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: P1066718

Luminaire Tested: **NVN-SA1B-727-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:	P1066718
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	08/07/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	NVN-SA1B-727-U-LBC
Description:	Navion AREA AND ROADWAY LUMINAIRE 800mA 1xLight Square PACKAGE 70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source:	(14) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3342.6 lumens
Efficiency:	N/A
Efficacy:	88.2 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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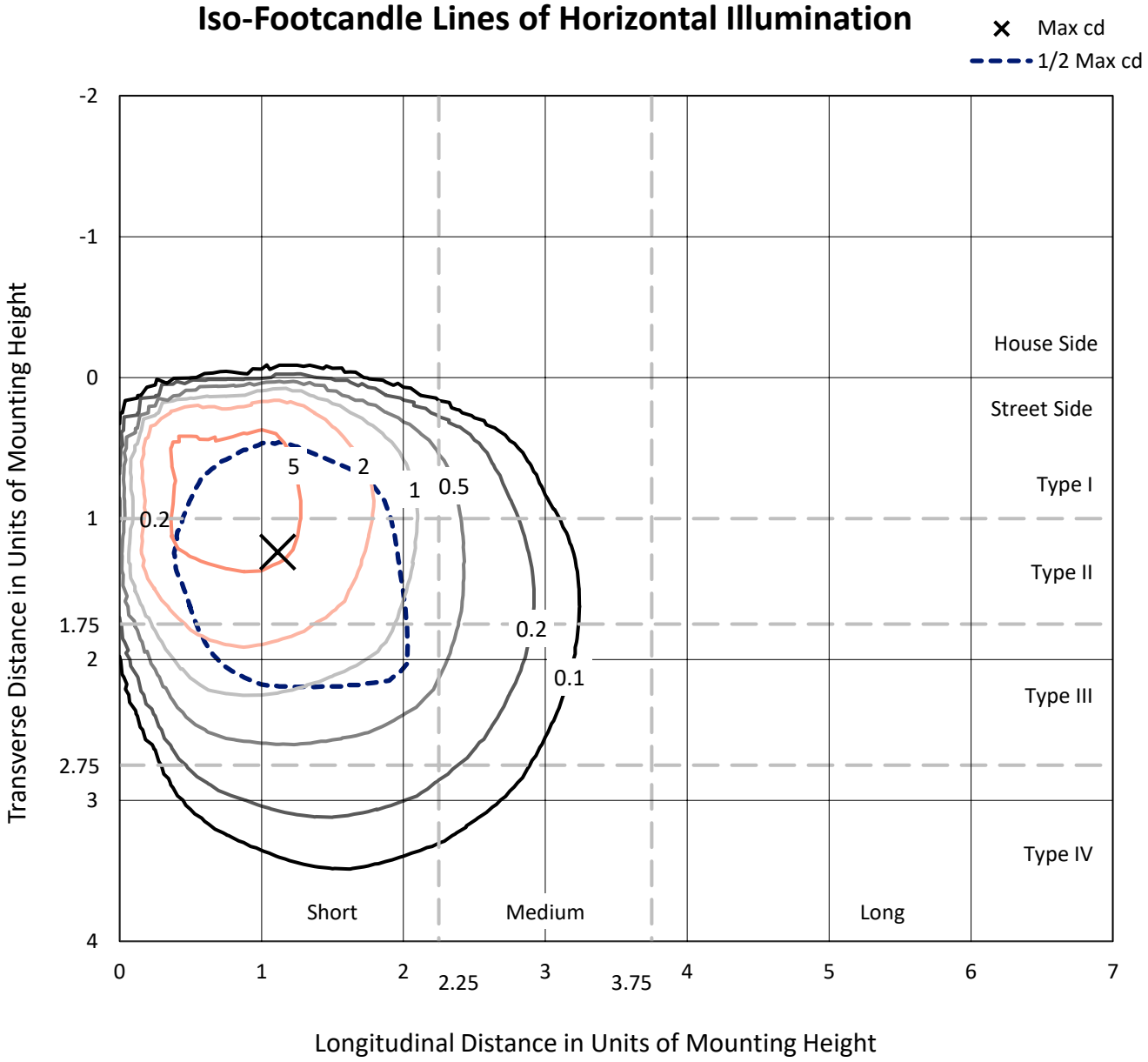
Iso-Footcandle Lines of Horizontal Illumination



Based on 15 foot mounting height. Maximum calculated value = 9.9 fc
Type III - Short - N/A

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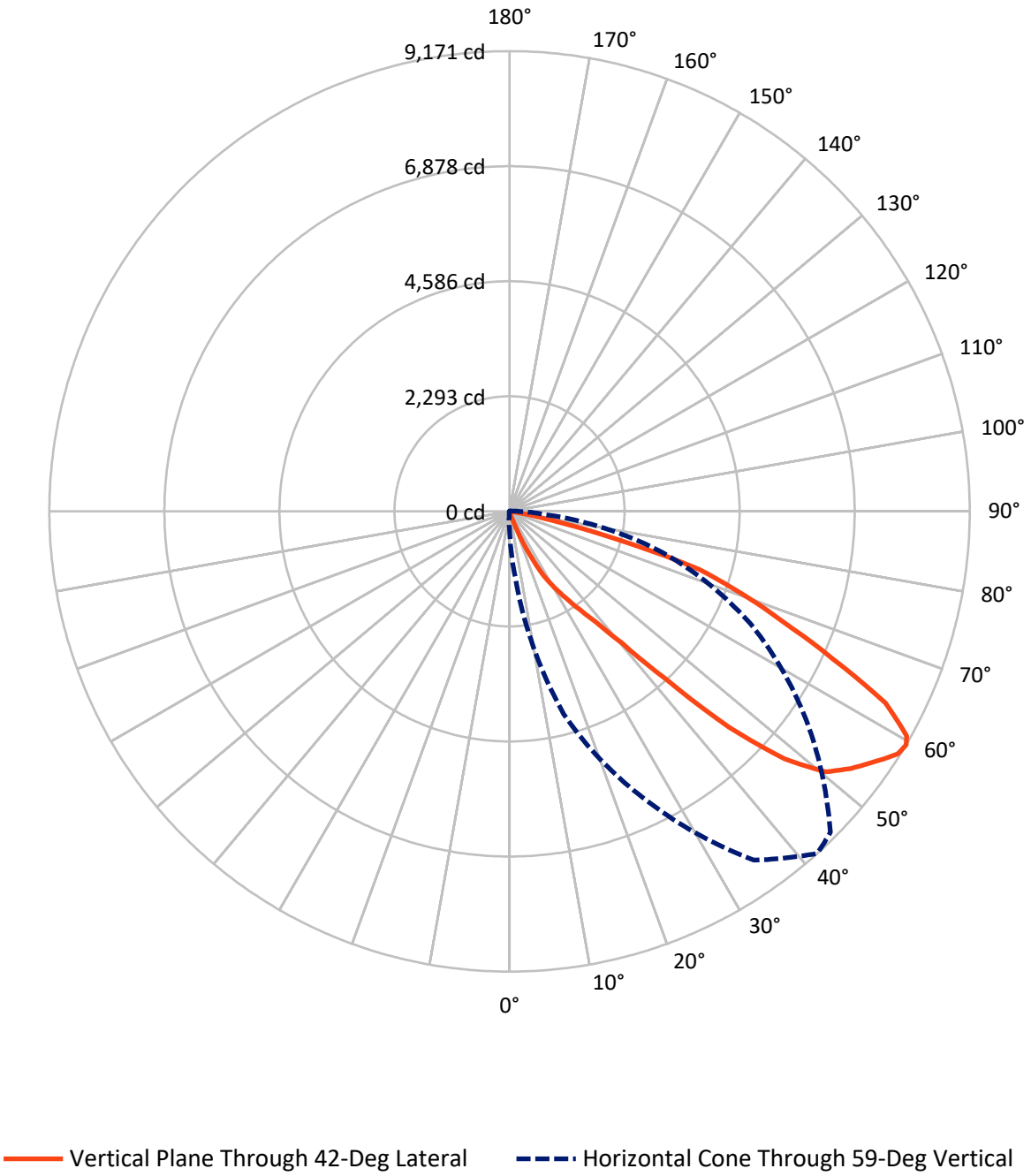
Luminous Intensity Polar Plot



