

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: P991291

Luminaire Tested: **GPC-SA1A-830-U-RBC**

Issue Date: 07/03/2025

Test Information

Test Method: LM-79-08
Report Number: P991291
Test Lab: INNOVATION CENTER(G1)
Issue Date: 07/03/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-SA1A-830-U-RBC
Description: GALLEON PEDESTRAIAN COMPANION 615mA 1xLight Square PACKAGE 80CRI
3000K FIXTURE w/ RIGHT CORNER BACKLIGHT CONTROL
Light Source: (14) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2572.1 lumens
Efficiency: N/A
Efficacy: 87.5 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

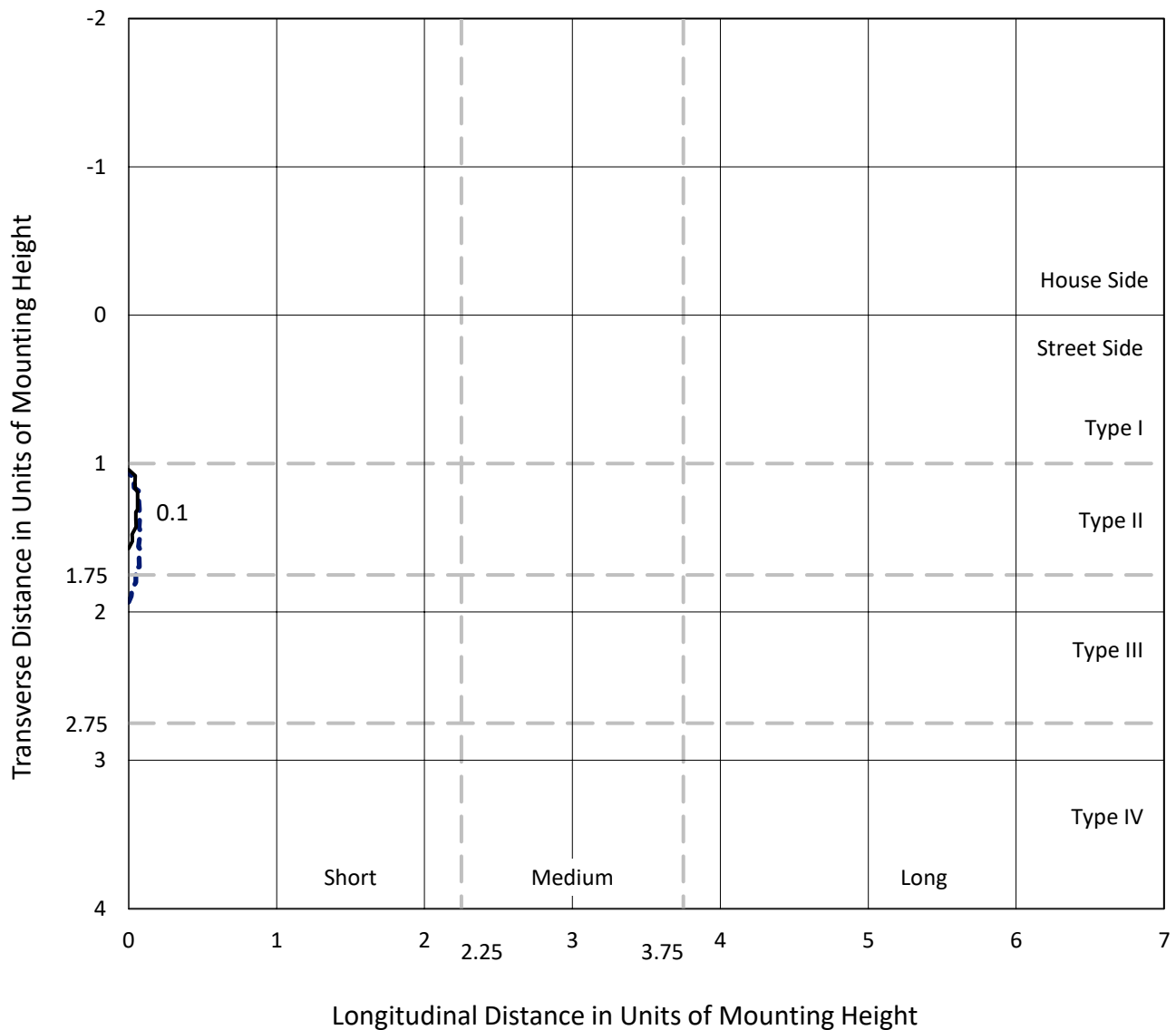


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Iso-Footcandle Lines of Horizontal Illumination

