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: LUMARK

Report Number: P1067944

Luminaire Tested: **NAV-SA1D-730-U-LBC**

Issue Date: 08/07/2025

Report Generated By 670347003

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1067944
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	08/07/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	LUMARK
Catalog Number:	NAV-SA1D-730-U-LBC
Description:	Navion AREA AND ROADWAY LUMINAIRE 1200mA 1xLight Square PACKAGE 70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source:	(14) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5004 lumens
Efficiency:	N/A
Efficacy:	88.6 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B0 - U0 - G2

Input Watts (W):	56.5
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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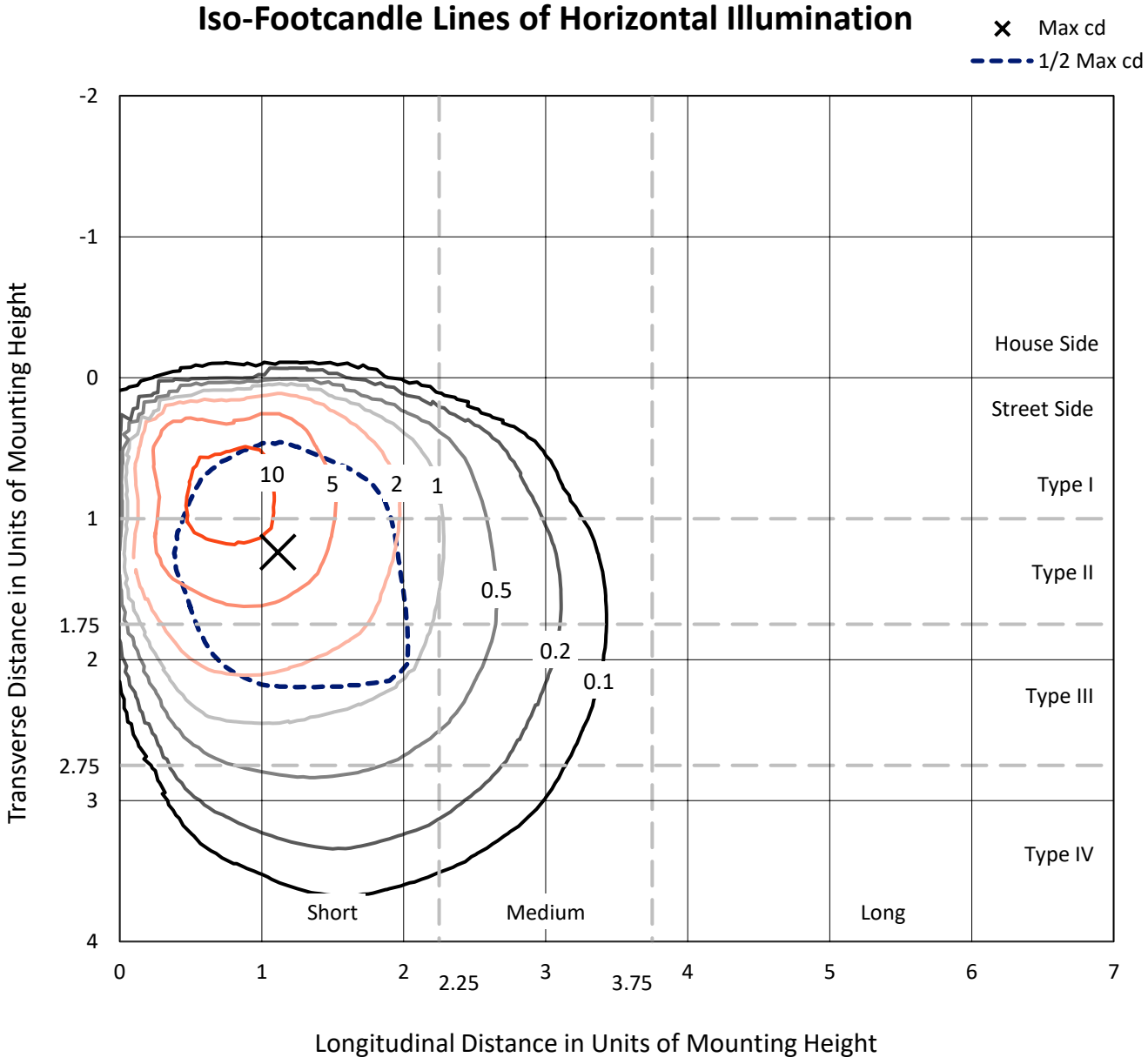
Iso-Footcandle Lines of Horizontal Illumination



Based on 15 foot mounting height. Maximum calculated value = 14.9 fc
Type III - Short - N/A

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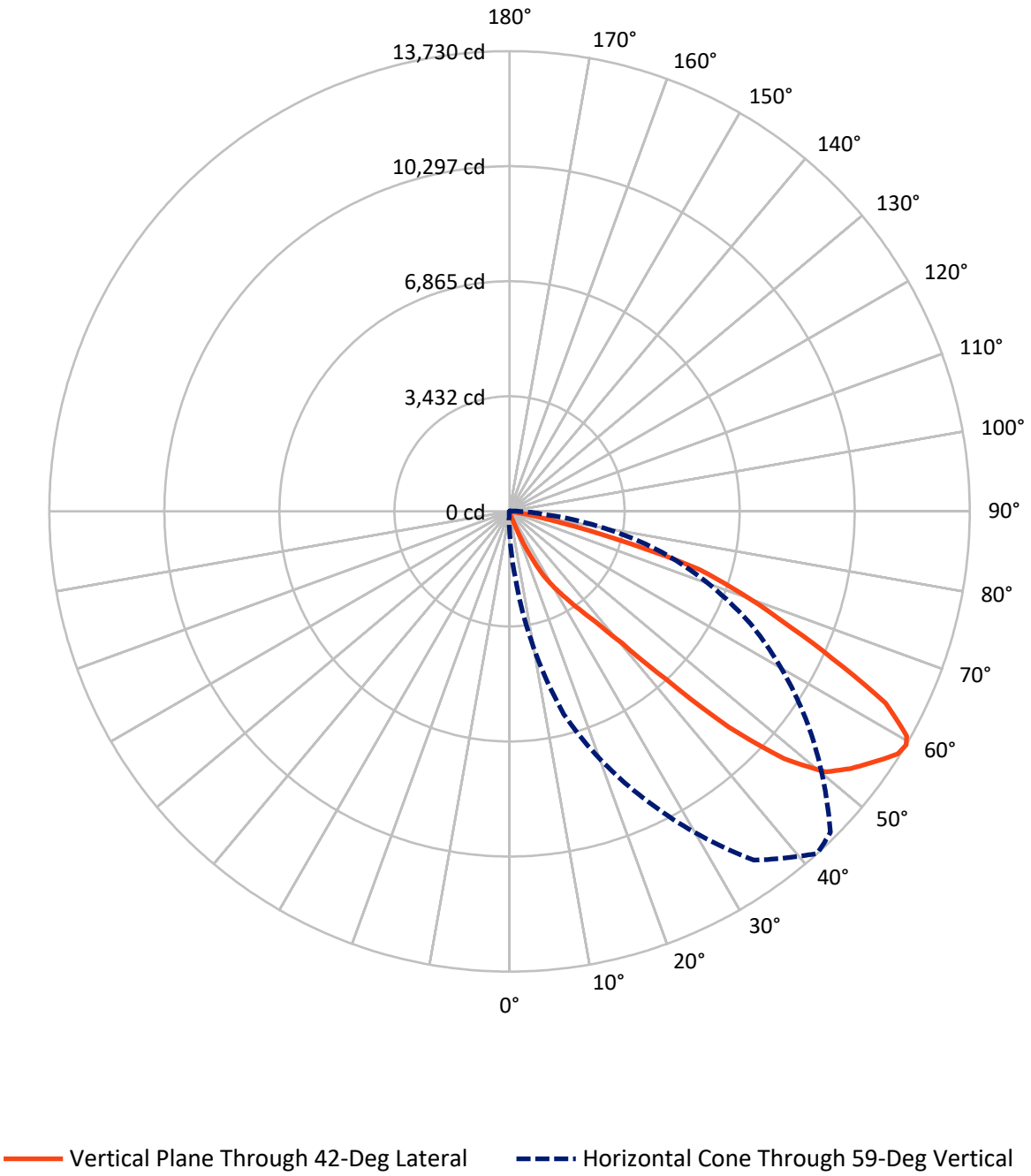
Luminous Intensity Polar Plot



