

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: LUMARK

Report Number: P1067871

Luminaire Tested: **NAV-SA1C-740-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067871
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA1C-740-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 1xLight Square PACKAGE
70CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4961.9 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 50.1
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

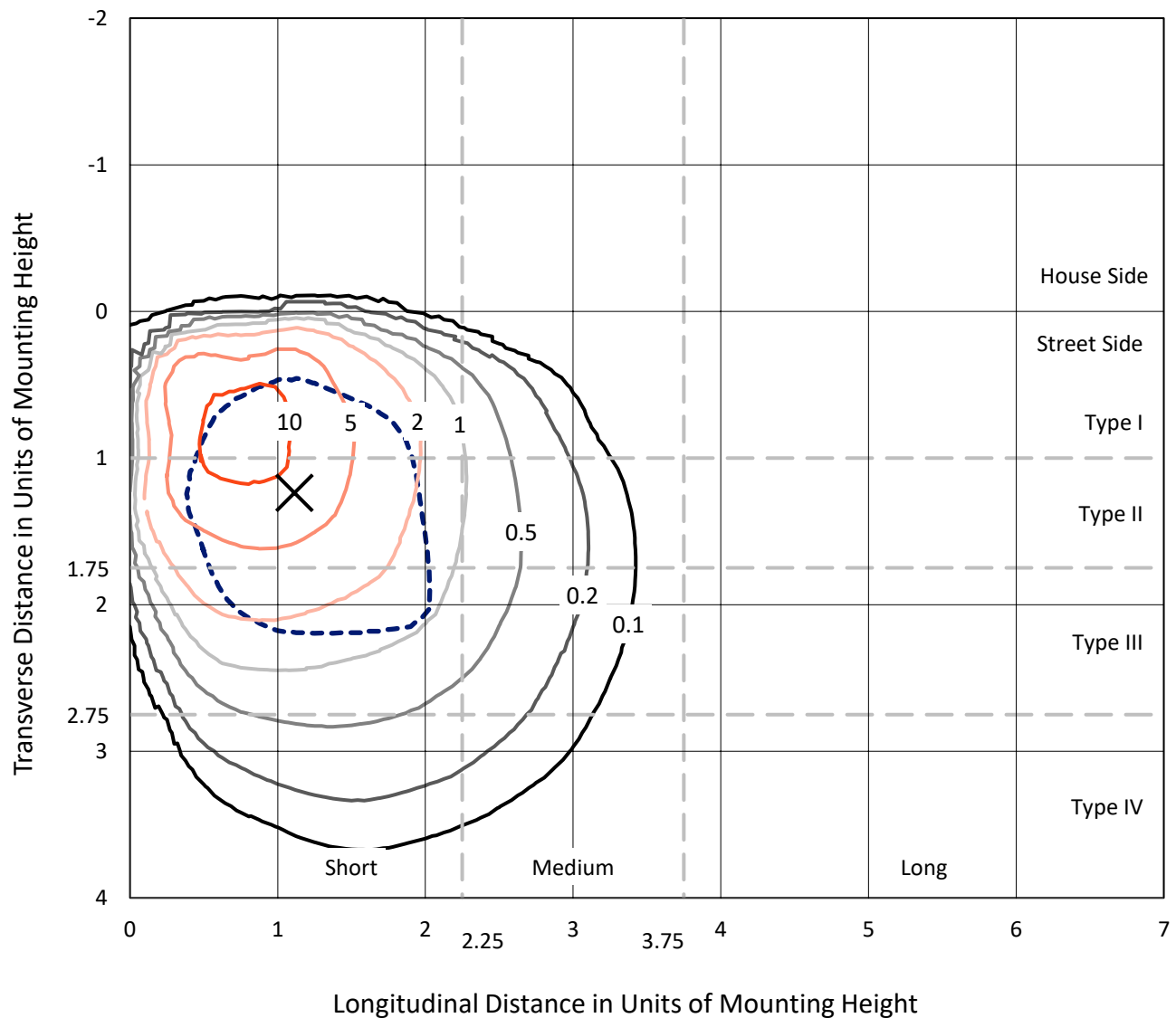


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

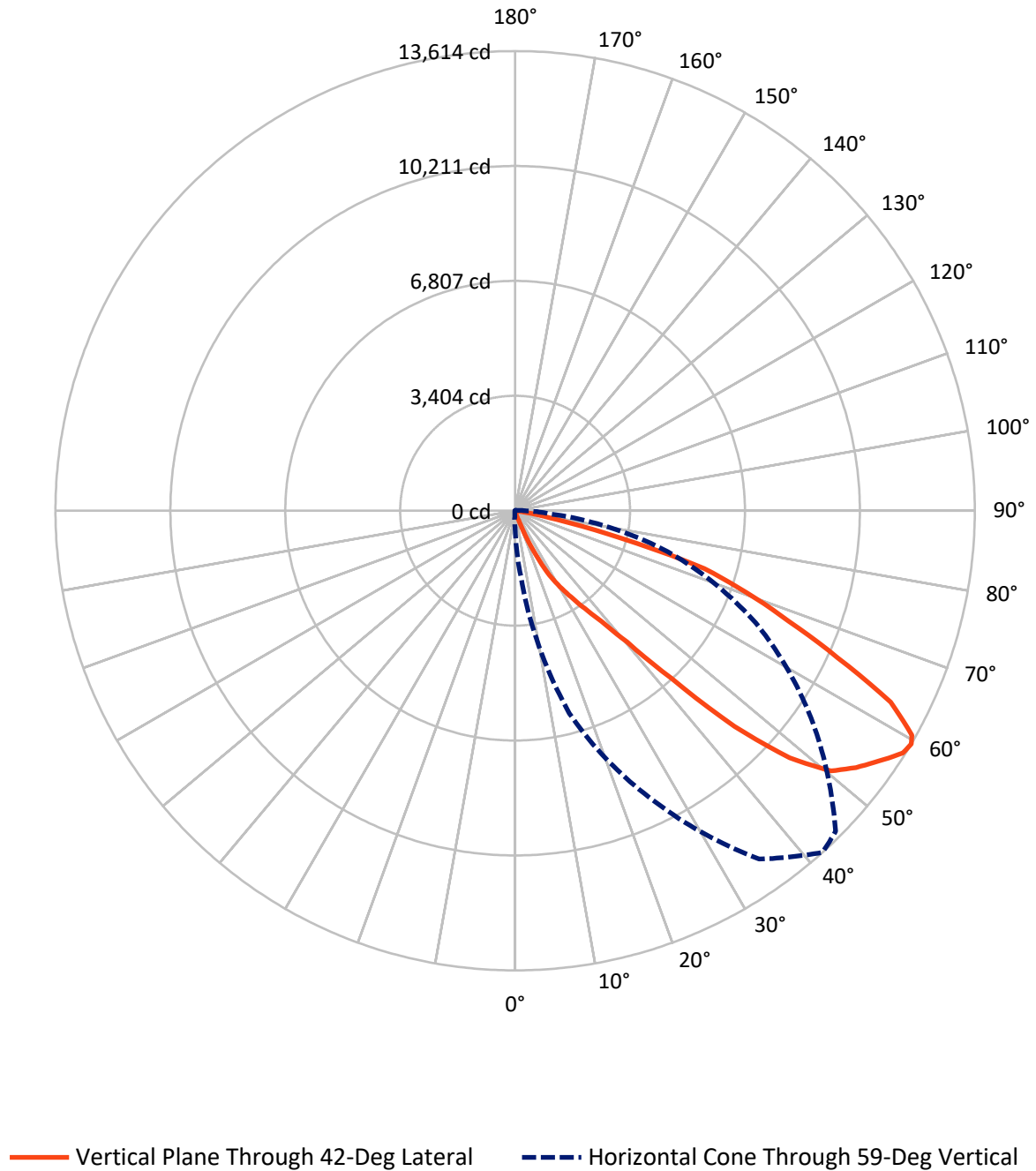


Based on 15 foot mounting height. Maximum calculated value = 14.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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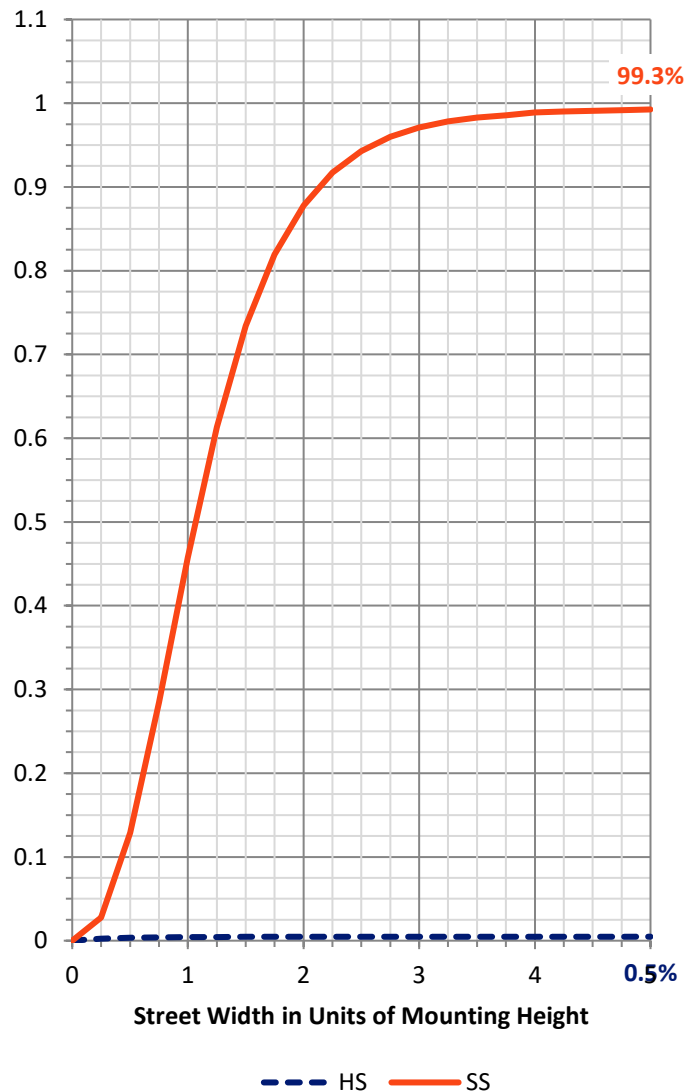
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23.9	0.0	23.9
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	4938.0	0.0	4938.0
	% Fixture	99.5	0.0	99.5
Total	Lumens	4961.9	0.0	4961.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.0
10°-20°	7.2	0.1
20°-30°	92.6	1.9
30°-40°	312.0	6.3
40°-50°	942.5	19.0
50°-60°	1663.7	33.5
60°-70°	1464.9	29.5
70°-80°	466.3	9.4
80°-90°	11.2	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°	4961.9	100.0
0°-180°	4961.9	100.0



