

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: P1067981

Luminaire Tested: **NAV-SA5A-735-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067981
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA5A-735-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 5xLight Square PACKAGE
70CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14245.9 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 137.4
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

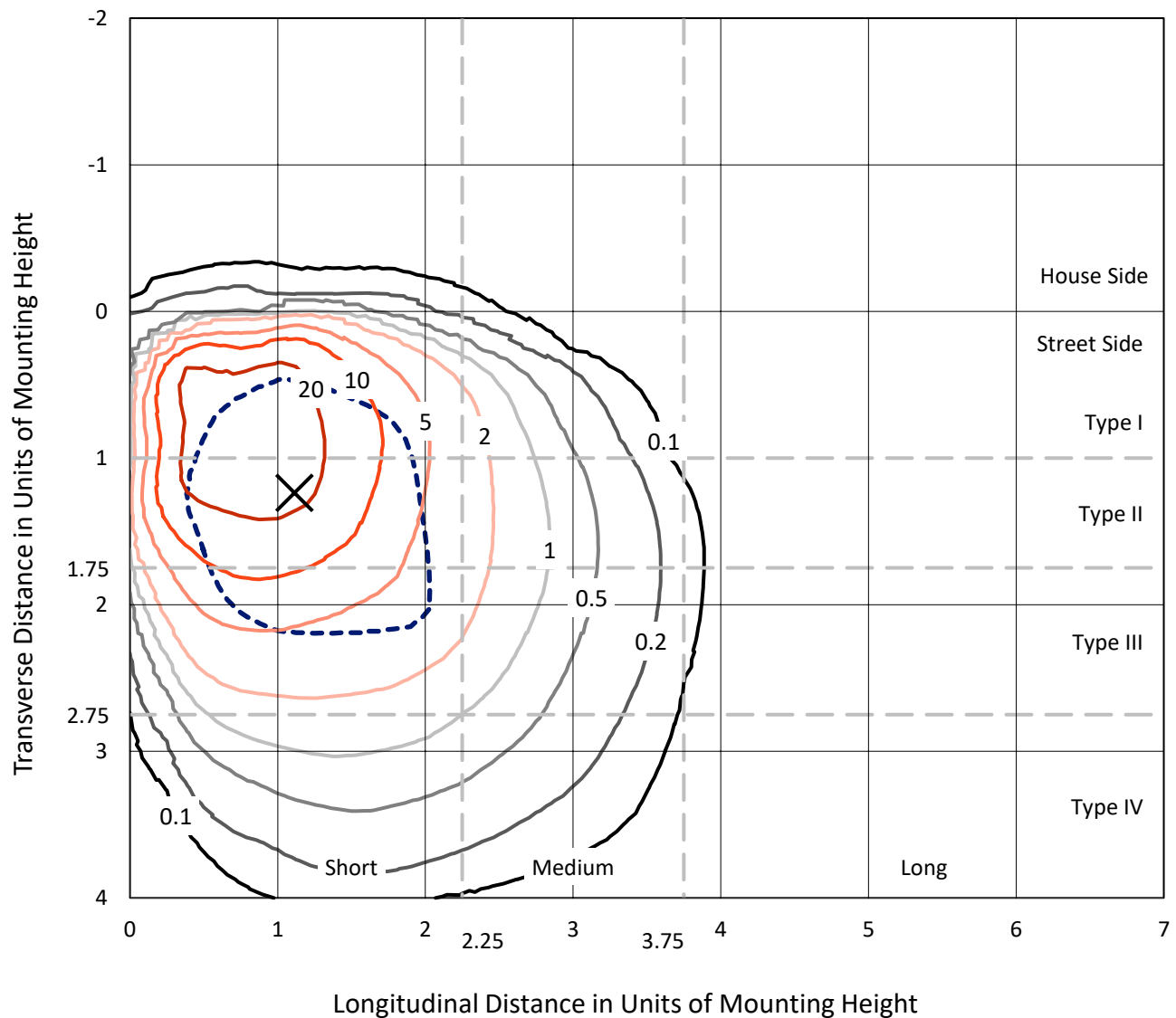


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

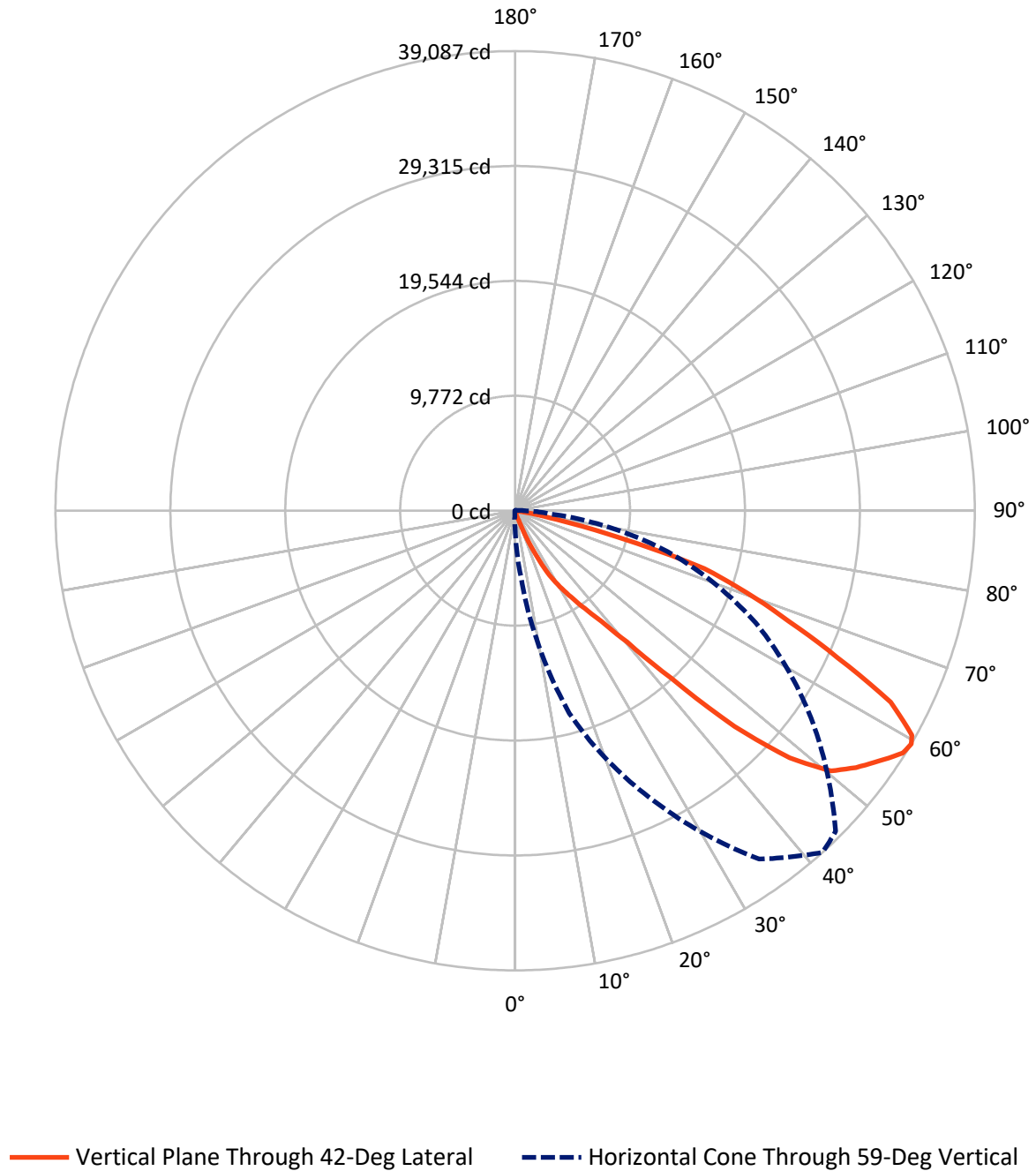


