

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: P991286

Luminaire Tested: **GPC-SA2B-827-U-RBC**

Issue Date: 07/03/2025



Test Information

Test Method: LM-79-08
Report Number: P991286
Test Lab: INNOVATION CENTER(G1)
Issue Date: 07/03/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-SA2B-827-U-RBC
Description: GALLEON PEDESTRAIAN COMPANION 800mA 2xLight Square PACKAGE 80CRI
2700K FIXTURE w/ RIGHT CORNER BACKLIGHT CONTROL
Light Source: (28) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5722.8 lumens
Efficiency: N/A
Efficacy: 79.3 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: 24 FT

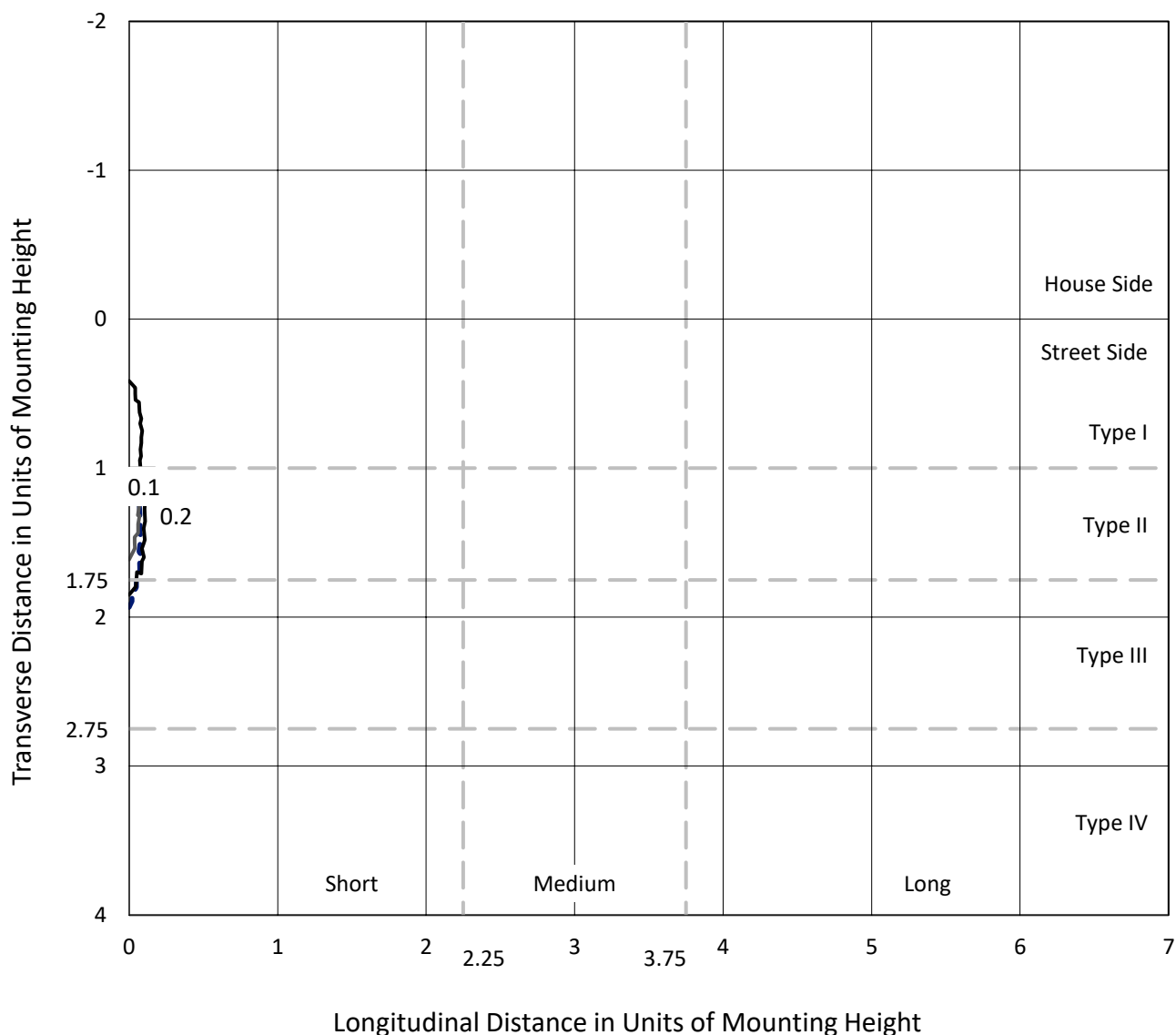
REPORT NUMBER: P991286

CATALOG NUMBER: GPC-SA2B-827-U-RBC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