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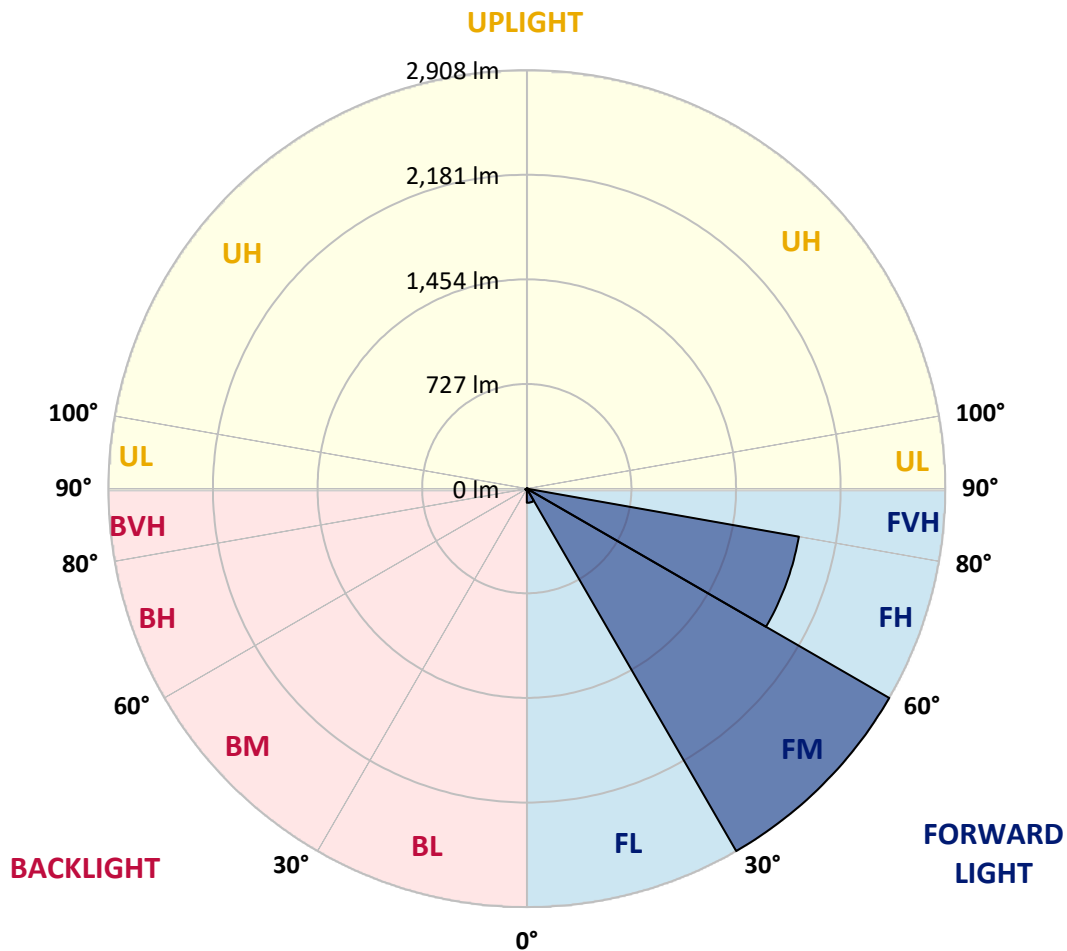
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	98.6	2.0			
FM	(30°-60°)	2908.5	58.6			
FH	(60°-80°)	1920.3	38.7			G2/5000
FVH	(80°-90°)	10.6	0.2			G1/100
BL	(0°-30°)	2.7	0.1	B0/110		
BM	(30°-60°)	9.8	0.2	B0/220		
BH	(60°-80°)	10.9	0.2	B0/110		G0/110
BVH	(80°-90°)	0.5	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°	42°	45°	55°	65°	75°	85°
0°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
2.5°	21.8	21.8	20.2	18.7	17.1	15.6	15.6	15.6	14.0	14.0	12.4
5°	24.9	24.9	23.3	21.8	21.8	20.2	20.2	18.7	17.1	17.1	15.6
7.5°	26.4	26.4	26.4	26.4	24.9	24.9	24.9	23.3	21.8	20.2	18.7
10°	28.0	29.6	31.1	31.1	31.1	31.1	31.1	29.6	26.4	24.9	21.8
12.5°	31.1	32.7	35.8	38.9	38.9	40.4	38.9	37.3	34.2	29.6	24.9
15°	34.2	37.3	42.0	48.2	54.5	56.0	56.0	51.3	45.1	35.8	29.6
17.5°	38.9	43.6	56.0	76.2	98.0	115.1	115.1	102.7	71.6	46.7	34.2
20°	42.0	51.3	90.2	183.6	280.0	351.6	337.6	298.7	160.2	73.1	37.3
22.5°	46.7	65.3	191.4	482.3	746.7	877.4	846.3	642.5	359.4	130.7	45.1
25°	52.9	94.9	379.6	903.9	1387.7	1529.3	1509.0	1199.5	655.0	219.4	57.6
27.5°	65.3	140.0	608.3	1370.6	2047.3	2168.7	2160.9	1756.4	1047.0	353.1	74.7
30°	82.5	203.8	902.3	1862.2	2484.5	2607.4	2568.5	2164.0	1412.6	539.8	96.5
32.5°	102.7	284.7	1168.3	2224.7	2887.4	3049.2	3002.5	2518.7	1706.6	698.5	143.1
35°	133.8	364.0	1431.3	2545.1	3352.6	3557.9	3480.1	2884.3	1960.2	877.4	172.7
37.5°	149.3	410.7	1672.4	2893.6	3875.3	4155.3	4096.2	3346.3	2218.4	1106.1	211.6
40°	150.9	466.7	1922.9	3347.9	4614.2	5113.6	5007.8	4139.8	2699.2	1400.1	272.3
42.5°	155.6	550.7	2248.0	4122.6	6065.7	6782.9	6663.1	5599.0	3789.7	1989.8	385.8
45°	177.4	709.4	2910.7	5571.0	8058.6	9110.3	8971.8	7632.3	5312.8	3099.0	658.1
47.5°	253.6	1067.2	4072.9	7134.5	10096.6	10935.1	10900.9	9234.7	6692.7	4236.2	1115.4
50°	407.6	1638.2	5395.2	8449.1	11394.1	12114.3	12028.8	9903.7	7479.9	5012.5	1429.7
52.5°	544.5	2184.2	6226.0	8932.9	11781.4	12640.2	12535.9	10147.9	7686.8	5241.2	1516.8
55°	578.7	2381.8	6473.3	9082.3	12038.1	13085.1	12934.2	10311.3	7713.2	5077.9	1372.1
57.5°	561.6	2195.1	6313.1	9228.5	12395.9	13542.5	13341.8	10630.2	7801.9	4800.9	1141.9
59°	532.1	1964.9	6213.5	9345.2	12593.5	13614.1	13425.8	10700.2	7861.0	4674.9	1001.9
60°	497.8	1809.3	6135.7	9421.4	12581.1	13502.0	13307.6	10667.5	7884.4	4566.0	935.0
62.5°	384.3	1443.7	6023.7	9367.0	11795.4	12479.9	12369.5	9867.9	7542.1	4217.5	737.4
65°	298.7	1104.6	5613.0	8354.2	10037.5	10498.0	10463.7	8355.7	6347.3	3635.7	532.1
67.5°	236.5	805.9	4746.5	6765.8	8075.7	8730.7	8705.8	6782.9	4818.0	2778.5	382.7
70°	192.9	574.1	3254.6	5101.2	6459.3	7283.9	7248.1	5459.0	3570.4	1762.6	278.5
72.5°	163.4	367.1	1974.2	3845.7	5390.6	5861.9	5757.7	4404.2	2596.5	959.9	220.9
75°	138.5	225.6	978.5	2397.4	3211.0	3207.9	3103.7	2332.0	1393.9	469.8	175.8
77.5°	112.0	158.7	384.3	658.1	1012.8	1253.9	1233.7	826.1	416.9	136.9	108.9
80°	73.1	74.7	102.7	180.5	278.5	308.0	350.0	252.0	121.3	65.3	45.1
82.5°	32.7	35.8	46.7	59.1	59.1	54.5	48.2	35.8	26.4	21.8	10.9
85°	7.8	10.9	7.8	9.3	7.8	6.2	6.2	3.1	0.0	0.0	0.0
87.5°	1.6	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
2.5°	12.4	12.4	12.4	10.9	10.9	10.9	9.3	9.3	9.3	7.8	7.8
5°	15.6	14.0	12.4	12.4	10.9	10.9	9.3	7.8	7.8	7.8	6.2
7.5°	17.1	15.6	14.0	12.4	10.9	9.3	9.3	7.8	6.2	6.2	6.2
10°	20.2	18.7	15.6	12.4	10.9	9.3	7.8	7.8	6.2	4.7	4.7
12.5°	23.3	20.2	17.1	14.0	10.9	9.3	7.8	7.8	6.2	4.7	3.1
15°	26.4	23.3	18.7	14.0	10.9	9.3	7.8	7.8	4.7	3.1	1.6
17.5°	29.6	24.9	18.7	15.6	10.9	9.3	7.8	6.2	3.1	1.6	0.0
20°	31.1	26.4	20.2	15.6	10.9	9.3	7.8	4.7	1.6	0.0	0.0
22.5°	34.2	29.6	21.8	15.6	10.9	7.8	4.7	1.6	0.0	0.0	0.0
25°	40.4	31.1	21.8	15.6	10.9	7.8	3.1	0.0	0.0	0.0	0.0
27.5°	45.1	34.2	21.8	15.6	10.9	6.2	1.6	0.0	0.0	0.0	0.0
30°	52.9	37.3	23.3	15.6	10.9	4.7	1.6	0.0	0.0	0.0	0.0
32.5°	65.3	40.4	23.3	15.6	9.3	4.7	0.0	0.0	0.0	0.0	0.0
35°	79.3	46.7	23.3	15.6	9.3	4.7	0.0	0.0	0.0	0.0	0.0
37.5°	80.9	49.8	23.3	15.6	9.3	3.1	0.0	0.0	0.0	0.0	0.0
40°	84.0	46.7	24.9	15.6	9.3	3.1	0.0	0.0	0.0	0.0	0.0
42.5°	96.5	43.6	26.4	15.6	9.3	3.1	0.0	0.0	0.0	0.0	0.0
45°	143.1	45.1	26.4	17.1	9.3	4.7	0.0	0.0	0.0	0.0	0.0
47.5°	248.9	46.7	24.9	17.1	9.3	4.7	0.0	0.0	0.0	0.0	0.0
50°	318.9	54.5	24.9	18.7	10.9	3.1	0.0	0.0	0.0	0.0	0.0
52.5°	339.1	63.8	24.9	20.2	14.0	1.6	0.0	0.0	0.0	0.0	0.0
