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

Scaled data based on original data using

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: P1066742

Luminaire Tested: **NVN-SA1B-730-U-LBC**

Issue Date: 08/07/2025

Report Generated By 670347003

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1066742
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	08/07/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	NVN-SA1B-730-U-LBC
Description:	Navion AREA AND ROADWAY LUMINAIRE 800mA 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:	3642.4 lumens
Efficiency:	N/A
Efficacy:	96.1 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B0 - U0 - G1

Input Watts (W):	37.9
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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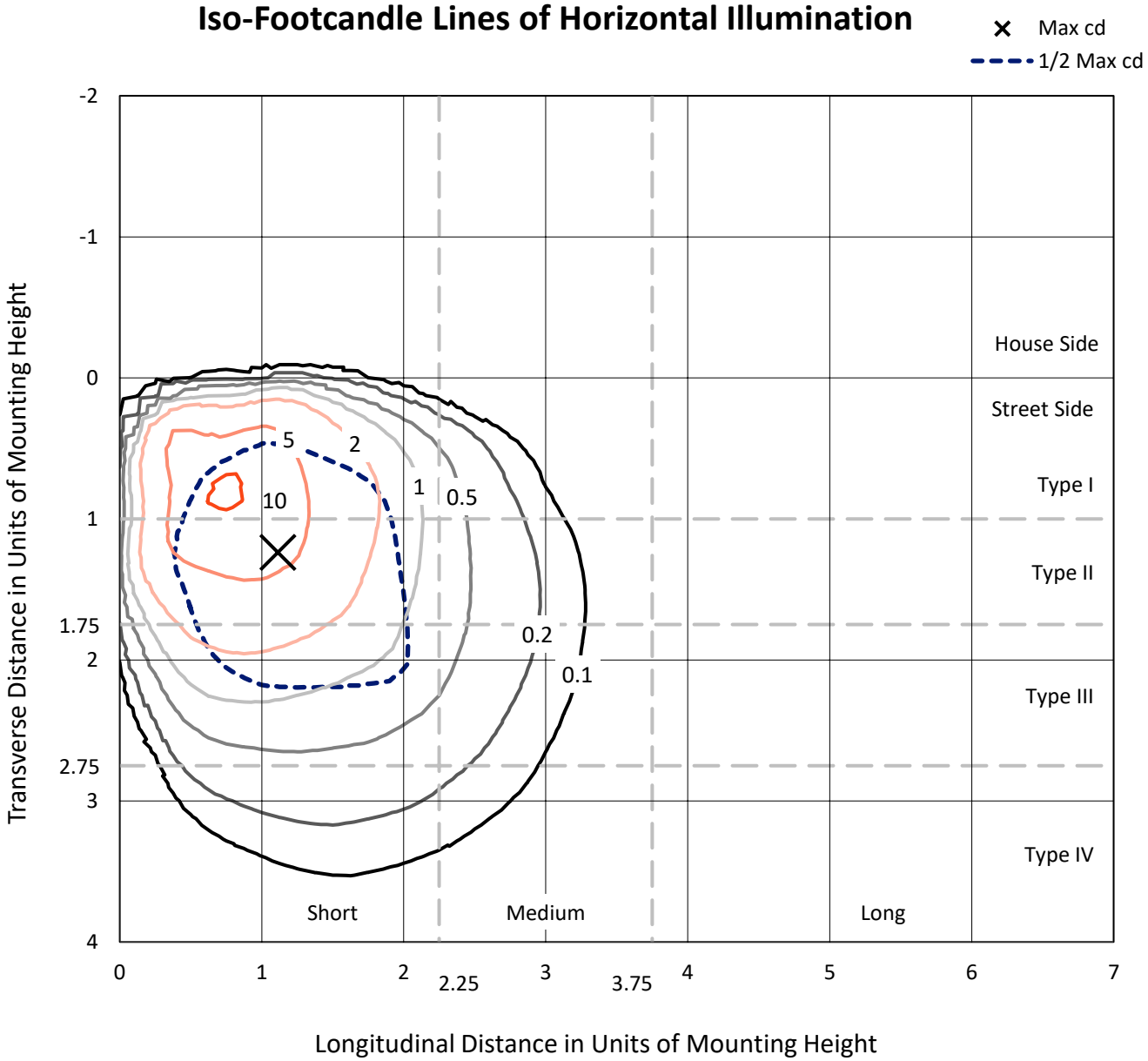
Iso-Footcandle Lines of Horizontal Illumination



Based on 15 foot mounting height. Maximum calculated value = 10.8 fc
Type III - Short - N/A

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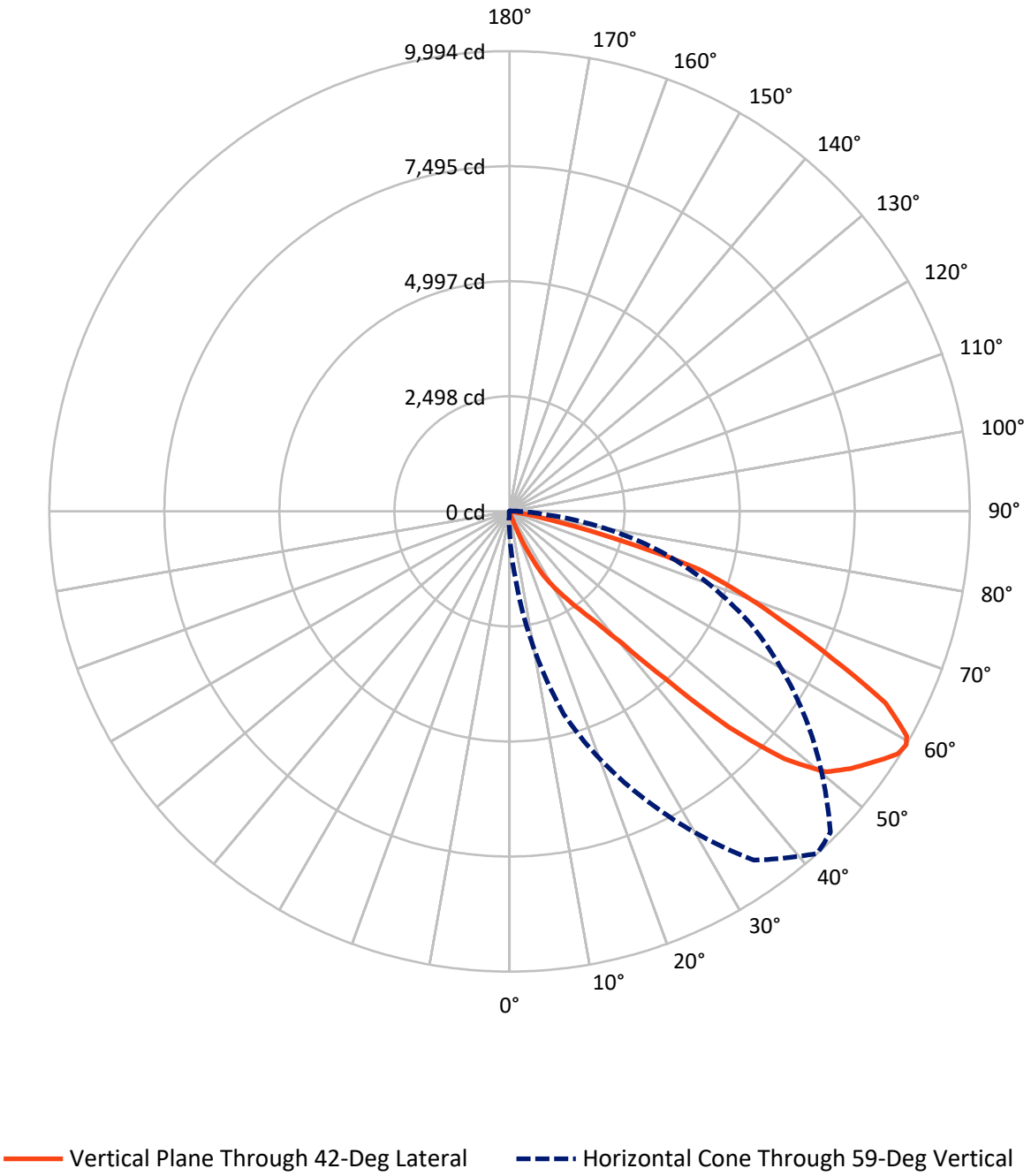
Luminous Intensity Polar Plot



