

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: P991295

Luminaire Tested: **GPC-SA2A-830-U-RBC**

Issue Date: 07/03/2025

Test Information

Test Method: LM-79-08
Report Number: P991295
Test Lab: INNOVATION CENTER(G1)
Issue Date: 07/03/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-SA2A-830-U-RBC
Description: GALLEON PEDESTRAIAN COMPANION 615mA 2xLight Square PACKAGE 80CRI
3000K FIXTURE w/ RIGHT CORNER BACKLIGHT CONTROL
Light Source: (28) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4914.6 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 0.67' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 55.6
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

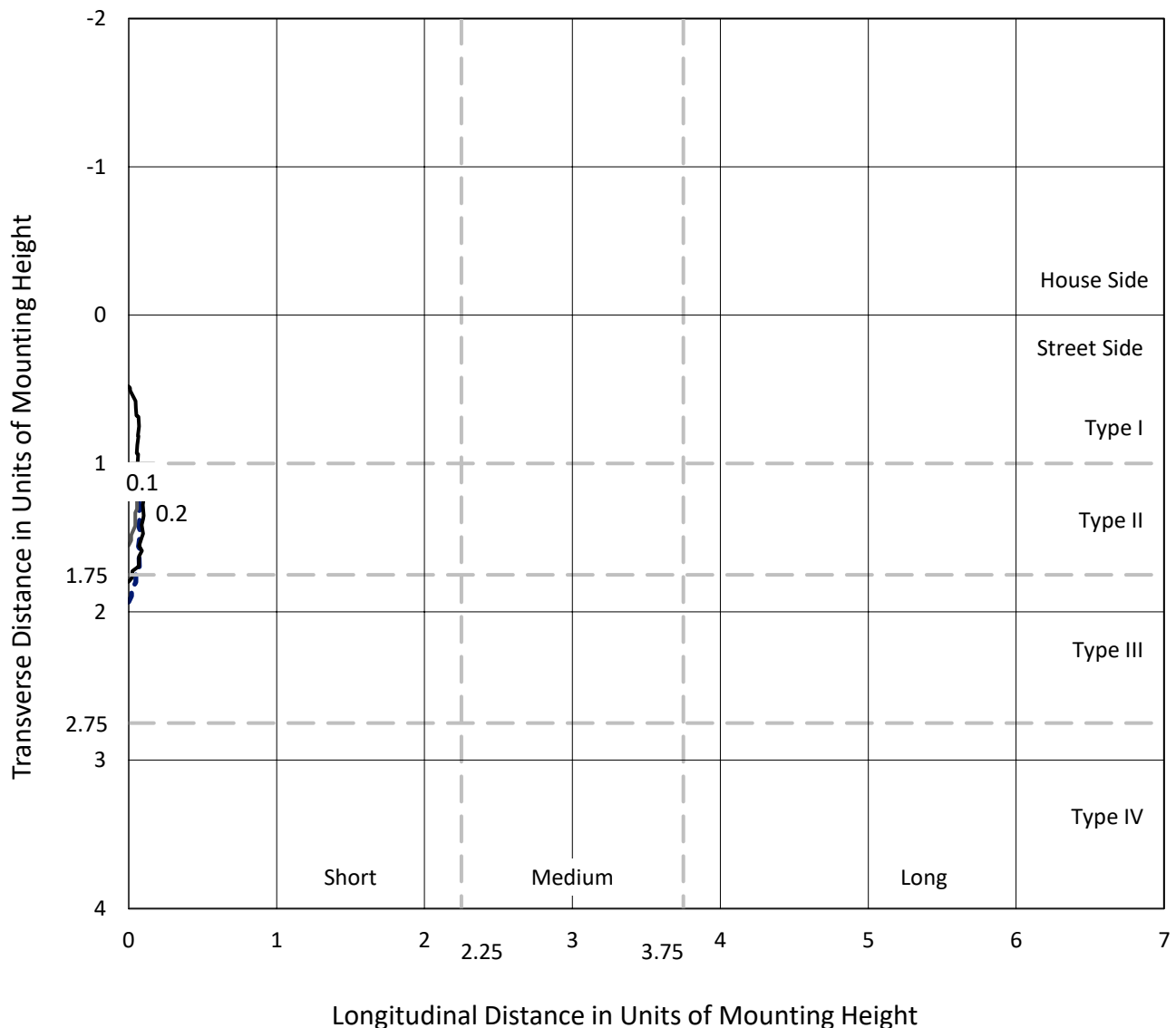


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Iso-Footcandle Lines of Horizontal Illumination

