

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: P1067885

Luminaire Tested: **NAV-SA5A-740-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067885
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA5A-740-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 5xLight Square PACKAGE
70CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15318.2 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 137.4
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



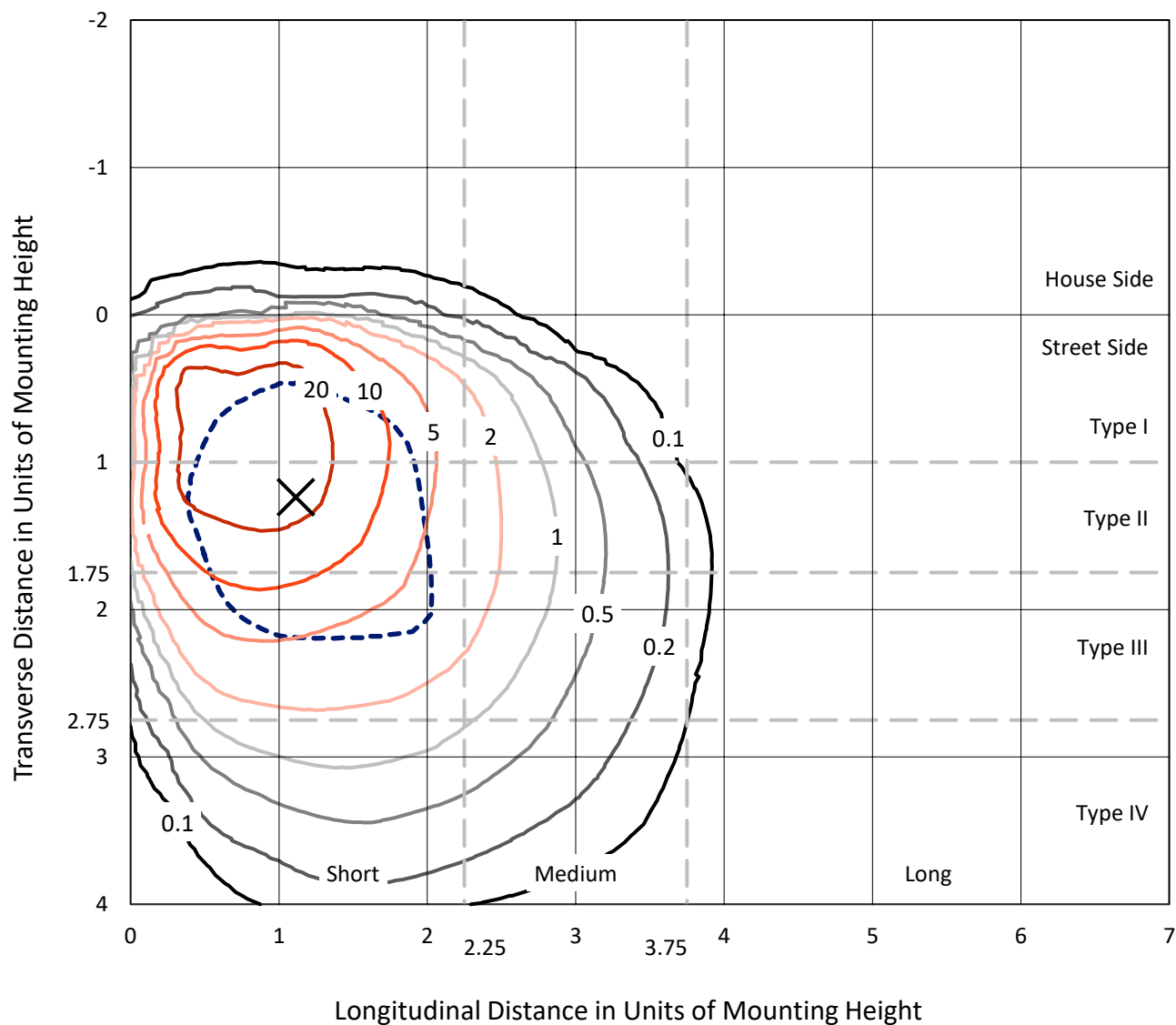
REPORT NUMBER: P1067885

CATALOG NUMBER: NAV-SA5A-740-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

