

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: P1057667

Luminaire Tested: **GAP-SA2B-730-U-RBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1057667
Test Lab: INNOVATION CENTER(G1)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-SA2B-730-U-RBC
Description: GALLEON PEDESTRAIAN COMPANION 800mA 2xLight Square PACKAGE 70CRI
3000K FIXTURE w/ RIGHT CORNER BACKLIGHT CONTROL
Light Source: (28) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7093.1 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 0.67' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 72.2
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



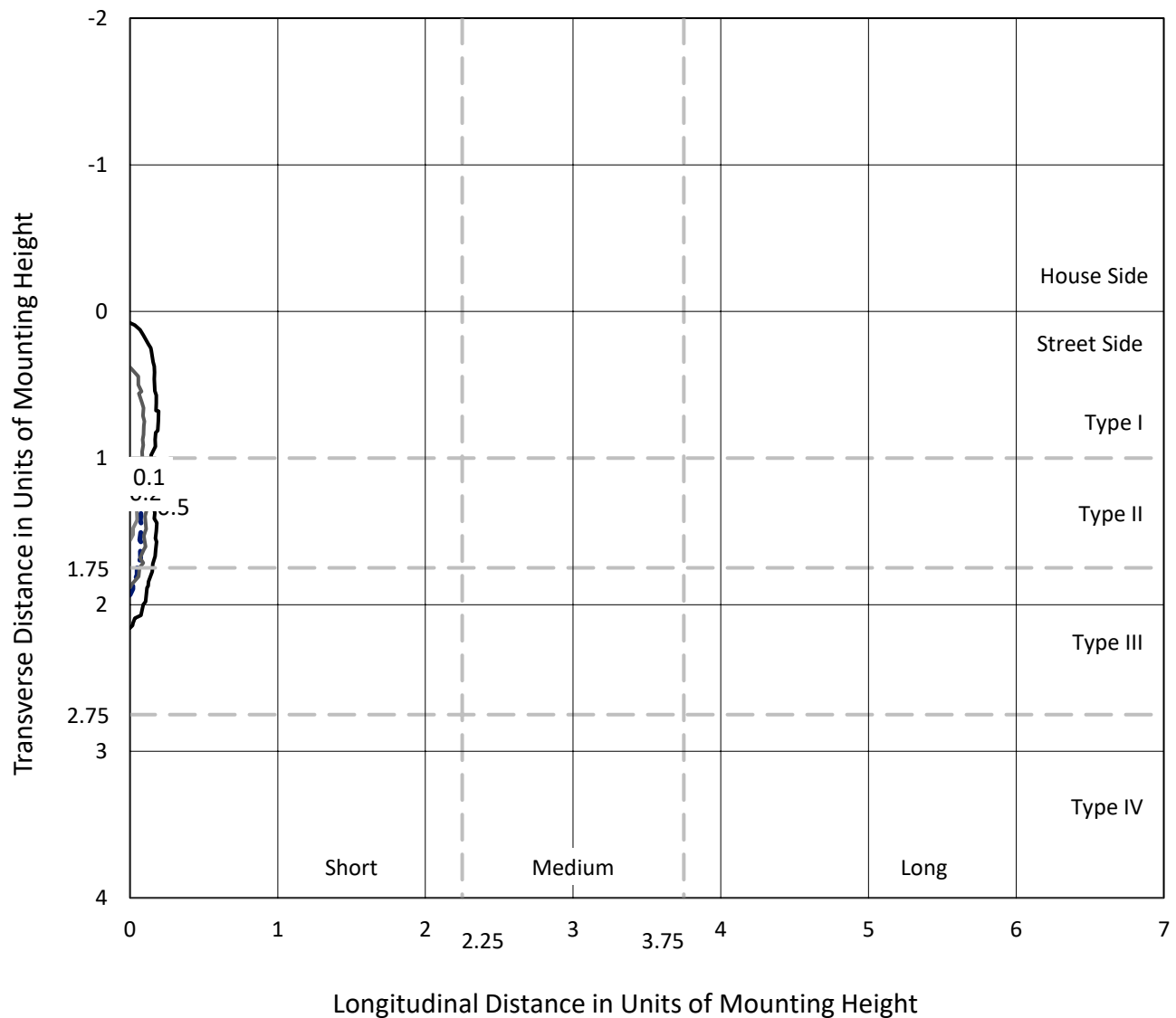
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

