

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: P1049503

Luminaire Tested: **GALN-SA2C-722-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049503
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-722-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 2xLight Square PACKAGE
70CRI 2200K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7575.4 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

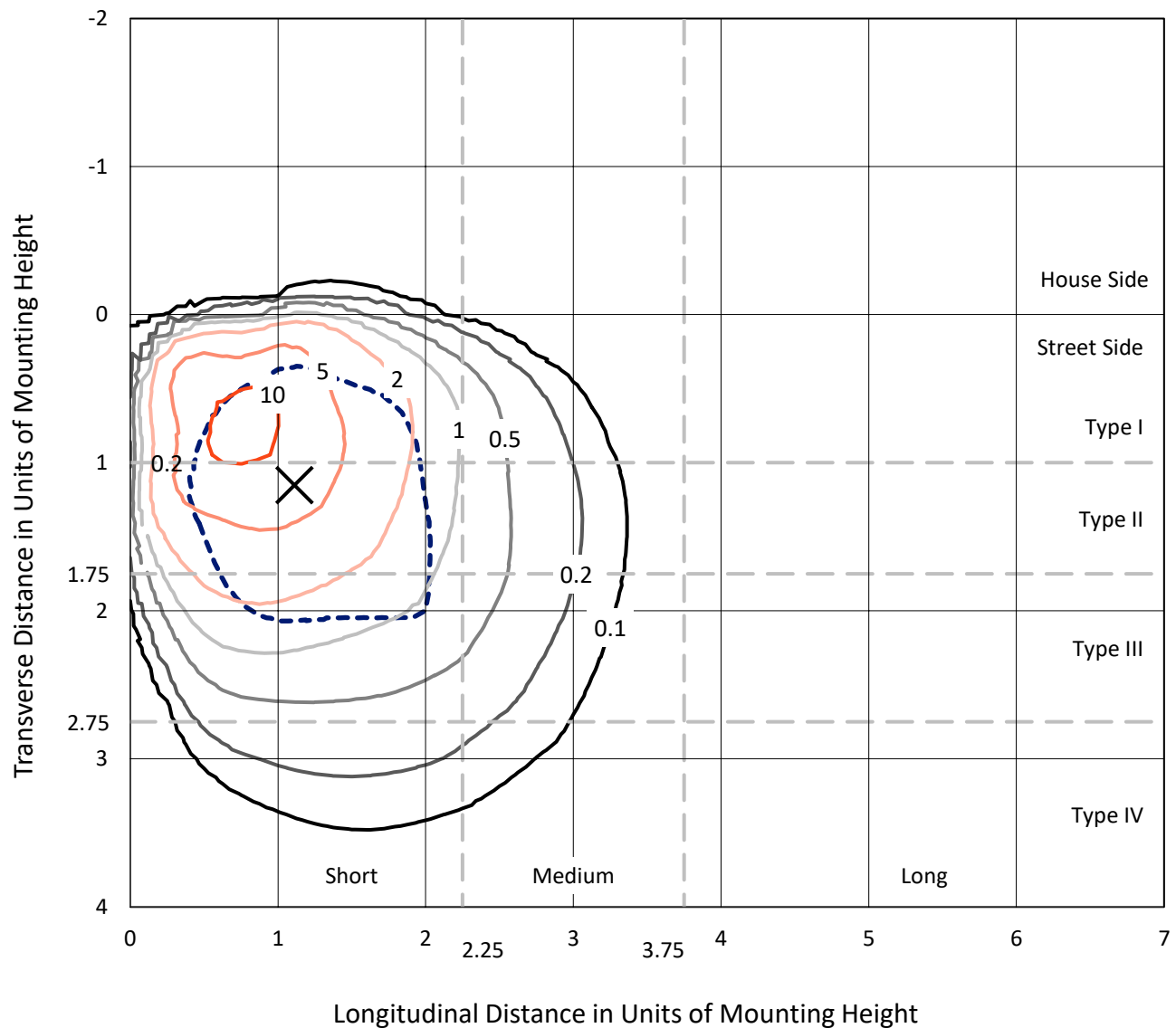
Input Watts (W): 96.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

