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: P1066745

Luminaire Tested: **NVN-SA2A-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:	P1066745
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	08/07/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	NVN-SA2A-730-U-LBC
Description:	Navion AREA AND ROADWAY LUMINAIRE 615mA 2xLight Square PACKAGE 70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source:	(28) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5667.9 lumens
Efficiency:	N/A
Efficacy:	102.5 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B0 - U0 - G2

Input Watts (W):	55.3
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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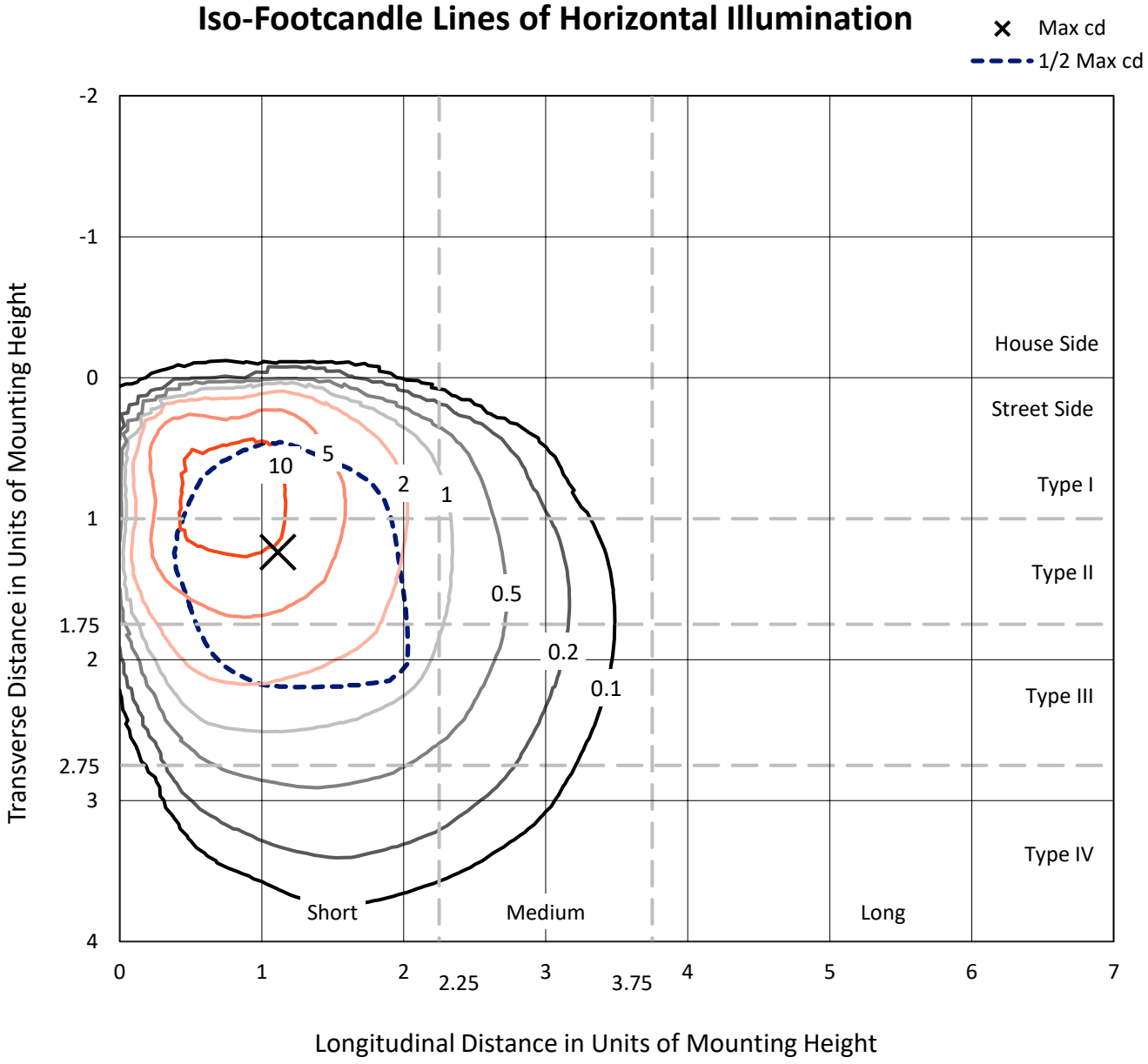
Iso-Footcandle Lines of Horizontal Illumination



Based on 15 foot mounting height. Maximum calculated value = 16.8 fc
Type III - Short - N/A

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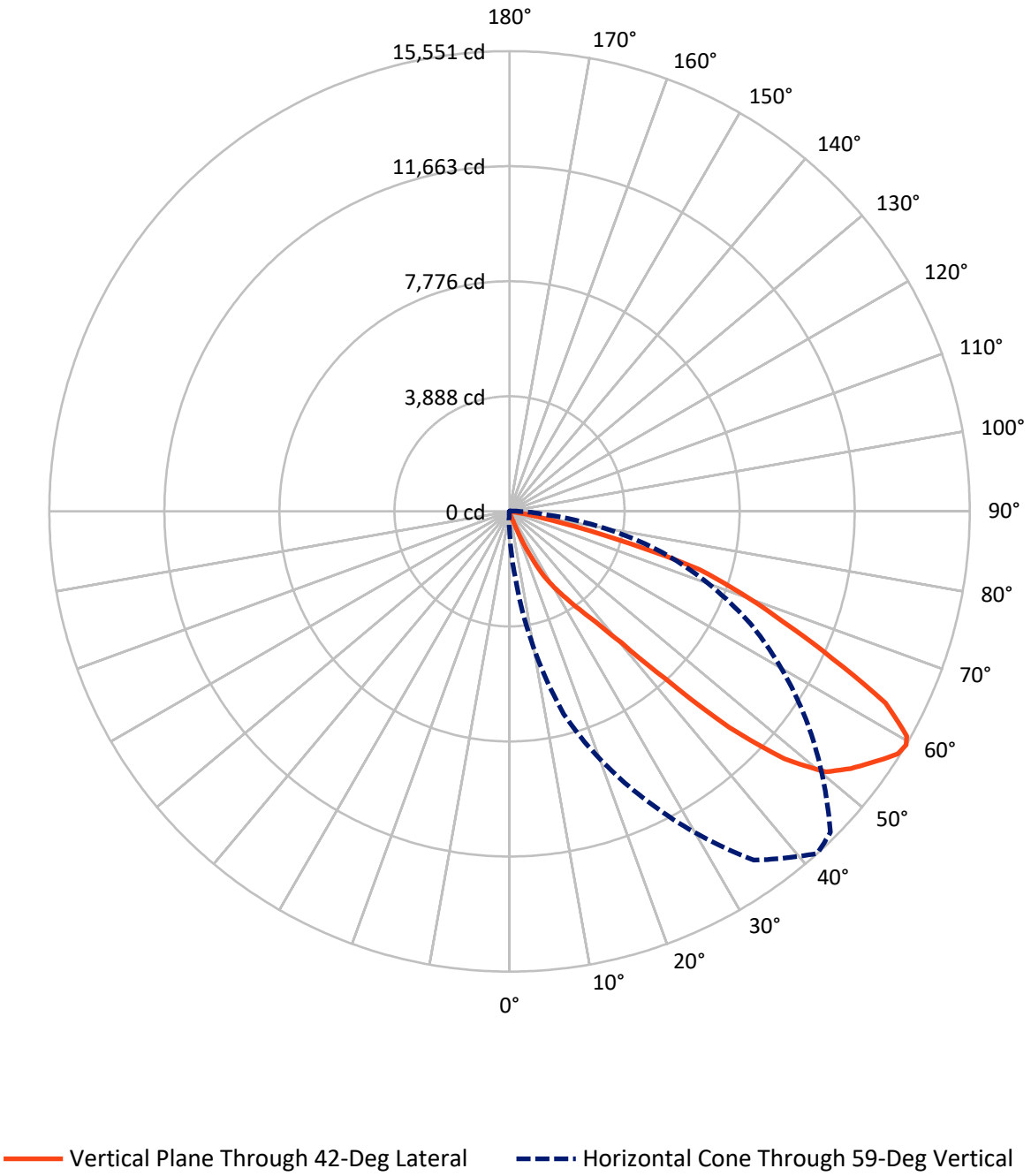
Luminous Intensity Polar Plot