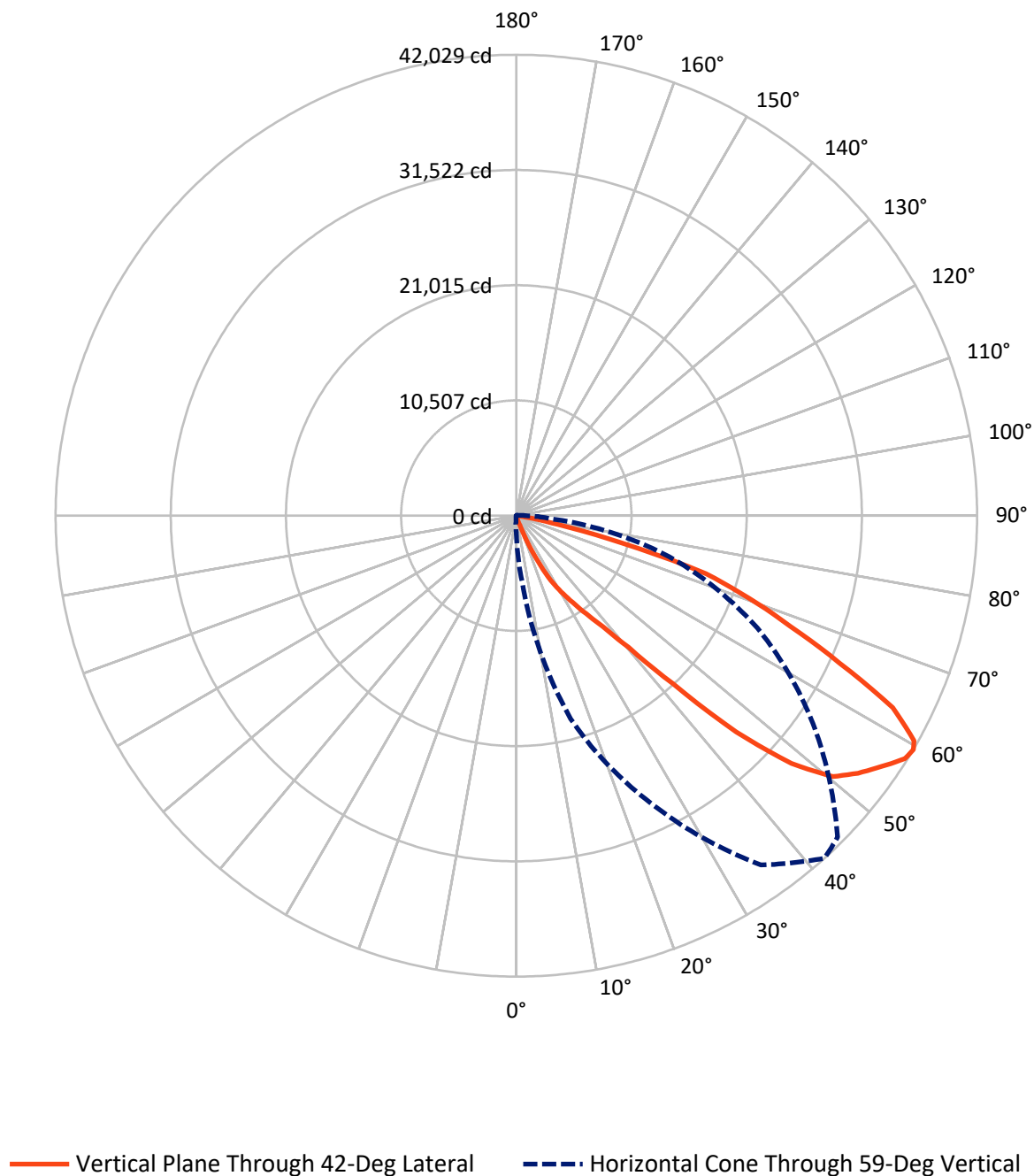


Based on 15 foot mounting height. Maximum calculated value = 45.5 fc
 Type III - Short - N/A

REPORT NUMBER: P1067885

CATALOG NUMBER: NAV-SA5A-740-U-LBC

Luminous Intensity Polar Plot



REPORT NUMBER: P1067885

CATALOG NUMBER: NAV-SA5A-740-U-LBC

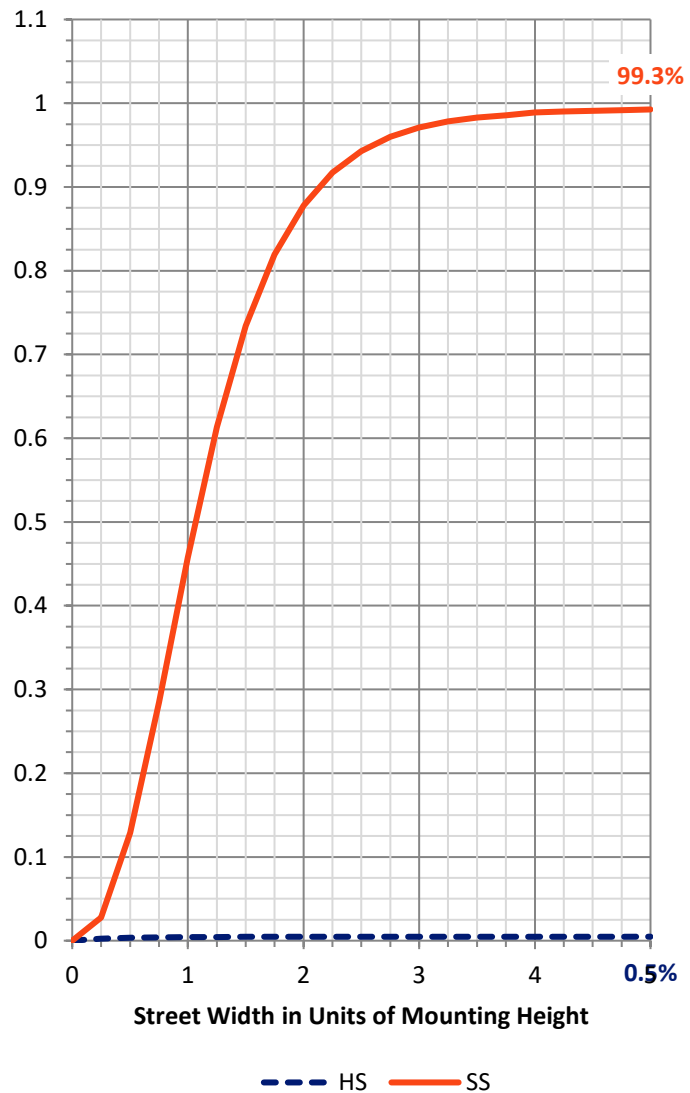
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	73.8	0.0	73.8
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	15244.4	0.0	15244.4
	% Fixture	99.5	0.0	99.5
Total	Lumens	15318.2	0.0	15318.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.5	0.0
10°-20°	22.3	0.1
20°-30°	285.7	1.9
30°-40°	963.3	6.3
40°-50°	2909.6	19.0
50°-60°	5136.2	33.5
60°-70°	4522.5	29.5
70°-80°	1439.5	9.4
80°-90°	34.4	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°	15318.2	100.0
0°-180°	15318.2	100.0



REPORT NUMBER: P1067885

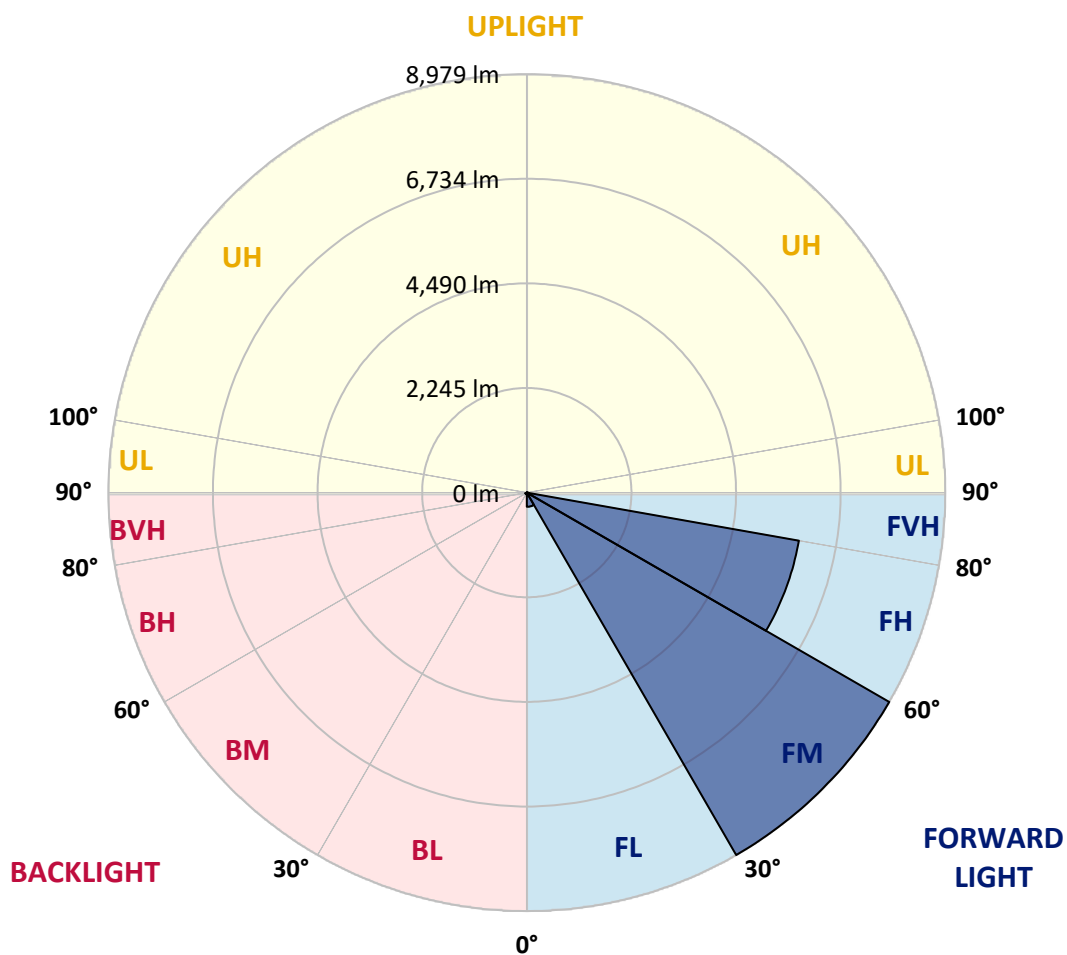
CATALOG NUMBER: NAV-SA5A-740-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	304.3	2.0			
FM	(30°-60°)	8979.0	58.6			
FH	(60°-80°)	5928.3	38.7			G3/7500
FVH	(80°-90°)	32.8	0.2			G1/100
BL	(0°-30°)	8.2	0.1	B0/110		
BM	(30°-60°)	30.1	0.2	B0/220		
BH	(60°-80°)	33.8	0.2	B0/110		G0/110
BVH	(80°-90°)	1.7	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-G3

