	662.5
52.5°	0.0	0.0	0.0	3.4	5.1	15.4	28.2	42.7	115.4	861.7
55°	0.0	0.0	0.0	0.9	2.6	19.7	30.8	42.7	129.9	911.3
57.5°	0.0	0.0	0.0	0.0	0.0	22.2	35.0	45.3	153.9	891.6
58°	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*22.2*	*35.9*	*45.3*	*155.6*	*874.5*
60°	0.0	0.0	0.0	0.0	0.0	22.2	39.3	50.4	167.6	778.8
62.5°	0.0	0.0	0.0	0.0	0.0	18.8	47.0	63.3	174.4	612.1
65°	0.0	0.0	0.0	0.0	0.0	15.4	55.6	69.2	179.5	487.3
67.5°	0.0	0.0	0.0	0.0	0.0	14.5	57.3	70.1	182.1	388.1
70°	0.0	0.0	0.0	0.0	0.0	15.4	56.4	75.2	190.6	315.4
72.5°	0.0	0.0	0.0	0.0	0.0	17.1	51.3	82.9	190.6	279.5
75°	0.0	0.0	0.0	0.0	0.0	18.0	47.9	93.2	173.5	241.9
77.5°	0.0	0.0	0.0	0.0	0.0	17.1	47.0	108.6	154.7	199.2
80°	1.7	2.6	2.6	1.7	1.7	14.5	46.2	110.3	131.7	136.8
82.5°	5.1	6.8	6.0	4.3	4.3	12.8	41.0	92.3	68.4	59.0
85°	9.4	11.1	11.1	9.4	9.4	12.0	25.6	33.3	23.1	18.8
87.5°	12.8	14.5	14.5	12.8	12.8	12.0	11.1	10.3	9.4	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

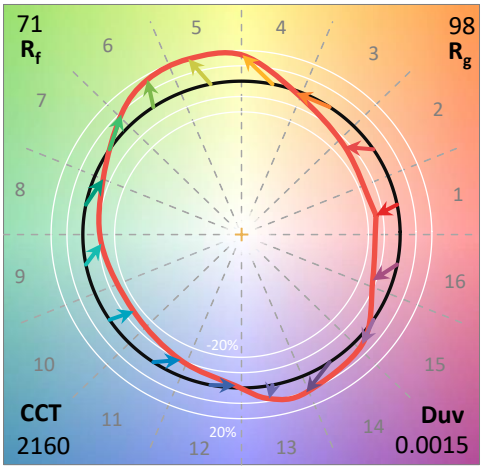
Test Information

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
CIE u':	0.2927
CIE v':	0.5388
Duv:	0.0015
CIE x:	0.5130
CIE y:	0.4197
CIE z:	0.0674
Peak Wavelength (nm):	609
Dominant Wavelength (nm):	587
Purity:	79.96089
Rf:	70.6
Rg:	97.6

CRI (Ra):	71.9
R1:	68.7
R2:	82.6
R3:	95.5
R4:	66.4
R5:	65.4
R6:	75.9
R7:	77.2
R8:	43.5
R9:	-17.8
R10:	60.5
R11:	60.2
R12:	48.2
R13:	70.7
R14:	96.8
R15:	61.8



Test Conditions

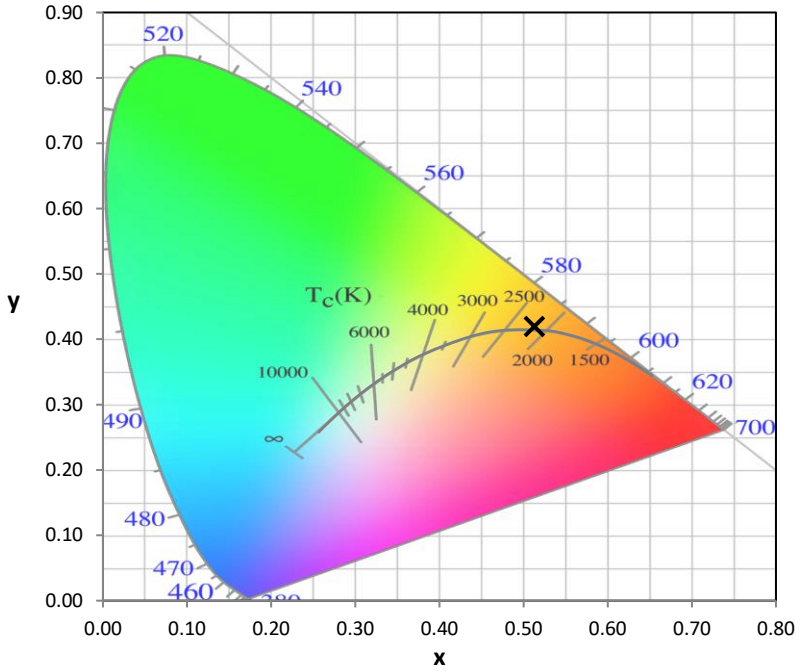
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-2

