

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: P1065178

Luminaire Tested: **GLAN-SA3B-727-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1065178
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3B-727-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 3xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11653.3 lumens
Efficiency: N/A
Efficacy: 109.7 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): 106.2
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

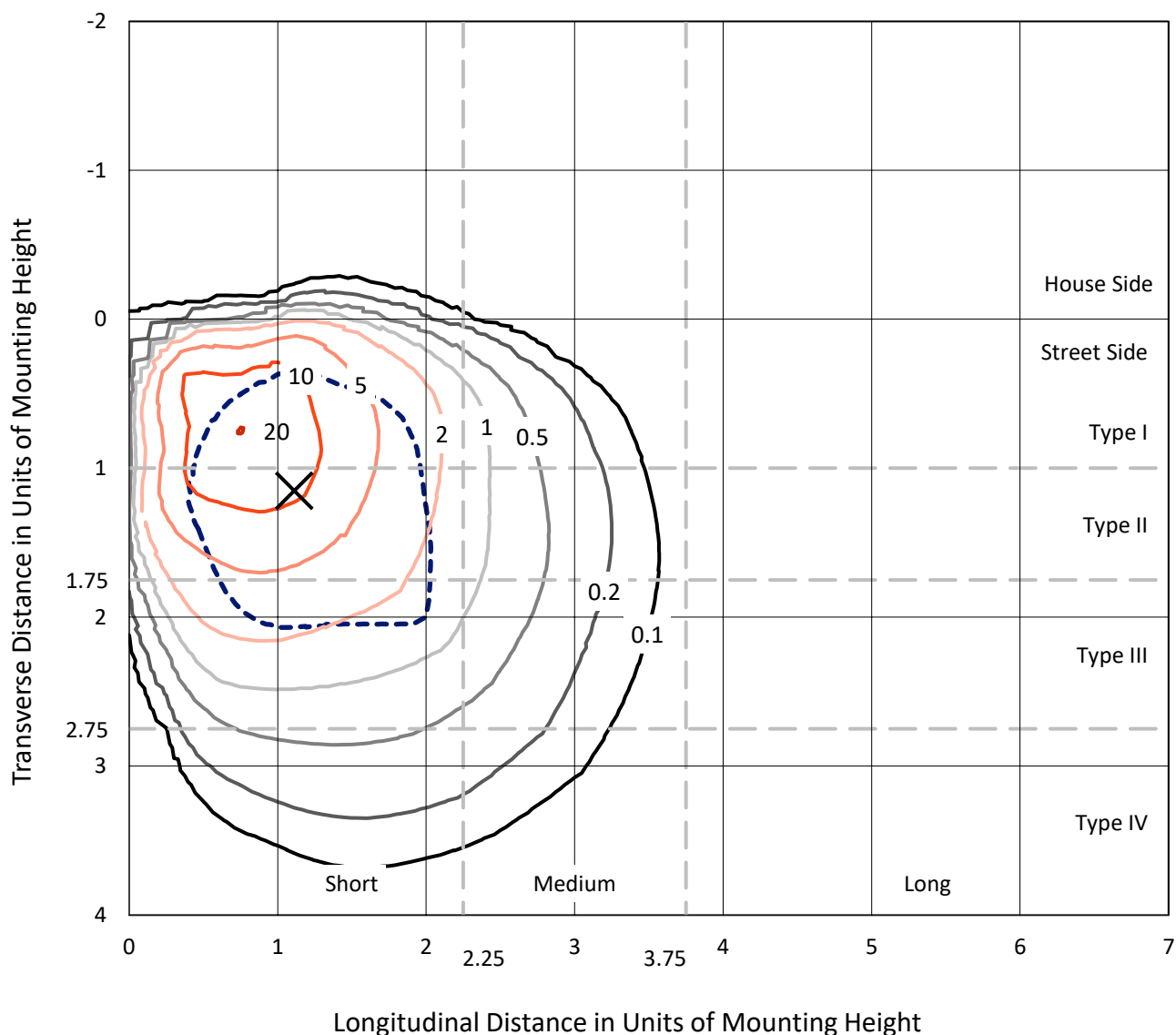
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