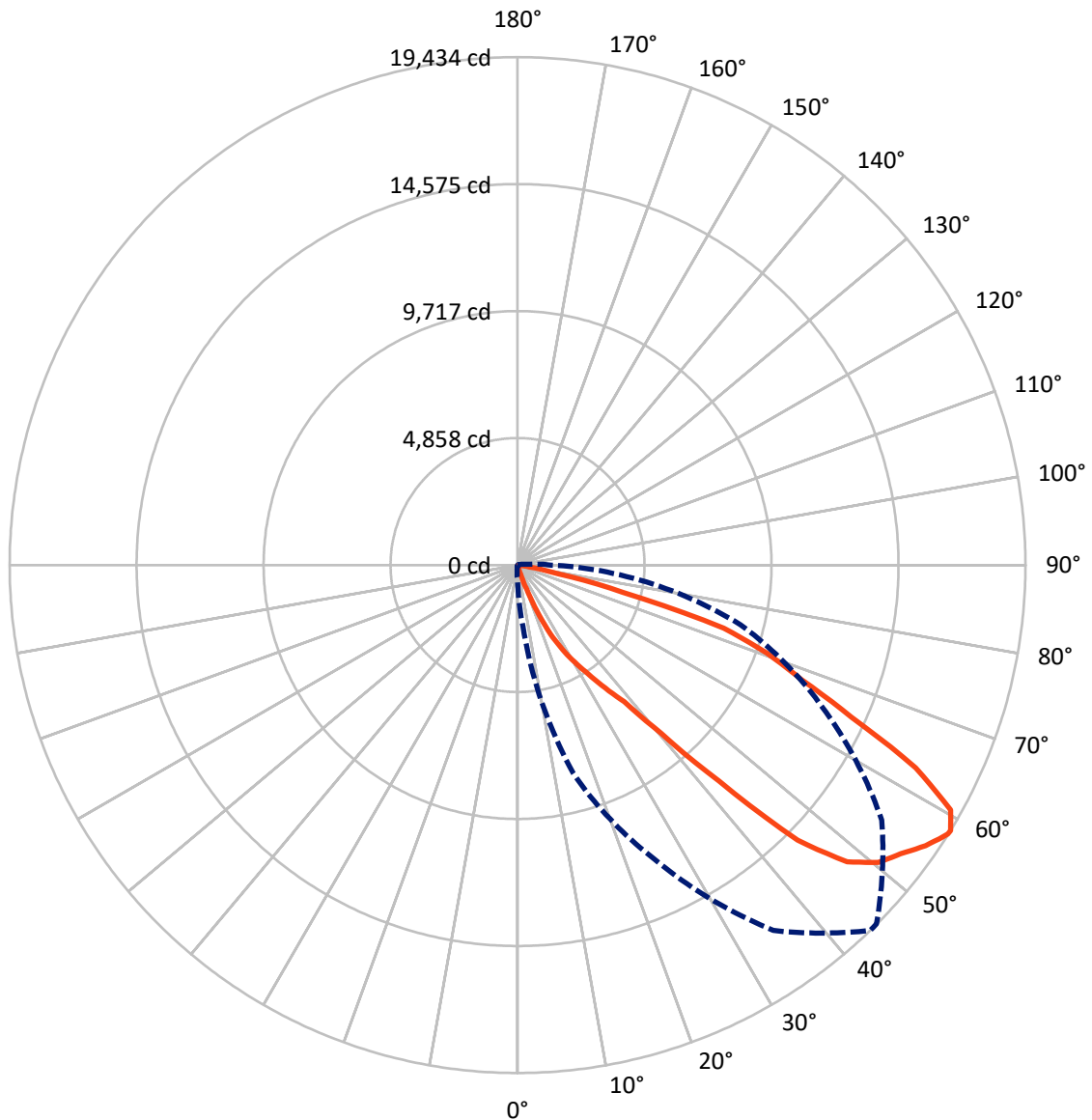
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.2 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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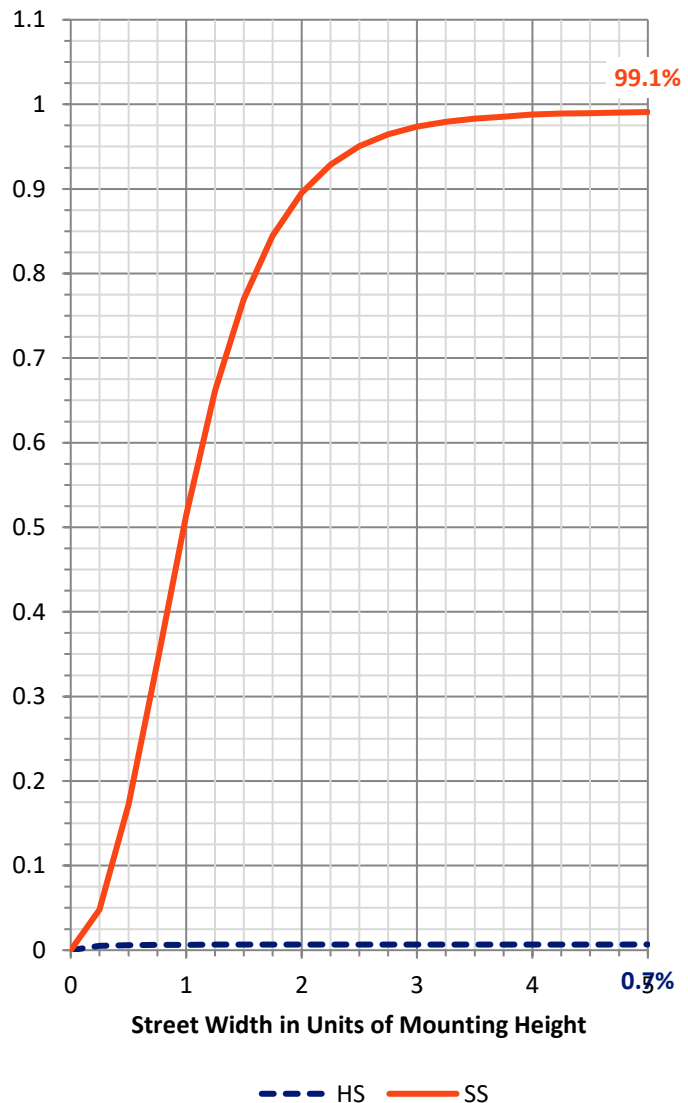
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	51.7	0.0	51.7
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	7523.7	0.0	7523.7
	% Fixture	99.3	0.0	99.3
Total	Lumens	7575.4	0.0	7575.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.0	0.0
10°-20°	16.6	0.2
20°-30°	179.5	2.4
30°-40°	530.7	7.0
40°-50°	1581.9	20.9
50°-60°	2510.0	33.1
60°-70°	2093.7	27.6
70°-80°	645.7	8.5
80°-90°	14.3	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°	7575.4	100.0
0°-180°	7575.4	100.0



