

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: P991245

Luminaire Tested: **GPC-SA2C-730-U-RBC**

Issue Date: 07/03/2025

Test Information

Test Method: LM-79-08
Report Number: P991245
Test Lab: INNOVATION CENTER(G1)
Issue Date: 07/03/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-SA2C-730-U-RBC
Description: GALLEON PEDESTRAIAN COMPANION 1050mA 2xLight Square PACKAGE 70CRI
3000K FIXTURE w/ RIGHT CORNER BACKLIGHT CONTROL
Light Source: (28) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8982.5 lumens
Efficiency: N/A
Efficacy: 94.7 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): 94.9
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



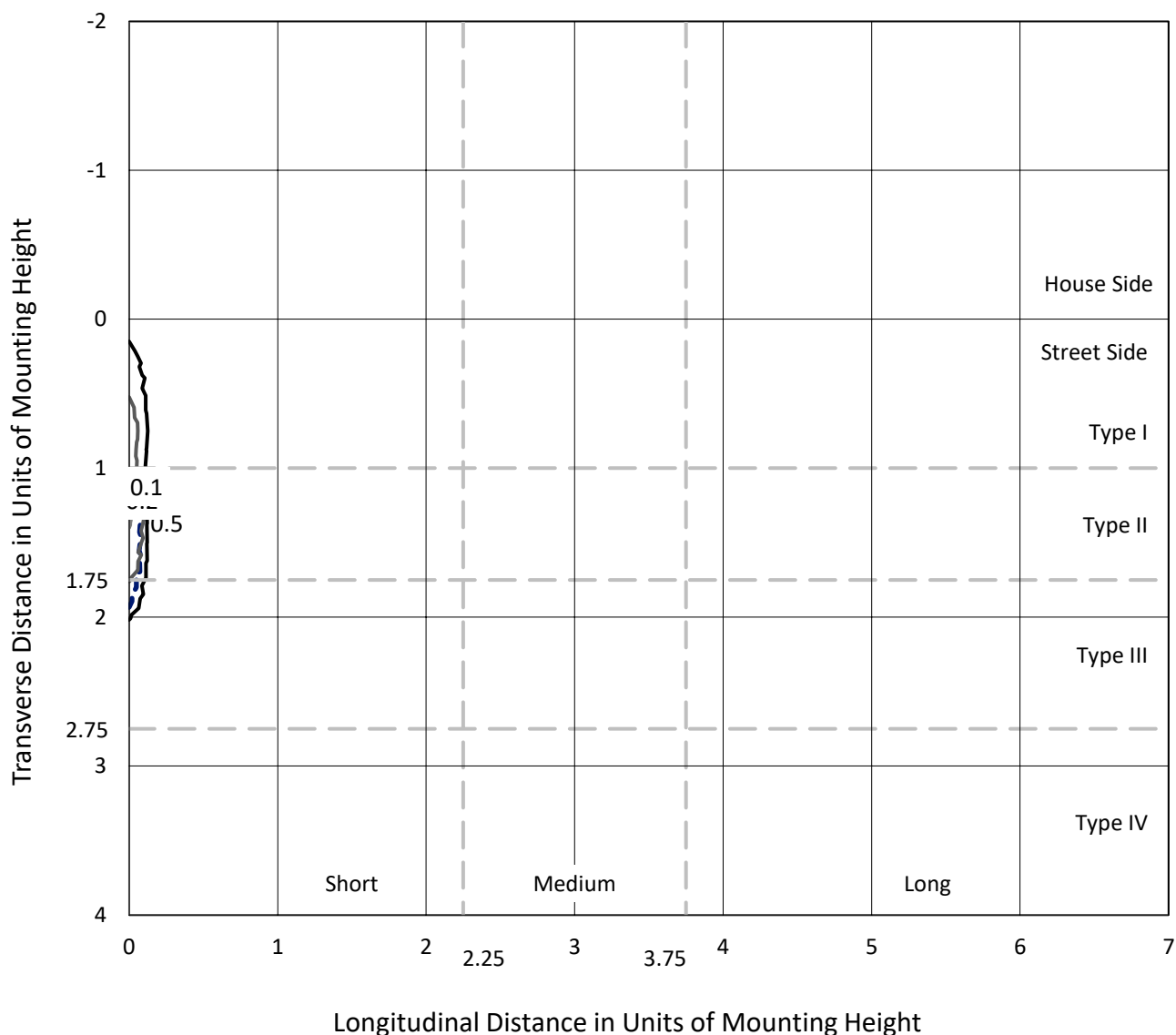
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

