

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: P1067973

Luminaire Tested: **NAV-SA3A-735-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067973
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA3A-735-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 3xLight Square PACKAGE
70CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8616 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 82
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



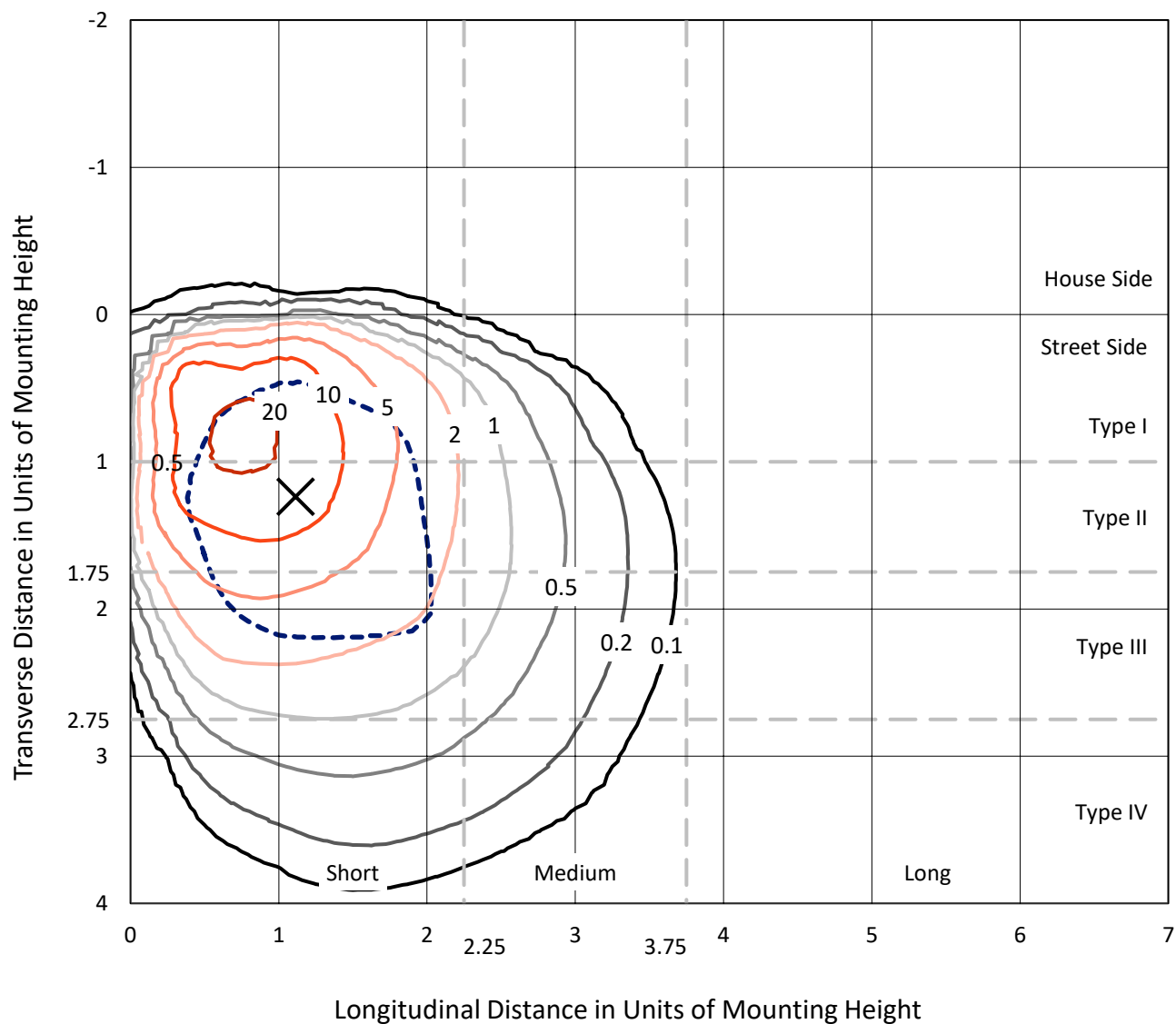
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

