

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: P1067870

Luminaire Tested: **NAV-SA1B-740-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067870
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA1B-740-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 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: 3998.3 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 37.9
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

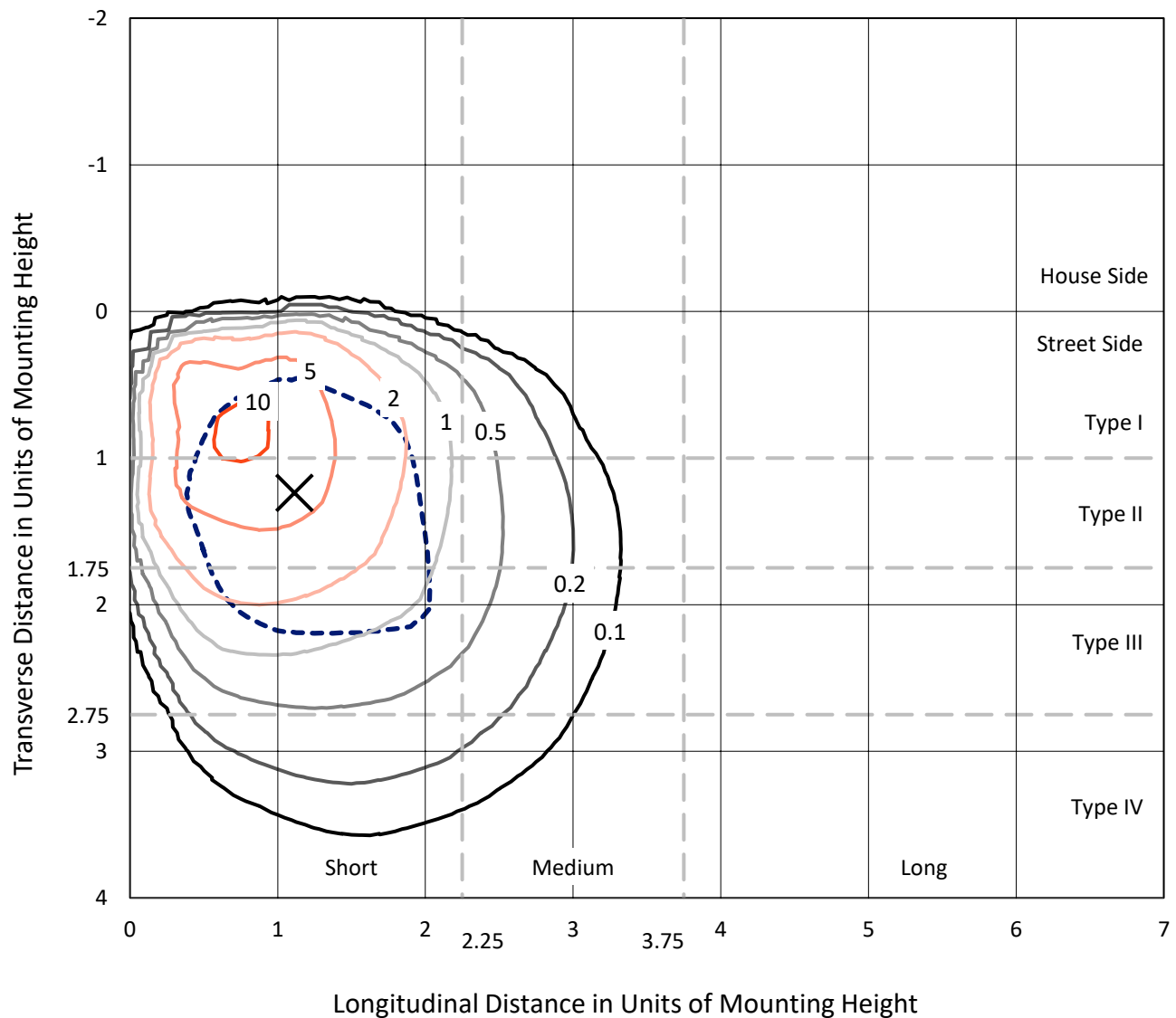


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

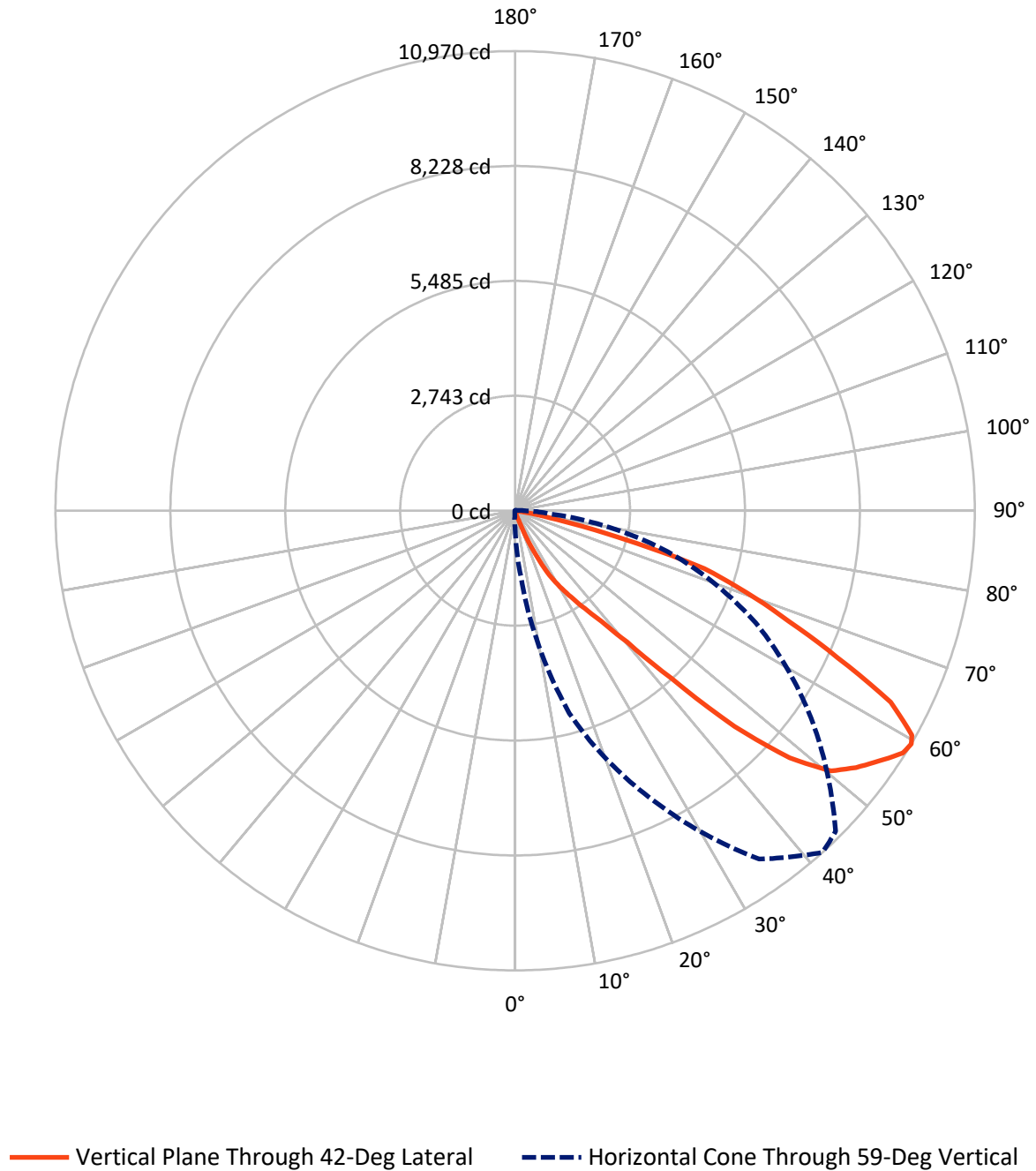


Based on 15 foot mounting height. Maximum calculated value = 11.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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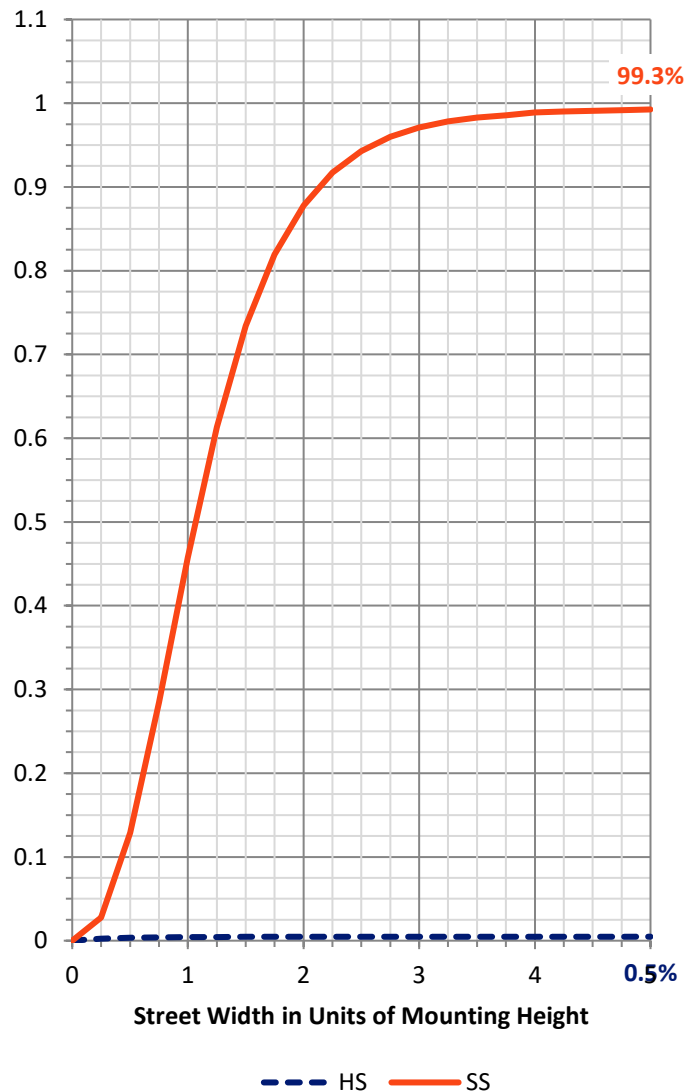
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19.3	0.0	19.3
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	3979.0	0.0	3979.0
	% Fixture	99.5	0.0	99.5
Total	Lumens	3998.3	0.0	3998.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.2	0.0
10°-20°	5.8	0.1
20°-30°	74.6	1.9
30°-40°	251.4	6.3
40°-50°	759.5	19.0
50°-60°	1340.6	33.5
60°-70°	1180.4	29.5
70°-80°	375.7	9.4
80°-90°	9.0	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°	3998.3	100.0
0°-180°	3998.3	100.0



