

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: P1067887

Luminaire Tested: **NAV-SA5C-740-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067887
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA5C-740-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 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: 23841.7 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 236
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

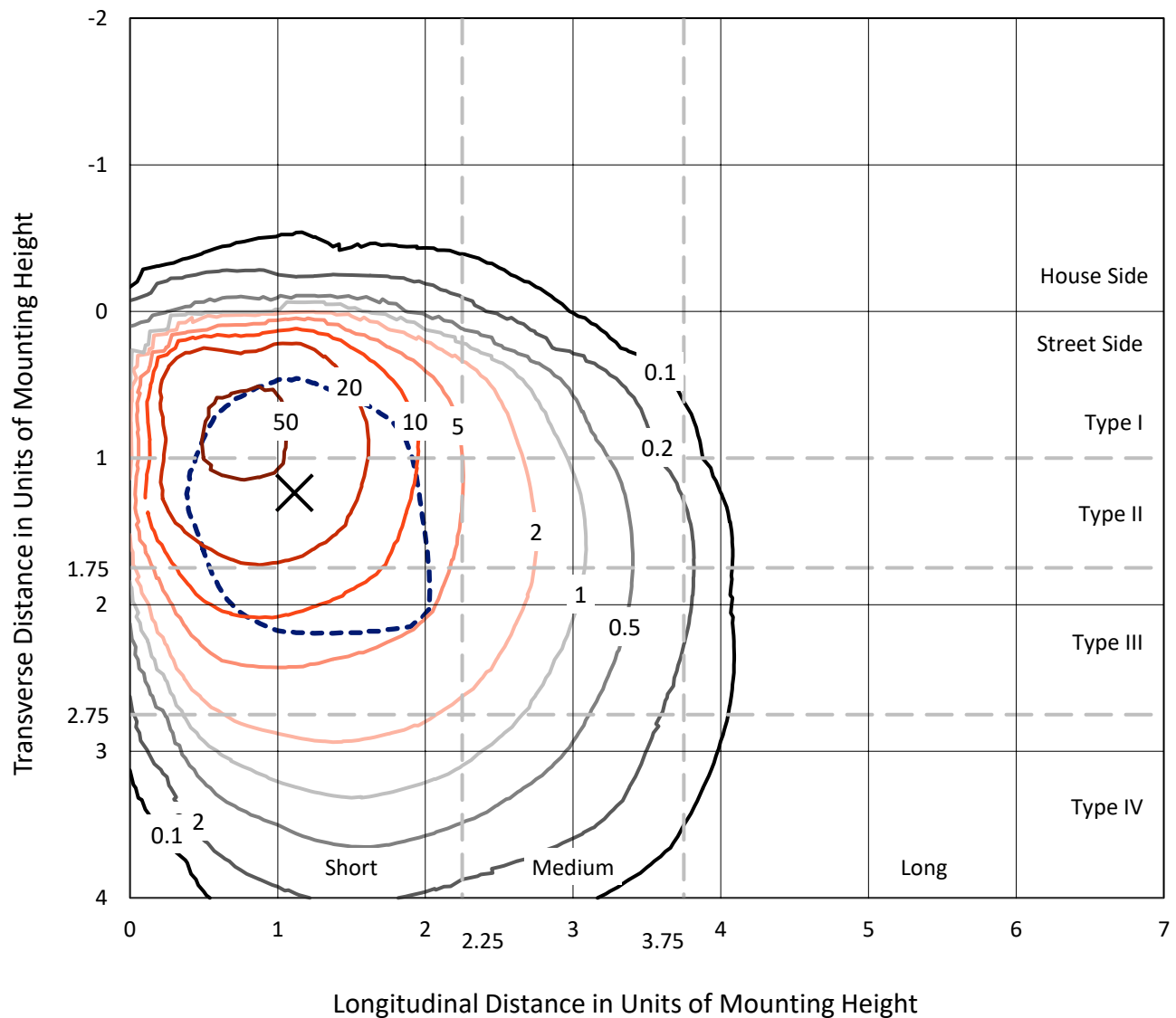


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

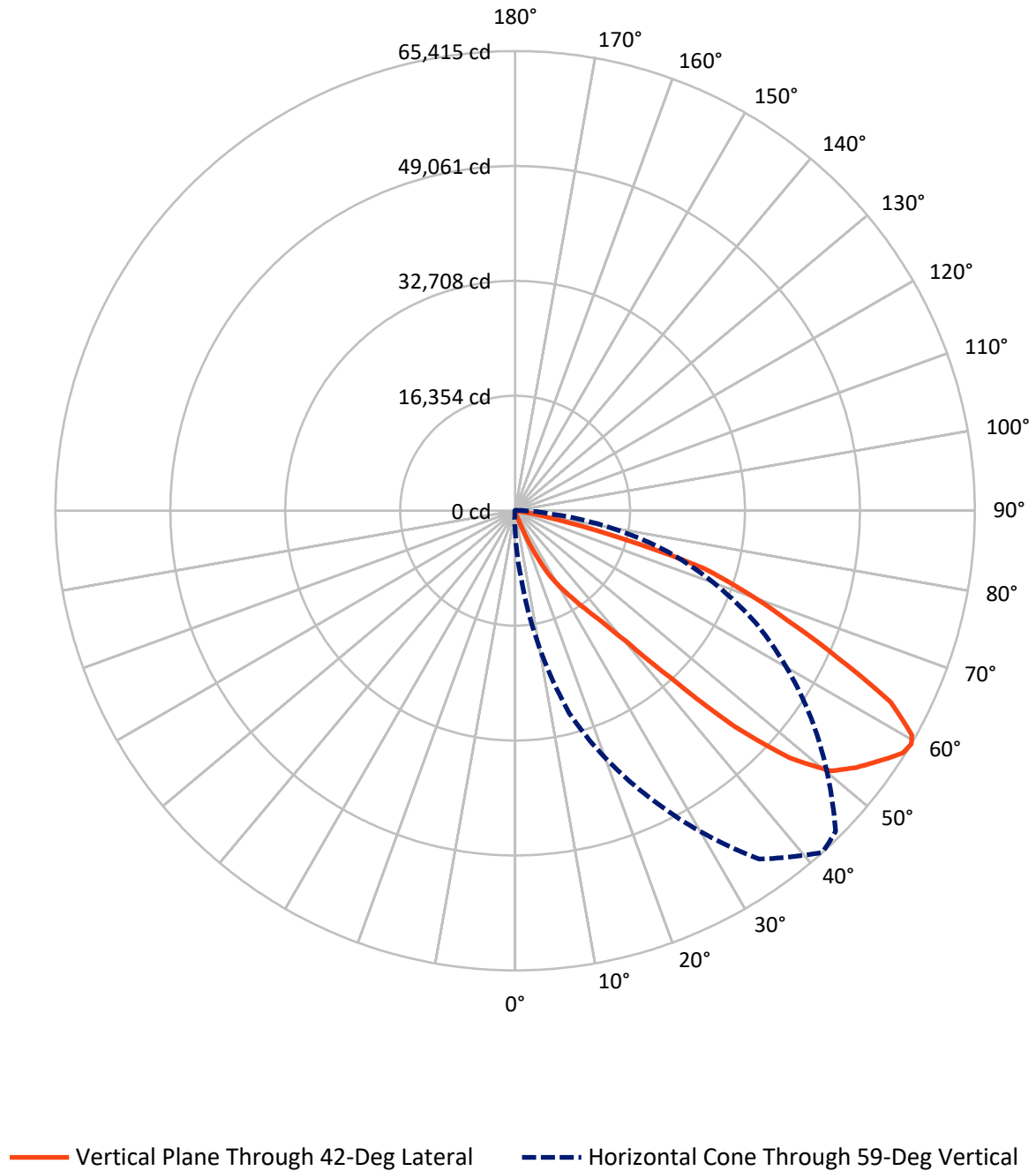


Based on 15 foot mounting height. Maximum calculated value = 70.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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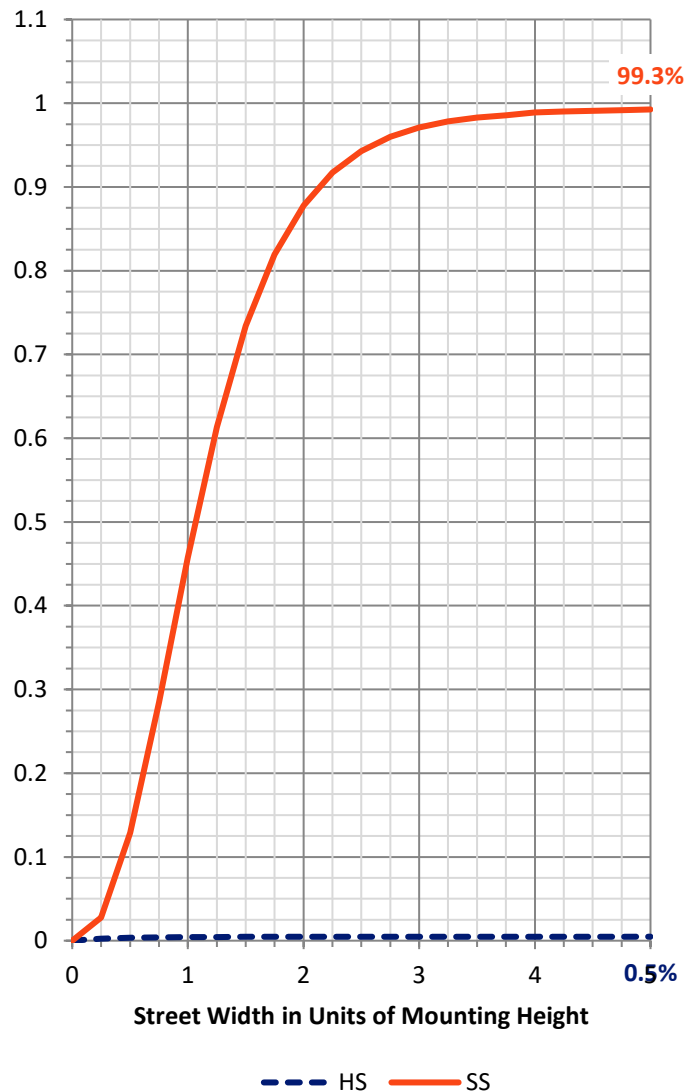
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	114.9	0.0	114.9
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	23726.8	0.0	23726.8
	% Fixture	99.5	0.0	99.5
Total	Lumens	23841.7	0.0	23841.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.0	0.0
10°-20°	34.8	0.1
20°-30°	444.7	1.9
30°-40°	1499.3	6.3
40°-50°	4528.6	19.0
50°-60°	7994.1	33.5
60°-70°	7039.0	29.5
70°-80°	2240.5	9.4
80°-90°	53.6	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°	23841.7	100.0
0°-180°	23841.7	100.0



