

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: P1049539

Luminaire Tested: **GALN-SA2C-727-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049539
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-727-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 2xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9410.2 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 96.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

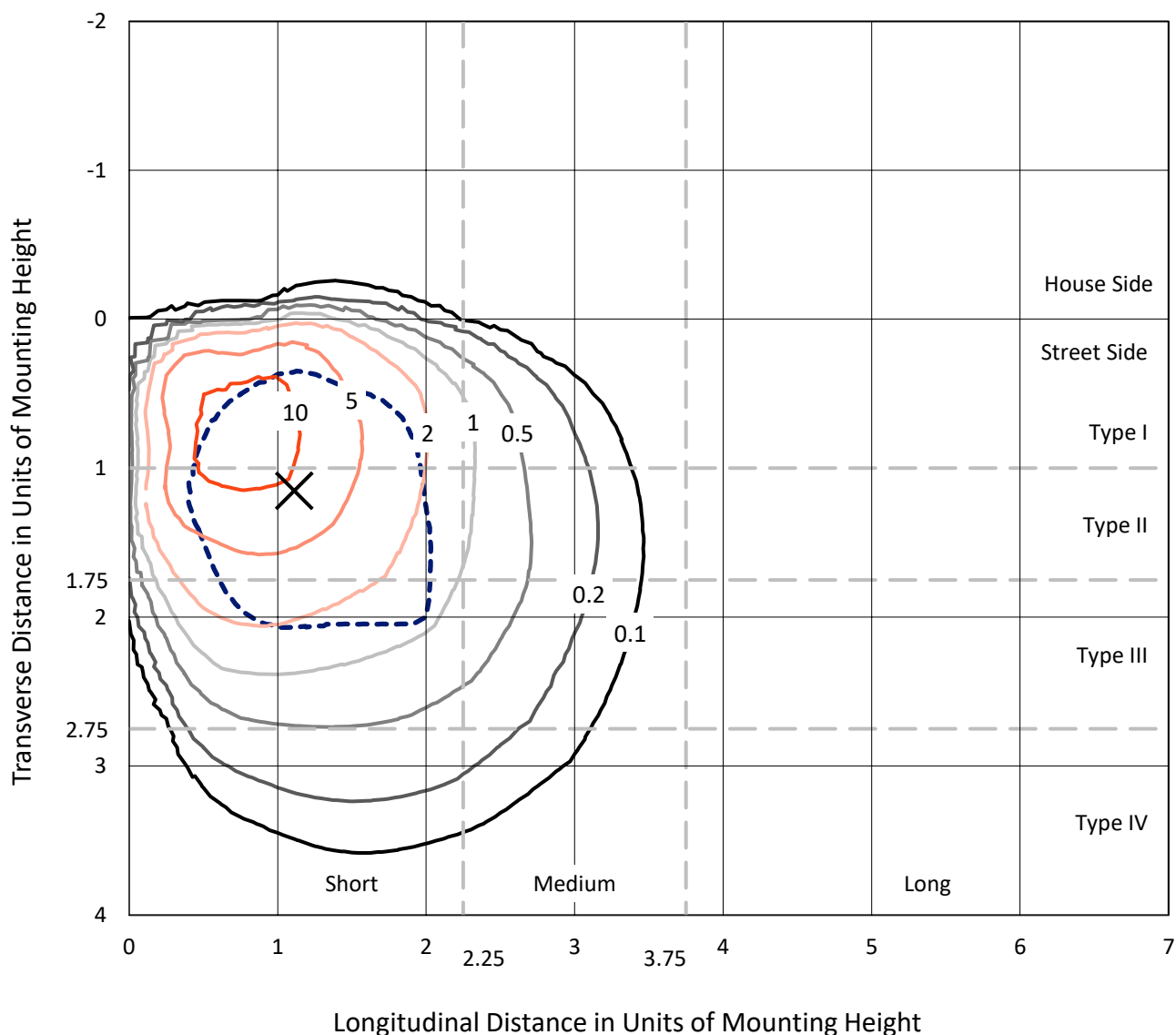
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



