

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: P1067959

Luminaire Tested: **NAV-SA5C-730-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067959
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA5C-730-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 5xLight Square PACKAGE
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21719.7 lumens
Efficiency: N/A
Efficacy: 92.0 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



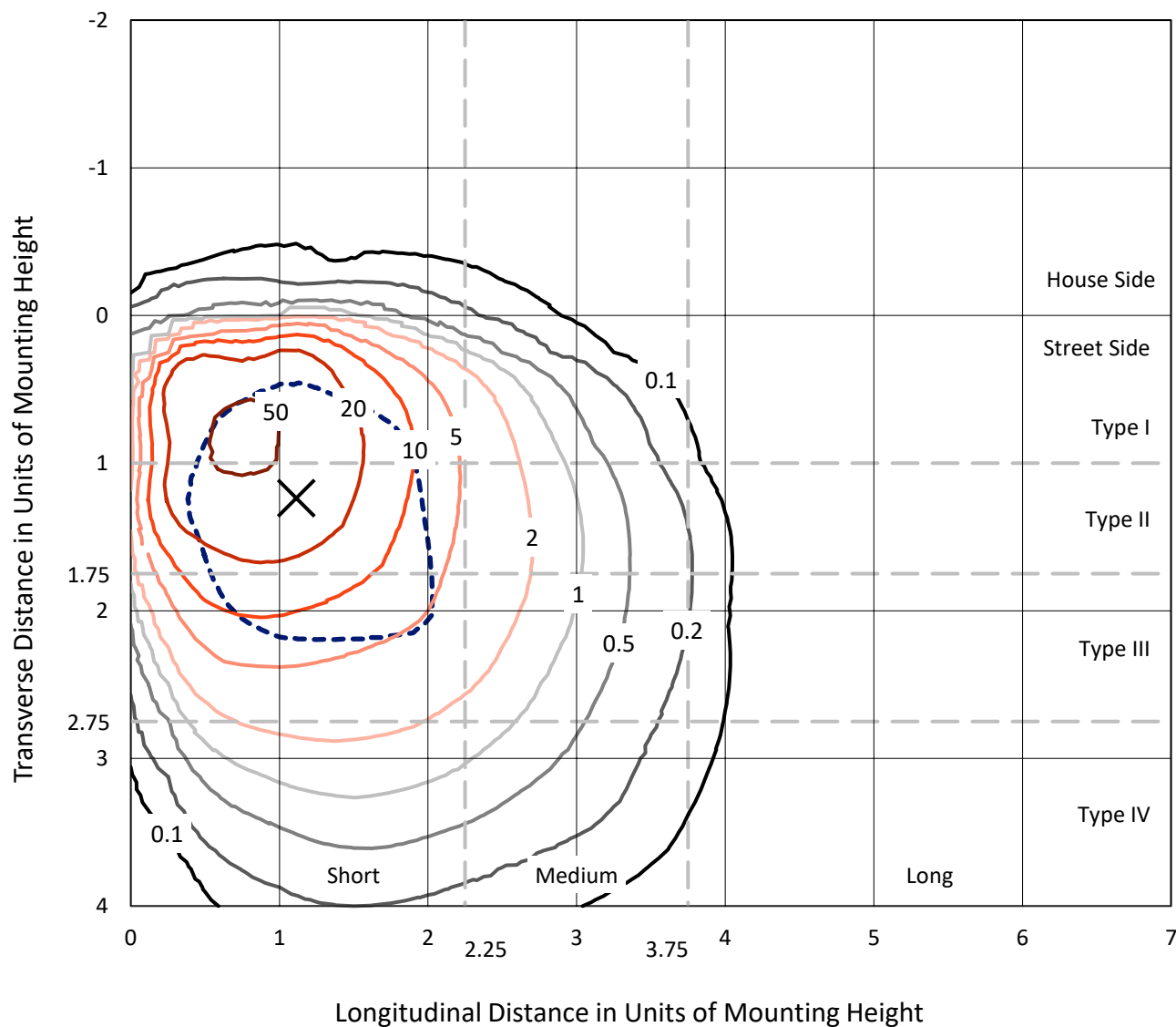
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

