

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: P1049511

Luminaire Tested: **GALN-SA4C-722-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049511
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-722-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 4xLight Square PACKAGE
70CRI 2200K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15000.6 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

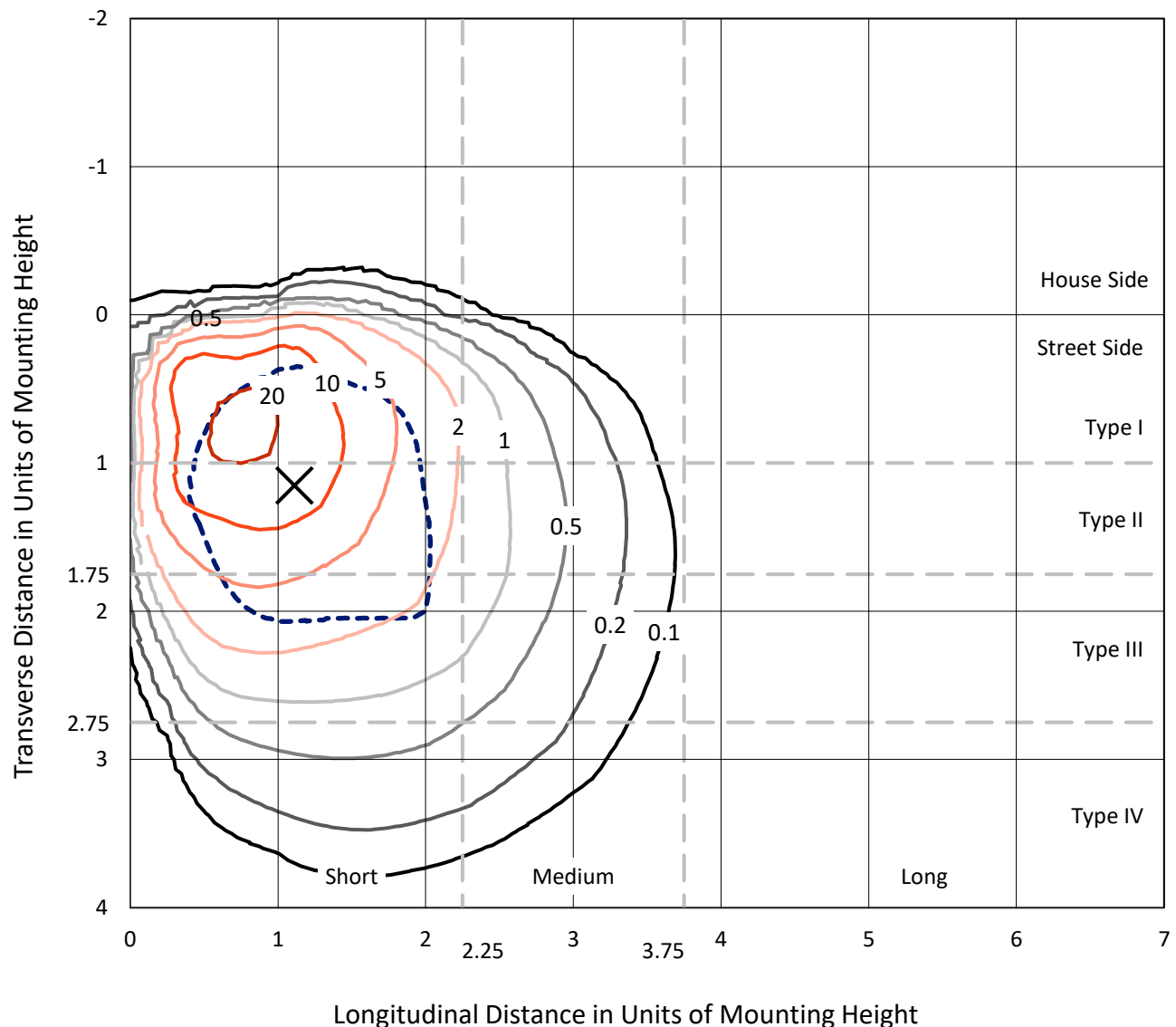
Input Watts (W): 190.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1049511

CATALOG NUMBER: GALN-SA4C-722-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

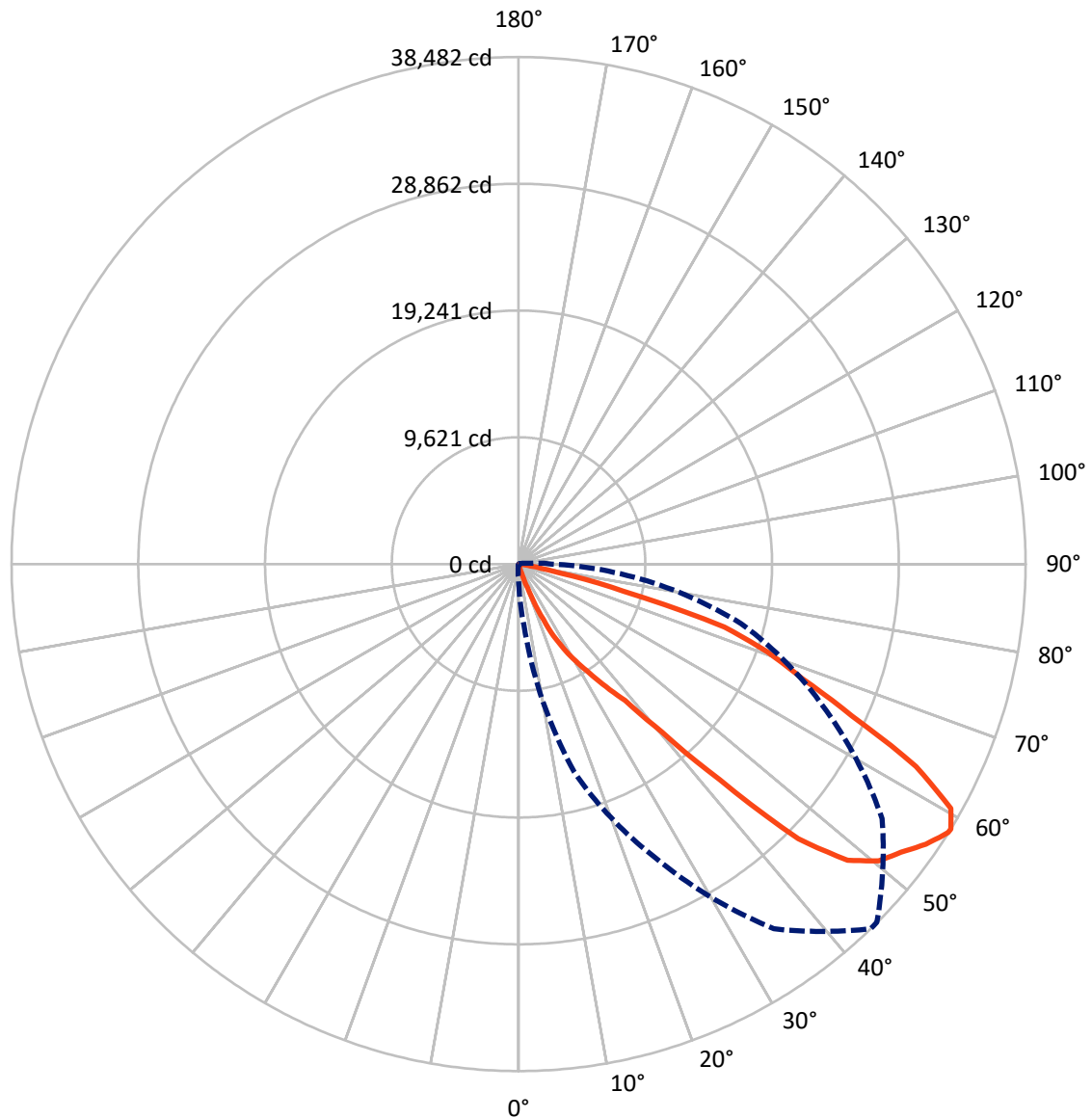
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 26.1 fc
 Type III - Short - N/A