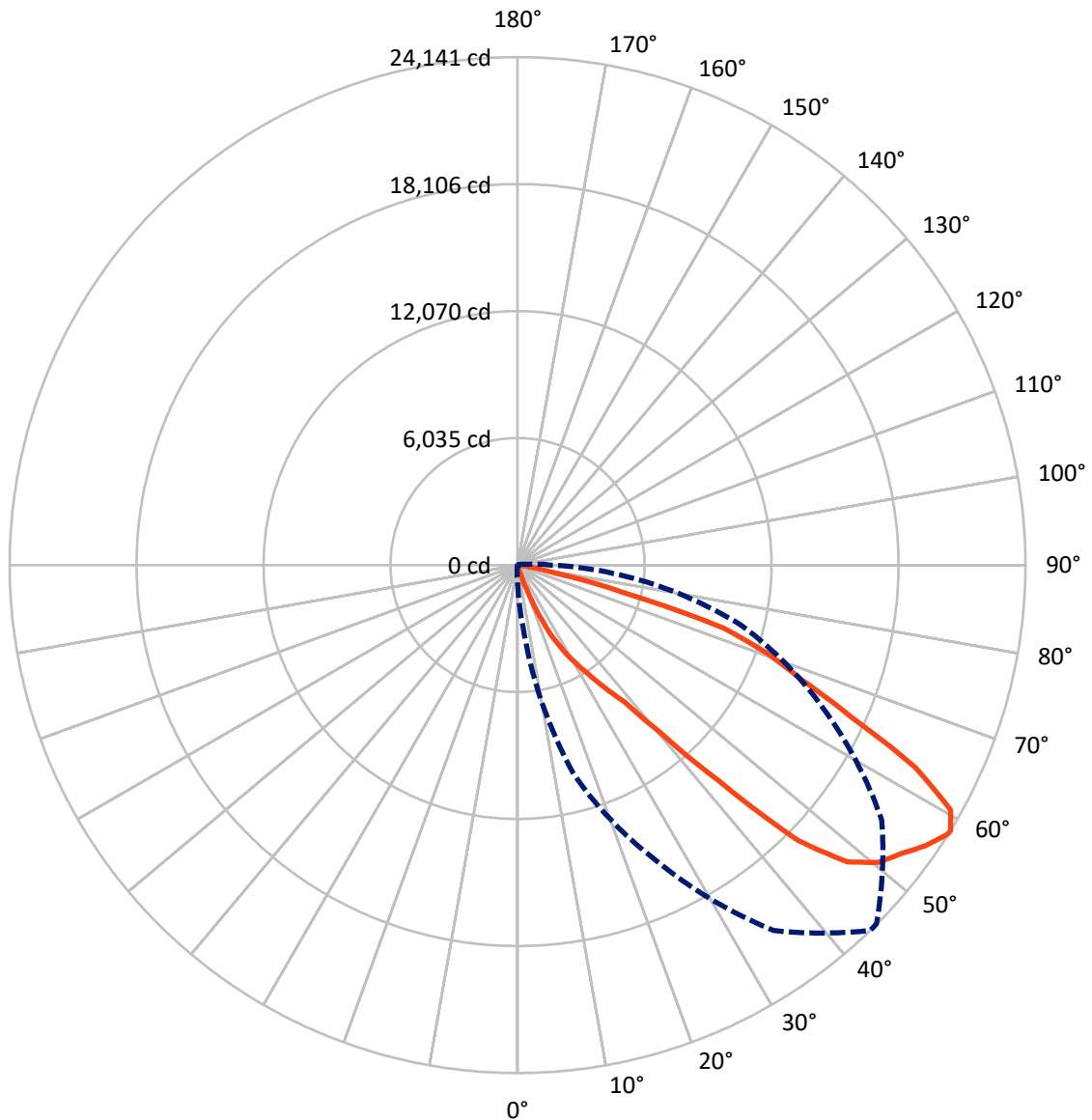
Based on 20 foot mounting height. Maximum calculated value = 16.4 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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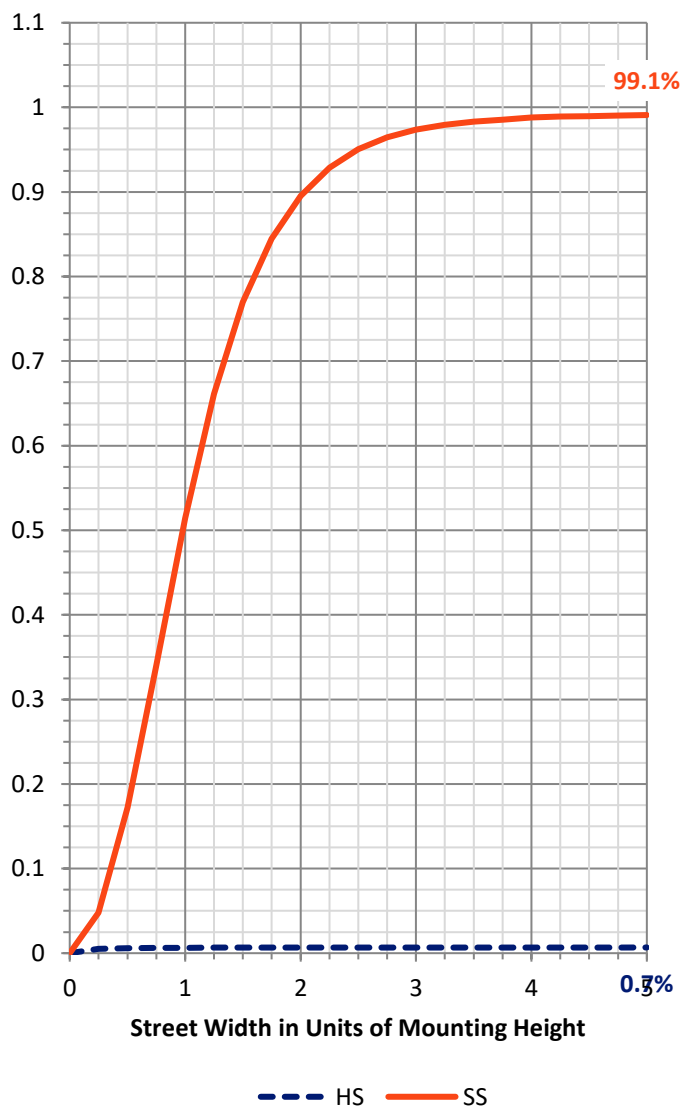
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	64.3	0.0	64.3
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	9346.0	0.0	9346.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	9410.2	0.0	9410.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.7	0.0
10°-20°	20.6	0.2
20°-30°	222.9	2.4
30°-40°	659.3	7.0
40°-50°	1965.0	20.9
50°-60°	3118.0	33.1
60°-70°	2600.8	27.6
70°-80°	802.1	8.5
80°-90°	17.8	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°	9410.2	100.0
0°-180°	9410.2	100.0