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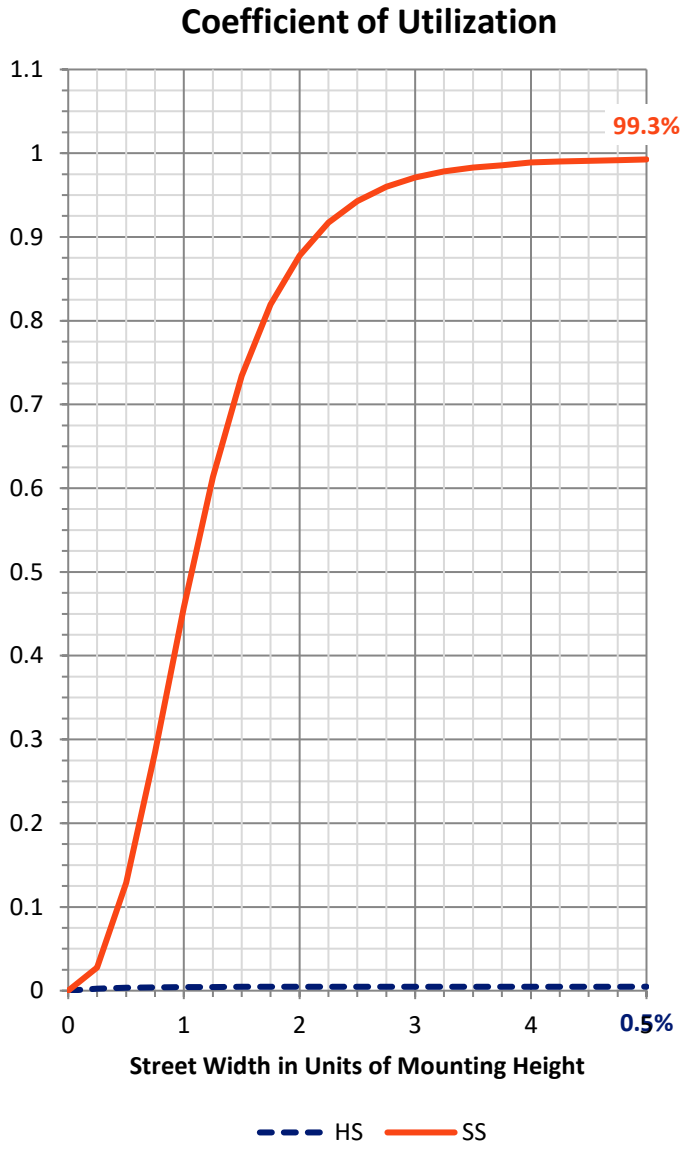
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24.1	0.0	24.1
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	4979.9	0.0	4979.9
	% Fixture	99.5	0.0	99.5
Total	Lumens	5004.0	0.0	5004.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.0
10°-20°	7.3	0.1
20°-30°	93.3	1.9
30°-40°	314.7	6.3
40°-50°	950.5	19.0
50°-60°	1677.9	33.5
60°-70°	1477.4	29.5
70°-80°	470.2	9.4
80°-90°	11.2	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°	5004.0	100.0
0°-180°	5004.0	100.0