REPORT NUMBER: P1049511
CATALOG NUMBER: GALN-SA4C-722-U-LBC

Luminous Intensity Polar Plot



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

REPORT NUMBER: P1049511

CATALOG NUMBER: GALN-SA4C-722-U-LBC

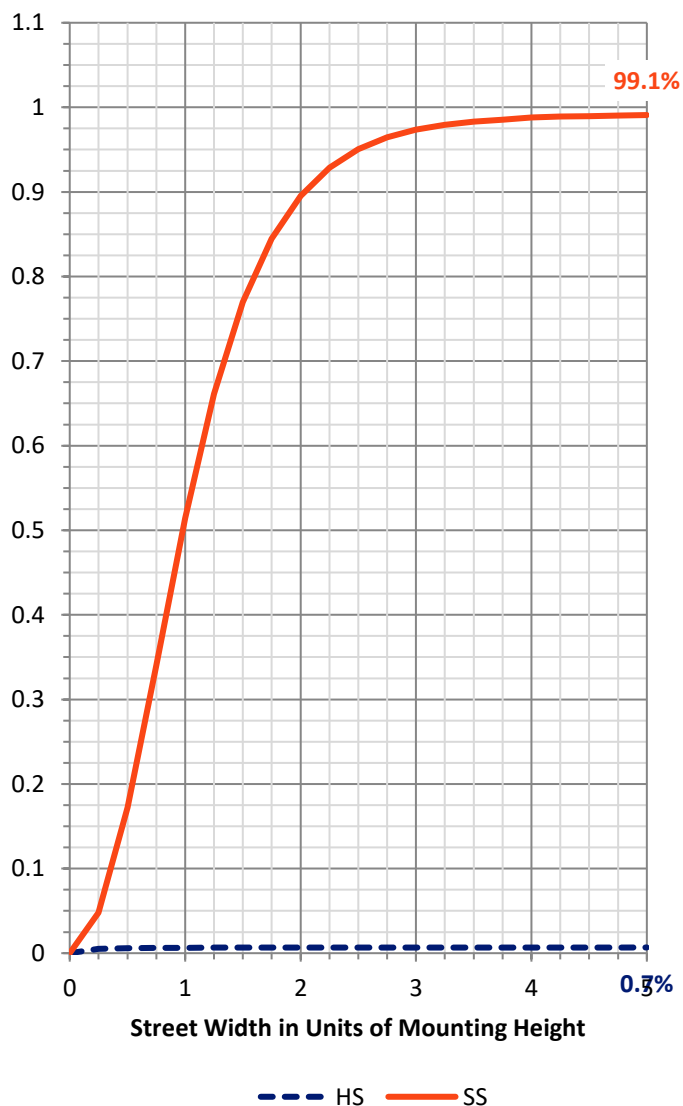
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	102.4	0.0	102.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	14898.2	0.0	14898.2
	% Fixture	99.3	0.0	99.3
Total	Lumens	15000.6	0.0	15000.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.9	0.0
10°-20°	32.9	0.2
20°-30°	355.4	2.4
30°-40°	1050.9	7.0
40°-50°	3132.4	20.9
50°-60°	4970.3	33.1
60°-70°	4145.8	27.6
70°-80°	1278.6	8.5
80°-90°	28.4	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°	15000.6	100.0
0°-180°	15000.6	100.0



REPORT NUMBER: P1049511

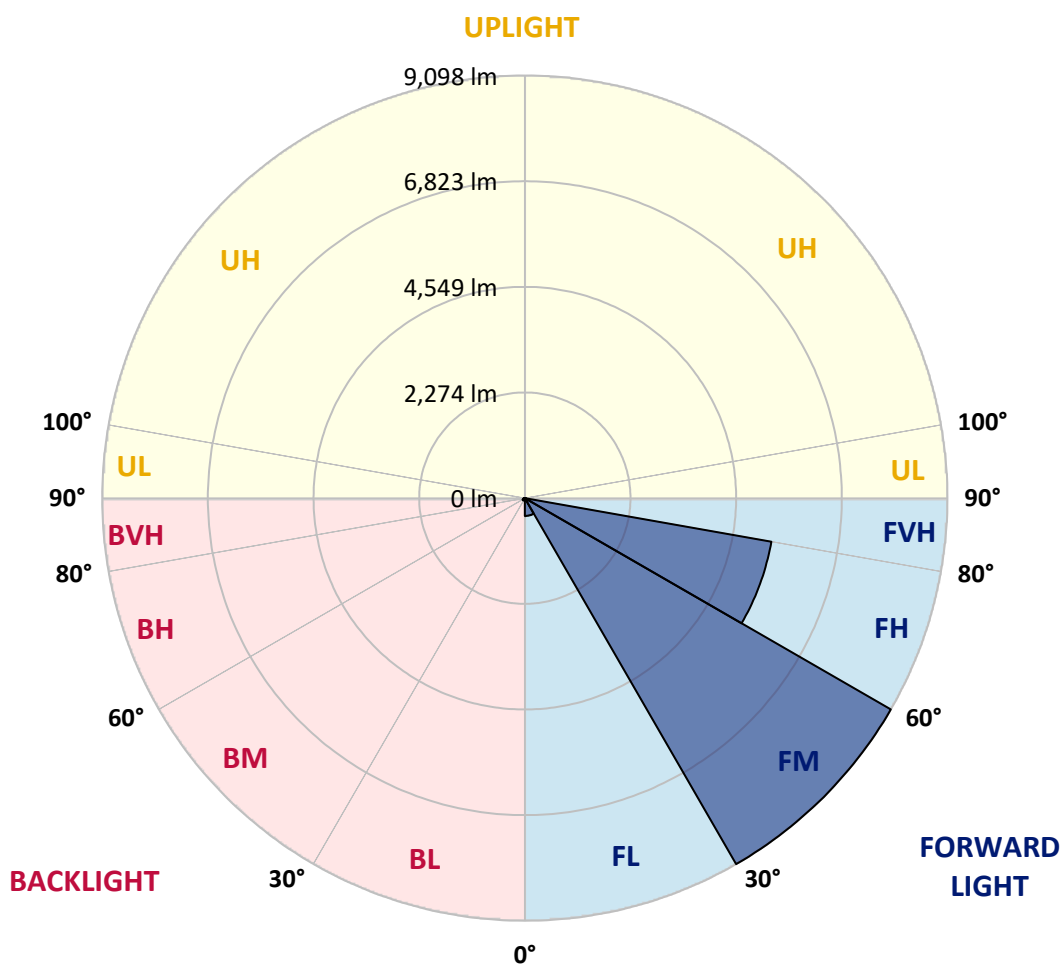
CATALOG NUMBER: GALN-SA4C-722-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	384.1	2.6			
FM	(30°-60°)	9097.5	60.6			
FH	(60°-80°)	5389.5	35.9			G3/7500
FVH	(80°-90°)	27.0	0.2			G1/100
BL	(0°-30°)	10.0	0.1	B0/110		
BM	(30°-60°)	56.1	0.4	B0/220		
BH	(60°-80°)	35.0	0.2	B0/110		G0/110
BVH	(80°-90°)	1.4	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-G3