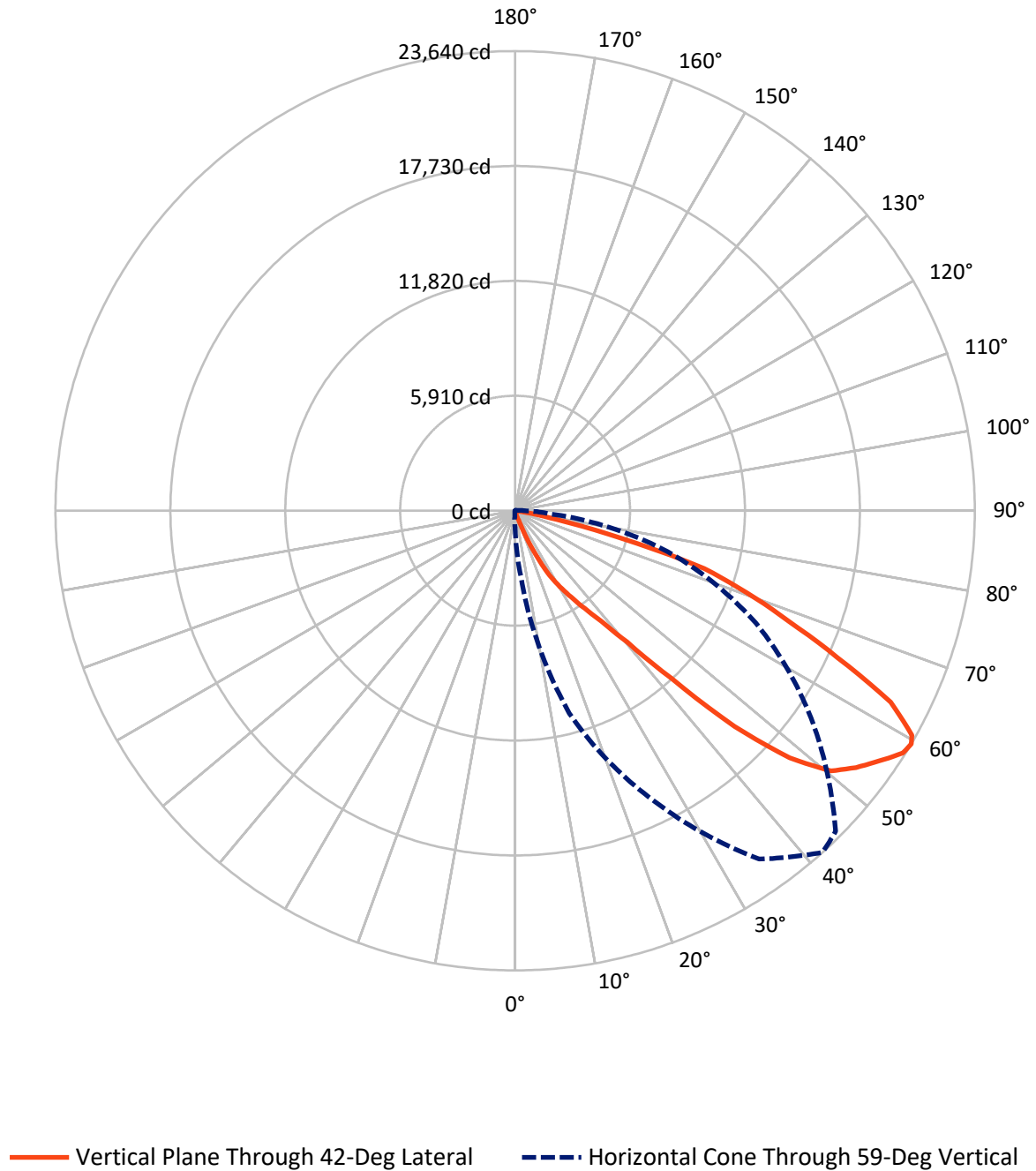


Based on 15 foot mounting height. Maximum calculated value = 25.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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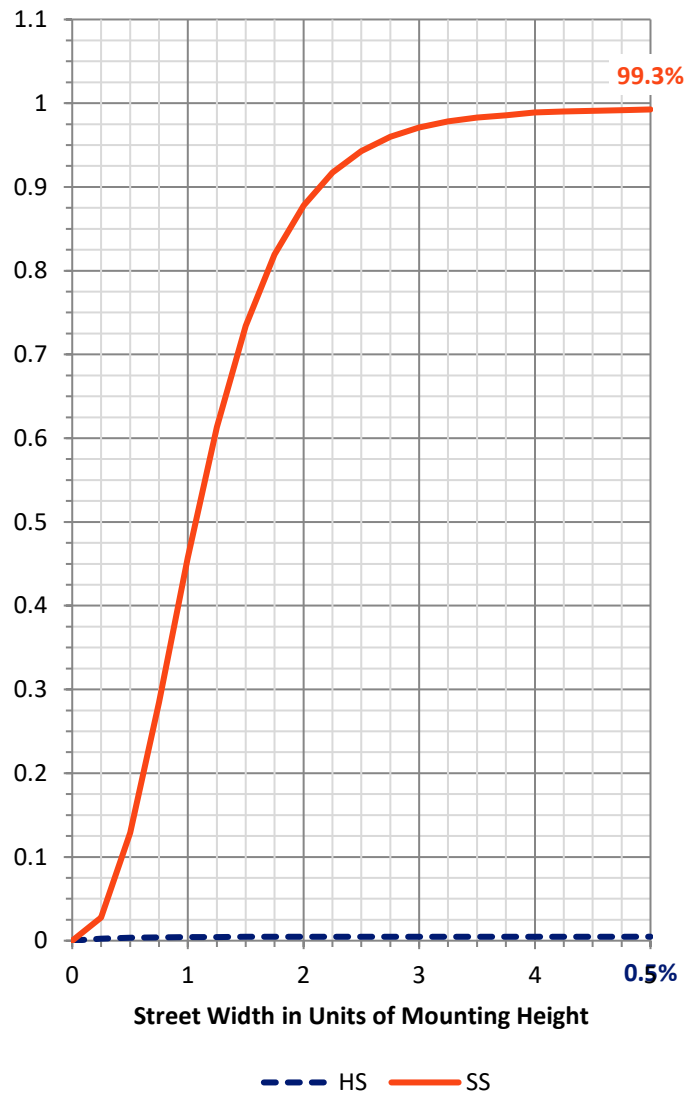
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	41.5	0.0	41.5
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	8574.5	0.0	8574.5
	% Fixture	99.5	0.0	99.5
Total	Lumens	8616.0	0.0	8616.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	0.0
10°-20°	12.6	0.1
20°-30°	160.7	1.9
30°-40°	541.8	6.3
40°-50°	1636.6	19.0
50°-60°	2889.0	33.5
60°-70°	2543.8	29.5
70°-80°	809.7	9.4
80°-90°	19.4	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°	8616.0	100.0
0°-180°	8616.0	100.0