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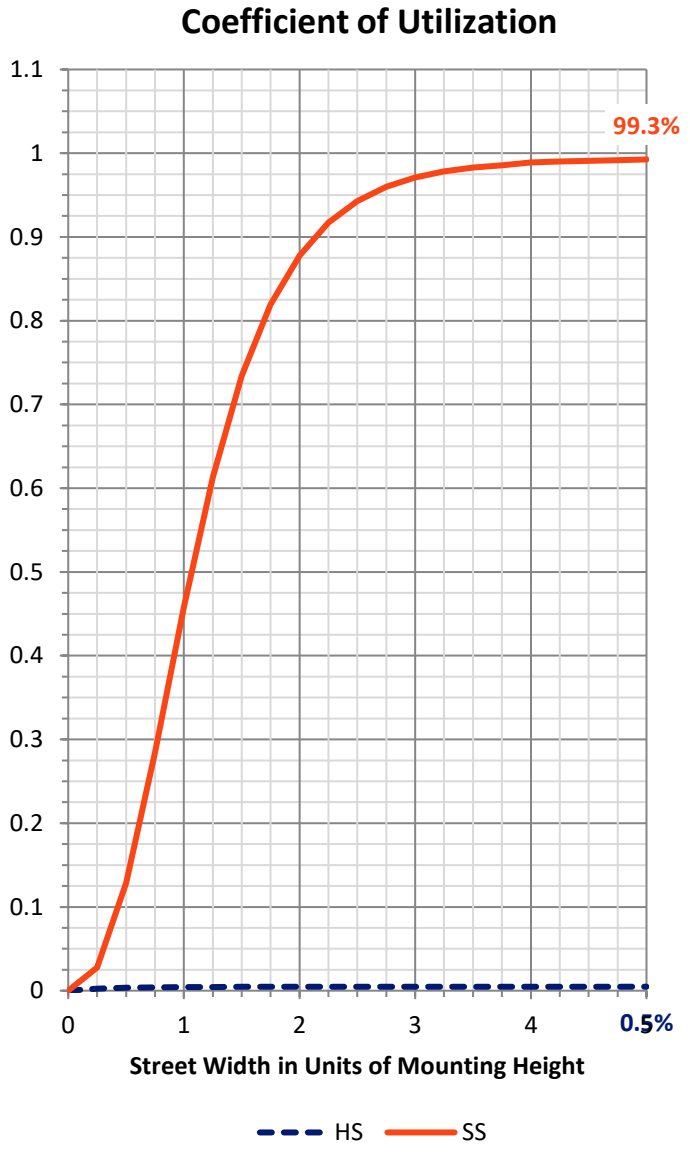
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17.5	0.0	17.5
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	3624.9	0.0	3624.9
	% Fixture	99.5	0.0	99.5
Total	Lumens	3642.4	0.0	3642.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.0
10°-20°	5.3	0.1
20°-30°	67.9	1.9
30°-40°	229.1	6.3
40°-50°	691.9	19.0
50°-60°	1221.3	33.5
60°-70°	1075.4	29.5
70°-80°	342.3	9.4
80°-90°	8.2	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°	3642.4	100.0
0°-180°	3642.4	100.0



