

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: P1067998

Luminaire Tested: **NAV-SA3B-750-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067998
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA3B-750-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 3xLight Square PACKAGE
70CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11579.7 lumens
Efficiency: N/A
Efficacy: 109.0 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

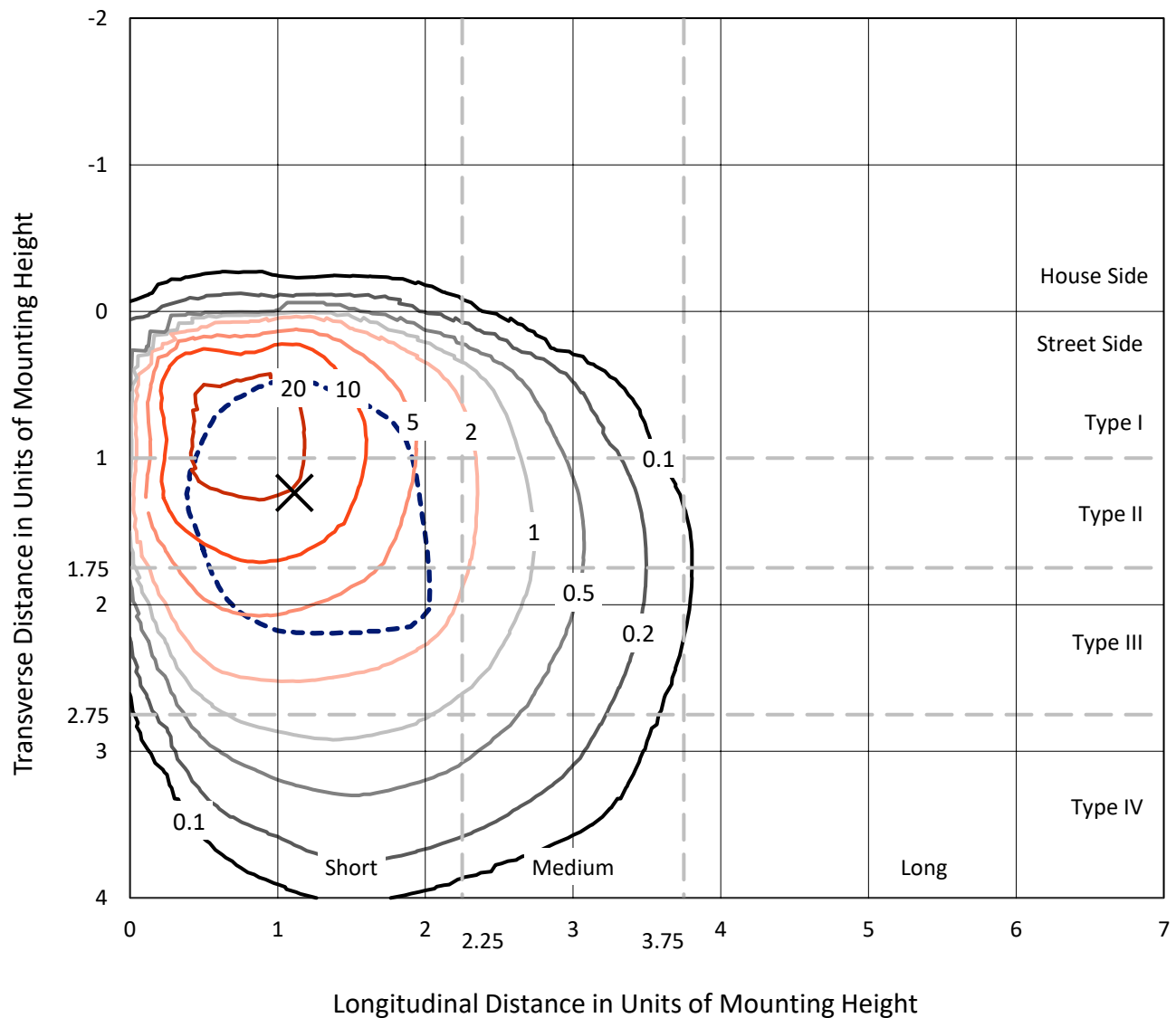


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

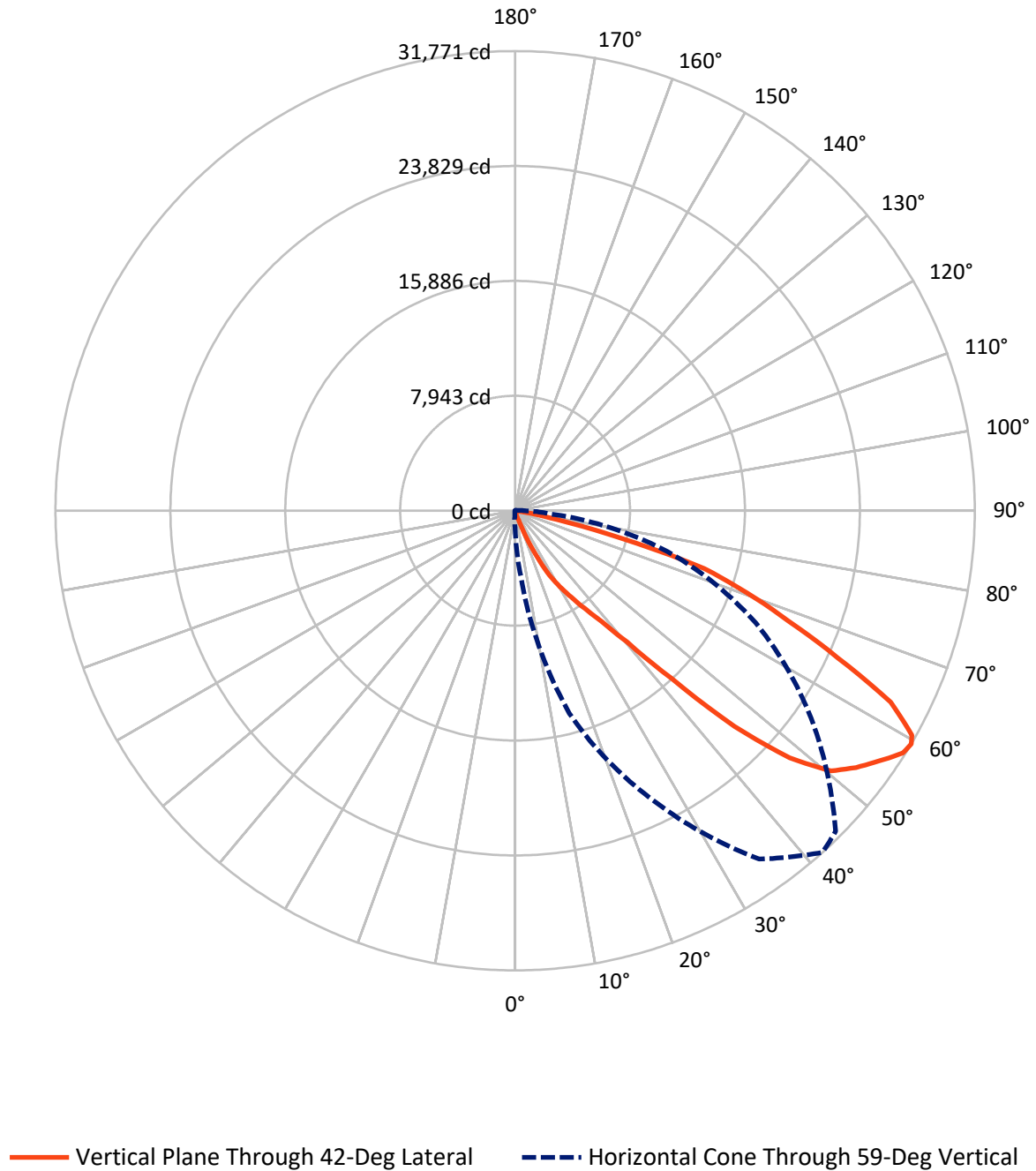


Based on 15 foot mounting height. Maximum calculated value = 34.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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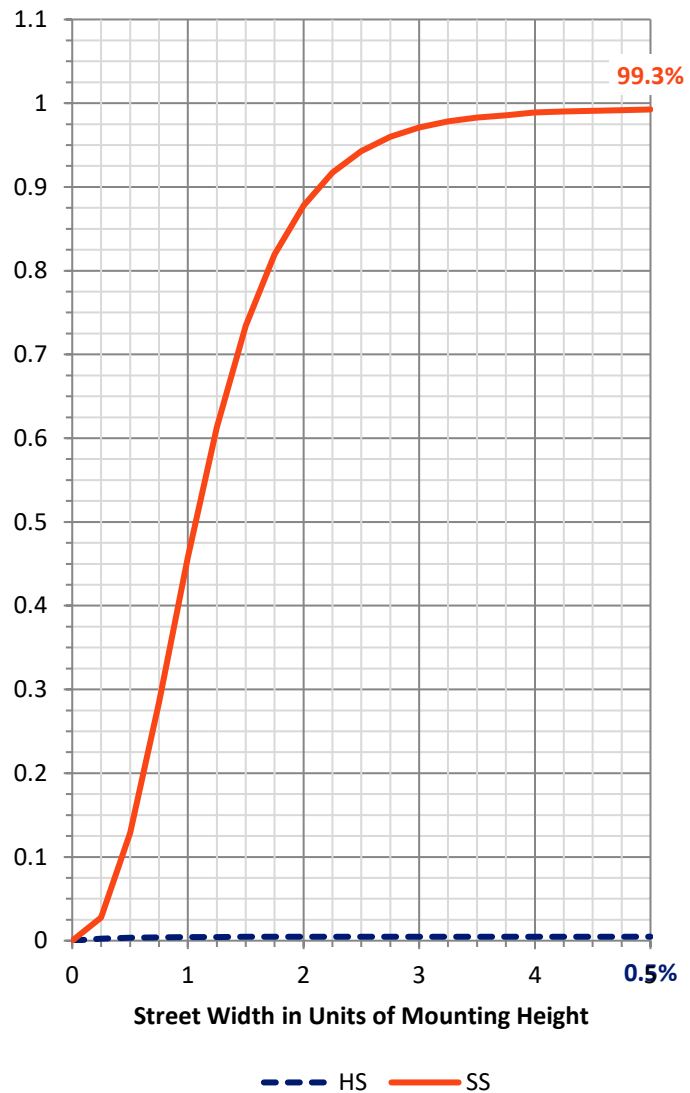
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	55.8	0.0	55.8
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	11523.9	0.0	11523.9
	% Fixture	99.5	0.0	99.5
Total	Lumens	11579.7	0.0	11579.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	0.0
10°-20°	16.9	0.1
20°-30°	216.0	1.9
30°-40°	728.2	6.3
40°-50°	2199.5	19.0
50°-60°	3882.7	33.5
60°-70°	3418.8	29.5
70°-80°	1088.2	9.4
80°-90°	26.0	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°	11579.7	100.0
0°-180°	11579.7	100.0