Type III Short



REPORT NUMBER: P1067885

CATALOG NUMBER: NAV-SA5A-740-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
2.5°	67.2	67.2	62.4	57.6	52.8	48.0	48.0	48.0	43.2	43.2	38.4
5°	76.8	76.8	72.0	67.2	67.2	62.4	62.4	57.6	52.8	52.8	48.0
7.5°	81.6	81.6	81.6	81.6	76.8	76.8	76.8	72.0	67.2	62.4	57.6
10°	86.4	91.3	96.1	96.1	96.1	96.1	96.1	91.3	81.6	76.8	67.2
12.5°	96.1	100.9	110.5	120.1	120.1	124.9	120.1	115.3	105.7	91.3	76.8
15°	105.7	115.3	129.7	148.9	168.1	172.9	172.9	158.5	139.3	110.5	91.3
17.5°	120.1	134.5	172.9	235.3	302.6	355.4	355.4	317.0	220.9	144.1	105.7
20°	129.7	158.5	278.6	566.7	864.5	1085.4	1042.2	922.1	494.7	225.7	115.3
22.5°	144.1	201.7	590.7	1488.9	2305.3	2708.8	2612.7	1983.5	1109.4	403.4	139.3
25°	163.3	293.0	1171.9	2790.4	4284.1	4721.1	4658.7	3702.9	2022.0	677.2	177.7
27.5°	201.7	432.2	1877.9	4231.2	6320.4	6695.1	6671.1	5422.3	3232.3	1090.2	230.5
30°	254.5	629.2	2785.6	5748.9	7670.0	8049.4	7929.4	6680.7	4360.9	1666.6	297.8
32.5°	317.0	878.9	3606.9	6868.0	8913.9	9413.4	9269.4	7775.7	5268.6	2156.4	441.9
35°	413.0	1123.8	4418.6	7857.3	10350.0	10983.9	10743.8	8904.3	6051.5	2708.8	533.1
37.5°	461.1	1267.9	5163.0	8933.2	11963.7	12828.2	12645.7	10330.8	6848.8	3414.8	653.2
40°	465.9	1440.8	5936.2	10335.6	14245.0	15786.7	15460.1	12780.2	8332.8	4322.5	840.5
42.5°	480.3	1700.2	6940.0	12727.3	18726.0	20940.1	20570.3	17285.2	11699.6	6142.7	1191.1
45°	547.5	2190.1	8986.0	17198.7	24878.4	28125.0	27697.6	23562.4	16401.5	9567.1	2031.6
47.5°	782.9	3294.7	12573.7	22025.5	31170.0	33758.7	33653.0	28509.3	20661.5	13077.9	3443.6
50°	1258.3	5057.3	16656.0	26083.9	35175.5	37399.2	37135.0	30574.4	23091.7	15474.5	4413.7
52.5°	1681.0	6743.1	19220.7	27577.5	36371.4	39022.5	38700.7	31328.5	23730.5	16180.5	4682.7
55°	1786.6	7353.0	19984.3	28038.6	37163.8	40396.1	39930.2	31832.8	23812.1	15676.2	4236.0
57.5°	1733.8	6776.7	19489.6	28490.0	38268.5	41808.1	41188.6	32817.3	24085.9	14821.4	3525.2
59°	1642.5	6065.9	19182.3	28850.3	38878.4	42029.1	41447.9	33033.5	24268.4	14432.3	3093.0
60°	1536.9	5585.6	18942.1	29085.6	38840.0	41683.3	41082.9	32932.6	24340.4	14096.1	2886.5
62.5°	1186.3	4457.0	18596.3	28917.5	36414.6	38527.8	38186.8	30464.0	23283.8	13020.3	2276.5
65°	922.1	3410.0	17328.4	25790.9	30987.5	32409.1	32303.4	25795.7	19595.3	11224.1	1642.5
67.5°	730.0	2487.8	14653.3	20887.3	24931.2	26953.2	26876.3	20940.1	14874.2	8577.8	1181.5
70°	595.5	1772.2	10047.4	15748.3	19941.1	22486.6	22376.1	16852.9	11022.4	5441.5	859.7
72.5°	504.3	1133.5	6094.7	11872.5	16641.6	18096.8	17775.1	13596.6	8015.8	2963.3	682.0
75°	427.4	696.4	3020.9	7401.1	9912.9	9903.3	9581.5	7199.4	4303.3	1450.4	542.7
77.5°	345.8	489.9	1186.3	2031.6	3126.6	3871.0	3808.6	2550.3	1287.1	422.6	336.2
80°	225.7	230.5	317.0	557.1	859.7	950.9	1080.6	778.0	374.6	201.7	139.3
82.5°	100.9	110.5	144.1	182.5	182.5	168.1	148.9	110.5	81.6	67.2	33.6
85°	24.0	33.6	24.0	28.8	24.0	19.2	19.2	9.6	0.0	0.0	0.0
87.5°	4.8	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: P1067885

