

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: P1067913

Luminaire Tested: **NAV-SA6A-722-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067913
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA6A-722-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 6xLight Square PACKAGE
70CRI 2200K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13566.6 lumens
Efficiency: N/A
Efficacy: 84.0 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): 161.6
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



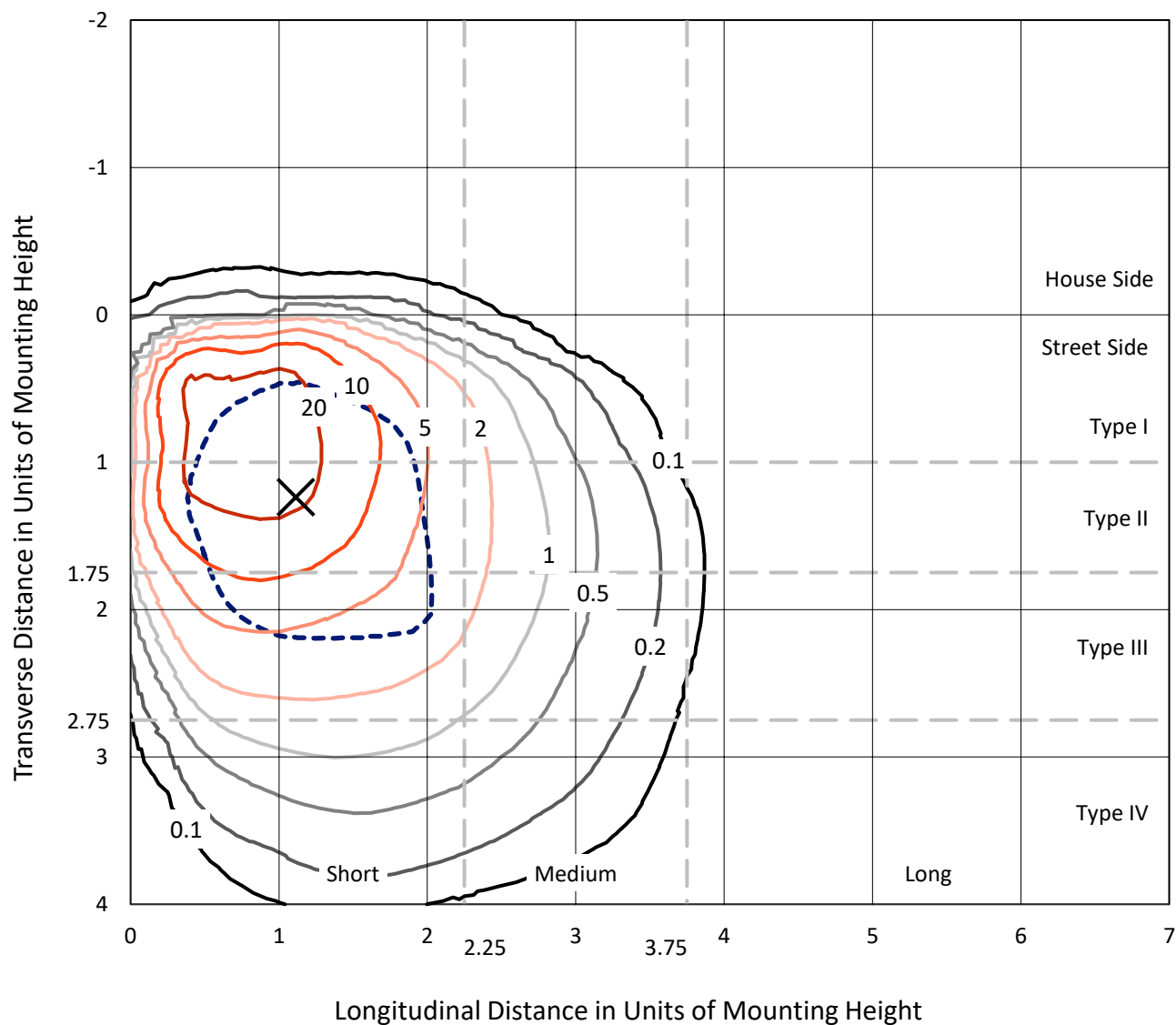
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