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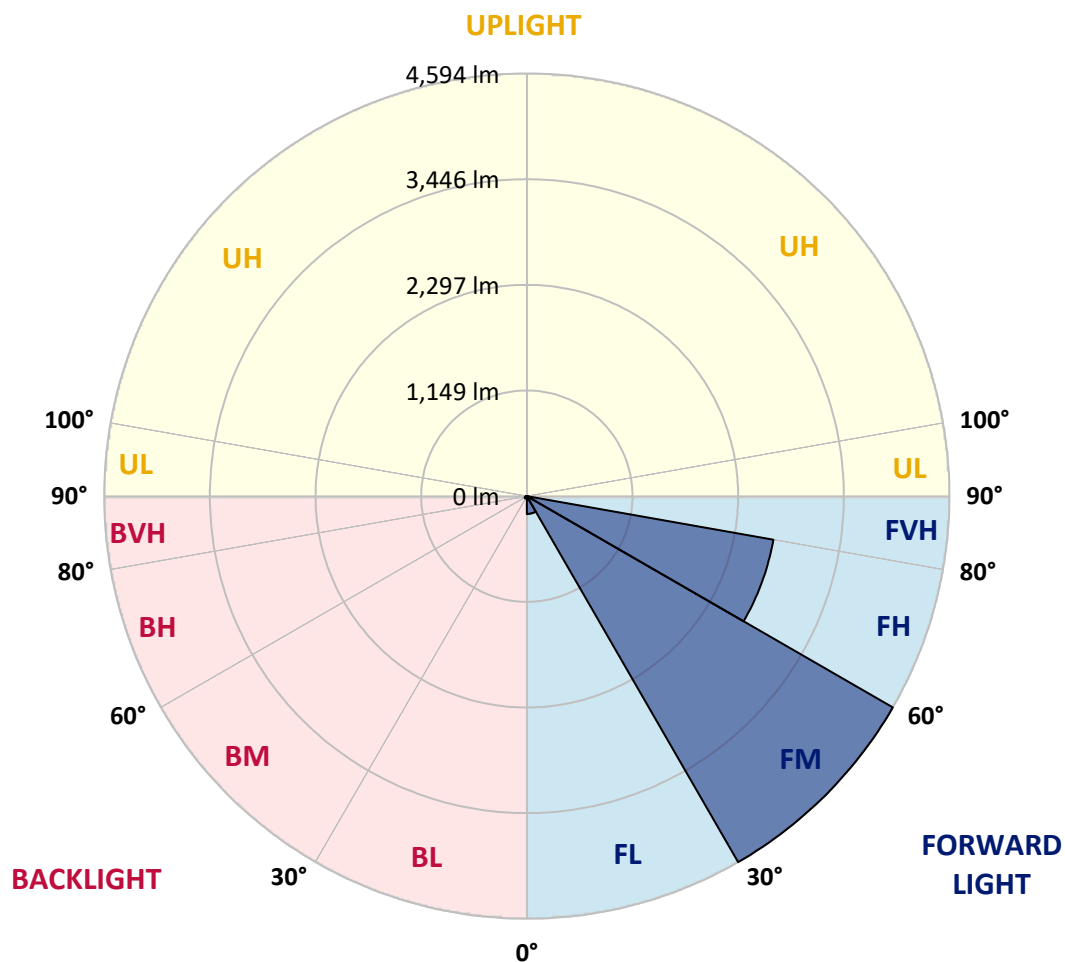
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	194.0	2.6			
FM	(30°-60°)	4594.3	60.6			
FH	(60°-80°)	2721.7	35.9			G2/5000
FVH	(80°-90°)	13.6	0.2			G1/100
BL	(0°-30°)	5.1	0.1	B0/110		
BM	(30°-60°)	28.3	0.4	B0/220		
BH	(60°-80°)	17.7	0.2	B0/110		G0/110
BVH	(80°-90°)	0.7	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°	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2
2.5°	42.9	42.9	41.2	38.9	36.6	34.3	33.8	32.6	32.0	31.5	30.9
5°	44.6	44.6	44.1	42.3	40.1	38.3	38.3	36.6	35.5	34.3	33.2
7.5°	45.8	46.4	47.5	46.9	45.8	44.1	44.1	42.9	41.2	38.3	36.6
10°	47.5	49.2	51.5	52.6	53.2	53.2	52.6	52.1	49.2	45.2	40.6
12.5°	49.2	52.6	58.4	64.1	67.5	72.1	71.5	70.4	62.9	54.4	46.4
15°	52.6	57.8	69.8	86.4	112.2	128.2	134.5	128.8	104.2	73.2	53.8
17.5°	56.7	65.2	101.3	180.8	296.4	351.4	384.6	357.7	236.9	139.1	67.5
20°	60.7	79.5	188.3	468.7	769.1	948.8	998.6	920.8	591.1	265.0	100.1
22.5°	67.5	111.6	381.7	968.8	1657.3	1926.8	1977.7	1728.8	1116.5	523.0	150.5
25°	81.8	161.9	658.1	1578.9	2473.3	2928.2	2907.1	2580.9	1811.2	835.5	228.9
27.5°	102.4	235.8	995.2	2243.2	3255.0	3656.1	3704.2	3300.8	2414.3	1228.6	325.0
30°	132.2	326.8	1356.8	2775.4	3881.6	4315.4	4323.4	3906.2	2954.0	1573.7	442.9
32.5°	160.8	412.6	1673.3	3289.9	4499.1	4974.6	5010.1	4496.8	3356.9	1933.1	545.4
35°	182.5	468.7	1993.7	3742.0	5121.7	5776.9	5774.6	5165.2	3834.1	2254.1	687.3
37.5°	184.3	524.8	2283.9	4204.4	5910.3	6643.9	6716.6	6044.7	4411.0	2651.3	861.2
40°	180.3	587.7	2651.3	4925.4	7331.2	8456.8	8520.9	7674.0	5568.1	3331.1	1133.1
42.5°	184.8	697.0	3247.6	6257.0	9690.6	11307.2	11430.8	10540.4	7695.1	4718.3	1617.8
45°	208.9	902.4	4496.8	8484.8	13053.7	15024.6	14983.4	13701.0	10170.1	6829.9	2576.9
47.5°	288.4	1405.5	6348.6	10653.1	15203.1	16958.2	16993.7	15426.3	11614.5	8453.4	3868.5
50°	443.5	2150.5	7904.6	11799.4	16127.3	17888.2	17855.0	16043.8	12163.3	9252.8	4659.9
52.5°	576.8	2689.6	8685.1	12201.6	16245.8	18347.7	18345.4	16206.3	12248.6	9321.5	4758.9
55°	610.0	2730.2	8691.4	12223.4	16511.3	18949.1	19024.7	16606.3	12359.0	9021.6	4386.3
57.5°	596.9	2417.2	8328.6	12349.3	16984.0	19414.4	19418.4	16993.7	12639.4	8837.9	3769.5
58°	585.4	2368.0	8255.4	12420.8	17065.3	19433.8	19424.1	17011.5	12867.8	8831.1	3672.7
60°	521.3	2056.1	7969.8	12603.4	16944.5	19034.4	18943.4	16624.0	12834.0	8760.7	3185.8
62.5°	409.7	1604.0	7688.8	12392.2	15650.1	17100.7	17138.5	14717.9	11699.8	8350.4	2611.8
65°	326.2	1195.4	7102.8	10870.0	12887.2	14043.2	14183.9	11968.2	9765.6	7070.8	1925.6
67.5°	259.8	864.1	5958.3	8654.2	10197.6	11720.4	11822.8	10048.2	7565.8	5417.5	1368.3
70°	211.2	584.3	4112.8	6329.2	8411.0	10123.2	10129.5	8347.5	5647.0	3549.7	858.4
72.5°	187.1	404.6	2387.5	4615.8	6820.1	8249.1	8082.5	6773.8	4340.0	2102.5	511.6
75°	161.9	268.4	1170.8	2821.8	4135.1	4163.2	4226.7	3142.3	2169.4	999.7	306.7
77.5°	133.3	190.6	461.2	770.8	1240.1	1587.4	1646.4	1247.5	721.6	246.1	163.7
80°	91.6	90.4	124.2	236.3	354.8	444.6	414.9	321.0	188.8	94.4	58.4
82.5°	39.5	42.9	56.1	67.5	54.9	53.2	50.9	32.6	25.2	19.5	12.0
85°	12.6	11.4	12.0	12.0	9.7	7.4	7.4	3.4	0.0	0.0	0.0
87.5°	6.3	5.2	5.2	4.6	2.9	1.1	0.6	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2
2.5°	30.3	30.3	29.2	28.0	27.5	26.3	25.8	25.2	24.6	24.0	23.5
5°	32.0	31.5	29.8	28.0	26.3	24.6	23.5	22.3	21.2	20.6	20.0
7.5°	34.9	33.8	30.3	27.5	25.2	22.9	21.7	20.0	18.9	17.2	16.6
10°	38.3	36.1	31.5	28.0	24.6	21.7	20.0	18.3	16.6	14.3	13.7
12.5°	42.9	38.9	33.2	27.5	23.5	20.0	18.3	16.0	14.3	12.6	11.4
15°	46.9	41.8	33.8	27.5	22.3	18.3	16.0	13.7	12.0	9.7	8.6
17.5°	52.6	44.1	33.2	25.8	20.6	16.0	13.7	12.0	9.2	5.7	4.6
20°	62.4	45.8	32.0	24.0	17.7	13.2	10.3	8.0	4.0	1.1	0.0
22.5°	77.8	50.4	30.9	21.7	15.5	10.3	6.9	2.9	0.0	0.0	0.0
25°	107.6	58.4	30.9	20.6	13.7	7.4	2.3	0.0	0.0	0.0	0.0
27.5°	143.1	69.2	30.9	17.7	10.9	4.0	0.0	0.0	0.0	0.0	0.0
30°	179.1	81.3	30.9	15.5	8.6	0.6	0.0	0.0	0.0	0.0	0.0
32.5°	213.5	91.6	31.5	13.2	5.7	0.0	0.0	0.0	0.0	0.0	0.0
35°	248.4	93.3	30.9	11.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	293.0	89.8	29.2	10.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0