CATALOG NUMBER: NAV-SA5A-740-U-LBC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
2.5°	38.4	38.4	38.4	33.6	33.6	33.6	28.8	28.8	28.8	24.0	24.0
5°	48.0	43.2	38.4	38.4	33.6	33.6	28.8	24.0	24.0	24.0	19.2
7.5°	52.8	48.0	43.2	38.4	33.6	28.8	28.8	24.0	19.2	19.2	19.2
10°	62.4	57.6	48.0	38.4	33.6	28.8	24.0	24.0	19.2	14.4	14.4
12.5°	72.0	62.4	52.8	43.2	33.6	28.8	24.0	24.0	19.2	14.4	9.6
15°	81.6	72.0	57.6	43.2	33.6	28.8	24.0	24.0	14.4	9.6	4.8
17.5°	91.3	76.8	57.6	48.0	33.6	28.8	24.0	19.2	9.6	4.8	0.0
20°	96.1	81.6	62.4	48.0	33.6	28.8	24.0	14.4	4.8	0.0	0.0
22.5°	105.7	91.3	67.2	48.0	33.6	24.0	14.4	4.8	0.0	0.0	0.0
25°	124.9	96.1	67.2	48.0	33.6	24.0	9.6	0.0	0.0	0.0	0.0
27.5°	139.3	105.7	67.2	48.0	33.6	19.2	4.8	0.0	0.0	0.0	0.0
30°	163.3	115.3	72.0	48.0	33.6	14.4	4.8	0.0	0.0	0.0	0.0
32.5°	201.7	124.9	72.0	48.0	28.8	14.4	0.0	0.0	0.0	0.0	0.0
35°	244.9	144.1	72.0	48.0	28.8	14.4	0.0	0.0	0.0	0.0	0.0
37.5°	249.7	153.7	72.0	48.0	28.8	9.6	0.0	0.0	0.0	0.0	0.0
40°	259.3	144.1	76.8	48.0	28.8	9.6	0.0	0.0	0.0	0.0	0.0
42.5°	297.8	134.5	81.6	48.0	28.8	9.6	0.0	0.0	0.0	0.0	0.0
45°	441.9	139.3	81.6	52.8	28.8	14.4	0.0	0.0	0.0	0.0	0.0
47.5°	768.4	144.1	76.8	52.8	28.8	14.4	0.0	0.0	0.0	0.0	0.0
50°	984.6	168.1	76.8	57.6	33.6	9.6	0.0	0.0	0.0	0.0	0.0
52.5°	1047.0	196.9	76.8	62.4	43.2	4.8	0.0	0.0	0.0	0.0	0.0
55°	1018.2	230.5	81.6	67.2	52.8	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	941.3	249.7	86.4	72.0	57.6	0.0	0.0	0.0	0.0	0.0	0.0
59°	859.7	264.2	100.9	76.8	57.6	0.0	0.0	0.0	0.0	0.0	0.0
60°	792.5	278.6	105.7	81.6	57.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	638.8	297.8	115.3	96.1	48.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	557.1	312.2	120.1	105.7	43.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	509.1	321.8	129.7	110.5	38.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	470.7	317.0	139.3	105.7	33.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	427.4	302.6	168.1	96.1	28.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	384.2	273.8	182.5	86.4	19.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	278.6	230.5	168.1	76.8	9.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	120.1	124.9	120.1	57.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	24.0	28.8	24.0	14.4	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: P1067885

CATALOG NUMBER: NAV-SA5A-740-U-LBC

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
2.5°	24.0	24.0	24.0	24.0	28.8	28.8	38.4	48.0	57.6	62.4	62.4
5°	19.2	19.2	19.2	19.2	19.2	24.0	28.8	38.4	52.8	57.6	57.6
7.5°	14.4	14.4	14.4	14.4	14.4	14.4	24.0	33.6	48.0	52.8	57.6
10°	14.4	9.6	9.6	4.8	4.8	9.6	14.4	28.8	43.2	48.0	52.8
12.5°	9.6	4.8	4.8	0.0	0.0	4.8	9.6	24.0	38.4	43.2	48.0
15°	4.8	0.0	0.0	0.0	0.0	0.0	4.8	19.2	33.6	38.4	48.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.4	28.8	38.4	43.2
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	24.0	33.6	38.4
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	19.2	28.8	33.6
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.4	19.2	24.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	14.4	19.2
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	14.4	19.2
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.6	14.4
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.6	14.4
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.6	9.6
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.6
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.6
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.6
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.6
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.6
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8
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: P1067885

CATALOG NUMBER: NAV-SA5A-740-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	318°	325°	335°	345°	355°	360°
0°	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
2.5°	67.2	67.2	62.4	57.6	57.6	57.6	62.4	67.2	67.2	67.2
5°	62.4	62.4	57.6	57.6	57.6	57.6	62.4	72.0	76.8	76.8
7.5°	62.4	62.4	57.6	57.6	57.6	57.6	62.4	72.0	76.8	81.6
10°	57.6	57.6	57.6	57.6	52.8	57.6	62.4	72.0	86.4	86.4
12.5°	57.6	57.6	57.6	57.6	52.8	57.6	67.2	76.8	91.3	96.1
15°	57.6	57.6	57.6	52.8	52.8	57.6	67.2	81.6	96.1	105.7
17.5°	52.8	57.6	57.6	52.8	52.8	57.6	67.2	81.6	105.7	120.1
20°	48.0	52.8	57.6	52.8	52.8	52.8	67.2	81.6	110.5	129.7
22.5°	43.2	48.0	52.8	52.8	48.0	52.8	67.2	86.4	120.1	144.1
25°	38.4	43.2	43.2	48.0	48.0	52.8	67.2	86.4	124.9	163.3
27.5°	28.8	33.6	38.4	43.2	43.2	52.8	67.2	91.3	134.5	201.7
30°	24.0	28.8	33.6	38.4	43.2	52.8	67.2	91.3	144.1	254.5
32.5°	24.0	28.8	33.6	38.4	43.2	48.0	67.2	96.1	158.5	317.0
35°	19.2	24.0	28.8	38.4	38.4	48.0	67.2	96.1	172.9	413.0
37.5°	19.2	24.0	28.8	38.4	38.4	48.0	67.2	96.1	211.3	461.1
40°	14.4	19.2	24.0	38.4	38.4	48.0	72.0	100.9	216.1	465.9
42.5°	14.4	19.2	24.0	33.6	38.4	48.0	72.0	100.9	201.7	480.3
45°	14.4	19.2	24.0	38.4	43.2	52.8	72.0	105.7	196.9	547.5
47.5°	14.4	19.2	24.0	38.4	48.0	52.8	72.0	105.7	201.7	782.9
50°	14.4	19.2	24.0	38.4	52.8	52.8	72.0	105.7	220.9	1258.3
52.5°	9.6	14.4	19.2	33.6	43.2	57.6	76.8	100.9	235.3	1681.0
55°	9.6	9.6	14.4	28.8	38.4	62.4	81.6	100.9	273.8	1786.6
57.5°	9.6	9.6	14.4	24.0	33.6	67.2	86.4	100.9	317.0	1733.8
59°	9.6	9.6	9.6	24.0	28.8	67.2	86.4	105.7	321.8	1642.5
60°	9.6	9.6	9.6	19.2	28.8	67.2	91.3	110.5	326.6	1536.9
62.5°	4.8	4.8	4.8	19.2	24.0	67.2	100.9	134.5	336.2	1186.3
65°	9.6	9.6	4.8	14.4	24.0	57.6	115.3	144.1	341.0	922.1
67.5°	9.6	9.6	9.6	19.2	24.0	57.6	120.1	148.9	341.0	730.0
70°	9.6	9.6	9.6	19.2	28.8	57.6	120.1	153.7	336.2	595.5
72.5°	9.6	9.6	9.6	19.2	28.8	52.8	110.5	158.5	321.8	504.3
75°	9.6	9.6	9.6	14.4	24.0	48.0	105.7	172.9	293.0	427.4
77.5°	9.6	9.6	9.6	9.6	19.2	38.4	96.1	192.1	259.3	345.8
80°	14.4	9.6	9.6	9.6	14.4	33.6	91.3	187.3	216.1	225.7
82.5°	14.4	9.6	9.6	4.8	9.6	24.0	72.0	144.1	110.5	100.9
85°	9.6	9.6	9.6	4.8	4.8	14.4	33.6	43.2	33.6	24.0
87.5°	9.6	9.6	9.6	4.8	4.8	4.8	4.8	4.8	4.8	4.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-1

