

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: P1067983

Luminaire Tested: **NAV-SA5C-735-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067983
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA5C-735-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 5xLight Square PACKAGE
70CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22172.8 lumens
Efficiency: N/A
Efficacy: 94.0 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): 236
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



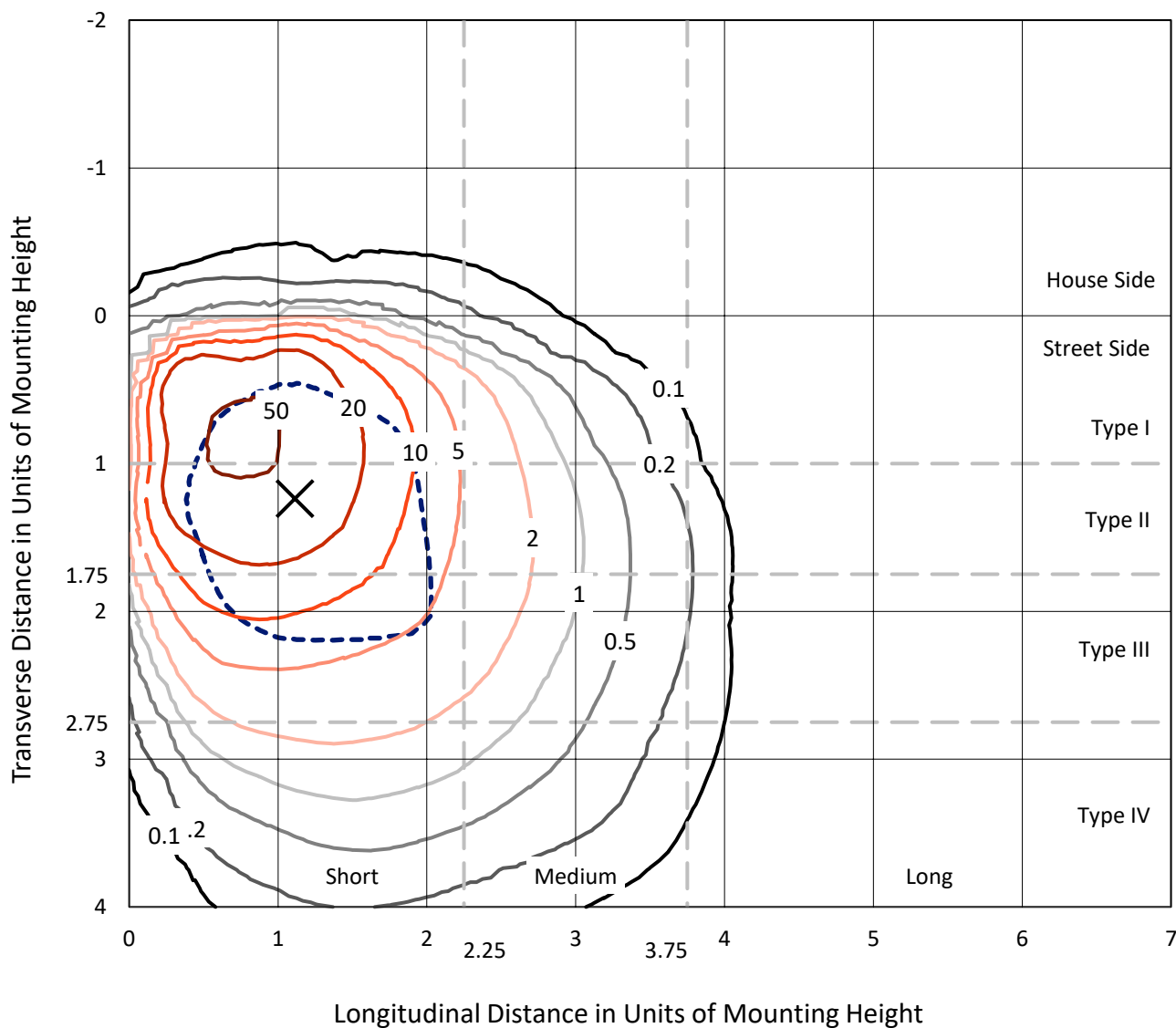
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

