

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: P1067953

Luminaire Tested: **NAV-SA4A-730-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067953
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA4A-730-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 4xLight Square PACKAGE
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11138.3 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 107.4
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



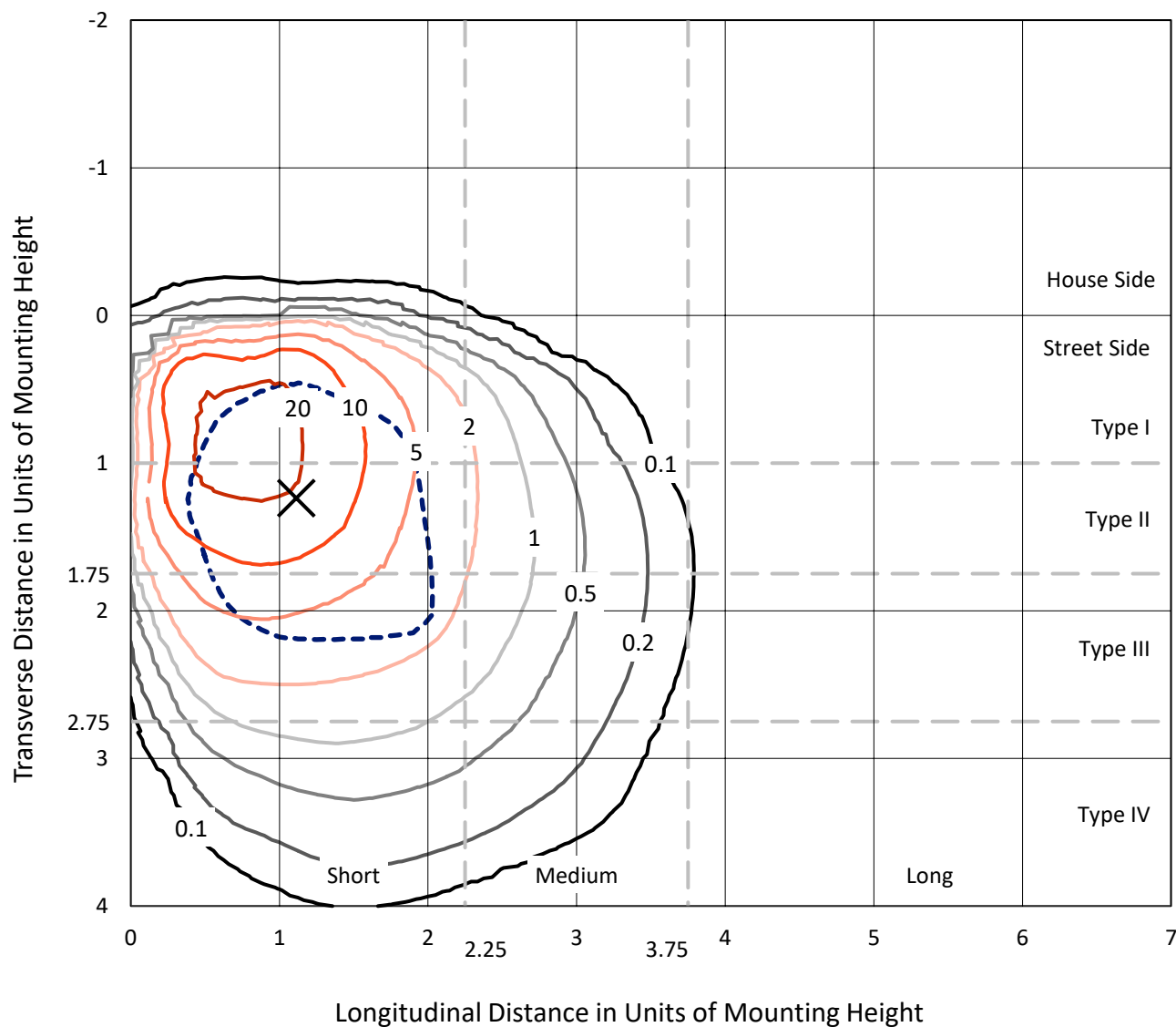
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

