

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: P1068002

Luminaire Tested: **NAV-SA4B-750-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1068002
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA4B-750-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 4xLight Square PACKAGE
70CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15210.7 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 144.1
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



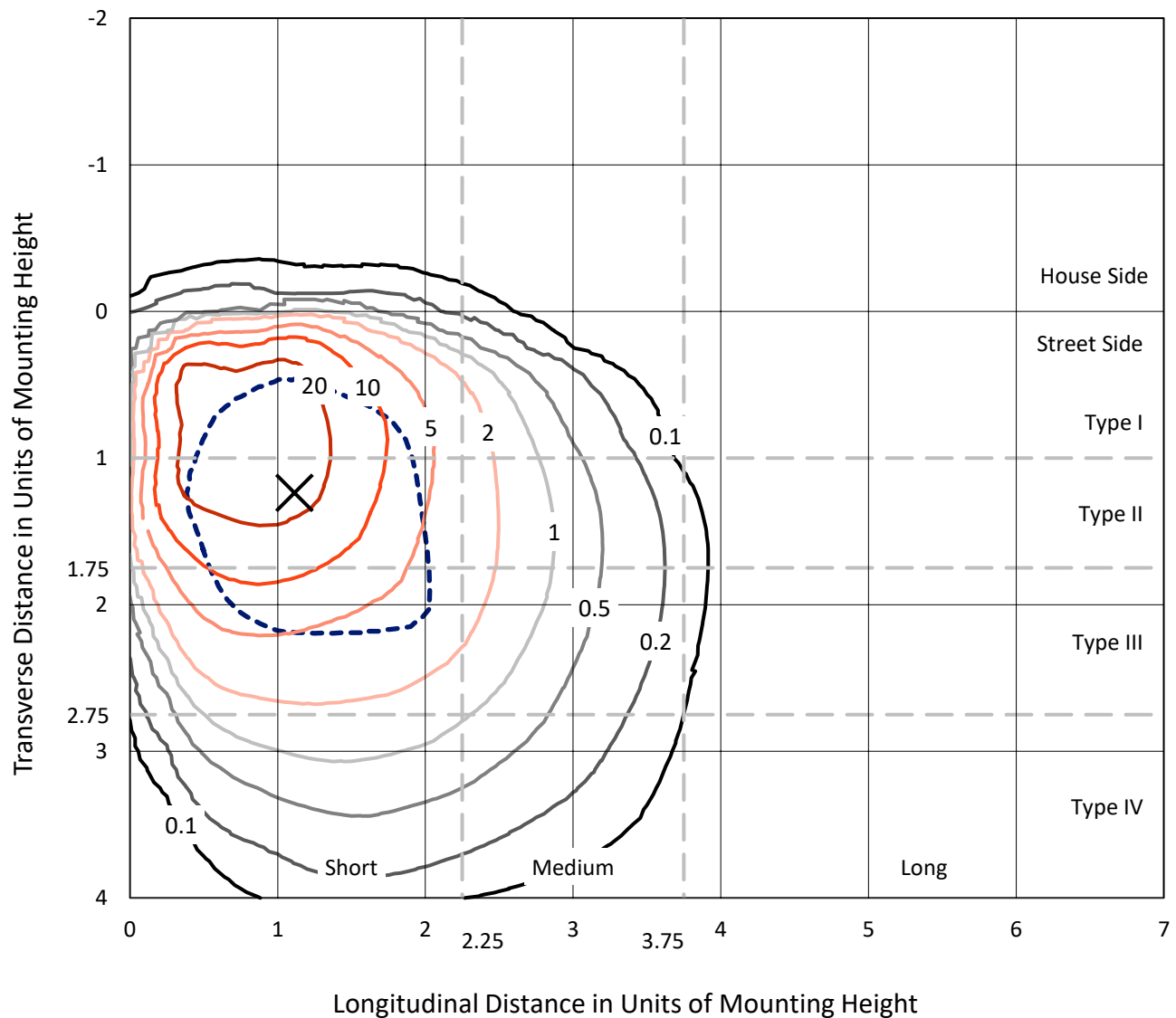
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CATALOG NUMBER: NAV-SA4B-750-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

