

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: P1067986

Luminaire Tested: **NAV-SA6B-735-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067986
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA6B-735-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 6xLight Square PACKAGE
70CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21455.8 lumens
Efficiency: N/A
Efficacy: 101.7 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): 211
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



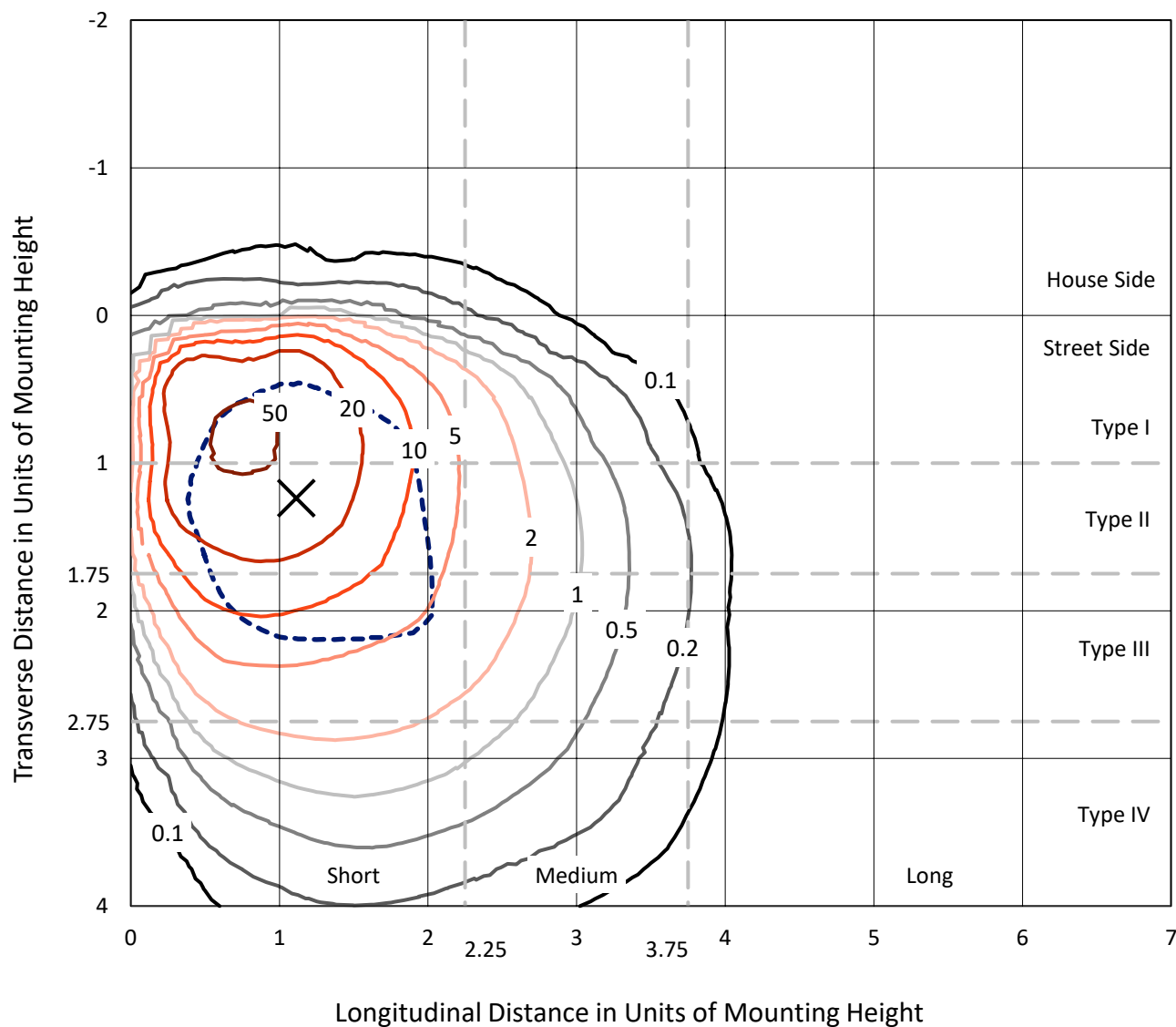
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

