

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: STREETWORKS

Report Number: P1057647

Luminaire Tested: **GAP-SA1B-722-U-RBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1057647
Test Lab: INNOVATION CENTER(G1)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-SA1B-722-U-RBC
Description: GALLEON PEDESTRAIAN COMPANION 800mA 1xLight Square PACKAGE 70CRI
2200K FIXTURE w/ RIGHT CORNER BACKLIGHT CONTROL
Light Source: (14) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2979.7 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 38.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

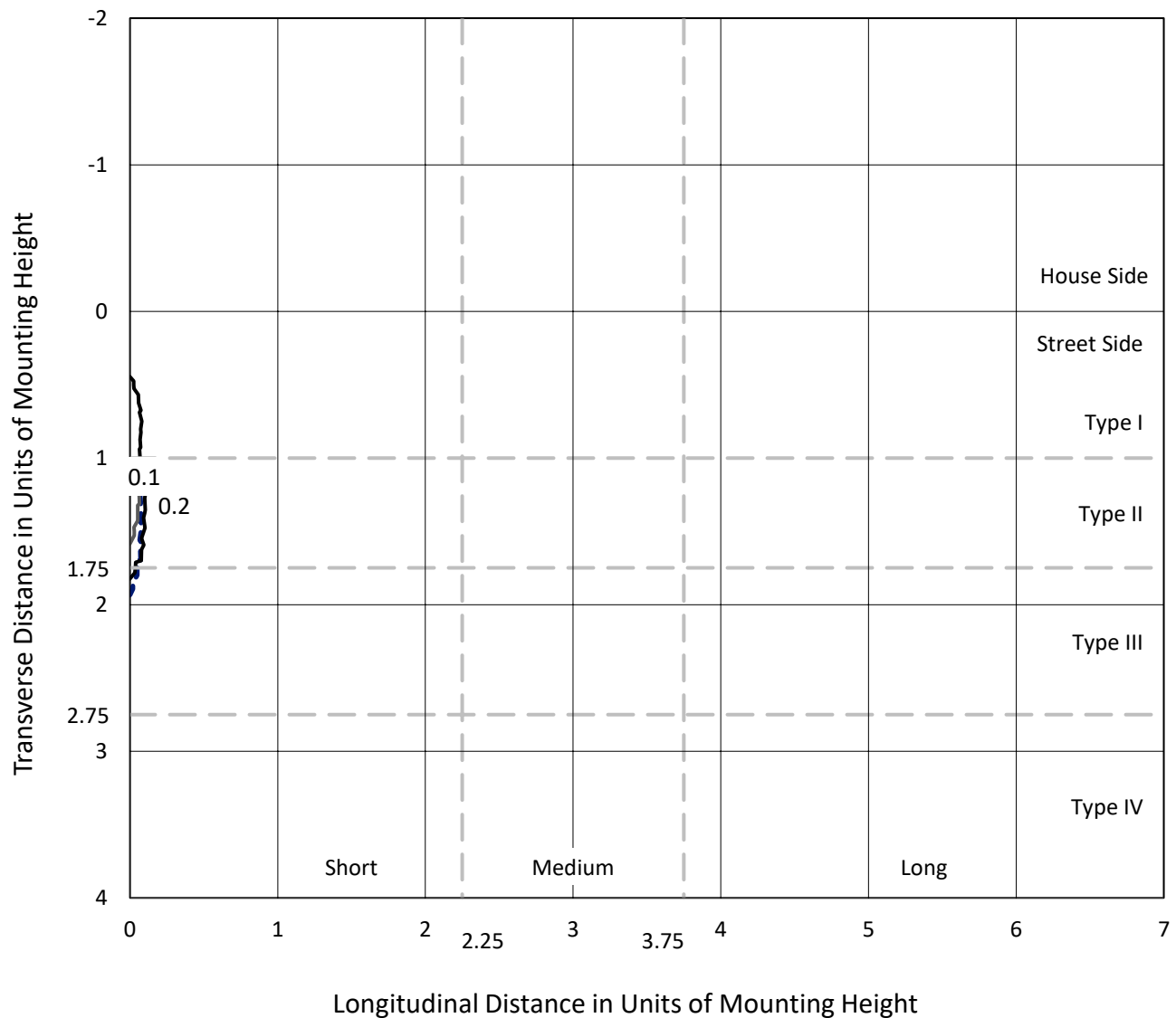


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

