

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: P1067951

Luminaire Tested: **NAV-SA3C-730-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067951
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA3C-730-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 3xLight Square PACKAGE
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13044.7 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 140.4
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



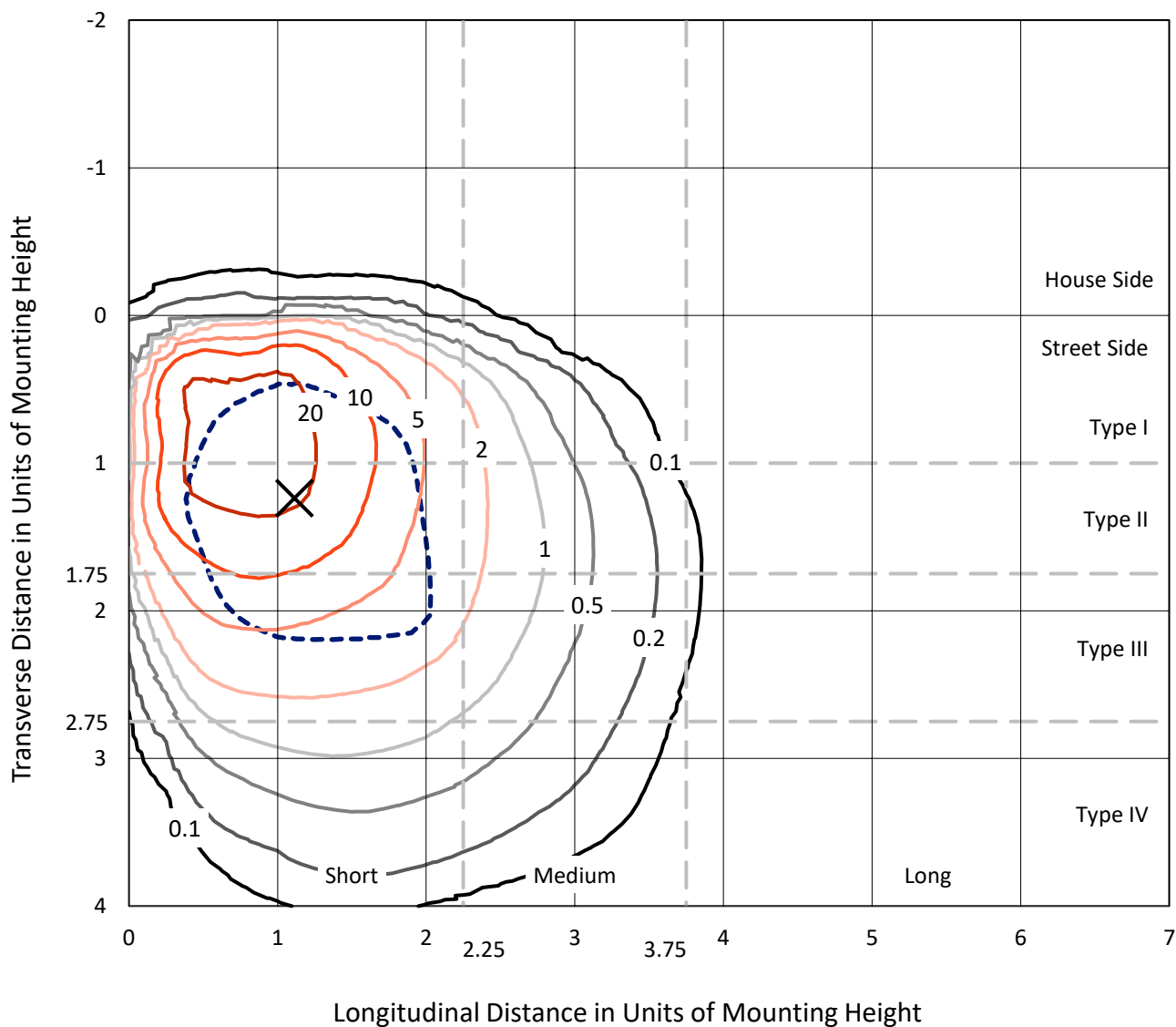
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