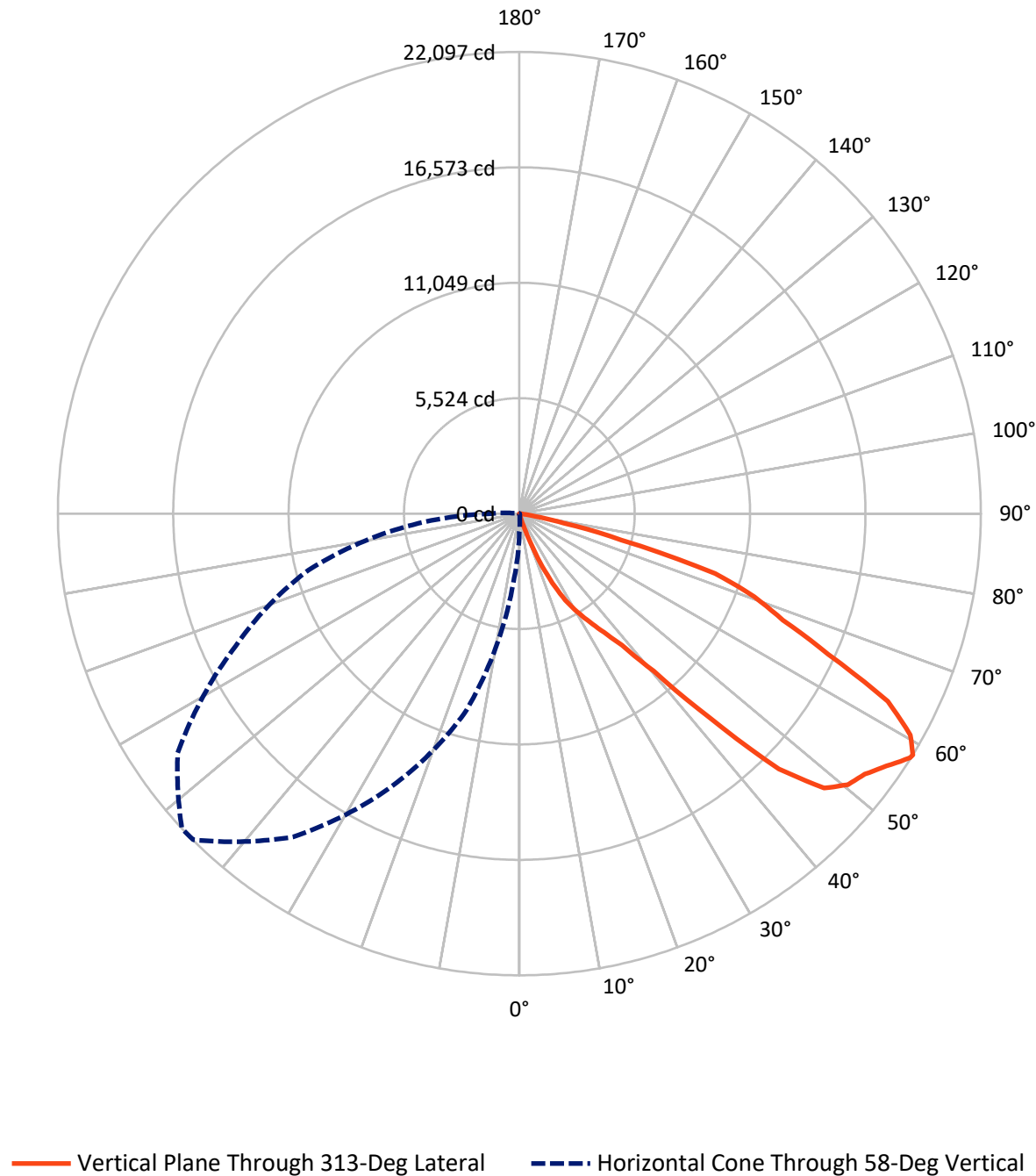


Based on 20 foot mounting height. Maximum calculated value = 0.6 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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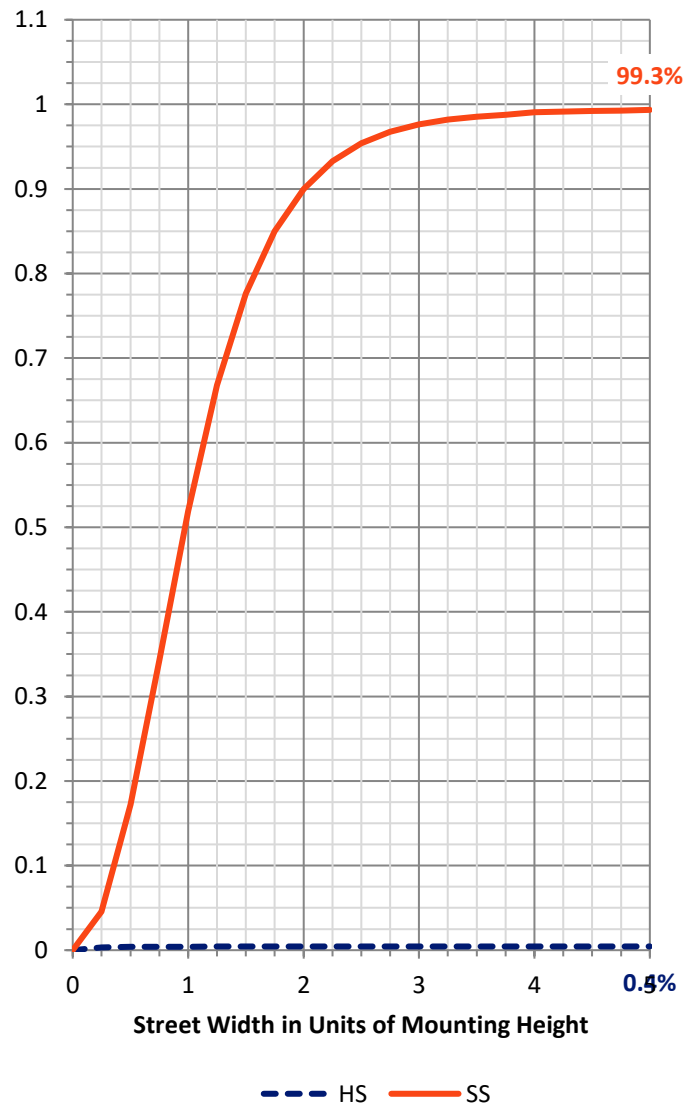
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	40.2	0.0	40.2
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	8942.3	0.0	8942.3
	% Fixture	99.6	0.0	99.6
Total	Lumens	8982.5	0.0	8982.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.3	0.0
10°-20°	15.6	0.2
20°-30°	226.8	2.5
30°-40°	652.1	7.3
40°-50°	1857.7	20.7
50°-60°	2922.0	32.5
60°-70°	2491.8	27.7
70°-80°	794.9	8.8
80°-90°	20.2	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°	8982.5	100.0
0°-180°	8982.5	100.0