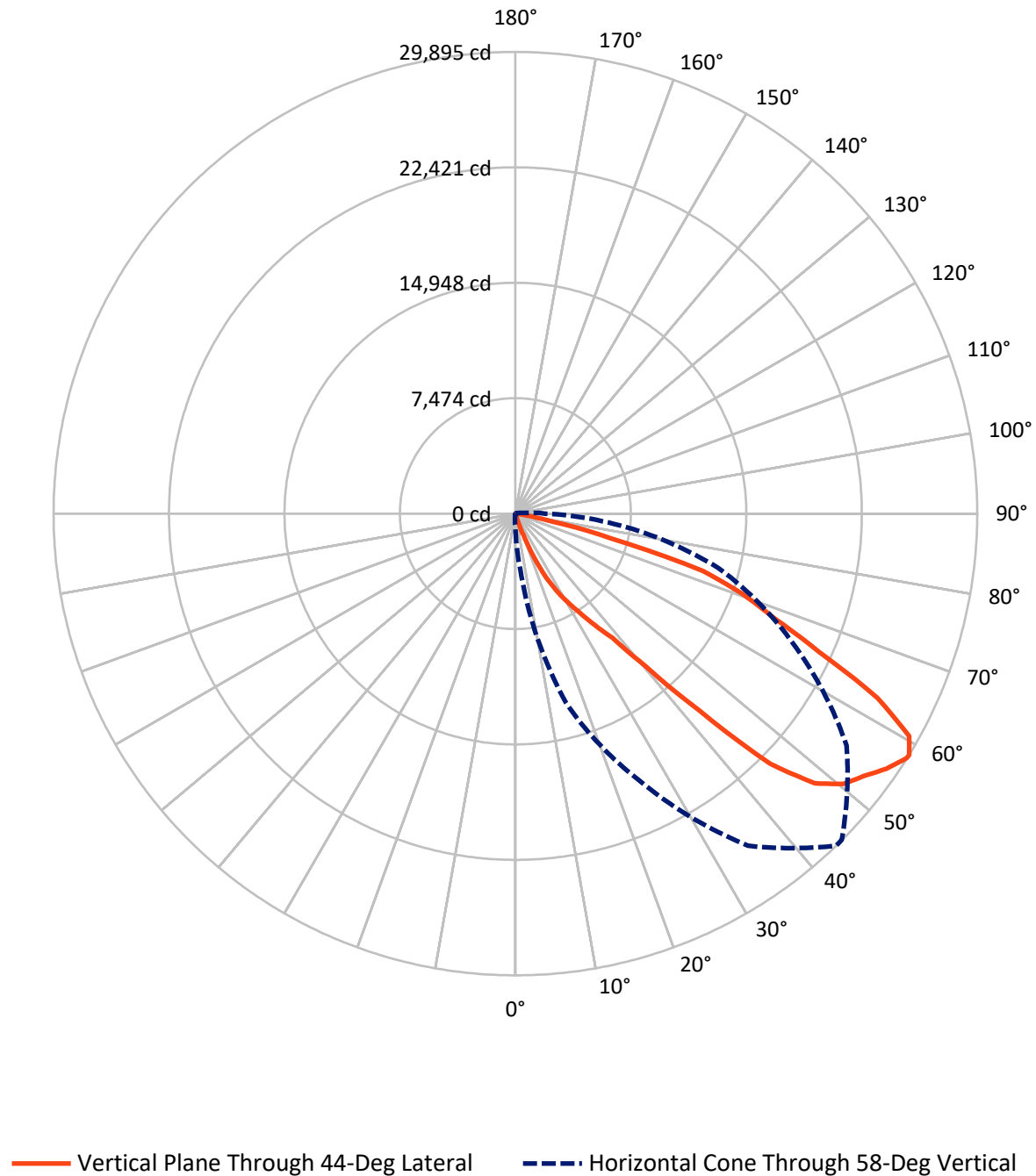


Based on 20 foot mounting height. Maximum calculated value = 20.3 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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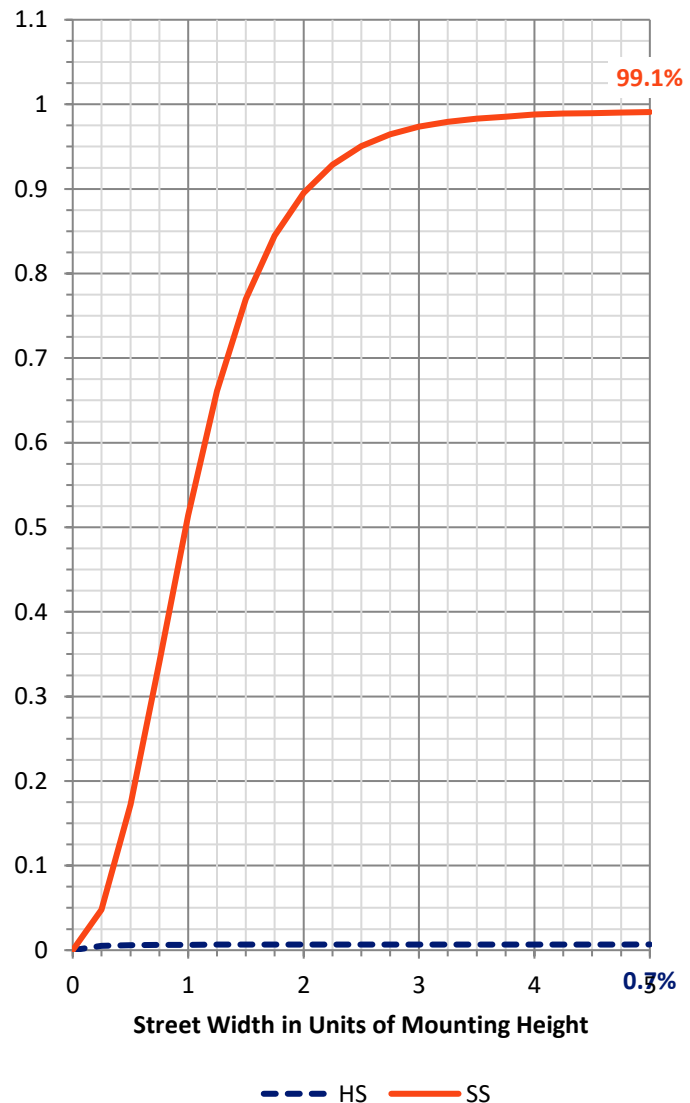
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	79.6	0.0	79.6
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	11573.7	0.0	11573.7
	% Fixture	99.3	0.0	99.3
Total	Lumens	11653.3	0.0	11653.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.6	0.0
10°-20°	25.6	0.2
20°-30°	276.1	2.4
30°-40°	816.4	7.0
40°-50°	2433.4	20.9
50°-60°	3861.2	33.1
60°-70°	3220.7	27.6
70°-80°	993.3	8.5
80°-90°	22.1	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°	11653.3	100.0
0°-180°	11653.3	100.0