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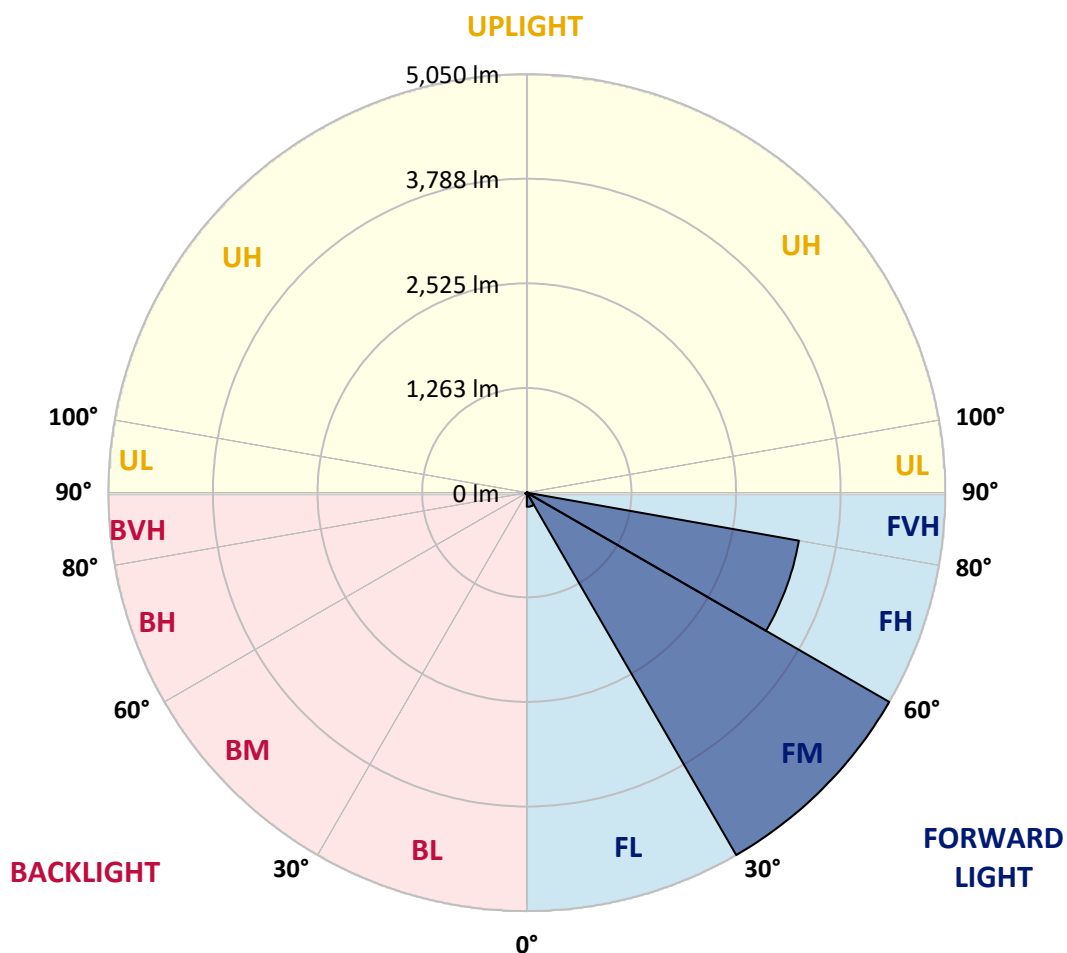
CATALOG NUMBER: NAV-SA3A-735-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	171.2	2.0			
FM	(30°-60°)	5050.4	58.6			
FH	(60°-80°)	3334.5	38.7			G2/5000
FVH	(80°-90°)	18.4	0.2			G1/100
BL	(0°-30°)	4.6	0.1	B0/110		
BM	(30°-60°)	17.0	0.2	B0/220		
BH	(60°-80°)	19.0	0.2	B0/110		G0/110
BVH	(80°-90°)	0.9	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°	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3
2.5°	37.8	37.8	35.1	32.4	29.7	27.0	27.0	27.0	24.3	24.3	21.6
5°	43.2	43.2	40.5	37.8	37.8	35.1	35.1	32.4	29.7	29.7	27.0
7.5°	45.9	45.9	45.9	45.9	43.2	43.2	43.2	40.5	37.8	35.1	32.4
10°	48.6	51.3	54.0	54.0	54.0	54.0	54.0	51.3	45.9	43.2	37.8
12.5°	54.0	56.7	62.1	67.5	67.5	70.2	67.5	64.8	59.4	51.3	43.2
15°	59.4	64.8	72.9	83.7	94.5	97.3	97.3	89.1	78.3	62.1	51.3
17.5°	67.5	75.6	97.3	132.4	170.2	199.9	199.9	178.3	124.3	81.0	59.4
20°	72.9	89.1	156.7	318.8	486.3	610.5	586.2	518.7	278.2	127.0	64.8
22.5°	81.0	113.5	332.3	837.4	1296.7	1523.6	1469.6	1115.7	624.0	226.9	78.3
25°	91.8	164.8	659.1	1569.5	2409.7	2655.5	2620.4	2082.8	1137.3	380.9	100.0
27.5°	113.5	243.1	1056.3	2379.9	3555.1	3765.8	3752.3	3049.9	1818.0	613.2	129.7
30°	143.2	353.9	1566.8	3233.6	4314.2	4527.6	4460.0	3757.7	2452.9	937.4	167.5
32.5°	178.3	494.4	2028.8	3863.0	5013.8	5294.8	5213.7	4373.6	2963.4	1212.9	248.5
35°	232.3	632.1	2485.3	4419.5	5821.5	6178.1	6043.1	5008.4	3403.8	1523.6	299.9
37.5°	259.3	713.2	2904.0	5024.6	6729.2	7215.5	7112.8	5810.7	3852.2	1920.7	367.4
40°	262.0	810.4	3338.9	5813.4	8012.4	8879.5	8695.8	7188.5	4686.9	2431.3	472.7
42.5°	270.1	956.3	3903.5	7158.7	10532.8	11778.2	11570.1	9722.4	6580.6	3455.1	670.0
45°	308.0	1231.8	5054.3	9673.8	13993.3	15819.5	15579.0	13253.1	9225.3	5381.2	1142.7
47.5°	440.3	1853.2	7072.3	12388.7	17532.2	18988.2	18928.8	16035.6	11621.5	7355.9	1936.9
50°	707.8	2844.6	9368.5	14671.4	19785.1	21035.9	20887.3	17197.2	12988.4	8703.9	2482.6
52.5°	945.5	3792.8	10811.0	15511.5	20457.8	21949.0	21768.0	17621.3	13347.7	9101.1	2633.9
55°	1004.9	4135.9	11240.6	15770.8	20903.5	22721.6	22459.5	17905.0	13393.6	8817.4	2382.6
57.5°	975.2	3811.7	10962.3	16024.8	21524.8	23515.8	23167.3	18458.7	13547.6	8336.6	1982.8
59°	923.9	3411.9	10789.4	16227.4	21867.9	23640.1	23313.2	18580.3	13650.2	8117.7	1739.7
60°	864.5	3141.7	10654.4	16359.7	21846.3	23445.5	23107.9	18523.6	13690.8	7928.6	1623.5
62.5°	667.2	2506.9	10459.9	16265.2	20482.1	21670.7	21478.9	17135.1	13096.4	7323.5	1280.5
65°	518.7	1918.0	9746.7	14506.6	17429.5	18229.1	18169.7	14509.3	11021.8	6313.2	923.9
67.5°	410.6	1399.3	8242.0	11748.4	14023.0	15160.3	15117.1	11778.2	8366.3	4824.7	664.5
70°	335.0	996.8	5651.4	8857.9	11216.3	12648.0	12585.9	9479.3	6199.7	3060.7	483.6
72.5°	283.6	637.5	3428.1	6677.9	9360.4	10178.9	9997.9	7647.7	4508.7	1666.8	383.6
75°	240.4	391.7	1699.2	4162.9	5575.7	5570.3	5389.3	4049.4	2420.5	815.8	305.3
77.5°	194.5	275.5	667.2	1142.7	1758.6	2177.3	2142.2	1434.4	724.0	237.7	189.1
80°	127.0	129.7	178.3	313.4	483.6	534.9	607.8	437.6	210.7	113.5	78.3
82.5°	56.7	62.1	81.0	102.7	102.7	94.5	83.7	62.1	45.9	37.8	18.9
85°	13.5	18.9	13.5	16.2	13.5	10.8	10.8	5.4	0.0	0.0	0.0
87.5°	2.7	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°	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3
2.5°	21.6	21.6	21.6	18.9	18.9	18.9	16.2	16.2	16.2	13.5	13.5
5°	27.0	24.3	21.6	21.6	18.9	18.9	16.2	13.5	13.5	13.5	10.8
7.5°	29.7	27.0	24.3	21.6	18.9	16.2	16.2	13.5	10.8	10.8	10.8
10°	35.1	32.4	27.0	21.6	18.9	16.2	13.5	13.5	10.8	8.1	8.1
12.5°	40.5	35.1	29.7	24.3	18.9	16.2	13.5	13.5	10.8	8.1	5.4
15°	45.9	40.5	32.4	24.3	18.9	16.2	13.5	13.5	8.1	5.4	2.7
17.5°	51.3	43.2	32.4	27.0	18.9	16.2	13.5	10.8	5.4	2.7	0.0
20°	54.0	45.9	35.1	27.0	18.9	16.2	13.5	8.1	2.7	0.0	0.0
22.5°	59.4	51.3	37.8	27.0	18.9	13.5	8.1	2.7	0.0	0.0	0.0
25°	70.2	54.0	37.8	27.0	18.9	13.5	5.4	0.0	0.0	0.0	0.0
27.5°	78.3	59.4	37.8	27.0	18.9	10.8	2.7	0.0	0.0	0.0	0.0
30°	91.8	64.8	40.5	27.0	18.9	8.1	2.7	0.0	0.0	0.0	0.0
32.5°	113.5	70.2	40.5	27.0	16.2	8.1	0.0	0.0	0.0	0.0	0.0
35°	137.8	81.0	40.5	27.0	16.2	8.1	0.0	0.0	0.0	0.0	0.0
37.5°	140.5	86.4	40.5	27.0	16.2	5.4	0.0	0.0	0.0	0.0	0.0
40°	145.9	81.0	43.2	27.0	16.2	5.4	0.0	0.0	0.0	0.0	0.0
42.5°	167.5	75.6	45.9	27.0	16.2	5.4	0.0	0.0	0.0	0.0	0.0
45°	248.5	78.3	45.9	29.7	16.2	8.1	0.0	0.0	0.0	0.0	0.0
47.5°	432.2	81.0	43.2	29.7	16.2	8.1	0.0	0.0	0.0	0.0	0.0
50°	553.8	94.5	43.2	32.4	18.9	5.4	0.0	0.0	0.0	0.0	0.0
52.5°	588.9	110.8	43.2	35.1	24.3	2.7	0.0	0.0	0.0	0.0	0.0