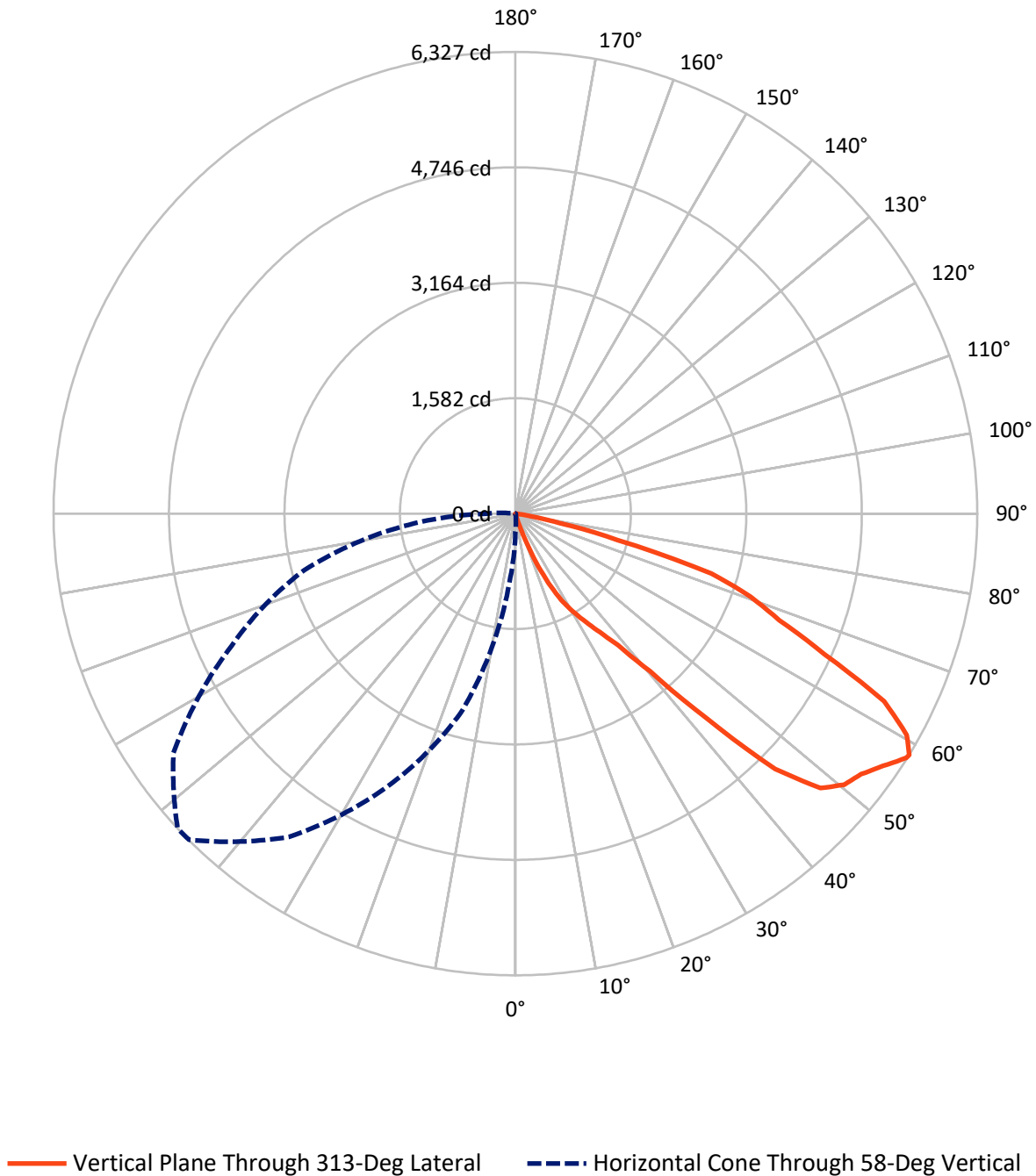
× Max cd
 - - - 1/2 Max cd



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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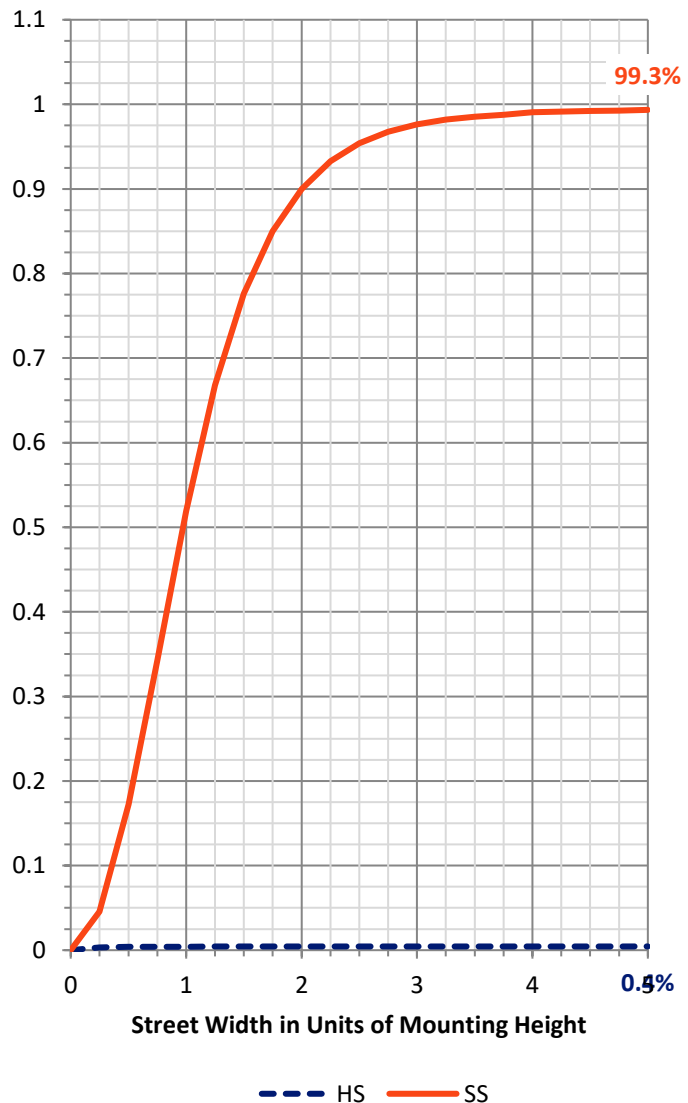
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11.5	0.0	11.5
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	2560.6	0.0	2560.6
	% Fixture	99.6	0.0	99.6
Total	Lumens	2572.1	0.0	2572.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.4	0.0
10°-20°	4.5	0.2
20°-30°	65.0	2.5
30°-40°	186.7	7.3
40°-50°	531.9	20.7
50°-60°	836.7	32.5
60°-70°	713.5	27.7
70°-80°	227.6	8.8
80°-90°	5.8	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°	2572.1	100.0
0°-180°	2572.1	100.0