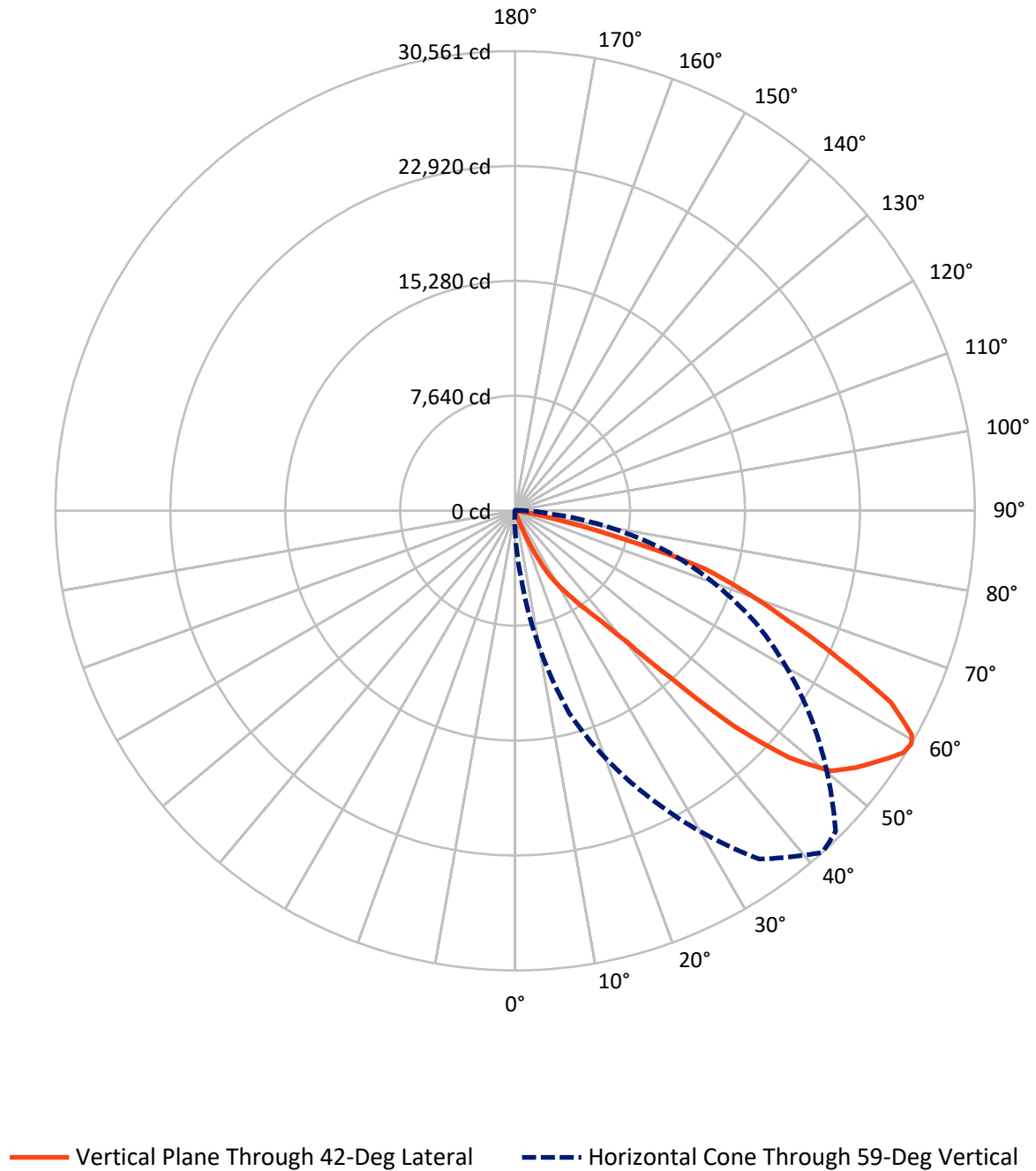


Based on 15 foot mounting height. Maximum calculated value = 33.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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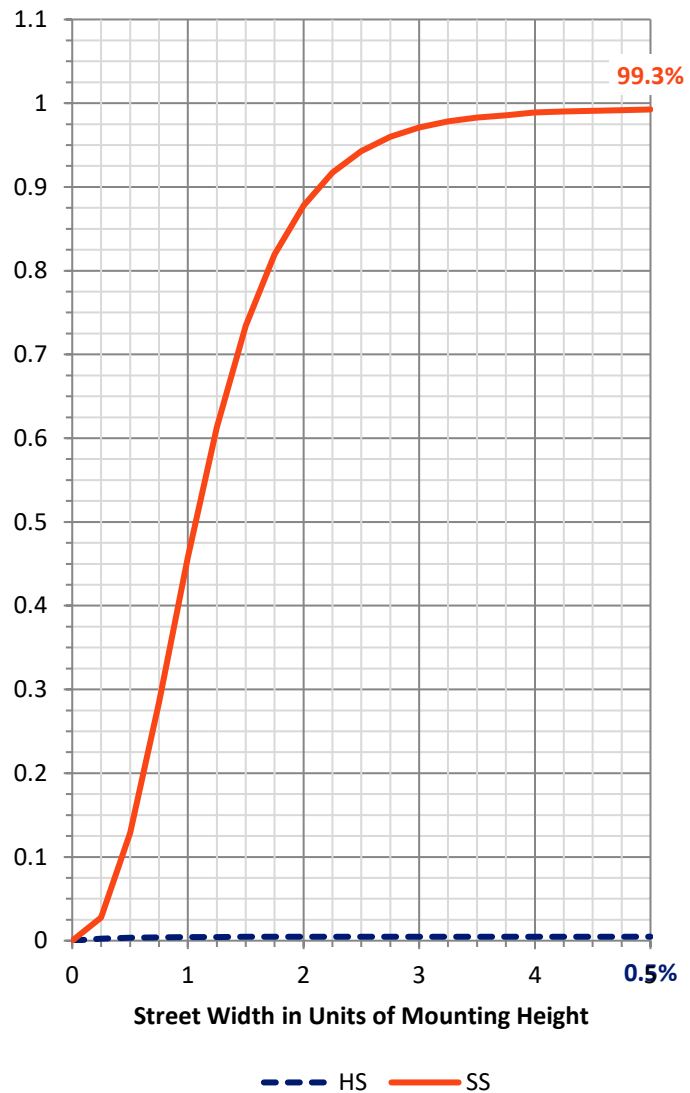
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	53.7	0.0	53.7
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	11084.6	0.0	11084.6
	% Fixture	99.5	0.0	99.5
Total	Lumens	11138.3	0.0	11138.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.3	0.0
10°-20°	16.2	0.1
20°-30°	207.8	1.9
30°-40°	700.5	6.3
40°-50°	2115.7	19.0
50°-60°	3734.7	33.5
60°-70°	3288.5	29.5
70°-80°	1046.7	9.4
80°-90°	25.0	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°	11138.3	100.0
0°-180°	11138.3	100.0