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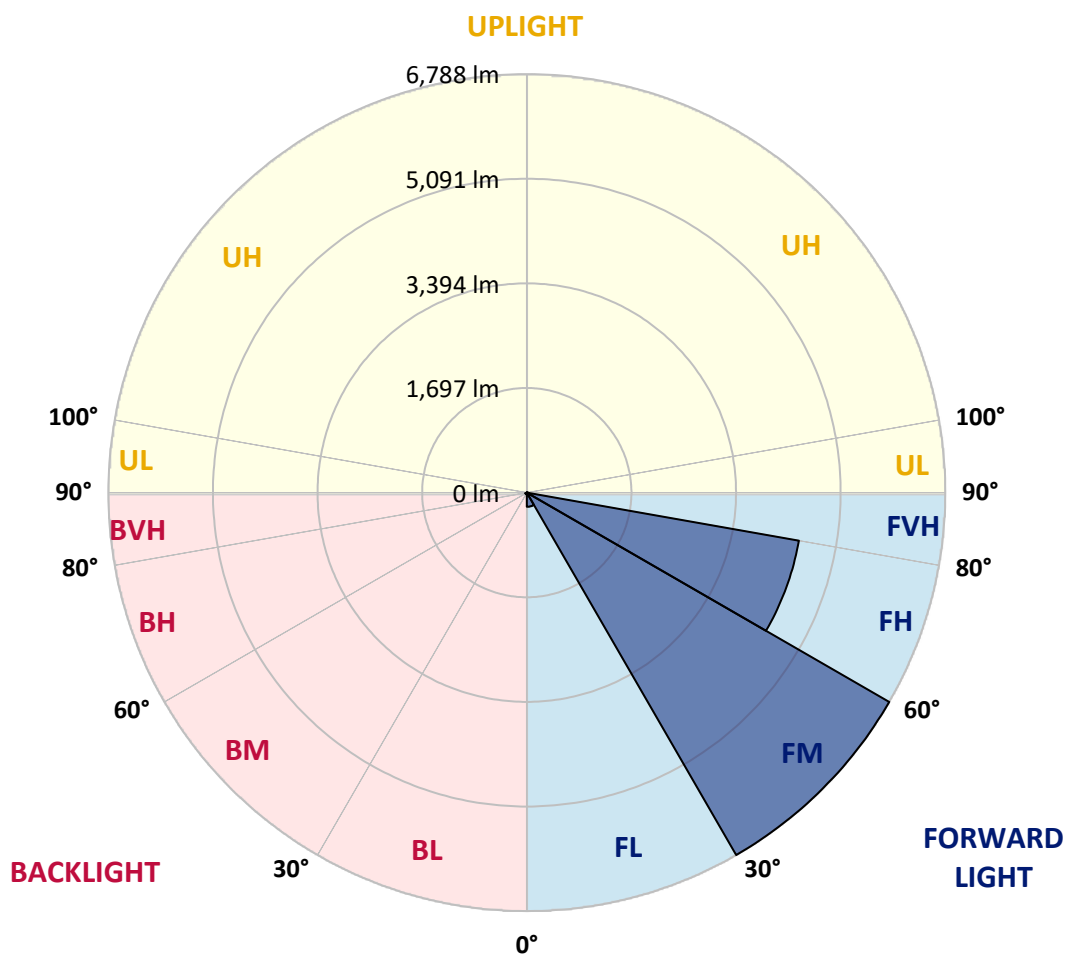
CATALOG NUMBER: NAV-SA3B-750-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	230.0	2.0			
FM	(30°-60°)	6787.6	58.6			
FH	(60°-80°)	4481.4	38.7			G2/5000
FVH	(80°-90°)	24.8	0.2			G1/100
BL	(0°-30°)	6.2	0.1	B0/110		
BM	(30°-60°)	22.8	0.2	B0/220		
BH	(60°-80°)	25.5	0.2	B0/110		G0/110
BVH	(80°-90°)	1.3	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°	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
2.5°	50.8	50.8	47.2	43.6	39.9	36.3	36.3	36.3	32.7	32.7	29.0
5°	58.1	58.1	54.5	50.8	50.8	47.2	47.2	43.6	39.9	39.9	36.3
7.5°	61.7	61.7	61.7	61.7	58.1	58.1	58.1	54.5	50.8	47.2	43.6
10°	65.4	69.0	72.6	72.6	72.6	72.6	72.6	69.0	61.7	58.1	50.8
12.5°	72.6	76.2	83.5	90.8	90.8	94.4	90.8	87.1	79.9	69.0	58.1
15°	79.9	87.1	98.0	112.5	127.1	130.7	130.7	119.8	105.3	83.5	69.0
17.5°	90.8	101.7	130.7	177.9	228.7	268.7	268.7	239.6	167.0	108.9	79.9
20°	98.0	119.8	210.6	428.4	653.5	820.5	787.8	697.1	374.0	170.6	87.1
22.5°	108.9	152.5	446.6	1125.5	1742.7	2047.7	1975.0	1499.4	838.7	305.0	105.3
25°	123.4	221.5	885.9	2109.4	3238.5	3568.9	3521.7	2799.2	1528.5	511.9	134.3
27.5°	152.5	326.8	1419.6	3198.6	4777.9	5061.1	5042.9	4099.0	2443.4	824.1	174.3
30°	192.4	475.6	2105.8	4345.8	5798.1	6084.9	5994.1	5050.2	3296.6	1259.8	225.1
32.5°	239.6	664.4	2726.6	5191.8	6738.4	7116.0	7007.1	5877.9	3982.8	1630.1	334.0
35°	312.2	849.6	3340.2	5939.7	7824.0	8303.2	8121.7	6731.1	4574.6	2047.7	403.0
37.5°	348.5	958.5	3902.9	6752.9	9043.8	9697.3	9559.4	7809.4	5177.2	2581.4	493.8
40°	352.2	1089.2	4487.4	7813.1	10768.4	11933.8	11686.9	9661.0	6299.1	3267.5	635.4
42.5°	363.1	1285.2	5246.2	9621.1	14155.7	15829.4	15549.9	13066.5	8844.2	4643.5	900.4
45°	413.9	1655.6	6792.9	13001.2	18806.5	21260.8	20937.7	17811.7	12398.5	7232.2	1535.7
47.5°	591.8	2490.6	9504.9	16650.0	23562.6	25519.5	25439.7	21551.3	15618.9	9886.1	2603.1
50°	951.2	3823.0	12590.9	19717.8	26590.6	28271.5	28071.8	23112.4	17455.9	11697.8	3336.5
52.5°	1270.7	5097.4	14529.7	20846.9	27494.6	29498.7	29255.4	23682.4	17938.8	12231.5	3539.8
55°	1350.6	5558.5	15106.9	21195.5	28093.6	30537.0	30184.9	24063.7	18000.5	11850.3	3202.2
57.5°	1310.6	5122.8	14733.0	21536.8	28928.7	31604.4	31136.1	24807.9	18207.5	11204.0	2664.9
59°	1241.7	4585.5	14500.6	21809.0	29389.7	31771.4	31332.1	24971.3	18345.4	10910.0	2338.1
60°	1161.8	4222.4	14319.1	21986.9	29360.7	31510.0	31056.2	24895.1	18399.9	10655.8	2182.0
62.5°	896.8	3369.2	14057.7	21859.9	27527.2	29124.7	28866.9	23028.9	17601.2	9842.6	1720.9
65°	697.1	2577.7	13099.2	19496.3	23424.7	24499.3	24419.5	19500.0	14812.9	8484.7	1241.7
67.5°	551.9	1880.7	11077.0	15789.5	18846.5	20375.0	20316.9	15829.4	11244.0	6484.3	893.1
70°	450.2	1339.7	7595.2	11904.8	15074.3	16998.5	16915.0	12739.8	8332.2	4113.5	649.9
72.5°	381.2	856.8	4607.2	8974.9	12580.0	13680.1	13436.9	10278.2	6059.5	2240.1	515.5
75°	323.1	526.4	2283.7	5594.8	7493.6	7486.3	7243.1	5442.3	3253.0	1096.4	410.3
77.5°	261.4	370.3	896.8	1535.7	2363.5	2926.3	2879.1	1927.9	973.0	319.5	254.1
80°	170.6	174.3	239.6	421.2	649.9	718.9	816.9	588.2	283.2	152.5	105.3
82.5°	76.2	83.5	108.9	138.0	138.0	127.1	112.5	83.5	61.7	50.8	25.4
85°	18.2	25.4	18.2	21.8	18.2	14.5	14.5	7.3	0.0	0.0	0.0
87.5°	3.6	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°	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
2.5°	29.0	29.0	29.0	25.4	25.4	25.4	21.8	21.8	21.8	18.2	18.2
5°	36.3	32.7	29.0	29.0	25.4	25.4	21.8	18.2	18.2	18.2	14.5
7.5°	39.9	36.3	32.7	29.0	25.4	21.8	21.8	18.2	14.5	14.5	14.5
10°	47.2	43.6	36.3	29.0	25.4	21.8	18.2	18.2	14.5	10.9	10.9
12.5°	54.5	47.2	39.9	32.7	25.4	21.8	18.2	18.2	14.5	10.9	7.3
15°	61.7	54.5	43.6	32.7	25.4	21.8	18.2	18.2	10.9	7.3	3.6
17.5°	69.0	58.1	43.6	36.3	25.4	21.8	18.2	14.5	7.3	3.6	0.0
20°	72.6	61.7	47.2	36.3	25.4	21.8	18.2	10.9	3.6	0.0	0.0
22.5°	79.9	69.0	50.8	36.3	25.4	18.2	10.9	3.6	0.0	0.0	0.0
25°	94.4	72.6	50.8	36.3	25.4	18.2	7.3	0.0	0.0	0.0	0.0
27.5°	105.3	79.9	50.8	36.3	25.4	14.5	3.6	0.0	0.0	0.0	0.0
30°	123.4	87.1	54.5	36.3	25.4	10.9	3.6	0.0	0.0	0.0	0.0
32.5°	152.5	94.4	54.5	36.3	21.8	10.9	0.0	0.0	0.0	0.0	0.0
35°	185.2	108.9	54.5	36.3	21.8	10.9	0.0	0.0	0.0	0.0	0.0
37.5°	188.8	116.2	54.5	36.3	21.8	7.3	0.0	0.0	0.0	0.0	0.0
40°	196.1	108.9	58.1	36.3	21.8	7.3	0.0	0.0	0.0	0.0	0.0
42.5°	225.1	101.7	61.7	36.3	21.8	7.3	0.0	0.0	0.0	0.0	0.0
45°	334.0	105.3	61.7	39.9	21.8	10.9	0.0	0.0	0.0	0.0	0.0
47.5°	580.9	108.9	58.1	39.9	21.8	10.9	0.0	0.0	0.0	0.0	0.0
50°	744.3	127.1	58.1	43.6	25.4	7.3	0.0	0.0	0.0	0.0	0.0
52.5°	791.5	148.9	58.1	47.2	32.7	3.6	0.0	0.0	0.0	0.0	0.0
