

Signify Classified - Internal
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: P1067950

Luminaire Tested: **NAV-SA3B-730-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067950
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA3B-730-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 3xLight Square PACKAGE
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10549 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 106.2
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



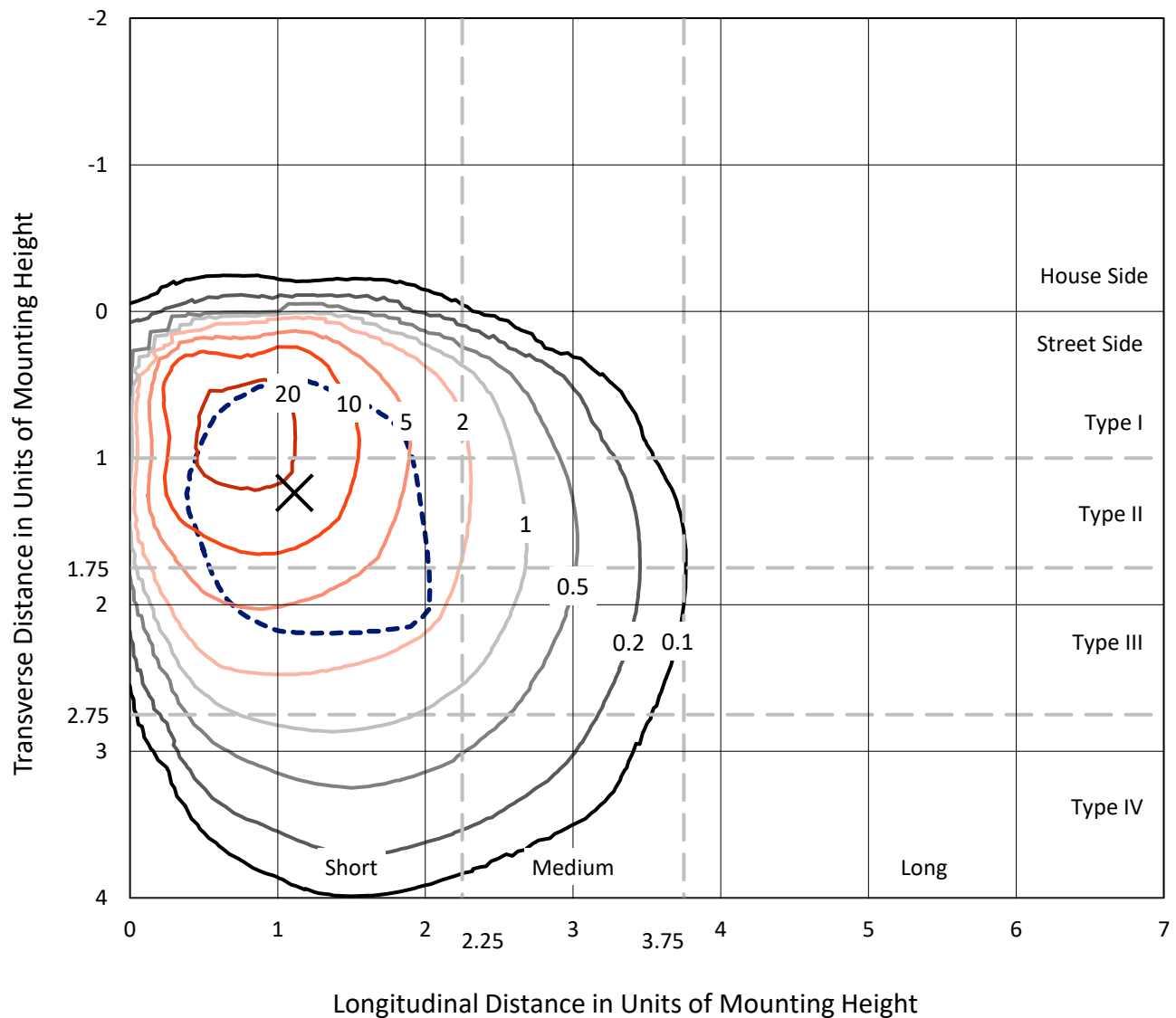
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