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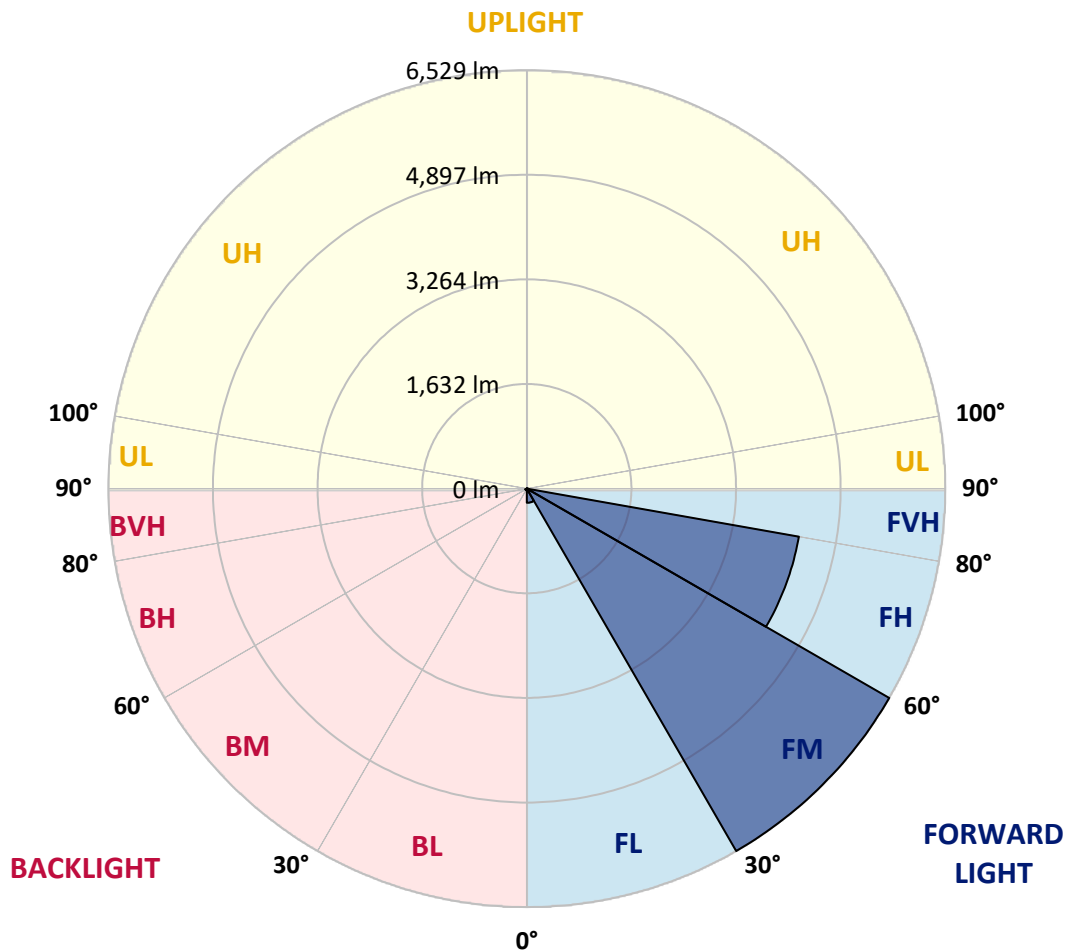
CATALOG NUMBER: NAV-SA4A-730-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	221.3	2.0			
FM	(30°-60°)	6528.9	58.6			
FH	(60°-80°)	4310.6	38.7			G2/5000
FVH	(80°-90°)	23.8	0.2			G1/100
BL	(0°-30°)	6.0	0.1	B0/110		
BM	(30°-60°)	21.9	0.2	B0/220		
BH	(60°-80°)	24.5	0.2	B0/110		G0/110
BVH	(80°-90°)	1.2	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°	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4
2.5°	48.9	48.9	45.4	41.9	38.4	34.9	34.9	34.9	31.4	31.4	27.9
5°	55.9	55.9	52.4	48.9	48.9	45.4	45.4	41.9	38.4	38.4	34.9
7.5°	59.4	59.4	59.4	59.4	55.9	55.9	55.9	52.4	48.9	45.4	41.9
10°	62.9	66.4	69.8	69.8	69.8	69.8	69.8	66.4	59.4	55.9	48.9
12.5°	69.8	73.3	80.3	87.3	87.3	90.8	87.3	83.8	76.8	66.4	55.9
15°	76.8	83.8	94.3	108.3	122.2	125.7	125.7	115.2	101.3	80.3	66.4
17.5°	87.3	97.8	125.7	171.1	220.0	258.4	258.4	230.5	160.6	104.8	76.8
20°	94.3	115.2	202.5	412.1	628.6	789.2	757.8	670.5	359.7	164.1	83.8
22.5°	104.8	146.7	429.5	1082.6	1676.3	1969.6	1899.8	1442.3	806.7	293.3	101.3
25°	118.7	213.0	852.1	2029.0	3115.1	3432.9	3387.5	2692.5	1470.2	492.4	129.2
27.5°	146.7	314.3	1365.5	3076.7	4595.8	4868.2	4850.7	3942.7	2350.3	792.7	167.6
30°	185.1	457.5	2025.5	4180.2	5577.1	5853.0	5765.7	4857.7	3170.9	1211.8	216.5
32.5°	230.5	639.1	2622.7	4993.9	6481.6	6844.8	6740.0	5653.9	3831.0	1568.0	321.3
35°	300.3	817.2	3212.8	5713.3	7525.8	7986.7	7812.1	6474.6	4400.2	1969.6	387.6
37.5°	335.3	921.9	3754.1	6495.5	8699.1	9327.7	9195.0	7511.8	4979.9	2483.0	474.9
40°	338.7	1047.7	4316.4	7515.3	10357.9	11479.0	11241.5	9292.8	6059.0	3143.0	611.1
42.5°	349.2	1236.2	5046.3	9254.4	13616.2	15226.1	14957.2	12568.5	8507.1	4466.6	866.1
45°	398.1	1592.5	6534.0	12505.7	18089.7	20450.5	20139.7	17132.9	11926.0	6956.5	1477.2
47.5°	569.2	2395.7	9142.7	16015.4	22664.6	24546.9	24470.0	20729.9	15023.6	9509.3	2503.9
50°	915.0	3677.3	12111.0	18966.3	25577.1	27194.0	27001.9	22231.5	16790.6	11252.0	3209.4
52.5°	1222.3	4903.1	13975.9	20052.4	26446.6	28374.4	28140.4	22779.8	17255.1	11765.3	3404.9
55°	1299.1	5346.6	14531.2	20387.6	27022.9	29373.1	29034.4	23146.5	17314.5	11398.6	3080.1
57.5°	1260.7	4927.5	14171.5	20715.9	27826.1	30399.8	29949.3	23862.4	17513.5	10777.0	2563.3
59°	1194.3	4410.7	13948.0	20977.8	28269.6	30560.5	30137.9	24019.5	17646.2	10494.1	2249.0
60°	1117.5	4061.5	13773.3	21148.9	28241.6	30309.0	29872.5	23946.2	17698.6	10249.7	2098.8
62.5°	862.6	3240.8	13521.9	21026.7	26478.1	28014.7	27766.7	22151.2	16930.3	9467.4	1655.3
65°	670.5	2479.5	12600.0	18753.3	22531.9	23565.6	23488.7	18756.8	14248.3	8161.3	1194.3
67.5°	530.8	1809.0	10654.8	15187.7	18128.2	19598.4	19542.5	15226.1	10815.4	6237.1	859.1
70°	433.0	1288.6	7305.7	11451.0	14499.7	16350.6	16270.3	12254.2	8014.7	3956.7	625.1
72.5°	366.7	824.2	4431.6	8632.8	12100.6	13158.7	12924.7	9886.5	5828.5	2154.7	495.9
75°	310.8	506.4	2196.6	5381.5	7208.0	7201.0	6967.0	5234.8	3129.0	1054.7	394.6
77.5°	251.4	356.2	862.6	1477.2	2273.4	2814.7	2769.3	1854.4	935.9	307.3	244.5
80°	164.1	167.6	230.5	405.1	625.1	691.5	785.8	565.7	272.4	146.7	101.3
82.5°	73.3	80.3	104.8	132.7	132.7	122.2	108.3	80.3	59.4	48.9	24.4
85°	17.5	24.4	17.5	21.0	17.5	14.0	14.0	7.0	0.0	0.0	0.0
87.5°	3.5	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°	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4
2.5°	27.9	27.9	27.9	24.4	24.4	24.4	21.0	21.0	21.0	17.5	17.5
5°	34.9	31.4	27.9	27.9	24.4	24.4	21.0	17.5	17.5	17.5	14.0
7.5°	38.4	34.9	31.4	27.9	24.4	21.0	21.0	17.5	14.0	14.0	14.0
10°	45.4	41.9	34.9	27.9	24.4	21.0	17.5	17.5	14.0	10.5	10.5
12.5°	52.4	45.4	38.4	31.4	24.4	21.0	17.5	17.5	14.0	10.5	7.0
15°	59.4	52.4	41.9	31.4	24.4	21.0	17.5	17.5	10.5	7.0	3.5
17.5°	66.4	55.9	41.9	34.9	24.4	21.0	17.5	14.0	7.0	3.5	0.0
20°	69.8	59.4	45.4	34.9	24.4	21.0	17.5	10.5	3.5	0.0	0.0
22.5°	76.8	66.4	48.9	34.9	24.4	17.5	10.5	3.5	0.0	0.0	0.0
25°	90.8	69.8	48.9	34.9	24.4	17.5	7.0	0.0	0.0	0.0	0.0
27.5°	101.3	76.8	48.9	34.9	24.4	14.0	3.5	0.0	0.0	0.0	0.0
30°	118.7	83.8	52.4	34.9	24.4	10.5	3.5	0.0	0.0	0.0	0.0
32.5°	146.7	90.8	52.4	34.9	21.0	10.5	0.0	0.0	0.0	0.0	0.0
35°	178.1	104.8	52.4	34.9	21.0	10.5	0.0	0.0	0.0	0.0	0.0
37.5°	181.6	111.8	52.4	34.9	21.0	7.0	0.0	0.0	0.0	0.0	0.0
40°	188.6	104.8	55.9	34.9	21.0	7.0	0.0	0.0	0.0	0.0	0.0
42.5°	216.5	97.8	59.4	34.9	21.0	7.0	0.0	0.0	0.0	0.0	0.0
45°	321.3	101.3	59.4	38.4	21.0	10.5	0.0	0.0	0.0	0.0	0.0
47.5°	558.8	104.8	55.9	38.4	21.0	10.5	0.0	0.0	0.0	0.0	0.0
50°	715.9	122.2	55.9	41.9	24.4	7.0	0.0	0.0	0.0	0.0	0.0
52.5°	761.3	143.2	55.9	45.4	31.4	3.5	0.0	0.0	0.0	0.0	0.0