55°	329.8	74.7	26.4	21.8	17.1	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	304.9	80.9	28.0	23.3	18.7	0.0	0.0	0.0	0.0	0.0	0.0
59°	278.5	85.6	32.7	24.9	18.7	0.0	0.0	0.0	0.0	0.0	0.0
60°	256.7	90.2	34.2	26.4	18.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	206.9	96.5	37.3	31.1	15.6	0.0	0.0	0.0	0.0	0.0	0.0
65°	180.5	101.1	38.9	34.2	14.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	164.9	104.2	42.0	35.8	12.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	152.5	102.7	45.1	34.2	10.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	138.5	98.0	54.5	31.1	9.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	124.5	88.7	59.1	28.0	6.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	90.2	74.7	54.5	24.9	3.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	38.9	40.4	38.9	18.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.8	9.3	7.8	4.7	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°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
2.5°	7.8	7.8	7.8	7.8	9.3	9.3	12.4	15.6	18.7	20.2	20.2
5°	6.2	6.2	6.2	6.2	6.2	7.8	9.3	12.4	17.1	18.7	18.7
7.5°	4.7	4.7	4.7	4.7	4.7	4.7	7.8	10.9	15.6	17.1	18.7
10°	4.7	3.1	3.1	1.6	1.6	3.1	4.7	9.3	14.0	15.6	17.1
12.5°	3.1	1.6	1.6	0.0	0.0	1.6	3.1	7.8	12.4	14.0	15.6
15°	1.6	0.0	0.0	0.0	0.0	0.0	1.6	6.2	10.9	12.4	15.6
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	9.3	12.4	14.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	7.8	10.9	12.4
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	6.2	9.3	10.9
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	6.2	7.8
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	4.7	6.2
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	4.7	6.2
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.1	4.7
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.1	4.7
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.1	3.1
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.1
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.1
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.1
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.1
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.1
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
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°	318°	325°	335°	345°	355°	360°
0°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
2.5°	21.8	21.8	20.2	18.7	18.7	18.7	20.2	21.8	21.8	21.8
5°	20.2	20.2	18.7	18.7	18.7	18.7	20.2	23.3	24.9	24.9
7.5°	20.2	20.2	18.7	18.7	18.7	18.7	20.2	23.3	24.9	26.4
10°	18.7	18.7	18.7	18.7	17.1	18.7	20.2	23.3	28.0	28.0
12.5°	18.7	18.7	18.7	18.7	17.1	18.7	21.8	24.9	29.6	31.1
15°	18.7	18.7	18.7	17.1	17.1	18.7	21.8	26.4	31.1	34.2
17.5°	17.1	18.7	18.7	17.1	17.1	18.7	21.8	26.4	34.2	38.9
20°	15.6	17.1	18.7	17.1	17.1	17.1	21.8	26.4	35.8	42.0
22.5°	14.0	15.6	17.1	17.1	15.6	17.1	21.8	28.0	38.9	46.7
25°	12.4	14.0	14.0	15.6	15.6	17.1	21.8	28.0	40.4	52.9
27.5°	9.3	10.9	12.4	14.0	14.0	17.1	21.8	29.6	43.6	65.3
30°	7.8	9.3	10.9	12.4	14.0	17.1	21.8	29.6	46.7	82.5
32.5°	7.8	9.3	10.9	12.4	14.0	15.6	21.8	31.1	51.3	102.7
35°	6.2	7.8	9.3	12.4	12.4	15.6	21.8	31.1	56.0	133.8
37.5°	6.2	7.8	9.3	12.4	12.4	15.6	21.8	31.1	68.5	149.3
40°	4.7	6.2	7.8	12.4	12.4	15.6	23.3	32.7	70.0	150.9
42.5°	4.7	6.2	7.8	10.9	12.4	15.6	23.3	32.7	65.3	155.6
45°	4.7	6.2	7.8	12.4	14.0	17.1	23.3	34.2	63.8	177.4
47.5°	4.7	6.2	7.8	12.4	15.6	17.1	23.3	34.2	65.3	253.6
50°	4.7	6.2	7.8	12.4	17.1	17.1	23.3	34.2	71.6	407.6
52.5°	3.1	4.7	6.2	10.9	14.0	18.7	24.9	32.7	76.2	544.5
55°	3.1	3.1	4.7	9.3	12.4	20.2	26.4	32.7	88.7	578.7
57.5°	3.1	3.1	4.7	7.8	10.9	21.8	28.0	32.7	102.7	561.6
59°	3.1	3.1	3.1	7.8	9.3	21.8	28.0	34.2	104.2	532.1
60°	3.1	3.1	3.1	6.2	9.3	21.8	29.6	35.8	105.8	497.8
62.5°	1.6	1.6	1.6	6.2	7.8	21.8	32.7	43.6	108.9	384.3
65°	3.1	3.1	1.6	4.7	7.8	18.7	37.3	46.7	110.5	298.7
67.5°	3.1	3.1	3.1	6.2	7.8	18.7	38.9	48.2	110.5	236.5
70°	3.1	3.1	3.1	6.2	9.3	18.7	38.9	49.8	108.9	192.9
72.5°	3.1	3.1	3.1	6.2	9.3	17.1	35.8	51.3	104.2	163.4
75°	3.1	3.1	3.1	4.7	7.8	15.6	34.2	56.0	94.9	138.5
77.5°	3.1	3.1	3.1	3.1	6.2	12.4	31.1	62.2	84.0	112.0
80°	4.7	3.1	3.1	3.1	4.7	10.9	29.6	60.7	70.0	73.1
82.5°	4.7	3.1	3.1	1.6	3.1	7.8	23.3	46.7	35.8	32.7
85°	3.1	3.1	3.1	1.6	1.6	4.7	10.9	14.0	10.9	7.8
87.5°	3.1	3.1	3.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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: SP1-2407-184-1