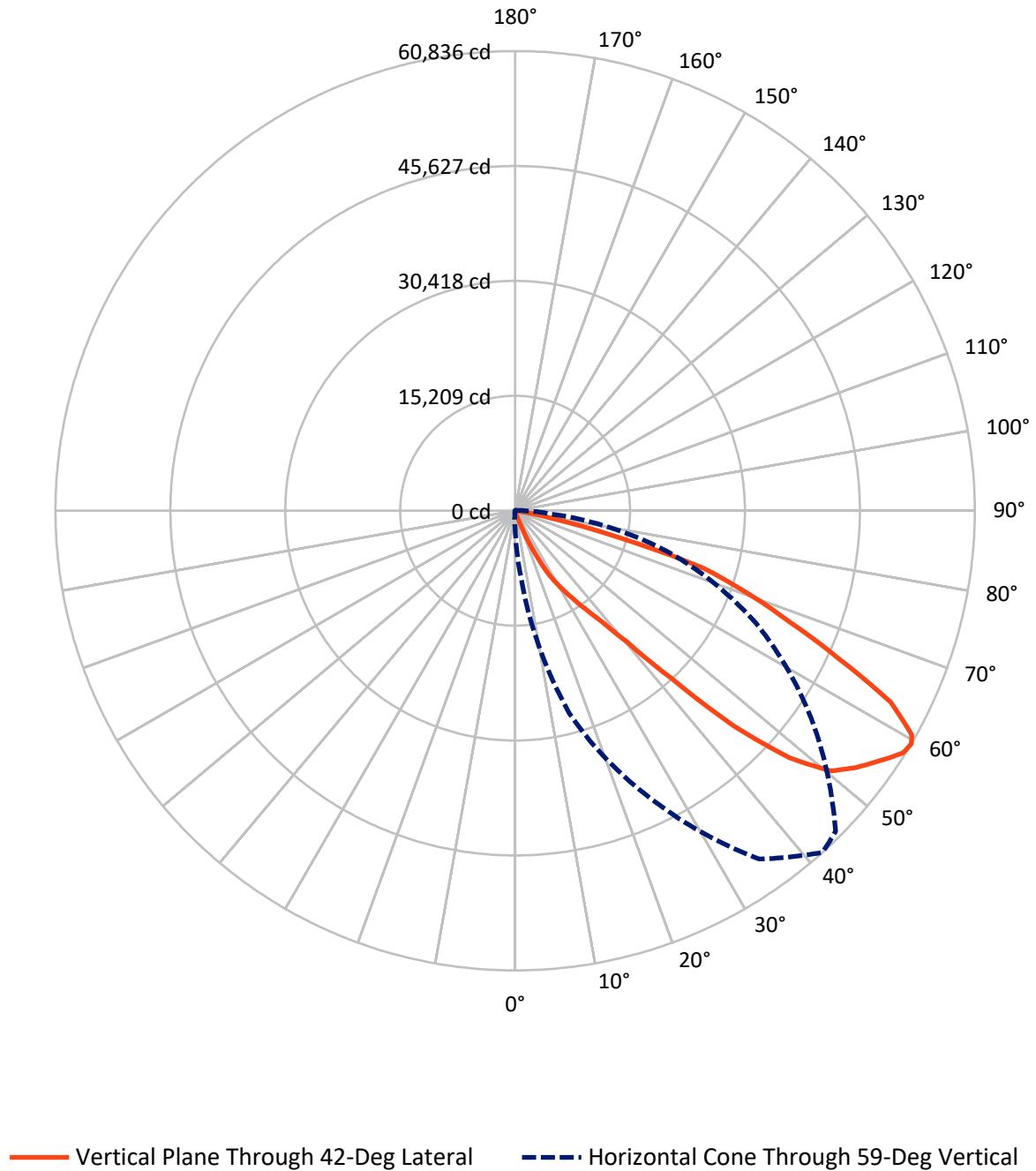


Based on 15 foot mounting height. Maximum calculated value = 65.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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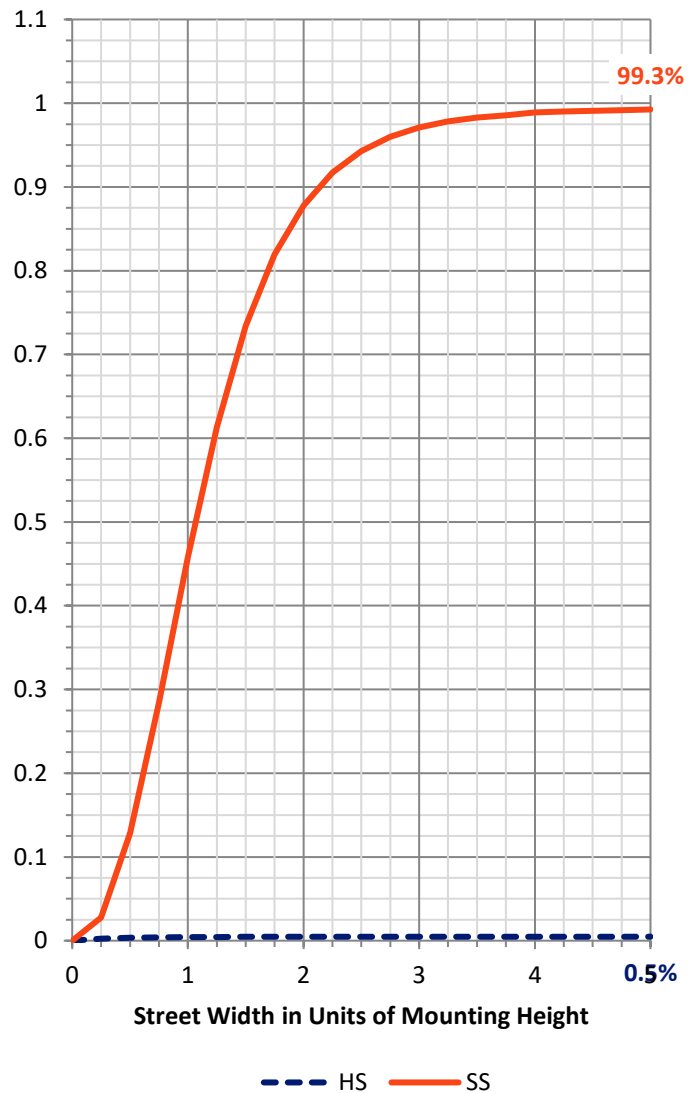
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	106.8	0.0	106.8
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	22065.9	0.0	22065.9
	% Fixture	99.5	0.0	99.5
Total	Lumens	22172.8	0.0	22172.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.5	0.0
10°-20°	32.3	0.1
20°-30°	413.6	1.9
30°-40°	1394.4	6.3
40°-50°	4211.6	19.0
50°-60°	7434.6	33.5
60°-70°	6546.2	29.5
70°-80°	2083.7	9.4
80°-90°	49.9	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°	22172.8	100.0
0°-180°	22172.8	100.0