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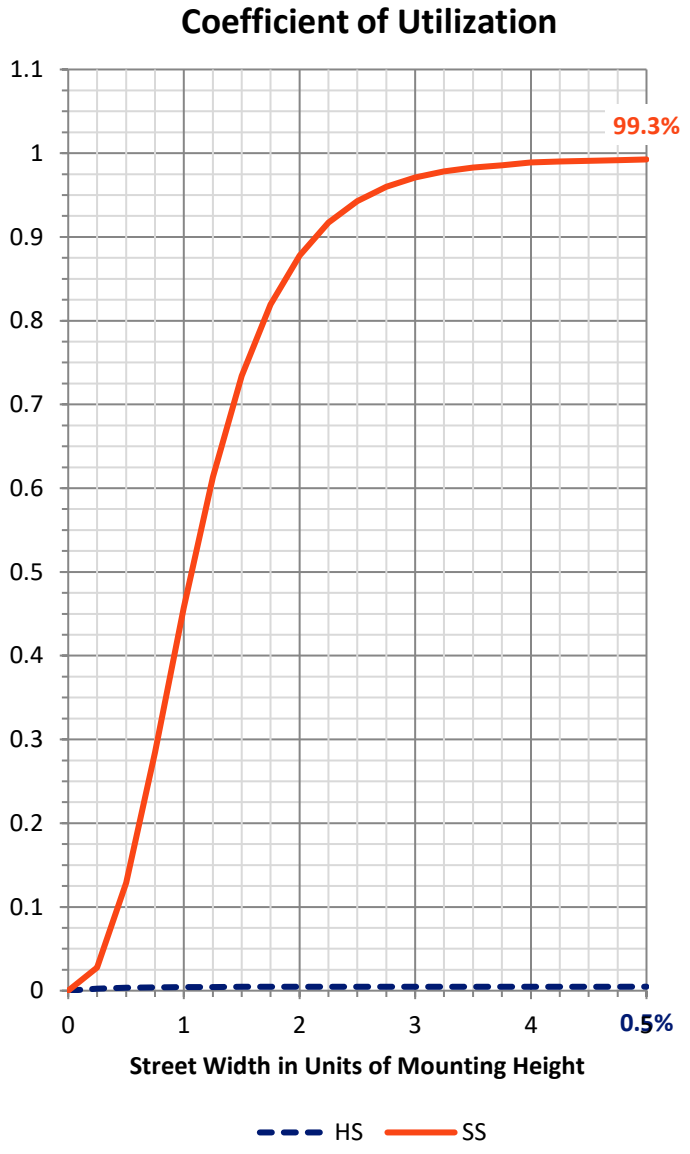
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16.1	0.0	16.1
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	3326.5	0.0	3326.5
	% Fixture	99.5	0.0	99.5
Total	Lumens	3342.6	0.0	3342.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.0
10°-20°	4.9	0.1
20°-30°	62.3	1.9
30°-40°	210.2	6.3
40°-50°	634.9	19.0
50°-60°	1120.8	33.5
60°-70°	986.9	29.5
70°-80°	314.1	9.4
80°-90°	7.5	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°	3342.6	100.0
0°-180°	3342.6	100.0



