

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: P1067949

Luminaire Tested: **NAV-SA3A-730-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067949
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA3A-730-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 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: 8440 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - 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



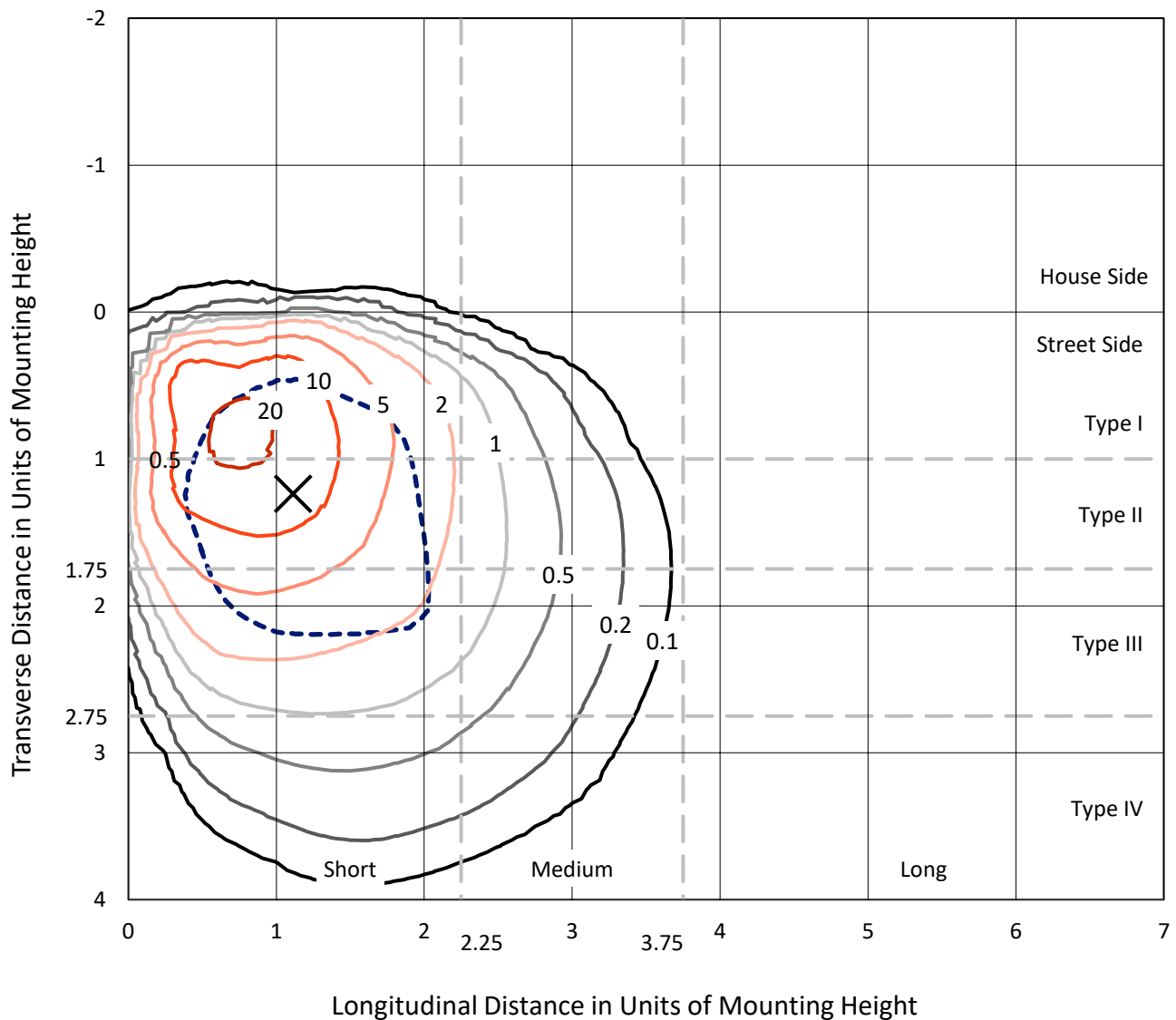
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