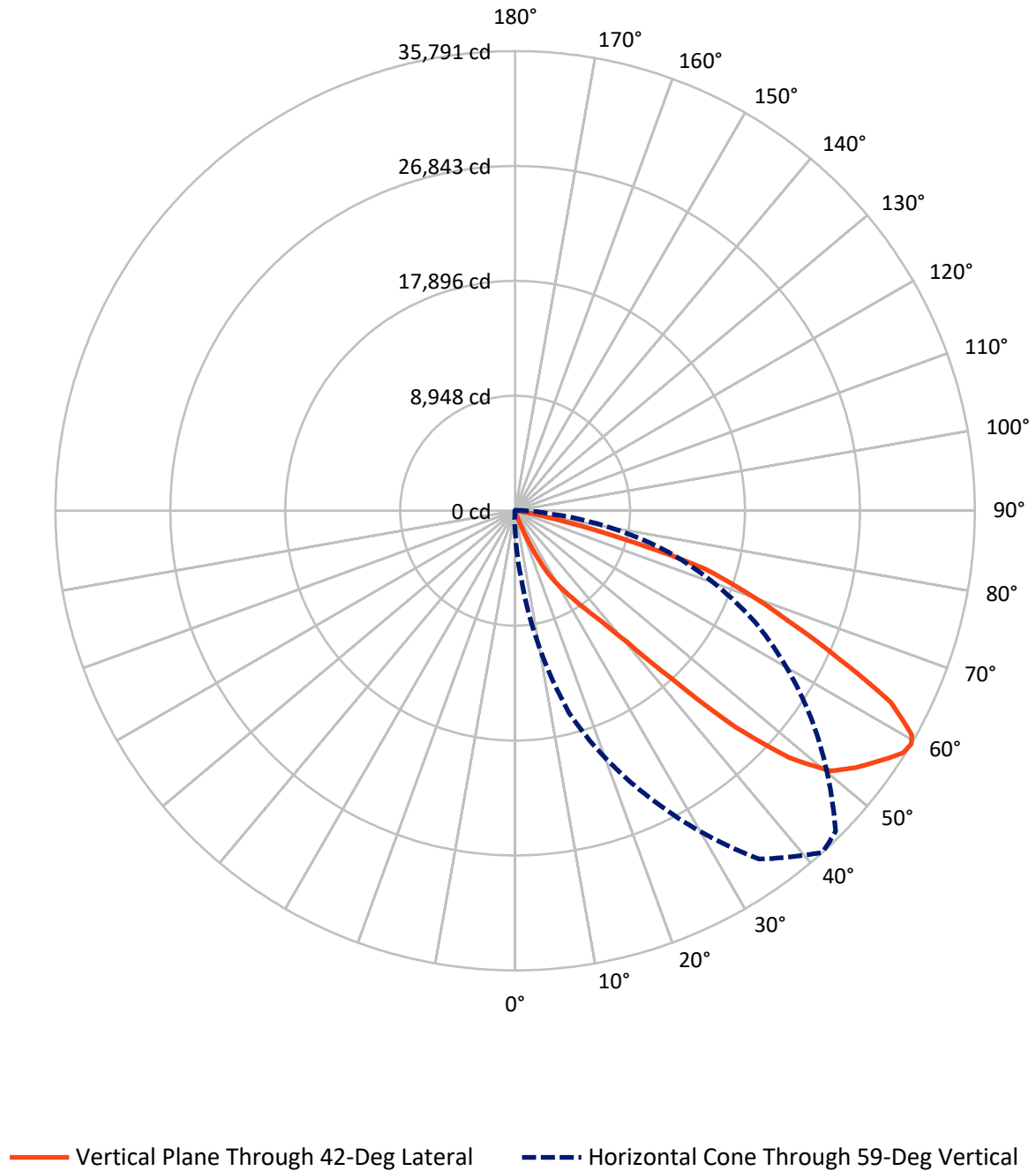
--- 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 38.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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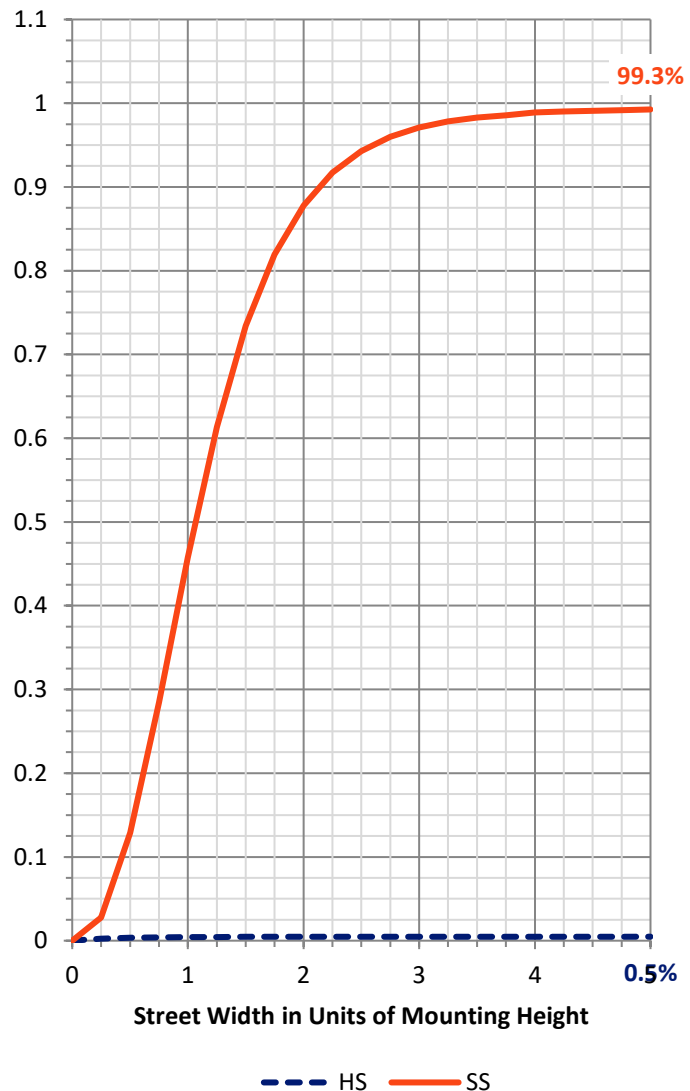
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	62.8	0.0	62.8
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	12981.8	0.0	12981.8
	% Fixture	99.5	0.0	99.5
Total	Lumens	13044.7	0.0	13044.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.8	0.0
10°-20°	19.0	0.1
20°-30°	243.3	1.9
30°-40°	820.3	6.3
40°-50°	2477.8	19.0
50°-60°	4373.9	33.5
60°-70°	3851.3	29.5
70°-80°	1225.9	9.4
80°-90°	29.3	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°	13044.7	100.0
0°-180°	13044.7	100.0