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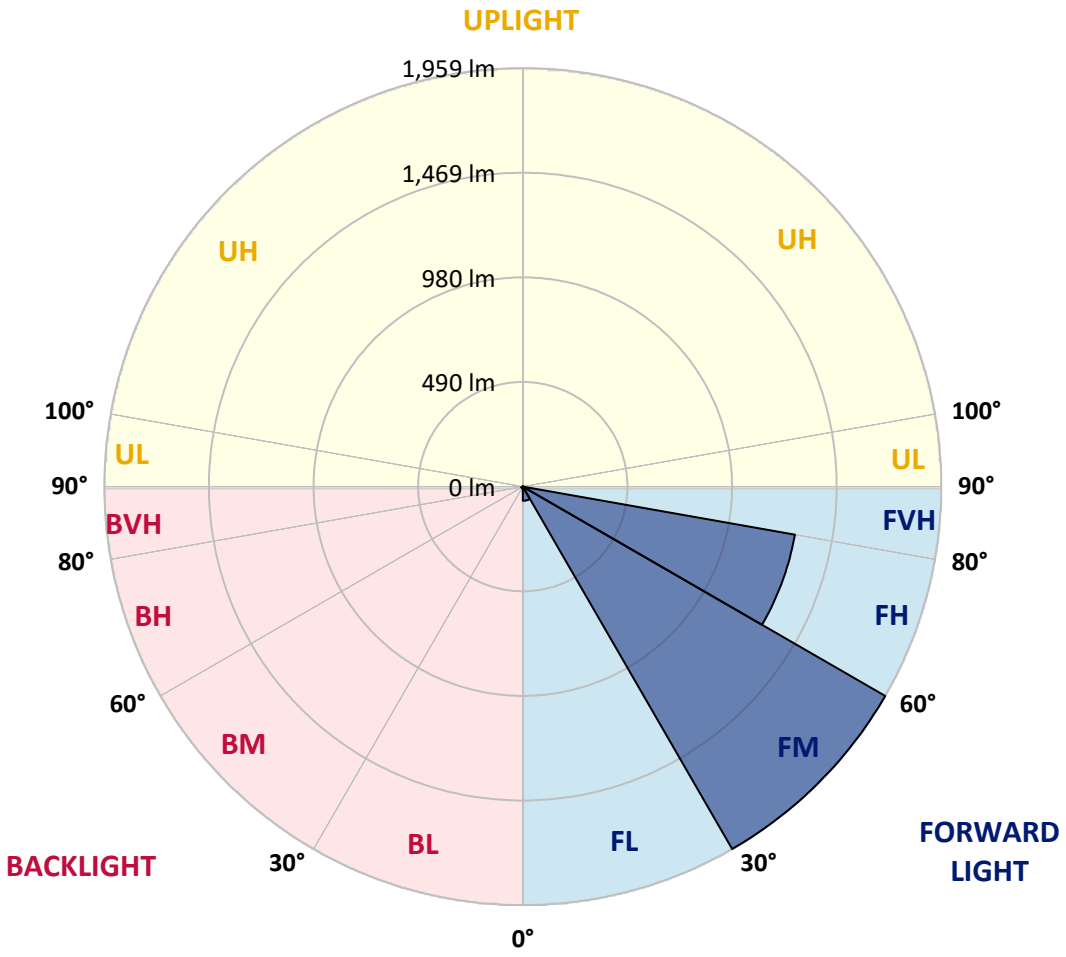
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	66.4	2.0			
FM	(30°-60°)	1959.3	58.6			
FH	(60°-80°)	1293.6	38.7			G1/1800
FVH	(80°-90°)	7.1	0.2			G0/10
BL	(0°-30°)	1.8	0.1	B0/110		
BM	(30°-60°)	6.6	0.2	B0/220		
BH	(60°-80°)	7.4	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°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
2.5°	14.7	14.7	13.6	12.6	11.5	10.5	10.5	10.5	9.4	9.4	8.4
5°	16.8	16.8	15.7	14.7	14.7	13.6	13.6	12.6	11.5	11.5	10.5
7.5°	17.8	17.8	17.8	17.8	16.8	16.8	16.8	15.7	14.7	13.6	12.6
10°	18.9	19.9	21.0	21.0	21.0	21.0	21.0	19.9	17.8	16.8	14.7
12.5°	21.0	22.0	24.1	26.2	26.2	27.2	26.2	25.2	23.1	19.9	16.8
15°	23.1	25.2	28.3	32.5	36.7	37.7	37.7	34.6	30.4	24.1	19.9
17.5°	26.2	29.3	37.7	51.4	66.0	77.6	77.6	69.2	48.2	31.4	23.1
20°	28.3	34.6	60.8	123.7	188.6	236.8	227.4	201.2	107.9	49.3	25.2
22.5°	31.4	44.0	128.9	324.9	503.0	591.1	570.1	432.8	242.1	88.0	30.4
25°	35.6	63.9	255.7	608.9	934.8	1030.2	1016.6	808.0	441.2	147.8	38.8
27.5°	44.0	94.3	409.8	923.3	1379.2	1460.9	1455.7	1183.2	705.3	237.9	50.3
30°	55.5	137.3	607.8	1254.5	1673.7	1756.5	1730.3	1457.8	951.6	363.7	65.0
32.5°	69.2	191.8	787.1	1498.6	1945.1	2054.1	2022.7	1696.7	1149.7	470.6	96.4
35°	90.1	245.2	964.2	1714.5	2258.5	2396.8	2344.4	1943.0	1320.5	591.1	116.3
37.5°	100.6	276.7	1126.6	1949.3	2610.6	2799.2	2759.4	2254.3	1494.5	745.1	142.5
40°	101.7	314.4	1295.3	2255.3	3108.4	3444.8	3373.5	2788.7	1818.3	943.2	183.4
42.5°	104.8	371.0	1514.4	2777.2	4086.2	4569.3	4488.6	3771.8	2552.9	1340.4	259.9
45°	119.5	477.9	1960.8	3752.9	5428.7	6137.1	6043.9	5141.5	3578.9	2087.6	443.3
47.5°	170.8	718.9	2743.7	4806.2	6801.6	7366.4	7343.4	6221.0	4508.5	2853.7	751.4
50°	274.6	1103.6	3634.5	5691.7	7675.6	8160.8	8103.2	6671.6	5038.8	3376.7	963.1
52.5°	366.8	1471.4	4194.1	6017.7	7936.6	8515.1	8444.8	6836.1	5178.2	3530.7	1021.8
55°	389.9	1604.5	4360.8	6118.3	8109.5	8814.8	8713.1	6946.2	5196.0	3420.7	924.3
57.5°	378.3	1478.7	4252.8	6216.8	8350.5	9122.9	8987.7	7161.0	5255.8	3234.1	769.2
59°	358.4	1323.6	4185.7	6295.4	8483.6	9171.1	9044.3	7208.2	5295.6	3149.3	674.9
60°	335.4	1218.8	4133.3	6346.7	8475.2	9095.6	8964.6	7186.2	5311.3	3075.9	629.9
62.5°	258.9	972.5	4057.9	6310.0	7946.0	8407.1	8332.7	6647.5	5080.7	2841.1	496.8
65°	201.2	744.1	3781.2	5627.8	6761.7	7071.9	7048.9	5628.8	4275.9	2449.2	358.4
67.5°	159.3	542.9	3197.5	4557.8	5440.2	5881.4	5864.6	4569.3	3245.7	1871.7	257.8
70°	130.0	386.7	2192.4	3436.4	4351.3	4906.8	4882.7	3677.5	2405.2	1187.4	187.6
72.5°	110.0	247.3	1329.9	2590.7	3631.3	3948.9	3878.7	2966.9	1749.1	646.6	148.8
75°	93.3	152.0	659.2	1615.0	2163.1	2161.0	2090.8	1571.0	939.0	316.5	118.4
77.5°	75.5	106.9	258.9	443.3	682.3	844.7	831.1	556.5	280.9	92.2	73.4
80°	49.3	50.3	69.2	121.6	187.6	207.5	235.8	169.8	81.7	44.0	30.4
82.5°	22.0	24.1	31.4	39.8	39.8	36.7	32.5	24.1	17.8	14.7	7.3
85°	5.2	7.3	5.2	6.3	5.2	4.2	4.2	2.1	0.0	0.0	0.0
87.5°	1.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
2.5°	8.4	8.4	8.4	7.3	7.3	7.3	6.3	6.3	6.3	5.2	5.2
5°	10.5	9.4	8.4	8.4	7.3	7.3	6.3	5.2	5.2	5.2	4.2
7.5°	11.5	10.5	9.4	8.4	7.3	6.3	6.3	5.2	4.2	4.2	4.2
10°	13.6	12.6	10.5	8.4	7.3	6.3	5.2	5.2	4.2	3.1	3.1
12.5°	15.7	13.6	11.5	9.4	7.3	6.3	5.2	5.2	4.2	3.1	2.1
15°	17.8	15.7	12.6	9.4	7.3	6.3	5.2	5.2	3.1	2.1	1.0
17.5°	19.9	16.8	12.6	10.5	7.3	6.3	5.2	4.2	2.1	1.0	0.0
20°	21.0	17.8	13.6	10.5	7.3	6.3	5.2	3.1	1.0	0.0	0.0
22.5°	23.1	19.9	14.7	10.5	7.3	5.2	3.1	1.0	0.0	0.0	0.0
25°	27.2	21.0	14.7	10.5	7.3	5.2	2.1	0.0	0.0	0.0	0.0
27.5°	30.4	23.1	14.7	10.5	7.3	4.2	1.0	0.0	0.0	0.0	0.0
30°	35.6	25.2	15.7	10.5	7.3	3.1	1.0	0.0	0.0	0.0	0.0
32.5°	44.0	27.2	15.7	10.5	6.3	3.1	0.0	0.0	0.0	0.0	0.0
35°	53.4	31.4	15.7	10.5	6.3	3.1	0.0	0.0	0.0	0.0	0.0
37.5°	54.5	33.5	15.7	10.5	6.3	2.1	0.0	0.0	0.0	0.0	0.0
40°	56.6	31.4	16.8	10.5	6.3	2.1	0.0	0.0	0.0	0.0	0.0
42.5°	65.0	29.3	17.8	10.5	6.3	2.1	0.0	0.0	0.0	0.0	0.0
45°	96.4	30.4	17.8	11.5	6.3	3.1	0.0	0.0	0.0	0.0	0.0
47.5°	167.7	31.4	16.8	11.5	6.3	3.1	0.0	0.0	0.0	0.0	0.0
50°	214.8	36.7	16.8	12.6	7.3	2.1	0.0	0.0	0.0	0.0	0.0
52.5°	228.5	43.0	16.8	13.6	9.4	1.0	0.0	0.0	0.0	0.0	0.0
55°	222.2	50.3	17.8	14.7	11.5	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	205.4	54.5	18.9	15.7	12.6	0.0	0.0	0.0	0.0	0.0	0.0
59°	*187.6*	*57.6*	*22.0*	*16.8*	*12.6*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*