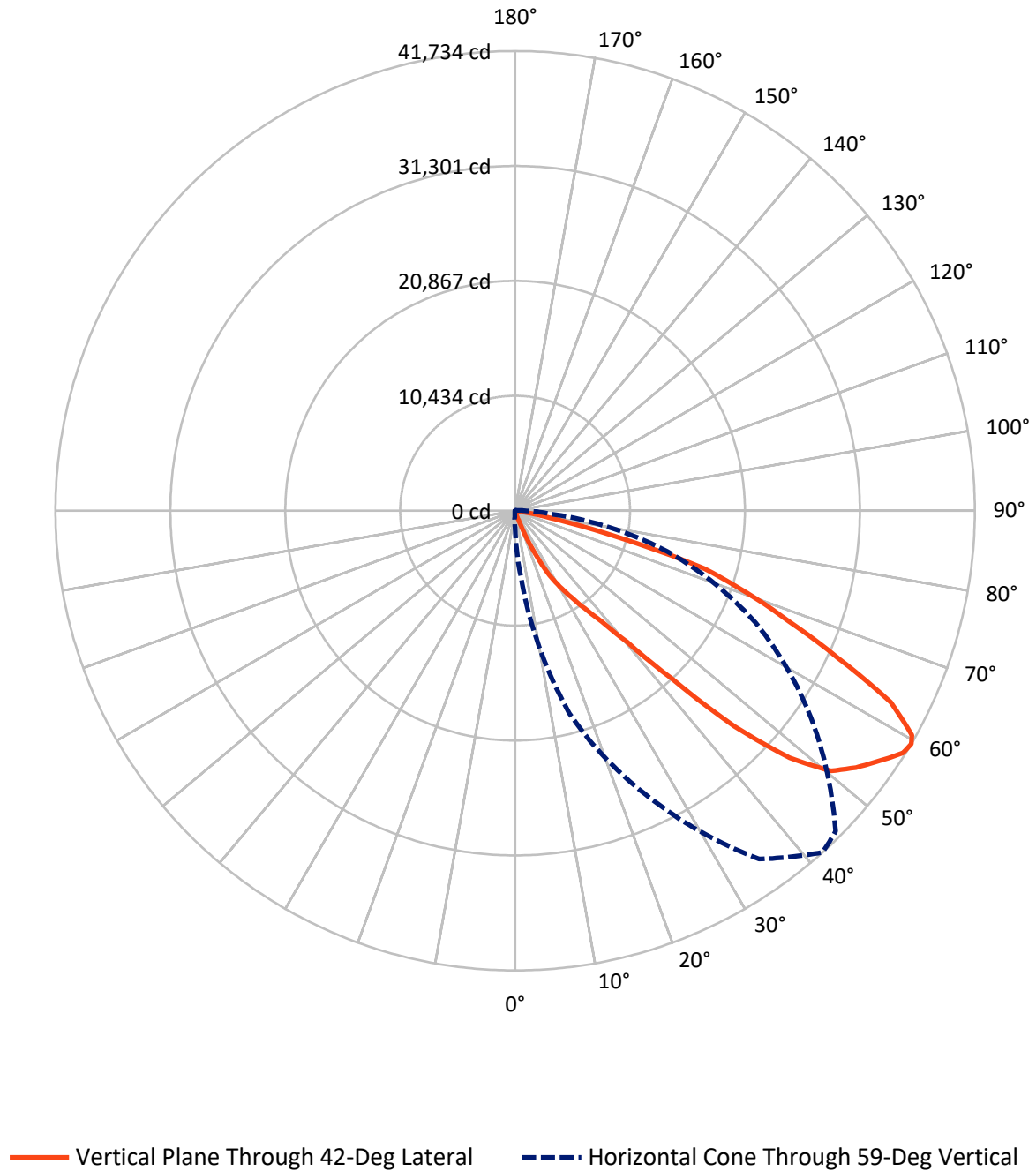


Based on 15 foot mounting height. Maximum calculated value = 45.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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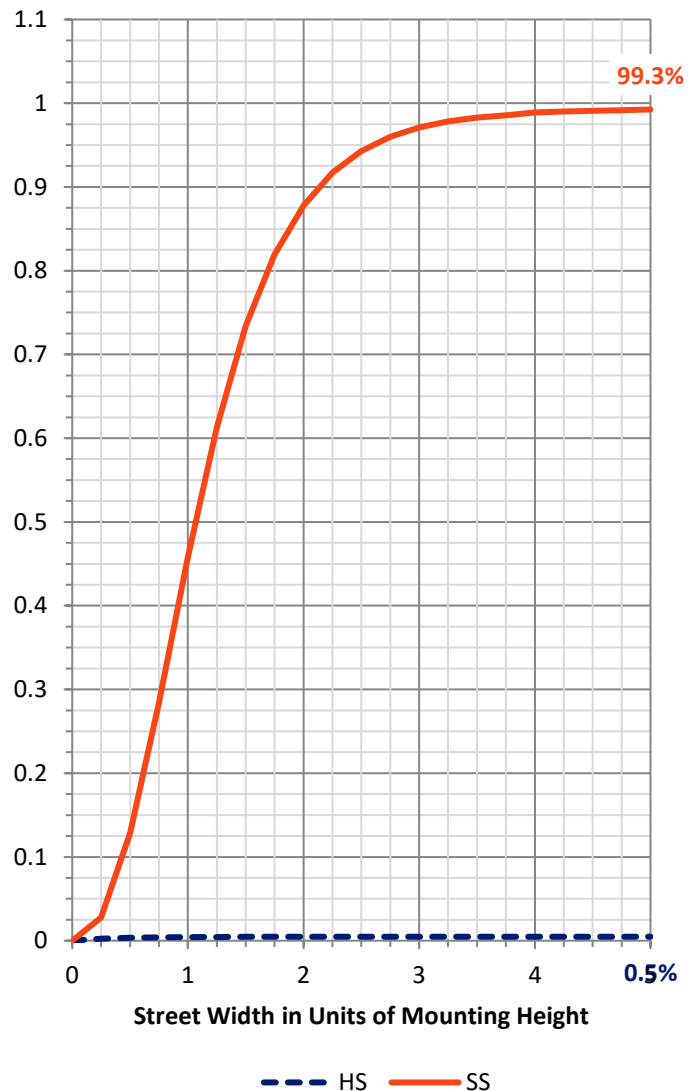
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	73.3	0.0	73.3
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	15137.4	0.0	15137.4
	% Fixture	99.5	0.0	99.5
Total	Lumens	15210.7	0.0	15210.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.5	0.0
10°-20°	22.2	0.1
20°-30°	283.7	1.9
30°-40°	956.6	6.3
40°-50°	2889.2	19.0
50°-60°	5100.2	33.5
60°-70°	4490.8	29.5
70°-80°	1429.4	9.4
80°-90°	34.2	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°	15210.7	100.0
0°-180°	15210.7	100.0