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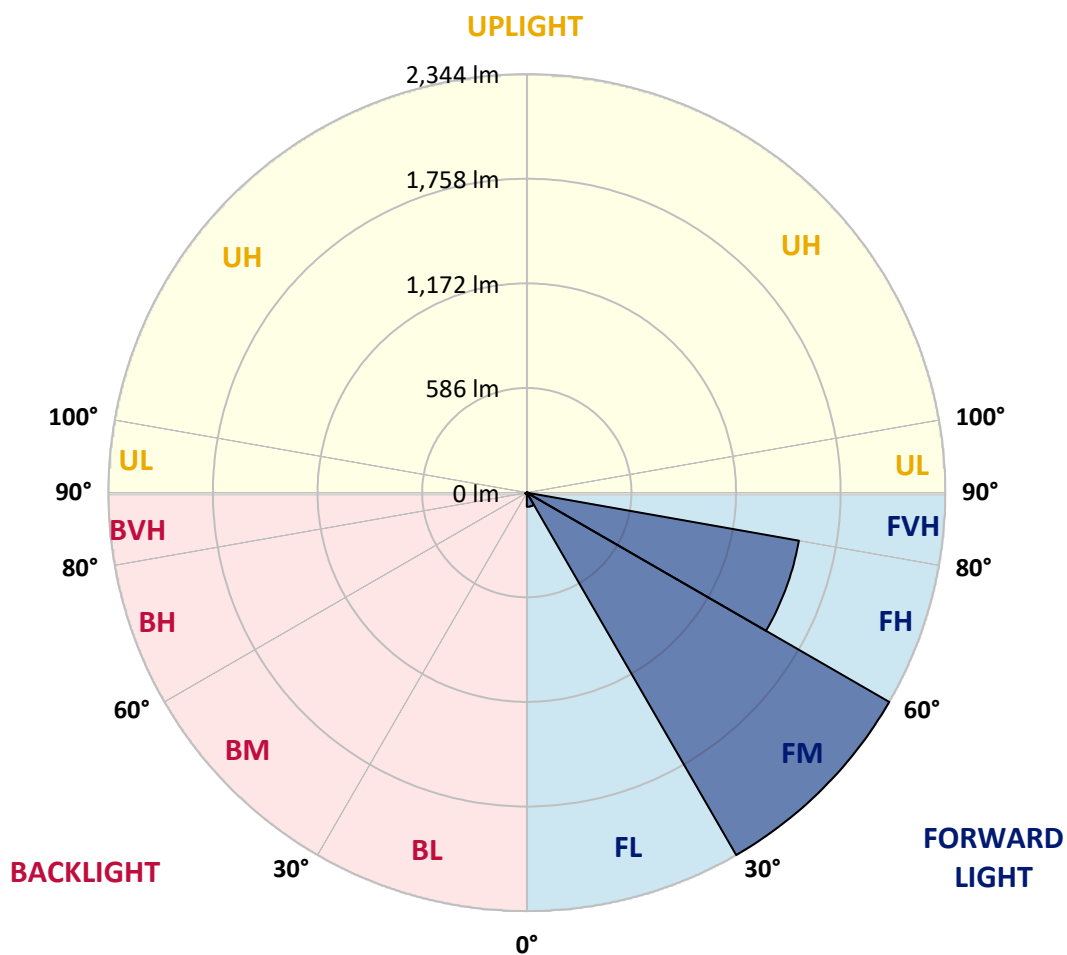
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	79.4	2.0			
FM	(30°-60°)	2343.7	58.6			
FH	(60°-80°)	1547.4	38.7			G1/1800
FVH	(80°-90°)	8.6	0.2			G0/10
BL	(0°-30°)	2.2	0.1	B0/110		
BM	(30°-60°)	7.9	0.2	B0/220		
BH	(60°-80°)	8.8	0.2	B0/110		G0/110
BVH	(80°-90°)	0.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
2.5°	17.6	17.6	16.3	15.0	13.8	12.5	12.5	12.5	11.3	11.3	10.0
5°	20.1	20.1	18.8	17.6	17.6	16.3	16.3	15.0	13.8	13.8	12.5
7.5°	21.3	21.3	21.3	21.3	20.1	20.1	20.1	18.8	17.6	16.3	15.0
10°	22.6	23.8	25.1	25.1	25.1	25.1	25.1	23.8	21.3	20.1	17.6
12.5°	25.1	26.3	28.8	31.3	31.3	32.6	31.3	30.1	27.6	23.8	20.1
15°	27.6	30.1	33.8	38.9	43.9	45.1	45.1	41.4	36.4	28.8	23.8
17.5°	31.3	35.1	45.1	61.4	79.0	92.8	92.8	82.7	57.7	37.6	27.6
20°	33.8	41.4	72.7	147.9	225.6	283.3	272.0	240.7	129.1	58.9	30.1
22.5°	37.6	52.7	154.2	388.6	601.7	707.0	682.0	517.7	289.6	105.3	36.4
25°	42.6	76.5	305.9	728.3	1118.2	1232.3	1216.0	966.5	527.8	176.8	46.4
27.5°	52.7	112.8	490.2	1104.4	1649.7	1747.5	1741.2	1415.3	843.7	284.6	60.2
30°	66.4	164.2	727.1	1500.6	2002.0	2101.0	2069.7	1743.8	1138.3	435.0	77.7
32.5°	82.7	229.4	941.5	1792.6	2326.7	2457.0	2419.4	2029.6	1375.2	562.9	115.3
35°	107.8	293.3	1153.3	2050.9	2701.5	2867.0	2804.3	2324.2	1579.5	707.0	139.1
37.5°	120.3	330.9	1347.6	2331.7	3122.7	3348.4	3300.7	2696.5	1787.6	891.3	170.5
40°	121.6	376.1	1549.4	2697.7	3718.2	4120.6	4035.3	3335.8	2175.0	1128.2	219.4
42.5°	125.4	443.8	1811.4	3322.0	4887.8	5465.7	5369.2	4511.7	3053.8	1603.3	310.9
45°	142.9	571.6	2345.5	4489.1	6493.6	7341.1	7229.5	6150.1	4281.0	2497.2	530.3
47.5°	204.3	860.0	3281.9	5749.0	8135.8	8811.5	8783.9	7441.3	5393.0	3413.5	898.8
50°	328.4	1320.0	4347.5	6808.3	9181.3	9761.8	9692.8	7980.4	6027.3	4039.1	1152.1
52.5°	438.8	1760.0	5016.9	7198.1	9493.5	10185.5	10101.5	8177.2	6194.0	4223.4	1222.3
55°	466.3	1919.3	5216.2	7318.5	9700.3	10544.0	10422.4	8308.8	6215.3	4091.7	1105.7
57.5°	452.5	1768.8	5087.1	7436.3	9988.7	10912.6	10750.8	8565.8	6286.8	3868.6	920.1
59°	428.7	1583.3	5006.9	7530.4	10147.9	10970.2	10818.5	8622.2	6334.4	3767.1	807.3
60°	401.2	1457.9	4944.2	7591.8	10137.8	10880.0	10723.3	8595.9	6353.2	3679.3	753.4
62.5°	309.6	1163.3	4853.9	7547.9	9504.8	10056.3	9967.3	7951.6	6077.4	3398.5	594.2
65°	240.7	890.1	4523.0	6731.8	8088.2	8459.3	8431.7	6733.1	5114.7	2929.7	428.7
67.5°	190.5	649.4	3824.7	5451.9	6507.4	7035.2	7015.1	5465.7	3882.4	2238.9	308.4
70°	155.4	462.6	2622.5	4110.5	5204.9	5869.3	5840.5	4398.9	2877.0	1420.3	224.4
72.5°	131.6	295.8	1590.8	3098.9	4343.7	4723.6	4639.6	3548.9	2092.3	773.5	178.0
75°	111.6	181.8	788.5	1931.8	2587.4	2584.9	2500.9	1879.1	1123.2	378.6	141.7
77.5°	90.3	127.9	309.6	530.3	816.1	1010.4	994.1	665.7	336.0	110.3	87.8
80°	58.9	60.2	82.7	145.4	224.4	248.2	282.1	203.1	97.8	52.7	36.4
82.5°	26.3	28.8	37.6	47.6	47.6	43.9	38.9	28.8	21.3	17.6	8.8
85°	6.3	8.8	6.3	7.5	6.3	5.0	5.0	2.5	0.0	0.0	0.0
87.5°	1.3	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°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
2.5°	10.0	10.0	10.0	8.8	8.8	8.8	7.5	7.5	7.5	6.3	6.3
5°	12.5	11.3	10.0	10.0	8.8	8.8	7.5	6.3	6.3	6.3	5.0
7.5°	13.8	12.5	11.3	10.0	8.8	7.5	7.5	6.3	5.0	5.0	5.0
10°	16.3	15.0	12.5	10.0	8.8	7.5	6.3	6.3	5.0	3.8	3.8
12.5°	18.8	16.3	13.8	11.3	8.8	7.5	6.3	6.3	5.0	3.8	2.5
15°	21.3	18.8	15.0	11.3	8.8	7.5	6.3	6.3	3.8	2.5	1.3
17.5°	23.8	20.1	15.0	12.5	8.8	7.5	6.3	5.0	2.5	1.3	0.0
20°	25.1	21.3	16.3	12.5	8.8	7.5	6.3	3.8	1.3	0.0	0.0
22.5°	27.6	23.8	17.6	12.5	8.8	6.3	3.8	1.3	0.0	0.0	0.0
25°	32.6	25.1	17.6	12.5	8.8	6.3	2.5	0.0	0.0	0.0	0.0
27.5°	36.4	27.6	17.6	12.5	8.8	5.0	1.3	0.0	0.0	0.0	0.0
30°	42.6	30.1	18.8	12.5	8.8	3.8	1.3	0.0	0.0	0.0	0.0
32.5°	52.7	32.6	18.8	12.5	7.5	3.8	0.0	0.0	0.0	0.0	0.0
35°	63.9	37.6	18.8	12.5	7.5	3.8	0.0	0.0	0.0	0.0	0.0
37.5°	65.2	40.1	18.8	12.5	7.5	2.5	0.0	0.0	0.0	0.0	0.0
40°	67.7	37.6	20.1	12.5	7.5	2.5	0.0	0.0	0.0	0.0	0.0
42.5°	77.7	35.1	21.3	12.5	7.5	2.5	0.0	0.0	0.0	0.0	0.0
45°	115.3	36.4	21.3	13.8	7.5	3.8	0.0	0.0	0.0	0.0	0.0
47.5°	200.6	37.6	20.1	13.8	7.5	3.8	0.0	0.0	0.0	0.0	0.0
50°	257.0	43.9	20.1	15.0	8.8	2.5	0.0	0.0	0.0	0.0	0.0
52.5°	273.3	51.4	20.1	16.3	11.3	1.3	0.0	0.0	0.0	0.0	0.0
55°	265.8	60.2	21.3	17.6	13.8	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	245.7	65.2	22.6	18.8	15.0	0.0	0.0	0.0	0.0	0.0	0.0