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-740-U-5WQ

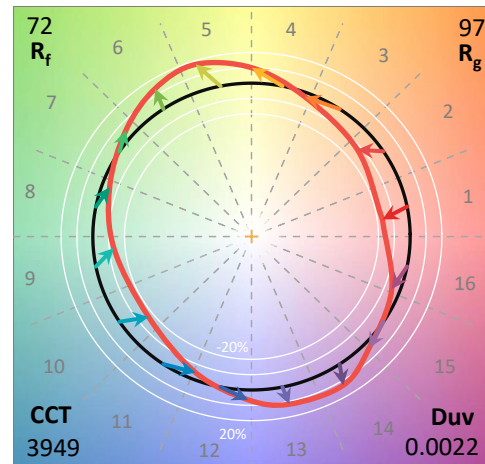
Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-1
 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-740-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3949	CRI (Ra):	70.7		
CIE u':	0.2248	R1:	68.0	R9:	-36.7
CIE v':	0.5053	R2:	76.0	R10:	45.1
Duv:	0.0022	R3:	84.3	R11:	70.7
CIE x:	0.3844	R4:	72.0	R12:	47.1
CIE y:	0.3840	R5:	68.6	R13:	68.5
CIE z:	0.2316	R6:	68.3	R14:	91.1
Peak Wavelength (nm):	440	R7:	77.9	R15:	58.7
Dominant Wavelength (nm):	578	R8:	50.3		
Purity:	30.60026				
Rf:	71.8				
Rg:	96.5				