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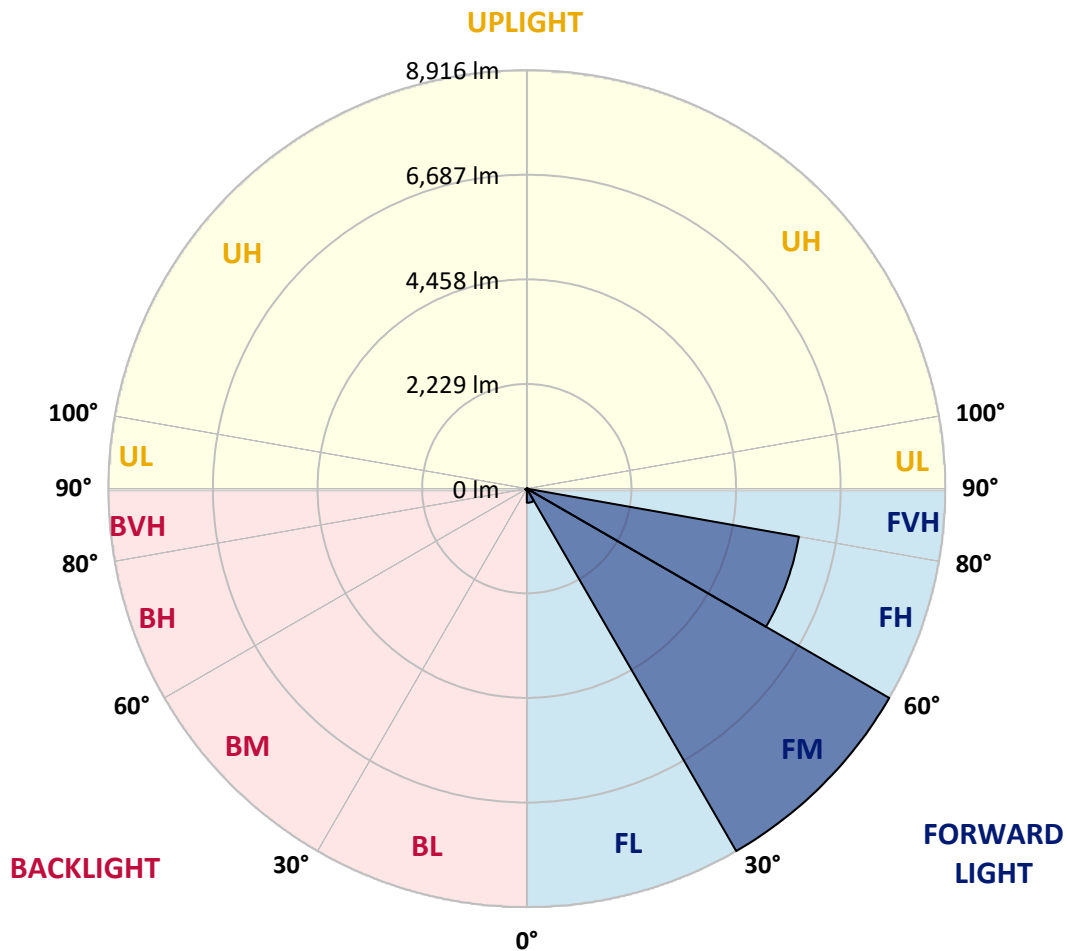
CATALOG NUMBER: NAV-SA4B-750-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	302.2	2.0			
FM	(30°-60°)	8916.0	58.6			
FH	(60°-80°)	5886.7	38.7			G3/7500
FVH	(80°-90°)	32.5	0.2			G1/100
BL	(0°-30°)	8.2	0.1	B0/110		
BM	(30°-60°)	29.9	0.2	B0/220		
BH	(60°-80°)	33.5	0.2	B0/110		G0/110
BVH	(80°-90°)	1.7	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°	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
2.5°	66.8	66.8	62.0	57.2	52.5	47.7	47.7	47.7	42.9	42.9	38.2
5°	76.3	76.3	71.5	66.8	66.8	62.0	62.0	57.2	52.5	52.5	47.7
7.5°	81.1	81.1	81.1	81.1	76.3	76.3	76.3	71.5	66.8	62.0	57.2
10°	85.8	90.6	95.4	95.4	95.4	95.4	95.4	90.6	81.1	76.3	66.8
12.5°	95.4	100.2	109.7	119.2	119.2	124.0	119.2	114.5	104.9	90.6	76.3
15°	104.9	114.5	128.8	147.8	166.9	171.7	171.7	157.4	138.3	109.7	90.6
17.5°	119.2	133.5	171.7	233.7	300.5	352.9	352.9	314.8	219.4	143.1	104.9
20°	128.8	157.4	276.6	562.7	858.4	1077.8	1034.9	915.7	491.2	224.1	114.5
22.5°	143.1	200.3	586.6	1478.4	2289.1	2689.7	2594.4	1969.6	1101.7	400.6	138.3
25°	162.1	290.9	1163.7	2770.8	4254.0	4688.0	4626.0	3676.9	2007.8	672.4	176.5
27.5°	200.3	429.2	1864.7	4201.5	6276.1	6648.1	6624.2	5384.3	3209.6	1082.6	228.9
30°	252.8	624.7	2766.1	5708.6	7616.2	7992.9	7873.7	6633.8	4330.3	1654.9	295.7
32.5°	314.8	872.7	3581.6	6819.8	8851.4	9347.4	9204.3	7721.1	5231.7	2141.3	438.8
35°	410.1	1116.0	4387.5	7802.2	10277.3	10906.8	10668.4	8841.8	6009.0	2689.7	529.4
37.5°	457.8	1259.0	5126.7	8870.5	11879.7	12738.2	12556.9	10258.2	6800.7	3390.8	648.6
40°	462.6	1430.7	5894.6	10263.0	14145.0	15675.9	15351.6	12690.5	8274.3	4292.2	834.6
42.5°	476.9	1688.2	6891.3	12638.0	18594.6	20793.1	20425.9	17163.8	11617.4	6099.6	1182.7
45°	543.7	2174.7	8922.9	17078.0	24703.7	27927.6	27503.2	23397.0	16286.3	9500.0	2017.3
47.5°	777.4	3271.6	12485.4	21870.9	30951.2	33521.7	33416.8	28309.1	20516.5	12986.1	3419.4
50°	1249.5	5021.8	16539.1	25900.8	34928.6	37136.7	36874.4	30359.8	22929.6	15365.9	4382.8
52.5°	1669.2	6695.8	19085.8	27383.9	36116.1	38748.6	38429.1	31108.6	23563.9	16067.0	4649.8
55°	1774.1	7301.4	19844.1	27841.8	36903.0	40112.6	39650.0	31609.3	23645.0	15566.2	4206.3
57.5°	1721.6	6729.1	19352.8	28290.1	37999.9	41514.7	40899.5	32587.0	23916.8	14717.3	3500.5
59°	1631.0	6023.3	19047.6	28647.7	38605.5	41734.0	41157.0	32801.6	24098.1	14331.0	3071.3
60°	1526.1	5546.4	18809.2	28881.4	38567.4	41390.7	40794.5	32701.4	24169.6	13997.2	2866.2
62.5°	1178.0	4425.7	18465.8	28714.5	36159.0	38257.4	37918.8	30250.1	23120.4	12928.9	2260.5
65°	915.7	3386.0	17206.8	25609.8	30770.0	32181.6	32076.7	25614.6	19457.8	11145.3	1631.0
67.5°	724.9	2470.4	14550.4	20740.6	24756.2	26764.0	26687.7	20793.1	14769.8	8517.5	1173.2
70°	591.4	1759.8	9976.9	15637.7	19801.1	22328.7	22219.0	16734.6	10945.0	5403.3	853.7
72.5°	500.8	1125.5	6051.9	11789.1	16524.8	17969.8	17650.3	13501.2	7959.6	2942.5	677.2
75°	424.4	691.5	2999.7	7349.1	9843.3	9833.8	9514.3	7148.8	4273.1	1440.3	538.9
77.5°	343.4	486.4	1178.0	2017.3	3104.7	3843.9	3781.9	2532.4	1278.1	419.7	333.8
80°	224.1	228.9	314.8	553.2	853.7	944.3	1073.0	772.6	372.0	200.3	138.3
82.5°	100.2	109.7	143.1	181.2	181.2	166.9	147.8	109.7	81.1	66.8	33.4
85°	23.8	33.4	23.8	28.6	23.8	19.1	19.1	9.5	0.0	0.0	0.0
87.5°	4.8	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°	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
2.5°	38.2	38.2	38.2	33.4	33.4	33.4	28.6	28.6	28.6	23.8	23.8
5°	47.7	42.9	38.2	38.2	33.4	33.4	28.6	23.8	23.8	23.8	19.1
7.5°	52.5	47.7	42.9	38.2	33.4	28.6	28.6	23.8	19.1	19.1	19.1
10°	62.0	57.2	47.7	38.2	33.4	28.6	23.8	23.8	19.1	14.3	14.3
12.5°	71.5	62.0	52.5	42.9	33.4	28.6	23.8	23.8	19.1	14.3	9.5
15°	81.1	71.5	57.2	42.9	33.4	28.6	23.8	23.8	14.3	9.5	4.8
17.5°	90.6	76.3	57.2	47.7	33.4	28.6	23.8	19.1	9.5	4.8	0.0
20°	95.4	81.1	62.0	47.7	33.4	28.6	23.8	14.3	4.8	0.0	0.0
22.5°	104.9	90.6	66.8	47.7	33.4	23.8	14.3	4.8	0.0	0.0	0.0
25°	124.0	95.4	66.8	47.7	33.4	23.8	9.5	0.0	0.0	0.0	0.0
27.5°	138.3	104.9	66.8	47.7	33.4	19.1	4.8	0.0	0.0	0.0	0.0
30°	162.1	114.5	71.5	47.7	33.4	14.3	4.8	0.0	0.0	0.0	0.0
32.5°	200.3	124.0	71.5	47.7	28.6	14.3	0.0	0.0	0.0	0.0	0.0
35°	243.2	143.1	71.5	47.7	28.6	14.3	0.0	0.0	0.0	0.0	0.0
37.5°	248.0	152.6	71.5	47.7	28.6	9.5	0.0	0.0	0.0	0.0	0.0
40°	257.5	143.1	76.3	47.7	28.6	9.5	0.0	0.0	0.0	0.0	0.0
42.5°	295.7	133.5	81.1	47.7	28.6	9.5	0.0	0.0	0.0	0.0	0.0
45°	438.8	138.3	81.1	52.5	28.6	14.3	0.0	0.0	0.0	0.0	0.0
47.5°	763.0	143.1	76.3	52.5	28.6	14.3	0.0	0.0	0.0	0.0	0.0
50°	977.7	166.9	76.3	57.2	33.4	9.5	0.0	0.0	0.0	0.0	0.0
52.5°	1039.7	195.5	76.3	62.0	42.9	4.8	0.0	0.0	0.0	0.0	0.0
55°	1011.0	228.9	81.1	66.8	52.5	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	934.7	248.0	85.8	71.5	57.2	0.0	0.0	0.0	0.0	0.0	0.0
59°	853.7	262.3	100.2	76.3	57.2	0.0	0.0	0.0	0.0	0.0	0.0
60°	786.9	276.6	104.9	81.1	57.2	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	634.3	295.7	114.5	95.4	47.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	553.2	310.0	119.2	104.9	42.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	505.5	319.5	128.8	109.7	38.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	467.4	314.8	138.3	104.9	33.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	424.4	300.5	166.9	95.4	28.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	381.5	271.8	181.2	85.8	19.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	276.6	228.9	166.9	76.3	9.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	119.2	124.0	119.2	57.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	23.8	28.6	23.8	14.3	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°	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
2.5°	23.8	23.8	23.8	23.8	28.6	28.6	38.2	47.7	57.2	62.0	62.0
5°	19.1	19.1	19.1	19.1	19.1	23.8	28.6	38.2	52.5	57.2	57.2
7.5°	14.3	14.3	14.3	14.3	14.3	14.3	23.8	33.4	47.7	52.5	57.2
10°	14.3	9.5	9.5	4.8	4.8	9.5	14.3	28.6	42.9	47.7	52.5
12.5°	9.5	4.8	4.8	0.0	0.0	4.8	9.5	23.8	38.2	42.9	47.7
15°	4.8	0.0	0.0	0.0	0.0	0.0	4.8	19.1	33.4	38.2	47.7
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	28.6	38.2	42.9
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	23.8	33.4	38.2
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	19.1	28.6	33.4
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	19.1	23.8
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	14.3	19.1
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	14.3	19.1
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.5	14.3
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.5	14.3
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.5	9.5
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.5
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.5
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.5
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.5
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.5
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8
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°	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
2.5°	66.8	66.8	62.0	57.2	57.2	57.2	62.0	66.8	66.8	66.8
5°	62.0	62.0	57.2	57.2	57.2	57.2	62.0	71.5	76.3	76.3
7.5°	62.0	62.0	57.2	57.2	57.2	57.2	62.0	71.5	76.3	81.1
10°	57.2	57.2	57.2	57.2	52.5	57.2	62.0	71.5	85.8	85.8
12.5°	57.2	57.2	57.2	57.2	52.5	57.2	66.8	76.3	90.6	95.4
15°	57.2	57.2	57.2	52.5	52.5	57.2	66.8	81.1	95.4	104.9
17.5°	52.5	57.2	57.2	52.5	52.5	57.2	66.8	81.1	104.9	119.2
20°	47.7	52.5	57.2	52.5	52.5	52.5	66.8	81.1	109.7	128.8
22.5°	42.9	47.7	52.5	52.5	47.7	52.5	66.8	85.8	119.2	143.1
25°	38.2	42.9	42.9	47.7	47.7	52.5	66.8	85.8	124.0	162.1
27.5°	28.6	33.4	38.2	42.9	42.9	52.5	66.8	90.6	133.5	200.3
30°	23.8	28.6	33.4	38.2	42.9	52.5	66.8	90.6	143.1	252.8
32.5°	23.8	28.6	33.4	38.2	42.9	47.7	66.8	95.4	157.4	314.8
35°	19.1	23.8	28.6	38.2	38.2	47.7	66.8	95.4	171.7	410.1
37.5°	19.1	23.8	28.6	38.2	38.2	47.7	66.8	95.4	209.8	457.8
40°	14.3	19.1	23.8	38.2	38.2	47.7	71.5	100.2	214.6	462.6
42.5°	14.3	19.1	23.8	33.4	38.2	47.7	71.5	100.2	200.3	476.9
45°	14.3	19.1	23.8	38.2	42.9	52.5	71.5	104.9	195.5	543.7
47.5°	14.3	19.1	23.8	38.2	47.7	52.5	71.5	104.9	200.3	777.4
50°	14.3	19.1	23.8	38.2	52.5	52.5	71.5	104.9	219.4	1249.5
52.5°	9.5	14.3	19.1	33.4	42.9	57.2	76.3	100.2	233.7	1669.2
55°	9.5	9.5	14.3	28.6	38.2	62.0	81.1	100.2	271.8	1774.1
57.5°	9.5	9.5	14.3	23.8	33.4	66.8	85.8	100.2	314.8	1721.6
59°	9.5	9.5	9.5	23.8	28.6	66.8	85.8	104.9	319.5	1631.0
60°	9.5	9.5	9.5	19.1	28.6	66.8	90.6	109.7	324.3	1526.1
62.5°	4.8	4.8	4.8	19.1	23.8	66.8	100.2	133.5	333.8	1178.0
65°	9.5	9.5	4.8	14.3	23.8	57.2	114.5	143.1	338.6	915.7
67.5°	9.5	9.5	9.5	19.1	23.8	57.2	119.2	147.8	338.6	724.9
70°	9.5	9.5	9.5	19.1	28.6	57.2	119.2	152.6	333.8	591.4
72.5°	9.5	9.5	9.5	19.1	28.6	52.5	109.7	157.4	319.5	500.8
75°	9.5	9.5	9.5	14.3	23.8	47.7	104.9	171.7	290.9	424.4
77.5°	9.5	9.5	9.5	9.5	19.1	38.2	95.4	190.8	257.5	343.4
80°	14.3	9.5	9.5	9.5	14.3	33.4	90.6	186.0	214.6	224.1
82.5°	14.3	9.5	9.5	4.8	9.5	23.8	71.5	143.1	109.7	100.2
85°	9.5	9.5	9.5	4.8	4.8	14.3	33.4	42.9	33.4	23.8
87.5°	9.5	9.5	9.5	4.8	4.8	4.8	4.8	4.8	4.8	4.8
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: SP1-2407-184-6