55°	769.7	174.3	61.7	50.8	39.9	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	711.6	188.8	65.4	54.5	43.6	0.0	0.0	0.0	0.0	0.0	0.0
59°	649.9	199.7	76.2	58.1	43.6	0.0	0.0	0.0	0.0	0.0	0.0
60°	599.0	210.6	79.9	61.7	43.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	482.9	225.1	87.1	72.6	36.3	0.0	0.0	0.0	0.0	0.0	0.0
65°	421.2	236.0	90.8	79.9	32.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	384.8	243.3	98.0	83.5	29.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	355.8	239.6	105.3	79.9	25.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	323.1	228.7	127.1	72.6	21.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	290.4	206.9	138.0	65.4	14.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	210.6	174.3	127.1	58.1	7.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	90.8	94.4	90.8	43.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	18.2	21.8	18.2	10.9	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°	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
2.5°	18.2	18.2	18.2	18.2	21.8	21.8	29.0	36.3	43.6	47.2	47.2
5°	14.5	14.5	14.5	14.5	14.5	18.2	21.8	29.0	39.9	43.6	43.6
7.5°	10.9	10.9	10.9	10.9	10.9	10.9	18.2	25.4	36.3	39.9	43.6
10°	10.9	7.3	7.3	3.6	3.6	7.3	10.9	21.8	32.7	36.3	39.9
12.5°	7.3	3.6	3.6	0.0	0.0	3.6	7.3	18.2	29.0	32.7	36.3
15°	3.6	0.0	0.0	0.0	0.0	0.0	3.6	14.5	25.4	29.0	36.3
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9	21.8	29.0	32.7
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	18.2	25.4	29.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	14.5	21.8	25.4
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9	14.5	18.2
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	10.9	14.5
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	10.9	14.5
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	7.3	10.9
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	7.3	10.9
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	7.3	7.3
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	7.3
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	7.3
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	7.3
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	7.3
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	7.3
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.6
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.6
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	7.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	7.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.6
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°	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
2.5°	50.8	50.8	47.2	43.6	43.6	43.6	47.2	50.8	50.8	50.8
5°	47.2	47.2	43.6	43.6	43.6	43.6	47.2	54.5	58.1	58.1
7.5°	47.2	47.2	43.6	43.6	43.6	43.6	47.2	54.5	58.1	61.7
10°	43.6	43.6	43.6	43.6	39.9	43.6	47.2	54.5	65.4	65.4
12.5°	43.6	43.6	43.6	43.6	39.9	43.6	50.8	58.1	69.0	72.6
15°	43.6	43.6	43.6	39.9	39.9	43.6	50.8	61.7	72.6	79.9
17.5°	39.9	43.6	43.6	39.9	39.9	43.6	50.8	61.7	79.9	90.8
20°	36.3	39.9	43.6	39.9	39.9	39.9	50.8	61.7	83.5	98.0
22.5°	32.7	36.3	39.9	39.9	36.3	39.9	50.8	65.4	90.8	108.9
25°	29.0	32.7	32.7	36.3	36.3	39.9	50.8	65.4	94.4	123.4
27.5°	21.8	25.4	29.0	32.7	32.7	39.9	50.8	69.0	101.7	152.5
30°	18.2	21.8	25.4	29.0	32.7	39.9	50.8	69.0	108.9	192.4
32.5°	18.2	21.8	25.4	29.0	32.7	36.3	50.8	72.6	119.8	239.6
35°	14.5	18.2	21.8	29.0	29.0	36.3	50.8	72.6	130.7	312.2
37.5°	14.5	18.2	21.8	29.0	29.0	36.3	50.8	72.6	159.7	348.5
40°	10.9	14.5	18.2	29.0	29.0	36.3	54.5	76.2	163.4	352.2
42.5°	10.9	14.5	18.2	25.4	29.0	36.3	54.5	76.2	152.5	363.1
45°	10.9	14.5	18.2	29.0	32.7	39.9	54.5	79.9	148.9	413.9
47.5°	10.9	14.5	18.2	29.0	36.3	39.9	54.5	79.9	152.5	591.8
50°	10.9	14.5	18.2	29.0	39.9	39.9	54.5	79.9	167.0	951.2
52.5°	7.3	10.9	14.5	25.4	32.7	43.6	58.1	76.2	177.9	1270.7
55°	7.3	7.3	10.9	21.8	29.0	47.2	61.7	76.2	206.9	1350.6
57.5°	7.3	7.3	10.9	18.2	25.4	50.8	65.4	76.2	239.6	1310.6
59°	7.3	7.3	7.3	18.2	21.8	50.8	65.4	79.9	243.3	1241.7
60°	7.3	7.3	7.3	14.5	21.8	50.8	69.0	83.5	246.9	1161.8
62.5°	3.6	3.6	3.6	14.5	18.2	50.8	76.2	101.7	254.1	896.8
65°	7.3	7.3	3.6	10.9	18.2	43.6	87.1	108.9	257.8	697.1
67.5°	7.3	7.3	7.3	14.5	18.2	43.6	90.8	112.5	257.8	551.9
70°	7.3	7.3	7.3	14.5	21.8	43.6	90.8	116.2	254.1	450.2
72.5°	7.3	7.3	7.3	14.5	21.8	39.9	83.5	119.8	243.3	381.2
75°	7.3	7.3	7.3	10.9	18.2	36.3	79.9	130.7	221.5	323.1
77.5°	7.3	7.3	7.3	7.3	14.5	29.0	72.6	145.2	196.1	261.4
80°	10.9	7.3	7.3	7.3	10.9	25.4	69.0	141.6	163.4	170.6
82.5°	10.9	7.3	7.3	3.6	7.3	18.2	54.5	108.9	83.5	76.2
85°	7.3	7.3	7.3	3.6	3.6	10.9	25.4	32.7	25.4	18.2
87.5°	7.3	7.3	7.3	3.6	3.6	3.6	3.6	3.6	3.6	3.6
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