Based on 15 foot mounting height. Maximum calculated value = 42.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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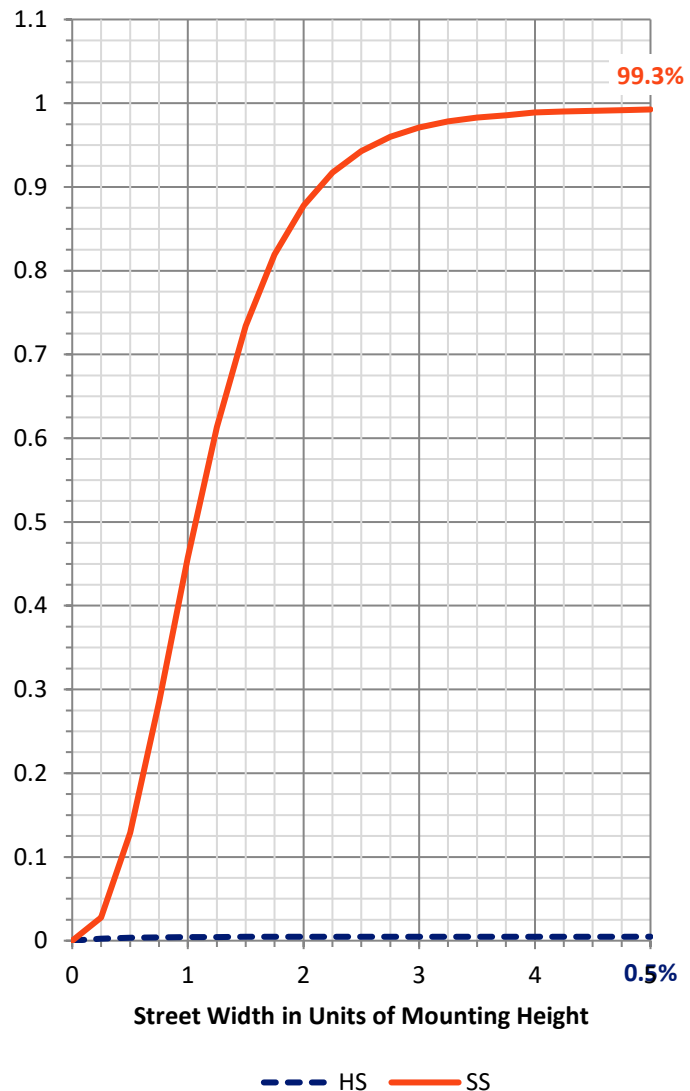
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	68.6	0.0	68.6
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	14177.3	0.0	14177.3
	% Fixture	99.5	0.0	99.5
Total	Lumens	14245.9	0.0	14245.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.2	0.0
10°-20°	20.8	0.1
20°-30°	265.7	1.9
30°-40°	895.9	6.3
40°-50°	2706.0	19.0
50°-60°	4776.7	33.5
60°-70°	4205.9	29.5
70°-80°	1338.8	9.4
80°-90°	32.0	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°	14245.9	100.0
0°-180°	14245.9	100.0