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-750-U-5WQ

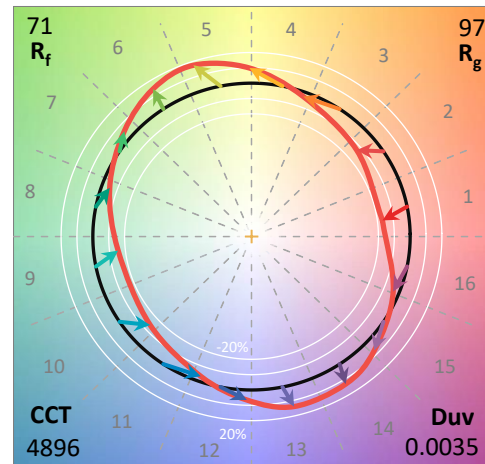
Data in this report applies to families of products including GSS-SB1A-750-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-6
 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-750-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K):	4896	CRI (Ra):	70.2		
CIE u':	0.2101	R1:	68.1	R9:	-35.1
CIE v':	0.4901	R2:	73.9	R10:	39.3
Duv:	0.0035	R3:	79.4	R11:	71.1
CIE x:	0.3489	R4:	72.1	R12:	43.8
CIE y:	0.3618	R5:	69.2	R13:	68.1
CIE z:	0.2893	R6:	65.7	R14:	88.4
Peak Wavelength (nm):	443	R7:	78.1	R15:	59.7
Dominant Wavelength (nm):	570	R8:	55.3		
Purity:	13.25435				
Rf:	70.7				
Rg:	96.8				