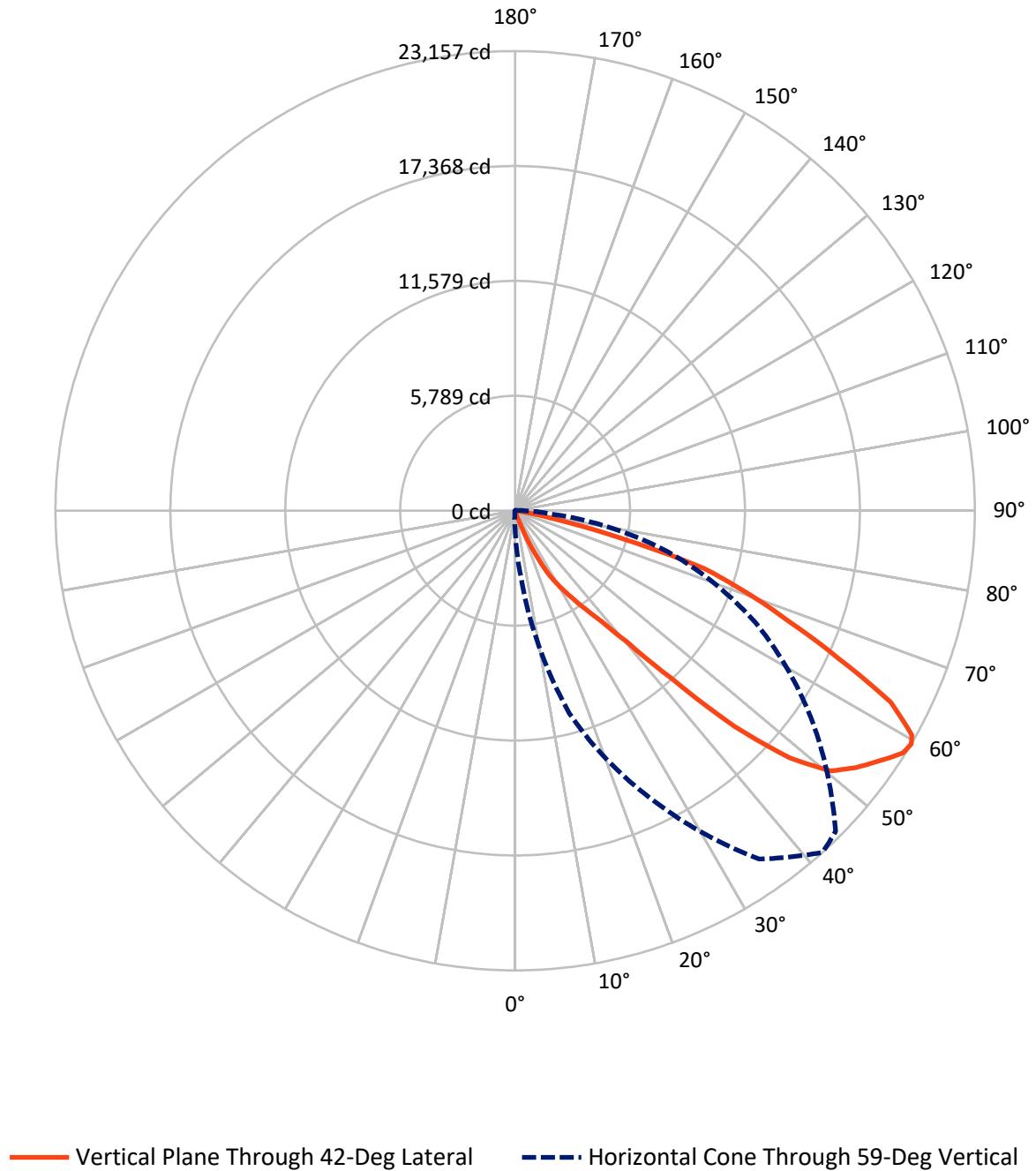


Based on 15 foot mounting height. Maximum calculated value = 25.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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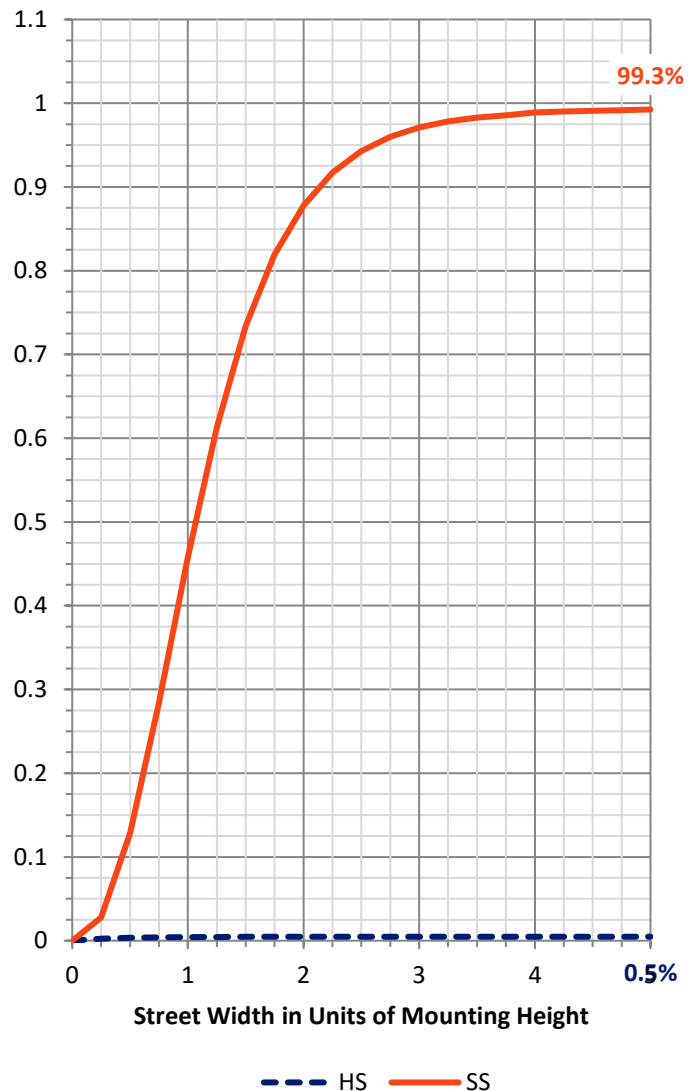
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	40.7	0.0	40.7
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	8399.3	0.0	8399.3
	% Fixture	99.5	0.0	99.5
Total	Lumens	8440.0	0.0	8440.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	0.0
10°-20°	12.3	0.1
20°-30°	157.4	1.9
30°-40°	530.8	6.3
40°-50°	1603.1	19.0
50°-60°	2829.9	33.5
60°-70°	2491.8	29.5
70°-80°	793.2	9.4
80°-90°	19.0	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°	8440.0	100.0
0°-180°	8440.0	100.0