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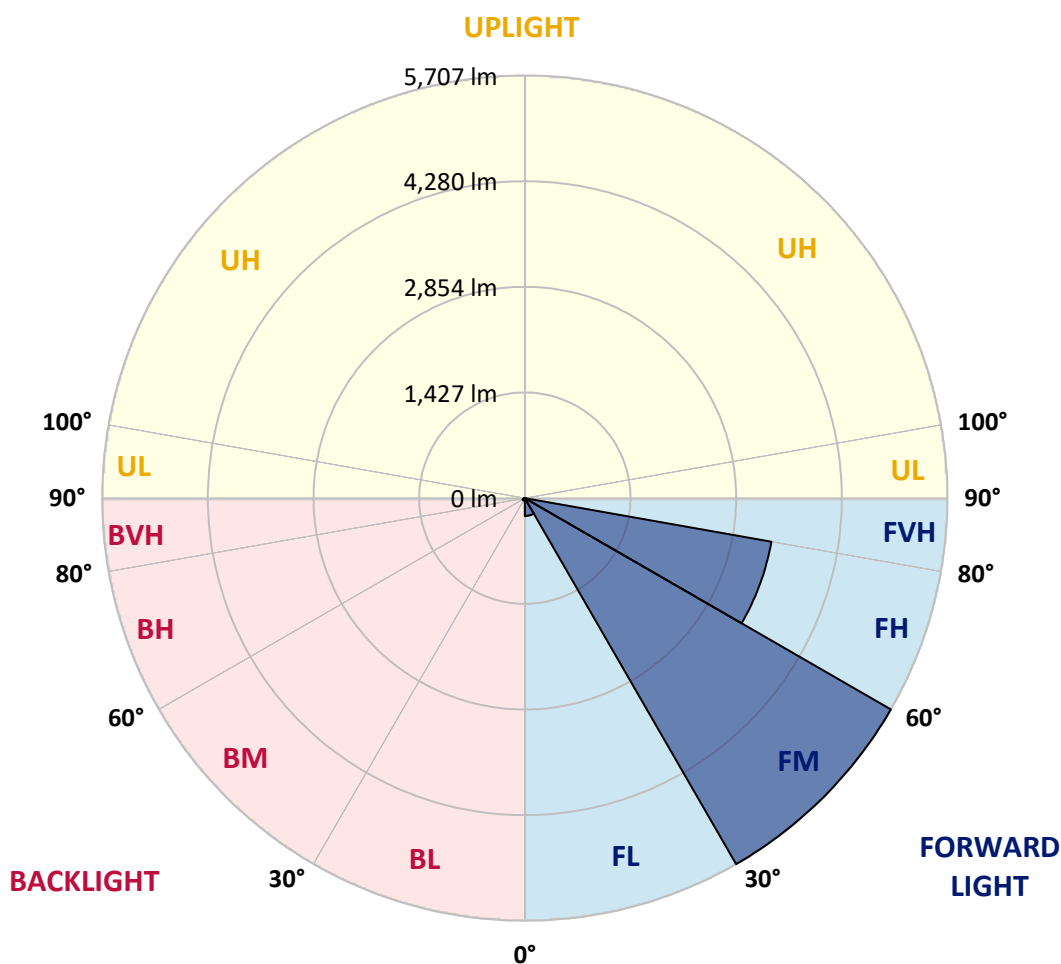
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	241.0	2.6			
FM	(30°-60°)	5707.1	60.6			
FH	(60°-80°)	3381.0	35.9			G2/5000
FVH	(80°-90°)	17.0	0.2			G1/100
BL	(0°-30°)	6.3	0.1	B0/110		
BM	(30°-60°)	35.2	0.4	B0/220		
BH	(60°-80°)	21.9	0.2	B0/110		G0/110
BVH	(80°-90°)	0.9	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°	44°	45°	55°	65°	75°	85°
0°	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
2.5°	53.3	53.3	51.2	48.3	45.5	42.7	41.9	40.5	39.8	39.1	38.4
5°	55.4	55.4	54.7	52.6	49.8	47.6	47.6	45.5	44.1	42.7	41.2
7.5°	56.9	57.6	59.0	58.3	56.9	54.7	54.7	53.3	51.2	47.6	45.5
10°	59.0	61.1	64.0	65.4	66.1	66.1	65.4	64.7	61.1	56.2	50.5
12.5°	61.1	65.4	72.5	79.6	83.9	89.6	88.9	87.4	78.2	67.5	57.6
15°	65.4	71.8	86.7	107.3	139.3	159.2	167.1	159.9	129.4	91.0	66.8
17.5°	70.4	81.0	125.8	224.6	368.2	436.5	477.7	444.3	294.3	172.7	83.9
20°	75.4	98.8	233.9	582.2	955.4	1178.6	1240.5	1143.8	734.3	329.1	124.4
22.5°	83.9	138.6	474.1	1203.5	2058.7	2393.5	2456.7	2147.5	1386.9	649.7	187.0
25°	101.7	201.2	817.5	1961.3	3072.3	3637.5	3611.2	3206.0	2249.9	1037.9	284.3
27.5°	127.2	292.9	1236.2	2786.6	4043.4	4541.7	4601.4	4100.3	2999.1	1526.2	403.8
30°	164.2	405.9	1685.5	3447.7	4821.8	5360.6	5370.6	4852.3	3669.5	1954.9	550.2
32.5°	199.8	512.5	2078.6	4086.7	5588.8	6179.5	6223.6	5586.0	4169.9	2401.3	677.5
35°	226.8	582.2	2476.6	4648.3	6362.2	7176.1	7173.3	6416.2	4762.8	2800.1	853.7
37.5°	228.9	651.9	2837.0	5222.7	7341.8	8253.1	8343.4	7508.8	5479.3	3293.4	1069.8
40°	223.9	730.1	3293.4	6118.4	9106.8	10505.1	10584.7	9532.7	6916.7	4137.9	1407.5
42.5°	229.6	865.8	4034.1	7772.6	12037.7	14045.9	14199.5	13093.4	9559.0	5861.1	2009.6
45°	259.5	1121.0	5586.0	10539.9	16215.5	18663.7	18612.5	17019.5	12633.4	8484.1	3201.0
47.5°	358.3	1745.9	7886.3	13233.4	18885.5	21065.7	21109.8	19162.7	14427.6	10500.8	4805.4
50°	550.9	2671.4	9819.1	14657.3	20033.5	22220.8	22179.6	19929.7	15109.4	11493.9	5788.5
52.5°	716.5	3341.1	10788.7	15157.0	20180.7	22791.6	22788.8	20131.6	15215.3	11579.2	5911.5
55°	757.8	3391.5	10796.6	15184.0	20510.5	23538.8	23632.6	20628.5	15352.5	11206.7	5448.8
57.5°	741.4	3002.7	10345.9	15340.4	21097.7	24116.7	24121.7	21109.8	15700.8	10978.5	4682.4
58°	727.2	2941.5	10254.9	15429.3	21198.6	24140.9	24128.8	21131.8	15984.4	10970.0	4562.3
60°	647.6	2554.1	9900.2	15656.0	21048.6	23644.7	23531.7	20650.5	15942.5	10882.6	3957.4
62.5°	509.0	1992.5	9551.1	15393.7	19440.6	21242.7	21289.6	18282.7	14533.6	10372.9	3244.4
65°	405.2	1485.0	8823.2	13502.8	16008.6	17444.5	17619.4	14867.0	12130.9	8783.4	2392.0
67.5°	322.7	1073.4	7401.5	10750.4	12667.6	14559.2	14686.4	12482.0	9398.3	6729.7	1699.7
70°	262.3	725.8	5109.0	7862.1	10448.2	12575.1	12583.0	10369.3	7014.8	4409.5	1066.3
72.5°	232.5	502.6	2965.7	5733.8	8472.1	10247.1	10040.2	8414.5	5391.2	2611.7	635.5
75°	201.2	333.4	1454.4	3505.3	5136.7	5171.5	5250.4	3903.3	2694.9	1241.9	381.0
77.5°	165.6	236.7	573.0	957.5	1540.4	1971.9	2045.1	1549.7	896.4	305.7	203.3
80°	113.7	112.3	154.3	293.6	440.7	552.3	515.4	398.8	234.6	117.3	72.5
82.5°	49.0	53.3	69.7	83.9	68.2	66.1	63.3	40.5	31.3	24.2	14.9
85°	15.6	14.2	14.9	14.9	12.1	9.2	9.2	4.3	0.0	0.0	0.0
87.5°	7.8	6.4	6.4	5.7	3.6	1.4	0.7	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°	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
2.5°	37.7	37.7	36.3	34.8	34.1	32.7	32.0	31.3	30.6	29.9	29.1
5°	39.8	39.1	37.0	34.8	32.7	30.6	29.1	27.7	26.3	25.6	24.9
7.5°	43.4	41.9	37.7	34.1	31.3	28.4	27.0	24.9	23.5	21.3	20.6
10°	47.6	44.8	39.1	34.8	30.6	27.0	24.9	22.7	20.6	17.8	17.1
12.5°	53.3	48.3	41.2	34.1	29.1	24.9	22.7	19.9	17.8	15.6	14.2
15°	58.3	51.9	41.9	34.1	27.7	22.7	19.9	17.1	14.9	12.1	10.7
17.5°	65.4	54.7	41.2	32.0	25.6	19.9	17.1	14.9	11.4	7.1	5.7
20°	77.5	56.9	39.8	29.9	22.0	16.3	12.8	10.0	5.0	1.4	0.0
22.5°	96.7	62.6	38.4	27.0	19.2	12.8	8.5	3.6	0.0	0.0	0.0
25°	133.6	72.5	38.4	25.6	17.1	9.2	2.8	0.0	0.0	0.0	0.0
27.5°	177.7	86.0	38.4	22.0	13.5	5.0	0.0	0.0	0.0	0.0	0.0
30°	222.5	100.9	38.4	19.2	10.7	0.7	0.0	0.0	0.0	0.0	0.0
32.5°	265.2	113.7	39.1	16.3	7.1	0.0	0.0	0.0	0.0	0.0	0.0
35°	308.5	115.9	38.4	14.2	4.3	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	364.0	111.6	36.3	12.8	2.1	0.0	0.0	0.0	0.0	0.0	0.0