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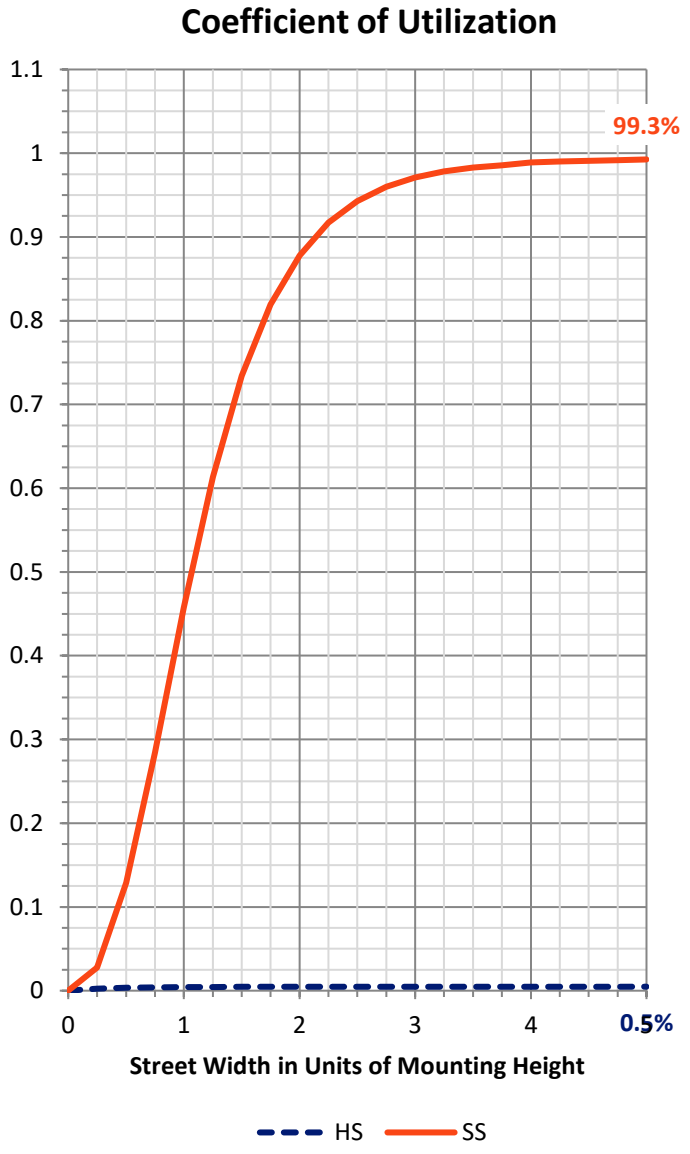
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27.3	0.0	27.3
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	5640.6	0.0	5640.6
	% Fixture	99.5	0.0	99.5
Total	Lumens	5667.9	0.0	5667.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.7	0.0
10°-20°	8.3	0.1
20°-30°	105.7	1.9
30°-40°	356.4	6.3
40°-50°	1076.6	19.0
50°-60°	1900.4	33.5
60°-70°	1673.4	29.5
70°-80°	532.6	9.4
80°-90°	12.7	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°	5667.9	100.0
0°-180°	5667.9	100.0