55°	740.4	167.6	59.4	48.9	38.4	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	684.5	181.6	62.9	52.4	41.9	0.0	0.0	0.0	0.0	0.0	0.0
59°	625.1	192.1	73.3	55.9	41.9	0.0	0.0	0.0	0.0	0.0	0.0
60°	576.2	202.5	76.8	59.4	41.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	464.5	216.5	83.8	69.8	34.9	0.0	0.0	0.0	0.0	0.0	0.0
65°	405.1	227.0	87.3	76.8	31.4	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	370.2	234.0	94.3	80.3	27.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	342.2	230.5	101.3	76.8	24.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	310.8	220.0	122.2	69.8	21.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	279.4	199.1	132.7	62.9	14.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	202.5	167.6	122.2	55.9	7.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	87.3	90.8	87.3	41.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	17.5	21.0	17.5	10.5	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°	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4
2.5°	17.5	17.5	17.5	17.5	21.0	21.0	27.9	34.9	41.9	45.4	45.4
5°	14.0	14.0	14.0	14.0	14.0	17.5	21.0	27.9	38.4	41.9	41.9
7.5°	10.5	10.5	10.5	10.5	10.5	10.5	17.5	24.4	34.9	38.4	41.9
10°	10.5	7.0	7.0	3.5	3.5	7.0	10.5	21.0	31.4	34.9	38.4
12.5°	7.0	3.5	3.5	0.0	0.0	3.5	7.0	17.5	27.9	31.4	34.9
15°	3.5	0.0	0.0	0.0	0.0	0.0	3.5	14.0	24.4	27.9	34.9
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5	21.0	27.9	31.4
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	17.5	24.4	27.9
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	14.0	21.0	24.4
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5	14.0	17.5
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	10.5	14.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	10.5	14.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	7.0	10.5
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	7.0	10.5
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	7.0	7.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	7.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	7.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	7.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	7.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	7.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	7.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	7.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5
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°	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4
2.5°	48.9	48.9	45.4	41.9	41.9	41.9	45.4	48.9	48.9	48.9
5°	45.4	45.4	41.9	41.9	41.9	41.9	45.4	52.4	55.9	55.9
7.5°	45.4	45.4	41.9	41.9	41.9	41.9	45.4	52.4	55.9	59.4
10°	41.9	41.9	41.9	41.9	38.4	41.9	45.4	52.4	62.9	62.9
12.5°	41.9	41.9	41.9	41.9	38.4	41.9	48.9	55.9	66.4	69.8
15°	41.9	41.9	41.9	38.4	38.4	41.9	48.9	59.4	69.8	76.8
17.5°	38.4	41.9	41.9	38.4	38.4	41.9	48.9	59.4	76.8	87.3
20°	34.9	38.4	41.9	38.4	38.4	38.4	48.9	59.4	80.3	94.3
22.5°	31.4	34.9	38.4	38.4	34.9	38.4	48.9	62.9	87.3	104.8
25°	27.9	31.4	31.4	34.9	34.9	38.4	48.9	62.9	90.8	118.7
27.5°	21.0	24.4	27.9	31.4	31.4	38.4	48.9	66.4	97.8	146.7
30°	17.5	21.0	24.4	27.9	31.4	38.4	48.9	66.4	104.8	185.1
32.5°	17.5	21.0	24.4	27.9	31.4	34.9	48.9	69.8	115.2	230.5
35°	14.0	17.5	21.0	27.9	27.9	34.9	48.9	69.8	125.7	300.3
37.5°	14.0	17.5	21.0	27.9	27.9	34.9	48.9	69.8	153.7	335.3
40°	10.5	14.0	17.5	27.9	27.9	34.9	52.4	73.3	157.2	338.7
42.5°	10.5	14.0	17.5	24.4	27.9	34.9	52.4	73.3	146.7	349.2
45°	10.5	14.0	17.5	27.9	31.4	38.4	52.4	76.8	143.2	398.1
47.5°	10.5	14.0	17.5	27.9	34.9	38.4	52.4	76.8	146.7	569.2
50°	10.5	14.0	17.5	27.9	38.4	38.4	52.4	76.8	160.6	915.0
52.5°	7.0	10.5	14.0	24.4	31.4	41.9	55.9	73.3	171.1	1222.3
55°	7.0	7.0	10.5	21.0	27.9	45.4	59.4	73.3	199.1	1299.1
57.5°	7.0	7.0	10.5	17.5	24.4	48.9	62.9	73.3	230.5	1260.7
59°	7.0	7.0	7.0	17.5	21.0	48.9	62.9	76.8	234.0	1194.3
60°	7.0	7.0	7.0	14.0	21.0	48.9	66.4	80.3	237.5	1117.5
62.5°	3.5	3.5	3.5	14.0	17.5	48.9	73.3	97.8	244.5	862.6
65°	7.0	7.0	3.5	10.5	17.5	41.9	83.8	104.8	247.9	670.5
67.5°	7.0	7.0	7.0	14.0	17.5	41.9	87.3	108.3	247.9	530.8
70°	7.0	7.0	7.0	14.0	21.0	41.9	87.3	111.8	244.5	433.0
72.5°	7.0	7.0	7.0	14.0	21.0	38.4	80.3	115.2	234.0	366.7
75°	7.0	7.0	7.0	10.5	17.5	34.9	76.8	125.7	213.0	310.8
77.5°	7.0	7.0	7.0	7.0	14.0	27.9	69.8	139.7	188.6	251.4
80°	10.5	7.0	7.0	7.0	10.5	24.4	66.4	136.2	157.2	164.1
82.5°	10.5	7.0	7.0	3.5	7.0	17.5	52.4	104.8	80.3	73.3
85°	7.0	7.0	7.0	3.5	3.5	10.5	24.4	31.4	24.4	17.5
87.5°	7.0	7.0	7.0	3.5	3.5	3.5	3.5	3.5	3.5	3.5
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