60°	172.9	60.8	23.1	17.8	12.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	139.4	65.0	25.2	21.0	10.5	0.0	0.0	0.0	0.0	0.0	0.0
65°	121.6	68.1	26.2	23.1	9.4	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	111.1	70.2	28.3	24.1	8.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	102.7	69.2	30.4	23.1	7.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	93.3	66.0	36.7	21.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	83.8	59.7	39.8	18.9	4.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	60.8	50.3	36.7	16.8	2.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	26.2	27.2	26.2	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.2	6.3	5.2	3.1	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°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
2.5°	5.2	5.2	5.2	5.2	6.3	6.3	8.4	10.5	12.6	13.6	13.6
5°	4.2	4.2	4.2	4.2	4.2	5.2	6.3	8.4	11.5	12.6	12.6
7.5°	3.1	3.1	3.1	3.1	3.1	3.1	5.2	7.3	10.5	11.5	12.6
10°	3.1	2.1	2.1	1.0	1.0	2.1	3.1	6.3	9.4	10.5	11.5
12.5°	2.1	1.0	1.0	0.0	0.0	1.0	2.1	5.2	8.4	9.4	10.5
15°	1.0	0.0	0.0	0.0	0.0	0.0	1.0	4.2	7.3	8.4	10.5
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	6.3	8.4	9.4
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	5.2	7.3	8.4
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	4.2	6.3	7.3
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	4.2	5.2
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	3.1	4.2
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	3.1	4.2
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.1	3.1
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.1	3.1
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.1	2.1
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.1
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.1
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.1
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.1
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.1
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
59°	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*1.0*
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
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: P1066718
CATALOG NUMBER: NVN-SA1B-727-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	318°	325°	335°	345°	355°	360°
0°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
2.5°	14.7	14.7	13.6	12.6	12.6	12.6	13.6	14.7	14.7	14.7
5°	13.6	13.6	12.6	12.6	12.6	12.6	13.6	15.7	16.8	16.8
7.5°	13.6	13.6	12.6	12.6	12.6	12.6	13.6	15.7	16.8	17.8
10°	12.6	12.6	12.6	12.6	11.5	12.6	13.6	15.7	18.9	18.9
12.5°	12.6	12.6	12.6	12.6	11.5	12.6	14.7	16.8	19.9	21.0
15°	12.6	12.6	12.6	11.5	11.5	12.6	14.7	17.8	21.0	23.1
17.5°	11.5	12.6	12.6	11.5	11.5	12.6	14.7	17.8	23.1	26.2
20°	10.5	11.5	12.6	11.5	11.5	11.5	14.7	17.8	24.1	28.3
22.5°	9.4	10.5	11.5	11.5	10.5	11.5	14.7	18.9	26.2	31.4
25°	8.4	9.4	9.4	10.5	10.5	11.5	14.7	18.9	27.2	35.6
27.5°	6.3	7.3	8.4	9.4	9.4	11.5	14.7	19.9	29.3	44.0
30°	5.2	6.3	7.3	8.4	9.4	11.5	14.7	19.9	31.4	55.5
32.5°	5.2	6.3	7.3	8.4	9.4	10.5	14.7	21.0	34.6	69.2
35°	4.2	5.2	6.3	8.4	8.4	10.5	14.7	21.0	37.7	90.1
37.5°	4.2	5.2	6.3	8.4	8.4	10.5	14.7	21.0	46.1	100.6
40°	3.1	4.2	5.2	8.4	8.4	10.5	15.7	22.0	47.2	101.7
42.5°	3.1	4.2	5.2	7.3	8.4	10.5	15.7	22.0	44.0	104.8
45°	3.1	4.2	5.2	8.4	9.4	11.5	15.7	23.1	43.0	119.5
47.5°	3.1	4.2	5.2	8.4	10.5	11.5	15.7	23.1	44.0	170.8
50°	3.1	4.2	5.2	8.4	11.5	11.5	15.7	23.1	48.2	274.6
52.5°	2.1	3.1	4.2	7.3	9.4	12.6	16.8	22.0	51.4	366.8
55°	2.1	2.1	3.1	6.3	8.4	13.6	17.8	22.0	59.7	389.9
57.5°	2.1	2.1	3.1	5.2	7.3	14.7	18.9	22.0	69.2	378.3
59°	*2.1*	*2.1*	*2.1*	*5.2*	*6.3*	*14.7*	*18.9*	*23.1*	*70.2*	*358.4*
60°	2.1	2.1	2.1	4.2	6.3	14.7	19.9	24.1	71.3	335.4
62.5°	1.0	1.0	1.0	4.2	5.2	14.7	22.0	29.3	73.4	258.9
65°	2.1	2.1	1.0	3.1	5.2	12.6	25.2	31.4	74.4	201.2
67.5°	2.1	2.1	2.1	4.2	5.2	12.6	26.2	32.5	74.4	159.3
70°	2.1	2.1	2.1	4.2	6.3	12.6	26.2	33.5	73.4	130.0
72.5°	2.1	2.1	2.1	4.2	6.3	11.5	24.1	34.6	70.2	110.0
75°	2.1	2.1	2.1	3.1	5.2	10.5	23.1	37.7	63.9	93.3
77.5°	2.1	2.1	2.1	2.1	4.2	8.4	21.0	41.9	56.6	75.5
80°	3.1	2.1	2.1	2.1	3.1	7.3	19.9	40.9	47.2	49.3
82.5°	3.1	2.1	2.1	1.0	2.1	5.2	15.7	31.4	24.1	22.0
85°	2.1	2.1	2.1	1.0	1.0	3.1	7.3	9.4	7.3	5.2
87.5°	2.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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: SP1-2407-184-3