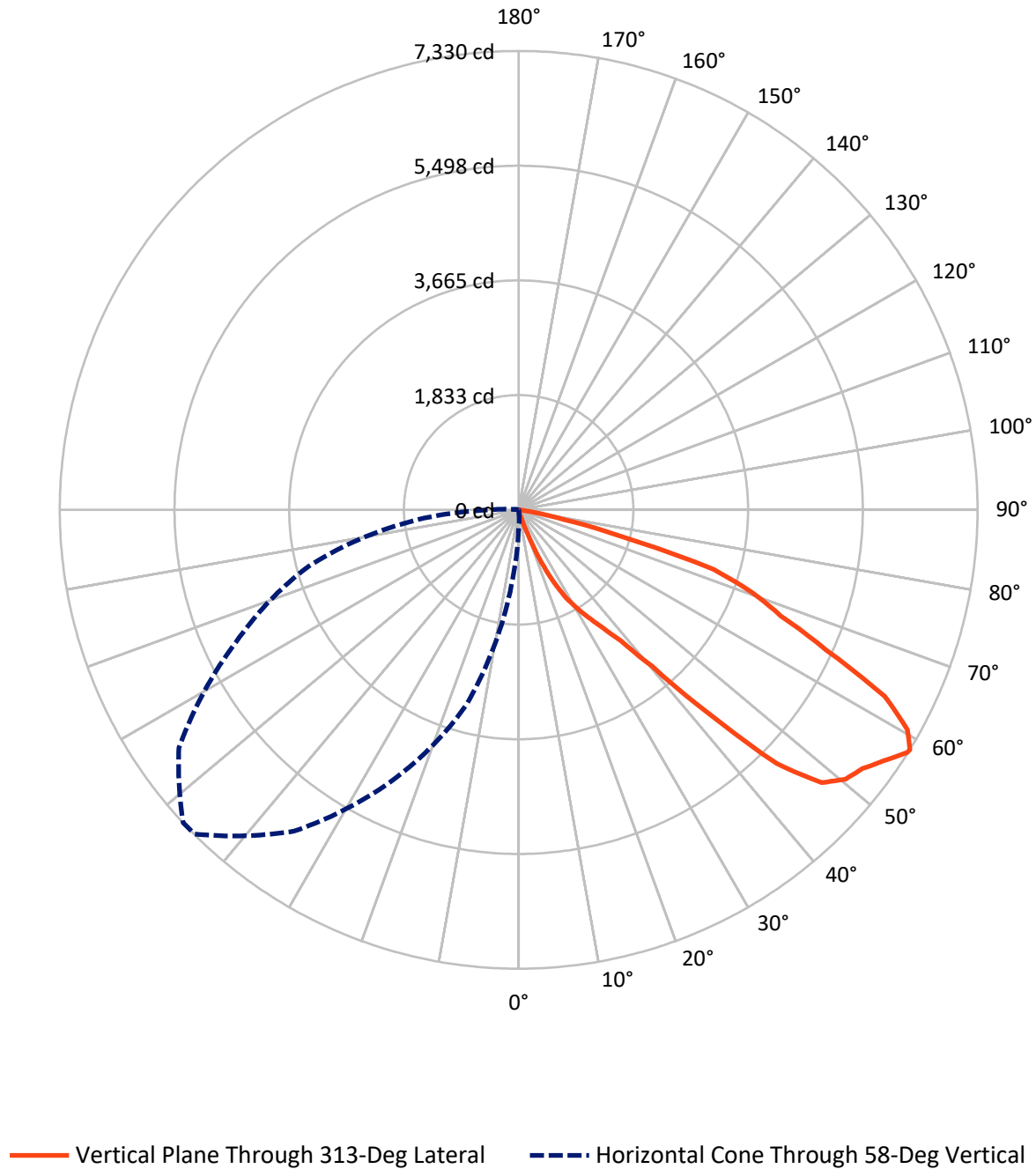


Based on 15 foot mounting height. Maximum calculated value = 0.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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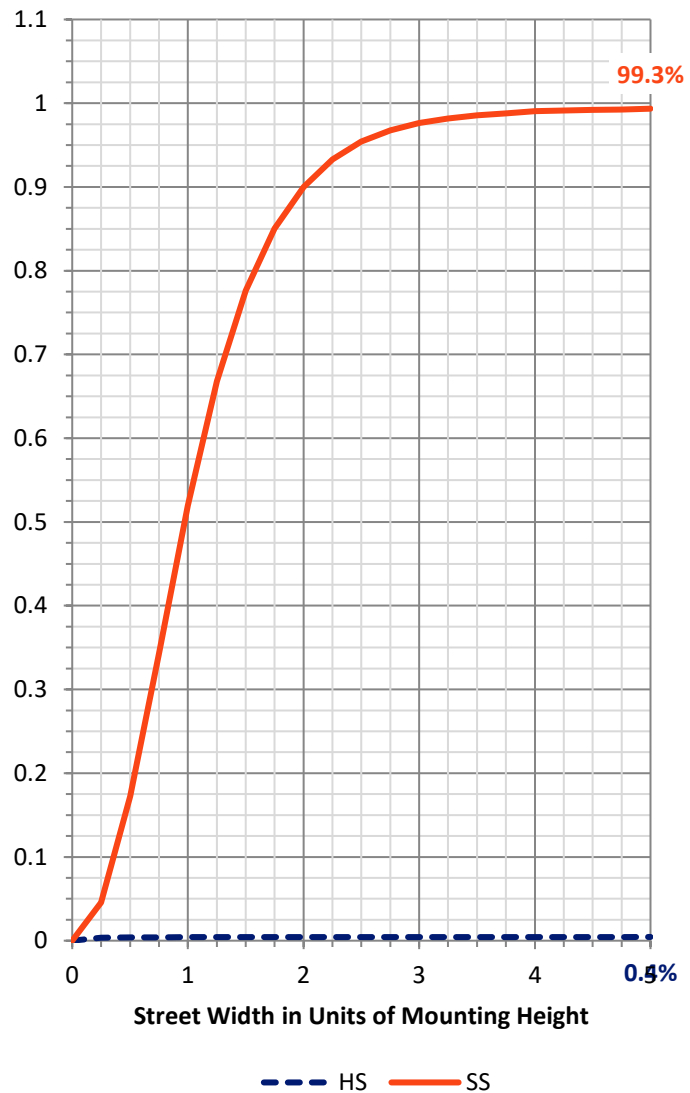
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13.3	0.0	13.3
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	2966.4	0.0	2966.4
	% Fixture	99.6	0.0	99.6
Total	Lumens	2979.7	0.0	2979.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.4	0.0
10°-20°	5.2	0.2
20°-30°	75.2	2.5
30°-40°	216.3	7.3
40°-50°	616.2	20.7
50°-60°	969.3	32.5
60°-70°	826.6	27.7
70°-80°	263.7	8.8
80°-90°	6.7	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°	2979.7	100.0
0°-180°	2979.7	100.0