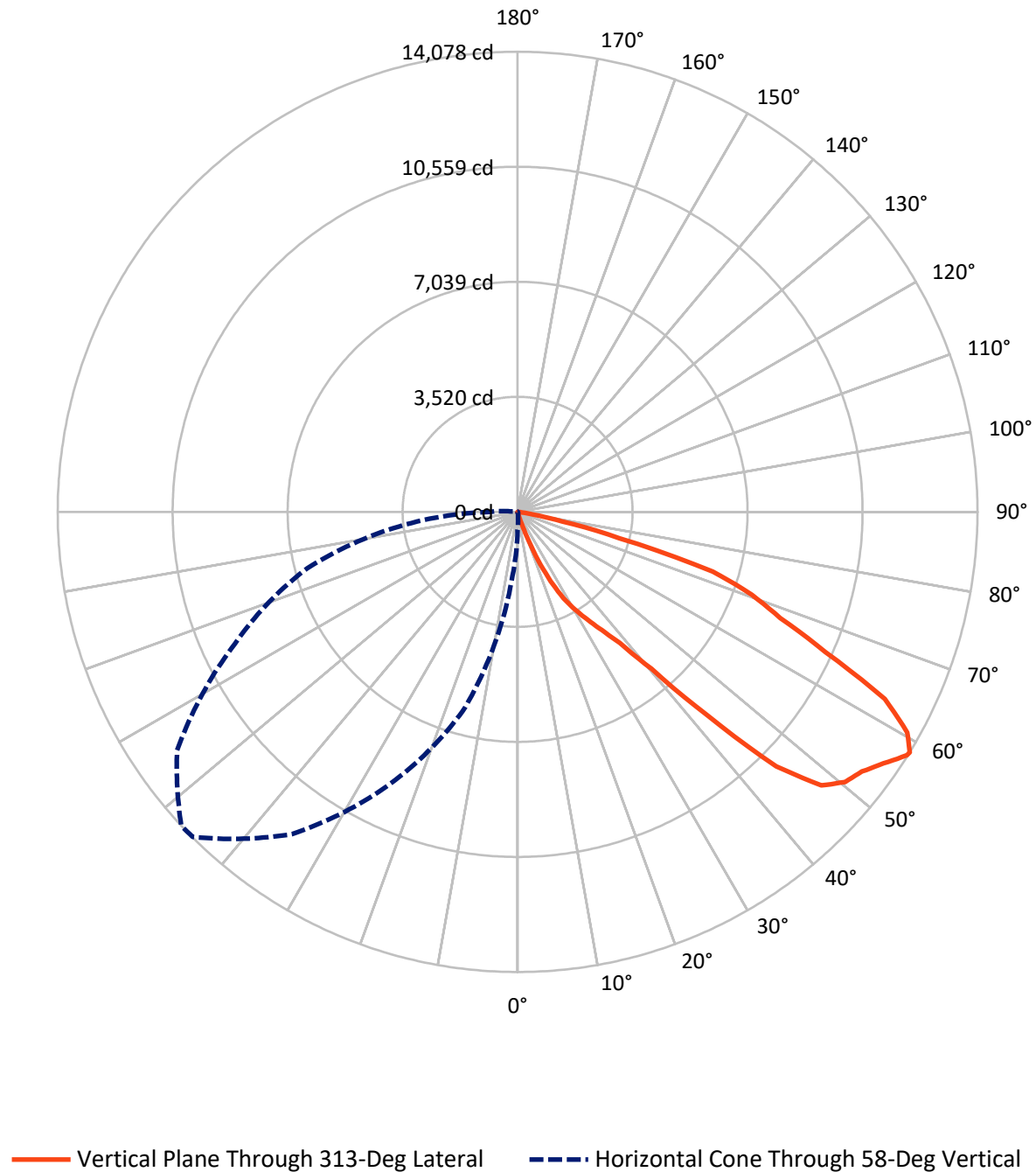


Based on 20 foot mounting height. Maximum calculated value = 0.4 fc

Type III - Short - N/A

REPORT NUMBER: P991286
CATALOG NUMBER: GPC-SA2B-827-U-RBC

Luminous Intensity Polar Plot



REPORT NUMBER: P991286

CATALOG NUMBER: GPC-SA2B-827-U-RBC

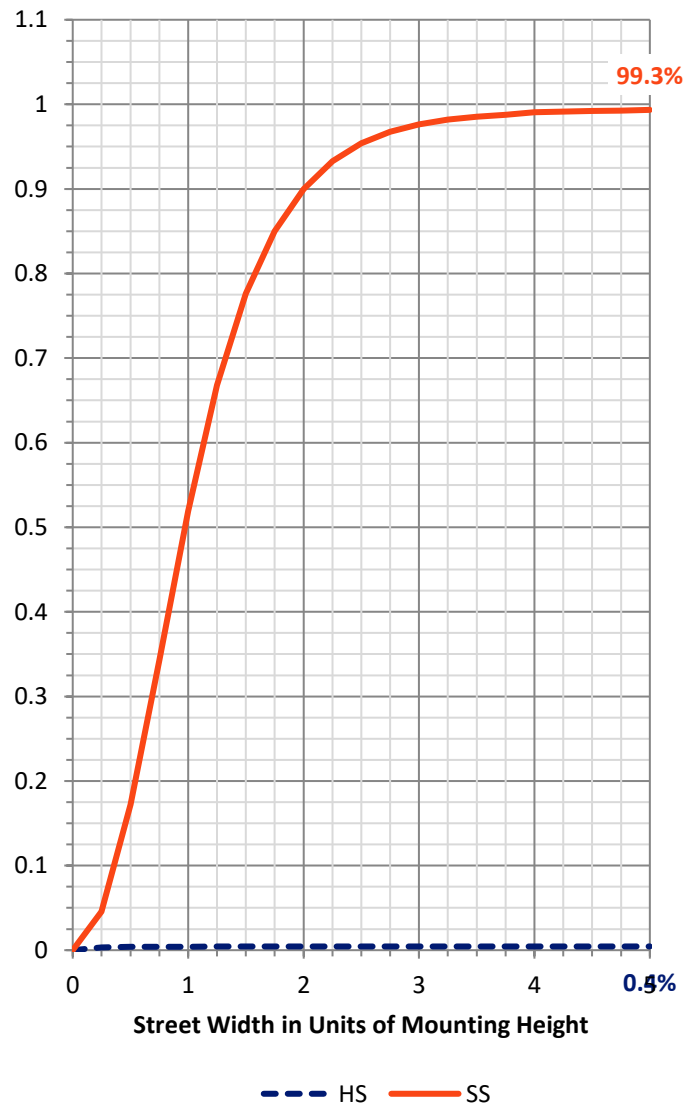
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25.6	0.0	25.6
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	5697.2	0.0	5697.2
	% Fixture	99.6	0.0	99.6
Total	Lumens	5722.8	0.0	5722.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.8	0.0
10°-20°	10.0	0.2
20°-30°	144.5	2.5
30°-40°	415.5	7.3
40°-50°	1183.5	20.7
50°-60°	1861.6	32.5
60°-70°	1587.6	27.7
70°-80°	506.4	8.8
80°-90°	12.9	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°	5722.8	100.0
0°-180°	5722.8	100.0



REPORT NUMBER: P991286

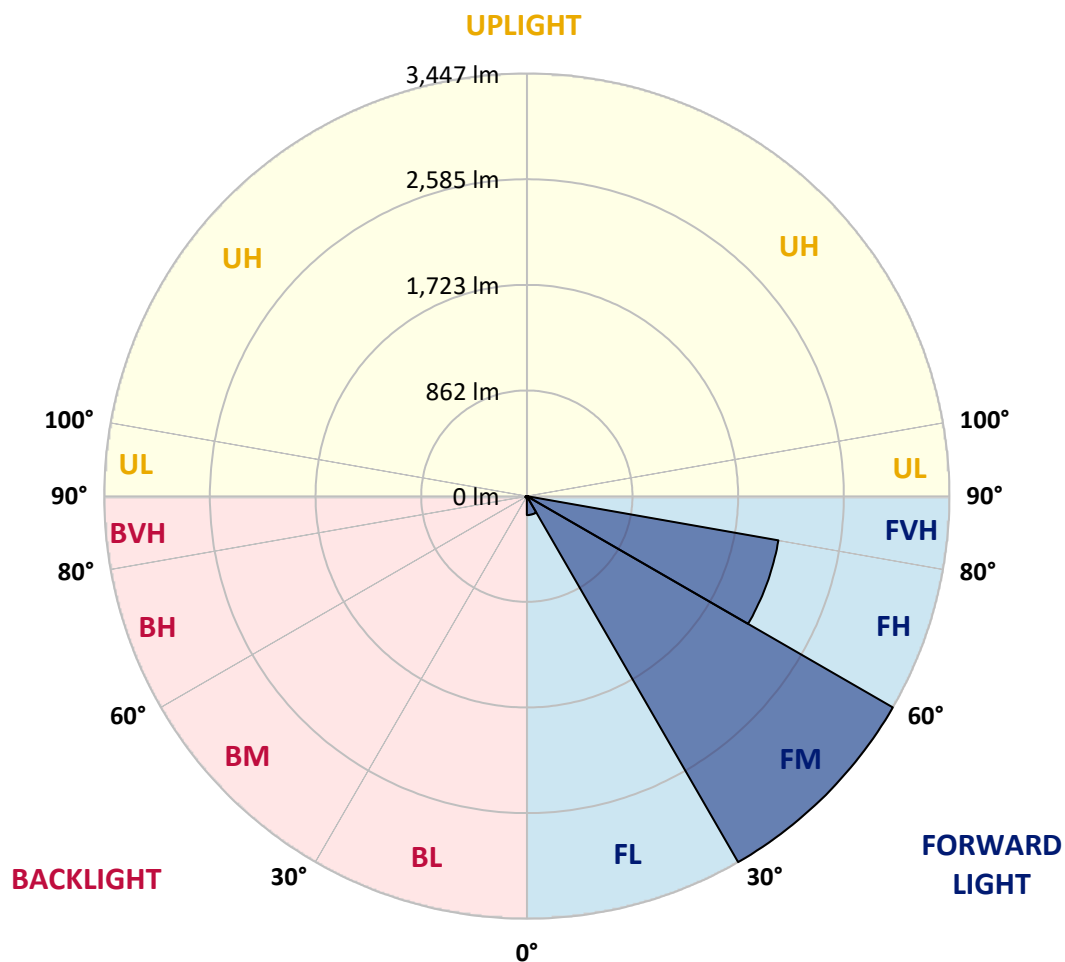
CATALOG NUMBER: GPC-SA2B-827-U-RBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	154.3	2.7			
FM	(30°-60°)	3446.9	60.2			
FH	(60°-80°)	2083.8	36.4			G2/5000
FVH	(80°-90°)	12.2	0.2			G1/100
BL	(0°-30°)	1.0	0.0	B0/110		
BM	(30°-60°)	13.7	0.2	B0/220		
BH	(60°-80°)	10.2	0.2	B0/110		G0/110
BVH	(80°-90°)	0.7	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