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-727-U-5WQ

Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

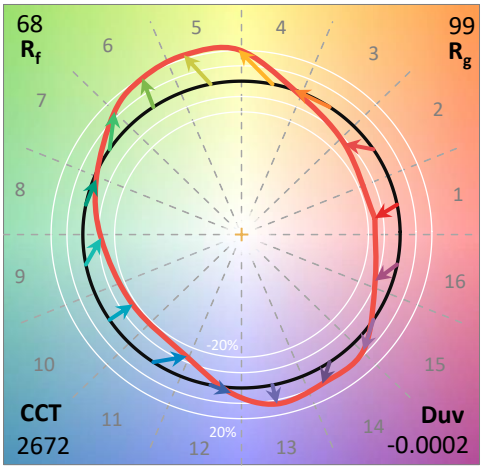
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-3
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-727-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 2700K CCT 26 LEDS

Spectral Parameters

CCT (K):	2672
CIE u':	0.2638
CIE v':	0.5276
Duv:	-0.0002
CIE x:	0.4619
CIE y:	0.4106
CIE z:	0.1275
Peak Wavelength (nm):	601
Dominant Wavelength (nm):	584
Purity:	61.88407
Rf:	67.9
Rg:	98.6

CRI (Ra):	71.1
R1:	68.3
R2:	79.8
R3:	91.2
R4:	69.4
R5:	66.5
R6:	72.6
R7:	77.0
R8:	44.1
R9:	-27.8
R10:	54.4
R11:	65.8
R12:	45.6
R13:	69.8
R14:	94.5
R15:	60.1



Test Conditions

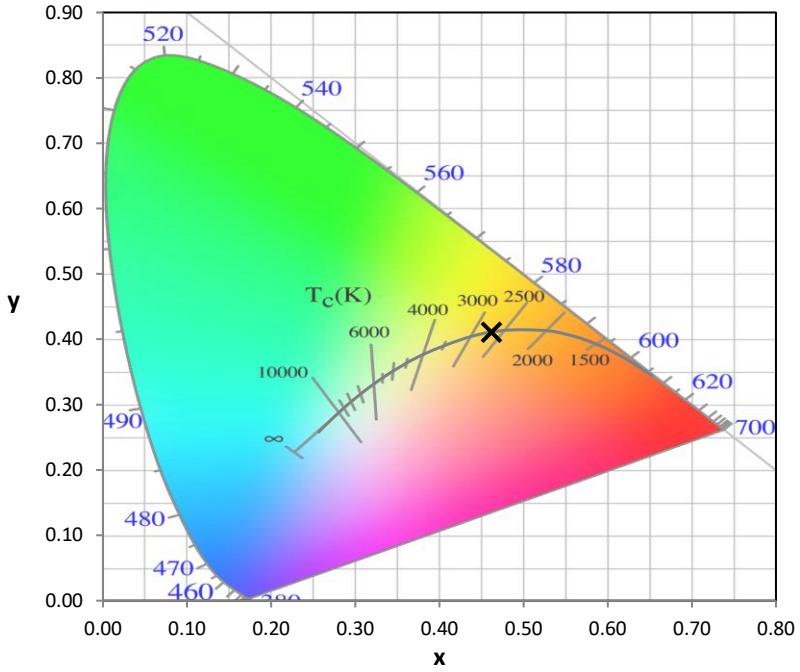
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-3

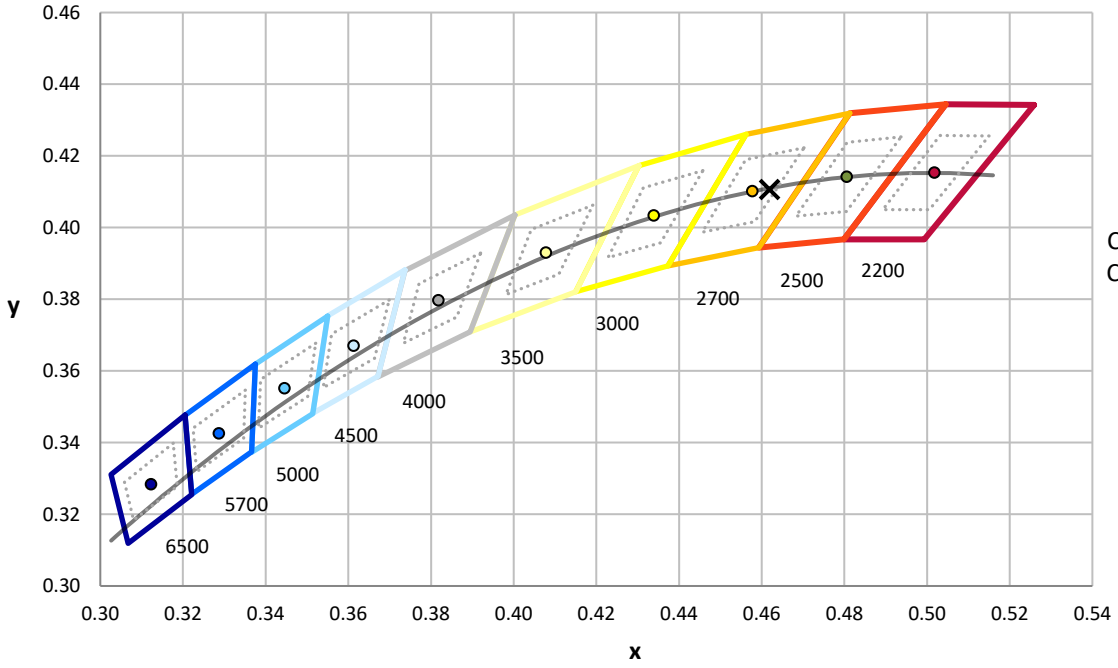
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-3