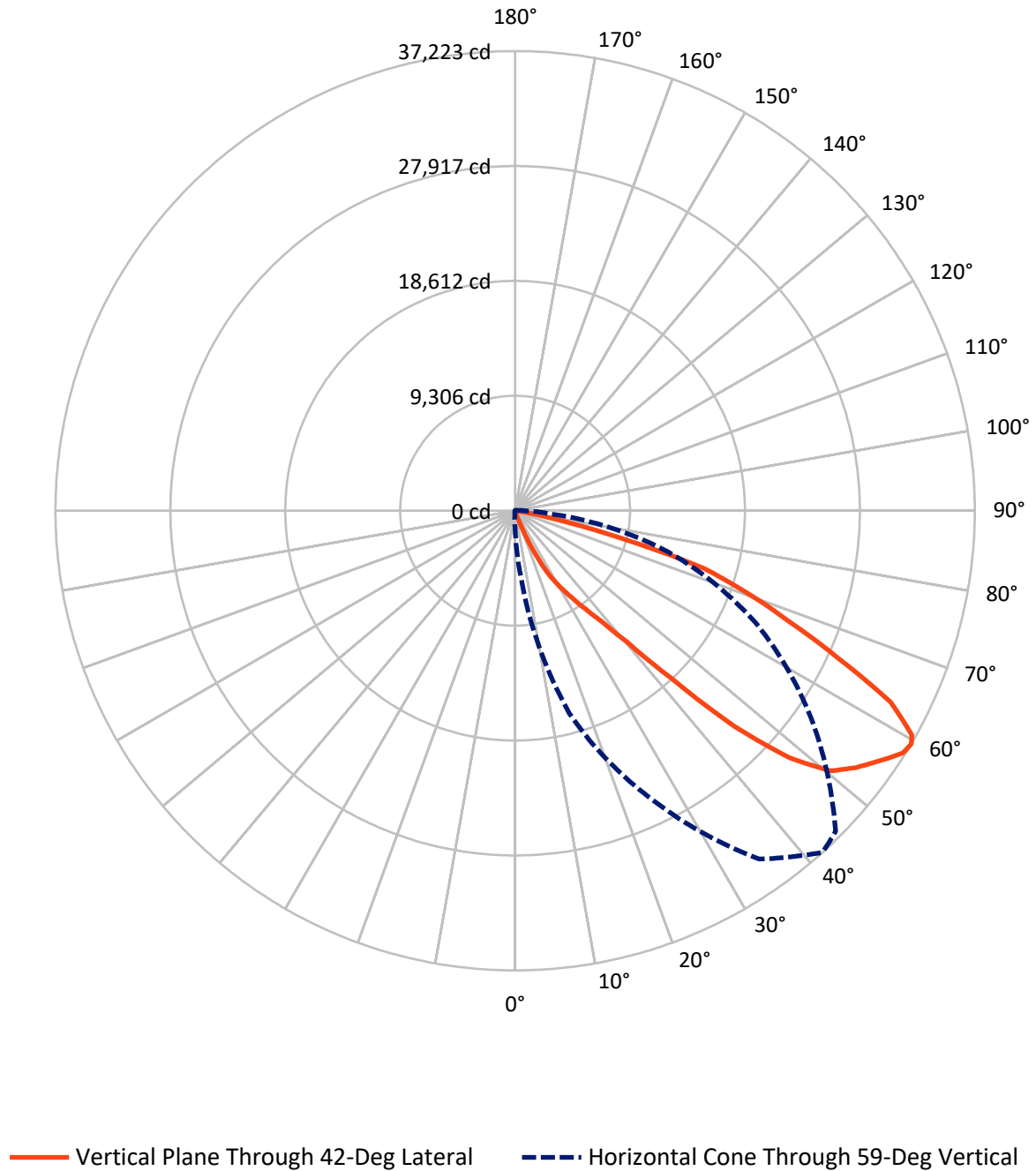


Based on 15 foot mounting height. Maximum calculated value = 40.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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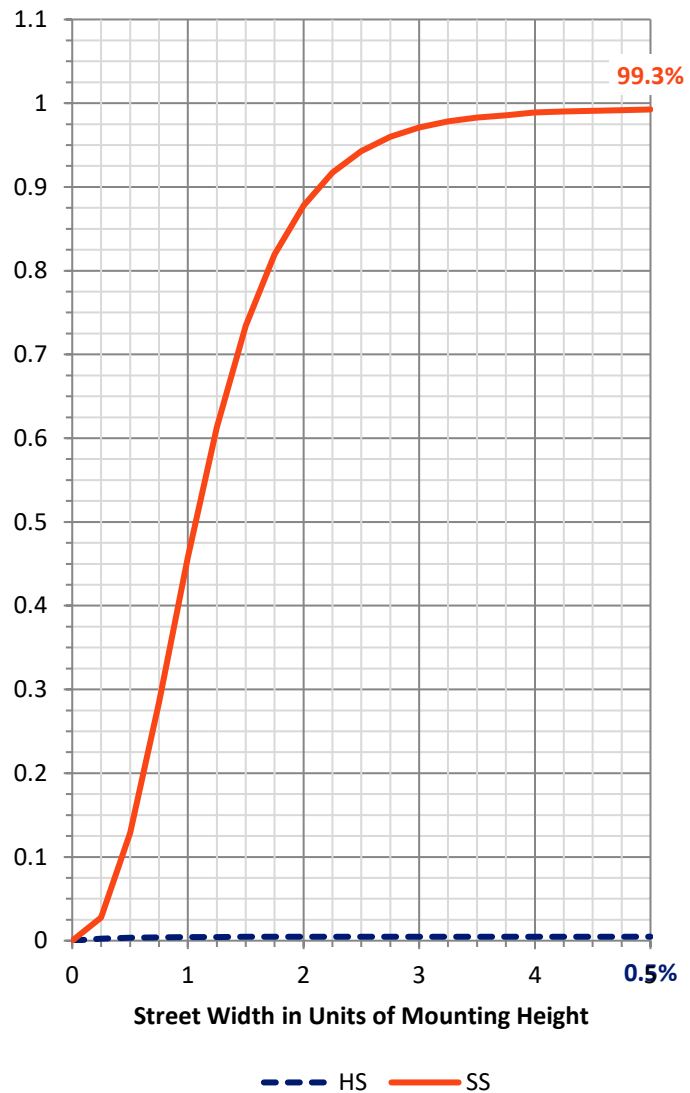
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	65.4	0.0	65.4
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	13501.2	0.0	13501.2
	% Fixture	99.5	0.0	99.5
Total	Lumens	13566.6	0.0	13566.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.0	0.0
10°-20°	19.8	0.1
20°-30°	253.1	1.9
30°-40°	853.2	6.3
40°-50°	2576.9	19.0
50°-60°	4548.9	33.5
60°-70°	4005.4	29.5
70°-80°	1274.9	9.4
80°-90°	30.5	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°	13566.6	100.0
0°-180°	13566.6	100.0