40°	360.5	91.6	27.5	9.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	485.3	99.0	25.2	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	838.9	132.8	22.9	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1387.7	238.6	22.3	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	1771.1	300.4	23.5	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	1768.3	334.8	24.6	11.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0
55°	1572.0	341.1	26.3	12.6	7.4	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1313.9	311.3	30.3	15.5	13.7	0.0	0.0	0.0	0.0	0.0	0.0
58°	1268.1	297.6	31.5	16.0	14.9	0.0	0.0	0.0	0.0	0.0	0.0
60°	1039.2	242.6	40.1	20.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	717.6	211.7	45.8	25.8	20.6	0.0	0.0	0.0	0.0	0.0	0.0
65°	507.6	191.1	49.8	27.5	16.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	379.4	176.3	54.9	28.0	8.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	290.7	165.4	67.5	29.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	236.9	152.8	81.8	30.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	196.3	137.9	79.0	33.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	130.5	107.0	72.1	33.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	45.8	42.3	56.1	29.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.9	5.7	8.0	10.3	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°	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2
2.5°	23.5	23.5	22.9	23.5	23.5	24.6	27.5	31.5	36.1	37.8	39.5
5°	19.5	18.9	18.3	18.3	18.3	20.0	22.3	26.9	32.0	34.3	35.5
7.5°	16.0	15.5	14.9	14.3	14.3	15.5	18.3	23.5	28.6	30.9	32.6
10°	13.2	12.0	11.4	10.9	10.9	12.0	14.9	20.0	25.8	28.0	30.3
12.5°	10.9	9.2	8.0	7.4	6.9	8.6	11.4	16.0	22.3	25.2	27.5
15°	7.4	5.7	4.0	3.4	2.9	4.6	7.4	12.6	18.9	22.3	24.6
17.5°	4.0	1.7	0.6	0.0	0.0	1.1	3.4	9.2	15.5	18.3	21.2
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	11.4	14.3	17.2
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	6.9	9.7	12.6
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.2	7.4
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.4
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	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	4.6	6.3
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°	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2
2.5°	40.6	40.1	38.9	37.8	37.8	37.8	39.5	41.2	42.9	42.9
5°	37.8	37.8	37.2	36.1	36.1	36.6	38.9	41.8	44.1	44.6
7.5°	34.9	36.1	34.9	34.3	34.9	35.5	37.8	41.2	44.6	45.8
10°	33.2	33.8	33.8	33.2	33.2	34.3	36.6	41.2	45.8	47.5
12.5°	30.9	32.0	31.5	31.5	31.5	32.6	35.5	40.6	46.9	49.2
15°	28.6	30.3	30.3	29.8	29.8	30.3	34.3	40.1	48.6	52.6
17.5°	26.3	28.0	28.6	27.5	27.5	28.6	32.6	40.1	49.8	56.7
20°	21.7	24.6	26.3	24.6	24.6	25.8	29.8	37.8	50.4	60.7
22.5°	17.2	20.0	22.3	21.7	21.7	22.3	27.5	36.1	50.9	67.5
25°	12.6	15.5	17.2	18.3	18.3	20.0	25.2	34.9	53.2	81.8
27.5°	7.4	10.9	13.2	14.3	14.9	17.2	23.5	33.8	57.2	102.4
30°	3.4	6.3	9.2	11.4	11.4	15.5	21.7	32.6	62.4	132.2
32.5°	0.0	2.9	4.6	8.0	8.6	12.6	20.0	31.5	69.8	160.8
35°	0.0	0.0	2.3	6.3	6.3	10.3	18.3	30.3	81.3	182.5
37.5°	0.0	0.0	0.0	4.6	5.2	9.2	17.7	29.8	83.5	184.3
40°	0.0	0.0	0.0	3.4	4.0	8.6	17.7	30.3	75.5	180.3
42.5°	0.0	0.0	0.0	2.3	2.9	8.6	17.7	31.5	68.1	184.8
45°	0.0	0.0	0.0	1.7	2.3	9.2	17.2	30.9	64.1	208.9
47.5°	0.0	0.0	0.0	2.3	3.4	9.2	16.6	30.3	64.7	288.4
50°	0.0	0.0	0.0	2.9	4.0	9.2	17.2	29.2	71.0	443.5
52.5°	0.0	0.0	0.0	2.3	3.4	10.3	18.9	28.6	77.3	576.8
55°	0.0	0.0	0.0	0.6	1.7	13.2	20.6	28.6	87.0	610.0
57.5°	0.0	0.0	0.0	0.0	0.0	14.9	23.5	30.3	103.0	596.9
58°	0.0	0.0	0.0	0.0	0.0	14.9	24.0	30.3	104.2	585.4
60°	0.0	0.0	0.0	0.0	0.0	14.9	26.3	33.8	112.2	521.3
62.5°	0.0	0.0	0.0	0.0	0.0	12.6	31.5	42.3	116.7	409.7
65°	0.0	0.0	0.0	0.0	0.0	10.3	37.2	46.4	120.2	326.2
67.5°	0.0	0.0	0.0	0.0	0.0	9.7	38.3	46.9	121.9	259.8
70°	0.0	0.0	0.0	0.0	0.0	10.3	37.8	50.4	127.6	211.2
72.5°	0.0	0.0	0.0	0.0	0.0	11.4	34.3	55.5	127.6	187.1
75°	0.0	0.0	0.0	0.0	0.0	12.0	32.0	62.4	116.2	161.9
77.5°	0.0	0.0	0.0	0.0	0.0	11.4	31.5	72.7	103.6	133.3
80°	1.1	1.7	1.7	1.1	1.1	9.7	30.9	73.8	88.1	91.6
82.5°	3.4	4.6	4.0	2.9	2.9	8.6	27.5	61.8	45.8	39.5
85°	6.3	7.4	7.4	6.3	6.3	8.0	17.2	22.3	15.5	12.6
87.5°	8.6	9.7	9.7	8.6	8.6	8.0	7.4	6.9	6.3	6.3
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