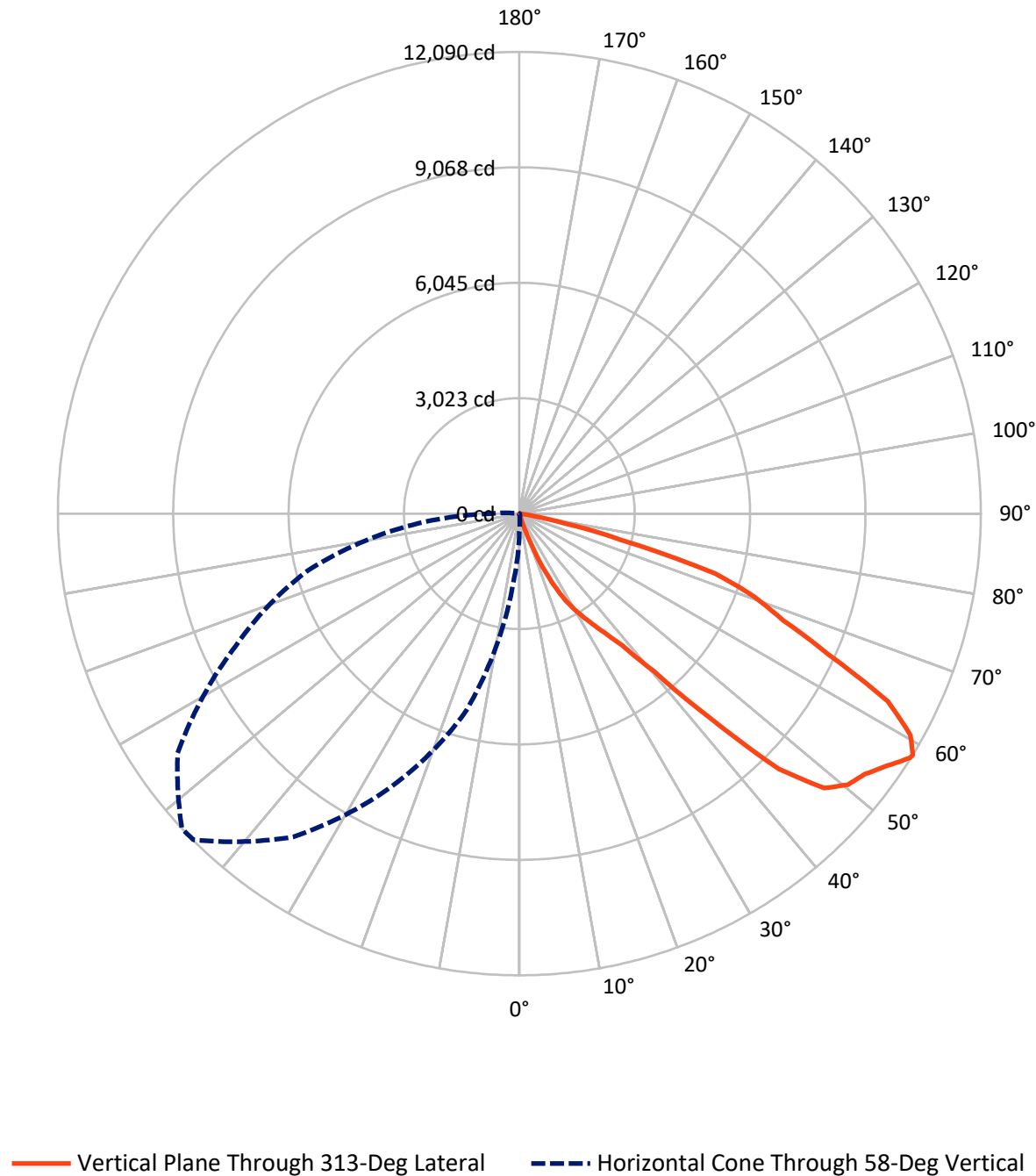
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 0.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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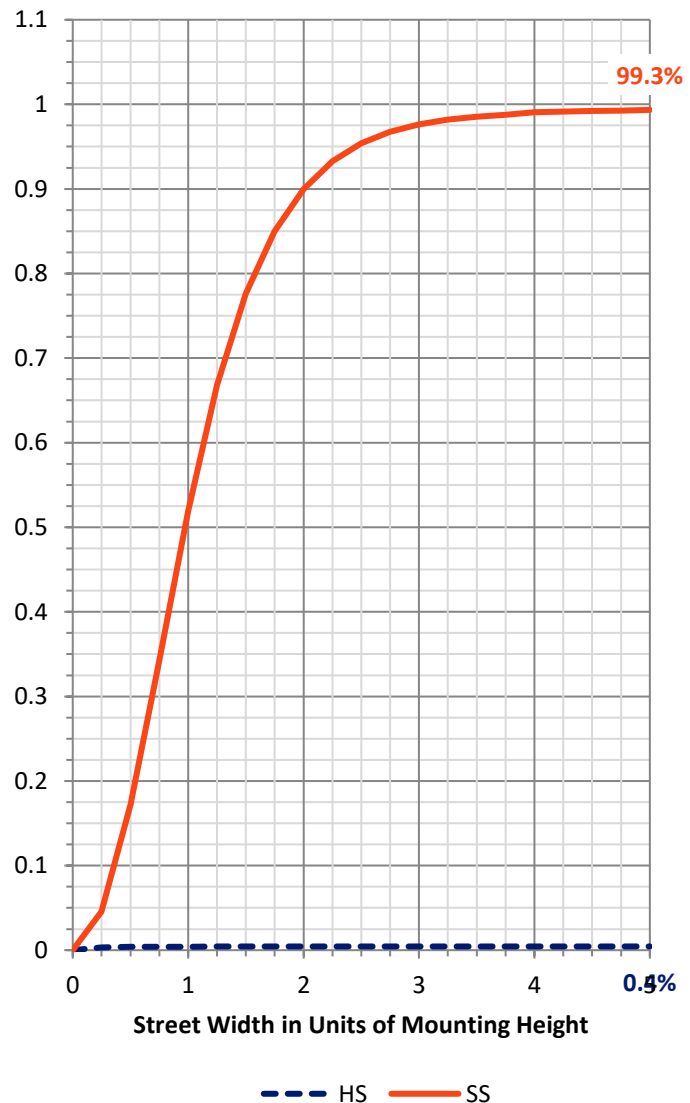
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22.0	0.0	22.0
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	4892.6	0.0	4892.6
	% Fixture	99.6	0.0	99.6
Total	Lumens	4914.6	0.0	4914.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.7	0.0
10°-20°	8.5	0.2
20°-30°	124.1	2.5
30°-40°	356.8	7.3
40°-50°	1016.4	20.7
50°-60°	1598.7	32.5
60°-70°	1363.4	27.7
70°-80°	434.9	8.8
80°-90°	11.1	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°	4914.6	100.0
0°-180°	4914.6	100.0