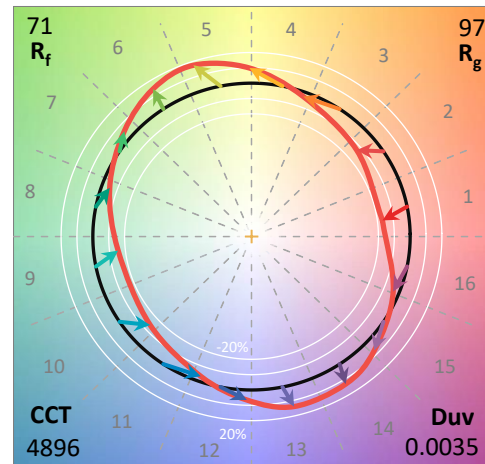
Data in this report applies to families of products including GSS-SB1A-750-U-5WQ

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

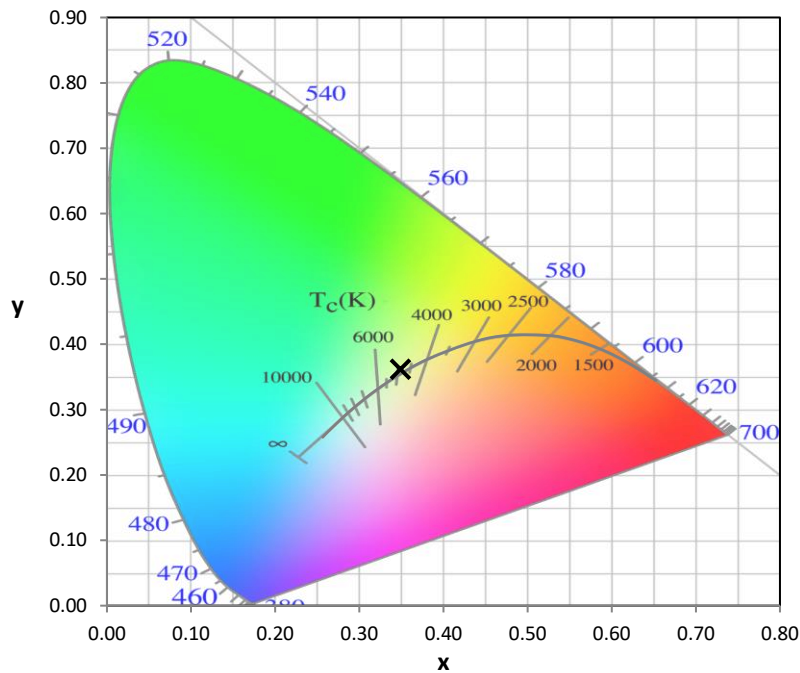
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-6

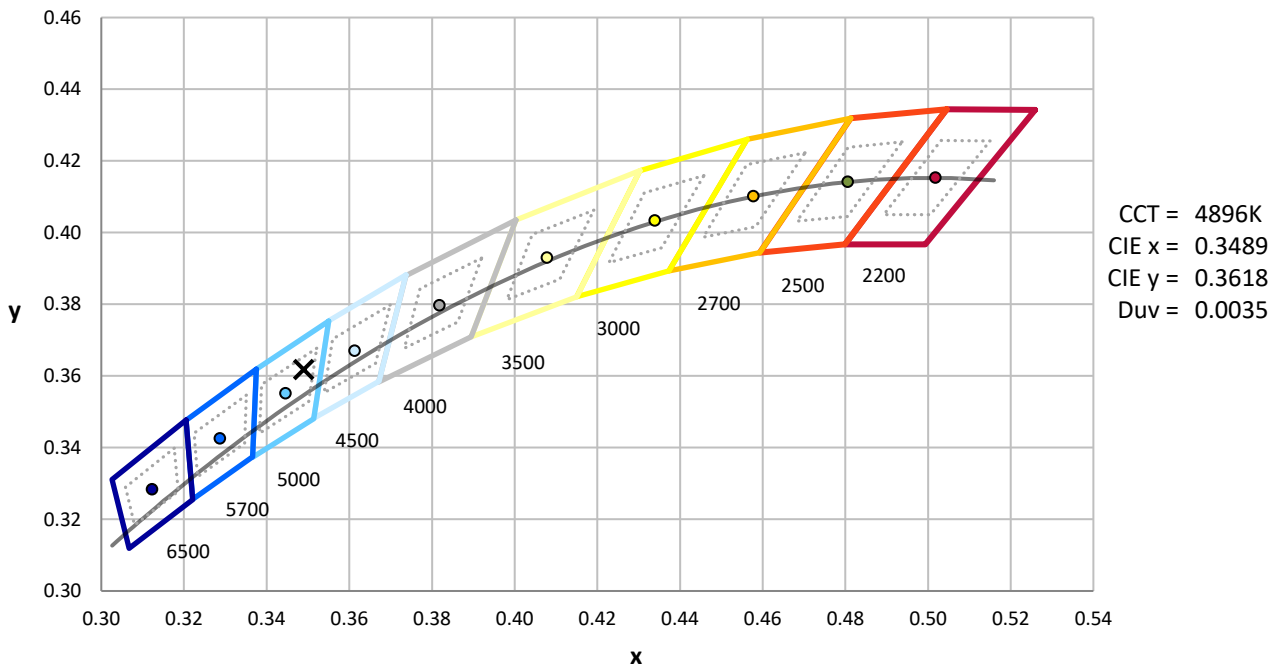
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



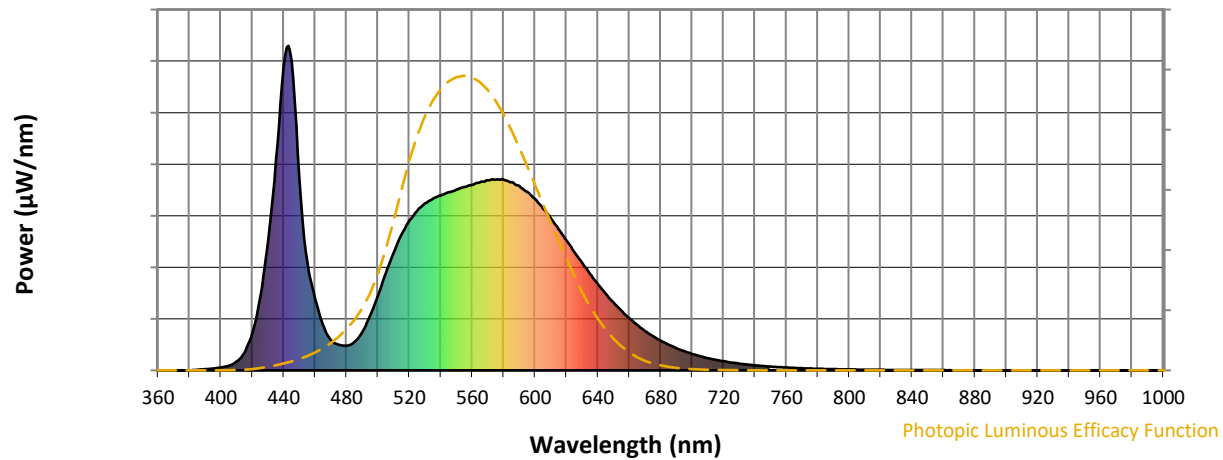
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-6