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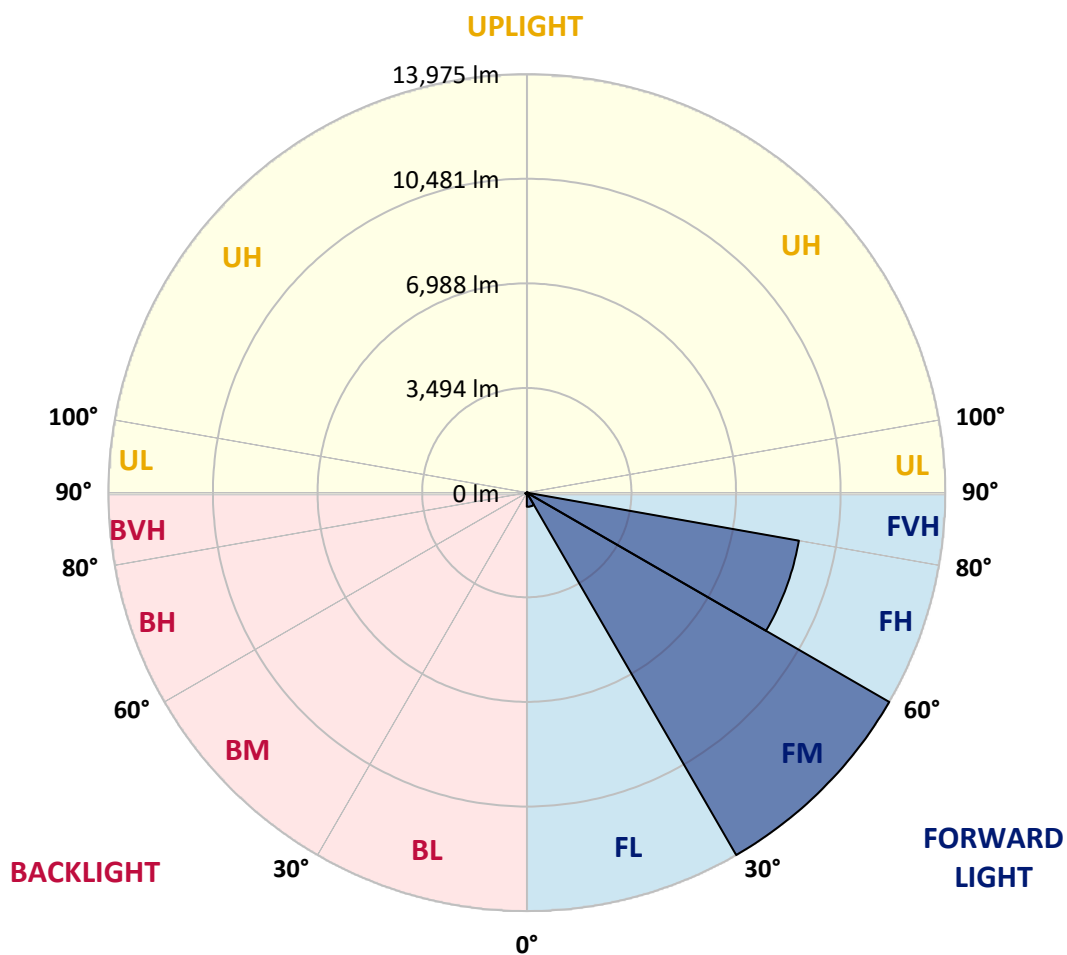
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	473.7	2.0			
FM	(30°-60°)	13975.2	58.6			
FH	(60°-80°)	9227.0	38.7			G4/12000
FVH	(80°-90°)	51.0	0.2			G1/100
BL	(0°-30°)	12.8	0.1	B0/110		
BM	(30°-60°)	46.9	0.2	B0/220		
BH	(60°-80°)	52.6	0.2	B0/110		G0/110
BVH	(80°-90°)	2.6	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
2.5°	104.7	104.7	97.2	89.7	82.2	74.8	74.8	74.8	67.3	67.3	59.8
5°	119.6	119.6	112.1	104.7	104.7	97.2	97.2	89.7	82.2	82.2	74.8
7.5°	127.1	127.1	127.1	127.1	119.6	119.6	119.6	112.1	104.7	97.2	89.7
10°	134.6	142.0	149.5	149.5	149.5	149.5	149.5	142.0	127.1	119.6	104.7
12.5°	149.5	157.0	171.9	186.9	186.9	194.4	186.9	179.4	164.5	142.0	119.6
15°	164.5	179.4	201.8	231.7	261.6	269.1	269.1	246.7	216.8	171.9	142.0
17.5°	186.9	209.3	269.1	366.3	470.9	553.2	553.2	493.4	343.9	224.3	164.5
20°	201.8	246.7	433.6	882.1	1345.5	1689.4	1622.1	1435.2	769.9	351.3	179.4
22.5°	224.3	314.0	919.4	2317.3	3588.1	4216.0	4066.5	3087.2	1726.8	627.9	216.8
25°	254.2	456.0	1823.9	4343.1	6667.8	7348.1	7250.9	5763.3	3147.0	1054.0	276.6
27.5°	314.0	672.8	2922.8	6585.6	9837.3	10420.4	10383.0	8439.5	5030.8	1696.9	358.8
30°	396.2	979.2	4335.6	8947.8	11937.8	12528.4	12341.5	10397.9	6787.4	2593.9	463.5
32.5°	493.4	1368.0	5613.8	10689.5	13873.9	14651.3	14427.1	12102.3	8200.2	3356.3	687.7
35°	642.9	1749.2	6877.1	12229.4	16109.0	17095.7	16721.9	13858.9	9418.7	4216.0	829.7
37.5°	717.6	1973.4	8035.8	13903.8	18620.6	19966.1	19682.1	16079.1	10659.6	5314.8	1016.6
40°	725.1	2242.5	9239.3	16086.5	22171.3	24570.8	24062.5	19891.4	12969.4	6727.6	1308.2
42.5°	747.5	2646.2	10801.6	19809.2	29145.6	32591.7	32016.1	26903.1	18209.5	9560.7	1853.8
45°	852.2	3408.7	13986.0	26768.5	38721.3	43774.5	43109.2	36673.1	25527.7	14890.5	3162.0
47.5°	1218.5	5128.0	19570.0	34281.1	48513.8	52542.9	52378.4	44372.5	32158.1	20354.9	5359.7
50°	1958.5	7871.3	25923.8	40597.6	54748.0	58209.0	57797.9	47586.8	35940.6	24085.0	6869.7
52.5°	2616.3	10495.1	29915.6	42922.4	56609.4	60735.6	60234.8	48760.4	36934.7	25183.8	7288.3
55°	2780.8	11444.5	31104.1	43640.0	57842.8	62873.5	62148.5	49545.3	37061.8	24398.9	6593.1
57.5°	2698.5	10547.4	30334.2	44342.6	59562.0	65071.2	64106.9	51077.7	37487.9	23068.3	5486.8
59°	2556.5	9441.1	29855.8	44903.3	60511.4	65415.1	64510.6	51414.1	37772.0	22462.8	4814.0
60°	2392.1	8693.6	29482.0	45269.5	60451.6	64876.9	63942.5	51257.2	37884.1	21939.6	4492.6
62.5°	1846.4	6936.9	28943.8	45007.9	56676.6	59965.7	59435.0	47414.9	36239.6	20265.2	3543.2
65°	1435.2	5307.4	26970.4	40141.6	48229.7	50442.4	50277.9	40149.1	30498.6	17469.4	2556.5
67.5°	1136.2	3872.1	22806.7	32509.5	38803.5	41950.6	41831.0	32591.7	23150.6	13350.6	1838.9
70°	926.9	2758.3	15638.0	24511.0	31036.9	34998.7	34826.8	26230.3	17155.5	8469.4	1338.1
72.5°	784.9	1764.1	9486.0	18478.6	25901.4	28166.4	27665.6	21162.2	12476.0	4612.2	1061.5
75°	665.3	1083.9	4701.9	11519.2	15428.7	15413.8	14912.9	11205.3	6697.7	2257.5	844.7
77.5°	538.2	762.5	1846.4	3162.0	4866.3	6025.0	5927.8	3969.3	2003.3	657.8	523.3
80°	351.3	358.8	493.4	867.1	1338.1	1480.1	1681.9	1211.0	583.1	314.0	216.8
82.5°	157.0	171.9	224.3	284.1	284.1	261.6	231.7	171.9	127.1	104.7	52.3
85°	37.4	52.3	37.4	44.9	37.4	29.9	29.9	15.0	0.0	0.0	0.0
87.5°	7.5	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°	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
2.5°	59.8	59.8	59.8	52.3	52.3	52.3	44.9	44.9	44.9	37.4	37.4
5°	74.8	67.3	59.8	59.8	52.3	52.3	44.9	37.4	37.4	37.4	29.9
7.5°	82.2	74.8	67.3	59.8	52.3	44.9	44.9	37.4	29.9	29.9	29.9
10°	97.2	89.7	74.8	59.8	52.3	44.9	37.4	37.4	29.9	22.4	22.4
12.5°	112.1	97.2	82.2	67.3	52.3	44.9	37.4	37.4	29.9	22.4	15.0
15°	127.1	112.1	89.7	67.3	52.3	44.9	37.4	37.4	22.4	15.0	7.5
17.5°	142.0	119.6	89.7	74.8	52.3	44.9	37.4	29.9	15.0	7.5	0.0
20°	149.5	127.1	97.2	74.8	52.3	44.9	37.4	22.4	7.5	0.0	0.0
22.5°	164.5	142.0	104.7	74.8	52.3	37.4	22.4	7.5	0.0	0.0	0.0
25°	194.4	149.5	104.7	74.8	52.3	37.4	15.0	0.0	0.0	0.0	0.0
27.5°	216.8	164.5	104.7	74.8	52.3	29.9	7.5	0.0	0.0	0.0	0.0
30°	254.2	179.4	112.1	74.8	52.3	22.4	7.5	0.0	0.0	0.0	0.0
32.5°	314.0	194.4	112.1	74.8	44.9	22.4	0.0	0.0	0.0	0.0	0.0
35°	381.2	224.3	112.1	74.8	44.9	22.4	0.0	0.0	0.0	0.0	0.0
37.5°	388.7	239.2	112.1	74.8	44.9	15.0	0.0	0.0	0.0	0.0	0.0
40°	403.7	224.3	119.6	74.8	44.9	15.0	0.0	0.0	0.0	0.0	0.0
42.5°	463.5	209.3	127.1	74.8	44.9	15.0	0.0	0.0	0.0	0.0	0.0
45°	687.7	216.8	127.1	82.2	44.9	22.4	0.0	0.0	0.0	0.0	0.0
47.5°	1196.0	224.3	119.6	82.2	44.9	22.4	0.0	0.0	0.0	0.0	0.0
50°	1532.4	261.6	119.6	89.7	52.3	15.0	0.0	0.0	0.0	0.0	0.0
52.5°	1629.6	306.5	119.6	97.2	67.3	7.5	0.0	0.0	0.0	0.0	0.0
55°	1584.7	358.8	127.1	104.7	82.2	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1465.1	388.7	134.6	112.1	89.7	0.0	0.0	0.0	0.0	0.0	0.0
59°	1338.1	411.1	157.0	119.6	89.7	0.0	0.0	0.0	0.0	0.0	0.0