59°	224.4	68.9	26.3	20.1	15.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	206.8	72.7	27.6	21.3	15.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	166.7	77.7	30.1	25.1	12.5	0.0	0.0	0.0	0.0	0.0	0.0
65°	145.4	81.5	31.3	27.6	11.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	132.9	84.0	33.8	28.8	10.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	122.9	82.7	36.4	27.6	8.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	111.6	79.0	43.9	25.1	7.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	100.3	71.5	47.6	22.6	5.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	72.7	60.2	43.9	20.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	31.3	32.6	31.3	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.3	7.5	6.3	3.8	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°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
2.5°	6.3	6.3	6.3	6.3	7.5	7.5	10.0	12.5	15.0	16.3	16.3
5°	5.0	5.0	5.0	5.0	5.0	6.3	7.5	10.0	13.8	15.0	15.0
7.5°	3.8	3.8	3.8	3.8	3.8	3.8	6.3	8.8	12.5	13.8	15.0
10°	3.8	2.5	2.5	1.3	1.3	2.5	3.8	7.5	11.3	12.5	13.8
12.5°	2.5	1.3	1.3	0.0	0.0	1.3	2.5	6.3	10.0	11.3	12.5
15°	1.3	0.0	0.0	0.0	0.0	0.0	1.3	5.0	8.8	10.0	12.5
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	7.5	10.0	11.3
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	6.3	8.8	10.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	5.0	7.5	8.8
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	5.0	6.3
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	3.8	5.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	3.8	5.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.5	3.8
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.5	3.8
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.5	2.5
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.5
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.5
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.5
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.5
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.5
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
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°	318°	325°	335°	345°	355°	360°
0°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
2.5°	17.6	17.6	16.3	15.0	15.0	15.0	16.3	17.6	17.6	17.6
5°	16.3	16.3	15.0	15.0	15.0	15.0	16.3	18.8	20.1	20.1
7.5°	16.3	16.3	15.0	15.0	15.0	15.0	16.3	18.8	20.1	21.3
10°	15.0	15.0	15.0	15.0	13.8	15.0	16.3	18.8	22.6	22.6
12.5°	15.0	15.0	15.0	15.0	13.8	15.0	17.6	20.1	23.8	25.1
15°	15.0	15.0	15.0	13.8	13.8	15.0	17.6	21.3	25.1	27.6
17.5°	13.8	15.0	15.0	13.8	13.8	15.0	17.6	21.3	27.6	31.3
20°	12.5	13.8	15.0	13.8	13.8	13.8	17.6	21.3	28.8	33.8
22.5°	11.3	12.5	13.8	13.8	12.5	13.8	17.6	22.6	31.3	37.6
25°	10.0	11.3	11.3	12.5	12.5	13.8	17.6	22.6	32.6	42.6
27.5°	7.5	8.8	10.0	11.3	11.3	13.8	17.6	23.8	35.1	52.7
30°	6.3	7.5	8.8	10.0	11.3	13.8	17.6	23.8	37.6	66.4
32.5°	6.3	7.5	8.8	10.0	11.3	12.5	17.6	25.1	41.4	82.7
35°	5.0	6.3	7.5	10.0	10.0	12.5	17.6	25.1	45.1	107.8
37.5°	5.0	6.3	7.5	10.0	10.0	12.5	17.6	25.1	55.2	120.3
40°	3.8	5.0	6.3	10.0	10.0	12.5	18.8	26.3	56.4	121.6
42.5°	3.8	5.0	6.3	8.8	10.0	12.5	18.8	26.3	52.7	125.4
45°	3.8	5.0	6.3	10.0	11.3	13.8	18.8	27.6	51.4	142.9
47.5°	3.8	5.0	6.3	10.0	12.5	13.8	18.8	27.6	52.7	204.3
50°	3.8	5.0	6.3	10.0	13.8	13.8	18.8	27.6	57.7	328.4
52.5°	2.5	3.8	5.0	8.8	11.3	15.0	20.1	26.3	61.4	438.8
55°	2.5	2.5	3.8	7.5	10.0	16.3	21.3	26.3	71.5	466.3
57.5°	2.5	2.5	3.8	6.3	8.8	17.6	22.6	26.3	82.7	452.5
59°	2.5	2.5	2.5	6.3	7.5	17.6	22.6	27.6	84.0	428.7
60°	2.5	2.5	2.5	5.0	7.5	17.6	23.8	28.8	85.2	401.2
62.5°	1.3	1.3	1.3	5.0	6.3	17.6	26.3	35.1	87.8	309.6
65°	2.5	2.5	1.3	3.8	6.3	15.0	30.1	37.6	89.0	240.7
67.5°	2.5	2.5	2.5	5.0	6.3	15.0	31.3	38.9	89.0	190.5
70°	2.5	2.5	2.5	5.0	7.5	15.0	31.3	40.1	87.8	155.4
72.5°	2.5	2.5	2.5	5.0	7.5	13.8	28.8	41.4	84.0	131.6
75°	2.5	2.5	2.5	3.8	6.3	12.5	27.6	45.1	76.5	111.6
77.5°	2.5	2.5	2.5	2.5	5.0	10.0	25.1	50.1	67.7	90.3
80°	3.8	2.5	2.5	2.5	3.8	8.8	23.8	48.9	56.4	58.9
82.5°	3.8	2.5	2.5	1.3	2.5	6.3	18.8	37.6	28.8	26.3
85°	2.5	2.5	2.5	1.3	1.3	3.8	8.8	11.3	8.8	6.3
87.5°	2.5	2.5	2.5	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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: SP1-2407-184-1