Coefficient of Utilization



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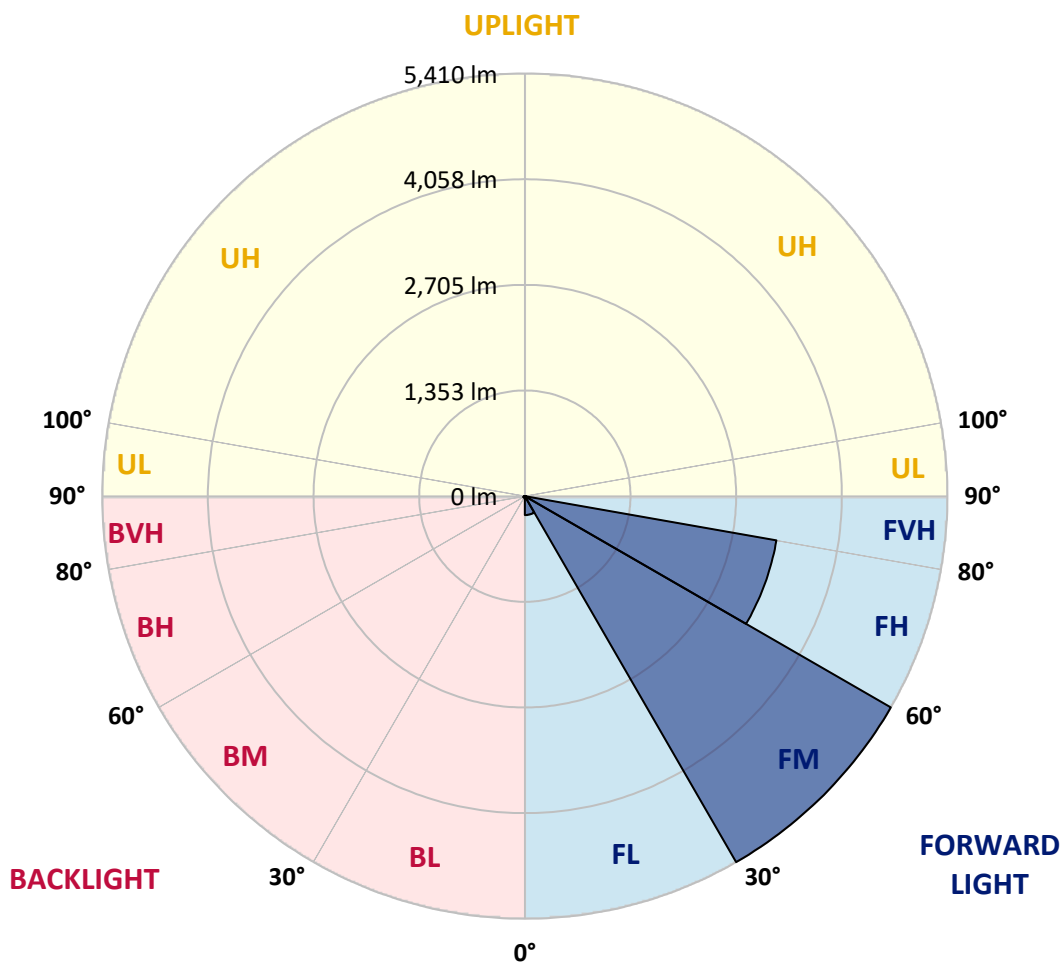
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	242.2	2.7			
FM	(30°-60°)	5410.3	60.2			
FH	(60°-80°)	3270.7	36.4			G2/5000
FVH	(80°-90°)	19.1	0.2			G1/100
BL	(0°-30°)	1.6	0.0	B0/110		
BM	(30°-60°)	21.5	0.2	B0/220		
BH	(60°-80°)	16.0	0.2	B0/110		G0/110
BVH	(80°-90°)	1.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
2.5°	32.4	34.2	36.0	34.2	30.6	23.4	23.4	18.0	12.6	7.2	5.4
5°	36.0	36.0	36.0	34.2	30.6	23.4	21.6	16.2	10.8	7.2	3.6
7.5°	39.5	39.5	37.8	34.2	28.8	23.4	21.6	16.2	10.8	5.4	0.0
10°	43.1	43.1	39.5	36.0	28.8	21.6	19.8	14.4	9.0	3.6	0.0
12.5°	48.5	46.7	41.3	36.0	28.8	19.8	19.8	14.4	7.2	1.8	0.0
15°	55.7	50.3	43.1	36.0	27.0	19.8	18.0	12.6	5.4	0.0	0.0
17.5°	61.1	55.7	44.9	34.2	25.2	18.0	16.2	10.8	5.4	0.0	0.0
20°	66.5	57.5	44.9	34.2	25.2	16.2	14.4	9.0	1.8	0.0	0.0
22.5°	75.5	61.1	44.9	34.2	23.4	14.4	12.6	7.2	0.0	0.0	0.0
25°	93.5	64.7	44.9	32.4	21.6	12.6	10.8	3.6	0.0	0.0	0.0
27.5°	115.1	70.1	44.9	30.6	19.8	10.8	9.0	1.8	0.0	0.0	0.0
30°	138.4	75.5	44.9	30.6	18.0	9.0	7.2	0.0	0.0	0.0	0.0
32.5°	163.6	82.7	44.9	28.8	16.2	7.2	5.4	0.0	0.0	0.0	0.0
35°	210.3	93.5	44.9	28.8	14.4	5.4	3.6	0.0	0.0	0.0	0.0
37.5°	231.9	107.9	44.9	27.0	14.4	3.6	1.8	0.0	0.0	0.0	0.0
40°	240.9	104.3	43.1	27.0	12.6	1.8	0.0	0.0	0.0	0.0	0.0
42.5°	260.7	97.1	44.9	25.2	12.6	1.8	0.0	0.0	0.0	0.0	0.0
45°	318.2	97.1	48.5	25.2	10.8	3.6	0.0	0.0	0.0	0.0	0.0
47.5°	551.9	100.7	46.7	25.2	10.8	3.6	0.0	0.0	0.0	0.0	0.0
50°	907.8	118.6	44.9	27.0	12.6	1.8	0.0	0.0	0.0	0.0	0.0
52.5°	1053.4	143.8	44.9	28.8	16.2	0.0	0.0	0.0	0.0	0.0	0.0
55°	1010.3	176.2	44.9	30.6	19.8	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	918.6	167.2	48.5	36.0	25.2	0.0	0.0	0.0	0.0	0.0	0.0
58°	884.5	167.2	48.5	36.0	25.2	0.0	0.0	0.0	0.0	0.0	0.0
60°	693.9	170.8	55.7	39.5	27.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	515.9	174.4	62.9	44.9	27.0	1.8	0.0	0.0	0.0	0.0	0.0
65°	382.9	181.6	66.5	52.1	25.2	3.6	0.0	0.0	0.0	0.0	0.0
67.5°	305.6	187.0	71.9	57.5	28.8	7.2	1.8	0.0	0.0	0.0	0.0
70°	262.5	179.8	77.3	59.3	27.0	10.8	5.4	0.0	0.0	0.0	0.0
72.5°	233.7	169.0	88.1	57.5	28.8	10.8	5.4	0.0	0.0	0.0	0.0
75°	210.3	154.6	100.7	55.7	28.8	10.8	7.2	0.0	0.0	0.0	0.0
77.5°	158.2	134.8	98.9	53.9	27.0	10.8	7.2	0.0	0.0	0.0	0.0
80°	79.1	89.9	86.3	48.5	21.6	9.0	7.2	1.8	0.0	0.0	0.0
82.5°	32.4	34.2	43.1	36.0	18.0	7.2	7.2	1.8	0.0	0.0	0.0
85°	3.6	7.2	12.6	14.4	12.6	7.2	7.2	1.8	0.0	0.0	0.0
87.5°	0.0	1.8	7.2	10.8	9.0	5.4	3.6	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°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
2.5°	3.6	3.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
5°	1.8	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°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
2.5°	1.8	3.6	3.6	3.6	5.4	5.4	7.2	9.0	9.0	9.0	10.8
5°	0.0	0.0	1.8	1.8	3.6	5.4	7.2	10.8	12.6	12.6	14.4
7.5°	0.0	0.0	0.0	1.8	3.6	5.4	7.2	10.8	14.4	16.2	18.0
10°	0.0	0.0	0.0	0.0	1.8	3.6	7.2	12.6	18.0	21.6	25.2
12.5°	0.0	0.0	0.0	0.0	0.0	1.8	7.2	14.4	21.6	27.0	30.6
15°	0.0	0.0	0.0	0.0	0.0	1.8	7.2	14.4	27.0	32.4	39.5
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.2	16.2	30.6	39.5	53.9
20°	0.0	0.0	0.0	0.0	0.0	0.0	5.4	16.2	34.2	48.5	80.9
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.4	16.2	37.8	62.9	149.2
25°	0.0	0.0	0.0	0.0	0.0	0.0	3.6	16.2	43.1	93.5	248.1
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.6	18.0	52.1	131.2	363.1
30°	0.0	0.0	0.0	0.0	0.0	0.0	3.6	18.0	64.7	178.0	506.9
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	18.0	75.5	224.7	690.3
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.2	89.9	298.4	866.5
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.2	111.5	329.0	1015.7
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.4	106.1	357.7	1186.5
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.2	97.1	399.1	1454.3
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.2	97.1	528.5	2047.6