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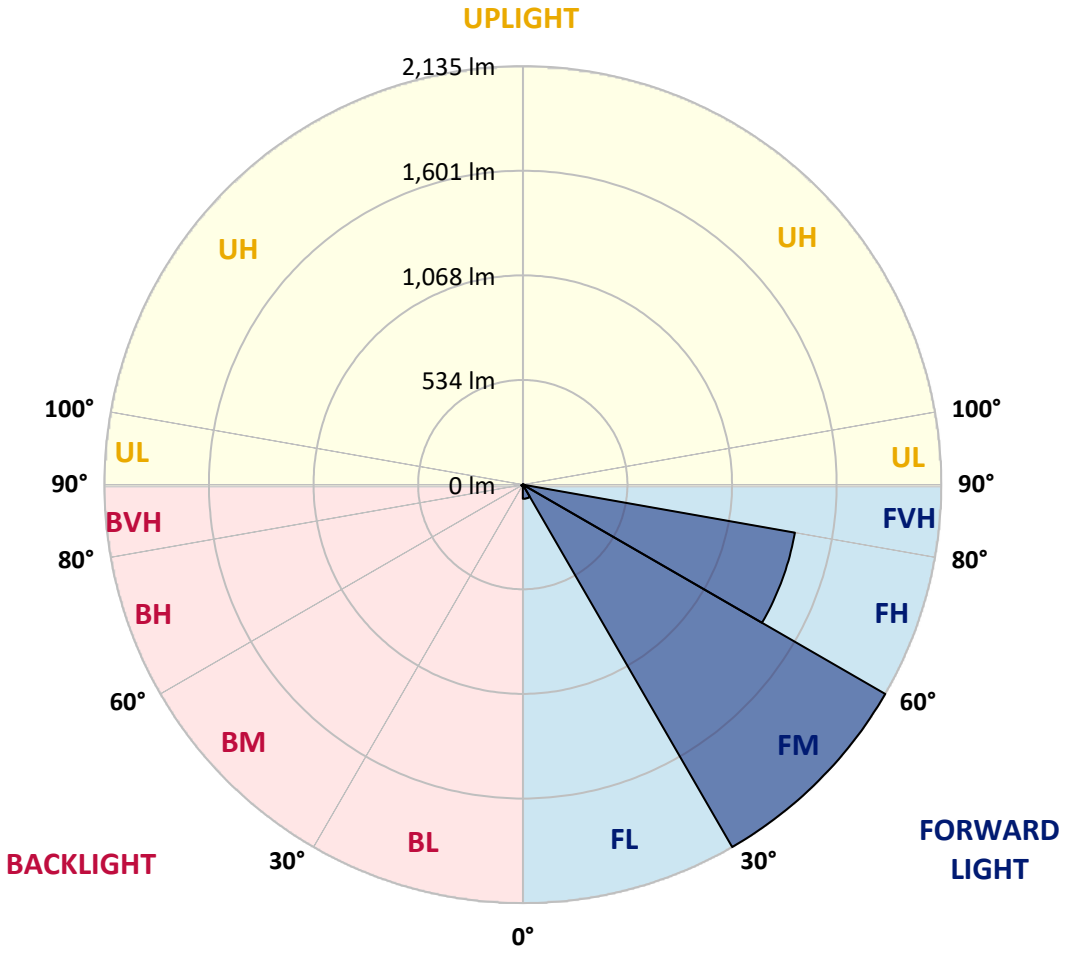
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	72.4	2.0			
FM	(30°-60°)	2135.1	58.6			
FH	(60°-80°)	1409.7	38.7			G1/1800
FVH	(80°-90°)	7.8	0.2			G0/10
BL	(0°-30°)	2.0	0.1	B0/110		
BM	(30°-60°)	7.2	0.2	B0/220		
BH	(60°-80°)	8.0	0.2	B0/110		G0/110
BVH	(80°-90°)	0.4	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-G1
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	10.3	10.3	10.3	10.3	10.3	*10.3*	10.3	10.3	10.3	10.3	10.3
2.5°	16.0	16.0	14.8	13.7	12.6	*11.4*	11.4	11.4	10.3	10.3	9.1
5°	18.3	18.3	17.1	16.0	16.0	*14.8*	14.8	13.7	12.6	12.6	11.4
7.5°	19.4	19.4	19.4	19.4	18.3	*18.3*	18.3	17.1	16.0	14.8	13.7
10°	20.6	21.7	22.8	22.8	22.8	*22.8*	22.8	21.7	19.4	18.3	16.0
12.5°	22.8	24.0	26.3	28.6	28.6	*29.7*	28.6	27.4	25.1	21.7	18.3
15°	25.1	27.4	30.8	35.4	40.0	*41.1*	41.1	37.7	33.1	26.3	21.7
17.5°	28.6	32.0	41.1	56.0	71.9	*84.5*	84.5	75.4	52.5	34.3	25.1
20°	30.8	37.7	66.2	134.8	205.6	*258.1*	247.8	219.3	117.6	53.7	27.4
22.5°	34.3	48.0	140.5	354.0	548.2	*644.1*	621.3	471.7	263.8	95.9	33.1
25°	38.8	69.7	278.7	663.5	1018.7	*1122.6*	1107.8	880.5	480.8	161.0	42.3
27.5°	48.0	102.8	446.5	1006.1	1502.9	*1592.0*	1586.3	1289.3	768.6	259.2	54.8
30°	60.5	149.6	662.4	1367.0	1823.8	*1914.0*	1885.5	1588.6	1037.0	396.3	70.8
32.5°	75.4	209.0	857.7	1633.1	2119.6	*2238.4*	2204.1	1848.9	1252.8	512.8	105.1
35°	98.2	267.2	1050.7	1868.4	2461.1	*2611.8*	2554.7	2117.3	1439.0	644.1	126.8
37.5°	109.6	301.5	1227.7	2124.2	2844.8	*3050.4*	3007.0	2456.5	1628.5	812.0	155.3
40°	110.8	342.6	1411.5	2457.6	3387.2	*3753.8*	3676.2	3038.9	1981.4	1027.8	199.9
42.5°	114.2	404.3	1650.2	3026.4	4452.8	*4979.2*	4891.3	4110.2	2782.0	1460.7	283.2
45°	130.2	520.8	2136.7	4089.6	5915.7	*6687.7*	6586.1	5602.8	3900.0	2274.9	483.1
47.5°	186.2	783.4	2989.8	5237.3	7411.7	*8027.3*	8002.2	6779.1	4913.0	3109.7	818.8
50°	299.2	1202.6	3960.5	6202.3	8364.2	*8893.0*	8830.1	7270.1	5490.9	3679.6	1049.5
52.5°	399.7	1603.4	4570.4	6557.5	8648.6	*9279.0*	9202.4	7449.4	5642.8	3847.5	1113.5
55°	424.8	1748.4	4752.0	6667.1	8837.0	*9605.6*	9494.8	7569.3	5662.2	3727.6	1007.3
57.5°	412.3	1611.4	4634.3	6774.5	9099.7	*9941.3*	9794.0	7803.5	5727.3	3524.3	838.2
59°	*390.6*	*1442.4*	*4561.3*	*6860.2*	*9244.7*	*9993.9*	*9855.7*	*7854.9*	*5770.7*	*3431.8*	*735.5*
60°	365.4	1328.2	4504.2	6916.1	9235.6	*9911.6*	9768.9	7830.9	5787.8	3351.8	686.4
62.5°	282.1	1059.8	4421.9	6876.1	8658.8	*9161.3*	9080.2	7243.9	5536.5	3096.0	541.3
65°	219.3	810.8	4120.4	6132.7	7368.4	*7706.4*	7681.3	6133.8	4659.5	2668.9	390.6
67.5°	173.6	591.6	3484.3	4966.7	5928.3	*6409.1*	6390.8	4979.2	3536.9	2039.7	280.9
70°	141.6	421.4	2389.1	3744.7	4741.7	*5347.0*	5320.7	4007.4	2620.9	1293.9	204.4
72.5°	119.9	269.5	1449.2	2823.1	3957.1	*4303.2*	4226.6	3233.1	1906.0	704.6	162.2
75°	101.6	165.6	718.3	1759.9	2357.1	*2354.9*	2278.3	1711.9	1023.3	344.9	129.0
77.5°	82.2	116.5	282.1	483.1	743.5	*920.5*	905.6	606.4	306.1	100.5	79.9
80°	53.7	54.8	75.4	132.5	204.4	*226.1*	257.0	185.0	89.1	48.0	33.1
82.5°	24.0	26.3	34.3	43.4	43.4	*40.0*	35.4	26.3	19.4	16.0	8.0
85°	5.7	8.0	5.7	6.9	5.7	*4.6*	4.6	2.3	0.0	0.0	0.0
87.5°	1.1	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°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
2.5°	9.1	9.1	9.1	8.0	8.0	8.0	6.9	6.9	6.9	5.7	5.7
5°	11.4	10.3	9.1	9.1	8.0	8.0	6.9	5.7	5.7	5.7	4.6
7.5°	12.6	11.4	10.3	9.1	8.0	6.9	6.9	5.7	4.6	4.6	4.6
10°	14.8	13.7	11.4	9.1	8.0	6.9	5.7	5.7	4.6	3.4	3.4
12.5°	17.1	14.8	12.6	10.3	8.0	6.9	5.7	5.7	4.6	3.4	2.3
15°	19.4	17.1	13.7	10.3	8.0	6.9	5.7	5.7	3.4	2.3	1.1
17.5°	21.7	18.3	13.7	11.4	8.0	6.9	5.7	4.6	2.3	1.1	0.0
20°	22.8	19.4	14.8	11.4	8.0	6.9	5.7	3.4	1.1	0.0	0.0
22.5°	25.1	21.7	16.0	11.4	8.0	5.7	3.4	1.1	0.0	0.0	0.0
25°	29.7	22.8	16.0	11.4	8.0	5.7	2.3	0.0	0.0	0.0	0.0
27.5°	33.1	25.1	16.0	11.4	8.0	4.6	1.1	0.0	0.0	0.0	0.0
30°	38.8	27.4	17.1	11.4	8.0	3.4	1.1	0.0	0.0	0.0	0.0
32.5°	48.0	29.7	17.1	11.4	6.9	3.4	0.0	0.0	0.0	0.0	0.0
35°	58.2	34.3	17.1	11.4	6.9	3.4	0.0	0.0	0.0	0.0	0.0
37.5°	59.4	36.5	17.1	11.4	6.9	2.3	0.0	0.0	0.0	0.0	0.0
40°	61.7	34.3	18.3	11.4	6.9	2.3	0.0	0.0	0.0	0.0	0.0
42.5°	70.8	32.0	19.4	11.4	6.9	2.3	0.0	0.0	0.0	0.0	0.0
45°	105.1	33.1	19.4	12.6	6.9	3.4	0.0	0.0	0.0	0.0	0.0
47.5°	182.7	34.3	18.3	12.6	6.9	3.4	0.0	0.0	0.0	0.0	0.0
50°	234.1	40.0	18.3	13.7	8.0	2.3	0.0	0.0	0.0	0.0	0.0
52.5°	249.0	46.8	18.3	14.8	10.3	1.1	0.0	0.0	0.0	0.0	0.0
55°	242.1	54.8	19.4	16.0	12.6	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	223.8	59.4	20.6	17.1	13.7	0.0	0.0	0.0	0.0	0.0	0.0