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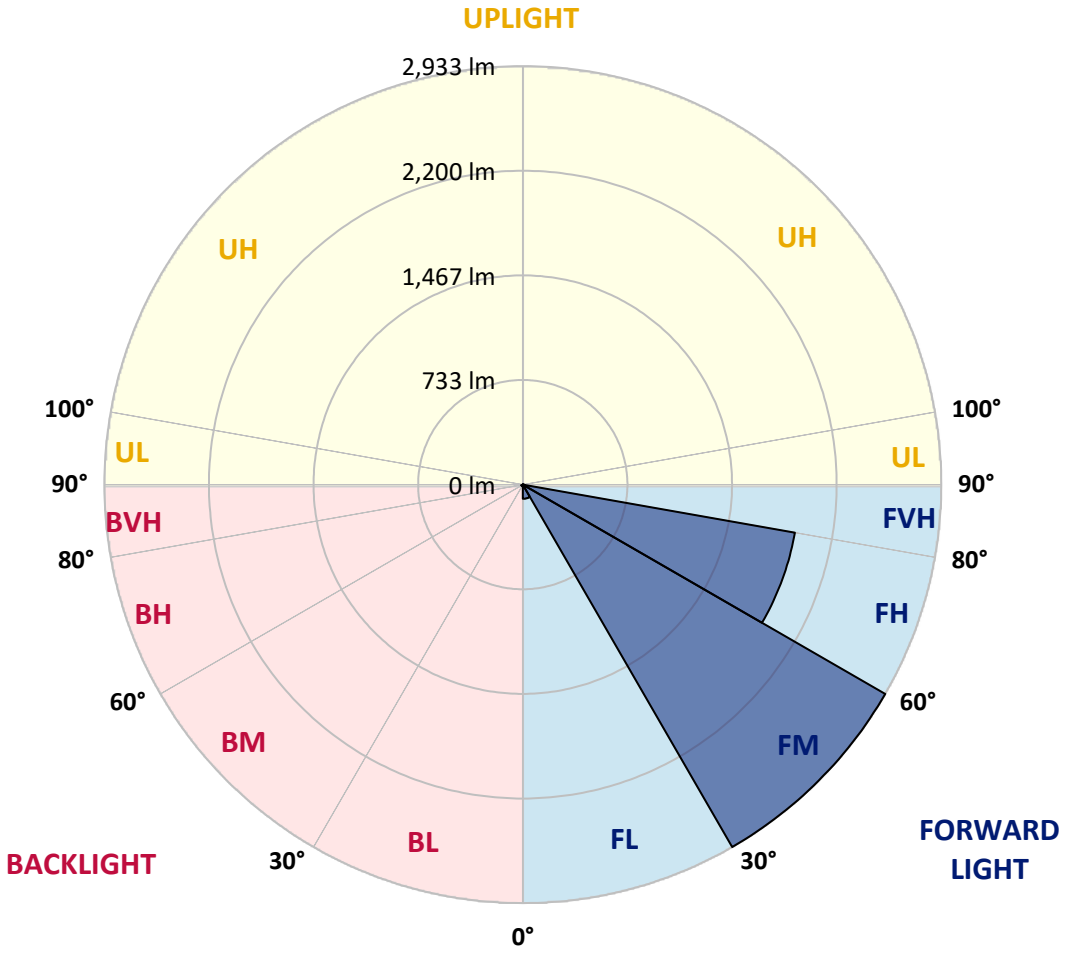
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	99.4	2.0			
FM	(30°-60°)	2933.2	58.6			
FH	(60°-80°)	1936.6	38.7			G2/5000
FVH	(80°-90°)	10.7	0.2			G1/100
BL	(0°-30°)	2.7	0.1	B0/110		
BM	(30°-60°)	9.8	0.2	B0/220		
BH	(60°-80°)	11.0	0.2	B0/110		G0/110
BVH	(80°-90°)	0.5	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-G2
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
2.5°	22.0	22.0	20.4	18.8	17.3	15.7	15.7	15.7	14.1	14.1	12.6
5°	25.1	25.1	23.5	22.0	22.0	20.4	20.4	18.8	17.3	17.3	15.7
7.5°	26.7	26.7	26.7	26.7	25.1	25.1	25.1	23.5	22.0	20.4	18.8
10°	28.2	29.8	31.4	31.4	31.4	31.4	31.4	29.8	26.7	25.1	22.0
12.5°	31.4	32.9	36.1	39.2	39.2	40.8	39.2	37.7	34.5	29.8	25.1
15°	34.5	37.7	42.4	48.6	54.9	56.5	56.5	51.8	45.5	36.1	29.8
17.5°	39.2	43.9	56.5	76.9	98.8	116.1	116.1	103.5	72.2	47.1	34.5
20°	42.4	51.8	91.0	185.1	282.4	354.6	340.5	301.2	161.6	73.7	37.7
22.5°	47.1	65.9	193.0	486.4	753.1	884.9	853.5	648.0	362.4	131.8	45.5
25°	53.3	95.7	382.8	911.5	1399.5	1542.3	1521.9	1209.6	660.5	221.2	58.1
27.5°	65.9	141.2	613.5	1382.2	2064.7	2187.1	2179.2	1771.3	1055.9	356.1	75.3
30°	83.2	205.5	910.0	1878.0	2505.6	2629.5	2590.3	2182.4	1424.6	544.4	97.3
32.5°	103.5	287.1	1178.3	2243.6	2911.9	3075.1	3028.0	2540.1	1721.1	704.4	144.3
35°	134.9	367.1	1443.4	2566.8	3381.0	3588.1	3509.7	2908.8	1976.8	884.9	174.2
37.5°	150.6	414.2	1686.6	2918.2	3908.2	4190.6	4131.0	3374.8	2237.3	1115.5	213.4
40°	152.2	470.7	1939.2	3376.3	4653.4	5157.1	5050.4	4174.9	2722.1	1412.0	274.6
42.5°	156.9	555.4	2267.1	4157.7	6117.2	6840.5	6719.7	5646.6	3821.9	2006.7	389.1
45°	178.9	715.4	2935.5	5618.3	8127.0	9187.6	9048.0	7697.2	5357.9	3125.3	663.7
47.5°	255.7	1076.3	4107.5	7195.1	10182.3	11028.0	10993.5	9313.2	6749.5	4272.2	1124.9
50°	411.1	1652.1	5441.0	8520.8	11490.8	12217.2	12130.9	9987.8	7543.4	5055.1	1441.8
52.5°	549.1	2202.8	6278.8	9008.8	11881.5	12747.5	12642.4	10234.1	7752.1	5285.7	1529.7
55°	583.6	2402.0	6528.3	9159.4	12140.4	13196.2	13044.1	10398.9	7778.7	5121.0	1383.8
57.5°	566.4	2213.8	6366.7	9306.9	12501.2	13657.5	13455.1	10720.5	7868.2	4841.7	1151.6
59°	536.6	1981.6	6266.3	9424.5	12700.5	13729.7	13539.8	10791.1	7927.8	4714.6	1010.4
60°	502.1	1824.7	6187.8	9501.4	12687.9	13616.7	13420.6	10758.1	7951.3	4604.8	942.9
62.5°	387.5	1456.0	6074.9	9446.5	11895.6	12585.9	12474.5	9951.7	7606.2	4253.4	743.7
65°	301.2	1113.9	5660.7	8425.1	10122.7	10587.1	10552.6	8426.7	6401.2	3666.6	536.6
67.5°	238.5	812.7	4786.8	6823.3	8144.3	8804.8	8779.7	6840.5	4859.0	2802.1	386.0
70°	194.5	578.9	3282.2	5144.5	6514.2	7345.7	7309.6	5505.4	3600.7	1777.6	280.8
72.5°	164.7	370.3	1991.0	3878.4	5436.3	5911.7	5806.6	4441.6	2618.5	968.0	222.8
75°	139.6	227.5	986.9	2417.7	3238.3	3235.1	3130.0	2351.8	1405.8	473.8	177.3
77.5°	113.0	160.0	387.5	663.7	1021.4	1264.6	1244.2	833.1	420.5	138.1	109.8
80°	73.7	75.3	103.5	182.0	280.8	310.6	353.0	254.2	122.4	65.9	45.5
82.5°	32.9	36.1	47.1	59.6	59.6	54.9	48.6	36.1	26.7	22.0	11.0
85°	7.8	11.0	7.8	9.4	7.8	6.3	6.3	3.1	0.0	0.0	0.0
87.5°	1.6	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
2.5°	12.6	12.6	12.6	11.0	11.0	11.0	9.4	9.4	9.4	7.8	7.8
5°	15.7	14.1	12.6	12.6	11.0	11.0	9.4	7.8	7.8	7.8	6.3
7.5°	17.3	15.7	14.1	12.6	11.0	9.4	9.4	7.8	6.3	6.3	6.3
10°	20.4	18.8	15.7	12.6	11.0	9.4	7.8	7.8	6.3	4.7	4.7
12.5°	23.5	20.4	17.3	14.1	11.0	9.4	7.8	7.8	6.3	4.7	3.1
15°	26.7	23.5	18.8	14.1	11.0	9.4	7.8	7.8	4.7	3.1	1.6
17.5°	29.8	25.1	18.8	15.7	11.0	9.4	7.8	6.3	3.1	1.6	0.0
20°	31.4	26.7	20.4	15.7	11.0	9.4	7.8	4.7	1.6	0.0	0.0
22.5°	34.5	29.8	22.0	15.7	11.0	7.8	4.7	1.6	0.0	0.0	0.0
25°	40.8	31.4	22.0	15.7	11.0	7.8	3.1	0.0	0.0	0.0	0.0
27.5°	45.5	34.5	22.0	15.7	11.0	6.3	1.6	0.0	0.0	0.0	0.0
30°	53.3	37.7	23.5	15.7	11.0	4.7	1.6	0.0	0.0	0.0	0.0
32.5°	65.9	40.8	23.5	15.7	9.4	4.7	0.0	0.0	0.0	0.0	0.0
35°	80.0	47.1	23.5	15.7	9.4	4.7	0.0	0.0	0.0	0.0	0.0
37.5°	81.6	50.2	23.5	15.7	9.4	3.1	0.0	0.0	0.0	0.0	0.0
40°	84.7	47.1	25.1	15.7	9.4	3.1	0.0	0.0	0.0	0.0	0.0
42.5°	97.3	43.9	26.7	15.7	9.4	3.1	0.0	0.0	0.0	0.0	0.0
45°	144.3	45.5	26.7	17.3	9.4	4.7	0.0	0.0	0.0	0.0	0.0
47.5°	251.0	47.1	25.1	17.3	9.4	4.7	0.0	0.0	0.0	0.0	0.0
50°	321.6	54.9	25.1	18.8	11.0	3.1	0.0	0.0	0.0	0.0	0.0
52.5°	342.0	64.3	25.1	20.4	14.1	1.6	0.0	0.0	0.0	0.0	0.0
55°	332.6	75.3	26.7	22.0	17.3	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	307.5	81.6	28.2	23.5	18.8	0.0	0.0	0.0	0.0	0.0	0.0
59°	*280.8*	*86.3*	*32.9*	*25.1*	*18.8*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*