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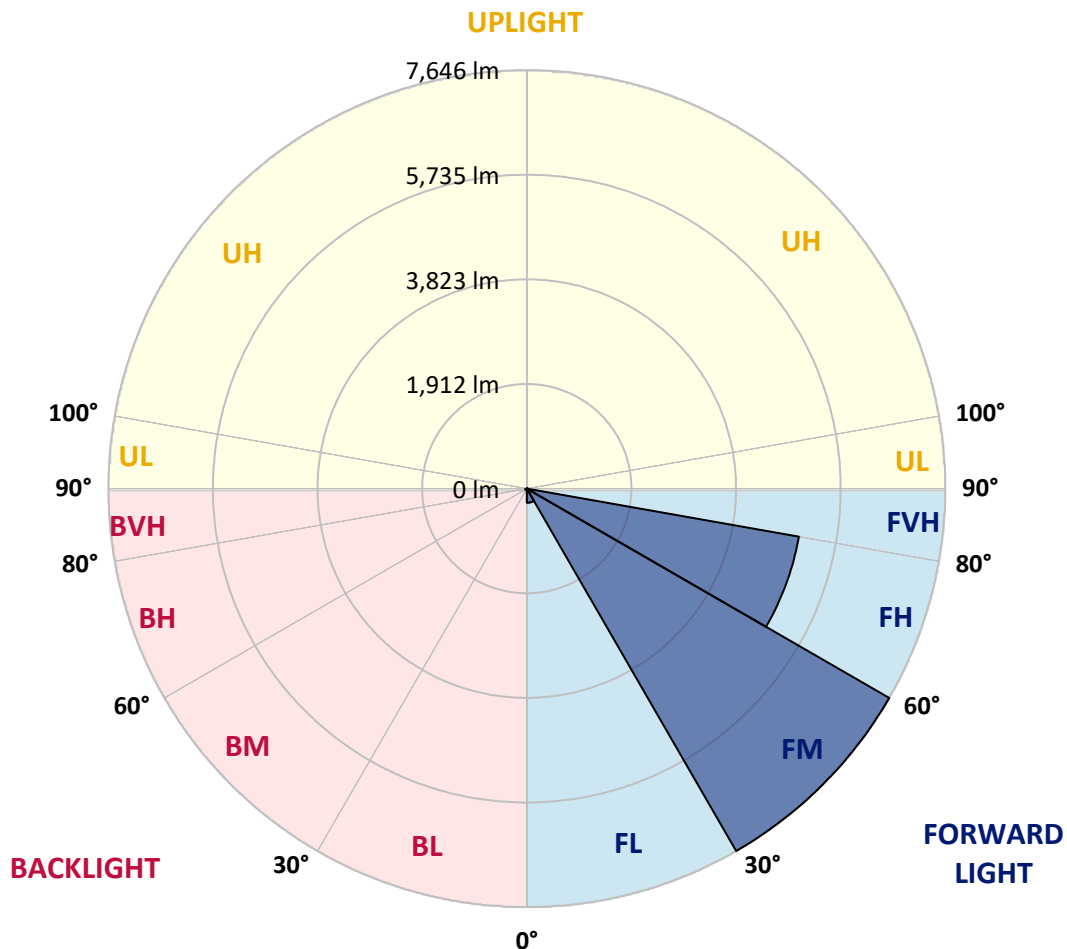
CATALOG NUMBER: NAV-SA3C-730-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	259.2	2.0			
FM	(30°-60°)	7646.3	58.6			
FH	(60°-80°)	5048.4	38.7			G3/7500
FVH	(80°-90°)	27.9	0.2			G1/100
BL	(0°-30°)	7.0	0.1	B0/110		
BM	(30°-60°)	25.7	0.2	B0/220		
BH	(60°-80°)	28.7	0.2	B0/110		G0/110
BVH	(80°-90°)	1.4	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8
2.5°	57.3	57.3	53.2	49.1	45.0	40.9	40.9	40.9	36.8	36.8	32.7
5°	65.4	65.4	61.3	57.3	57.3	53.2	53.2	49.1	45.0	45.0	40.9
7.5°	69.5	69.5	69.5	69.5	65.4	65.4	65.4	61.3	57.3	53.2	49.1
10°	73.6	77.7	81.8	81.8	81.8	81.8	81.8	77.7	69.5	65.4	57.3
12.5°	81.8	85.9	94.1	102.2	102.2	106.3	102.2	98.2	90.0	77.7	65.4
15°	90.0	98.2	110.4	126.8	143.1	147.2	147.2	135.0	118.6	94.1	77.7
17.5°	102.2	114.5	147.2	200.4	257.7	302.7	302.7	269.9	188.1	122.7	90.0
20°	110.4	135.0	237.2	482.6	736.2	924.3	887.5	785.3	421.3	192.2	98.2
22.5°	122.7	171.8	503.1	1267.9	1963.2	2306.7	2224.9	1689.1	944.8	343.6	118.6
25°	139.1	249.5	997.9	2376.3	3648.2	4020.4	3967.2	3153.3	1721.9	576.7	151.3
27.5°	171.8	368.1	1599.2	3603.2	5382.4	5701.4	5680.9	4617.5	2752.5	928.4	196.3
30°	216.8	535.8	2372.2	4895.7	6531.6	6854.7	6752.5	5689.1	3713.7	1419.2	253.6
32.5°	269.9	748.5	3071.5	5848.6	7590.9	8016.3	7893.6	6621.6	4486.7	1836.4	376.3
35°	351.7	957.0	3762.7	6691.1	8813.8	9353.7	9149.2	7582.7	5153.3	2306.7	454.0
37.5°	392.6	1079.7	4396.7	7607.3	10188.0	10924.2	10768.8	8797.5	5832.3	2907.9	556.2
40°	396.7	1227.0	5055.2	8801.5	12130.8	13443.6	13165.5	10883.3	7096.0	3680.9	715.7
42.5°	409.0	1447.8	5910.0	10838.3	15946.7	17832.1	17517.2	14719.7	9963.1	5231.0	1014.3
45°	466.3	1865.0	7652.3	14646.1	21185.9	23950.7	23586.7	20065.2	13967.1	8147.2	1730.0
47.5°	666.7	2805.7	10707.5	18756.5	26543.7	28748.2	28658.2	24277.9	17594.9	11136.9	2932.5
50°	1071.6	4306.7	14183.9	22212.4	29954.7	31848.3	31623.4	26036.5	19664.4	13177.8	3758.7
52.5°	1431.5	5742.3	16367.9	23484.4	30973.1	33230.7	32956.7	26678.7	20208.4	13779.0	3987.7
55°	1521.5	6261.7	17018.2	23877.1	31647.9	34400.5	34003.7	27108.1	20277.9	13349.6	3607.3
57.5°	1476.5	5770.9	16597.0	24261.5	32588.6	35602.9	35075.3	27946.5	20511.0	12621.5	3002.0
59°	1398.8	5165.6	16335.2	24568.3	33108.0	35791.0	35296.2	28130.6	20666.5	12290.3	2633.9
60°	1308.8	4756.6	16130.7	24768.7	33075.3	35496.6	34985.3	28044.7	20727.8	12004.0	2458.1
62.5°	1010.2	3795.5	15836.2	24625.5	31009.9	32809.5	32519.1	25942.5	19828.0	11087.8	1938.6
65°	785.3	2903.9	14756.5	21963.0	26388.3	27598.9	27508.9	21967.1	16686.9	9558.2	1398.8
67.5°	621.7	2118.6	12478.4	17787.1	21230.9	22952.7	22887.3	17832.1	12666.5	7304.6	1006.1
70°	507.2	1509.2	8556.1	13410.9	16981.4	19149.1	19055.0	14351.6	9386.4	4633.9	732.1
72.5°	429.4	965.2	5190.1	10110.3	14171.6	15410.9	15136.9	11578.6	6826.1	2523.5	580.8
75°	364.0	593.0	2572.6	6302.6	8441.6	8433.4	8159.4	6130.8	3664.6	1235.2	462.2
77.5°	294.5	417.2	1010.2	1730.0	2662.5	3296.5	3243.3	2171.8	1096.1	359.9	286.3
80°	192.2	196.3	269.9	474.4	732.1	809.8	920.2	662.6	319.0	171.8	118.6
82.5°	85.9	94.1	122.7	155.4	155.4	143.1	126.8	94.1	69.5	57.3	28.6
85°	20.4	28.6	20.4	24.5	20.4	16.4	16.4	8.2	0.0	0.0	0.0
87.5°	4.1	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°	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8
2.5°	32.7	32.7	32.7	28.6	28.6	28.6	24.5	24.5	24.5	20.4	20.4
5°	40.9	36.8	32.7	32.7	28.6	28.6	24.5	20.4	20.4	20.4	16.4
7.5°	45.0	40.9	36.8	32.7	28.6	24.5	24.5	20.4	16.4	16.4	16.4
10°	53.2	49.1	40.9	32.7	28.6	24.5	20.4	20.4	16.4	12.3	12.3
12.5°	61.3	53.2	45.0	36.8	28.6	24.5	20.4	20.4	16.4	12.3	8.2
15°	69.5	61.3	49.1	36.8	28.6	24.5	20.4	20.4	12.3	8.2	4.1
17.5°	77.7	65.4	49.1	40.9	28.6	24.5	20.4	16.4	8.2	4.1	0.0
20°	81.8	69.5	53.2	40.9	28.6	24.5	20.4	12.3	4.1	0.0	0.0
22.5°	90.0	77.7	57.3	40.9	28.6	20.4	12.3	4.1	0.0	0.0	0.0
25°	106.3	81.8	57.3	40.9	28.6	20.4	8.2	0.0	0.0	0.0	0.0
27.5°	118.6	90.0	57.3	40.9	28.6	16.4	4.1	0.0	0.0	0.0	0.0
30°	139.1	98.2	61.3	40.9	28.6	12.3	4.1	0.0	0.0	0.0	0.0
32.5°	171.8	106.3	61.3	40.9	24.5	12.3	0.0	0.0	0.0	0.0	0.0
35°	208.6	122.7	61.3	40.9	24.5	12.3	0.0	0.0	0.0	0.0	0.0
37.5°	212.7	130.9	61.3	40.9	24.5	8.2	0.0	0.0	0.0	0.0	0.0
40°	220.9	122.7	65.4	40.9	24.5	8.2	0.0	0.0	0.0	0.0	0.0
42.5°	253.6	114.5	69.5	40.9	24.5	8.2	0.0	0.0	0.0	0.0	0.0
45°	376.3	118.6	69.5	45.0	24.5	12.3	0.0	0.0	0.0	0.0	0.0
47.5°	654.4	122.7	65.4	45.0	24.5	12.3	0.0	0.0	0.0	0.0	0.0
50°	838.4	143.1	65.4	49.1	28.6	8.2	0.0	0.0	0.0	0.0	0.0
52.5°	891.6	167.7	65.4	53.2	36.8	4.1	0.0	0.0	0.0	0.0	0.0
55°	867.1	196.3	69.5	57.3	45.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	801.6	212.7	73.6	61.3	49.1	0.0	0.0	0.0	0.0	0.0	0.0
59°	732.1	224.9	85.9	65.4	49.1	0.0	0.0	0.0	0.0	0.0	0.0
60°	674.8	237.2	90.0	69.5	49.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	544.0	253.6	98.2	81.8	40.9	0.0	0.0	0.0	0.0	0.0	0.0
65°	474.4	265.8	102.2	90.0	36.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	433.5	274.0	110.4	94.1	32.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	400.8	269.9	118.6	90.0	28.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	364.0	257.7	143.1	81.8	24.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	327.2	233.1	155.4	73.6	16.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	237.2	196.3	143.1	65.4	8.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	102.2	106.3	102.2	49.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	20.4	24.5	20.4	12.3	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°	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8
2.5°	20.4	20.4	20.4	20.4	24.5	24.5	32.7	40.9	49.1	53.2	53.2
5°	16.4	16.4	16.4	16.4	16.4	20.4	24.5	32.7	45.0	49.1	49.1
7.5°	12.3	12.3	12.3	12.3	12.3	12.3	20.4	28.6	40.9	45.0	49.1
10°	12.3	8.2	8.2	4.1	4.1	8.2	12.3	24.5	36.8	40.9	45.0
12.5°	8.2	4.1	4.1	0.0	0.0	4.1	8.2	20.4	32.7	36.8	40.9
15°	4.1	0.0	0.0	0.0	0.0	0.0	4.1	16.4	28.6	32.7	40.9
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.3	24.5	32.7	36.8
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	20.4	28.6	32.7
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	16.4	24.5	28.6
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.3	16.4	20.4
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	12.3	16.4
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	12.3	16.4
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	8.2	12.3
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	8.2	12.3
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	8.2	8.2
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	8.2
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	8.2
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	8.2
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	8.2
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	8.2
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	4.1
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	4.1
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	4.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	8.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	8.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	4.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	4.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	4.1
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°	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8
2.5°	57.3	57.3	53.2	49.1	49.1	49.1	53.2	57.3	57.3	57.3
5°	53.2	53.2	49.1	49.1	49.1	49.1	53.2	61.3	65.4	65.4
7.5°	53.2	53.2	49.1	49.1	49.1	49.1	53.2	61.3	65.4	69.5
10°	49.1	49.1	49.1	49.1	45.0	49.1	53.2	61.3	73.6	73.6
12.5°	49.1	49.1	49.1	49.1	45.0	49.1	57.3	65.4	77.7	81.8
15°	49.1	49.1	49.1	45.0	45.0	49.1	57.3	69.5	81.8	90.0
17.5°	45.0	49.1	49.1	45.0	45.0	49.1	57.3	69.5	90.0	102.2
20°	40.9	45.0	49.1	45.0	45.0	45.0	57.3	69.5	94.1	110.4
22.5°	36.8	40.9	45.0	45.0	40.9	45.0	57.3	73.6	102.2	122.7
25°	32.7	36.8	36.8	40.9	40.9	45.0	57.3	73.6	106.3	139.1
27.5°	24.5	28.6	32.7	36.8	36.8	45.0	57.3	77.7	114.5	171.8
30°	20.4	24.5	28.6	32.7	36.8	45.0	57.3	77.7	122.7	216.8
32.5°	20.4	24.5	28.6	32.7	36.8	40.9	57.3	81.8	135.0	269.9
35°	16.4	20.4	24.5	32.7	32.7	40.9	57.3	81.8	147.2	351.7
37.5°	16.4	20.4	24.5	32.7	32.7	40.9	57.3	81.8	180.0	392.6
40°	12.3	16.4	20.4	32.7	32.7	40.9	61.3	85.9	184.0	396.7
42.5°	12.3	16.4	20.4	28.6	32.7	40.9	61.3	85.9	171.8	409.0
45°	12.3	16.4	20.4	32.7	36.8	45.0	61.3	90.0	167.7	466.3
47.5°	12.3	16.4	20.4	32.7	40.9	45.0	61.3	90.0	171.8	666.7
50°	12.3	16.4	20.4	32.7	45.0	45.0	61.3	90.0	188.1	1071.6
52.5°	8.2	12.3	16.4	28.6	36.8	49.1	65.4	85.9	200.4	1431.5
55°	8.2	8.2	12.3	24.5	32.7	53.2	69.5	85.9	233.1	1521.5
57.5°	8.2	8.2	12.3	20.4	28.6	57.3	73.6	85.9	269.9	1476.5
59°	8.2	8.2	8.2	20.4	24.5	57.3	73.6	90.0	274.0	1398.8
60°	8.2	8.2	8.2	16.4	24.5	57.3	77.7	94.1	278.1	1308.8
62.5°	4.1	4.1	4.1	16.4	20.4	57.3	85.9	114.5	286.3	1010.2
65°	8.2	8.2	4.1	12.3	20.4	49.1	98.2	122.7	290.4	785.3
67.5°	8.2	8.2	8.2	16.4	20.4	49.1	102.2	126.8	290.4	621.7
70°	8.2	8.2	8.2	16.4	24.5	49.1	102.2	130.9	286.3	507.2
72.5°	8.2	8.2	8.2	16.4	24.5	45.0	94.1	135.0	274.0	429.4
75°	8.2	8.2	8.2	12.3	20.4	40.9	90.0	147.2	249.5	364.0
77.5°	8.2	8.2	8.2	8.2	16.4	32.7	81.8	163.6	220.9	294.5
80°	12.3	8.2	8.2	8.2	12.3	28.6	77.7	159.5	184.0	192.2
82.5°	12.3	8.2	8.2	4.1	8.2	20.4	61.3	122.7	94.1	85.9
85°	8.2	8.2	8.2	4.1	4.1	12.3	28.6	36.8	28.6	20.4
87.5°	8.2	8.2	8.2	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