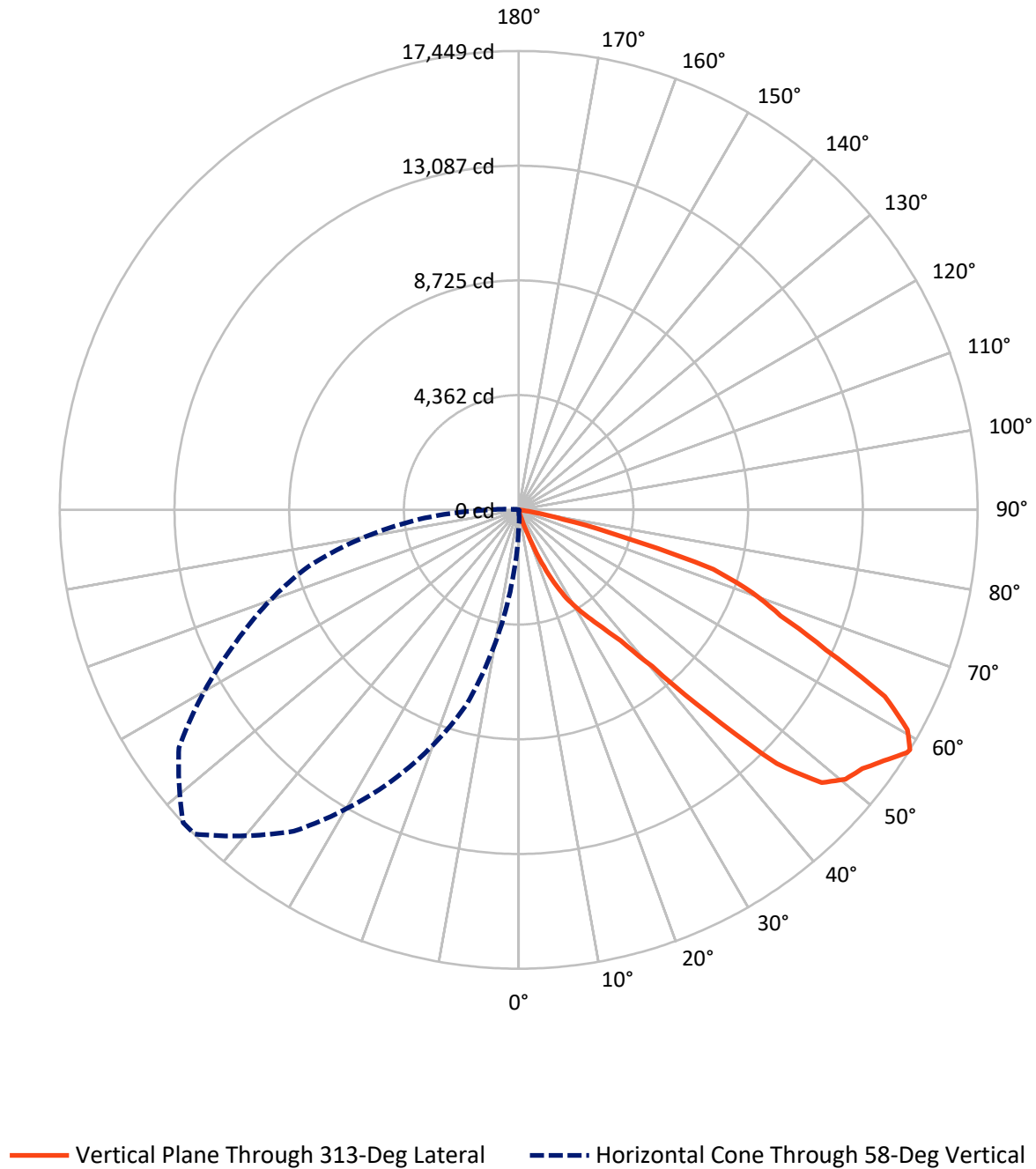


Based on 15 foot mounting height. Maximum calculated value = 0.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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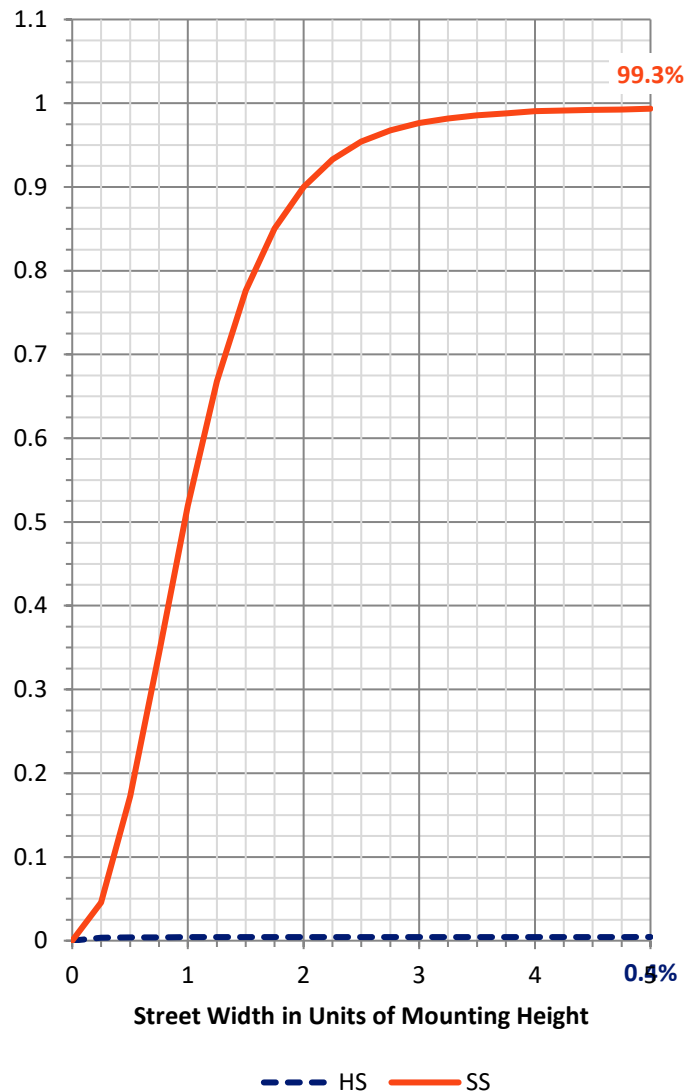
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	31.7	0.0	31.7
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	7061.4	0.0	7061.4
	% Fixture	99.6	0.0	99.6
Total	Lumens	7093.1	0.0	7093.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.0
10°-20°	12.3	0.2
20°-30°	179.1	2.5
30°-40°	515.0	7.3
40°-50°	1466.9	20.7
50°-60°	2307.4	32.5
60°-70°	1967.7	27.7
70°-80°	627.7	8.8
80°-90°	16.0	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°	7093.1	100.0
0°-180°	7093.1	100.0