Test Conditions

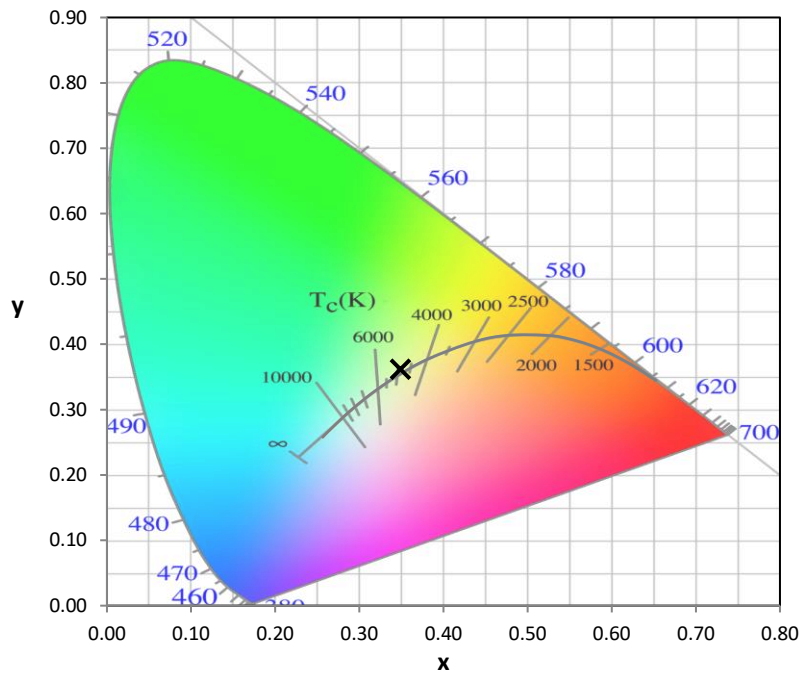
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-6

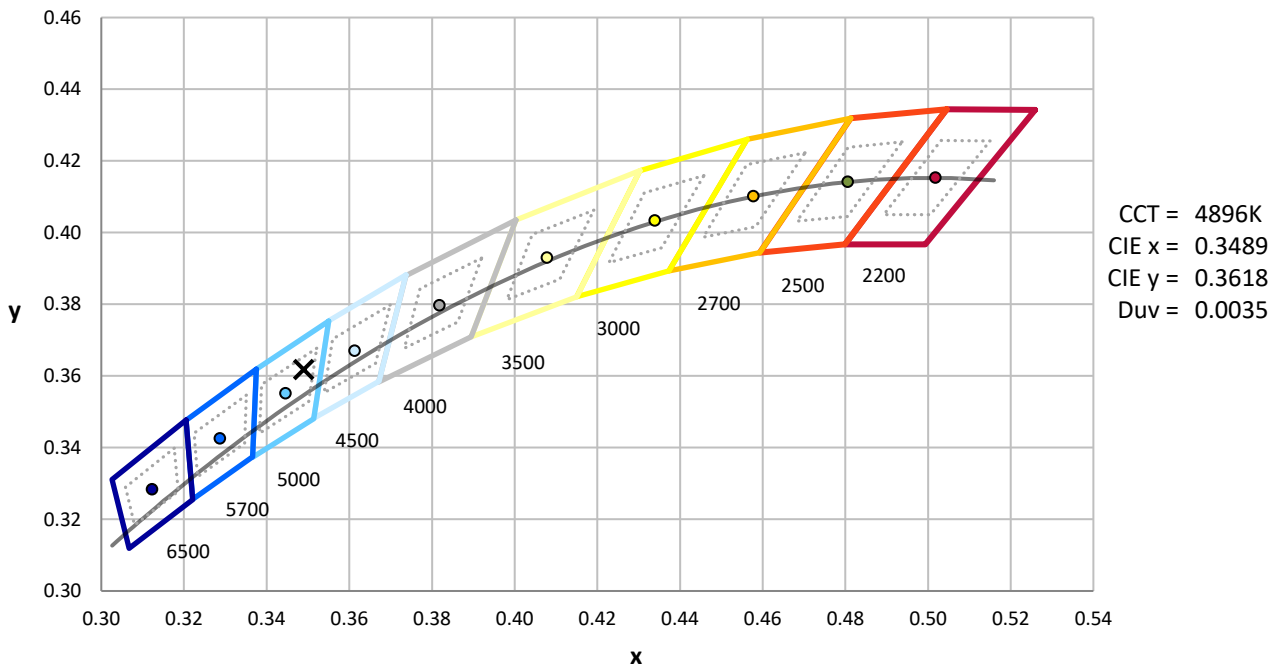
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



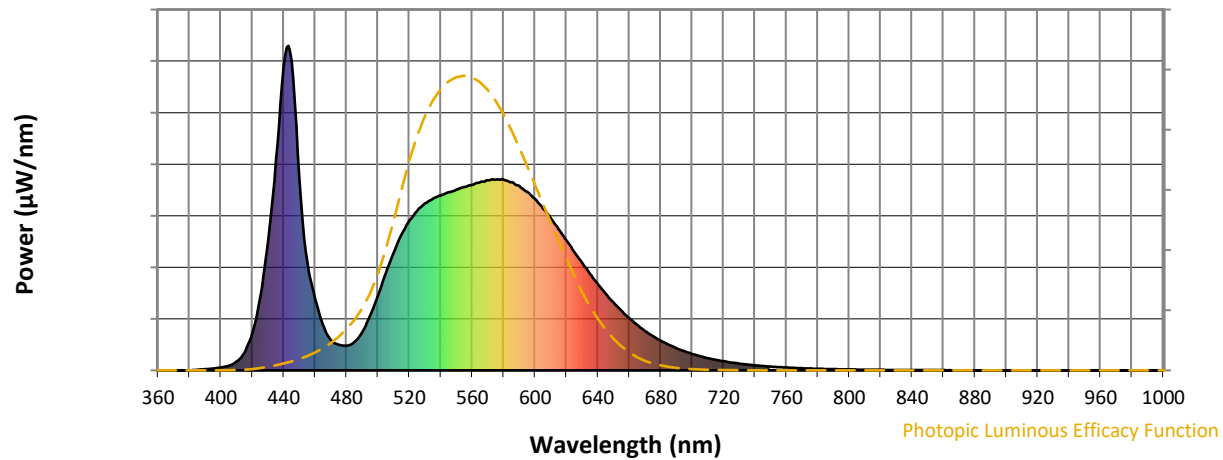
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-6