60°	1233.4	433.6	164.5	127.1	89.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	994.2	463.5	179.4	149.5	74.8	0.0	0.0	0.0	0.0	0.0	0.0
65°	867.1	485.9	186.9	164.5	67.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	792.4	500.8	201.8	171.9	59.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	732.6	493.4	216.8	164.5	52.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	665.3	470.9	261.6	149.5	44.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	598.0	426.1	284.1	134.6	29.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	433.6	358.8	261.6	119.6	15.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	186.9	194.4	186.9	89.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	37.4	44.9	37.4	22.4	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
2.5°	37.4	37.4	37.4	37.4	44.9	44.9	59.8	74.8	89.7	97.2	97.2
5°	29.9	29.9	29.9	29.9	29.9	37.4	44.9	59.8	82.2	89.7	89.7
7.5°	22.4	22.4	22.4	22.4	22.4	22.4	37.4	52.3	74.8	82.2	89.7
10°	22.4	15.0	15.0	7.5	7.5	15.0	22.4	44.9	67.3	74.8	82.2
12.5°	15.0	7.5	7.5	0.0	0.0	7.5	15.0	37.4	59.8	67.3	74.8
15°	7.5	0.0	0.0	0.0	0.0	0.0	7.5	29.9	52.3	59.8	74.8
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.4	44.9	59.8	67.3
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	37.4	52.3	59.8
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	29.9	44.9	52.3
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.4	29.9	37.4
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	22.4	29.9
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	22.4	29.9
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	15.0	22.4
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	15.0	22.4
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	15.0	15.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	15.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	15.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	15.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	15.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	15.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	7.5
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	7.5
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	7.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	15.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	15.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	7.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	7.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	7.5
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°	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
2.5°	104.7	104.7	97.2	89.7	89.7	89.7	97.2	104.7	104.7	104.7
5°	97.2	97.2	89.7	89.7	89.7	89.7	97.2	112.1	119.6	119.6
7.5°	97.2	97.2	89.7	89.7	89.7	89.7	97.2	112.1	119.6	127.1
10°	89.7	89.7	89.7	89.7	82.2	89.7	97.2	112.1	134.6	134.6
12.5°	89.7	89.7	89.7	89.7	82.2	89.7	104.7	119.6	142.0	149.5
15°	89.7	89.7	89.7	82.2	82.2	89.7	104.7	127.1	149.5	164.5
17.5°	82.2	89.7	89.7	82.2	82.2	89.7	104.7	127.1	164.5	186.9
20°	74.8	82.2	89.7	82.2	82.2	82.2	104.7	127.1	171.9	201.8
22.5°	67.3	74.8	82.2	82.2	74.8	82.2	104.7	134.6	186.9	224.3
25°	59.8	67.3	67.3	74.8	74.8	82.2	104.7	134.6	194.4	254.2
27.5°	44.9	52.3	59.8	67.3	67.3	82.2	104.7	142.0	209.3	314.0
30°	37.4	44.9	52.3	59.8	67.3	82.2	104.7	142.0	224.3	396.2
32.5°	37.4	44.9	52.3	59.8	67.3	74.8	104.7	149.5	246.7	493.4
35°	29.9	37.4	44.9	59.8	59.8	74.8	104.7	149.5	269.1	642.9
37.5°	29.9	37.4	44.9	59.8	59.8	74.8	104.7	149.5	328.9	717.6
40°	22.4	29.9	37.4	59.8	59.8	74.8	112.1	157.0	336.4	725.1
42.5°	22.4	29.9	37.4	52.3	59.8	74.8	112.1	157.0	314.0	747.5
45°	22.4	29.9	37.4	59.8	67.3	82.2	112.1	164.5	306.5	852.2
47.5°	22.4	29.9	37.4	59.8	74.8	82.2	112.1	164.5	314.0	1218.5
50°	22.4	29.9	37.4	59.8	82.2	82.2	112.1	164.5	343.9	1958.5
52.5°	15.0	22.4	29.9	52.3	67.3	89.7	119.6	157.0	366.3	2616.3
55°	15.0	15.0	22.4	44.9	59.8	97.2	127.1	157.0	426.1	2780.8
57.5°	15.0	15.0	22.4	37.4	52.3	104.7	134.6	157.0	493.4	2698.5
59°	15.0	15.0	15.0	29.9	44.9	104.7	142.0	171.9	508.3	2392.1
60°	15.0	15.0	15.0	29.9	44.9	104.7	142.0	171.9	508.3	2392.1
62.5°	7.5	7.5	7.5	29.9	37.4	104.7	157.0	209.3	523.3	1846.4
65°	15.0	15.0	7.5	22.4	37.4	89.7	179.4	224.3	530.7	1435.2
67.5°	15.0	15.0	15.0	29.9	37.4	89.7	186.9	231.7	530.7	1136.2
70°	15.0	15.0	15.0	29.9	44.9	89.7	186.9	239.2	523.3	926.9
72.5°	15.0	15.0	15.0	29.9	44.9	82.2	171.9	246.7	500.8	784.9
75°	15.0	15.0	15.0	22.4	37.4	74.8	164.5	269.1	456.0	665.3
77.5°	15.0	15.0	15.0	15.0	29.9	59.8	149.5	299.0	403.7	538.2
80°	22.4	15.0	15.0	15.0	22.4	52.3	142.0	291.5	336.4	351.3
82.5°	22.4	15.0	15.0	7.5	15.0	37.4	112.1	224.3	171.9	157.0
85°	15.0	15.0	15.0	7.5	7.5	22.4	52.3	67.3	52.3	37.4
87.5°	15.0	15.0	15.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5
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: SP1-2407-184-1