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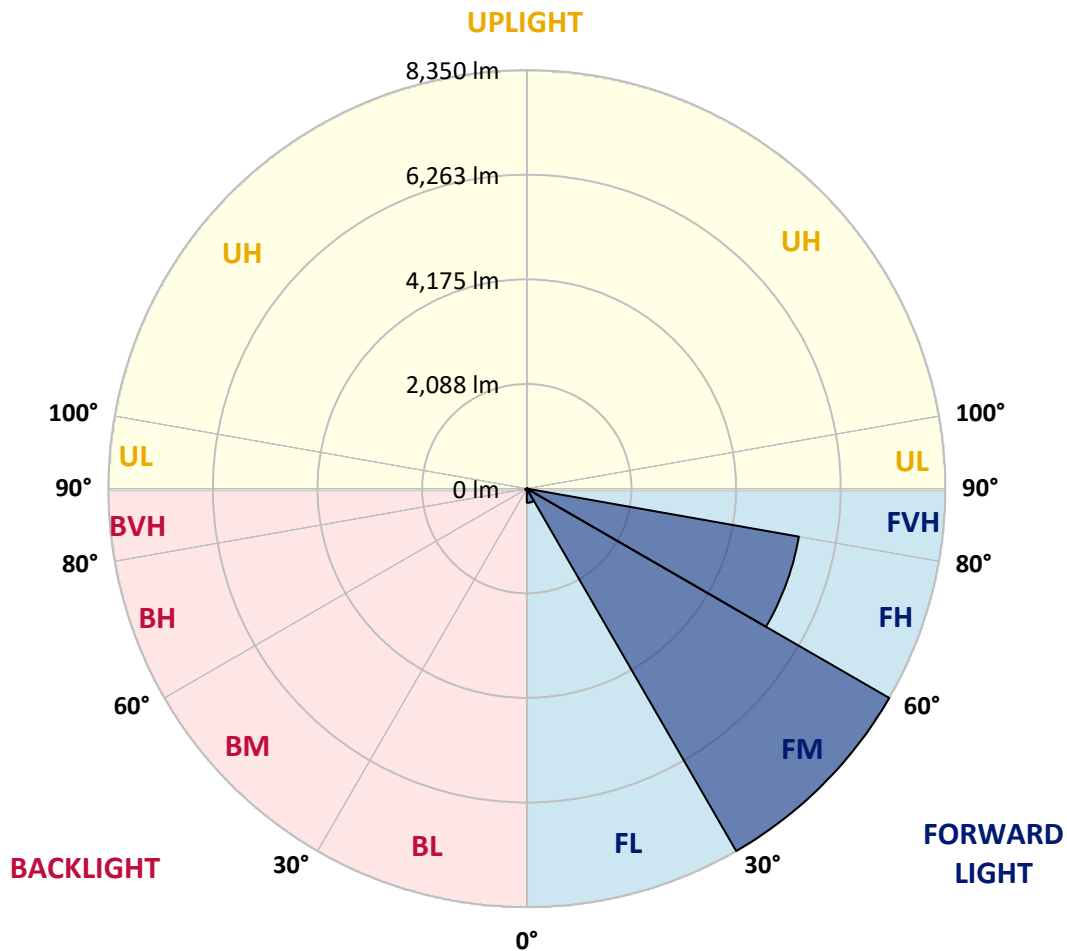
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	283.0	2.0			
FM	(30°-60°)	8350.5	58.6			
FH	(60°-80°)	5513.3	38.7			G3/7500
FVH	(80°-90°)	30.5	0.2			G1/100
BL	(0°-30°)	7.7	0.1	B0/110		
BM	(30°-60°)	28.0	0.2	B0/220		
BH	(60°-80°)	31.4	0.2	B0/110		G0/110
BVH	(80°-90°)	1.5	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
2.5°	62.5	62.5	58.1	53.6	49.1	44.7	44.7	44.7	40.2	40.2	35.7
5°	71.5	71.5	67.0	62.5	62.5	58.1	58.1	53.6	49.1	49.1	44.7
7.5°	75.9	75.9	75.9	75.9	71.5	71.5	71.5	67.0	62.5	58.1	53.6
10°	80.4	84.9	89.3	89.3	89.3	89.3	89.3	84.9	75.9	71.5	62.5
12.5°	89.3	93.8	102.7	111.7	111.7	116.1	111.7	107.2	98.3	84.9	71.5
15°	98.3	107.2	120.6	138.5	156.3	160.8	160.8	147.4	129.5	102.7	84.9
17.5°	111.7	125.1	160.8	218.9	281.4	330.5	330.5	294.8	205.5	134.0	98.3
20°	120.6	147.4	259.1	527.1	804.0	1009.4	969.2	857.6	460.1	209.9	107.2
22.5°	134.0	187.6	549.4	1384.6	2144.0	2519.1	2429.8	1844.7	1031.8	375.2	129.5
25°	151.9	272.5	1089.8	2595.1	3984.2	4390.6	4332.6	3443.7	1880.4	629.8	165.3
27.5°	187.6	402.0	1746.4	3935.1	5878.0	6226.4	6204.1	5042.8	3006.0	1013.9	214.4
30°	236.7	585.1	2590.6	5346.5	7133.1	7486.0	7374.3	6213.0	4055.7	1549.9	276.9
32.5°	294.8	817.4	3354.4	6387.2	8290.0	8754.5	8620.5	7231.4	4899.8	2005.5	410.9
35°	384.1	1045.2	4109.3	7307.3	9625.5	10215.1	9991.7	8281.0	5627.9	2519.1	495.8
37.5°	428.8	1179.2	4801.6	8307.8	11126.2	11930.2	11760.5	9607.6	6369.3	3175.7	607.5
40°	433.3	1340.0	5520.7	9612.1	13247.9	14681.6	14377.9	11885.6	7749.5	4019.9	781.7
42.5°	446.7	1581.2	6454.2	11836.4	17415.2	19474.3	19130.4	16075.2	10880.6	5712.8	1107.7
45°	509.2	2036.8	8357.0	15994.8	23136.9	26156.3	25758.8	21913.0	15253.4	8897.4	1889.4
47.5°	728.1	3064.1	11693.5	20483.7	28988.1	31395.6	31297.3	26513.6	19215.2	12162.5	3202.5
50°	1170.2	4703.3	15490.1	24258.0	32713.2	34781.2	34535.6	28434.2	21475.3	14391.3	4104.8
52.5°	1563.3	6271.1	17875.2	25647.1	33825.4	36290.9	35991.7	29135.5	22069.4	15047.9	4354.9
55°	1661.6	6838.3	18585.4	26075.9	34562.4	37568.4	37135.1	29604.5	22145.3	14578.9	3939.5
57.5°	1612.4	6302.3	18125.4	26495.7	35589.7	38881.6	38305.4	30520.1	22399.9	13783.9	3278.5
59°	1527.6	5641.3	17839.5	26830.7	36156.9	39087.0	38546.6	30721.1	22569.6	13422.1	2876.5
60°	1429.3	5194.6	17616.2	27049.6	36121.2	38765.4	38207.1	30627.3	22636.6	13109.4	2684.4
62.5°	1103.2	4145.0	17294.6	26893.3	33865.6	35830.9	35513.8	28331.5	21654.0	12108.9	2117.2
65°	857.6	3171.3	16115.4	23985.5	28818.4	30140.5	30042.2	23990.0	18223.6	10438.4	1527.6
67.5°	678.9	2313.7	13627.5	19425.1	23186.0	25066.4	24995.0	19474.3	13833.0	7977.3	1098.8
70°	553.9	1648.2	9344.1	14645.9	18545.2	20912.5	20809.8	15673.2	10250.8	5060.6	799.5
72.5°	469.0	1054.1	5668.1	11041.4	15476.7	16830.1	16530.8	12644.9	7454.7	2755.9	634.3
75°	397.5	647.7	2809.5	6883.0	9219.0	9210.1	8910.8	6695.4	4002.1	1348.9	504.7
77.5°	321.6	455.6	1103.2	1889.4	2907.7	3600.1	3542.0	2371.8	1197.0	393.1	312.7
80°	209.9	214.4	294.8	518.1	799.5	884.4	1005.0	723.6	348.4	187.6	129.5
82.5°	93.8	102.7	134.0	169.7	169.7	156.3	138.5	102.7	75.9	62.5	31.3
85°	22.3	31.3	22.3	26.8	22.3	17.9	17.9	8.9	0.0	0.0	0.0
87.5°	4.5	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°	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
2.5°	35.7	35.7	35.7	31.3	31.3	31.3	26.8	26.8	26.8	22.3	22.3
5°	44.7	40.2	35.7	35.7	31.3	31.3	26.8	22.3	22.3	22.3	17.9
7.5°	49.1	44.7	40.2	35.7	31.3	26.8	26.8	22.3	17.9	17.9	17.9
10°	58.1	53.6	44.7	35.7	31.3	26.8	22.3	22.3	17.9	13.4	13.4
12.5°	67.0	58.1	49.1	40.2	31.3	26.8	22.3	22.3	17.9	13.4	8.9
15°	75.9	67.0	53.6	40.2	31.3	26.8	22.3	22.3	13.4	8.9	4.5
17.5°	84.9	71.5	53.6	44.7	31.3	26.8	22.3	17.9	8.9	4.5	0.0
20°	89.3	75.9	58.1	44.7	31.3	26.8	22.3	13.4	4.5	0.0	0.0
22.5°	98.3	84.9	62.5	44.7	31.3	22.3	13.4	4.5	0.0	0.0	0.0
25°	116.1	89.3	62.5	44.7	31.3	22.3	8.9	0.0	0.0	0.0	0.0
27.5°	129.5	98.3	62.5	44.7	31.3	17.9	4.5	0.0	0.0	0.0	0.0
30°	151.9	107.2	67.0	44.7	31.3	13.4	4.5	0.0	0.0	0.0	0.0
32.5°	187.6	116.1	67.0	44.7	26.8	13.4	0.0	0.0	0.0	0.0	0.0
35°	227.8	134.0	67.0	44.7	26.8	13.4	0.0	0.0	0.0	0.0	0.0
37.5°	232.3	142.9	67.0	44.7	26.8	8.9	0.0	0.0	0.0	0.0	0.0
40°	241.2	134.0	71.5	44.7	26.8	8.9	0.0	0.0	0.0	0.0	0.0
42.5°	276.9	125.1	75.9	44.7	26.8	8.9	0.0	0.0	0.0	0.0	0.0
45°	410.9	129.5	75.9	49.1	26.8	13.4	0.0	0.0	0.0	0.0	0.0
47.5°	714.7	134.0	71.5	49.1	26.8	13.4	0.0	0.0	0.0	0.0	0.0
50°	915.6	156.3	71.5	53.6	31.3	8.9	0.0	0.0	0.0	0.0	0.0
52.5°	973.7	183.1	71.5	58.1	40.2	4.5	0.0	0.0	0.0	0.0	0.0