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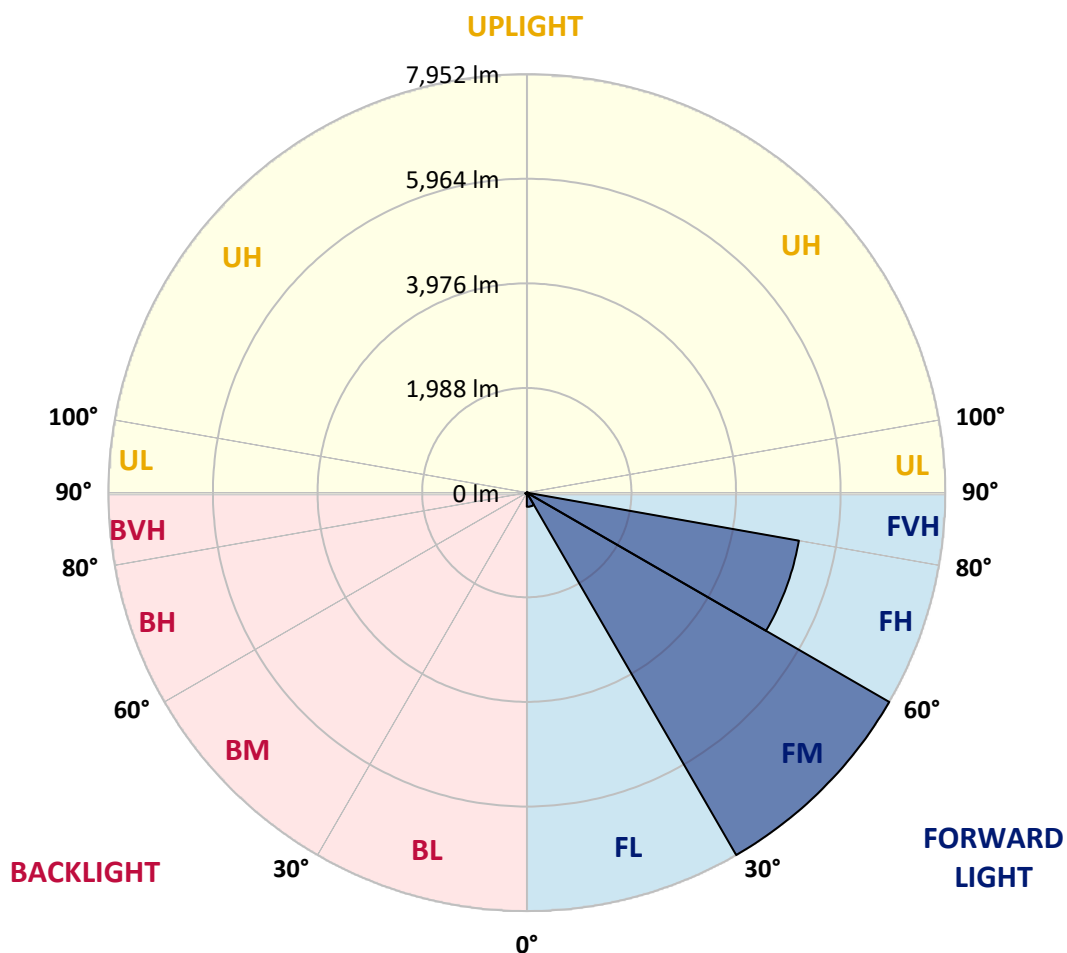
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	269.5	2.0			
FM	(30°-60°)	7952.3	58.6			
FH	(60°-80°)	5250.4	38.7			G3/7500
FVH	(80°-90°)	29.0	0.2			G1/100
BL	(0°-30°)	7.3	0.1	B0/110		
BM	(30°-60°)	26.7	0.2	B0/220		
BH	(60°-80°)	29.9	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°	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3
2.5°	59.6	59.6	55.3	51.0	46.8	42.5	42.5	42.5	38.3	38.3	34.0
5°	68.1	68.1	63.8	59.6	59.6	55.3	55.3	51.0	46.8	46.8	42.5
7.5°	72.3	72.3	72.3	72.3	68.1	68.1	68.1	63.8	59.6	55.3	51.0
10°	76.6	80.8	85.1	85.1	85.1	85.1	85.1	80.8	72.3	68.1	59.6
12.5°	85.1	89.3	97.8	106.3	106.3	110.6	106.3	102.1	93.6	80.8	68.1
15°	93.6	102.1	114.8	131.9	148.9	153.1	153.1	140.4	123.4	97.8	80.8
17.5°	106.3	119.1	153.1	208.4	268.0	314.8	314.8	280.7	195.7	127.6	93.6
20°	114.8	140.4	246.7	501.9	765.6	961.3	923.0	816.7	438.1	199.9	102.1
22.5°	127.6	178.7	523.2	1318.6	2041.7	2399.0	2313.9	1756.7	982.6	357.3	123.4
25°	144.6	259.5	1037.9	2471.3	3794.2	4181.3	4126.0	3279.5	1790.8	599.8	157.4
27.5°	178.7	382.8	1663.2	3747.4	5597.7	5929.5	5908.2	4802.3	2862.7	965.6	204.2
30°	225.4	557.2	2467.1	5091.5	6793.0	7129.0	7022.7	5916.7	3862.3	1476.0	263.7
32.5°	280.7	778.4	3194.4	6082.6	7894.6	8337.0	8209.4	6886.5	4666.2	1909.9	391.3
35°	365.8	995.3	3913.3	6958.9	9166.5	9727.9	9515.3	7886.1	5359.5	2399.0	472.1
37.5°	408.3	1122.9	4572.6	7911.7	10595.7	11361.3	11199.7	9149.5	6065.6	3024.3	578.5
40°	412.6	1276.1	5257.4	9153.7	12616.1	13981.5	13692.3	11318.8	7380.0	3828.2	744.4
42.5°	425.4	1505.8	6146.4	11272.0	16584.7	18545.6	18218.1	15308.6	10361.7	5440.3	1054.9
45°	484.9	1939.6	7958.4	15232.1	22033.5	24909.0	24530.4	20868.1	14526.0	8473.1	1799.3
47.5°	693.3	2918.0	11135.9	19506.9	27605.7	29898.4	29804.8	25249.3	18298.9	11582.5	3049.8
50°	1114.4	4479.0	14751.4	23101.2	31153.2	33122.6	32888.7	27078.3	20451.2	13705.0	3909.0
52.5°	1488.8	5972.0	17022.8	24424.1	32212.4	34560.3	34275.4	27746.1	21016.9	14330.3	4147.2
55°	1582.3	6512.2	17699.1	24832.4	32914.2	35776.9	35364.3	28192.7	21089.3	13883.7	3751.7
57.5°	1535.5	6001.8	17261.0	25232.2	33892.5	37027.4	36478.7	29064.7	21331.7	13126.6	3122.1
59°	1454.7	5372.3	16988.8	25551.3	34432.7	37223.1	36708.4	29256.1	21493.3	12782.0	2739.3
60°	1361.1	4946.9	16776.1	25759.7	34398.7	36916.8	36385.1	29166.8	21557.1	12484.3	2556.4
62.5°	1050.6	3947.3	16469.9	25610.8	32250.6	34122.2	33820.2	26980.5	20621.4	11531.5	2016.2
65°	816.7	3020.0	15346.9	22841.7	27444.1	28703.2	28609.6	22846.0	17354.6	9940.6	1454.7
67.5°	646.5	2203.4	12977.7	18498.8	22080.3	23871.1	23803.0	18545.6	13173.3	7596.9	1046.4
70°	527.4	1569.6	8898.5	13947.5	17660.9	19915.3	19817.4	14925.8	9762.0	4819.3	761.4
72.5°	446.6	1003.8	5397.8	10514.9	14738.7	16027.5	15742.5	12041.9	7099.2	2624.5	604.0
75°	378.6	616.8	2675.5	6554.8	8779.4	8770.9	8485.9	6376.1	3811.2	1284.6	480.7
77.5°	306.3	433.9	1050.6	1799.3	2769.1	3428.4	3373.1	2258.7	1140.0	374.3	297.8
80°	199.9	204.2	280.7	493.4	761.4	842.2	957.1	689.1	331.8	178.7	123.4
82.5°	89.3	97.8	127.6	161.6	161.6	148.9	131.9	97.8	72.3	59.6	29.8
85°	21.3	29.8	21.3	25.5	21.3	17.0	17.0	8.5	0.0	0.0	0.0
87.5°	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3
2.5°	34.0	34.0	34.0	29.8	29.8	29.8	25.5	25.5	25.5	21.3	21.3
5°	42.5	38.3	34.0	34.0	29.8	29.8	25.5	21.3	21.3	21.3	17.0
7.5°	46.8	42.5	38.3	34.0	29.8	25.5	25.5	21.3	17.0	17.0	17.0
10°	55.3	51.0	42.5	34.0	29.8	25.5	21.3	21.3	17.0	12.8	12.8
12.5°	63.8	55.3	46.8	38.3	29.8	25.5	21.3	21.3	17.0	12.8	8.5
15°	72.3	63.8	51.0	38.3	29.8	25.5	21.3	21.3	12.8	8.5	4.3
17.5°	80.8	68.1	51.0	42.5	29.8	25.5	21.3	17.0	8.5	4.3	0.0
20°	85.1	72.3	55.3	42.5	29.8	25.5	21.3	12.8	4.3	0.0	0.0
22.5°	93.6	80.8	59.6	42.5	29.8	21.3	12.8	4.3	0.0	0.0	0.0
25°	110.6	85.1	59.6	42.5	29.8	21.3	8.5	0.0	0.0	0.0	0.0
27.5°	123.4	93.6	59.6	42.5	29.8	17.0	4.3	0.0	0.0	0.0	0.0
30°	144.6	102.1	63.8	42.5	29.8	12.8	4.3	0.0	0.0	0.0	0.0
32.5°	178.7	110.6	63.8	42.5	25.5	12.8	0.0	0.0	0.0	0.0	0.0
35°	216.9	127.6	63.8	42.5	25.5	12.8	0.0	0.0	0.0	0.0	0.0
37.5°	221.2	136.1	63.8	42.5	25.5	8.5	0.0	0.0	0.0	0.0	0.0
40°	229.7	127.6	68.1	42.5	25.5	8.5	0.0	0.0	0.0	0.0	0.0
42.5°	263.7	119.1	72.3	42.5	25.5	8.5	0.0	0.0	0.0	0.0	0.0
45°	391.3	123.4	72.3	46.8	25.5	12.8	0.0	0.0	0.0	0.0	0.0
47.5°	680.6	127.6	68.1	46.8	25.5	12.8	0.0	0.0	0.0	0.0	0.0
50°	872.0	148.9	68.1	51.0	29.8	8.5	0.0	0.0	0.0	0.0	0.0
52.5°	927.3	174.4	68.1	55.3	38.3	4.3	0.0	0.0	0.0	0.0	0.0