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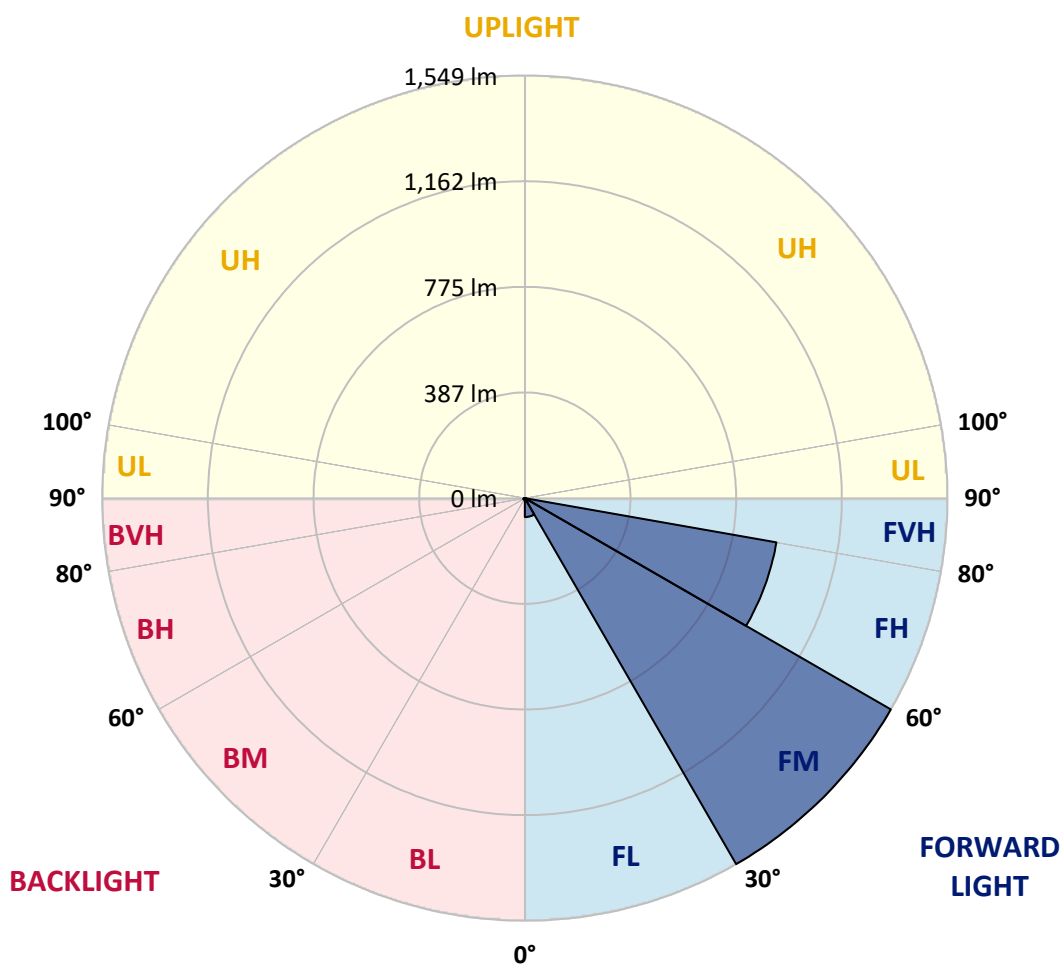
CATALOG NUMBER: GPC-SA1A-830-U-RBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	69.3	2.7			
FM	(30°-60°)	1549.2	60.2			
FH	(60°-80°)	936.6	36.4			G1/1800
FVH	(80°-90°)	5.5	0.2			G0/10
BL	(0°-30°)	0.5	0.0	B0/110		
BM	(30°-60°)	6.2	0.2	B0/220		
BH	(60°-80°)	4.6	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°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
2.5°	9.3	9.8	10.3	9.8	8.8	6.7	6.7	5.1	3.6	2.1	1.5
5°	10.3	10.3	10.3	9.8	8.8	6.7	6.2	4.6	3.1	2.1	1.0
7.5°	11.3	11.3	10.8	9.8	8.2	6.7	6.2	4.6	3.1	1.5	0.0
10°	12.4	12.4	11.3	10.3	8.2	6.2	5.7	4.1	2.6	1.0	0.0
12.5°	13.9	13.4	11.8	10.3	8.2	5.7	5.7	4.1	2.1	0.5	0.0
15°	16.0	14.4	12.4	10.3	7.7	5.7	5.1	3.6	1.5	0.0	0.0
17.5°	17.5	16.0	12.9	9.8	7.2	5.1	4.6	3.1	1.5	0.0	0.0
20°	19.0	16.5	12.9	9.8	7.2	4.6	4.1	2.6	0.5	0.0	0.0
22.5°	21.6	17.5	12.9	9.8	6.7	4.1	3.6	2.1	0.0	0.0	0.0
25°	26.8	18.5	12.9	9.3	6.2	3.6	3.1	1.0	0.0	0.0	0.0
27.5°	32.9	20.1	12.9	8.8	5.7	3.1	2.6	0.5	0.0	0.0	0.0
30°	39.6	21.6	12.9	8.8	5.1	2.6	2.1	0.0	0.0	0.0	0.0
32.5°	46.8	23.7	12.9	8.2	4.6	2.1	1.5	0.0	0.0	0.0	0.0
35°	60.2	26.8	12.9	8.2	4.1	1.5	1.0	0.0	0.0	0.0	0.0
37.5°	66.4	30.9	12.9	7.7	4.1	1.0	0.5	0.0	0.0	0.0	0.0
40°	69.0	29.9	12.4	7.7	3.6	0.5	0.0	0.0	0.0	0.0	0.0
42.5°	74.6	27.8	12.9	7.2	3.6	0.5	0.0	0.0	0.0	0.0	0.0
45°	91.1	27.8	13.9	7.2	3.1	1.0	0.0	0.0	0.0	0.0	0.0
47.5°	158.0	28.8	13.4	7.2	3.1	1.0	0.0	0.0	0.0	0.0	0.0
50°	260.0	34.0	12.9	7.7	3.6	0.5	0.0	0.0	0.0	0.0	0.0
52.5°	301.6	41.2	12.9	8.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0
55°	289.3	50.4	12.9	8.8	5.7	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	263.0	47.9	13.9	10.3	7.2	0.0	0.0	0.0	0.0	0.0	0.0
58°	253.3	47.9	13.9	10.3	7.2	0.0	0.0	0.0	0.0	0.0	0.0
60°	198.7	48.9	16.0	11.3	7.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	147.7	49.9	18.0	12.9	7.7	0.5	0.0	0.0	0.0	0.0	0.0
65°	109.6	52.0	19.0	14.9	7.2	1.0	0.0	0.0	0.0	0.0	0.0
67.5°	87.5	53.5	20.6	16.5	8.2	2.1	0.5	0.0	0.0	0.0	0.0
70°	75.2	51.5	22.1	17.0	7.7	3.1	1.5	0.0	0.0	0.0	0.0
72.5°	66.9	48.4	25.2	16.5	8.2	3.1	1.5	0.0	0.0	0.0	0.0
75°	60.2	44.3	28.8	16.0	8.2	3.1	2.1	0.0	0.0	0.0	0.0
77.5°	45.3	38.6	28.3	15.4	7.7	3.1	2.1	0.0	0.0	0.0	0.0
80°	22.6	25.7	24.7	13.9	6.2	2.6	2.1	0.5	0.0	0.0	0.0
82.5°	9.3	9.8	12.4	10.3	5.1	2.1	2.1	0.5	0.0	0.0	0.0
85°	1.0	2.1	3.6	4.1	3.6	2.1	2.1	0.5	0.0	0.0	0.0
87.5°	0.0	0.5	2.1	3.1	2.6	1.5	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°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
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°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
2.5°	0.5	1.0	1.0	1.0	1.5	1.5	2.1	2.6	2.6	2.6	3.1
5°	0.0	0.0	0.5	0.5	1.0	1.5	2.1	3.1	3.6	3.6	4.1
7.5°	0.0	0.0	0.0	0.5	1.0	1.5	2.1	3.1	4.1	4.6	5.1
10°	0.0	0.0	0.0	0.0	0.5	1.0	2.1	3.6	5.1	6.2	7.2
12.5°	0.0	0.0	0.0	0.0	0.0	0.5	2.1	4.1	6.2	7.7	8.8
15°	0.0	0.0	0.0	0.0	0.0	0.5	2.1	4.1	7.7	9.3	11.3
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.1	4.6	8.8	11.3	15.4
20°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	4.6	9.8	13.9	23.2
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	4.6	10.8	18.0	42.7
25°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	4.6	12.4	26.8	71.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	5.1	14.9	37.6	104.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	5.1	18.5	51.0	145.2
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	5.1	21.6	64.3	197.7
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	25.7	85.4	248.1
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	31.9	94.2	290.8
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	30.4	102.4	339.7
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	27.8	114.3	416.4