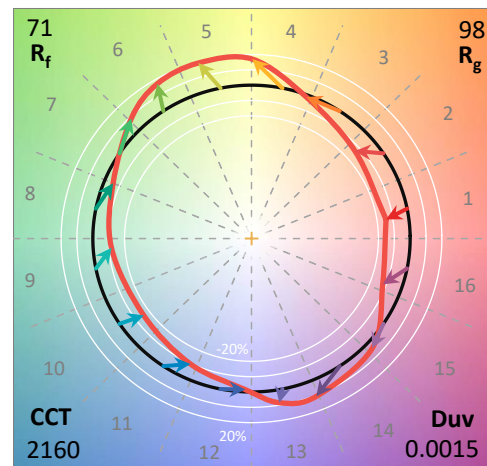
Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

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

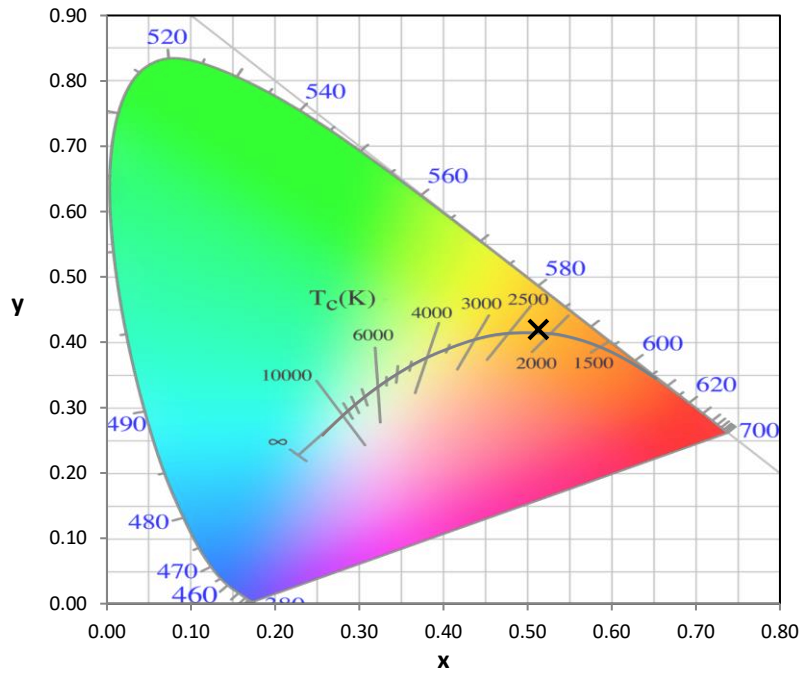
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-2

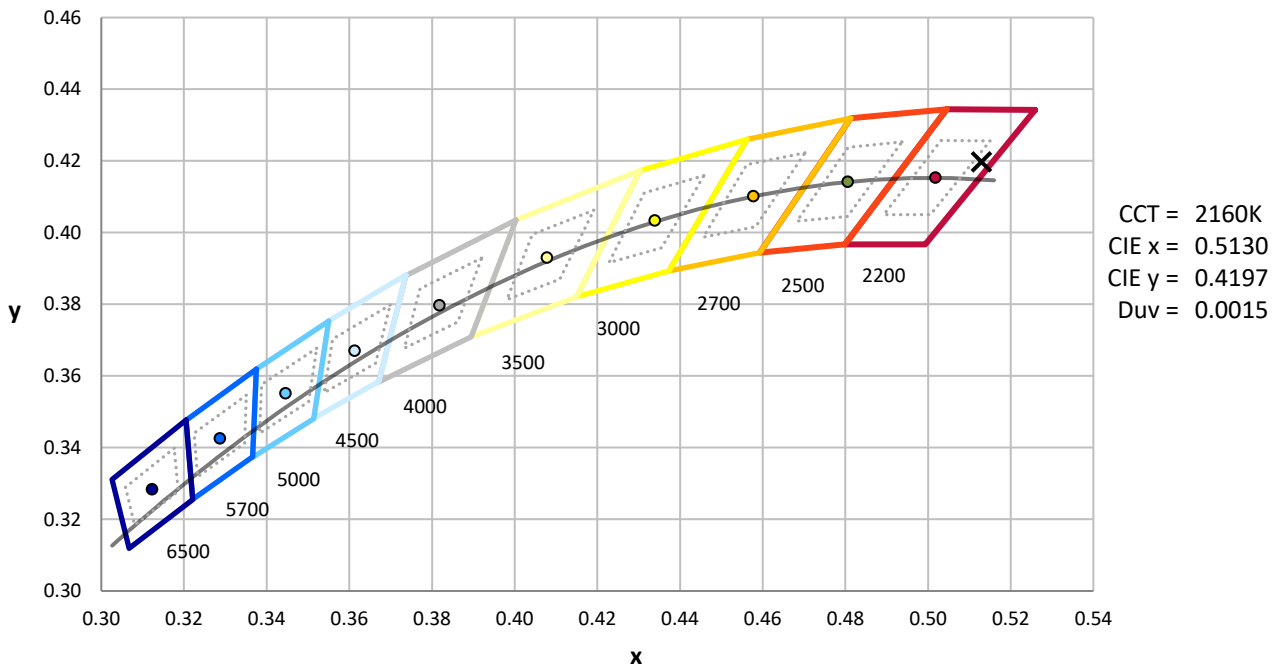
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



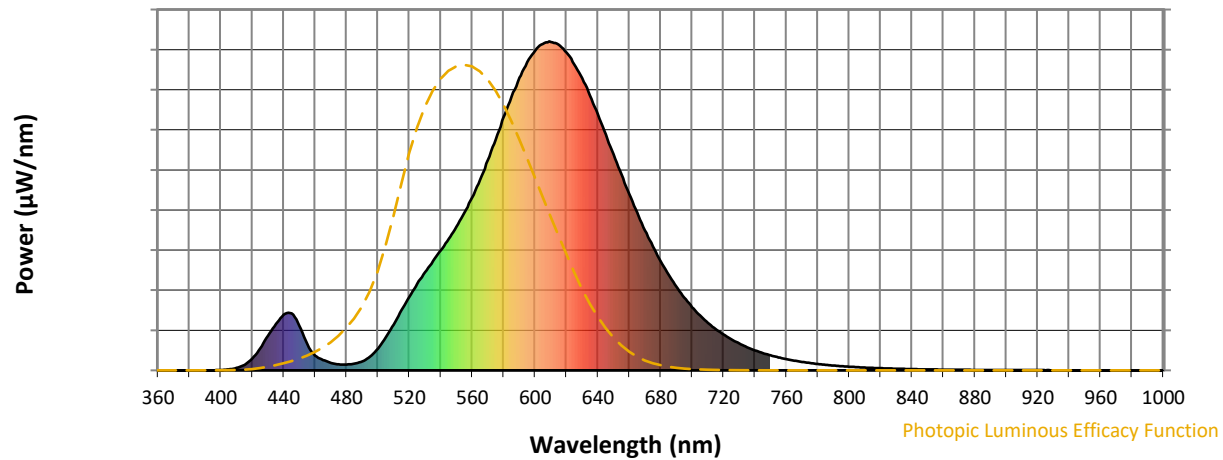
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