Photopic Flux vs. Wavelength

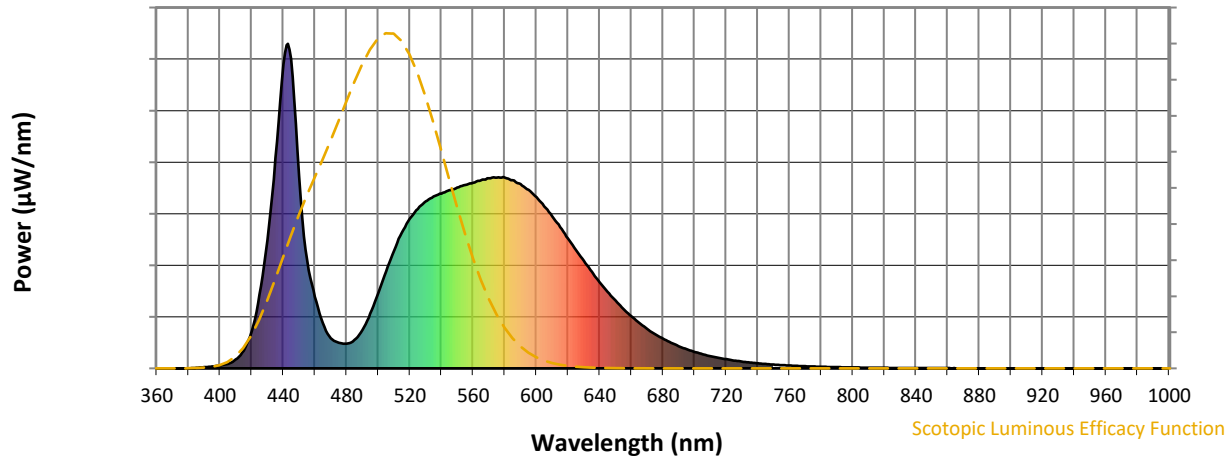


Photopic Lumens: NR

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	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-6

Scotopic Flux vs. Wavelength



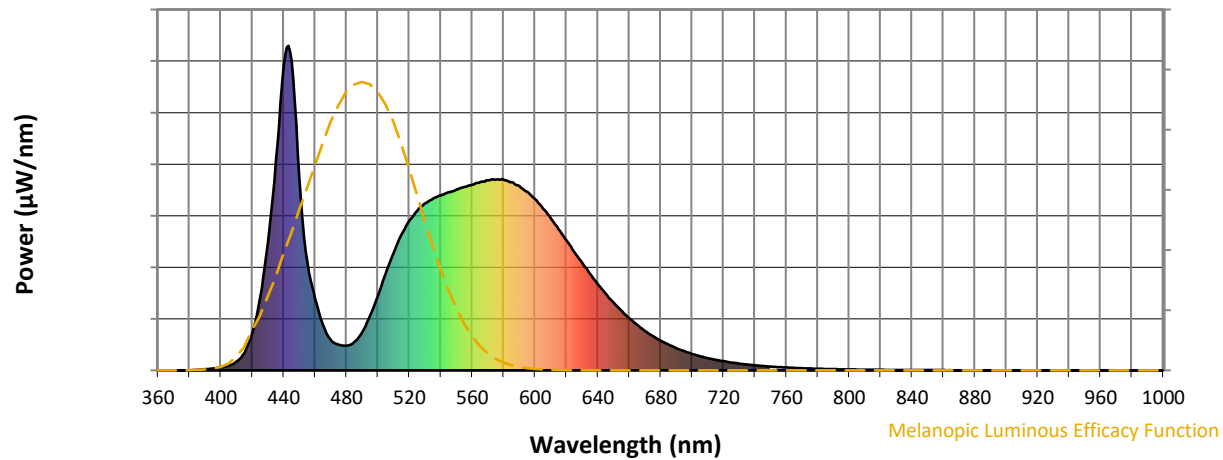
Scotopic Lumens: NR

S/P: 1.7

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	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.37

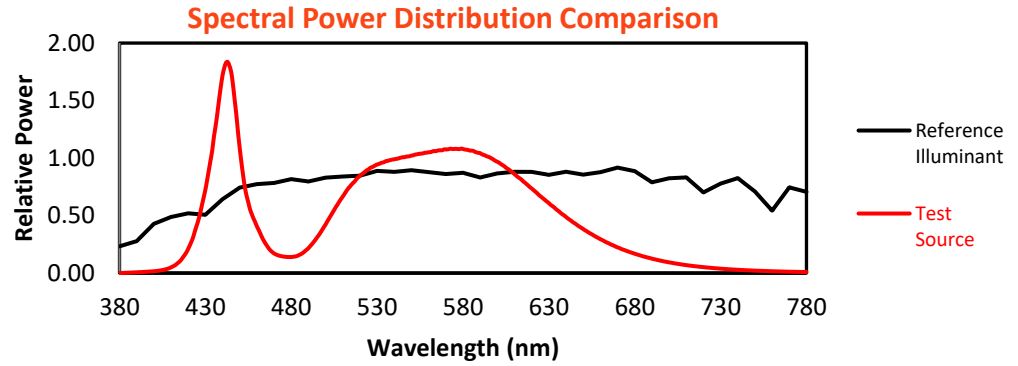
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-6

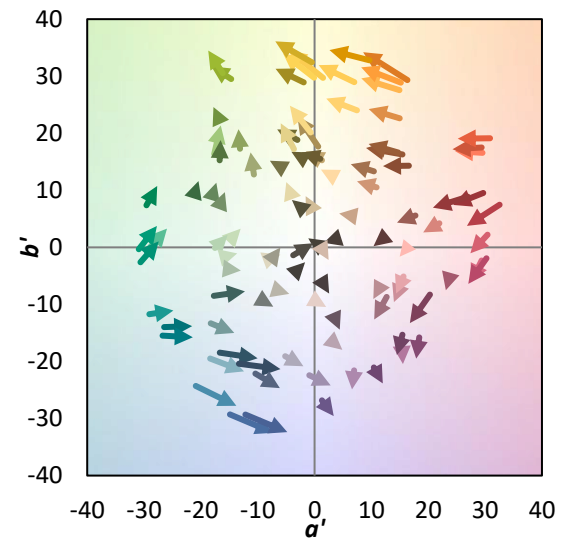
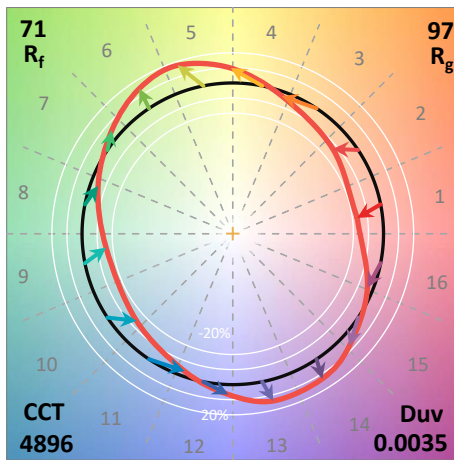
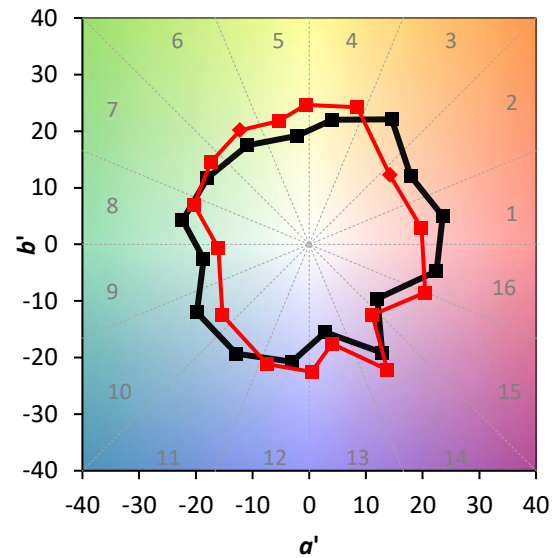
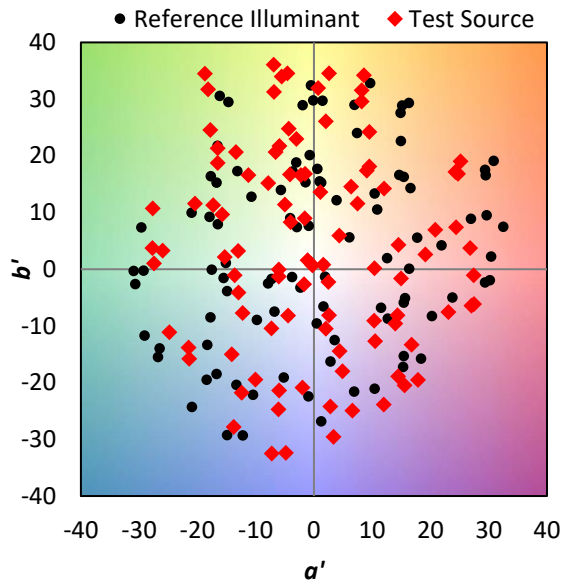
TM-30-18

