

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: McGRAW-EDISON

Report Number: P991227

Luminaire Tested: **GPC-SA1A-722-U-RBC**

Issue Date: 07/03/2025

Test Information

Test Method: LM-79-08
Report Number: P991227
Test Lab: INNOVATION CENTER(G1)
Issue Date: 07/03/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-SA1A-722-U-RBC
Description: GALLEON PEDESTRAIAN COMPANION 615mA 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: 2378 lumens
Efficiency: N/A
Efficacy: 80.9 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): 29.4
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: 24 FT

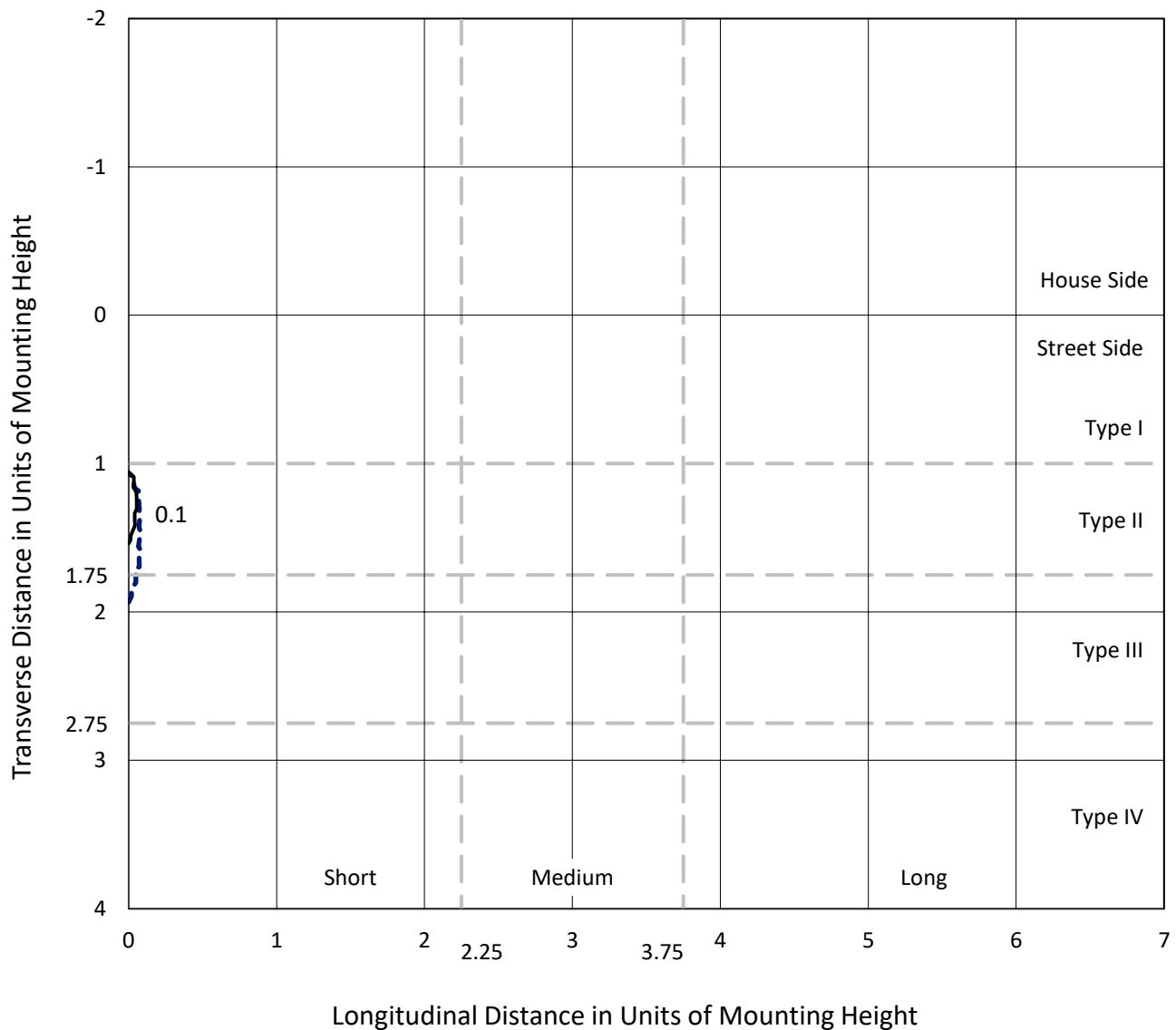


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Iso-Footcandle Lines of Horizontal Illumination