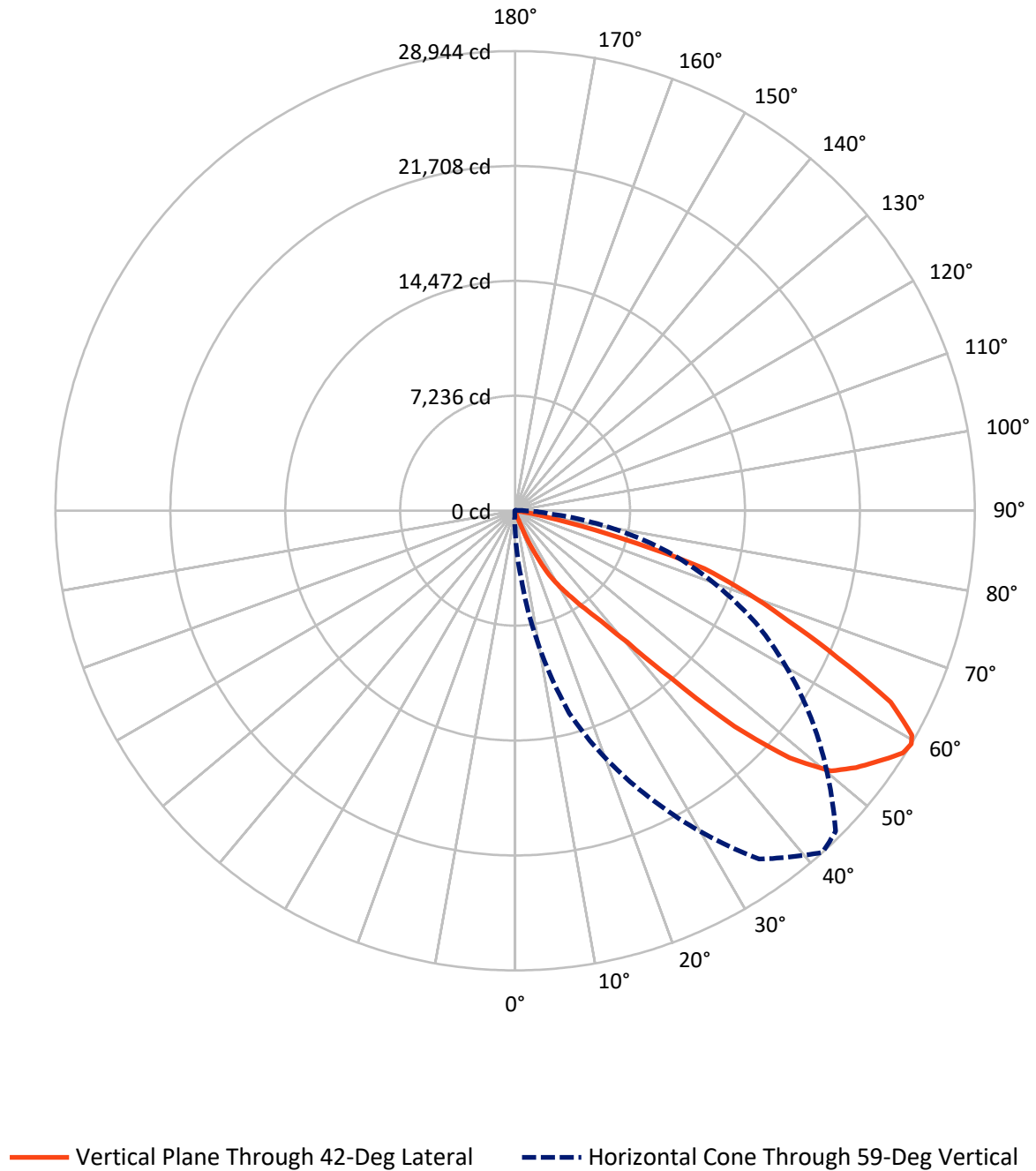


Based on 15 foot mounting height. Maximum calculated value = 31.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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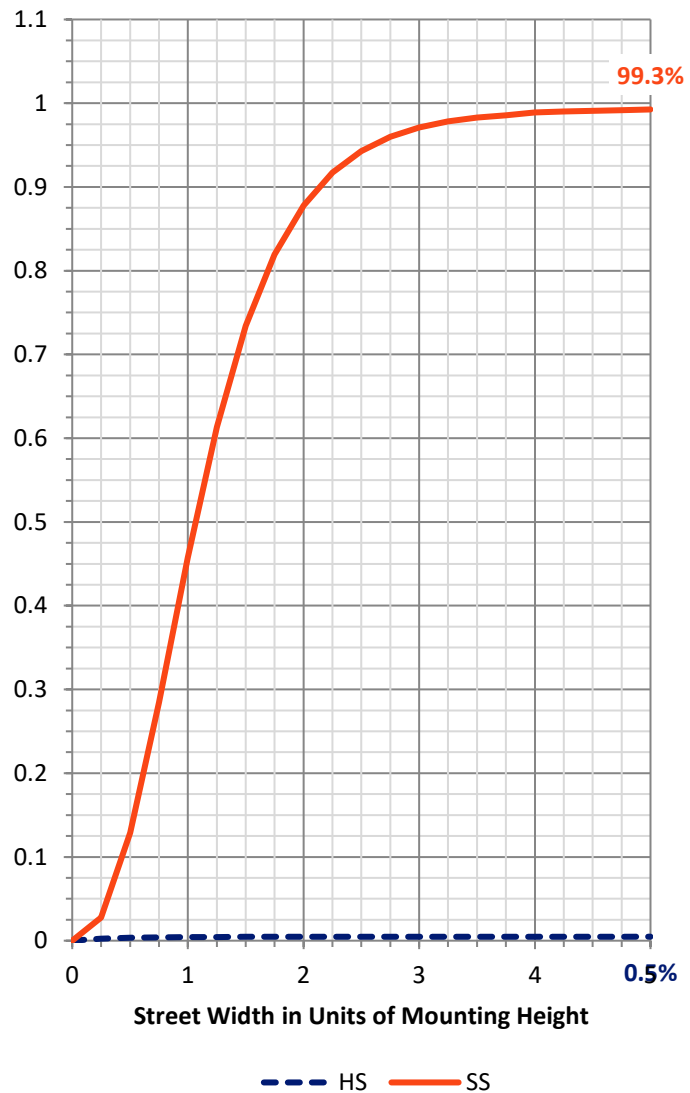
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	50.8	0.0	50.8
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	10498.2	0.0	10498.2
	% Fixture	99.5	0.0	99.5
Total	Lumens	10549.0	0.0	10549.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.0
10°-20°	15.4	0.1
20°-30°	196.8	1.9
30°-40°	663.4	6.3
40°-50°	2003.8	19.0
50°-60°	3537.1	33.5
60°-70°	3114.5	29.5
70°-80°	991.3	9.4
80°-90°	23.7	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°	10549.0	100.0
0°-180°	10549.0	100.0



