

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: STREETWORKS

Report Number: P1057656

Luminaire Tested: **GAP-SA1A-727-U-RBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1057656
Test Lab: INNOVATION CENTER(G1)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-SA1A-727-U-RBC
Description: GALLEON PEDESTRAIAN COMPANION 615mA 1xLight Square PACKAGE 70CRI
2700K FIXTURE w/ RIGHT CORNER BACKLIGHT CONTROL
Light Source: (14) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2704.7 lumens
Efficiency: N/A
Efficacy: 92.0 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: 28.75 FT

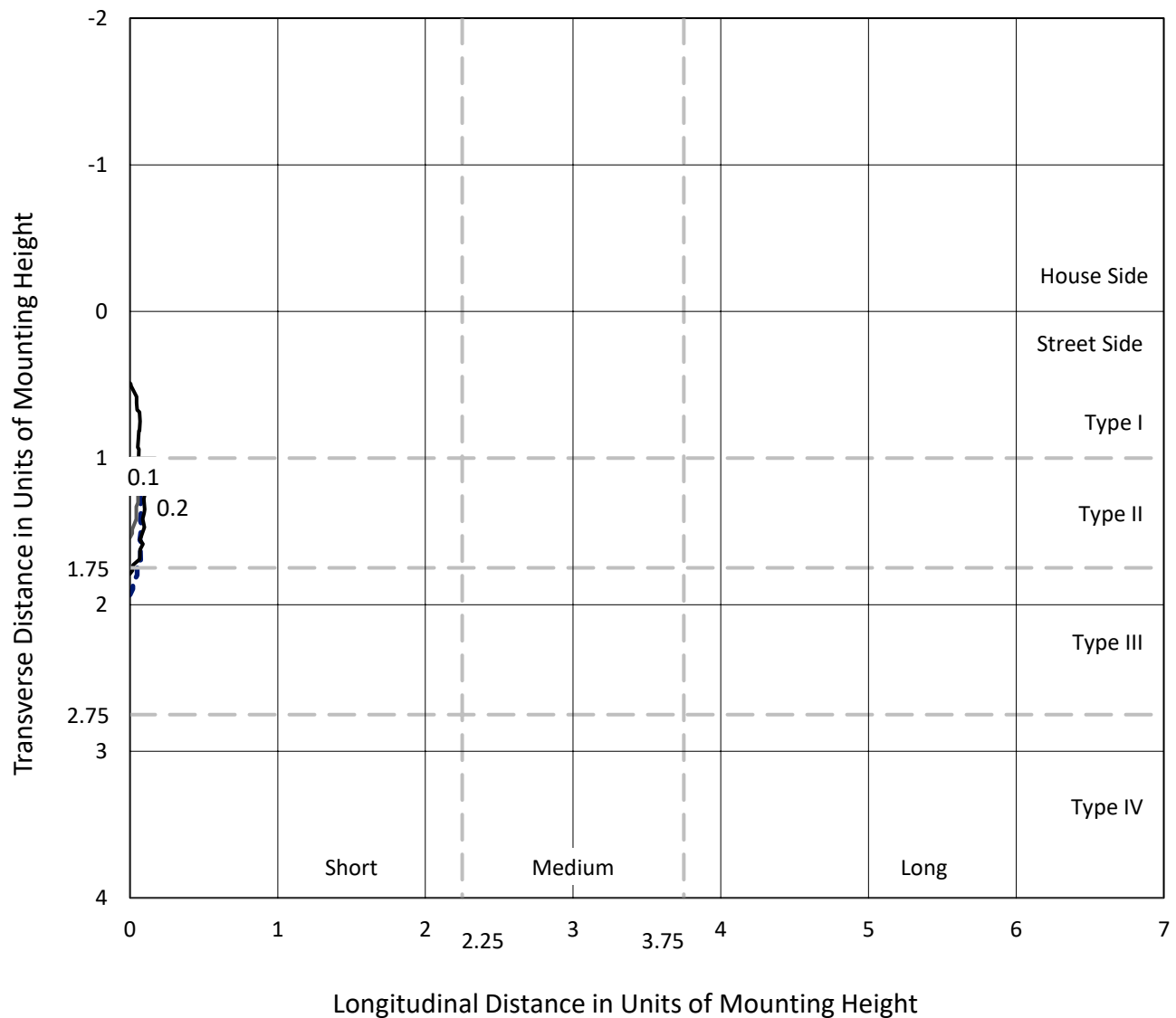


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

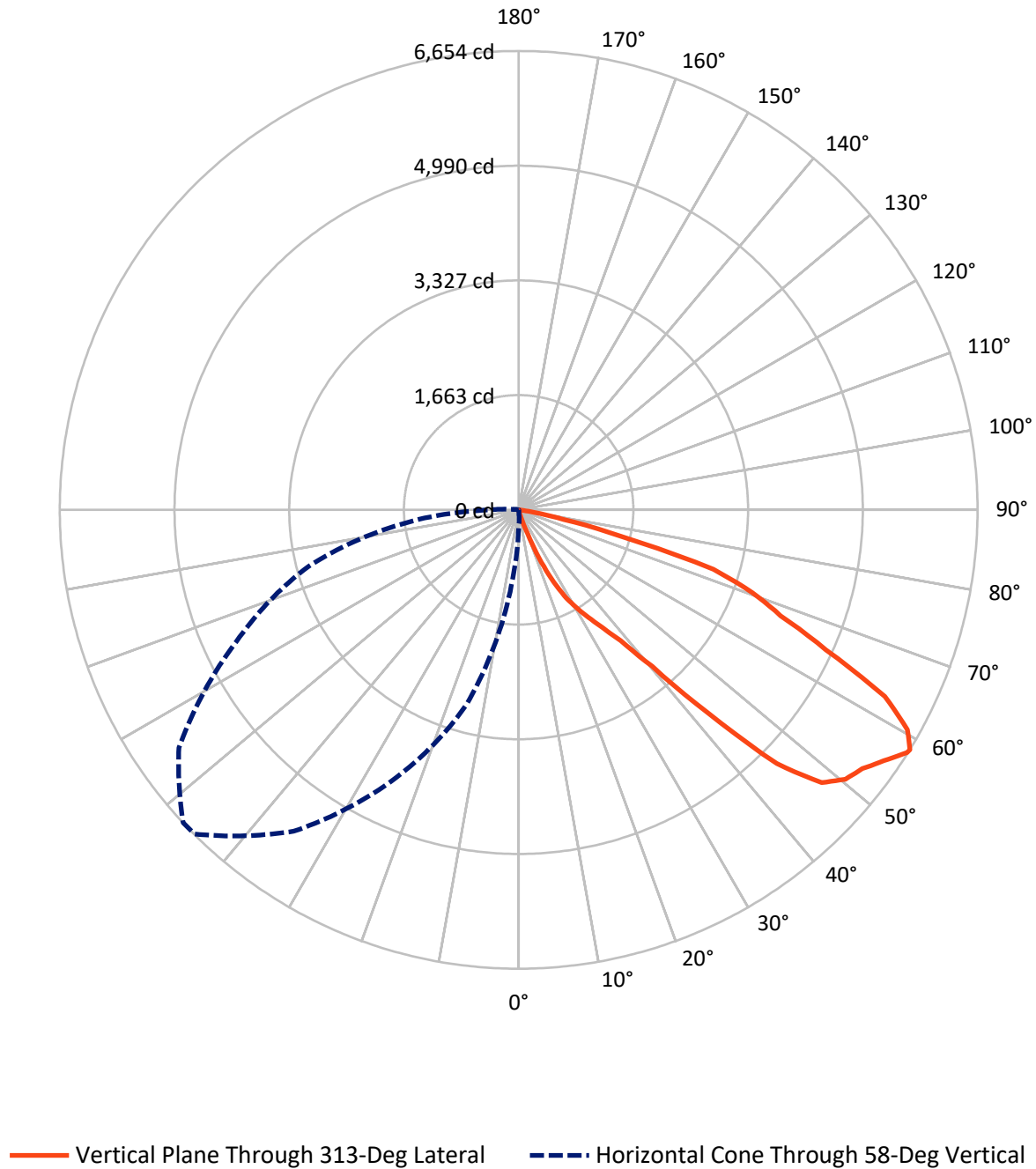


Based on 15 foot mounting height. Maximum calculated value = 0.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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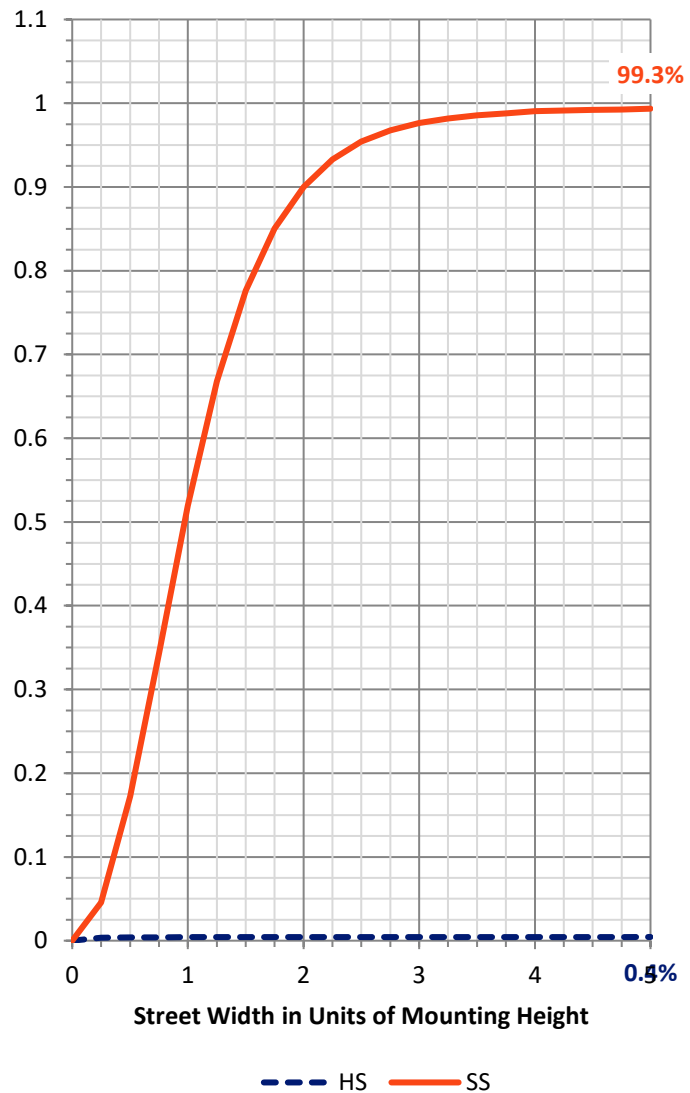
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12.1	0.0	12.1
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	2692.7	0.0	2692.7
	% Fixture	99.6	0.0	99.6
Total	Lumens	2704.7	0.0	2704.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.4	0.0
10°-20°	4.7	0.2
20°-30°	68.3	2.5
30°-40°	196.4	7.3
40°-50°	559.4	20.7
50°-60°	879.9	32.5
60°-70°	750.3	27.7
70°-80°	239.3	8.8
80°-90°	6.1	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°	2704.7	100.0
0°-180°	2704.7	100.0