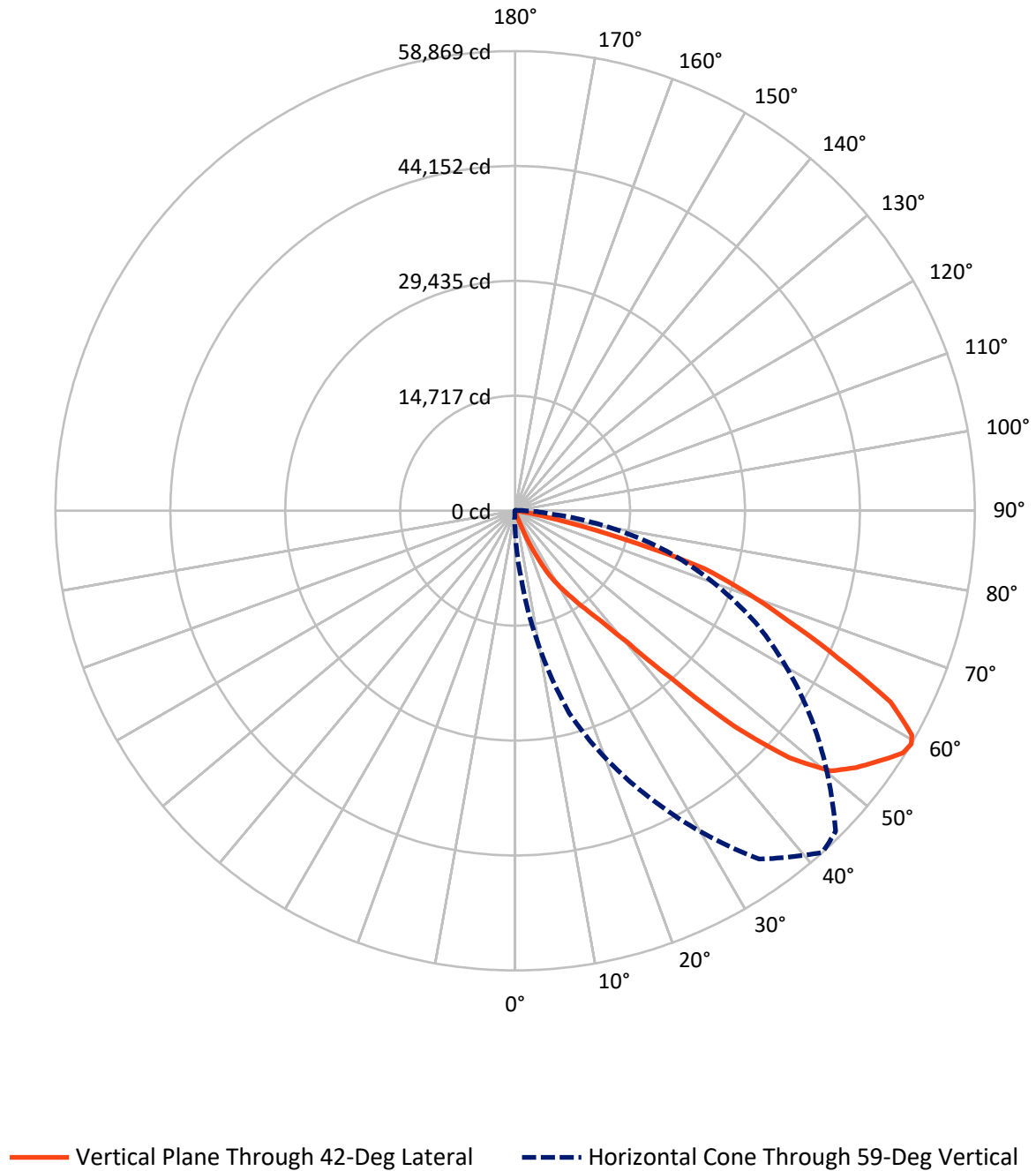


Based on 15 foot mounting height. Maximum calculated value = 63.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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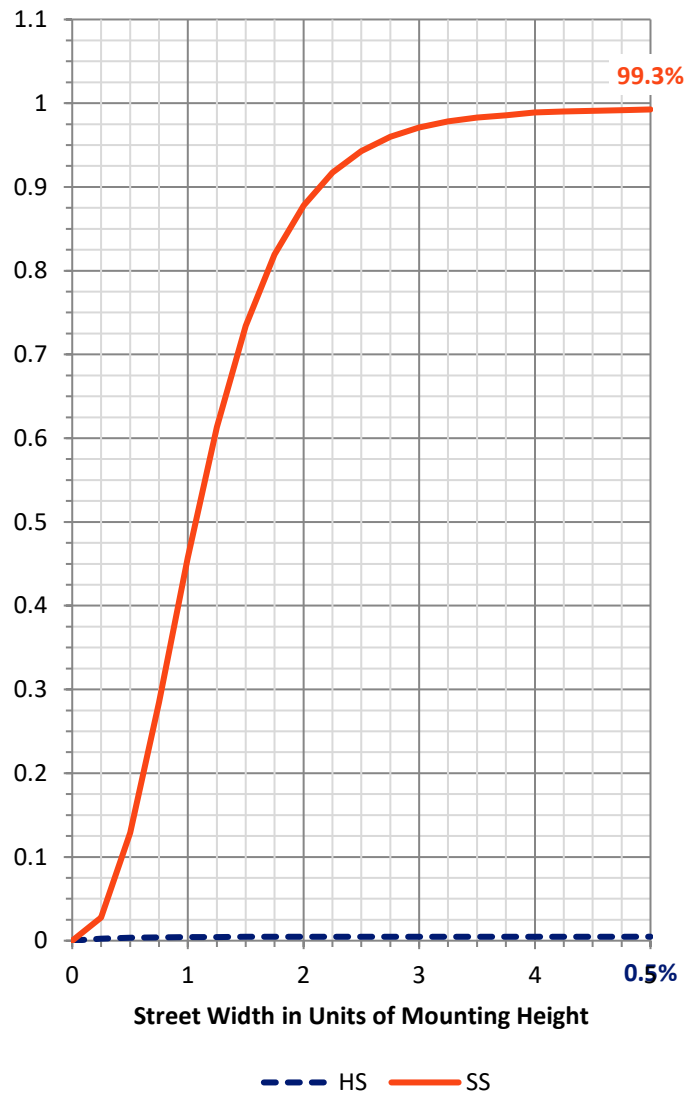
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	103.4	0.0	103.4
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	21352.5	0.0	21352.5
	% Fixture	99.5	0.0	99.5
Total	Lumens	21455.8	0.0	21455.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.3	0.0
10°-20°	31.3	0.1
20°-30°	400.2	1.9
30°-40°	1349.3	6.3
40°-50°	4075.5	19.0
50°-60°	7194.2	33.5
60°-70°	6334.6	29.5
70°-80°	2016.3	9.4
80°-90°	48.2	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°	21455.8	100.0
0°-180°	21455.8	100.0