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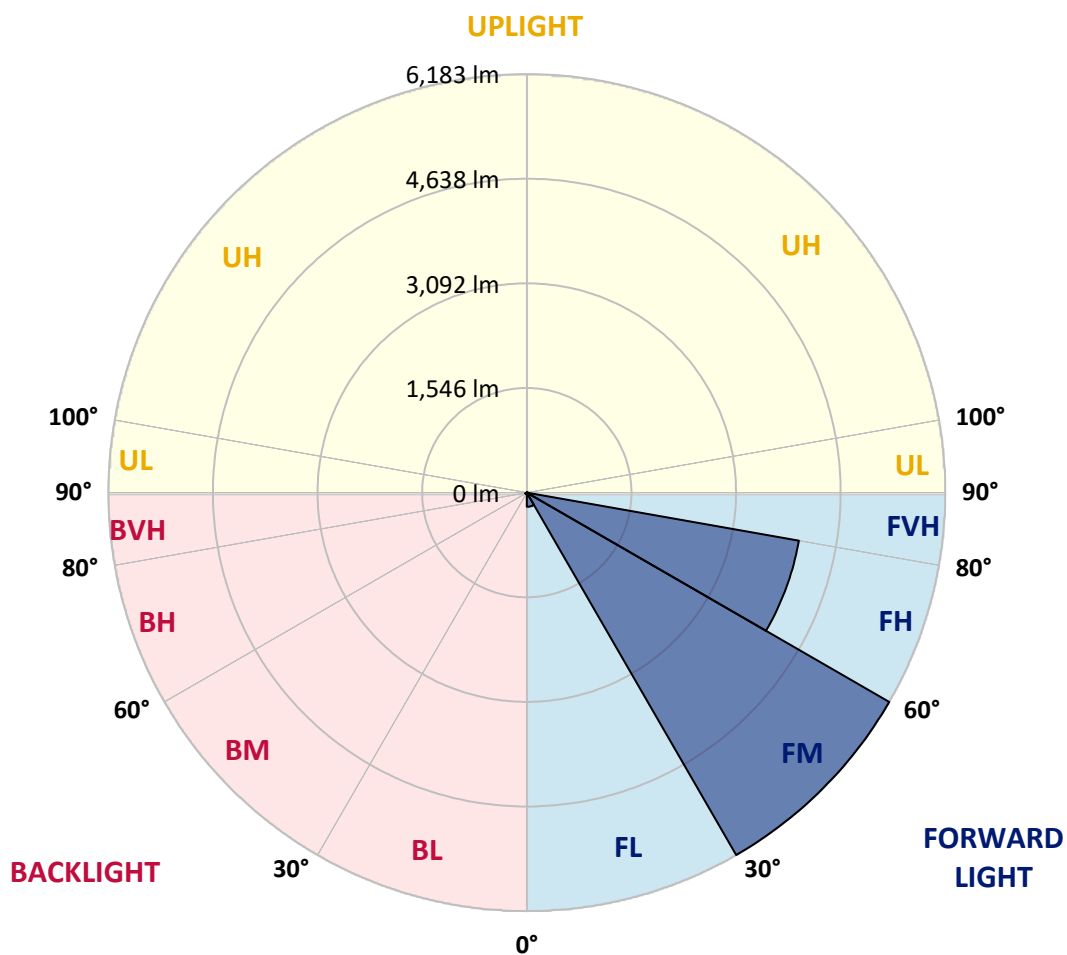
CATALOG NUMBER: NAV-SA3B-730-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	209.6	2.0			
FM	(30°-60°)	6183.5	58.6			
FH	(60°-80°)	4082.6	38.7			G2/5000
FVH	(80°-90°)	22.6	0.2			G1/100
BL	(0°-30°)	5.7	0.1	B0/110		
BM	(30°-60°)	20.8	0.2	B0/220		
BH	(60°-80°)	23.3	0.2	B0/110		G0/110
BVH	(80°-90°)	1.1	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°	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8
2.5°	46.3	46.3	43.0	39.7	36.4	33.1	33.1	33.1	29.8	29.8	26.5
5°	52.9	52.9	49.6	46.3	46.3	43.0	43.0	39.7	36.4	36.4	33.1
7.5°	56.2	56.2	56.2	56.2	52.9	52.9	52.9	49.6	46.3	43.0	39.7
10°	59.5	62.8	66.1	66.1	66.1	66.1	66.1	62.8	56.2	52.9	46.3
12.5°	66.1	69.5	76.1	82.7	82.7	86.0	82.7	79.4	72.8	62.8	52.9
15°	72.8	79.4	89.3	102.5	115.8	119.1	119.1	109.1	95.9	76.1	62.8
17.5°	82.7	92.6	119.1	162.1	208.4	244.8	244.8	218.3	152.1	99.2	72.8
20°	89.3	109.1	191.8	390.3	595.3	747.5	717.7	635.0	340.7	155.5	79.4
22.5°	99.2	138.9	406.8	1025.3	1587.6	1865.4	1799.3	1366.0	764.0	277.8	95.9
25°	112.5	201.8	807.0	1921.6	2950.3	3251.3	3208.3	2550.1	1392.4	466.4	122.4
27.5°	138.9	297.7	1293.2	2913.9	4352.6	4610.6	4594.1	3734.1	2225.9	750.8	158.8
30°	175.3	433.3	1918.3	3959.1	5282.0	5543.3	5460.7	4600.7	3003.2	1147.7	205.1
32.5°	218.3	605.3	2483.9	4729.7	6138.7	6482.7	6383.4	5354.8	3628.3	1485.1	304.3
35°	284.4	774.0	3042.9	5411.0	7127.6	7564.2	7398.8	6132.1	4167.4	1865.4	367.1
37.5°	317.5	873.2	3555.5	6151.9	8238.9	8834.3	8708.6	7114.4	4716.5	2351.6	449.8
40°	320.8	992.2	4088.0	7117.7	9810.0	10871.7	10646.8	8801.2	5738.5	2976.7	578.8
42.5°	330.7	1170.8	4779.3	8764.8	12895.9	14420.6	14165.9	11903.6	8057.0	4230.3	820.3
45°	377.1	1508.2	6188.3	11844.1	17132.8	19368.6	19074.2	16226.5	11295.0	6588.5	1399.1
47.5°	539.1	2268.9	8659.0	15168.1	21465.6	23248.3	23175.5	19633.2	14228.8	9006.3	2371.5
50°	866.6	3482.8	11470.3	17962.9	24224.0	25755.4	25573.4	21055.4	15902.4	10656.7	3039.6
52.5°	1157.6	4643.7	13236.5	18991.6	25047.6	26873.3	26651.7	21574.7	16342.3	11142.9	3224.8
55°	1230.4	5063.8	13762.4	19309.1	25593.3	27819.2	27498.4	21922.0	16398.5	10795.6	2917.2
57.5°	1194.0	4666.9	13421.8	19620.0	26354.0	28791.6	28365.0	22600.0	16587.0	10206.9	2427.7
59°	1131.2	4177.3	13210.1	19868.0	26774.1	28943.8	28543.6	22748.9	16712.7	9939.0	2130.0
60°	1058.4	3846.6	13044.7	20030.1	26747.6	28705.6	28292.2	22679.4	16762.3	9707.5	1987.8
62.5°	816.9	3069.3	12806.6	19914.3	25077.3	26532.6	26297.8	20979.4	16034.7	8966.6	1567.7
65°	635.0	2348.3	11933.4	17761.2	21339.9	22318.9	22246.1	17764.5	13494.5	7729.6	1131.2
67.5°	502.7	1713.3	10091.1	14384.2	17169.1	18561.6	18508.7	14420.6	10243.3	5907.2	813.6
70°	410.1	1220.5	6919.3	10845.2	13732.7	15485.6	15409.6	11606.0	7590.7	3747.4	592.0
72.5°	347.3	780.6	4197.2	8176.1	11460.4	12462.6	12241.0	9363.5	5520.2	2040.7	469.7
75°	294.4	479.6	2080.4	5096.8	6826.6	6820.0	6598.4	4957.9	2963.5	998.9	373.7
77.5°	238.1	337.4	816.9	1399.1	2153.2	2665.8	2622.8	1756.3	886.4	291.1	231.5
80°	155.5	158.8	218.3	383.7	592.0	654.9	744.2	535.8	258.0	138.9	95.9
82.5°	69.5	76.1	99.2	125.7	125.7	115.8	102.5	76.1	56.2	46.3	23.2
85°	16.5	23.2	16.5	19.8	16.5	13.2	13.2	6.6	0.0	0.0	0.0
87.5°	3.3	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°	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8
2.5°	26.5	26.5	26.5	23.2	23.2	23.2	19.8	19.8	19.8	16.5	16.5
5°	33.1	29.8	26.5	26.5	23.2	23.2	19.8	16.5	16.5	16.5	13.2
7.5°	36.4	33.1	29.8	26.5	23.2	19.8	19.8	16.5	13.2	13.2	13.2
10°	43.0	39.7	33.1	26.5	23.2	19.8	16.5	16.5	13.2	9.9	9.9
12.5°	49.6	43.0	36.4	29.8	23.2	19.8	16.5	16.5	13.2	9.9	6.6
15°	56.2	49.6	39.7	29.8	23.2	19.8	16.5	16.5	9.9	6.6	3.3
17.5°	62.8	52.9	39.7	33.1	23.2	19.8	16.5	13.2	6.6	3.3	0.0
20°	66.1	56.2	43.0	33.1	23.2	19.8	16.5	9.9	3.3	0.0	0.0
22.5°	72.8	62.8	46.3	33.1	23.2	16.5	9.9	3.3	0.0	0.0	0.0
25°	86.0	66.1	46.3	33.1	23.2	16.5	6.6	0.0	0.0	0.0	0.0
27.5°	95.9	72.8	46.3	33.1	23.2	13.2	3.3	0.0	0.0	0.0	0.0
30°	112.5	79.4	49.6	33.1	23.2	9.9	3.3	0.0	0.0	0.0	0.0
32.5°	138.9	86.0	49.6	33.1	19.8	9.9	0.0	0.0	0.0	0.0	0.0
35°	168.7	99.2	49.6	33.1	19.8	9.9	0.0	0.0	0.0	0.0	0.0
37.5°	172.0	105.8	49.6	33.1	19.8	6.6	0.0	0.0	0.0	0.0	0.0
40°	178.6	99.2	52.9	33.1	19.8	6.6	0.0	0.0	0.0	0.0	0.0
42.5°	205.1	92.6	56.2	33.1	19.8	6.6	0.0	0.0	0.0	0.0	0.0
45°	304.3	95.9	56.2	36.4	19.8	9.9	0.0	0.0	0.0	0.0	0.0
47.5°	529.2	99.2	52.9	36.4	19.8	9.9	0.0	0.0	0.0	0.0	0.0
50°	678.0	115.8	52.9	39.7	23.2	6.6	0.0	0.0	0.0	0.0	0.0
52.5°	721.0	135.6	52.9	43.0	29.8	3.3	0.0	0.0	0.0	0.0	0.0
55°	701.2	158.8	56.2	46.3	36.4	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	648.3	172.0	59.5	49.6	39.7	0.0	0.0	0.0	0.0	0.0	0.0
59°	592.0	181.9	69.5	52.9	39.7	0.0	0.0	0.0	0.0	0.0	0.0
60°	545.7	191.8	72.8	56.2	39.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	439.9	205.1	79.4	66.1	33.1	0.0	0.0	0.0	0.0	0.0	0.0
65°	383.7	215.0	82.7	72.8	29.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	350.6	221.6	89.3	76.1	26.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	324.1	218.3	95.9	72.8	23.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	294.4	208.4	115.8	66.1	19.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	264.6	188.5	125.7	59.5	13.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	191.8	158.8	115.8	52.9	6.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	82.7	86.0	82.7	39.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.5	19.8	16.5	9.9	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°	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8
2.5°	16.5	16.5	16.5	16.5	19.8	19.8	26.5	33.1	39.7	43.0	43.0
5°	13.2	13.2	13.2	13.2	13.2	16.5	19.8	26.5	36.4	39.7	39.7
7.5°	9.9	9.9	9.9	9.9	9.9	9.9	16.5	23.2	33.1	36.4	39.7
10°	9.9	6.6	6.6	3.3	3.3	6.6	9.9	19.8	29.8	33.1	36.4
12.5°	6.6	3.3	3.3	0.0	0.0	3.3	6.6	16.5	26.5	29.8	33.1
15°	3.3	0.0	0.0	0.0	0.0	0.0	3.3	13.2	23.2	26.5	33.1
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	19.8	26.5	29.8
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	16.5	23.2	26.5
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	13.2	19.8	23.2
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	13.2	16.5
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	9.9	13.2
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	9.9	13.2
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.6	9.9
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.6	9.9
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.6	6.6
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.6
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.6
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.6
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.6
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.6
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3
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):