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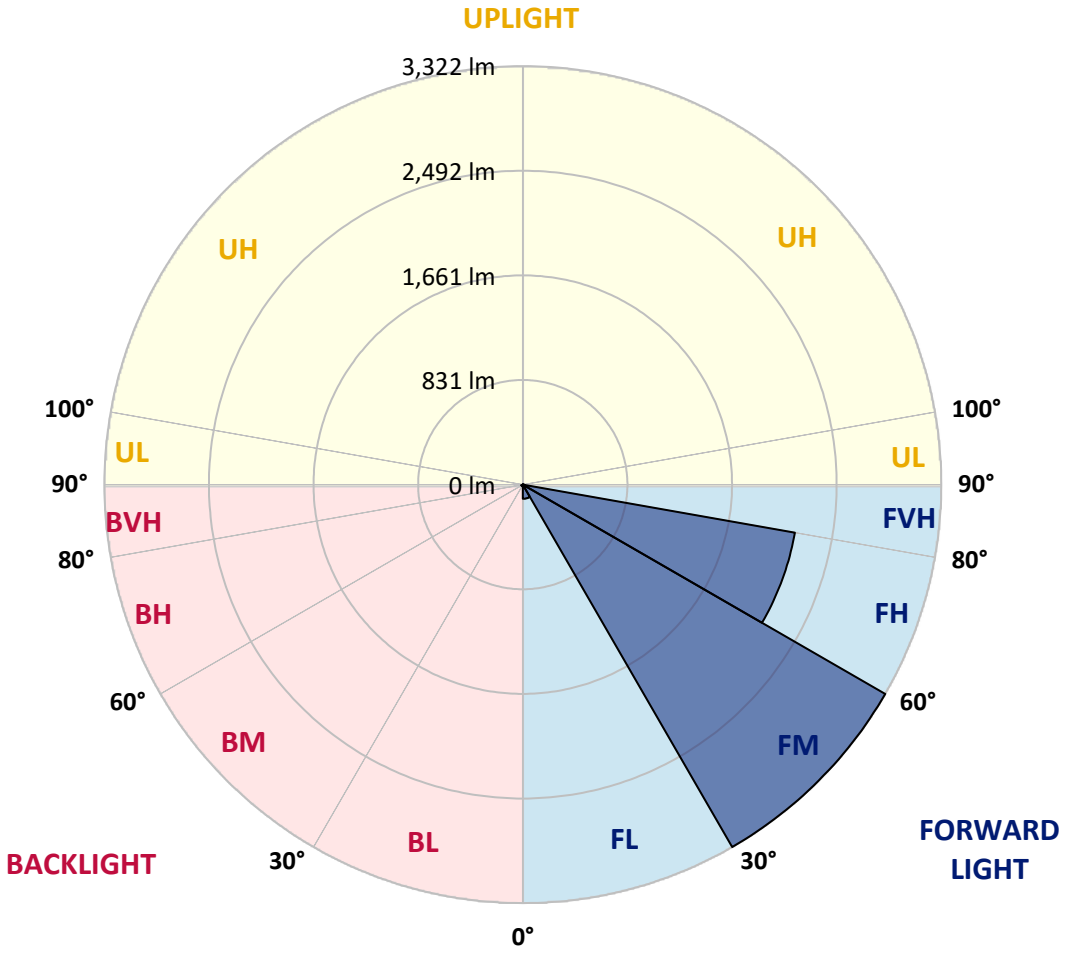
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	112.6	2.0			
FM	(30°-60°)	3322.3	58.6			
FH	(60°-80°)	2193.5	38.7			G2/5000
FVH	(80°-90°)	12.1	0.2			G1/100
BL	(0°-30°)	3.0	0.1	B0/110		
BM	(30°-60°)	11.2	0.2	B0/220		
BH	(60°-80°)	12.5	0.2	B0/110		G0/110
BVH	(80°-90°)	0.6	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°	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
2.5°	24.9	24.9	23.1	21.3	19.5	17.8	17.8	17.8	16.0	16.0	14.2
5°	28.4	28.4	26.7	24.9	24.9	23.1	23.1	21.3	19.5	19.5	17.8
7.5°	30.2	30.2	30.2	30.2	28.4	28.4	28.4	26.7	24.9	23.1	21.3
10°	32.0	33.8	35.5	35.5	35.5	35.5	35.5	33.8	30.2	28.4	24.9
12.5°	35.5	37.3	40.9	44.4	44.4	46.2	44.4	42.6	39.1	33.8	28.4
15°	39.1	42.6	48.0	55.1	62.2	64.0	64.0	58.6	51.5	40.9	33.8
17.5°	44.4	49.8	64.0	87.1	112.0	131.5	131.5	117.3	81.7	53.3	39.1
20°	48.0	58.6	103.1	209.7	319.9	401.6	385.6	341.2	183.0	83.5	42.6
22.5°	53.3	74.6	218.6	550.9	853.0	1002.3	966.7	733.9	410.5	149.3	51.5
25°	60.4	108.4	433.6	1032.5	1585.1	1746.9	1723.8	1370.1	748.1	250.6	65.8
27.5°	74.6	159.9	694.8	1565.6	2338.6	2477.2	2468.3	2006.3	1196.0	403.4	85.3
30°	94.2	232.8	1030.7	2127.1	2838.0	2978.4	2933.9	2471.9	1613.6	616.6	110.2
32.5°	117.3	325.2	1334.6	2541.2	3298.2	3483.0	3429.7	2877.1	1949.4	797.9	163.5
35°	152.8	415.8	1634.9	2907.3	3829.6	4064.1	3975.3	3294.7	2239.1	1002.3	197.3
37.5°	170.6	469.1	1910.3	3305.3	4426.7	4746.5	4679.0	3822.5	2534.1	1263.5	241.7
40°	172.4	533.1	2196.4	3824.2	5270.8	5841.2	5720.4	4728.8	3083.2	1599.4	311.0
42.5°	177.7	629.1	2567.9	4709.2	6928.8	7748.0	7611.2	6395.6	4328.9	2272.9	440.7
45°	202.6	810.3	3324.9	6363.7	9205.2	10406.5	10248.3	8718.3	6068.7	3539.9	751.7
47.5°	289.7	1219.1	4652.3	8149.6	11533.1	12491.0	12451.9	10548.6	7644.9	4838.9	1274.2
50°	465.6	1871.2	6162.9	9651.2	13015.2	13838.0	13740.2	11312.8	8544.1	5725.7	1633.1
52.5°	622.0	2495.0	7111.8	10203.9	13457.7	14438.6	14319.6	11591.8	8780.5	5986.9	1732.6
55°	661.1	2720.7	7394.4	10374.5	13750.9	14946.9	14774.5	11778.4	8810.7	5800.3	1567.4
57.5°	641.5	2507.4	7211.3	10541.5	14159.6	15469.3	15240.1	12142.7	8912.0	5484.0	1304.4
59°	607.8	2244.4	7097.6	10674.8	14385.3	15551.1	15336.0	12222.6	8979.5	5340.1	1144.4
60°	568.7	2066.7	7008.7	10761.9	14371.1	15423.1	15201.0	12185.3	9006.2	5215.7	1068.0
62.5°	438.9	1649.1	6880.8	10699.7	13473.7	14255.6	14129.4	11271.9	8615.2	4817.6	842.3
65°	341.2	1261.7	6411.6	9542.8	11465.6	11991.6	11952.5	9544.6	7250.4	4153.0	607.8
67.5°	270.1	920.5	5421.8	7728.4	9224.7	9972.9	9944.4	7748.0	5503.6	3173.8	437.2
70°	220.4	655.7	3717.6	5827.0	7378.4	8320.2	8279.3	6235.7	4078.4	2013.4	318.1
72.5°	186.6	419.4	2255.1	4392.9	6157.5	6696.0	6576.9	5030.9	2965.9	1096.4	252.3
75°	158.2	257.7	1117.8	2738.5	3667.9	3664.3	3545.2	2663.8	1592.2	536.7	200.8
77.5°	127.9	181.3	438.9	751.7	1156.9	1432.3	1409.2	943.6	476.3	156.4	124.4
80°	83.5	85.3	117.3	206.1	318.1	351.9	399.8	287.9	138.6	74.6	51.5
82.5°	37.3	40.9	53.3	67.5	67.5	62.2	55.1	40.9	30.2	24.9	12.4
85°	8.9	12.4	8.9	10.7	8.9	7.1	7.1	3.6	0.0	0.0	0.0
87.5°	1.8	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°	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
2.5°	14.2	14.2	14.2	12.4	12.4	12.4	10.7	10.7	10.7	8.9	8.9
5°	17.8	16.0	14.2	14.2	12.4	12.4	10.7	8.9	8.9	8.9	7.1
7.5°	19.5	17.8	16.0	14.2	12.4	10.7	10.7	8.9	7.1	7.1	7.1
10°	23.1	21.3	17.8	14.2	12.4	10.7	8.9	8.9	7.1	5.3	5.3
12.5°	26.7	23.1	19.5	16.0	12.4	10.7	8.9	8.9	7.1	5.3	3.6
15°	30.2	26.7	21.3	16.0	12.4	10.7	8.9	8.9	5.3	3.6	1.8
17.5°	33.8	28.4	21.3	17.8	12.4	10.7	8.9	7.1	3.6	1.8	0.0
20°	35.5	30.2	23.1	17.8	12.4	10.7	8.9	5.3	1.8	0.0	0.0
22.5°	39.1	33.8	24.9	17.8	12.4	8.9	5.3	1.8	0.0	0.0	0.0
25°	46.2	35.5	24.9	17.8	12.4	8.9	3.6	0.0	0.0	0.0	0.0
27.5°	51.5	39.1	24.9	17.8	12.4	7.1	1.8	0.0	0.0	0.0	0.0
30°	60.4	42.6	26.7	17.8	12.4	5.3	1.8	0.0	0.0	0.0	0.0
32.5°	74.6	46.2	26.7	17.8	10.7	5.3	0.0	0.0	0.0	0.0	0.0
35°	90.6	53.3	26.7	17.8	10.7	5.3	0.0	0.0	0.0	0.0	0.0
37.5°	92.4	56.9	26.7	17.8	10.7	3.6	0.0	0.0	0.0	0.0	0.0
40°	96.0	53.3	28.4	17.8	10.7	3.6	0.0	0.0	0.0	0.0	0.0
42.5°	110.2	49.8	30.2	17.8	10.7	3.6	0.0	0.0	0.0	0.0	0.0
45°	163.5	51.5	30.2	19.5	10.7	5.3	0.0	0.0	0.0	0.0	0.0
47.5°	284.3	53.3	28.4	19.5	10.7	5.3	0.0	0.0	0.0	0.0	0.0
50°	364.3	62.2	28.4	21.3	12.4	3.6	0.0	0.0	0.0	0.0	0.0
52.5°	387.4	72.9	28.4	23.1	16.0	1.8	0.0	0.0	0.0	0.0	0.0
55°	376.7	85.3	30.2	24.9	19.5	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	348.3	92.4	32.0	26.7	21.3	0.0	0.0	0.0	0.0	0.0	0.0