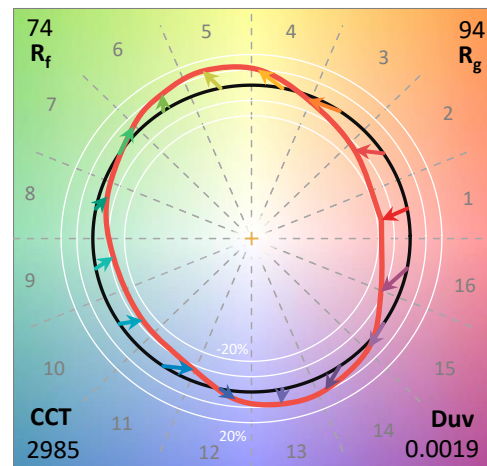
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-4
 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-730-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K):	2985	CRI (Ra):	70.8		
CIE u':	0.2504	R1:	66.3	R9:	-43.2
CIE v':	0.5243	R2:	80.6	R10:	57.6
Duv:	0.0019	R3:	94.5	R11:	64.8
CIE x:	0.4408	R4:	68.2	R12:	53.5
CIE y:	0.4101	R5:	66.5	R13:	68.7
CIE z:	0.1491	R6:	74.7	R14:	97.0
Peak Wavelength (nm):	595	R7:	76.2	R15:	56.4
Dominant Wavelength (nm):	582	R8:	39.6		
Purity:	55.41818				
Rf:	73.8				
Rg:	94.4				