55°	946.9	214.4	75.9	62.5	49.1	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	875.4	232.3	80.4	67.0	53.6	0.0	0.0	0.0	0.0	0.0	0.0
59°	799.5	245.7	93.8	71.5	53.6	0.0	0.0	0.0	0.0	0.0	0.0
60°	737.0	259.1	98.3	75.9	53.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	594.1	276.9	107.2	89.3	44.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	518.1	290.3	111.7	98.3	40.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	473.5	299.3	120.6	102.7	35.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	437.7	294.8	129.5	98.3	31.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	397.5	281.4	156.3	89.3	26.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	357.3	254.6	169.7	80.4	17.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	259.1	214.4	156.3	71.5	8.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	111.7	116.1	111.7	53.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.3	26.8	22.3	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
2.5°	22.3	22.3	22.3	22.3	26.8	26.8	35.7	44.7	53.6	58.1	58.1
5°	17.9	17.9	17.9	17.9	17.9	22.3	26.8	35.7	49.1	53.6	53.6
7.5°	13.4	13.4	13.4	13.4	13.4	13.4	22.3	31.3	44.7	49.1	53.6
10°	13.4	8.9	8.9	4.5	4.5	8.9	13.4	26.8	40.2	44.7	49.1
12.5°	8.9	4.5	4.5	0.0	0.0	4.5	8.9	22.3	35.7	40.2	44.7
15°	4.5	0.0	0.0	0.0	0.0	0.0	4.5	17.9	31.3	35.7	44.7
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.4	26.8	35.7	40.2
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	22.3	31.3	35.7
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	17.9	26.8	31.3
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.4	17.9	22.3
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	13.4	17.9
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	13.4	17.9
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	8.9	13.4
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	8.9	13.4
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	8.9	8.9
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	8.9
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	8.9
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	8.9
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	8.9
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	8.9
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	8.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	8.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5
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°	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
2.5°	62.5	62.5	58.1	53.6	53.6	53.6	58.1	62.5	62.5	62.5
5°	58.1	58.1	53.6	53.6	53.6	53.6	58.1	67.0	71.5	71.5
7.5°	58.1	58.1	53.6	53.6	53.6	53.6	58.1	67.0	71.5	75.9
10°	53.6	53.6	53.6	53.6	49.1	53.6	58.1	67.0	80.4	80.4
12.5°	53.6	53.6	53.6	53.6	49.1	53.6	62.5	71.5	84.9	89.3
15°	53.6	53.6	53.6	49.1	49.1	53.6	62.5	75.9	89.3	98.3
17.5°	49.1	53.6	53.6	49.1	49.1	53.6	62.5	75.9	98.3	111.7
20°	44.7	49.1	53.6	49.1	49.1	49.1	62.5	75.9	102.7	120.6
22.5°	40.2	44.7	49.1	49.1	44.7	49.1	62.5	80.4	111.7	134.0
25°	35.7	40.2	40.2	44.7	44.7	49.1	62.5	80.4	116.1	151.9
27.5°	26.8	31.3	35.7	40.2	40.2	49.1	62.5	84.9	125.1	187.6
30°	22.3	26.8	31.3	35.7	40.2	49.1	62.5	84.9	134.0	236.7
32.5°	22.3	26.8	31.3	35.7	40.2	44.7	62.5	89.3	147.4	294.8
35°	17.9	22.3	26.8	35.7	35.7	44.7	62.5	89.3	160.8	384.1
37.5°	17.9	22.3	26.8	35.7	35.7	44.7	62.5	89.3	196.5	428.8
40°	13.4	17.9	22.3	35.7	35.7	44.7	67.0	93.8	201.0	433.3
42.5°	13.4	17.9	22.3	31.3	35.7	44.7	67.0	93.8	187.6	446.7
45°	13.4	17.9	22.3	35.7	40.2	49.1	67.0	98.3	183.1	509.2
47.5°	13.4	17.9	22.3	35.7	44.7	49.1	67.0	98.3	187.6	728.1
50°	13.4	17.9	22.3	35.7	49.1	49.1	67.0	98.3	205.5	1170.2
52.5°	8.9	13.4	17.9	31.3	40.2	53.6	71.5	93.8	218.9	1563.3
55°	8.9	8.9	13.4	26.8	35.7	58.1	75.9	93.8	254.6	1661.6
57.5°	8.9	8.9	13.4	22.3	31.3	62.5	80.4	93.8	294.8	1612.4
59°	8.9	8.9	8.9	22.3	26.8	62.5	80.4	98.3	299.3	1527.6
60°	8.9	8.9	8.9	17.9	26.8	62.5	84.9	102.7	303.7	1429.3
62.5°	4.5	4.5	4.5	17.9	22.3	62.5	93.8	125.1	312.7	1103.2
65°	8.9	8.9	4.5	13.4	22.3	53.6	107.2	134.0	317.1	857.6
67.5°	8.9	8.9	8.9	17.9	22.3	53.6	111.7	138.5	317.1	678.9
70°	8.9	8.9	8.9	17.9	26.8	53.6	111.7	142.9	312.7	553.9
72.5°	8.9	8.9	8.9	17.9	26.8	49.1	102.7	147.4	299.3	469.0
75°	8.9	8.9	8.9	13.4	22.3	44.7	98.3	160.8	272.5	397.5
77.5°	8.9	8.9	8.9	8.9	17.9	35.7	89.3	178.7	241.2	321.6
80°	13.4	8.9	8.9	8.9	13.4	31.3	84.9	174.2	201.0	209.9
82.5°	13.4	8.9	8.9	4.5	8.9	22.3	67.0	134.0	102.7	93.8
85°	8.9	8.9	8.9	4.5	4.5	13.4	31.3	40.2	31.3	22.3
87.5°	8.9	8.9	8.9	4.5	4.5	4.5	4.5	4.5	4.5	4.5
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: SP1-2407-184-5