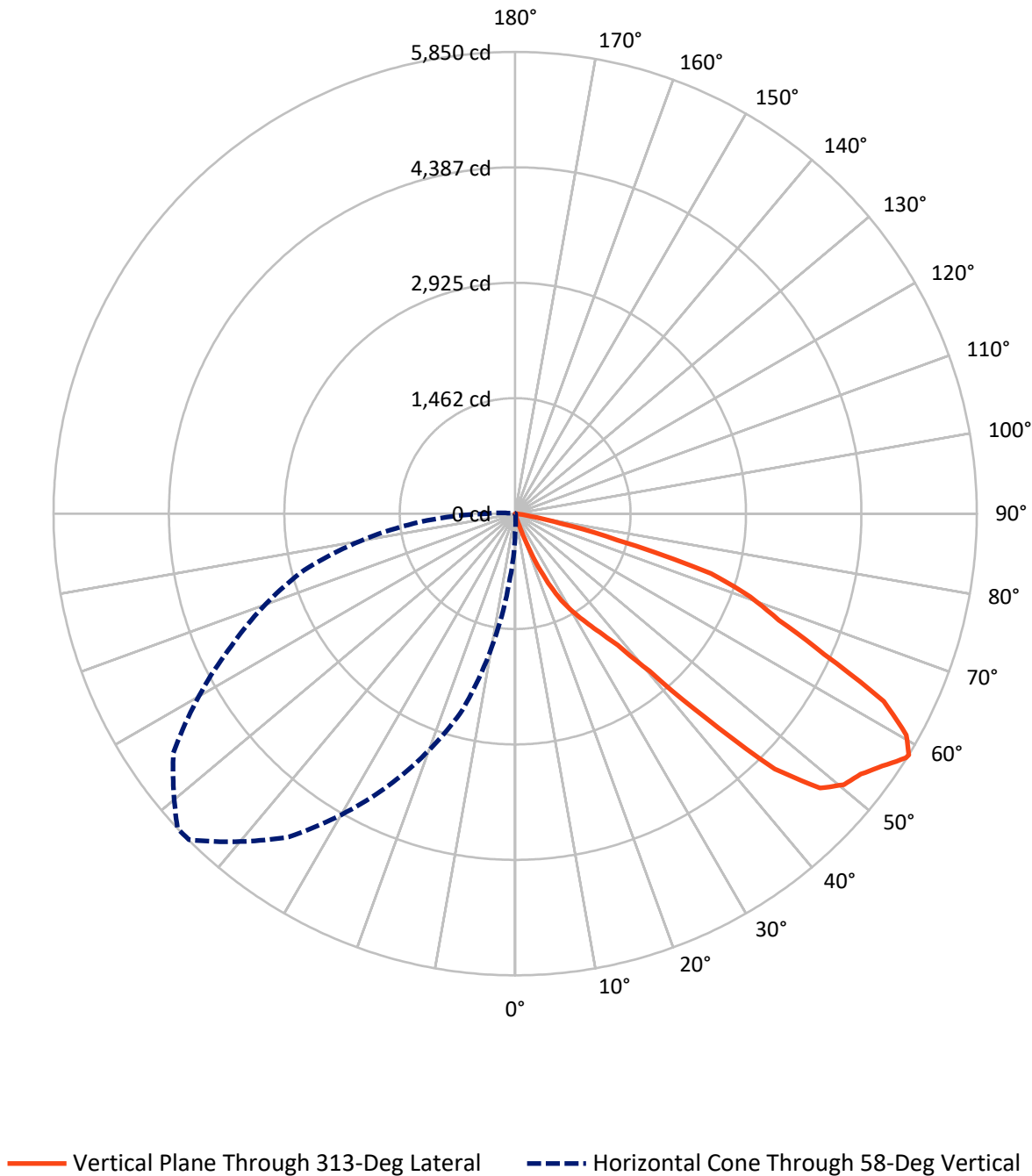
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 0.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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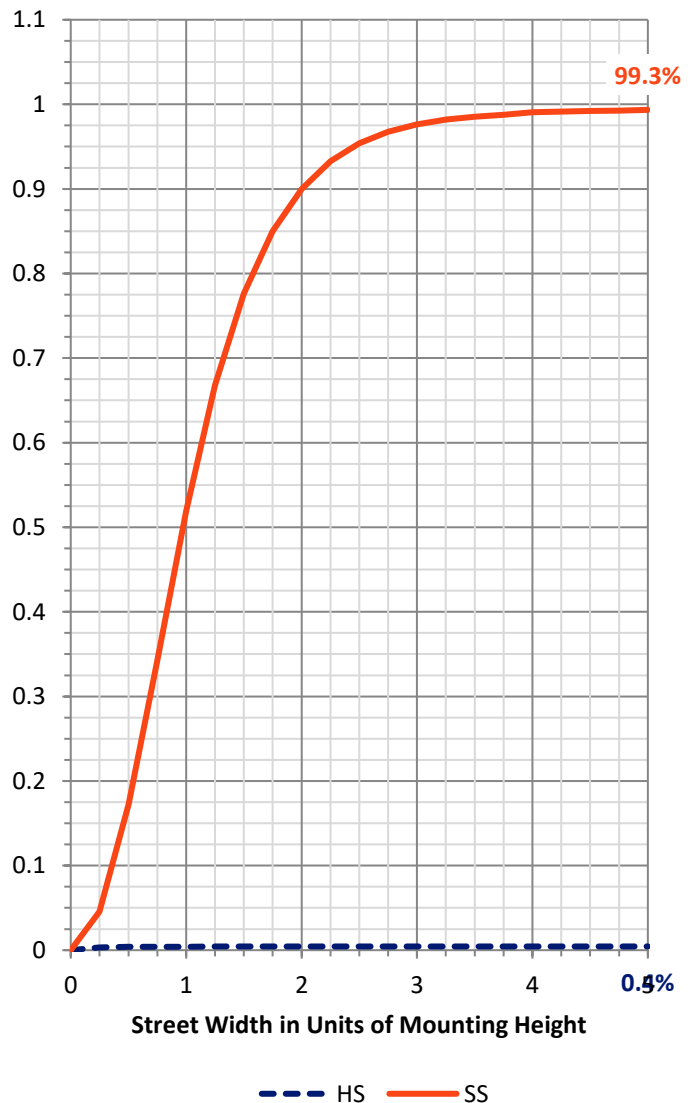
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10.6	0.0	10.6
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	2367.4	0.0	2367.4
	% Fixture	99.6	0.0	99.6
Total	Lumens	2378.0	0.0	2378.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.3	0.0
10°-20°	4.1	0.2
20°-30°	60.1	2.5
30°-40°	172.6	7.3
40°-50°	491.8	20.7
50°-60°	773.6	32.5
60°-70°	659.7	27.7
70°-80°	210.4	8.8
80°-90°	5.4	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°	2378.0	100.0
0°-180°	2378.0	100.0