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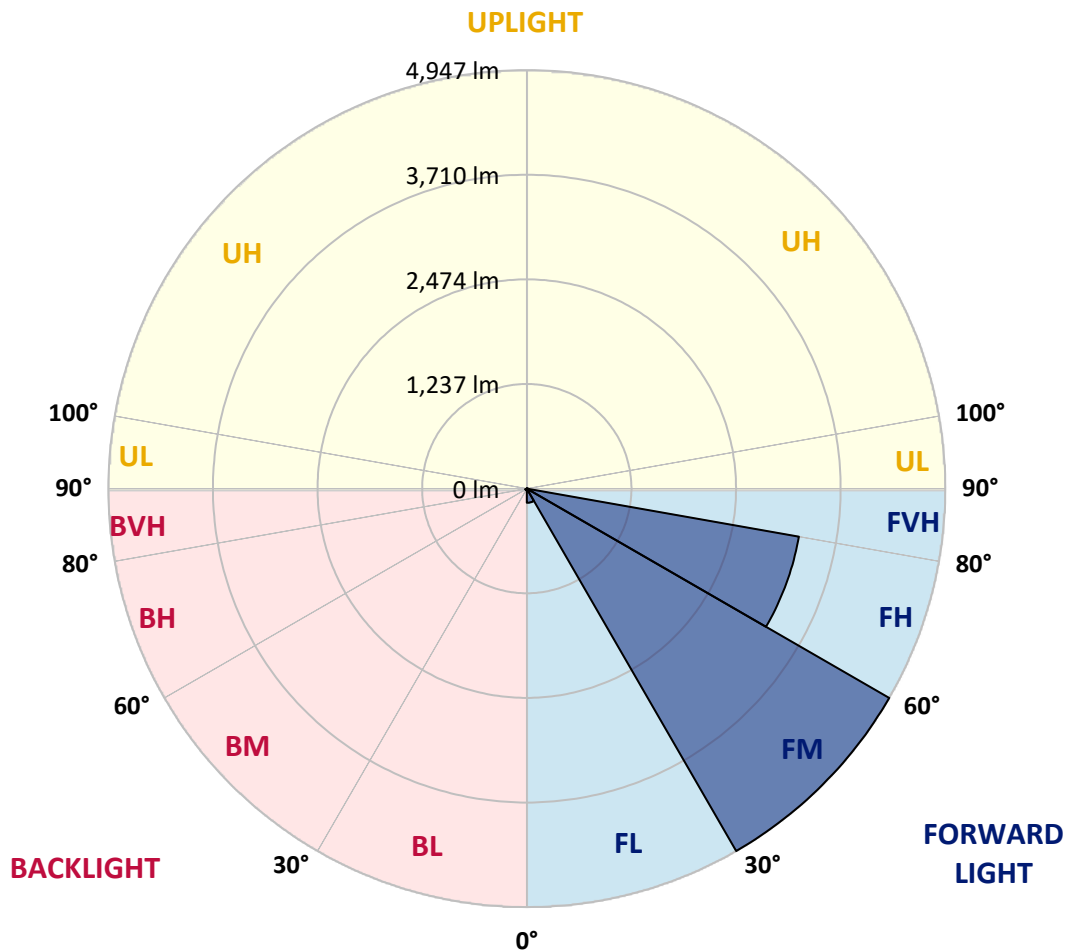
CATALOG NUMBER: NAV-SA3A-730-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	167.7	2.0			
FM	(30°-60°)	4947.2	58.6			
FH	(60°-80°)	3266.4	38.7			G2/5000
FVH	(80°-90°)	18.1	0.2			G1/100
BL	(0°-30°)	4.5	0.1	B0/110		
BM	(30°-60°)	16.6	0.2	B0/220		
BH	(60°-80°)	18.6	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°	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
2.5°	37.0	37.0	34.4	31.8	29.1	26.5	26.5	26.5	23.8	23.8	21.2
5°	42.3	42.3	39.7	37.0	37.0	34.4	34.4	31.8	29.1	29.1	26.5
7.5°	45.0	45.0	45.0	45.0	42.3	42.3	42.3	39.7	37.0	34.4	31.8
10°	47.6	50.3	52.9	52.9	52.9	52.9	52.9	50.3	45.0	42.3	37.0
12.5°	52.9	55.6	60.9	66.2	66.2	68.8	66.2	63.5	58.2	50.3	42.3
15°	58.2	63.5	71.4	82.0	92.6	95.3	95.3	87.3	76.7	60.9	50.3
17.5°	66.2	74.1	95.3	129.7	166.7	195.8	195.8	174.7	121.7	79.4	58.2
20°	71.4	87.3	153.5	312.3	476.3	598.0	574.2	508.1	272.6	124.4	63.5
22.5°	79.4	111.1	325.5	820.3	1270.2	1492.5	1439.5	1092.9	611.3	222.3	76.7
25°	90.0	161.4	645.7	1537.5	2360.4	2601.2	2566.8	2040.2	1114.1	373.1	97.9
27.5°	111.1	238.2	1034.7	2331.3	3482.4	3688.8	3675.6	2987.6	1780.9	600.7	127.0
30°	140.2	346.7	1534.8	3167.5	4226.0	4435.1	4368.9	3680.9	2402.8	918.2	164.1
32.5°	174.7	484.3	1987.3	3784.1	4911.4	5186.6	5107.2	4284.2	2902.9	1188.2	243.5
35°	227.6	619.2	2434.5	4329.2	5702.6	6051.9	5919.6	4906.1	3334.2	1492.5	293.7
37.5°	254.0	698.6	2844.7	4922.0	6591.7	7068.1	6967.5	5692.0	3773.5	1881.5	359.9
40°	256.7	793.9	3270.7	5694.7	7848.7	8698.1	8518.2	7041.6	4591.2	2381.6	463.1
42.5°	264.6	936.8	3823.8	7012.5	10317.6	11537.5	11333.8	9523.8	6446.2	3384.5	656.3
45°	301.7	1206.7	4951.1	9476.1	13707.4	15496.3	15260.8	12982.4	9036.8	5271.3	1119.4
47.5°	431.3	1815.3	6927.8	12135.6	17174.0	18600.3	18542.1	15708.0	11384.0	7205.7	1897.3
50°	693.3	2786.5	9177.1	14371.6	19380.9	20606.1	20460.6	16845.8	12723.0	8526.1	2431.9
52.5°	926.2	3715.3	10590.2	15194.6	20039.8	21500.5	21323.3	17261.3	13075.0	8915.1	2580.1
55°	984.4	4051.4	11010.9	15448.6	20476.5	22257.4	22000.7	17539.2	13120.0	8637.3	2334.0
57.5°	955.3	3733.8	10738.4	15697.4	21085.1	23035.4	22694.0	18081.6	13270.8	8166.2	1942.3
59°	905.0	3342.2	10569.0	15895.9	21421.2	23157.1	22836.9	18200.7	13371.4	7951.9	1704.2
60°	846.8	3077.6	10436.7	16025.5	21400.0	22966.6	22635.8	18145.1	13411.0	7766.7	1590.4
62.5°	653.6	2455.7	10246.2	15932.9	20063.7	21228.0	21040.1	16785.0	12828.9	7173.9	1254.3
65°	508.1	1878.8	9547.6	14210.2	17073.4	17856.7	17798.5	14212.9	10796.6	6184.2	905.0
67.5°	402.2	1370.7	8073.6	11508.4	13736.5	14850.6	14808.3	11537.5	8195.3	4726.2	651.0
70°	328.1	976.5	5535.9	8677.0	10987.1	12389.6	12328.7	9285.6	6073.1	2998.2	473.7
72.5°	277.9	624.5	3358.1	6541.5	9169.2	9971.0	9793.7	7491.5	4416.5	1632.7	375.8
75°	235.5	383.7	1664.5	4077.8	5461.8	5456.5	5279.2	3966.7	2371.0	799.2	299.0
77.5°	190.5	269.9	653.6	1119.4	1722.7	2132.9	2098.5	1405.1	709.2	232.9	185.2
80°	124.4	127.0	174.7	307.0	473.7	524.0	595.4	428.7	206.4	111.1	76.7
82.5°	55.6	60.9	79.4	100.6	100.6	92.6	82.0	60.9	45.0	37.0	18.5
85°	13.2	18.5	13.2	15.9	13.2	10.6	10.6	5.3	0.0	0.0	0.0
87.5°	2.6	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°	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
2.5°	21.2	21.2	21.2	18.5	18.5	18.5	15.9	15.9	15.9	13.2	13.2
5°	26.5	23.8	21.2	21.2	18.5	18.5	15.9	13.2	13.2	13.2	10.6
7.5°	29.1	26.5	23.8	21.2	18.5	15.9	15.9	13.2	10.6	10.6	10.6
10°	34.4	31.8	26.5	21.2	18.5	15.9	13.2	13.2	10.6	7.9	7.9
12.5°	39.7	34.4	29.1	23.8	18.5	15.9	13.2	13.2	10.6	7.9	5.3
15°	45.0	39.7	31.8	23.8	18.5	15.9	13.2	13.2	7.9	5.3	2.6
17.5°	50.3	42.3	31.8	26.5	18.5	15.9	13.2	10.6	5.3	2.6	0.0
20°	52.9	45.0	34.4	26.5	18.5	15.9	13.2	7.9	2.6	0.0	0.0
22.5°	58.2	50.3	37.0	26.5	18.5	13.2	7.9	2.6	0.0	0.0	0.0
25°	68.8	52.9	37.0	26.5	18.5	13.2	5.3	0.0	0.0	0.0	0.0
27.5°	76.7	58.2	37.0	26.5	18.5	10.6	2.6	0.0	0.0	0.0	0.0
30°	90.0	63.5	39.7	26.5	18.5	7.9	2.6	0.0	0.0	0.0	0.0
32.5°	111.1	68.8	39.7	26.5	15.9	7.9	0.0	0.0	0.0	0.0	0.0
35°	135.0	79.4	39.7	26.5	15.9	7.9	0.0	0.0	0.0	0.0	0.0
37.5°	137.6	84.7	39.7	26.5	15.9	5.3	0.0	0.0	0.0	0.0	0.0
40°	142.9	79.4	42.3	26.5	15.9	5.3	0.0	0.0	0.0	0.0	0.0
42.5°	164.1	74.1	45.0	26.5	15.9	5.3	0.0	0.0	0.0	0.0	0.0
45°	243.5	76.7	45.0	29.1	15.9	7.9	0.0	0.0	0.0	0.0	0.0
47.5°	423.4	79.4	42.3	29.1	15.9	7.9	0.0	0.0	0.0	0.0	0.0
50°	542.5	92.6	42.3	31.8	18.5	5.3	0.0	0.0	0.0	0.0	0.0
52.5°	576.9	108.5	42.3	34.4	23.8	2.6	0.0	0.0	0.0	0.0	0.0
55°	561.0	127.0	45.0	37.0	29.1	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	518.7	137.6	47.6	39.7	31.8	0.0	0.0	0.0	0.0	0.0	0.0
59°	473.7	145.5	55.6	42.3	31.8	0.0	0.0	0.0	0.0	0.0	0.0