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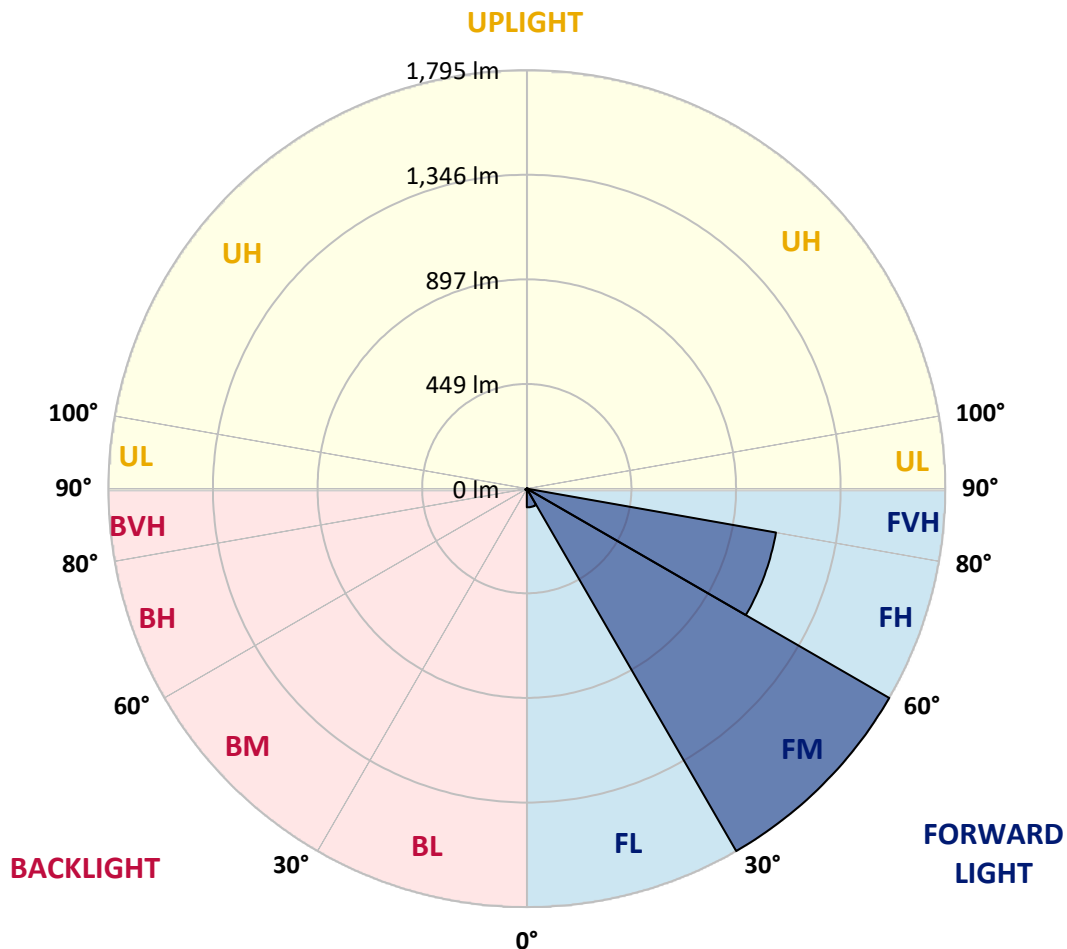
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	80.3	2.7			
FM	(30°-60°)	1794.7	60.2			
FH	(60°-80°)	1085.0	36.4			G1/1800
FVH	(80°-90°)	6.3	0.2			G0/10
BL	(0°-30°)	0.5	0.0	B0/110		
BM	(30°-60°)	7.1	0.2	B0/220		
BH	(60°-80°)	5.3	0.2	B0/110		G0/110
BVH	(80°-90°)	0.4	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
2.5°	10.7	11.3	11.9	11.3	10.1	7.8	7.8	6.0	4.2	2.4	1.8
5°	11.9	11.9	11.9	11.3	10.1	7.8	7.2	5.4	3.6	2.4	1.2
7.5°	13.1	13.1	12.5	11.3	9.5	7.8	7.2	5.4	3.6	1.8	0.0
10°	14.3	14.3	13.1	11.9	9.5	7.2	6.6	4.8	3.0	1.2	0.0
12.5°	16.1	15.5	13.7	11.9	9.5	6.6	6.6	4.8	2.4	0.6	0.0
15°	18.5	16.7	14.3	11.9	8.9	6.6	6.0	4.2	1.8	0.0	0.0
17.5°	20.3	18.5	14.9	11.3	8.3	6.0	5.4	3.6	1.8	0.0	0.0
20°	22.1	19.1	14.9	11.3	8.3	5.4	4.8	3.0	0.6	0.0	0.0
22.5°	25.0	20.3	14.9	11.3	7.8	4.8	4.2	2.4	0.0	0.0	0.0
25°	31.0	21.5	14.9	10.7	7.2	4.2	3.6	1.2	0.0	0.0	0.0
27.5°	38.2	23.3	14.9	10.1	6.6	3.6	3.0	0.6	0.0	0.0	0.0
30°	45.9	25.0	14.9	10.1	6.0	3.0	2.4	0.0	0.0	0.0	0.0
32.5°	54.3	27.4	14.9	9.5	5.4	2.4	1.8	0.0	0.0	0.0	0.0
35°	69.8	31.0	14.9	9.5	4.8	1.8	1.2	0.0	0.0	0.0	0.0
37.5°	76.9	35.8	14.9	8.9	4.8	1.2	0.6	0.0	0.0	0.0	0.0
40°	79.9	34.6	14.3	8.9	4.2	0.6	0.0	0.0	0.0	0.0	0.0
42.5°	86.5	32.2	14.9	8.3	4.2	0.6	0.0	0.0	0.0	0.0	0.0
45°	105.5	32.2	16.1	8.3	3.6	1.2	0.0	0.0	0.0	0.0	0.0
47.5°	183.1	33.4	15.5	8.3	3.6	1.2	0.0	0.0	0.0	0.0	0.0
50°	301.1	39.4	14.9	8.9	4.2	0.6	0.0	0.0	0.0	0.0	0.0
52.5°	349.4	47.7	14.9	9.5	5.4	0.0	0.0	0.0	0.0	0.0	0.0
55°	335.1	58.4	14.9	10.1	6.6	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	304.7	55.5	16.1	11.9	8.3	0.0	0.0	0.0	0.0	0.0	0.0
58°	293.4	55.5	16.1	11.9	8.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	230.2	56.7	18.5	13.1	8.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	171.1	57.8	20.9	14.9	8.9	0.6	0.0	0.0	0.0	0.0	0.0
65°	127.0	60.2	22.1	17.3	8.3	1.2	0.0	0.0	0.0	0.0	0.0
67.5°	101.4	62.0	23.9	19.1	9.5	2.4	0.6	0.0	0.0	0.0	0.0
70°	87.1	59.6	25.6	19.7	8.9	3.6	1.8	0.0	0.0	0.0	0.0
72.5°	77.5	56.1	29.2	19.1	9.5	3.6	1.8	0.0	0.0	0.0	0.0
75°	69.8	51.3	33.4	18.5	9.5	3.6	2.4	0.0	0.0	0.0	0.0
77.5°	52.5	44.7	32.8	17.9	8.9	3.6	2.4	0.0	0.0	0.0	0.0
80°	26.2	29.8	28.6	16.1	7.2	3.0	2.4	0.6	0.0	0.0	0.0
82.5°	10.7	11.3	14.3	11.9	6.0	2.4	2.4	0.6	0.0	0.0	0.0
85°	1.2	2.4	4.2	4.8	4.2	2.4	2.4	0.6	0.0	0.0	0.0
87.5°	0.0	0.6	2.4	3.6	3.0	1.8	1.2	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°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
2.5°	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
5°	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	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°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
2.5°	0.6	1.2	1.2	1.2	1.8	1.8	2.4	3.0	3.0	3.0	3.6
5°	0.0	0.0	0.6	0.6	1.2	1.8	2.4	3.6	4.2	4.2	4.8
7.5°	0.0	0.0	0.0	0.6	1.2	1.8	2.4	3.6	4.8	5.4	6.0
10°	0.0	0.0	0.0	0.0	0.6	1.2	2.4	4.2	6.0	7.2	8.3
12.5°	0.0	0.0	0.0	0.0	0.0	0.6	2.4	4.8	7.2	8.9	10.1
15°	0.0	0.0	0.0	0.0	0.0	0.6	2.4	4.8	8.9	10.7	13.1
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	5.4	10.1	13.1	17.9
20°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	5.4	11.3	16.1	26.8
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	5.4	12.5	20.9	49.5
25°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	5.4	14.3	31.0	82.3
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	6.0	17.3	43.5	120.5
30°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	6.0	21.5	59.0	168.2
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	6.0	25.0	74.5	229.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	29.8	99.0	287.4
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	37.0	109.1	336.9
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	35.2	118.7	393.6
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	32.2	132.4	482.4
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	32.2	175.3	679.2
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	39.4	273.1	1038.2
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	50.7	419.2	1478.3
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	61.4	515.8	1733.5
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	73.9	516.4	1725.2
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	82.3	462.2	1557.0
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	81.7	447.2	1510.5
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	6.0	71.6	388.2	1318.5
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	9.5	62.6	278.5	1093.1
65°	0.0	0.0	0.0	0.0	0.0	0.0	4.8	10.7	57.2	202.2	820.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.0	12.5	54.9	143.1	570.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	7.2	14.3	50.7	102.6	375.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.2	17.9	47.7	80.5	226.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	7.2	22.7	41.7	65.6	121.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.2	24.4	34.6	47.7	73.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	6.6	22.1	25.0	20.9	25.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.6	13.1	5.4	5.4	8.3
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):