	285°	295°	305°	315°	318°	325°	335°	345°	355°	360°
0°	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8
2.5°	46.3	46.3	43.0	39.7	39.7	39.7	43.0	46.3	46.3	46.3
5°	43.0	43.0	39.7	39.7	39.7	39.7	43.0	49.6	52.9	52.9
7.5°	43.0	43.0	39.7	39.7	39.7	39.7	43.0	49.6	52.9	56.2
10°	39.7	39.7	39.7	39.7	36.4	39.7	43.0	49.6	59.5	59.5
12.5°	39.7	39.7	39.7	39.7	36.4	39.7	46.3	52.9	62.8	66.1
15°	39.7	39.7	39.7	36.4	36.4	39.7	46.3	56.2	66.1	72.8
17.5°	36.4	39.7	39.7	36.4	36.4	39.7	46.3	56.2	72.8	82.7
20°	33.1	36.4	39.7	36.4	36.4	36.4	46.3	56.2	76.1	89.3
22.5°	29.8	33.1	36.4	36.4	33.1	36.4	46.3	59.5	82.7	99.2
25°	26.5	29.8	29.8	33.1	33.1	36.4	46.3	59.5	86.0	112.5
27.5°	19.8	23.2	26.5	29.8	29.8	36.4	46.3	62.8	92.6	138.9
30°	16.5	19.8	23.2	26.5	29.8	36.4	46.3	62.8	99.2	175.3
32.5°	16.5	19.8	23.2	26.5	29.8	33.1	46.3	66.1	109.1	218.3
35°	13.2	16.5	19.8	26.5	26.5	33.1	46.3	66.1	119.1	284.4
37.5°	13.2	16.5	19.8	26.5	26.5	33.1	46.3	66.1	145.5	317.5
40°	9.9	13.2	16.5	26.5	26.5	33.1	49.6	69.5	148.8	320.8
42.5°	9.9	13.2	16.5	23.2	26.5	33.1	49.6	69.5	138.9	330.7
45°	9.9	13.2	16.5	26.5	29.8	36.4	49.6	72.8	135.6	377.1
47.5°	9.9	13.2	16.5	26.5	33.1	36.4	49.6	72.8	138.9	539.1
50°	9.9	13.2	16.5	26.5	36.4	36.4	49.6	72.8	152.1	866.6
52.5°	6.6	9.9	13.2	23.2	29.8	39.7	52.9	69.5	162.1	1157.6
55°	6.6	6.6	9.9	19.8	26.5	43.0	56.2	69.5	188.5	1230.4
57.5°	6.6	6.6	9.9	16.5	23.2	46.3	59.5	69.5	218.3	1194.0
59°	6.6	6.6	6.6	16.5	19.8	46.3	59.5	72.8	221.6	1131.2
60°	6.6	6.6	6.6	13.2	19.8	46.3	62.8	76.1	224.9	1058.4
62.5°	3.3	3.3	3.3	13.2	16.5	46.3	69.5	92.6	231.5	816.9
65°	6.6	6.6	3.3	9.9	16.5	39.7	79.4	99.2	234.8	635.0
67.5°	6.6	6.6	6.6	13.2	16.5	39.7	82.7	102.5	234.8	502.7
70°	6.6	6.6	6.6	13.2	19.8	39.7	82.7	105.8	231.5	410.1
72.5°	6.6	6.6	6.6	13.2	19.8	36.4	76.1	109.1	221.6	347.3
75°	6.6	6.6	6.6	9.9	16.5	33.1	72.8	119.1	201.8	294.4
77.5°	6.6	6.6	6.6	6.6	13.2	26.5	66.1	132.3	178.6	238.1
80°	9.9	6.6	6.6	6.6	9.9	23.2	62.8	129.0	148.8	155.5
82.5°	9.9	6.6	6.6	3.3	6.6	16.5	49.6	99.2	76.1	69.5
85°	6.6	6.6	6.6	3.3	3.3	9.9	23.2	29.8	23.2	16.5
87.5°	6.6	6.6	6.6	3.3	3.3	3.3	3.3	3.3	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