Test Date: 10/09/2024

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

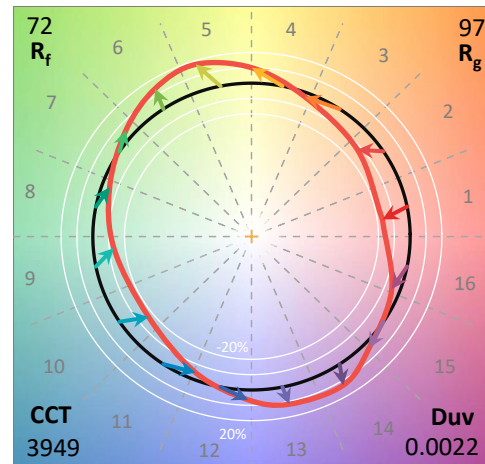
Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

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

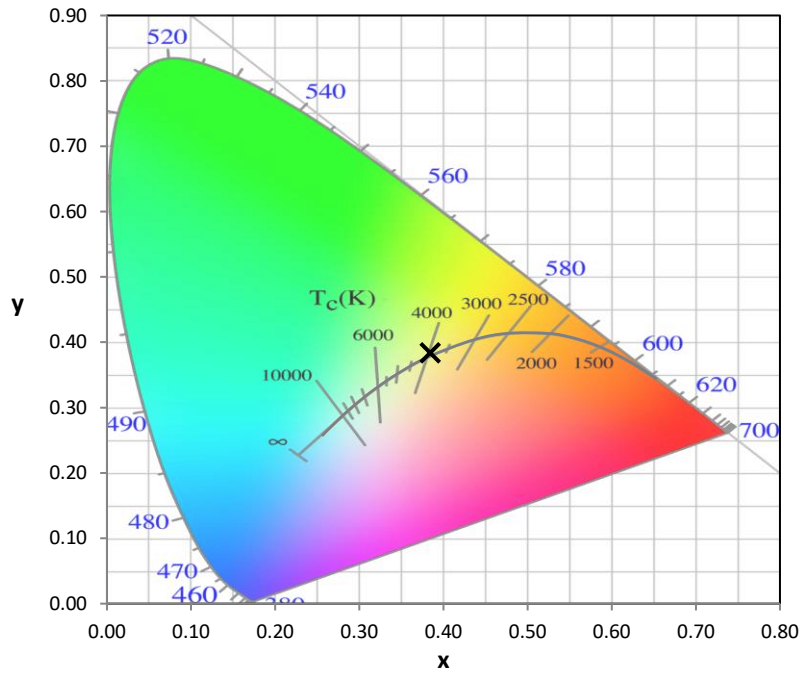
Stabilization Time: 34M
 Operation Time: 1H 34M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-1

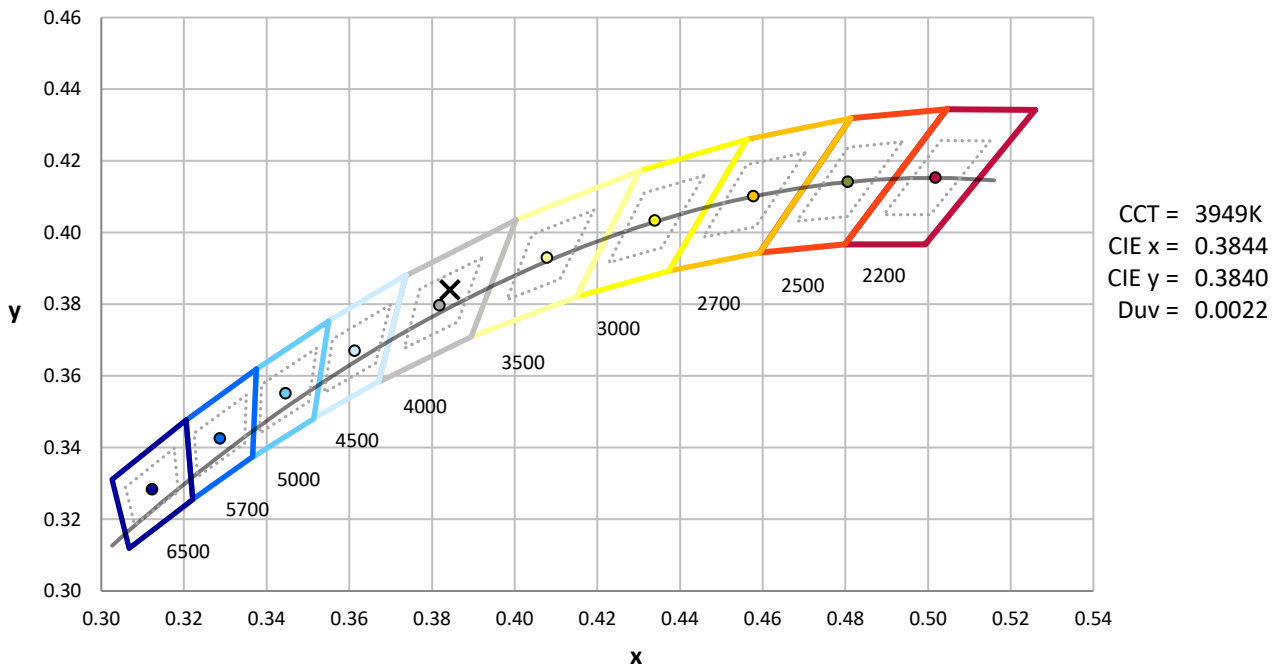
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



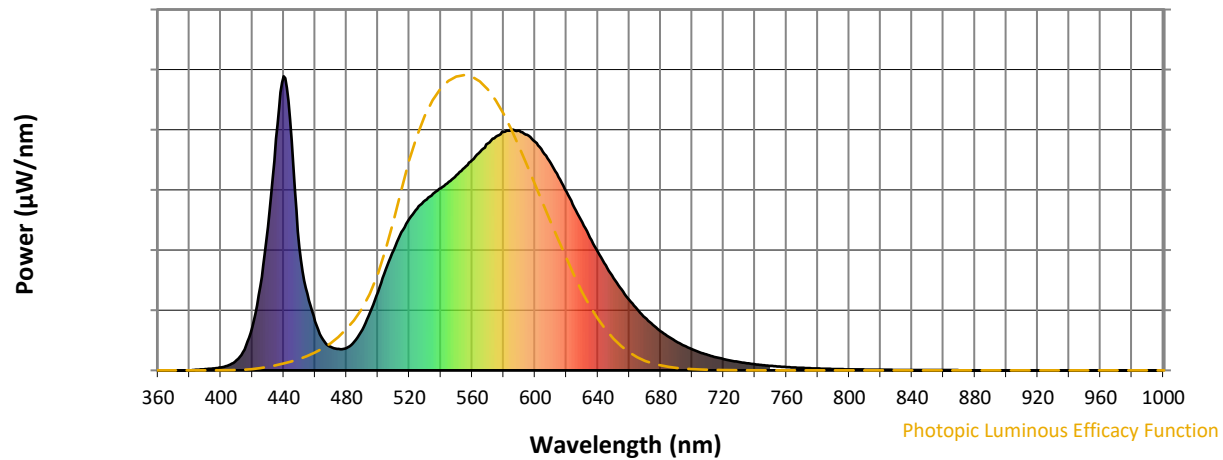
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