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.4	118.6	823.3	3129.8
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	152.8	1263.8	4456.4
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	185.2	1555.0	5225.8
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	222.9	1556.8	5200.7
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	248.1	1393.2	4693.7
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.6	246.3	1348.3	4553.5
60°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	18.0	215.7	1170.3	3974.7
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.2	28.8	188.8	839.5	3295.1
65°	0.0	0.0	0.0	0.0	0.0	0.0	14.4	32.4	172.6	609.4	2473.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	18.0	37.8	165.4	431.4	1720.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	21.6	43.1	152.8	309.2	1132.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	21.6	53.9	143.8	242.7	683.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	21.6	68.3	125.8	197.7	366.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	21.6	73.7	104.3	143.8	222.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	19.8	66.5	75.5	62.9	75.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	10.8	39.5	16.2	16.2	25.2
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°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
2.5°	12.6	12.6	12.6	12.6	14.4	14.4	19.8	25.2	30.6	32.4
5°	16.2	18.0	19.8	19.8	19.8	21.6	25.2	28.8	34.2	36.0
7.5°	23.4	25.2	28.8	28.8	28.8	30.6	32.4	36.0	39.5	39.5
10°	30.6	36.0	37.8	39.5	41.3	41.3	41.3	43.1	44.9	43.1
12.5°	41.3	48.5	57.5	59.3	59.3	59.3	57.5	53.9	50.3	48.5
15°	57.5	79.1	107.9	118.6	113.3	100.7	88.1	68.3	59.3	55.7
17.5°	106.1	215.7	391.9	433.2	424.3	364.9	213.9	104.3	70.1	61.1
20°	285.8	697.5	1150.5	1260.2	1317.7	1091.2	631.0	242.7	86.3	66.5
22.5°	616.6	1448.9	2245.3	2529.3	2547.3	2049.4	1227.8	492.6	124.0	75.5
25°	992.3	2317.2	3403.0	3678.0	3683.4	3158.5	1963.1	798.2	188.8	93.5
27.5°	1520.8	3248.4	4463.6	4691.9	4688.3	4156.2	2836.7	1218.8	264.3	115.1
30°	2061.9	3974.7	5162.9	5447.0	5473.9	4837.5	3566.6	1716.8	345.2	138.4
32.5°	2597.6	4512.2	5801.1	6178.6	6155.2	5439.8	4075.3	2124.9	483.6	163.6
35°	3020.1	4970.6	6507.6	6971.4	6989.4	6101.3	4526.5	2520.3	602.2	210.3
37.5°	3381.4	5562.0	7447.8	7983.5	8006.9	6924.6	4999.3	2908.6	704.7	231.9
40°	3827.3	6532.8	9004.6	9914.2	9917.8	8459.9	5849.6	3343.7	843.1	240.9
42.5°	4828.6	8612.7	12046.2	13353.1	13466.4	11645.3	7782.1	4287.5	1060.6	260.7
45°	6831.2	11354.1	15925.6	17430.3	17574.1	15609.2	11095.3	6466.2	1538.8	318.2
47.5°	9213.1	13737.8	18179.9	19628.8	19724.1	17484.2	13313.6	8986.6	2619.2	551.9
50°	10678.2	14620.5	19008.6	20391.0	20407.2	18100.8	14009.3	10295.3	3732.0	907.8
52.5°	11133.0	14733.8	19041.0	20712.8	20759.6	18028.9	14104.6	10559.6	4195.8	1053.4
55°	10947.8	14667.2	19382.5	21327.6	21378.0	18321.9	14039.9	10270.1	3978.3	1010.3
57.5°	10525.4	14926.1	19943.4	22057.5	22057.5	18863.0	14278.9	9784.8	3446.1	918.6
58°	10462.5	14990.8	19974.0	22097.0	22080.9	18897.2	14377.8	9714.6	3329.3	884.5
60°	10376.2	15190.4	19747.5	21512.8	21466.1	18656.3	14557.6	9651.7	2763.0	693.9
62.5°	10250.4	14740.9	18097.2	19794.2	19673.8	16968.3	14041.6	9283.2	2061.9	515.9
65°	9605.0	13081.7	15086.1	16261.8	16224.0	13959.0	12085.8	8316.1	1484.9	382.9
67.5°	8096.7	10241.4	12186.4	13603.0	13612.0	11395.5	9452.2	6646.0	1010.3	305.6
70°	5695.0	7553.8	10360.0	11936.6	12008.5	9558.2	7001.9	4429.5	666.9	262.5
72.5°	3401.2	5705.8	8614.5	9811.7	9774.0	7931.3	5195.3	2640.8	406.3	233.7
75°	1648.5	3410.2	4354.0	5049.7	5020.9	3967.5	2768.4	1294.3	296.6	210.3
77.5°	447.6	1048.0	1686.2	2193.2	2252.5	1589.1	907.8	347.0	185.2	158.2
80°	151.0	323.6	550.1	747.8	767.6	686.7	341.6	122.2	80.9	79.1
82.5°	57.5	79.1	100.7	89.9	89.9	93.5	73.7	52.1	37.8	32.4
85°	0.0	0.0	1.8	3.6	3.6	5.4	5.4	5.4	3.6	3.6
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: SP1-2407-184-4