Photopic Flux vs. Wavelength

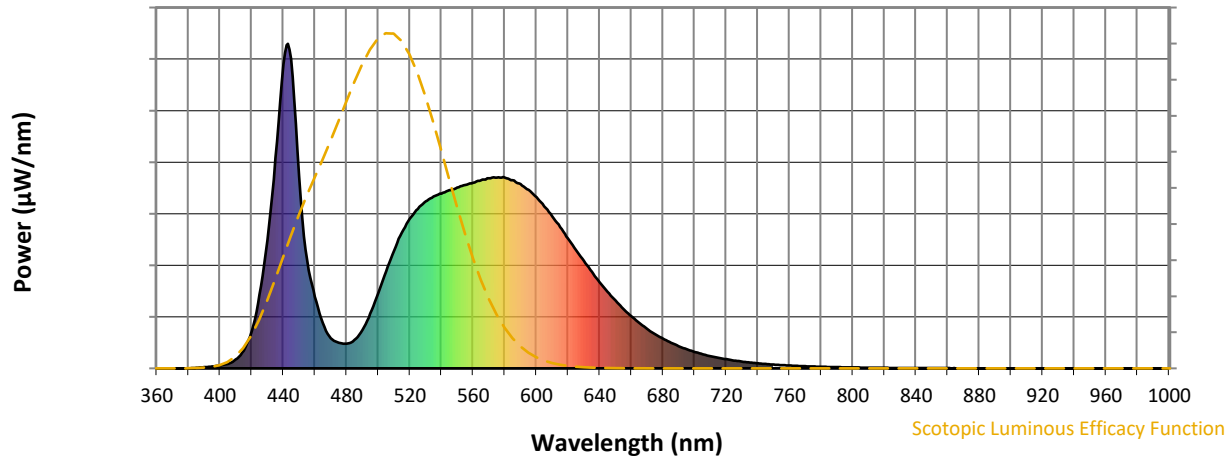


Photopic Lumens: NR

λ (nm)	Power 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	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



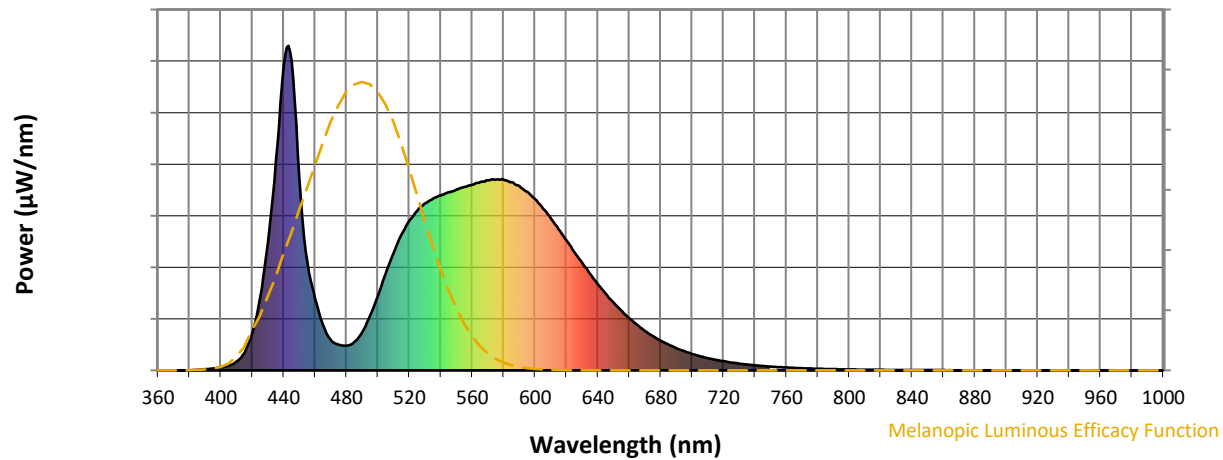
Scotopic Lumens: NR

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

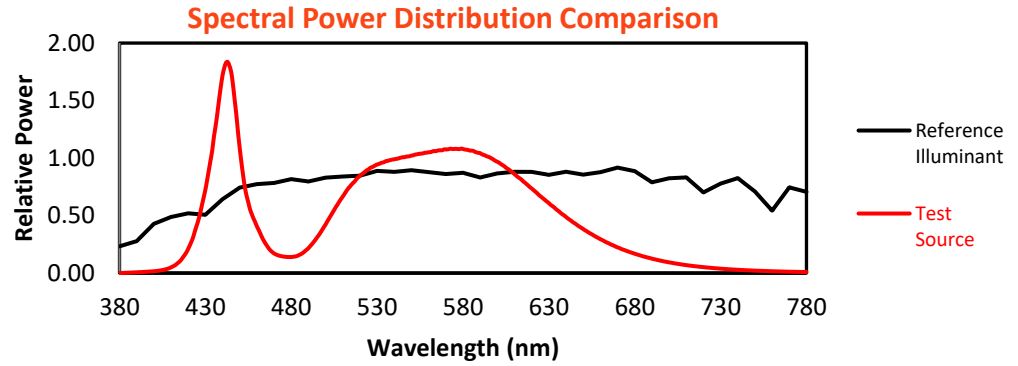
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	118	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			