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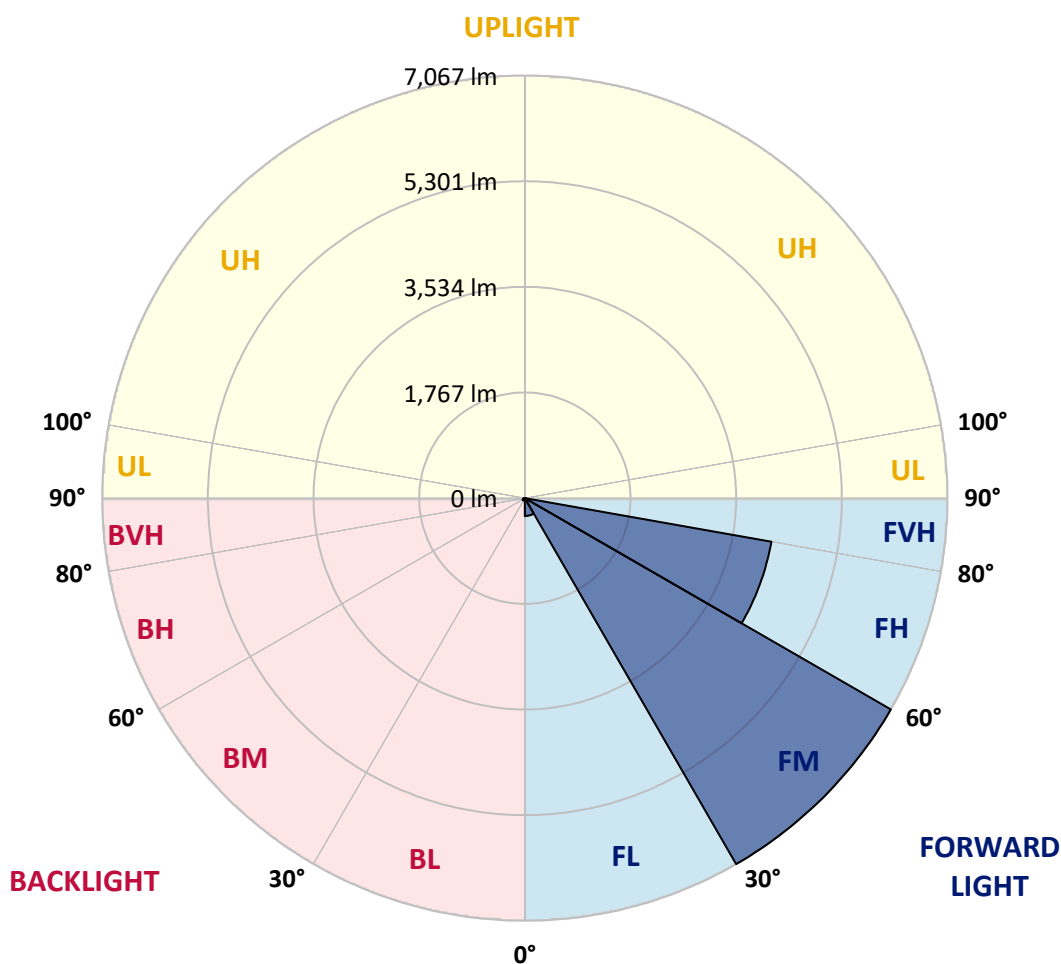
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	298.4	2.6			
FM	(30°-60°)	7067.5	60.6			
FH	(60°-80°)	4186.8	35.9			G2/5000
FVH	(80°-90°)	21.0	0.2			G1/100
BL	(0°-30°)	7.8	0.1	B0/110		
BM	(30°-60°)	43.5	0.4	B0/220		
BH	(60°-80°)	27.2	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°	44°	45°	55°	65°	75°	85°
0°	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
2.5°	66.0	66.0	63.4	59.9	56.3	52.8	51.9	50.2	49.3	48.4	47.5
5°	68.7	68.7	67.8	65.1	61.6	59.0	59.0	56.3	54.6	52.8	51.1
7.5°	70.4	71.3	73.1	72.2	70.4	67.8	67.8	66.0	63.4	59.0	56.3
10°	73.1	75.7	79.2	81.0	81.9	81.9	81.0	80.1	75.7	69.5	62.5
12.5°	75.7	81.0	89.8	98.6	103.9	110.9	110.0	108.3	96.8	83.6	71.3
15°	81.0	88.9	107.4	132.9	172.5	197.2	206.9	198.1	160.2	112.7	82.7
17.5°	87.2	100.4	155.8	278.2	456.0	540.5	591.6	550.2	364.4	213.9	103.9
20°	93.3	122.4	289.6	721.0	1183.1	1459.5	1536.1	1416.4	909.4	407.6	154.1
22.5°	103.9	171.7	587.2	1490.4	2549.4	2964.0	3042.3	2659.4	1717.5	804.6	231.5
25°	125.9	249.1	1012.4	2428.8	3804.7	4504.5	4471.9	3970.2	2786.2	1285.2	352.1
27.5°	157.6	362.7	1530.9	3450.8	5007.2	5624.3	5698.2	5077.6	3714.0	1890.0	500.0
30°	203.4	502.7	2087.2	4269.5	5971.1	6638.4	6650.7	6009.0	4544.1	2420.8	681.4
32.5°	247.4	634.7	2574.0	5060.9	6921.0	7652.5	7707.1	6917.4	5163.9	2973.7	838.9
35°	280.8	721.0	3067.0	5756.3	7878.7	8886.7	8883.2	7945.6	5898.0	3467.5	1057.2
37.5°	283.5	807.2	3513.3	6467.6	9091.8	10220.3	10332.1	9298.7	6785.4	4078.5	1324.9
40°	277.3	904.1	4078.5	7576.8	11277.6	13009.1	13107.7	11804.9	8565.4	5124.3	1743.0
42.5°	284.3	1072.2	4995.7	9625.3	14907.1	17393.9	17584.1	16214.3	11837.5	7258.1	2488.6
45°	321.3	1388.2	6917.4	13052.3	20080.6	23112.4	23049.0	21076.3	15644.8	10506.4	3964.0
47.5°	443.7	2162.0	9766.1	16387.8	23387.1	26087.0	26141.5	23730.4	17866.7	13003.9	5950.9
50°	682.2	3308.2	12159.7	18151.0	24808.8	27517.5	27466.4	24680.2	18710.9	14233.7	7168.3
52.5°	887.3	4137.4	13360.4	18769.9	24991.0	28224.3	28220.8	24930.2	18842.1	14339.3	7320.6
55°	938.4	4199.9	13370.1	18803.3	25399.4	29149.5	29265.7	25545.6	19011.9	13878.0	6747.5
57.5°	918.2	3718.4	12812.0	18997.0	26126.6	29865.2	29871.4	26141.5	19443.3	13595.4	5798.6
58°	900.6	3642.7	12699.3	19107.0	26251.6	29895.2	29880.2	26168.8	19794.5	13584.9	5649.8
60°	802.0	3162.9	12260.0	19387.8	26065.8	29280.7	29140.7	25572.9	19742.6	13476.6	4900.7
62.5°	630.3	2467.5	11827.8	19063.0	24074.6	26306.2	26364.3	22640.6	17997.8	12845.4	4017.7
65°	501.8	1839.0	10926.3	16721.4	19824.5	21602.7	21819.2	18410.7	15022.4	10877.0	2962.2
67.5°	399.7	1329.3	9165.7	13312.9	15687.0	18029.5	18187.1	15457.3	11638.5	8333.8	2104.8
70°	324.8	898.8	6326.8	9736.2	12938.7	15572.6	15582.3	12841.0	8686.9	5460.5	1320.5
72.5°	287.9	622.4	3672.6	7100.5	10491.5	12689.6	12433.4	10420.2	6676.2	3234.2	787.0
75°	249.1	412.9	1801.1	4340.8	6361.1	6404.2	6501.9	4833.8	3337.2	1537.9	471.8
77.5°	205.1	293.1	709.5	1185.8	1907.6	2442.0	2532.6	1919.1	1110.1	378.5	251.8
80°	140.8	139.1	191.0	363.6	545.8	684.0	638.2	493.9	290.5	145.3	89.8
82.5°	60.7	66.0	86.3	103.9	84.5	81.9	78.3	50.2	38.7	29.9	18.5
85°	19.4	17.6	18.5	18.5	15.0	11.4	11.4	5.3	0.0	0.0	0.0
87.5°	9.7	7.9	7.9	7.0	4.4	1.8	0.9	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°	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
2.5°	46.7	46.7	44.9	43.1	42.3	40.5	39.6	38.7	37.9	37.0	36.1
5°	49.3	48.4	45.8	43.1	40.5	37.9	36.1	34.3	32.6	31.7	30.8
7.5°	53.7	51.9	46.7	42.3	38.7	35.2	33.5	30.8	29.1	26.4	25.5
10°	59.0	55.5	48.4	43.1	37.9	33.5	30.8	28.2	25.5	22.0	21.1
12.5°	66.0	59.9	51.1	42.3	36.1	30.8	28.2	24.6	22.0	19.4	17.6
15°	72.2	64.3	51.9	42.3	34.3	28.2	24.6	21.1	18.5	15.0	13.2
17.5°	81.0	67.8	51.1	39.6	31.7	24.6	21.1	18.5	14.1	8.8	7.0
20°	96.0	70.4	49.3	37.0	27.3	20.2	15.8	12.3	6.2	1.8	0.0
22.5°	119.7	77.5	47.5	33.5	23.8	15.8	10.6	4.4	0.0	0.0	0.0
25°	165.5	89.8	47.5	31.7	21.1	11.4	3.5	0.0	0.0	0.0	0.0
27.5°	220.1	106.5	47.5	27.3	16.7	6.2	0.0	0.0	0.0	0.0	0.0
30°	275.5	125.0	47.5	23.8	13.2	0.9	0.0	0.0	0.0	0.0	0.0
32.5°	328.4	140.8	48.4	20.2	8.8	0.0	0.0	0.0	0.0	0.0	0.0
35°	382.1	143.5	47.5	17.6	5.3	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	450.7	138.2	44.9	15.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0