Photopic Flux vs. Wavelength

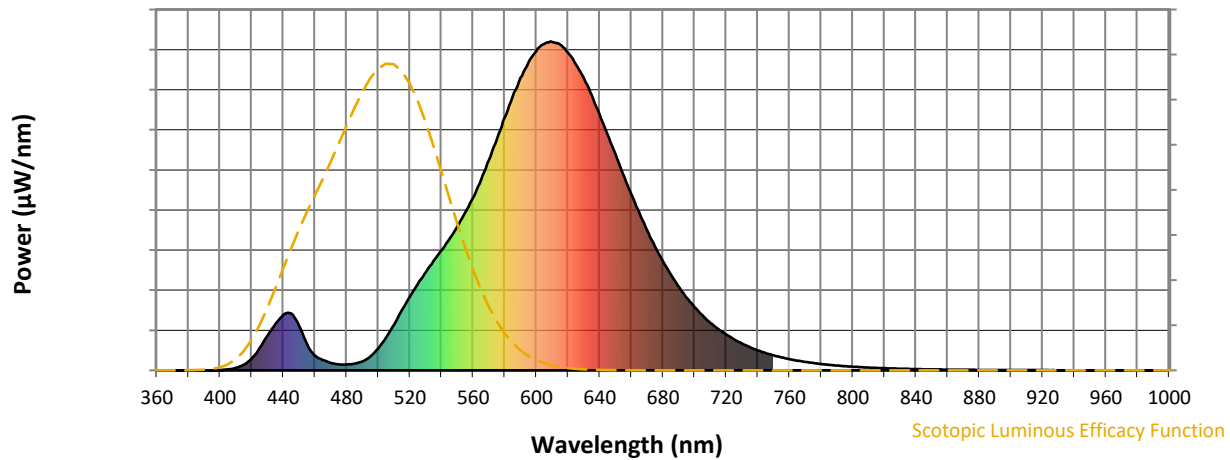


Photopic Lumens: NR

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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

Scotopic Flux vs. Wavelength



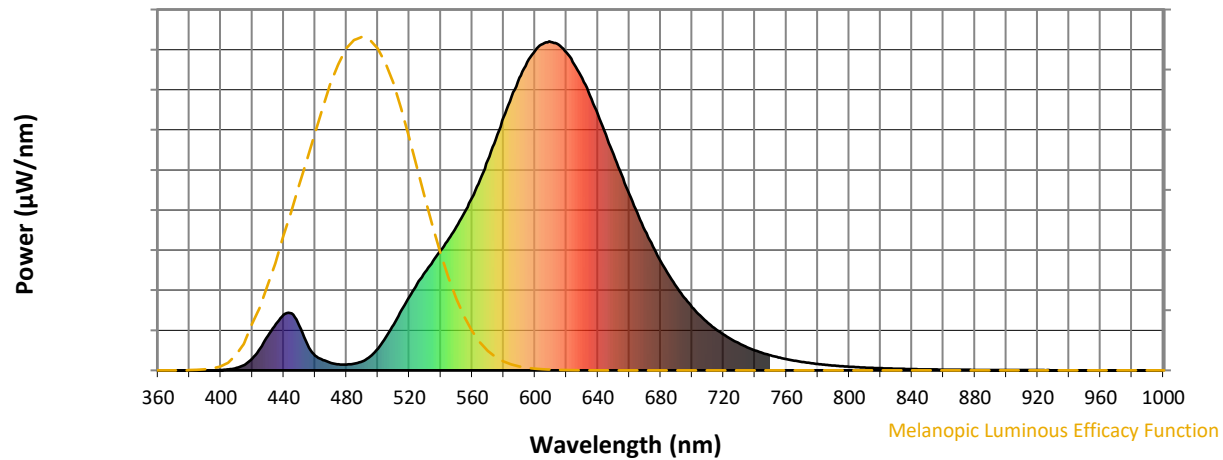
Scotopic Lumens: NR

S/P: 0.8

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			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.21

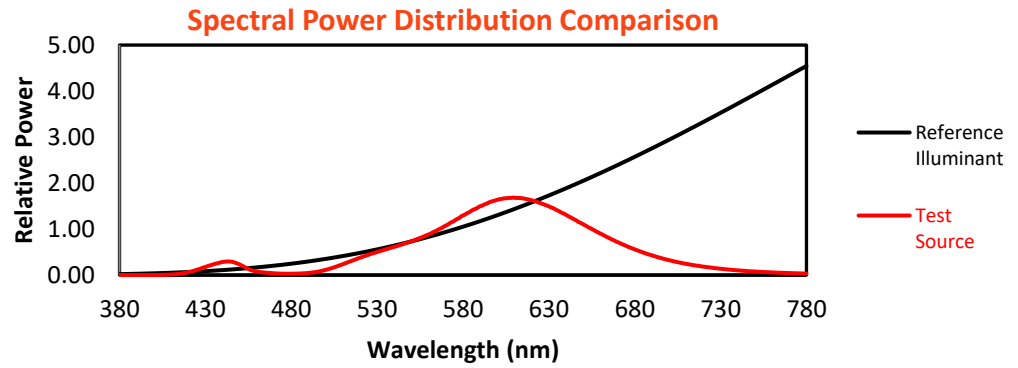
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27	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