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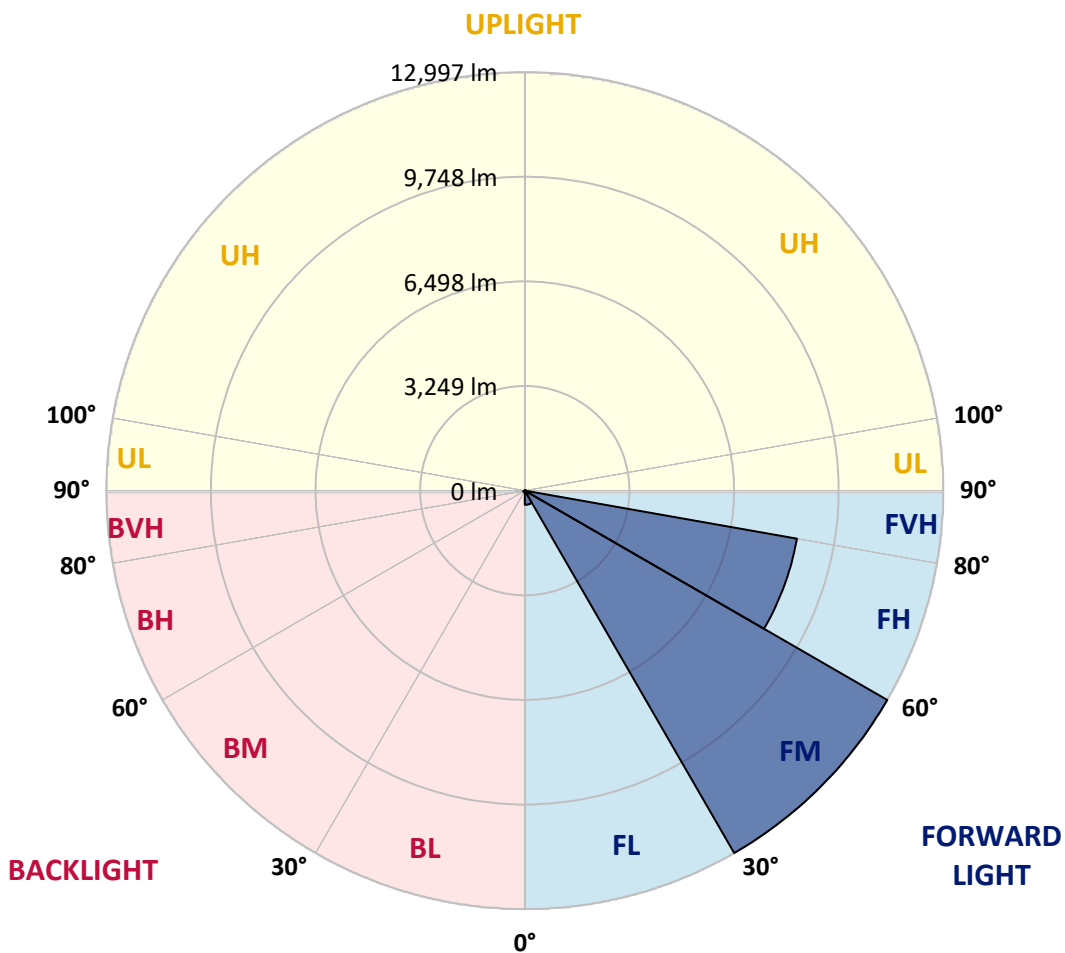
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	440.5	2.0			
FM	(30°-60°)	12996.9	58.6			
FH	(60°-80°)	8581.1	38.7			G4/12000
FVH	(80°-90°)	47.4	0.2			G1/100
BL	(0°-30°)	11.9	0.1	B0/110		
BM	(30°-60°)	43.6	0.2	B0/220		
BH	(60°-80°)	48.9	0.2	B0/110		G0/110
BVH	(80°-90°)	2.4	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
2.5°	97.3	97.3	90.4	83.4	76.5	69.5	69.5	69.5	62.6	62.6	55.6
5°	111.2	111.2	104.3	97.3	97.3	90.4	90.4	83.4	76.5	76.5	69.5
7.5°	118.2	118.2	118.2	118.2	111.2	111.2	111.2	104.3	97.3	90.4	83.4
10°	125.1	132.1	139.0	139.0	139.0	139.0	139.0	132.1	118.2	111.2	97.3
12.5°	139.0	146.0	159.9	173.8	173.8	180.7	173.8	166.8	152.9	132.1	111.2
15°	152.9	166.8	187.7	215.5	243.3	250.3	250.3	229.4	201.6	159.9	132.1
17.5°	173.8	194.7	250.3	340.6	438.0	514.4	514.4	458.8	319.8	208.6	152.9
20°	187.7	229.4	403.2	820.3	1251.3	1571.1	1508.6	1334.8	716.0	326.7	166.8
22.5°	208.6	292.0	855.1	2155.1	3336.9	3920.9	3781.8	2871.1	1605.9	584.0	201.6
25°	236.4	424.1	1696.3	4039.1	6201.1	6833.7	6743.3	5359.9	2926.7	980.2	257.2
27.5°	292.0	625.7	2718.2	6124.6	9148.7	9690.9	9656.2	7848.7	4678.6	1578.1	333.7
30°	368.5	910.7	4032.1	8321.4	11102.2	11651.4	11477.6	9670.1	6312.3	2412.3	431.0
32.5°	458.8	1272.2	5220.9	9941.2	12902.7	13625.7	13417.2	11255.1	7626.2	3121.4	639.6
35°	597.9	1626.7	6395.7	11373.3	14981.3	15899.0	15551.4	12888.8	8759.4	3920.9	771.7
37.5°	667.4	1835.3	7473.3	12930.5	17317.2	18568.5	18304.3	14953.5	9913.4	4942.8	945.5
40°	674.3	2085.6	8592.5	14960.5	20619.3	22850.9	22378.2	18499.0	12061.5	6256.7	1216.6
42.5°	695.2	2461.0	10045.5	18422.5	27105.4	30310.3	29775.0	25019.9	16934.8	8891.5	1724.1
45°	792.5	3170.1	13007.0	24894.7	36010.8	40710.3	40091.6	34106.0	23740.7	13848.2	2940.7
47.5°	1133.2	4769.0	18200.1	31881.4	45117.8	48864.9	48711.9	41266.5	29907.1	18930.0	4984.5
50°	1821.4	7320.3	24109.2	37755.7	50915.7	54134.4	53752.1	44255.8	33424.7	22399.0	6388.8
52.5°	2433.2	9760.5	27821.5	39917.8	52646.7	56484.2	56018.4	45347.2	34349.3	23420.9	6778.1
55°	2586.1	10643.4	28926.8	40585.2	53793.8	58472.4	57798.1	46077.2	34467.5	22691.0	6131.6
57.5°	2509.6	9809.1	28210.8	41238.6	55392.7	60516.3	59619.5	47502.3	34863.8	21453.6	5102.7
59°	2377.5	8780.2	27765.9	41760.0	56275.6	60836.0	59994.9	47815.1	35127.9	20890.4	4477.0
60°	2224.6	8085.1	27418.3	42100.7	56220.0	60335.5	59466.5	47669.1	35232.2	20403.8	4178.1
62.5°	1717.1	6451.4	26917.7	41857.4	52709.3	55768.1	55274.5	44095.9	33702.8	18846.6	3295.2
65°	1334.8	4935.8	25082.4	37331.7	44853.6	46911.4	46758.5	37338.6	28363.7	16246.6	2377.5
67.5°	1056.7	3601.1	21210.2	30233.8	36087.3	39014.0	38902.8	30310.3	21530.0	12416.1	1710.2
70°	862.0	2565.2	14543.4	22795.3	28864.3	32548.8	32388.9	24394.2	15954.6	7876.5	1244.4
72.5°	729.9	1640.6	8822.0	17185.1	24088.3	26194.7	25729.0	19680.8	11602.7	4289.3	987.2
75°	618.7	1008.0	4372.7	10712.9	14348.7	14334.8	13869.0	10420.9	6228.9	2099.5	785.6
77.5°	500.5	709.1	1717.1	2940.7	4525.7	5603.2	5512.9	3691.5	1863.1	611.8	486.6
80°	326.7	333.7	458.8	806.4	1244.4	1376.5	1564.2	1126.2	542.2	292.0	201.6
82.5°	146.0	159.9	208.6	264.2	264.2	243.3	215.5	159.9	118.2	97.3	48.7
85°	34.8	48.7	34.8	41.7	34.8	27.8	27.8	13.9	0.0	0.0	0.0
87.5°	7.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
2.5°	55.6	55.6	55.6	48.7	48.7	48.7	41.7	41.7	41.7	34.8	34.8
5°	69.5	62.6	55.6	55.6	48.7	48.7	41.7	34.8	34.8	34.8	27.8
7.5°	76.5	69.5	62.6	55.6	48.7	41.7	41.7	34.8	27.8	27.8	27.8
10°	90.4	83.4	69.5	55.6	48.7	41.7	34.8	34.8	27.8	20.9	20.9
12.5°	104.3	90.4	76.5	62.6	48.7	41.7	34.8	34.8	27.8	20.9	13.9
15°	118.2	104.3	83.4	62.6	48.7	41.7	34.8	34.8	20.9	13.9	7.0
17.5°	132.1	111.2	83.4	69.5	48.7	41.7	34.8	27.8	13.9	7.0	0.0
20°	139.0	118.2	90.4	69.5	48.7	41.7	34.8	20.9	7.0	0.0	0.0
22.5°	152.9	132.1	97.3	69.5	48.7	34.8	20.9	7.0	0.0	0.0	0.0
25°	180.7	139.0	97.3	69.5	48.7	34.8	13.9	0.0	0.0	0.0	0.0
27.5°	201.6	152.9	97.3	69.5	48.7	27.8	7.0	0.0	0.0	0.0	0.0
30°	236.4	166.8	104.3	69.5	48.7	20.9	7.0	0.0	0.0	0.0	0.0
32.5°	292.0	180.7	104.3	69.5	41.7	20.9	0.0	0.0	0.0	0.0	0.0
35°	354.5	208.6	104.3	69.5	41.7	20.9	0.0	0.0	0.0	0.0	0.0
37.5°	361.5	222.5	104.3	69.5	41.7	13.9	0.0	0.0	0.0	0.0	0.0
40°	375.4	208.6	111.2	69.5	41.7	13.9	0.0	0.0	0.0	0.0	0.0
42.5°	431.0	194.7	118.2	69.5	41.7	13.9	0.0	0.0	0.0	0.0	0.0
45°	639.6	201.6	118.2	76.5	41.7	20.9	0.0	0.0	0.0	0.0	0.0
47.5°	1112.3	208.6	111.2	76.5	41.7	20.9	0.0	0.0	0.0	0.0	0.0
50°	1425.1	243.3	111.2	83.4	48.7	13.9	0.0	0.0	0.0	0.0	0.0
52.5°	1515.5	285.0	111.2	90.4	62.6	7.0	0.0	0.0	0.0	0.0	0.0
55°	1473.8	333.7	118.2	97.3	76.5	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1362.6	361.5	125.1	104.3	83.4	0.0	0.0	0.0	0.0	0.0	0.0
59°	1244.4	382.4	146.0	111.2	83.4	0.0	0.0	0.0	0.0	0.0	0.0
60°	1147.1	403.2	152.9	118.2	83.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	924.6	431.0	166.8	139.0	69.5	0.0	0.0	0.0	0.0	0.0	0.0
65°	806.4	451.9	173.8	152.9	62.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	736.9	465.8	187.7	159.9	55.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	681.3	458.8	201.6	152.9	48.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	618.7	438.0	243.3	139.0	41.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	556.2	396.3	264.2	125.1	27.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	403.2	333.7	243.3	111.2	13.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	173.8	180.7	173.8	83.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	34.8	41.7	34.8	20.9	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°	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
2.5°	34.8	34.8	34.8	34.8	41.7	41.7	55.6	69.5	83.4	90.4	90.4
5°	27.8	27.8	27.8	27.8	27.8	34.8	41.7	55.6	76.5	83.4	83.4
7.5°	20.9	20.9	20.9	20.9	20.9	20.9	34.8	48.7	69.5	76.5	83.4
10°	20.9	13.9	13.9	7.0	7.0	13.9	20.9	41.7	62.6	69.5	76.5
12.5°	13.9	7.0	7.0	0.0	0.0	7.0	13.9	34.8	55.6	62.6	69.5
15°	7.0	0.0	0.0	0.0	0.0	0.0	7.0	27.8	48.7	55.6	69.5
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.9	41.7	55.6	62.6
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.9	34.8	48.7	55.6
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	27.8	41.7	48.7
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.9	27.8	34.8
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.9	20.9	27.8
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.9	20.9	27.8
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	13.9	20.9
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	13.9	20.9
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	13.9	13.9
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	13.9
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	13.9
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	13.9
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	13.9
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	13.9
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	7.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	7.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	7.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	13.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	13.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	7.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	7.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	7.0
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):