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	27.8	151.3	586.3
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	34.0	235.8	896.2
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	43.8	361.9	1276.1
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	53.0	445.3	1496.4
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	63.8	445.8	1489.2
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	71.0	398.9	1344.0
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	70.5	386.1	1303.9
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	5.1	61.8	335.1	1138.1
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.1	8.2	54.0	240.4	943.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	4.1	9.3	49.4	174.5	708.3
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.1	10.8	47.4	123.5	492.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	6.2	12.4	43.8	88.5	324.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.2	15.4	41.2	69.5	195.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	6.2	19.6	36.0	56.6	105.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.2	21.1	29.9	41.2	63.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	5.7	19.0	21.6	18.0	21.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.1	11.3	4.6	4.6	7.2
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°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
2.5°	3.6	3.6	3.6	3.6	4.1	4.1	5.7	7.2	8.8	9.3
5°	4.6	5.1	5.7	5.7	5.7	6.2	7.2	8.2	9.8	10.3
7.5°	6.7	7.2	8.2	8.2	8.2	8.8	9.3	10.3	11.3	11.3
10°	8.8	10.3	10.8	11.3	11.8	11.8	11.8	12.4	12.9	12.4
12.5°	11.8	13.9	16.5	17.0	17.0	17.0	16.5	15.4	14.4	13.9
15°	16.5	22.6	30.9	34.0	32.4	28.8	25.2	19.6	17.0	16.0
17.5°	30.4	61.8	112.2	124.1	121.5	104.5	61.3	29.9	20.1	17.5
20°	81.8	199.7	329.4	360.8	377.3	312.5	180.7	69.5	24.7	19.0
22.5°	176.6	414.9	642.9	724.3	729.4	586.8	351.6	141.0	35.5	21.6
25°	284.1	663.5	974.4	1053.2	1054.7	904.4	562.1	228.6	54.0	26.8
27.5°	435.5	930.2	1278.1	1343.5	1342.5	1190.1	812.3	349.0	75.7	32.9
30°	590.4	1138.1	1478.4	1559.7	1567.4	1385.2	1021.3	491.6	98.8	39.6
32.5°	743.8	1292.0	1661.1	1769.2	1762.5	1557.7	1167.0	608.4	138.5	46.8
35°	864.8	1423.3	1863.4	1996.2	2001.4	1747.1	1296.2	721.7	172.4	60.2
37.5°	968.3	1592.7	2132.6	2286.0	2292.7	1982.8	1431.5	832.9	201.8	66.4
40°	1095.9	1870.6	2578.4	2838.9	2839.9	2422.5	1675.0	957.5	241.4	69.0
42.5°	1382.6	2466.2	3449.4	3823.6	3856.1	3334.6	2228.4	1227.7	303.7	74.6
45°	1956.1	3251.2	4560.2	4991.1	5032.3	4469.6	3177.1	1851.6	440.6	91.1
47.5°	2638.1	3933.8	5205.7	5620.6	5647.9	5006.5	3812.3	2573.3	750.0	158.0
50°	3057.7	4186.5	5443.1	5838.9	5843.5	5183.1	4011.5	2948.0	1068.6	260.0
52.5°	3187.9	4219.0	5452.3	5931.0	5944.4	5162.5	4038.8	3023.7	1201.4	301.6
55°	3134.9	4199.9	5550.1	6107.1	6121.5	5246.4	4020.3	2940.8	1139.2	289.3
57.5°	3013.9	4274.0	5710.7	6316.1	6316.1	5401.4	4088.7	2801.8	986.8	263.0
58°	2995.9	4292.6	5719.5	6327.4	6322.8	5411.1	4117.0	2781.8	953.3	253.3
60°	2971.2	4349.7	5654.6	6160.1	6146.7	5342.2	4168.5	2763.7	791.2	198.7
62.5°	2935.2	4221.0	5182.1	5668.0	5633.5	4858.8	4020.8	2658.2	590.4	147.7
65°	2750.4	3745.9	4319.9	4656.5	4645.7	3997.1	3460.7	2381.3	425.2	109.6
67.5°	2318.5	2932.6	3489.5	3895.2	3897.7	3263.1	2706.6	1903.1	289.3	87.5
70°	1630.8	2163.0	2966.6	3418.0	3438.6	2737.0	2005.0	1268.4	191.0	75.2
72.5°	973.9	1633.8	2466.7	2809.5	2798.7	2271.1	1487.7	756.2	116.3	66.9
75°	472.0	976.5	1246.7	1446.0	1437.7	1136.1	792.7	370.6	84.9	60.2
77.5°	128.2	300.1	482.8	628.0	645.0	455.0	260.0	99.3	53.0	45.3
80°	43.2	92.7	157.5	214.1	219.8	196.6	97.8	35.0	23.2	22.6
82.5°	16.5	22.6	28.8	25.7	25.7	26.8	21.1	14.9	10.8	9.3
85°	0.0	0.0	0.5	1.0	1.0	1.5	1.5	1.5	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