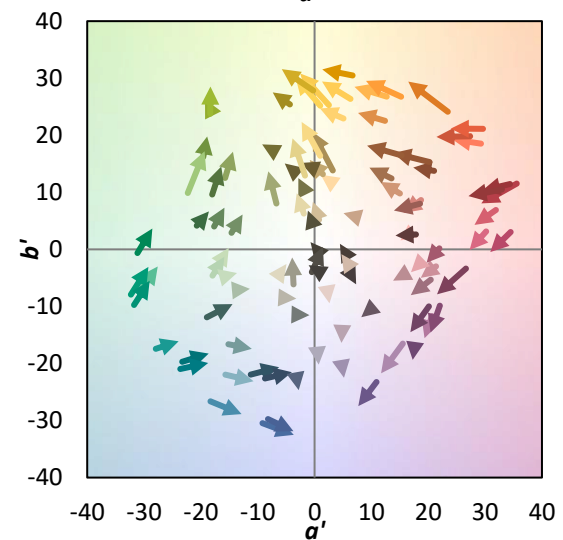
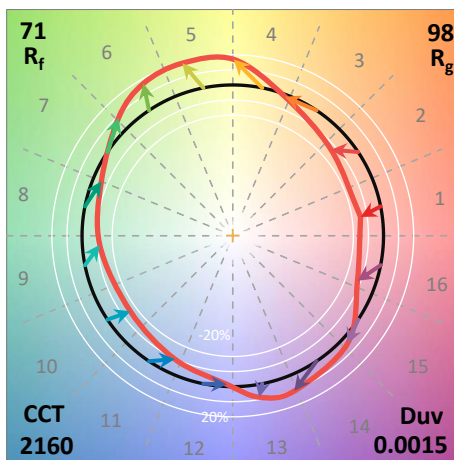
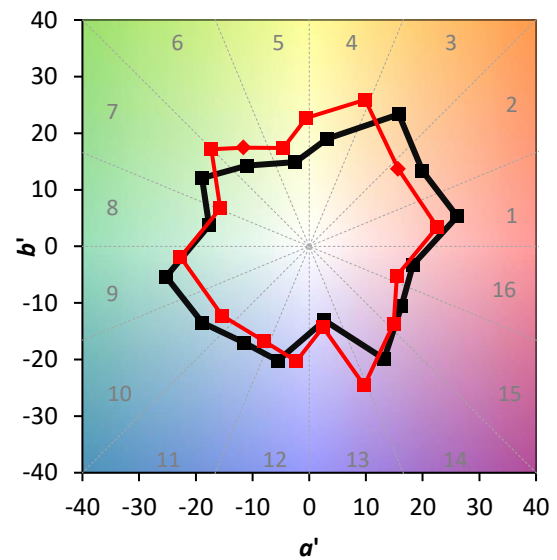
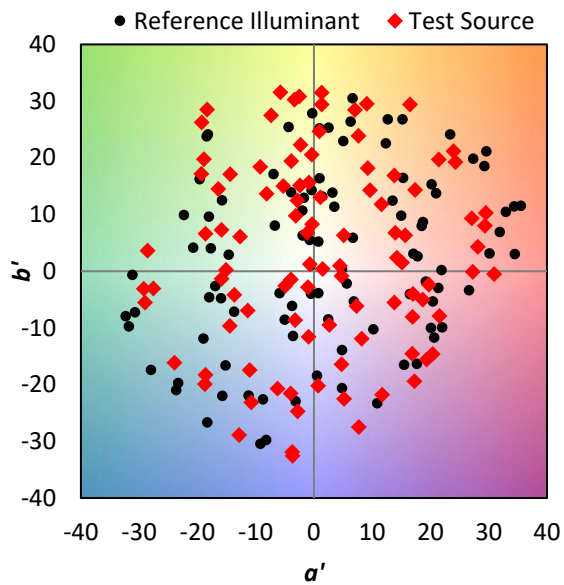
TM-30-18