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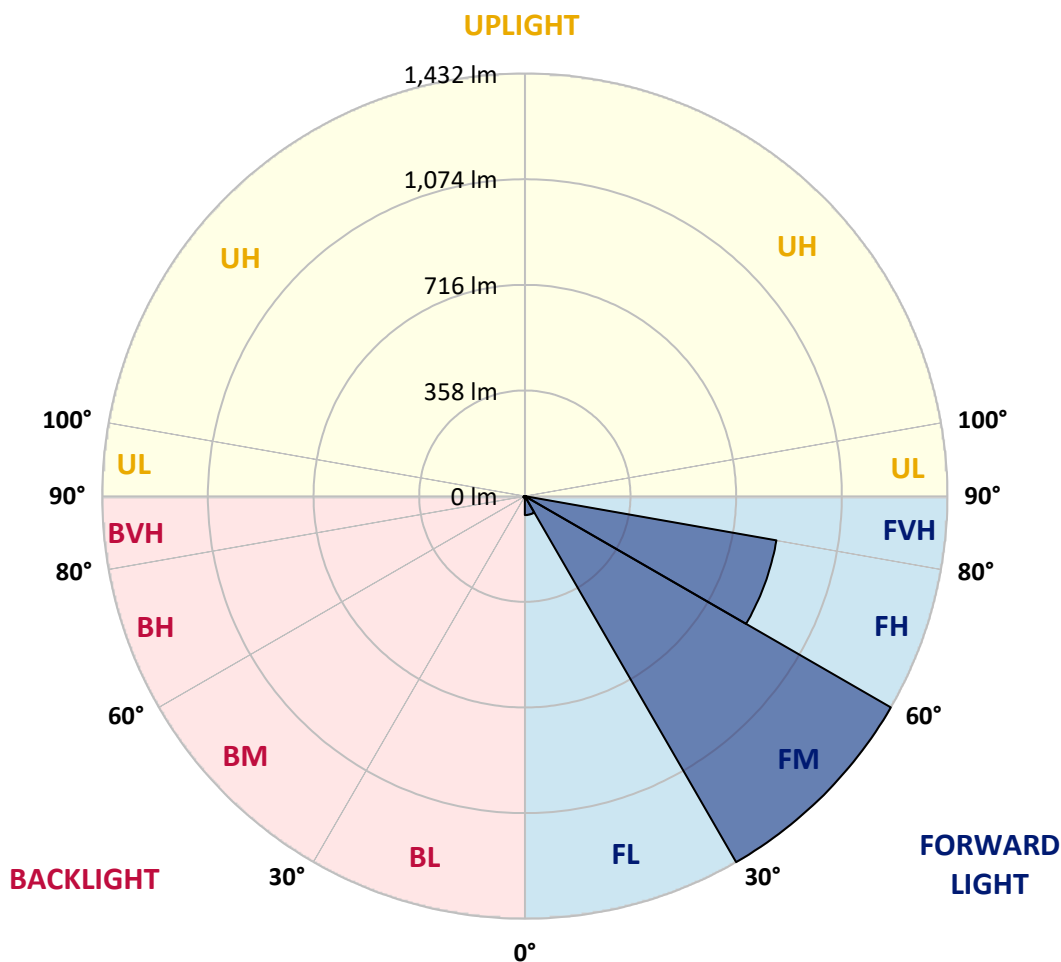
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	64.1	2.7			
FM	(30°-60°)	1432.3	60.2			
FH	(60°-80°)	865.9	36.4			G1/1800
FVH	(80°-90°)	5.1	0.2			G0/10
BL	(0°-30°)	0.4	0.0	B0/110		
BM	(30°-60°)	5.7	0.2	B0/220		
BH	(60°-80°)	4.2	0.2	B0/110		G0/110
BVH	(80°-90°)	0.3	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
2.5°	8.6	9.0	9.5	9.0	8.1	6.2	6.2	4.8	3.3	1.9	1.4
5°	9.5	9.5	9.5	9.0	8.1	6.2	5.7	4.3	2.9	1.9	1.0
7.5°	10.5	10.5	10.0	9.0	7.6	6.2	5.7	4.3	2.9	1.4	0.0
10°	11.4	11.4	10.5	9.5	7.6	5.7	5.2	3.8	2.4	1.0	0.0
12.5°	12.8	12.4	10.9	9.5	7.6	5.2	5.2	3.8	1.9	0.5	0.0
15°	14.8	13.3	11.4	9.5	7.1	5.2	4.8	3.3	1.4	0.0	0.0
17.5°	16.2	14.8	11.9	9.0	6.7	4.8	4.3	2.9	1.4	0.0	0.0
20°	17.6	15.2	11.9	9.0	6.7	4.3	3.8	2.4	0.5	0.0	0.0
22.5°	20.0	16.2	11.9	9.0	6.2	3.8	3.3	1.9	0.0	0.0	0.0
25°	24.7	17.1	11.9	8.6	5.7	3.3	2.9	1.0	0.0	0.0	0.0
27.5°	30.5	18.6	11.9	8.1	5.2	2.9	2.4	0.5	0.0	0.0	0.0
30°	36.6	20.0	11.9	8.1	4.8	2.4	1.9	0.0	0.0	0.0	0.0
32.5°	43.3	21.9	11.9	7.6	4.3	1.9	1.4	0.0	0.0	0.0	0.0
35°	55.7	24.7	11.9	7.6	3.8	1.4	1.0	0.0	0.0	0.0	0.0
37.5°	61.4	28.6	11.9	7.1	3.8	1.0	0.5	0.0	0.0	0.0	0.0
40°	63.8	27.6	11.4	7.1	3.3	0.5	0.0	0.0	0.0	0.0	0.0
42.5°	69.0	25.7	11.9	6.7	3.3	0.5	0.0	0.0	0.0	0.0	0.0
45°	84.2	25.7	12.8	6.7	2.9	1.0	0.0	0.0	0.0	0.0	0.0
47.5°	146.1	26.7	12.4	6.7	2.9	1.0	0.0	0.0	0.0	0.0	0.0
50°	240.3	31.4	11.9	7.1	3.3	0.5	0.0	0.0	0.0	0.0	0.0
52.5°	278.9	38.1	11.9	7.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0
55°	267.5	46.6	11.9	8.1	5.2	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	243.2	44.3	12.8	9.5	6.7	0.0	0.0	0.0	0.0	0.0	0.0
58°	234.1	44.3	12.8	9.5	6.7	0.0	0.0	0.0	0.0	0.0	0.0
60°	183.7	45.2	14.8	10.5	7.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	136.6	46.2	16.7	11.9	7.1	0.5	0.0	0.0	0.0	0.0	0.0
65°	101.4	48.1	17.6	13.8	6.7	1.0	0.0	0.0	0.0	0.0	0.0
67.5°	80.9	49.5	19.0	15.2	7.6	1.9	0.5	0.0	0.0	0.0	0.0
70°	69.5	47.6	20.5	15.7	7.1	2.9	1.4	0.0	0.0	0.0	0.0
72.5°	61.9	44.7	23.3	15.2	7.6	2.9	1.4	0.0	0.0	0.0	0.0
75°	55.7	40.9	26.7	14.8	7.6	2.9	1.9	0.0	0.0	0.0	0.0
77.5°	41.9	35.7	26.2	14.3	7.1	2.9	1.9	0.0	0.0	0.0	0.0
80°	20.9	23.8	22.8	12.8	5.7	2.4	1.9	0.5	0.0	0.0	0.0
82.5°	8.6	9.0	11.4	9.5	4.8	1.9	1.9	0.5	0.0	0.0	0.0
85°	1.0	1.9	3.3	3.8	3.3	1.9	1.9	0.5	0.0	0.0	0.0
87.5°	0.0	0.5	1.9	2.9	2.4	1.4	1.0	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°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
2.5°	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
5°	0.5	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°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
2.5°	0.5	1.0	1.0	1.0	1.4	1.4	1.9	2.4	2.4	2.4	2.9
5°	0.0	0.0	0.5	0.5	1.0	1.4	1.9	2.9	3.3	3.3	3.8
7.5°	0.0	0.0	0.0	0.5	1.0	1.4	1.9	2.9	3.8	4.3	4.8
10°	0.0	0.0	0.0	0.0	0.5	1.0	1.9	3.3	4.8	5.7	6.7
12.5°	0.0	0.0	0.0	0.0	0.0	0.5	1.9	3.8	5.7	7.1	8.1
15°	0.0	0.0	0.0	0.0	0.0	0.5	1.9	3.8	7.1	8.6	10.5
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.9	4.3	8.1	10.5	14.3
20°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.3	9.0	12.8	21.4
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.3	10.0	16.7	39.5
25°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	4.3	11.4	24.7	65.7
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	4.8	13.8	34.7	96.1
30°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	4.8	17.1	47.1	134.2
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	4.8	20.0	59.5	182.7
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	23.8	79.0	229.4
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	29.5	87.1	268.9
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	28.1	94.7	314.1