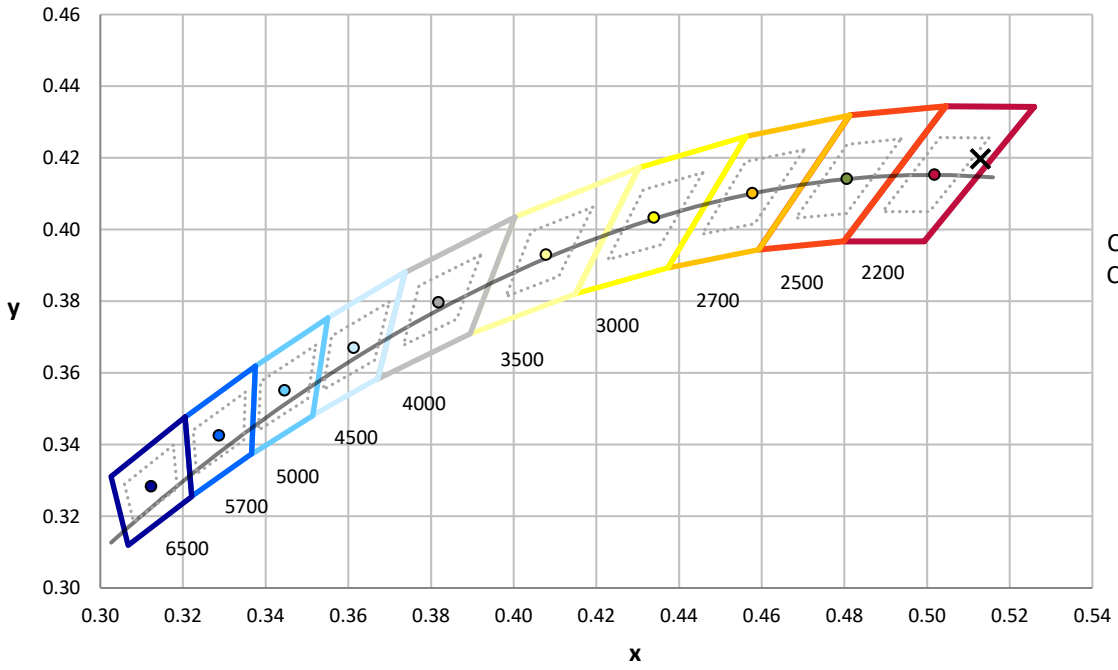
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-2