	285°	295°	305°	313°	315°	325°	335°	345°	355°	360°
0°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
2.5°	4.2	4.2	4.2	4.2	4.8	4.8	6.6	8.3	10.1	10.7
5°	5.4	6.0	6.6	6.6	6.6	7.2	8.3	9.5	11.3	11.9
7.5°	7.8	8.3	9.5	9.5	9.5	10.1	10.7	11.9	13.1	13.1
10°	10.1	11.9	12.5	13.1	13.7	13.7	13.7	14.3	14.9	14.3
12.5°	13.7	16.1	19.1	19.7	19.7	19.7	19.1	17.9	16.7	16.1
15°	19.1	26.2	35.8	39.4	37.6	33.4	29.2	22.7	19.7	18.5
17.5°	35.2	71.6	130.0	143.7	140.7	121.1	71.0	34.6	23.3	20.3
20°	94.8	231.4	381.6	418.0	437.1	362.0	209.3	80.5	28.6	22.1
22.5°	204.5	480.6	744.8	839.0	845.0	679.8	407.3	163.4	41.1	25.0
25°	329.2	768.7	1128.8	1220.1	1221.9	1047.7	651.2	264.8	62.6	31.0
27.5°	504.5	1077.6	1480.7	1556.4	1555.2	1378.7	941.0	404.3	87.7	38.2
30°	684.0	1318.5	1712.6	1806.9	1815.8	1604.7	1183.1	569.5	114.5	45.9
32.5°	861.7	1496.8	1924.3	2049.6	2041.8	1804.5	1351.9	704.9	160.4	54.3
35°	1001.8	1648.8	2158.7	2312.5	2318.5	2023.9	1501.5	836.0	199.8	69.8
37.5°	1121.7	1845.0	2470.6	2648.3	2656.0	2297.0	1658.4	964.9	233.8	76.9
40°	1269.6	2167.0	2987.0	3288.7	3289.9	2806.3	1940.4	1109.2	279.7	79.9
42.5°	1601.7	2857.0	3996.0	4429.5	4467.1	3863.0	2581.5	1422.2	351.8	86.5
45°	2266.0	3766.4	5282.8	5782.0	5829.7	5177.9	3680.5	2145.0	510.5	105.5
47.5°	3056.2	4557.1	6030.6	6511.3	6542.9	5799.9	4416.4	2981.0	868.8	183.1
50°	3542.2	4849.9	6305.5	6764.1	6769.5	6004.4	4647.2	3415.2	1238.0	301.1
52.5°	3693.0	4887.5	6316.3	6870.9	6886.4	5980.5	4678.8	3502.8	1391.8	349.4
55°	3631.6	4865.4	6429.6	7074.8	7091.5	6077.7	4657.3	3406.8	1319.7	335.1
57.5°	3491.5	4951.3	6615.6	7316.9	7316.9	6257.2	4736.6	3245.8	1143.2	304.7
58°	3470.6	4972.8	6625.8	7330.0	7324.7	6268.6	4769.4	3222.5	1104.4	293.4
60°	3442.0	5038.9	6550.6	7136.2	7120.7	6188.7	4829.0	3201.7	916.6	230.2
62.5°	3400.2	4889.9	6003.2	6566.1	6526.2	5628.7	4657.9	3079.4	684.0	171.1
65°	3186.2	4339.5	5004.4	5394.4	5381.8	4630.5	4009.1	2758.6	492.6	127.0
67.5°	2685.8	3397.3	4042.5	4512.4	4515.4	3780.1	3135.5	2204.6	335.1	101.4
70°	1889.2	2505.8	3436.6	3959.6	3983.5	3170.7	2322.7	1469.3	221.2	87.1
72.5°	1128.2	1892.7	2857.6	3254.7	3242.2	2631.0	1723.4	876.0	134.8	77.5
75°	546.8	1131.2	1444.3	1675.1	1665.5	1316.1	918.3	429.4	98.4	69.8
77.5°	148.5	347.7	559.4	727.5	747.2	527.2	301.1	115.1	61.4	52.5
80°	50.1	107.3	182.5	248.1	254.6	227.8	113.3	40.6	26.8	26.2
82.5°	19.1	26.2	33.4	29.8	29.8	31.0	24.4	17.3	12.5	10.7
85°	0.0	0.0	0.6	1.2	1.2	1.8	1.8	1.8	1.2	1.2
87.5°	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

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

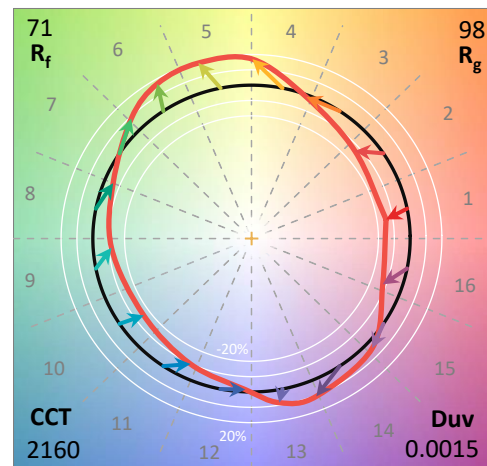
Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