59°	*204.4*	*62.8*	*24.0*	*18.3*	*13.7*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*
60°	188.4	66.2	25.1	19.4	13.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	151.9	70.8	27.4	22.8	11.4	0.0	0.0	0.0	0.0	0.0	0.0
65°	132.5	74.2	28.6	25.1	10.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	121.1	76.5	30.8	26.3	9.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	111.9	75.4	33.1	25.1	8.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	101.6	71.9	40.0	22.8	6.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	91.4	65.1	43.4	20.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	66.2	54.8	40.0	18.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	28.6	29.7	28.6	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.7	6.9	5.7	3.4	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°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
2.5°	5.7	5.7	5.7	5.7	6.9	6.9	9.1	11.4	13.7	14.8	14.8
5°	4.6	4.6	4.6	4.6	4.6	5.7	6.9	9.1	12.6	13.7	13.7
7.5°	3.4	3.4	3.4	3.4	3.4	3.4	5.7	8.0	11.4	12.6	13.7
10°	3.4	2.3	2.3	1.1	1.1	2.3	3.4	6.9	10.3	11.4	12.6
12.5°	2.3	1.1	1.1	0.0	0.0	1.1	2.3	5.7	9.1	10.3	11.4
15°	1.1	0.0	0.0	0.0	0.0	0.0	1.1	4.6	8.0	9.1	11.4
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	6.9	9.1	10.3
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	5.7	8.0	9.1
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	4.6	6.9	8.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	4.6	5.7
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	3.4	4.6
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	3.4	4.6
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.3	3.4
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.3	3.4
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.3	2.3
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.3
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.3
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.3
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.3
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.3
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
59°	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*1.1*
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
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: P1066742
CATALOG NUMBER: NVN-SA1B-730-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	318°	325°	335°	345°	355°	360°
0°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
2.5°	16.0	16.0	14.8	13.7	13.7	13.7	14.8	16.0	16.0	16.0
5°	14.8	14.8	13.7	13.7	13.7	13.7	14.8	17.1	18.3	18.3
7.5°	14.8	14.8	13.7	13.7	13.7	13.7	14.8	17.1	18.3	19.4
10°	13.7	13.7	13.7	13.7	12.6	13.7	14.8	17.1	20.6	20.6
12.5°	13.7	13.7	13.7	13.7	12.6	13.7	16.0	18.3	21.7	22.8
15°	13.7	13.7	13.7	12.6	12.6	13.7	16.0	19.4	22.8	25.1
17.5°	12.6	13.7	13.7	12.6	12.6	13.7	16.0	19.4	25.1	28.6
20°	11.4	12.6	13.7	12.6	12.6	12.6	16.0	19.4	26.3	30.8
22.5°	10.3	11.4	12.6	12.6	11.4	12.6	16.0	20.6	28.6	34.3
25°	9.1	10.3	10.3	11.4	11.4	12.6	16.0	20.6	29.7	38.8
27.5°	6.9	8.0	9.1	10.3	10.3	12.6	16.0	21.7	32.0	48.0
30°	5.7	6.9	8.0	9.1	10.3	12.6	16.0	21.7	34.3	60.5
32.5°	5.7	6.9	8.0	9.1	10.3	11.4	16.0	22.8	37.7	75.4
35°	4.6	5.7	6.9	9.1	9.1	11.4	16.0	22.8	41.1	98.2
37.5°	4.6	5.7	6.9	9.1	9.1	11.4	16.0	22.8	50.2	109.6
40°	3.4	4.6	5.7	9.1	9.1	11.4	17.1	24.0	51.4	110.8
42.5°	3.4	4.6	5.7	8.0	9.1	11.4	17.1	24.0	48.0	114.2
45°	3.4	4.6	5.7	9.1	10.3	12.6	17.1	25.1	46.8	130.2
47.5°	3.4	4.6	5.7	9.1	11.4	12.6	17.1	25.1	48.0	186.2
50°	3.4	4.6	5.7	9.1	12.6	12.6	17.1	25.1	52.5	299.2
52.5°	2.3	3.4	4.6	8.0	10.3	13.7	18.3	24.0	56.0	399.7
55°	2.3	2.3	3.4	6.9	9.1	14.8	19.4	24.0	65.1	424.8
57.5°	2.3	2.3	3.4	5.7	8.0	16.0	20.6	24.0	75.4	412.3
59°	*2.3*	*2.3*	*2.3*	*5.7*	*6.9*	*16.0*	*20.6*	*25.1*	*76.5*	*390.6*
60°	2.3	2.3	2.3	4.6	6.9	16.0	21.7	26.3	77.7	365.4
62.5°	1.1	1.1	1.1	4.6	5.7	16.0	24.0	32.0	79.9	282.1
65°	2.3	2.3	1.1	3.4	5.7	13.7	27.4	34.3	81.1	219.3
67.5°	2.3	2.3	2.3	4.6	5.7	13.7	28.6	35.4	81.1	173.6
70°	2.3	2.3	2.3	4.6	6.9	13.7	28.6	36.5	79.9	141.6
72.5°	2.3	2.3	2.3	4.6	6.9	12.6	26.3	37.7	76.5	119.9
75°	2.3	2.3	2.3	3.4	5.7	11.4	25.1	41.1	69.7	101.6
77.5°	2.3	2.3	2.3	2.3	4.6	9.1	22.8	45.7	61.7	82.2
80°	3.4	2.3	2.3	2.3	3.4	8.0	21.7	44.5	51.4	53.7
82.5°	3.4	2.3	2.3	1.1	2.3	5.7	17.1	34.3	26.3	24.0
85°	2.3	2.3	2.3	1.1	1.1	3.4	8.0	10.3	8.0	5.7
87.5°	2.3	2.3	2.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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