40°	447.8	113.7	34.1	12.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	602.8	123.0	31.3	12.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1042.1	164.9	28.4	12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1723.8	296.4	27.7	12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2200.1	373.2	29.1	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2196.6	415.9	30.6	14.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0
55°	1952.7	423.7	32.7	15.6	9.2	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1632.1	386.7	37.7	19.2	17.1	0.0	0.0	0.0	0.0	0.0	0.0
58°	1575.3	369.6	39.1	19.9	18.5	0.0	0.0	0.0	0.0	0.0	0.0
60°	1290.9	301.4	49.8	24.9	24.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	891.4	263.0	56.9	32.0	25.6	0.0	0.0	0.0	0.0	0.0	0.0
65°	630.5	237.4	61.8	34.1	20.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	471.3	218.9	68.2	34.8	10.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	361.1	205.4	83.9	37.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	294.3	189.8	101.7	38.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	243.8	171.3	98.1	41.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	162.1	132.9	89.6	41.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	56.9	52.6	69.7	37.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.5	7.1	10.0	12.8	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°	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
2.5°	29.1	29.1	28.4	29.1	29.1	30.6	34.1	39.1	44.8	46.9	49.0
5°	24.2	23.5	22.7	22.7	22.7	24.9	27.7	33.4	39.8	42.7	44.1
7.5°	19.9	19.2	18.5	17.8	17.8	19.2	22.7	29.1	35.5	38.4	40.5
10°	16.3	14.9	14.2	13.5	13.5	14.9	18.5	24.9	32.0	34.8	37.7
12.5°	13.5	11.4	10.0	9.2	8.5	10.7	14.2	19.9	27.7	31.3	34.1
15°	9.2	7.1	5.0	4.3	3.6	5.7	9.2	15.6	23.5	27.7	30.6
17.5°	5.0	2.1	0.7	0.0	0.0	1.4	4.3	11.4	19.2	22.7	26.3
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	14.2	17.8	21.3
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	8.5	12.1	15.6
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	6.4	9.2
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.3
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	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	4.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.7	7.8
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°	315°	316°	325°	335°	345°	355°	360°
0°	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
2.5°	50.5	49.8	48.3	46.9	46.9	46.9	49.0	51.2	53.3	53.3
5°	46.9	46.9	46.2	44.8	44.8	45.5	48.3	51.9	54.7	55.4
7.5°	43.4	44.8	43.4	42.7	43.4	44.1	46.9	51.2	55.4	56.9
10°	41.2	41.9	41.9	41.2	41.2	42.7	45.5	51.2	56.9	59.0
12.5°	38.4	39.8	39.1	39.1	39.1	40.5	44.1	50.5	58.3	61.1
15°	35.5	37.7	37.7	37.0	37.0	37.7	42.7	49.8	60.4	65.4
17.5°	32.7	34.8	35.5	34.1	34.1	35.5	40.5	49.8	61.8	70.4
20°	27.0	30.6	32.7	30.6	30.6	32.0	37.0	46.9	62.6	75.4
22.5°	21.3	24.9	27.7	27.0	27.0	27.7	34.1	44.8	63.3	83.9
25°	15.6	19.2	21.3	22.7	22.7	24.9	31.3	43.4	66.1	101.7
27.5°	9.2	13.5	16.3	17.8	18.5	21.3	29.1	41.9	71.1	127.2
30°	4.3	7.8	11.4	14.2	14.2	19.2	27.0	40.5	77.5	164.2
32.5°	0.0	3.6	5.7	10.0	10.7	15.6	24.9	39.1	86.7	199.8
35°	0.0	0.0	2.8	7.8	7.8	12.8	22.7	37.7	100.9	226.8
37.5°	0.0	0.0	0.0	5.7	6.4	11.4	22.0	37.0	103.8	228.9
40°	0.0	0.0	0.0	4.3	5.0	10.7	22.0	37.7	93.8	223.9
42.5°	0.0	0.0	0.0	2.8	3.6	10.7	22.0	39.1	84.6	229.6
45°	0.0	0.0	0.0	2.1	2.8	11.4	21.3	38.4	79.6	259.5
47.5°	0.0	0.0	0.0	2.8	4.3	11.4	20.6	37.7	80.3	358.3
50°	0.0	0.0	0.0	3.6	5.0	11.4	21.3	36.3	88.1	550.9
52.5°	0.0	0.0	0.0	2.8	4.3	12.8	23.5	35.5	96.0	716.5
55°	0.0	0.0	0.0	0.7	2.1	16.3	25.6	35.5	108.1	757.8
57.5°	0.0	0.0	0.0	0.0	0.0	18.5	29.1	37.7	128.0	741.4
58°	0.0	0.0	0.0	0.0	0.0	18.5	29.9	37.7	129.4	727.2
60°	0.0	0.0	0.0	0.0	0.0	18.5	32.7	41.9	139.3	647.6
62.5°	0.0	0.0	0.0	0.0	0.0	15.6	39.1	52.6	145.0	509.0
65°	0.0	0.0	0.0	0.0	0.0	12.8	46.2	57.6	149.3	405.2
67.5°	0.0	0.0	0.0	0.0	0.0	12.1	47.6	58.3	151.4	322.7
70°	0.0	0.0	0.0	0.0	0.0	12.8	46.9	62.6	158.5	262.3
72.5°	0.0	0.0	0.0	0.0	0.0	14.2	42.7	69.0	158.5	232.5
75°	0.0	0.0	0.0	0.0	0.0	14.9	39.8	77.5	144.3	201.2
77.5°	0.0	0.0	0.0	0.0	0.0	14.2	39.1	90.3	128.7	165.6
80°	1.4	2.1	2.1	1.4	1.4	12.1	38.4	91.7	109.5	113.7
82.5°	4.3	5.7	5.0	3.6	3.6	10.7	34.1	76.8	56.9	49.0
85°	7.8	9.2	9.2	7.8	7.8	10.0	21.3	27.7	19.2	15.6
87.5°	10.7	12.1	12.1	10.7	10.7	10.0	9.2	8.5	7.8	7.8
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