	285°	295°	305°	315°	318°	325°	335°	345°	355°	360°
0°	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
2.5°	97.3	97.3	90.4	83.4	83.4	83.4	90.4	97.3	97.3	97.3
5°	90.4	90.4	83.4	83.4	83.4	83.4	90.4	104.3	111.2	111.2
7.5°	90.4	90.4	83.4	83.4	83.4	83.4	90.4	104.3	111.2	118.2
10°	83.4	83.4	83.4	83.4	76.5	83.4	90.4	104.3	125.1	125.1
12.5°	83.4	83.4	83.4	83.4	76.5	83.4	97.3	111.2	132.1	139.0
15°	83.4	83.4	83.4	76.5	76.5	83.4	97.3	118.2	139.0	152.9
17.5°	76.5	83.4	83.4	76.5	76.5	83.4	97.3	118.2	152.9	173.8
20°	69.5	76.5	83.4	76.5	76.5	76.5	97.3	118.2	159.9	187.7
22.5°	62.6	69.5	76.5	76.5	69.5	76.5	97.3	125.1	173.8	208.6
25°	55.6	62.6	62.6	69.5	69.5	76.5	97.3	125.1	180.7	236.4
27.5°	41.7	48.7	55.6	62.6	62.6	76.5	97.3	132.1	194.7	292.0
30°	34.8	41.7	48.7	55.6	62.6	76.5	97.3	132.1	208.6	368.5
32.5°	34.8	41.7	48.7	55.6	62.6	69.5	97.3	139.0	229.4	458.8
35°	27.8	34.8	41.7	55.6	55.6	69.5	97.3	139.0	250.3	597.9
37.5°	27.8	34.8	41.7	55.6	55.6	69.5	97.3	139.0	305.9	667.4
40°	20.9	27.8	34.8	55.6	55.6	69.5	104.3	146.0	312.8	674.3
42.5°	20.9	27.8	34.8	48.7	55.6	69.5	104.3	146.0	292.0	695.2
45°	20.9	27.8	34.8	55.6	62.6	76.5	104.3	152.9	285.0	792.5
47.5°	20.9	27.8	34.8	55.6	69.5	76.5	104.3	152.9	292.0	1133.2
50°	20.9	27.8	34.8	55.6	76.5	76.5	104.3	152.9	319.8	1821.4
52.5°	13.9	20.9	27.8	48.7	62.6	83.4	111.2	146.0	340.6	2433.2
55°	13.9	13.9	20.9	41.7	55.6	90.4	118.2	146.0	396.3	2586.1
57.5°	13.9	13.9	20.9	34.8	48.7	97.3	125.1	146.0	458.8	2509.6
59°	13.9	13.9	13.9	27.8	41.7	97.3	125.1	152.9	465.8	2377.5
60°	13.9	13.9	13.9	27.8	41.7	97.3	132.1	159.9	472.7	2224.6
62.5°	7.0	7.0	7.0	27.8	34.8	97.3	146.0	194.7	486.6	1717.1
65°	13.9	13.9	7.0	20.9	34.8	83.4	166.8	208.6	493.6	1334.8
67.5°	13.9	13.9	13.9	27.8	34.8	83.4	173.8	215.5	493.6	1056.7
70°	13.9	13.9	13.9	27.8	41.7	83.4	173.8	222.5	486.6	862.0
72.5°	13.9	13.9	13.9	27.8	41.7	76.5	159.9	229.4	465.8	729.9
75°	13.9	13.9	13.9	20.9	34.8	69.5	152.9	250.3	424.1	618.7
77.5°	13.9	13.9	13.9	13.9	27.8	55.6	139.0	278.1	375.4	500.5
80°	20.9	13.9	13.9	13.9	20.9	48.7	132.1	271.1	312.8	326.7
82.5°	20.9	13.9	13.9	7.0	13.9	34.8	104.3	208.6	159.9	146.0
85°	13.9	13.9	13.9	7.0	7.0	20.9	48.7	62.6	48.7	34.8
87.5°	13.9	13.9	13.9	7.0	7.0	7.0	7.0	7.0	7.0	7.0
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