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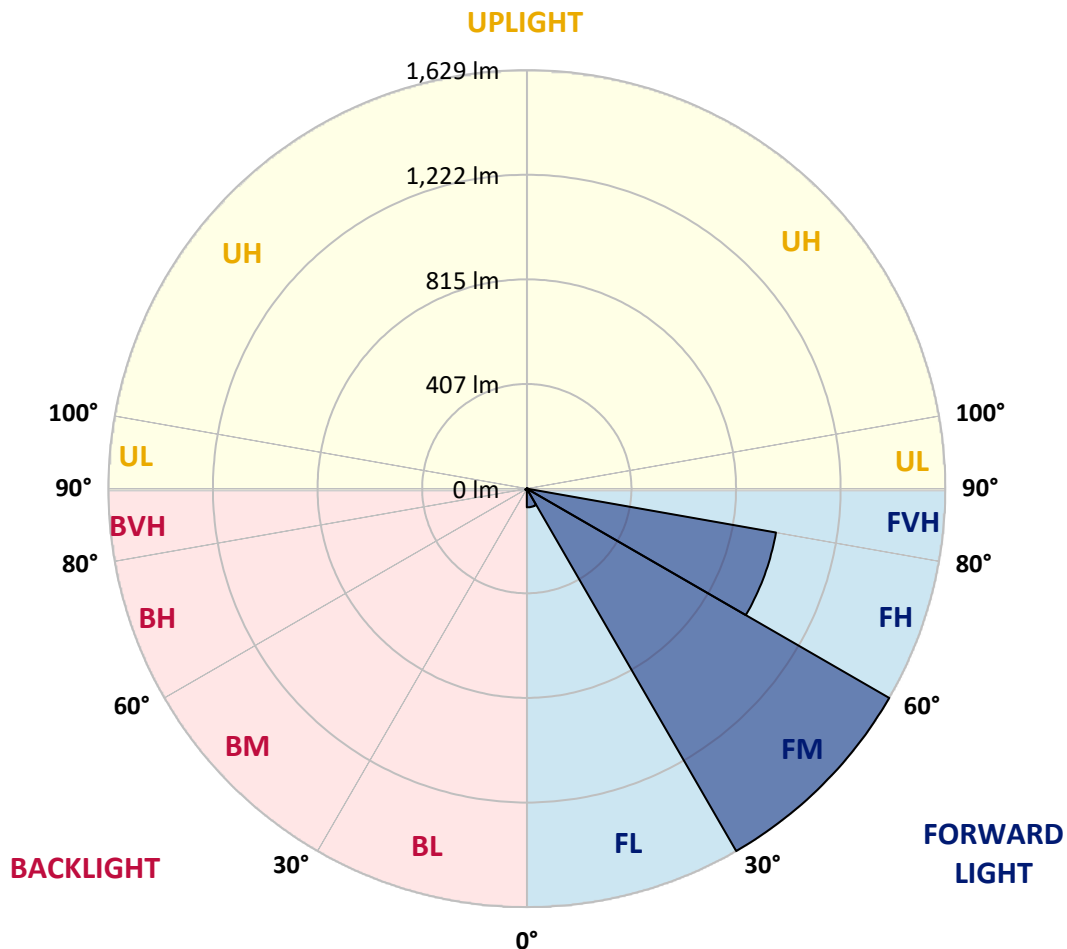
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	72.9	2.7			
FM	(30°-60°)	1629.1	60.2			
FH	(60°-80°)	984.9	36.4			G1/1800
FVH	(80°-90°)	5.8	0.2			G0/10
BL	(0°-30°)	0.5	0.0	B0/110		
BM	(30°-60°)	6.5	0.2	B0/220		
BH	(60°-80°)	4.8	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°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
2.5°	9.7	10.3	10.8	10.3	9.2	7.0	7.0	5.4	3.8	2.2	1.6
5°	10.8	10.8	10.8	10.3	9.2	7.0	6.5	4.9	3.2	2.2	1.1
7.5°	11.9	11.9	11.4	10.3	8.7	7.0	6.5	4.9	3.2	1.6	0.0
10°	13.0	13.0	11.9	10.8	8.7	6.5	6.0	4.3	2.7	1.1	0.0
12.5°	14.6	14.1	12.5	10.8	8.7	6.0	6.0	4.3	2.2	0.5	0.0
15°	16.8	15.2	13.0	10.8	8.1	6.0	5.4	3.8	1.6	0.0	0.0
17.5°	18.4	16.8	13.5	10.3	7.6	5.4	4.9	3.2	1.6	0.0	0.0
20°	20.0	17.3	13.5	10.3	7.6	4.9	4.3	2.7	0.5	0.0	0.0
22.5°	22.7	18.4	13.5	10.3	7.0	4.3	3.8	2.2	0.0	0.0	0.0
25°	28.1	19.5	13.5	9.7	6.5	3.8	3.2	1.1	0.0	0.0	0.0
27.5°	34.6	21.1	13.5	9.2	6.0	3.2	2.7	0.5	0.0	0.0	0.0
30°	41.7	22.7	13.5	9.2	5.4	2.7	2.2	0.0	0.0	0.0	0.0
32.5°	49.3	24.9	13.5	8.7	4.9	2.2	1.6	0.0	0.0	0.0	0.0
35°	63.3	28.1	13.5	8.7	4.3	1.6	1.1	0.0	0.0	0.0	0.0
37.5°	69.8	32.5	13.5	8.1	4.3	1.1	0.5	0.0	0.0	0.0	0.0
40°	72.5	31.4	13.0	8.1	3.8	0.5	0.0	0.0	0.0	0.0	0.0
42.5°	78.5	29.2	13.5	7.6	3.8	0.5	0.0	0.0	0.0	0.0	0.0
45°	95.8	29.2	14.6	7.6	3.2	1.1	0.0	0.0	0.0	0.0	0.0
47.5°	166.2	30.3	14.1	7.6	3.2	1.1	0.0	0.0	0.0	0.0	0.0
50°	273.4	35.7	13.5	8.1	3.8	0.5	0.0	0.0	0.0	0.0	0.0
52.5°	317.2	43.3	13.5	8.7	4.9	0.0	0.0	0.0	0.0	0.0	0.0
55°	304.2	53.0	13.5	9.2	6.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	276.6	50.3	14.6	10.8	7.6	0.0	0.0	0.0	0.0	0.0	0.0
58°	266.3	50.3	14.6	10.8	7.6	0.0	0.0	0.0	0.0	0.0	0.0
60°	208.9	51.4	16.8	11.9	8.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	155.4	52.5	18.9	13.5	8.1	0.5	0.0	0.0	0.0	0.0	0.0
65°	115.3	54.7	20.0	15.7	7.6	1.1	0.0	0.0	0.0	0.0	0.0
67.5°	92.0	56.3	21.7	17.3	8.7	2.2	0.5	0.0	0.0	0.0	0.0
70°	79.0	54.1	23.3	17.9	8.1	3.2	1.6	0.0	0.0	0.0	0.0
72.5°	70.4	50.9	26.5	17.3	8.7	3.2	1.6	0.0	0.0	0.0	0.0
75°	63.3	46.6	30.3	16.8	8.7	3.2	2.2	0.0	0.0	0.0	0.0
77.5°	47.6	40.6	29.8	16.2	8.1	3.2	2.2	0.0	0.0	0.0	0.0
80°	23.8	27.1	26.0	14.6	6.5	2.7	2.2	0.5	0.0	0.0	0.0
82.5°	9.7	10.3	13.0	10.8	5.4	2.2	2.2	0.5	0.0	0.0	0.0
85°	1.1	2.2	3.8	4.3	3.8	2.2	2.2	0.5	0.0	0.0	0.0
87.5°	0.0	0.5	2.2	3.2	2.7	1.6	1.1	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°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
2.5°	1.1	1.1	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°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
2.5°	0.5	1.1	1.1	1.1	1.6	1.6	2.2	2.7	2.7	2.7	3.2
5°	0.0	0.0	0.5	0.5	1.1	1.6	2.2	3.2	3.8	3.8	4.3
7.5°	0.0	0.0	0.0	0.5	1.1	1.6	2.2	3.2	4.3	4.9	5.4
10°	0.0	0.0	0.0	0.0	0.5	1.1	2.2	3.8	5.4	6.5	7.6
12.5°	0.0	0.0	0.0	0.0	0.0	0.5	2.2	4.3	6.5	8.1	9.2
15°	0.0	0.0	0.0	0.0	0.0	0.5	2.2	4.3	8.1	9.7	11.9
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.9	9.2	11.9	16.2
20°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.9	10.3	14.6	24.4
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.9	11.4	18.9	44.9
25°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	4.9	13.0	28.1	74.7
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	5.4	15.7	39.5	109.3
30°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	5.4	19.5	53.6	152.6
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	5.4	22.7	67.7	207.9
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	27.1	89.9	260.9
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	33.6	99.1	305.8
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	31.9	107.7	357.3
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	29.2	120.2	437.9