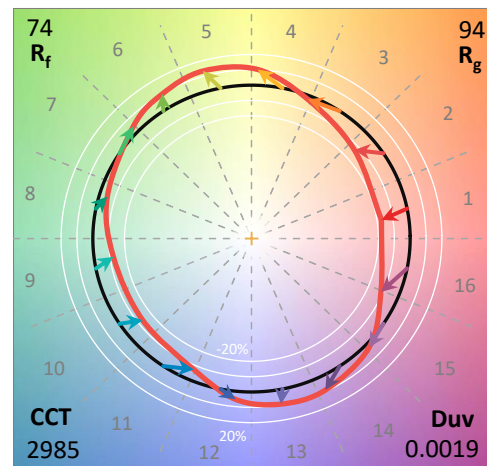
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

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

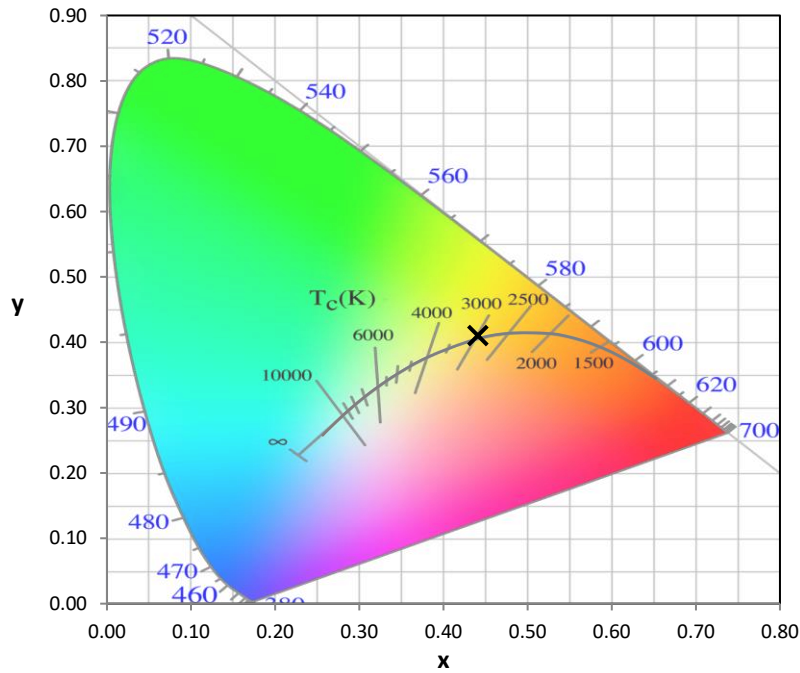
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

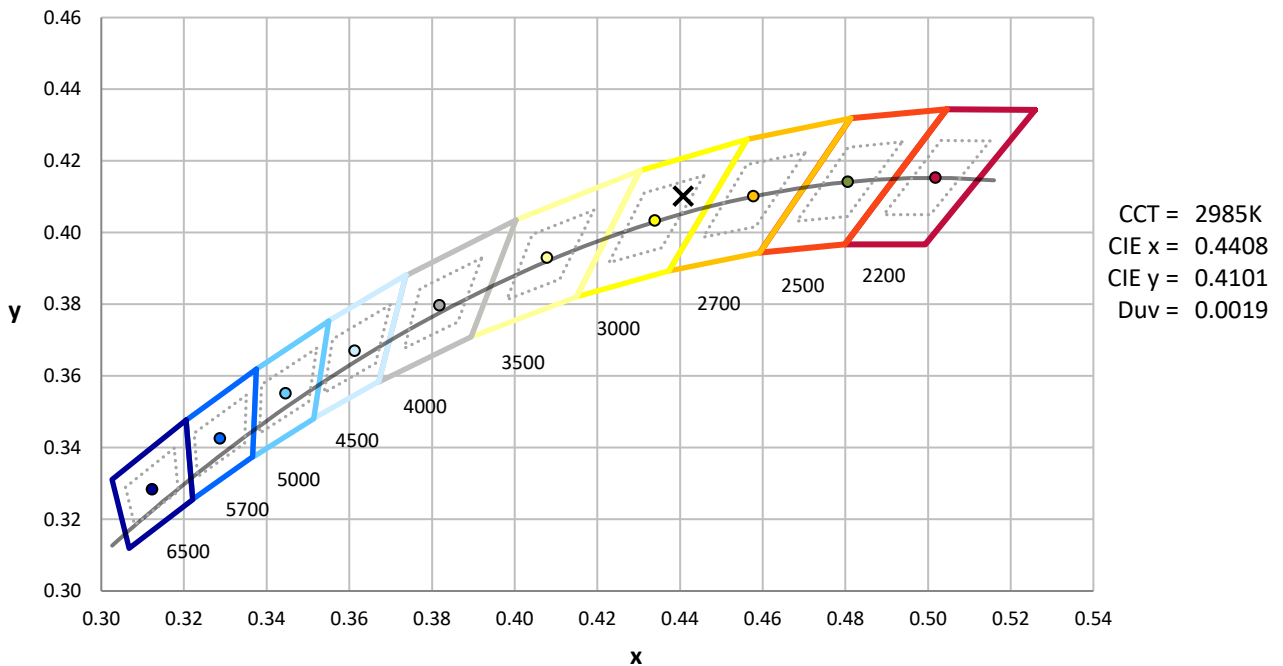
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-4

CIE 1931 Chromaticity Diagram



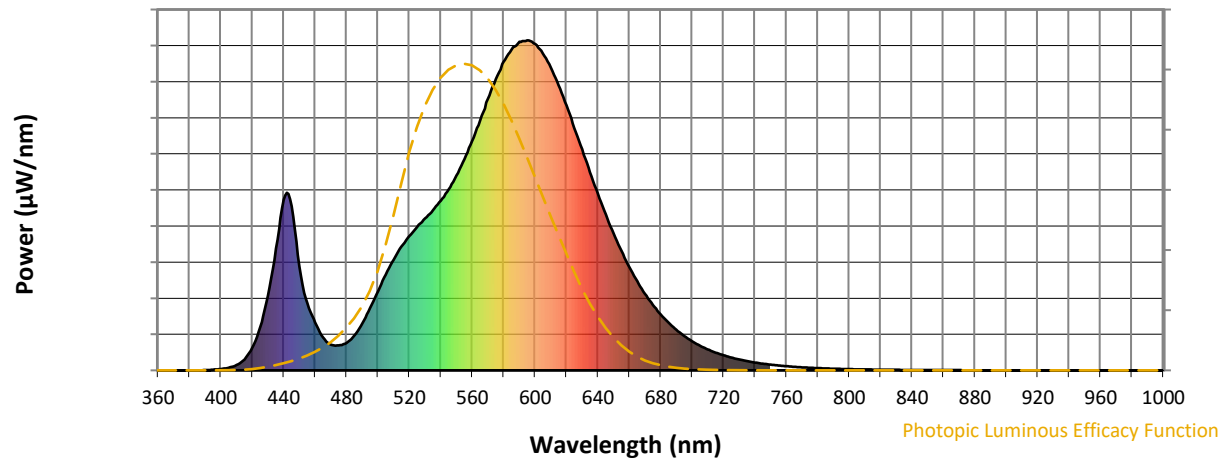
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