Test Conditions

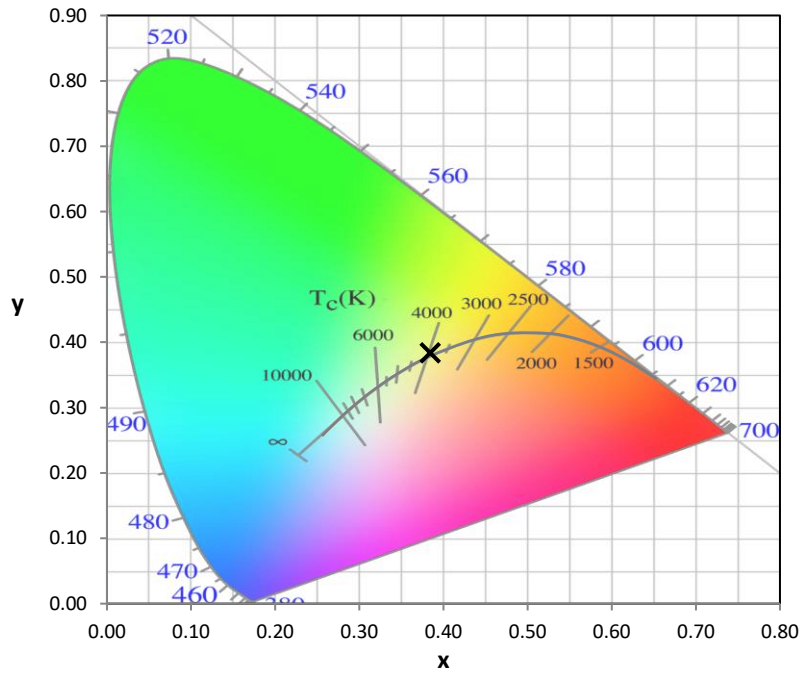
Stabilization Time: 34M
 Operation Time: 1H 34M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-1

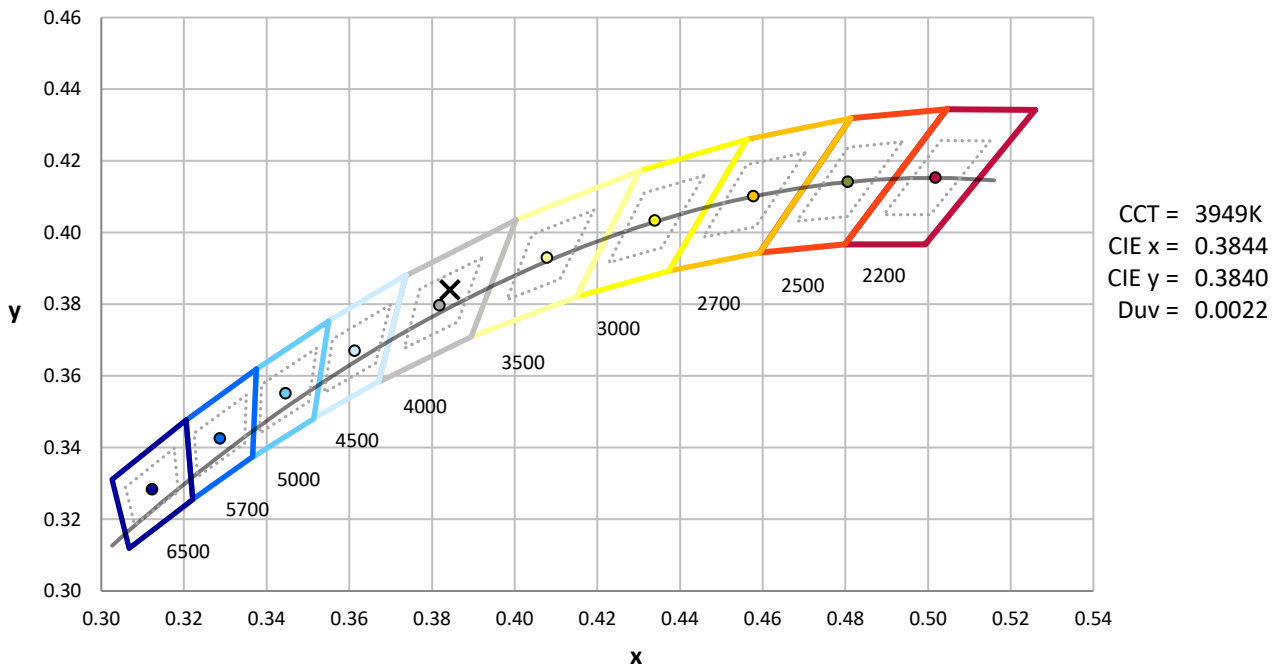
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



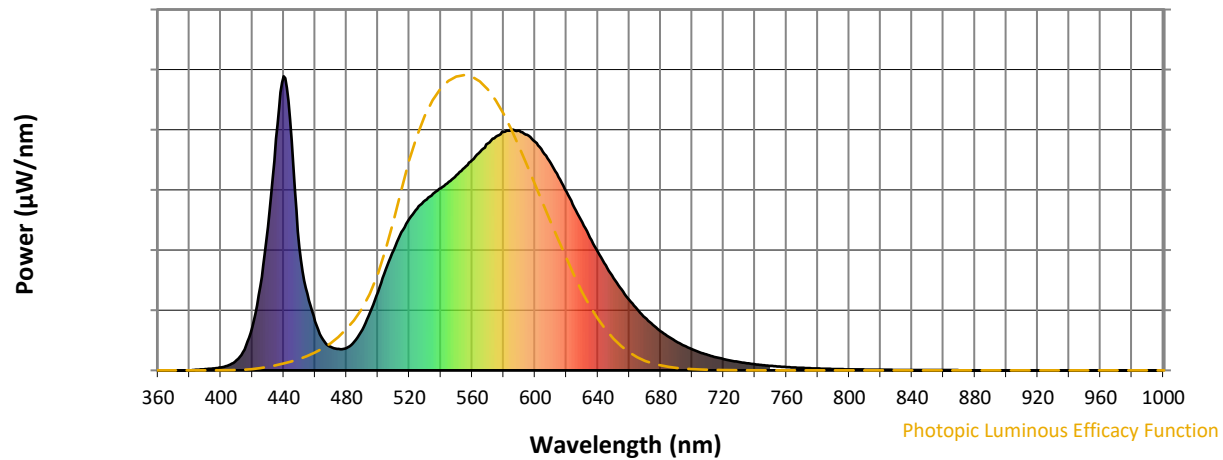
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