60°	258.9	91.0	34.5	26.7	18.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	208.7	97.3	37.7	31.4	15.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	182.0	102.0	39.2	34.5	14.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	166.3	105.1	42.4	36.1	12.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	153.8	103.5	45.5	34.5	11.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	139.6	98.8	54.9	31.4	9.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	125.5	89.4	59.6	28.2	6.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	91.0	75.3	54.9	25.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	39.2	40.8	39.2	18.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.8	9.4	7.8	4.7	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°	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
2.5°	7.8	7.8	7.8	7.8	9.4	9.4	12.6	15.7	18.8	20.4	20.4
5°	6.3	6.3	6.3	6.3	6.3	7.8	9.4	12.6	17.3	18.8	18.8
7.5°	4.7	4.7	4.7	4.7	4.7	4.7	7.8	11.0	15.7	17.3	18.8
10°	4.7	3.1	3.1	1.6	1.6	3.1	4.7	9.4	14.1	15.7	17.3
12.5°	3.1	1.6	1.6	0.0	0.0	1.6	3.1	7.8	12.6	14.1	15.7
15°	1.6	0.0	0.0	0.0	0.0	0.0	1.6	6.3	11.0	12.6	15.7
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	9.4	12.6	14.1
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	7.8	11.0	12.6
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	6.3	9.4	11.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	6.3	7.8
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	4.7	6.3
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	4.7	6.3
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.1	4.7
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.1	4.7
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.1	3.1
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.1
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.1
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.1
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.1
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.1
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
59°	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*1.6*
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
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: P1067944
CATALOG NUMBER: NAV-SA1D-730-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	318°	325°	335°	345°	355°	360°
0°	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
2.5°	22.0	22.0	20.4	18.8	18.8	18.8	20.4	22.0	22.0	22.0
5°	20.4	20.4	18.8	18.8	18.8	18.8	20.4	23.5	25.1	25.1
7.5°	20.4	20.4	18.8	18.8	18.8	18.8	20.4	23.5	25.1	26.7
10°	18.8	18.8	18.8	18.8	17.3	18.8	20.4	23.5	28.2	28.2
12.5°	18.8	18.8	18.8	18.8	17.3	18.8	22.0	25.1	29.8	31.4
15°	18.8	18.8	18.8	17.3	17.3	18.8	22.0	26.7	31.4	34.5
17.5°	17.3	18.8	18.8	17.3	17.3	18.8	22.0	26.7	34.5	39.2
20°	15.7	17.3	18.8	17.3	17.3	17.3	22.0	26.7	36.1	42.4
22.5°	14.1	15.7	17.3	17.3	15.7	17.3	22.0	28.2	39.2	47.1
25°	12.6	14.1	14.1	15.7	15.7	17.3	22.0	28.2	40.8	53.3
27.5°	9.4	11.0	12.6	14.1	14.1	17.3	22.0	29.8	43.9	65.9
30°	7.8	9.4	11.0	12.6	14.1	17.3	22.0	29.8	47.1	83.2
32.5°	7.8	9.4	11.0	12.6	14.1	15.7	22.0	31.4	51.8	103.5
35°	6.3	7.8	9.4	12.6	12.6	15.7	22.0	31.4	56.5	134.9
37.5°	6.3	7.8	9.4	12.6	12.6	15.7	22.0	31.4	69.0	150.6
40°	4.7	6.3	7.8	12.6	12.6	15.7	23.5	32.9	70.6	152.2
42.5°	4.7	6.3	7.8	11.0	12.6	15.7	23.5	32.9	65.9	156.9
45°	4.7	6.3	7.8	12.6	14.1	17.3	23.5	34.5	64.3	178.9
47.5°	4.7	6.3	7.8	12.6	15.7	17.3	23.5	34.5	65.9	255.7
50°	4.7	6.3	7.8	12.6	17.3	17.3	23.5	34.5	72.2	411.1
52.5°	3.1	4.7	6.3	11.0	14.1	18.8	25.1	32.9	76.9	549.1
55°	3.1	3.1	4.7	9.4	12.6	20.4	26.7	32.9	89.4	583.6
57.5°	3.1	3.1	4.7	7.8	11.0	22.0	28.2	32.9	103.5	566.4
59°	*3.1*	*3.1*	*3.1*	*7.8*	*9.4*	*22.0*	*28.2*	*34.5*	*105.1*	*536.6*
60°	3.1	3.1	3.1	6.3	9.4	22.0	29.8	36.1	106.7	502.1
62.5°	1.6	1.6	1.6	6.3	7.8	22.0	32.9	43.9	109.8	387.5
65°	3.1	3.1	1.6	4.7	7.8	18.8	37.7	47.1	111.4	301.2
67.5°	3.1	3.1	3.1	6.3	7.8	18.8	39.2	48.6	111.4	238.5
70°	3.1	3.1	3.1	6.3	9.4	18.8	39.2	50.2	109.8	194.5
72.5°	3.1	3.1	3.1	6.3	9.4	17.3	36.1	51.8	105.1	164.7
75°	3.1	3.1	3.1	4.7	7.8	15.7	34.5	56.5	95.7	139.6
77.5°	3.1	3.1	3.1	3.1	6.3	12.6	31.4	62.8	84.7	113.0
80°	4.7	3.1	3.1	3.1	4.7	11.0	29.8	61.2	70.6	73.7
82.5°	4.7	3.1	3.1	1.6	3.1	7.8	23.5	47.1	36.1	32.9
85°	3.1	3.1	3.1	1.6	1.6	4.7	11.0	14.1	11.0	7.8
87.5°	3.1	3.1	3.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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: SP1-2407-184-4