CIE 1931 Chromaticity Diagram



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

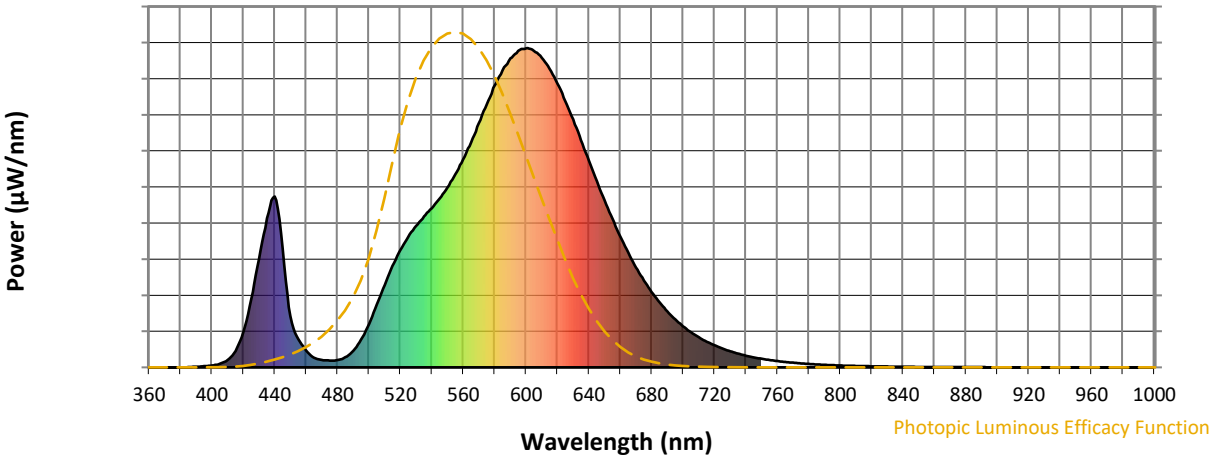


CCT = 2672K
CIE x = 0.4619
CIE y = 0.4106
Duv = -0.0002

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-3

Photopic Flux vs. Wavelength

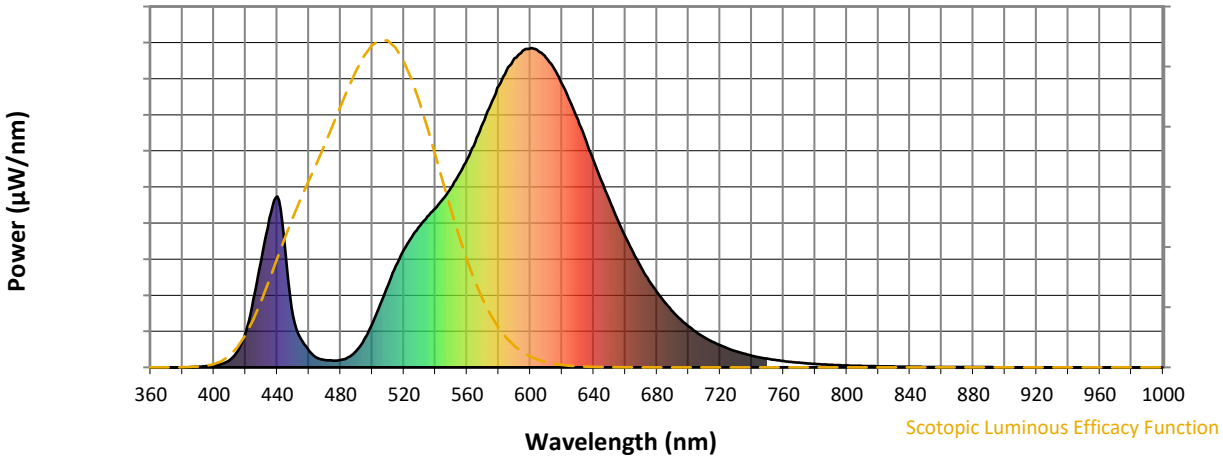


Photopic Lumens: NR

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Scotopic Flux vs. Wavelength

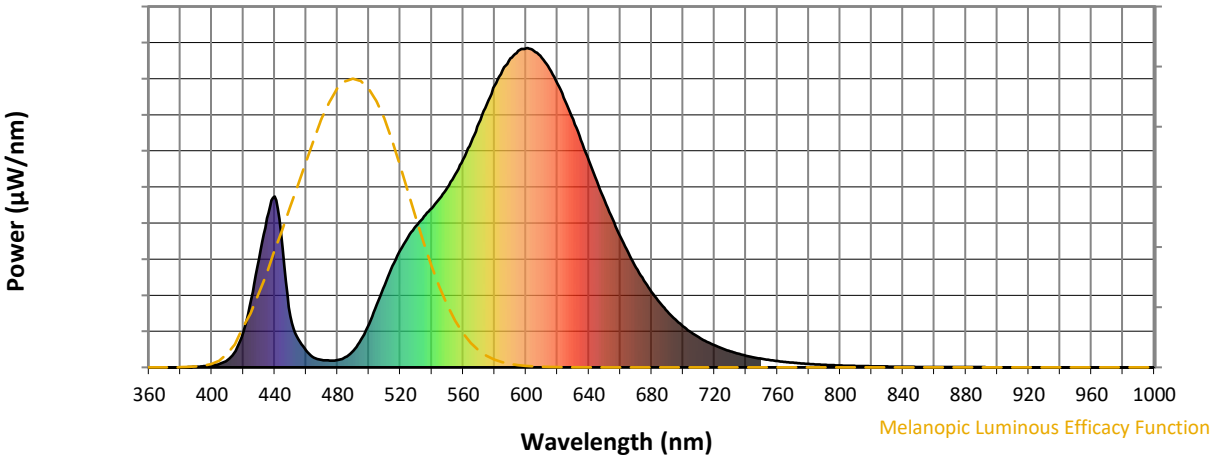


Scotopic Lumens: NR **S/P: 1.02**

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.71**

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

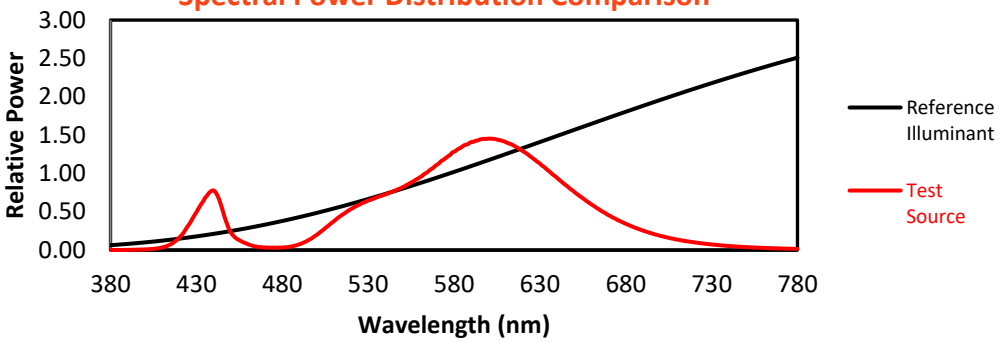
REPORT NUMBER: SP1-2407-184-3

TM-30-18

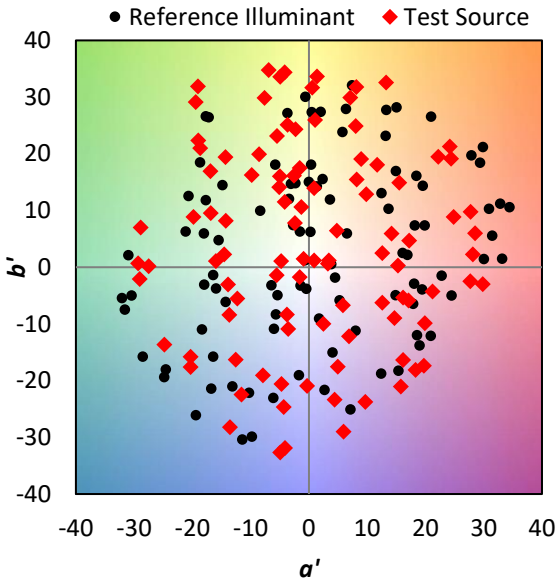
Summary

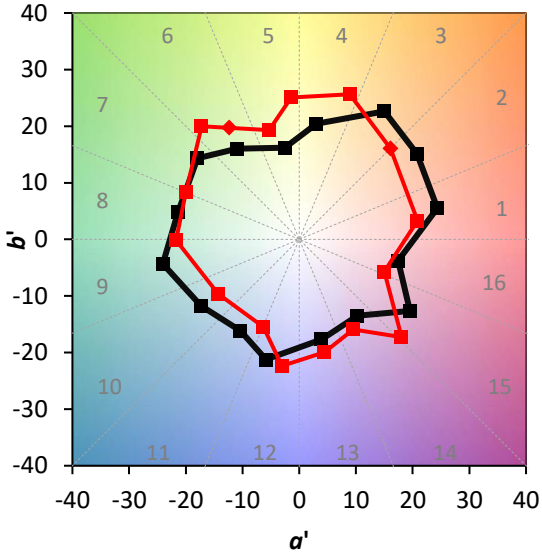
R_f = 67.9
R_g = 98.6
CIE R_a = 71.1
R_9 = -27.8