CIE 1931 Chromaticity Diagram



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

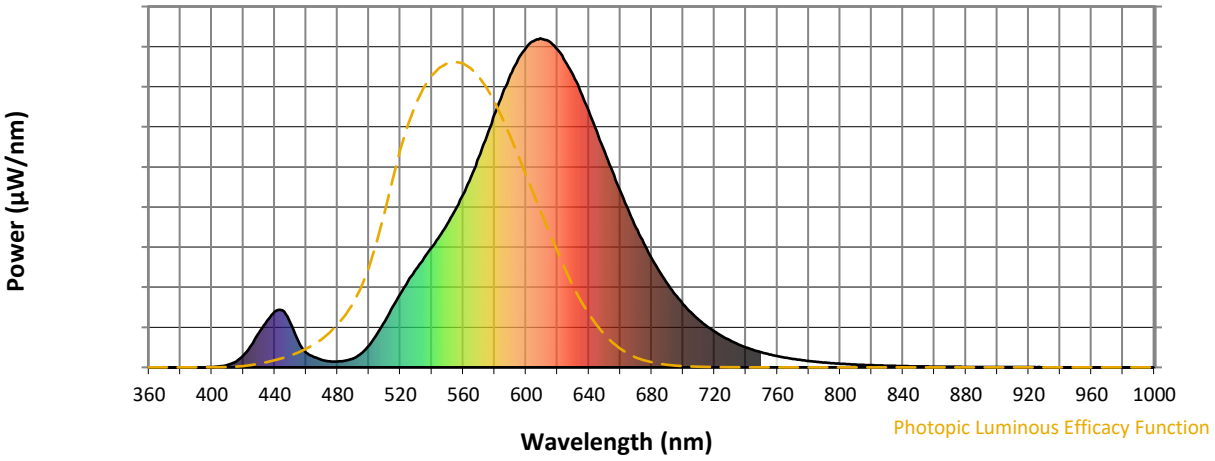


CCT = 2160K
CIE x = 0.5130
CIE y = 0.4197
Duv = 0.0015

Point lies inside the ANSI 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

Photopic Flux vs. Wavelength

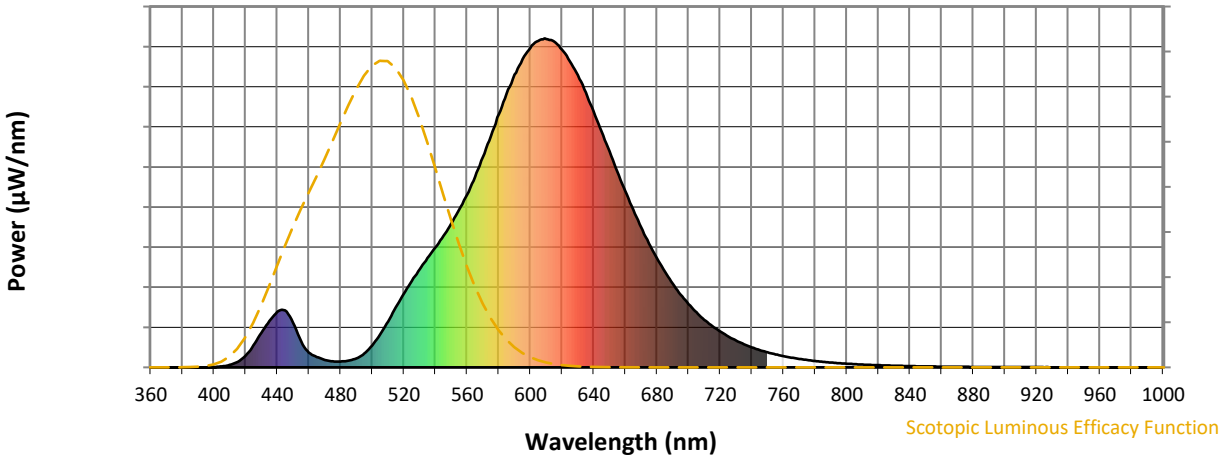


Photopic Lumens: NR

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

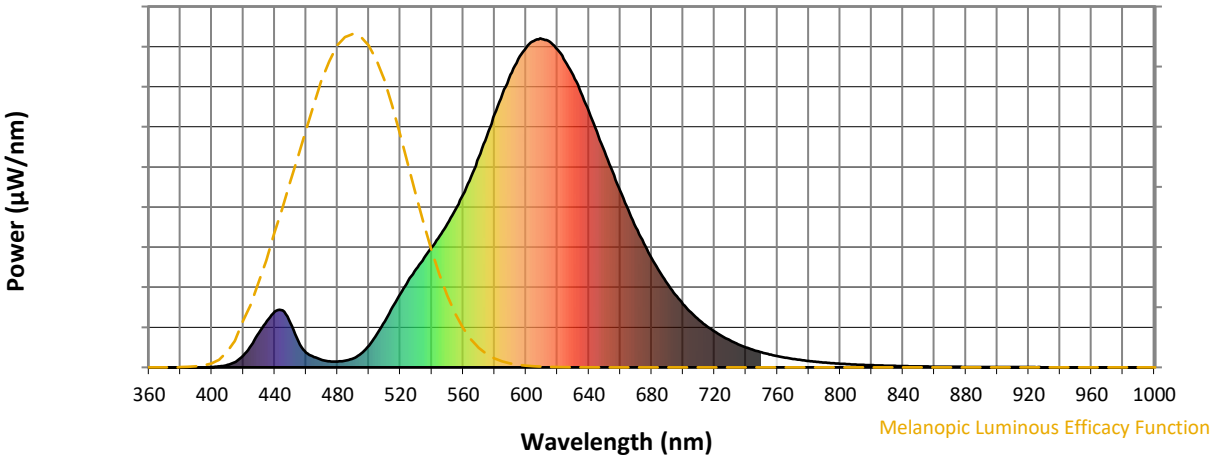