Test Date: 10/09/2024

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

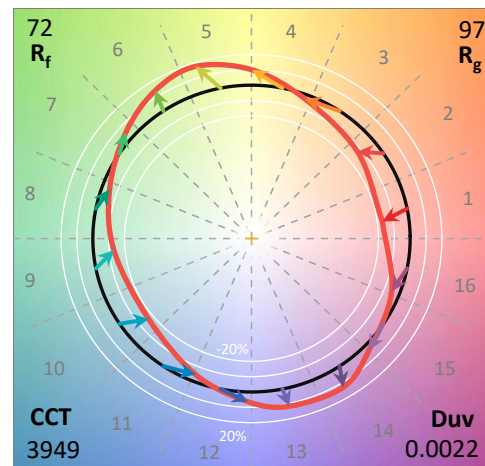
Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

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

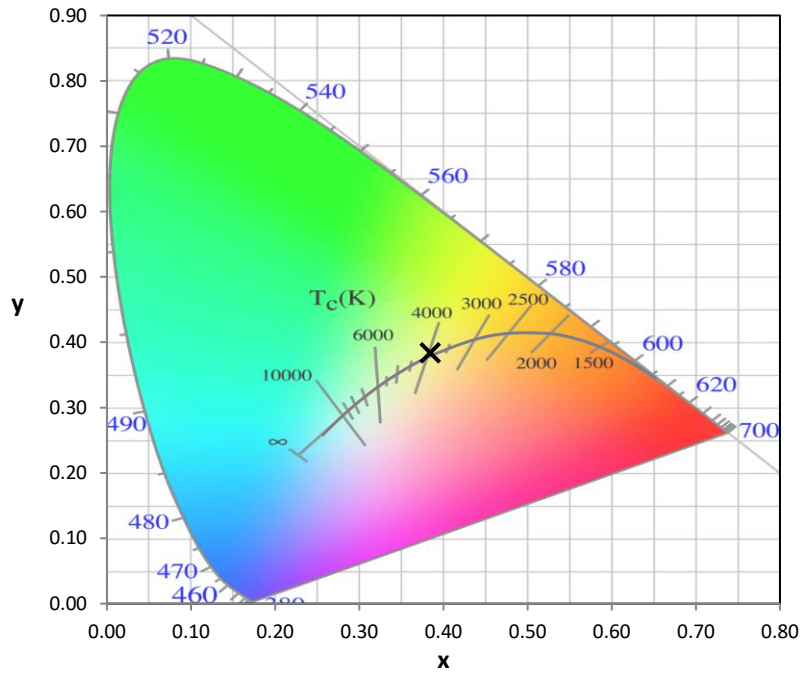
Stabilization Time: 34M
 Operation Time: 1H 34M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-1

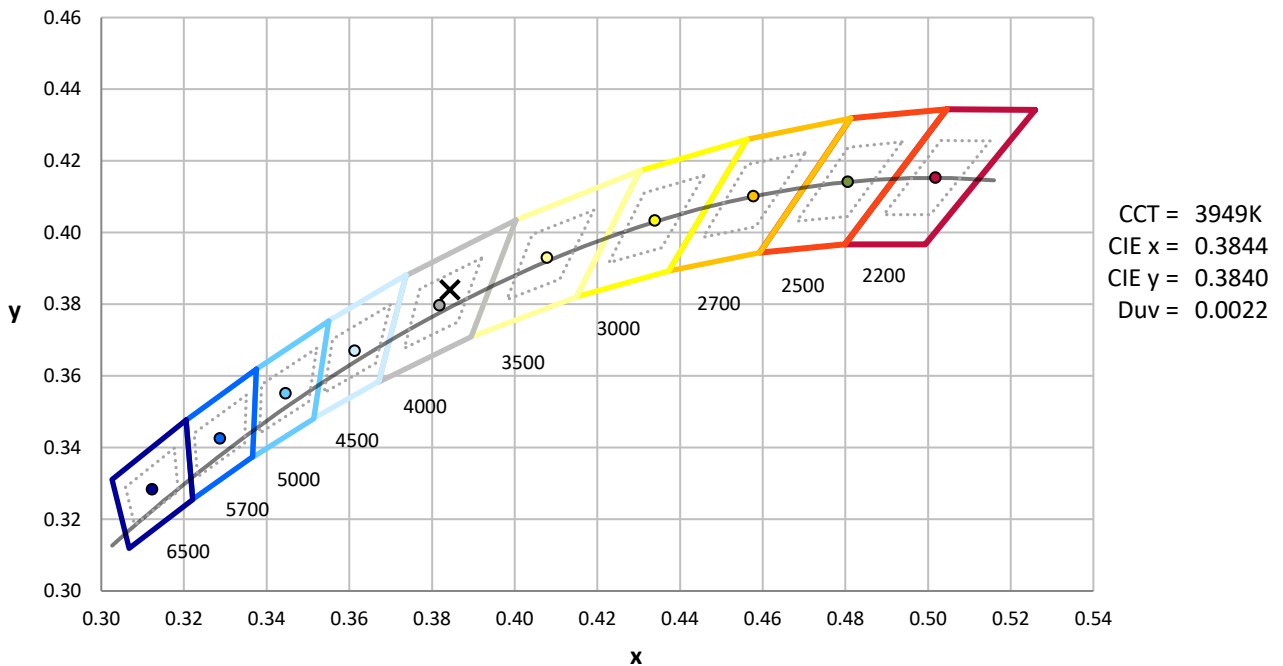
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-1