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	29.2	159.1	616.5
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	35.7	247.9	942.4
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	46.0	380.5	1341.9
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	55.8	468.2	1573.6
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	67.1	468.8	1566.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	74.7	419.5	1413.3
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	74.2	406.0	1371.1
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	5.4	65.0	352.4	1196.8
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	8.7	56.8	252.8	992.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	4.3	9.7	52.0	183.5	744.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.4	11.4	49.8	129.9	518.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	6.5	13.0	46.0	93.1	341.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.5	16.2	43.3	73.1	205.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	6.5	20.6	37.9	59.5	110.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.5	22.2	31.4	43.3	67.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	6.0	20.0	22.7	18.9	22.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.2	11.9	4.9	4.9	7.6
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°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
2.5°	3.8	3.8	3.8	3.8	4.3	4.3	6.0	7.6	9.2	9.7
5°	4.9	5.4	6.0	6.0	6.0	6.5	7.6	8.7	10.3	10.8
7.5°	7.0	7.6	8.7	8.7	8.7	9.2	9.7	10.8	11.9	11.9
10°	9.2	10.8	11.4	11.9	12.5	12.5	12.5	13.0	13.5	13.0
12.5°	12.5	14.6	17.3	17.9	17.9	17.9	17.3	16.2	15.2	14.6
15°	17.3	23.8	32.5	35.7	34.1	30.3	26.5	20.6	17.9	16.8
17.5°	31.9	65.0	118.0	130.5	127.7	109.9	64.4	31.4	21.1	18.4
20°	86.1	210.0	346.4	379.5	396.8	328.6	190.0	73.1	26.0	20.0
22.5°	185.7	436.3	676.1	761.6	767.0	617.1	369.7	148.3	37.4	22.7
25°	298.8	697.7	1024.7	1107.5	1109.1	951.1	591.1	240.3	56.8	28.1
27.5°	457.9	978.1	1344.1	1412.8	1411.7	1251.5	854.2	367.0	79.6	34.6
30°	620.9	1196.8	1554.6	1640.2	1648.3	1456.7	1073.9	516.9	103.9	41.7
32.5°	782.2	1358.7	1746.8	1860.5	1853.4	1638.0	1227.1	639.8	145.6	49.3
35°	909.4	1496.7	1959.5	2099.2	2104.6	1837.2	1363.0	758.9	181.3	63.3
37.5°	1018.2	1674.8	2242.6	2403.9	2411.0	2085.1	1505.4	875.8	212.2	69.8
40°	1152.4	1967.1	2711.4	2985.3	2986.4	2547.4	1761.4	1006.8	253.9	72.5
42.5°	1453.9	2593.4	3627.3	4020.8	4054.9	3506.6	2343.3	1291.0	319.4	78.5
45°	2057.0	3418.9	4795.4	5248.5	5291.8	4700.2	3340.9	1947.1	463.4	95.8
47.5°	2774.2	4136.7	5474.2	5910.5	5939.2	5264.7	4008.9	2706.0	788.7	166.2
50°	3215.4	4402.4	5723.8	6140.0	6144.9	5450.4	4218.4	3100.1	1123.8	273.4
52.5°	3352.3	4436.5	5733.5	6236.9	6251.0	5428.8	4247.1	3179.6	1263.4	317.2
55°	3296.5	4416.5	5836.4	6422.0	6437.2	5517.0	4227.6	3092.5	1197.9	304.2
57.5°	3169.3	4494.5	6005.2	6641.8	6641.8	5679.9	4299.6	2946.3	1037.7	276.6
58°	3150.4	4513.9	6014.4	6653.7	6648.9	5690.2	4329.4	2925.2	1002.5	266.3
60°	3124.4	4574.0	5946.2	6477.8	6463.7	5617.7	4383.5	2906.3	832.0	208.9
62.5°	3086.5	4438.7	5449.3	5960.3	5924.0	5109.4	4228.1	2795.3	620.9	155.4
65°	2892.2	3939.1	4542.6	4896.6	4885.3	4203.2	3639.2	2504.1	447.1	115.3
67.5°	2438.0	3083.8	3669.5	4096.1	4098.8	3431.3	2846.2	2001.2	304.2	92.0
70°	1714.9	2274.6	3119.5	3594.3	3615.9	2878.1	2108.4	1333.8	200.8	79.0
72.5°	1024.1	1718.1	2593.9	2954.4	2943.1	2388.2	1564.4	795.2	122.3	70.4
75°	496.4	1026.9	1311.0	1520.5	1511.9	1194.7	833.6	389.7	89.3	63.3
77.5°	134.8	315.6	507.7	660.4	678.3	478.5	273.4	104.5	55.8	47.6
80°	45.5	97.4	165.6	225.2	231.1	206.8	102.8	36.8	24.4	23.8
82.5°	17.3	23.8	30.3	27.1	27.1	28.1	22.2	15.7	11.4	9.7
85°	0.0	0.0	0.5	1.1	1.1	1.6	1.6	1.6	1.1	1.1
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: SP1-2407-184-3