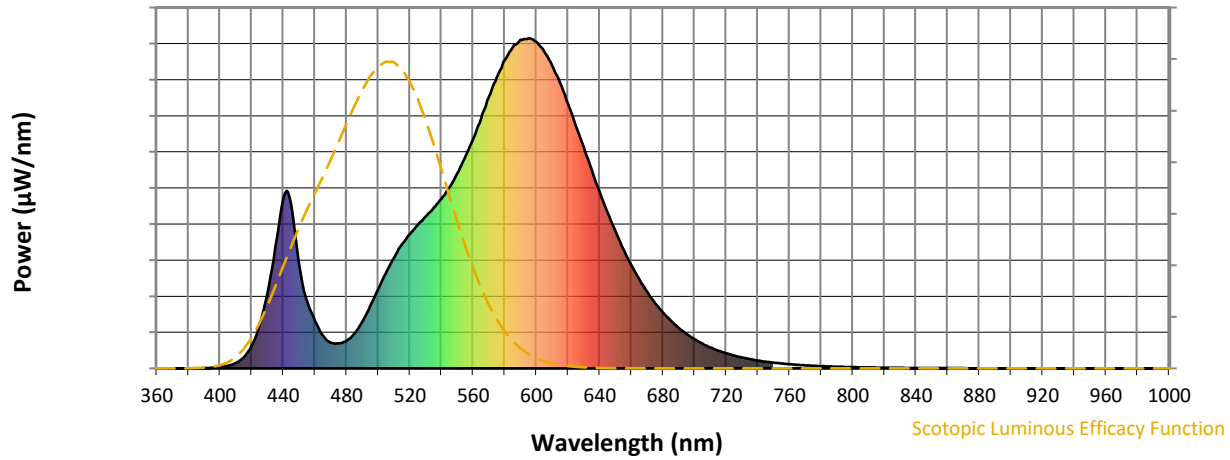


Photopic Lumens: NR

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



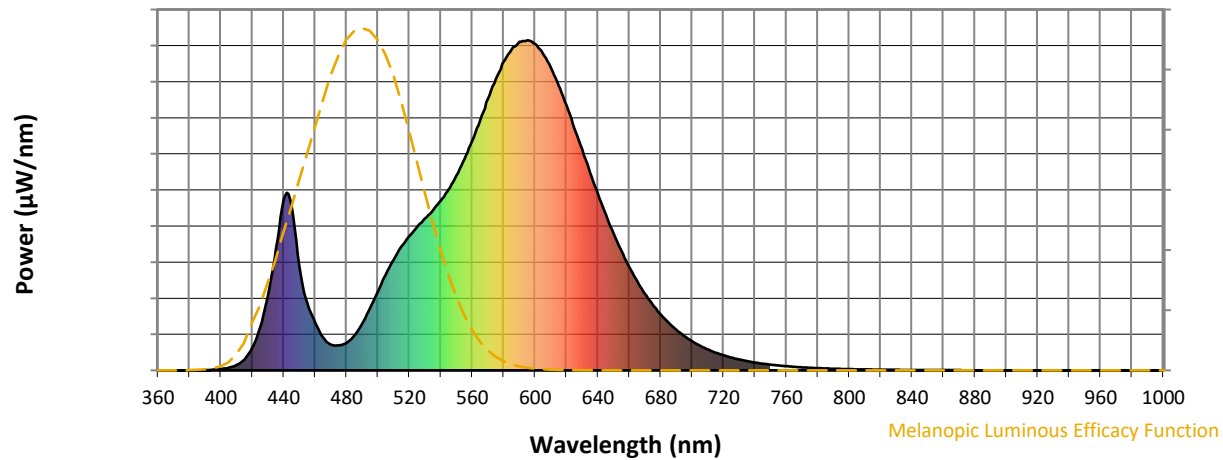
Scotopic Lumens: NR

S/P: 1.19

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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