40°	554.6	140.8	42.3	15.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	746.5	152.3	38.7	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1290.5	204.2	35.2	15.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2134.7	367.1	34.3	15.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2724.5	462.2	36.1	16.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2720.1	515.0	37.9	17.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0
55°	2418.2	524.7	40.5	19.4	11.4	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	2021.2	478.9	46.7	23.8	21.1	0.0	0.0	0.0	0.0	0.0	0.0
58°	1950.8	457.8	48.4	24.6	22.9	0.0	0.0	0.0	0.0	0.0	0.0
60°	1598.6	373.2	61.6	30.8	30.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1103.9	325.7	70.4	39.6	31.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	780.8	294.0	76.6	42.3	25.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	583.6	271.1	84.5	43.1	13.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	447.2	254.4	103.9	45.8	3.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	364.4	235.0	125.9	47.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	301.9	212.2	121.5	51.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	200.7	164.6	110.9	51.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	70.4	65.1	86.3	45.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.6	8.8	12.3	15.8	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°	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
2.5°	36.1	36.1	35.2	36.1	36.1	37.9	42.3	48.4	55.5	58.1	60.7
5°	29.9	29.1	28.2	28.2	28.2	30.8	34.3	41.4	49.3	52.8	54.6
7.5°	24.6	23.8	22.9	22.0	22.0	23.8	28.2	36.1	44.0	47.5	50.2
10°	20.2	18.5	17.6	16.7	16.7	18.5	22.9	30.8	39.6	43.1	46.7
12.5°	16.7	14.1	12.3	11.4	10.6	13.2	17.6	24.6	34.3	38.7	42.3
15°	11.4	8.8	6.2	5.3	4.4	7.0	11.4	19.4	29.1	34.3	37.9
17.5°	6.2	2.6	0.9	0.0	0.0	1.8	5.3	14.1	23.8	28.2	32.6
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	17.6	22.0	26.4
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	10.6	15.0	19.4
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	7.9	11.4
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	5.3
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	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	5.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	7.0	9.7
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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CATALOG NUMBER: GLAN-SA3B-727-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
0°	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
2.5°	62.5	61.6	59.9	58.1	58.1	58.1	60.7	63.4	66.0	66.0
5°	58.1	58.1	57.2	55.5	55.5	56.3	59.9	64.3	67.8	68.7
7.5°	53.7	55.5	53.7	52.8	53.7	54.6	58.1	63.4	68.7	70.4
10°	51.1	51.9	51.9	51.1	51.1	52.8	56.3	63.4	70.4	73.1
12.5°	47.5	49.3	48.4	48.4	48.4	50.2	54.6	62.5	72.2	75.7
15°	44.0	46.7	46.7	45.8	45.8	46.7	52.8	61.6	74.8	81.0
17.5°	40.5	43.1	44.0	42.3	42.3	44.0	50.2	61.6	76.6	87.2
20°	33.5	37.9	40.5	37.9	37.9	39.6	45.8	58.1	77.5	93.3
22.5°	26.4	30.8	34.3	33.5	33.5	34.3	42.3	55.5	78.3	103.9
25°	19.4	23.8	26.4	28.2	28.2	30.8	38.7	53.7	81.9	125.9
27.5°	11.4	16.7	20.2	22.0	22.9	26.4	36.1	51.9	88.0	157.6
30°	5.3	9.7	14.1	17.6	17.6	23.8	33.5	50.2	96.0	203.4
32.5°	0.0	4.4	7.0	12.3	13.2	19.4	30.8	48.4	107.4	247.4
35°	0.0	0.0	3.5	9.7	9.7	15.8	28.2	46.7	125.0	280.8
37.5°	0.0	0.0	0.0	7.0	7.9	14.1	27.3	45.8	128.5	283.5
40°	0.0	0.0	0.0	5.3	6.2	13.2	27.3	46.7	116.2	277.3
42.5°	0.0	0.0	0.0	3.5	4.4	13.2	27.3	48.4	104.8	284.3
45°	0.0	0.0	0.0	2.6	3.5	14.1	26.4	47.5	98.6	321.3
47.5°	0.0	0.0	0.0	3.5	5.3	14.1	25.5	46.7	99.5	443.7
50°	0.0	0.0	0.0	4.4	6.2	14.1	26.4	44.9	109.2	682.2
52.5°	0.0	0.0	0.0	3.5	5.3	15.8	29.1	44.0	118.8	887.3
55°	0.0	0.0	0.0	0.9	2.6	20.2	31.7	44.0	133.8	938.4
57.5°	0.0	0.0	0.0	0.0	0.0	22.9	36.1	46.7	158.5	918.2
58°	0.0	0.0	0.0	0.0	0.0	22.9	37.0	46.7	160.2	900.6
60°	0.0	0.0	0.0	0.0	0.0	22.9	40.5	51.9	172.5	802.0
62.5°	0.0	0.0	0.0	0.0	0.0	19.4	48.4	65.1	179.6	630.3
65°	0.0	0.0	0.0	0.0	0.0	15.8	57.2	71.3	184.9	501.8
67.5°	0.0	0.0	0.0	0.0	0.0	15.0	59.0	72.2	187.5	399.7
70°	0.0	0.0	0.0	0.0	0.0	15.8	58.1	77.5	196.3	324.8
72.5°	0.0	0.0	0.0	0.0	0.0	17.6	52.8	85.4	196.3	287.9
75°	0.0	0.0	0.0	0.0	0.0	18.5	49.3	96.0	178.7	249.1
77.5°	0.0	0.0	0.0	0.0	0.0	17.6	48.4	111.8	159.3	205.1
80°	1.8	2.6	2.6	1.8	1.8	15.0	47.5	113.6	135.6	140.8
82.5°	5.3	7.0	6.2	4.4	4.4	13.2	42.3	95.1	70.4	60.7
85°	9.7	11.4	11.4	9.7	9.7	12.3	26.4	34.3	23.8	19.4
87.5°	13.2	15.0	15.0	13.2	13.2	12.3	11.4	10.6	9.7	9.7
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