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: SP1-2407-184-9

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

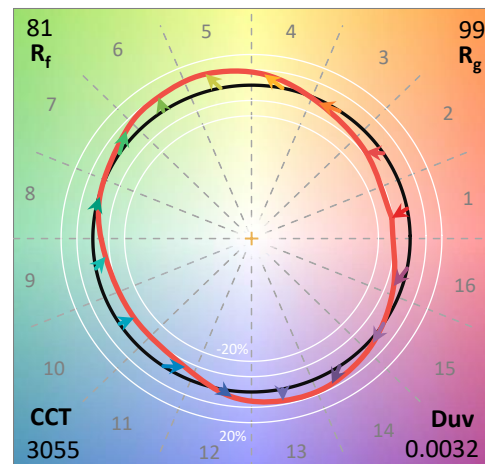
Test Information

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

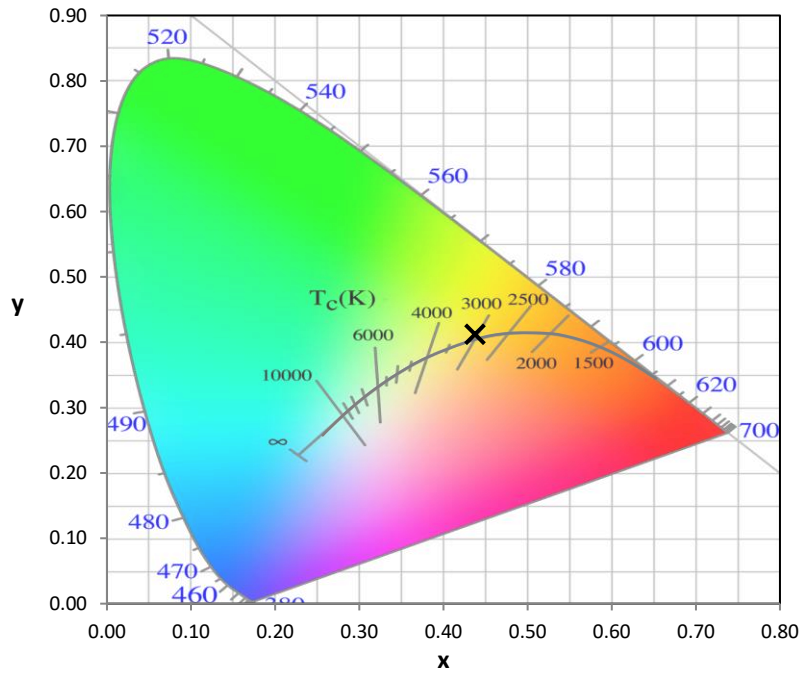
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-9

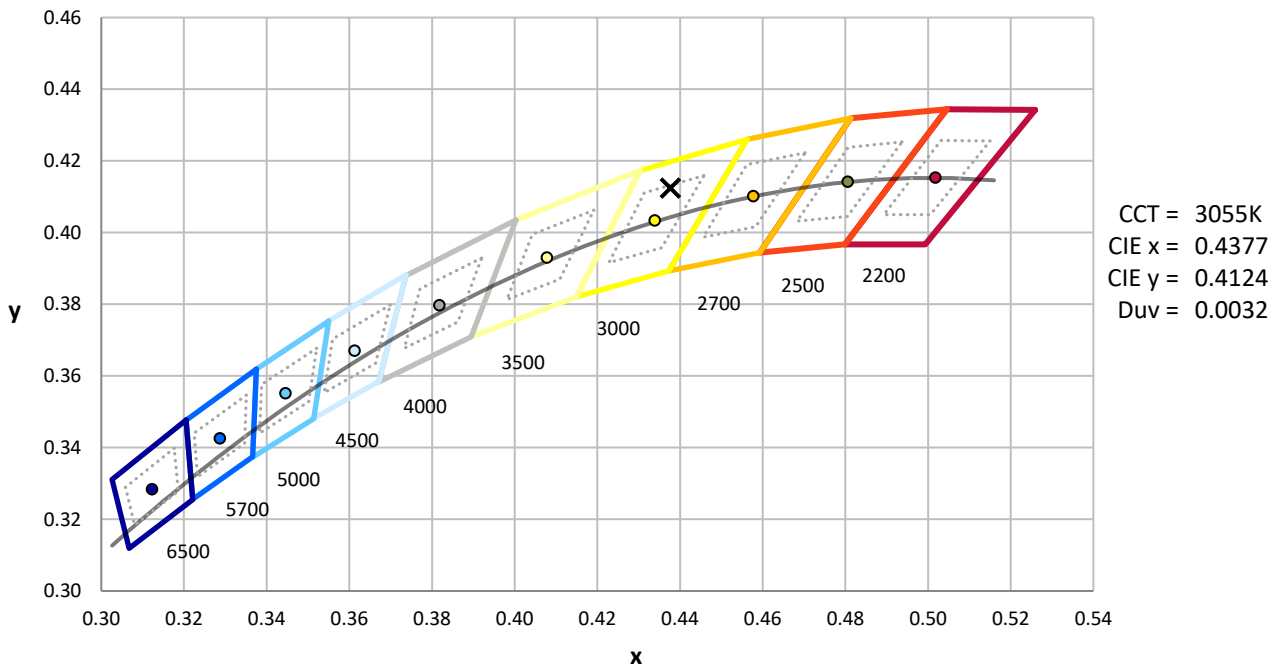
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



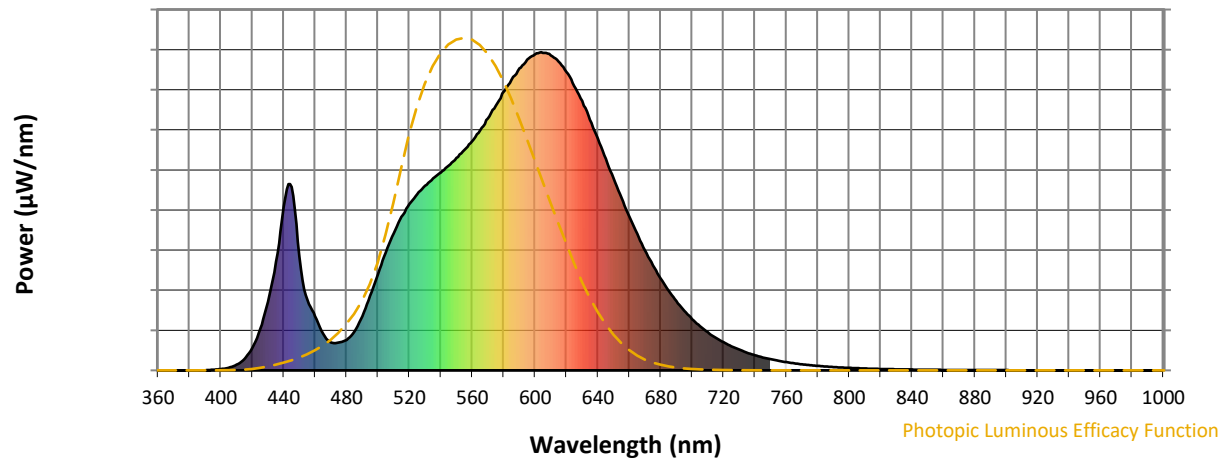
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-9