Test Date: 10/09/2024

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

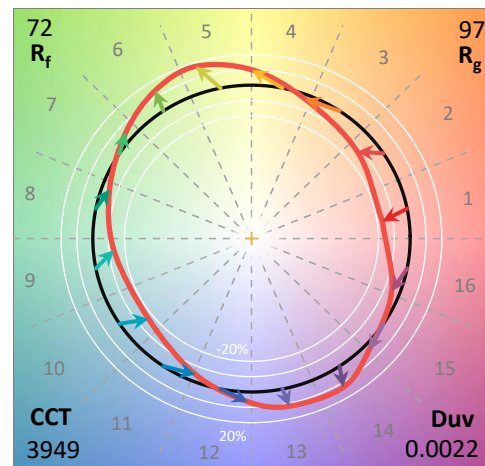
Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

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

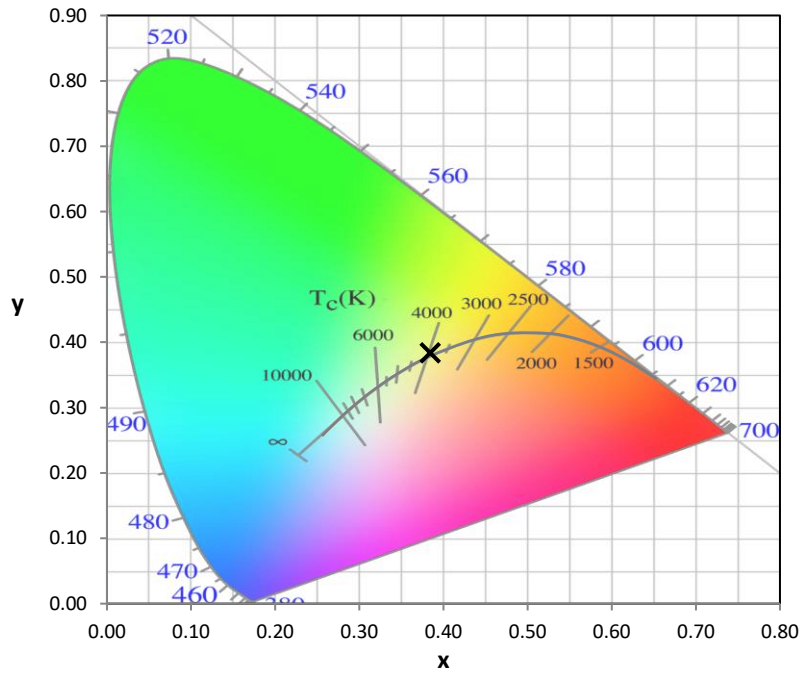
Stabilization Time: 34M
 Operation Time: 1H 34M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-1

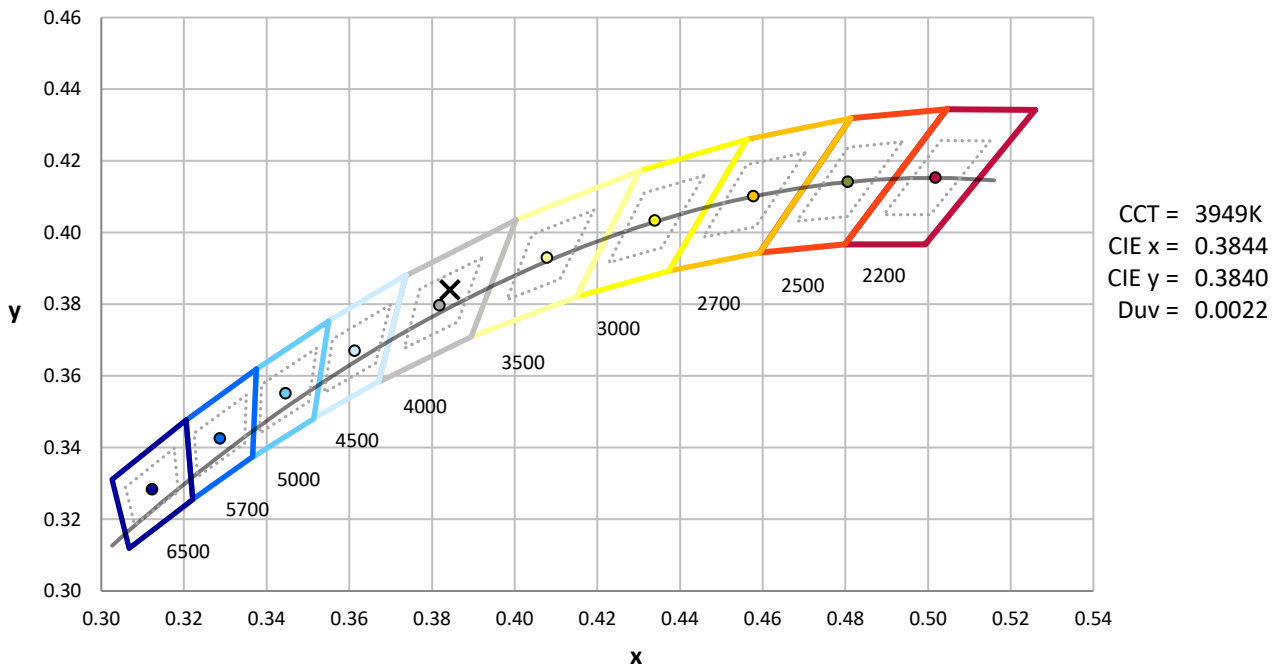
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



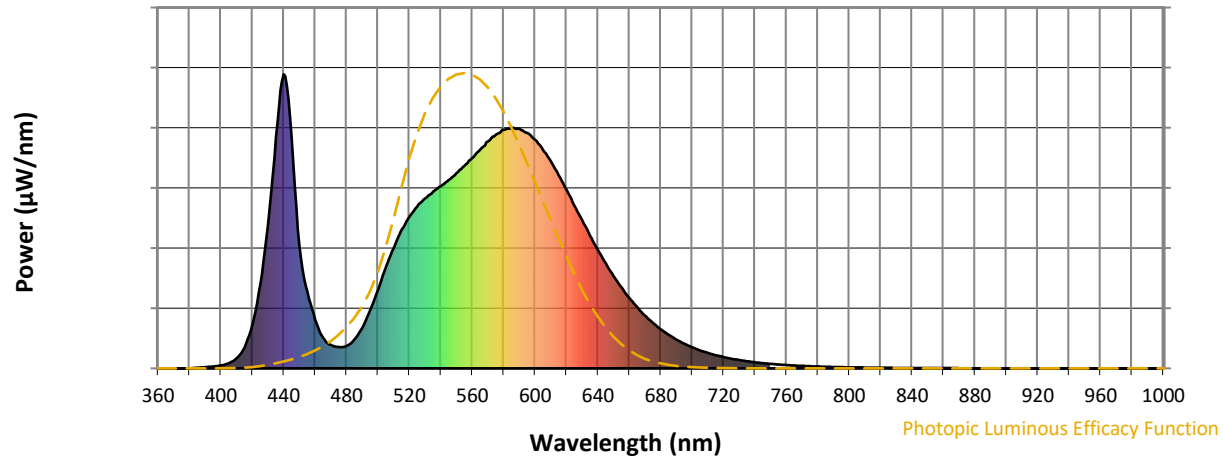
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