Summary

$R_f = 70.7$
 $R_g = 96.8$
 $CIE R_a = 70.2$
 $R_g = -35.1$

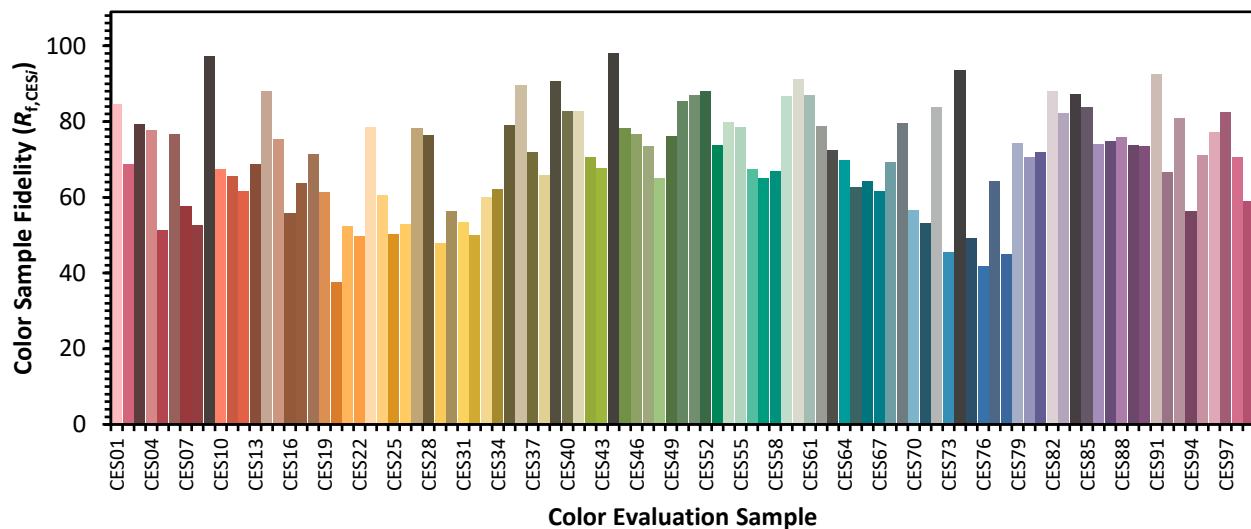


Color Vector Graphics

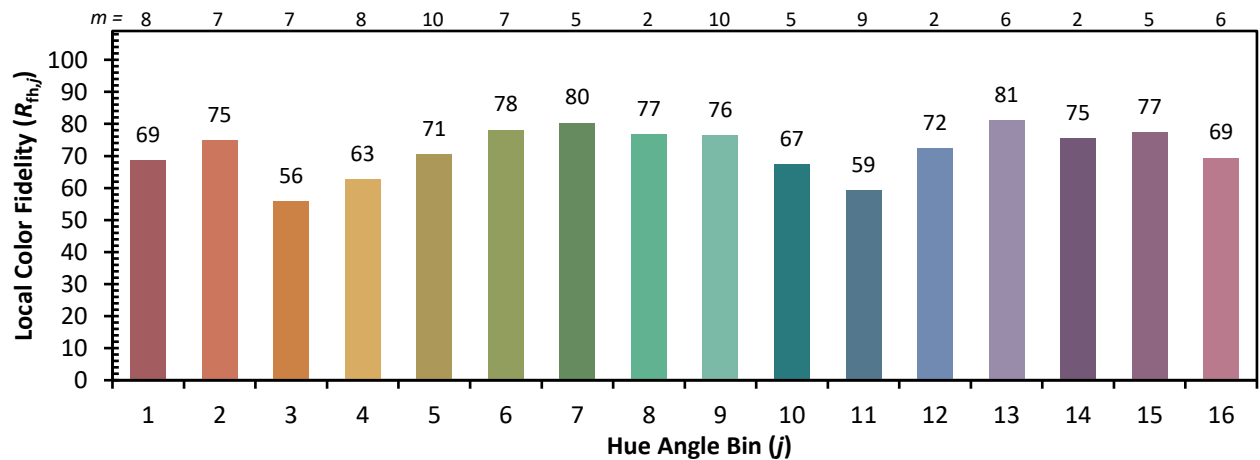
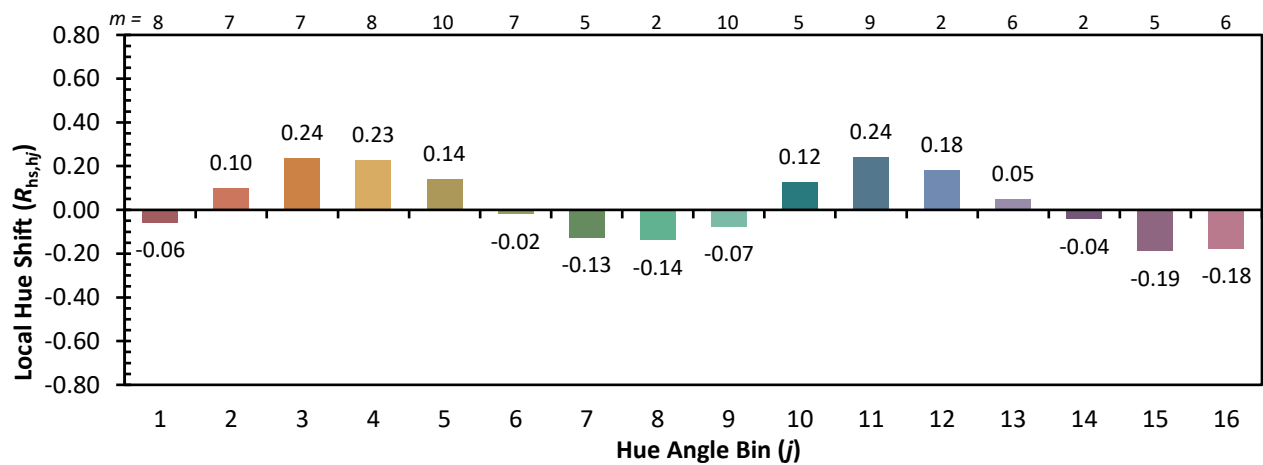
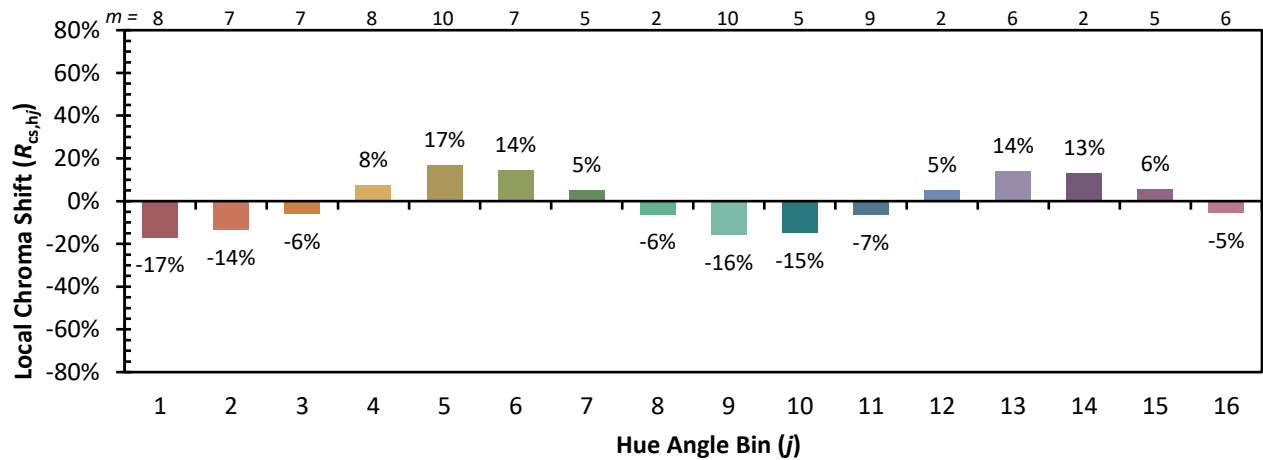