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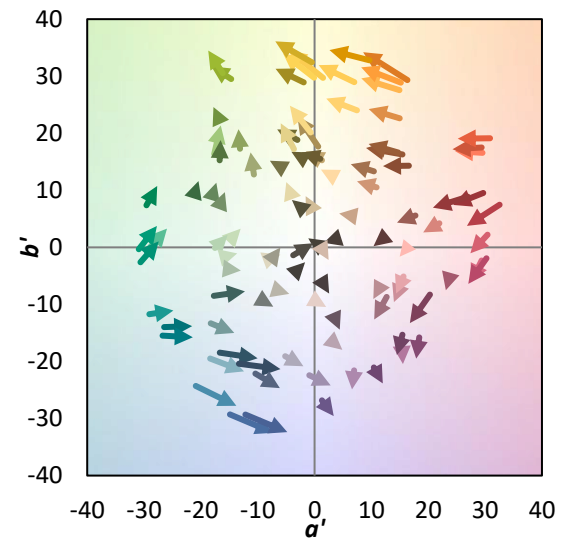
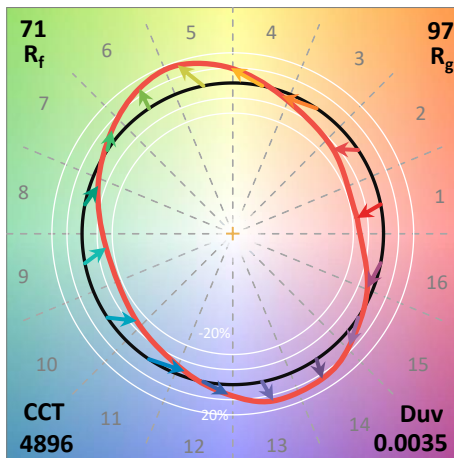
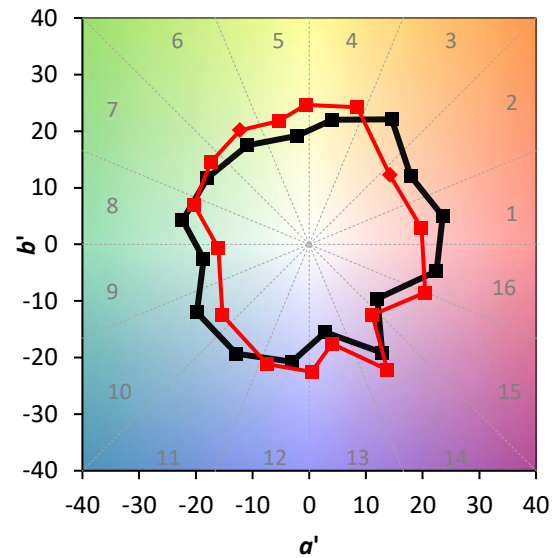
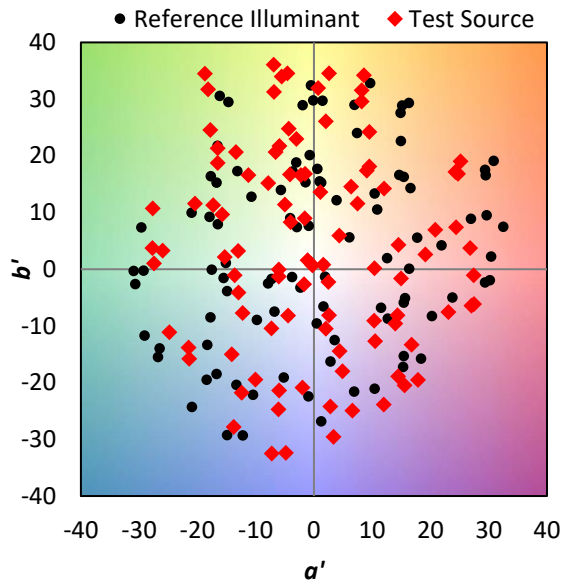
TM-30-18