Test Conditions

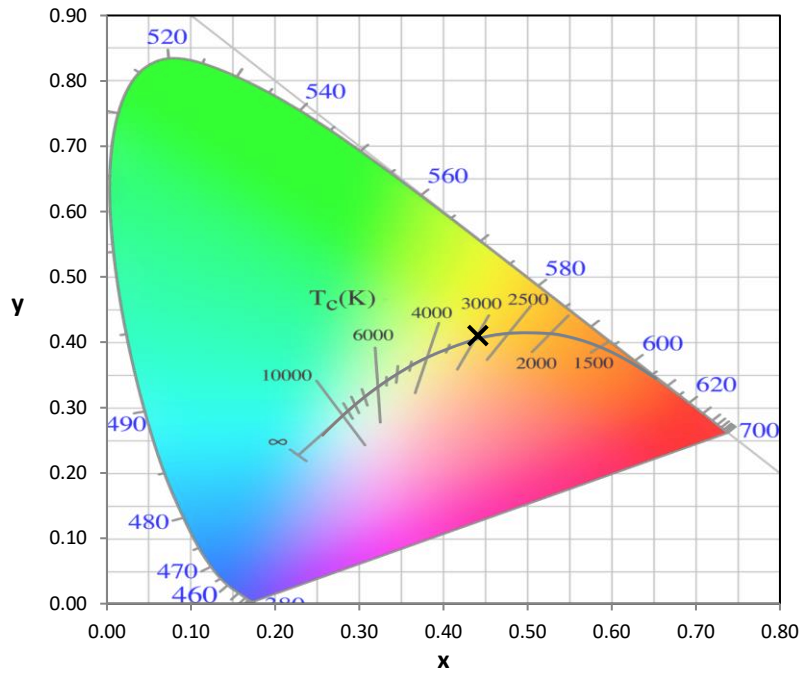
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

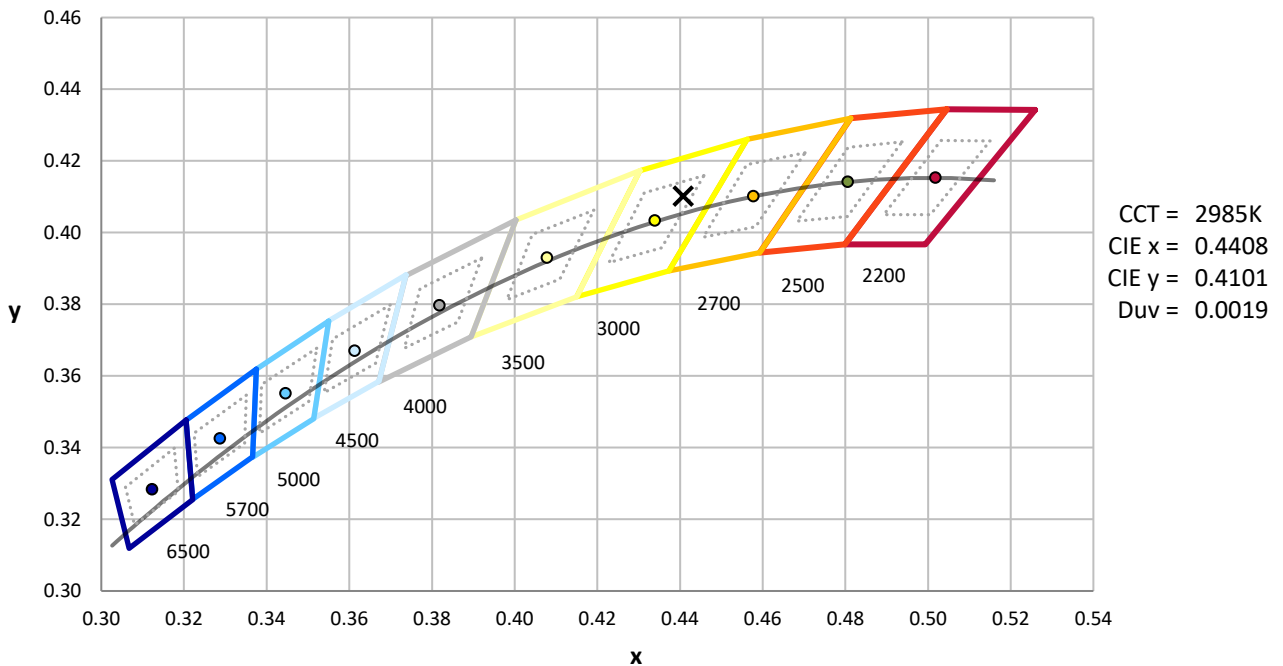
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-4

CIE 1931 Chromaticity Diagram



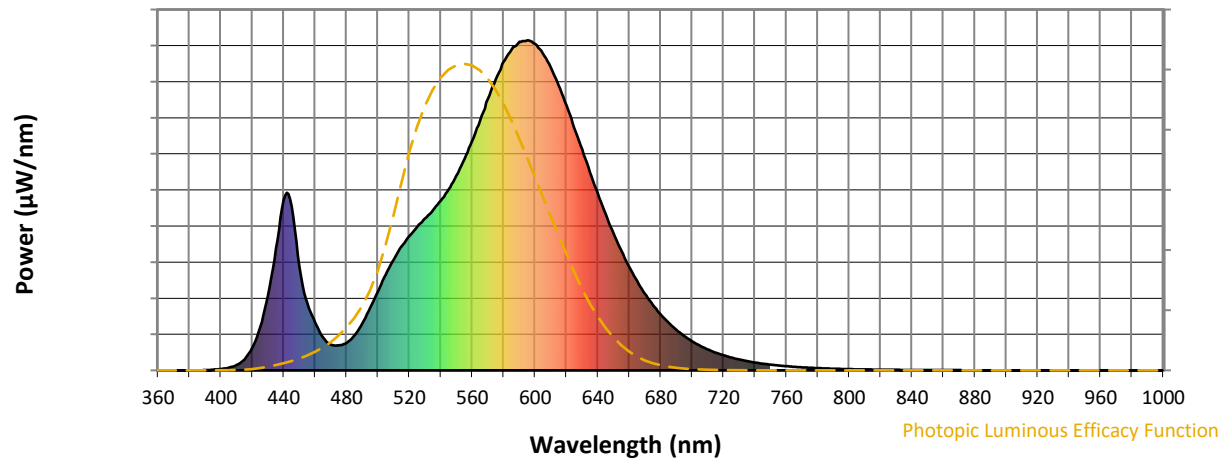
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