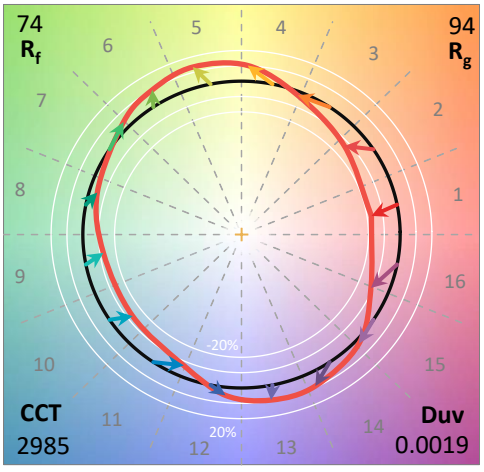
Test Information

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

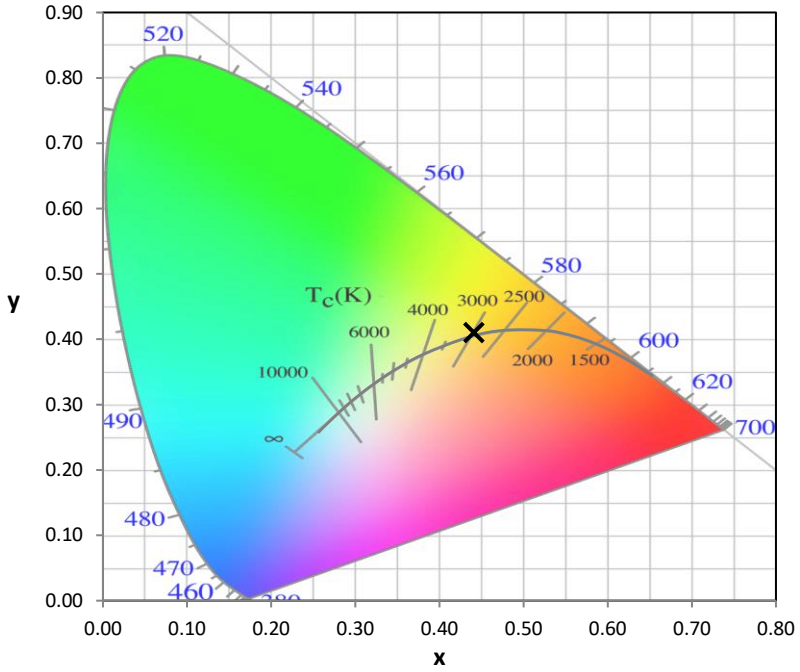
Stabilization Time:	36M
Operation Time:	1H 36M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-4

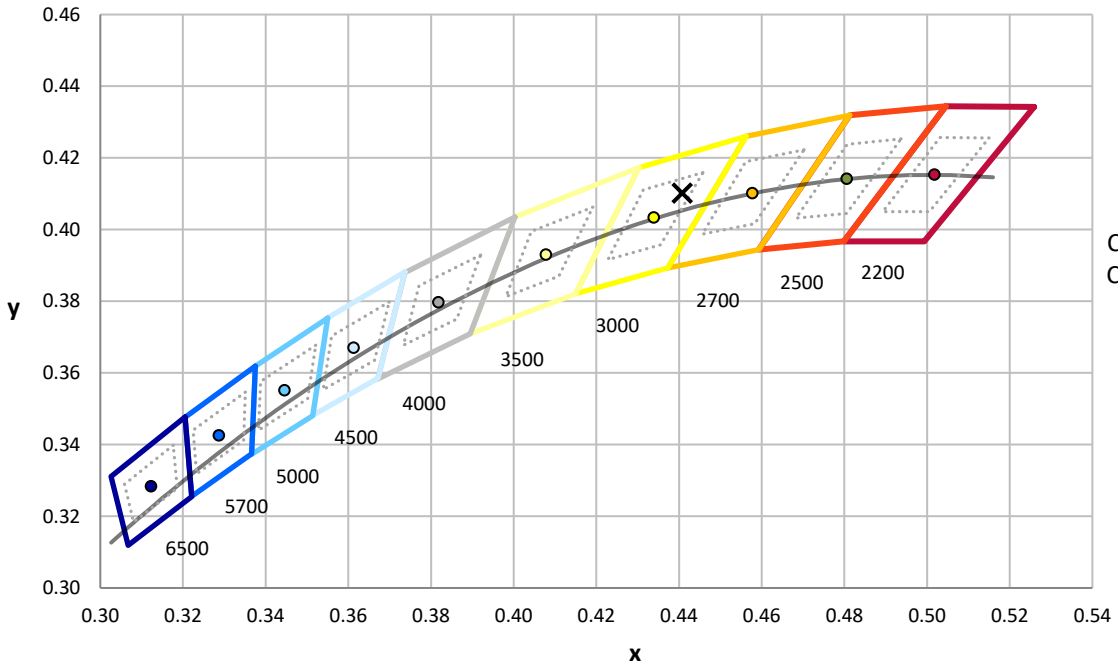
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