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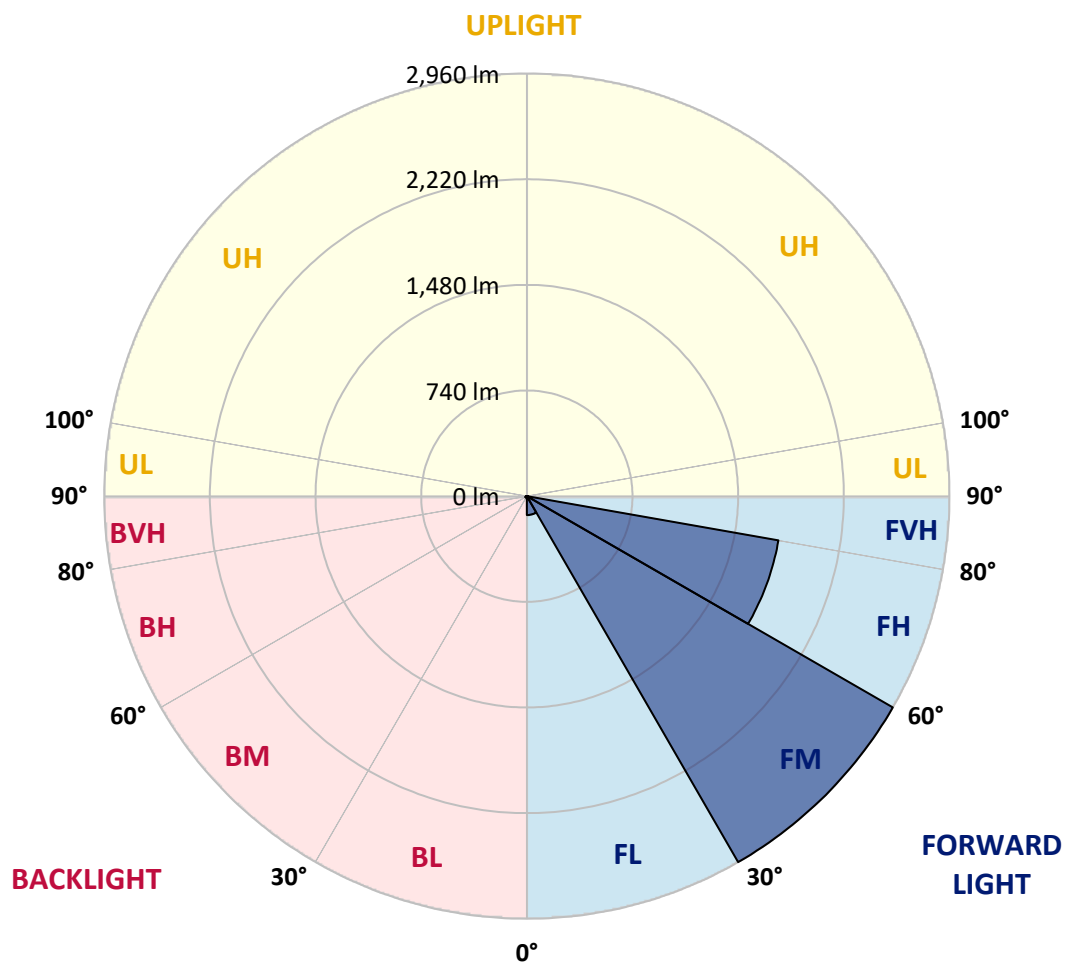
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	132.5	2.7			
FM	(30°-60°)	2960.2	60.2			
FH	(60°-80°)	1789.5	36.4			G1/1800
FVH	(80°-90°)	10.5	0.2			G1/100
BL	(0°-30°)	0.9	0.0	B0/110		
BM	(30°-60°)	11.8	0.2	B0/220		
BH	(60°-80°)	8.7	0.2	B0/110		G0/110
BVH	(80°-90°)	0.6	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°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
2.5°	17.7	18.7	19.7	18.7	16.7	12.8	12.8	9.8	6.9	3.9	3.0
5°	19.7	19.7	19.7	18.7	16.7	12.8	11.8	8.9	5.9	3.9	2.0
7.5°	21.6	21.6	20.7	18.7	15.7	12.8	11.8	8.9	5.9	3.0	0.0
10°	23.6	23.6	21.6	19.7	15.7	11.8	10.8	7.9	4.9	2.0	0.0
12.5°	26.6	25.6	22.6	19.7	15.7	10.8	10.8	7.9	3.9	1.0	0.0
15°	30.5	27.5	23.6	19.7	14.8	10.8	9.8	6.9	3.0	0.0	0.0
17.5°	33.4	30.5	24.6	18.7	13.8	9.8	8.9	5.9	3.0	0.0	0.0
20°	36.4	31.5	24.6	18.7	13.8	8.9	7.9	4.9	1.0	0.0	0.0
22.5°	41.3	33.4	24.6	18.7	12.8	7.9	6.9	3.9	0.0	0.0	0.0
25°	51.1	35.4	24.6	17.7	11.8	6.9	5.9	2.0	0.0	0.0	0.0
27.5°	62.9	38.4	24.6	16.7	10.8	5.9	4.9	1.0	0.0	0.0	0.0
30°	75.7	41.3	24.6	16.7	9.8	4.9	3.9	0.0	0.0	0.0	0.0
32.5°	89.5	45.2	24.6	15.7	8.9	3.9	3.0	0.0	0.0	0.0	0.0
35°	115.1	51.1	24.6	15.7	7.9	3.0	2.0	0.0	0.0	0.0	0.0
37.5°	126.9	59.0	24.6	14.8	7.9	2.0	1.0	0.0	0.0	0.0	0.0
40°	131.8	57.0	23.6	14.8	6.9	1.0	0.0	0.0	0.0	0.0	0.0
42.5°	142.6	53.1	24.6	13.8	6.9	1.0	0.0	0.0	0.0	0.0	0.0
45°	174.1	53.1	26.6	13.8	5.9	2.0	0.0	0.0	0.0	0.0	0.0
47.5°	302.0	55.1	25.6	13.8	5.9	2.0	0.0	0.0	0.0	0.0	0.0
50°	496.7	64.9	24.6	14.8	6.9	1.0	0.0	0.0	0.0	0.0	0.0
52.5°	576.4	78.7	24.6	15.7	8.9	0.0	0.0	0.0	0.0	0.0	0.0
55°	552.8	96.4	24.6	16.7	10.8	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	502.6	91.5	26.6	19.7	13.8	0.0	0.0	0.0	0.0	0.0	0.0
58°	483.9	91.5	26.6	19.7	13.8	0.0	0.0	0.0	0.0	0.0	0.0
60°	379.7	93.4	30.5	21.6	14.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	282.3	95.4	34.4	24.6	14.8	1.0	0.0	0.0	0.0	0.0	0.0
65°	209.5	99.3	36.4	28.5	13.8	2.0	0.0	0.0	0.0	0.0	0.0
67.5°	167.2	102.3	39.3	31.5	15.7	3.9	1.0	0.0	0.0	0.0	0.0
70°	143.6	98.4	42.3	32.5	14.8	5.9	3.0	0.0	0.0	0.0	0.0
72.5°	127.9	92.5	48.2	31.5	15.7	5.9	3.0	0.0	0.0	0.0	0.0
75°	115.1	84.6	55.1	30.5	15.7	5.9	3.9	0.0	0.0	0.0	0.0
77.5°	86.6	73.8	54.1	29.5	14.8	5.9	3.9	0.0	0.0	0.0	0.0
80°	43.3	49.2	47.2	26.6	11.8	4.9	3.9	1.0	0.0	0.0	0.0
82.5°	17.7	18.7	23.6	19.7	9.8	3.9	3.9	1.0	0.0	0.0	0.0
85°	2.0	3.9	6.9	7.9	6.9	3.9	3.9	1.0	0.0	0.0	0.0
87.5°	0.0	1.0	3.9	5.9	4.9	3.0	2.0	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°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
2.5°	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
5°	1.0	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°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
2.5°	1.0	2.0	2.0	2.0	3.0	3.0	3.9	4.9	4.9	4.9	5.9
5°	0.0	0.0	1.0	1.0	2.0	3.0	3.9	5.9	6.9	6.9	7.9
7.5°	0.0	0.0	0.0	1.0	2.0	3.0	3.9	5.9	7.9	8.9	9.8
10°	0.0	0.0	0.0	0.0	1.0	2.0	3.9	6.9	9.8	11.8	13.8
12.5°	0.0	0.0	0.0	0.0	0.0	1.0	3.9	7.9	11.8	14.8	16.7
15°	0.0	0.0	0.0	0.0	0.0	1.0	3.9	7.9	14.8	17.7	21.6
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.9	8.9	16.7	21.6	29.5
20°	0.0	0.0	0.0	0.0	0.0	0.0	3.0	8.9	18.7	26.6	44.3
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.0	8.9	20.7	34.4	81.6
25°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	8.9	23.6	51.1	135.7
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	9.8	28.5	71.8	198.7
30°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	9.8	35.4	97.4	277.4
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	9.8	41.3	122.9	377.7
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	49.2	163.3	474.1
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	61.0	180.0	555.7
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	58.0	195.7	649.2
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	53.1	218.4	795.7
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	53.1	289.2	1120.3
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	64.9	450.5	1712.4
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	83.6	691.4	2438.3
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	101.3	850.8	2859.2
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	122.0	851.8	2845.4
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	135.7	762.3	2568.1
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	134.7	737.7	2491.4
60°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	9.8	118.0	640.3	2174.7
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.9	15.7	103.3	459.3	1802.9
65°	0.0	0.0	0.0	0.0	0.0	0.0	7.9	17.7	94.4	333.4	1353.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.8	20.7	90.5	236.1	941.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	11.8	23.6	83.6	169.2	619.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	11.8	29.5	78.7	132.8	373.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	11.8	37.4	68.8	108.2	200.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	11.8	40.3	57.0	78.7	122.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	10.8	36.4	41.3	34.4	41.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.9	21.6	8.9	8.9	13.8
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°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
2.5°	6.9	6.9	6.9	6.9	7.9	7.9	10.8	13.8	16.7	17.7
5°	8.9	9.8	10.8	10.8	10.8	11.8	13.8	15.7	18.7	19.7
7.5°	12.8	13.8	15.7	15.7	15.7	16.7	17.7	19.7	21.6	21.6
10°	16.7	19.7	20.7	21.6	22.6	22.6	22.6	23.6	24.6	23.6
12.5°	22.6	26.6	31.5	32.5	32.5	32.5	31.5	29.5	27.5	26.6
15°	31.5	43.3	59.0	64.9	62.0	55.1	48.2	37.4	32.5	30.5
17.5°	58.0	118.0	214.4	237.0	232.1	199.7	117.0	57.0	38.4	33.4
20°	156.4	381.6	629.5	689.5	721.0	597.0	345.2	132.8	47.2	36.4
22.5°	337.4	792.8	1228.5	1383.9	1393.7	1121.3	671.8	269.5	67.9	41.3
25°	542.9	1267.8	1861.9	2012.4	2015.3	1728.1	1074.1	436.7	103.3	51.1
27.5°	832.1	1777.3	2442.2	2567.1	2565.1	2274.0	1552.1	666.9	144.6	62.9
30°	1128.1	2174.7	2824.8	2980.2	2994.9	2646.8	1951.4	939.3	188.8	75.7
32.5°	1421.2	2468.7	3174.0	3380.5	3367.7	2976.3	2229.7	1162.6	264.6	89.5
35°	1652.4	2719.6	3560.5	3814.3	3824.1	3338.2	2476.6	1379.0	329.5	115.1
37.5°	1850.1	3043.1	4074.9	4368.0	4380.8	3788.7	2735.3	1591.4	385.6	126.9
40°	2094.0	3574.3	4926.7	5424.4	5426.3	4628.6	3200.5	1829.4	461.3	131.8
42.5°	2641.9	4712.3	6590.9	7305.9	7367.9	6371.5	4257.8	2345.8	580.3	142.6
45°	3737.5	6212.2	8713.4	9536.6	9615.3	8540.3	6070.6	3537.9	841.9	174.1
47.5°	5040.8	7516.4	9946.8	10739.5	10791.7	9566.1	7284.3	4916.8	1433.1	302.0
50°	5842.4	7999.3	10400.2	11156.6	11165.4	9903.5	7664.9	5632.9	2041.9	496.7
52.5°	6091.2	8061.3	10417.9	11332.6	11358.2	9864.2	7717.0	5777.4	2295.6	576.4
55°	5989.9	8024.9	10604.8	11669.0	11696.5	10024.5	7681.6	5619.1	2176.6	552.8
57.5°	5758.8	8166.5	10911.6	12068.3	12068.3	10320.5	7812.4	5353.5	1885.5	502.6
58°	5724.3	8201.9	10928.4	12090.0	12081.1	10339.2	7866.5	5315.2	1821.6	483.9
60°	5677.1	8311.1	10804.4	11770.3	11744.7	10207.4	7964.9	5280.8	1511.7	379.7
62.5°	5608.3	8065.2	9901.5	10830.0	10764.1	9283.9	7682.6	5079.1	1128.1	282.3
65°	5255.2	7157.4	8254.1	8897.3	8876.7	7637.4	6612.5	4550.0	812.4	209.5
67.5°	4430.0	5603.4	6667.6	7442.6	7447.5	6234.8	5171.6	3636.2	552.8	167.2
70°	3115.9	4132.9	5668.3	6530.9	6570.2	5229.6	3831.0	2423.5	364.9	143.6
72.5°	1860.9	3121.8	4713.2	5368.3	5347.6	4339.5	2842.5	1444.9	222.3	127.9
75°	901.9	1865.8	2382.2	2762.8	2747.1	2170.7	1514.7	708.2	162.3	115.1
77.5°	244.9	573.4	922.6	1199.9	1232.4	869.5	496.7	189.8	101.3	86.6
80°	82.6	177.0	301.0	409.2	420.0	375.7	186.9	66.9	44.3	43.3
82.5°	31.5	43.3	55.1	49.2	49.2	51.1	40.3	28.5	20.7	17.7
85°	0.0	0.0	1.0	2.0	2.0	3.0	3.0	3.0	2.0	2.0
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: SP1-2407-184-9