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-735-U-5WQ

Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

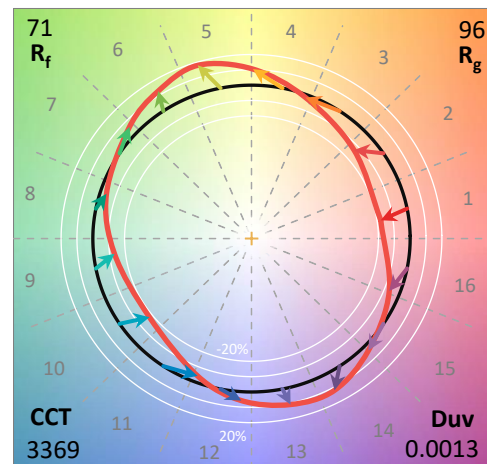
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-5
 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-735-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K): 3369
 CIE u' : 0.2386
 CIE v' : 0.5156
 Duv: 0.0013
 CIE x: 0.4143
 CIE y: 0.3980
 CIE z: 0.1877
 Peak Wavelength (nm): 590
 Dominant Wavelength (nm): 580
 Purity: 43.80166
 R_f: 71.4
 R_g: 96

CRI (Ra): 70.1
 R1: 66.6
 R2: 77.6
 R3: 88.5
 R4: 69.5
 R5: 66.4
 R6: 69.6
 R7: 77.5
 R8: 44.9
 R9: -40.2
 R10: 49.1
 R11: 66.3
 R12: 45.7
 R13: 68.0
 R14: 93.4
 R15: 57.6



Test Conditions

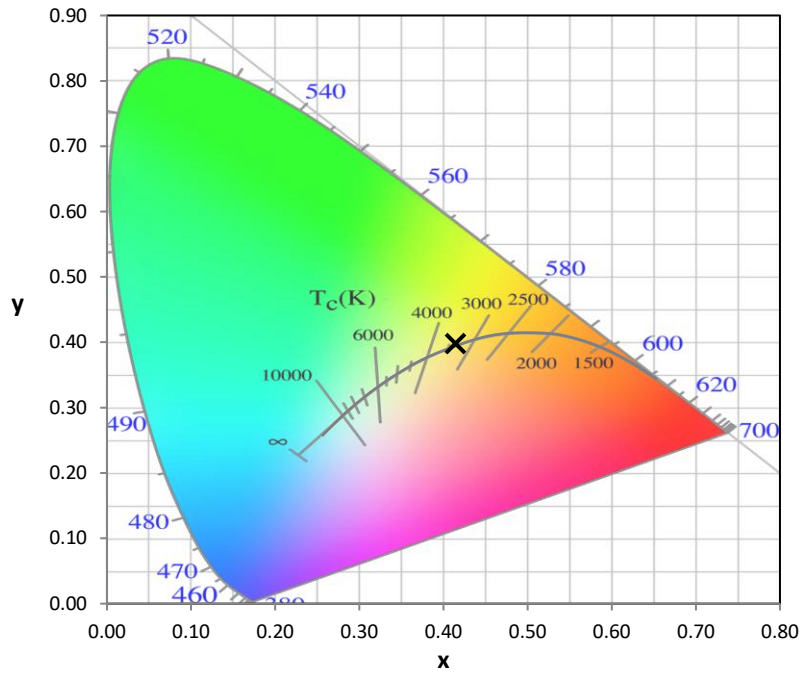
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-5

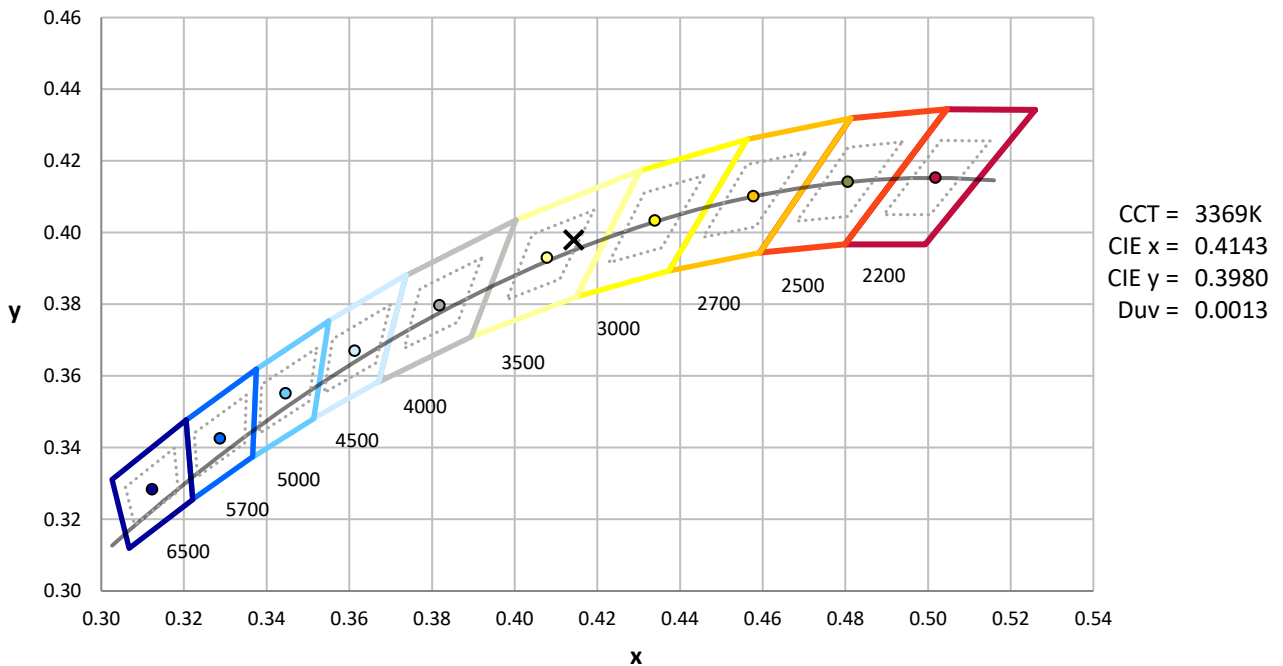
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-5

CIE 1931 Chromaticity Diagram



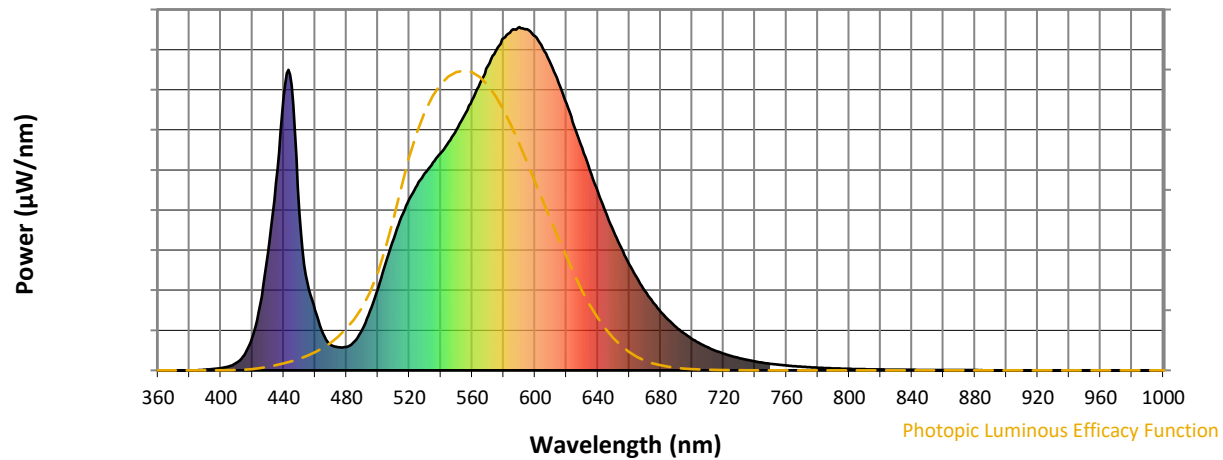
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