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-727-U-5WQ

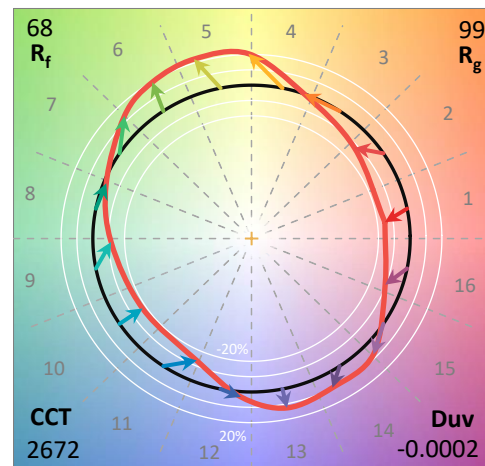
Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-3
 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-727-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K):	2672	CRI (Ra):	71.1		
CIE u':	0.2638	R1:	68.3	R9:	-27.8
CIE v':	0.5276	R2:	79.8	R10:	54.4
Duv:	-0.0002	R3:	91.2	R11:	65.8
CIE x:	0.4619	R4:	69.4	R12:	45.6
CIE y:	0.4106	R5:	66.5	R13:	69.8
CIE z:	0.1275	R6:	72.6	R14:	94.5
Peak Wavelength (nm):	601	R7:	77.0	R15:	60.1
Dominant Wavelength (nm):	584	R8:	44.1		
Purity:	61.88407				
Rf:	67.9				
Rg:	98.6				