Test Date: 10/10/2024

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

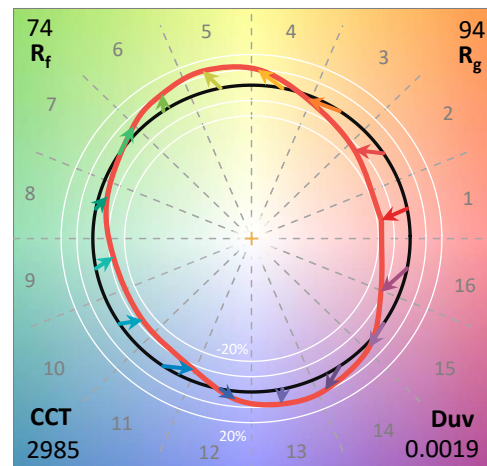
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-4
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/15/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGraw-Edison
 Catalog Number: **GSS-SB1A-730-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3000K CCT 26 LEDS

Spectral Parameters

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



Test Conditions

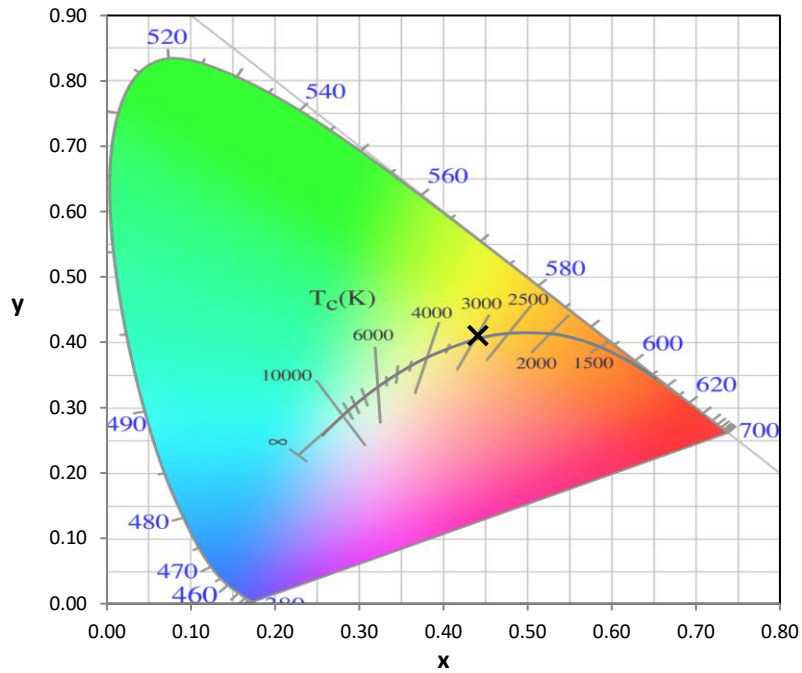
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

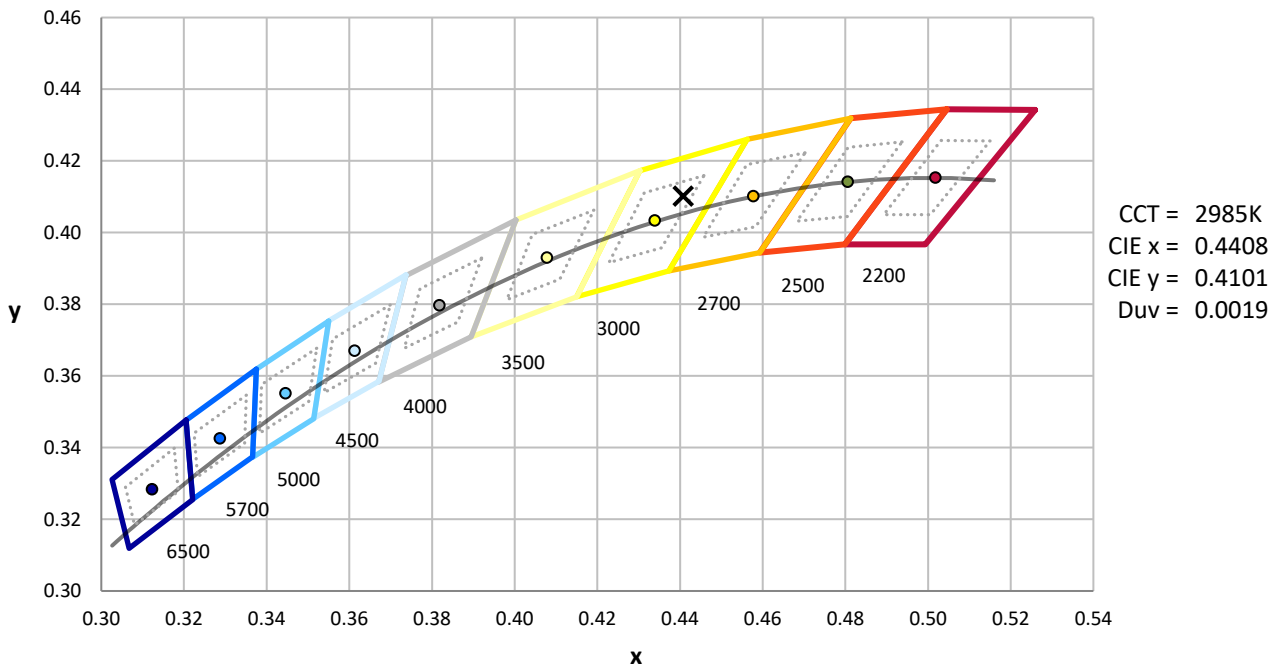
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram