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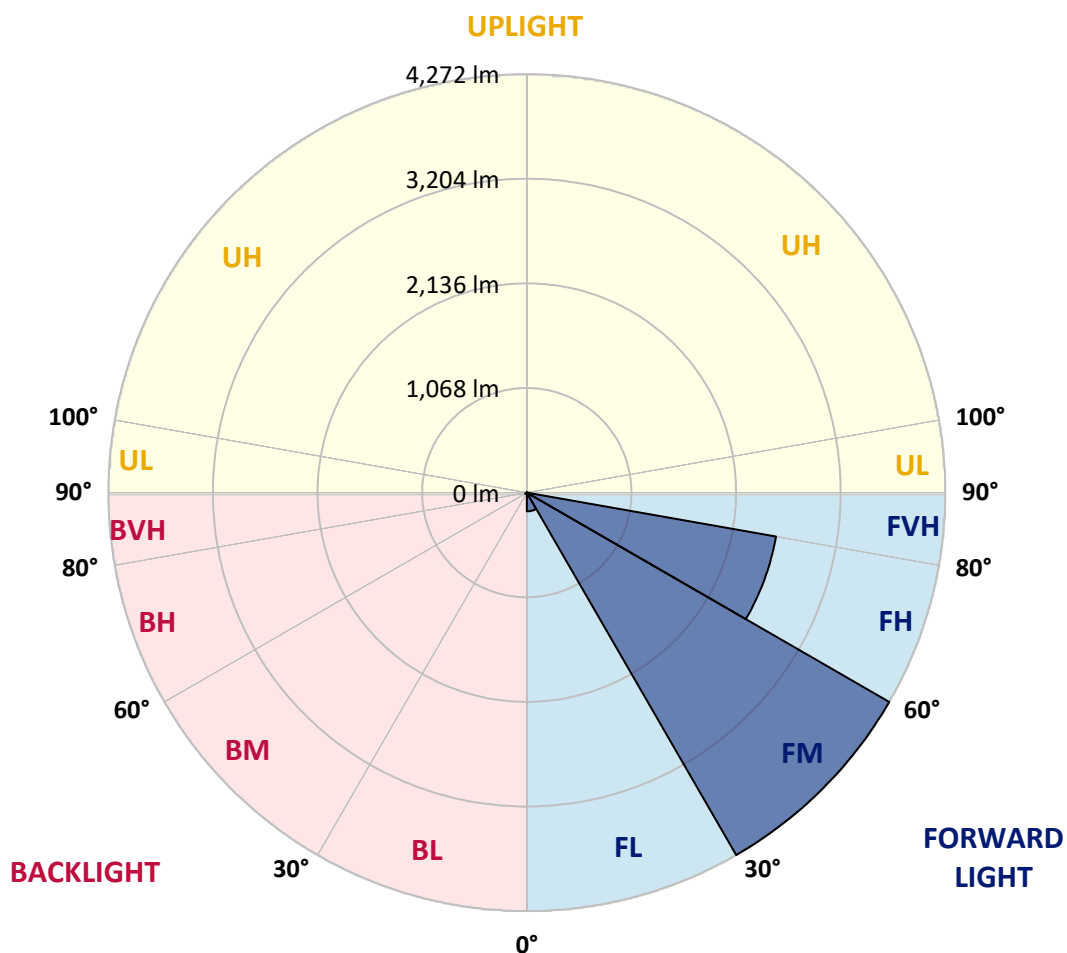
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	191.2	2.7			
FM	(30°-60°)	4272.3	60.2			
FH	(60°-80°)	2582.8	36.4			G2/5000
FVH	(80°-90°)	15.1	0.2			G1/100
BL	(0°-30°)	1.3	0.0	B0/110		
BM	(30°-60°)	17.0	0.2	B0/220		
BH	(60°-80°)	12.6	0.2	B0/110		G0/110
BVH	(80°-90°)	0.9	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°	45°	47°	55°	65°	75°	85°
0°	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
2.5°	25.6	27.0	28.4	27.0	24.1	18.5	18.5	14.2	9.9	5.7	4.3
5°	28.4	28.4	28.4	27.0	24.1	18.5	17.0	12.8	8.5	5.7	2.8
7.5°	31.2	31.2	29.8	27.0	22.7	18.5	17.0	12.8	8.5	4.3	0.0
10°	34.1	34.1	31.2	28.4	22.7	17.0	15.6	11.4	7.1	2.8	0.0
12.5°	38.3	36.9	32.6	28.4	22.7	15.6	15.6	11.4	5.7	1.4	0.0
15°	44.0	39.7	34.1	28.4	21.3	15.6	14.2	9.9	4.3	0.0	0.0
17.5°	48.3	44.0	35.5	27.0	19.9	14.2	12.8	8.5	4.3	0.0	0.0
20°	52.5	45.4	35.5	27.0	19.9	12.8	11.4	7.1	1.4	0.0	0.0
22.5°	59.6	48.3	35.5	27.0	18.5	11.4	9.9	5.7	0.0	0.0	0.0
25°	73.8	51.1	35.5	25.6	17.0	9.9	8.5	2.8	0.0	0.0	0.0
27.5°	90.9	55.4	35.5	24.1	15.6	8.5	7.1	1.4	0.0	0.0	0.0
30°	109.3	59.6	35.5	24.1	14.2	7.1	5.7	0.0	0.0	0.0	0.0
32.5°	129.2	65.3	35.5	22.7	12.8	5.7	4.3	0.0	0.0	0.0	0.0
35°	166.1	73.8	35.5	22.7	11.4	4.3	2.8	0.0	0.0	0.0	0.0
37.5°	183.1	85.2	35.5	21.3	11.4	2.8	1.4	0.0	0.0	0.0	0.0
40°	190.2	82.3	34.1	21.3	9.9	1.4	0.0	0.0	0.0	0.0	0.0
42.5°	205.8	76.7	35.5	19.9	9.9	1.4	0.0	0.0	0.0	0.0	0.0
45°	251.3	76.7	38.3	19.9	8.5	2.8	0.0	0.0	0.0	0.0	0.0
47.5°	435.8	79.5	36.9	19.9	8.5	2.8	0.0	0.0	0.0	0.0	0.0
50°	716.9	93.7	35.5	21.3	9.9	1.4	0.0	0.0	0.0	0.0	0.0
52.5°	831.9	113.6	35.5	22.7	12.8	0.0	0.0	0.0	0.0	0.0	0.0
55°	797.8	139.1	35.5	24.1	15.6	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	725.4	132.0	38.3	28.4	19.9	0.0	0.0	0.0	0.0	0.0	0.0
58°	698.4	132.0	38.3	28.4	19.9	0.0	0.0	0.0	0.0	0.0	0.0
60°	547.9	134.9	44.0	31.2	21.3	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	407.4	137.7	49.7	35.5	21.3	1.4	0.0	0.0	0.0	0.0	0.0
65°	302.4	143.4	52.5	41.2	19.9	2.8	0.0	0.0	0.0	0.0	0.0
67.5°	241.3	147.6	56.8	45.4	22.7	5.7	1.4	0.0	0.0	0.0	0.0
70°	207.3	142.0	61.0	46.8	21.3	8.5	4.3	0.0	0.0	0.0	0.0
72.5°	184.5	133.4	69.6	45.4	22.7	8.5	4.3	0.0	0.0	0.0	0.0
75°	166.1	122.1	79.5	44.0	22.7	8.5	5.7	0.0	0.0	0.0	0.0
77.5°	124.9	106.5	78.1	42.6	21.3	8.5	5.7	0.0	0.0	0.0	0.0
80°	62.5	71.0	68.1	38.3	17.0	7.1	5.7	1.4	0.0	0.0	0.0
82.5°	25.6	27.0	34.1	28.4	14.2	5.7	5.7	1.4	0.0	0.0	0.0
85°	2.8	5.7	9.9	11.4	9.9	5.7	5.7	1.4	0.0	0.0	0.0
87.5°	0.0	1.4	5.7	8.5	7.1	4.3	2.8	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°	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
2.5°	2.8	2.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
5°	1.4	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°	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
2.5°	1.4	2.8	2.8	2.8	4.3	4.3	5.7	7.1	7.1	7.1	8.5
5°	0.0	0.0	1.4	1.4	2.8	4.3	5.7	8.5	9.9	9.9	11.4
7.5°	0.0	0.0	0.0	1.4	2.8	4.3	5.7	8.5	11.4	12.8	14.2
10°	0.0	0.0	0.0	0.0	1.4	2.8	5.7	9.9	14.2	17.0	19.9
12.5°	0.0	0.0	0.0	0.0	0.0	1.4	5.7	11.4	17.0	21.3	24.1
15°	0.0	0.0	0.0	0.0	0.0	1.4	5.7	11.4	21.3	25.6	31.2
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.7	12.8	24.1	31.2	42.6
20°	0.0	0.0	0.0	0.0	0.0	0.0	4.3	12.8	27.0	38.3	63.9
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.3	12.8	29.8	49.7	117.8
25°	0.0	0.0	0.0	0.0	0.0	0.0	2.8	12.8	34.1	73.8	195.9
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.8	14.2	41.2	103.6	286.7
30°	0.0	0.0	0.0	0.0	0.0	0.0	2.8	14.2	51.1	140.5	400.3
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	14.2	59.6	177.4	545.1
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.8	71.0	235.6	684.2
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.8	88.0	259.8	802.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.4	83.8	282.5	936.9
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.8	76.7	315.1	1148.4
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.8	76.7	417.3	1616.9
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.4	93.7	650.2	2471.4
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	120.7	997.9	3519.1
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	146.2	1227.9	4126.6
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	176.0	1229.3	4106.8
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	195.9	1100.2	3706.5
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	194.5	1064.7	3595.7
60°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	14.2	170.3	924.1	3138.6
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.7	22.7	149.1	662.9	2602.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	11.4	25.6	136.3	481.2	1953.3
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	14.2	29.8	130.6	340.7	1358.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	17.0	34.1	120.7	244.2	894.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	17.0	42.6	113.6	191.6	539.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	17.0	53.9	99.4	156.2	289.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	17.0	58.2	82.3	113.6	176.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	15.6	52.5	59.6	49.7	59.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	8.5	31.2	12.8	12.8	19.9
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°	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
2.5°	9.9	9.9	9.9	9.9	11.4	11.4	15.6	19.9	24.1	25.6
5°	12.8	14.2	15.6	15.6	15.6	17.0	19.9	22.7	27.0	28.4
7.5°	18.5	19.9	22.7	22.7	22.7	24.1	25.6	28.4	31.2	31.2
10°	24.1	28.4	29.8	31.2	32.6	32.6	32.6	34.1	35.5	34.1
12.5°	32.6	38.3	45.4	46.8	46.8	46.8	45.4	42.6	39.7	38.3
15°	45.4	62.5	85.2	93.7	89.4	79.5	69.6	53.9	46.8	44.0
17.5°	83.8	170.3	309.5	342.1	335.0	288.2	168.9	82.3	55.4	48.3
20°	225.7	550.8	908.5	995.1	1040.5	861.7	498.3	191.6	68.1	52.5
22.5°	486.9	1144.2	1773.0	1997.3	2011.5	1618.3	969.6	389.0	97.9	59.6
25°	783.6	1829.8	2687.2	2904.4	2908.7	2494.2	1550.2	630.3	149.1	73.8
27.5°	1200.9	2565.1	3524.7	3705.0	3702.2	3282.0	2240.1	962.5	208.7	90.9
30°	1628.2	3138.6	4077.0	4301.2	4322.5	3820.0	2816.4	1355.7	272.6	109.3
32.5°	2051.3	3563.1	4580.9	4879.0	4860.5	4295.6	3218.1	1677.9	381.9	129.2
35°	2384.8	3925.1	5138.8	5505.0	5519.2	4818.0	3574.4	1990.2	475.5	166.1
37.5°	2670.2	4392.1	5881.2	6304.2	6322.7	5468.1	3947.8	2296.8	556.5	183.1
40°	3022.2	5158.7	7110.5	7828.8	7831.7	6680.4	4619.2	2640.4	665.8	190.2
42.5°	3812.9	6801.1	9512.4	10544.4	10633.9	9195.9	6145.2	3385.6	837.5	205.8
45°	5394.3	8965.9	12575.8	13764.0	13877.5	12326.0	8761.5	5106.1	1215.1	251.3
47.5°	7275.2	10848.2	14355.9	15500.1	15575.3	13806.6	10513.2	7096.3	2068.3	435.8
50°	8432.1	11545.2	15010.3	16102.0	16114.8	14293.5	11062.6	8129.8	2947.0	716.9
52.5°	8791.3	11634.6	15035.9	16356.1	16393.0	14236.7	11137.8	8338.4	3313.2	831.9
55°	8645.1	11582.1	15305.6	16841.6	16881.3	14468.1	11086.7	8109.9	3141.5	797.8
57.5°	8311.5	11786.5	15748.5	17417.9	17417.9	14895.4	11275.5	7726.6	2721.3	725.4
58°	8261.8	11837.6	15772.6	17449.1	17436.4	14922.3	11353.6	7671.3	2629.0	698.4
60°	8193.7	11995.2	15593.8	16987.8	16950.9	14732.1	11495.5	7621.6	2181.9	547.9
62.5°	8094.3	11640.3	14290.6	15630.7	15535.6	13399.2	11088.1	7330.6	1628.2	407.4
65°	7584.7	10330.1	11912.9	12841.3	12811.5	11022.8	9543.6	6566.8	1172.5	302.4
67.5°	6393.7	8087.2	9623.1	10741.8	10748.8	8998.5	7464.0	5248.1	797.8	241.3
70°	4497.1	5965.0	8180.9	9425.8	9482.6	7547.8	5529.2	3497.8	526.7	207.3
72.5°	2685.8	4505.7	6802.5	7747.9	7718.1	6263.1	4102.5	2085.3	320.8	184.5
75°	1301.7	2692.9	3438.2	3987.5	3964.8	3133.0	2186.1	1022.1	234.2	166.1
77.5°	353.5	827.6	1331.5	1731.9	1778.7	1254.9	716.9	274.0	146.2	124.9
80°	119.2	255.5	434.4	590.5	606.1	542.3	269.7	96.5	63.9	62.5
82.5°	45.4	62.5	79.5	71.0	71.0	73.8	58.2	41.2	29.8	25.6
85°	0.0	0.0	1.4	2.8	2.8	4.3	4.3	4.3	2.8	2.8
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