Type III Short





REPORT NUMBER: P1049511

CATALOG NUMBER: GALN-SA4C-722-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
2.5°	85.0	85.0	81.6	77.1	72.5	68.0	66.9	64.6	63.5	62.3	61.2
5°	88.4	88.4	87.3	83.9	79.3	75.9	75.9	72.5	70.3	68.0	65.7
7.5°	90.7	91.8	94.1	92.9	90.7	87.3	87.3	85.0	81.6	75.9	72.5
10°	94.1	97.5	102.0	104.3	105.4	105.4	104.3	103.1	97.5	89.5	80.5
12.5°	97.5	104.3	115.6	126.9	133.7	142.8	141.6	139.4	124.6	107.7	91.8
15°	104.3	114.4	138.2	171.1	222.1	253.8	266.3	255.0	206.2	145.0	106.5
17.5°	112.2	129.2	200.6	358.1	587.0	695.8	761.5	708.2	469.1	275.4	133.7
20°	120.1	157.5	372.8	928.1	1523.0	1878.8	1977.4	1823.3	1170.6	524.7	198.3
22.5°	133.7	221.0	755.8	1918.4	3281.6	3815.4	3916.2	3423.3	2210.8	1035.7	298.0
25°	162.0	320.7	1303.1	3126.4	4897.5	5798.4	5756.5	5110.6	3586.5	1654.4	453.3
27.5°	202.8	466.9	1970.6	4442.0	6445.4	7239.8	7335.0	6536.1	4780.8	2432.9	643.6
30°	261.8	647.0	2686.7	5495.9	7686.3	8545.2	8561.1	7735.0	5849.4	3116.2	877.1
32.5°	318.4	817.0	3313.4	6514.6	8908.9	9850.6	9920.9	8904.4	6647.1	3827.8	1079.9
35°	361.5	928.1	3947.9	7409.8	10141.8	11439.3	11434.8	10228.0	7592.2	4463.5	1360.9
37.5°	364.9	1039.1	4522.5	8325.4	11703.3	13156.1	13300.0	11969.6	8734.4	5250.0	1705.4
40°	356.9	1163.8	5250.0	9753.2	14517.0	16745.9	16872.8	15195.7	11025.7	6596.2	2243.7
42.5°	366.0	1380.2	6430.7	12390.0	19189.0	22390.2	22635.0	20871.8	15237.7	9342.9	3203.5
45°	413.6	1787.0	8904.4	16801.4	25848.6	29751.3	29669.7	27130.2	20138.6	13524.3	5102.6
47.5°	571.1	2783.1	12571.3	21095.0	30104.8	33580.2	33650.5	30546.7	22998.7	16739.1	7660.2
50°	878.2	4258.4	15652.4	23364.7	31934.9	35421.6	35355.9	31769.4	24085.4	18322.2	9227.4
52.5°	1142.2	5325.9	17198.1	24161.4	32169.4	36331.5	36327.0	32091.2	24254.3	18458.1	9423.4
55°	1208.0	5406.3	17210.5	24204.4	32695.2	37522.5	37672.1	32883.3	24473.0	17864.4	8685.7
57.5°	1181.9	4786.5	16492.1	24453.7	33631.2	38443.8	38451.7	33650.5	25028.2	17500.6	7464.2
58°	1159.2	4689.0	16347.0	24595.4	33792.1	38482.3	38463.0	33685.6	25480.4	17487.0	7272.7
60°	1032.3	4071.5	15781.6	24956.8	33553.0	37691.3	37511.2	32918.5	25413.5	17347.6	6308.3
62.5°	811.3	3176.3	15225.2	24538.7	30989.8	33862.4	33937.2	29143.9	23167.6	16535.1	5171.8
65°	645.9	2367.2	14064.8	21524.5	25518.9	27807.9	28086.6	23699.0	19337.5	14001.4	3813.1
67.5°	514.5	1711.1	11798.5	17136.9	20193.0	23208.4	23411.2	19897.3	14981.6	10727.7	2709.4
70°	418.1	1157.0	8144.1	12532.8	16655.3	20045.7	20058.2	16529.5	11182.1	7029.0	1699.7
72.5°	370.5	801.1	4727.6	9140.1	13505.1	16334.6	16004.8	13413.3	8593.9	4163.2	1013.0
75°	320.7	531.5	2318.5	5587.6	8188.3	8243.8	8369.6	6222.2	4295.8	1979.6	607.4
77.5°	264.0	377.3	913.3	1526.4	2455.6	3143.4	3260.1	2470.3	1428.9	487.3	324.1
80°	181.3	179.0	245.9	468.0	702.6	880.5	821.5	635.7	373.9	187.0	115.6
82.5°	78.2	85.0	111.1	133.7	108.8	105.4	100.9	64.6	49.9	38.5	23.8
85°	24.9	22.7	23.8	23.8	19.3	14.7	14.7	6.8	0.0	0.0	0.0
87.5°	12.5	10.2	10.2	9.1	5.7	2.3	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

REPORT NUMBER: P1049511

CATALOG NUMBER: GALN-SA4C-722-U-LBC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
2.5°	60.1	60.1	57.8	55.5	54.4	52.1	51.0	49.9	48.7	47.6	46.5
5°	63.5	62.3	58.9	55.5	52.1	48.7	46.5	44.2	41.9	40.8	39.7
7.5°	69.1	66.9	60.1	54.4	49.9	45.3	43.1	39.7	37.4	34.0	32.9
10°	75.9	71.4	62.3	55.5	48.7	43.1	39.7	36.3	32.9	28.3	27.2
12.5°	85.0	77.1	65.7	54.4	46.5	39.7	36.3	31.7	28.3	24.9	22.7
15°	92.9	82.7	66.9	54.4	44.2	36.3	31.7	27.2	23.8	19.3	17.0
17.5°	104.3	87.3	65.7	51.0	40.8	31.7	27.2	23.8	18.1	11.3	9.1
20°	123.5	90.7	63.5	47.6	35.1	26.1	20.4	15.9	7.9	2.3	0.0
22.5°	154.1	99.7	61.2	43.1	30.6	20.4	13.6	5.7	0.0	0.0	0.0
25°	213.0	115.6	61.2	40.8	27.2	14.7	4.5	0.0	0.0	0.0	0.0
27.5°	283.3	137.1	61.2	35.1	21.5	7.9	0.0	0.0	0.0	0.0	0.0
30°	354.7	160.9	61.2	30.6	17.0	1.1	0.0	0.0	0.0	0.0	0.0
32.5°	422.7	181.3	62.3	26.1	11.3	0.0	0.0	0.0	0.0	0.0	0.0
35°	491.8	184.7	61.2	22.7	6.8	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	580.2	177.9	57.8	20.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0
40°	713.9	181.3	54.4	19.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	960.9	196.0	49.9	19.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1661.2	262.9	45.3	20.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2747.9	472.5	44.2	20.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3507.1	594.9	46.5	21.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3501.5	662.9	48.7	22.7	4.5	0.0	0.0	0.0	0.0	0.0	0.0
55°	3112.8	675.4	52.1	24.9	14.7	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	2601.7	616.4	60.1	30.6	27.2	0.0	0.0	0.0	0.0	0.0	0.0
58°	2511.1	589.2	62.3	31.7	29.5	0.0	0.0	0.0	0.0	0.0	0.0
60°	2057.8	480.5	79.3	39.7	39.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1421.0	419.3	90.7	51.0	40.8	0.0	0.0	0.0	0.0	0.0	0.0
65°	1005.1	378.5	98.6	54.4	32.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	751.3	349.0	108.8	55.5	17.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	575.6	327.5	133.7	58.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	469.1	302.6	162.0	61.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	388.7	273.1	156.4	66.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	258.4	211.9	142.8	66.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	90.7	83.9	111.1	58.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.6	11.3	15.9	20.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1049511