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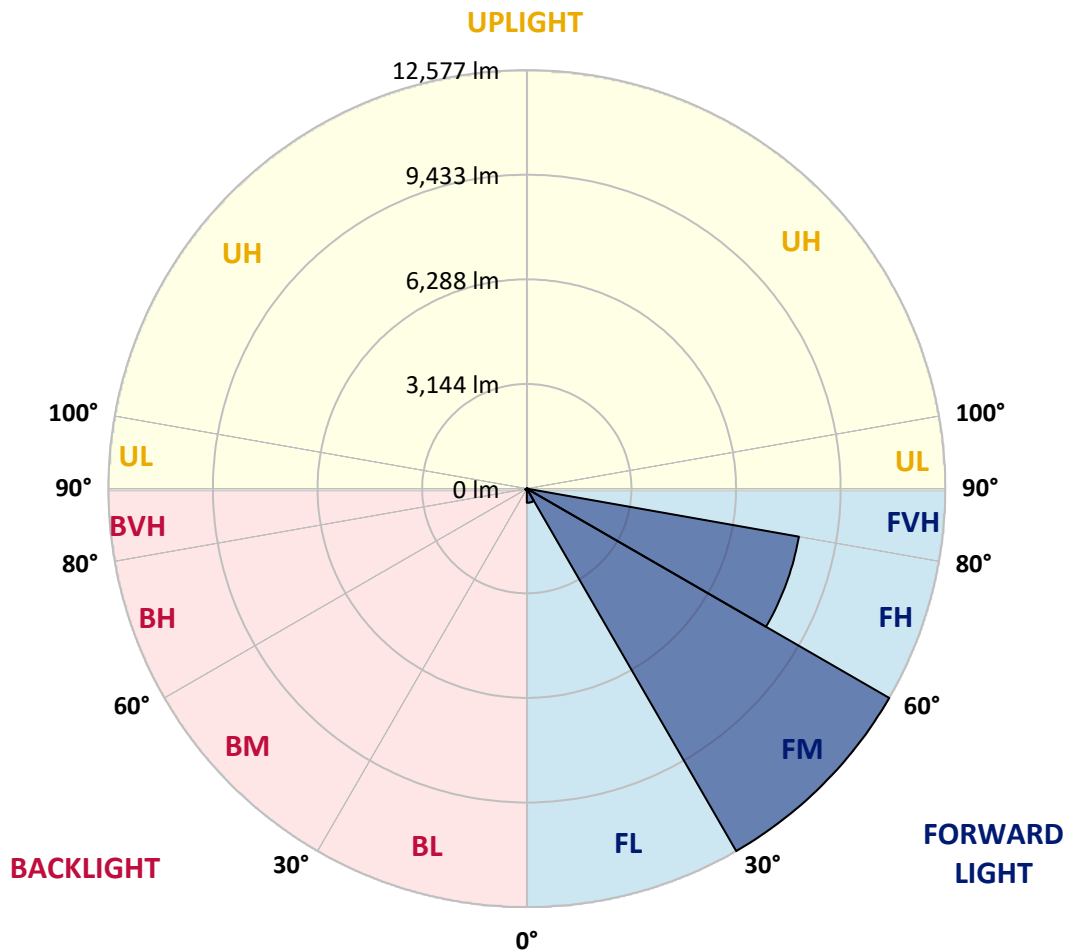
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	426.3	2.0			
FM	(30°-60°)	12576.7	58.6			
FH	(60°-80°)	8303.6	38.7			G4/12000
FVH	(80°-90°)	45.9	0.2			G1/100
BL	(0°-30°)	11.5	0.1	B0/110		
BM	(30°-60°)	42.2	0.2	B0/220		
BH	(60°-80°)	47.3	0.2	B0/110		G0/110
BVH	(80°-90°)	2.3	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°	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
2.5°	94.2	94.2	87.5	80.7	74.0	67.3	67.3	67.3	60.5	60.5	53.8
5°	107.6	107.6	100.9	94.2	94.2	87.5	87.5	80.7	74.0	74.0	67.3
7.5°	114.4	114.4	114.4	114.4	107.6	107.6	107.6	100.9	94.2	87.5	80.7
10°	121.1	127.8	134.5	134.5	134.5	134.5	134.5	127.8	114.4	107.6	94.2
12.5°	134.5	141.3	154.7	168.2	168.2	174.9	168.2	161.5	148.0	127.8	107.6
15°	148.0	161.5	181.6	208.5	235.4	242.2	242.2	222.0	195.1	154.7	127.8
17.5°	168.2	188.4	242.2	329.6	423.8	497.8	497.8	444.0	309.4	201.8	148.0
20°	181.6	222.0	390.2	793.8	1210.9	1520.3	1459.8	1291.6	692.9	316.2	161.5
22.5°	201.8	282.5	827.4	2085.4	3229.0	3794.1	3659.6	2778.3	1554.0	565.1	195.1
25°	228.7	410.4	1641.4	3908.5	6000.6	6612.8	6525.3	5186.6	2832.1	948.5	248.9
27.5°	282.5	605.4	2630.3	5926.6	8852.9	9377.6	9344.0	7594.9	4527.4	1527.1	322.9
30°	356.5	881.3	3901.7	8052.4	10743.2	11274.7	11106.5	9357.4	6108.2	2334.3	417.1
32.5°	444.0	1231.1	5052.1	9619.8	12485.5	13185.2	12983.3	10891.2	7379.7	3020.5	618.9
35°	578.5	1574.1	6189.0	11005.6	14496.9	15384.9	15048.6	12472.1	8476.2	3794.1	746.7
37.5°	645.8	1776.0	7231.7	12512.4	16757.3	17968.1	17712.5	14470.0	9592.9	4783.0	914.9
40°	652.5	2018.1	8314.7	14476.8	19952.6	22112.0	21654.6	17900.9	11671.6	6054.4	1177.2
42.5°	672.7	2381.4	9720.7	17826.9	26229.0	29330.2	28812.3	24210.9	16387.3	8604.0	1668.3
45°	766.9	3067.6	12586.4	24089.8	34846.5	39394.0	38795.3	33003.3	22973.1	13400.4	2845.6
47.5°	1096.5	4614.8	17611.6	30850.6	43659.0	47284.9	47136.9	39932.2	28940.1	18317.9	4823.3
50°	1762.5	7083.7	23329.7	36535.0	49269.4	52384.1	52014.1	42824.8	32344.0	21674.8	6182.2
52.5°	2354.5	9444.9	26921.9	38627.1	50944.5	54657.8	54207.1	43881.0	33238.7	22663.7	6558.9
55°	2502.5	10299.2	27991.5	39272.9	52054.5	56581.8	55929.3	44587.4	33353.1	21957.3	5933.3
57.5°	2428.5	9492.0	27298.7	39905.3	53601.7	58559.6	57691.8	45966.4	33736.5	20759.9	4937.7
59°	2300.7	8496.4	26868.1	40409.8	54456.0	58869.0	58055.0	46269.1	33992.1	20215.0	4332.3
60°	2152.7	7823.6	26531.8	40739.4	54402.2	58384.7	57543.8	46127.9	34093.0	19744.1	4043.0
62.5°	1661.6	6242.8	26047.4	40504.0	51005.0	53965.0	53487.3	42670.1	32613.1	18237.2	3188.7
65°	1291.6	4776.3	24271.4	36124.6	43403.4	45394.6	45246.6	36131.4	27446.6	15721.3	2300.7
67.5°	1022.5	3484.6	20524.4	29256.2	34920.5	37752.6	37645.0	29330.2	20833.9	12014.6	1654.9
70°	834.2	2482.3	14073.1	22058.2	27931.0	31496.4	31341.7	23605.5	15438.7	7621.8	1204.2
72.5°	706.3	1587.6	8536.7	16629.4	23309.5	25347.8	24897.1	19044.5	11227.6	4150.6	955.3
75°	598.7	975.4	4231.4	10366.5	13884.8	13871.3	13420.6	10084.0	6027.5	2031.6	760.2
77.5°	484.4	686.2	1661.6	2845.6	4379.4	5422.1	5334.6	3572.1	1802.9	592.0	470.9
80°	316.2	322.9	444.0	780.3	1204.2	1332.0	1513.6	1089.8	524.7	282.5	195.1
82.5°	141.3	154.7	201.8	255.6	255.6	235.4	208.5	154.7	114.4	94.2	47.1
85°	33.6	47.1	33.6	40.4	33.6	26.9	26.9	13.5	0.0	0.0	0.0
87.5°	6.7	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°	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
2.5°	53.8	53.8	53.8	47.1	47.1	47.1	40.4	40.4	40.4	33.6	33.6
5°	67.3	60.5	53.8	53.8	47.1	47.1	40.4	33.6	33.6	33.6	26.9
7.5°	74.0	67.3	60.5	53.8	47.1	40.4	40.4	33.6	26.9	26.9	26.9
10°	87.5	80.7	67.3	53.8	47.1	40.4	33.6	33.6	26.9	20.2	20.2
12.5°	100.9	87.5	74.0	60.5	47.1	40.4	33.6	33.6	26.9	20.2	13.5
15°	114.4	100.9	80.7	60.5	47.1	40.4	33.6	33.6	20.2	13.5	6.7
17.5°	127.8	107.6	80.7	67.3	47.1	40.4	33.6	26.9	13.5	6.7	0.0
20°	134.5	114.4	87.5	67.3	47.1	40.4	33.6	20.2	6.7	0.0	0.0
22.5°	148.0	127.8	94.2	67.3	47.1	33.6	20.2	6.7	0.0	0.0	0.0
25°	174.9	134.5	94.2	67.3	47.1	33.6	13.5	0.0	0.0	0.0	0.0
27.5°	195.1	148.0	94.2	67.3	47.1	26.9	6.7	0.0	0.0	0.0	0.0
30°	228.7	161.5	100.9	67.3	47.1	20.2	6.7	0.0	0.0	0.0	0.0
32.5°	282.5	174.9	100.9	67.3	40.4	20.2	0.0	0.0	0.0	0.0	0.0
35°	343.1	201.8	100.9	67.3	40.4	20.2	0.0	0.0	0.0	0.0	0.0
37.5°	349.8	215.3	100.9	67.3	40.4	13.5	0.0	0.0	0.0	0.0	0.0
40°	363.3	201.8	107.6	67.3	40.4	13.5	0.0	0.0	0.0	0.0	0.0
42.5°	417.1	188.4	114.4	67.3	40.4	13.5	0.0	0.0	0.0	0.0	0.0
45°	618.9	195.1	114.4	74.0	40.4	20.2	0.0	0.0	0.0	0.0	0.0
47.5°	1076.3	201.8	107.6	74.0	40.4	20.2	0.0	0.0	0.0	0.0	0.0
50°	1379.1	235.4	107.6	80.7	47.1	13.5	0.0	0.0	0.0	0.0	0.0
52.5°	1466.5	275.8	107.6	87.5	60.5	6.7	0.0	0.0	0.0	0.0	0.0
55°	1426.1	322.9	114.4	94.2	74.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1318.5	349.8	121.1	100.9	80.7	0.0	0.0	0.0	0.0	0.0	0.0