60°	436.6	153.5	58.2	45.0	31.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	351.9	164.1	63.5	52.9	26.5	0.0	0.0	0.0	0.0	0.0	0.0
65°	307.0	172.0	66.2	58.2	23.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	280.5	177.3	71.4	60.9	21.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	259.3	174.7	76.7	58.2	18.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	235.5	166.7	92.6	52.9	15.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	211.7	150.8	100.6	47.6	10.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	153.5	127.0	92.6	42.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	66.2	68.8	66.2	31.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.2	15.9	13.2	7.9	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°	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
2.5°	13.2	13.2	13.2	13.2	15.9	15.9	21.2	26.5	31.8	34.4	34.4
5°	10.6	10.6	10.6	10.6	10.6	13.2	15.9	21.2	29.1	31.8	31.8
7.5°	7.9	7.9	7.9	7.9	7.9	7.9	13.2	18.5	26.5	29.1	31.8
10°	7.9	5.3	5.3	2.6	2.6	5.3	7.9	15.9	23.8	26.5	29.1
12.5°	5.3	2.6	2.6	0.0	0.0	2.6	5.3	13.2	21.2	23.8	26.5
15°	2.6	0.0	0.0	0.0	0.0	0.0	2.6	10.6	18.5	21.2	26.5
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	15.9	21.2	23.8
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	13.2	18.5	21.2
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	10.6	15.9	18.5
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	10.6	13.2
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	7.9	10.6
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	7.9	10.6
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	5.3	7.9
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	5.3	7.9
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	5.3	5.3
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	5.3
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	5.3
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	5.3
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	5.3
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	5.3
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	2.6
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	2.6
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	2.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	5.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	5.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	2.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	2.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	2.6
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°	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
2.5°	37.0	37.0	34.4	31.8	31.8	31.8	34.4	37.0	37.0	37.0
5°	34.4	34.4	31.8	31.8	31.8	31.8	34.4	39.7	42.3	42.3
7.5°	34.4	34.4	31.8	31.8	31.8	31.8	34.4	39.7	42.3	45.0
10°	31.8	31.8	31.8	31.8	29.1	31.8	34.4	39.7	47.6	47.6
12.5°	31.8	31.8	31.8	31.8	29.1	31.8	37.0	42.3	50.3	52.9
15°	31.8	31.8	31.8	29.1	29.1	31.8	37.0	45.0	52.9	58.2
17.5°	29.1	31.8	31.8	29.1	29.1	31.8	37.0	45.0	58.2	66.2
20°	26.5	29.1	31.8	29.1	29.1	29.1	37.0	45.0	60.9	71.4
22.5°	23.8	26.5	29.1	29.1	26.5	29.1	37.0	47.6	66.2	79.4
25°	21.2	23.8	23.8	26.5	26.5	29.1	37.0	47.6	68.8	90.0
27.5°	15.9	18.5	21.2	23.8	23.8	29.1	37.0	50.3	74.1	111.1
30°	13.2	15.9	18.5	21.2	23.8	29.1	37.0	50.3	79.4	140.2
32.5°	13.2	15.9	18.5	21.2	23.8	26.5	37.0	52.9	87.3	174.7
35°	10.6	13.2	15.9	21.2	21.2	26.5	37.0	52.9	95.3	227.6
37.5°	10.6	13.2	15.9	21.2	21.2	26.5	37.0	52.9	116.4	254.0
40°	7.9	10.6	13.2	21.2	21.2	26.5	39.7	55.6	119.1	256.7
42.5°	7.9	10.6	13.2	18.5	21.2	26.5	39.7	55.6	111.1	264.6
45°	7.9	10.6	13.2	21.2	23.8	29.1	39.7	58.2	108.5	301.7
47.5°	7.9	10.6	13.2	21.2	26.5	29.1	39.7	58.2	111.1	431.3
50°	7.9	10.6	13.2	21.2	29.1	29.1	39.7	58.2	121.7	693.3
52.5°	5.3	7.9	10.6	18.5	23.8	31.8	42.3	55.6	129.7	926.2
55°	5.3	5.3	7.9	15.9	21.2	34.4	45.0	55.6	150.8	984.4
57.5°	5.3	5.3	7.9	13.2	18.5	37.0	47.6	55.6	174.7	955.3
59°	5.3	5.3	5.3	13.2	15.9	37.0	47.6	58.2	177.3	905.0
60°	5.3	5.3	5.3	10.6	15.9	37.0	50.3	60.9	179.9	846.8
62.5°	2.6	2.6	2.6	10.6	13.2	37.0	55.6	74.1	185.2	653.6
65°	5.3	5.3	2.6	7.9	13.2	31.8	63.5	79.4	187.9	508.1
67.5°	5.3	5.3	5.3	10.6	13.2	31.8	66.2	82.0	187.9	402.2
70°	5.3	5.3	5.3	10.6	15.9	31.8	66.2	84.7	185.2	328.1
72.5°	5.3	5.3	5.3	10.6	15.9	29.1	60.9	87.3	177.3	277.9
75°	5.3	5.3	5.3	7.9	13.2	26.5	58.2	95.3	161.4	235.5
77.5°	5.3	5.3	5.3	5.3	10.6	21.2	52.9	105.8	142.9	190.5
80°	7.9	5.3	5.3	5.3	7.9	18.5	50.3	103.2	119.1	124.4
82.5°	7.9	5.3	5.3	2.6	5.3	13.2	39.7	79.4	60.9	55.6
85°	5.3	5.3	5.3	2.6	2.6	7.9	18.5	23.8	18.5	13.2
87.5°	5.3	5.3	5.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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