Photopic Flux vs. Wavelength

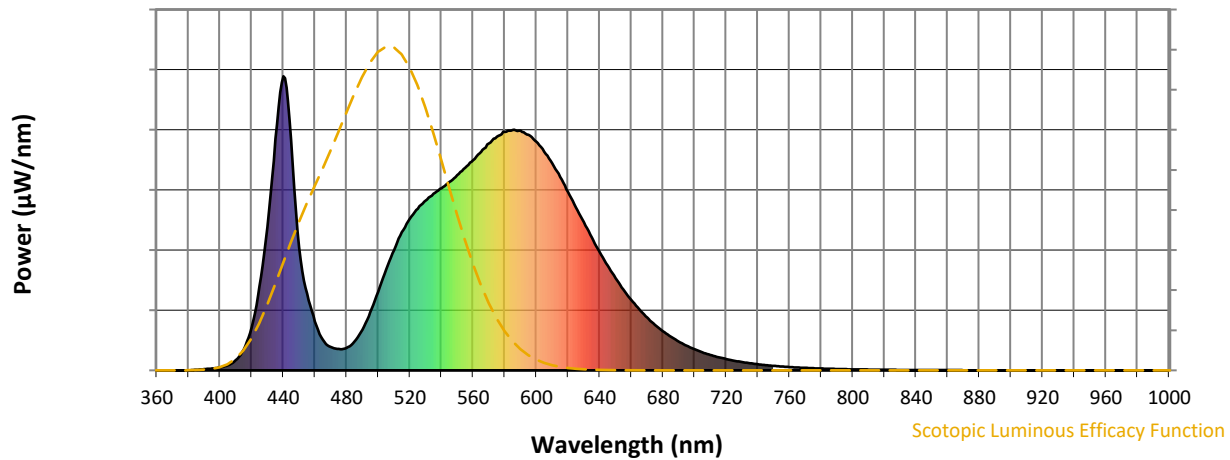


Photopic Lumens: NR

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



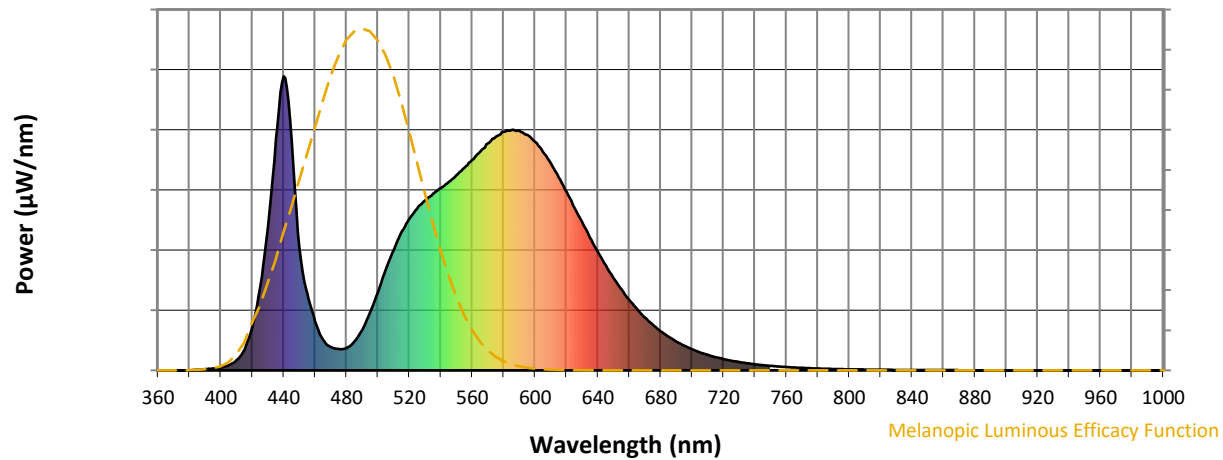
Scotopic Lumens: NR

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

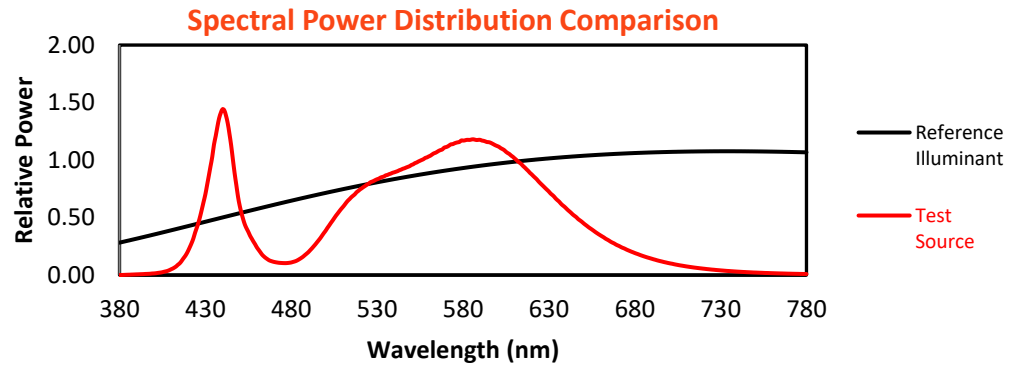
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630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