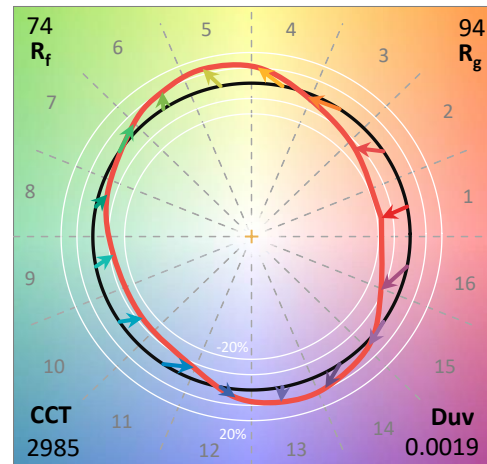
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

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	CRI (Ra):	70.8		
CIE u':	0.2504	R1:	66.3	R9:	-43.2
CIE v':	0.5243	R2:	80.6	R10:	57.6
Duv:	0.0019	R3:	94.5	R11:	64.8
CIE x:	0.4408	R4:	68.2	R12:	53.5
CIE y:	0.4101	R5:	66.5	R13:	68.7
CIE z:	0.1491	R6:	74.7	R14:	97.0
Peak Wavelength (nm):	595	R7:	76.2	R15:	56.4
Dominant Wavelength (nm):	582	R8:	39.6		
Purity:	55.41818				
Rf:	73.8				
Rg:	94.4				



Test Conditions

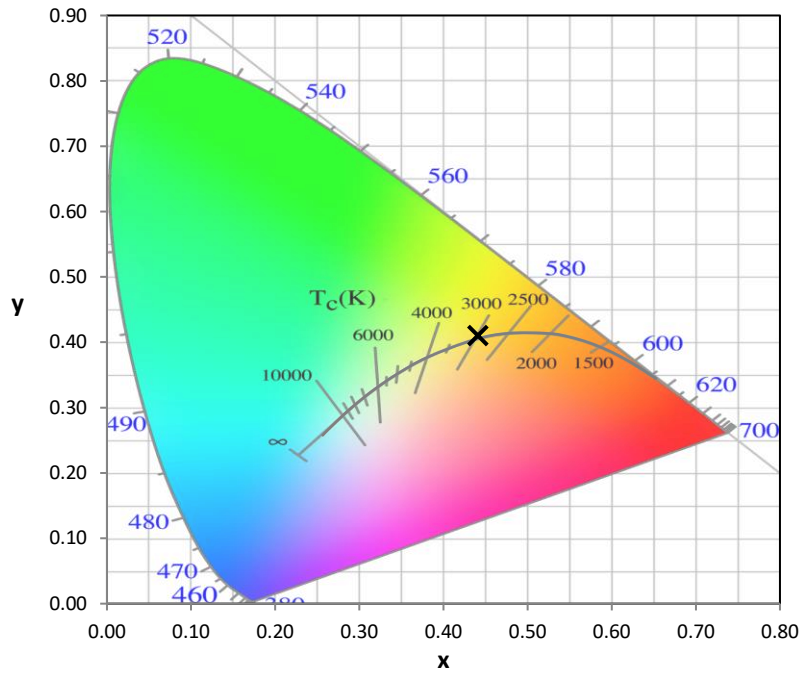
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

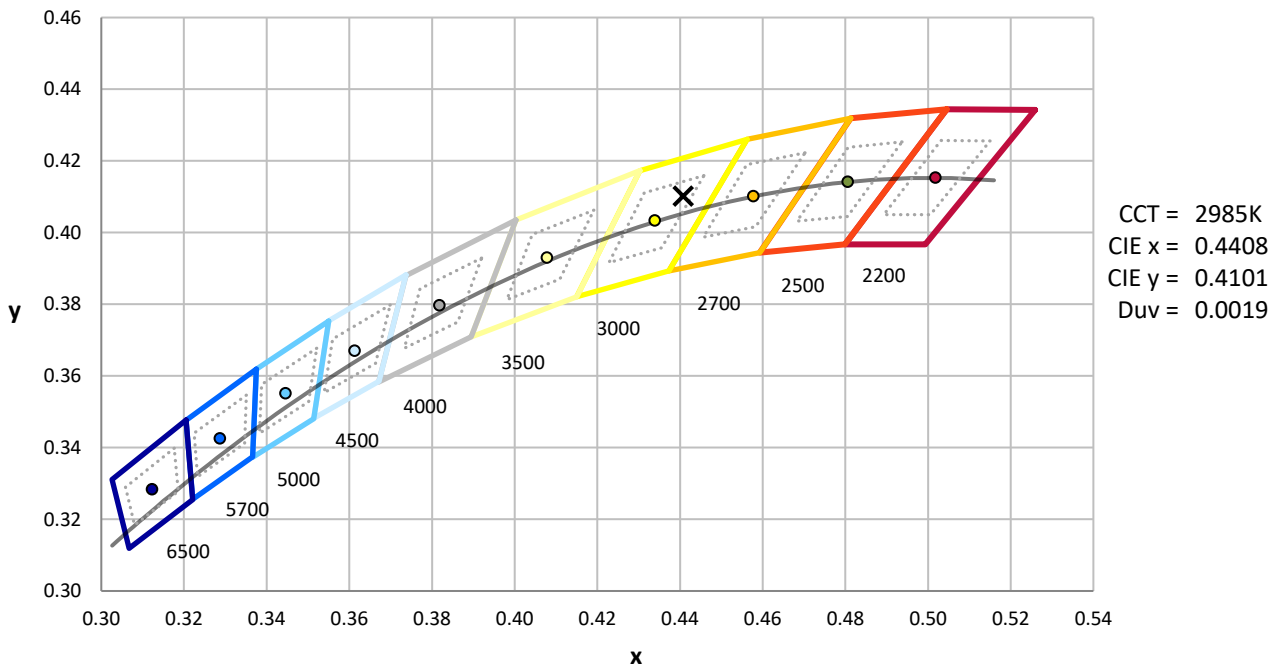
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