Photopic Flux vs. Wavelength

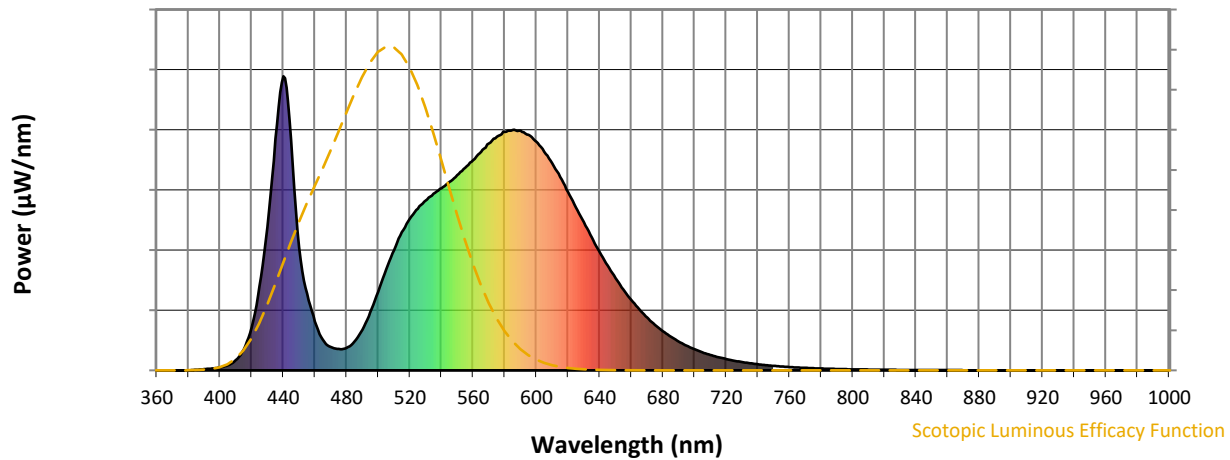


Photopic Lumens: NR

λ (nm)	Power W/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

Scotopic Flux vs. Wavelength



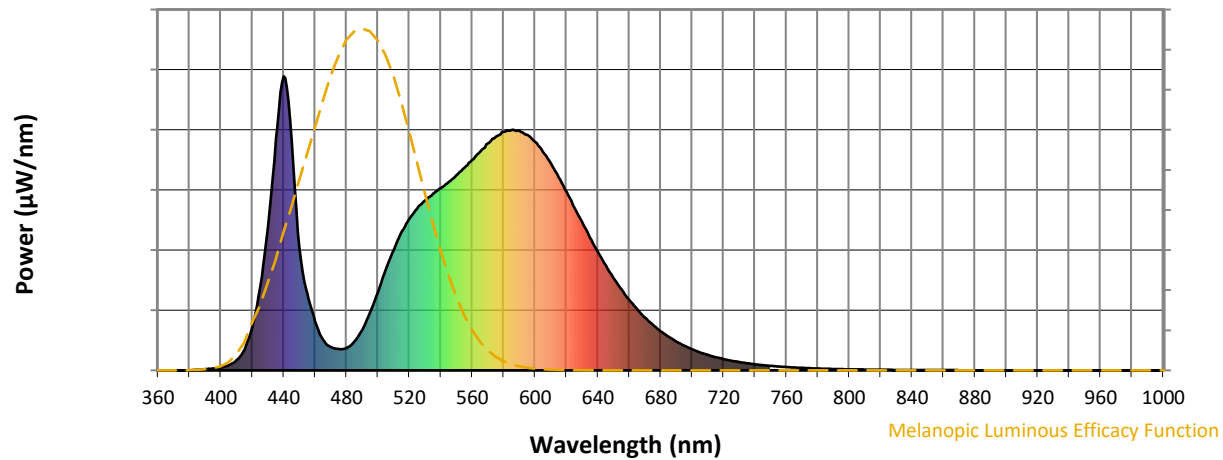
Scotopic Lumens: NR

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

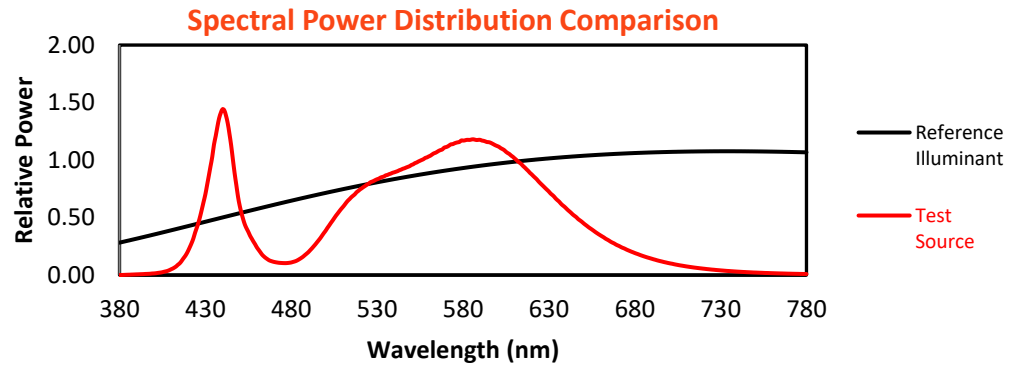
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	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