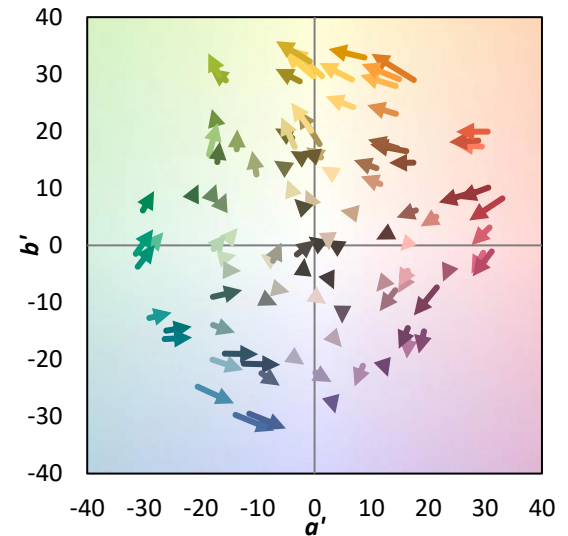
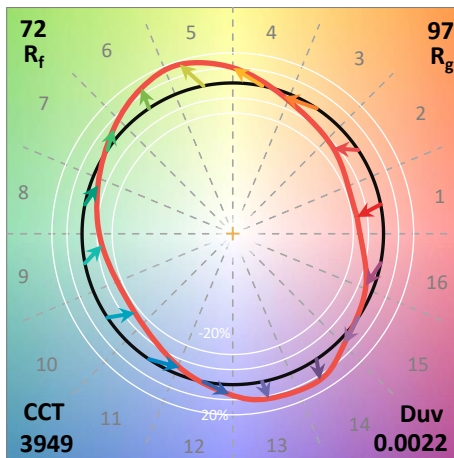
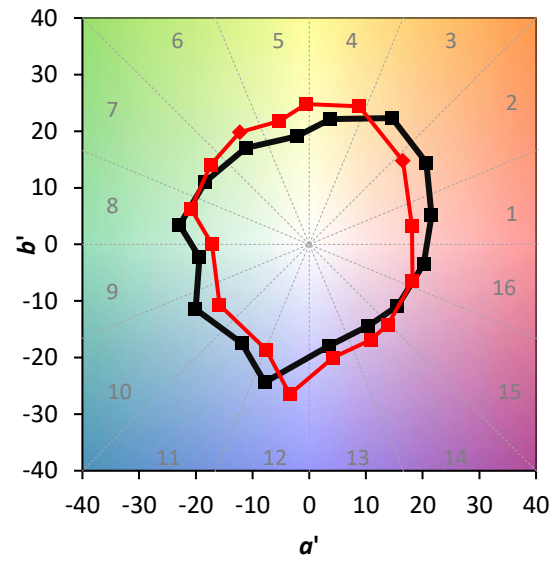
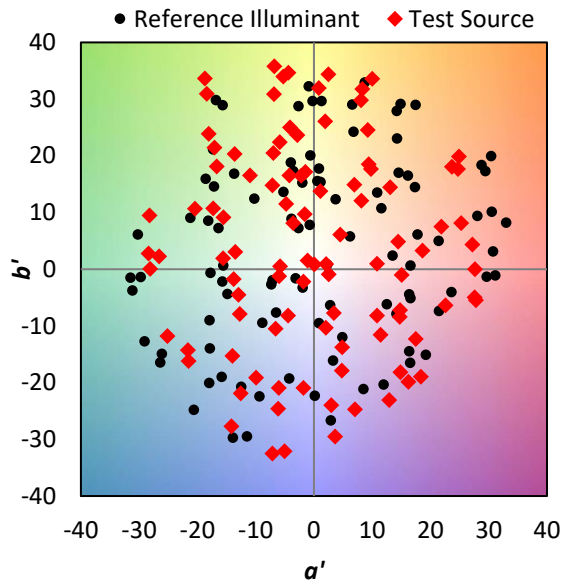
TM-30-18