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-830-U-5WQ

Data in this report applies to families of products including GSS-SB1A-830-U-5WQ

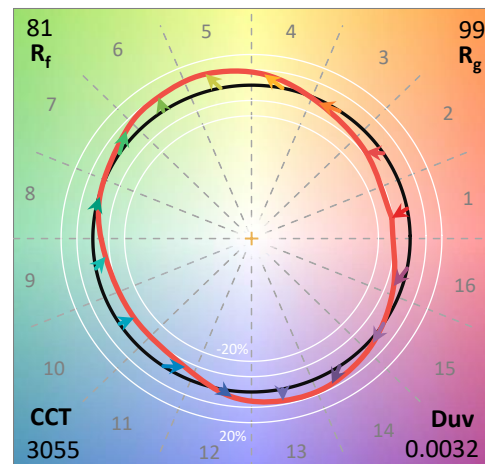
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-9
 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-830-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3055
 CIE u' : 0.2475
 CIE v' : 0.5247
 Duv: 0.0032
 CIE x: 0.4377
 CIE y: 0.4124
 CIE z: 0.1499
 Peak Wavelength (nm): 604
 Dominant Wavelength (nm): 581
 Purity: 55.16339
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 80.9
 R1: 79.5
 R2: 85.6
 R3: 92.1
 R4: 82.4
 R5: 78.9
 R6: 81.7
 R7: 85.1
 R8: 61.9
 R9: 6.8
 R10: 67.1
 R11: 82.5
 R12: 63.4
 R13: 80.2
 R14: 95.1
 R15: 71.7