Individual Sample Fidelity Index ($R_{f,i}$)

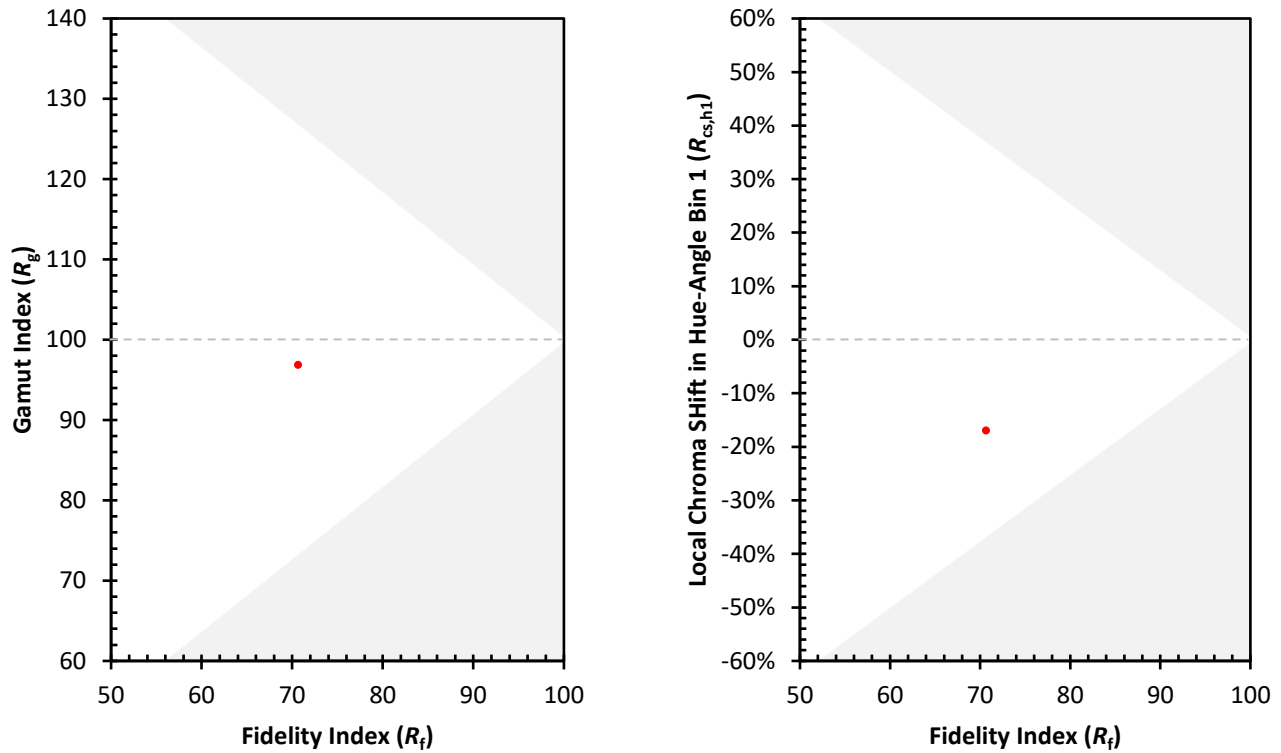
CES01 = 85	CES26 = 53	CES51 = 87	CES76 = 42
CES02 = 59	CES27 = 78	CES52 = 88	CES77 = 64
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 45
CES04 = 69	CES29 = 48	CES54 = 80	CES79 = 74
CES05 = 46	CES30 = 56	CES55 = 79	CES80 = 71
CES06 = 50	CES31 = 54	CES56 = 68	CES81 = 72
CES07 = 39	CES32 = 50	CES57 = 65	CES82 = 88
CES08 = 38	CES33 = 60	CES58 = 67	CES83 = 82
CES09 = 29	CES34 = 62	CES59 = 87	CES84 = 87
CES10 = 72	CES35 = 79	CES60 = 91	CES85 = 84
CES11 = 56	CES36 = 90	CES61 = 87	CES86 = 74
CES12 = 61	CES37 = 72	CES62 = 79	CES87 = 75
CES13 = 41	CES38 = 66	CES63 = 72	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 70	CES89 = 74
CES15 = 70	CES40 = 83	CES65 = 63	CES90 = 73
CES16 = 46	CES41 = 83	CES66 = 64	CES91 = 92
CES17 = 49	CES42 = 70	CES67 = 62	CES92 = 67
CES18 = 55	CES43 = 68	CES68 = 69	CES93 = 81
CES19 = 71	CES44 = 98	CES69 = 80	CES94 = 56
CES20 = 64	CES45 = 78	CES70 = 56	CES95 = 71
CES21 = 85	CES46 = 77	CES71 = 53	CES96 = 77
CES22 = 77	CES47 = 73	CES72 = 84	CES97 = 82
CES23 = 91	CES48 = 65	CES73 = 46	CES98 = 71
CES24 = 90	CES49 = 76	CES74 = 94	CES99 = 59
CES25 = 71	CES50 = 85	CES75 = 49	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)