REPORT NUMBER: P991286

CATALOG NUMBER: GPC-SA2B-827-U-RBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
2.5°	20.6	21.8	22.9	21.8	19.5	14.9	14.9	11.5	8.0	4.6	3.4
5°	22.9	22.9	22.9	21.8	19.5	14.9	13.7	10.3	6.9	4.6	2.3
7.5°	25.2	25.2	24.1	21.8	18.3	14.9	13.7	10.3	6.9	3.4	0.0
10°	27.5	27.5	25.2	22.9	18.3	13.7	12.6	9.2	5.7	2.3	0.0
12.5°	30.9	29.8	26.3	22.9	18.3	12.6	12.6	9.2	4.6	1.1	0.0
15°	35.5	32.1	27.5	22.9	17.2	12.6	11.5	8.0	3.4	0.0	0.0
17.5°	38.9	35.5	28.6	21.8	16.0	11.5	10.3	6.9	3.4	0.0	0.0
20°	42.4	36.6	28.6	21.8	16.0	10.3	9.2	5.7	1.1	0.0	0.0
22.5°	48.1	38.9	28.6	21.8	14.9	9.2	8.0	4.6	0.0	0.0	0.0
25°	59.6	41.2	28.6	20.6	13.7	8.0	6.9	2.3	0.0	0.0	0.0
27.5°	73.3	44.7	28.6	19.5	12.6	6.9	5.7	1.1	0.0	0.0	0.0
30°	88.2	48.1	28.6	19.5	11.5	5.7	4.6	0.0	0.0	0.0	0.0
32.5°	104.2	52.7	28.6	18.3	10.3	4.6	3.4	0.0	0.0	0.0	0.0
35°	134.0	59.6	28.6	18.3	9.2	3.4	2.3	0.0	0.0	0.0	0.0
37.5°	147.7	68.7	28.6	17.2	9.2	2.3	1.1	0.0	0.0	0.0	0.0
40°	153.5	66.4	27.5	17.2	8.0	1.1	0.0	0.0	0.0	0.0	0.0
42.5°	166.1	61.8	28.6	16.0	8.0	1.1	0.0	0.0	0.0	0.0	0.0
45°	202.7	61.8	30.9	16.0	6.9	2.3	0.0	0.0	0.0	0.0	0.0
47.5°	351.6	64.1	29.8	16.0	6.9	2.3	0.0	0.0	0.0	0.0	0.0
50°	578.4	75.6	28.6	17.2	8.0	1.1	0.0	0.0	0.0	0.0	0.0
52.5°	671.1	91.6	28.6	18.3	10.3	0.0	0.0	0.0	0.0	0.0	0.0
55°	643.7	112.2	28.6	19.5	12.6	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	585.2	106.5	30.9	22.9	16.0	0.0	0.0	0.0	0.0	0.0	0.0
58°	563.5	106.5	30.9	22.9	16.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	442.1	108.8	35.5	25.2	17.2	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	328.7	111.1	40.1	28.6	17.2	1.1	0.0	0.0	0.0	0.0	0.0
65°	243.9	115.7	42.4	33.2	16.0	2.3	0.0	0.0	0.0	0.0	0.0
67.5°	194.7	119.1	45.8	36.6	18.3	4.6	1.1	0.0	0.0	0.0	0.0
70°	167.2	114.5	49.2	37.8	17.2	6.9	3.4	0.0	0.0	0.0	0.0
72.5°	148.9	107.7	56.1	36.6	18.3	6.9	3.4	0.0	0.0	0.0	0.0
75°	134.0	98.5	64.1	35.5	18.3	6.9	4.6	0.0	0.0	0.0	0.0
77.5°	100.8	85.9	63.0	34.4	17.2	6.9	4.6	0.0	0.0	0.0	0.0
80°	50.4	57.3	55.0	30.9	13.7	5.7	4.6	1.1	0.0	0.0	0.0
82.5°	20.6	21.8	27.5	22.9	11.5	4.6	4.6	1.1	0.0	0.0	0.0
85°	2.3	4.6	8.0	9.2	8.0	4.6	4.6	1.1	0.0	0.0	0.0
87.5°	0.0	1.1	4.6	6.9	5.7	3.4	2.3	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



REPORT NUMBER: P991286

CATALOG NUMBER: GPC-SA2B-827-U-RBC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
2.5°	2.3	2.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
5°	1.1	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