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	25.7	105.7	385.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	25.7	139.9	542.1
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	31.4	218.0	828.6
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	40.5	334.6	1179.8
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	49.0	411.7	1383.5
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	59.0	412.1	1376.8
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	65.7	368.8	1242.6
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	65.2	356.9	1205.5
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	4.8	57.1	309.8	1052.2
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.9	7.6	50.0	222.2	872.3
65°	0.0	0.0	0.0	0.0	0.0	0.0	3.8	8.6	45.7	161.3	654.9
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.8	10.0	43.8	114.2	455.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	5.7	11.4	40.5	81.9	299.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.7	14.3	38.1	64.2	180.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	5.7	18.1	33.3	52.3	97.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.7	19.5	27.6	38.1	59.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	5.2	17.6	20.0	16.7	20.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	10.5	4.3	4.3	6.7
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°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
2.5°	3.3	3.3	3.3	3.3	3.8	3.8	5.2	6.7	8.1	8.6
5°	4.3	4.8	5.2	5.2	5.2	5.7	6.7	7.6	9.0	9.5
7.5°	6.2	6.7	7.6	7.6	7.6	8.1	8.6	9.5	10.5	10.5
10°	8.1	9.5	10.0	10.5	10.9	10.9	10.9	11.4	11.9	11.4
12.5°	10.9	12.8	15.2	15.7	15.7	15.7	15.2	14.3	13.3	12.8
15°	15.2	20.9	28.6	31.4	30.0	26.7	23.3	18.1	15.7	14.8
17.5°	28.1	57.1	103.7	114.7	112.3	96.6	56.6	27.6	18.6	16.2
20°	75.7	184.7	304.6	333.6	348.8	288.9	167.0	64.2	22.8	17.6
22.5°	163.2	383.6	594.4	669.6	674.4	542.5	325.0	130.4	32.8	20.0
25°	262.7	613.4	900.9	973.7	975.1	836.2	519.7	211.3	50.0	24.7
27.5°	402.6	860.0	1181.7	1242.1	1241.2	1100.3	751.0	322.7	70.0	30.5
30°	545.9	1052.2	1366.8	1442.0	1449.1	1280.7	944.2	454.5	91.4	36.6
32.5°	687.7	1194.5	1535.8	1635.7	1629.5	1440.1	1078.9	562.5	128.0	43.3
35°	799.5	1315.9	1722.8	1845.6	1850.3	1615.2	1198.3	667.2	159.4	55.7
37.5°	895.2	1472.5	1971.7	2113.5	2119.7	1833.2	1323.5	770.0	186.6	61.4
40°	1013.2	1729.5	2383.8	2624.6	2625.6	2239.6	1548.6	885.2	223.2	63.8
42.5°	1278.3	2280.1	3189.1	3535.0	3565.0	3082.9	2060.2	1135.0	280.8	69.0
45°	1808.5	3005.8	4216.1	4614.4	4652.5	4132.3	2937.3	1711.8	407.4	84.2
47.5°	2439.0	3636.9	4812.9	5196.4	5221.7	4628.7	3524.6	2379.1	693.4	146.1
50°	2826.9	3870.6	5032.3	5398.2	5402.5	4791.9	3708.8	2725.5	988.0	240.3
52.5°	2947.3	3900.5	5040.8	5483.4	5495.8	4772.9	3734.0	2795.5	1110.8	278.9
55°	2898.3	3882.9	5131.2	5646.2	5659.5	4850.5	3716.8	2718.9	1053.2	267.5
57.5°	2786.4	3951.5	5279.7	5839.4	5839.4	4993.7	3780.1	2590.4	912.3	243.2
58°	2769.8	3968.6	5287.8	5849.9	5845.6	5002.7	3806.3	2571.8	881.4	234.1
60°	2746.9	4021.4	5227.9	5695.2	5682.8	4939.0	3853.9	2555.2	731.5	183.7
62.5°	2713.6	3902.4	4791.0	5240.2	5208.3	4492.1	3717.3	2457.6	545.9	136.6
65°	2542.8	3463.2	3993.8	4305.1	4295.1	3695.4	3199.5	2201.6	393.1	101.4
67.5°	2143.5	2711.3	3226.2	3601.2	3603.6	3016.8	2502.3	1759.4	267.5	80.9
70°	1507.7	1999.8	2742.7	3160.0	3179.1	2530.4	1853.7	1172.6	176.6	69.5
72.5°	900.4	1510.5	2280.6	2597.5	2587.5	2099.7	1375.4	699.1	107.6	61.9
75°	436.4	902.8	1152.7	1336.8	1329.2	1050.3	732.9	342.7	78.5	55.7
77.5°	118.5	277.5	446.4	580.6	596.3	420.7	240.3	91.9	49.0	41.9
80°	40.0	85.7	145.6	198.0	203.2	181.8	90.4	32.4	21.4	20.9
82.5°	15.2	20.9	26.7	23.8	23.8	24.7	19.5	13.8	10.0	8.6
85°	0.0	0.0	0.5	1.0	1.0	1.4	1.4	1.4	1.0	1.0
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