59°	1204.2	370.0	141.3	107.6	80.7	0.0	0.0	0.0	0.0	0.0	0.0
60°	1110.0	390.2	148.0	114.4	80.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	894.7	417.1	161.5	134.5	67.3	0.0	0.0	0.0	0.0	0.0	0.0
65°	780.3	437.3	168.2	148.0	60.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	713.1	450.7	181.6	154.7	53.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	659.3	444.0	195.1	148.0	47.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	598.7	423.8	235.4	134.5	40.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	538.2	383.4	255.6	121.1	26.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	390.2	322.9	235.4	107.6	13.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	168.2	174.9	168.2	80.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	33.6	40.4	33.6	20.2	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°	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
2.5°	33.6	33.6	33.6	33.6	40.4	40.4	53.8	67.3	80.7	87.5	87.5
5°	26.9	26.9	26.9	26.9	26.9	33.6	40.4	53.8	74.0	80.7	80.7
7.5°	20.2	20.2	20.2	20.2	20.2	20.2	33.6	47.1	67.3	74.0	80.7
10°	20.2	13.5	13.5	6.7	6.7	13.5	20.2	40.4	60.5	67.3	74.0
12.5°	13.5	6.7	6.7	0.0	0.0	6.7	13.5	33.6	53.8	60.5	67.3
15°	6.7	0.0	0.0	0.0	0.0	0.0	6.7	26.9	47.1	53.8	67.3
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.2	40.4	53.8	60.5
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5	33.6	47.1	53.8
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	26.9	40.4	47.1
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.2	26.9	33.6
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5	20.2	26.9
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5	20.2	26.9
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	13.5	20.2
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	13.5	20.2
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	13.5	13.5
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	13.5
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	13.5
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	13.5
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	13.5
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	13.5
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	6.7
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	6.7
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	6.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	13.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	13.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	6.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	6.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	6.7
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°	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
2.5°	94.2	94.2	87.5	80.7	80.7	80.7	87.5	94.2	94.2	94.2
5°	87.5	87.5	80.7	80.7	80.7	80.7	87.5	100.9	107.6	107.6
7.5°	87.5	87.5	80.7	80.7	80.7	80.7	87.5	100.9	107.6	114.4
10°	80.7	80.7	80.7	80.7	74.0	80.7	87.5	100.9	121.1	121.1
12.5°	80.7	80.7	80.7	80.7	74.0	80.7	94.2	107.6	127.8	134.5
15°	80.7	80.7	80.7	74.0	74.0	80.7	94.2	114.4	134.5	148.0
17.5°	74.0	80.7	80.7	74.0	74.0	80.7	94.2	114.4	148.0	168.2
20°	67.3	74.0	80.7	74.0	74.0	74.0	94.2	114.4	154.7	181.6
22.5°	60.5	67.3	74.0	74.0	67.3	74.0	94.2	121.1	168.2	201.8
25°	53.8	60.5	60.5	67.3	67.3	74.0	94.2	121.1	174.9	228.7
27.5°	40.4	47.1	53.8	60.5	60.5	74.0	94.2	127.8	188.4	282.5
30°	33.6	40.4	47.1	53.8	60.5	74.0	94.2	127.8	201.8	356.5
32.5°	33.6	40.4	47.1	53.8	60.5	67.3	94.2	134.5	222.0	444.0
35°	26.9	33.6	40.4	53.8	53.8	67.3	94.2	134.5	242.2	578.5
37.5°	26.9	33.6	40.4	53.8	53.8	67.3	94.2	134.5	296.0	645.8
40°	20.2	26.9	33.6	53.8	53.8	67.3	100.9	141.3	302.7	652.5
42.5°	20.2	26.9	33.6	47.1	53.8	67.3	100.9	141.3	282.5	672.7
45°	20.2	26.9	33.6	53.8	60.5	74.0	100.9	148.0	275.8	766.9
47.5°	20.2	26.9	33.6	53.8	67.3	74.0	100.9	148.0	282.5	1096.5
50°	20.2	26.9	33.6	53.8	74.0	74.0	100.9	148.0	309.4	1762.5
52.5°	13.5	20.2	26.9	47.1	60.5	80.7	107.6	141.3	329.6	2354.5
55°	13.5	13.5	20.2	40.4	53.8	87.5	114.4	141.3	383.4	2502.5
57.5°	13.5	13.5	20.2	33.6	47.1	94.2	121.1	141.3	444.0	2428.5
59°	13.5	13.5	13.5	26.9	40.4	94.2	121.1	148.0	450.7	2300.7
60°	13.5	13.5	13.5	26.9	40.4	94.2	127.8	154.7	457.4	2152.7
62.5°	6.7	6.7	6.7	26.9	33.6	94.2	141.3	188.4	470.9	1661.6
65°	13.5	13.5	6.7	20.2	33.6	80.7	161.5	201.8	477.6	1291.6
67.5°	13.5	13.5	13.5	26.9	33.6	80.7	168.2	208.5	477.6	1022.5
70°	13.5	13.5	13.5	26.9	40.4	80.7	168.2	215.3	470.9	834.2
72.5°	13.5	13.5	13.5	26.9	40.4	74.0	154.7	222.0	450.7	706.3
75°	13.5	13.5	13.5	20.2	33.6	67.3	148.0	242.2	410.4	598.7
77.5°	13.5	13.5	13.5	13.5	26.9	53.8	134.5	269.1	363.3	484.4
80°	20.2	13.5	13.5	13.5	20.2	47.1	127.8	262.4	302.7	316.2
82.5°	20.2	13.5	13.5	6.7	13.5	33.6	100.9	201.8	154.7	141.3
85°	13.5	13.5	13.5	6.7	6.7	20.2	47.1	60.5	47.1	33.6
87.5°	13.5	13.5	13.5	6.7	6.7	6.7	6.7	6.7	6.7	6.7
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