59°	*318.1*	*97.7*	*37.3*	*28.4*	*21.3*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*
60°	293.2	103.1	39.1	30.2	21.3	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	236.3	110.2	42.6	35.5	17.8	0.0	0.0	0.0	0.0	0.0	0.0
65°	206.1	115.5	44.4	39.1	16.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	188.4	119.1	48.0	40.9	14.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	174.2	117.3	51.5	39.1	12.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	158.2	112.0	62.2	35.5	10.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	142.2	101.3	67.5	32.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	103.1	85.3	62.2	28.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	44.4	46.2	44.4	21.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.9	10.7	8.9	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
2.5°	8.9	8.9	8.9	8.9	10.7	10.7	14.2	17.8	21.3	23.1	23.1
5°	7.1	7.1	7.1	7.1	7.1	8.9	10.7	14.2	19.5	21.3	21.3
7.5°	5.3	5.3	5.3	5.3	5.3	5.3	8.9	12.4	17.8	19.5	21.3
10°	5.3	3.6	3.6	1.8	1.8	3.6	5.3	10.7	16.0	17.8	19.5
12.5°	3.6	1.8	1.8	0.0	0.0	1.8	3.6	8.9	14.2	16.0	17.8
15°	1.8	0.0	0.0	0.0	0.0	0.0	1.8	7.1	12.4	14.2	17.8
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	10.7	14.2	16.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	8.9	12.4	14.2
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	7.1	10.7	12.4
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	7.1	8.9
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	5.3	7.1
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	5.3	7.1
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.6	5.3
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.6	5.3
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.6	3.6
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.6
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.6
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.6
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.6
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.6
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
59°	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*1.8*
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8
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: P1066745
CATALOG NUMBER: NVN-SA2A-730-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	318°	325°	335°	345°	355°	360°
0°	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
2.5°	24.9	24.9	23.1	21.3	21.3	21.3	23.1	24.9	24.9	24.9
5°	23.1	23.1	21.3	21.3	21.3	21.3	23.1	26.7	28.4	28.4
7.5°	23.1	23.1	21.3	21.3	21.3	21.3	23.1	26.7	28.4	30.2
10°	21.3	21.3	21.3	21.3	19.5	21.3	23.1	26.7	32.0	32.0
12.5°	21.3	21.3	21.3	21.3	19.5	21.3	24.9	28.4	33.8	35.5
15°	21.3	21.3	21.3	19.5	19.5	21.3	24.9	30.2	35.5	39.1
17.5°	19.5	21.3	21.3	19.5	19.5	21.3	24.9	30.2	39.1	44.4
20°	17.8	19.5	21.3	19.5	19.5	19.5	24.9	30.2	40.9	48.0
22.5°	16.0	17.8	19.5	19.5	17.8	19.5	24.9	32.0	44.4	53.3
25°	14.2	16.0	16.0	17.8	17.8	19.5	24.9	32.0	46.2	60.4
27.5°	10.7	12.4	14.2	16.0	16.0	19.5	24.9	33.8	49.8	74.6
30°	8.9	10.7	12.4	14.2	16.0	19.5	24.9	33.8	53.3	94.2
32.5°	8.9	10.7	12.4	14.2	16.0	17.8	24.9	35.5	58.6	117.3
35°	7.1	8.9	10.7	14.2	14.2	17.8	24.9	35.5	64.0	152.8
37.5°	7.1	8.9	10.7	14.2	14.2	17.8	24.9	35.5	78.2	170.6
40°	5.3	7.1	8.9	14.2	14.2	17.8	26.7	37.3	80.0	172.4
42.5°	5.3	7.1	8.9	12.4	14.2	17.8	26.7	37.3	74.6	177.7
45°	5.3	7.1	8.9	14.2	16.0	19.5	26.7	39.1	72.9	202.6
47.5°	5.3	7.1	8.9	14.2	17.8	19.5	26.7	39.1	74.6	289.7
50°	5.3	7.1	8.9	14.2	19.5	19.5	26.7	39.1	81.7	465.6
52.5°	3.6	5.3	7.1	12.4	16.0	21.3	28.4	37.3	87.1	622.0
55°	3.6	3.6	5.3	10.7	14.2	23.1	30.2	37.3	101.3	661.1
57.5°	3.6	3.6	5.3	8.9	12.4	24.9	32.0	37.3	117.3	641.5
59°	*3.6*	*3.6*	*3.6*	*8.9*	*10.7*	*24.9*	*32.0*	*39.1*	*119.1*	*607.8*
60°	3.6	3.6	3.6	7.1	10.7	24.9	33.8	40.9	120.8	568.7
62.5°	1.8	1.8	1.8	7.1	8.9	24.9	37.3	49.8	124.4	438.9
65°	3.6	3.6	1.8	5.3	8.9	21.3	42.6	53.3	126.2	341.2
67.5°	3.6	3.6	3.6	7.1	8.9	21.3	44.4	55.1	126.2	270.1
70°	3.6	3.6	3.6	7.1	10.7	21.3	44.4	56.9	124.4	220.4
72.5°	3.6	3.6	3.6	7.1	10.7	19.5	40.9	58.6	119.1	186.6
75°	3.6	3.6	3.6	5.3	8.9	17.8	39.1	64.0	108.4	158.2
77.5°	3.6	3.6	3.6	3.6	7.1	14.2	35.5	71.1	96.0	127.9
80°	5.3	3.6	3.6	3.6	5.3	12.4	33.8	69.3	80.0	83.5
82.5°	5.3	3.6	3.6	1.8	3.6	8.9	26.7	53.3	40.9	37.3
85°	3.6	3.6	3.6	1.8	1.8	5.3	12.4	16.0	12.4	8.9
87.5°	3.6	3.6	3.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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