Photopic Flux vs. Wavelength

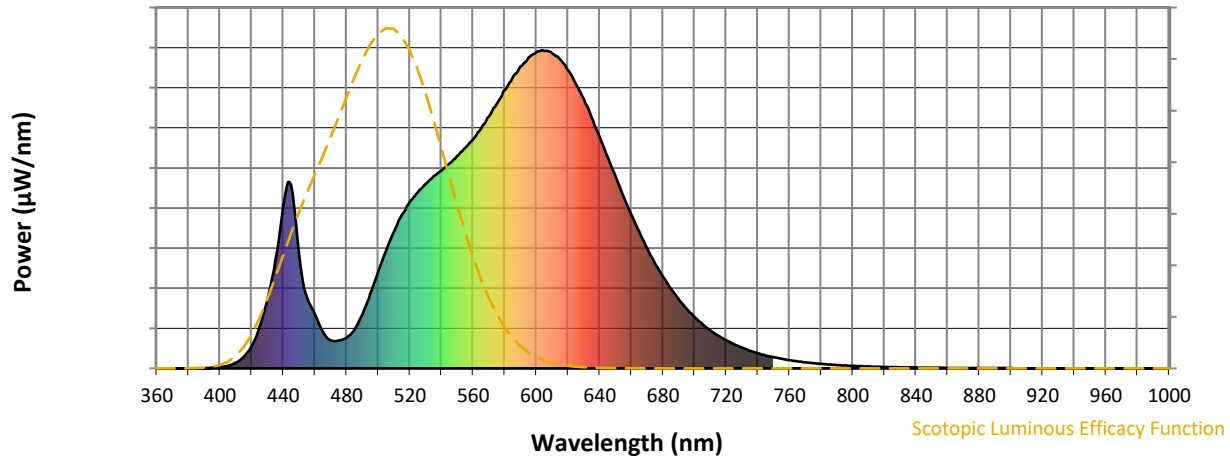


Photopic Lumens: NR

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			

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Scotopic Flux vs. Wavelength



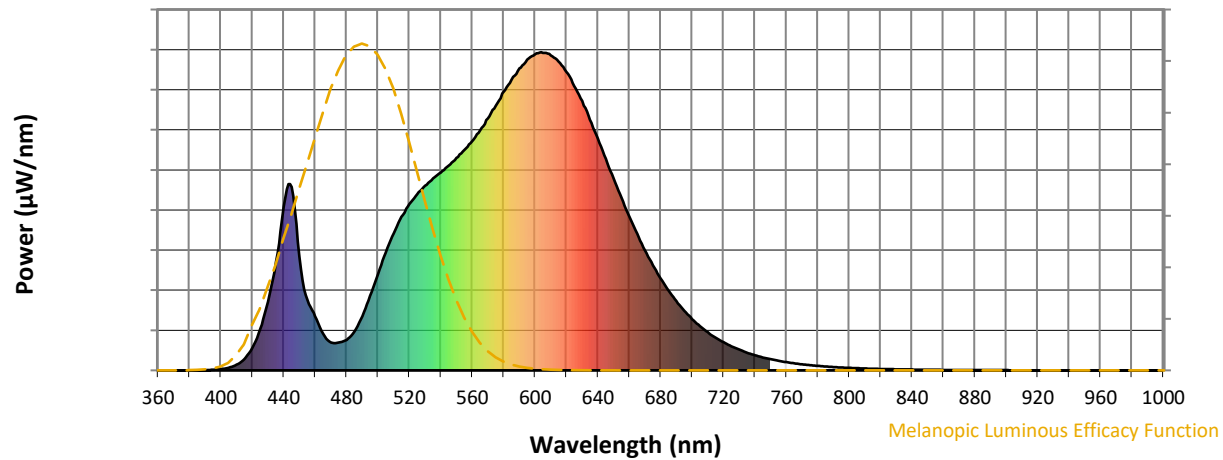
Scotopic Lumens: NR

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

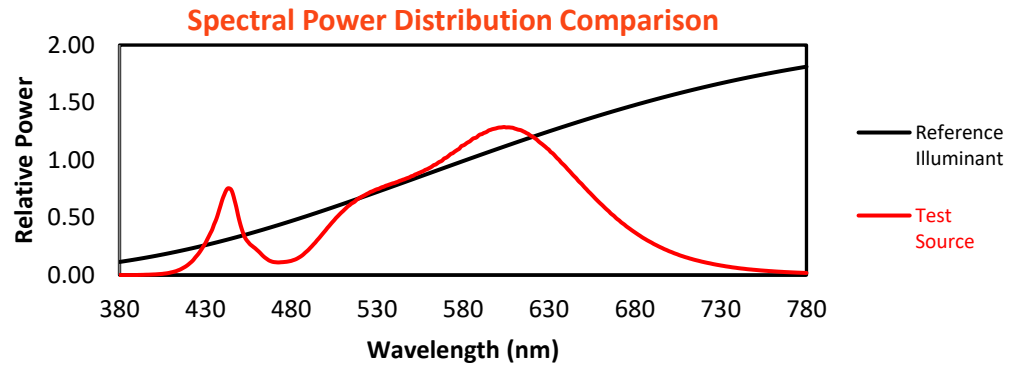
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	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