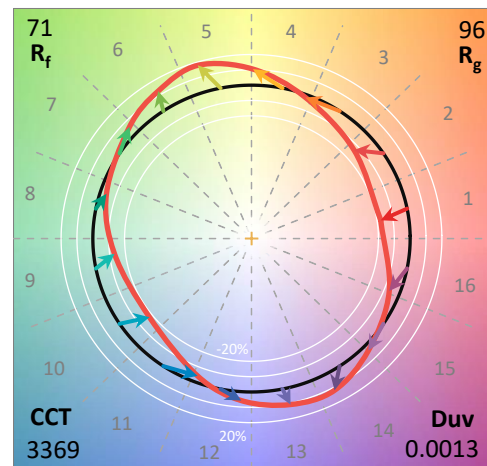
Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

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

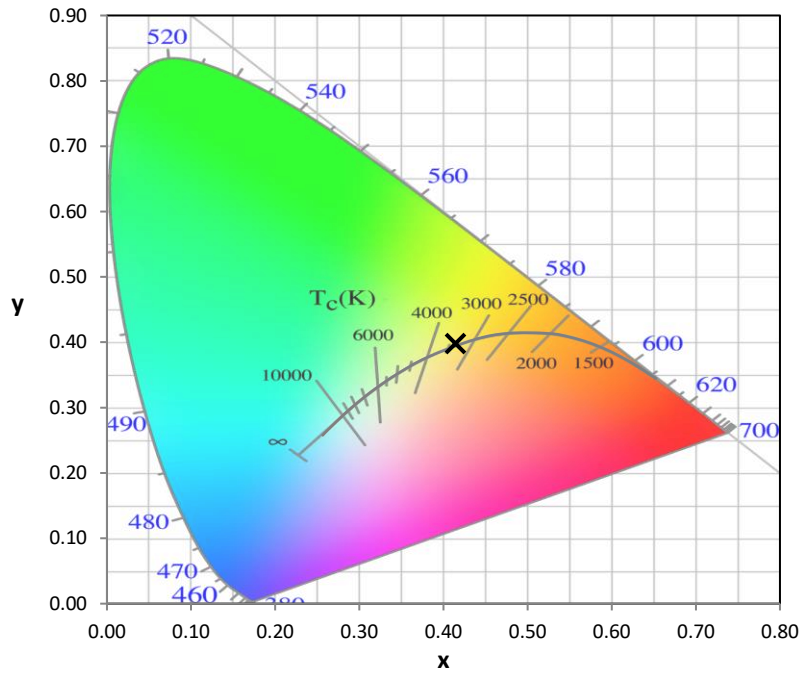
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-5

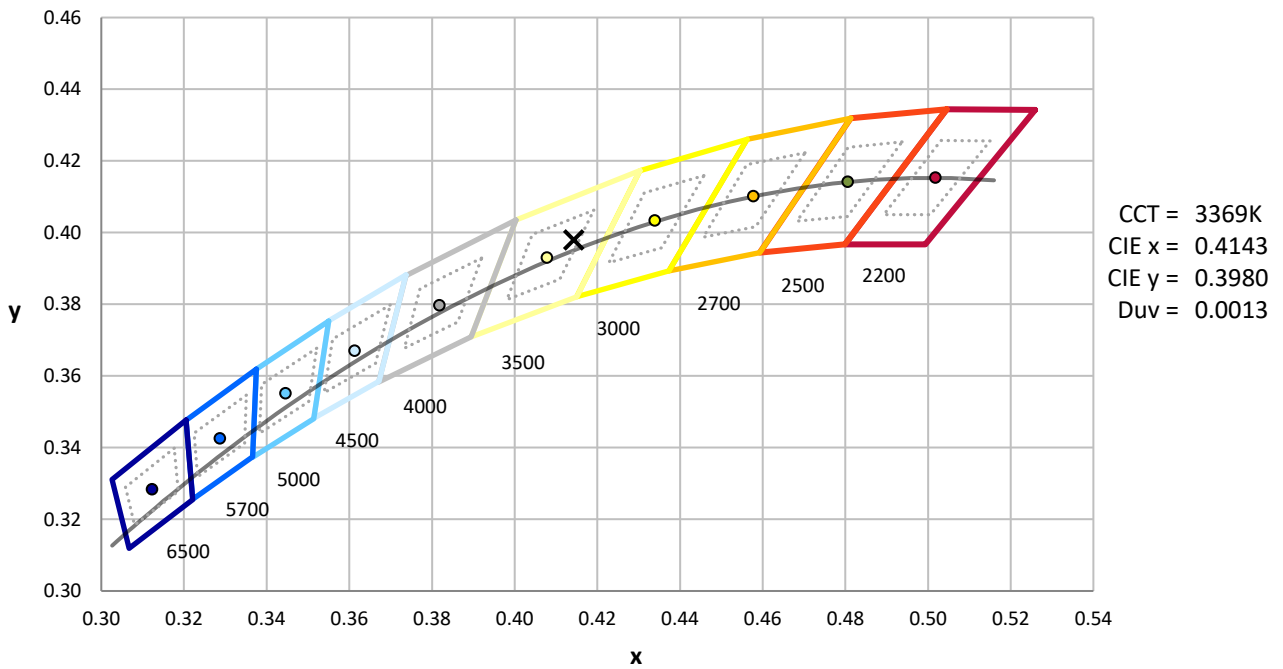
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



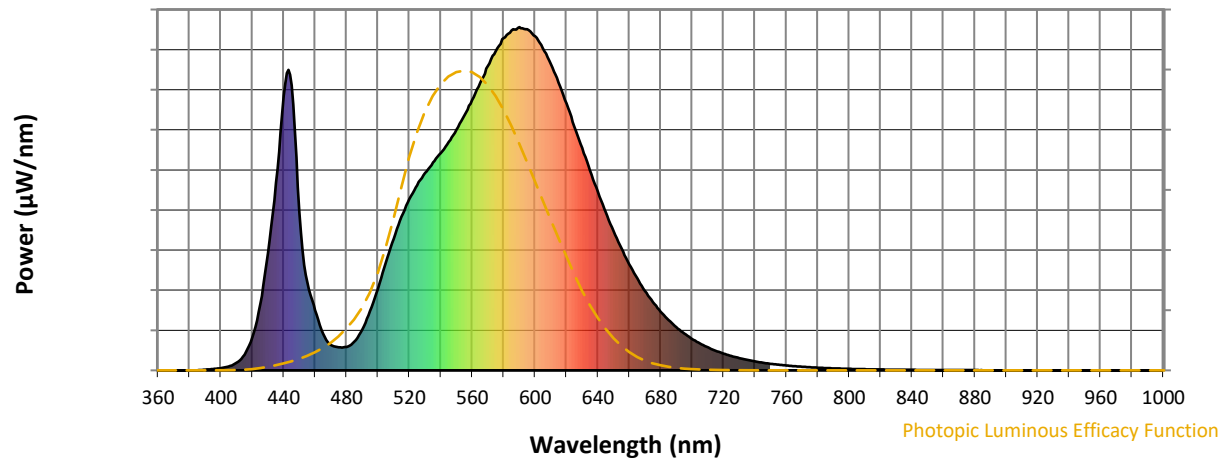
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