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

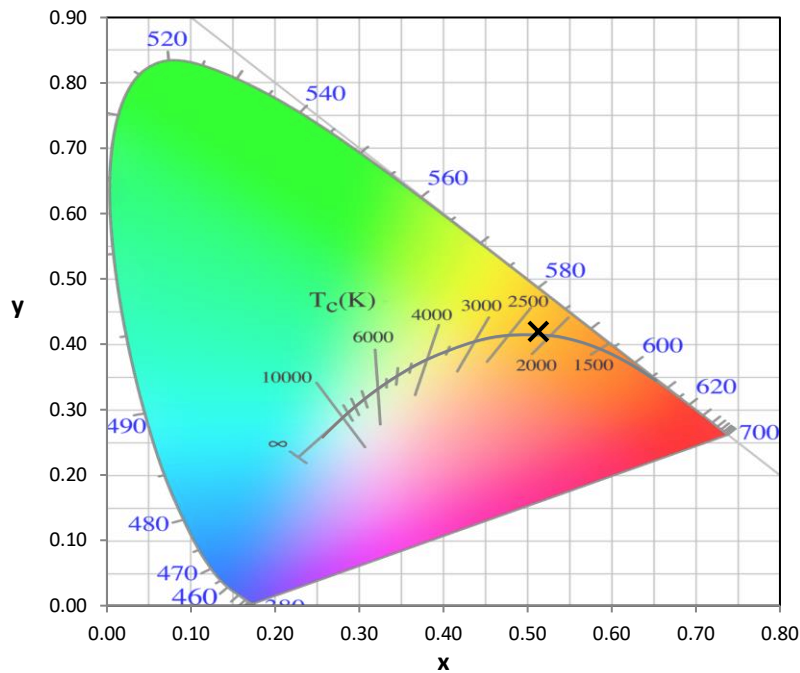
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-2

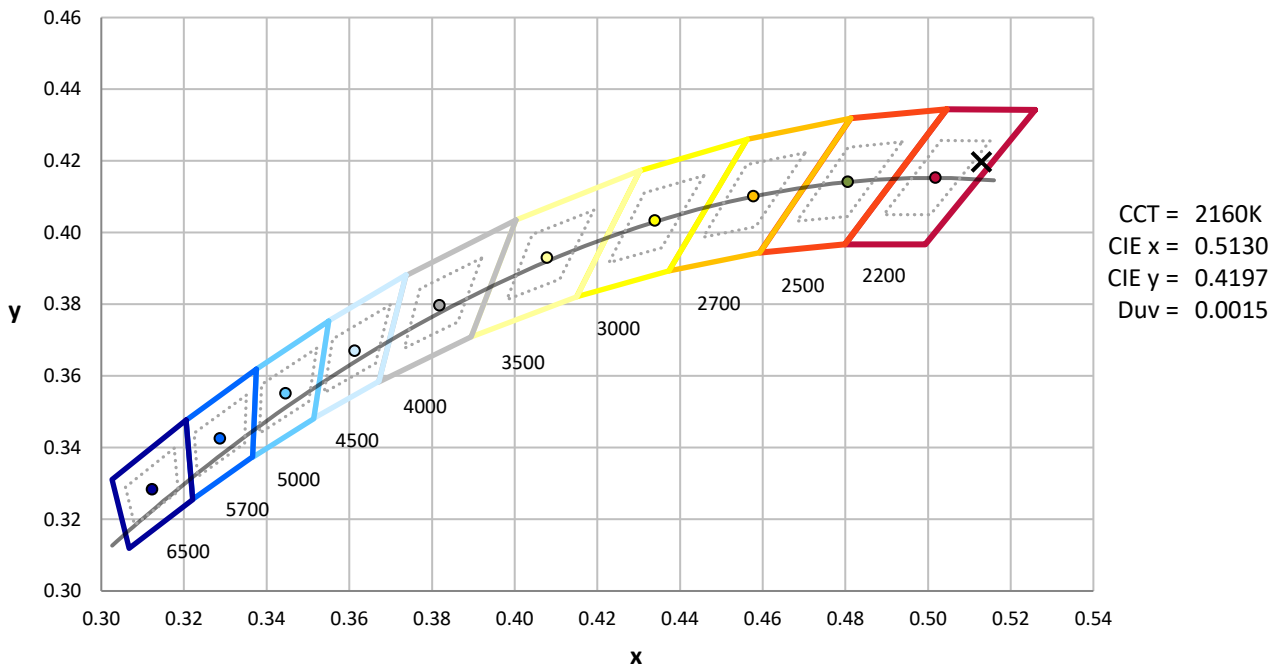
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-2

CIE 1931 Chromaticity Diagram



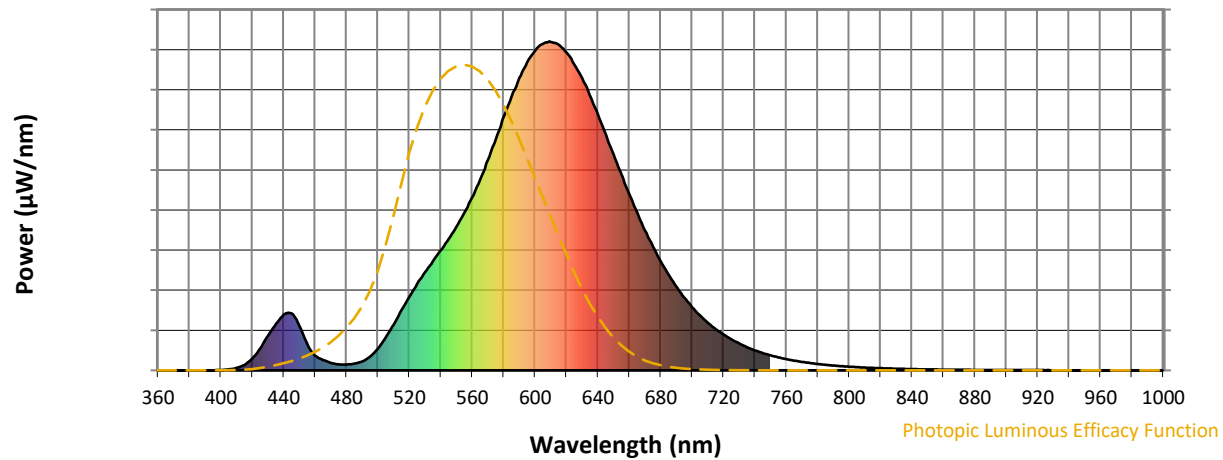
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