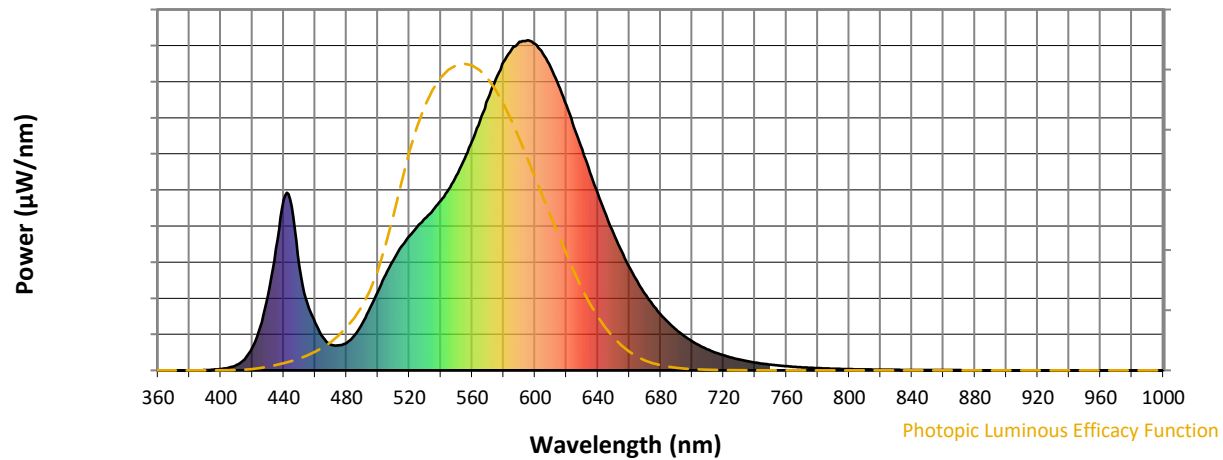
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

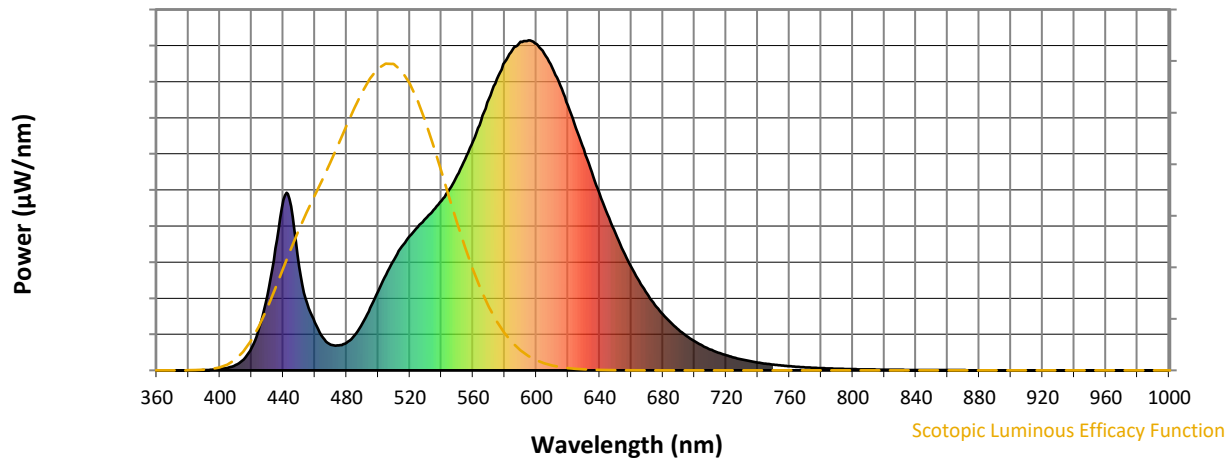


Photopic Lumens: NR

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



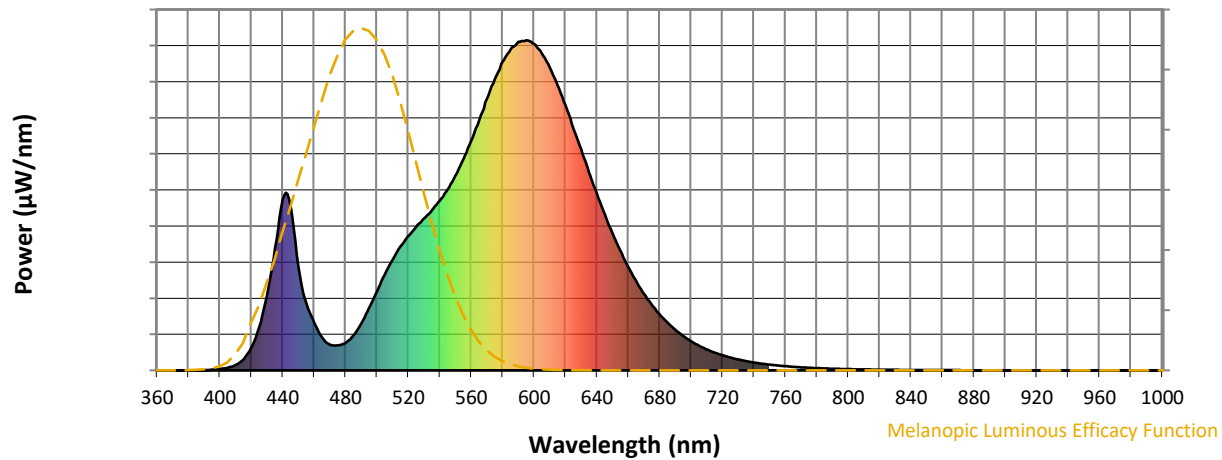
Scotopic Lumens: NR

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			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.13

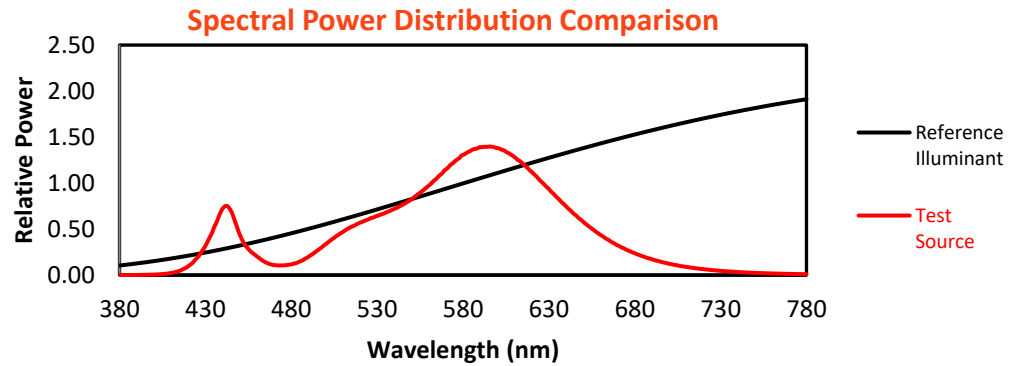
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	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