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

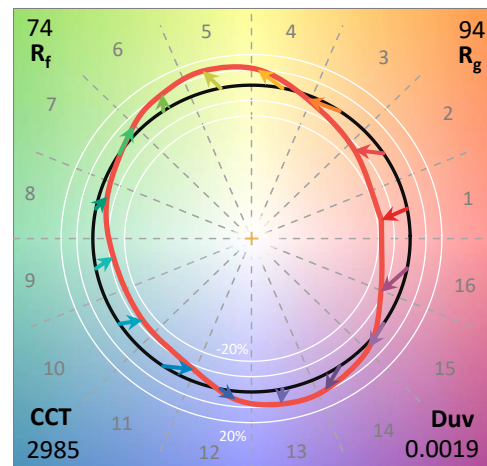
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-4
 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-730-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K):	2985	CRI (Ra):	70.8		
CIE u':	0.2504	R1:	66.3	R9:	-43.2
CIE v':	0.5243	R2:	80.6	R10:	57.6
Duv:	0.0019	R3:	94.5	R11:	64.8
CIE x:	0.4408	R4:	68.2	R12:	53.5
CIE y:	0.4101	R5:	66.5	R13:	68.7
CIE z:	0.1491	R6:	74.7	R14:	97.0
Peak Wavelength (nm):	595	R7:	76.2	R15:	56.4
Dominant Wavelength (nm):	582	R8:	39.6		
Purity:	55.41818				
Rf:	73.8				
Rg:	94.4				