Photopic Flux vs. Wavelength

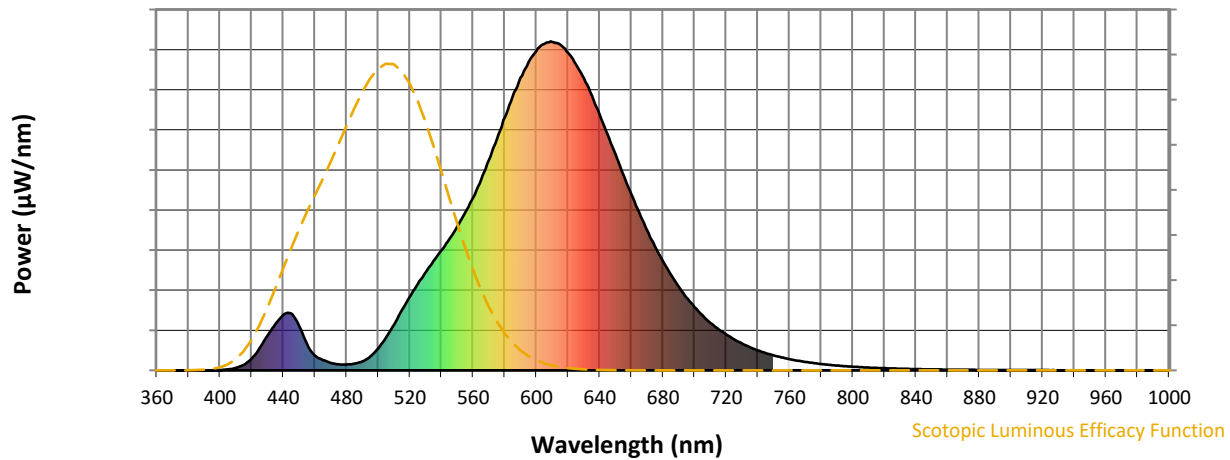


Photopic Lumens: NR

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



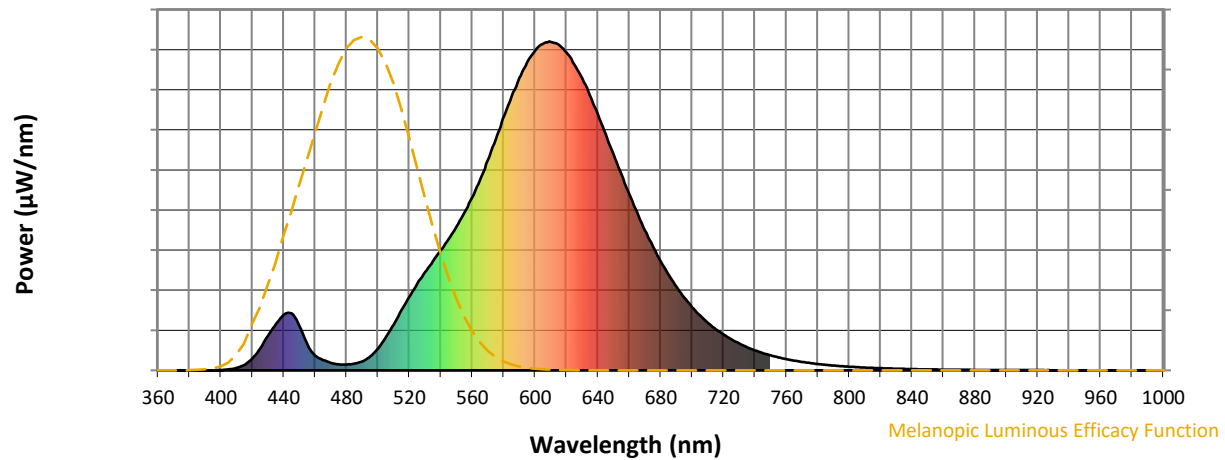
Scotopic Lumens: NR

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

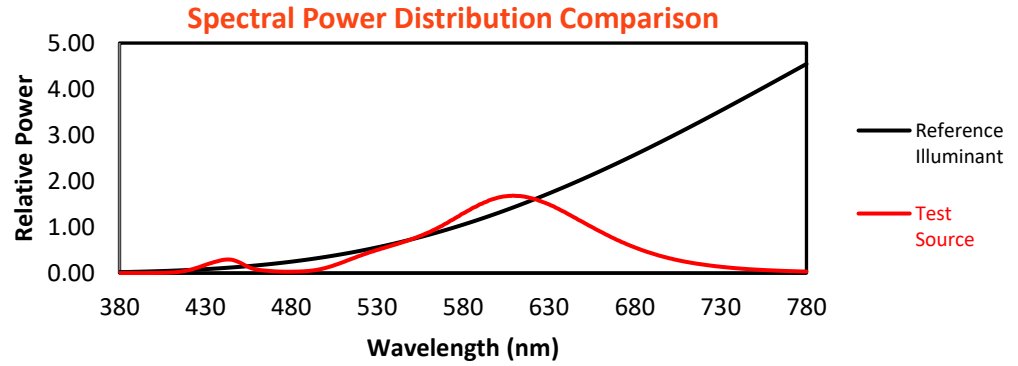
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27	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			