Test Conditions

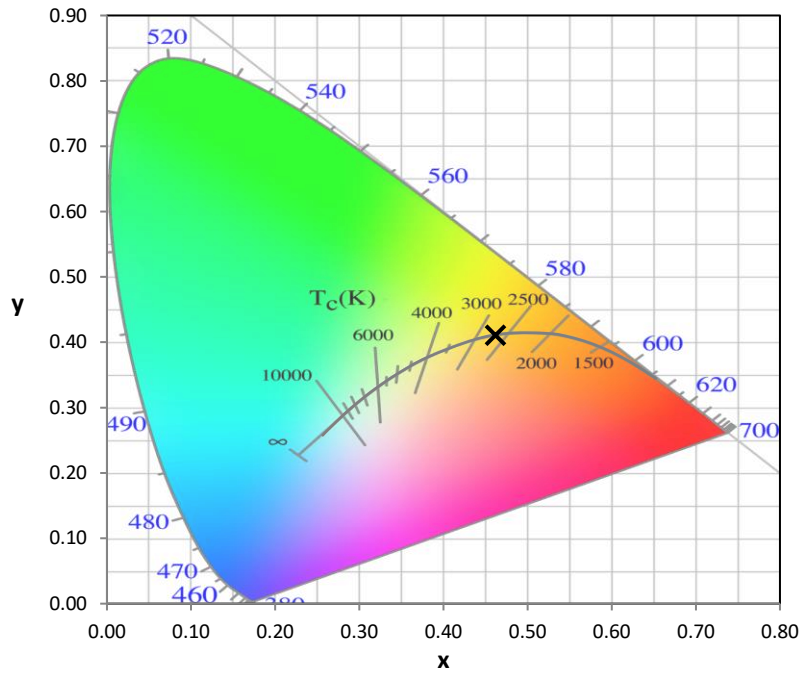
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-3

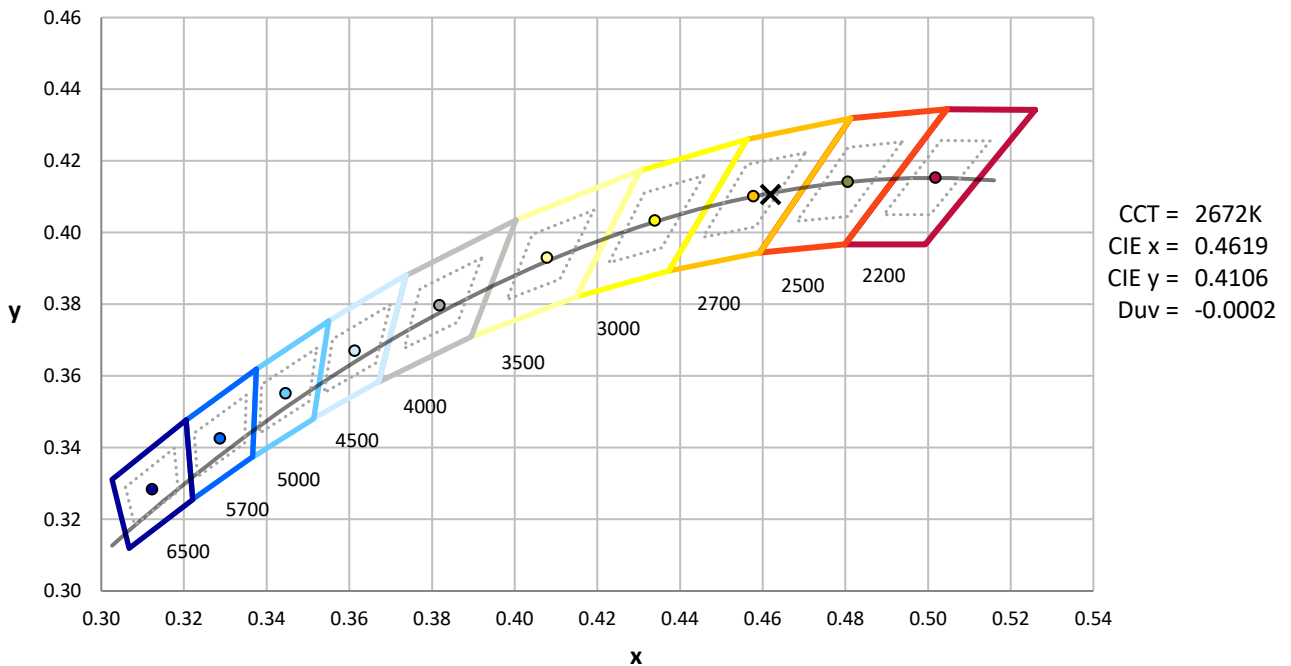
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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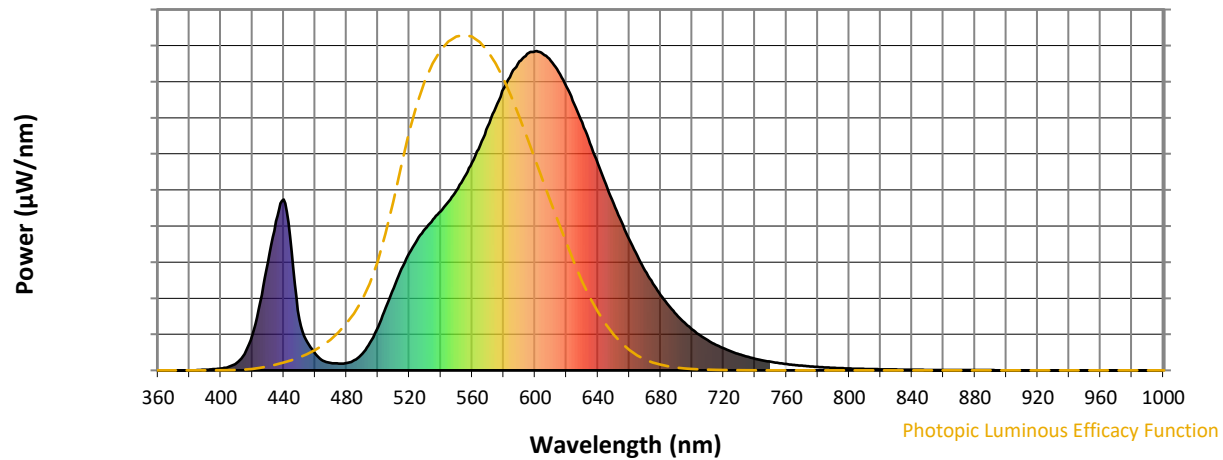
CIE 1931 Chromaticity Diagram