Photopic Flux vs. Wavelength

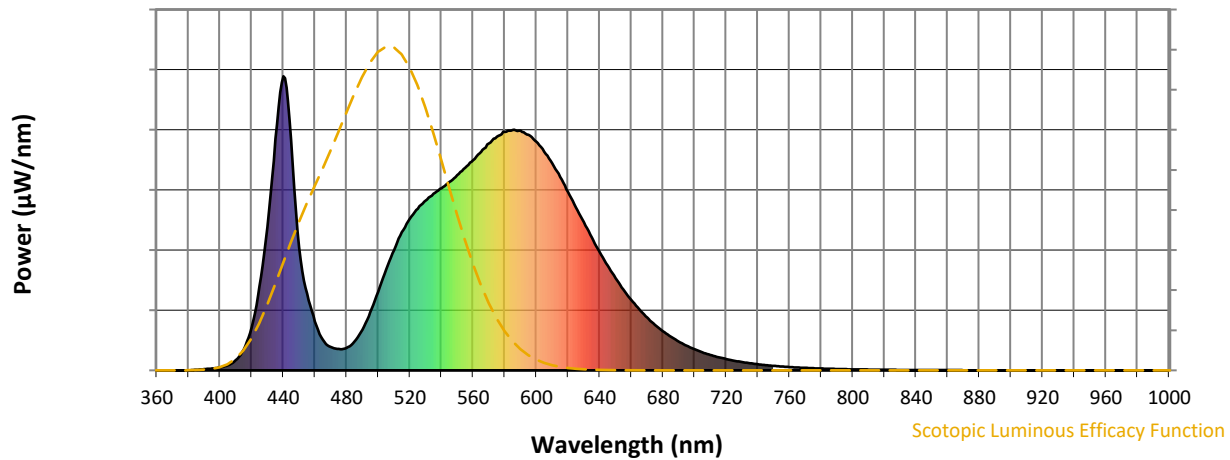


Photopic Lumens: NR

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Scotopic Flux vs. Wavelength



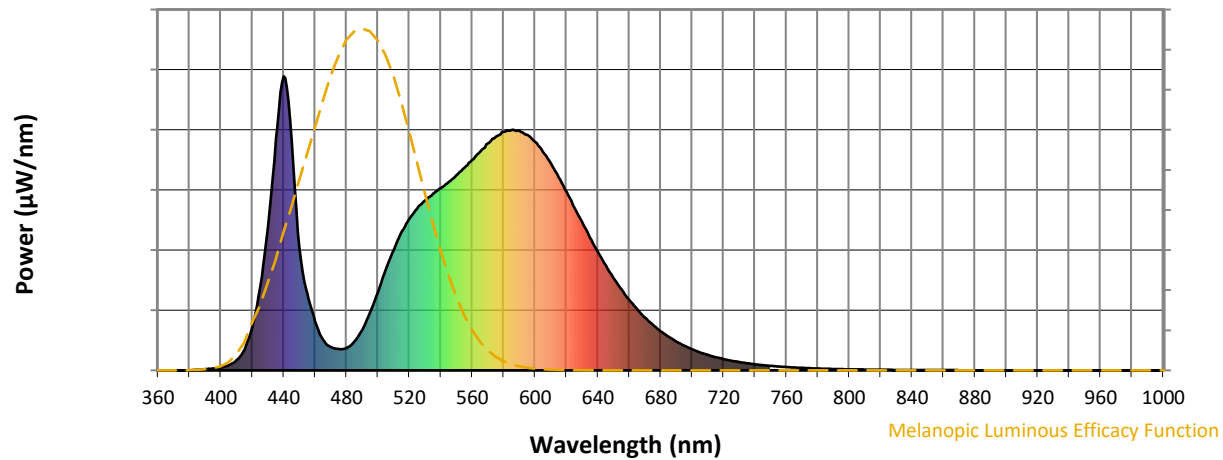
Scotopic Lumens: NR

S/P: 1.47

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.78

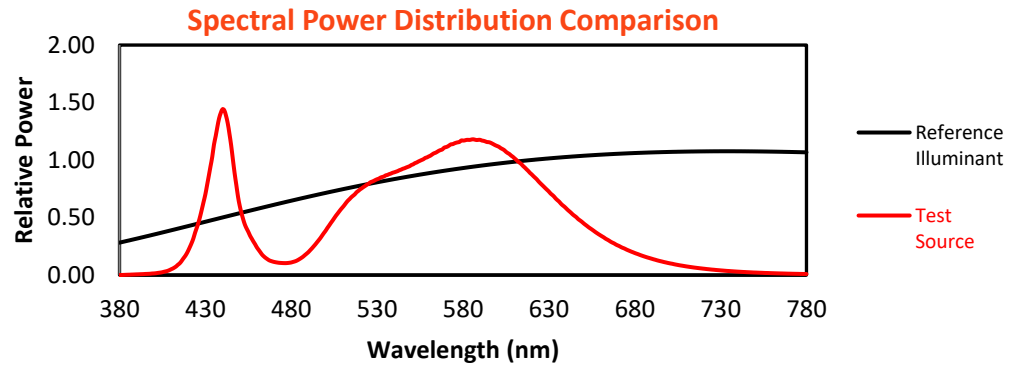
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

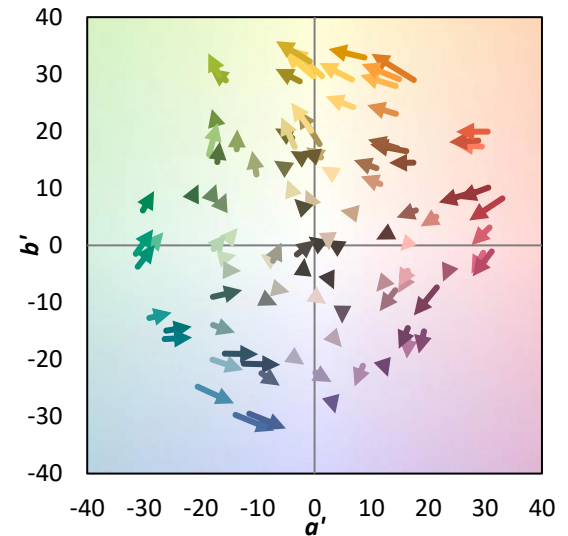
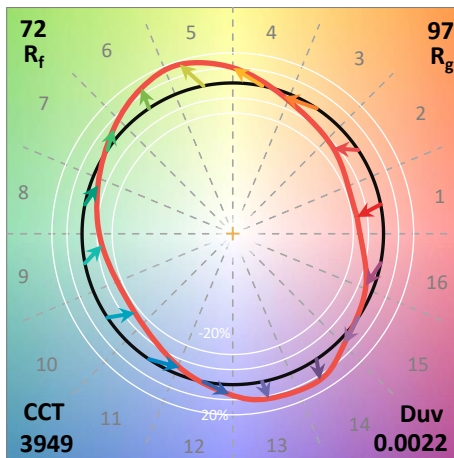
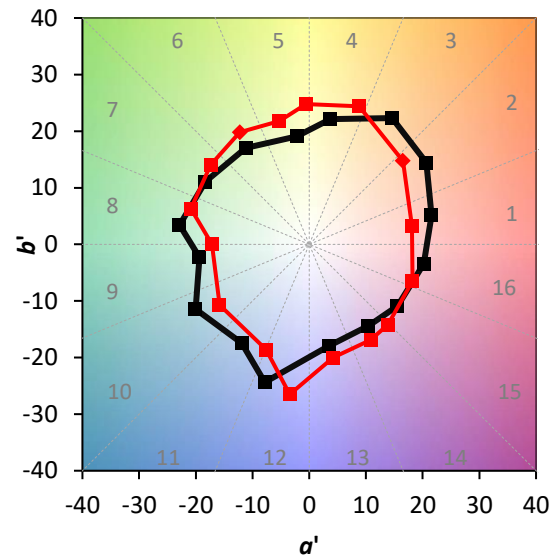
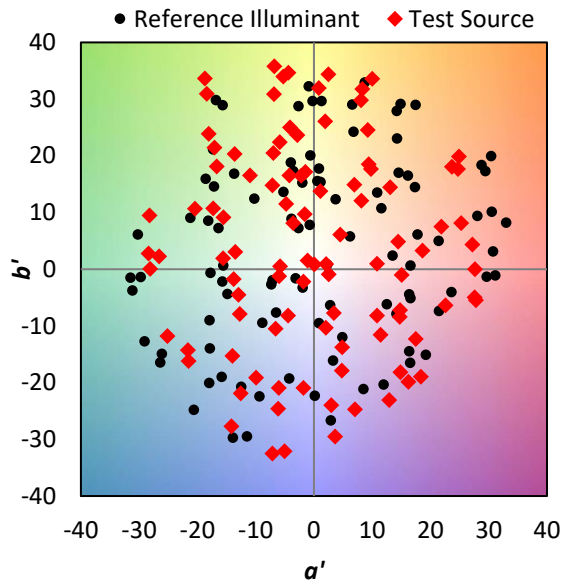
TM-30-18