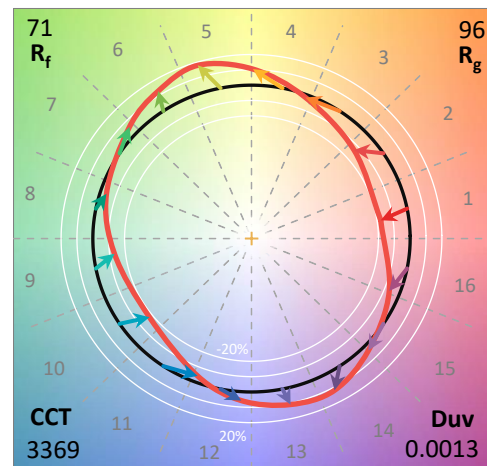
Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

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	CRI (Ra):	70.1		
CIE u':	0.2386	R1:	66.6	R9:	-40.2
CIE v':	0.5156	R2:	77.6	R10:	49.1
Duv:	0.0013	R3:	88.5	R11:	66.3
CIE x:	0.4143	R4:	69.5	R12:	45.7
CIE y:	0.3980	R5:	66.4	R13:	68.0
CIE z:	0.1877	R6:	69.6	R14:	93.4
Peak Wavelength (nm):	590	R7:	77.5	R15:	57.6
Dominant Wavelength (nm):	580	R8:	44.9		
Purity:	43.80166				
Rf:	71.4				
Rg:	96				



Test Conditions

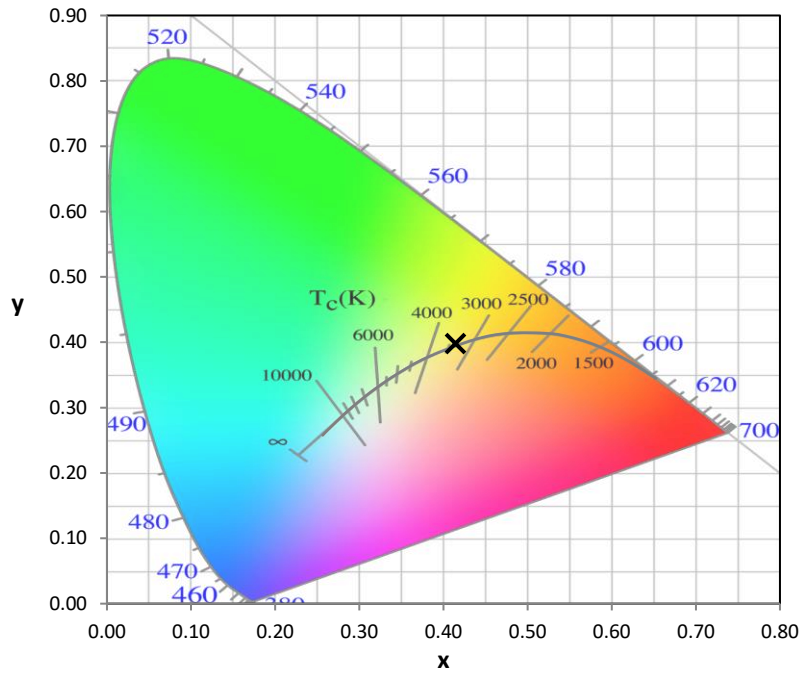
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-5

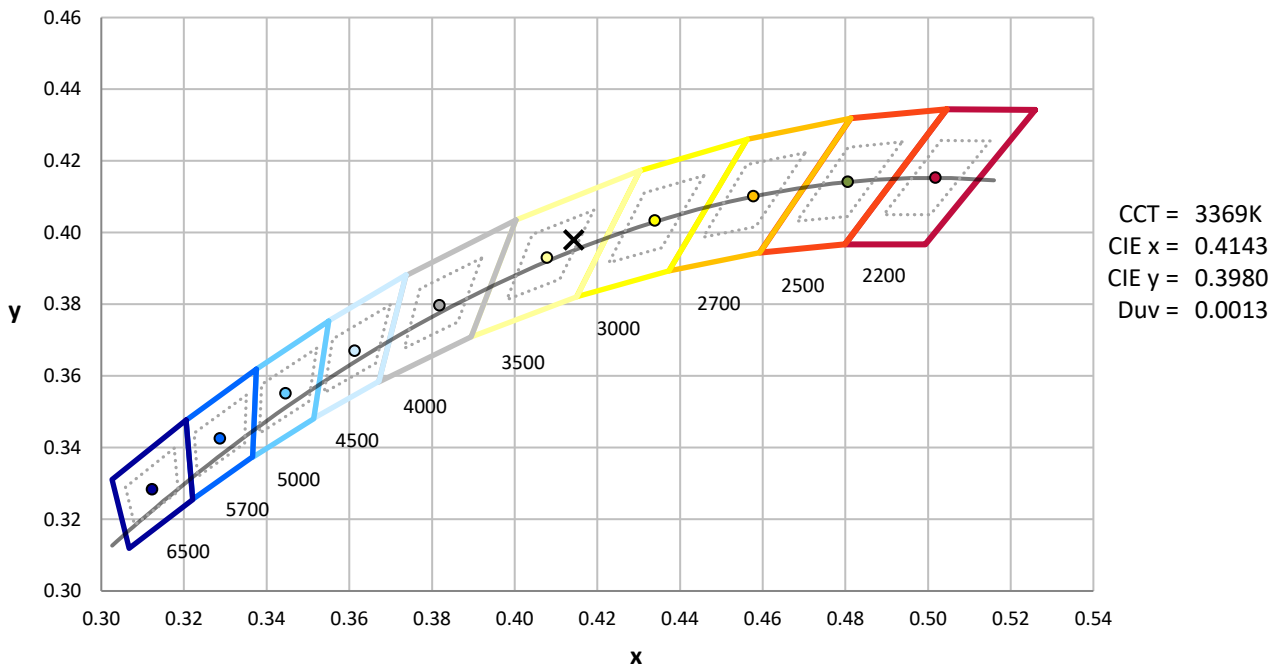
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