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



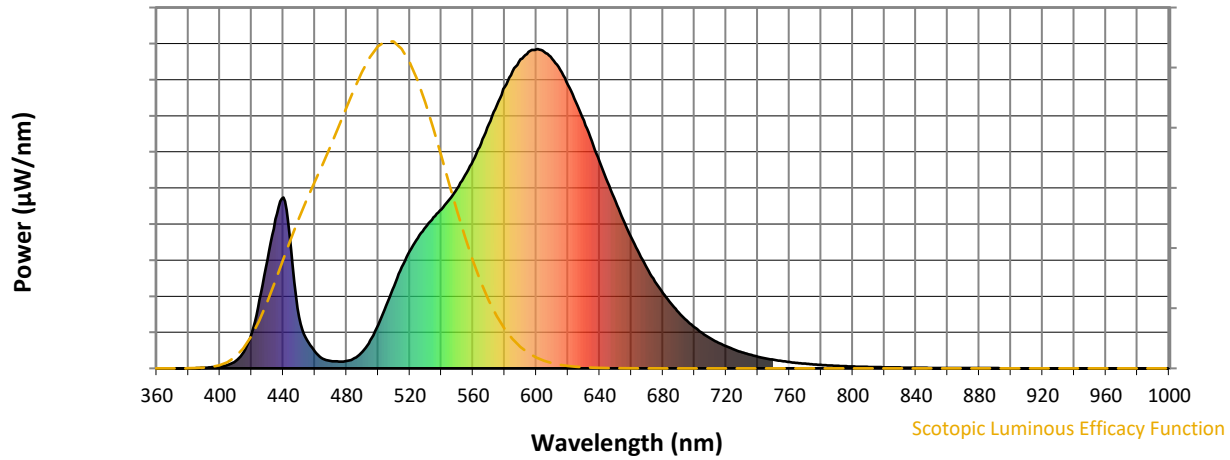
REPORT NUMBER: SP1-2407-184-3

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Scotopic Flux vs. Wavelength



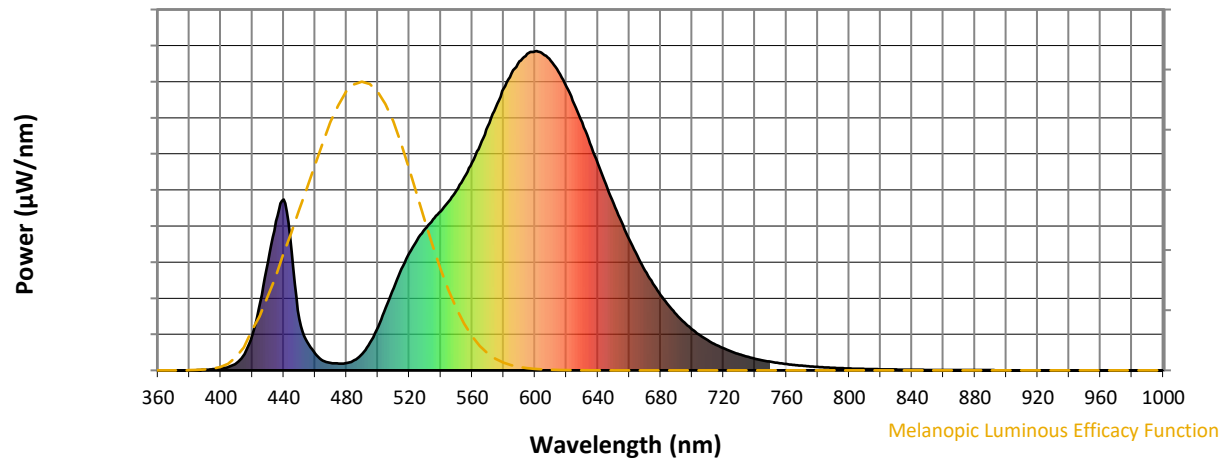
Scotopic Lumens: NR

S/P: 1.02

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.71

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

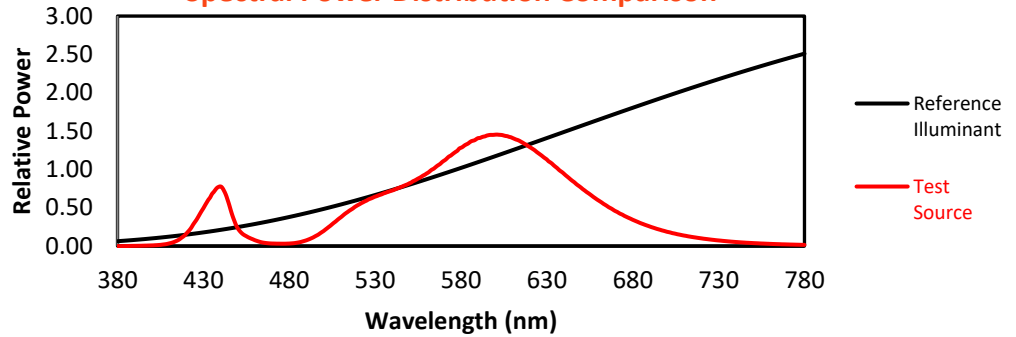
REPORT NUMBER: SP1-2407-184-3

TM-30-18

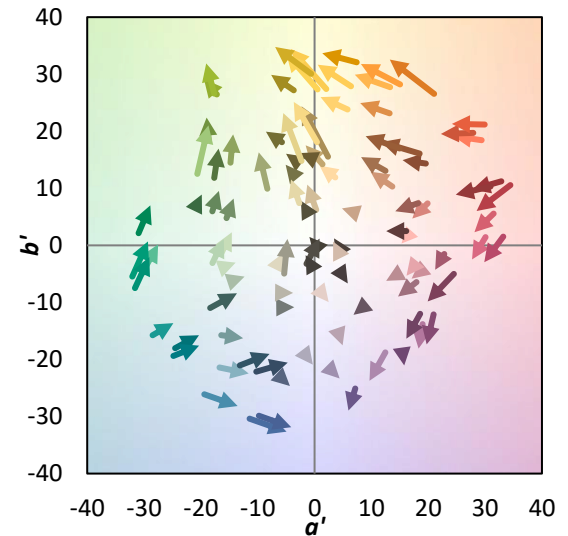
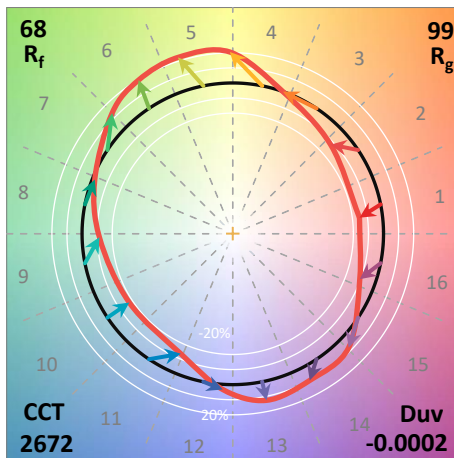
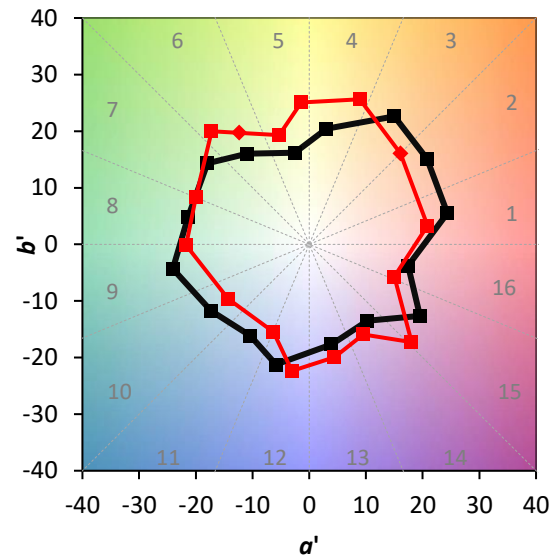
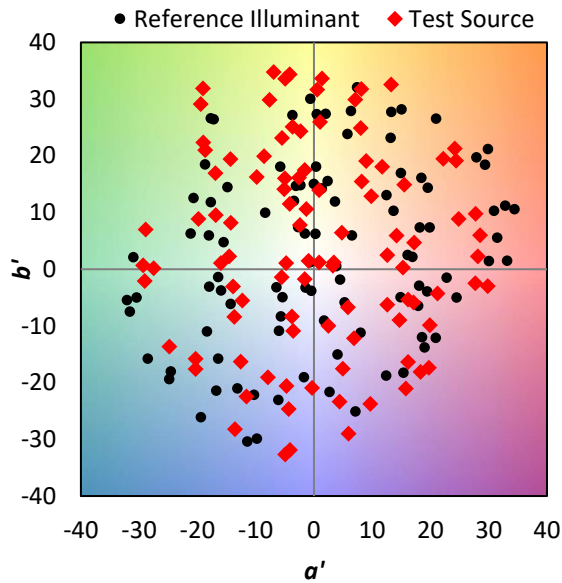
Summary