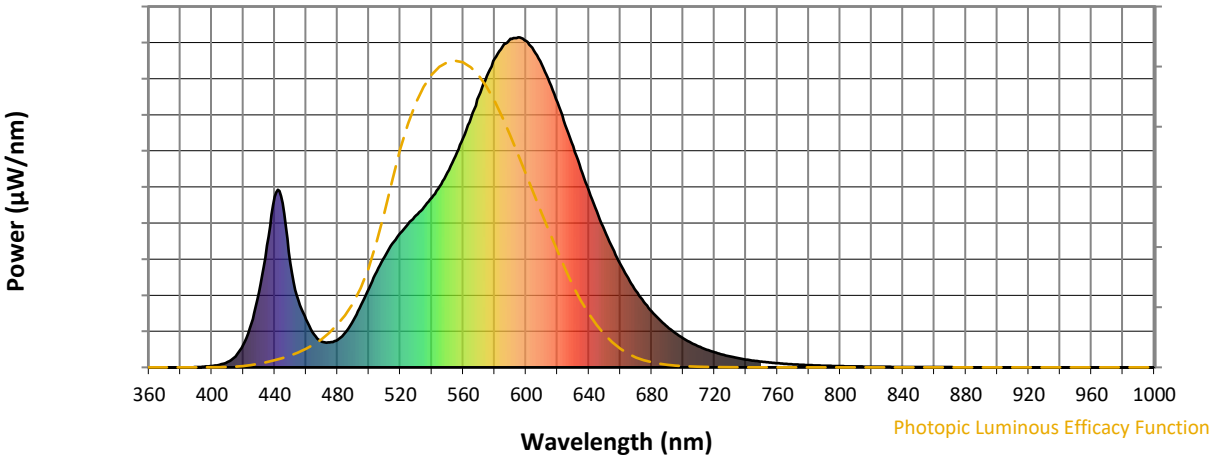


CCT = 2985K
CIE x = 0.4408
CIE y = 0.4101
Duv = 0.0019

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

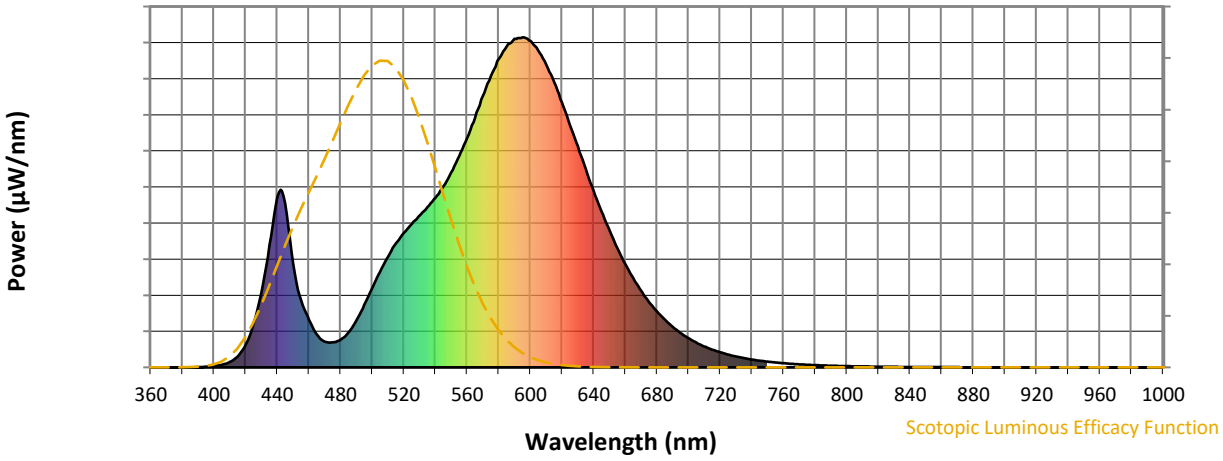


Photopic Lumens: NR

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

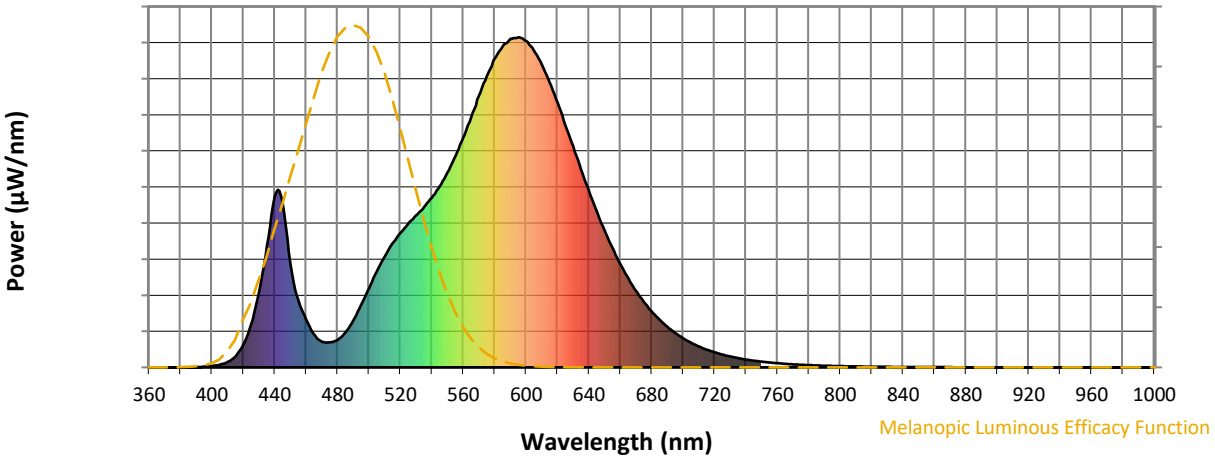


Scotopic Lumens: NR **S/P: 1.19**

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			

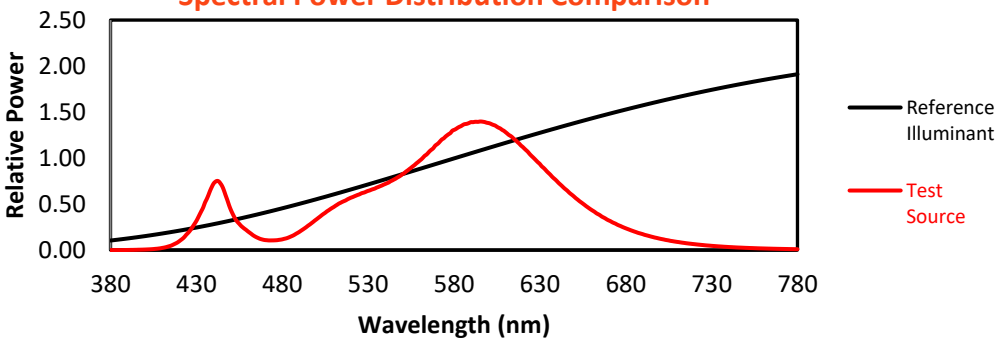
REPORT NUMBER: SP1-2407-184-4

TM-30-18

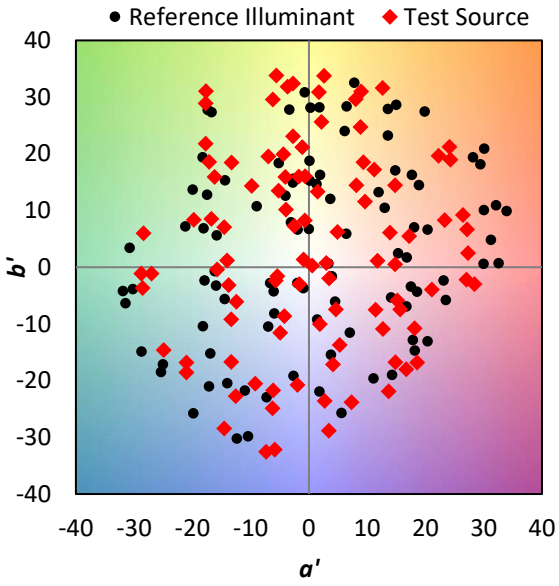
Summary

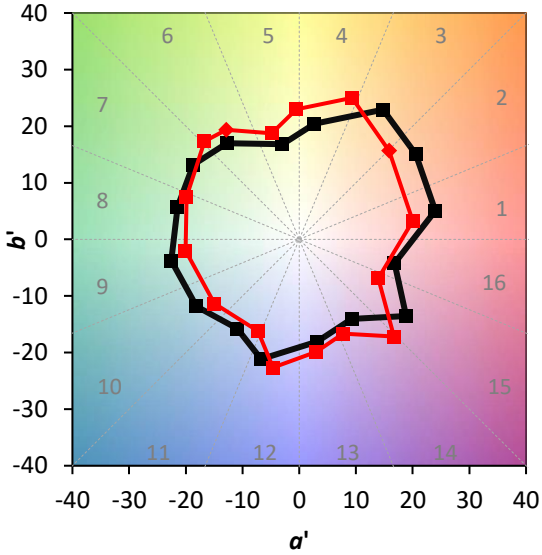
R_f = 73.8
R_g = 94.4
CIE R_a = 70.8
R_9 = -43.2