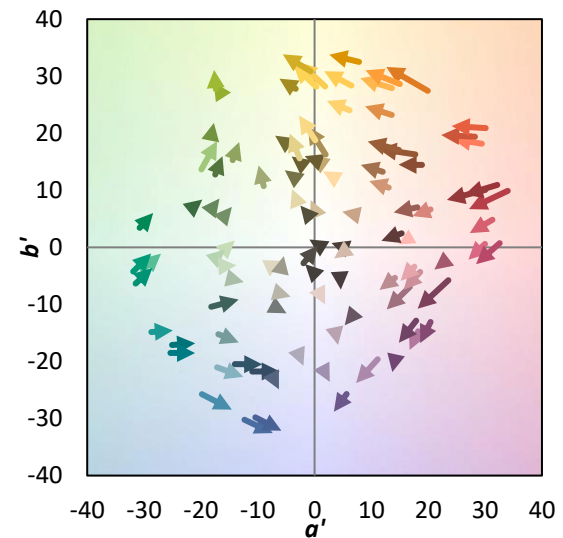
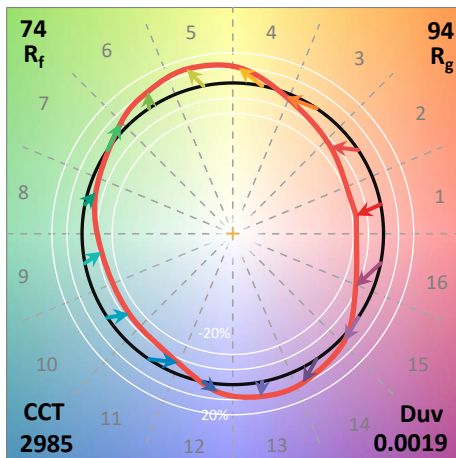
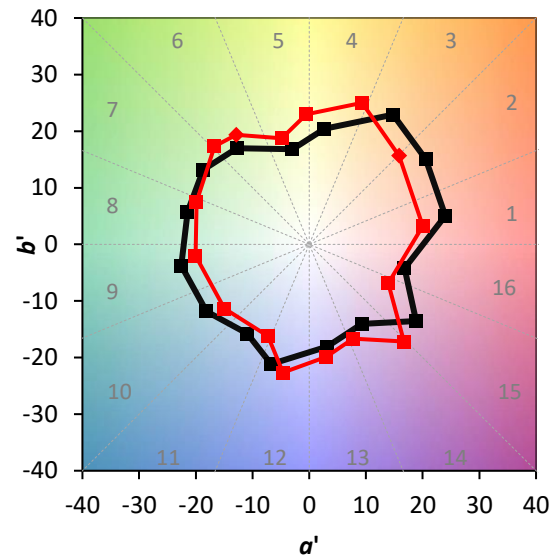
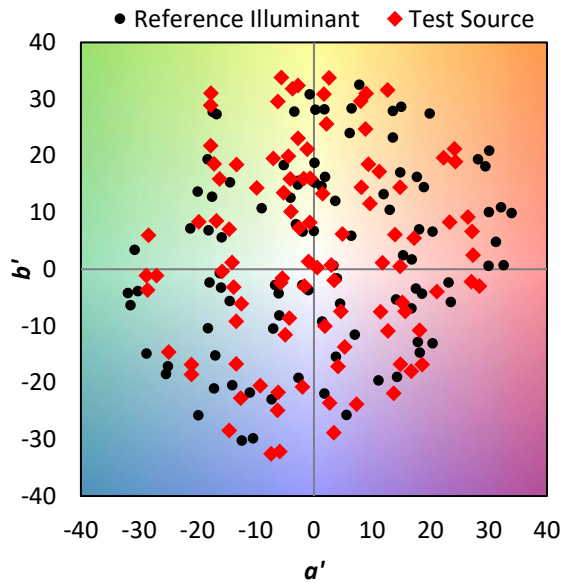
TM-30-18