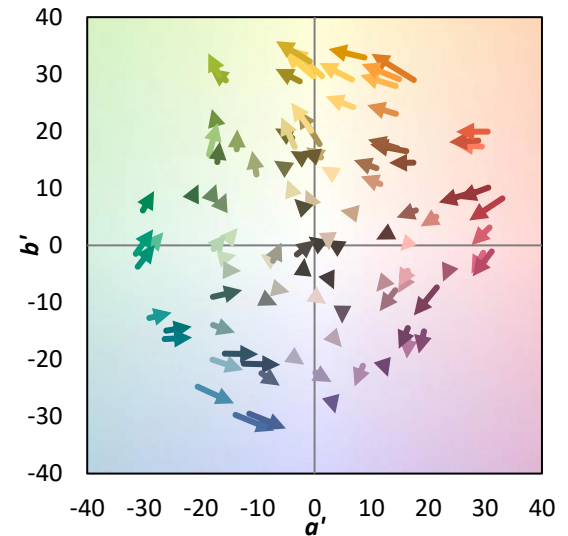
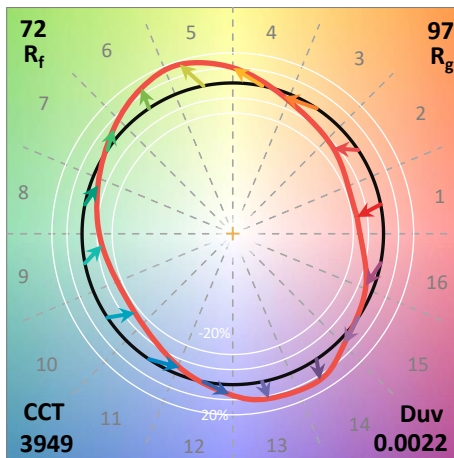
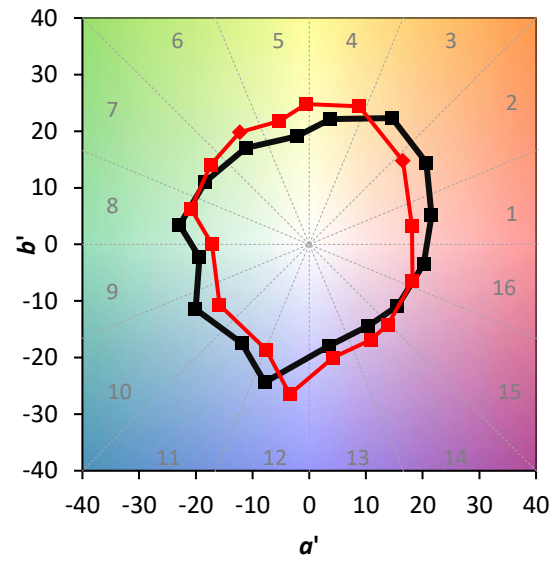
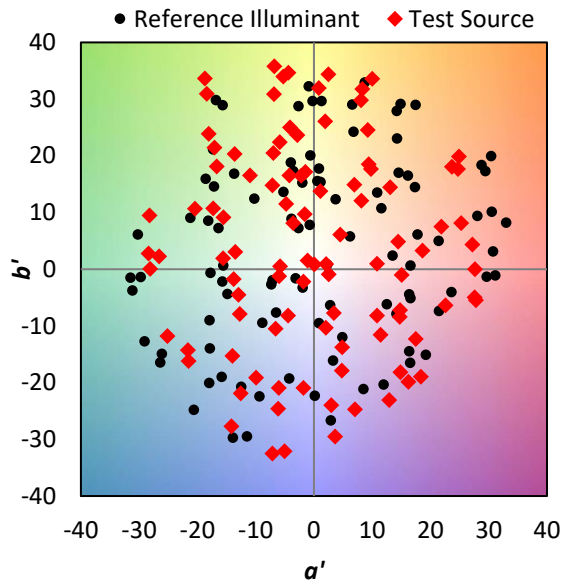
TM-30-18