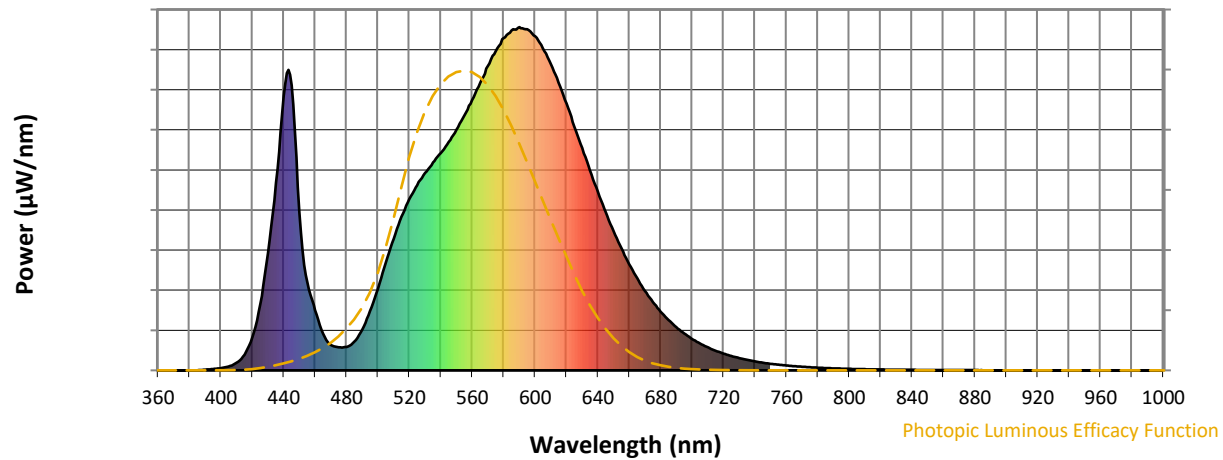
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

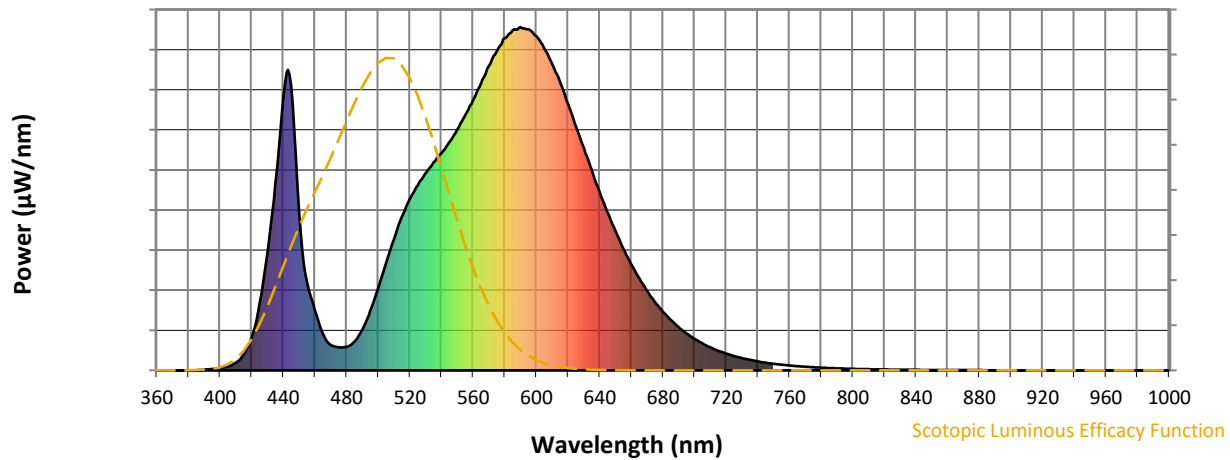


Photopic Lumens: NR

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



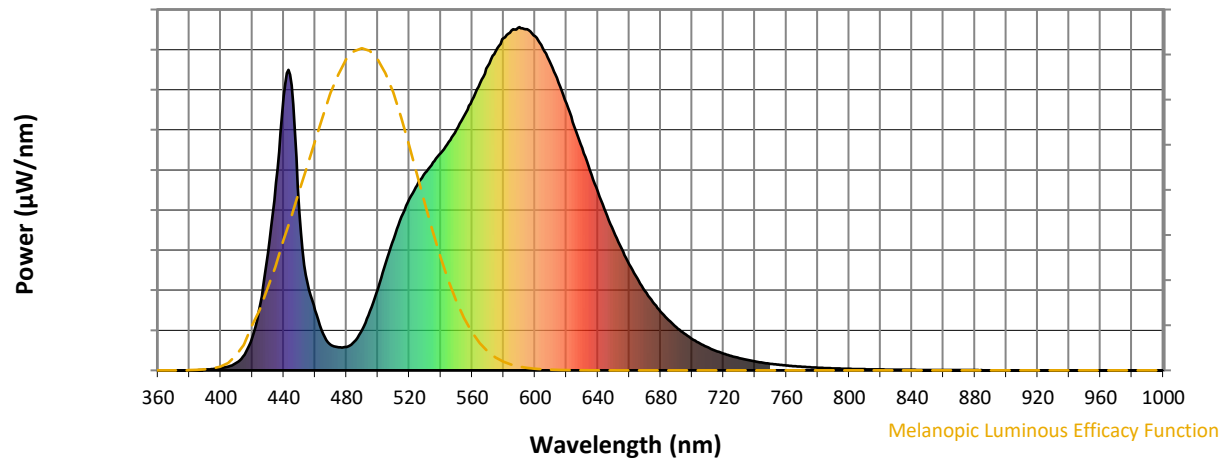
Scotopic Lumens: NR

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

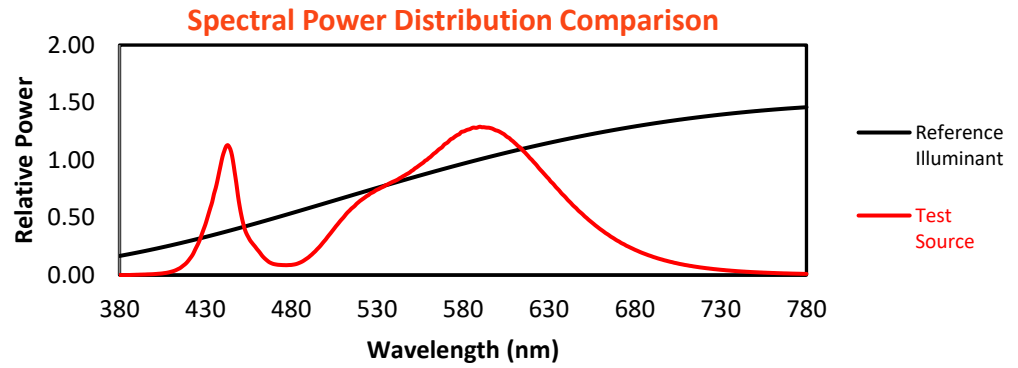
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	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