55°	572.7	129.7	45.9	37.8	29.7	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	529.5	140.5	48.6	40.5	32.4	0.0	0.0	0.0	0.0	0.0	0.0
59°	483.6	148.6	56.7	43.2	32.4	0.0	0.0	0.0	0.0	0.0	0.0
60°	445.7	156.7	59.4	45.9	32.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	359.3	167.5	64.8	54.0	27.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	313.4	175.6	67.5	59.4	24.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	286.3	181.0	72.9	62.1	21.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	264.7	178.3	78.3	59.4	18.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	240.4	170.2	94.5	54.0	16.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	216.1	154.0	102.7	48.6	10.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	156.7	129.7	94.5	43.2	5.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	67.5	70.2	67.5	32.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.5	16.2	13.5	8.1	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°	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3
2.5°	13.5	13.5	13.5	13.5	16.2	16.2	21.6	27.0	32.4	35.1	35.1
5°	10.8	10.8	10.8	10.8	10.8	13.5	16.2	21.6	29.7	32.4	32.4
7.5°	8.1	8.1	8.1	8.1	8.1	8.1	13.5	18.9	27.0	29.7	32.4
10°	8.1	5.4	5.4	2.7	2.7	5.4	8.1	16.2	24.3	27.0	29.7
12.5°	5.4	2.7	2.7	0.0	0.0	2.7	5.4	13.5	21.6	24.3	27.0
15°	2.7	0.0	0.0	0.0	0.0	0.0	2.7	10.8	18.9	21.6	27.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	16.2	21.6	24.3
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	13.5	18.9	21.6
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	10.8	16.2	18.9
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	10.8	13.5
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	8.1	10.8
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	8.1	10.8
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.4	8.1
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.4	8.1
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.4	5.4
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.4
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.4
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.4
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.4
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.4
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7
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°	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3
2.5°	37.8	37.8	35.1	32.4	32.4	32.4	35.1	37.8	37.8	37.8
5°	35.1	35.1	32.4	32.4	32.4	32.4	35.1	40.5	43.2	43.2
7.5°	35.1	35.1	32.4	32.4	32.4	32.4	35.1	40.5	43.2	45.9
10°	32.4	32.4	32.4	32.4	29.7	32.4	35.1	40.5	48.6	48.6
12.5°	32.4	32.4	32.4	32.4	29.7	32.4	37.8	43.2	51.3	54.0
15°	32.4	32.4	32.4	29.7	29.7	32.4	37.8	45.9	54.0	59.4
17.5°	29.7	32.4	32.4	29.7	29.7	32.4	37.8	45.9	59.4	67.5
20°	27.0	29.7	32.4	29.7	29.7	29.7	37.8	45.9	62.1	72.9
22.5°	24.3	27.0	29.7	29.7	27.0	29.7	37.8	48.6	67.5	81.0
25°	21.6	24.3	24.3	27.0	27.0	29.7	37.8	48.6	70.2	91.8
27.5°	16.2	18.9	21.6	24.3	24.3	29.7	37.8	51.3	75.6	113.5
30°	13.5	16.2	18.9	21.6	24.3	29.7	37.8	51.3	81.0	143.2
32.5°	13.5	16.2	18.9	21.6	24.3	27.0	37.8	54.0	89.1	178.3
35°	10.8	13.5	16.2	21.6	21.6	27.0	37.8	54.0	97.3	232.3
37.5°	10.8	13.5	16.2	21.6	21.6	27.0	37.8	54.0	118.9	259.3
40°	8.1	10.8	13.5	21.6	21.6	27.0	40.5	56.7	121.6	262.0
42.5°	8.1	10.8	13.5	18.9	21.6	27.0	40.5	56.7	113.5	270.1
45°	8.1	10.8	13.5	21.6	24.3	29.7	40.5	59.4	110.8	308.0
47.5°	8.1	10.8	13.5	21.6	27.0	29.7	40.5	59.4	113.5	440.3
50°	8.1	10.8	13.5	21.6	29.7	29.7	40.5	59.4	124.3	707.8
52.5°	5.4	8.1	10.8	18.9	24.3	32.4	43.2	56.7	132.4	945.5
55°	5.4	5.4	8.1	16.2	21.6	35.1	45.9	56.7	154.0	1004.9
57.5°	5.4	5.4	8.1	13.5	18.9	37.8	48.6	56.7	178.3	975.2
59°	5.4	5.4	5.4	13.5	16.2	37.8	48.6	59.4	181.0	923.9
60°	5.4	5.4	5.4	10.8	16.2	37.8	51.3	62.1	183.7	864.5
62.5°	2.7	2.7	2.7	10.8	13.5	37.8	56.7	75.6	189.1	667.2
65°	5.4	5.4	2.7	8.1	13.5	32.4	64.8	81.0	191.8	518.7
67.5°	5.4	5.4	5.4	10.8	13.5	32.4	67.5	83.7	191.8	410.6
70°	5.4	5.4	5.4	10.8	16.2	32.4	67.5	86.4	189.1	335.0
72.5°	5.4	5.4	5.4	10.8	16.2	29.7	62.1	89.1	181.0	283.6
75°	5.4	5.4	5.4	8.1	13.5	27.0	59.4	97.3	164.8	240.4
77.5°	5.4	5.4	5.4	5.4	10.8	21.6	54.0	108.1	145.9	194.5
80°	8.1	5.4	5.4	5.4	8.1	18.9	51.3	105.4	121.6	127.0
82.5°	8.1	5.4	5.4	2.7	5.4	13.5	40.5	81.0	62.1	56.7
85°	5.4	5.4	5.4	2.7	2.7	8.1	18.9	24.3	18.9	13.5
87.5°	5.4	5.4	5.4	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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: SP1-2407-184-5