Test Conditions

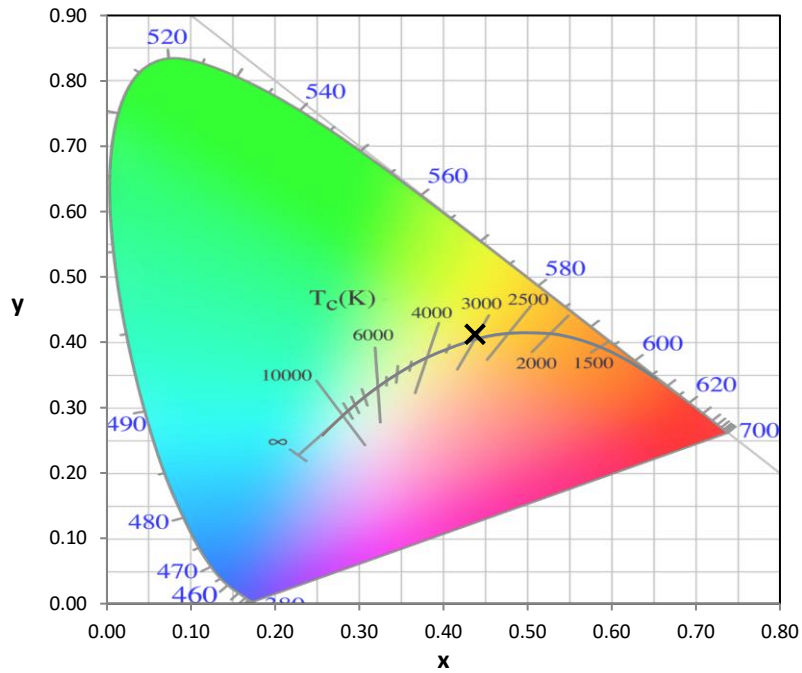
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-9

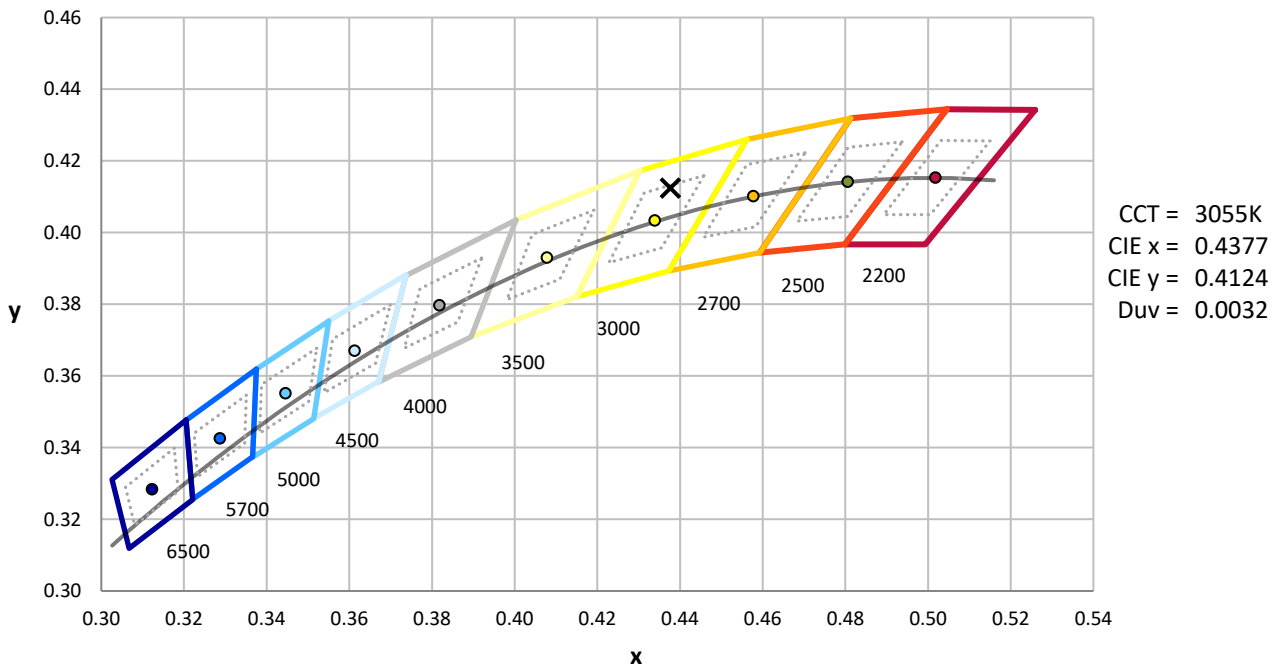
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-9

CIE 1931 Chromaticity Diagram



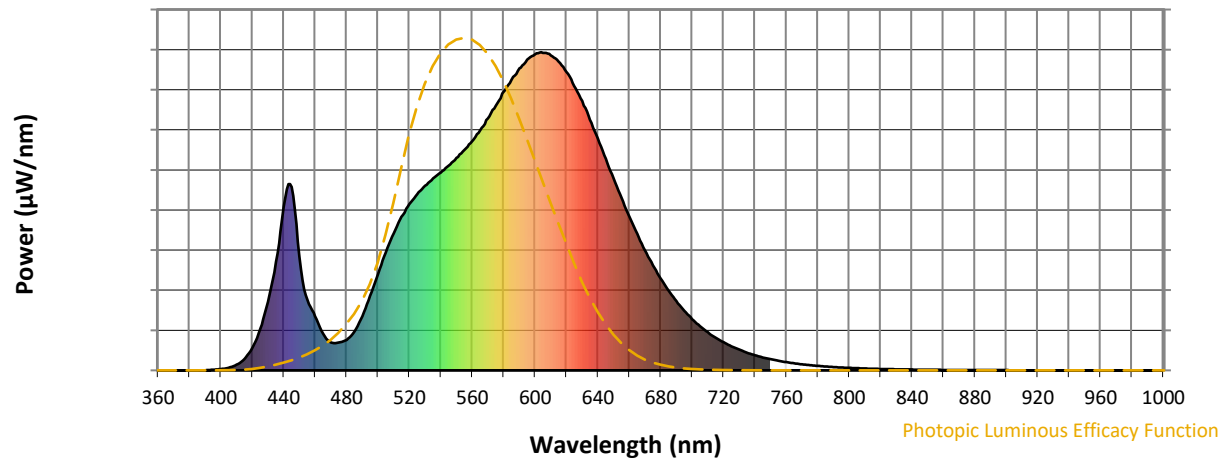
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-9