CATALOG NUMBER: GALN-SA4C-722-U-LBC

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
2.5°	46.5	46.5	45.3	46.5	46.5	48.7	54.4	62.3	71.4	74.8	78.2
5°	38.5	37.4	36.3	36.3	36.3	39.7	44.2	53.3	63.5	68.0	70.3
7.5°	31.7	30.6	29.5	28.3	28.3	30.6	36.3	46.5	56.7	61.2	64.6
10°	26.1	23.8	22.7	21.5	21.5	23.8	29.5	39.7	51.0	55.5	60.1
12.5°	21.5	18.1	15.9	14.7	13.6	17.0	22.7	31.7	44.2	49.9	54.4
15°	14.7	11.3	7.9	6.8	5.7	9.1	14.7	24.9	37.4	44.2	48.7
17.5°	7.9	3.4	1.1	0.0	0.0	2.3	6.8	18.1	30.6	36.3	41.9
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	22.7	28.3	34.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	13.6	19.3	24.9
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	10.2	14.7
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	6.8
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	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	6.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	9.1	12.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1049511

CATALOG NUMBER: GALN-SA4C-722-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
0°	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
2.5°	80.5	79.3	77.1	74.8	74.8	74.8	78.2	81.6	85.0	85.0
5°	74.8	74.8	73.7	71.4	71.4	72.5	77.1	82.7	87.3	88.4
7.5°	69.1	71.4	69.1	68.0	69.1	70.3	74.8	81.6	88.4	90.7
10°	65.7	66.9	66.9	65.7	65.7	68.0	72.5	81.6	90.7	94.1
12.5°	61.2	63.5	62.3	62.3	62.3	64.6	70.3	80.5	92.9	97.5
15°	56.7	60.1	60.1	58.9	58.9	60.1	68.0	79.3	96.3	104.3
17.5°	52.1	55.5	56.7	54.4	54.4	56.7	64.6	79.3	98.6	112.2
20°	43.1	48.7	52.1	48.7	48.7	51.0	58.9	74.8	99.7	120.1
22.5°	34.0	39.7	44.2	43.1	43.1	44.2	54.4	71.4	100.9	133.7
25°	24.9	30.6	34.0	36.3	36.3	39.7	49.9	69.1	105.4	162.0
27.5°	14.7	21.5	26.1	28.3	29.5	34.0	46.5	66.9	113.3	202.8
30°	6.8	12.5	18.1	22.7	22.7	30.6	43.1	64.6	123.5	261.8
32.5°	0.0	5.7	9.1	15.9	17.0	24.9	39.7	62.3	138.2	318.4
35°	0.0	0.0	4.5	12.5	12.5	20.4	36.3	60.1	160.9	361.5
37.5°	0.0	0.0	0.0	9.1	10.2	18.1	35.1	58.9	165.4	364.9
40°	0.0	0.0	0.0	6.8	7.9	17.0	35.1	60.1	149.6	356.9
42.5°	0.0	0.0	0.0	4.5	5.7	17.0	35.1	62.3	134.8	366.0
45°	0.0	0.0	0.0	3.4	4.5	18.1	34.0	61.2	126.9	413.6
47.5°	0.0	0.0	0.0	4.5	6.8	18.1	32.9	60.1	128.0	571.1
50°	0.0	0.0	0.0	5.7	7.9	18.1	34.0	57.8	140.5	878.2
52.5°	0.0	0.0	0.0	4.5	6.8	20.4	37.4	56.7	153.0	1142.2
55°	0.0	0.0	0.0	1.1	3.4	26.1	40.8	56.7	172.2	1208.0
57.5°	0.0	0.0	0.0	0.0	0.0	29.5	46.5	60.1	204.0	1181.9
58°	0.0	0.0	0.0	0.0	0.0	29.5	47.6	60.1	206.2	1159.2
60°	0.0	0.0	0.0	0.0	0.0	29.5	52.1	66.9	222.1	1032.3
62.5°	0.0	0.0	0.0	0.0	0.0	24.9	62.3	83.9	231.2	811.3
65°	0.0	0.0	0.0	0.0	0.0	20.4	73.7	91.8	238.0	645.9
67.5°	0.0	0.0	0.0	0.0	0.0	19.3	75.9	92.9	241.4	514.5
70°	0.0	0.0	0.0	0.0	0.0	20.4	74.8	99.7	252.7	418.1
72.5°	0.0	0.0	0.0	0.0	0.0	22.7	68.0	109.9	252.7	370.5
75°	0.0	0.0	0.0	0.0	0.0	23.8	63.5	123.5	230.0	320.7
77.5°	0.0	0.0	0.0	0.0	0.0	22.7	62.3	143.9	205.1	264.0
80°	2.3	3.4	3.4	2.3	2.3	19.3	61.2	146.2	174.5	181.3
82.5°	6.8	9.1	7.9	5.7	5.7	17.0	54.4	122.4	90.7	78.2
85°	12.5	14.7	14.7	12.5	12.5	15.9	34.0	44.2	30.6	24.9
87.5°	17.0	19.3	19.3	17.0	17.0	15.9	14.7	13.6	12.5	12.5
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: SP1-2407-184-2

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-722-U-5WQ

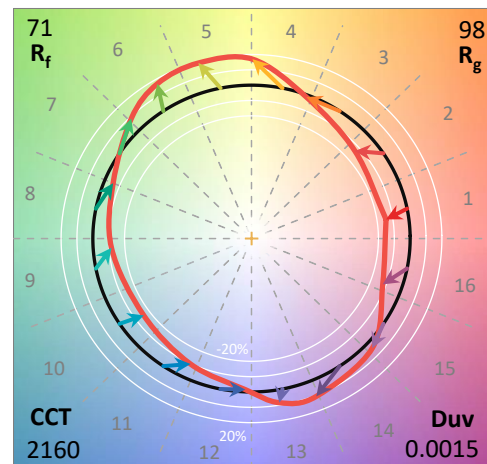
Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-2
 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-722-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2200K CCT 26 LEDS