REPORT NUMBER: P991286

CATALOG NUMBER: GPC-SA2B-827-U-RBC

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
2.5°	1.1	2.3	2.3	2.3	3.4	3.4	4.6	5.7	5.7	5.7	6.9
5°	0.0	0.0	1.1	1.1	2.3	3.4	4.6	6.9	8.0	8.0	9.2
7.5°	0.0	0.0	0.0	1.1	2.3	3.4	4.6	6.9	9.2	10.3	11.5
10°	0.0	0.0	0.0	0.0	1.1	2.3	4.6	8.0	11.5	13.7	16.0
12.5°	0.0	0.0	0.0	0.0	0.0	1.1	4.6	9.2	13.7	17.2	19.5
15°	0.0	0.0	0.0	0.0	0.0	1.1	4.6	9.2	17.2	20.6	25.2
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.6	10.3	19.5	25.2	34.4
20°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	10.3	21.8	30.9	51.5
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	10.3	24.1	40.1	95.1
25°	0.0	0.0	0.0	0.0	0.0	0.0	2.3	10.3	27.5	59.6	158.1
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.3	11.5	33.2	83.6	231.4
30°	0.0	0.0	0.0	0.0	0.0	0.0	2.3	11.5	41.2	113.4	323.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	11.5	48.1	143.2	439.8
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3	57.3	190.1	552.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3	71.0	209.6	647.1
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	67.6	227.9	755.9
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3	61.8	254.3	926.5
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3	61.8	336.7	1304.5
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	75.6	524.5	1994.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	97.4	805.1	2839.2
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	118.0	990.7	3329.4
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	142.0	991.8	3313.4
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	158.1	887.6	2990.4
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	156.9	859.0	2901.1
60°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	11.5	137.4	745.6	2532.3
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.6	18.3	120.3	534.9	2099.3
65°	0.0	0.0	0.0	0.0	0.0	0.0	9.2	20.6	109.9	388.3	1575.9
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	11.5	24.1	105.4	274.9	1096.1
70°	0.0	0.0	0.0	0.0	0.0	0.0	13.7	27.5	97.4	197.0	721.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	13.7	34.4	91.6	154.6	435.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	13.7	43.5	80.2	126.0	233.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	13.7	47.0	66.4	91.6	142.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	12.6	42.4	48.1	40.1	48.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.9	25.2	10.3	10.3	16.0
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

REPORT NUMBER: P991286

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	313°	315°	325°	335°	345°	355°	360°
0°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
2.5°	8.0	8.0	8.0	8.0	9.2	9.2	12.6	16.0	19.5	20.6
5°	10.3	11.5	12.6	12.6	12.6	13.7	16.0	18.3	21.8	22.9
7.5°	14.9	16.0	18.3	18.3	18.3	19.5	20.6	22.9	25.2	25.2
10°	19.5	22.9	24.1	25.2	26.3	26.3	26.3	27.5	28.6	27.5
12.5°	26.3	30.9	36.6	37.8	37.8	37.8	36.6	34.4	32.1	30.9
15°	36.6	50.4	68.7	75.6	72.2	64.1	56.1	43.5	37.8	35.5
17.5°	67.6	137.4	249.7	276.0	270.3	232.5	136.3	66.4	44.7	38.9
20°	182.1	444.4	733.0	802.9	839.5	695.2	402.0	154.6	55.0	42.4
22.5°	392.8	923.1	1430.5	1611.4	1622.9	1305.6	782.2	313.8	79.0	48.1
25°	632.2	1476.3	2168.1	2343.3	2346.7	2012.3	1250.7	508.5	120.3	59.6
27.5°	968.9	2069.6	2843.8	2989.2	2986.9	2647.9	1807.3	776.5	168.4	73.3
30°	1313.7	2532.3	3289.3	3470.3	3487.4	3082.0	2272.3	1093.8	219.9	88.2
32.5°	1655.0	2874.7	3695.9	3936.4	3921.5	3465.7	2596.4	1353.7	308.1	104.2
35°	1924.1	3166.8	4146.0	4441.5	4452.9	3887.2	2883.9	1605.7	383.7	134.0
37.5°	2154.3	3543.6	4745.0	5086.3	5101.2	4411.7	3185.1	1853.1	449.0	147.7
40°	2438.3	4162.0	5736.8	6316.3	6318.6	5389.8	3726.8	2130.3	537.1	153.5
42.5°	3076.3	5487.1	7674.7	8507.3	8579.5	7419.3	4958.0	2731.5	675.7	166.1
45°	4352.2	7233.7	10146.2	11104.9	11196.5	9944.7	7068.8	4119.7	980.4	202.7
47.5°	5869.7	8752.4	11582.4	12505.6	12566.3	11139.2	8482.1	5725.4	1668.7	351.6
50°	6803.1	9314.7	12110.4	12991.2	13001.5	11532.1	8925.3	6559.1	2377.6	578.4
52.5°	7092.9	9386.9	12131.0	13196.2	13226.0	11486.2	8986.0	6727.5	2673.1	671.1
55°	6974.9	9344.5	12348.7	13587.9	13619.9	11672.9	8944.8	6543.1	2534.6	643.7
57.5°	6705.7	9509.4	12706.0	14052.9	14052.9	12017.7	9097.1	6233.9	2195.5	585.2
58°	6665.7	9550.7	12725.5	14078.1	14067.8	12039.4	9160.1	6189.2	2121.1	563.5
60°	6610.7	9677.8	12581.1	13705.8	13676.1	11886.0	9274.7	6149.1	1760.3	442.1
62.5°	6530.5	9391.5	11529.8	12610.9	12534.2	10810.5	8946.0	5914.3	1313.7	328.7
65°	6119.4	8334.4	9611.4	10360.4	10336.4	8893.3	7699.9	5298.2	946.0	243.9
67.5°	5158.4	6524.8	7764.0	8666.5	8672.2	7260.1	6022.0	4234.2	643.7	194.7
70°	3628.3	4812.6	6600.4	7604.8	7650.6	6089.6	4461.0	2822.0	424.9	167.2
72.5°	2166.9	3635.2	5488.3	6251.1	6227.0	5053.1	3309.9	1682.4	258.8	148.9
75°	1050.2	2172.6	2773.9	3217.2	3198.8	2527.7	1763.8	824.6	189.0	134.0
77.5°	285.2	667.7	1074.3	1397.3	1435.1	1012.4	578.4	221.0	118.0	100.8
80°	96.2	206.2	350.5	476.4	489.0	437.5	217.6	77.9	51.5	50.4
82.5°	36.6	50.4	64.1	57.3	57.3	59.6	47.0	33.2	24.1	20.6
85°	0.0	0.0	1.1	2.3	2.3	3.4	3.4	3.4	2.3	2.3
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: SP1-2407-184-8

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-827-U-5WQ

Data in this report applies to families of products including GSS-SB1A-827-U-5WQ

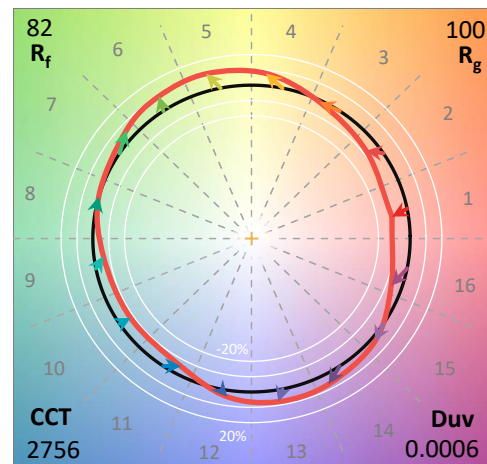
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-8
 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-827-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K): 2756
 CIE u' : 0.2599
 CIE v' : 0.5271
 Duv: 0.0006
 CIE x: 0.4563
 CIE y: 0.4112
 CIE z: 0.1325
 Peak Wavelength (nm): 609
 Dominant Wavelength (nm): 583
 Purity: 60.41121
 R_f: 82.2
 R_g: 99.9

CRI (Ra): 82.9
 R1: 81.6
 R2: 88.8
 R3: 96.0
 R4: 83.4
 R5: 81.4
 R6: 87.0
 R7: 84.0
 R8: 60.8
 R9: 10.8
 R10: 74.8
 R11: 84.3
 R12: 72.1
 R13: 82.9
 R14: 97.3
 R15: 73.7