REPORT NUMBER: SP1-2407-184-2

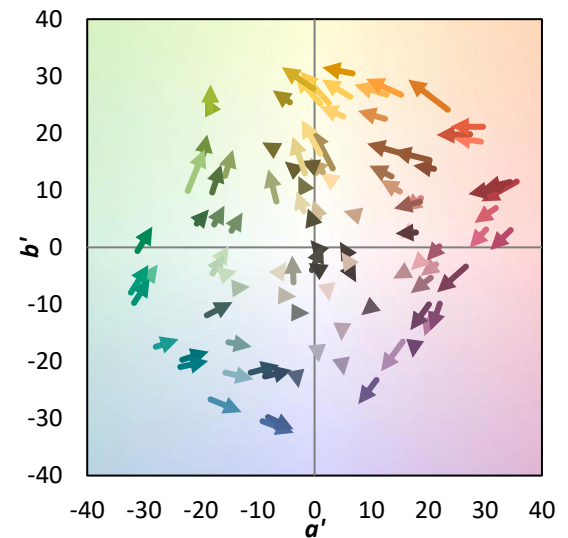
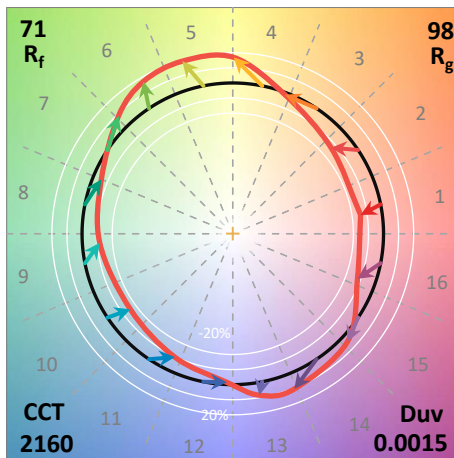
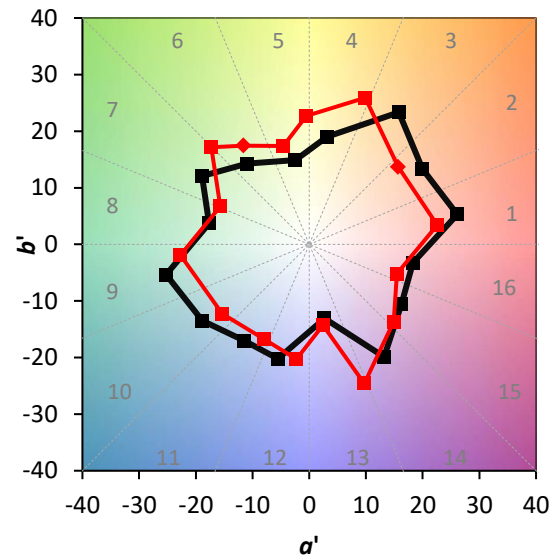
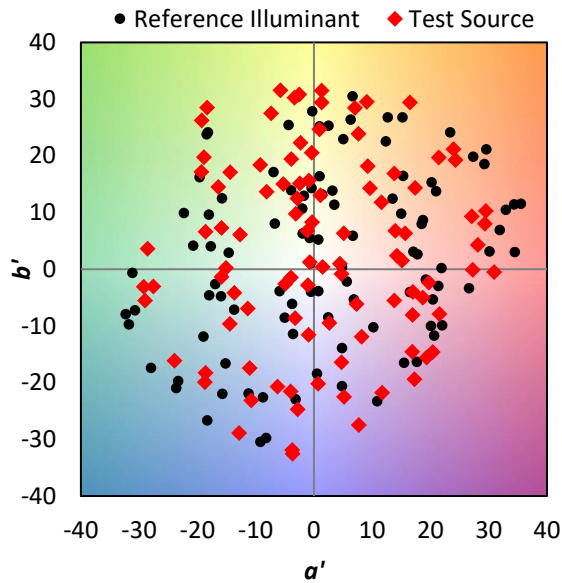
TM-30-18