Photopic Flux vs. Wavelength

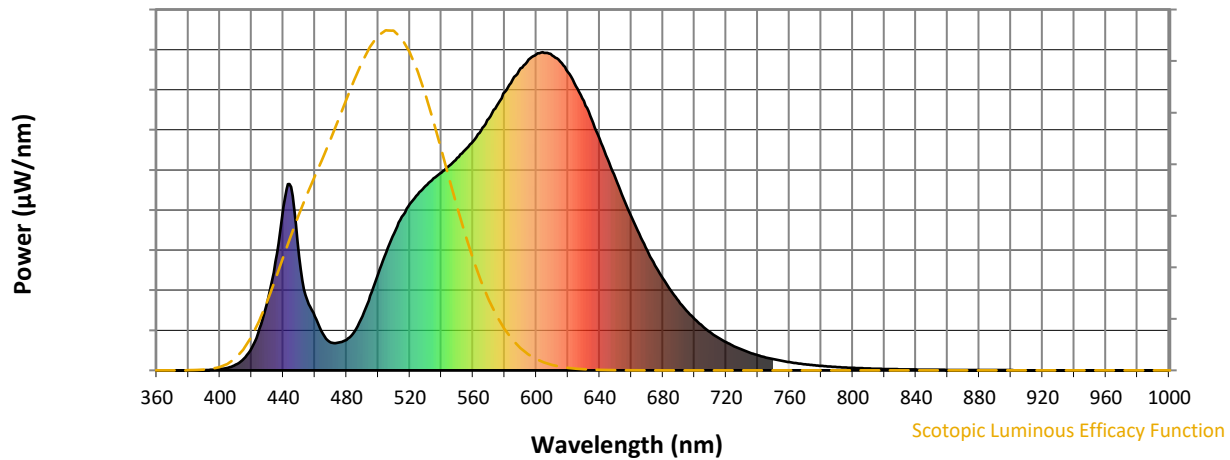


Photopic Lumens: NR

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Scotopic Flux vs. Wavelength



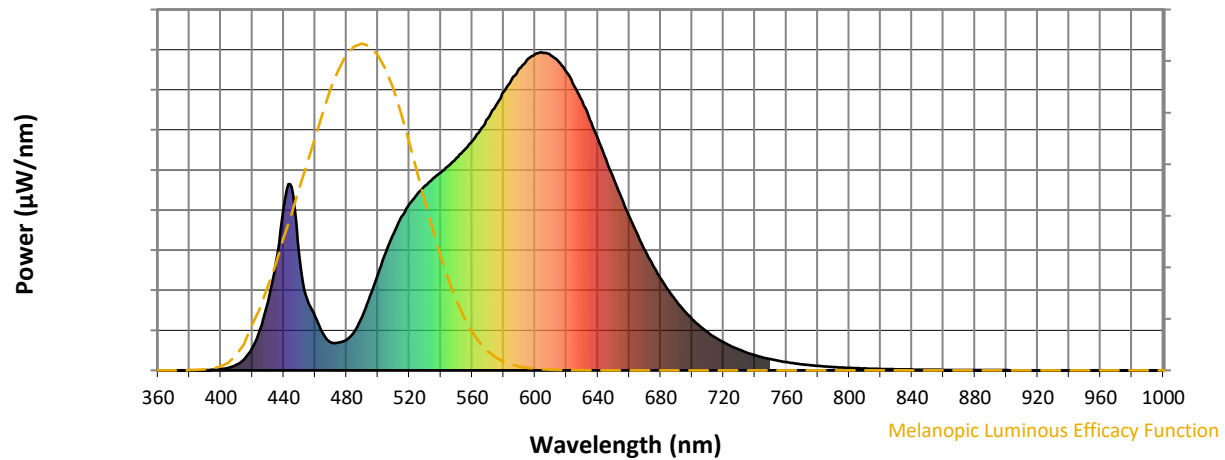
Scotopic Lumens: NR

S/P: 1.28

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.33

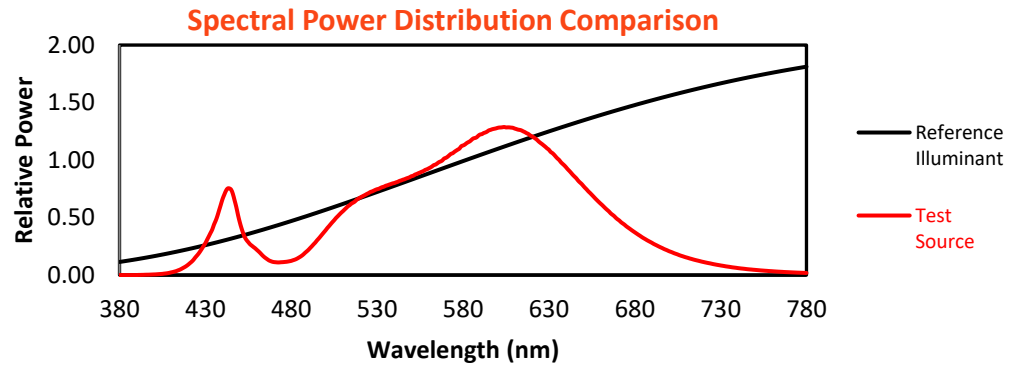
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