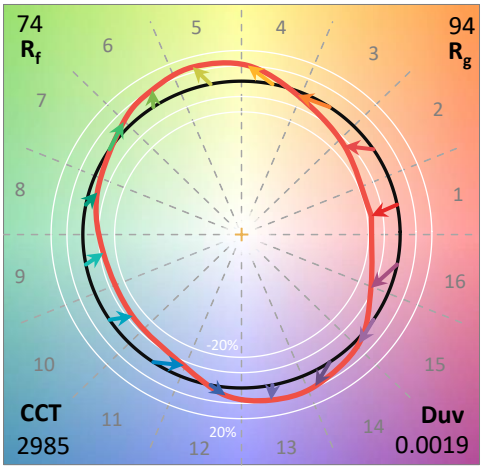
Test Information

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

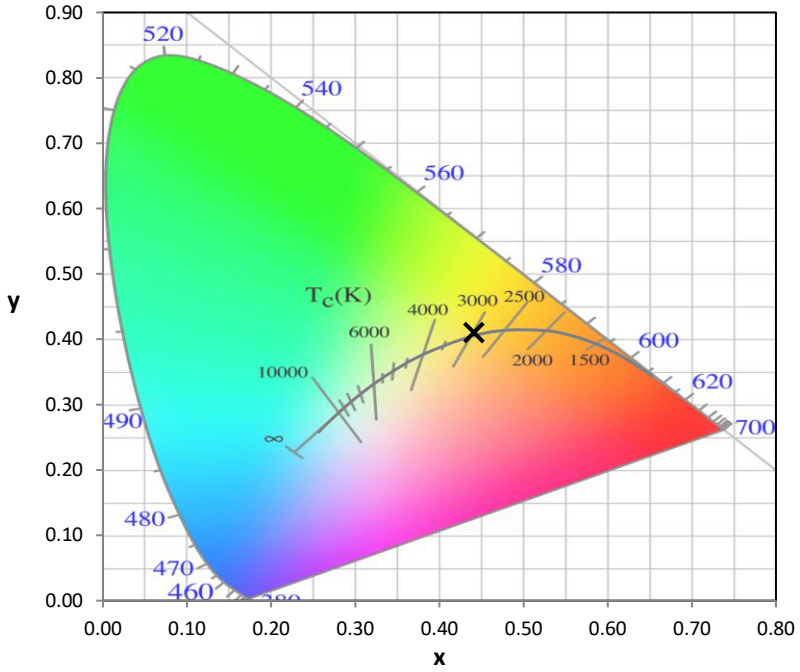
Stabilization Time:	36M
Operation Time:	1H 36M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-4

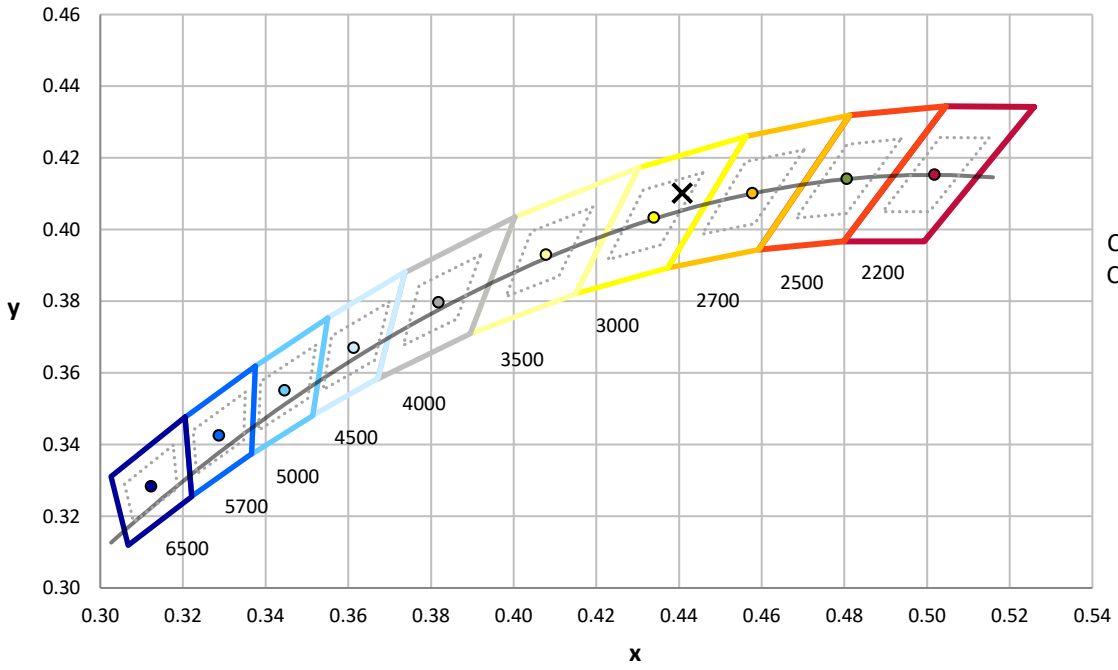
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