Scotopic Lumens: NR **S/P: 0.8**

λ (nm)	Power 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

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.21**

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			

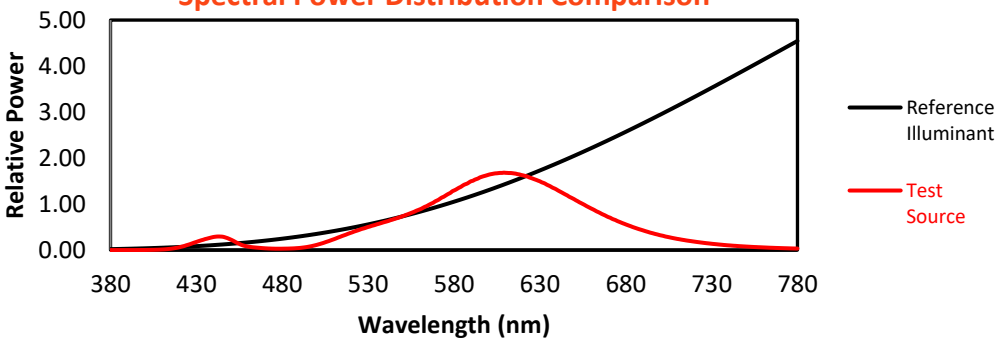
REPORT NUMBER: SP1-2407-184-2

TM-30-18

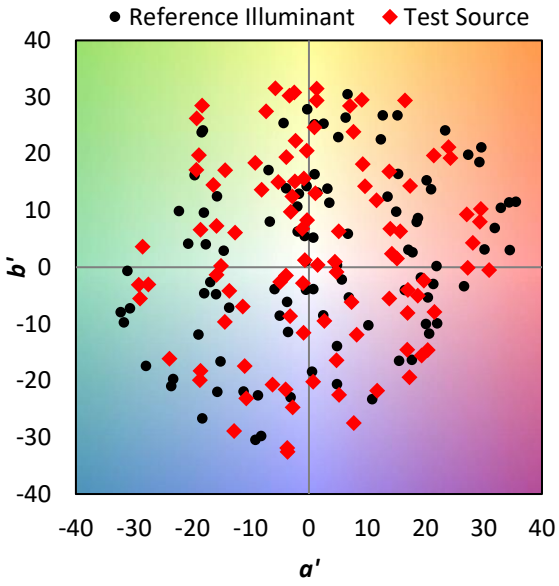
Summary

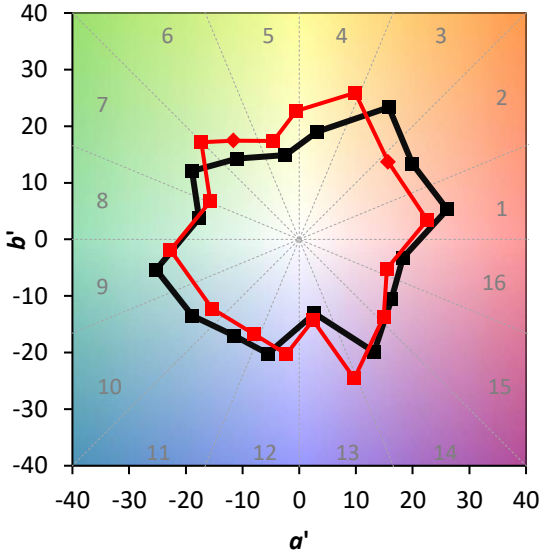
R_f = 70.6
R_g = 97.6
CIE R_a = 71.9
R_9 = -17.8