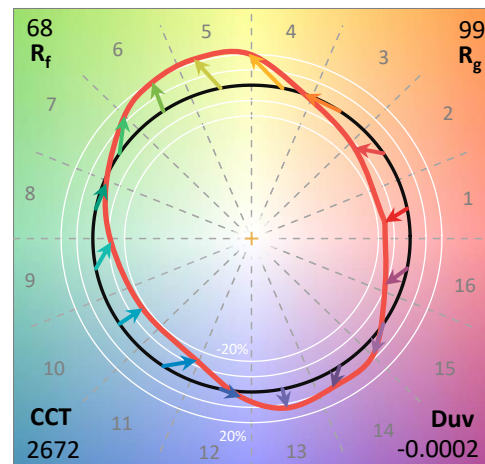
Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

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

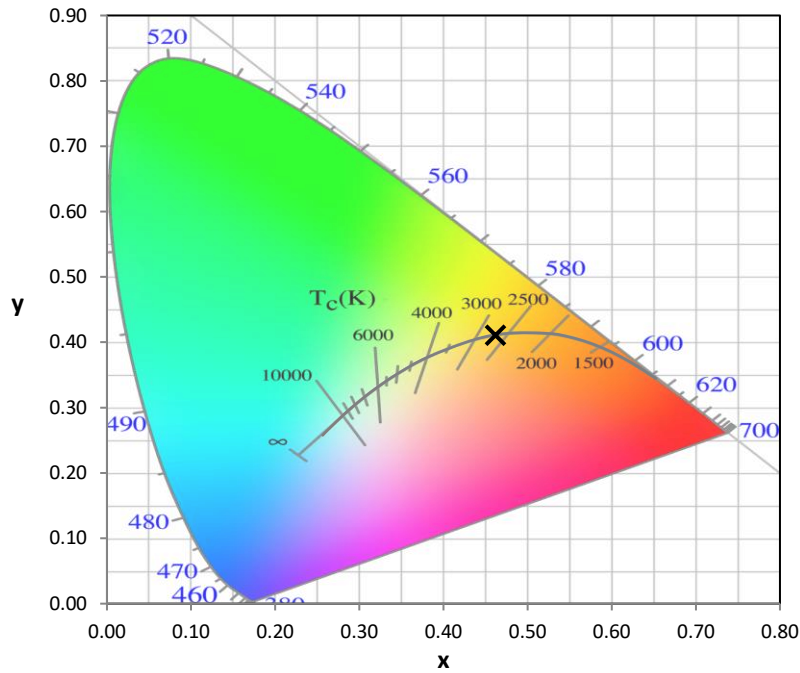
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-3

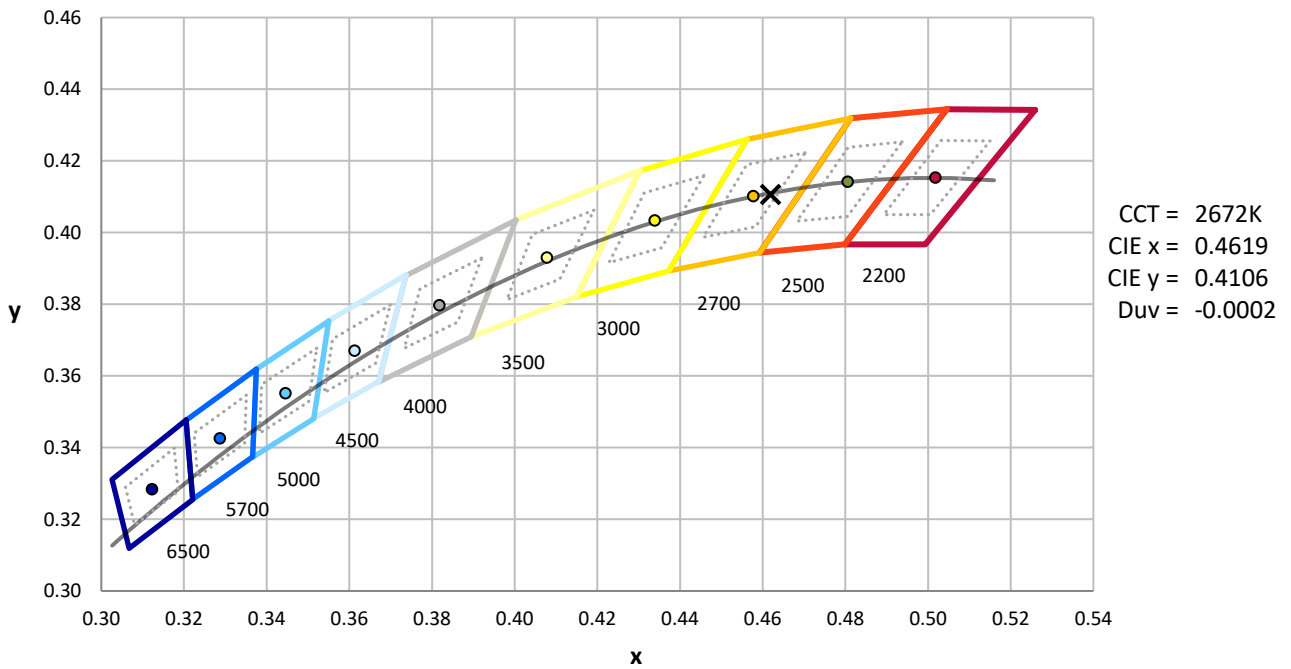
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram