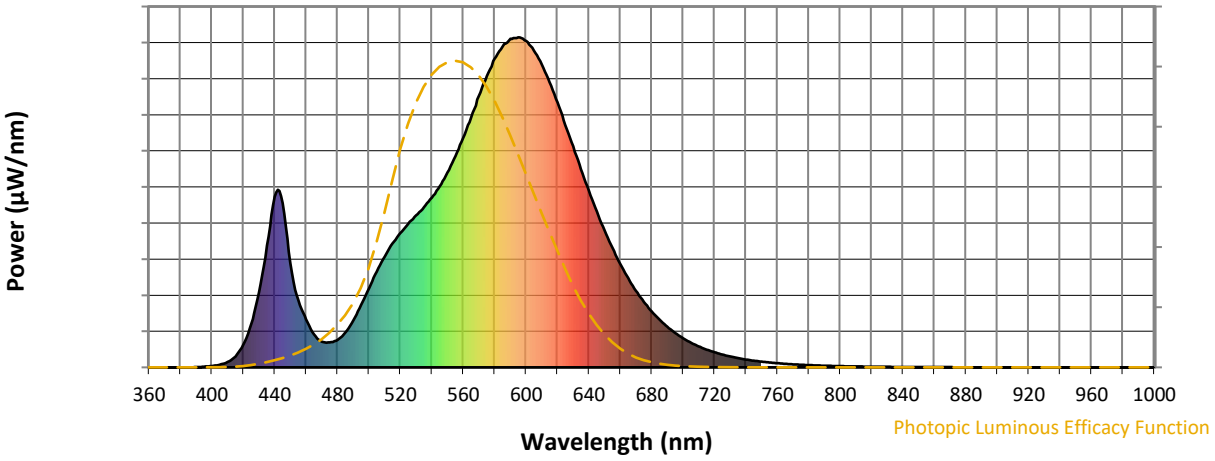


CCT = 2985K
CIE x = 0.4408
CIE y = 0.4101
Duv = 0.0019

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

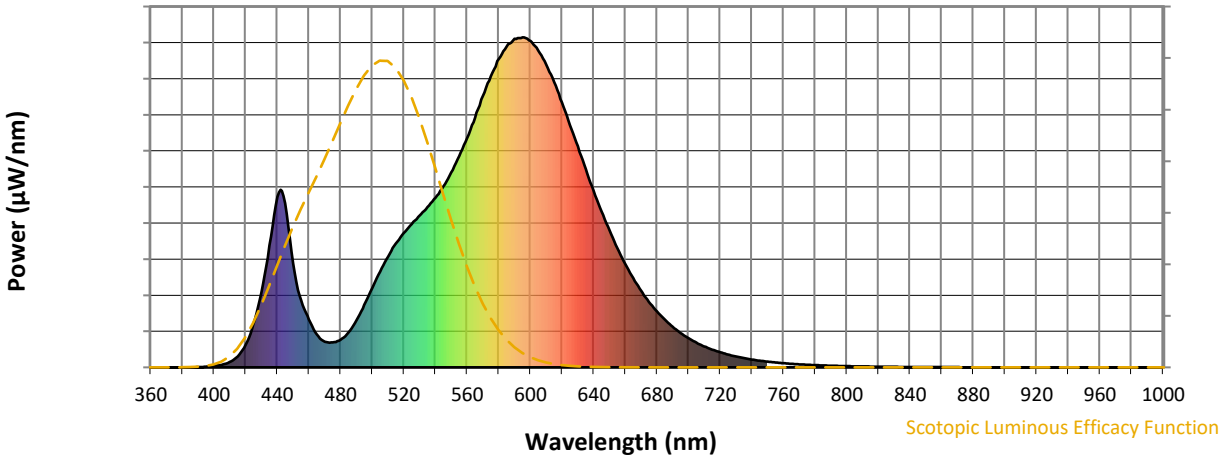


Photopic Lumens: NR

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

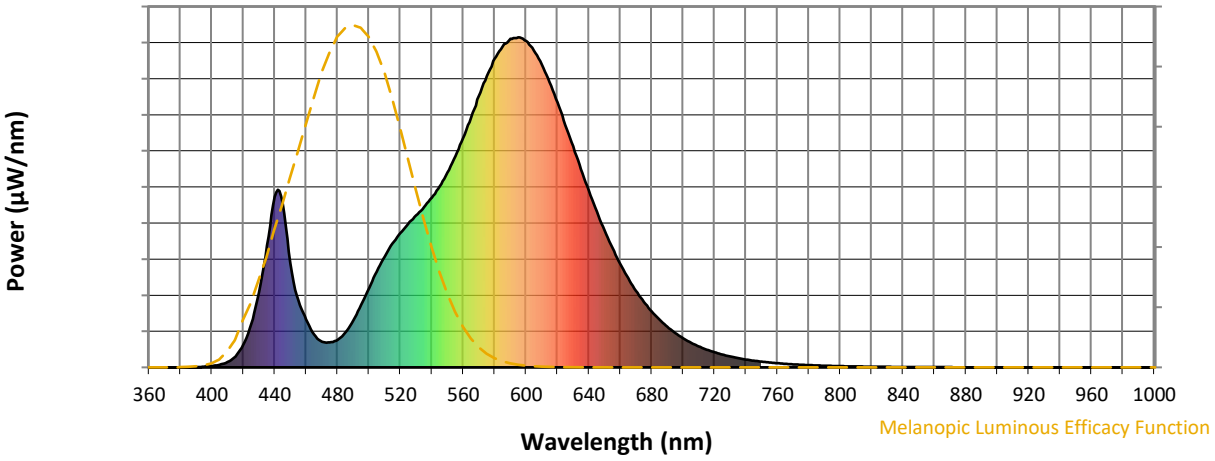


Scotopic Lumens: NR **S/P: 1.19**

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			

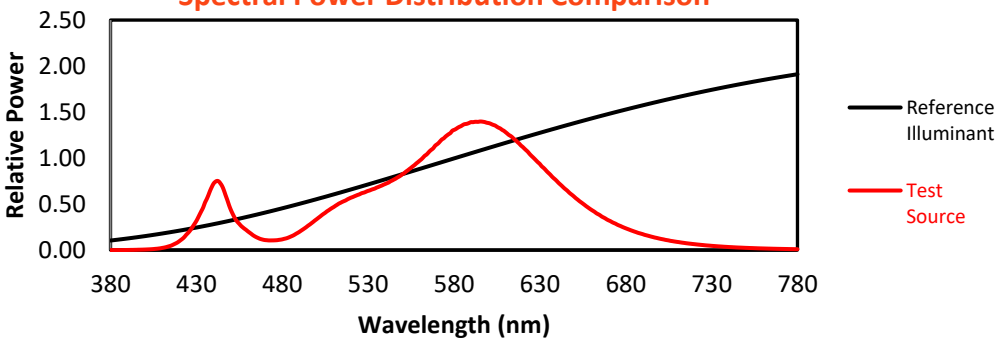
REPORT NUMBER: SP1-2407-184-4

TM-30-18

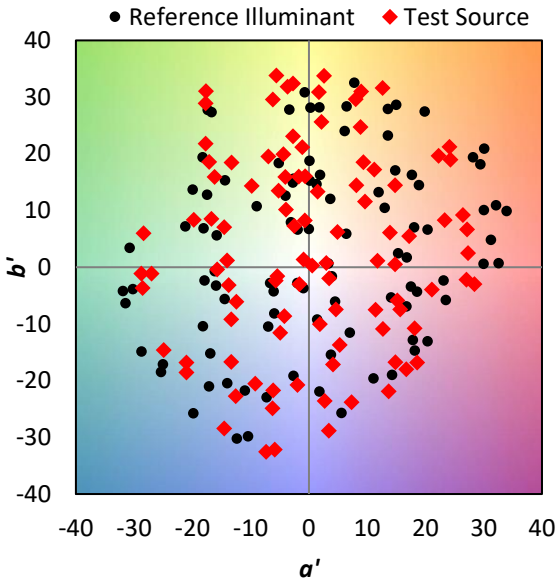
Summary

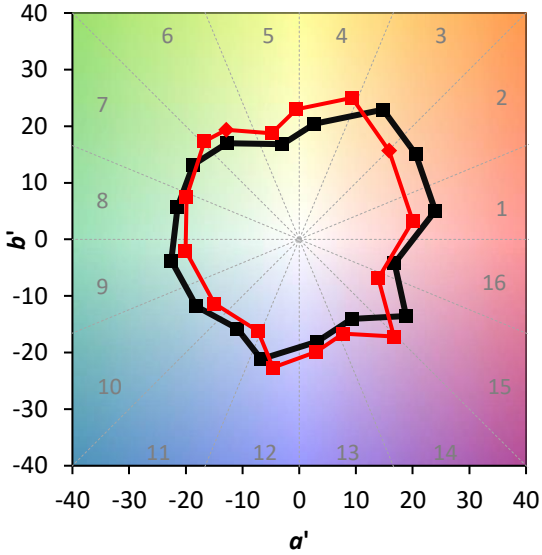
R_f = 73.8
R_g = 94.4
CIE R_a = 70.8
R_9 = -43.2