Summary

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

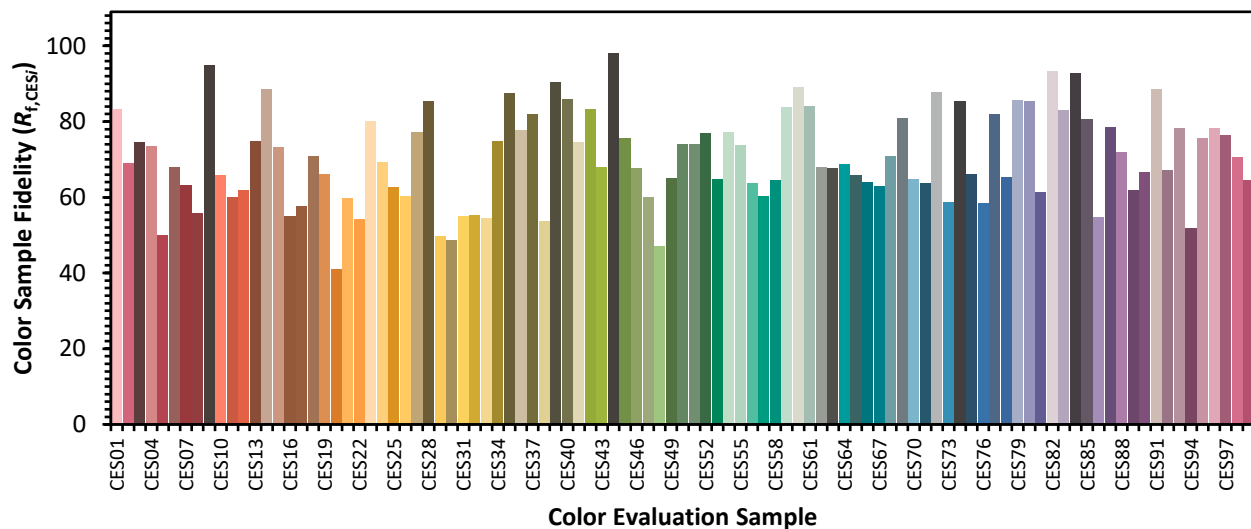


Color Vector Graphics

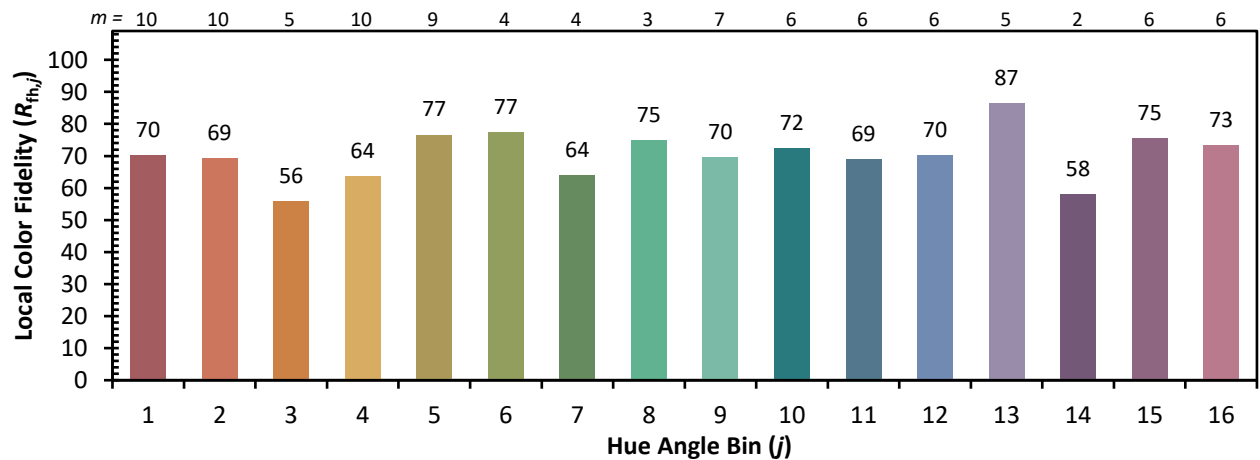
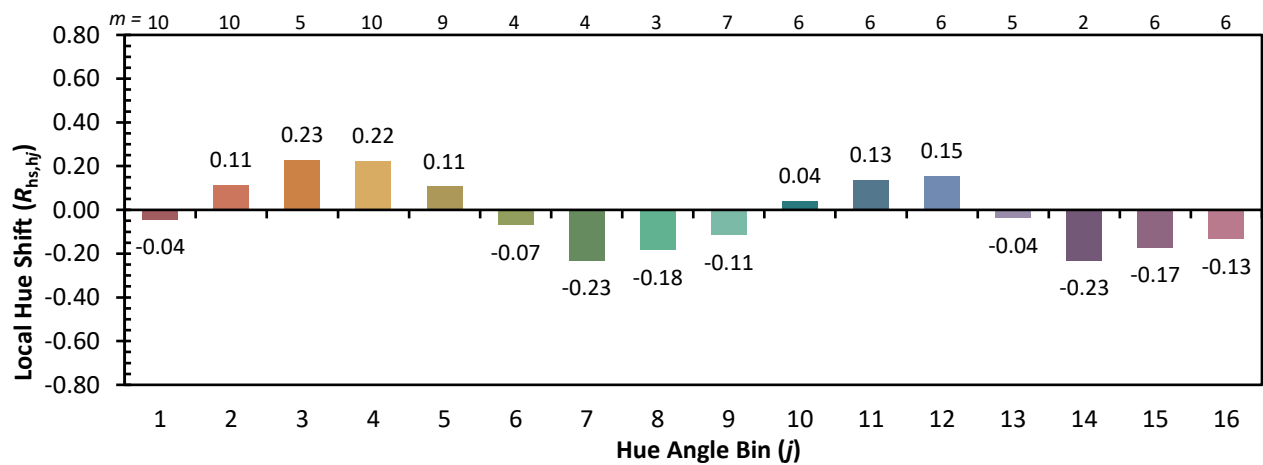
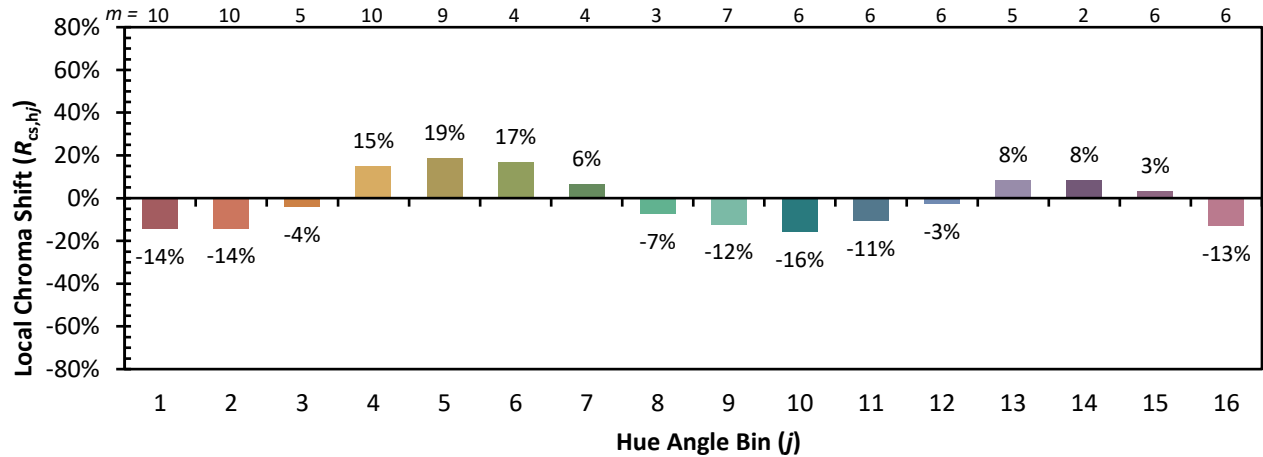


Individual Sample Fidelity Index ($R_{f,i}$)

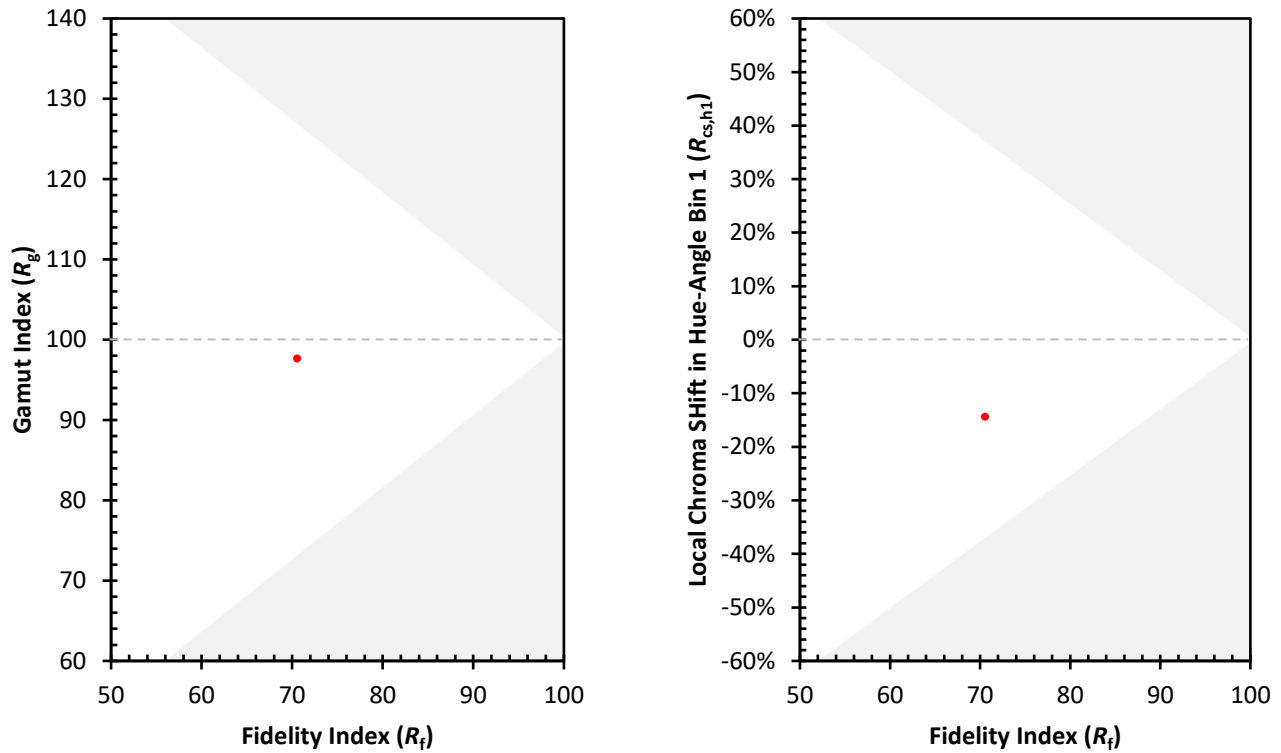
CES01 = 87	CES26 = 60	CES51 = 74	CES76 = 58
CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82 = 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)