Test Conditions

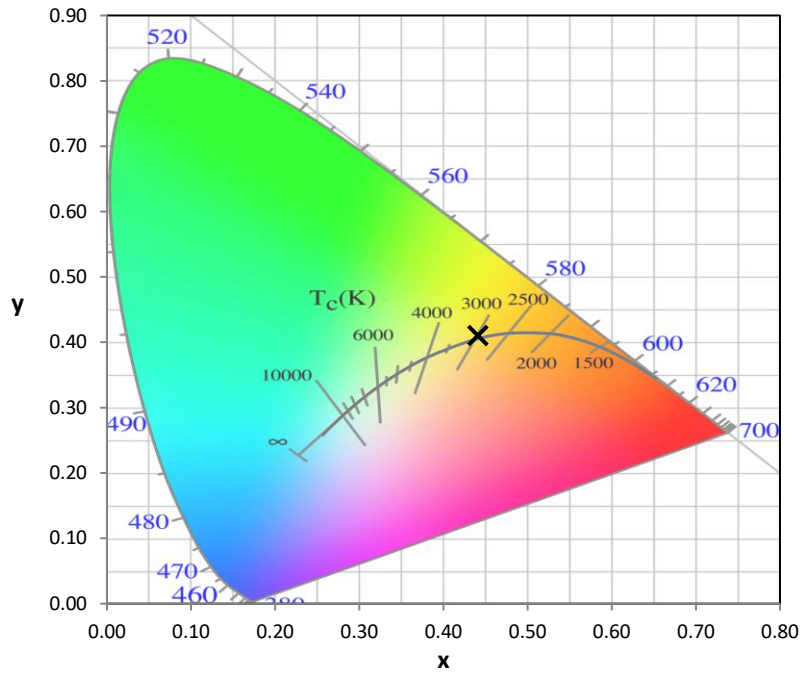
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

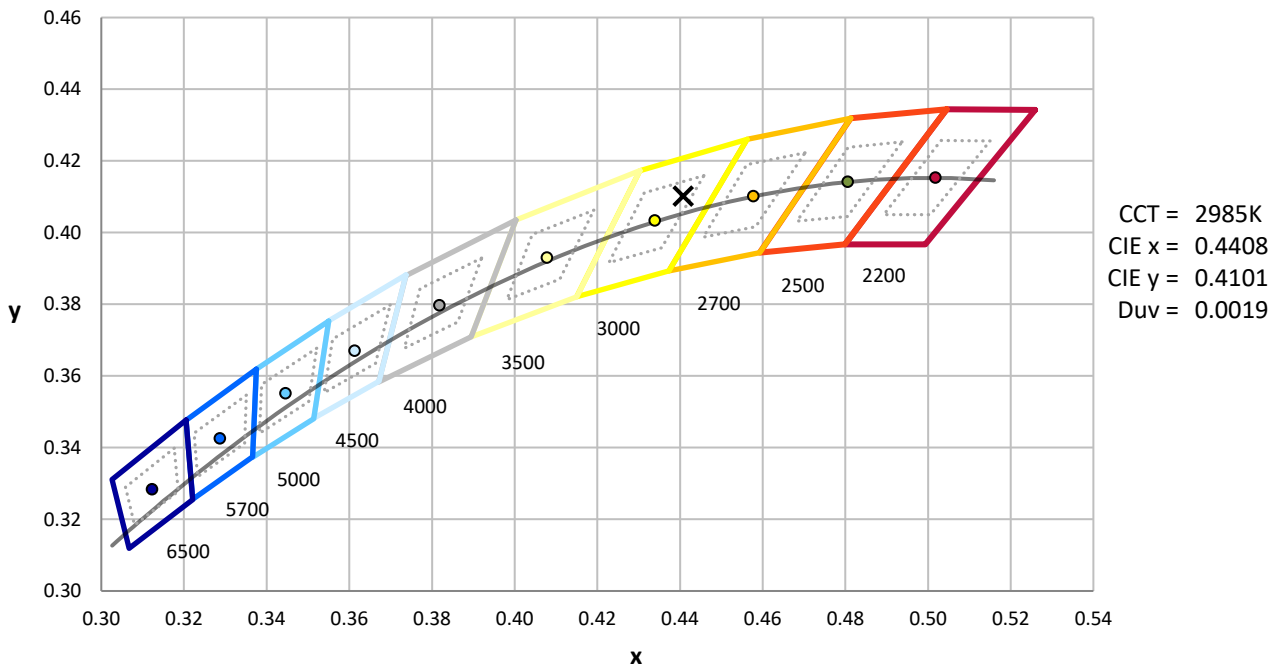
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-4

CIE 1931 Chromaticity Diagram



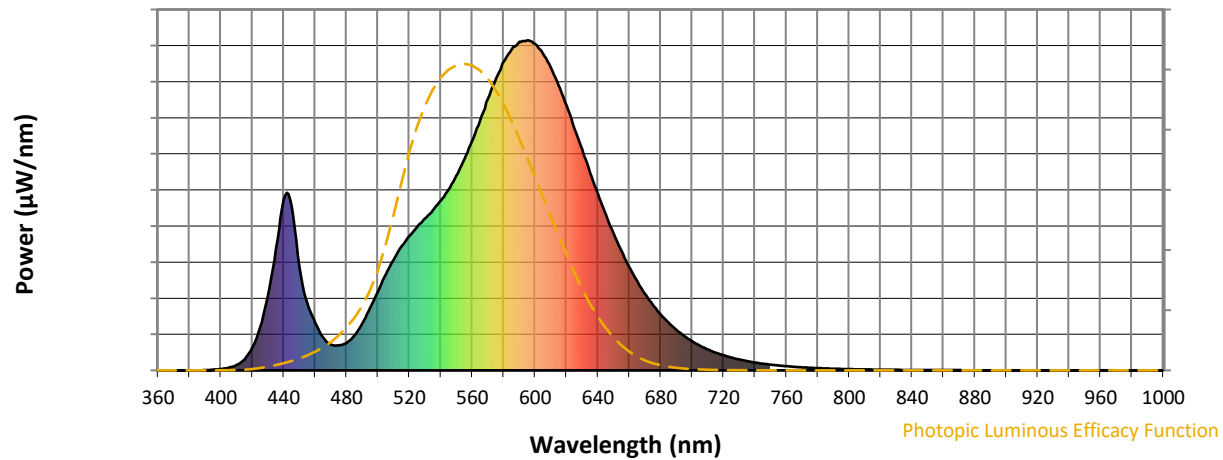
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