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-735-U-5WQ

Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

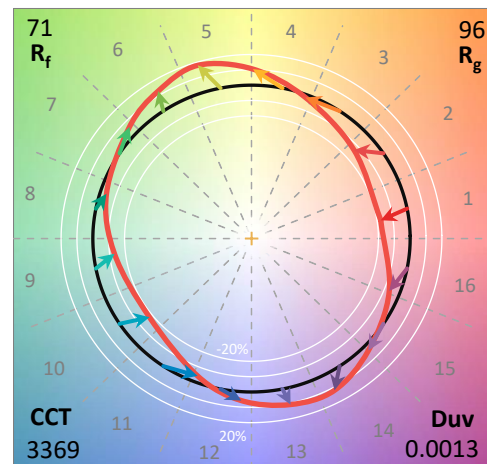
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-5
 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-735-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K): 3369
 CIE u' : 0.2386
 CIE v' : 0.5156
 Duv: 0.0013
 CIE x: 0.4143
 CIE y: 0.3980
 CIE z: 0.1877
 Peak Wavelength (nm): 590
 Dominant Wavelength (nm): 580
 Purity: 43.80166
 R_f: 71.4
 R_g: 96

CRI (Ra): 70.1
 R1: 66.6
 R2: 77.6
 R3: 88.5
 R4: 69.5
 R5: 66.4
 R6: 69.6
 R7: 77.5
 R8: 44.9
 R9: -40.2
 R10: 49.1
 R11: 66.3
 R12: 45.7
 R13: 68.0
 R14: 93.4
 R15: 57.6



Test Conditions

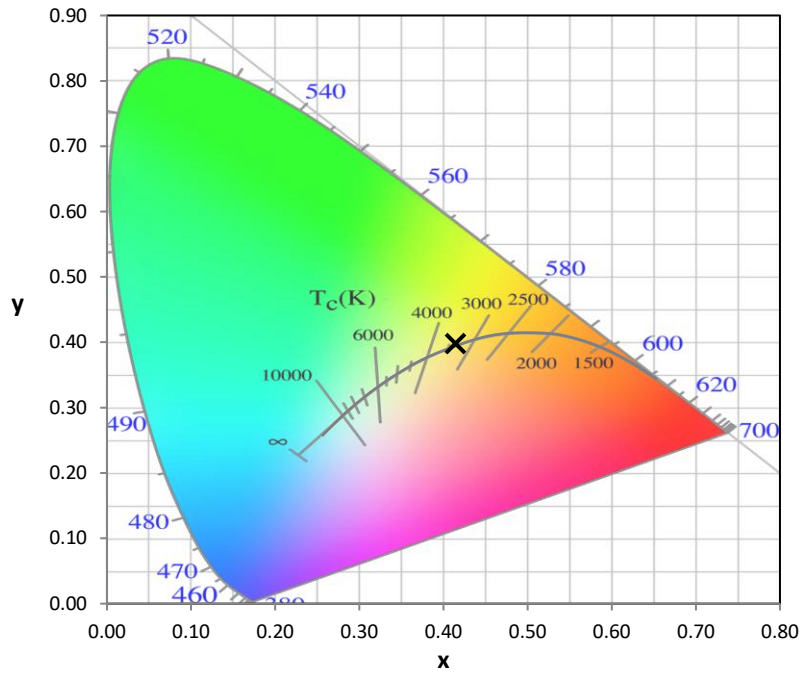
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-5

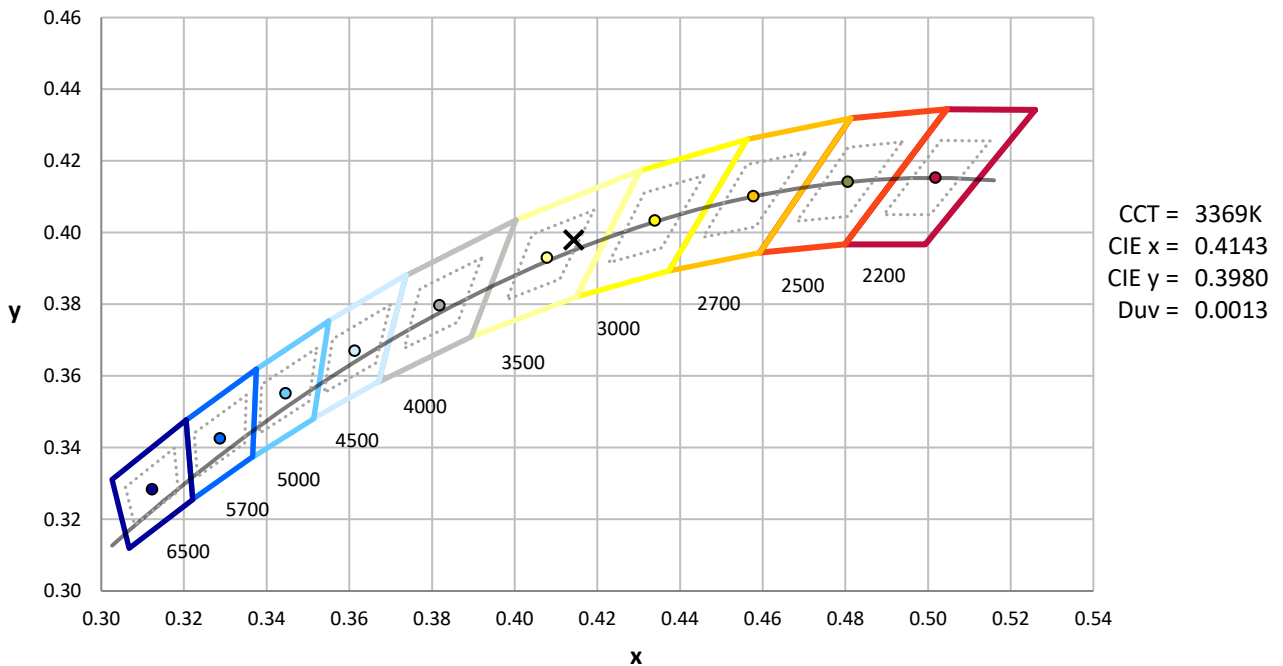
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



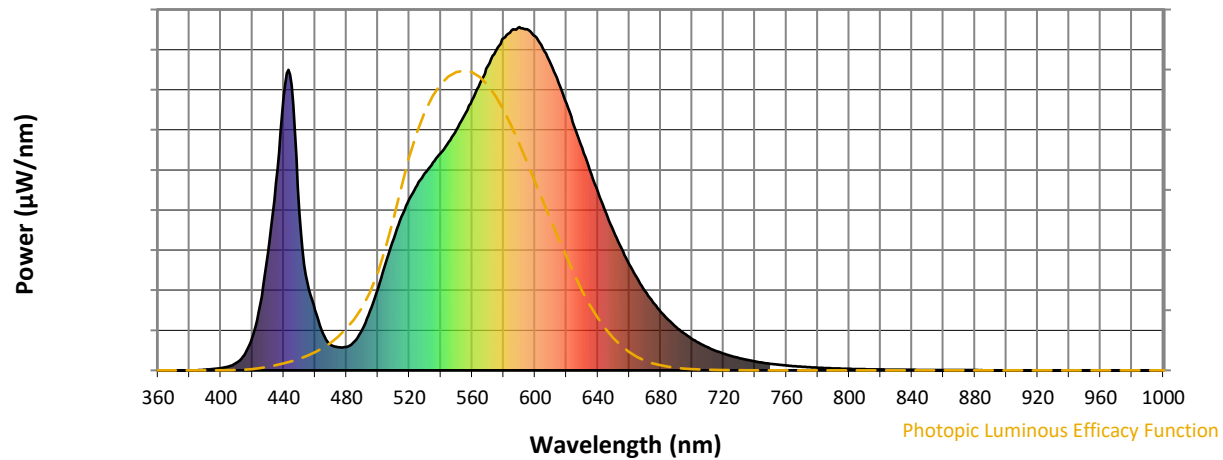
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