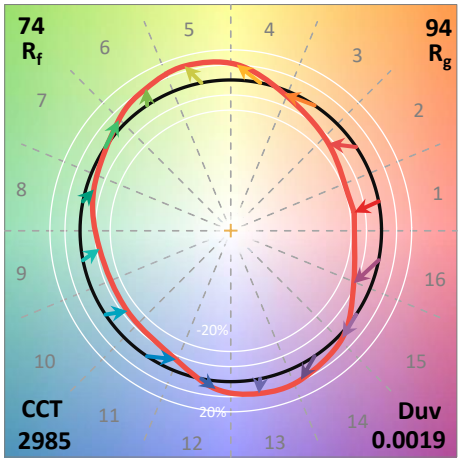
Spectral Power Distribution Comparison

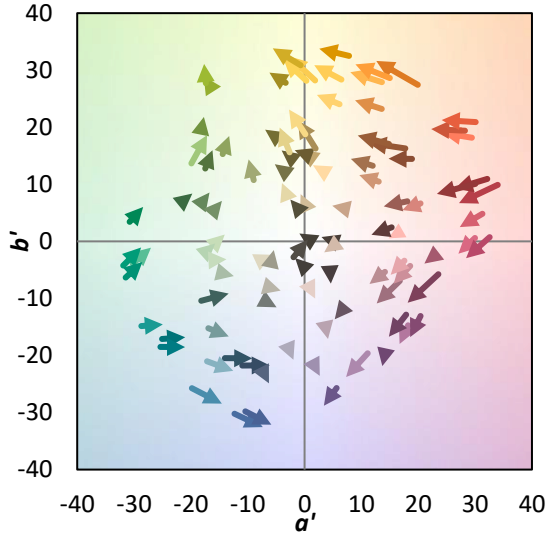


Color Vector Graphics







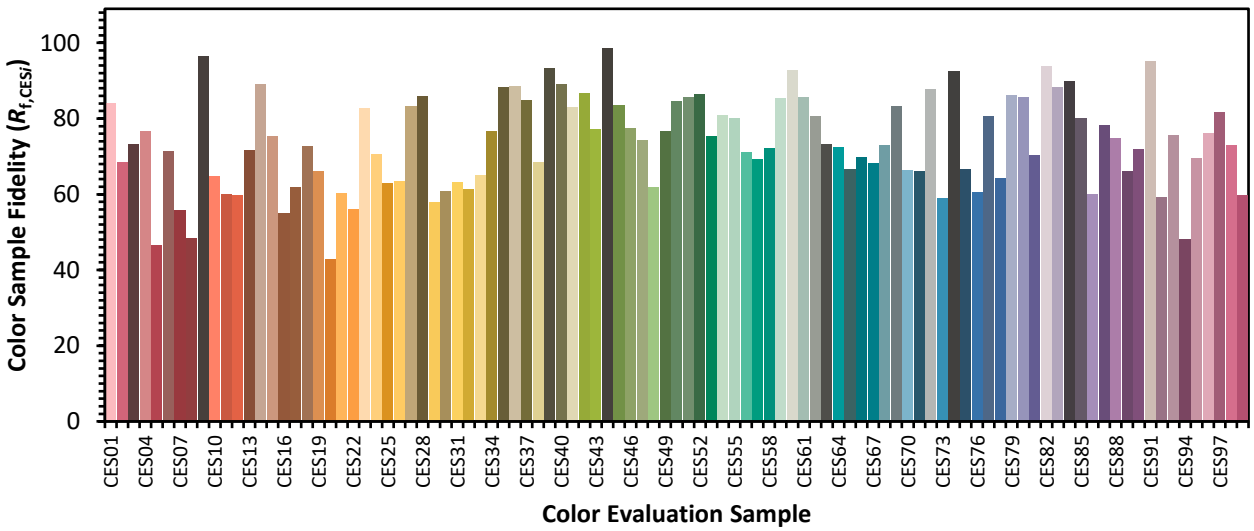


REPORT NUMBER: SP1-2407-184-4

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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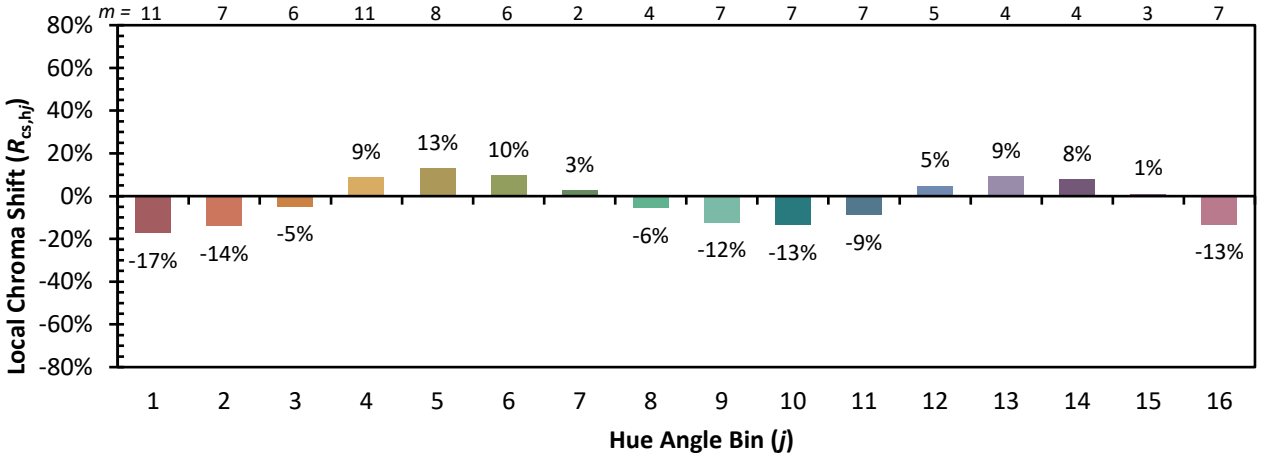