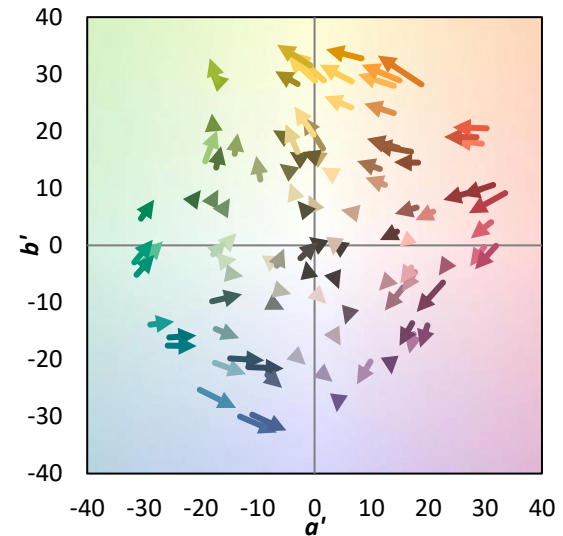
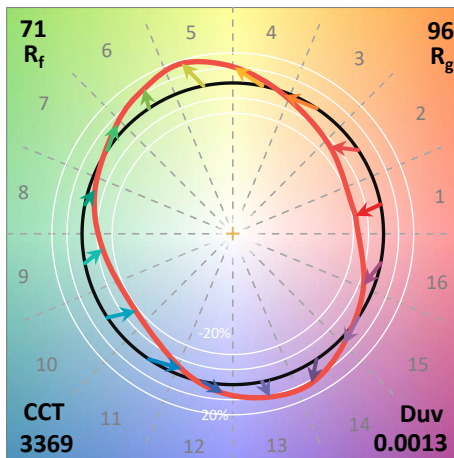
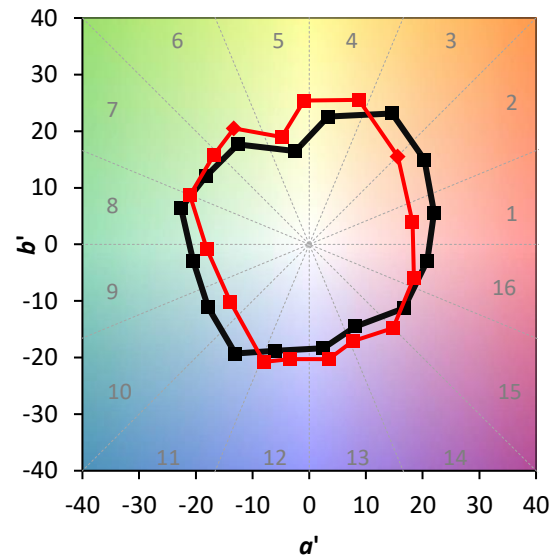
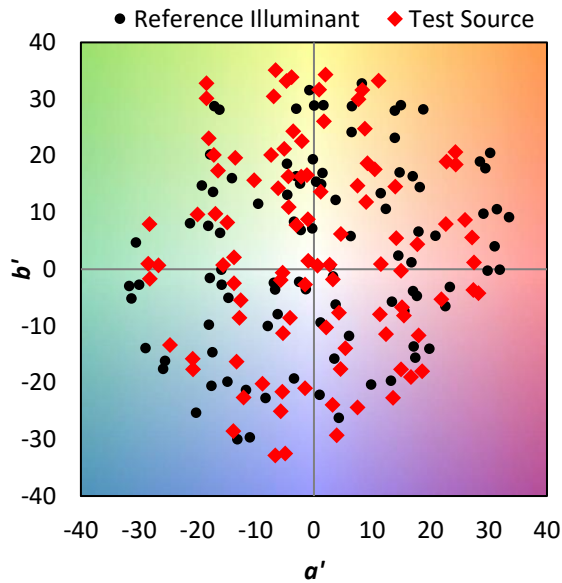
TM-30-18