Summary

$R_f = 70.7$
 $R_g = 96.8$
 $\text{CIE } R_a = 70.2$
 $R_g = -35.1$

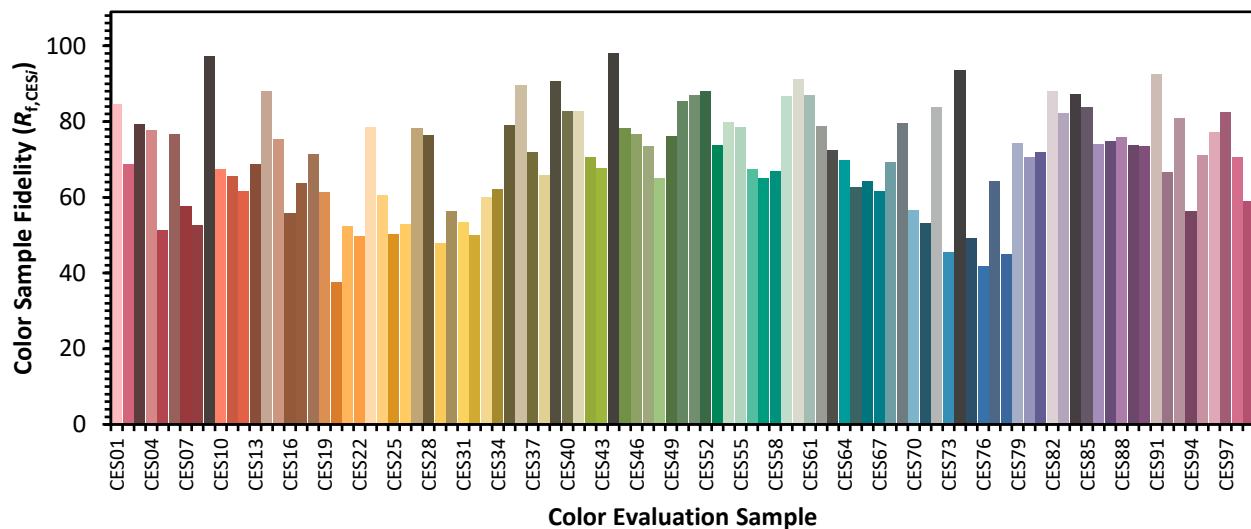


Color Vector Graphics

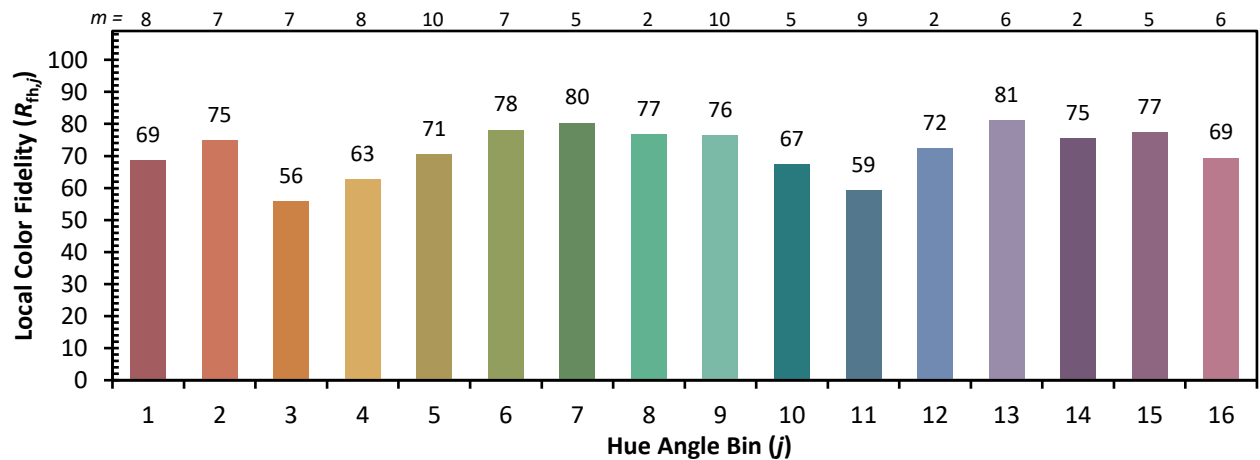
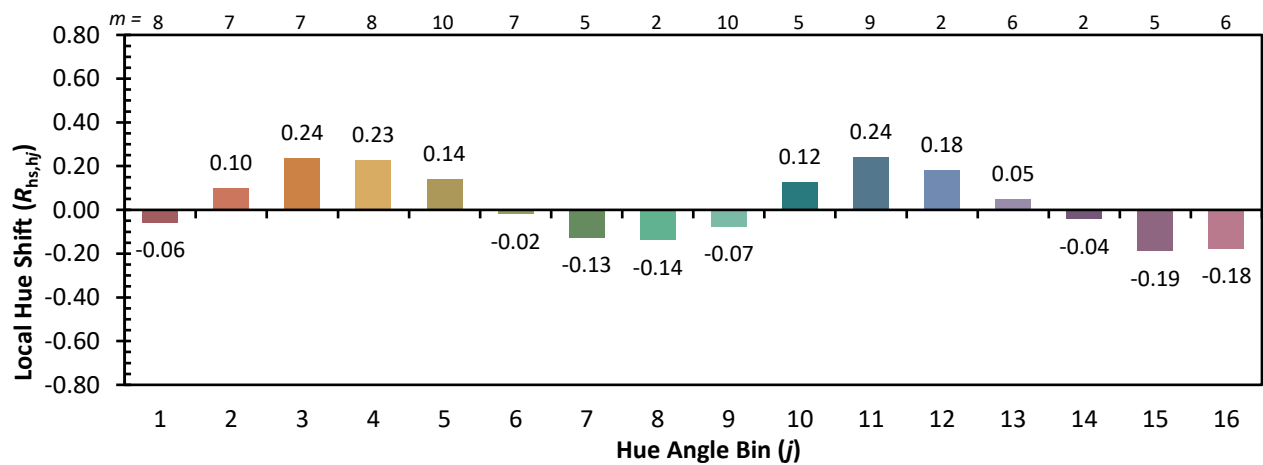
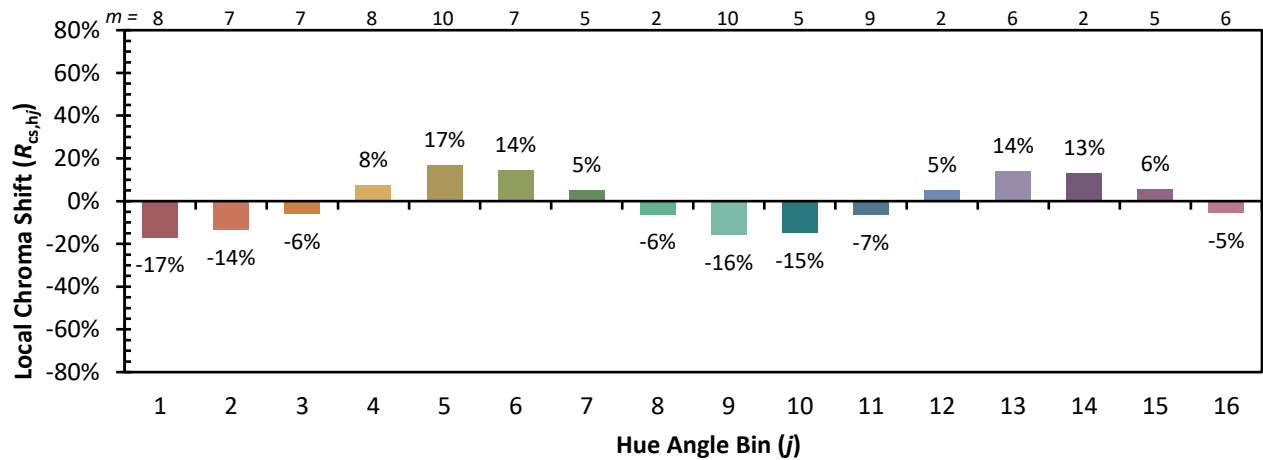


Individual Sample Fidelity Index ($R_{f,i}$)

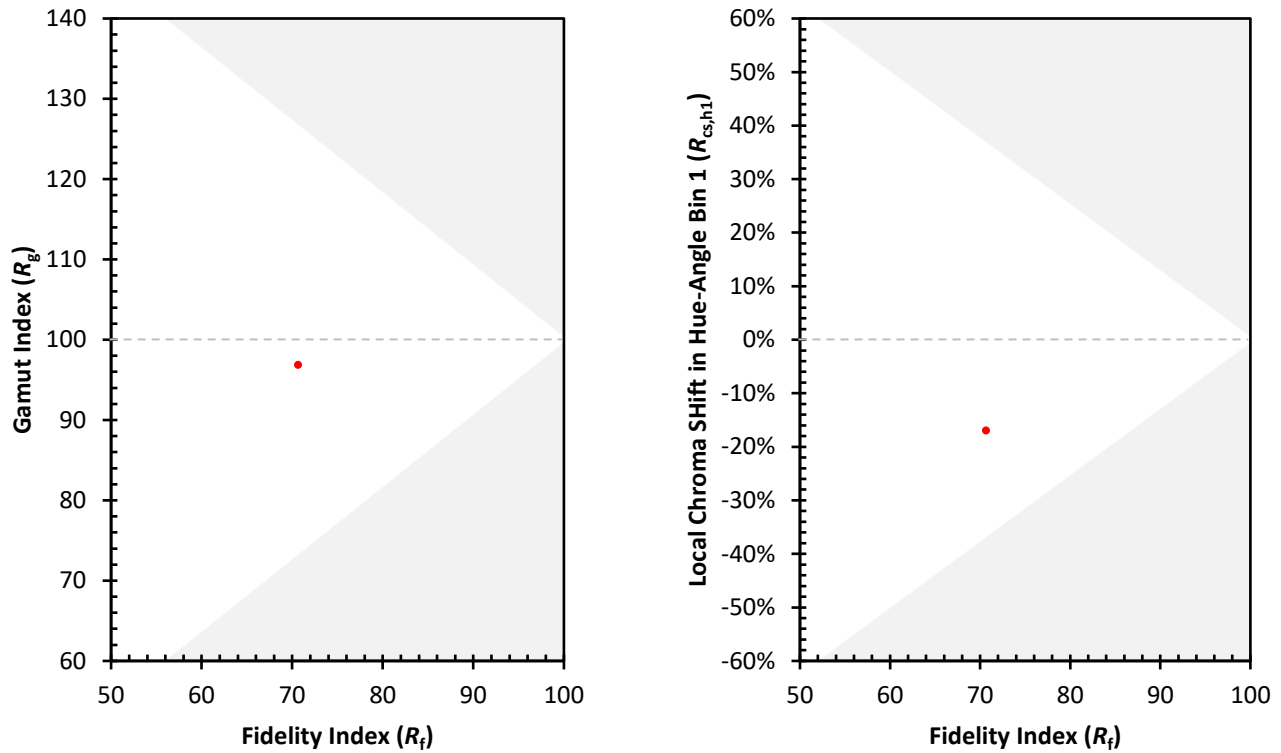
CES01 = 85	CES26 = 53	CES51 = 87	CES76 = 42
CES02 = 59	CES27 = 78	CES52 = 88	CES77 = 64
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 45
CES04 = 69	CES29 = 48	CES54 = 80	CES79 = 74
CES05 = 46	CES30 = 56	CES55 = 79	CES80 = 71
CES06 = 50	CES31 = 54	CES56 = 68	CES81 = 72
CES07 = 39	CES32 = 50	CES57 = 65	CES82 = 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)