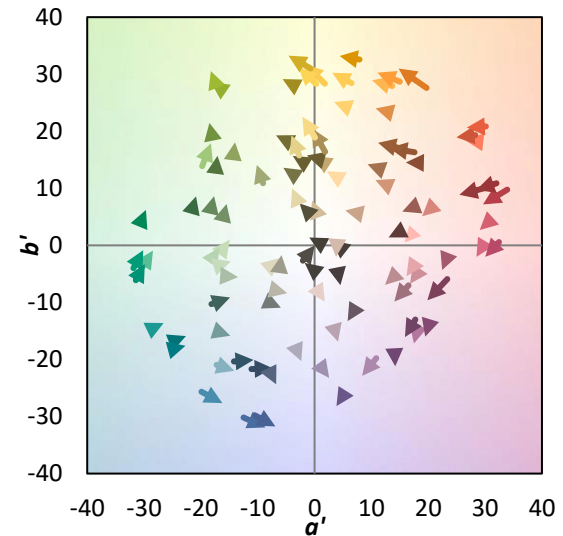
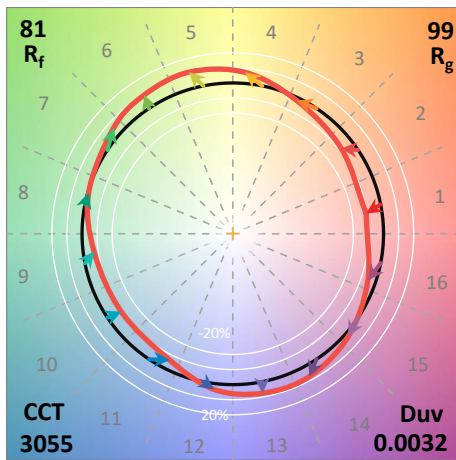
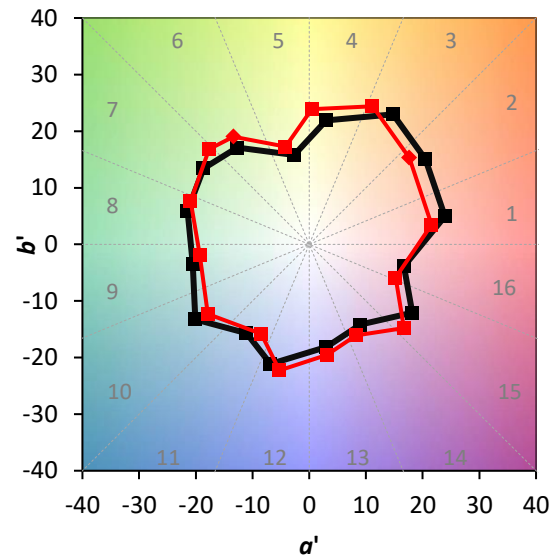
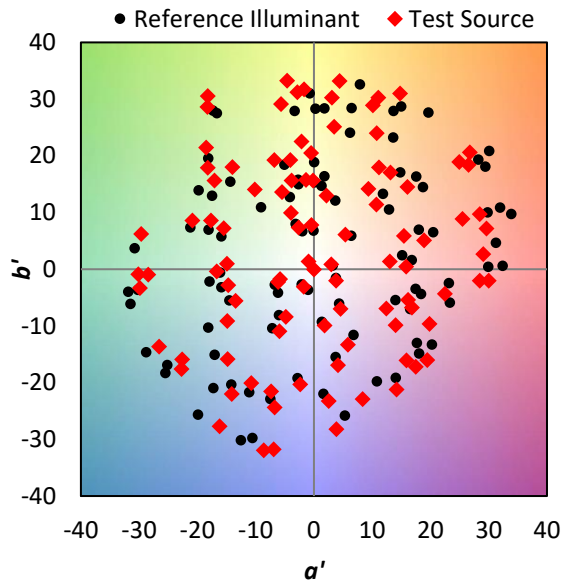
TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 80.9$
 $R_9 = 6.8$