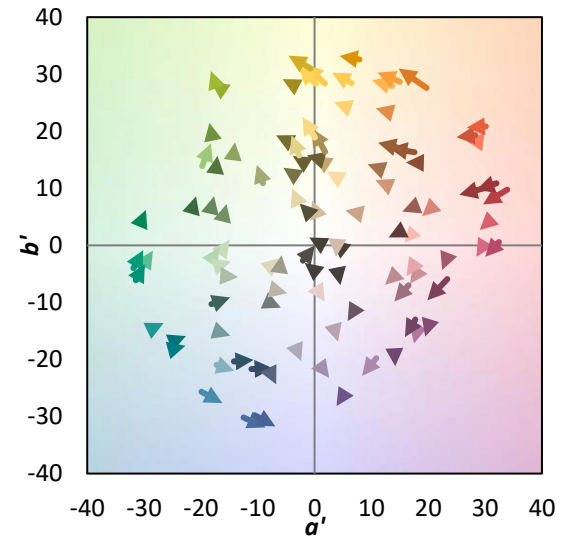
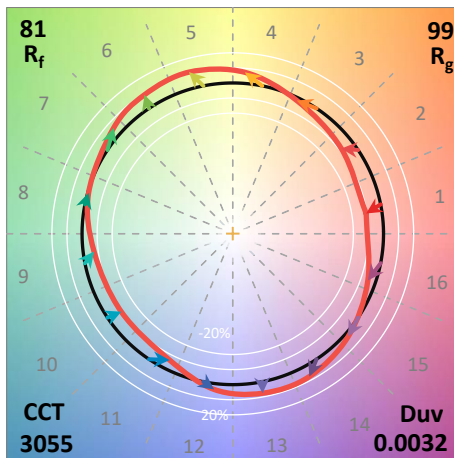
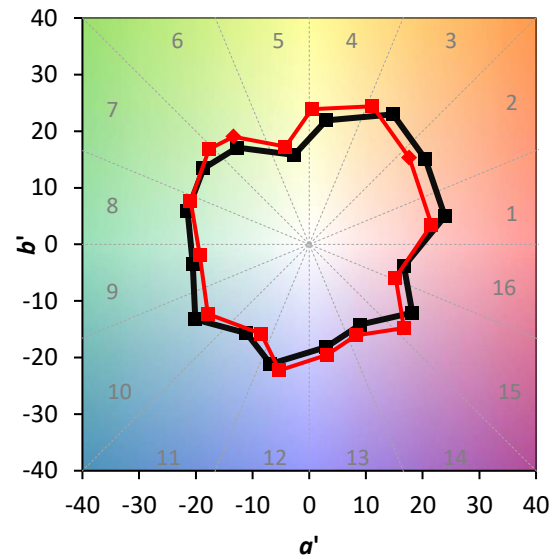
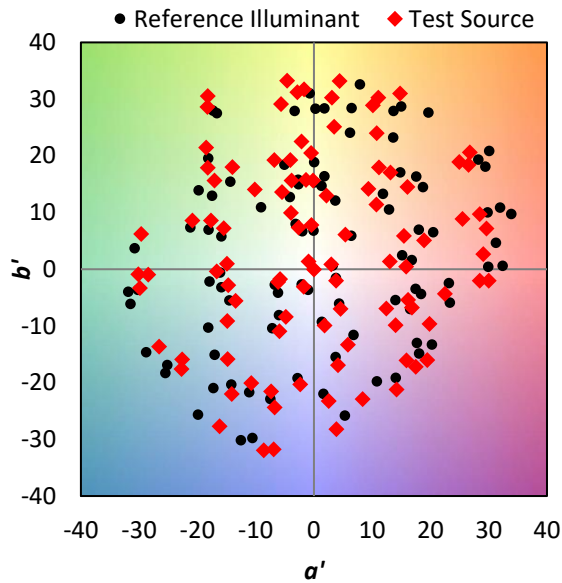
TM-30-18