$R_f = 67.9$
 $R_g = 98.6$
 $CIE\ R_a = 71.1$
 $R_g = -27.8$

Spectral Power Distribution Comparison

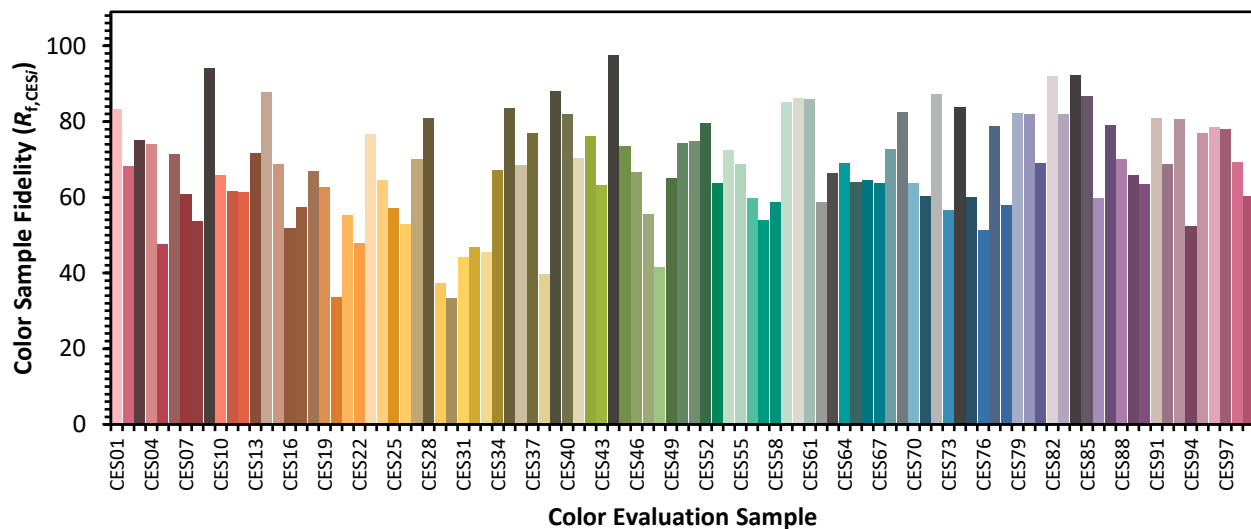


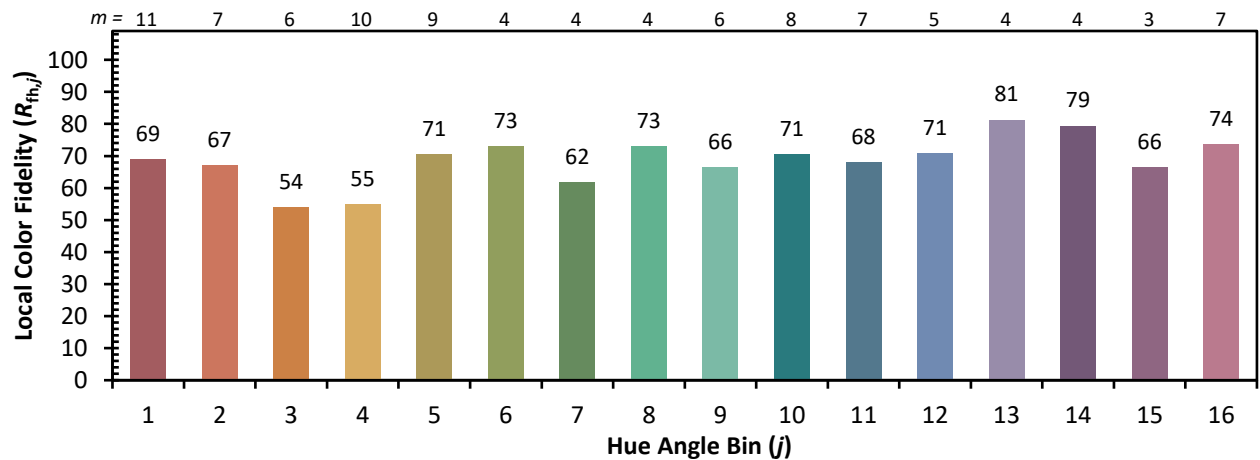
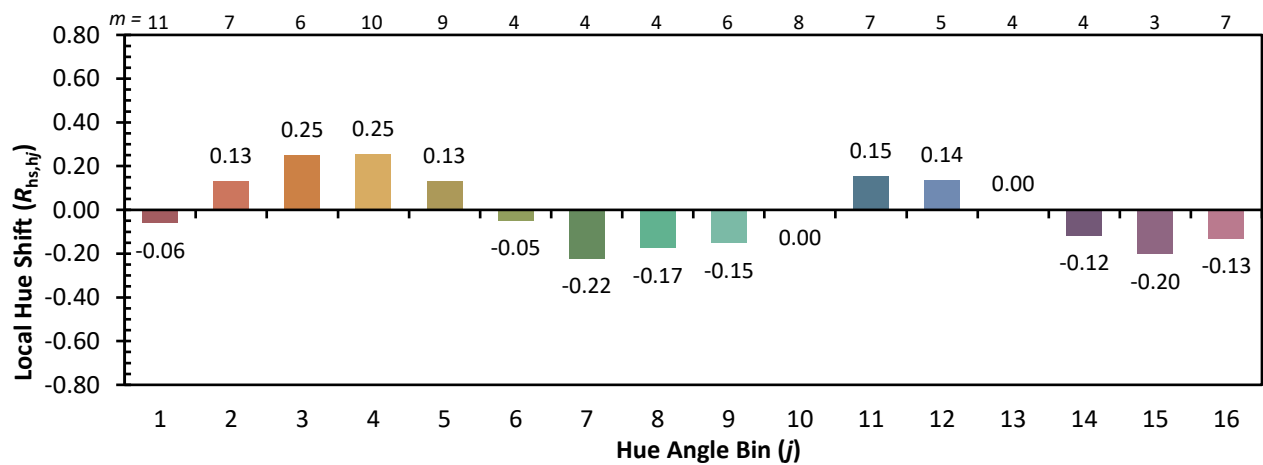
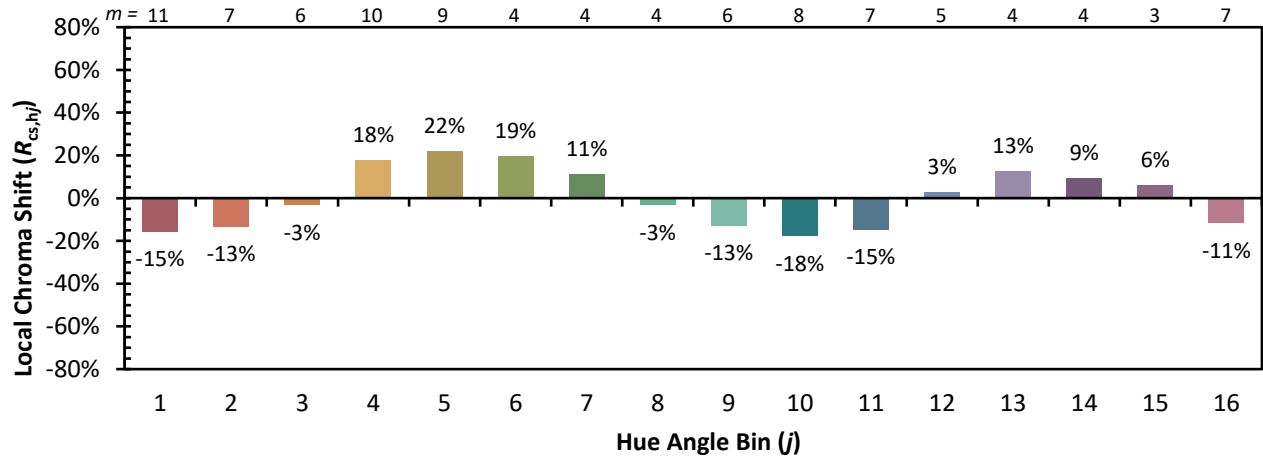
Color Vector Graphics