55°	901.8	204.2	72.3	59.6	46.8	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	833.7	221.2	76.6	63.8	51.0	0.0	0.0	0.0	0.0	0.0	0.0
59°	761.4	233.9	89.3	68.1	51.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	701.8	246.7	93.6	72.3	51.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	565.7	263.7	102.1	85.1	42.5	0.0	0.0	0.0	0.0	0.0	0.0
65°	493.4	276.5	106.3	93.6	38.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	450.9	285.0	114.8	97.8	34.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	416.9	280.7	123.4	93.6	29.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	378.6	268.0	148.9	85.1	25.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	340.3	242.5	161.6	76.6	17.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	246.7	204.2	148.9	68.1	8.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	106.3	110.6	106.3	51.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	21.3	25.5	21.3	12.8	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°	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3
2.5°	21.3	21.3	21.3	21.3	25.5	25.5	34.0	42.5	51.0	55.3	55.3
5°	17.0	17.0	17.0	17.0	17.0	21.3	25.5	34.0	46.8	51.0	51.0
7.5°	12.8	12.8	12.8	12.8	12.8	12.8	21.3	29.8	42.5	46.8	51.0
10°	12.8	8.5	8.5	4.3	4.3	8.5	12.8	25.5	38.3	42.5	46.8
12.5°	8.5	4.3	4.3	0.0	0.0	4.3	8.5	21.3	34.0	38.3	42.5
15°	4.3	0.0	0.0	0.0	0.0	0.0	4.3	17.0	29.8	34.0	42.5
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.8	25.5	34.0	38.3
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	21.3	29.8	34.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	17.0	25.5	29.8
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.8	17.0	21.3
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	12.8	17.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	12.8	17.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	8.5	12.8
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	8.5	12.8
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	8.5	8.5
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	8.5
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	8.5
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	8.5
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	8.5
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	8.5
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	8.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	8.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	318°	325°	335°	345°	355°	360°
0°	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3
2.5°	59.6	59.6	55.3	51.0	51.0	51.0	55.3	59.6	59.6	59.6
5°	55.3	55.3	51.0	51.0	51.0	51.0	55.3	63.8	68.1	68.1
7.5°	55.3	55.3	51.0	51.0	51.0	51.0	55.3	63.8	68.1	72.3
10°	51.0	51.0	51.0	51.0	46.8	51.0	55.3	63.8	76.6	76.6
12.5°	51.0	51.0	51.0	51.0	46.8	51.0	59.6	68.1	80.8	85.1
15°	51.0	51.0	51.0	46.8	46.8	51.0	59.6	72.3	85.1	93.6
17.5°	46.8	51.0	51.0	46.8	46.8	51.0	59.6	72.3	93.6	106.3
20°	42.5	46.8	51.0	46.8	46.8	46.8	59.6	72.3	97.8	114.8
22.5°	38.3	42.5	46.8	46.8	42.5	46.8	59.6	76.6	106.3	127.6
25°	34.0	38.3	38.3	42.5	42.5	46.8	59.6	76.6	110.6	144.6
27.5°	25.5	29.8	34.0	38.3	38.3	46.8	59.6	80.8	119.1	178.7
30°	21.3	25.5	29.8	34.0	38.3	46.8	59.6	80.8	127.6	225.4
32.5°	21.3	25.5	29.8	34.0	38.3	42.5	59.6	85.1	140.4	280.7
35°	17.0	21.3	25.5	34.0	34.0	42.5	59.6	85.1	153.1	365.8
37.5°	17.0	21.3	25.5	34.0	34.0	42.5	59.6	85.1	187.2	408.3
40°	12.8	17.0	21.3	34.0	34.0	42.5	63.8	89.3	191.4	412.6
42.5°	12.8	17.0	21.3	29.8	34.0	42.5	63.8	89.3	178.7	425.4
45°	12.8	17.0	21.3	34.0	38.3	46.8	63.8	93.6	174.4	484.9
47.5°	12.8	17.0	21.3	34.0	42.5	46.8	63.8	93.6	178.7	693.3
50°	12.8	17.0	21.3	34.0	46.8	46.8	63.8	93.6	195.7	1114.4
52.5°	8.5	12.8	17.0	29.8	38.3	51.0	68.1	89.3	208.4	1488.8
55°	8.5	8.5	12.8	25.5	34.0	55.3	72.3	89.3	242.5	1582.3
57.5°	8.5	8.5	12.8	21.3	29.8	59.6	76.6	89.3	280.7	1535.5
59°	8.5	8.5	8.5	21.3	25.5	59.6	76.6	93.6	285.0	1454.7
60°	8.5	8.5	8.5	17.0	25.5	59.6	80.8	97.8	289.2	1361.1
62.5°	4.3	4.3	4.3	17.0	21.3	59.6	89.3	119.1	297.8	1050.6
65°	8.5	8.5	4.3	12.8	21.3	51.0	102.1	127.6	302.0	816.7
67.5°	8.5	8.5	8.5	17.0	21.3	51.0	106.3	131.9	302.0	646.5
70°	8.5	8.5	8.5	17.0	25.5	51.0	106.3	136.1	297.8	527.4
72.5°	8.5	8.5	8.5	17.0	25.5	46.8	97.8	140.4	285.0	446.6
75°	8.5	8.5	8.5	12.8	21.3	42.5	93.6	153.1	259.5	378.6
77.5°	8.5	8.5	8.5	8.5	17.0	34.0	85.1	170.1	229.7	306.3
80°	12.8	8.5	8.5	8.5	12.8	29.8	80.8	165.9	191.4	199.9
82.5°	12.8	8.5	8.5	4.3	8.5	21.3	63.8	127.6	97.8	89.3
85°	8.5	8.5	8.5	4.3	4.3	12.8	29.8	38.3	29.8	21.3
87.5°	8.5	8.5	8.5	4.3	4.3	4.3	4.3	4.3	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-2