Test Conditions

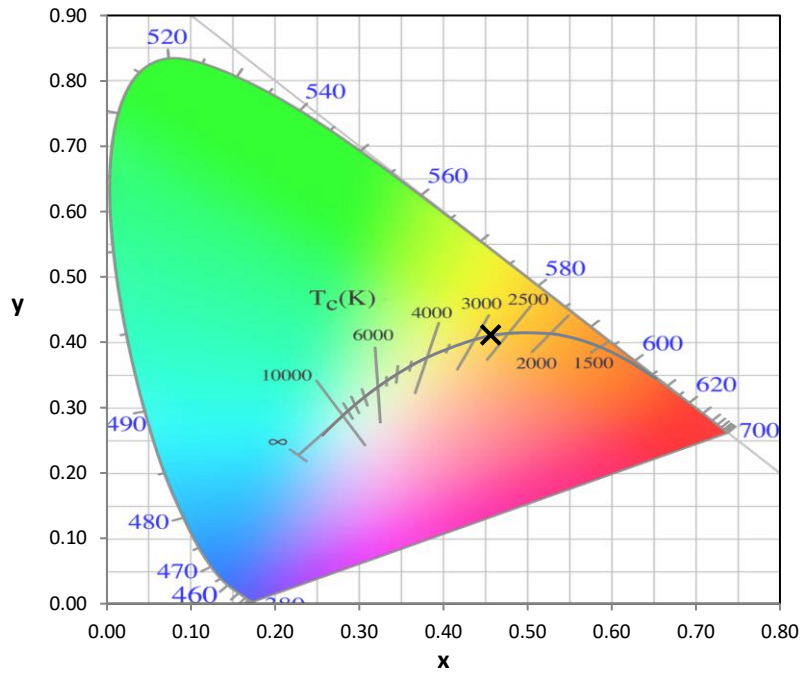
Stabilization Time: 29M
 Operation Time: 1H 29M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-8

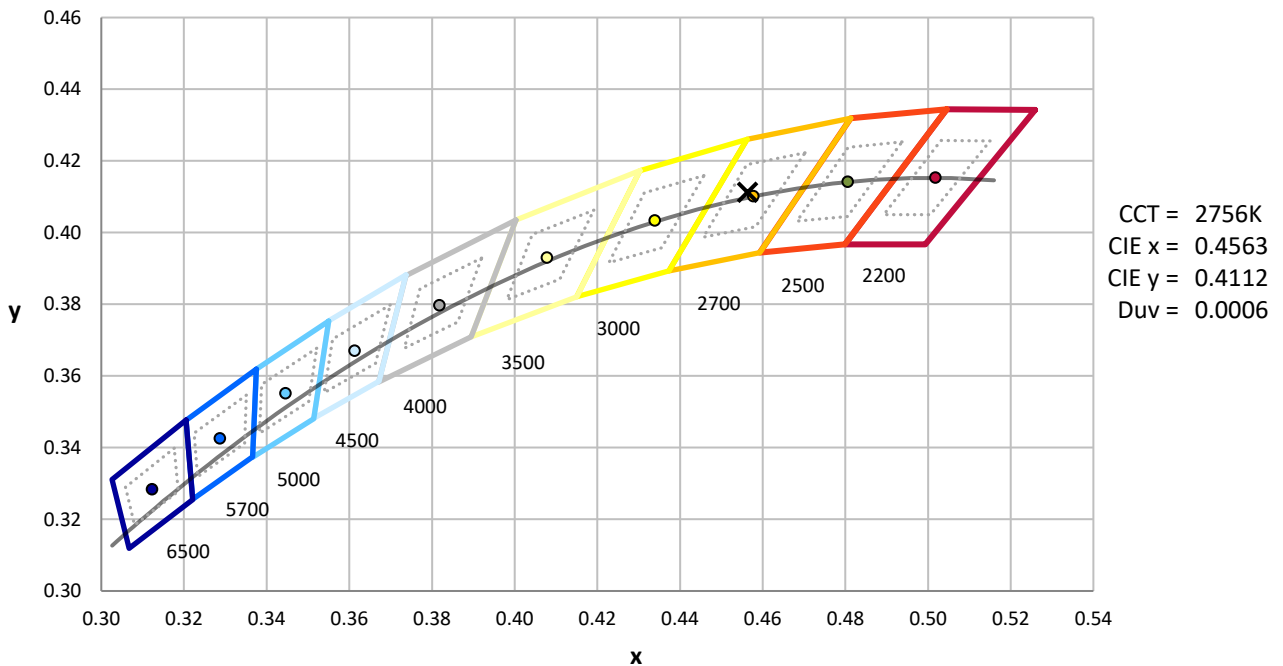
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-8