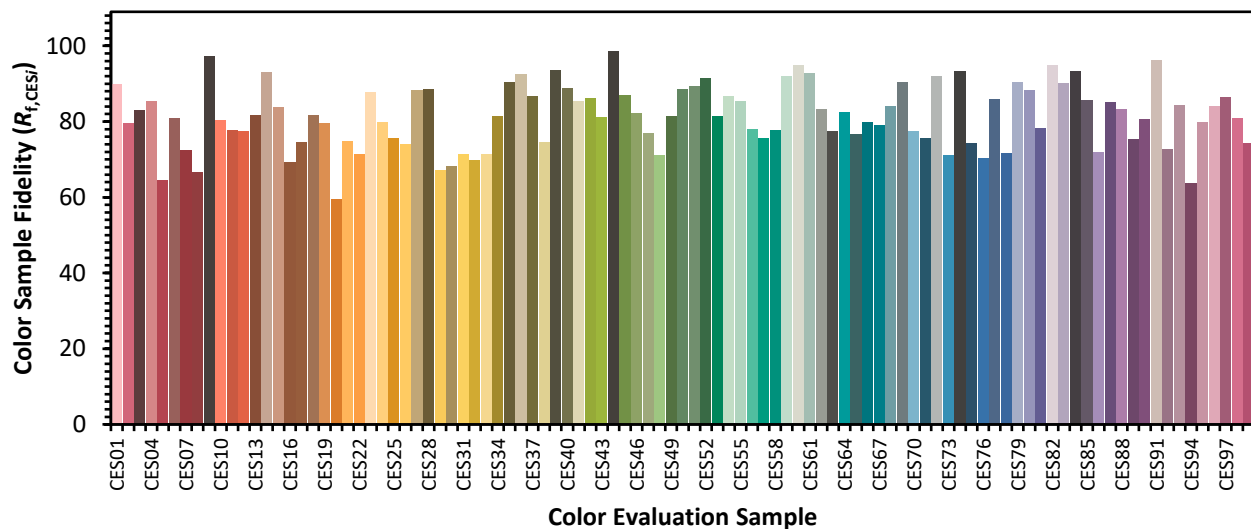


Color Vector Graphics

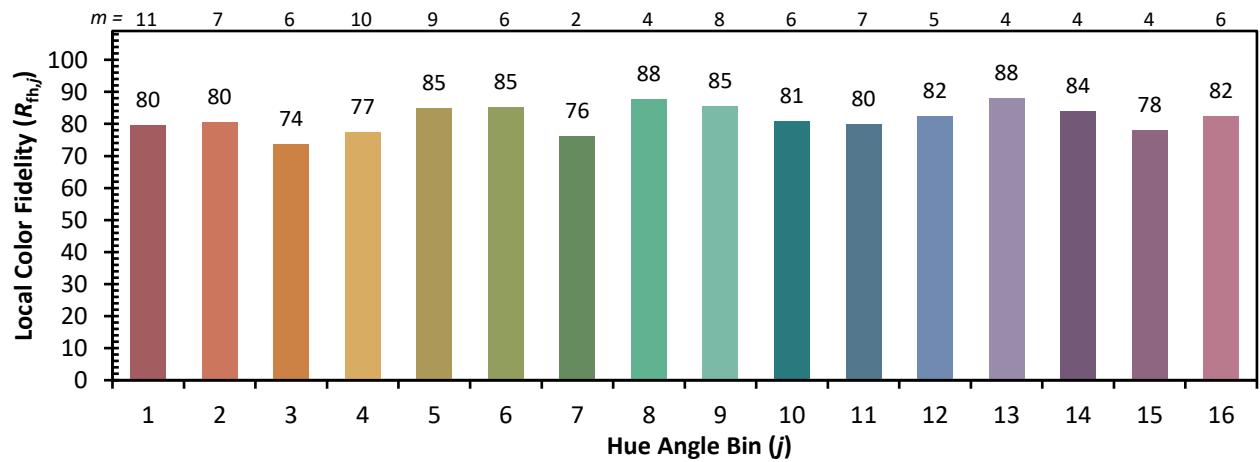
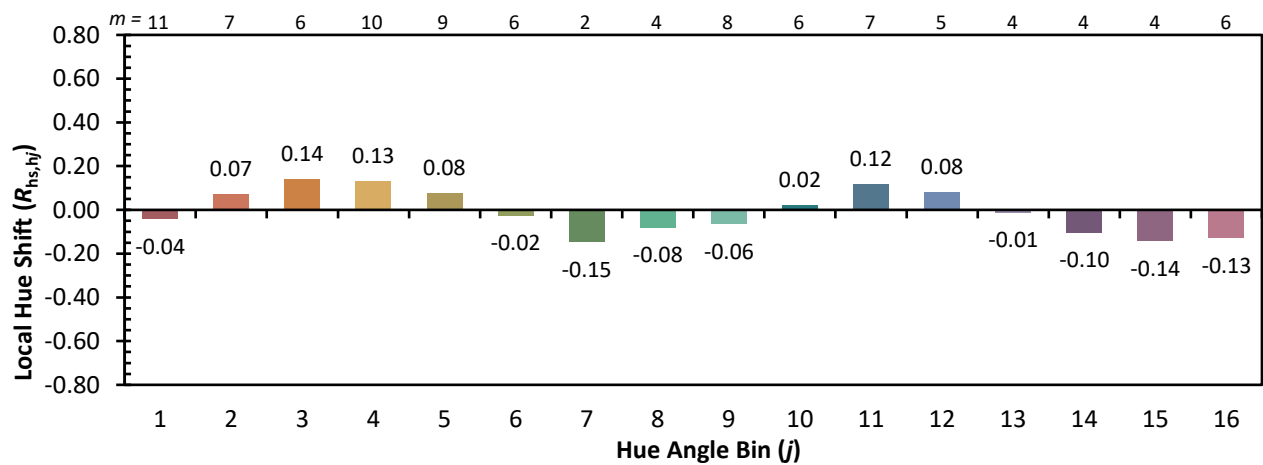
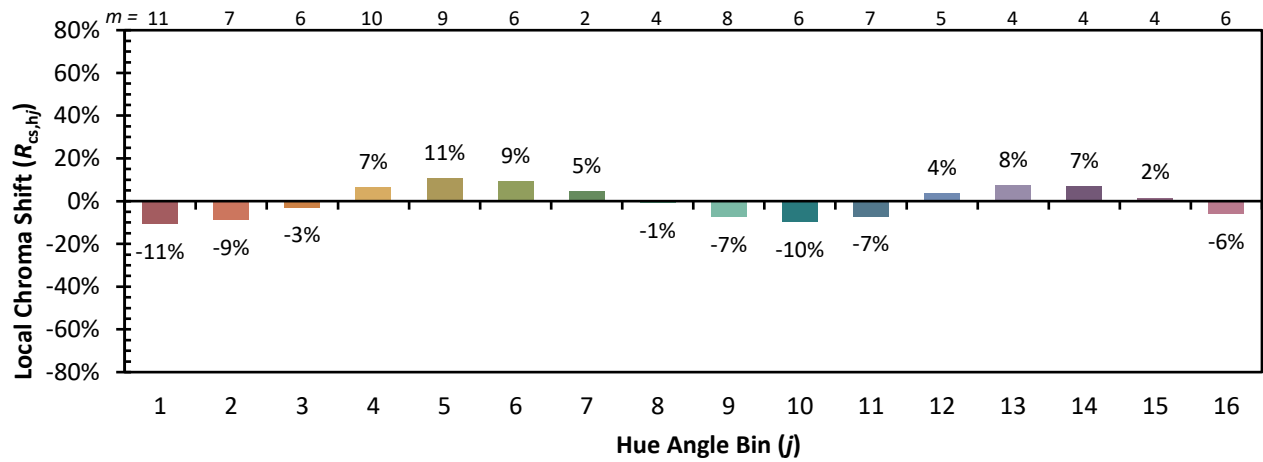


Individual Sample Fidelity Index ($R_{f,i}$)

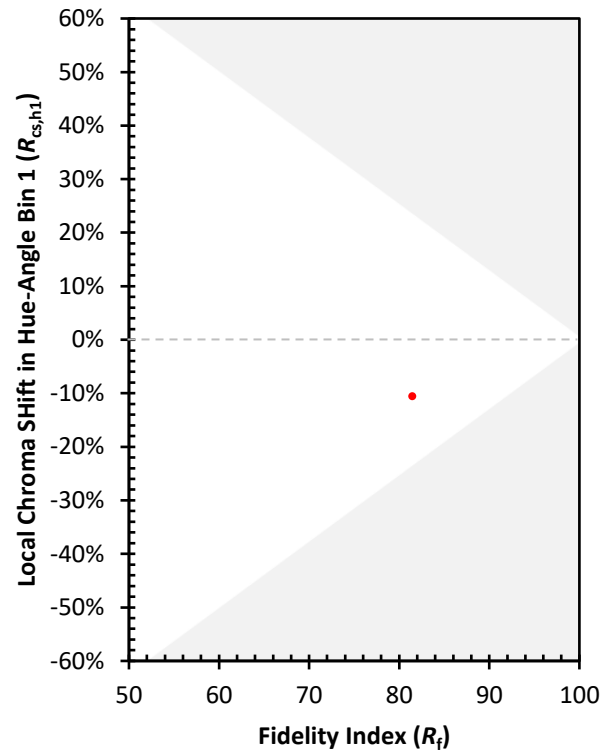
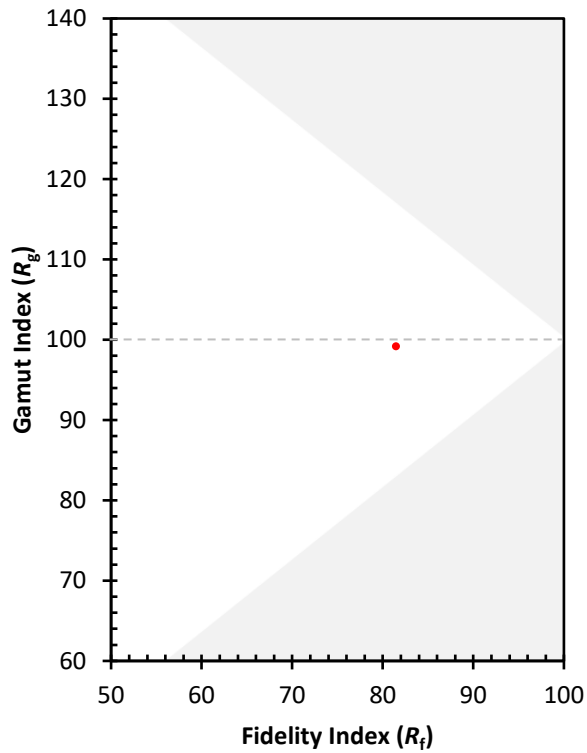
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 93
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 90	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 77	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)