Spectral Parameters

CCT (K):	2160	CRI (Ra):	71.9		
CIE u':	0.2927	R1:	68.7	R9:	-17.8
CIE v':	0.5388	R2:	82.6	R10:	60.5
Duv:	0.0015	R3:	95.5	R11:	60.2
CIE x:	0.5130	R4:	66.4	R12:	48.2
CIE y:	0.4197	R5:	65.4	R13:	70.7
CIE z:	0.0674	R6:	75.9	R14:	96.8
Peak Wavelength (nm):	609	R7:	77.2	R15:	61.8
Dominant Wavelength (nm):	587	R8:	43.5		
Purity:	79.96089				
Rf:	70.6				
Rg:	97.6				



Test Conditions

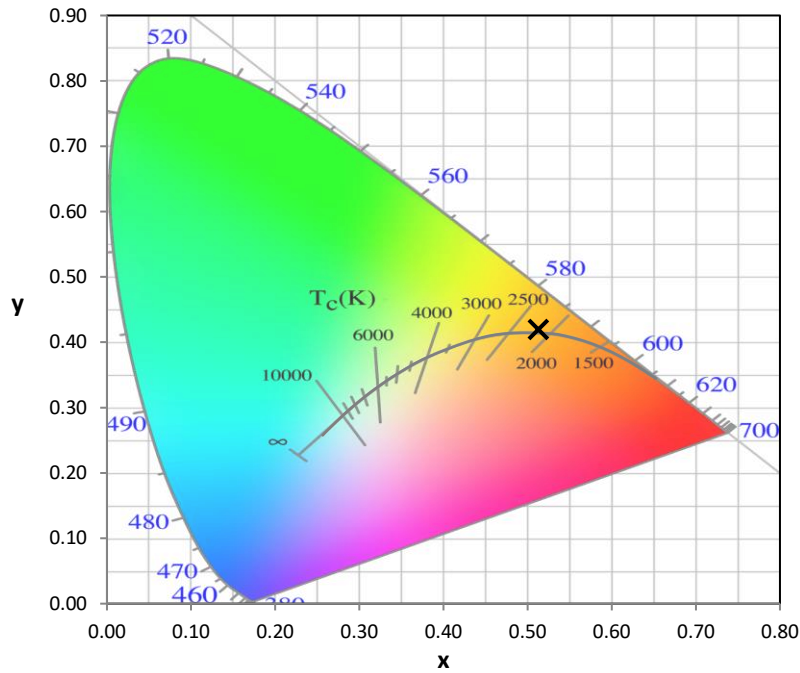
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-2

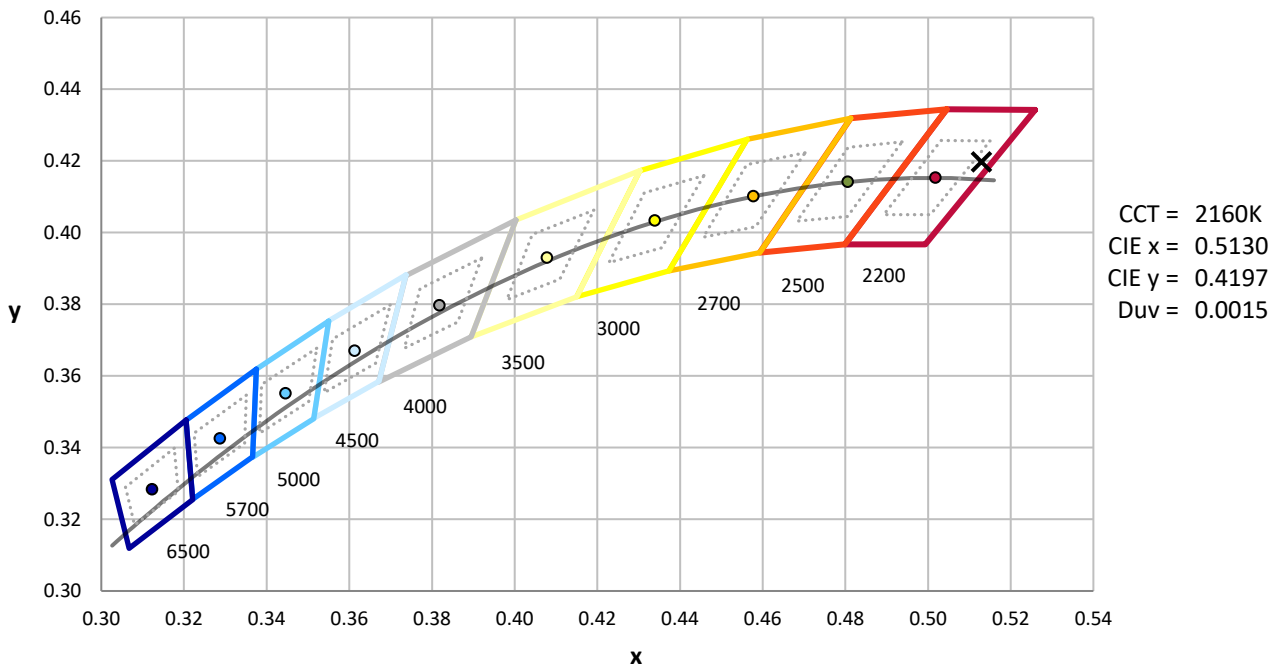
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-2

CIE 1931 Chromaticity Diagram



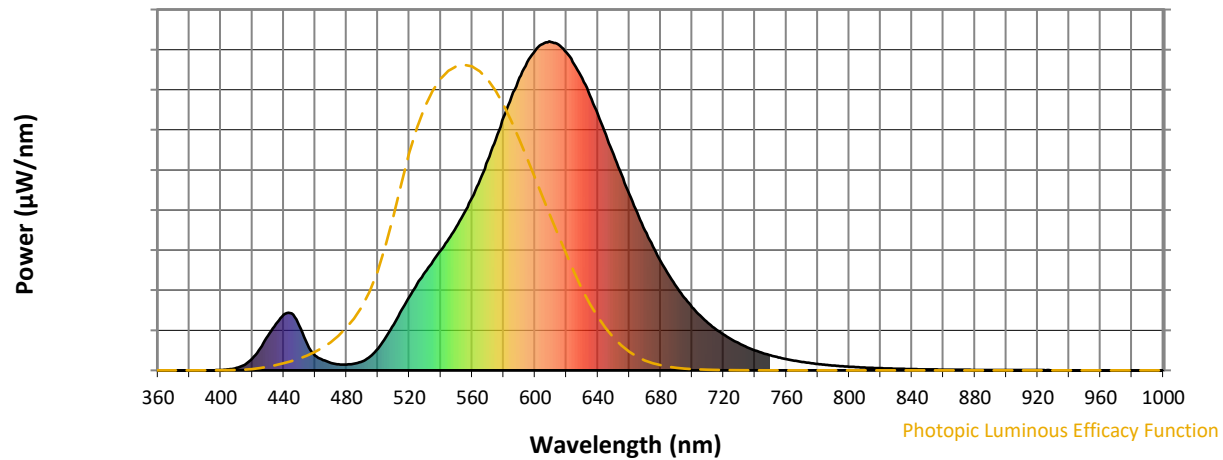
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