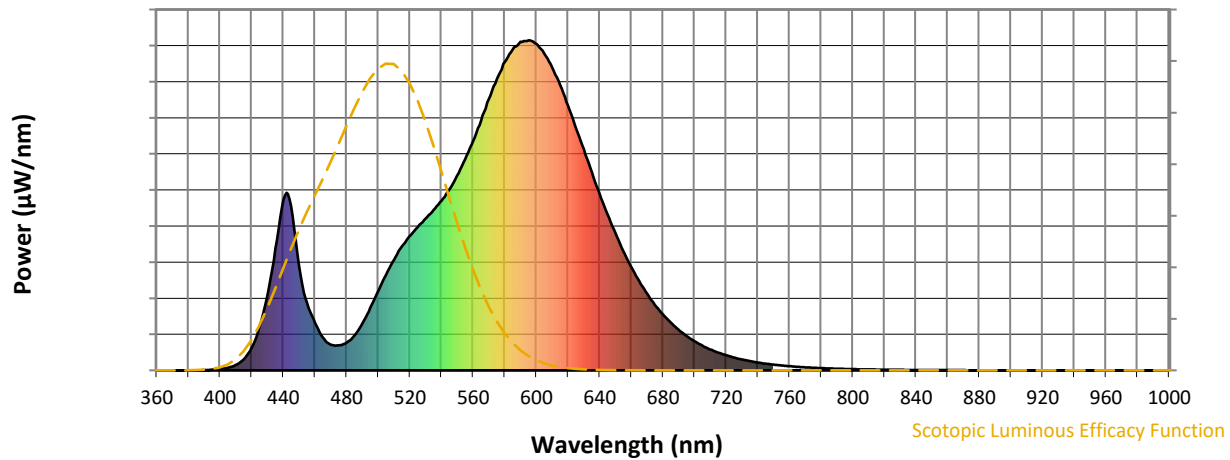


Photopic Lumens: NR

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Scotopic Flux vs. Wavelength



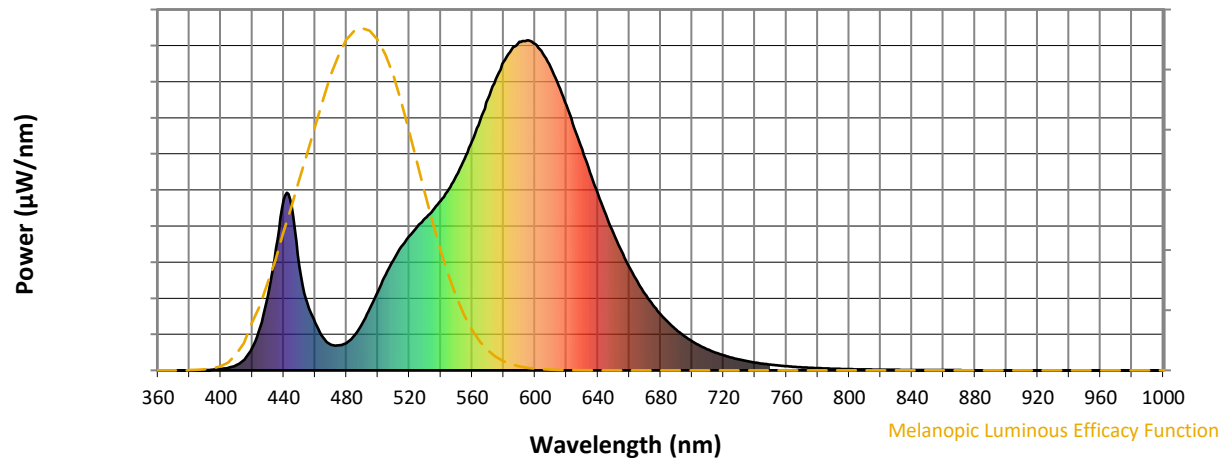
Scotopic Lumens: NR

S/P: 1.19

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

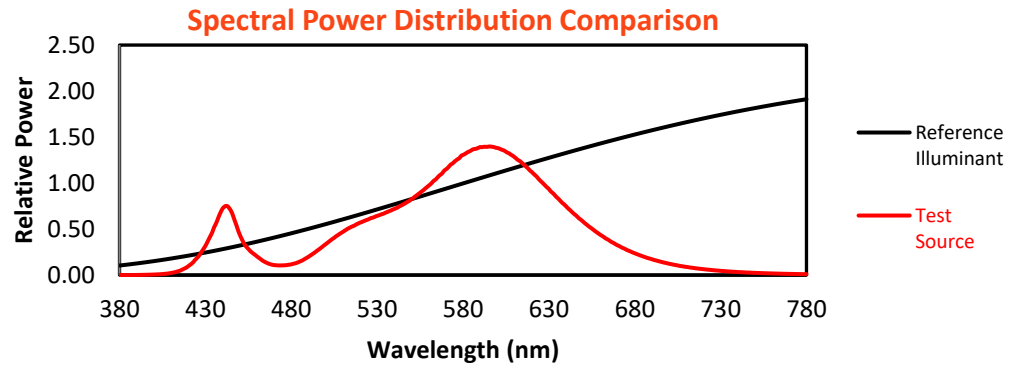
Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.13