Summary

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

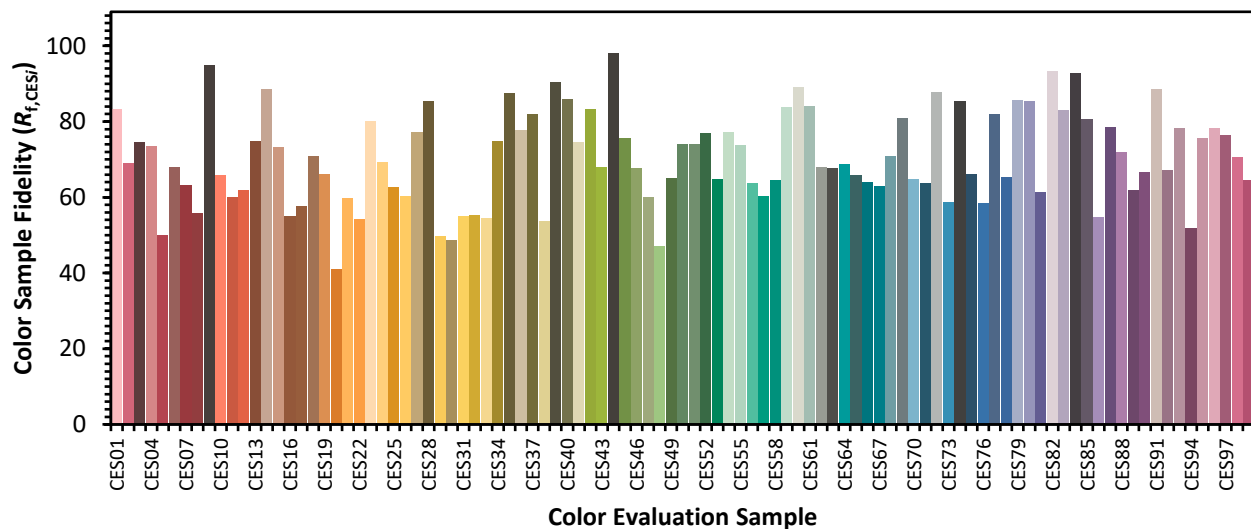


Color Vector Graphics

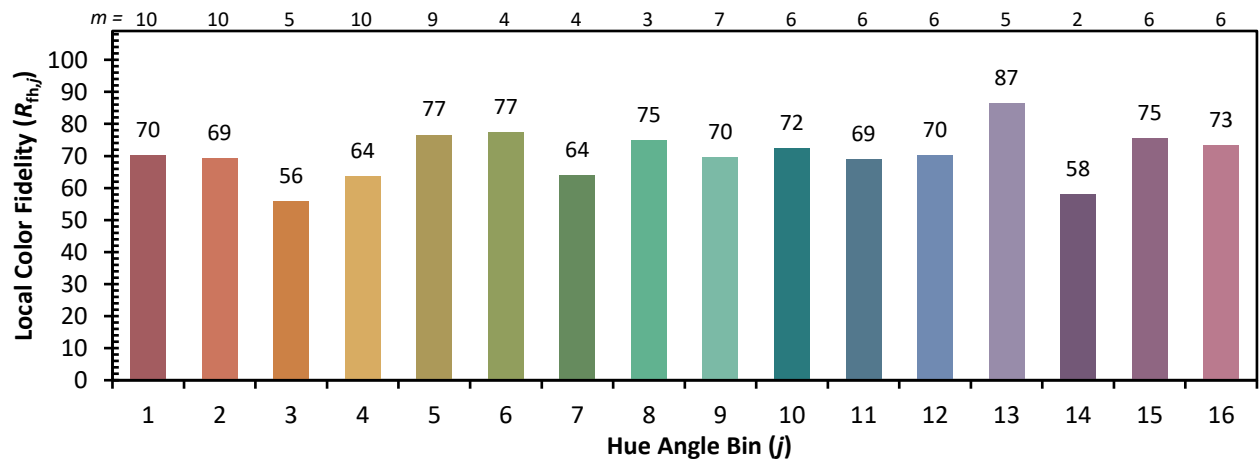
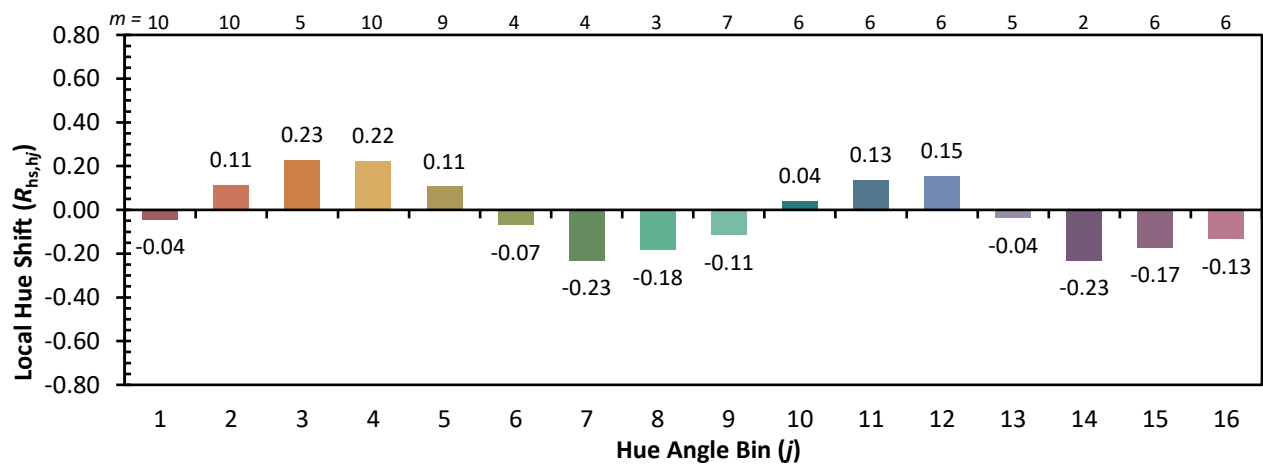
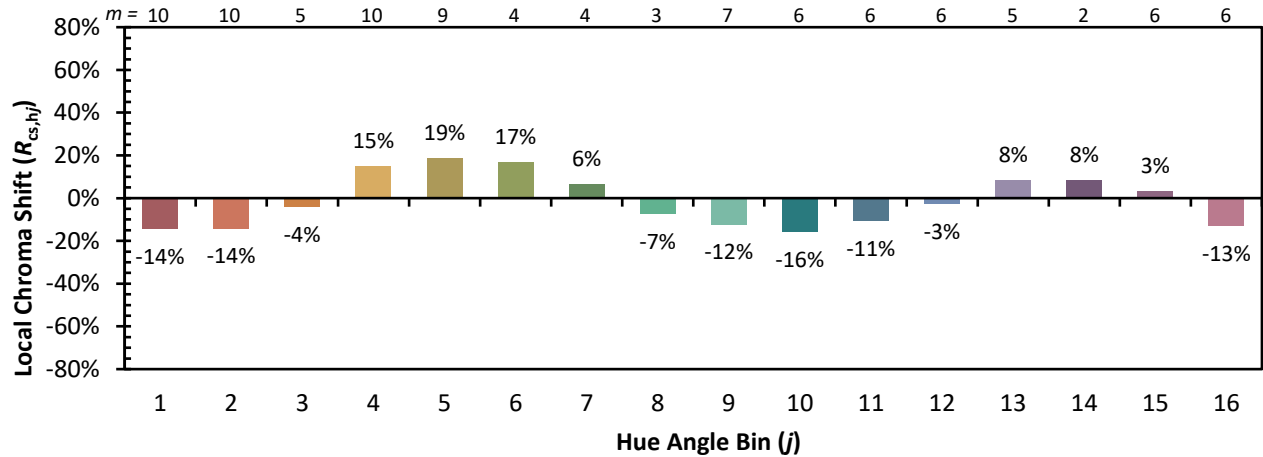


Individual Sample Fidelity Index ($R_{f,i}$)

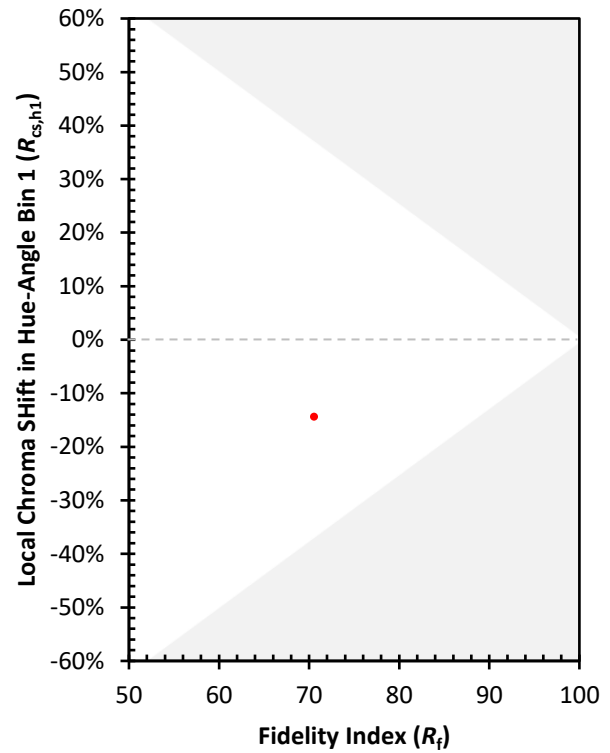
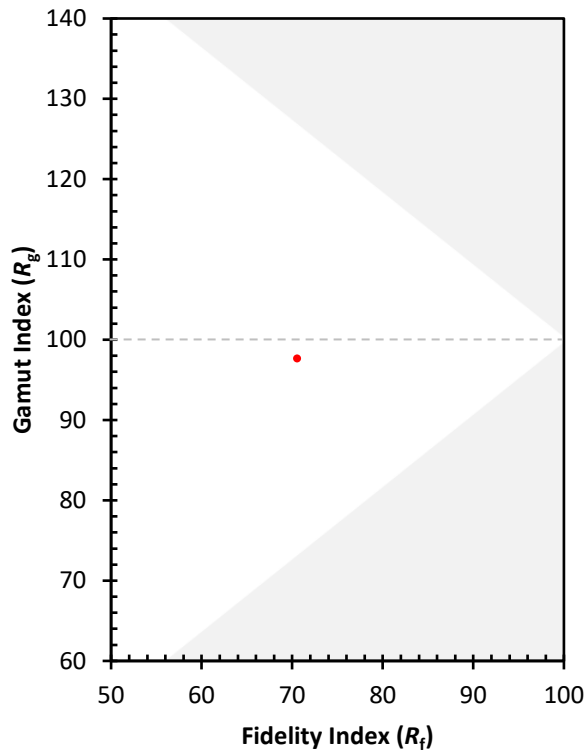
CES01 = 87	CES26 = 60	CES51 = 74	CES76 = 58
CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82 = 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)