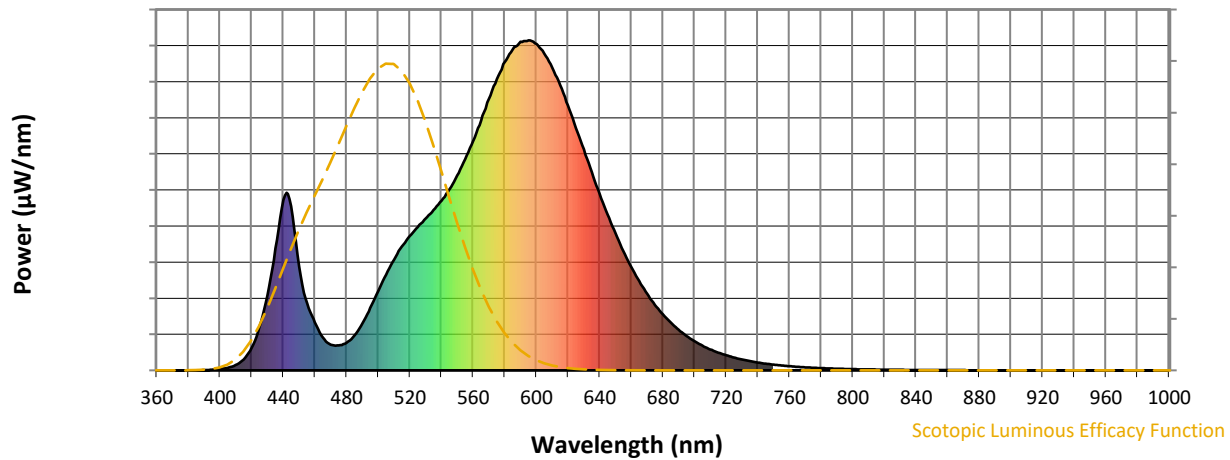


Photopic Lumens: NR

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Scotopic Flux vs. Wavelength



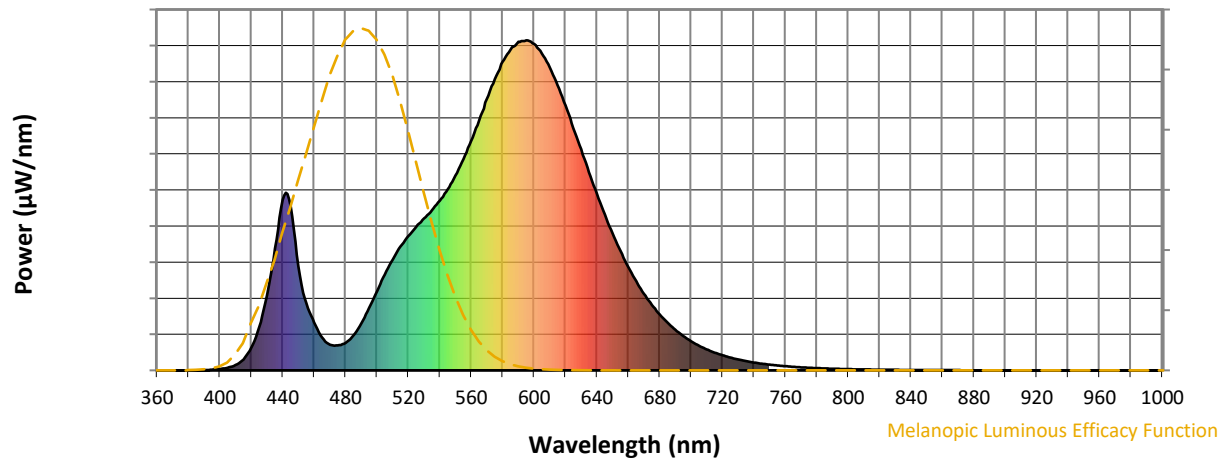
Scotopic Lumens: NR

S/P: 1.19

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.13

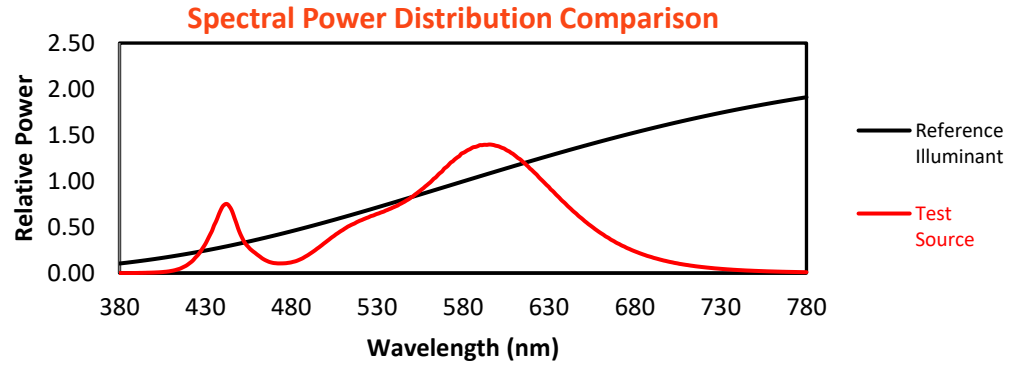
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

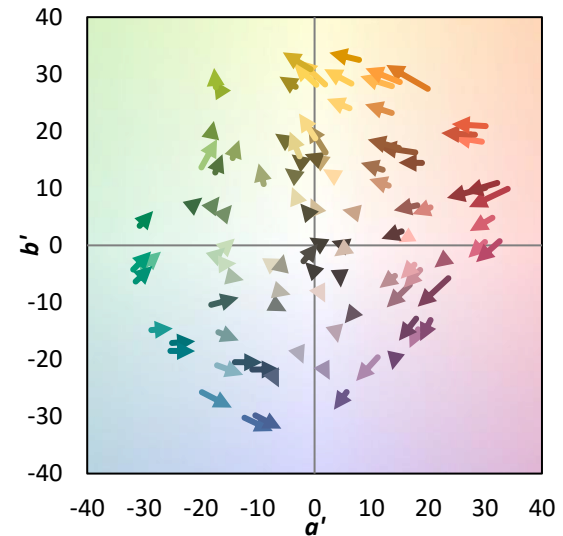
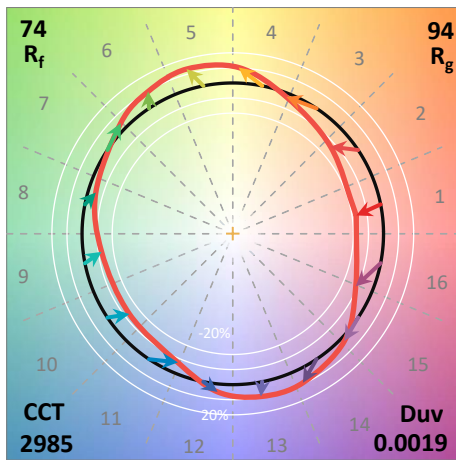
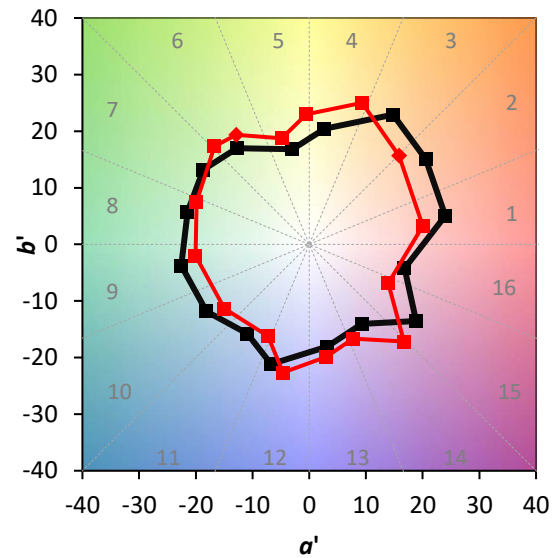
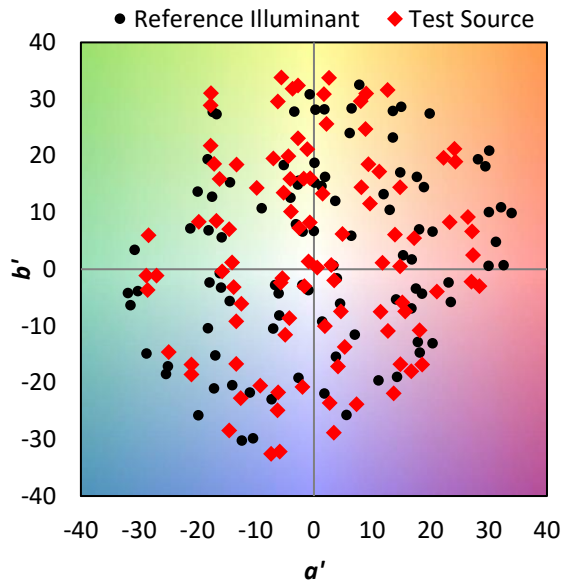
TM-30-18