Summary

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

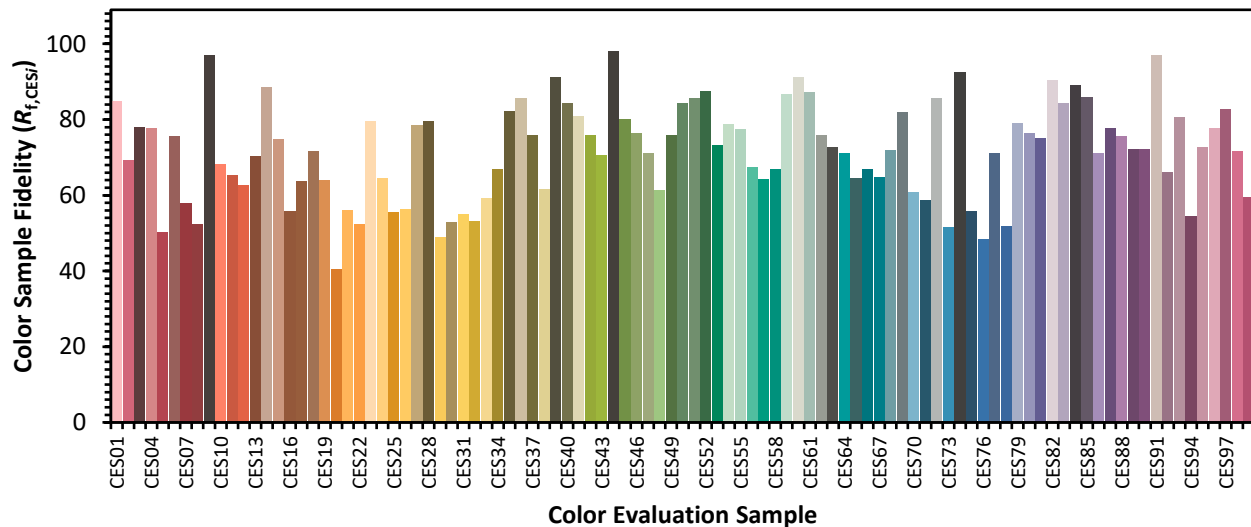


Color Vector Graphics

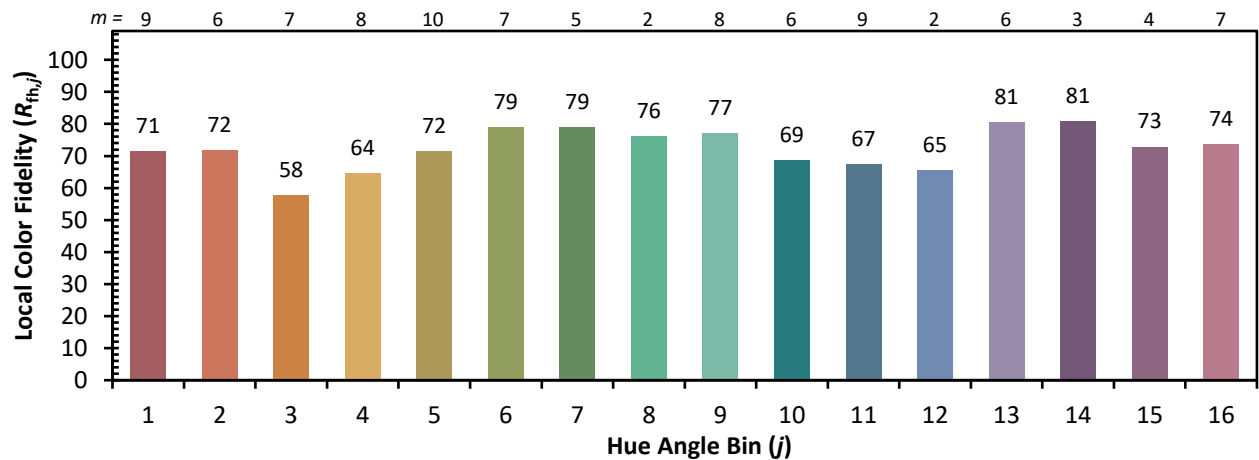
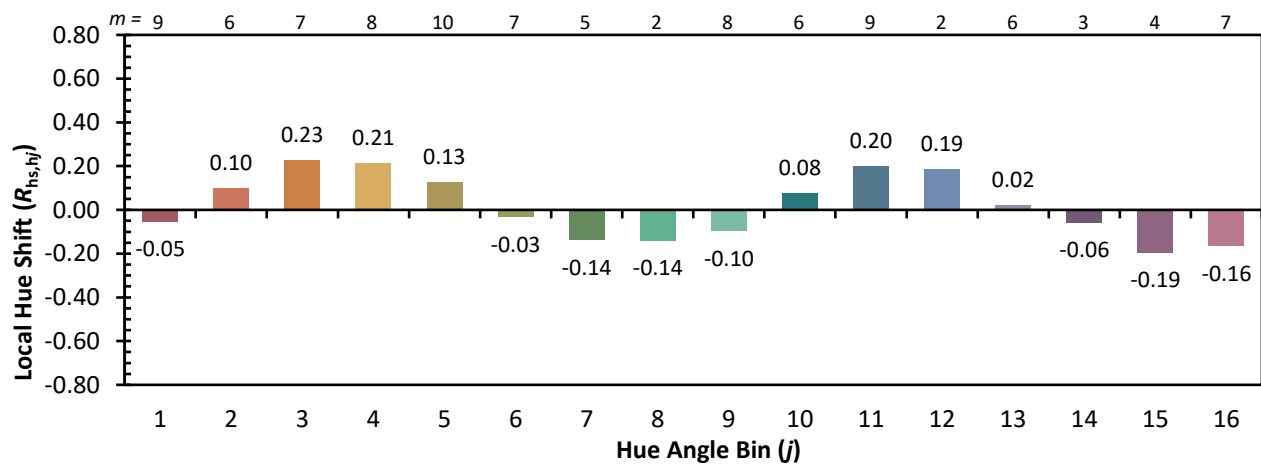
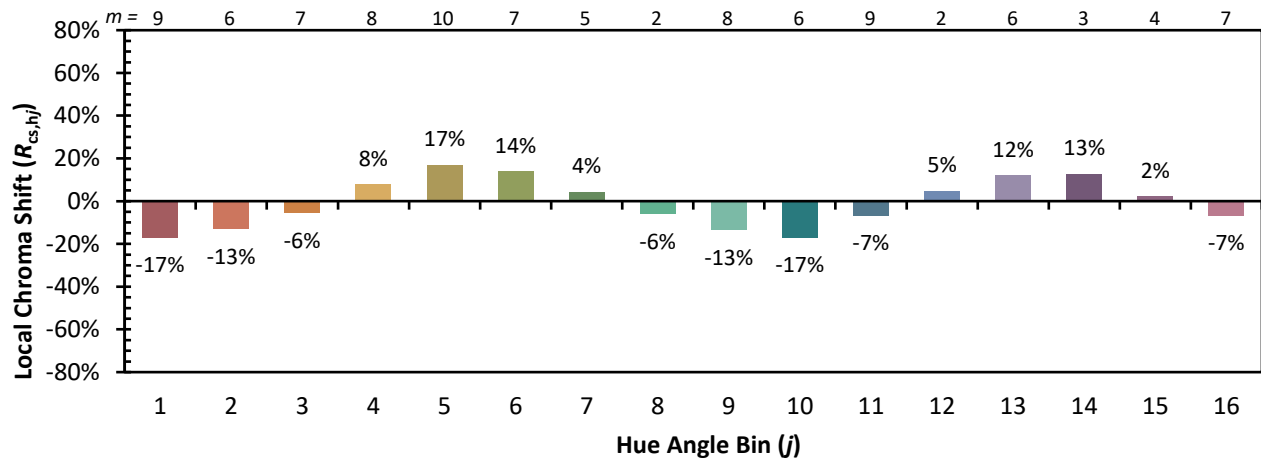