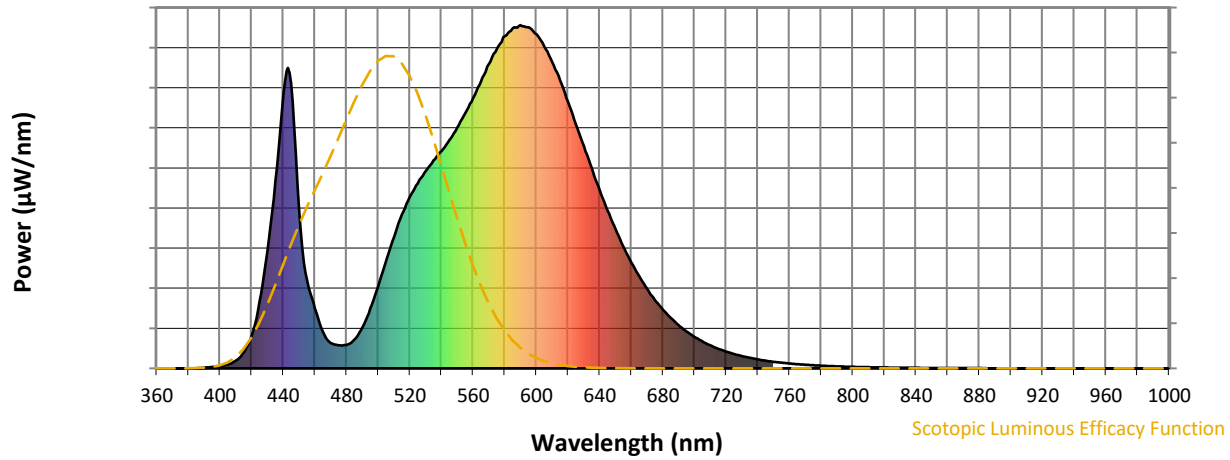


Photopic Lumens: NR

λ (nm)	Power W/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			

REPORT NUMBER: SP1-2407-184-5

Scotopic Flux vs. Wavelength



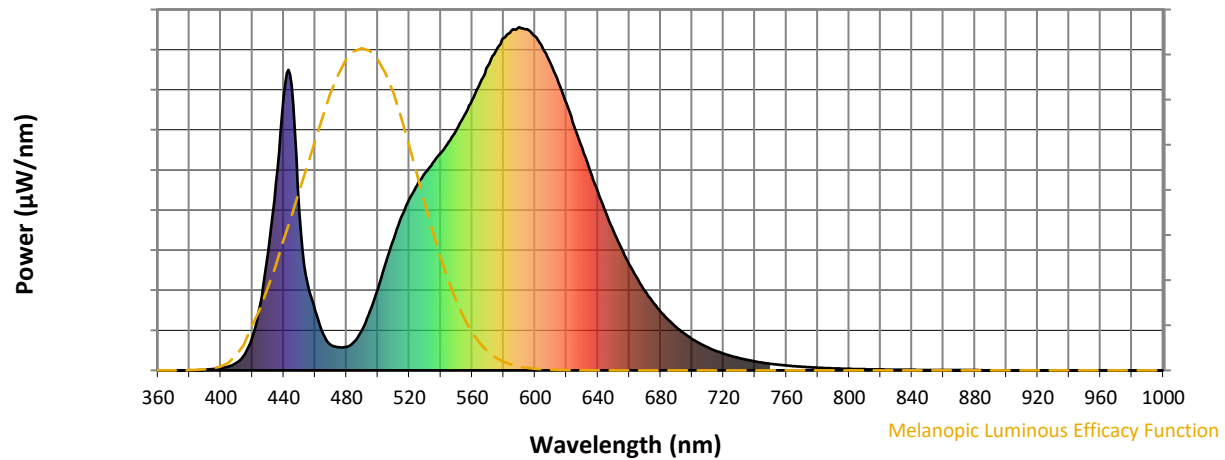
Scotopic Lumens: NR

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			

REPORT NUMBER: SP1-2407-184-5

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.36

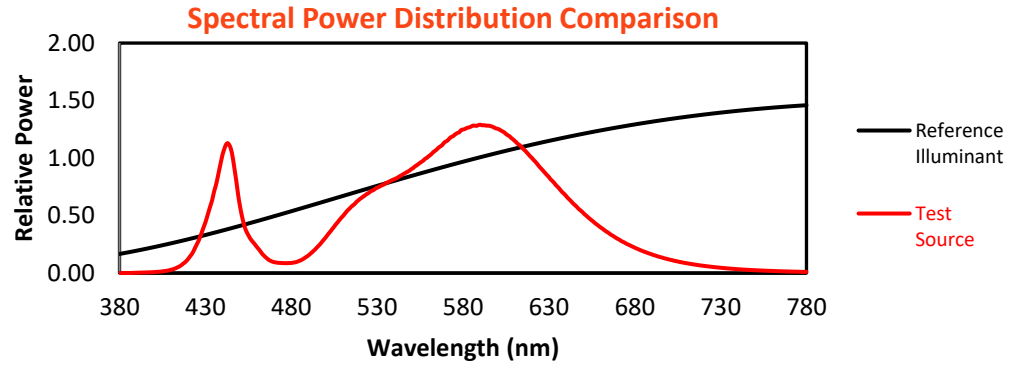
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630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