Summary

$R_f = 73.8$
 $R_g = 94.4$
 $CIE R_a = 70.8$
 $R_g = -43.2$

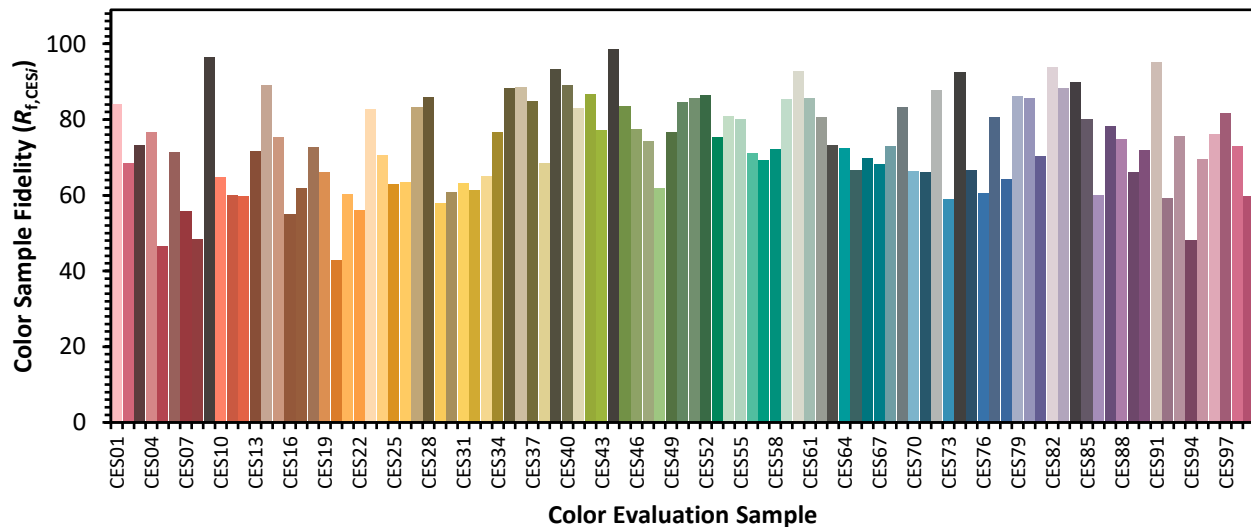


Color Vector Graphics

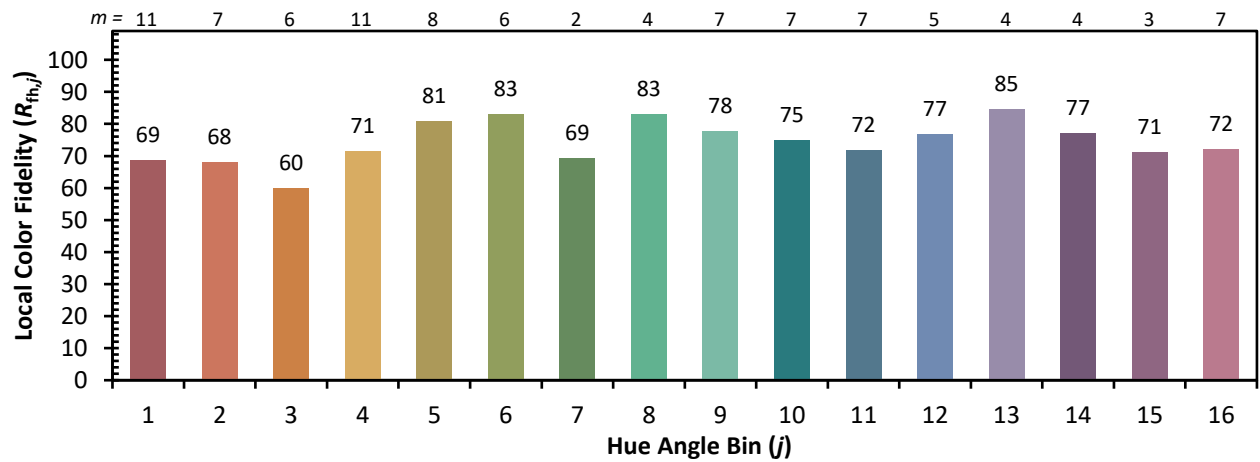
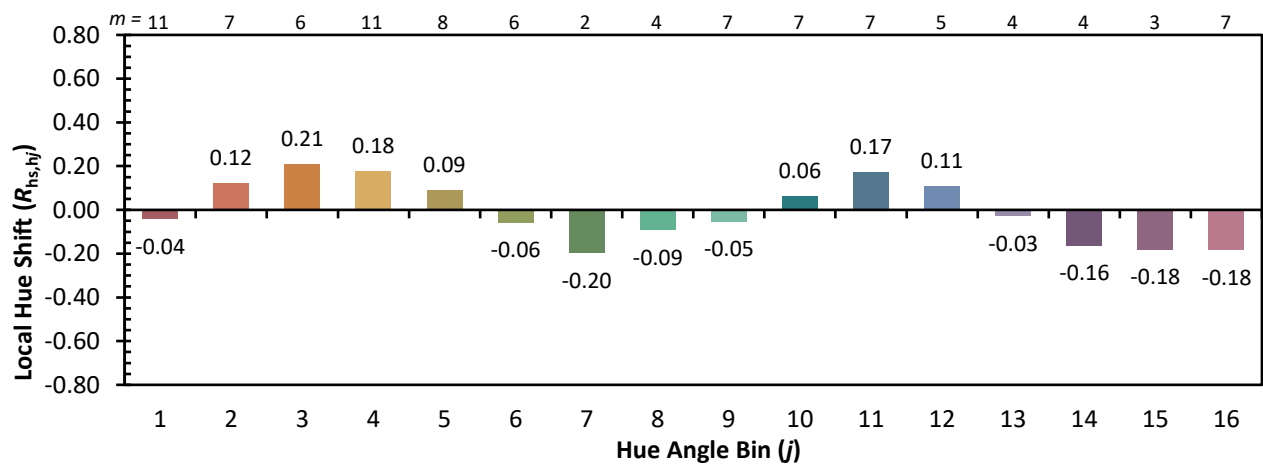
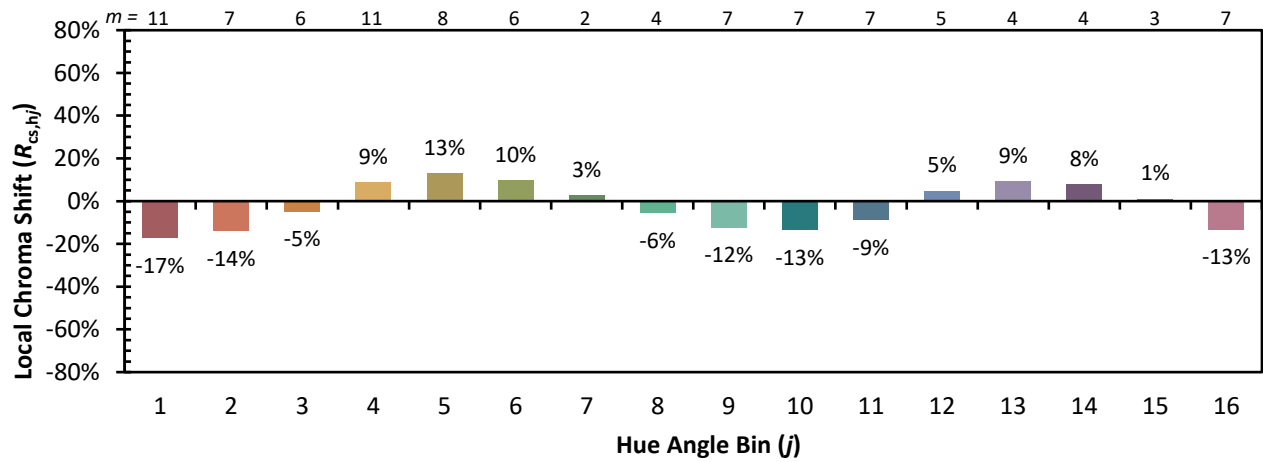