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-722-U-5WQ

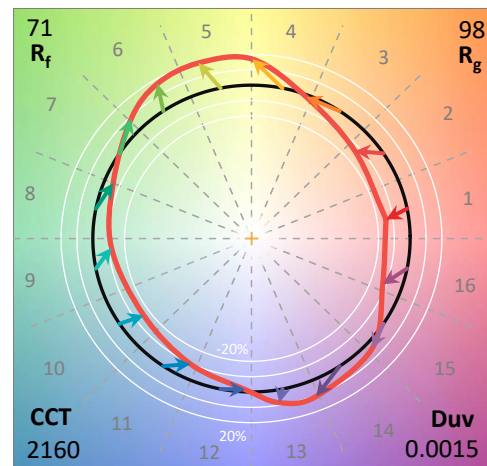
Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-2
 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-722-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2200K CCT 26 LEDS

Spectral Parameters

CCT (K):	2160	CRI (Ra):	71.9		
CIE u':	0.2927	R1:	68.7	R9:	-17.8
CIE v':	0.5388	R2:	82.6	R10:	60.5
Duv:	0.0015	R3:	95.5	R11:	60.2
CIE x:	0.5130	R4:	66.4	R12:	48.2
CIE y:	0.4197	R5:	65.4	R13:	70.7
CIE z:	0.0674	R6:	75.9	R14:	96.8
Peak Wavelength (nm):	609	R7:	77.2	R15:	61.8
Dominant Wavelength (nm):	587	R8:	43.5		
Purity:	79.96089				
Rf:	70.6				
Rg:	97.6				



Test Conditions

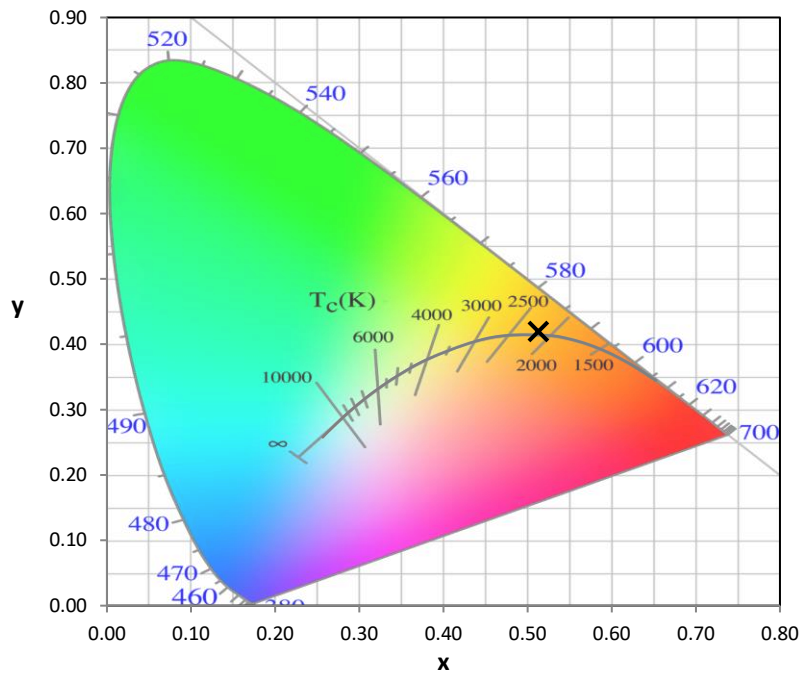
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-2

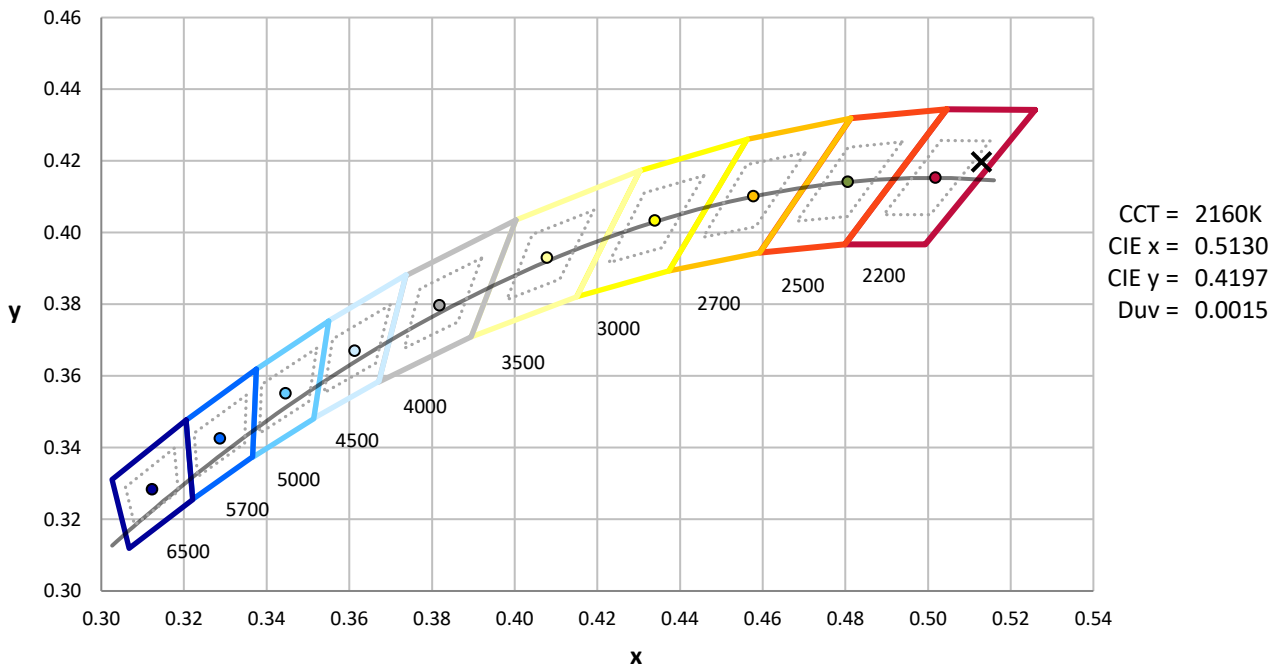
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



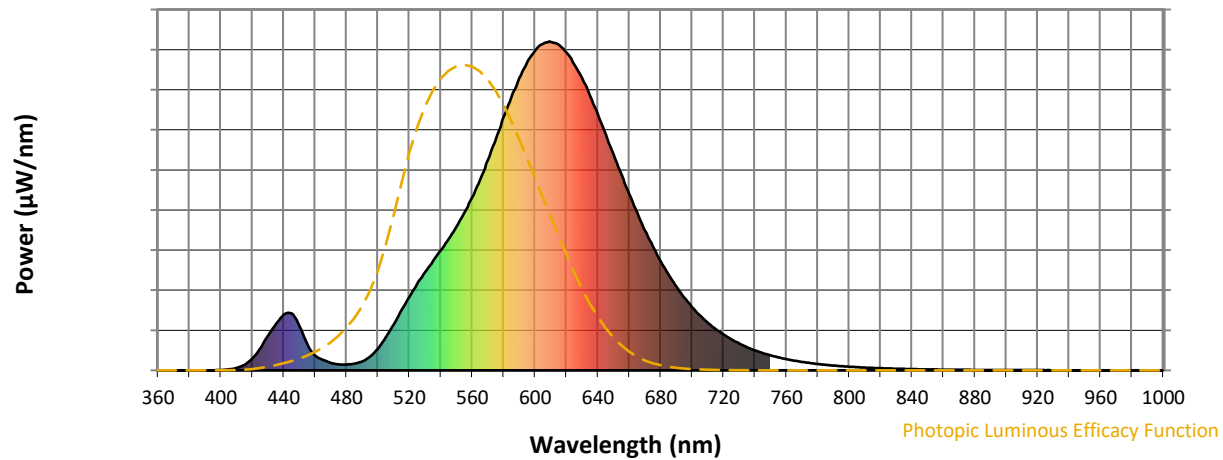
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