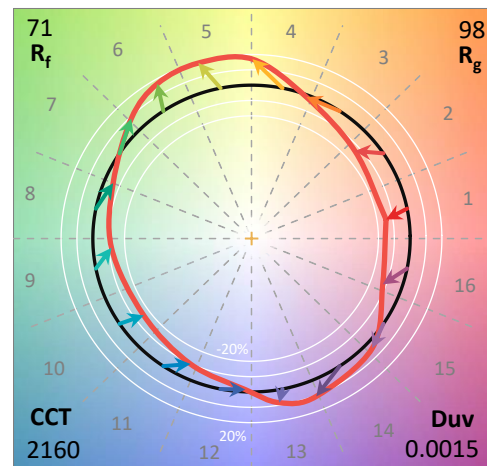
Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

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

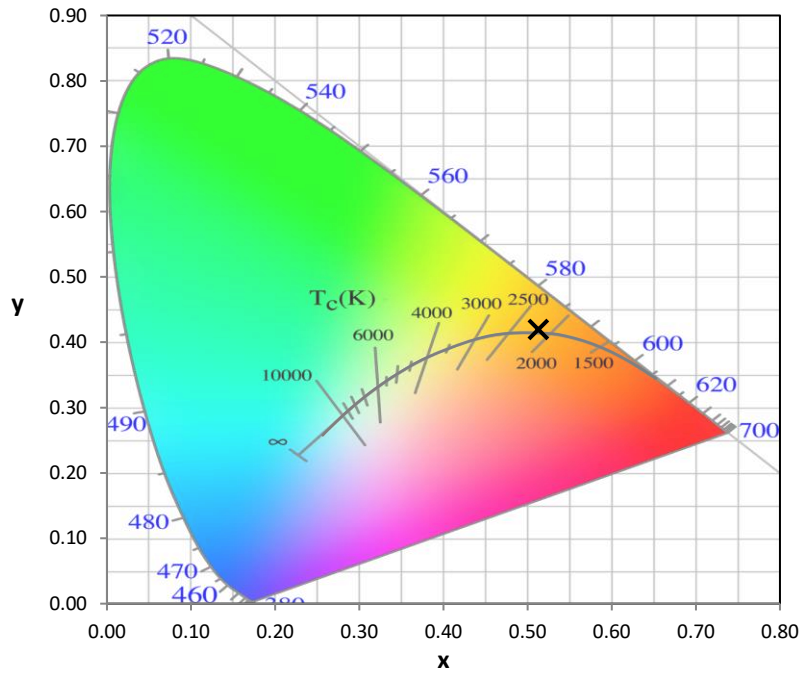
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-2

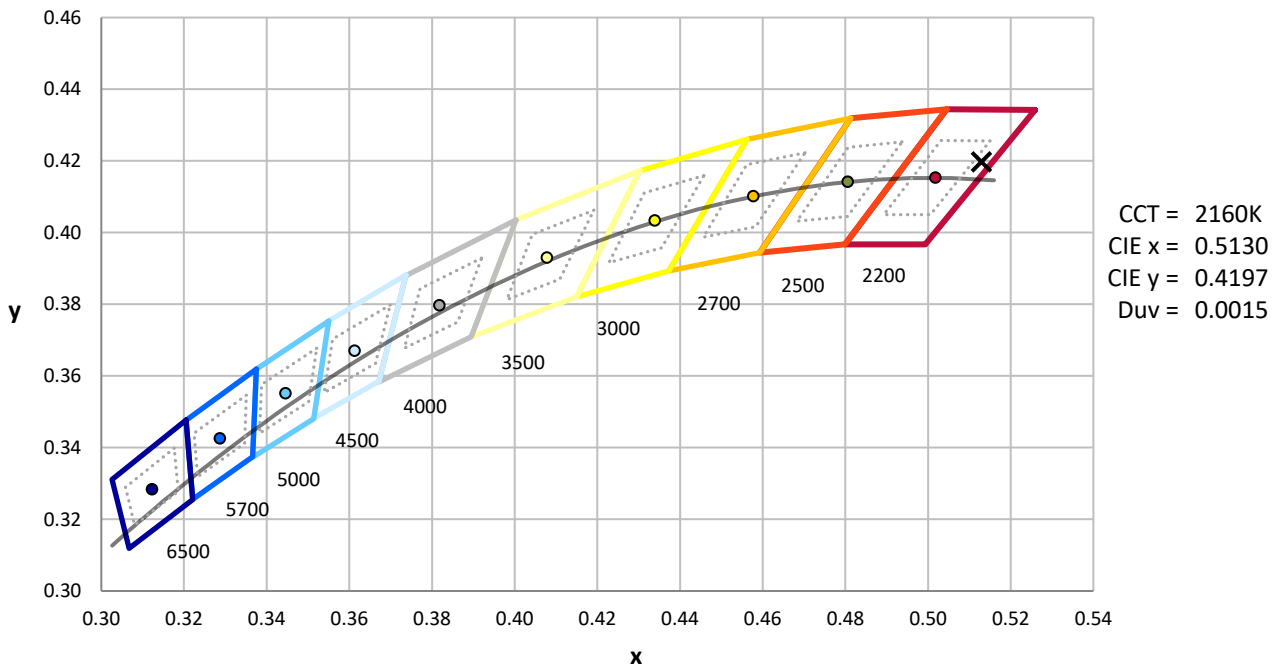
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



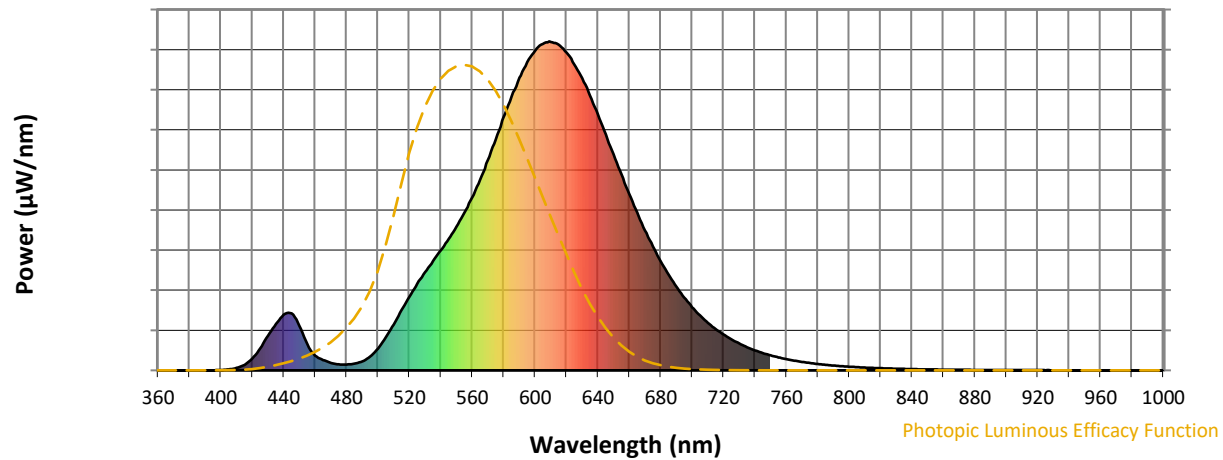
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