CIE 1931 Chromaticity Diagram



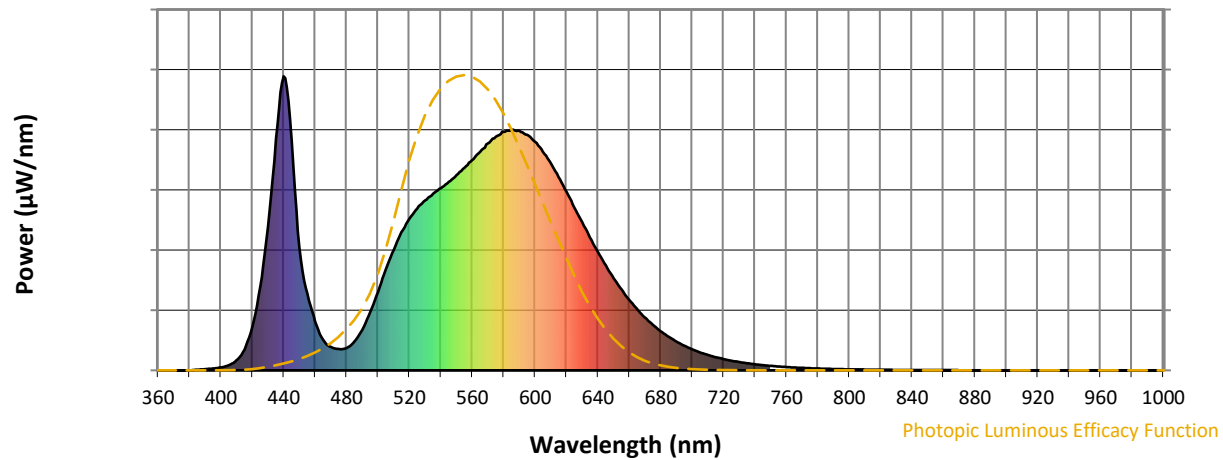
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

Photopic Flux vs. Wavelength

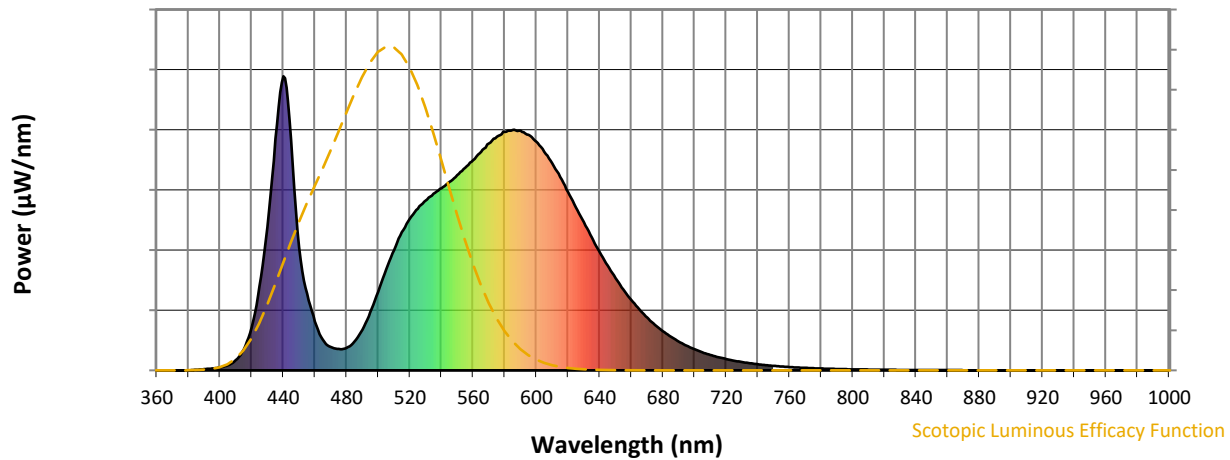


Photopic Lumens: NR

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



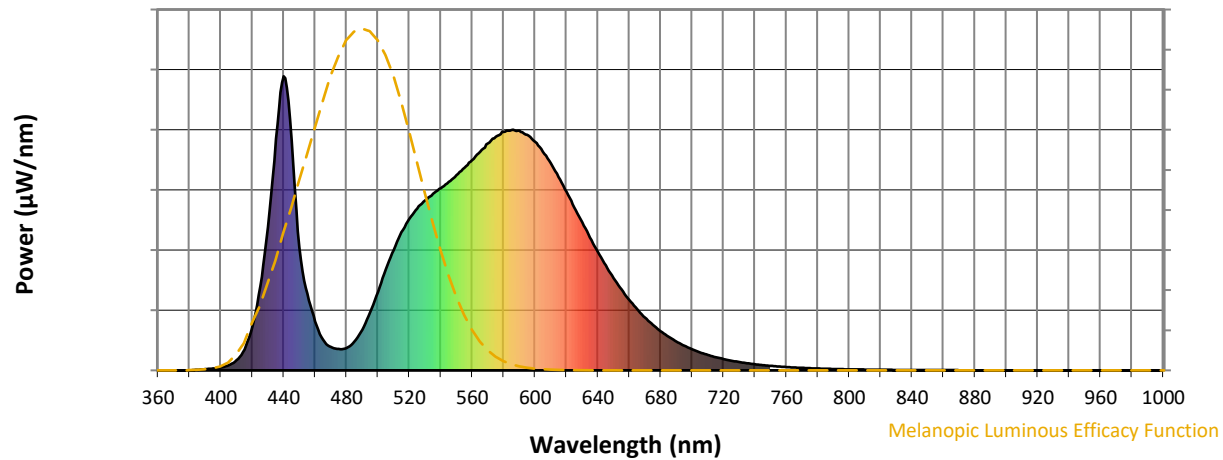
Scotopic Lumens: NR

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			

REPORT NUMBER: SP1-2407-184-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.78

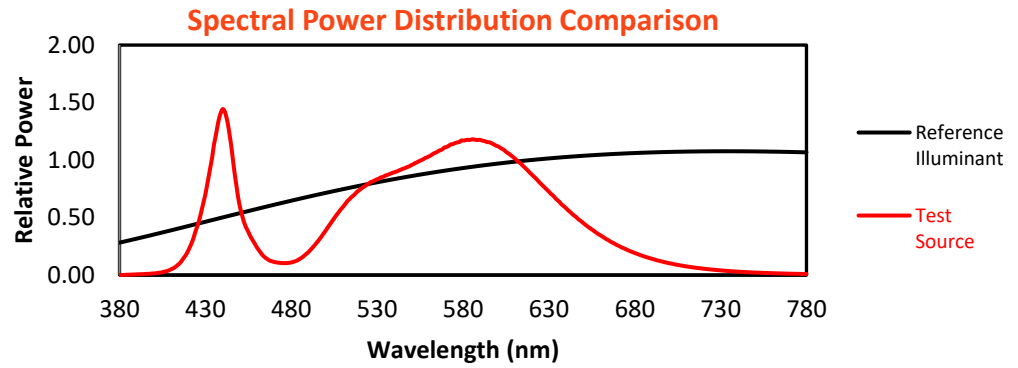
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	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