Summary

$R_f = 71.8$
 $R_g = 96.5$
 CIE $R_a = 70.7$
 $R_g = -36.7$

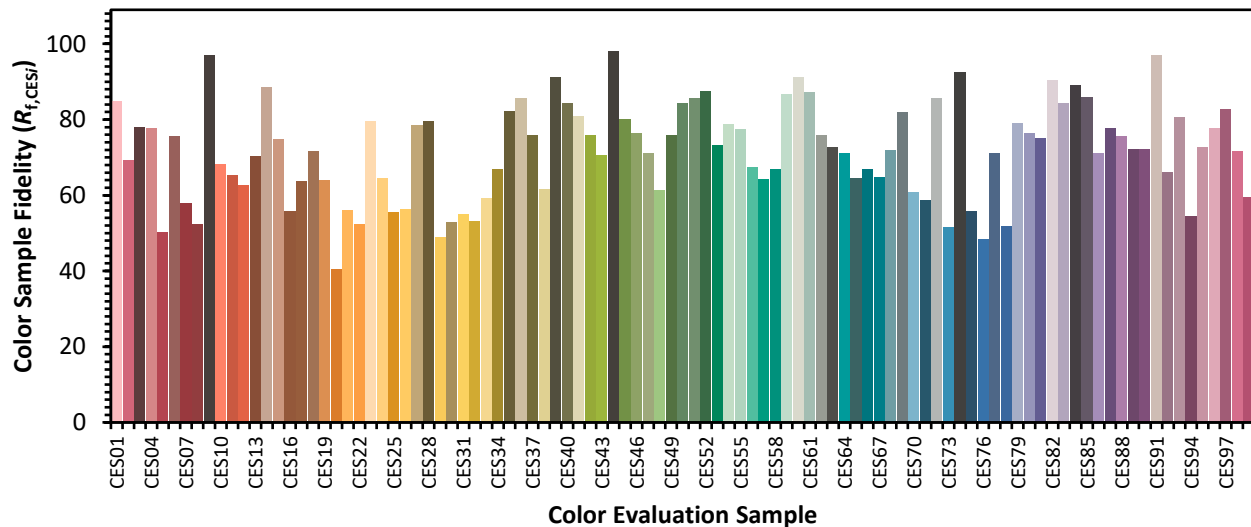


Color Vector Graphics

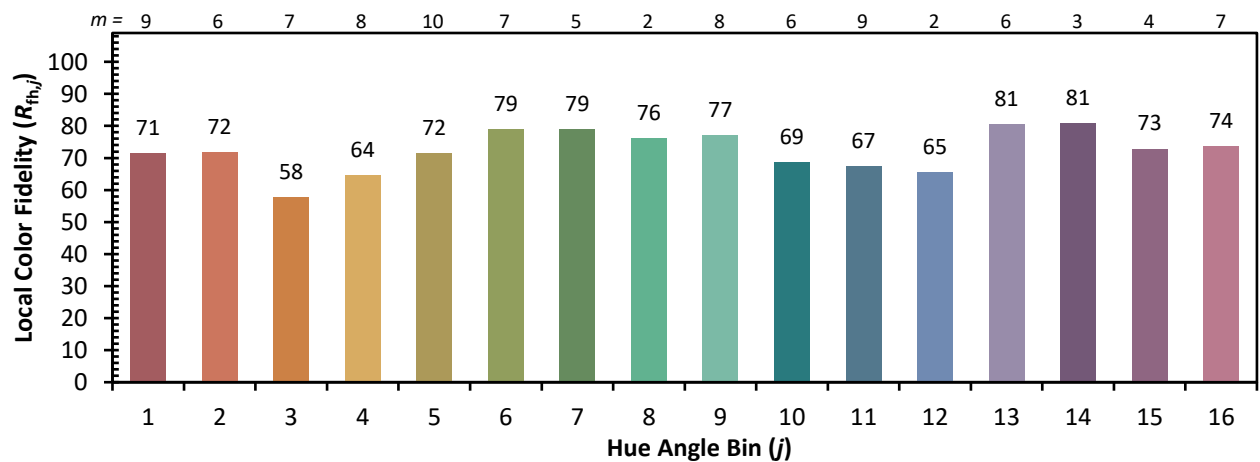
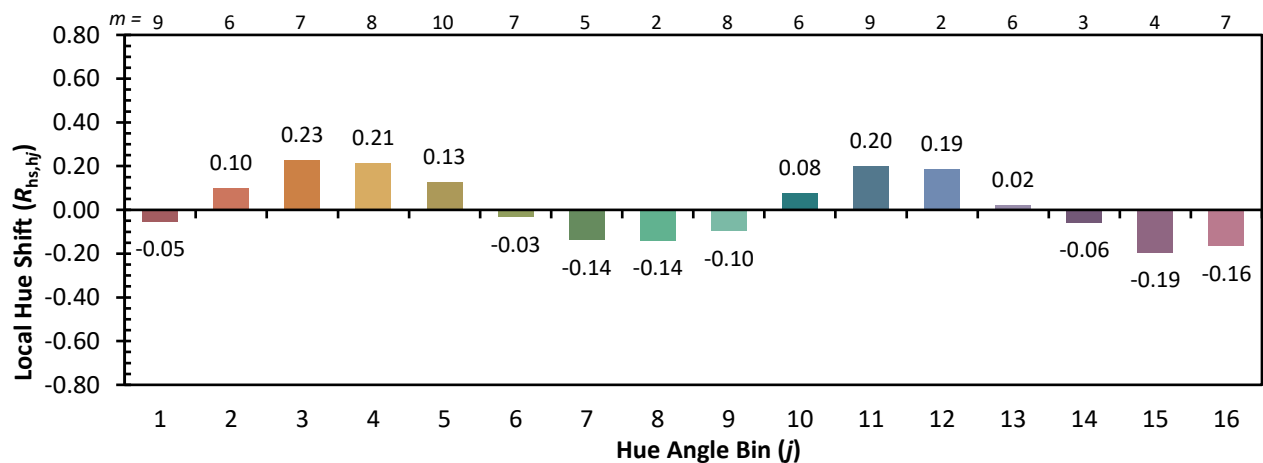
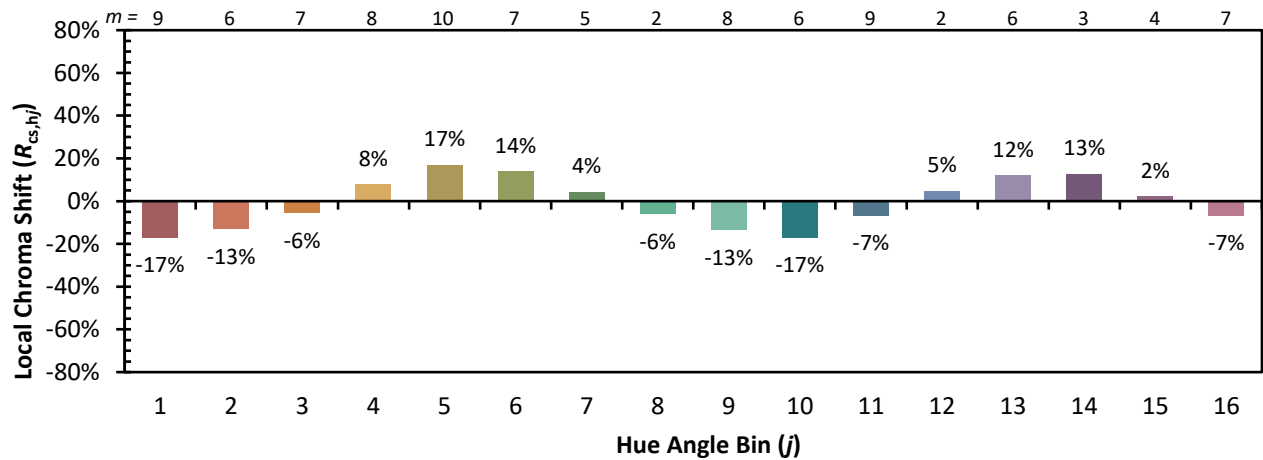