Summary

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

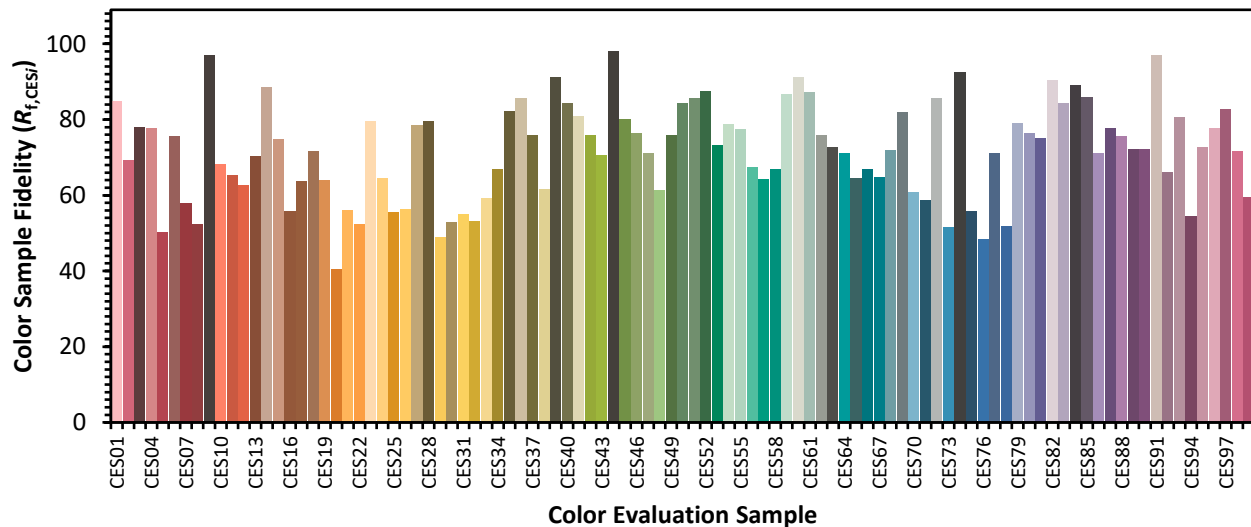


Color Vector Graphics

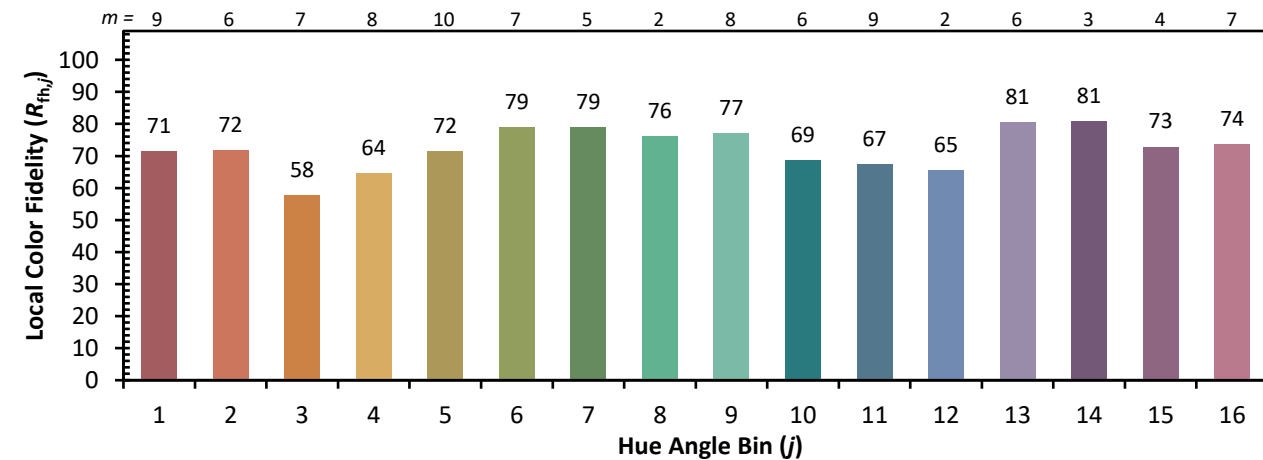
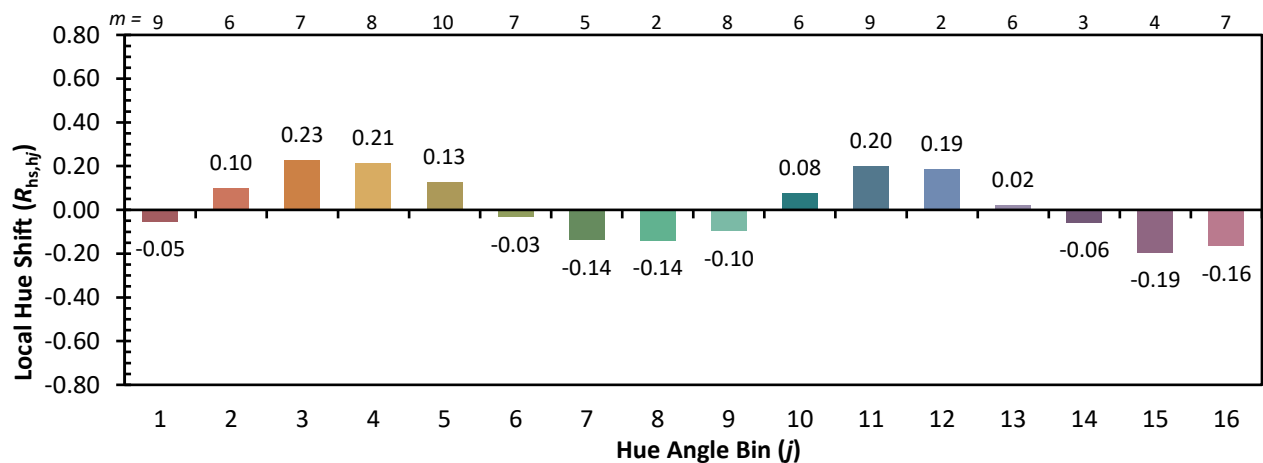
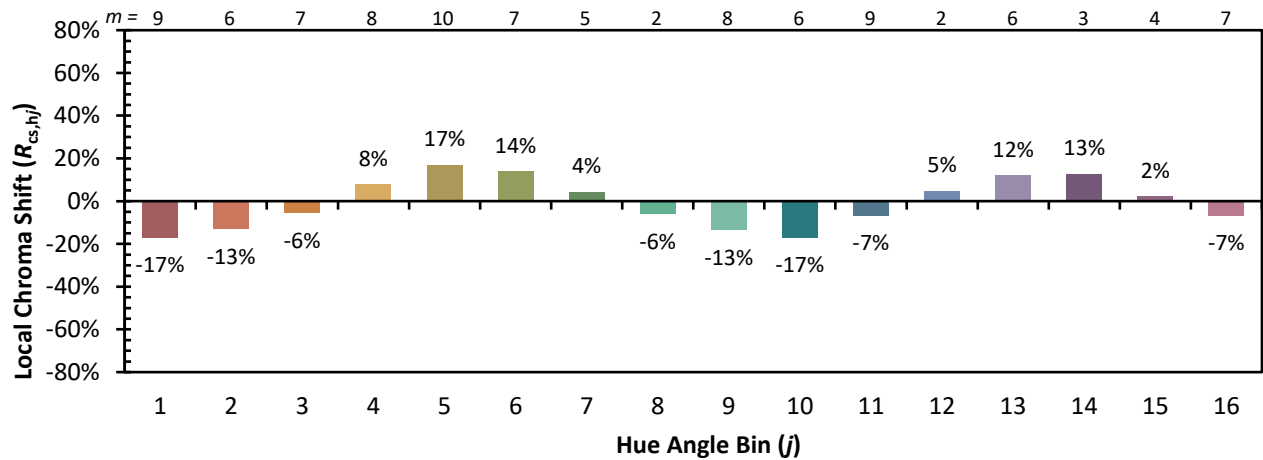