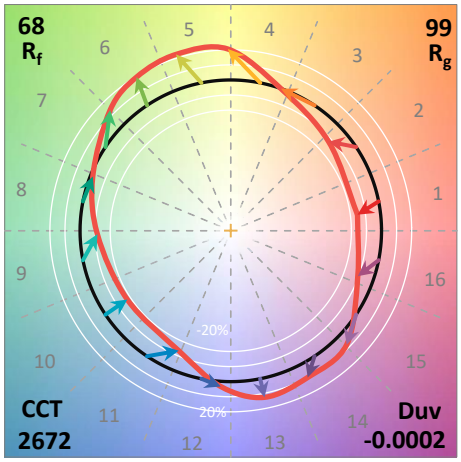
Spectral Power Distribution Comparison

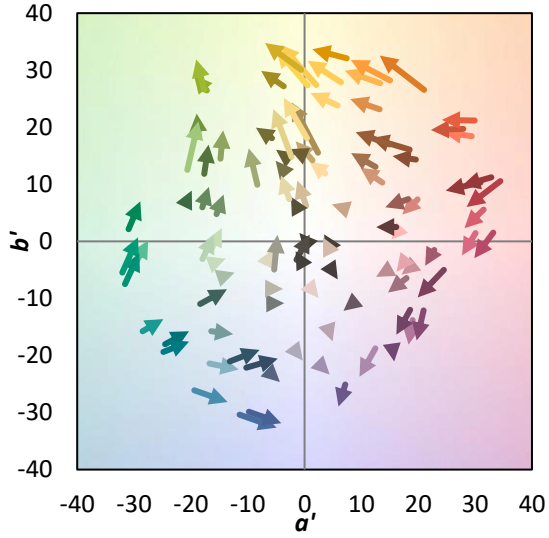


Color Vector Graphics







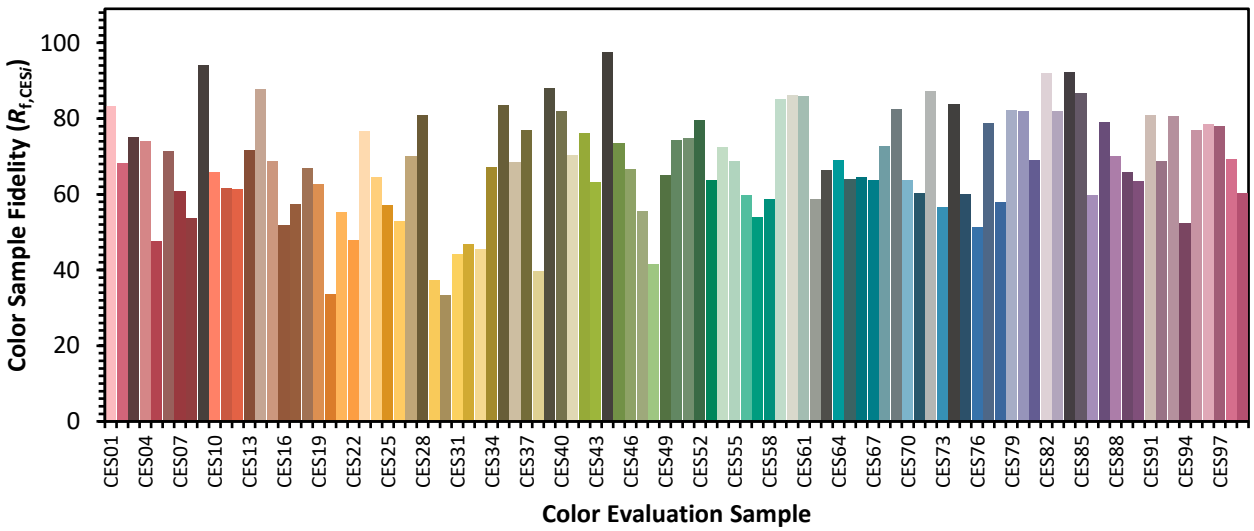


REPORT NUMBER: SP1-2407-184-3

TM-30-18

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

CES01 = 86	CES26 = 53	CES51 = 75	CES76 = 51
CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 54	CES82 = 92
CES08 = 41	CES33 = 45	CES58 = 59	CES83 = 82
CES09 = 29	CES34 = 67	CES59 = 85	CES84 = 92
CES10 = 77	CES35 = 84	CES60 = 86	CES85 = 87
CES11 = 60	CES36 = 68	CES61 = 86	CES86 = 60
CES12 = 66	CES37 = 77	CES62 = 59	CES87 = 79
CES13 = 44	CES38 = 40	CES63 = 66	CES88 = 70
CES14 = 74	CES39 = 88	CES64 = 69	CES89 = 66
CES15 = 72	CES40 = 82	CES65 = 64	CES90 = 64
CES16 = 48	CES41 = 70	CES66 = 65	CES91 = 81
CES17 = 51	CES42 = 76	CES67 = 64	CES92 = 69
CES18 = 57	CES43 = 63	CES68 = 73	CES93 = 81
CES19 = 73	CES44 = 97	CES69 = 83	CES94 = 53
CES20 = 67	CES45 = 74	CES70 = 64	CES95 = 77
CES21 = 88	CES46 = 67	CES71 = 60	CES96 = 79
CES22 = 80	CES47 = 55	CES72 = 87	CES97 = 78
CES23 = 92	CES48 = 42	CES73 = 57	CES98 = 69
CES24 = 92	CES49 = 65	CES74 = 84	CES99 = 60
CES25 = 73	CES50 = 74	CES75 = 60	