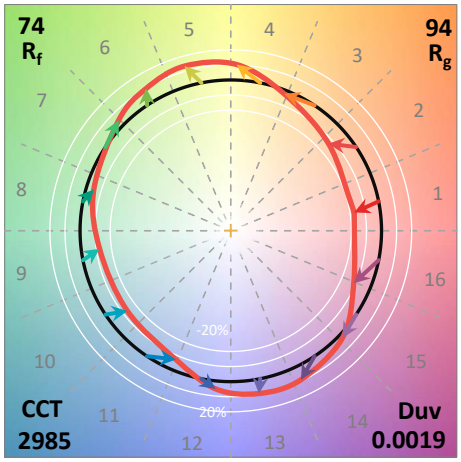
Spectral Power Distribution Comparison

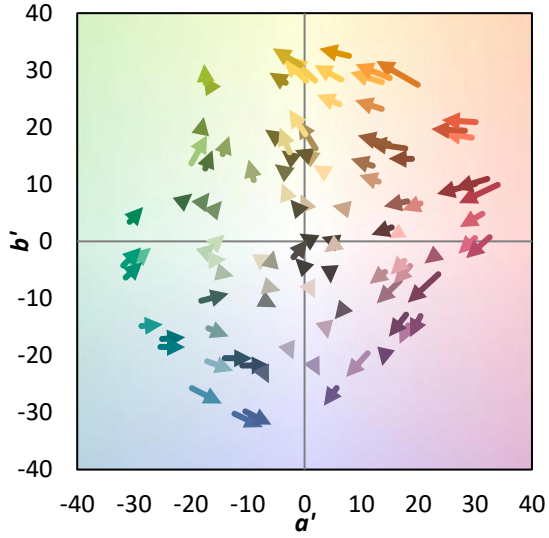


Color Vector Graphics







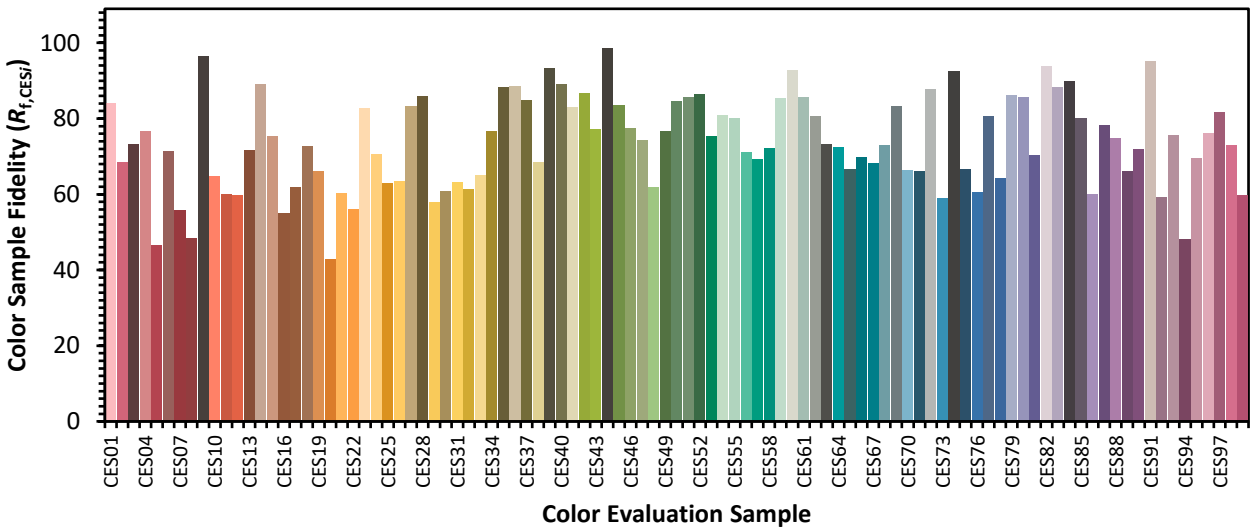


REPORT NUMBER: SP1-2407-184-4

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	



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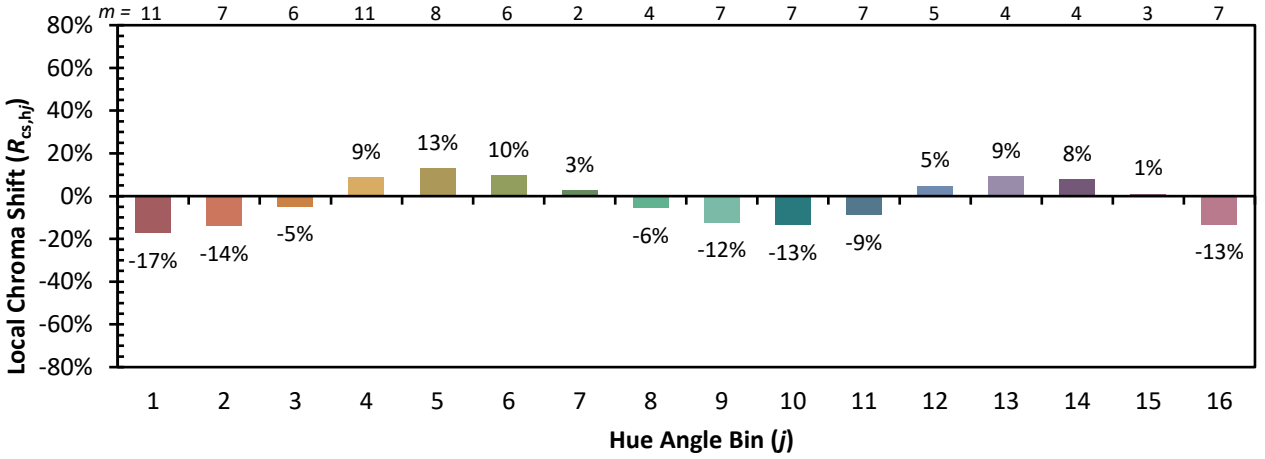