CIE 1931 Chromaticity Diagram

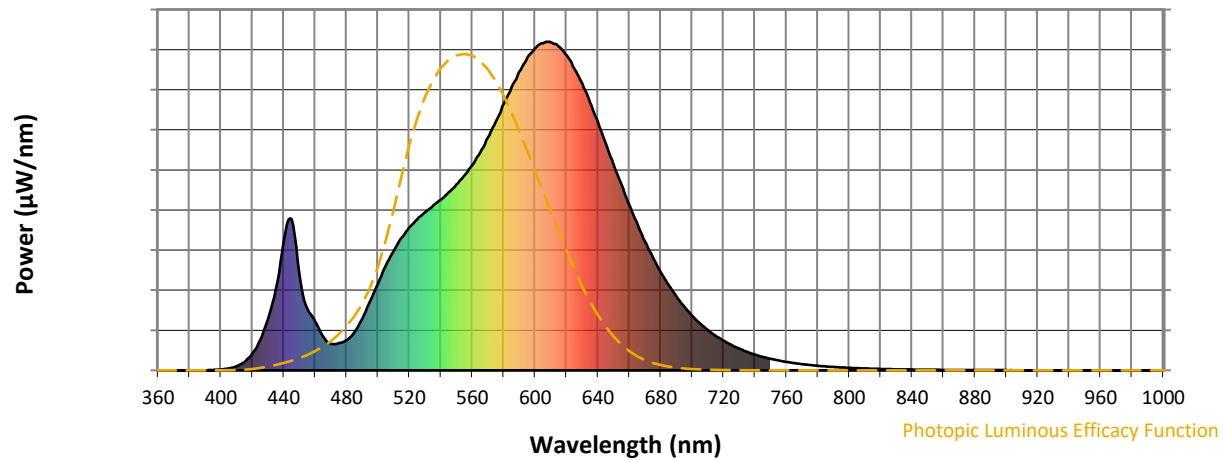


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



REPORT NUMBER: SP1-2407-184-8

Photopic Flux vs. Wavelength

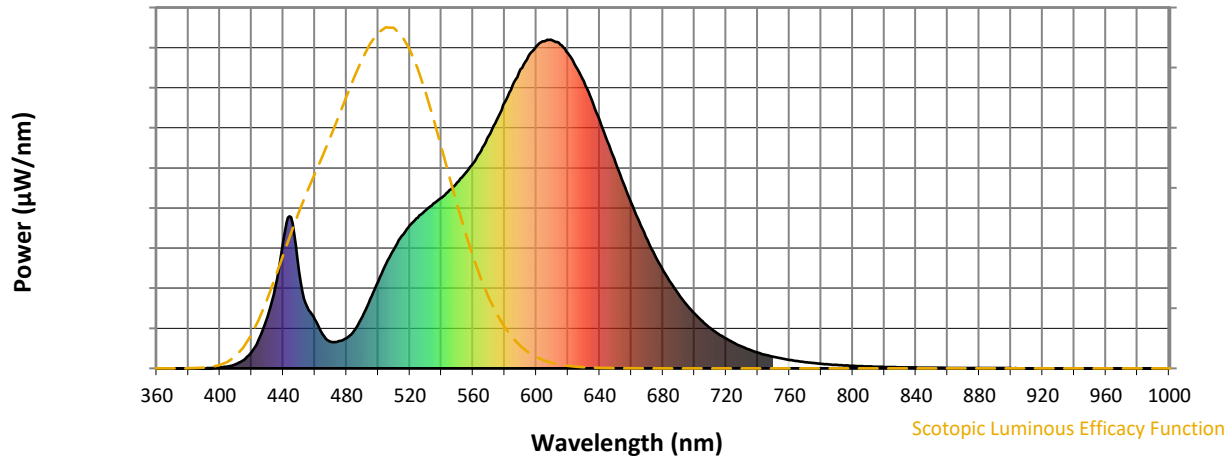


Photopic Lumens: NR

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

Scotopic Flux vs. Wavelength



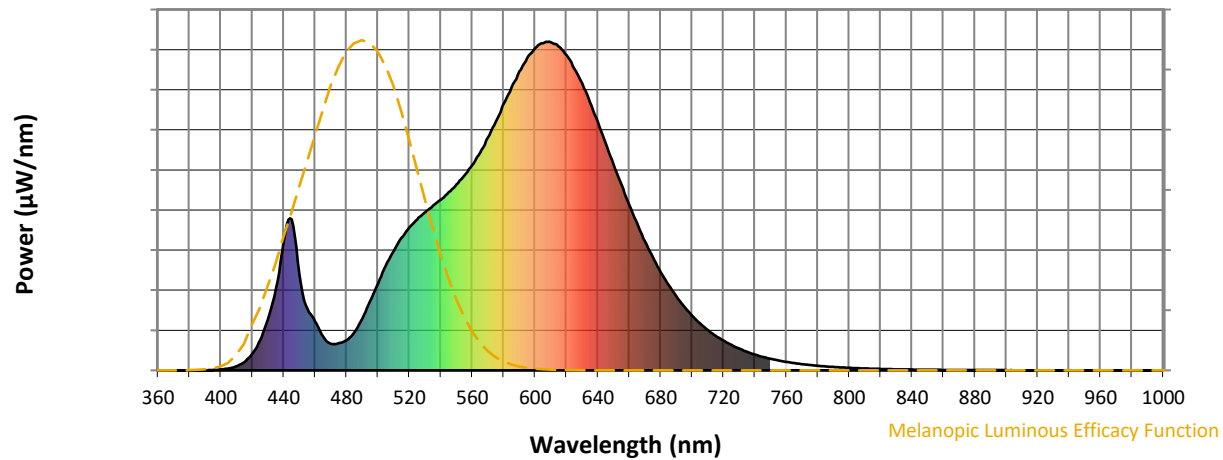
Scotopic Lumens: NR

S/P: 1.2

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.16

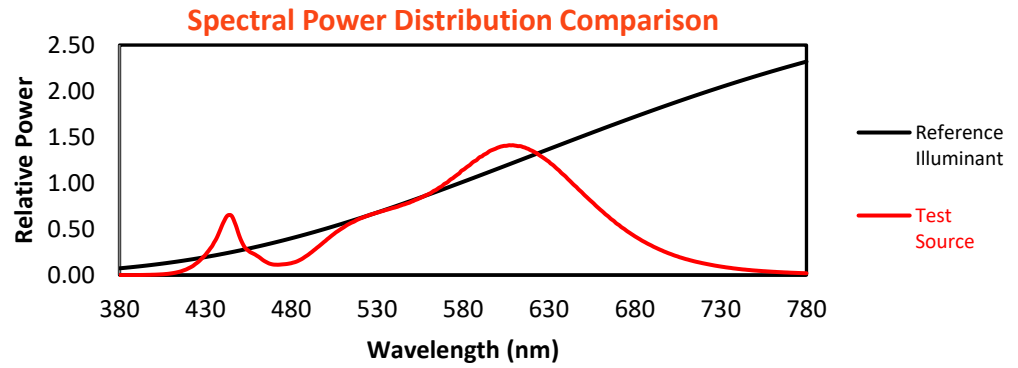
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

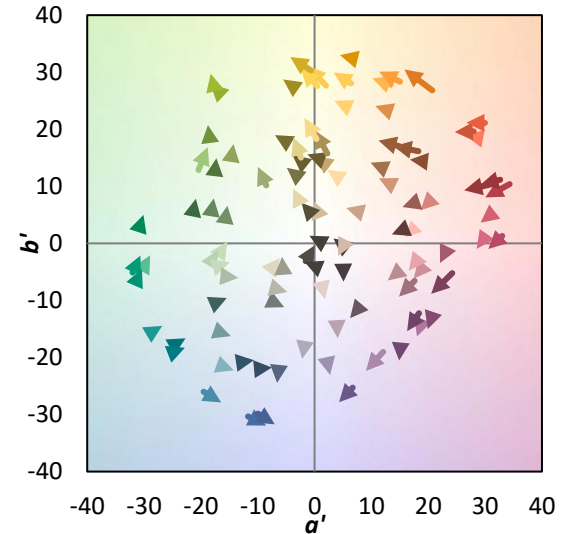
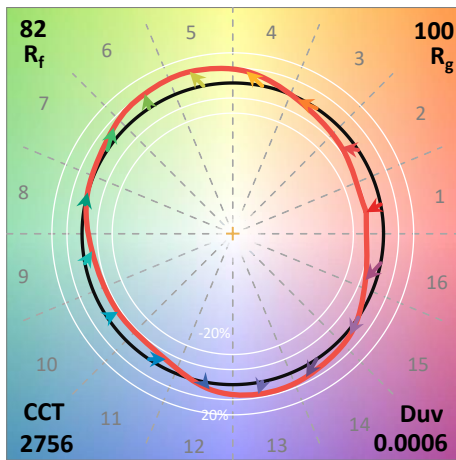
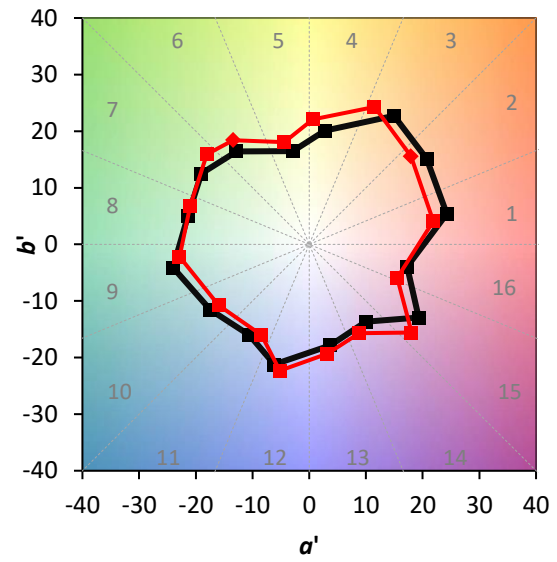
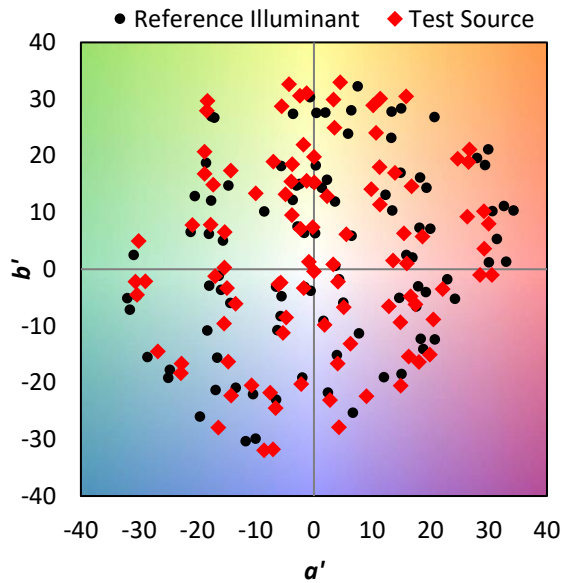
TM-30-18