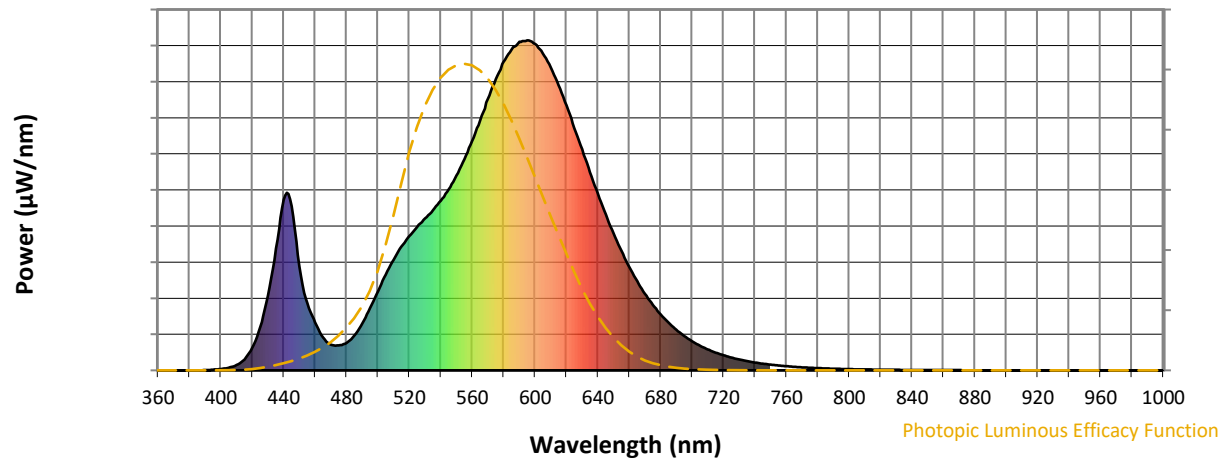


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

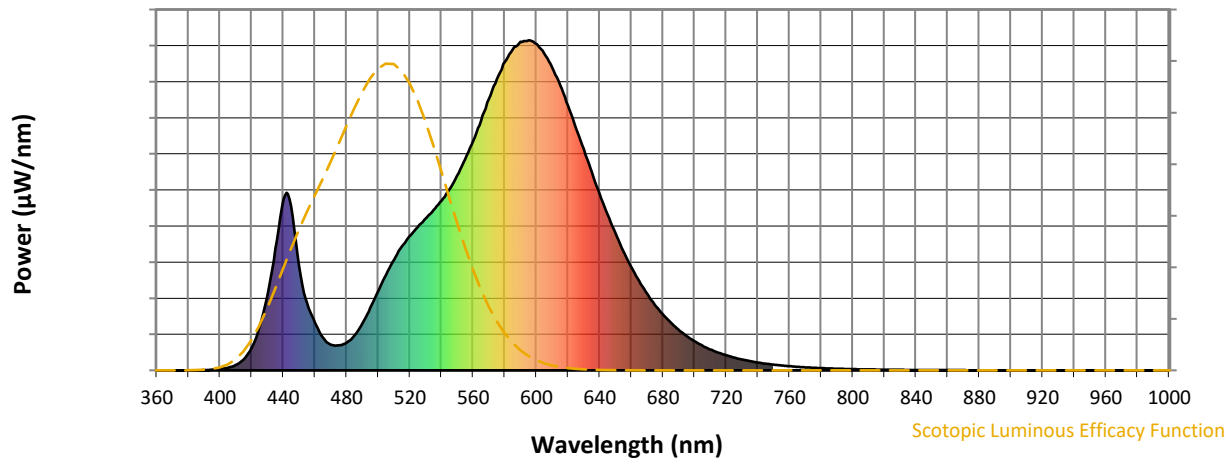


Photopic Lumens: NR

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

REPORT NUMBER: SP1-2407-184-4

Scotopic Flux vs. Wavelength



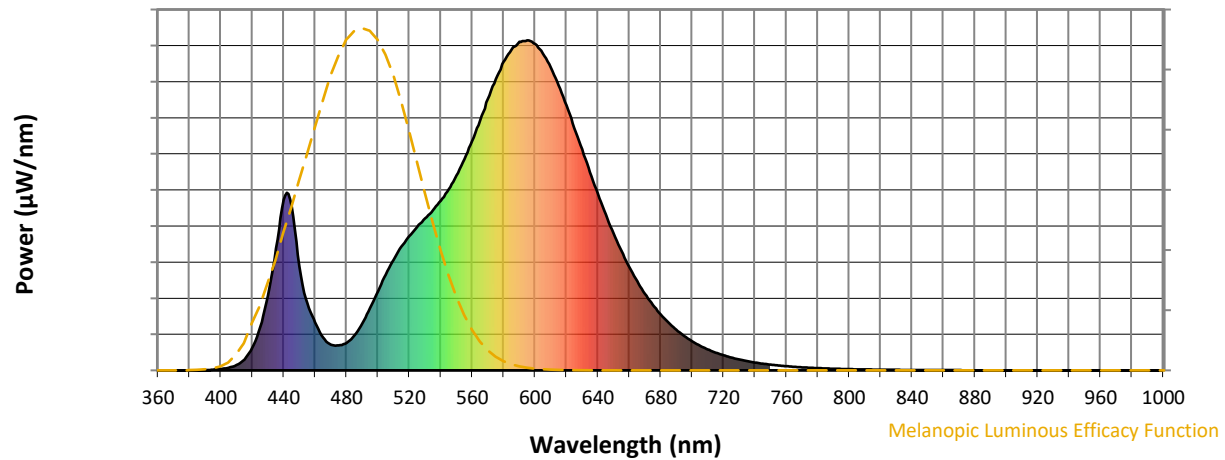
Scotopic Lumens: NR

S/P: 1.19

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

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.13

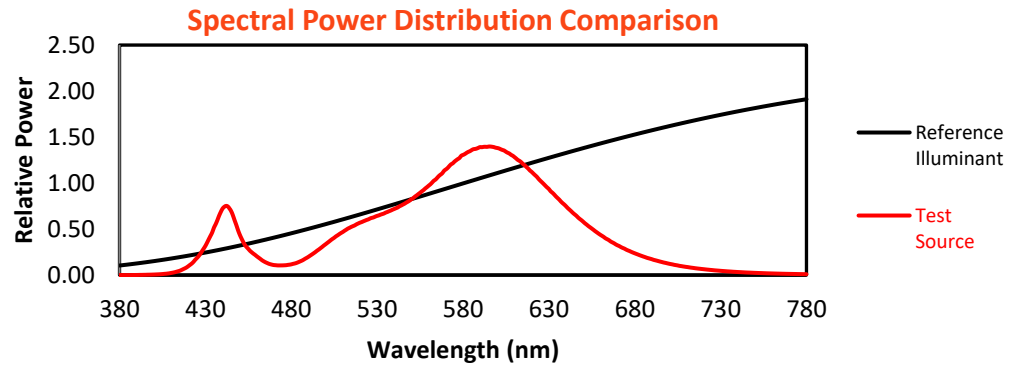
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803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