Summary

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

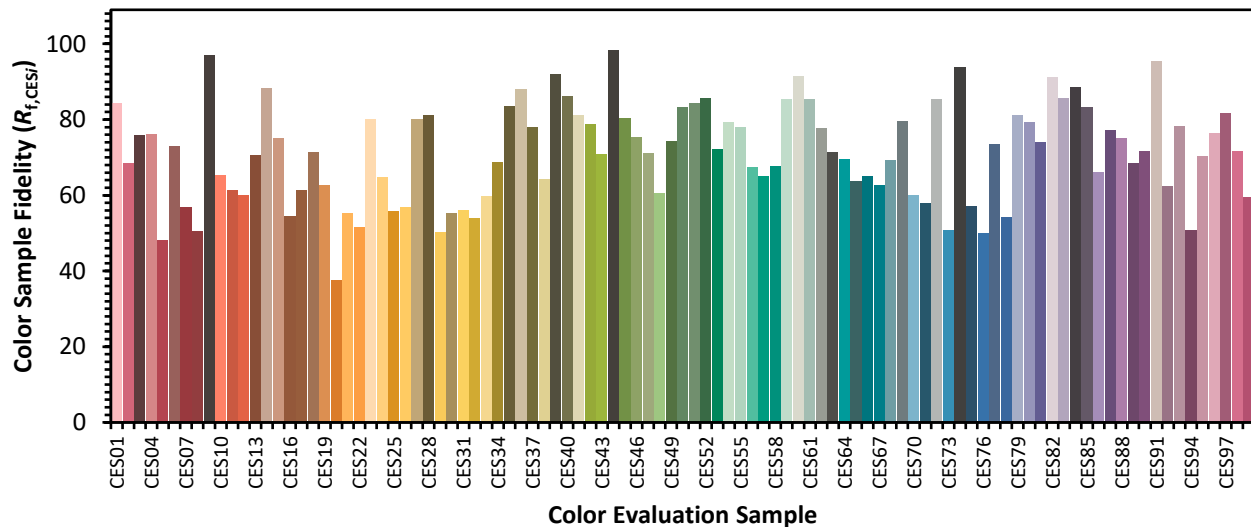


Color Vector Graphics

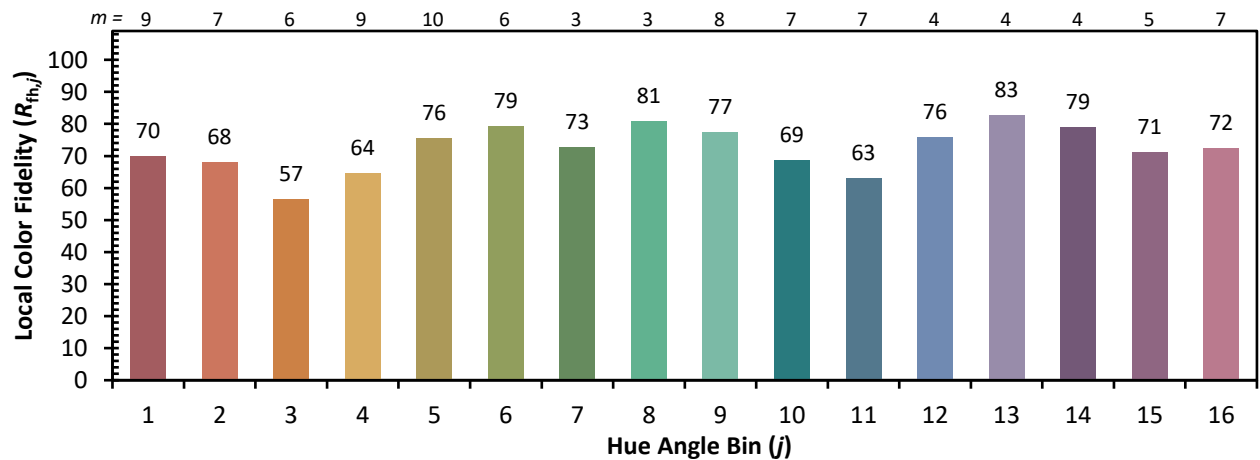
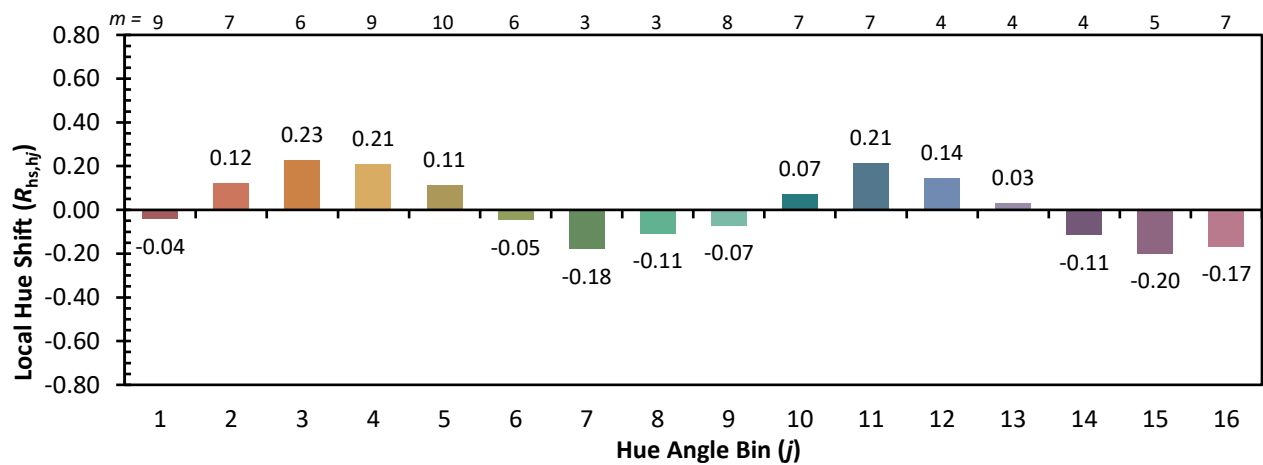
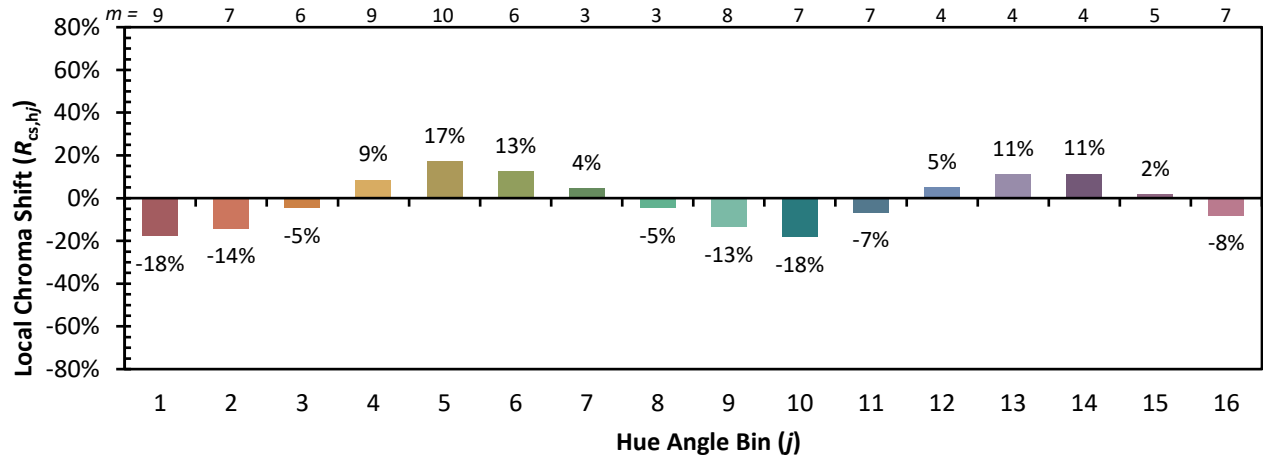


Individual Sample Fidelity Index ($R_{f,i}$)

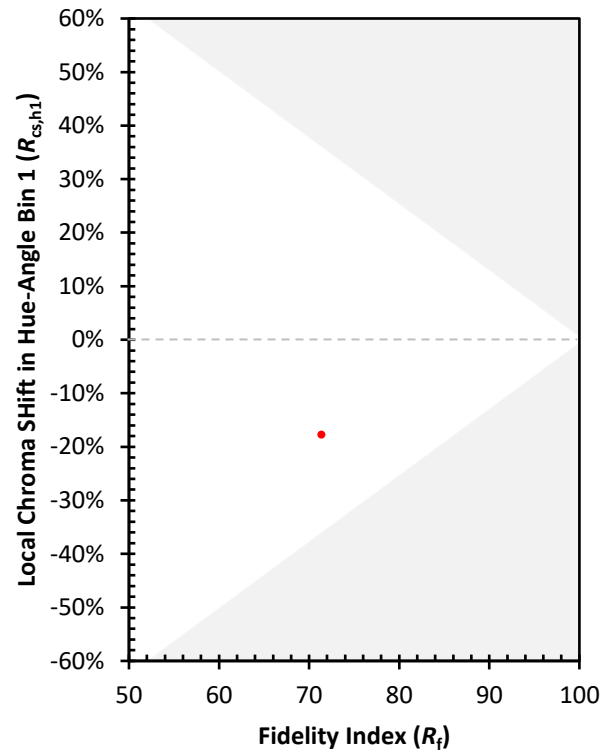
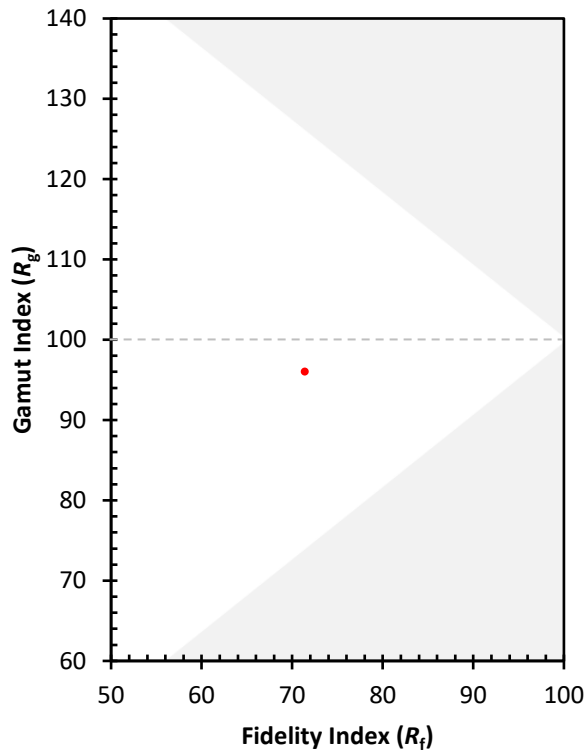
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82 = 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)