REPORT NUMBER: SP1-2407-184-3

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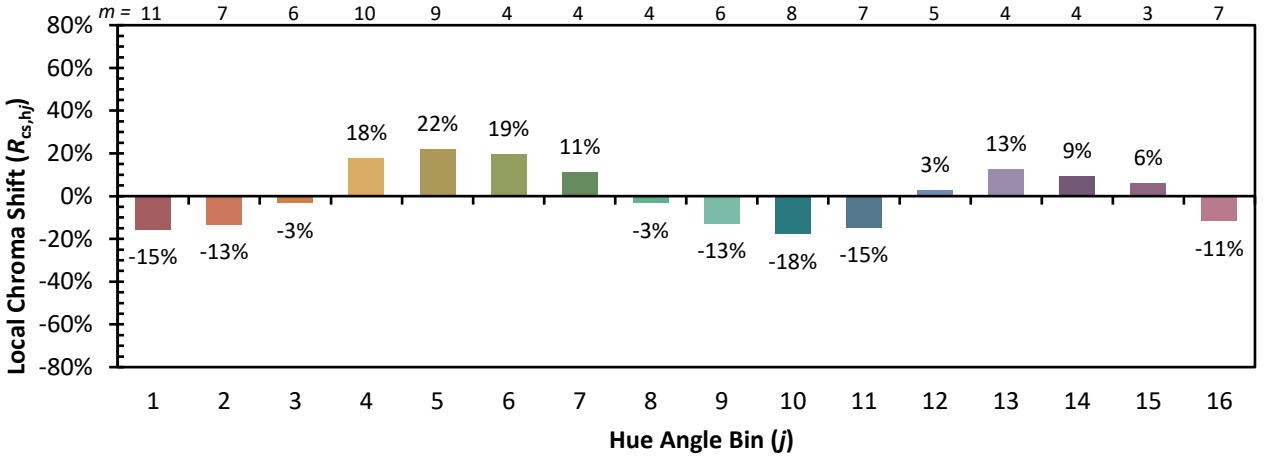
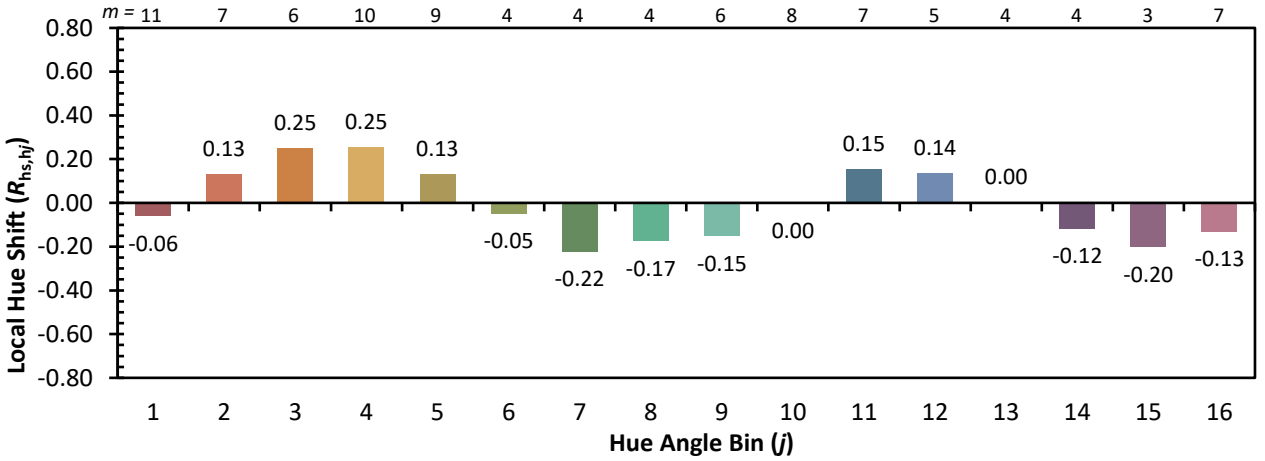
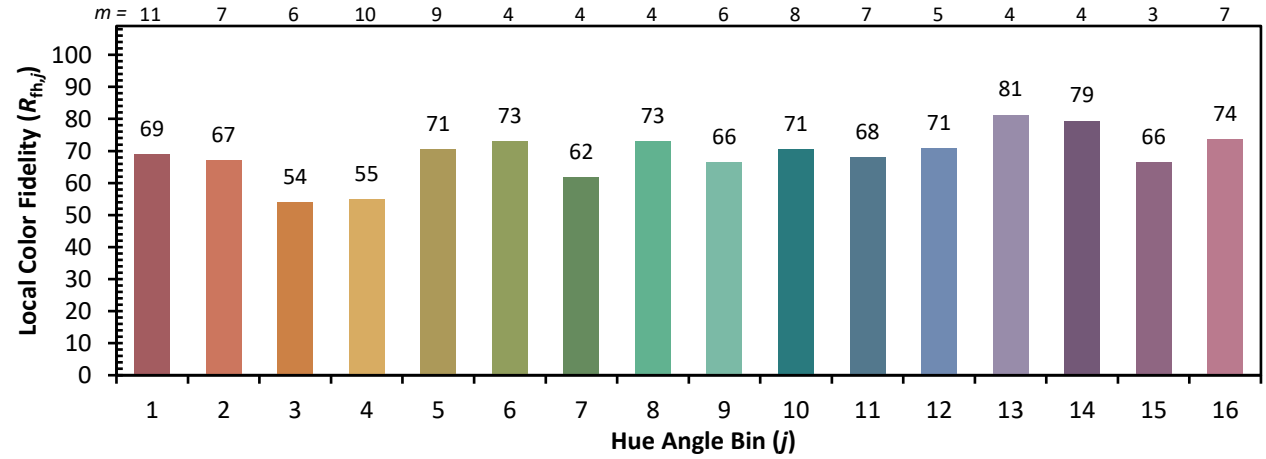
Color Rendition by Hue-Angle Bin







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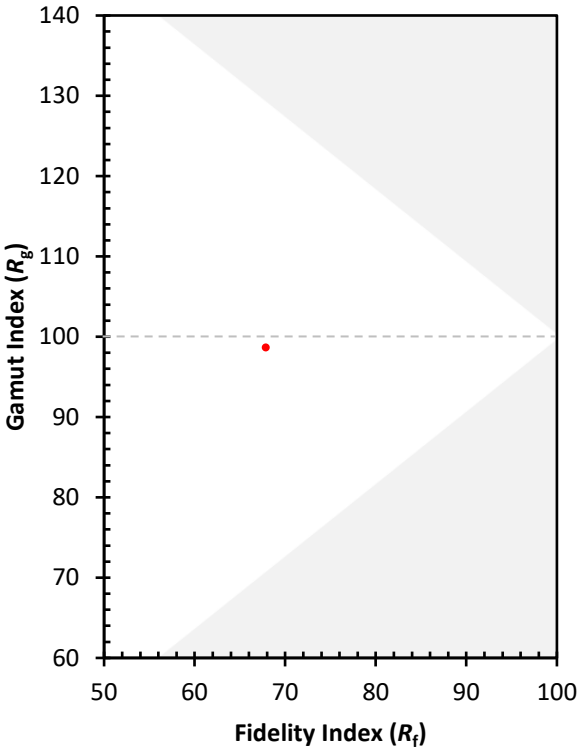
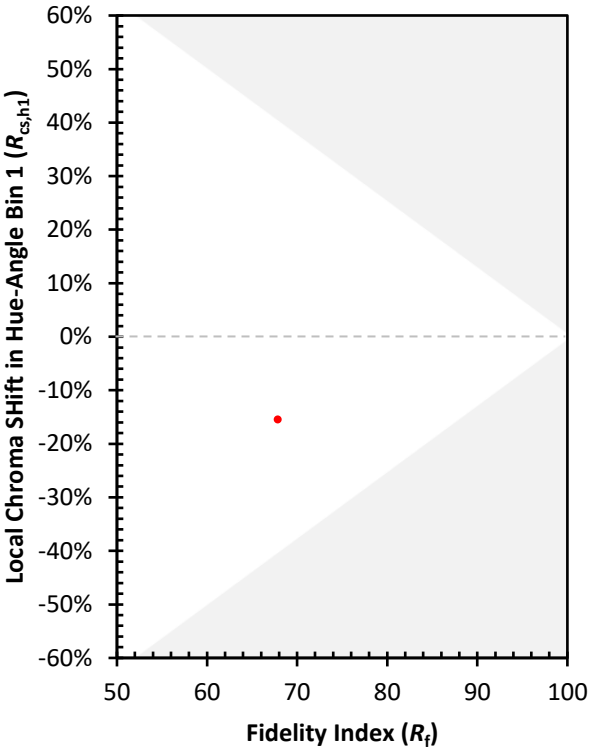
Measure Comparisons





(END OF REPORT)