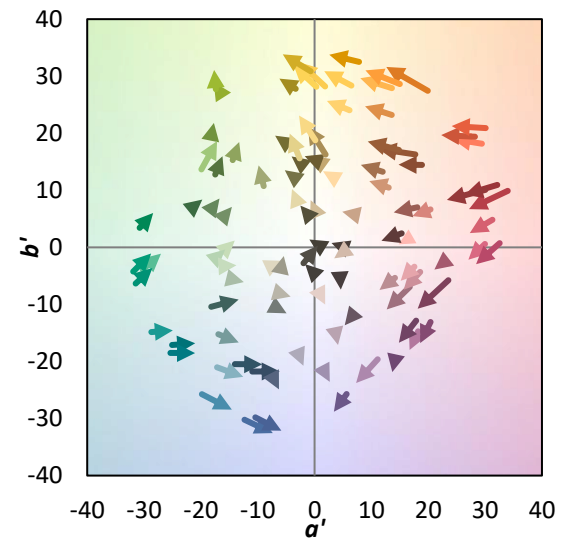
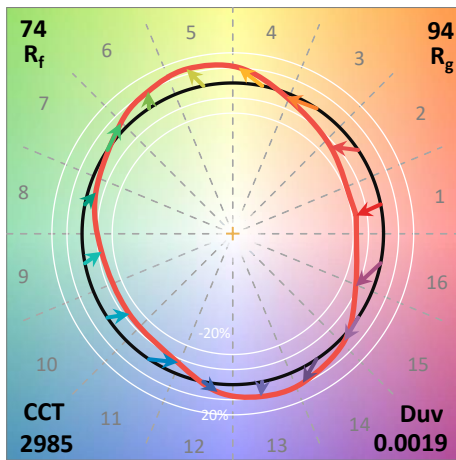
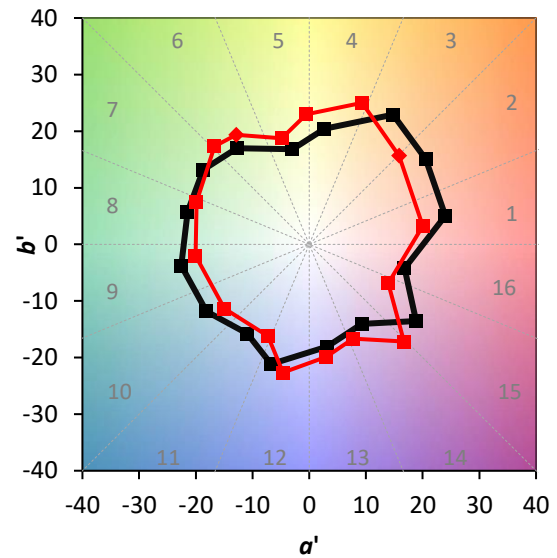
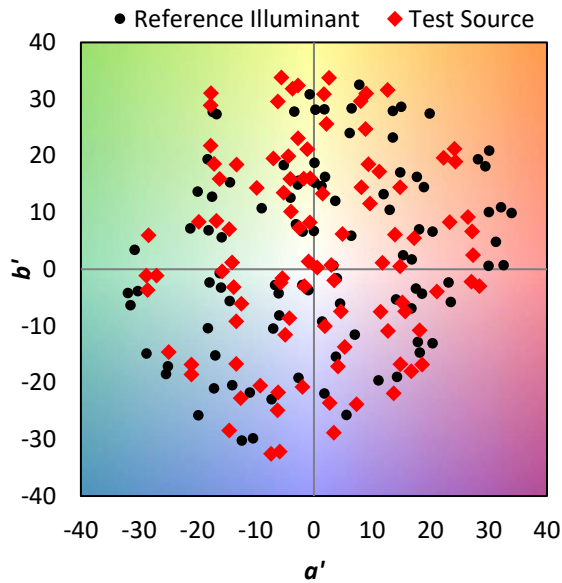
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