Summary

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

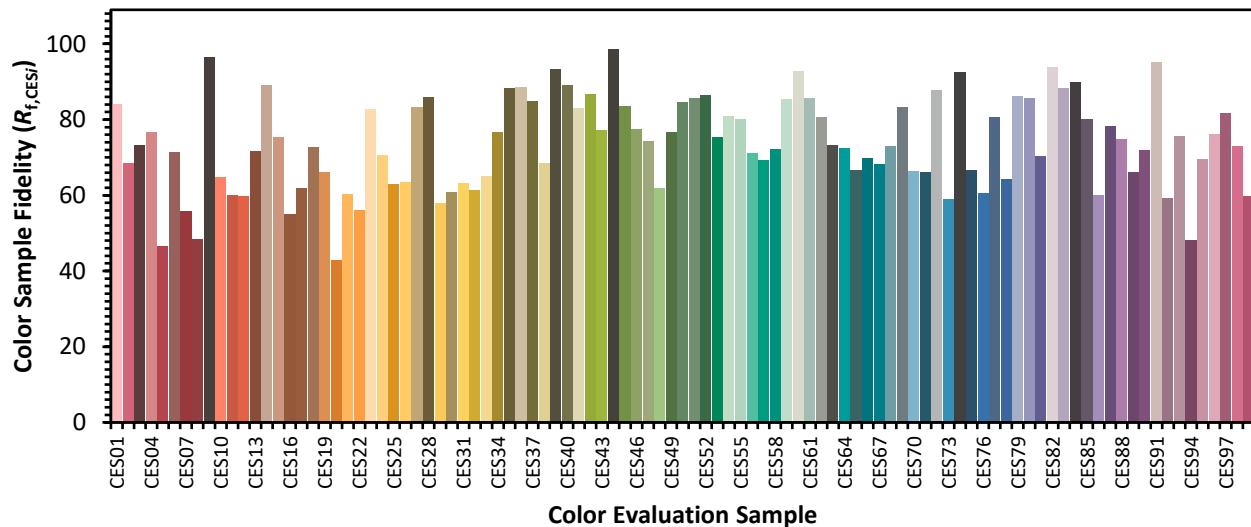


Color Vector Graphics

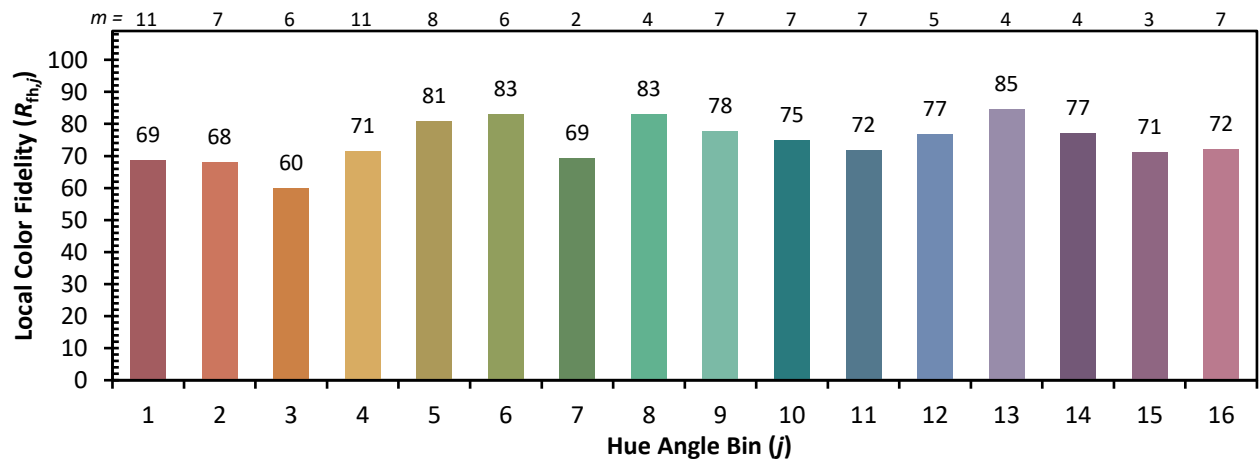
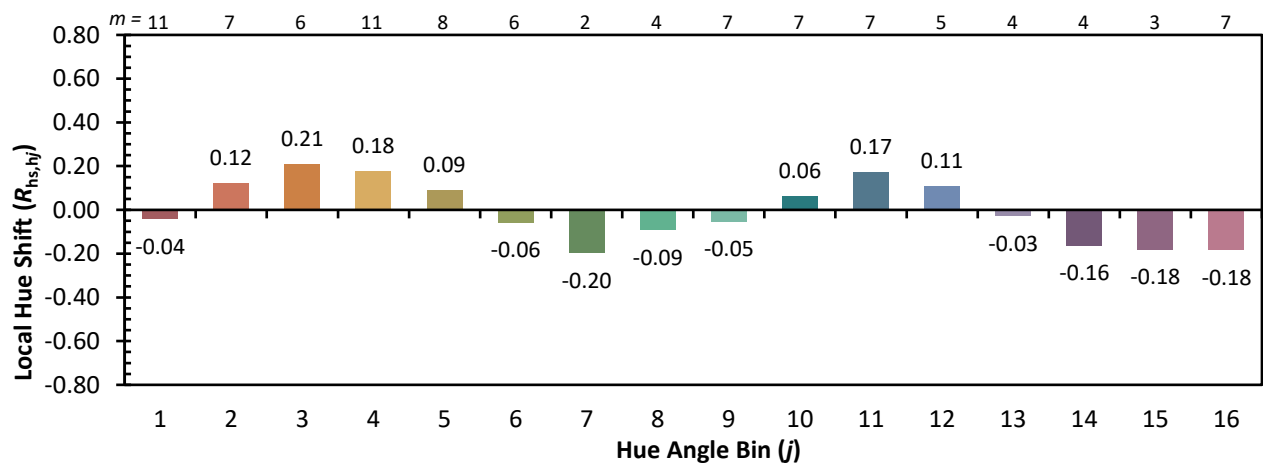
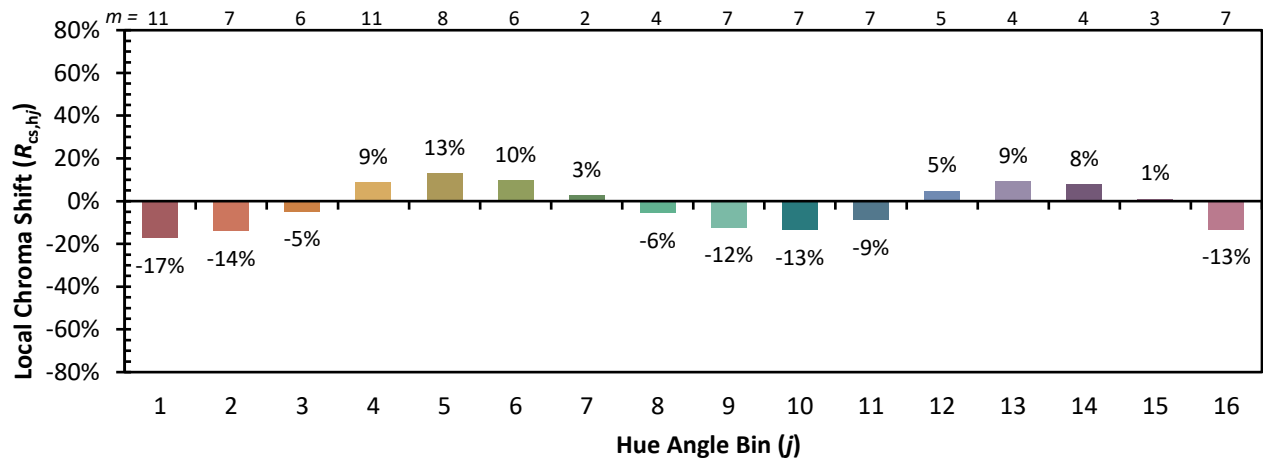


Individual Sample Fidelity Index ($R_{f,i}$)

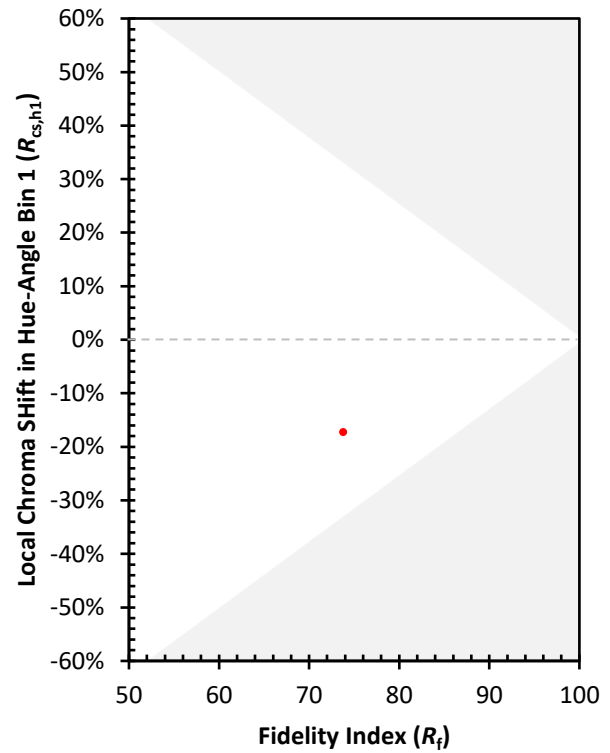
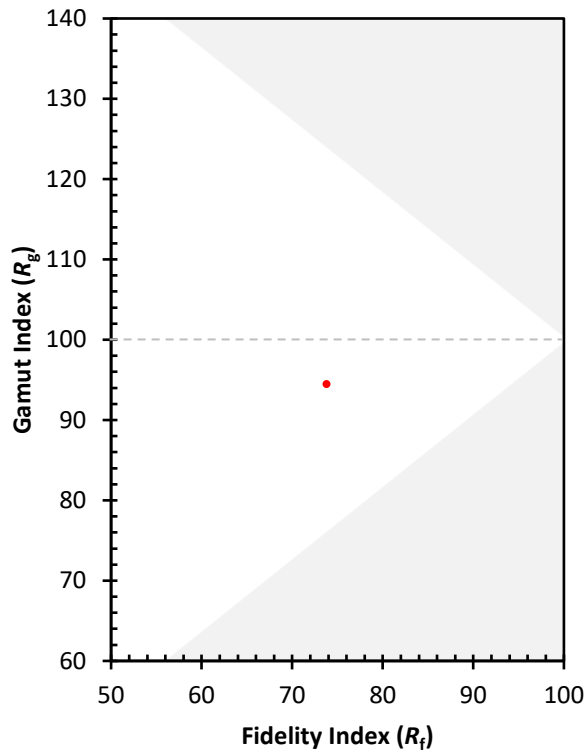
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 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	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)