Photopic Flux vs. Wavelength

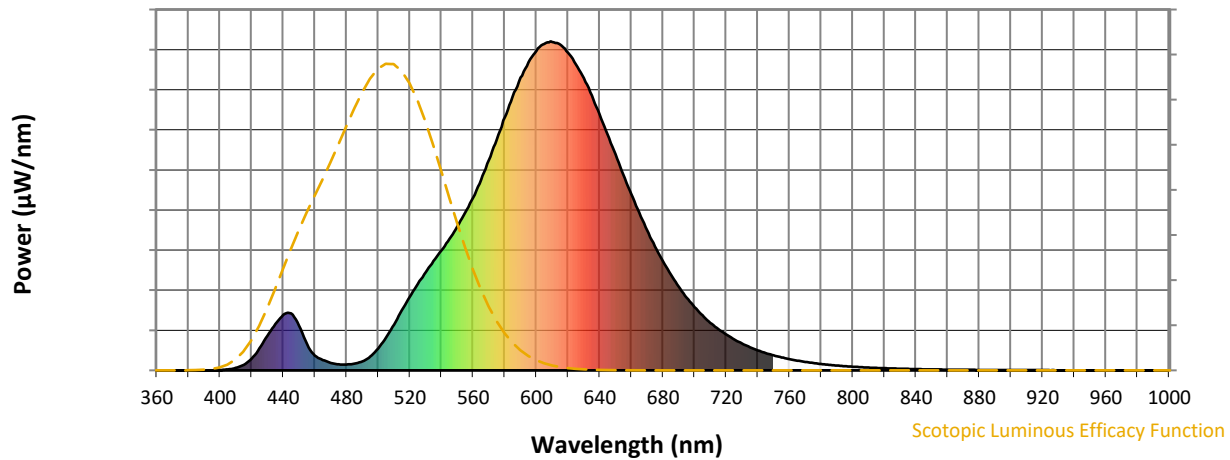


Photopic Lumens: NR

λ (nm)	Power W ^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

Scotopic Flux vs. Wavelength



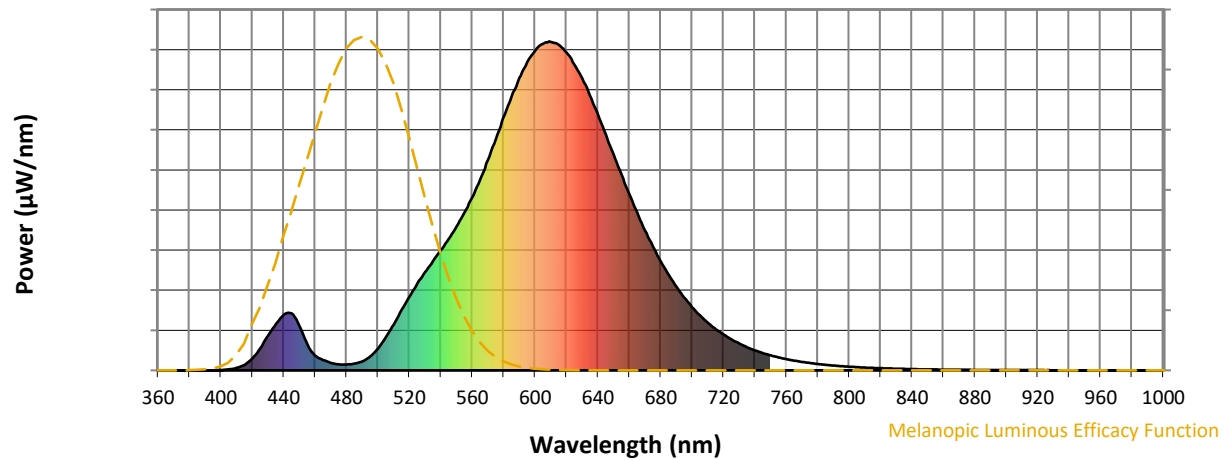
Scotopic Lumens: NR

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

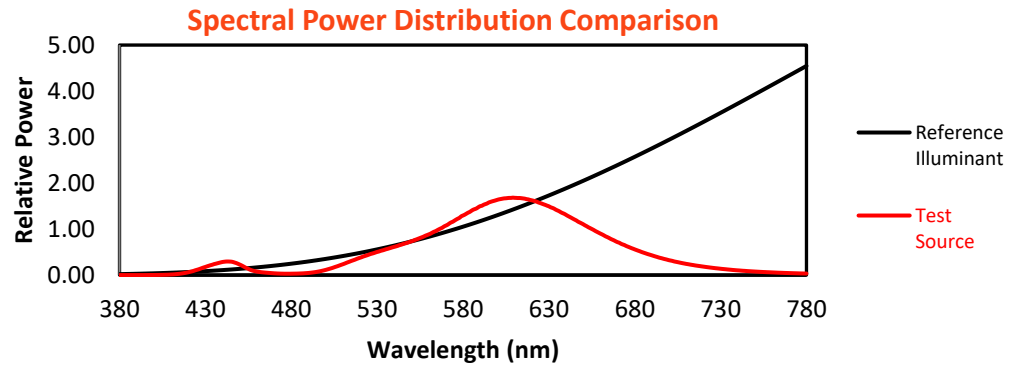
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27	NR	620	966	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