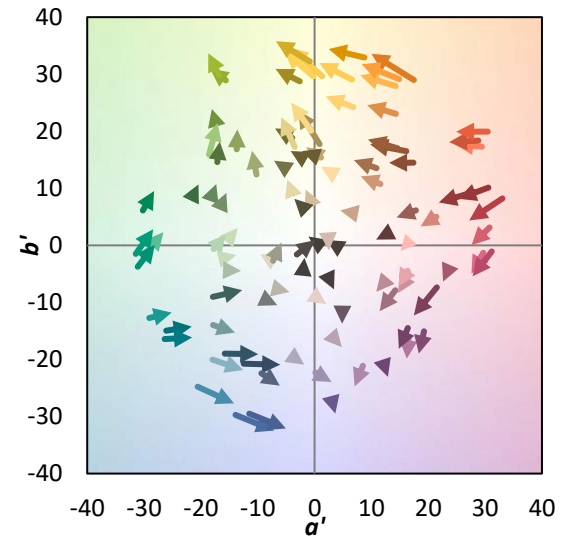
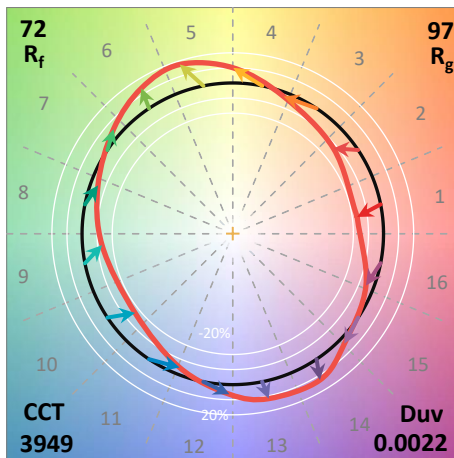
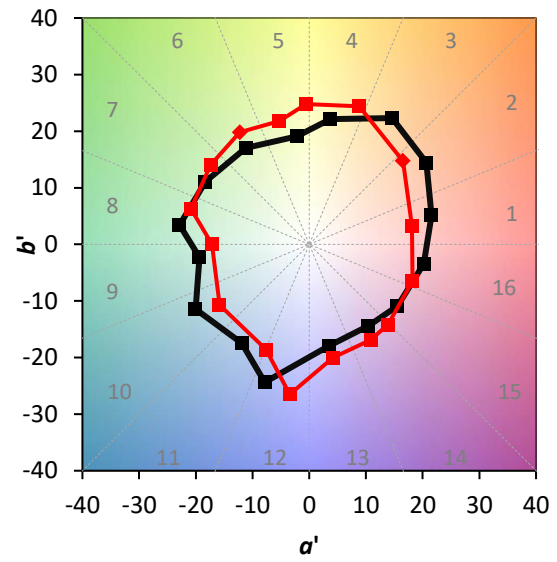
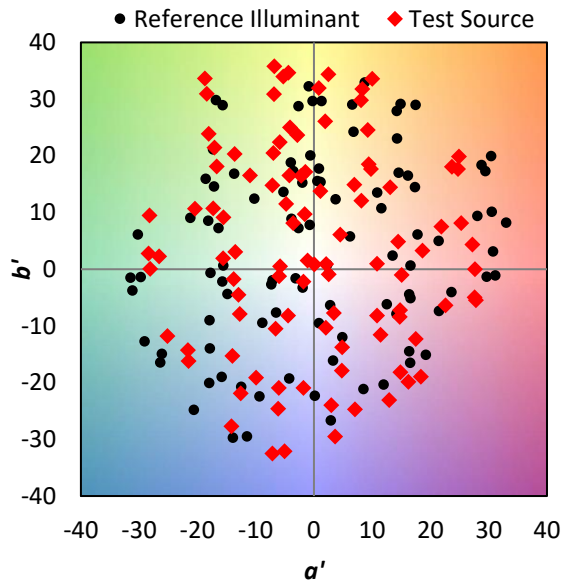
TM-30-18