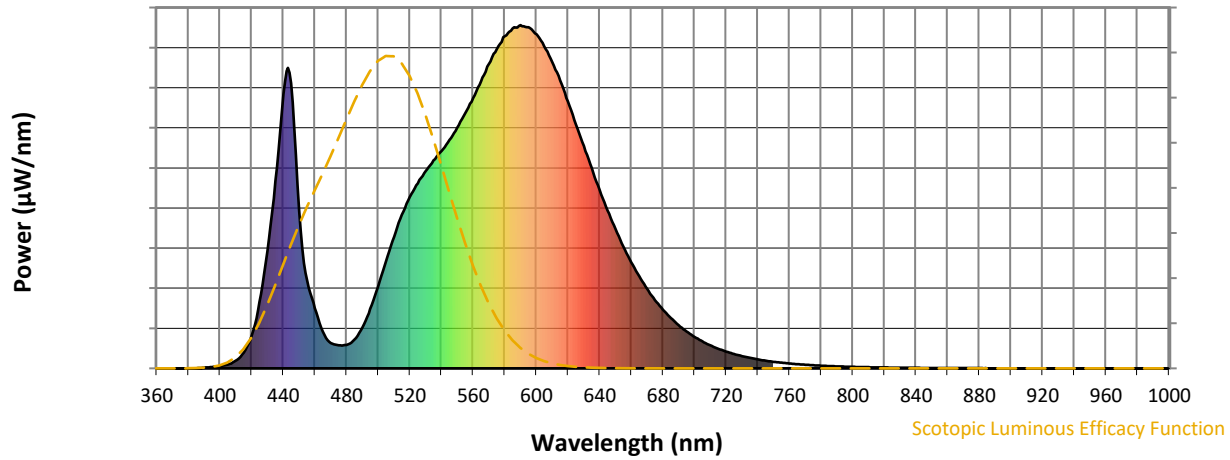


Photopic Lumens: NR

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

Scotopic Flux vs. Wavelength



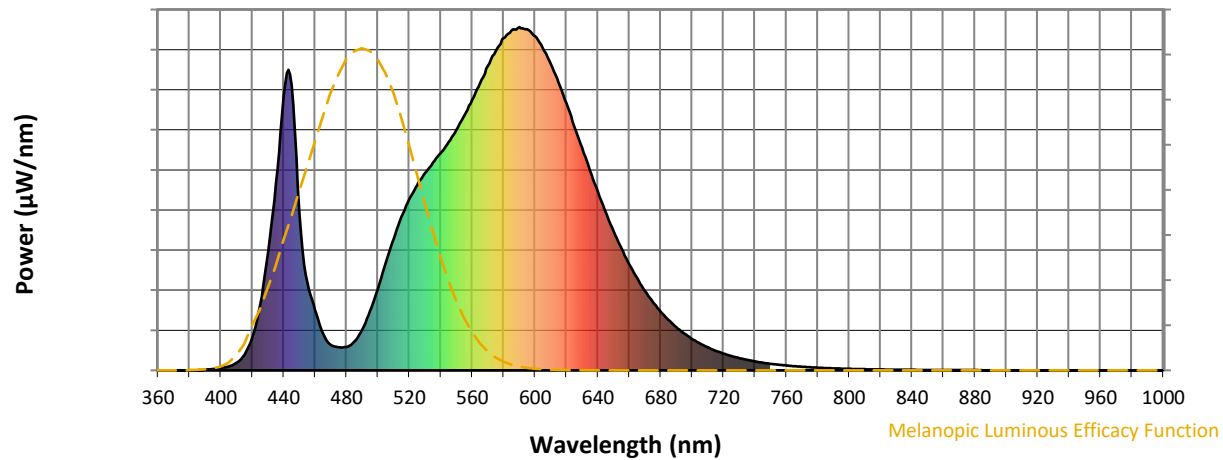
Scotopic Lumens: NR

S/P: 1.29

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.36

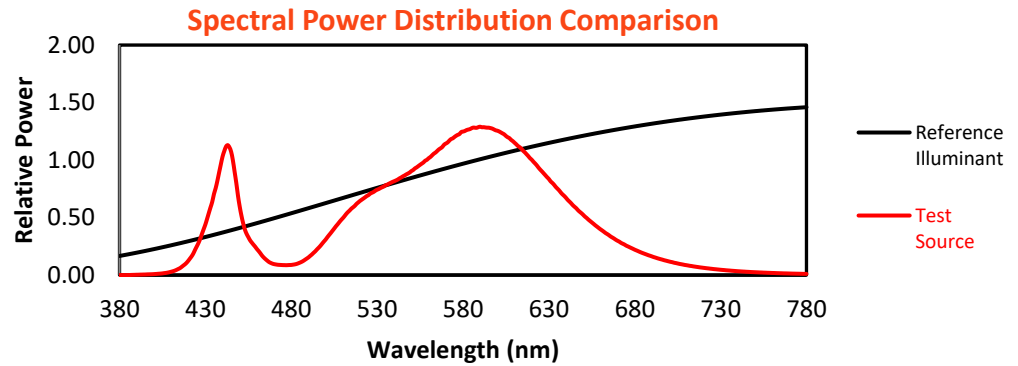
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

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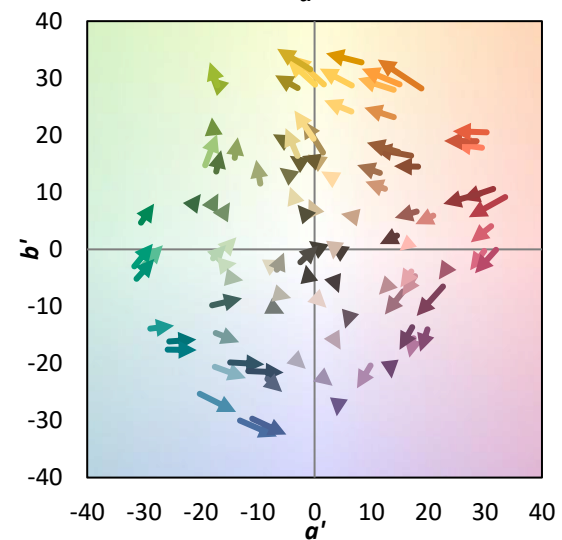
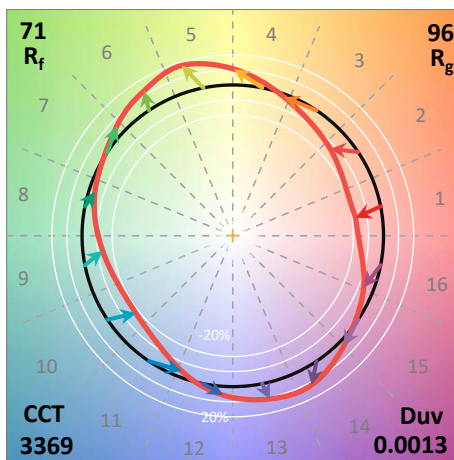
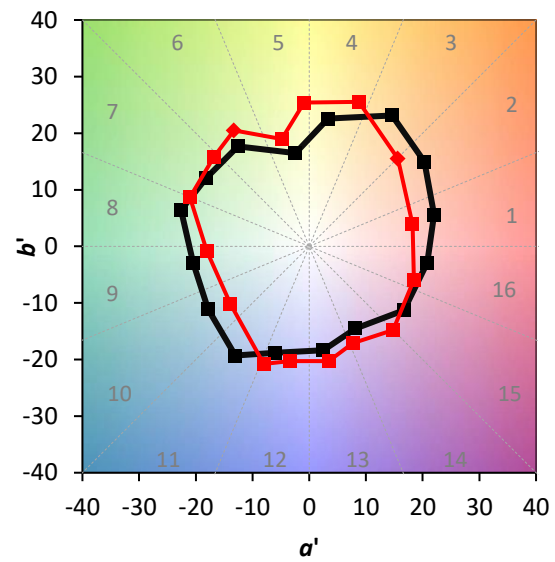
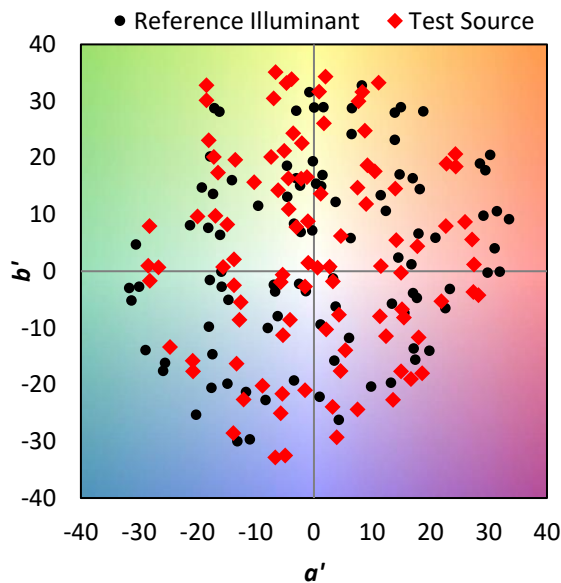
TM-30-18