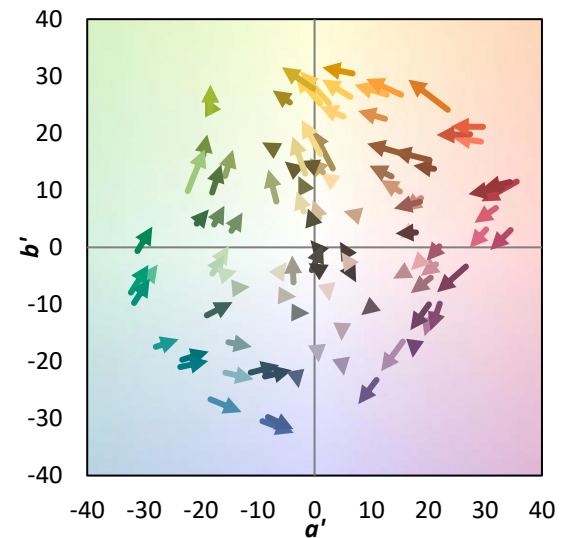
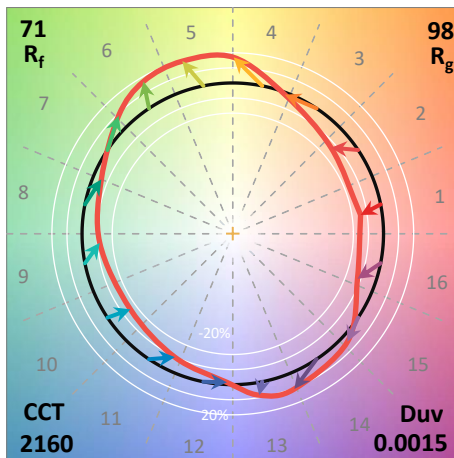
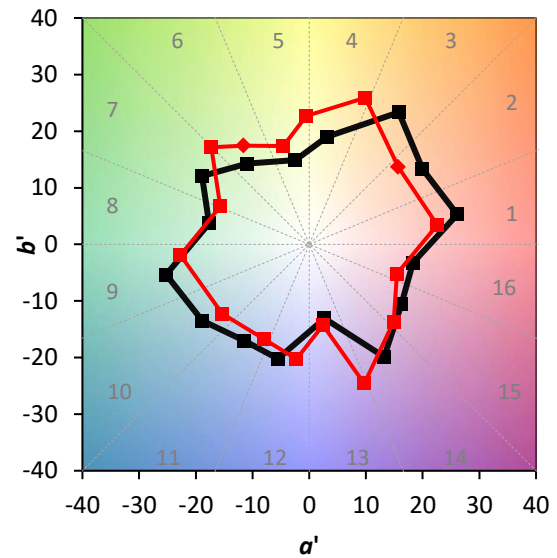
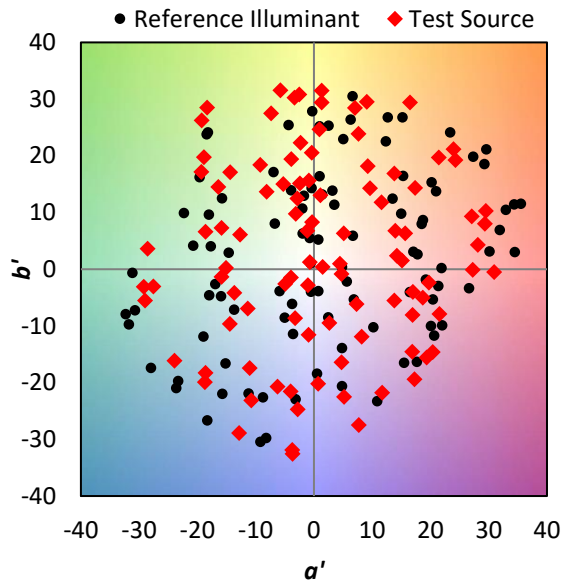
TM-30-18