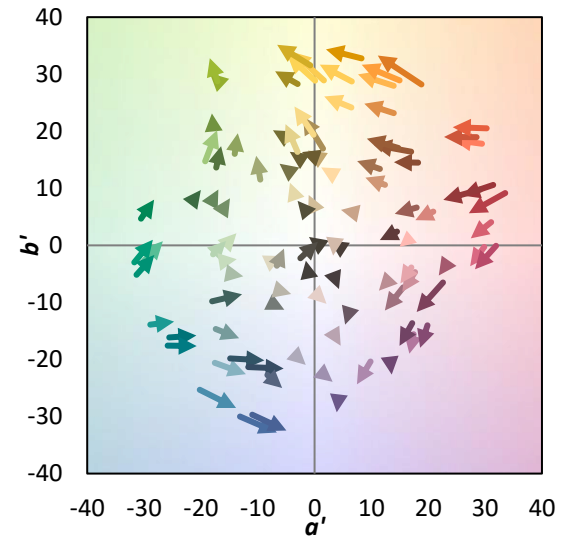
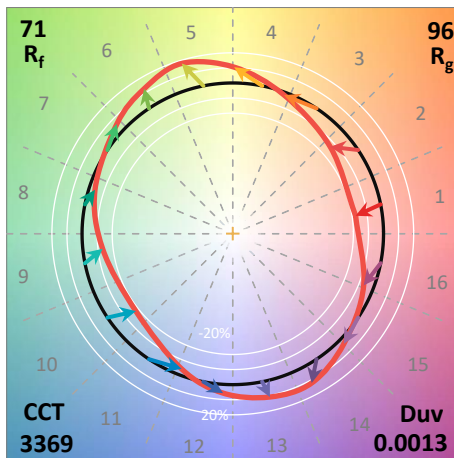
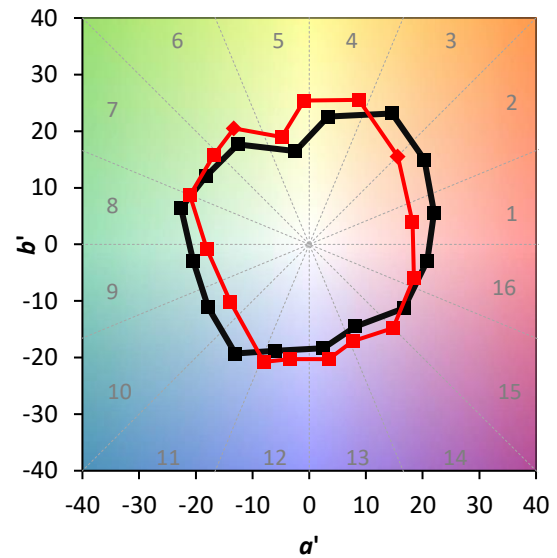
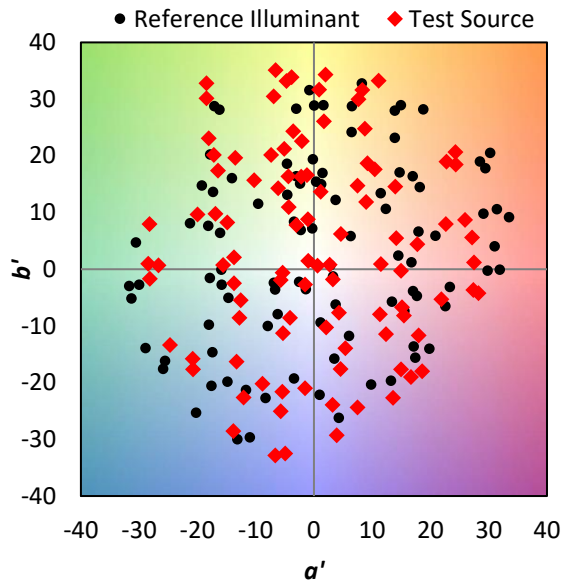
TM-30-18