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

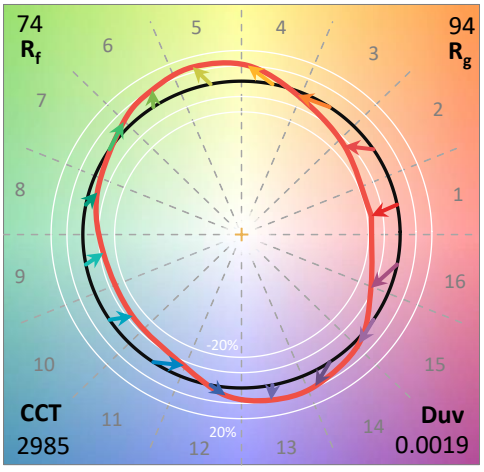
Test Information

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
CIE u':	0.2504
CIE v':	0.5243
Duv:	0.0019
CIE x:	0.4408
CIE y:	0.4101
CIE z:	0.1491
Peak Wavelength (nm):	595
Dominant Wavelength (nm):	582
Purity:	55.41818
Rf:	73.8
Rg:	94.4

CRI (Ra):	70.8
R1:	66.3
R2:	80.6
R3:	94.5
R4:	68.2
R5:	66.5
R6:	74.7
R7:	76.2
R8:	39.6
R9:	-43.2
R10:	57.6
R11:	64.8
R12:	53.5
R13:	68.7
R14:	97.0
R15:	56.4



Test Conditions

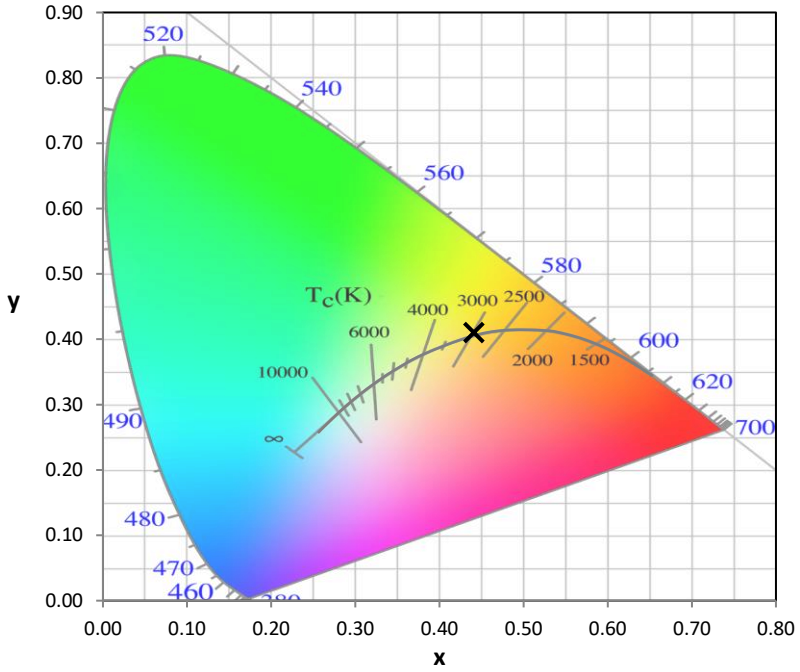
Stabilization Time:	36M
Operation Time:	1H 36M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-4

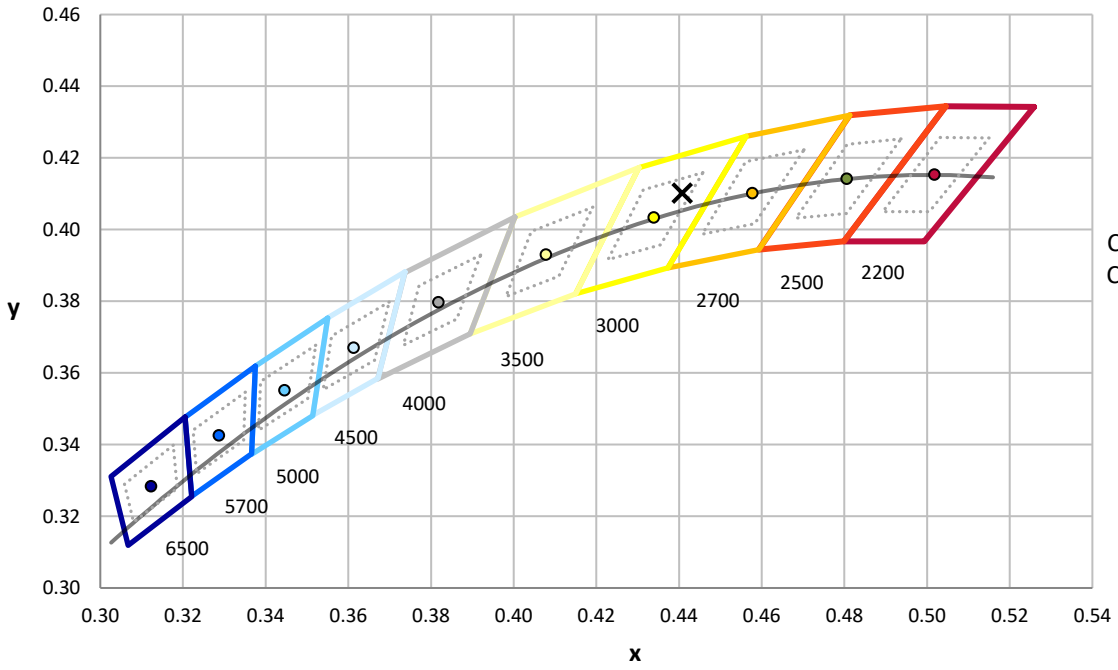
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-4