Summary

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

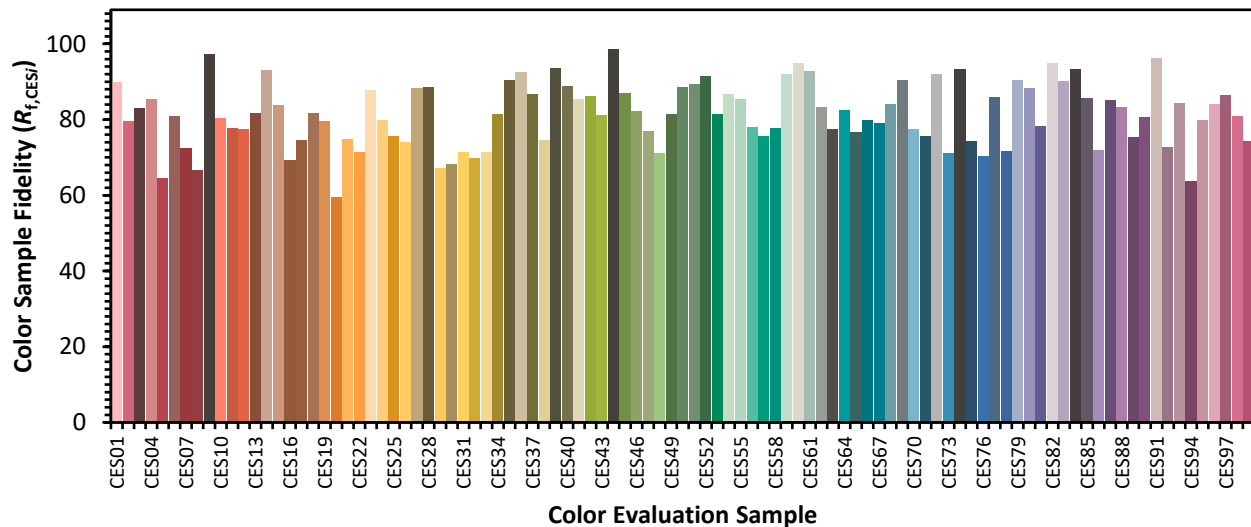


Color Vector Graphics

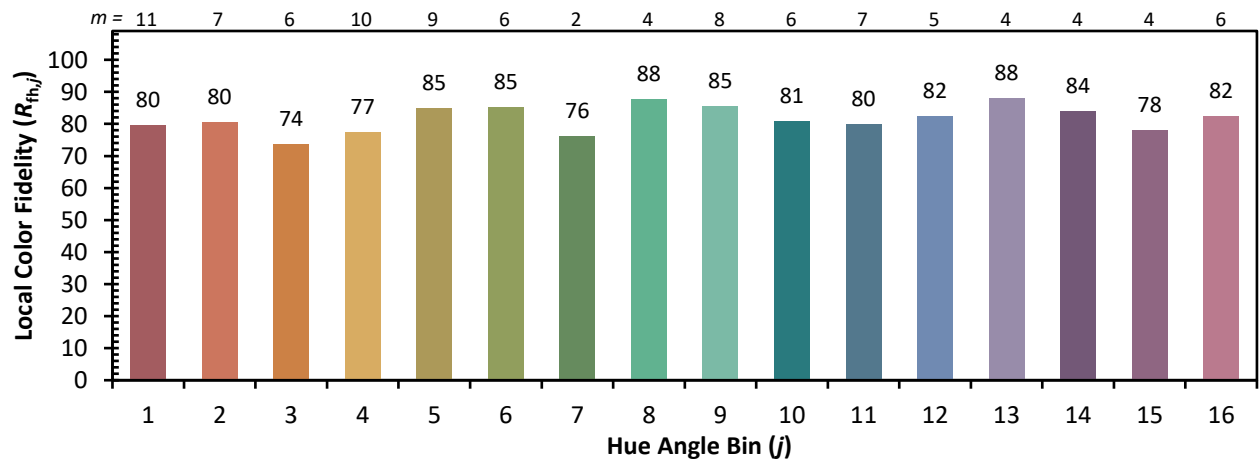
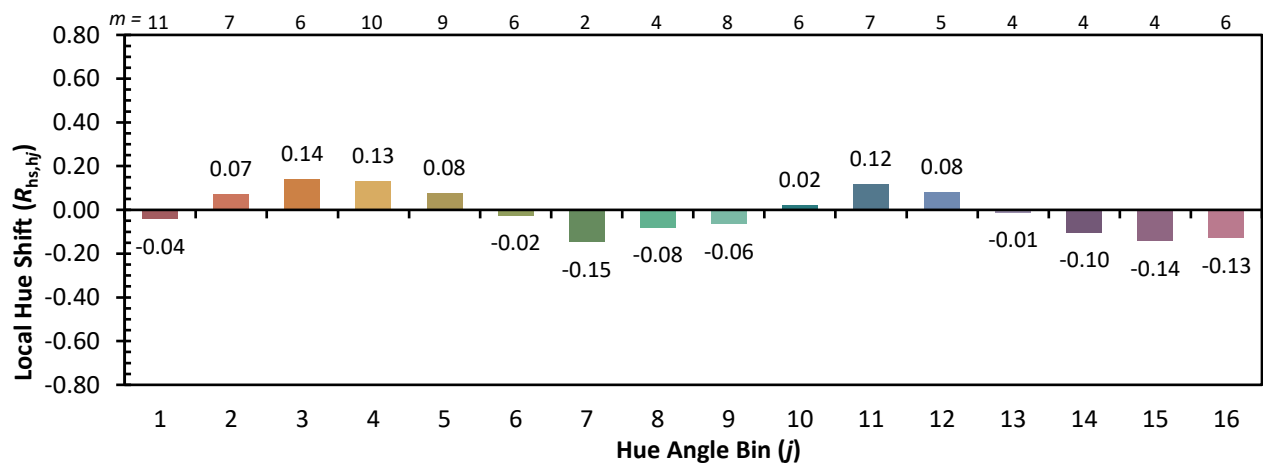
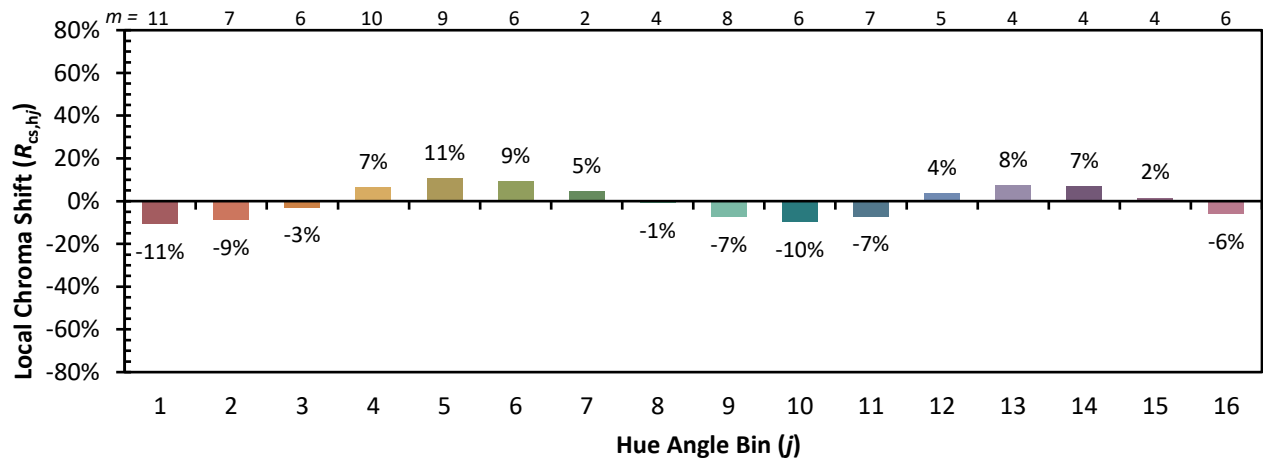


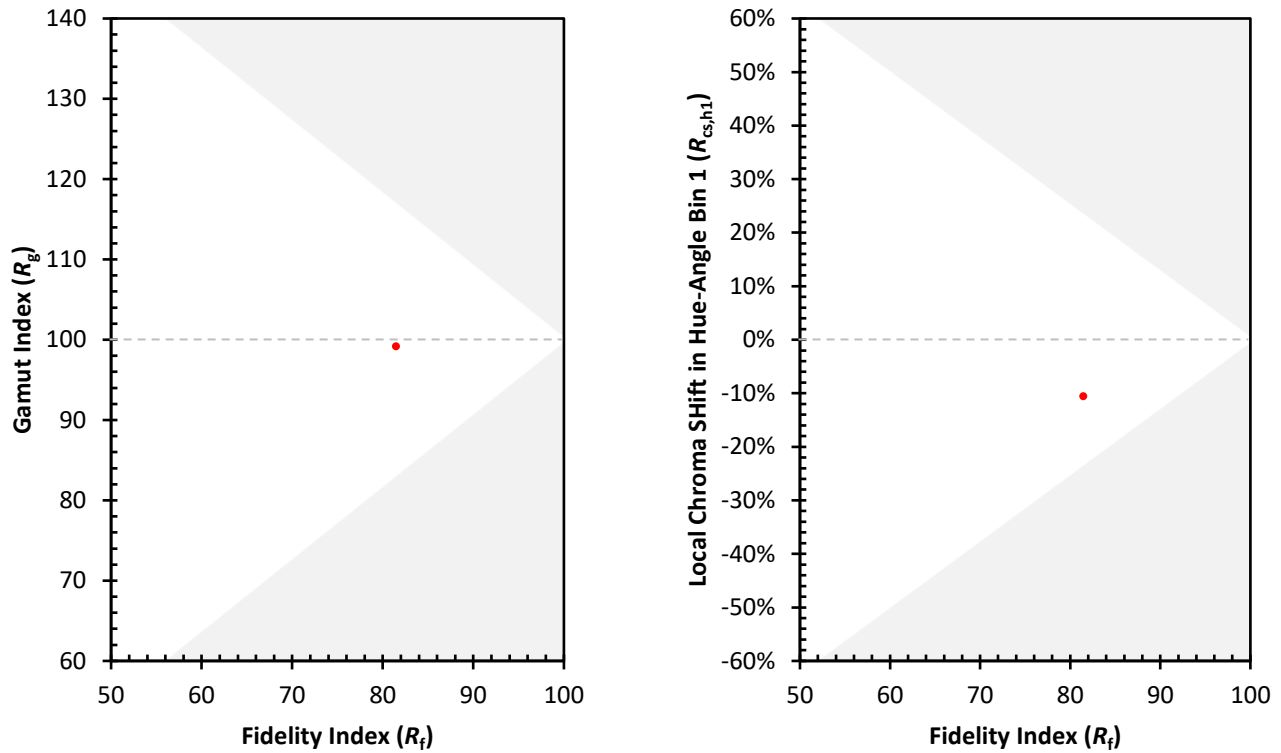
Individual Sample Fidelity Index ($R_{f,i}$)

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)