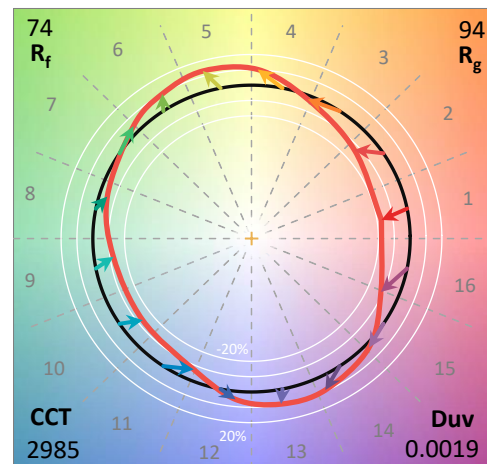
Test Information

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
 CIE u' : 0.2504
 CIE v' : 0.5243
 Duv: 0.0019
 CIE x: 0.4408
 CIE y: 0.4101
 CIE z: 0.1491
 Peak Wavelength (nm): 595
 Dominant Wavelength (nm): 582
 Purity: 55.41818
 R_f: 73.8
 R_g: 94.4

CRI (Ra): 70.8
 R1: 66.3
 R2: 80.6
 R3: 94.5
 R4: 68.2
 R5: 66.5
 R6: 74.7
 R7: 76.2
 R8: 39.6
 R9: -43.2
 R10: 57.6
 R11: 64.8
 R12: 53.5
 R13: 68.7
 R14: 97.0
 R15: 56.4



Test Conditions

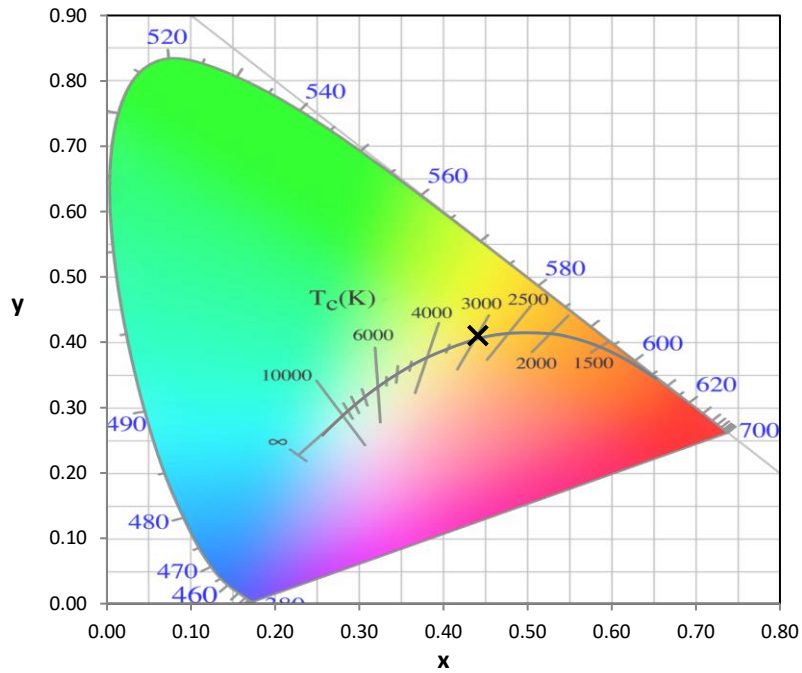
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

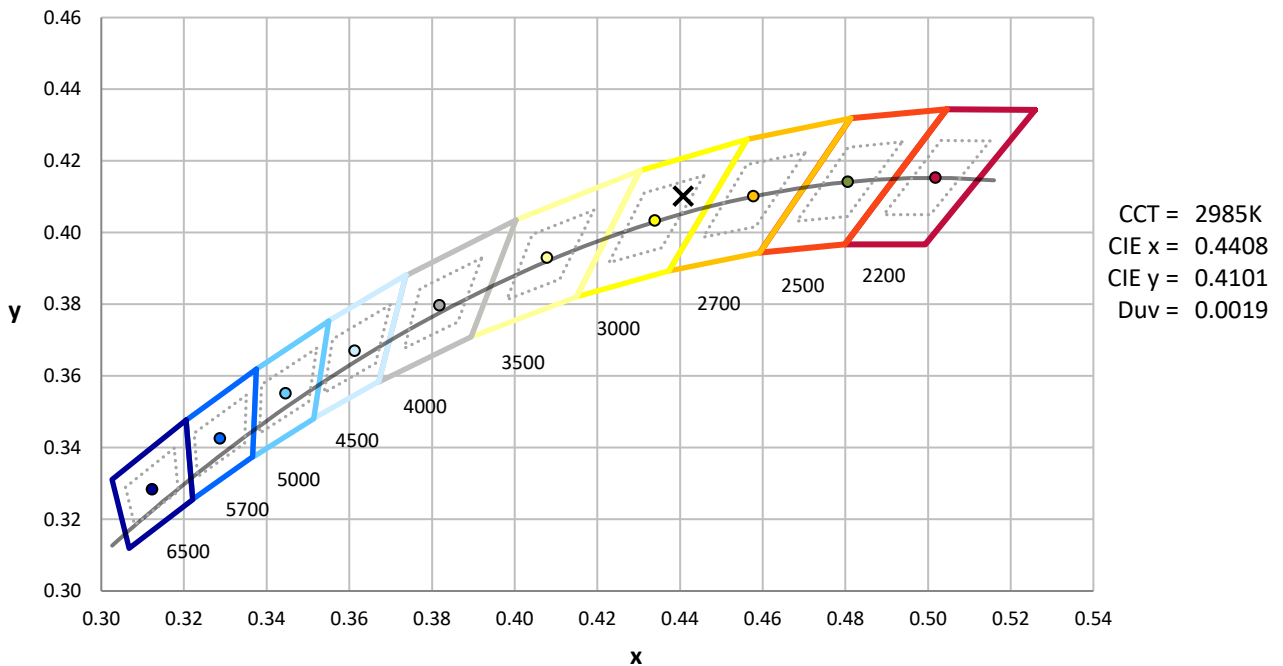
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



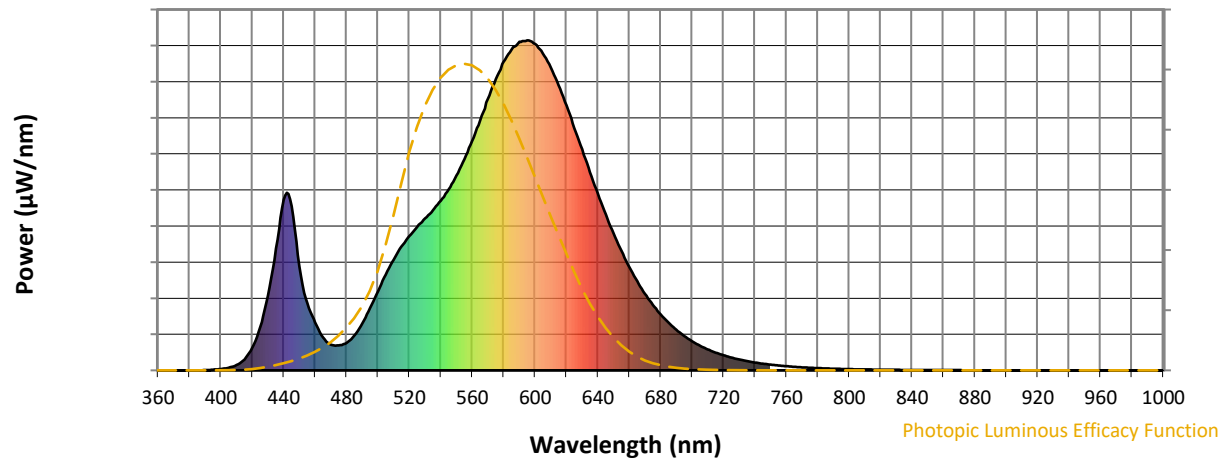
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