CIE 1931 Chromaticity Diagram



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

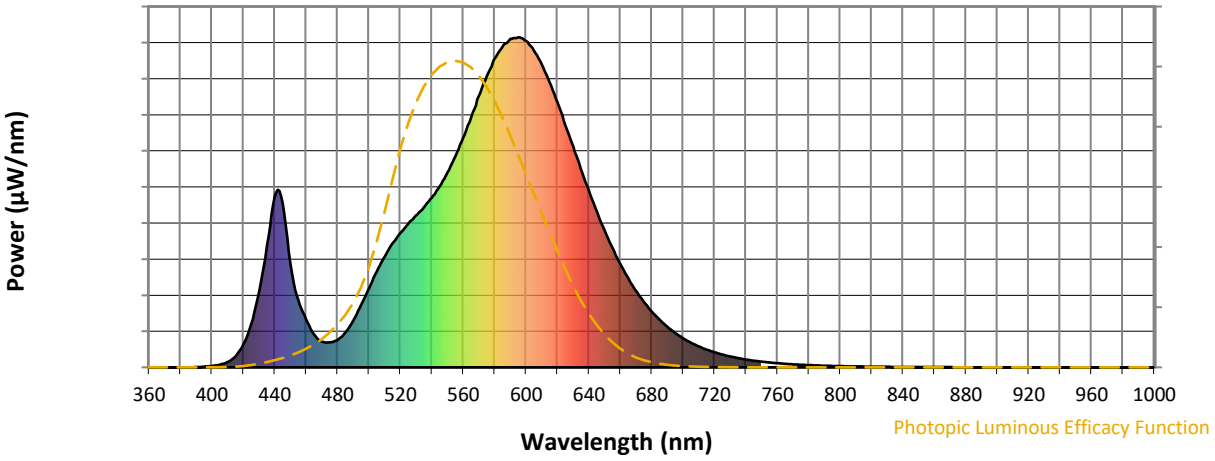


CCT = 2985K
CIE x = 0.4408
CIE y = 0.4101
Duv = 0.0019

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

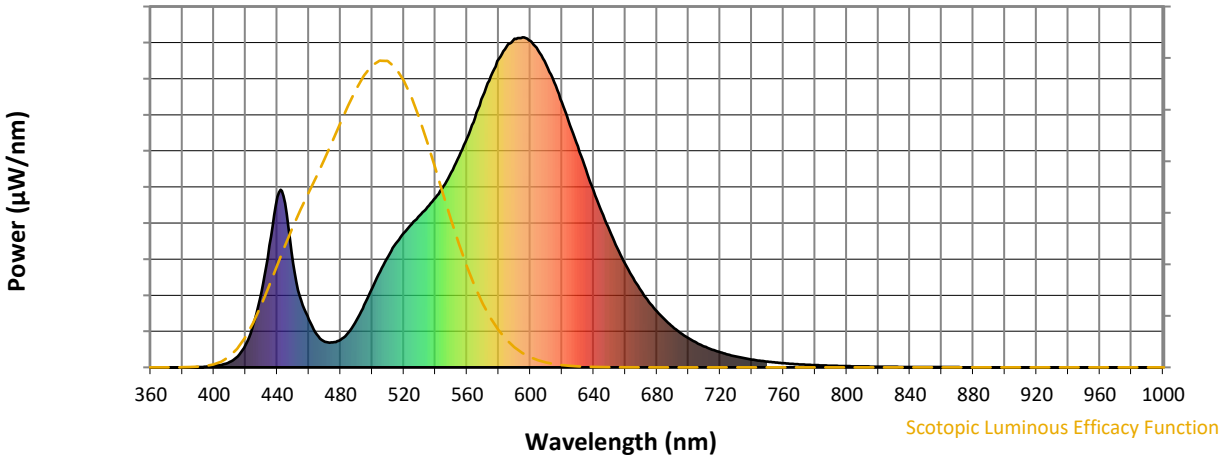


Photopic Lumens: NR

λ (nm)	Power W^/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	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

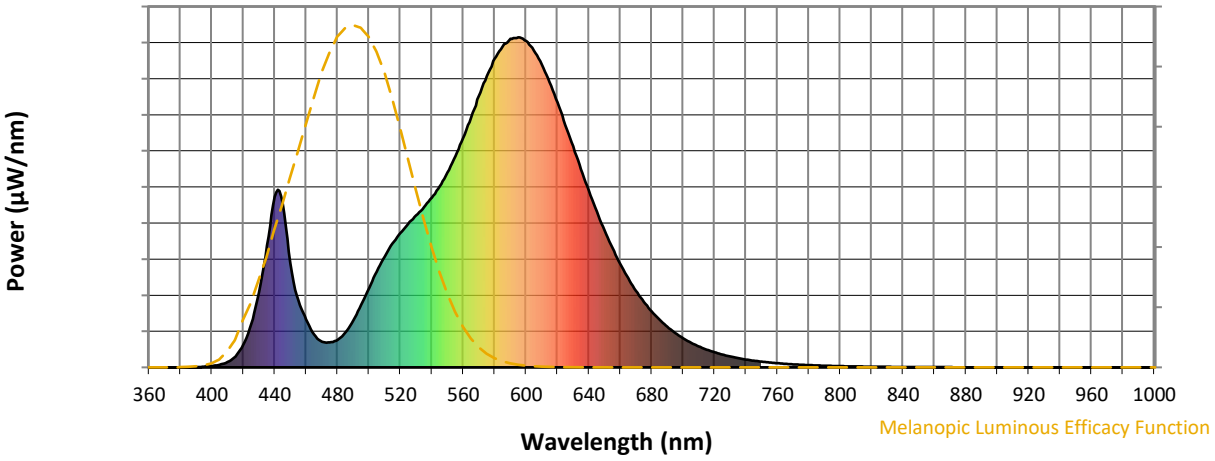


Scotopic Lumens: NR **S/P: 1.19**

λ (nm)	Power 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	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

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.13**

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	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			