Summary

$R_f = 73.8$
 $R_g = 94.4$
 $CIE R_a = 70.8$
 $R_g = -43.2$

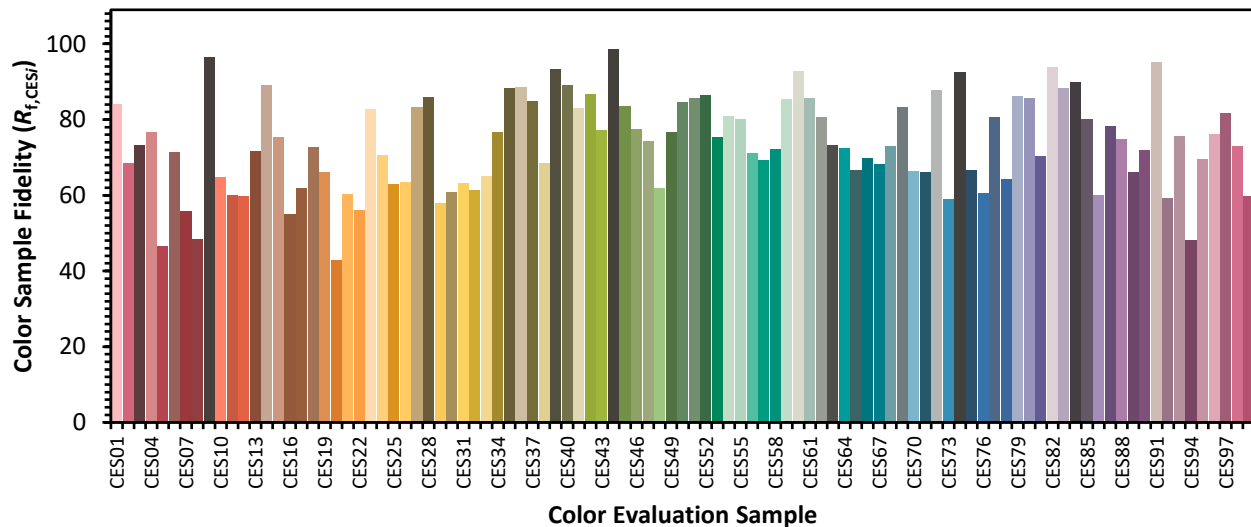


Color Vector Graphics

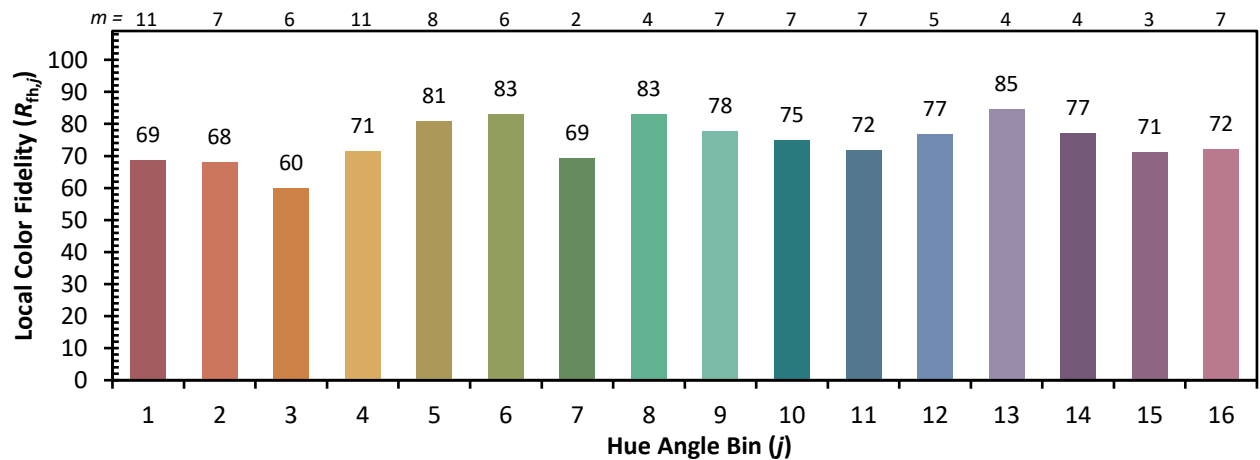
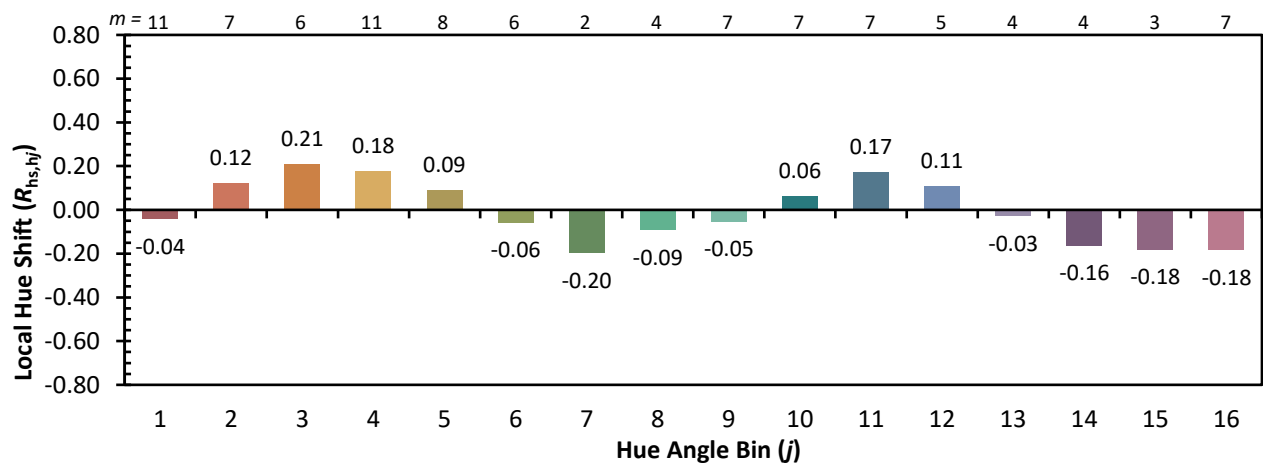
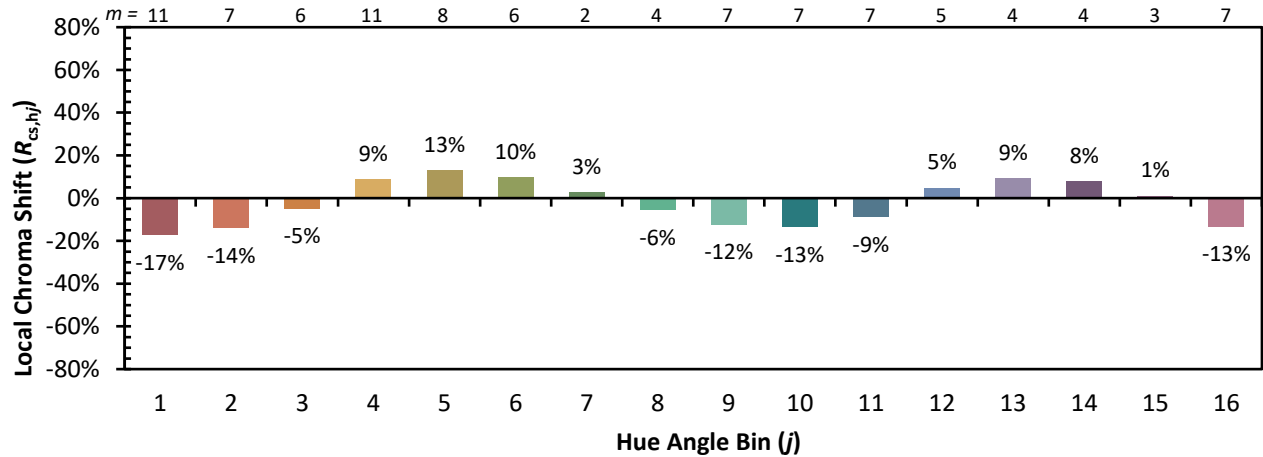


Individual Sample Fidelity Index ($R_{f,i}$)

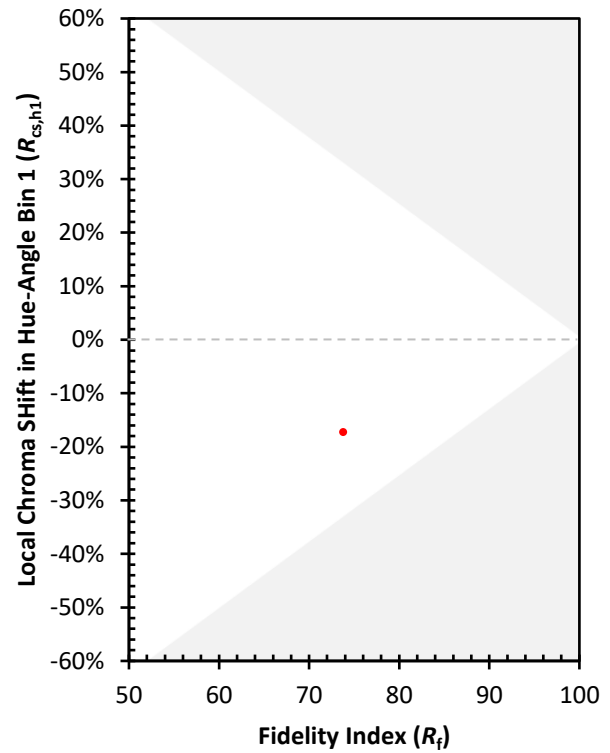
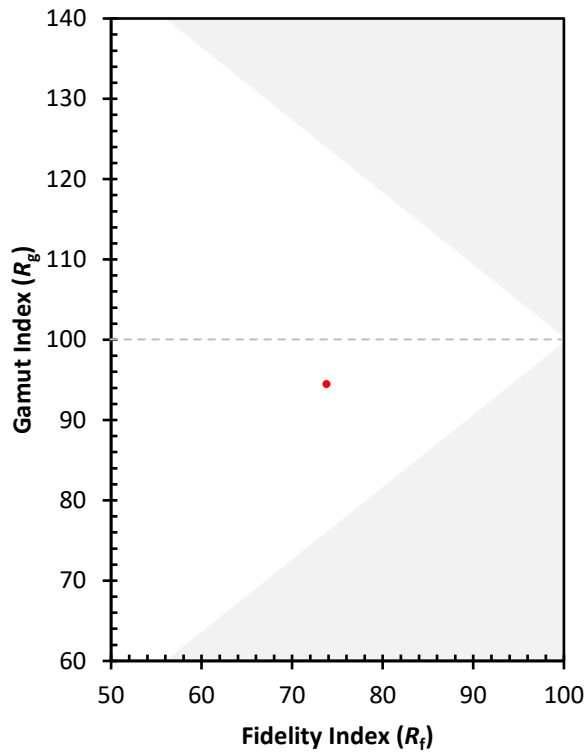
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 94
CES08 = 40	CES33 = 65	CES58 = 72	CES83 = 88
CES09 = 29	CES34 = 77	CES59 = 85	CES84 = 90
CES10 = 76	CES35 = 88	CES60 = 93	CES85 = 80
CES11 = 59	CES36 = 89	CES61 = 86	CES86 = 60
CES12 = 65	CES37 = 85	CES62 = 81	CES87 = 78
CES13 = 43	CES38 = 69	CES63 = 73	CES88 = 75
CES14 = 74	CES39 = 93	CES64 = 72	CES89 = 66
CES15 = 71	CES40 = 89	CES65 = 67	CES90 = 72
CES16 = 47	CES41 = 83	CES66 = 70	CES91 = 95
CES17 = 50	CES42 = 87	CES67 = 68	CES92 = 59
CES18 = 56	CES43 = 77	CES68 = 73	CES93 = 76
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 66	CES45 = 83	CES70 = 66	CES95 = 70
CES21 = 87	CES46 = 77	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 74	CES72 = 88	CES97 = 82
CES23 = 92	CES48 = 62	CES73 = 59	CES98 = 73
CES24 = 91	CES49 = 77	CES74 = 93	CES99 = 60
CES25 = 73	CES50 = 85	CES75 = 67	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)