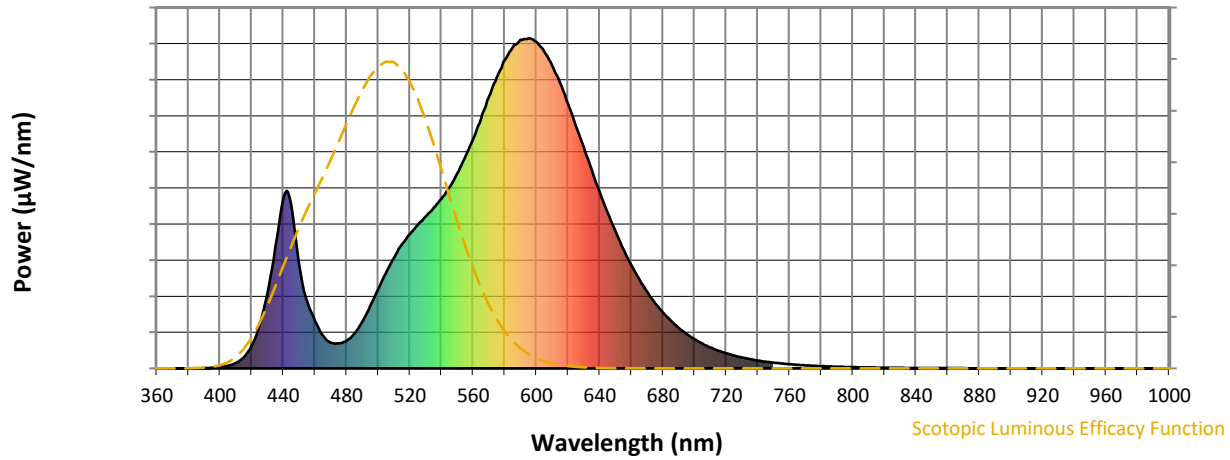


Photopic Lumens: NR

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



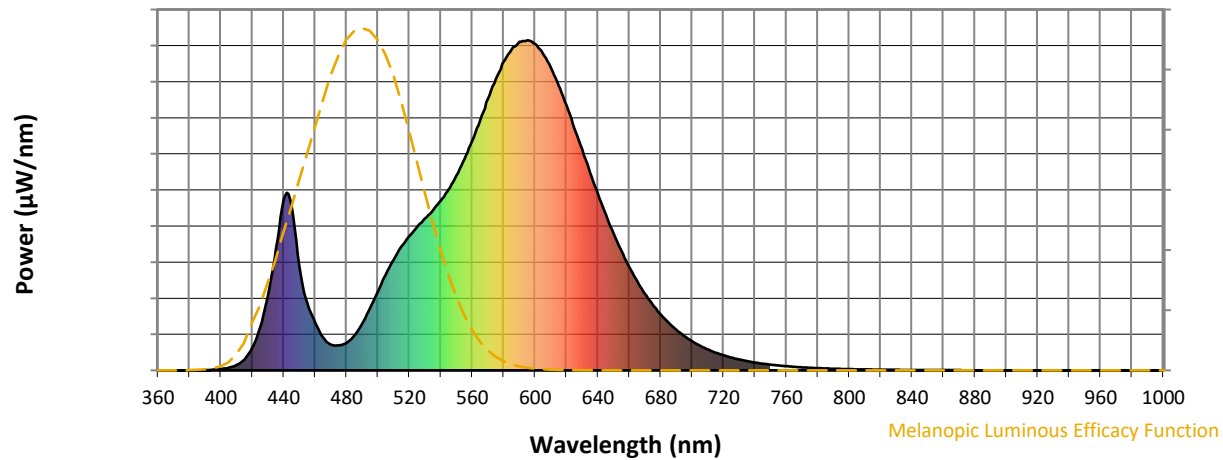
Scotopic Lumens: NR

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



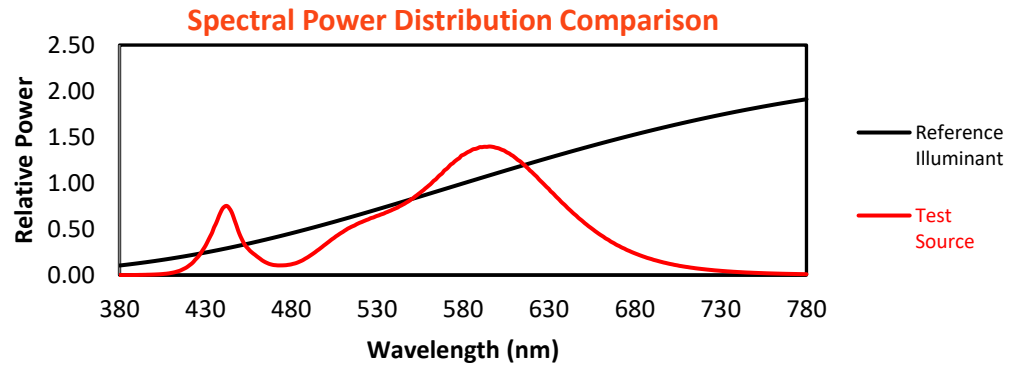
Melanopic Lumens: NR

M/P: 2.13

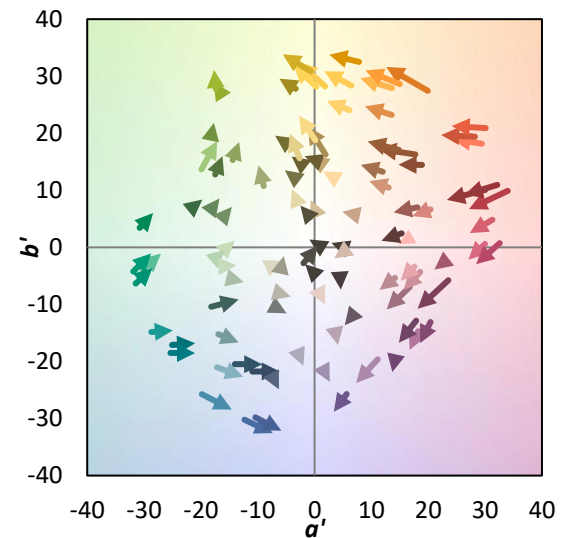
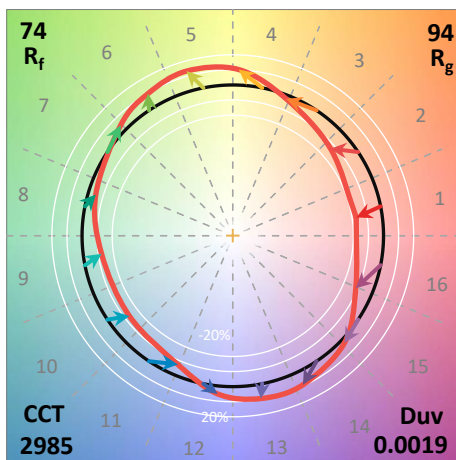
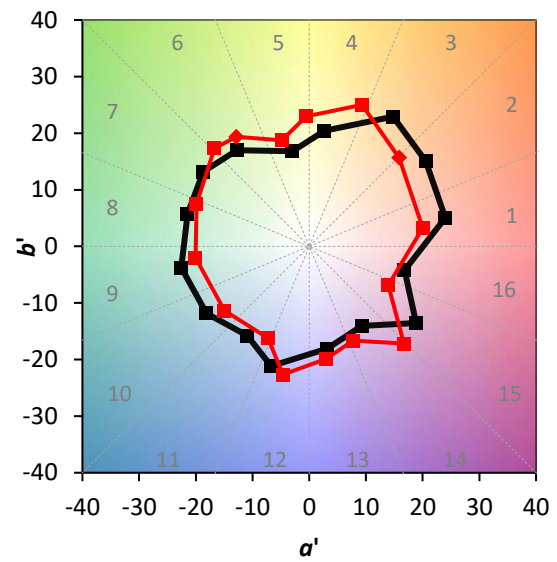
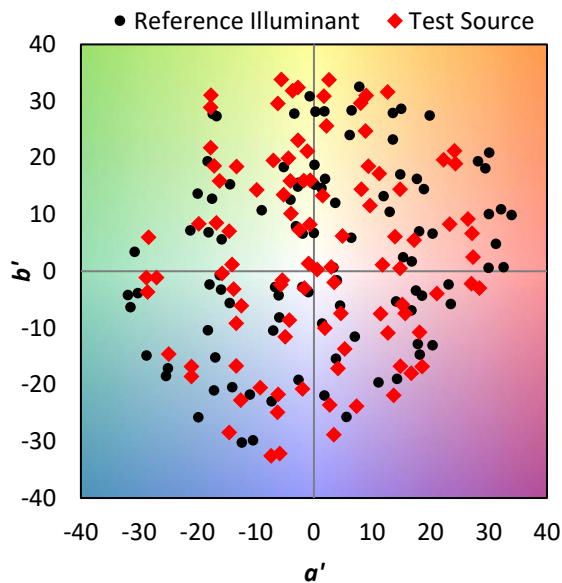
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	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