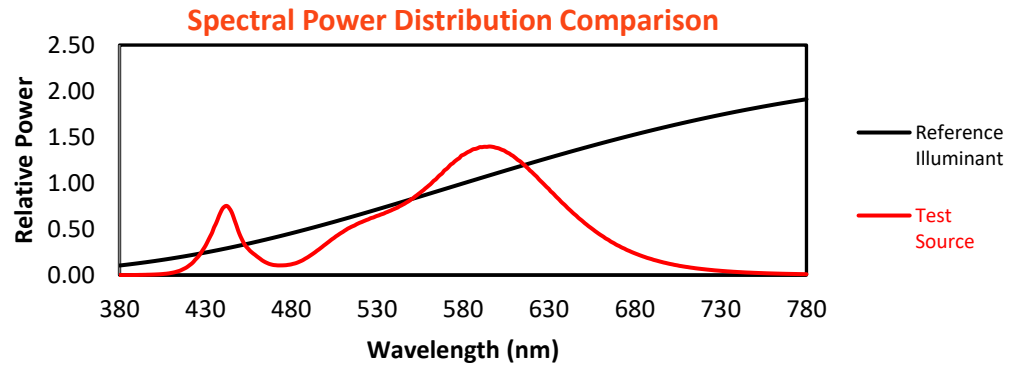
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	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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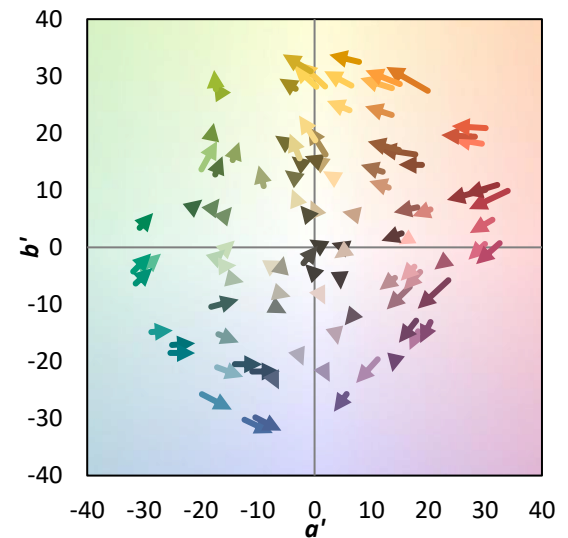
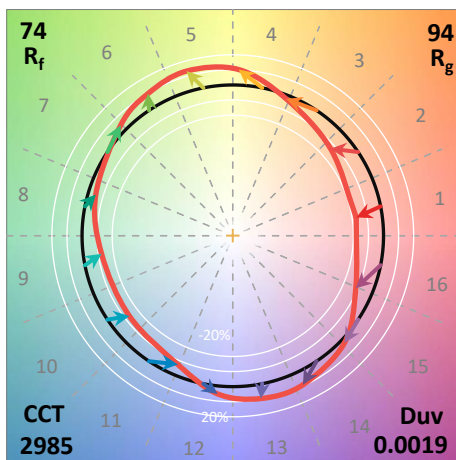
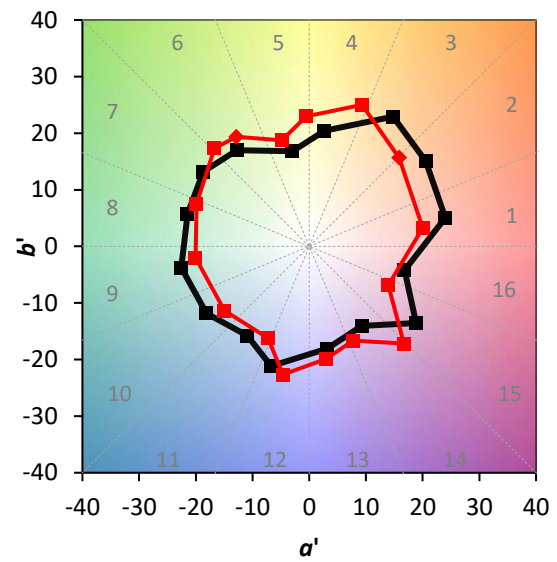
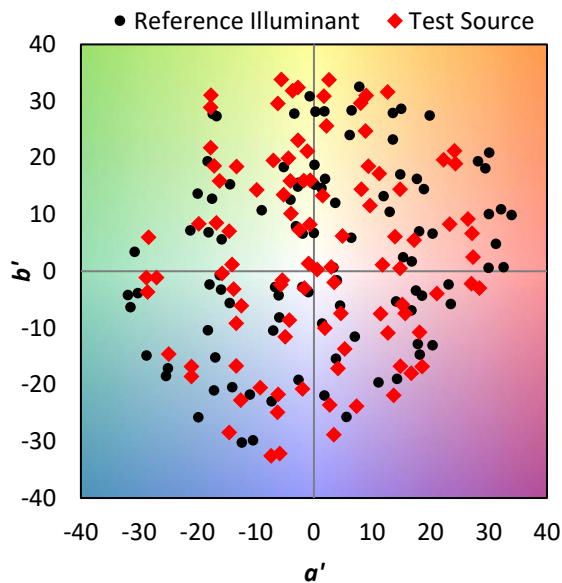
TM-30-18