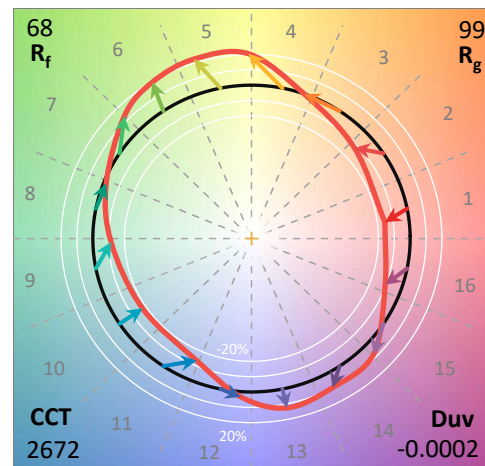
Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

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

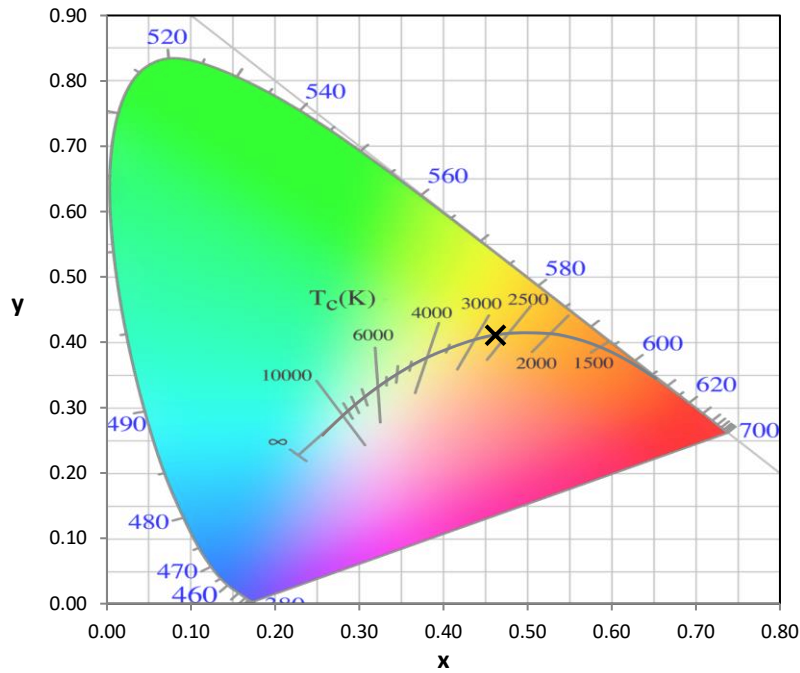
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-3

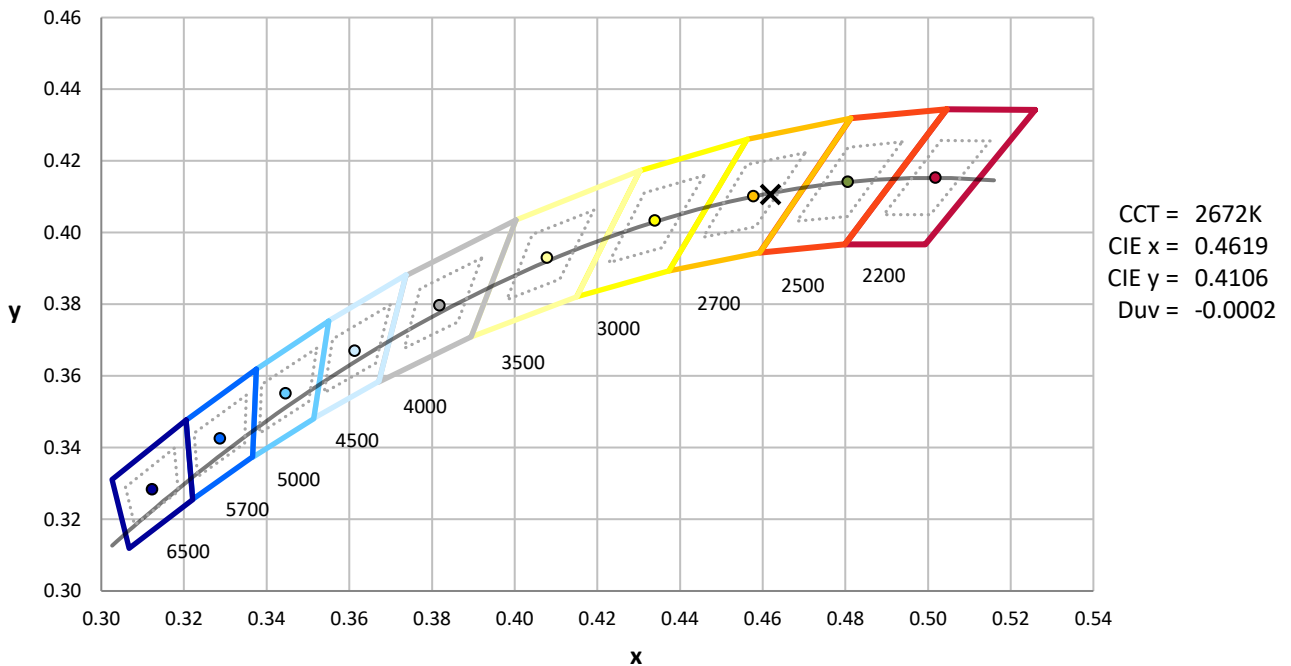
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram

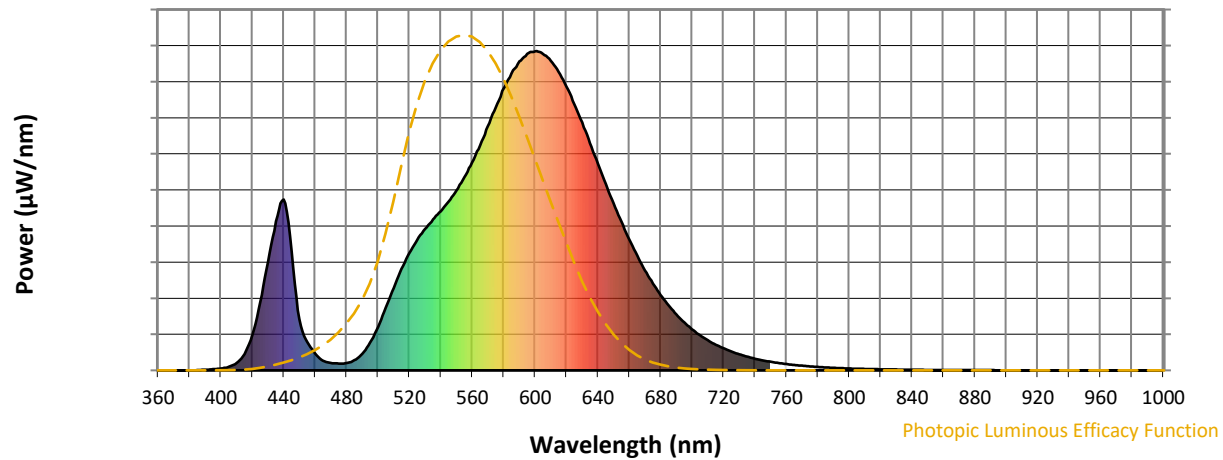


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



REPORT NUMBER: SP1-2407-184-3

Photopic Flux vs. Wavelength

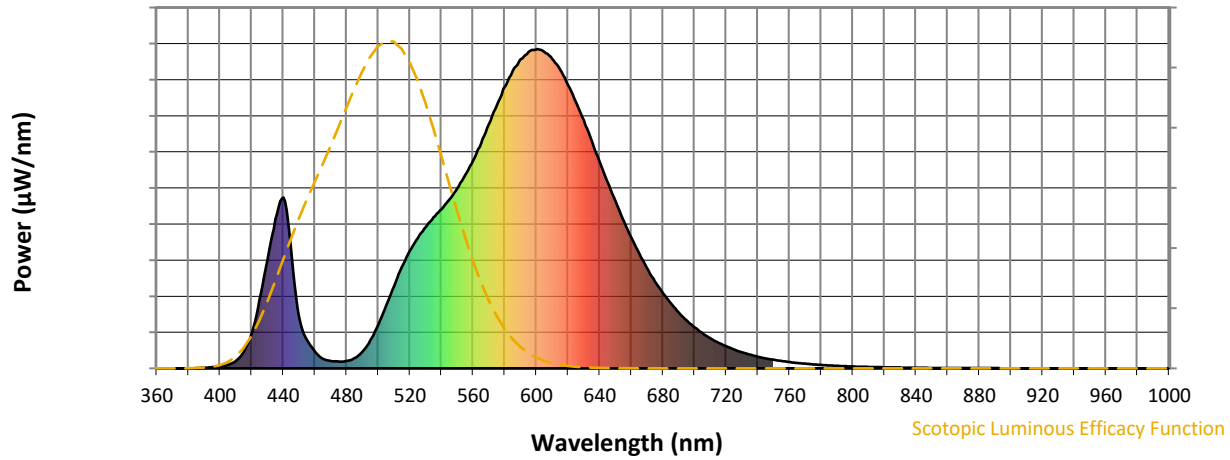


Photopic Lumens: NR

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



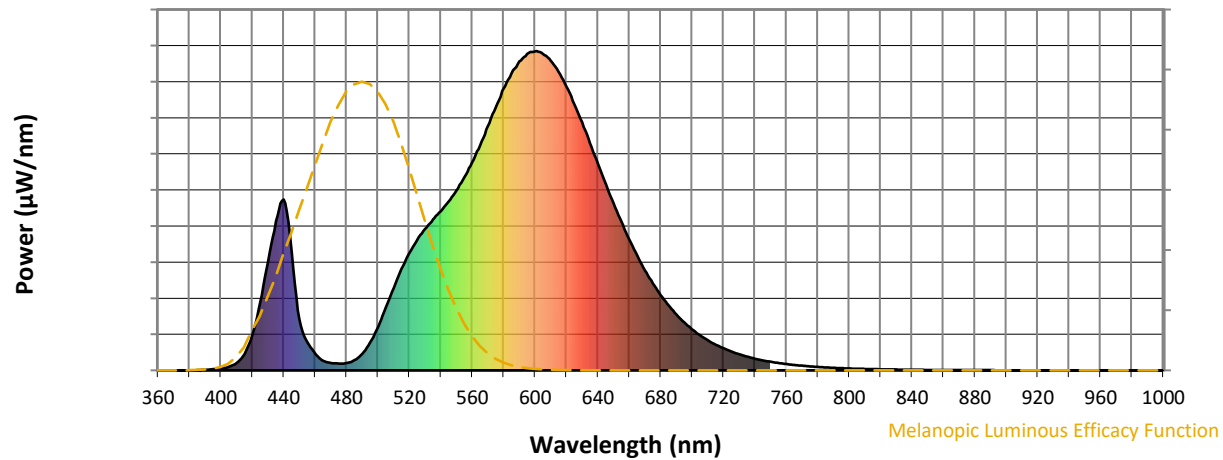
Scotopic Lumens: NR

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			

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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			