Photopic Flux vs. Wavelength

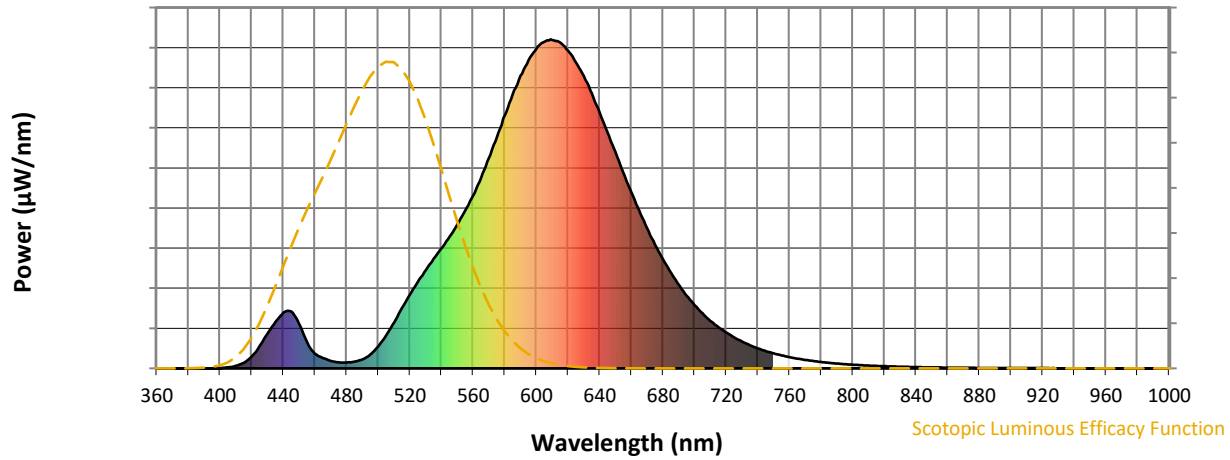


Photopic Lumens: NR

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

Scotopic Flux vs. Wavelength



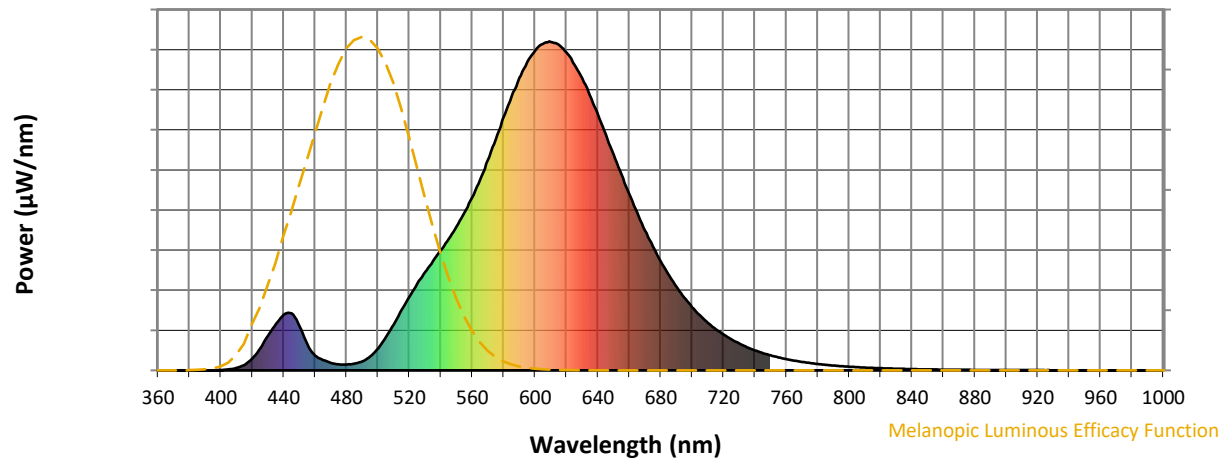
Scotopic Lumens: NR

S/P: 0.8

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.21

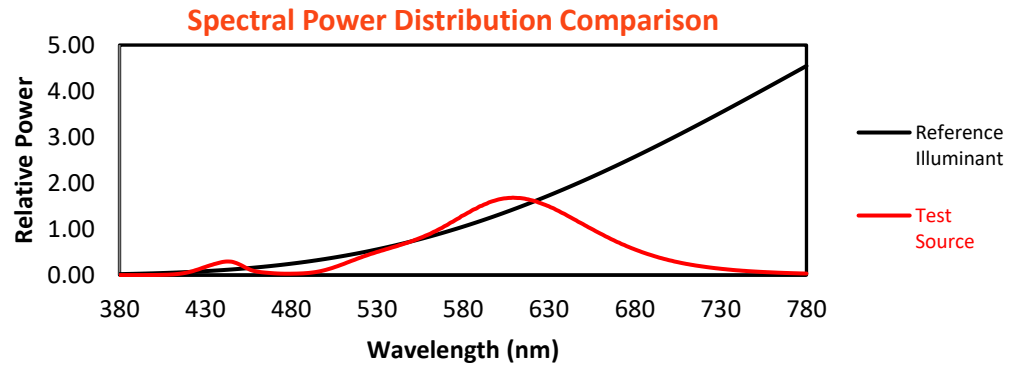
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

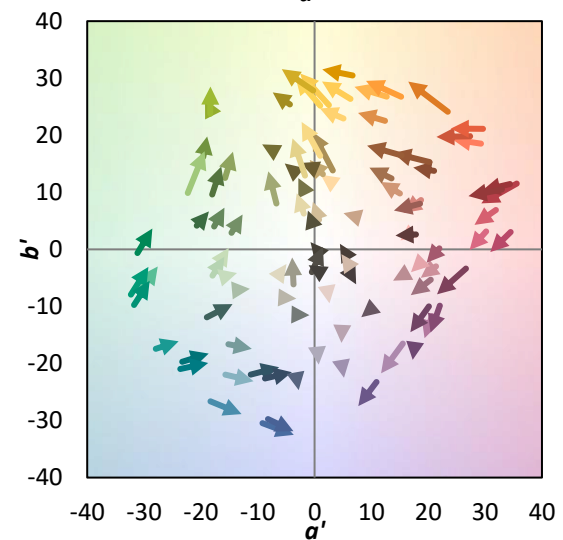
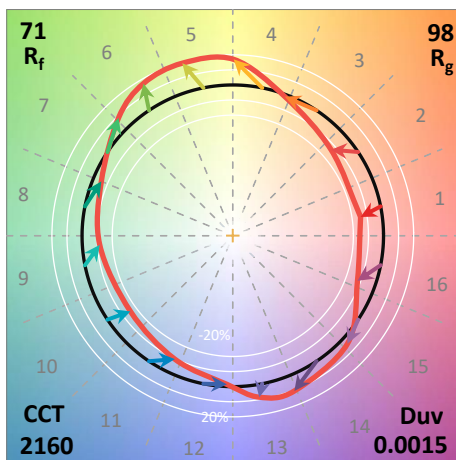
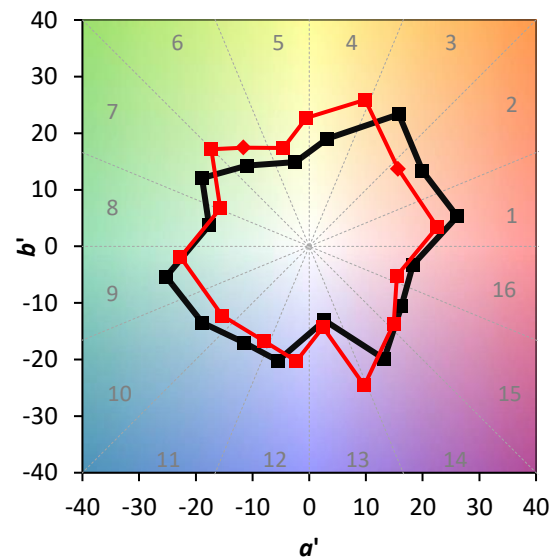
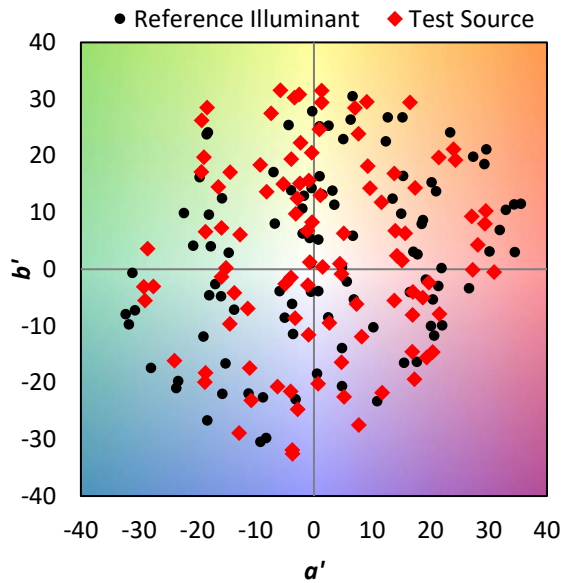
TM-30-18