Individual Sample Fidelity Index ($R_{f,i}$)

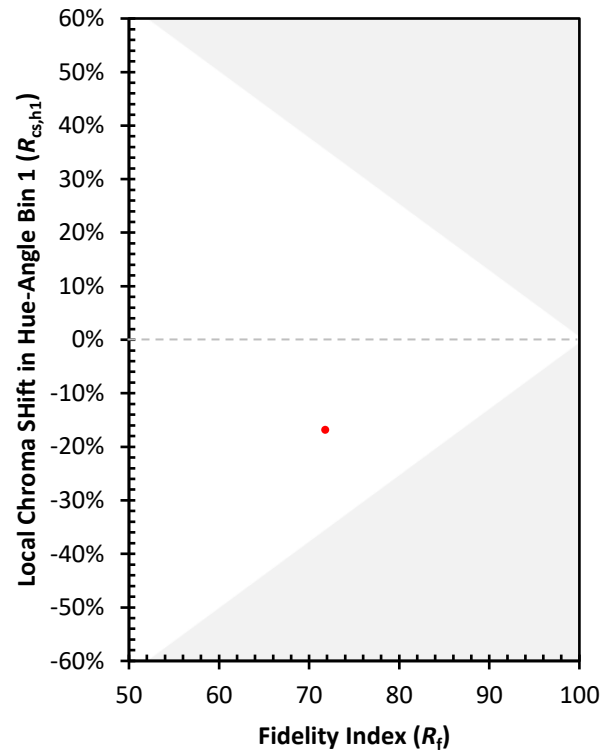
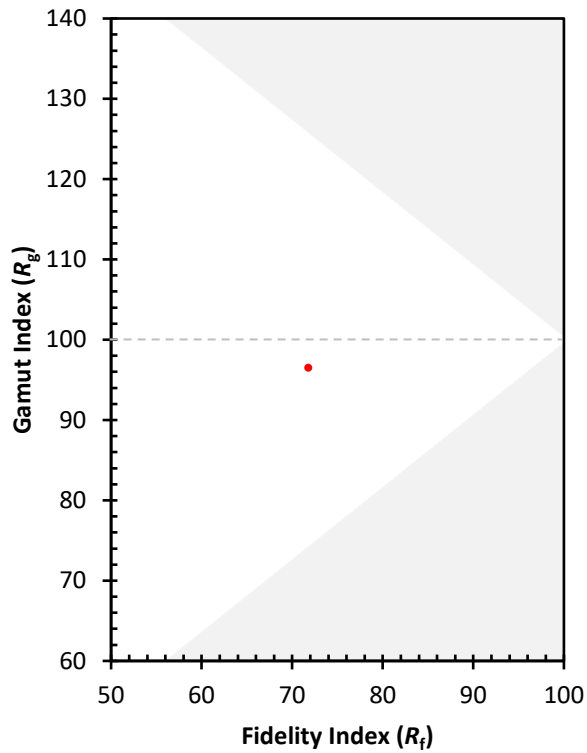
CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82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