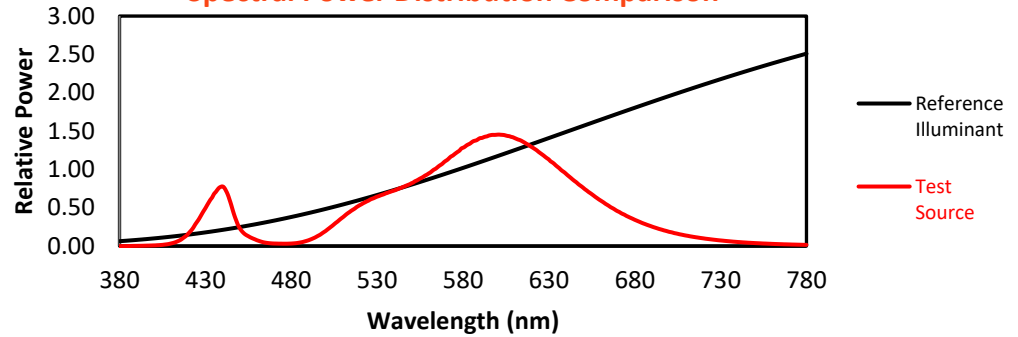
REPORT NUMBER: SP1-2407-184-3

TM-30-18

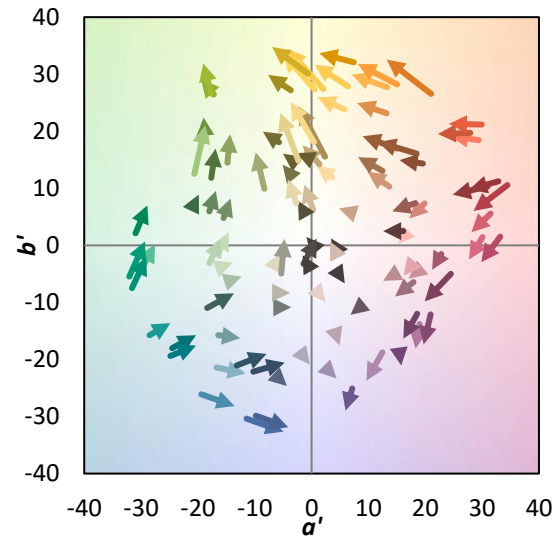
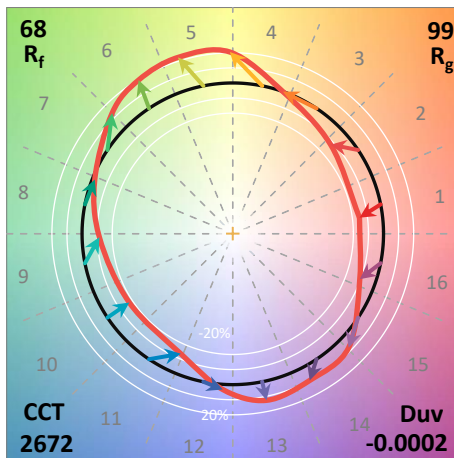
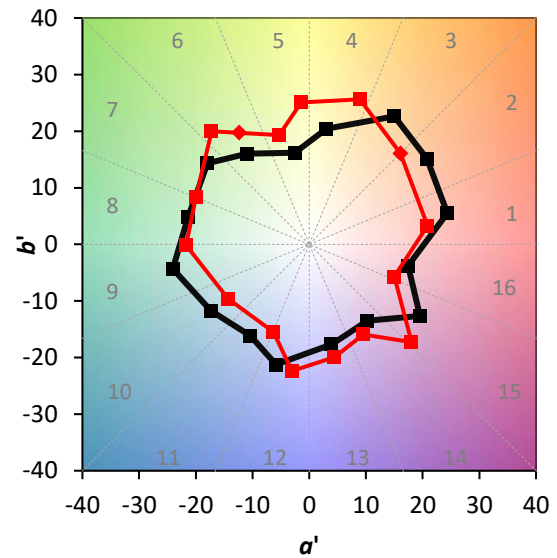
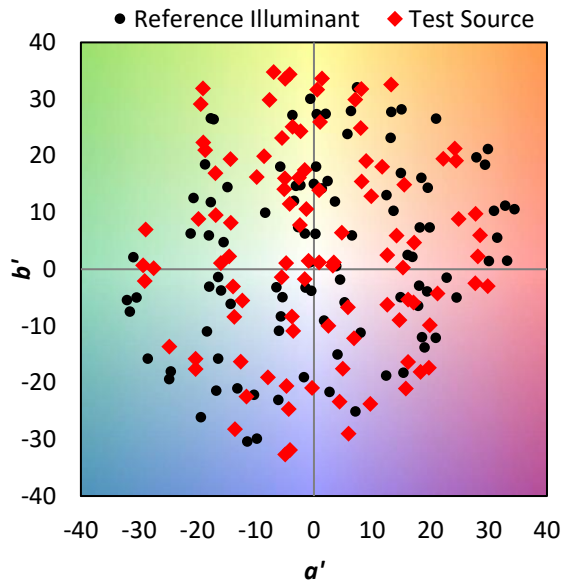
Summary