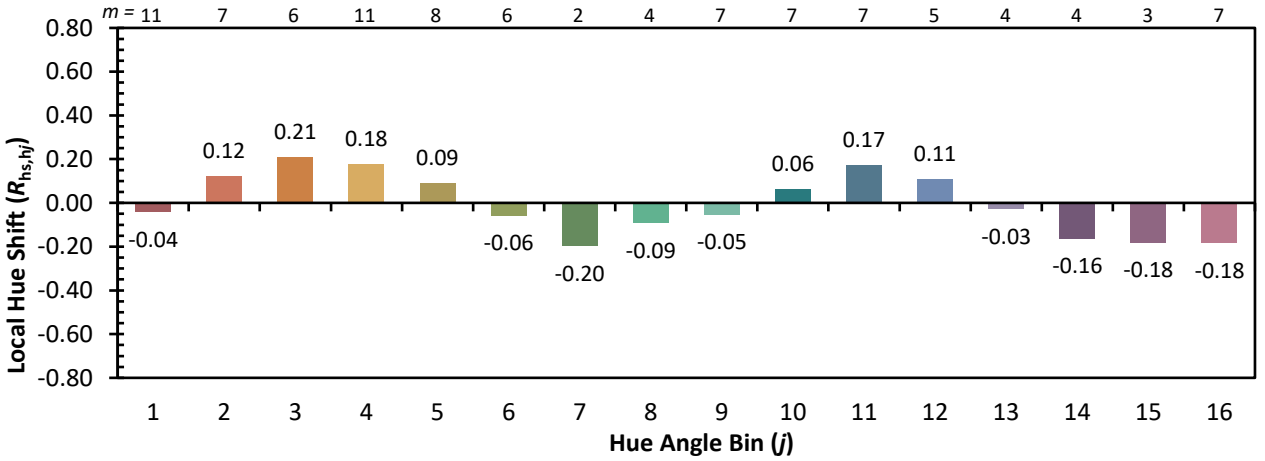
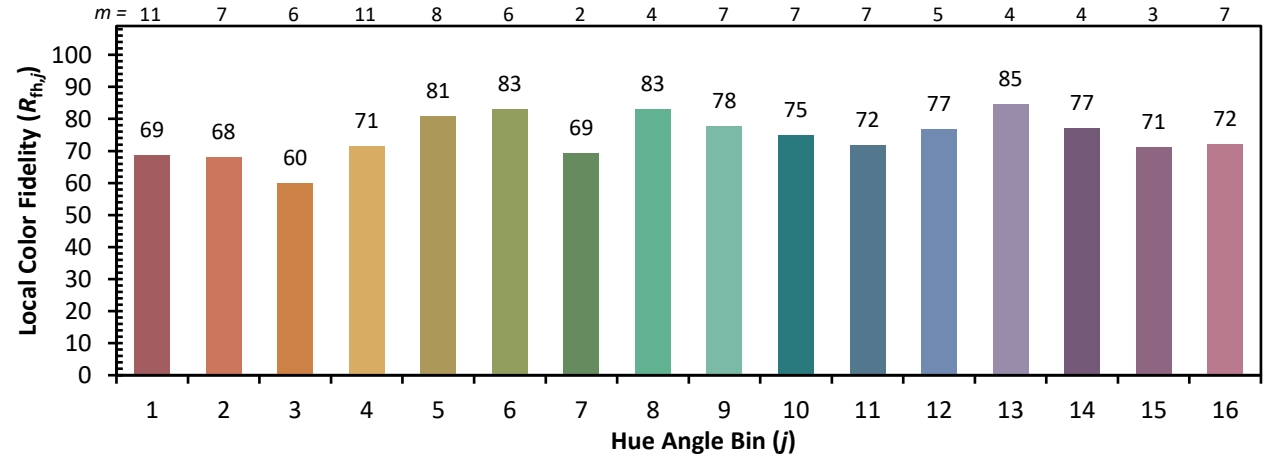
Color Rendition by Hue-Angle Bin







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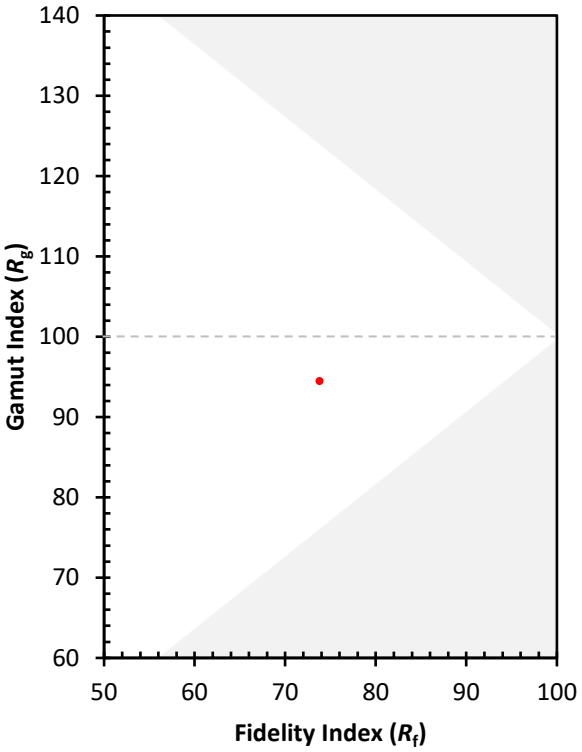
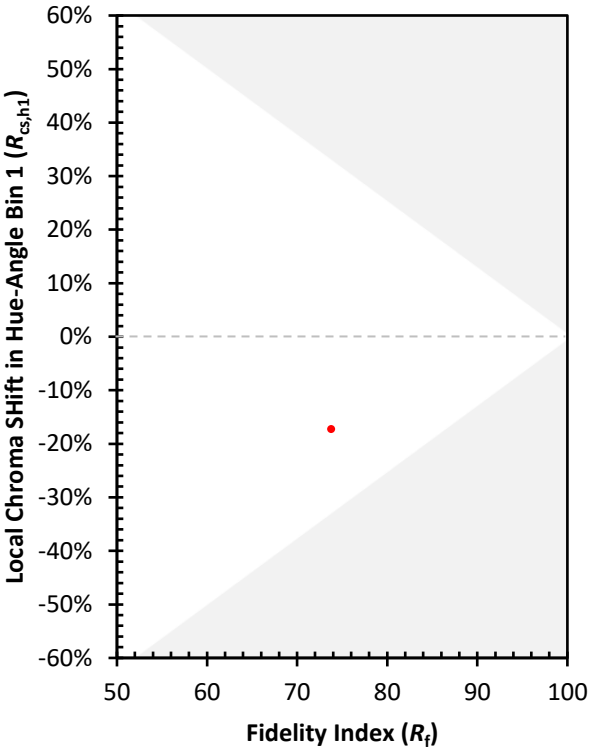
Measure Comparisons





(END OF REPORT)