Individual Sample Fidelity Index ($R_{f,i}$)

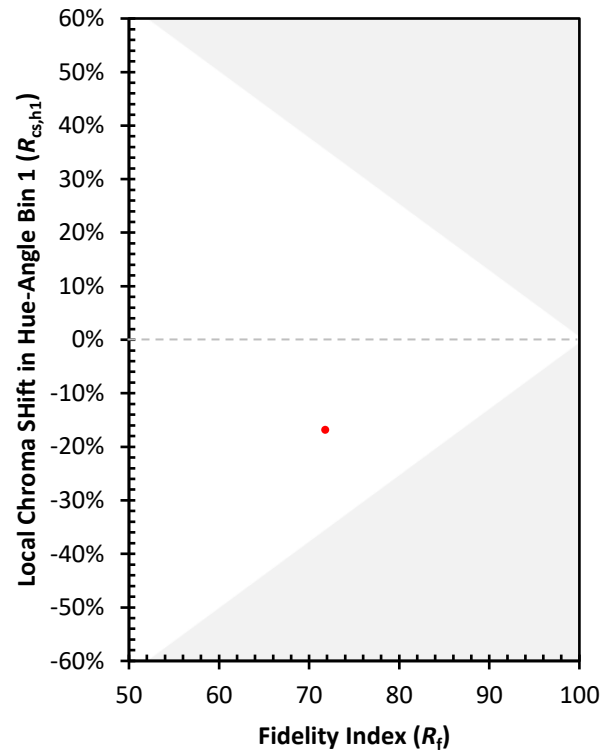
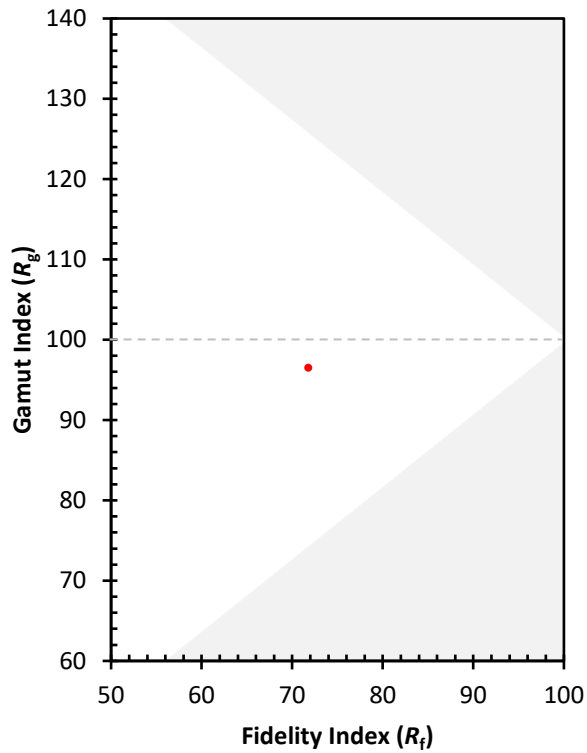
CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82 = 90
CES08 = 39	CES33 = 59	CES58 = 67	CES83 = 84
CES09 = 29	CES34 = 67	CES59 = 87	CES84 = 89
CES10 = 74	CES35 = 82	CES60 = 91	CES85 = 86
CES11 = 57	CES36 = 86	CES61 = 87	CES86 = 71
CES12 = 63	CES37 = 76	CES62 = 76	CES87 = 78
CES13 = 42	CES38 = 62	CES63 = 73	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 71	CES89 = 72
CES15 = 71	CES40 = 84	CES65 = 64	CES90 = 72
CES16 = 46	CES41 = 81	CES66 = 67	CES91 = 97
CES17 = 49	CES42 = 76	CES67 = 65	CES92 = 66
CES18 = 56	CES43 = 71	CES68 = 72	CES93 = 81
CES19 = 72	CES44 = 98	CES69 = 82	CES94 = 55
CES20 = 65	CES45 = 80	CES70 = 61	CES95 = 73
CES21 = 86	CES46 = 76	CES71 = 59	CES96 = 78
CES22 = 78	CES47 = 71	CES72 = 86	CES97 = 83
CES23 = 92	CES48 = 61	CES73 = 52	CES98 = 72
CES24 = 91	CES49 = 76	CES74 = 93	CES99 = 60
CES25 = 72	CES50 = 84	CES75 = 56	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)