Summary

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

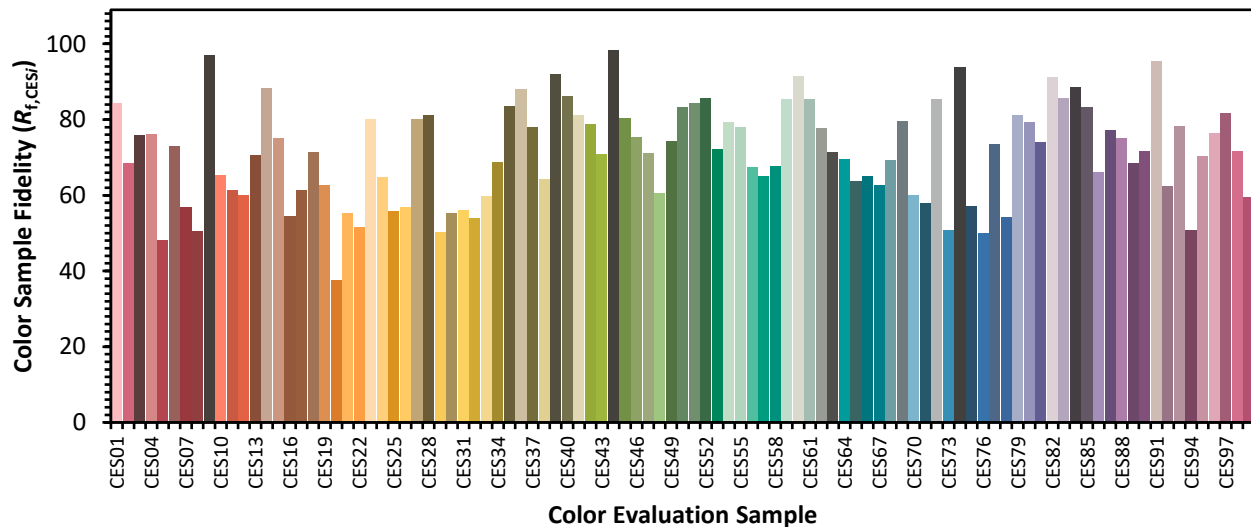


Color Vector Graphics

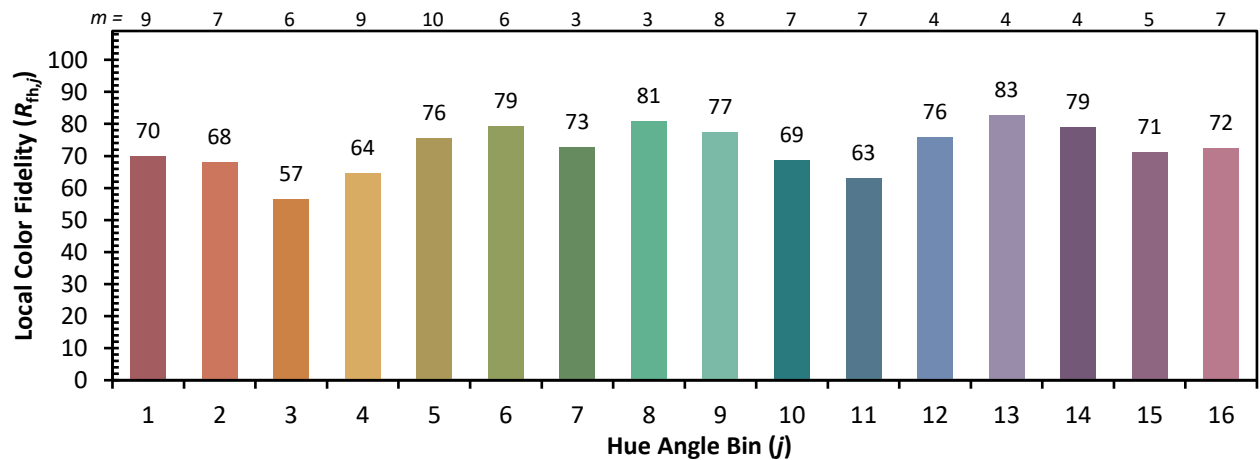
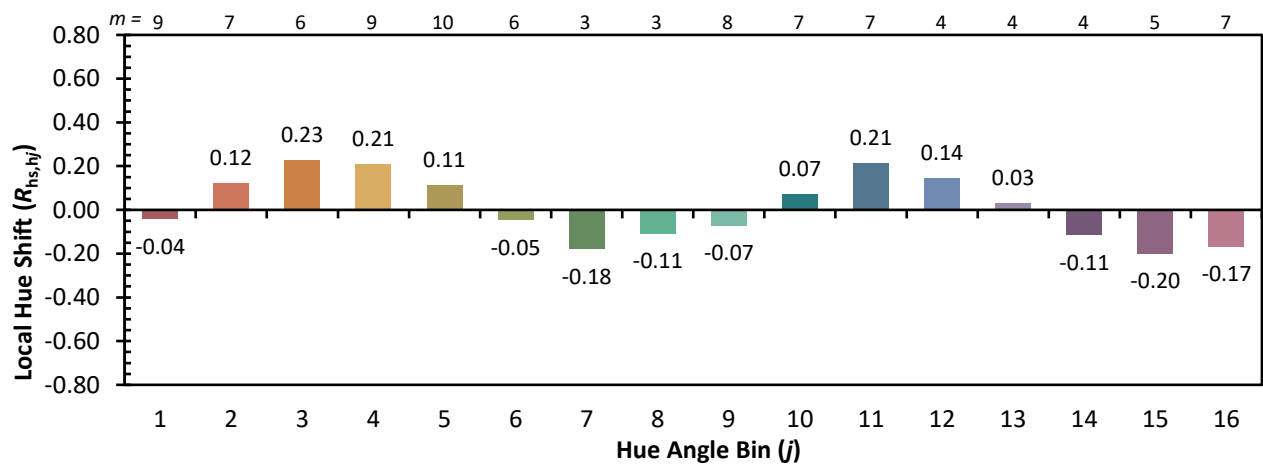
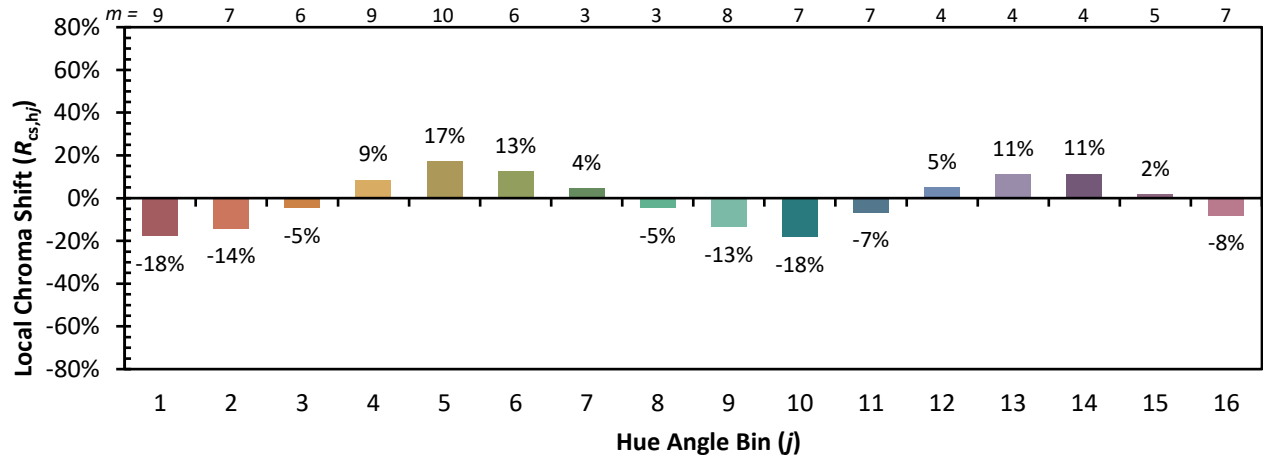


Individual Sample Fidelity Index ($R_{f,i}$)

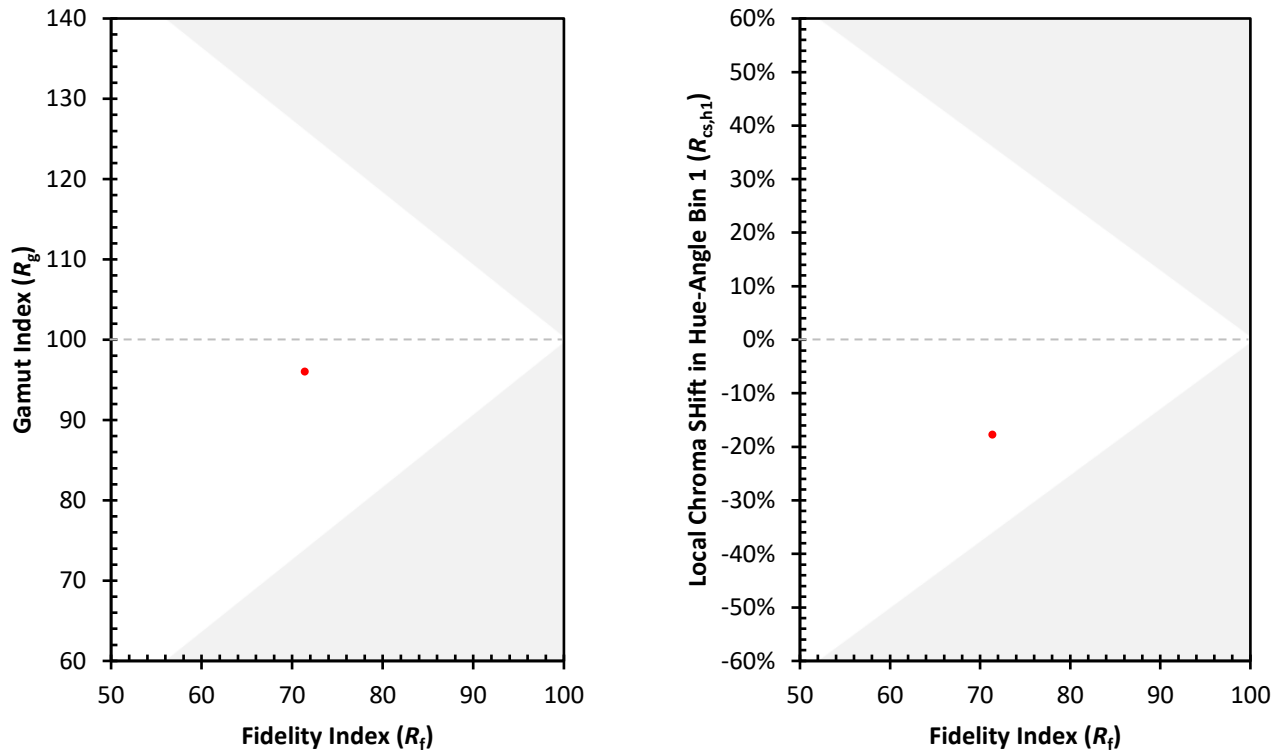
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82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