Summary

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

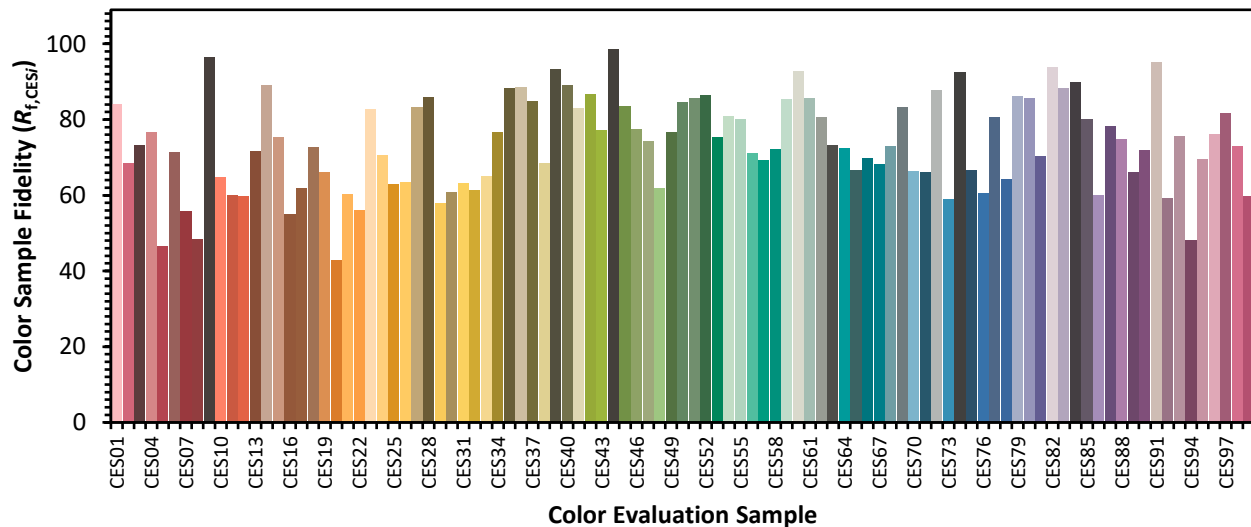


Color Vector Graphics

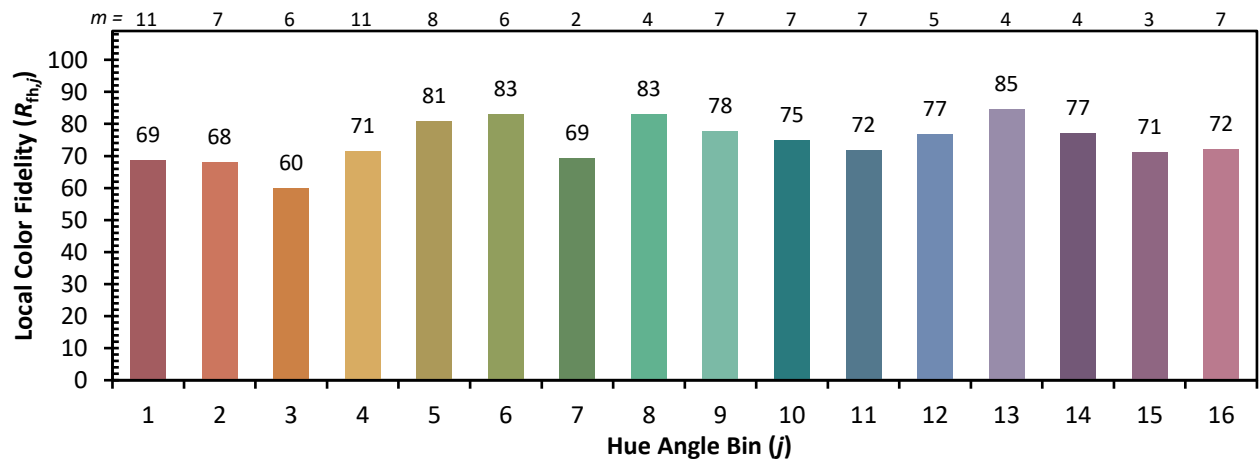
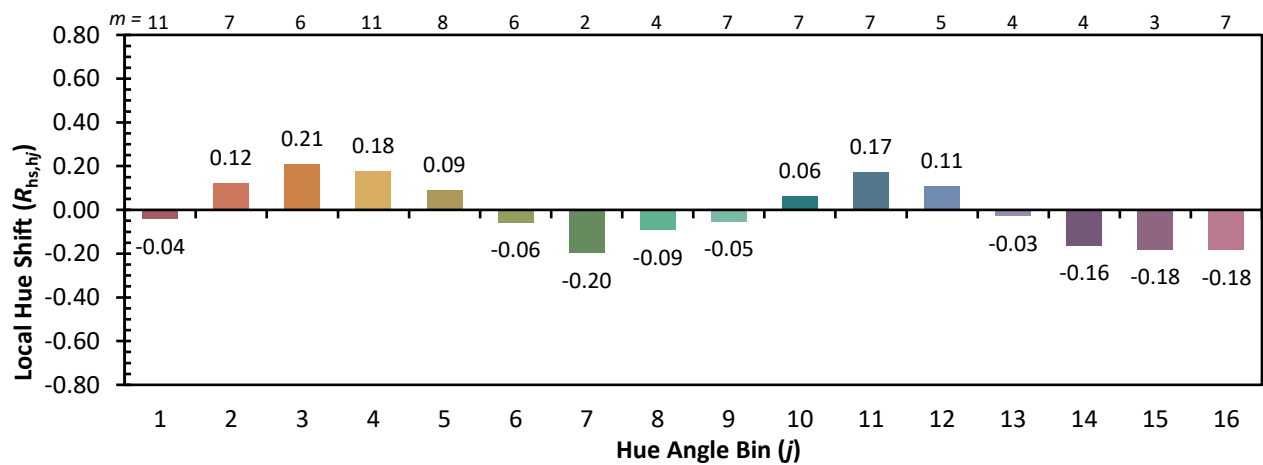
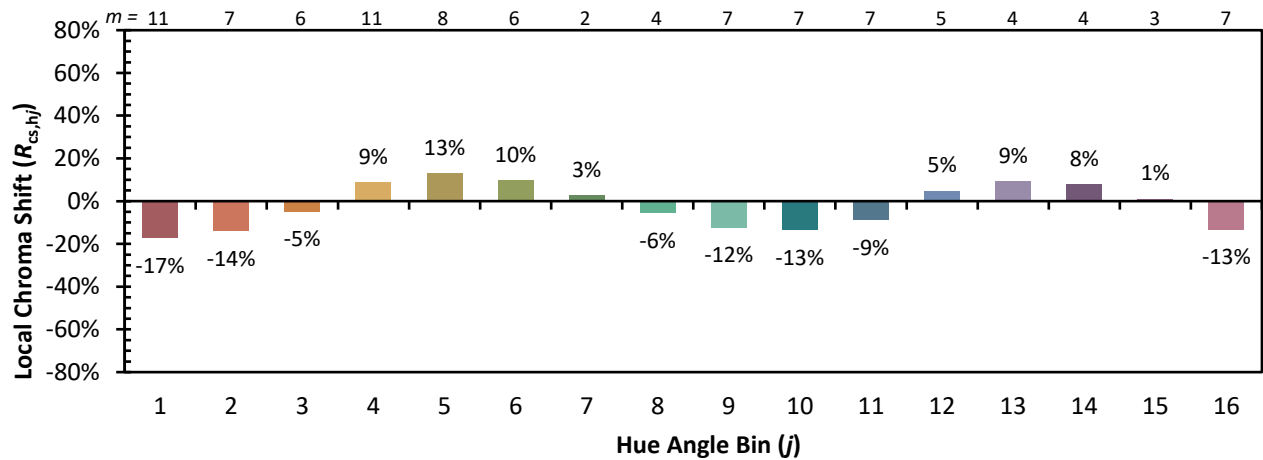


Individual Sample Fidelity Index ($R_{f,i}$)

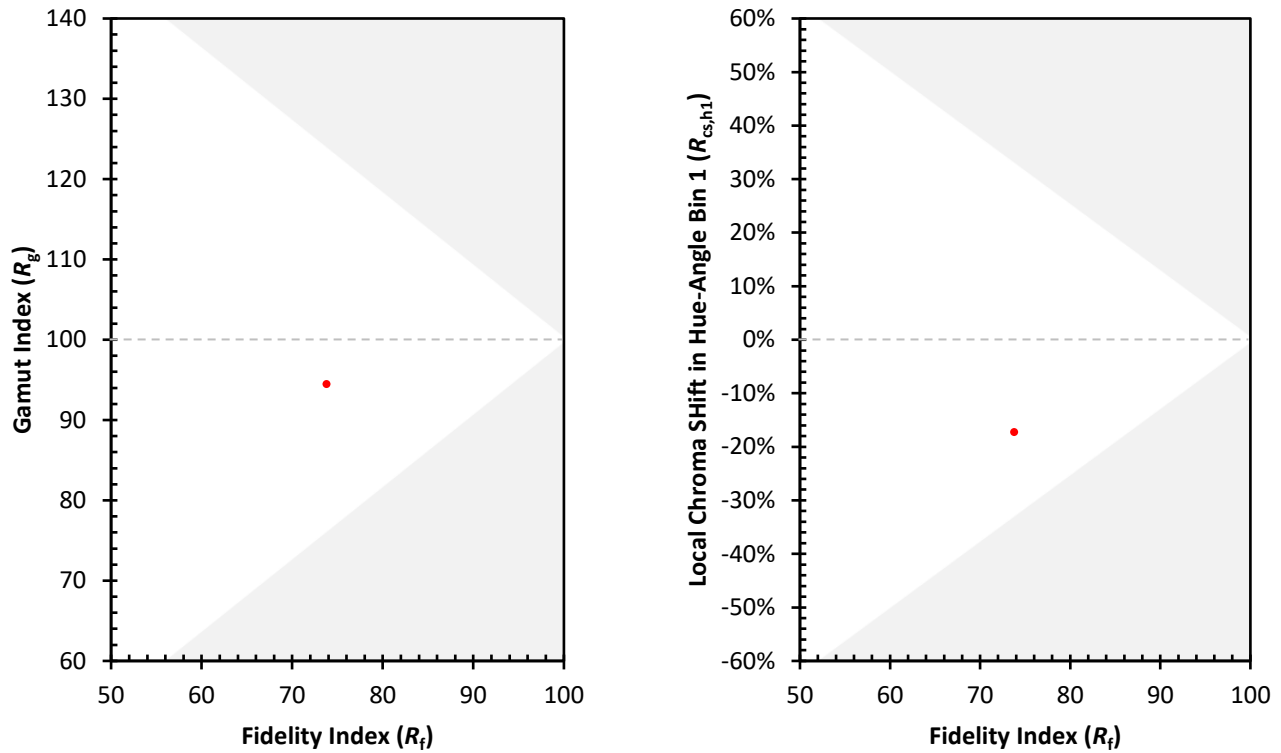
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82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