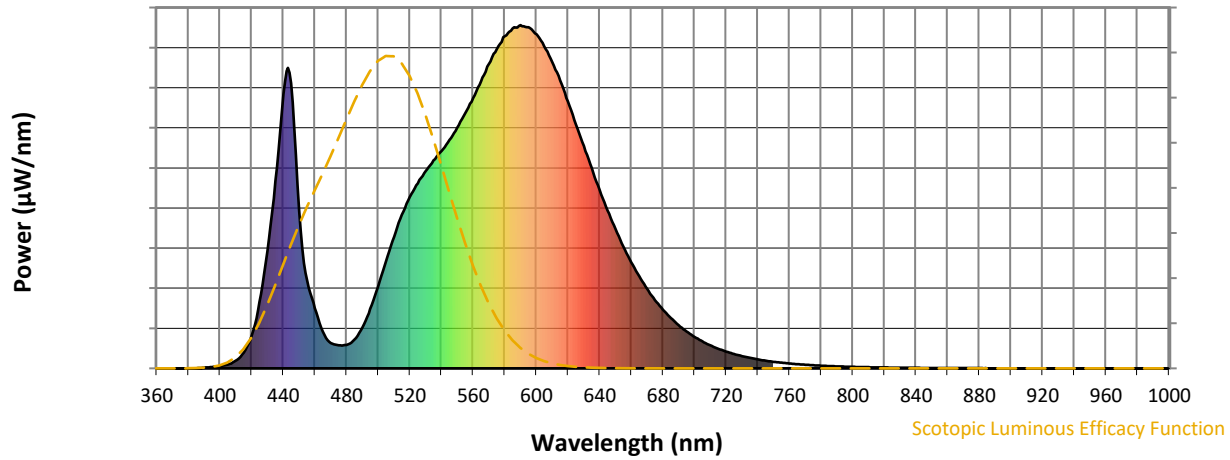


Photopic Lumens: NR

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

Scotopic Flux vs. Wavelength



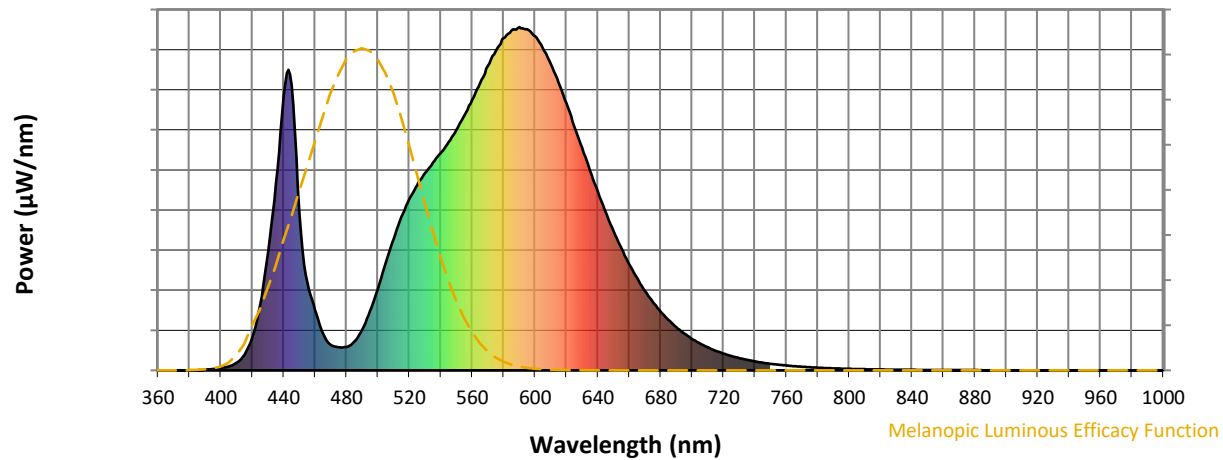
Scotopic Lumens: NR

S/P: 1.29

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.36

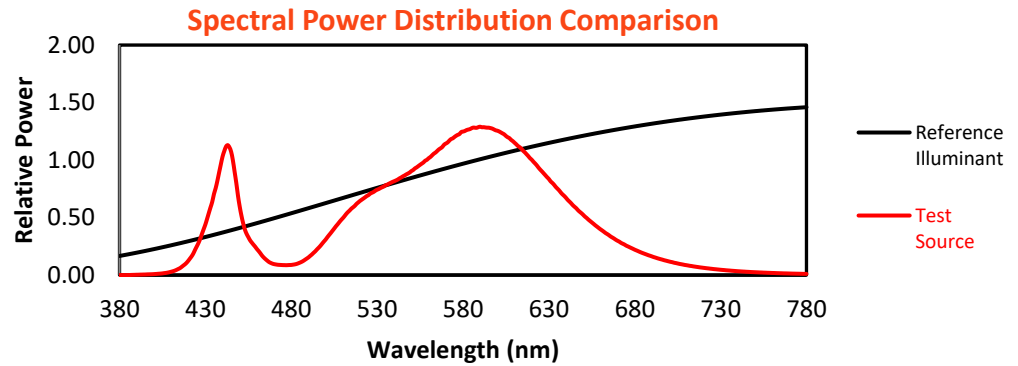
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

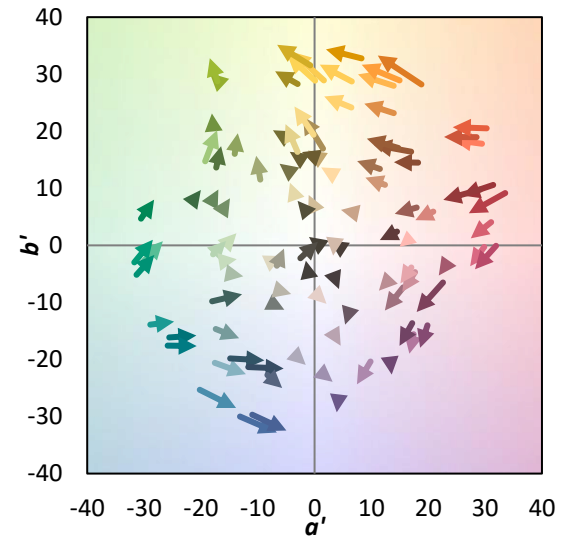
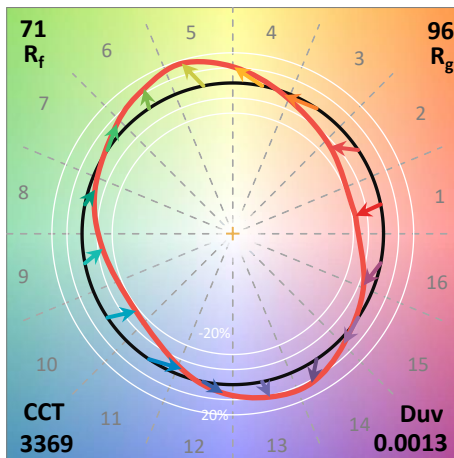
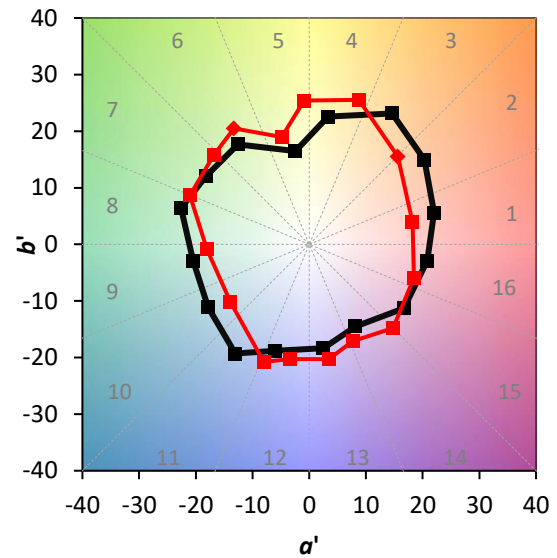
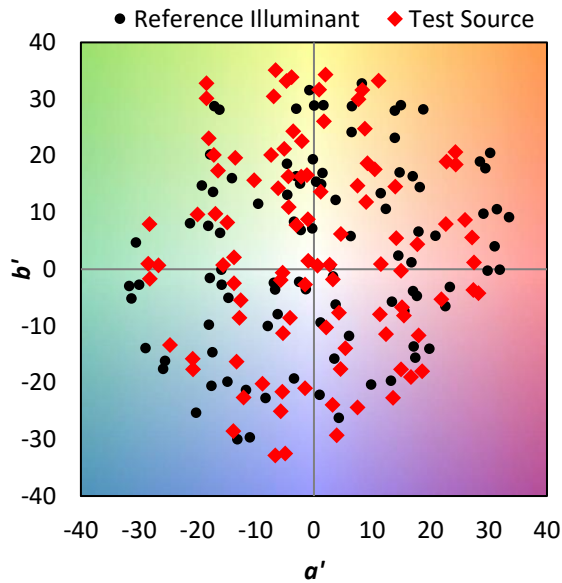
TM-30-18