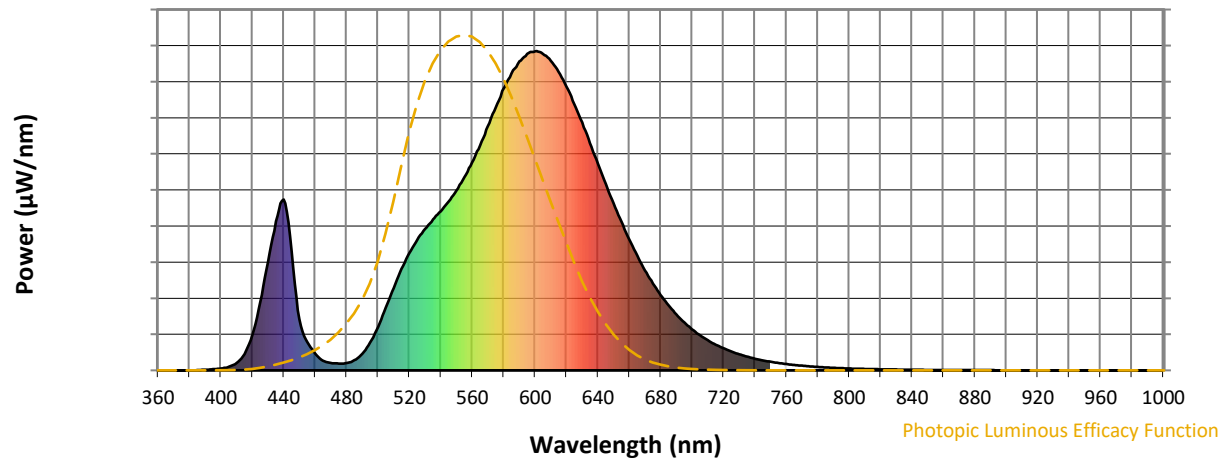


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



REPORT NUMBER: SP1-2407-184-3

Photopic Flux vs. Wavelength

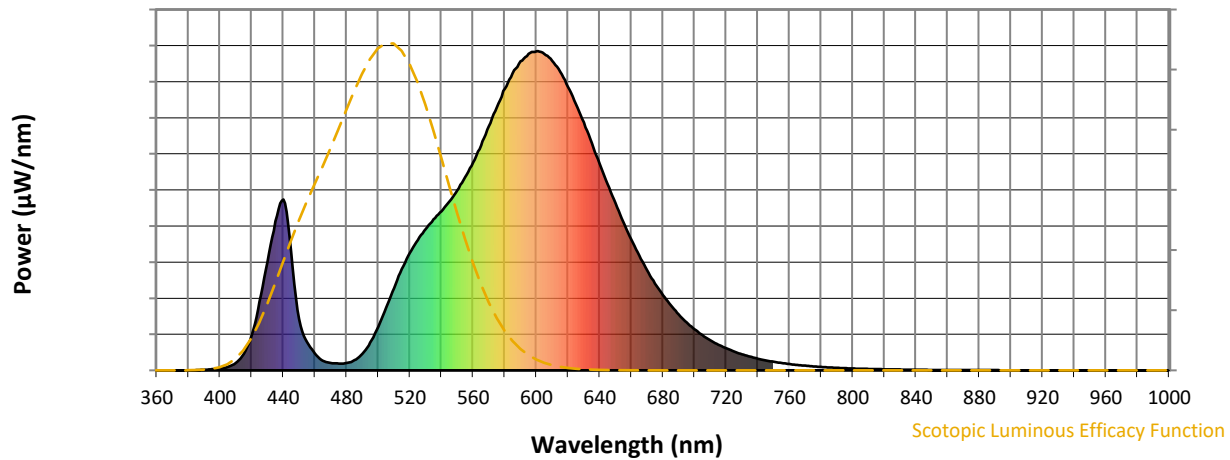


Photopic Lumens: NR

λ (nm)	Power W ^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

Scotopic Flux vs. Wavelength



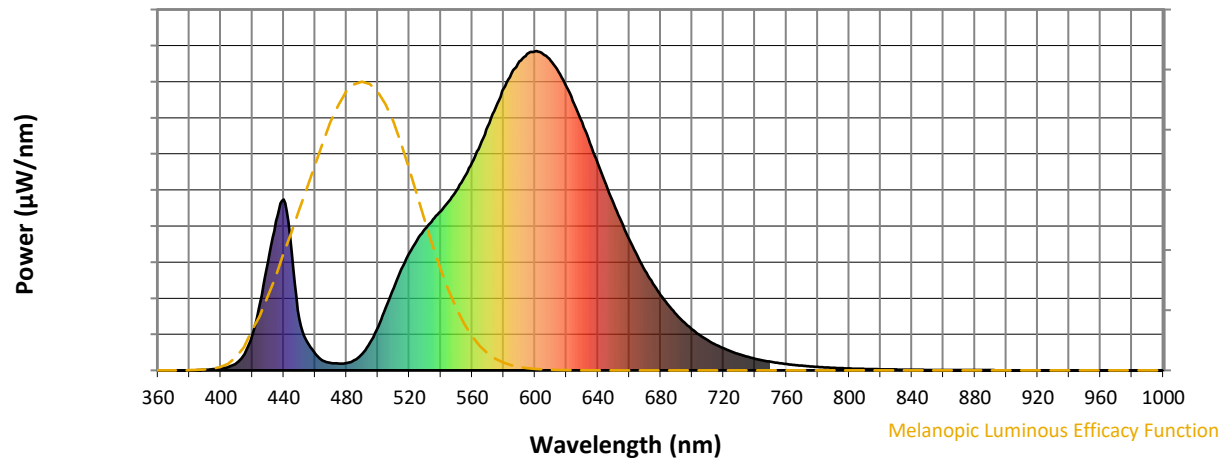
Scotopic Lumens: NR

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			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 1.71

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	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			