Summary

$R_f = 70.6$
 $R_g = 97.6$
 $CIE R_a = 71.9$
 $R_g = -17.8$

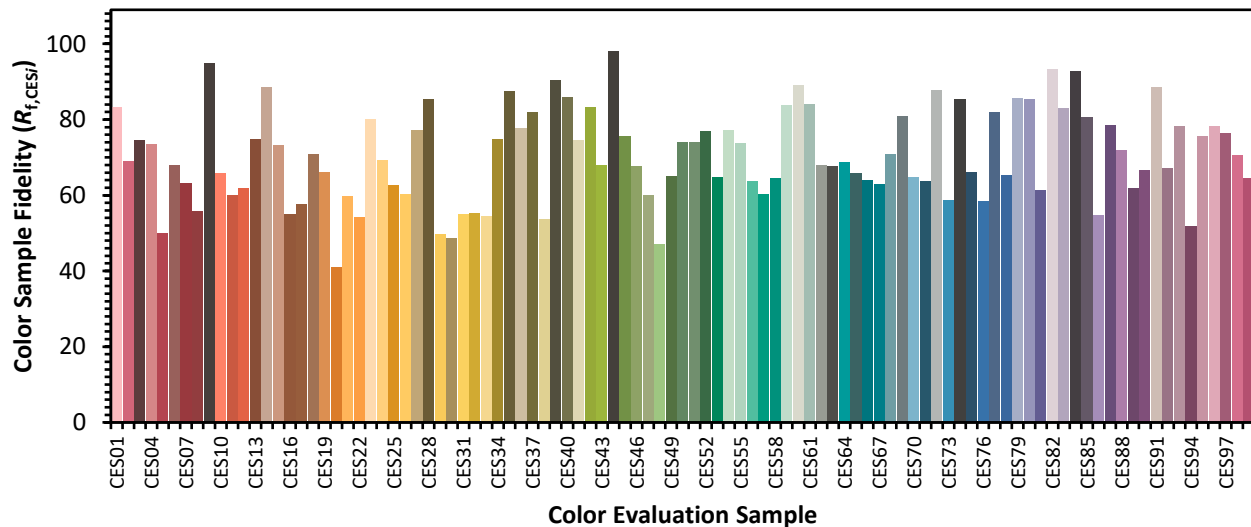


Color Vector Graphics

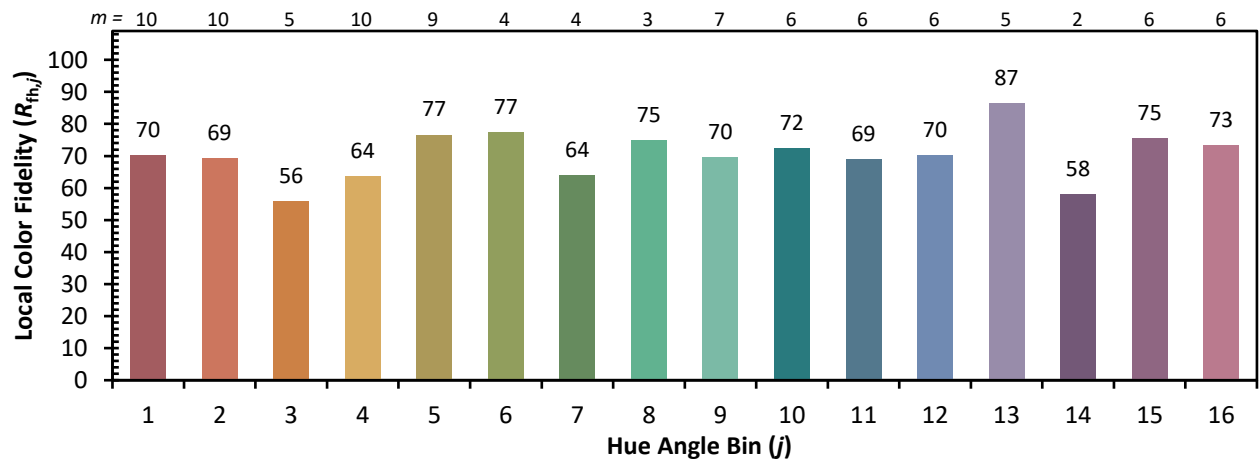
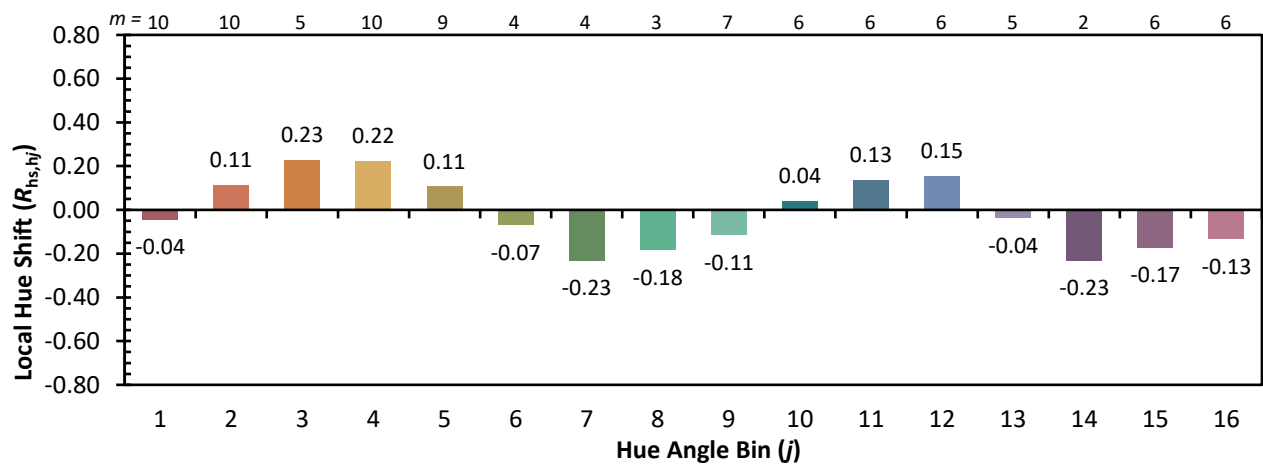
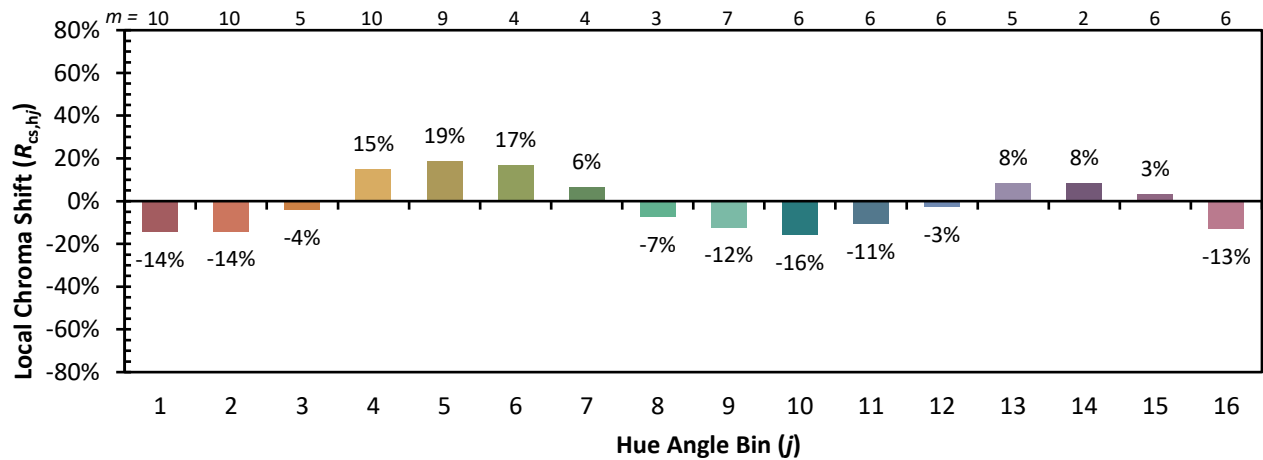