Summary

$R_f = 71.4$
 $R_g = 96$
 $CIE R_a = 70.1$
 $R_g = -40.2$

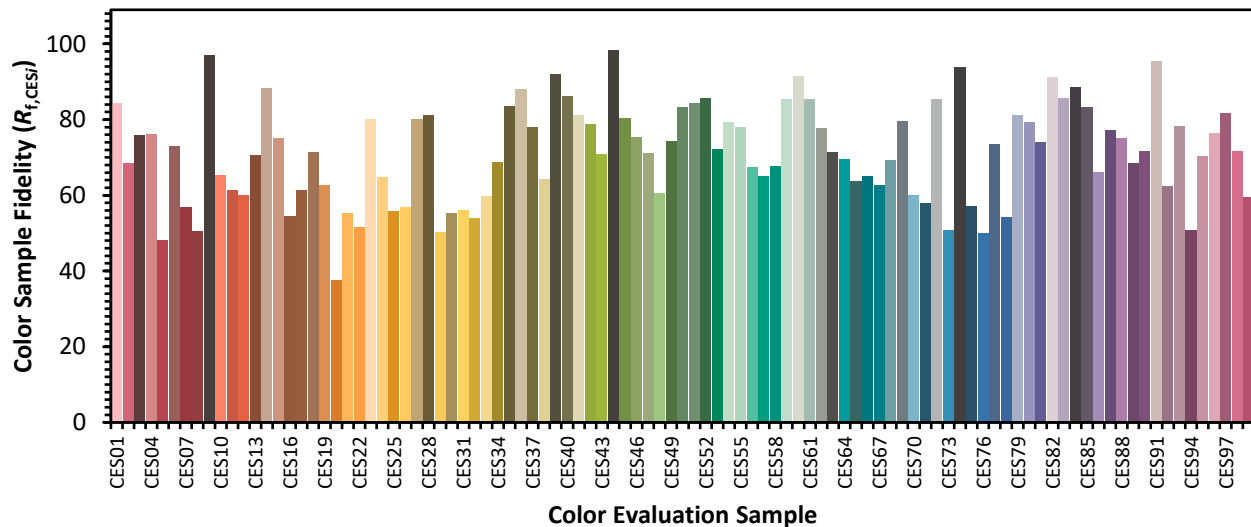


Color Vector Graphics

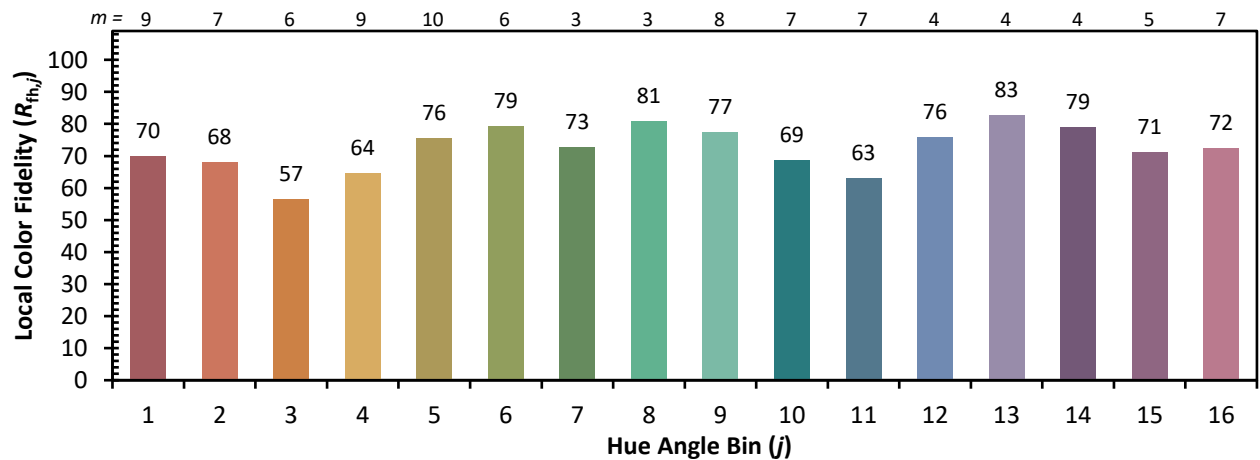
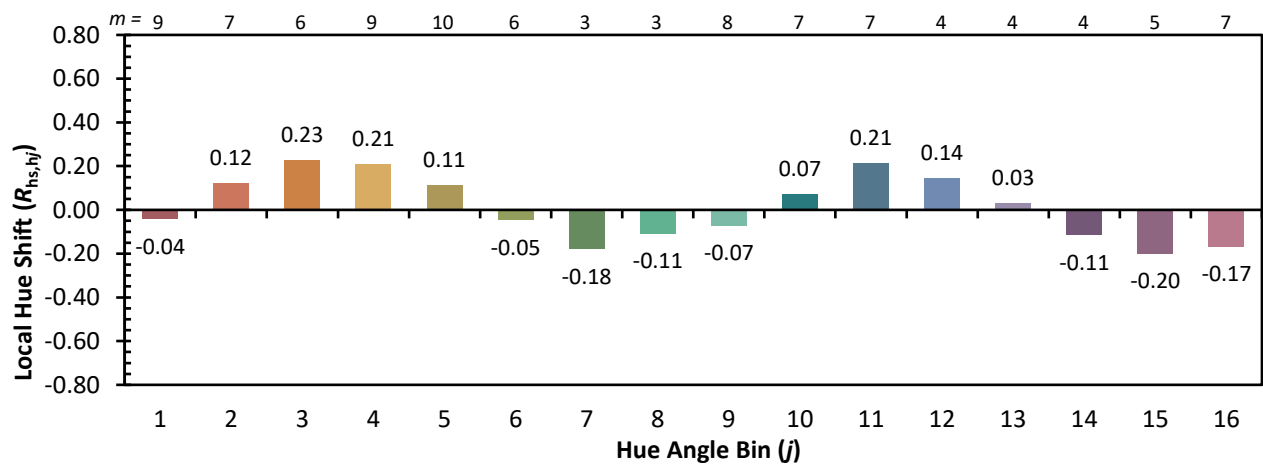
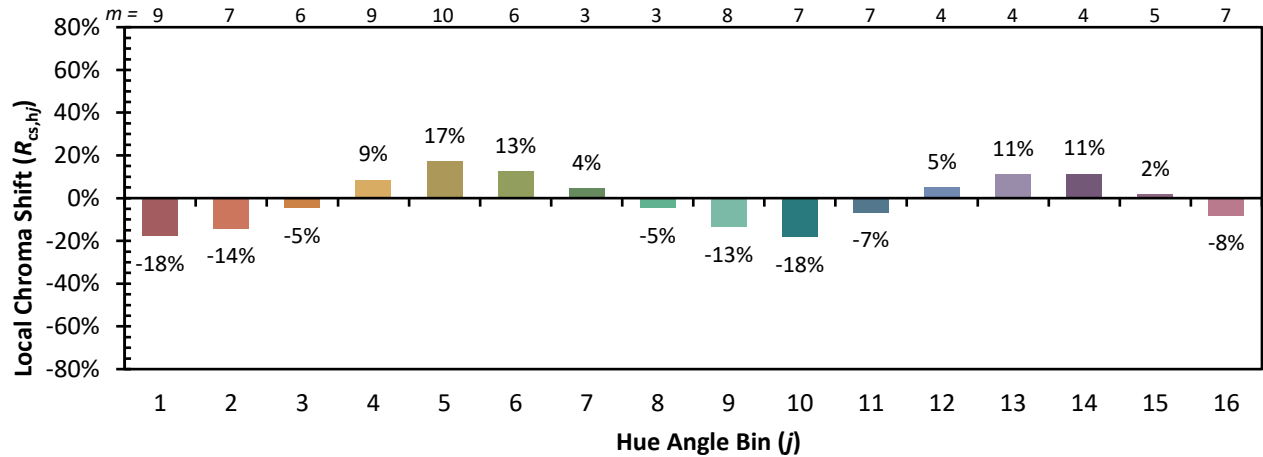