Photopic Flux vs. Wavelength

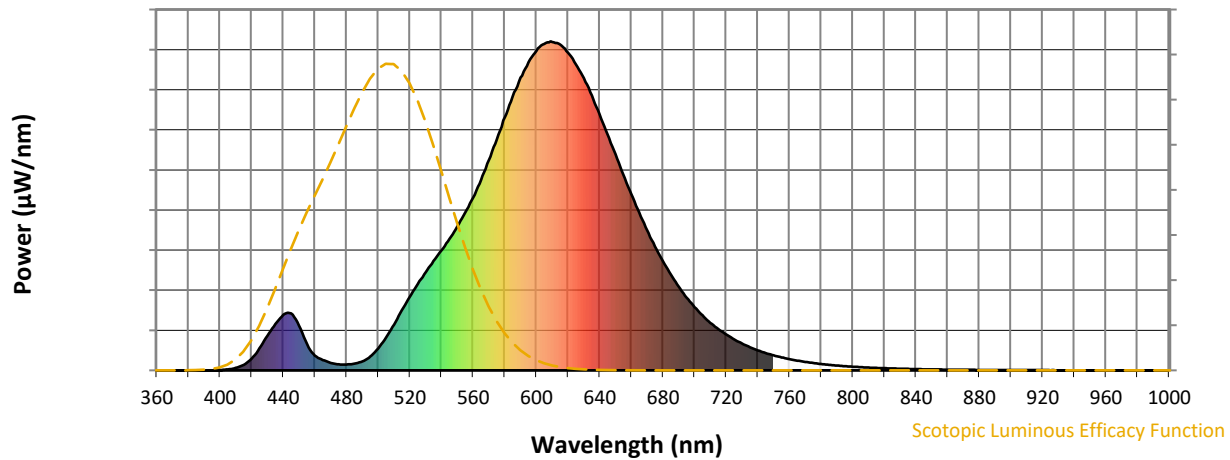


Photopic Lumens: NR

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

Scotopic Flux vs. Wavelength



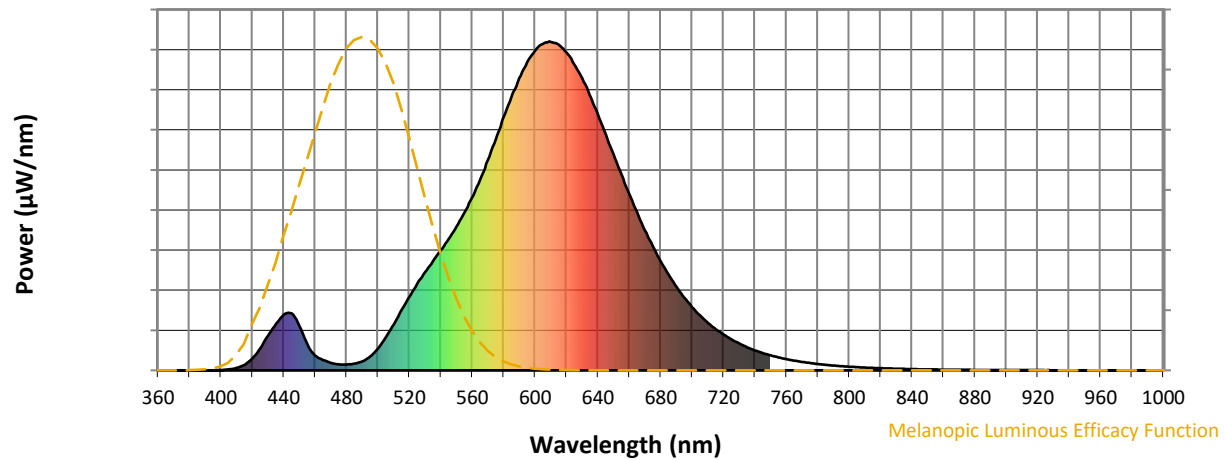
Scotopic Lumens: NR

S/P: 0.8

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.21

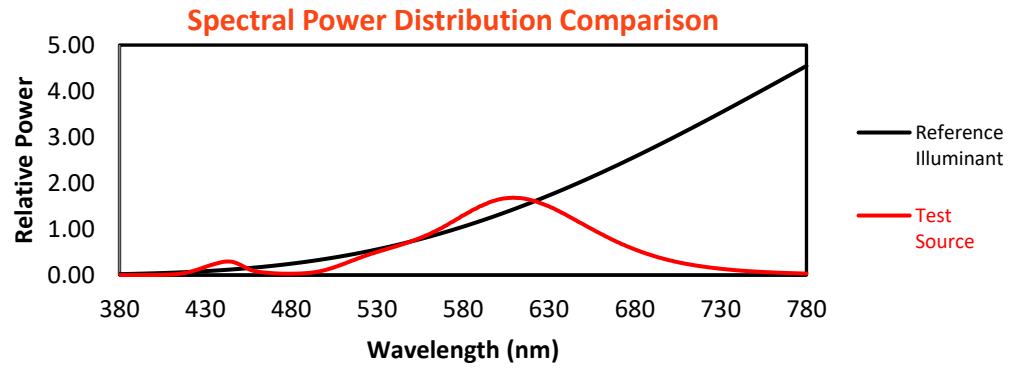
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

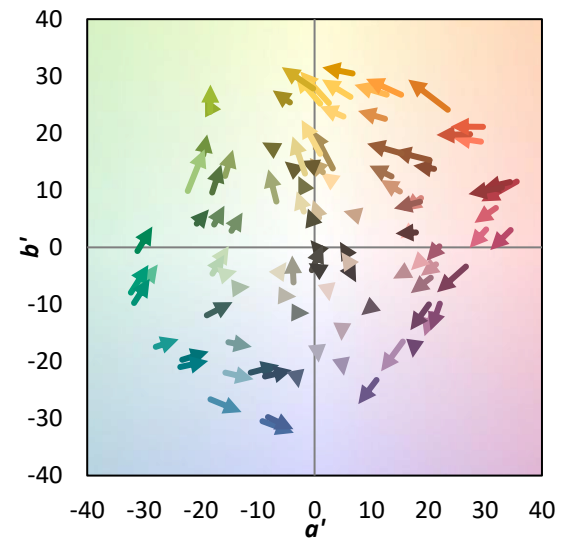
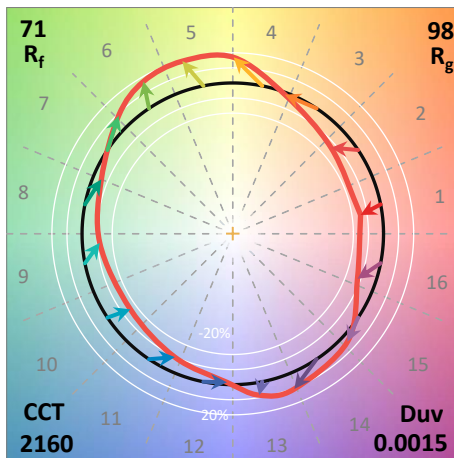
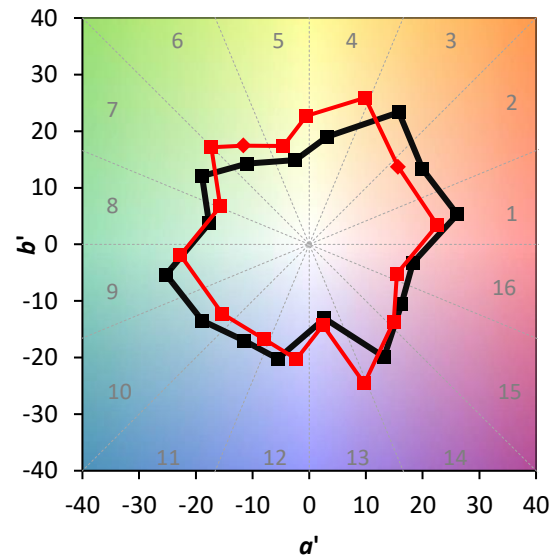
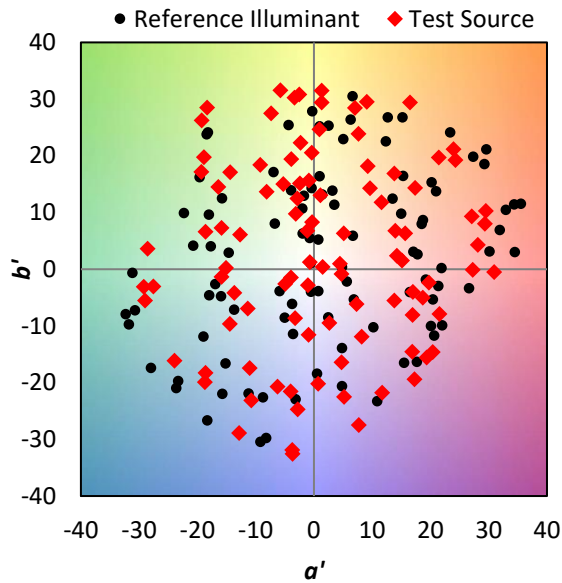
TM-30-18