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

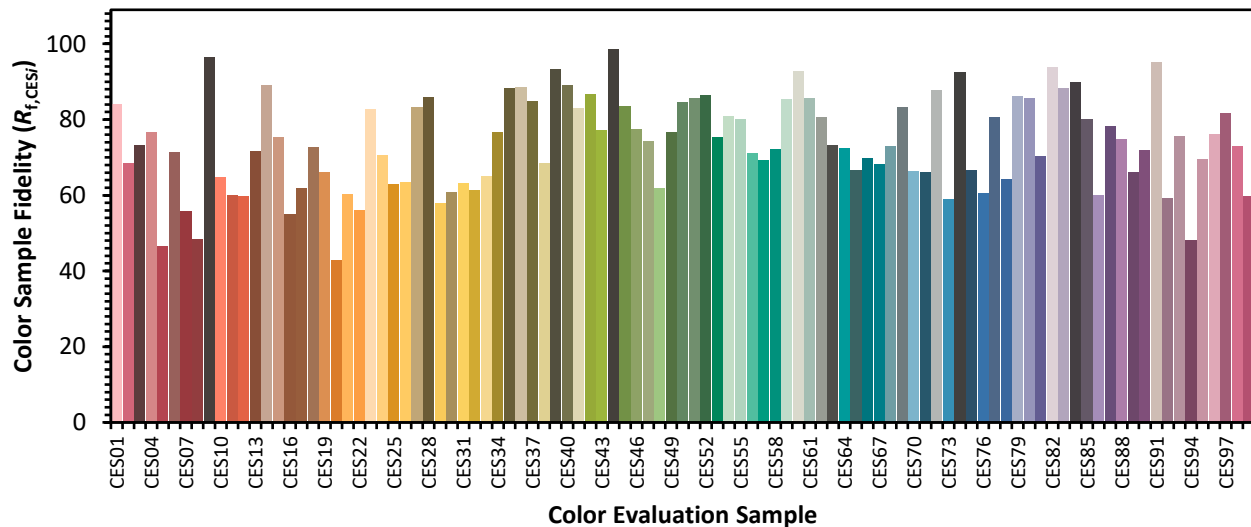


Color Vector Graphics

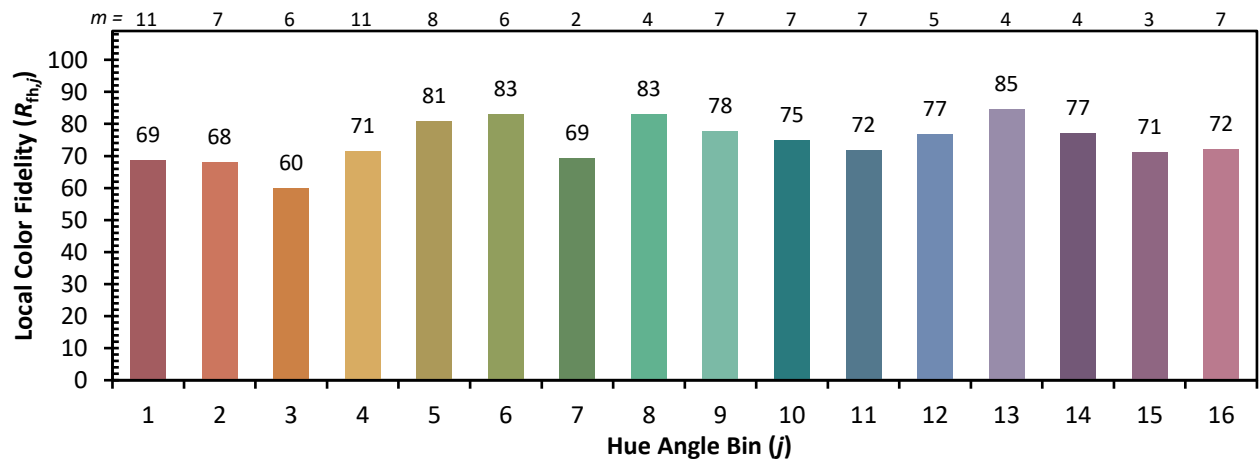
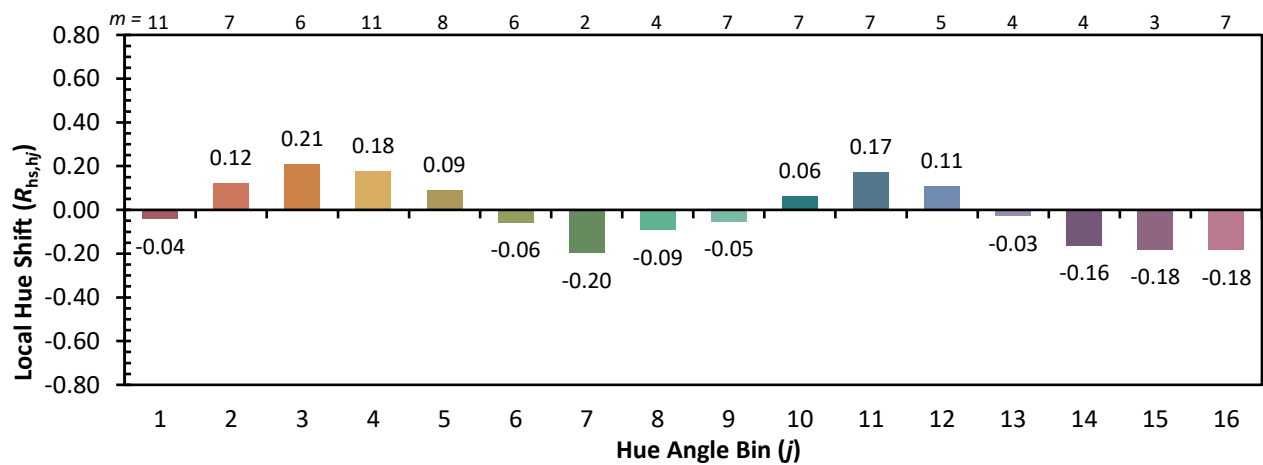
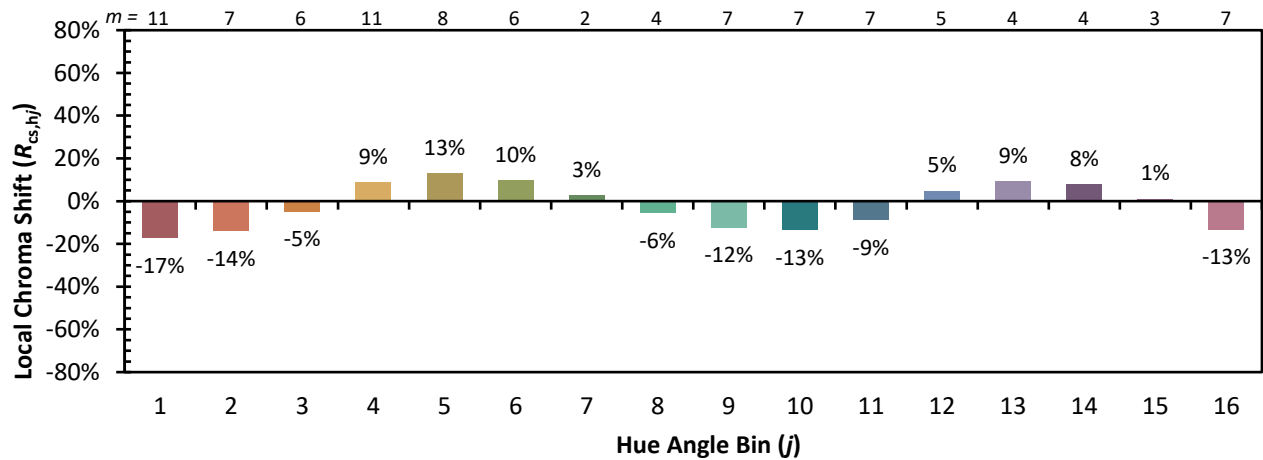