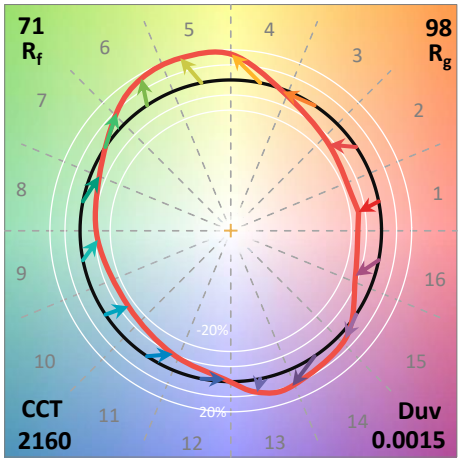
Spectral Power Distribution Comparison

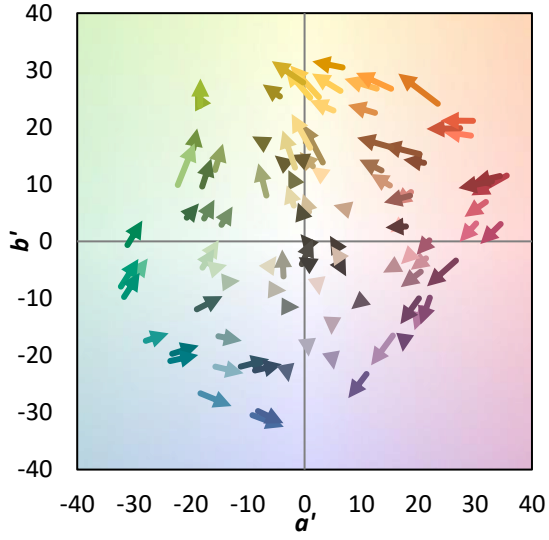


Color Vector Graphics







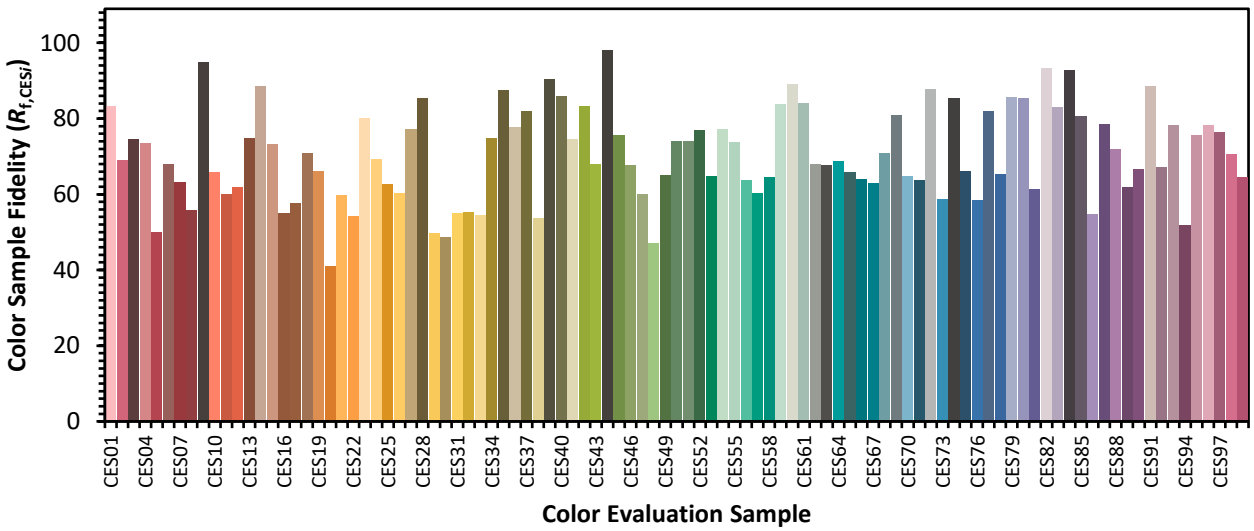


REPORT NUMBER: SP1-2407-184-2

TM-30-18