Summary

$R_f = 70.6$
 $R_g = 97.6$
 $CIE R_a = 71.9$
 $R_g = -17.8$

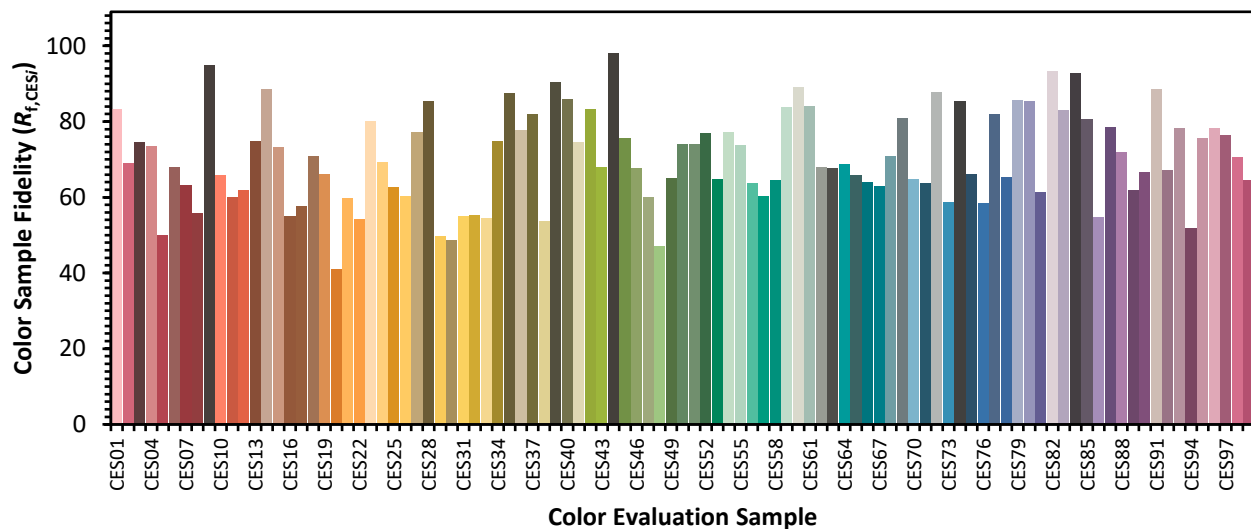


Color Vector Graphics

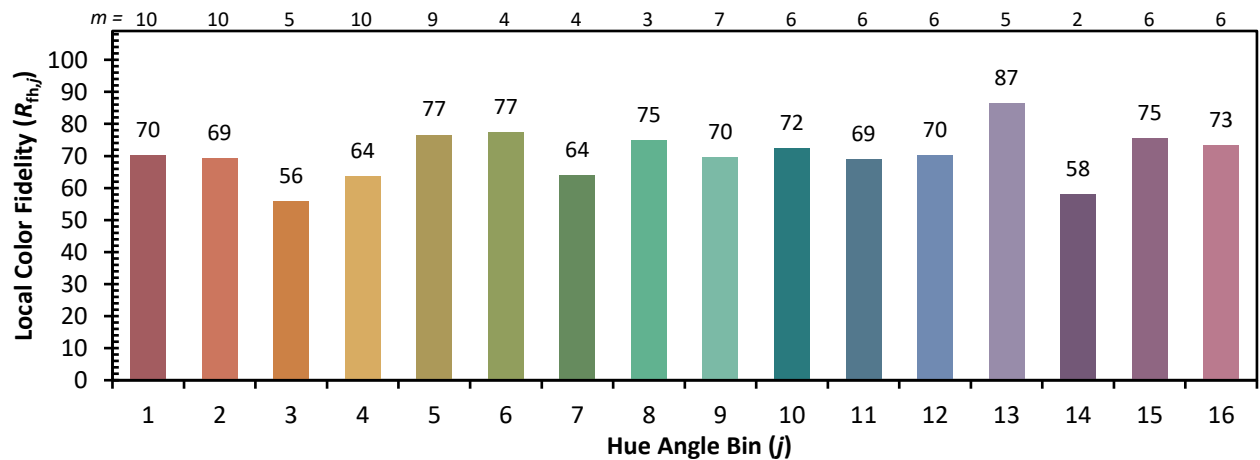
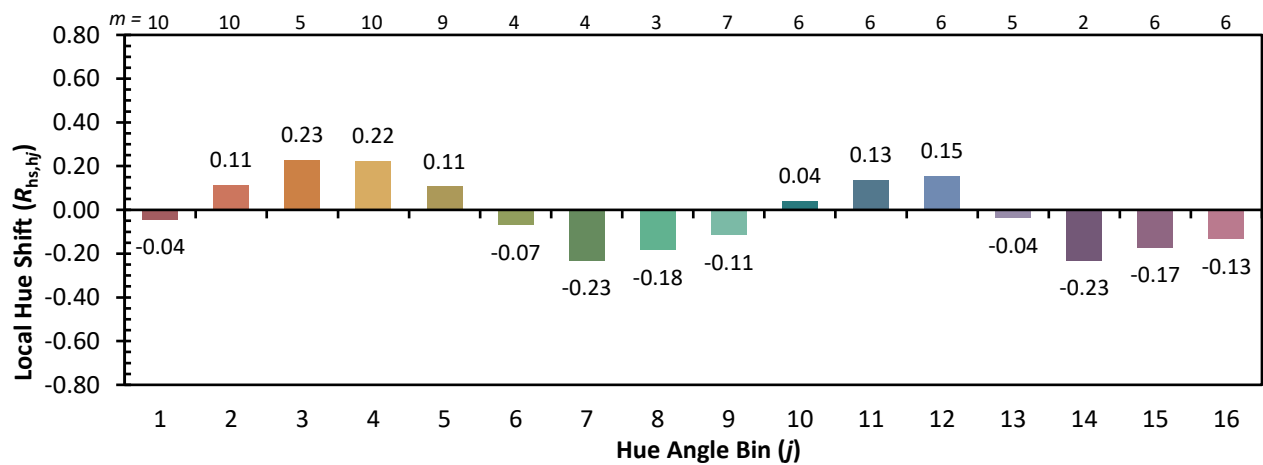
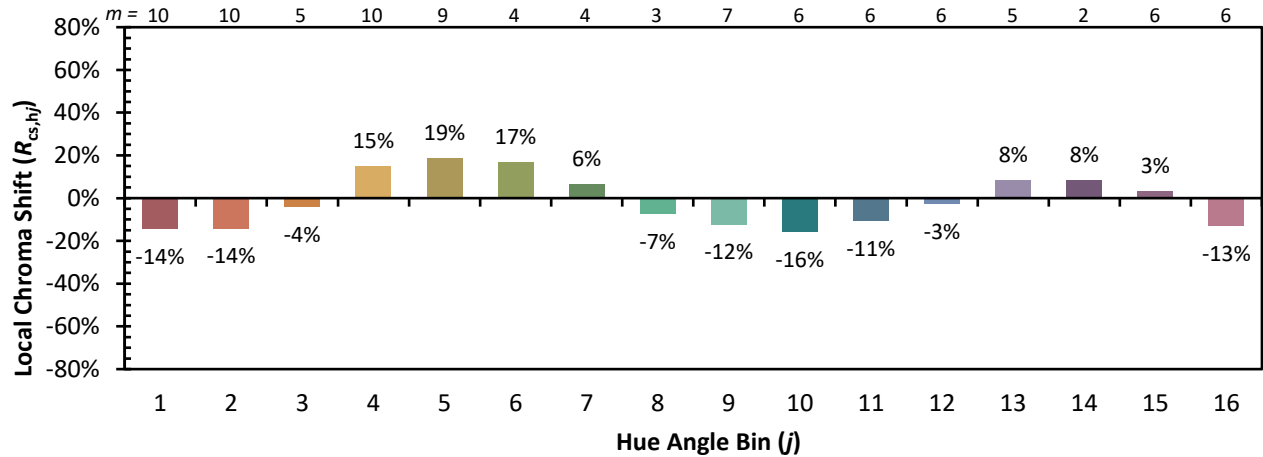