REPORT NUMBER: SP1-2407-184-4

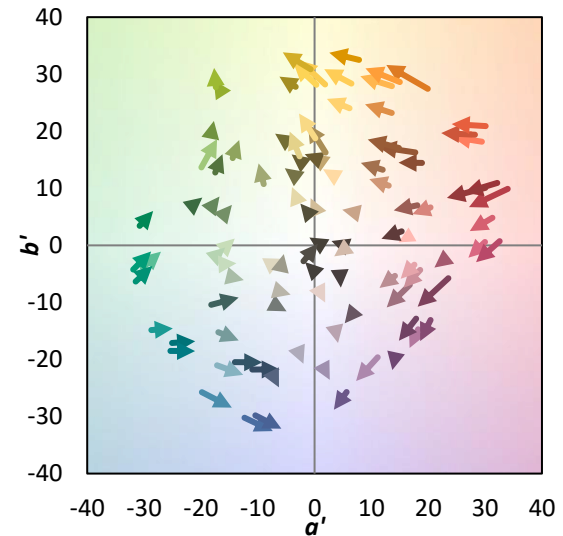
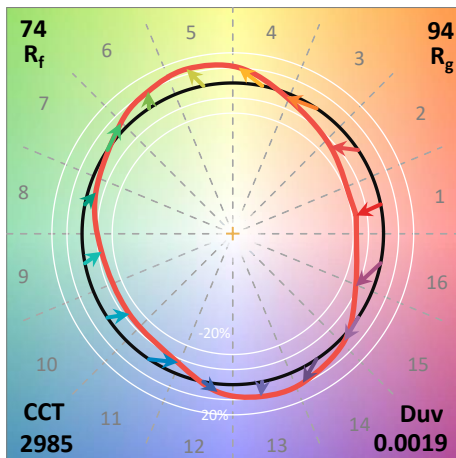
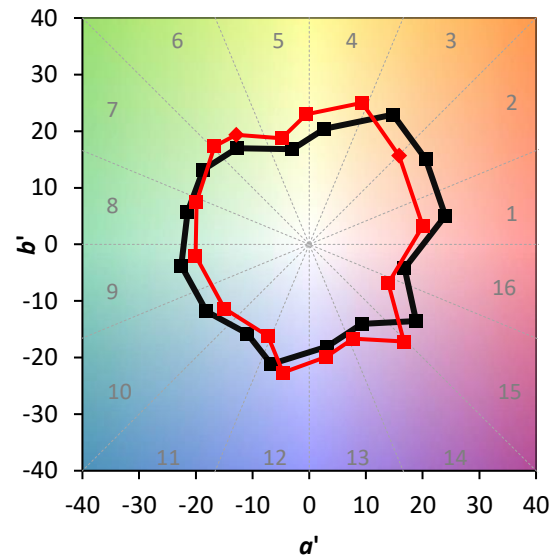
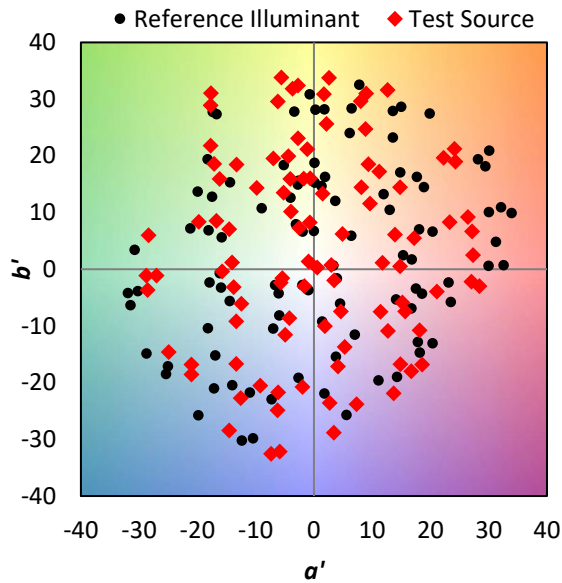
TM-30-18