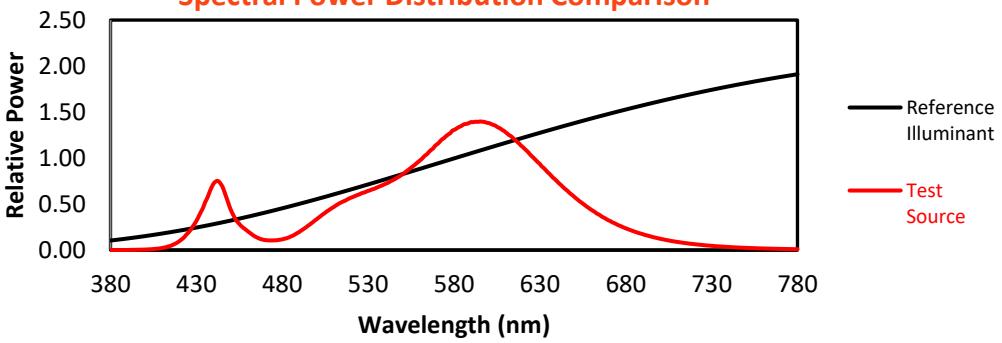
REPORT NUMBER: SP1-2407-184-4

TM-30-18

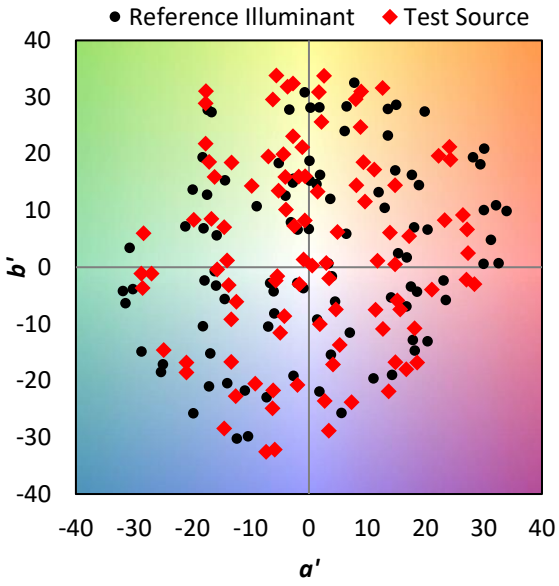
Summary

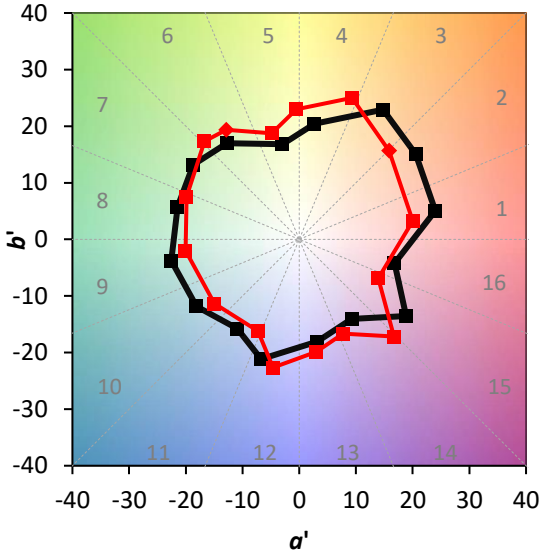
R_f = 73.8
R_g = 94.4
CIE R_a = 70.8
R_9 = -43.2