Individual Sample Fidelity Index ($R_{f,i}$)

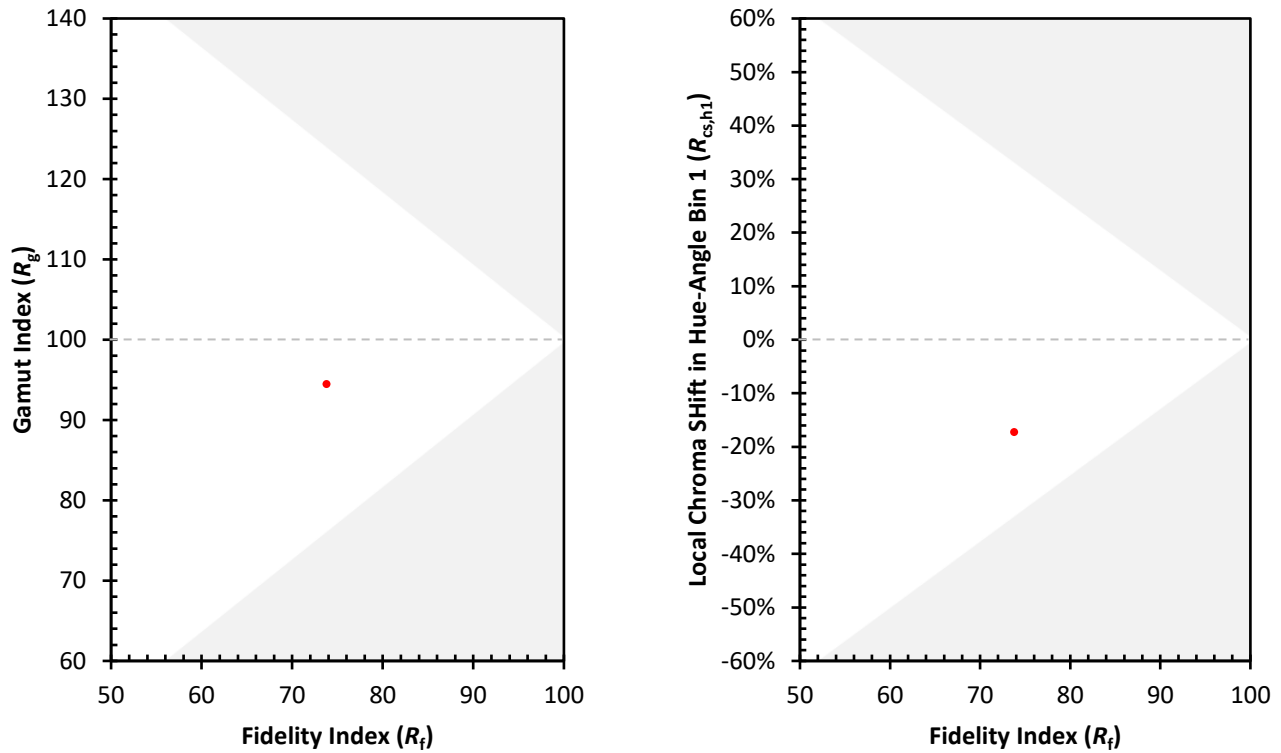
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 94
CES08 = 40	CES33 = 65	CES58 = 72	CES83 = 88
CES09 = 29	CES34 = 77	CES59 = 85	CES84 = 90
CES10 = 76	CES35 = 88	CES60 = 93	CES85 = 80
CES11 = 59	CES36 = 89	CES61 = 86	CES86 = 60
CES12 = 65	CES37 = 85	CES62 = 81	CES87 = 78
CES13 = 43	CES38 = 69	CES63 = 73	CES88 = 75
CES14 = 74	CES39 = 93	CES64 = 72	CES89 = 66
CES15 = 71	CES40 = 89	CES65 = 67	CES90 = 72
CES16 = 47	CES41 = 83	CES66 = 70	CES91 = 95
CES17 = 50	CES42 = 87	CES67 = 68	CES92 = 59
CES18 = 56	CES43 = 77	CES68 = 73	CES93 = 76
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 66	CES45 = 83	CES70 = 66	CES95 = 70
CES21 = 87	CES46 = 77	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 74	CES72 = 88	CES97 = 82
CES23 = 92	CES48 = 62	CES73 = 59	CES98 = 73
CES24 = 91	CES49 = 77	CES74 = 93	CES99 = 60
CES25 = 73	CES50 = 85	CES75 = 67	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)