Individual Sample Fidelity Index ($R_{f,i}$)

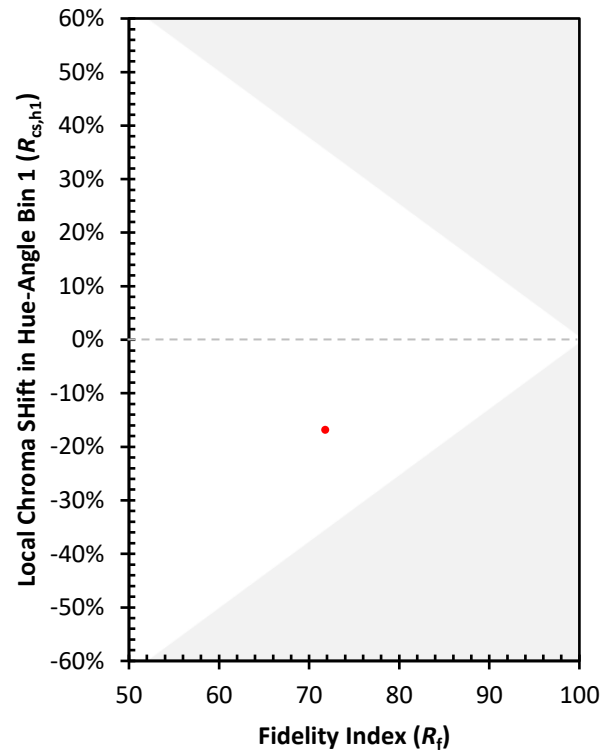
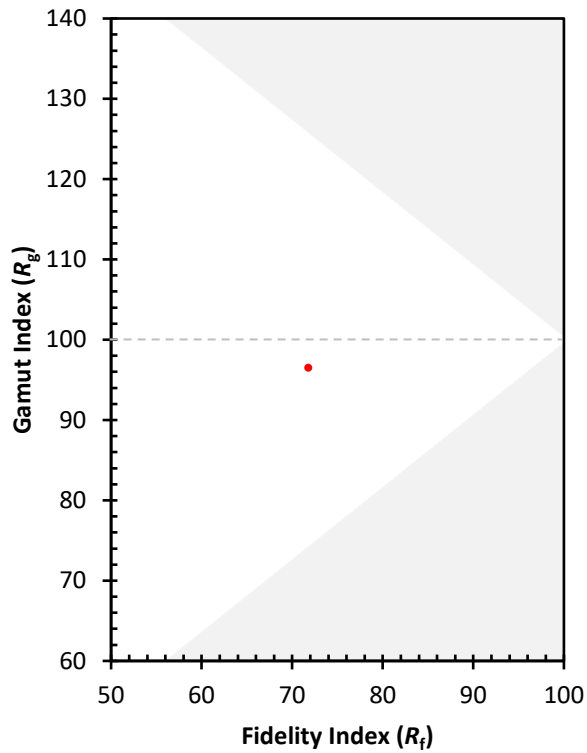
CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82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