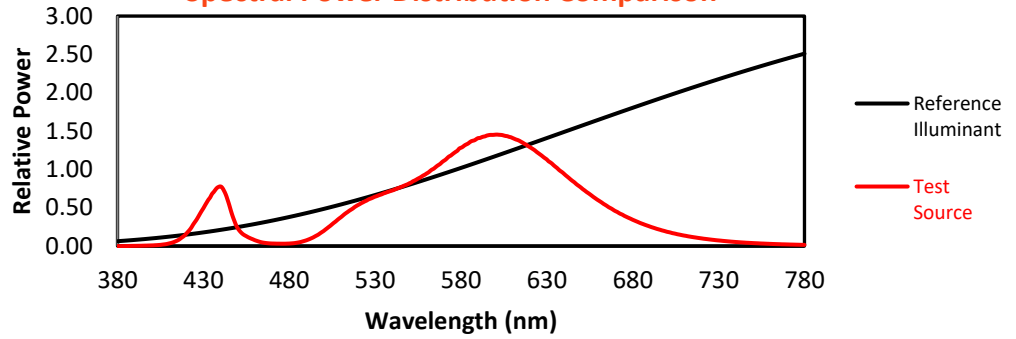
REPORT NUMBER: SP1-2407-184-3

TM-30-18

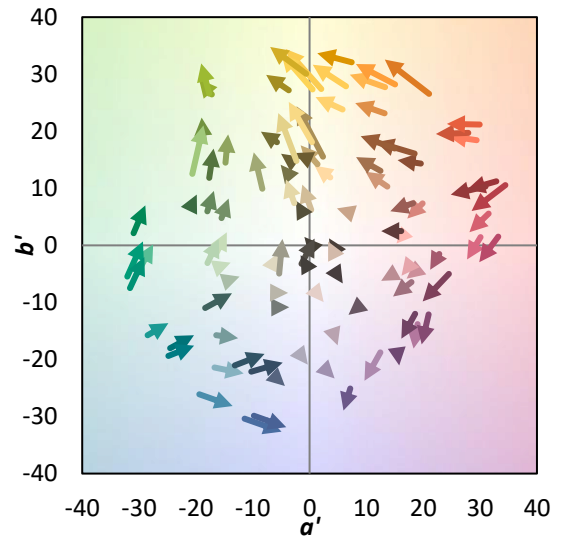
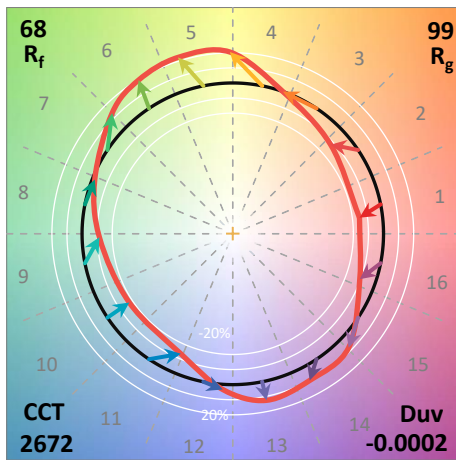
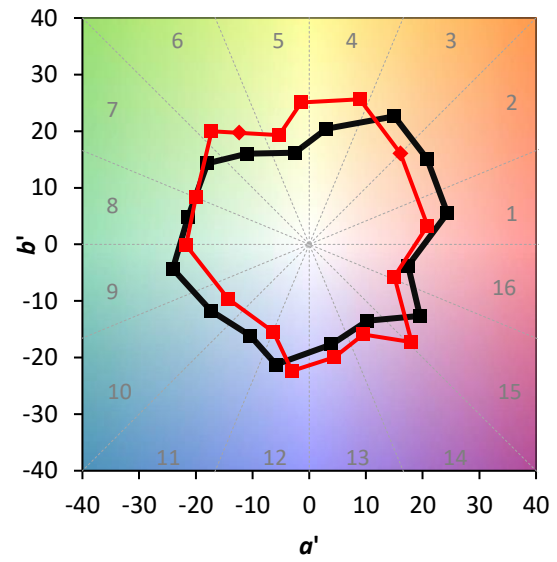
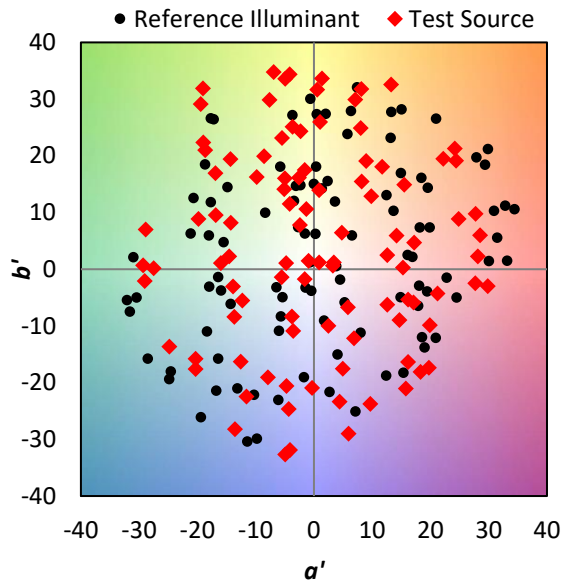
Summary