Summary

$R_f = 82.2$
 $R_g = 99.9$
 $CIE R_a = 82.9$
 $R_9 = 10.8$

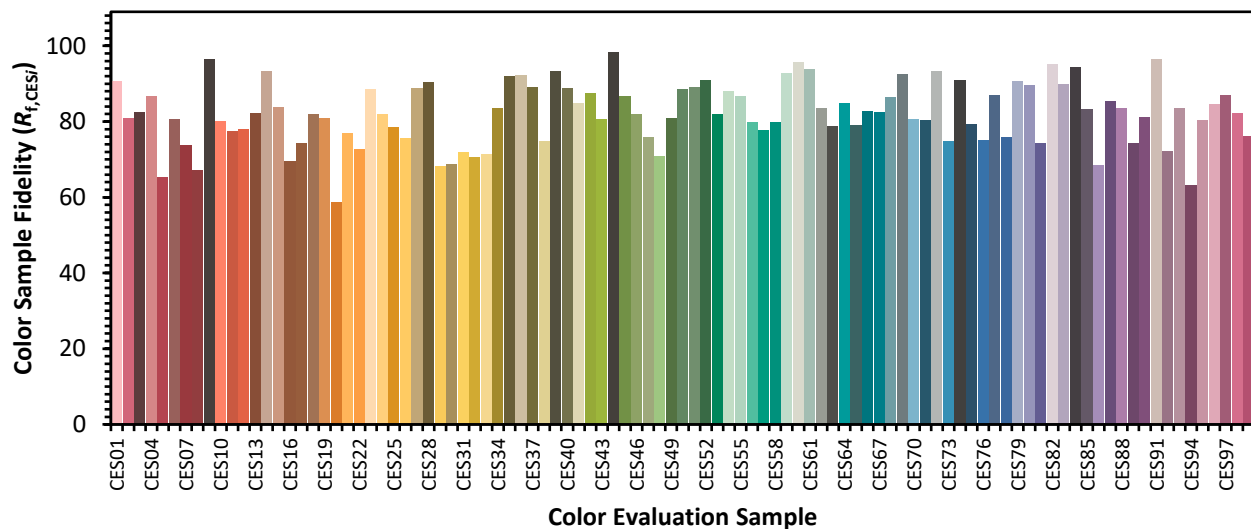


Color Vector Graphics

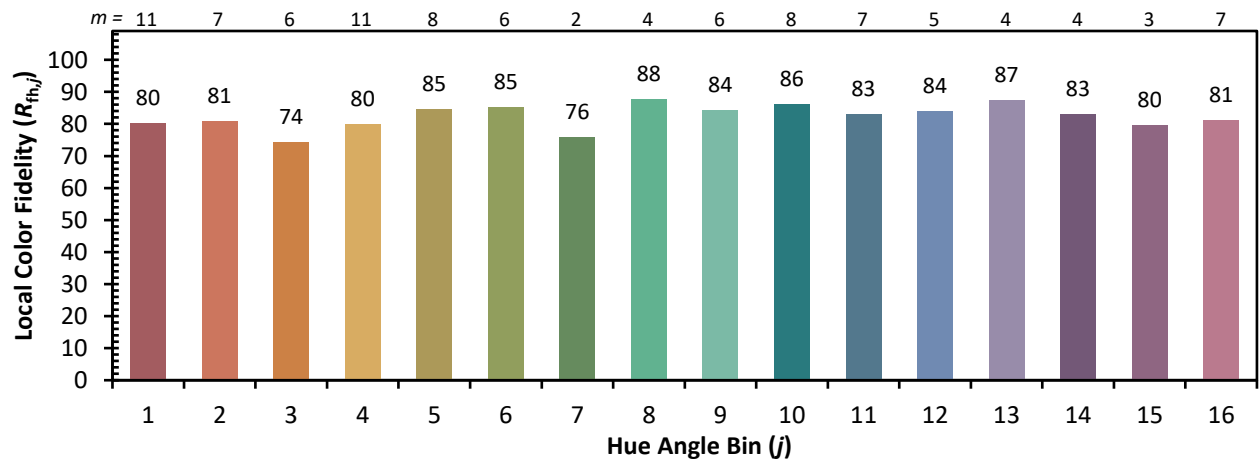
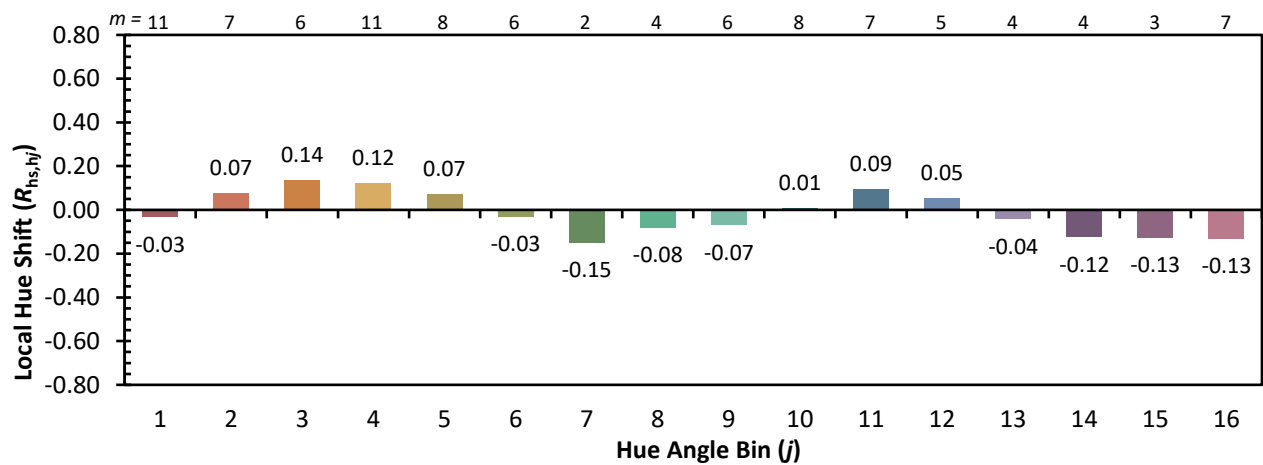
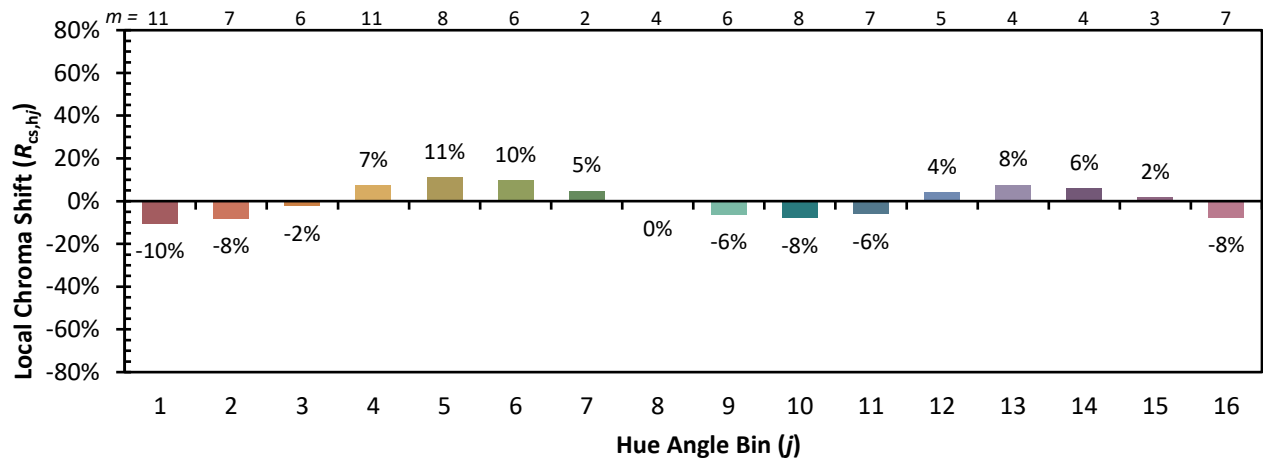