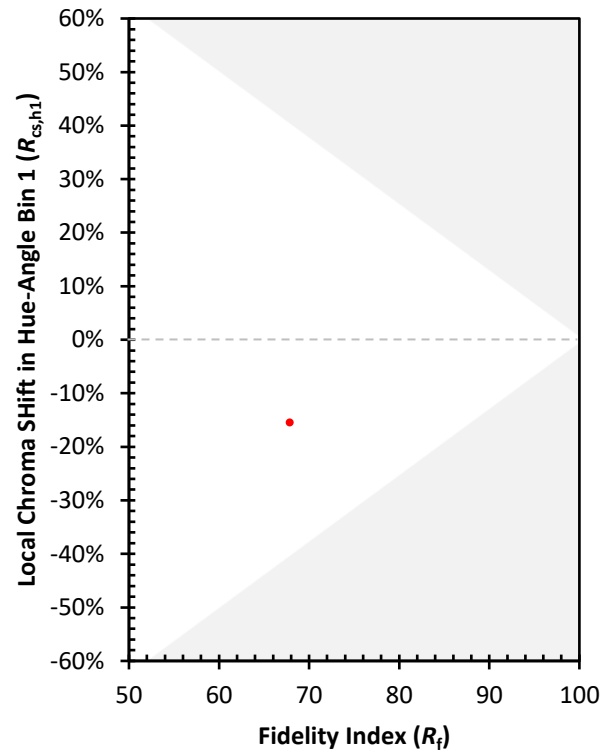
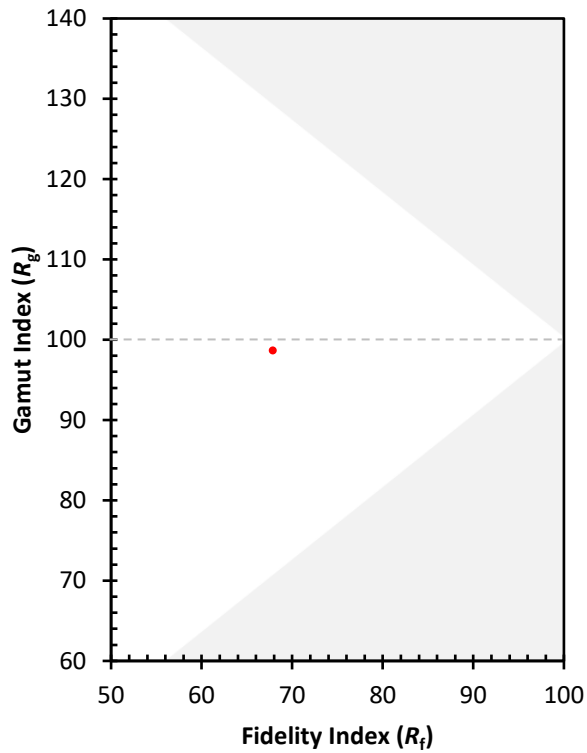
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 53	CES51 = 75	CES76 = 51
CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 54	CES82 = 92
CES08 = 41	CES33 = 45	CES58 = 59	CES83 = 82
CES09 = 29	CES34 = 67	CES59 = 85	CES84 = 92
CES10 = 77	CES35 = 84	CES60 = 86	CES85 = 87
CES11 = 60	CES36 = 68	CES61 = 86	CES86 = 60
CES12 = 66	CES37 = 77	CES62 = 59	CES87 = 79
CES13 = 44	CES38 = 40	CES63 = 66	CES88 = 70
CES14 = 74	CES39 = 88	CES64 = 69	CES89 = 66
CES15 = 72	CES40 = 82	CES65 = 64	CES90 = 64
CES16 = 48	CES41 = 70	CES66 = 65	CES91 = 81
CES17 = 51	CES42 = 76	CES67 = 64	CES92 = 69
CES18 = 57	CES43 = 63	CES68 = 73	CES93 = 81
CES19 = 73	CES44 = 97	CES69 = 83	CES94 = 53
CES20 = 67	CES45 = 74	CES70 = 64	CES95 = 77
CES21 = 88	CES46 = 67	CES71 = 60	CES96 = 79
CES22 = 80	CES47 = 55	CES72 = 87	CES97 = 78
CES23 = 92	CES48 = 42	CES73 = 57	CES98 = 69
CES24 = 92	CES49 = 65	CES74 = 84	CES99 = 60
CES25 = 73	CES50 = 74	CES75 = 60	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)