Summary

$R_f = 71.4$
 $R_g = 96$
 $CIE R_a = 70.1$
 $R_g = -40.2$

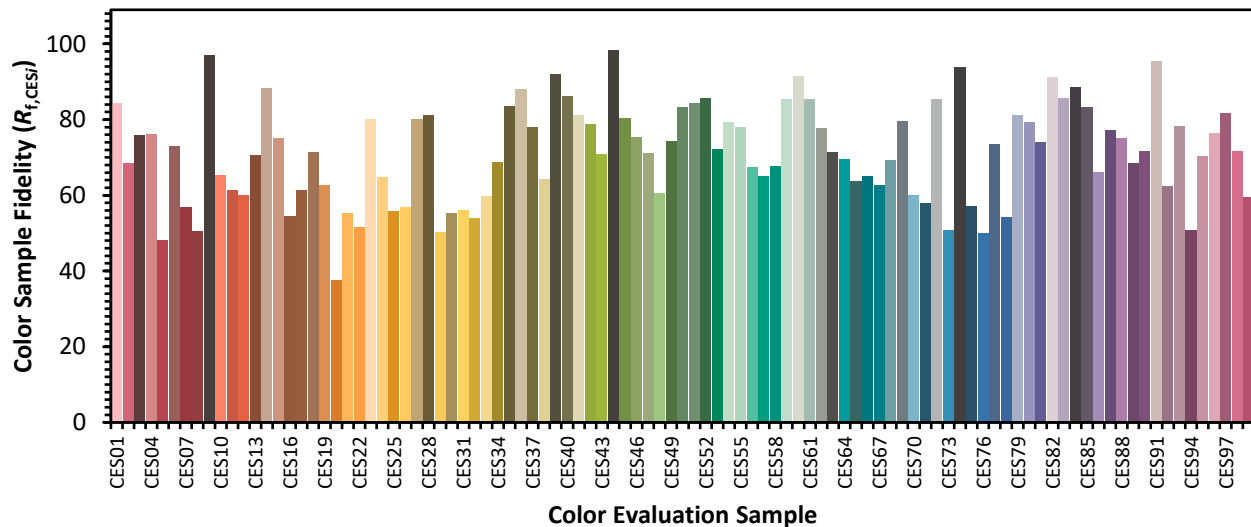


Color Vector Graphics

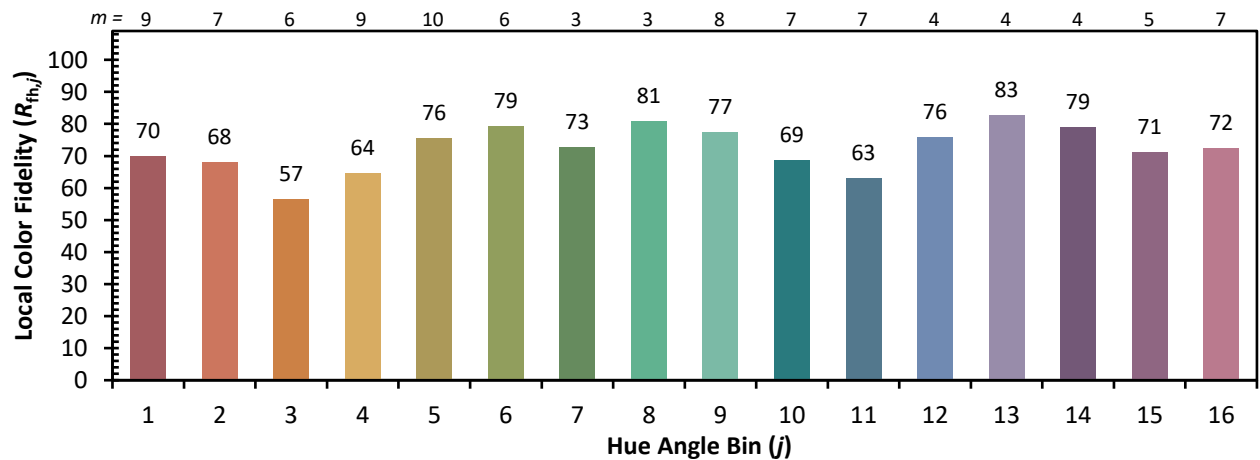
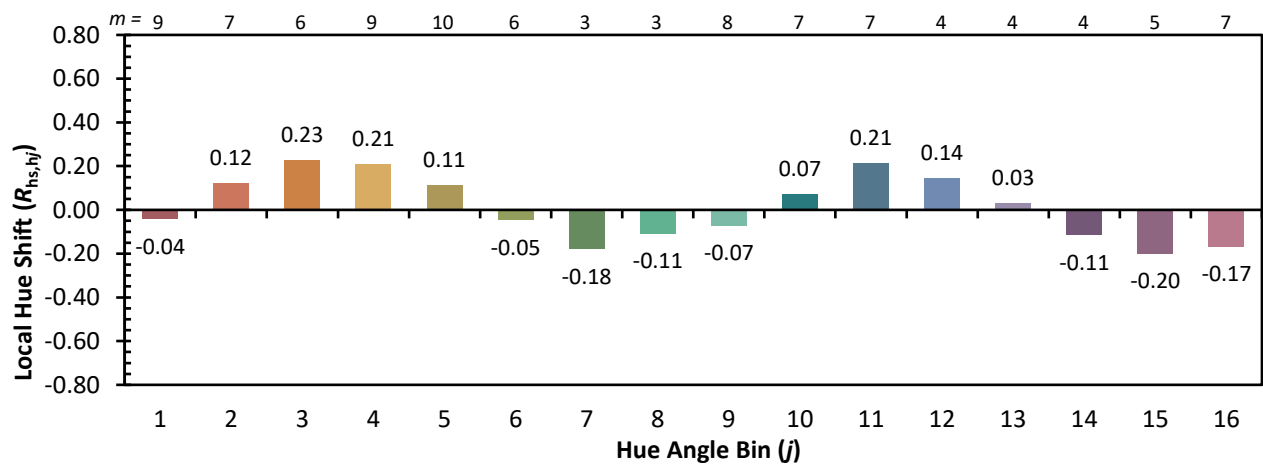
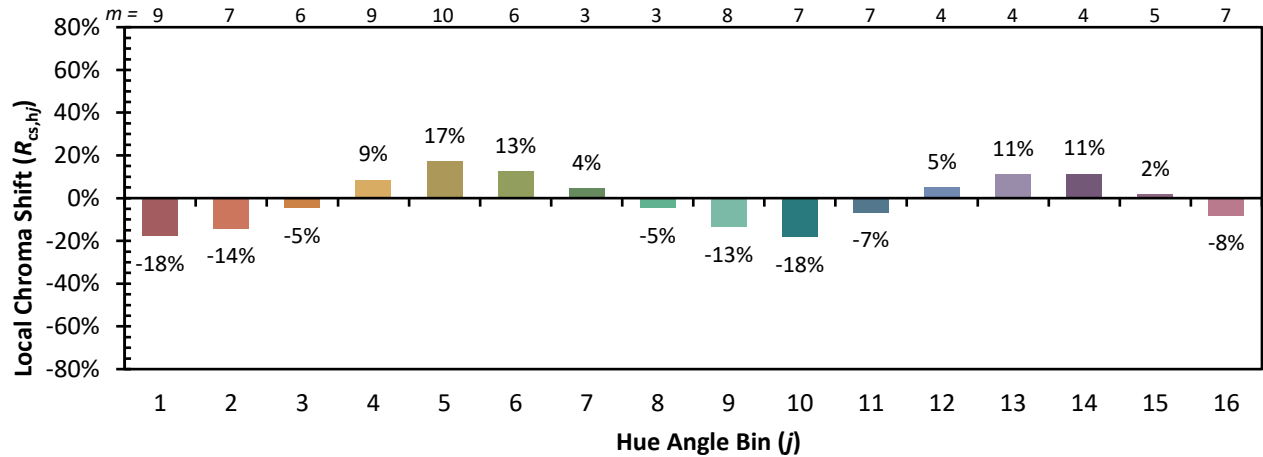