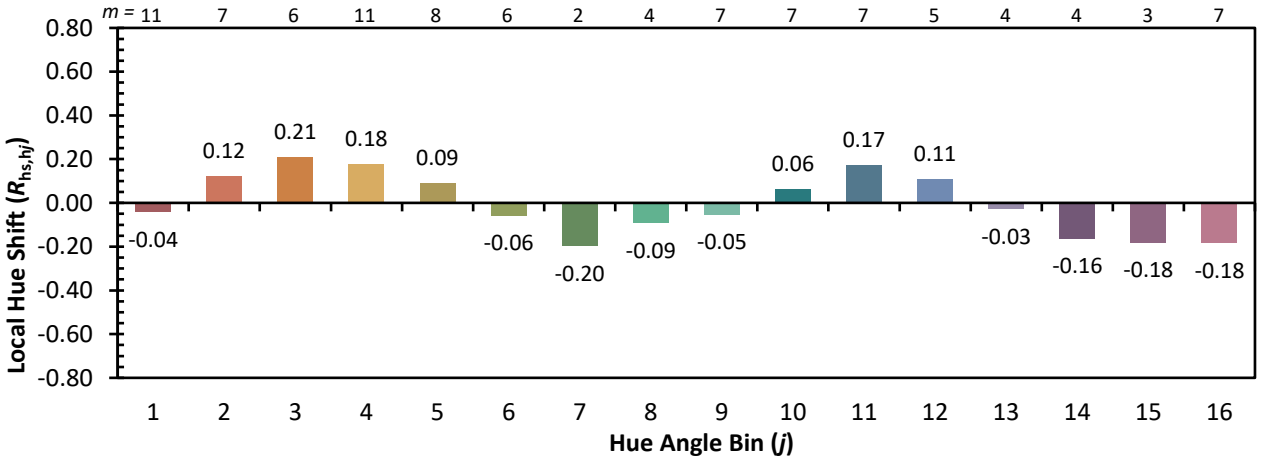
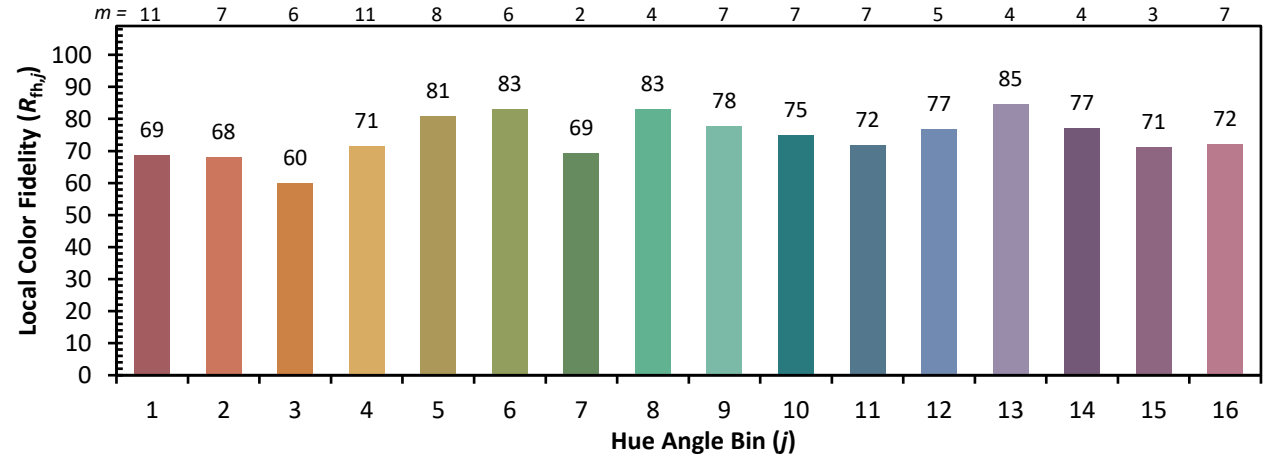
Color Rendition by Hue-Angle Bin







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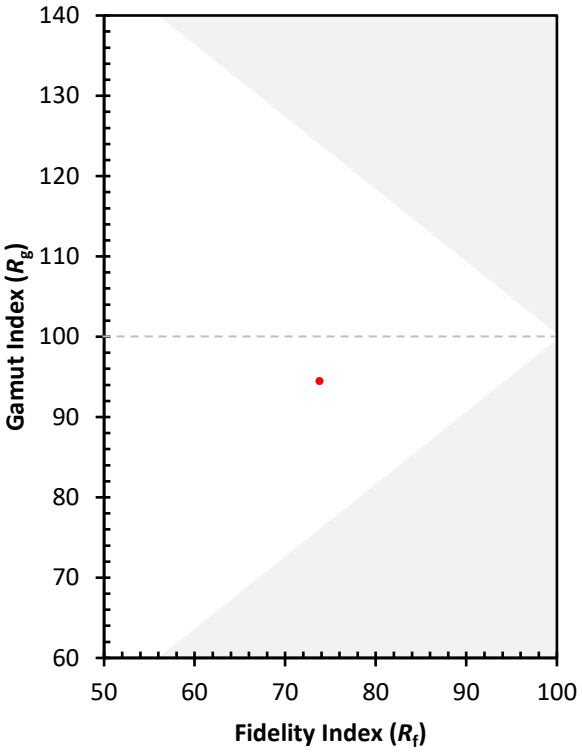
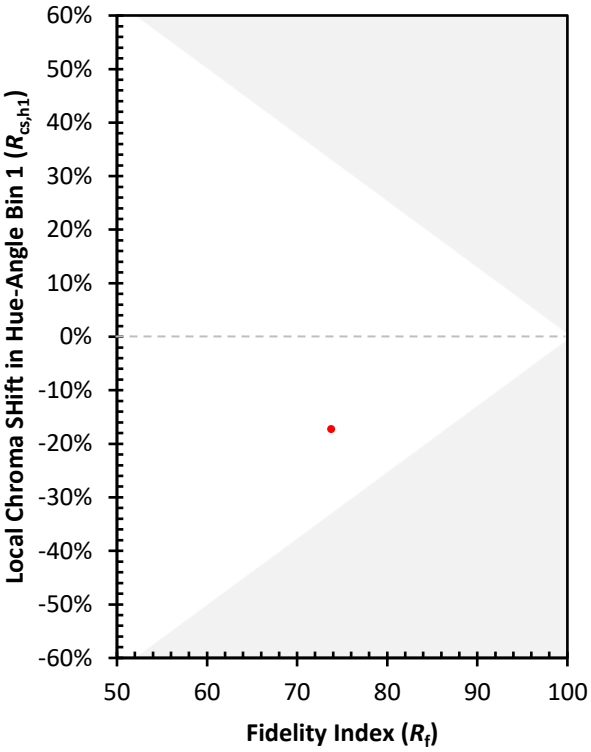
Measure Comparisons





(END OF REPORT)