Summary

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

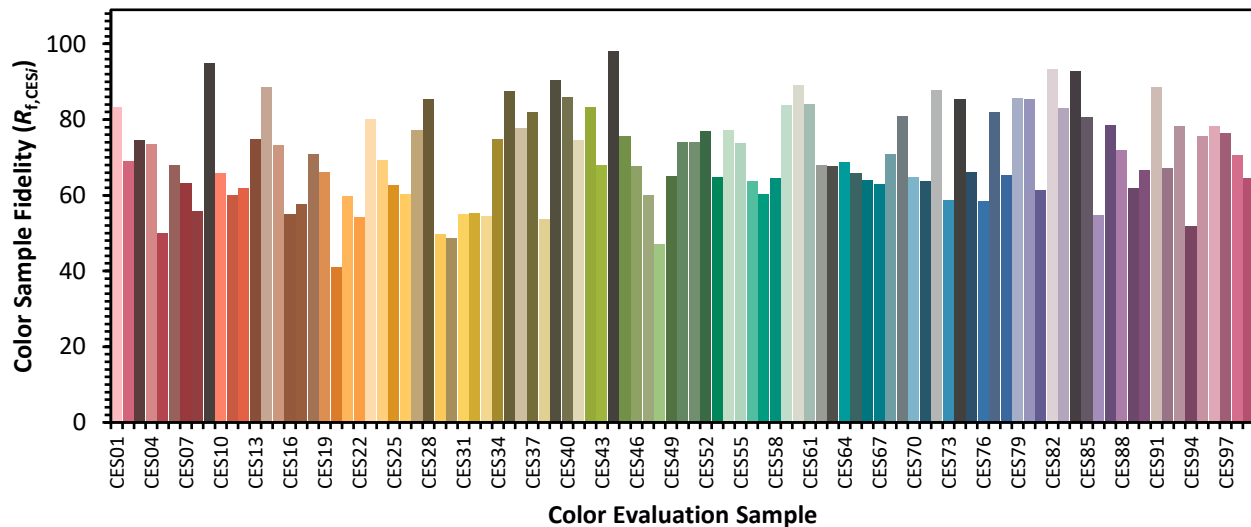


Color Vector Graphics

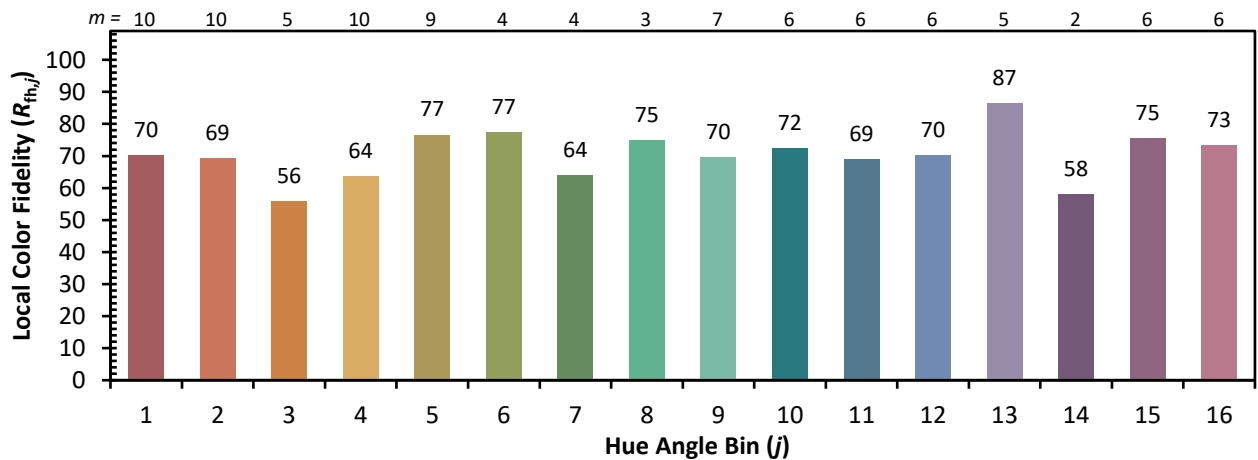
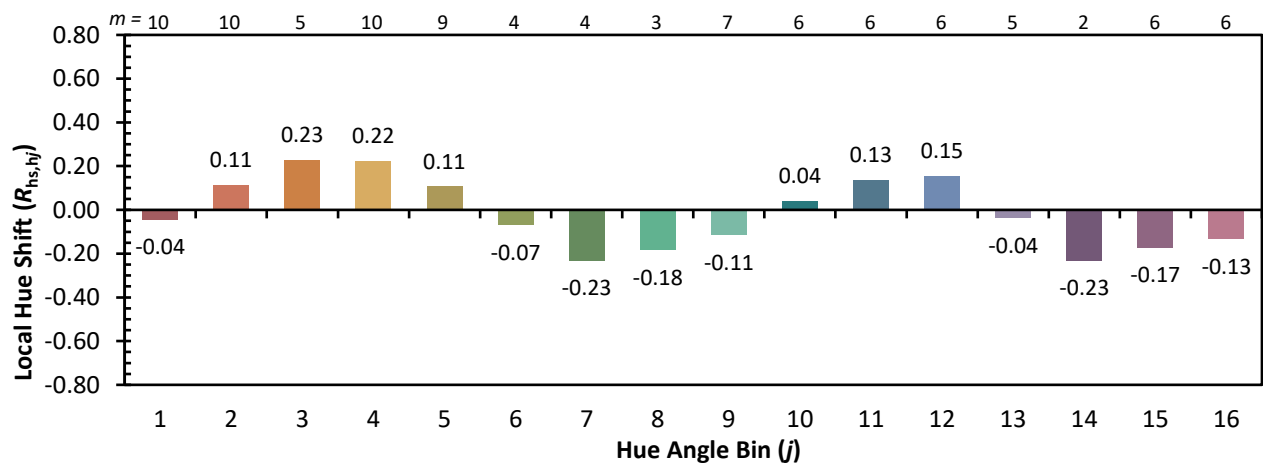
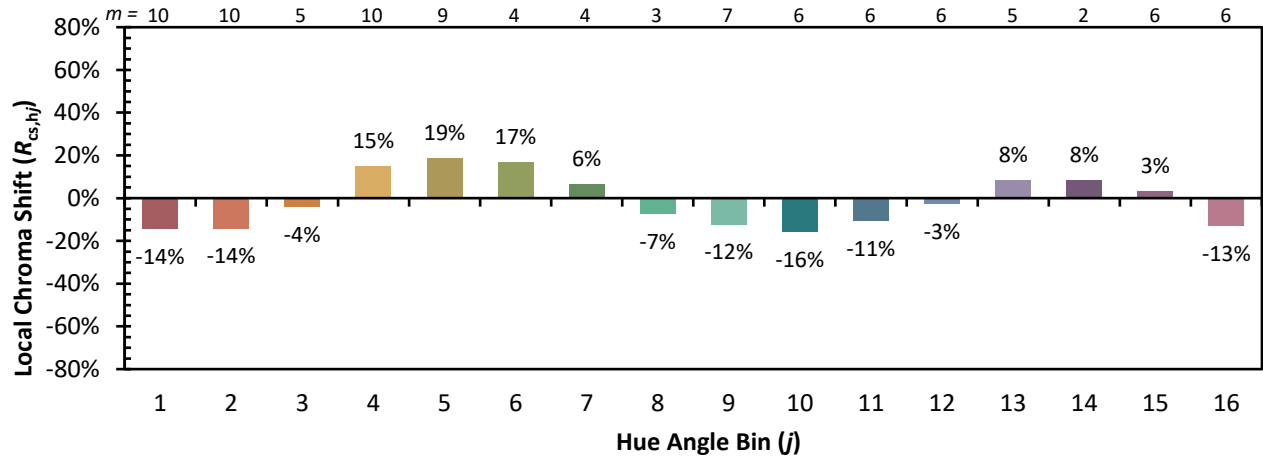


Individual Sample Fidelity Index ($R_{f,i}$)

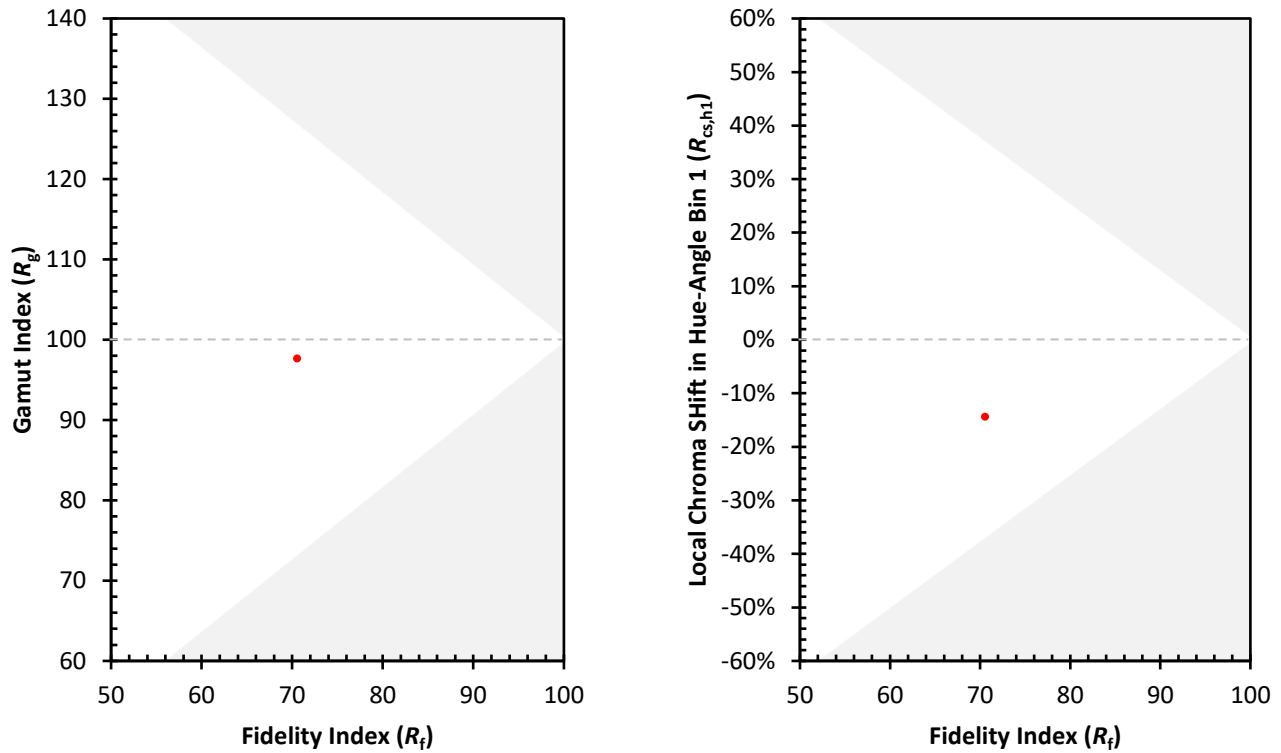
CES01 = 87	CES26 = 60	CES51 = 74	CES76 = 58
CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82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