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	



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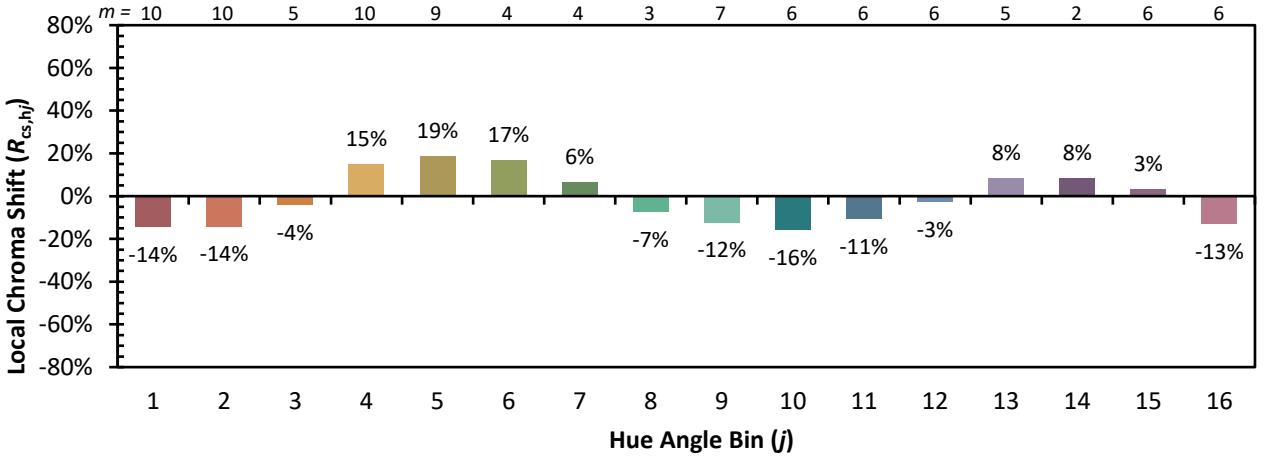
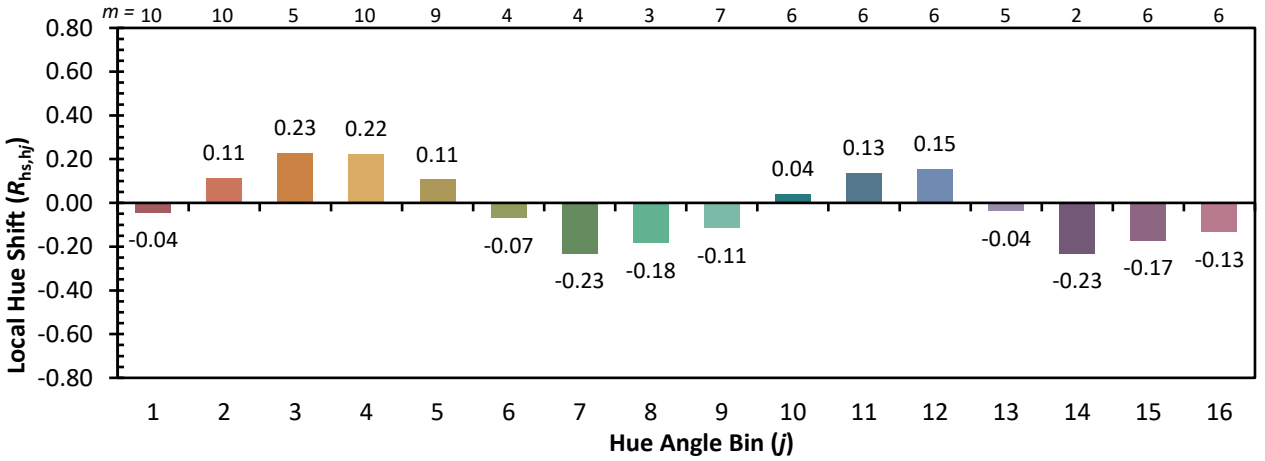
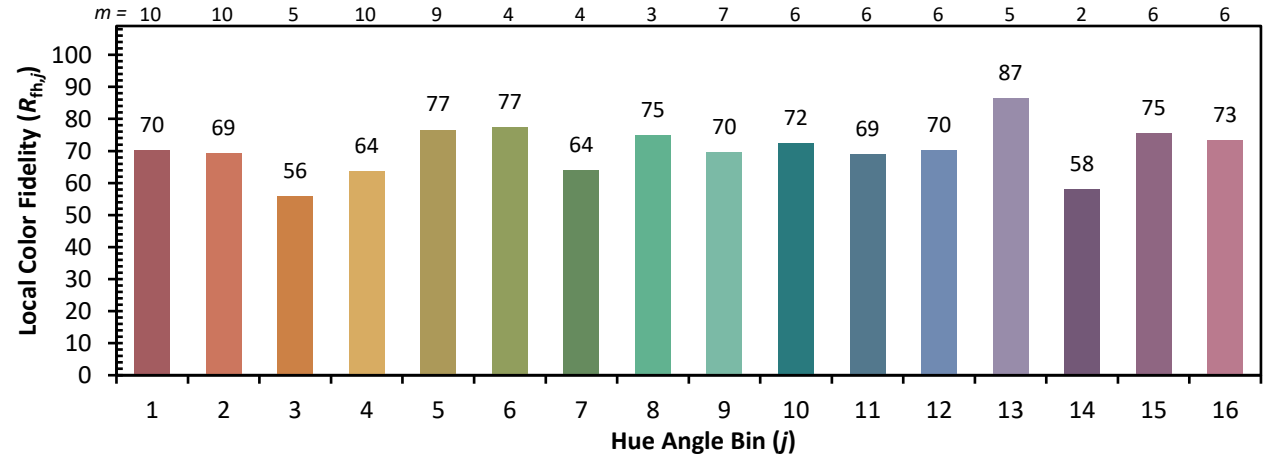
Color Rendition by Hue-Angle Bin