Individual Sample Fidelity Index ($R_{f,i}$)

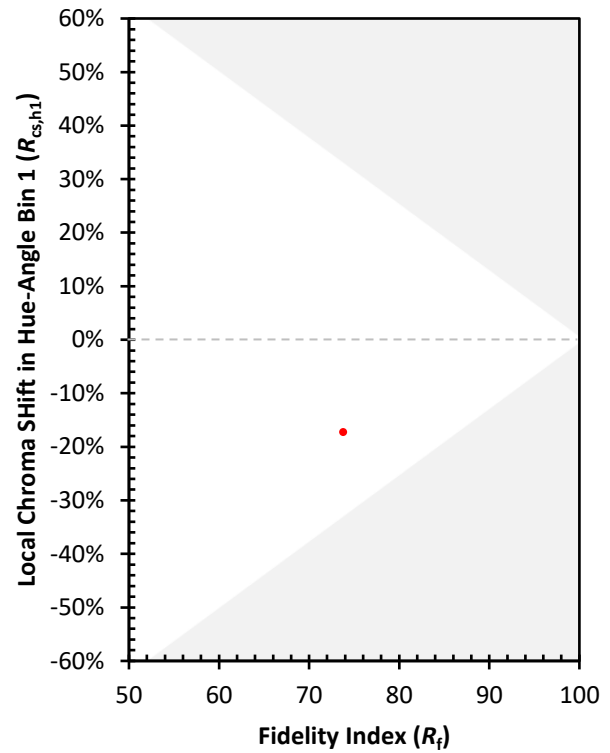
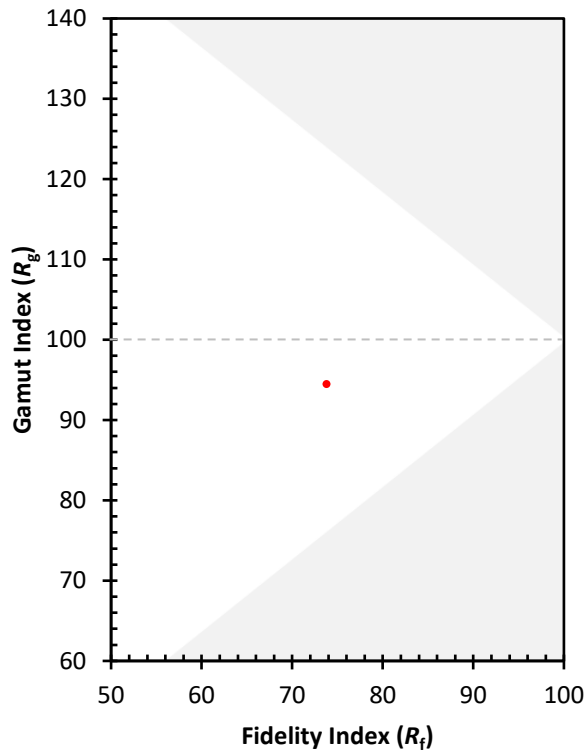
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 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)