Individual Sample Fidelity Index ($R_{f,i}$)

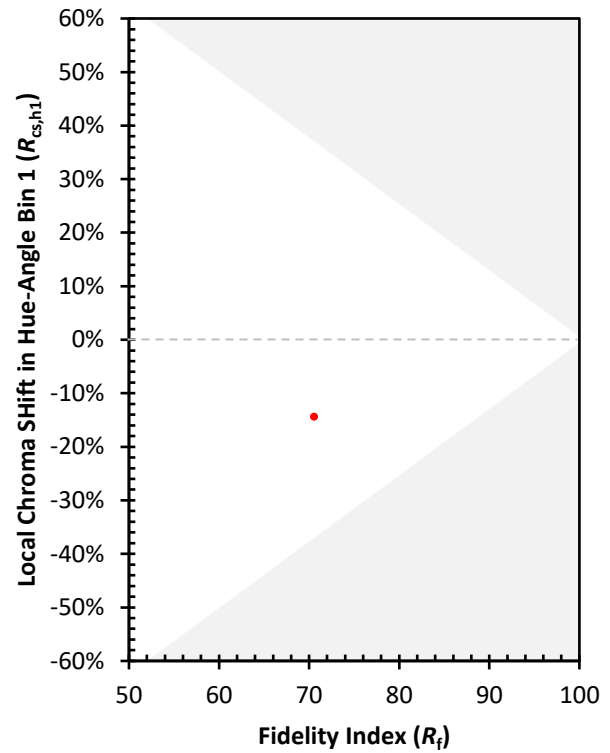
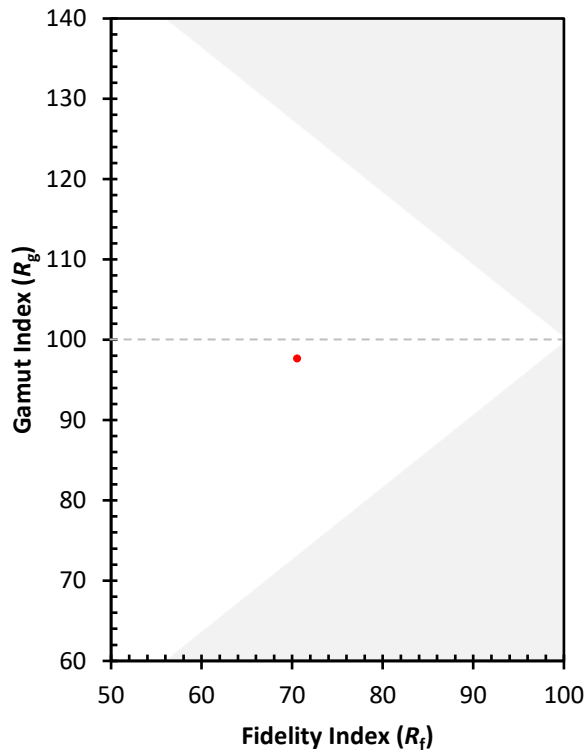
CES01 = 87	CES26 = 60	CES51 = 74	CES76 = 58
CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82 = 93
CES08 = 43	CES33 = 55	CES58 = 64	CES83 = 83
CES09 = 29	CES34 = 75	CES59 = 84	CES84 = 93
CES10 = 79	CES35 = 88	CES60 = 89	CES85 = 81
CES11 = 62	CES36 = 78	CES61 = 84	CES86 = 55
CES12 = 68	CES37 = 82	CES62 = 68	CES87 = 79
CES13 = 45	CES38 = 54	CES63 = 68	CES88 = 72
CES14 = 75	CES39 = 90	CES64 = 69	CES89 = 62
CES15 = 72	CES40 = 86	CES65 = 66	CES90 = 67
CES16 = 49	CES41 = 75	CES66 = 64	CES91 = 89
CES17 = 51	CES42 = 83	CES67 = 63	CES92 = 67
CES18 = 57	CES43 = 68	CES68 = 71	CES93 = 78
CES19 = 74	CES44 = 98	CES69 = 81	CES94 = 52
CES20 = 68	CES45 = 76	CES70 = 65	CES95 = 76
CES21 = 89	CES46 = 68	CES71 = 64	CES96 = 78
CES22 = 81	CES47 = 60	CES72 = 88	CES97 = 76
CES23 = 92	CES48 = 47	CES73 = 59	CES98 = 71
CES24 = 92	CES49 = 65	CES74 = 85	CES99 = 65
CES25 = 74	CES50 = 74	CES75 = 66	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)