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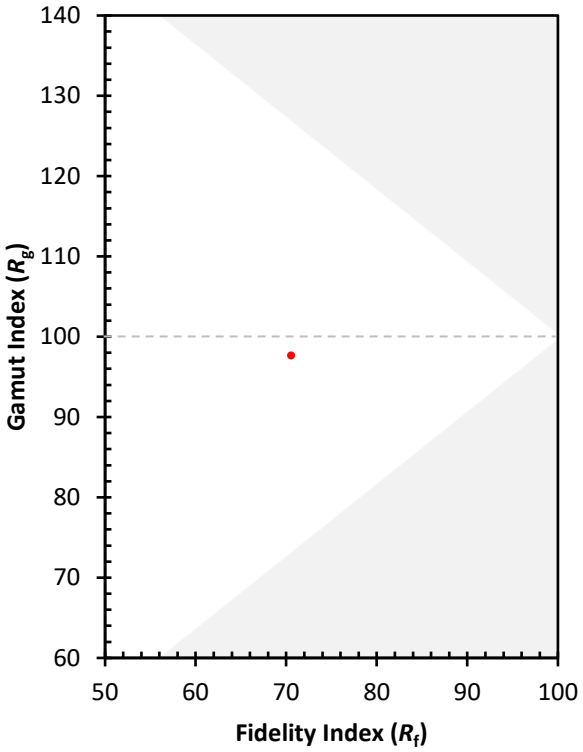
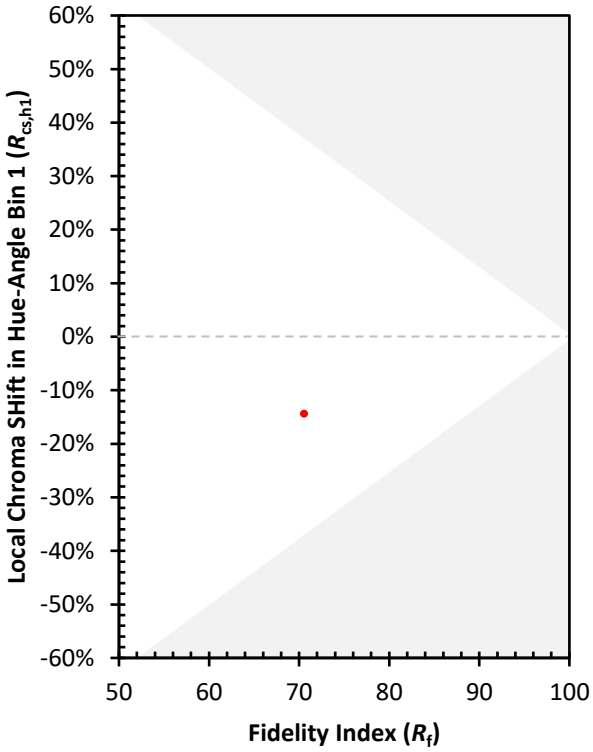
Measure Comparisons





(END OF REPORT)