Individual Sample Fidelity Index ($R_{f,i}$)

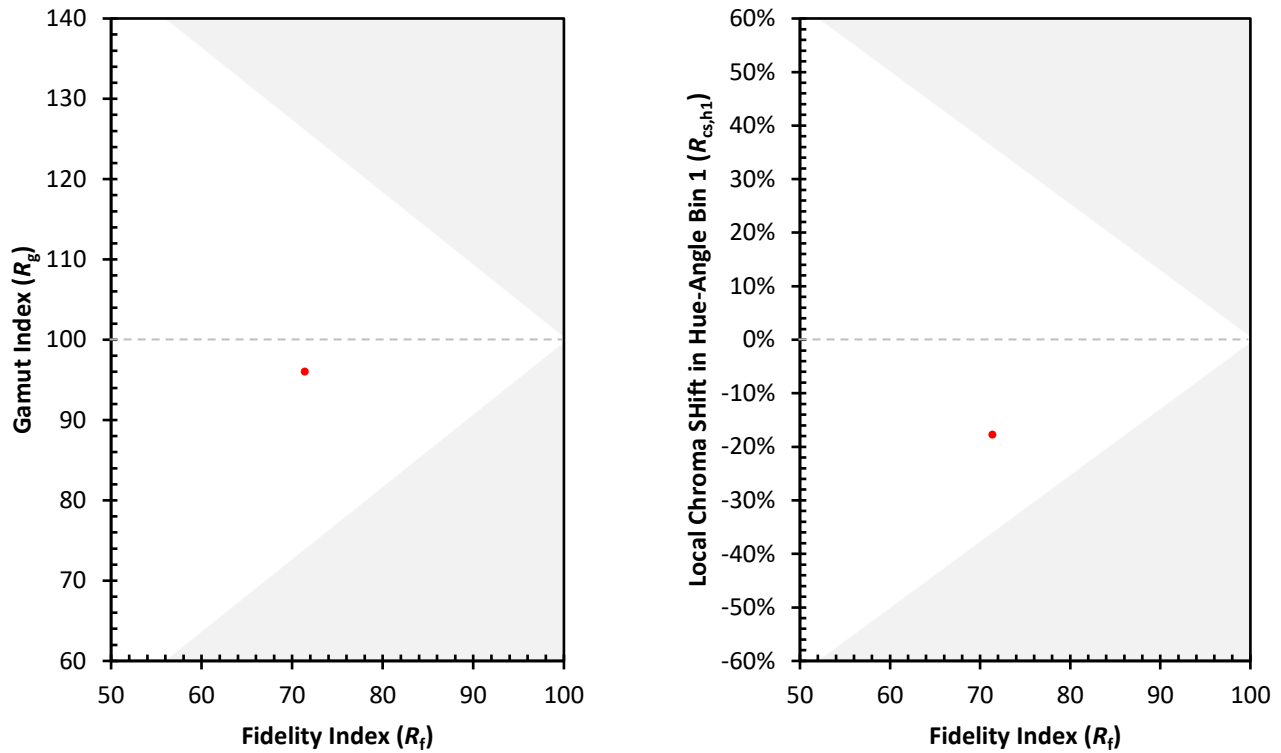
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82 = 91
CES08 = 39	CES33 = 60	CES58 = 68	CES83 = 86
CES09 = 29	CES34 = 69	CES59 = 85	CES84 = 89
CES10 = 75	CES35 = 83	CES60 = 91	CES85 = 83
CES11 = 58	CES36 = 88	CES61 = 85	CES86 = 66
CES12 = 64	CES37 = 78	CES62 = 78	CES87 = 77
CES13 = 43	CES38 = 64	CES63 = 71	CES88 = 75
CES14 = 74	CES39 = 92	CES64 = 70	CES89 = 68
CES15 = 71	CES40 = 86	CES65 = 64	CES90 = 72
CES16 = 47	CES41 = 81	CES66 = 65	CES91 = 95
CES17 = 50	CES42 = 79	CES67 = 63	CES92 = 62
CES18 = 56	CES43 = 71	CES68 = 69	CES93 = 78
CES19 = 72	CES44 = 98	CES69 = 80	CES94 = 51
CES20 = 65	CES45 = 80	CES70 = 60	CES95 = 70
CES21 = 87	CES46 = 75	CES71 = 58	CES96 = 76
CES22 = 79	CES47 = 71	CES72 = 85	CES97 = 82
CES23 = 92	CES48 = 61	CES73 = 51	CES98 = 72
CES24 = 91	CES49 = 74	CES74 = 94	CES99 = 60
CES25 = 72	CES50 = 83	CES75 = 57	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)