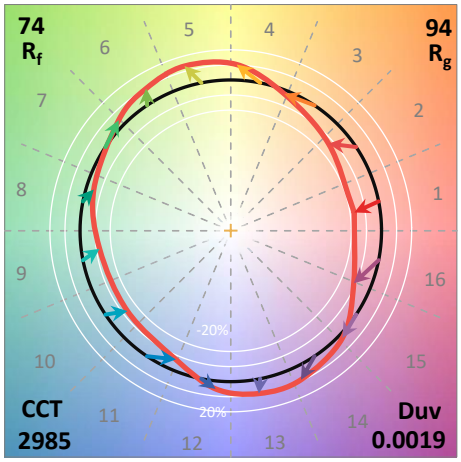
Spectral Power Distribution Comparison

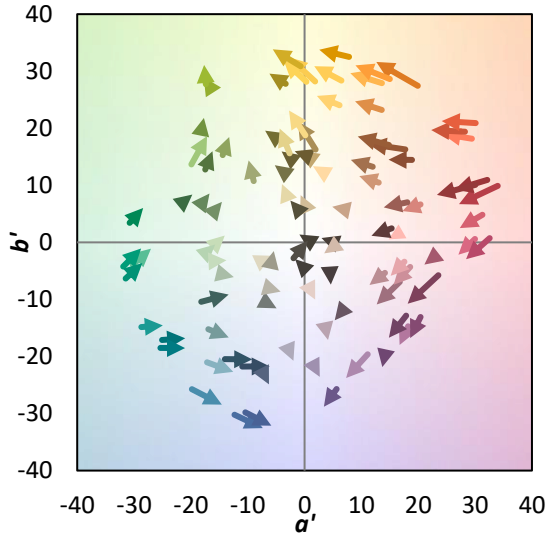


Color Vector Graphics







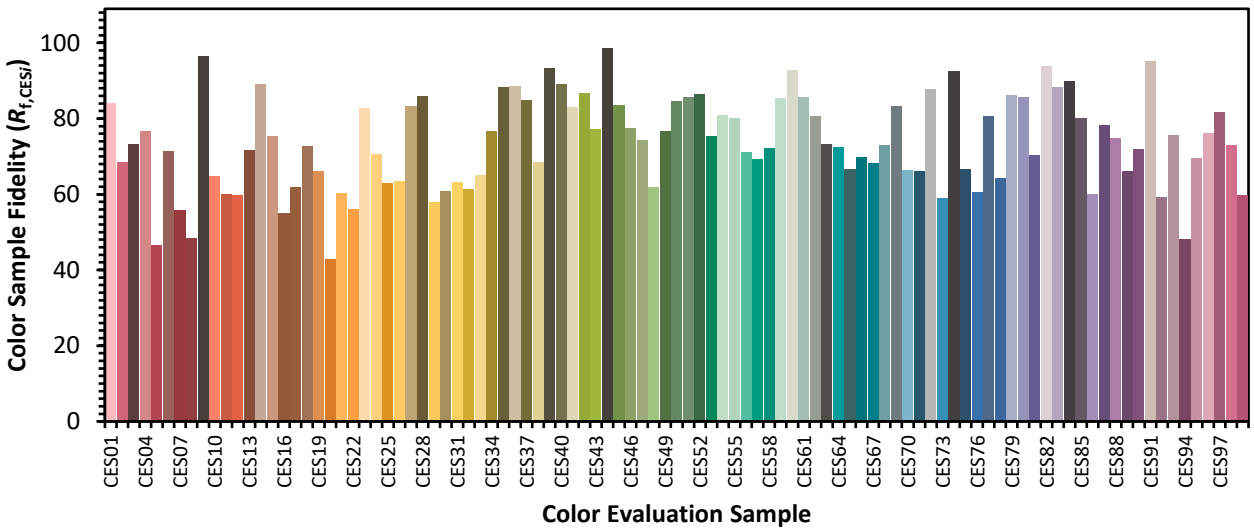


REPORT NUMBER: SP1-2407-184-4

TM-30-18

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	



REPORT NUMBER: SP1-2407-184-4

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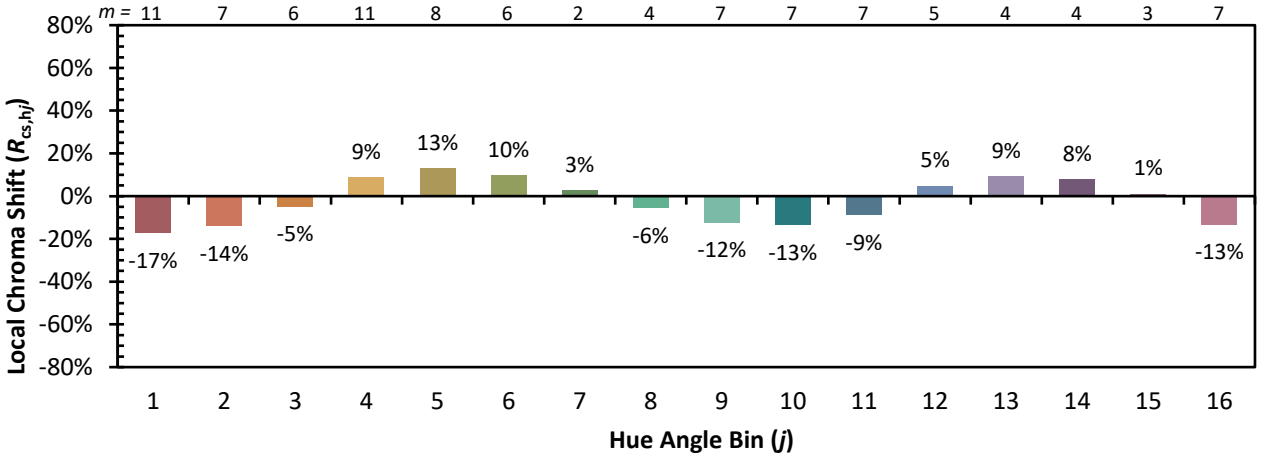
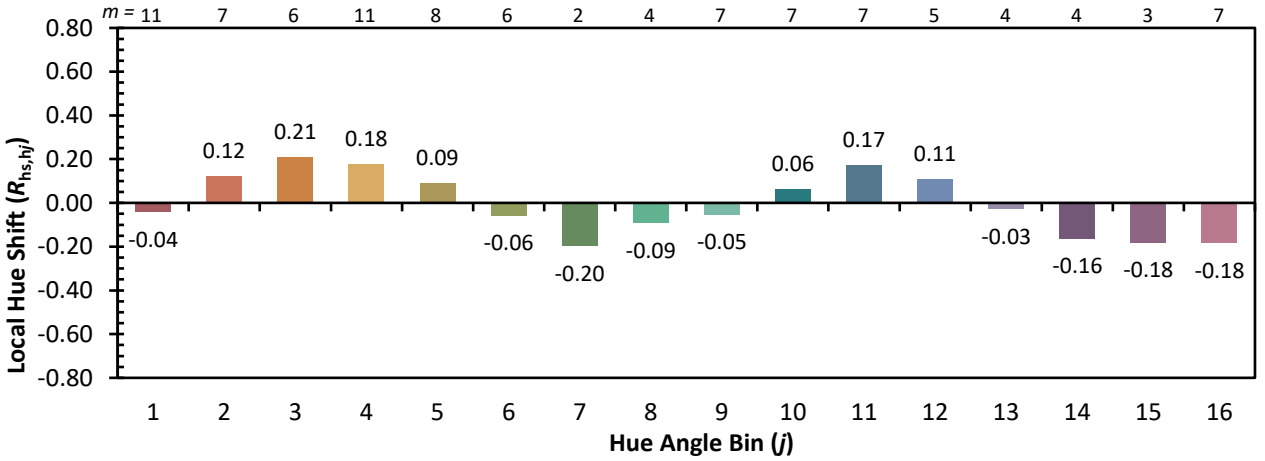
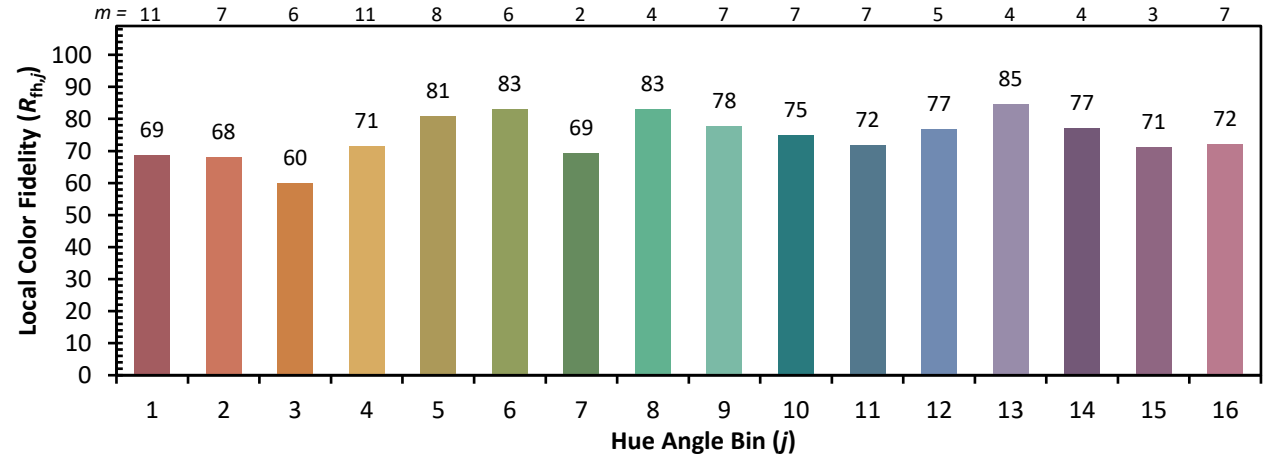
Color Rendition by Hue-Angle Bin







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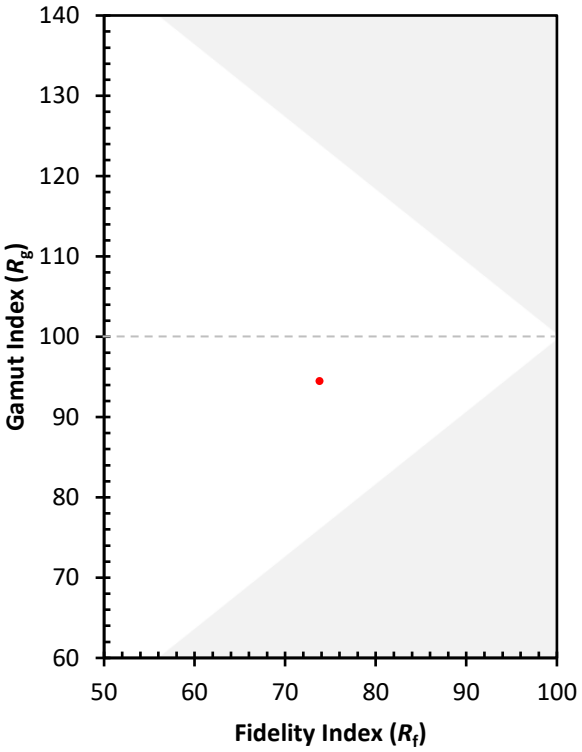
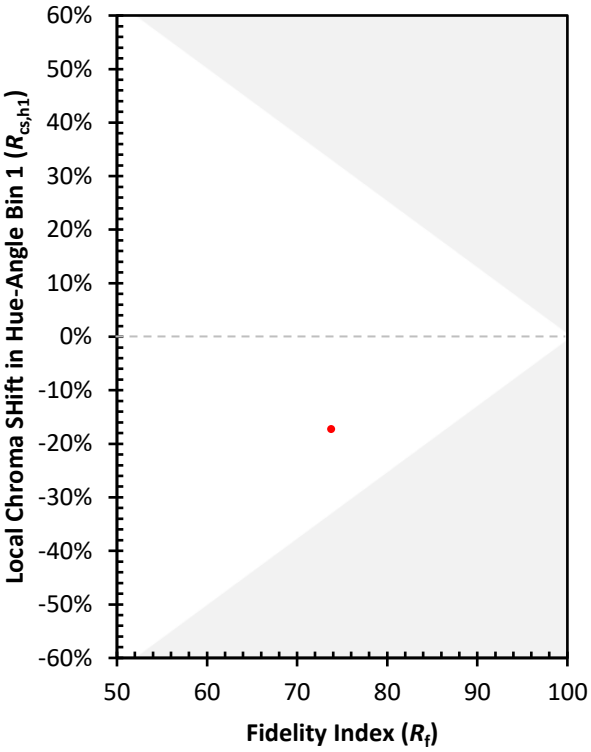
Measure Comparisons





(END OF REPORT)