Summary

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

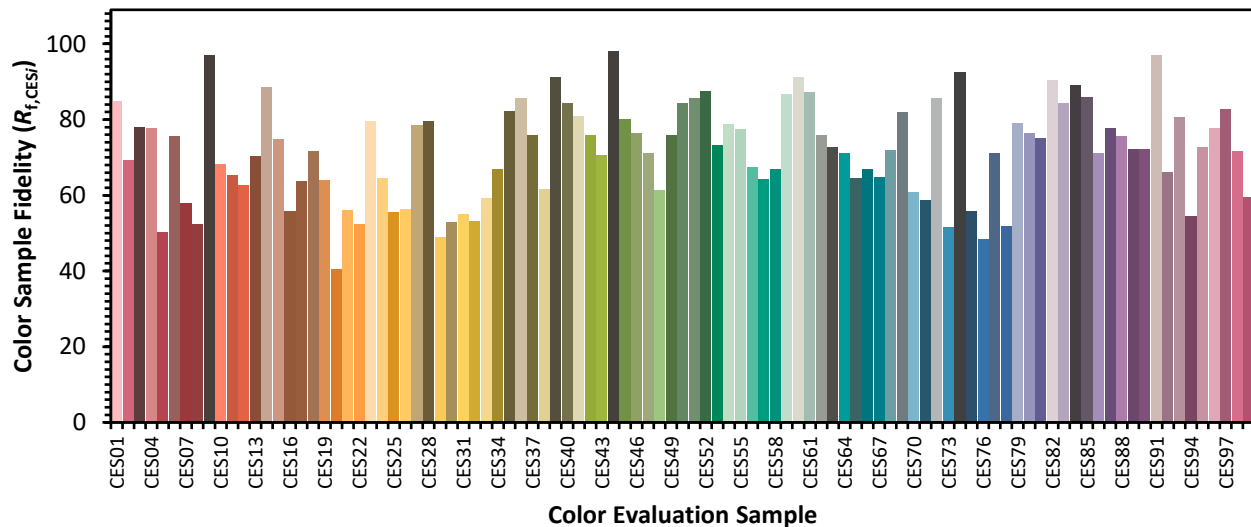


Color Vector Graphics

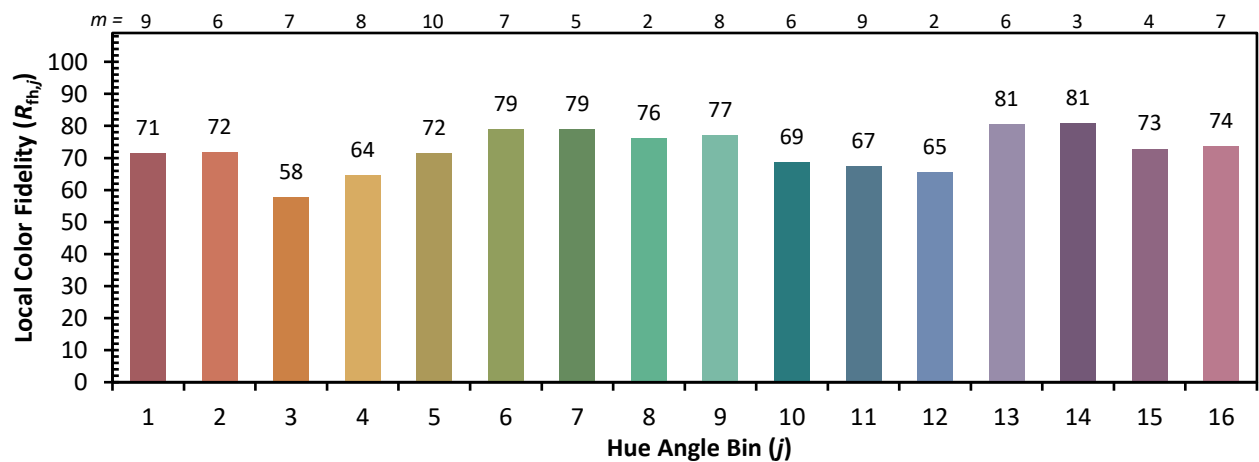
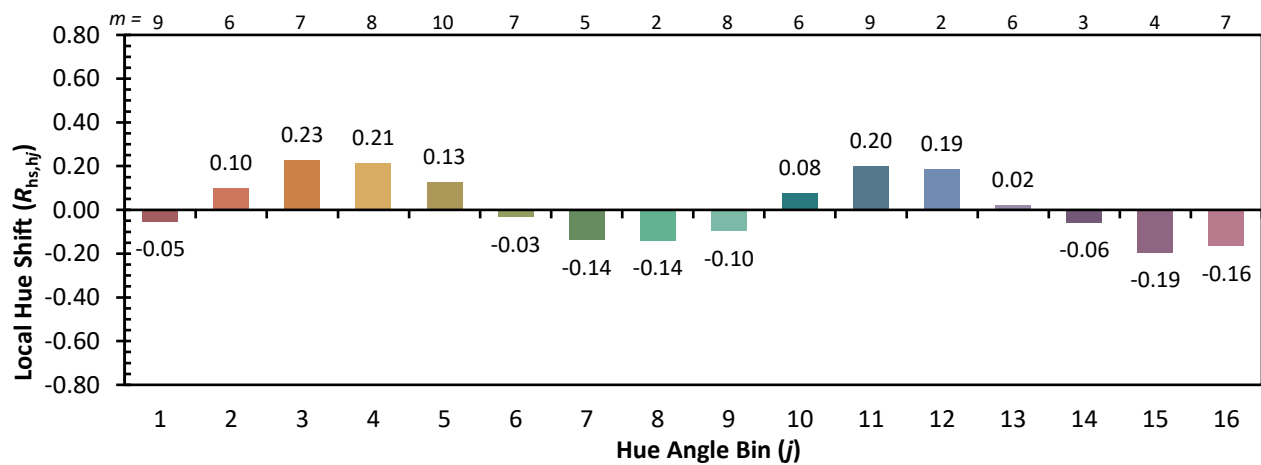
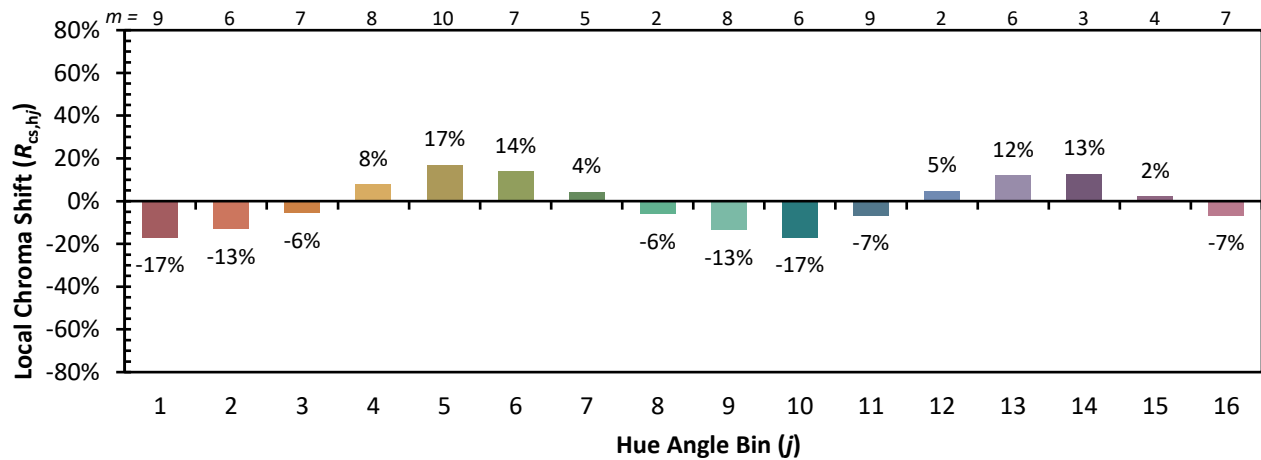


Individual Sample Fidelity Index ($R_{f,i}$)

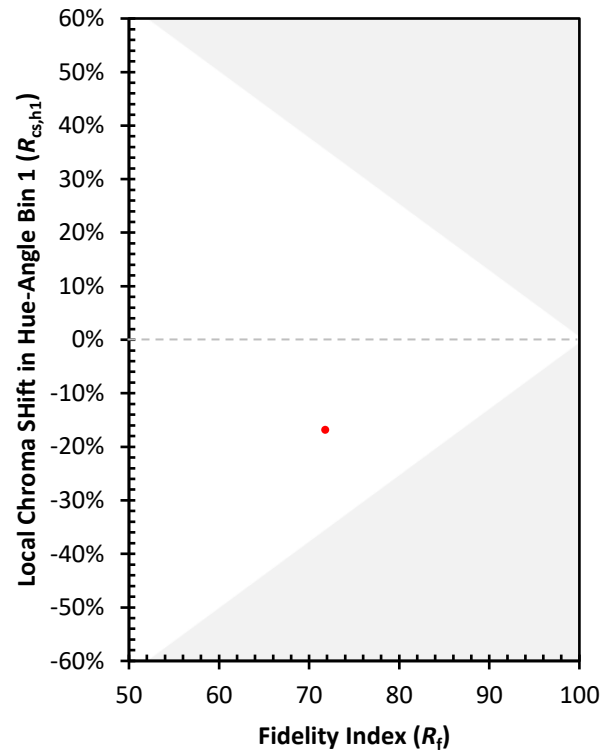
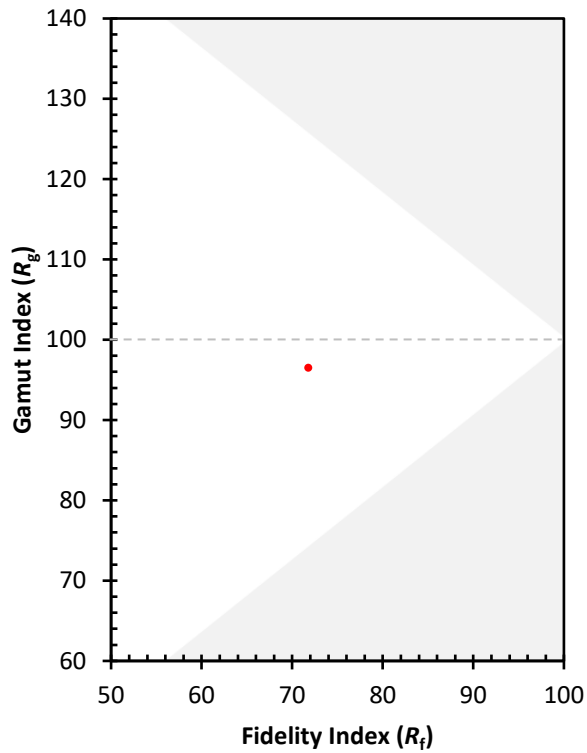
CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82 = 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)