Summary

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

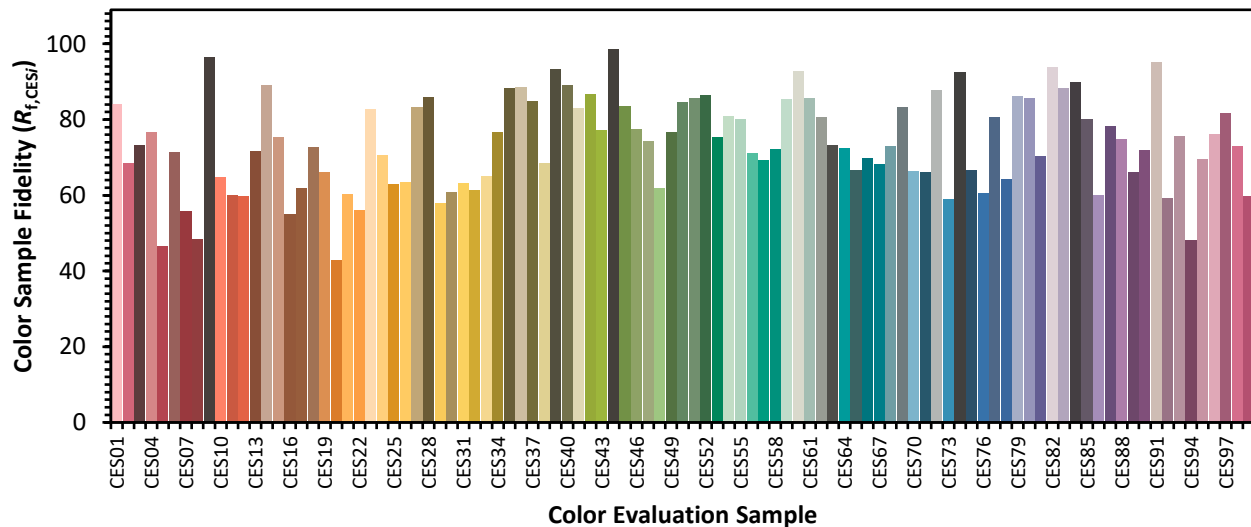


Color Vector Graphics

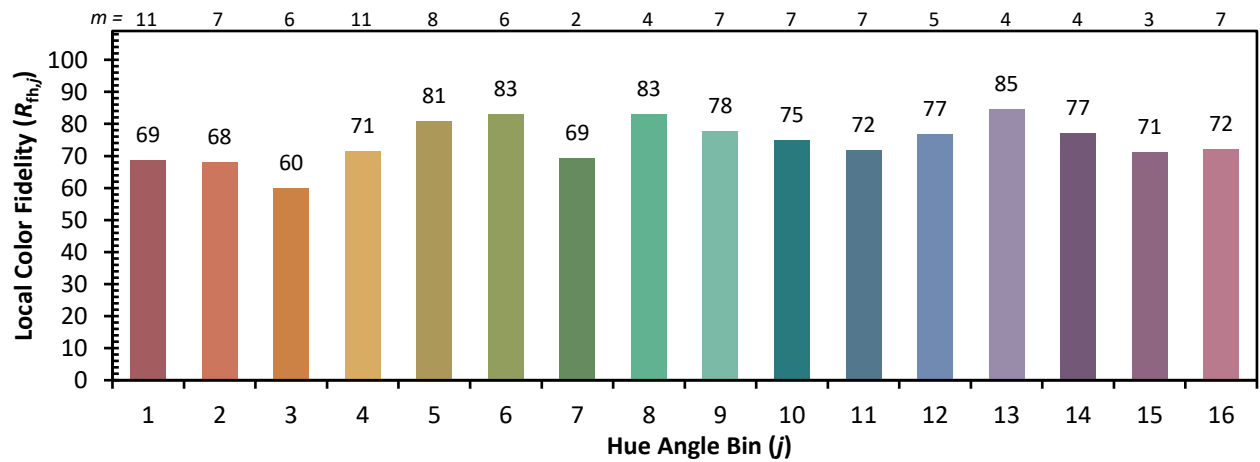
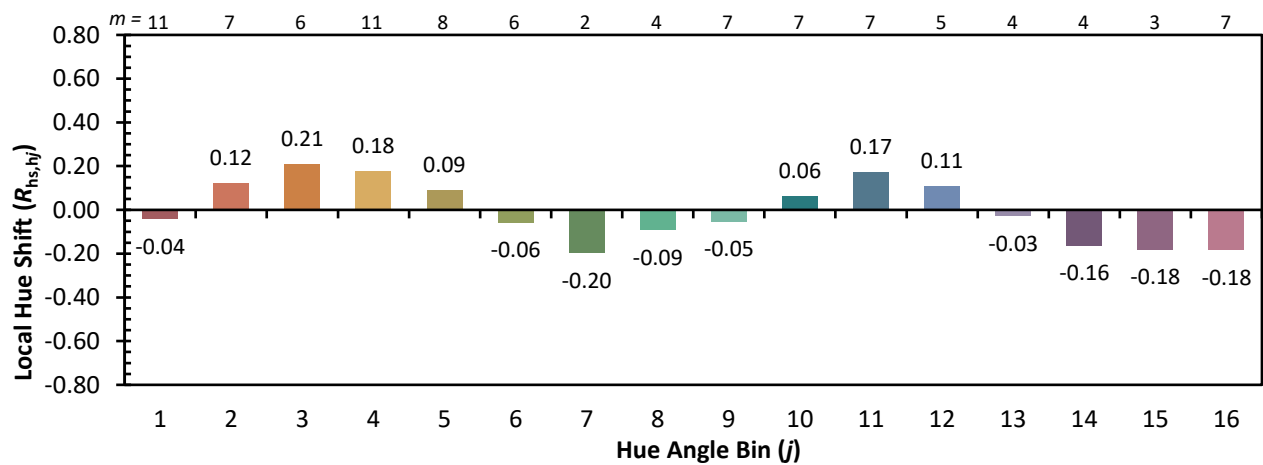
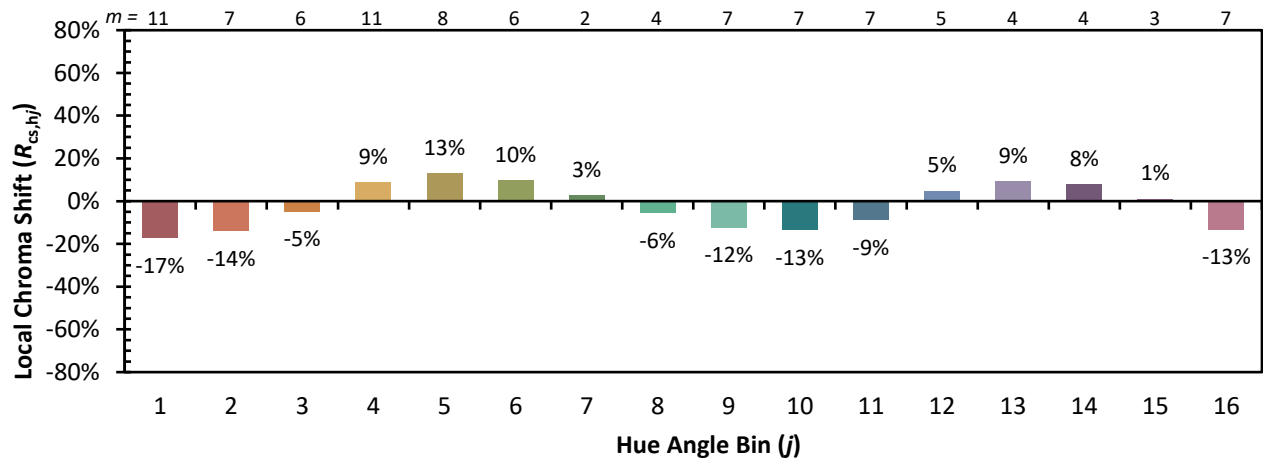


Individual Sample Fidelity Index ($R_{f,i}$)

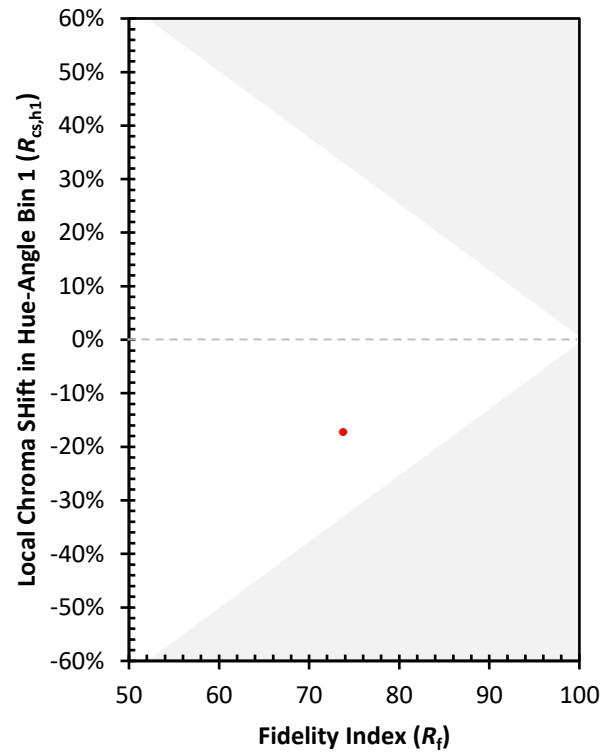
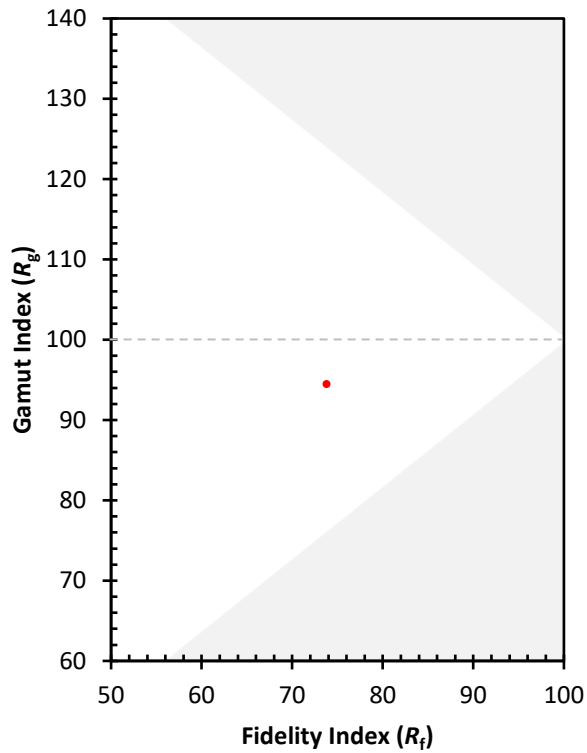
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82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



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)