Individual Sample Fidelity Index ($R_{f,i}$)

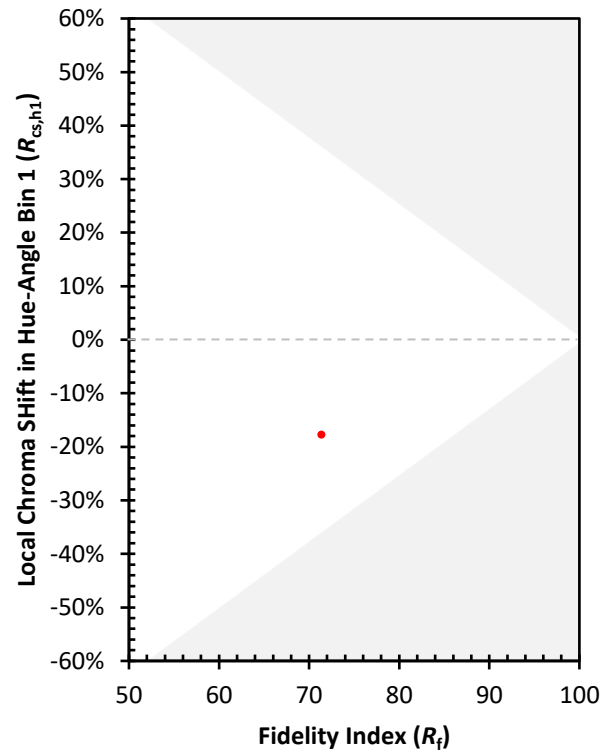
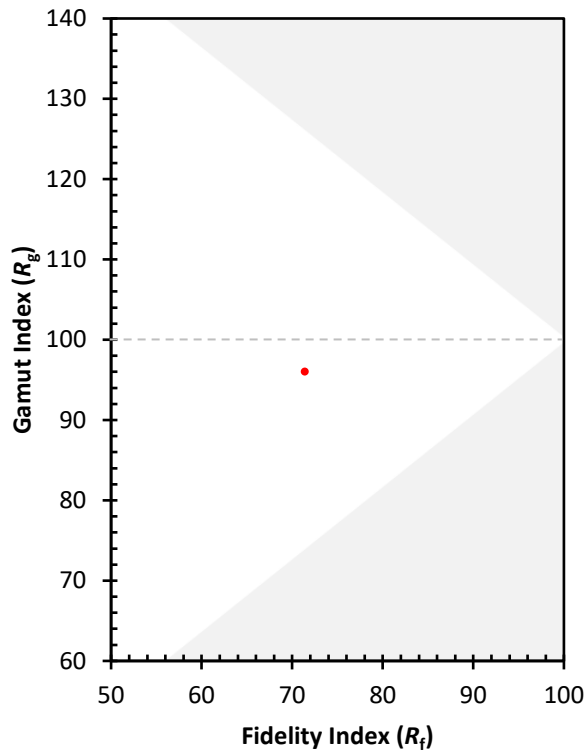
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82 = 91
CES08 = 39	CES33 = 60	CES58 = 68	CES83 = 86
CES09 = 29	CES34 = 69	CES59 = 85	CES84 = 89
CES10 = 75	CES35 = 83	CES60 = 91	CES85 = 83
CES11 = 58	CES36 = 88	CES61 = 85	CES86 = 66
CES12 = 64	CES37 = 78	CES62 = 78	CES87 = 77
CES13 = 43	CES38 = 64	CES63 = 71	CES88 = 75
CES14 = 74	CES39 = 92	CES64 = 70	CES89 = 68
CES15 = 71	CES40 = 86	CES65 = 64	CES90 = 72
CES16 = 47	CES41 = 81	CES66 = 65	CES91 = 95
CES17 = 50	CES42 = 79	CES67 = 63	CES92 = 62
CES18 = 56	CES43 = 71	CES68 = 69	CES93 = 78
CES19 = 72	CES44 = 98	CES69 = 80	CES94 = 51
CES20 = 65	CES45 = 80	CES70 = 60	CES95 = 70
CES21 = 87	CES46 = 75	CES71 = 58	CES96 = 76
CES22 = 79	CES47 = 71	CES72 = 85	CES97 = 82
CES23 = 92	CES48 = 61	CES73 = 51	CES98 = 72
CES24 = 91	CES49 = 74	CES74 = 94	CES99 = 60
CES25 = 72	CES50 = 83	CES75 = 57	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)