Individual Sample Fidelity Index ($R_{f,i}$)

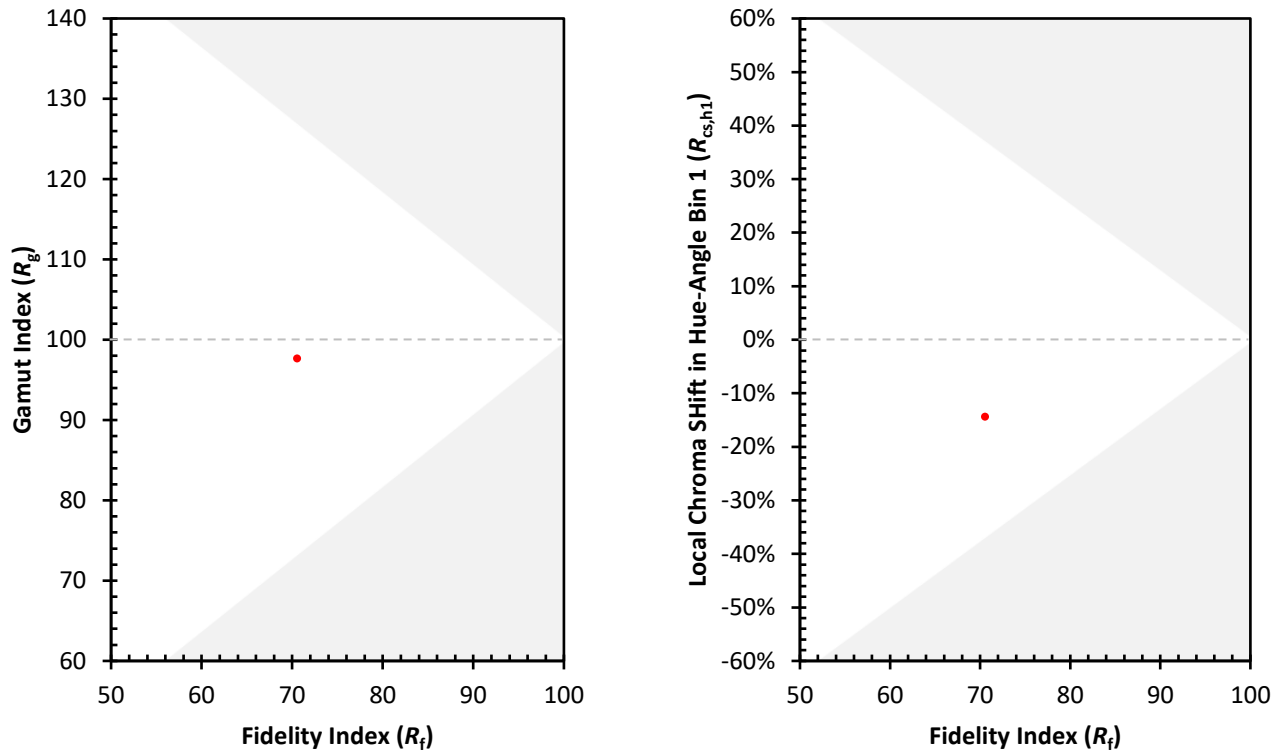
CES01 = 87	CES26 = 60	CES51 = 74	CES76 = 58
CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82 = 93
CES08 = 43	CES33 = 55	CES58 = 64	CES83 = 83
CES09 = 29	CES34 = 75	CES59 = 84	CES84 = 93
CES10 = 79	CES35 = 88	CES60 = 89	CES85 = 81
CES11 = 62	CES36 = 78	CES61 = 84	CES86 = 55
CES12 = 68	CES37 = 82	CES62 = 68	CES87 = 79
CES13 = 45	CES38 = 54	CES63 = 68	CES88 = 72
CES14 = 75	CES39 = 90	CES64 = 69	CES89 = 62
CES15 = 72	CES40 = 86	CES65 = 66	CES90 = 67
CES16 = 49	CES41 = 75	CES66 = 64	CES91 = 89
CES17 = 51	CES42 = 83	CES67 = 63	CES92 = 67
CES18 = 57	CES43 = 68	CES68 = 71	CES93 = 78
CES19 = 74	CES44 = 98	CES69 = 81	CES94 = 52
CES20 = 68	CES45 = 76	CES70 = 65	CES95 = 76
CES21 = 89	CES46 = 68	CES71 = 64	CES96 = 78
CES22 = 81	CES47 = 60	CES72 = 88	CES97 = 76
CES23 = 92	CES48 = 47	CES73 = 59	CES98 = 71
CES24 = 92	CES49 = 65	CES74 = 85	CES99 = 65
CES25 = 74	CES50 = 74	CES75 = 66	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)