Individual Sample Fidelity Index ($R_{f,i}$)

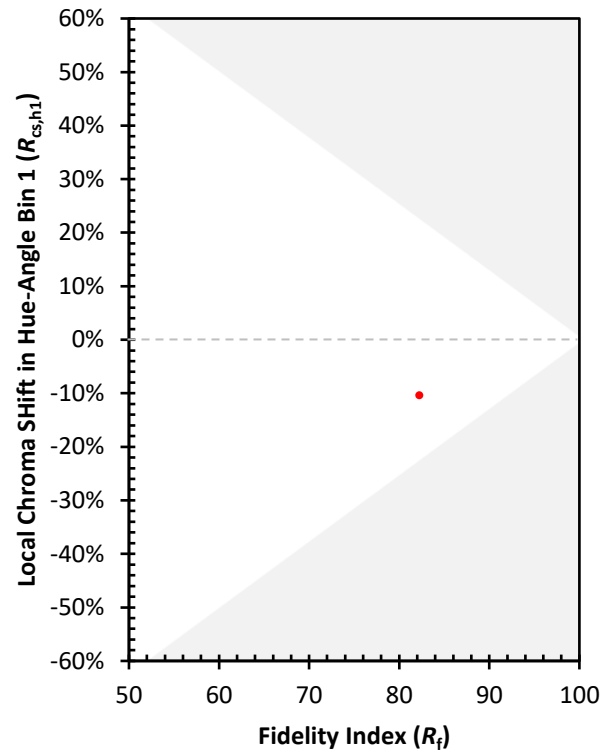
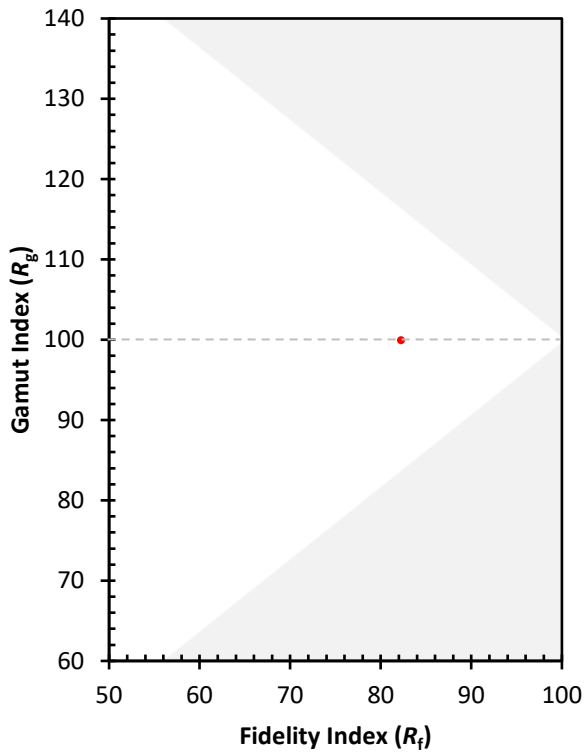
CES01 = 86	CES26 = 76	CES51 = 89	CES76 = 75
CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82 = 95
CES08 = 42	CES33 = 71	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 84	CES59 = 93	CES84 = 94
CES10 = 77	CES35 = 92	CES60 = 96	CES85 = 83
CES11 = 59	CES36 = 92	CES61 = 94	CES86 = 69
CES12 = 66	CES37 = 89	CES62 = 84	CES87 = 85
CES13 = 44	CES38 = 75	CES63 = 79	CES88 = 84
CES14 = 74	CES39 = 93	CES64 = 85	CES89 = 74
CES15 = 72	CES40 = 89	CES65 = 79	CES90 = 81
CES16 = 48	CES41 = 85	CES66 = 83	CES91 = 96
CES17 = 50	CES42 = 88	CES67 = 82	CES92 = 72
CES18 = 57	CES43 = 81	CES68 = 86	CES93 = 84
CES19 = 73	CES44 = 98	CES69 = 92	CES94 = 63
CES20 = 67	CES45 = 87	CES70 = 81	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 81	CES96 = 85
CES22 = 79	CES47 = 76	CES72 = 93	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 75	CES98 = 82
CES24 = 91	CES49 = 81	CES74 = 91	CES99 = 76
CES25 = 72	CES50 = 88	CES75 = 79	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)