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

Spectral Power Distribution Comparison

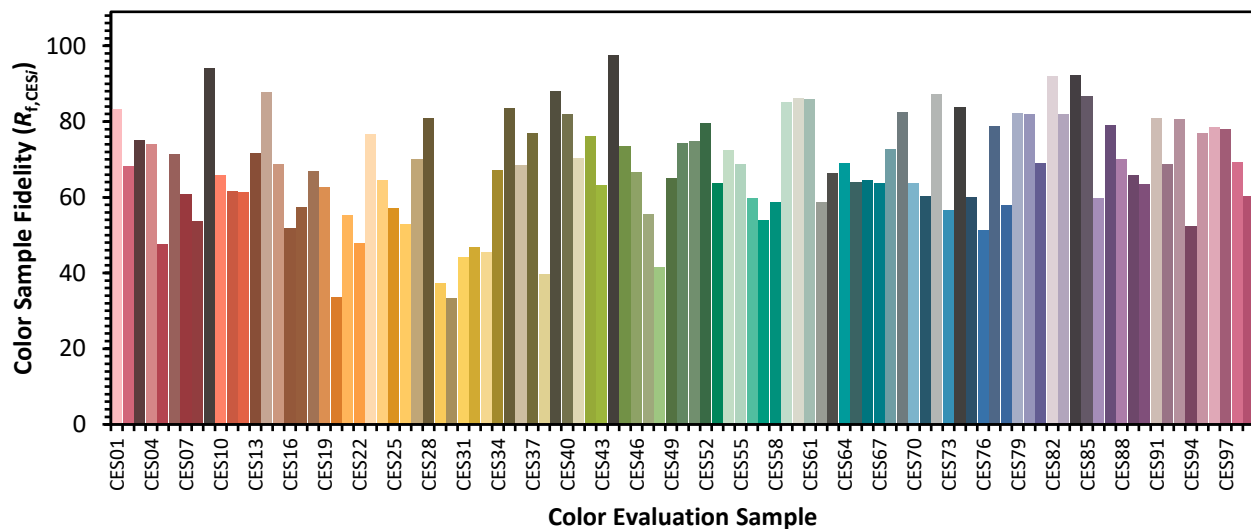


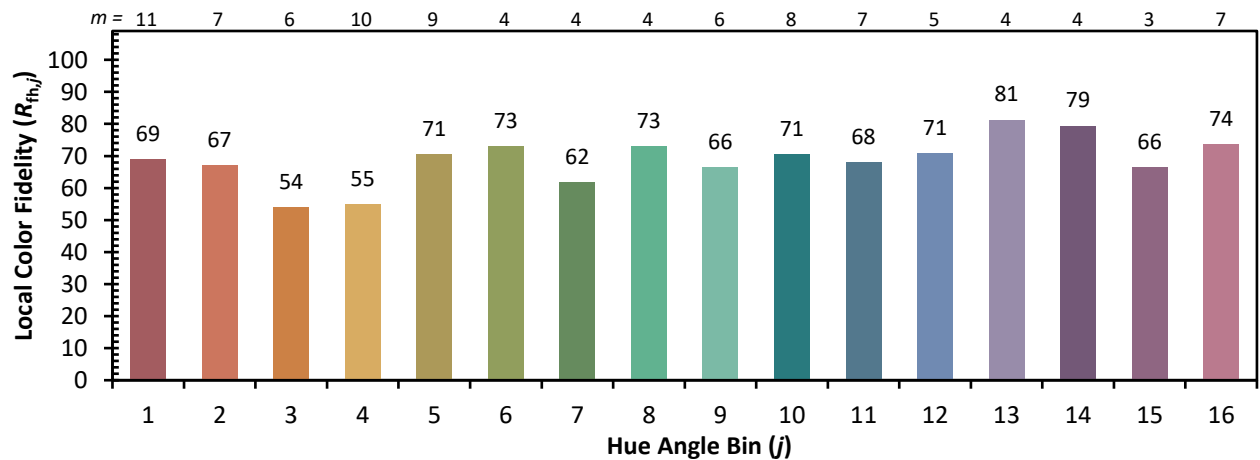
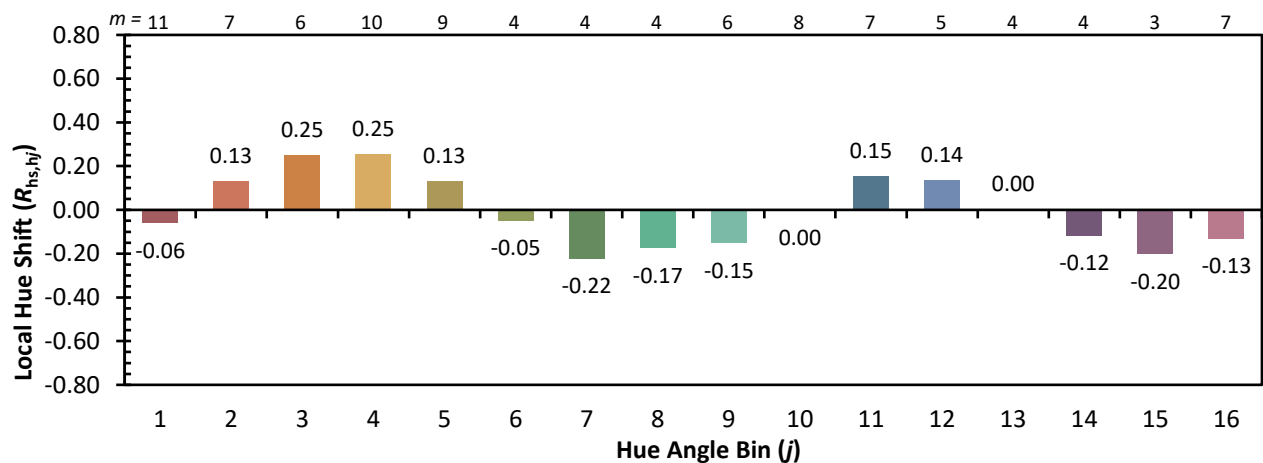
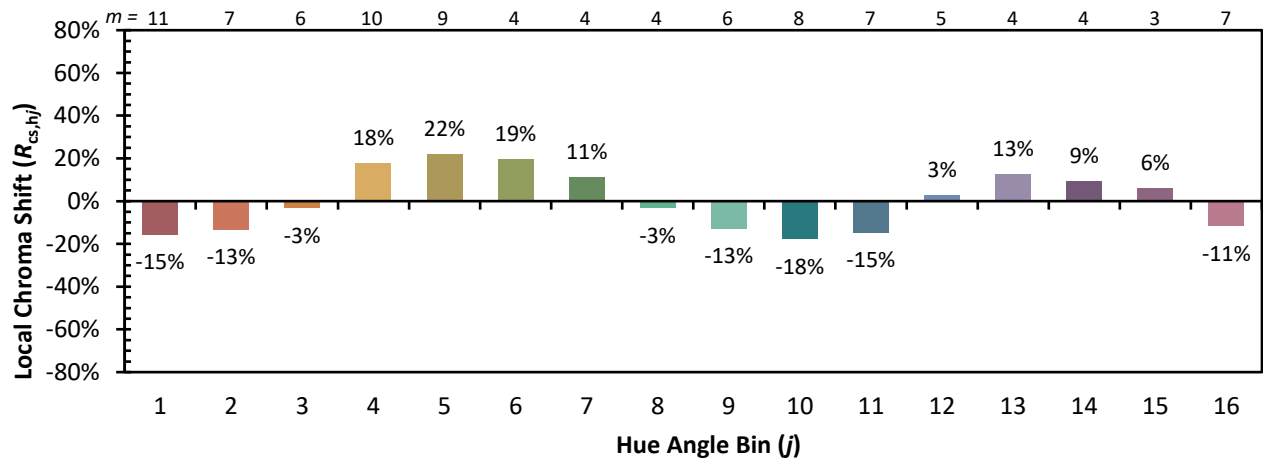
Color Vector Graphics



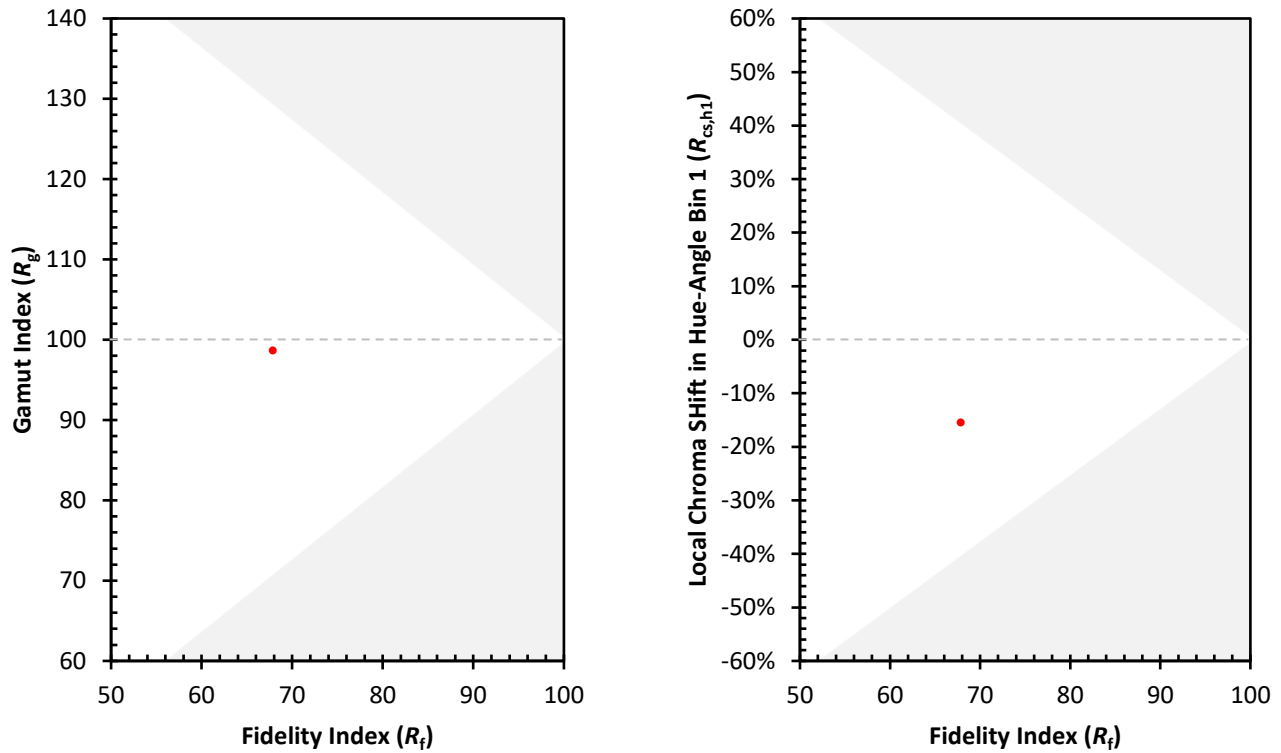
Individual Sample Fidelity Index ($R_{f,i}$)

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)