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

Spectral Power Distribution Comparison

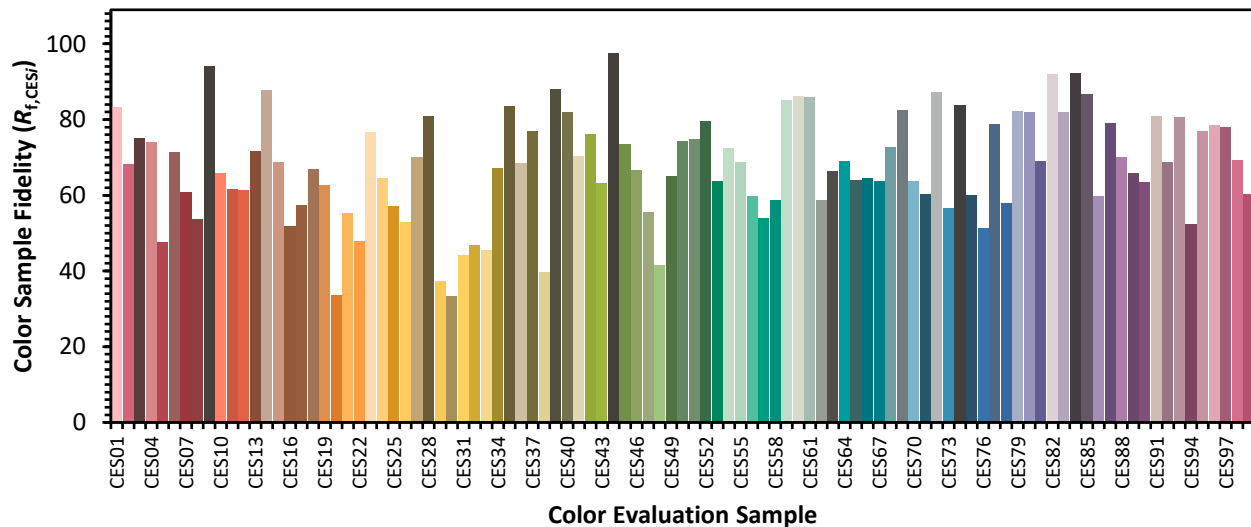


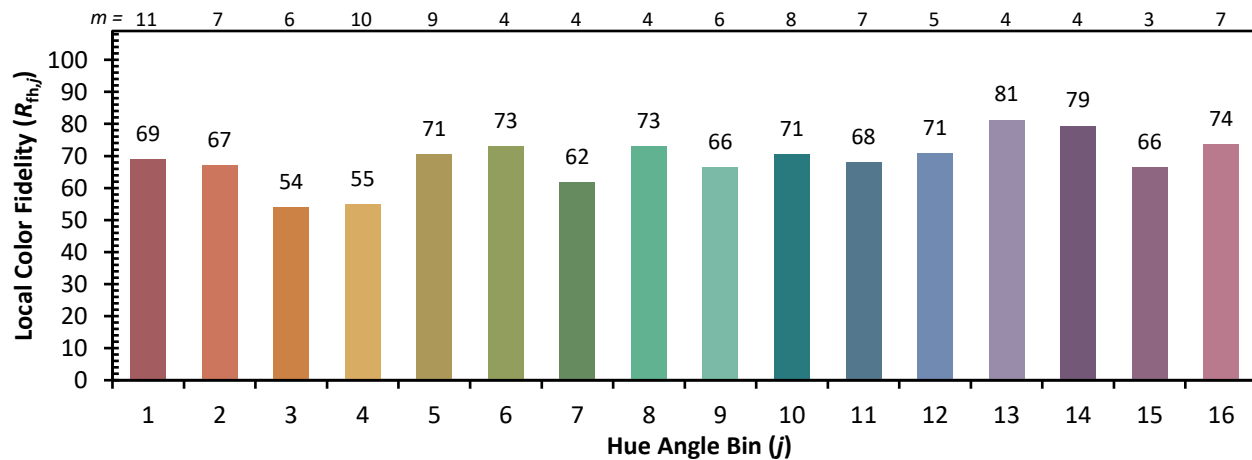
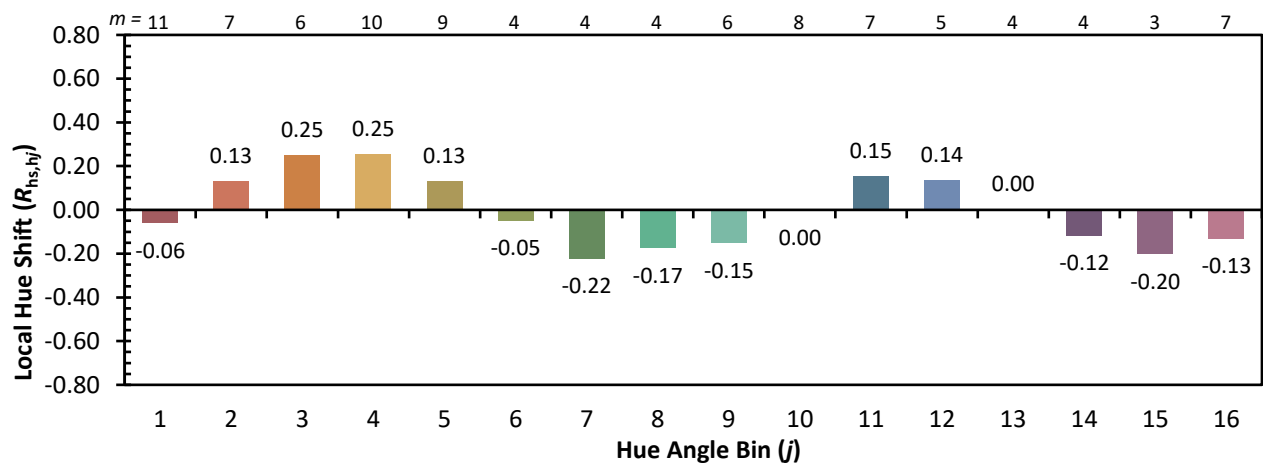
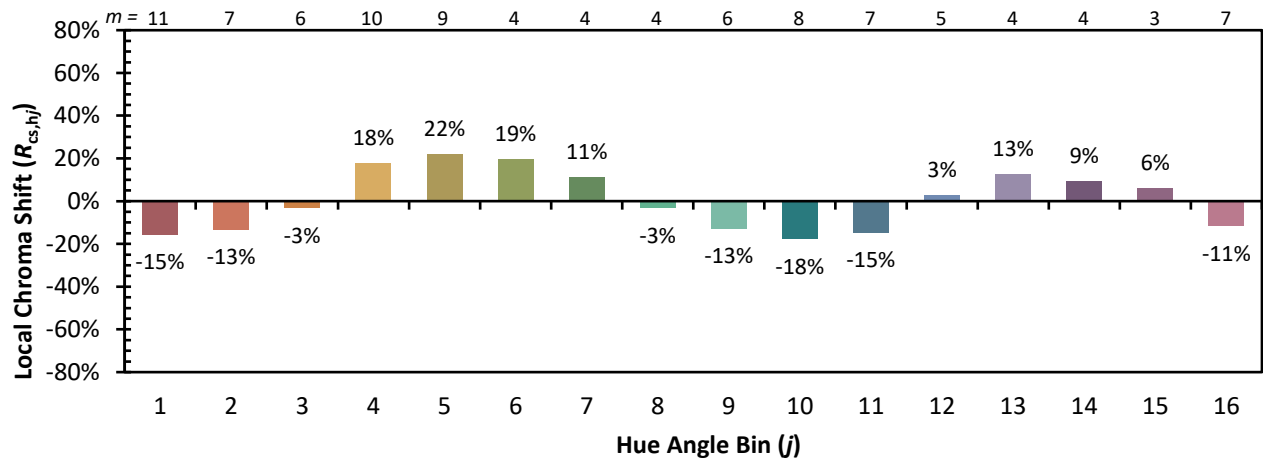
Color Vector Graphics

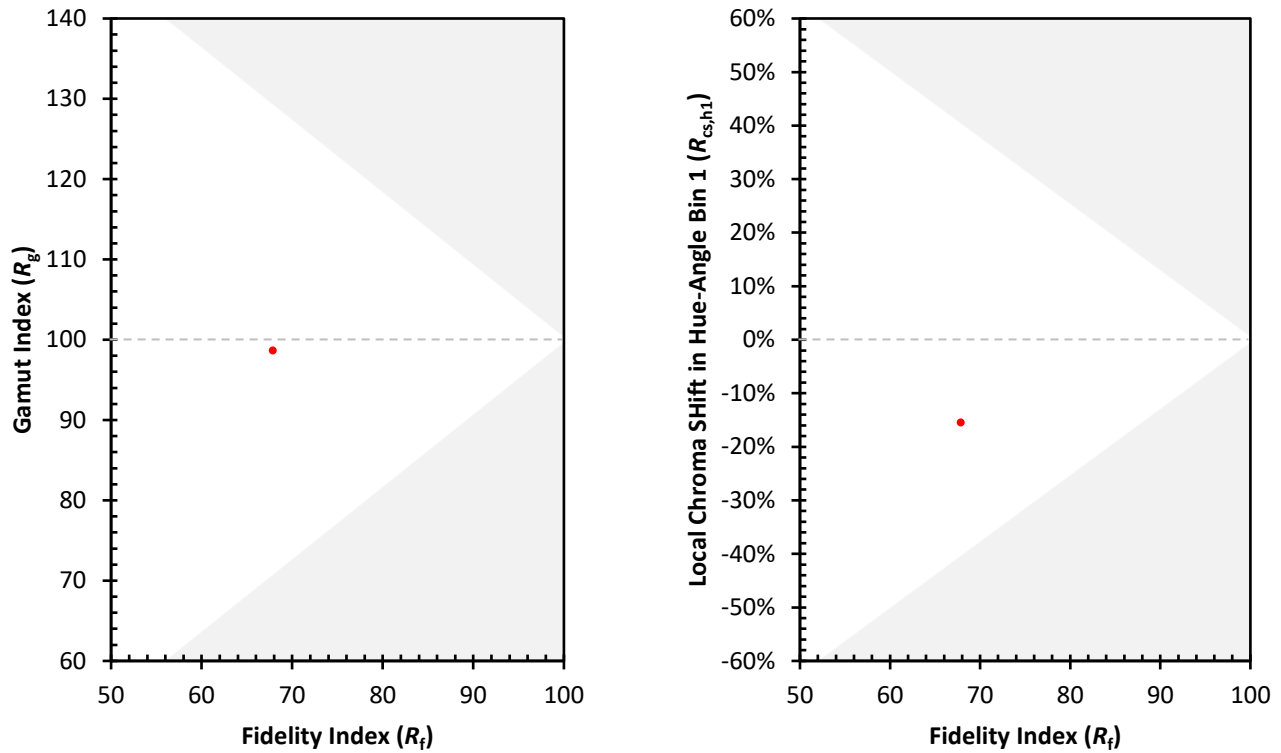


Individual Sample Fidelity Index ($R_{f,i}$)

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)