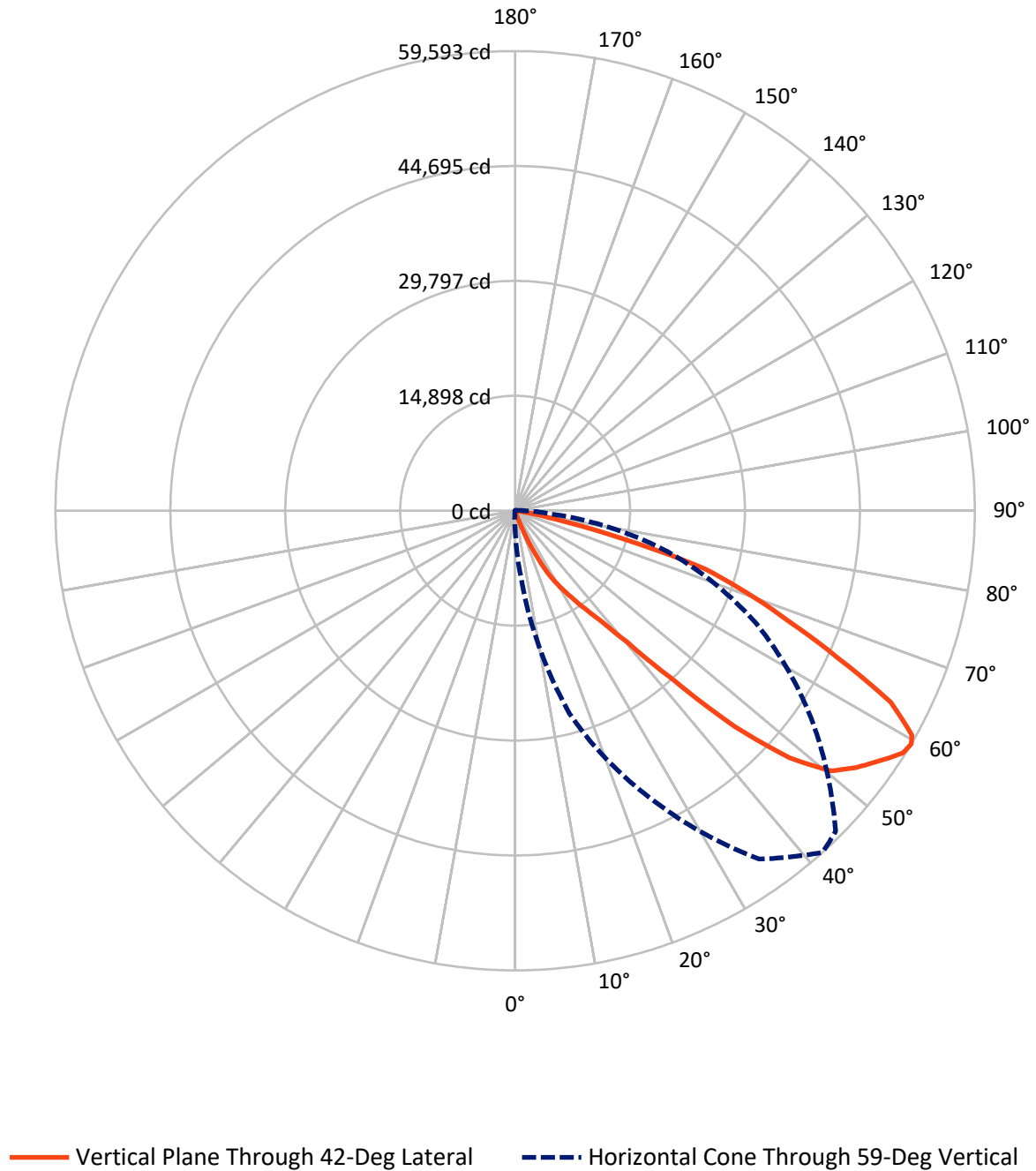


Based on 15 foot mounting height. Maximum calculated value = 64.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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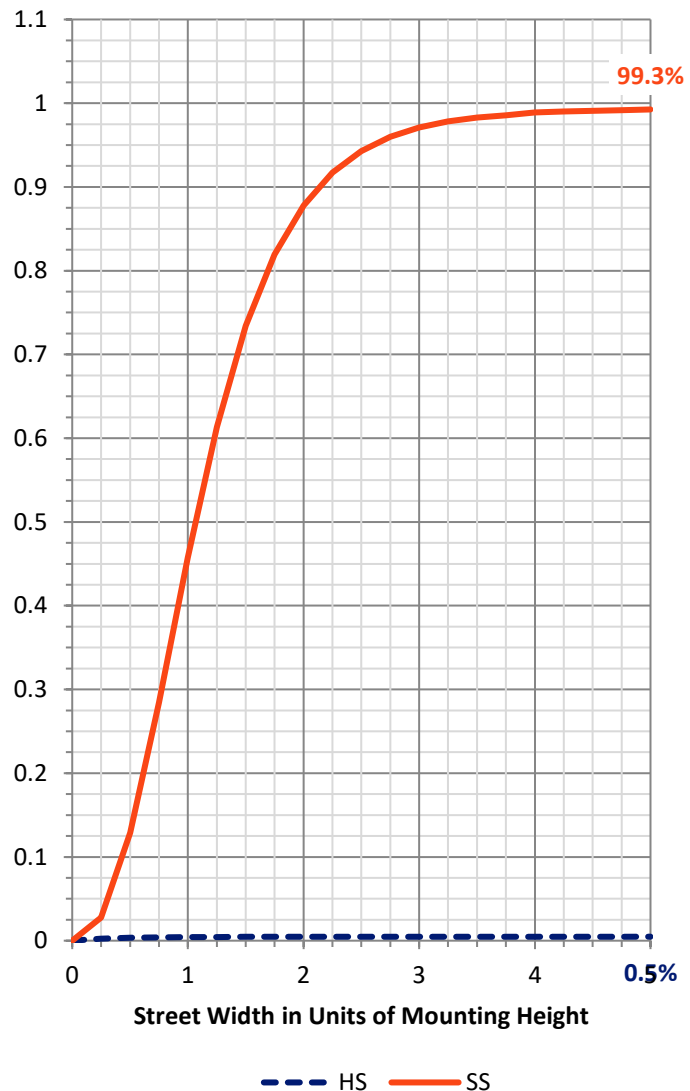
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	104.6	0.0	104.6
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	21615.1	0.0	21615.1
	% Fixture	99.5	0.0	99.5
Total	Lumens	21719.7	0.0	21719.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.4	0.0
10°-20°	31.7	0.1
20°-30°	405.1	1.9
30°-40°	1365.9	6.3
40°-50°	4125.6	19.0
50°-60°	7282.7	33.5
60°-70°	6412.5	29.5
70°-80°	2041.1	9.4
80°-90°	48.8	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°	21719.7	100.0
0°-180°	21719.7	100.0



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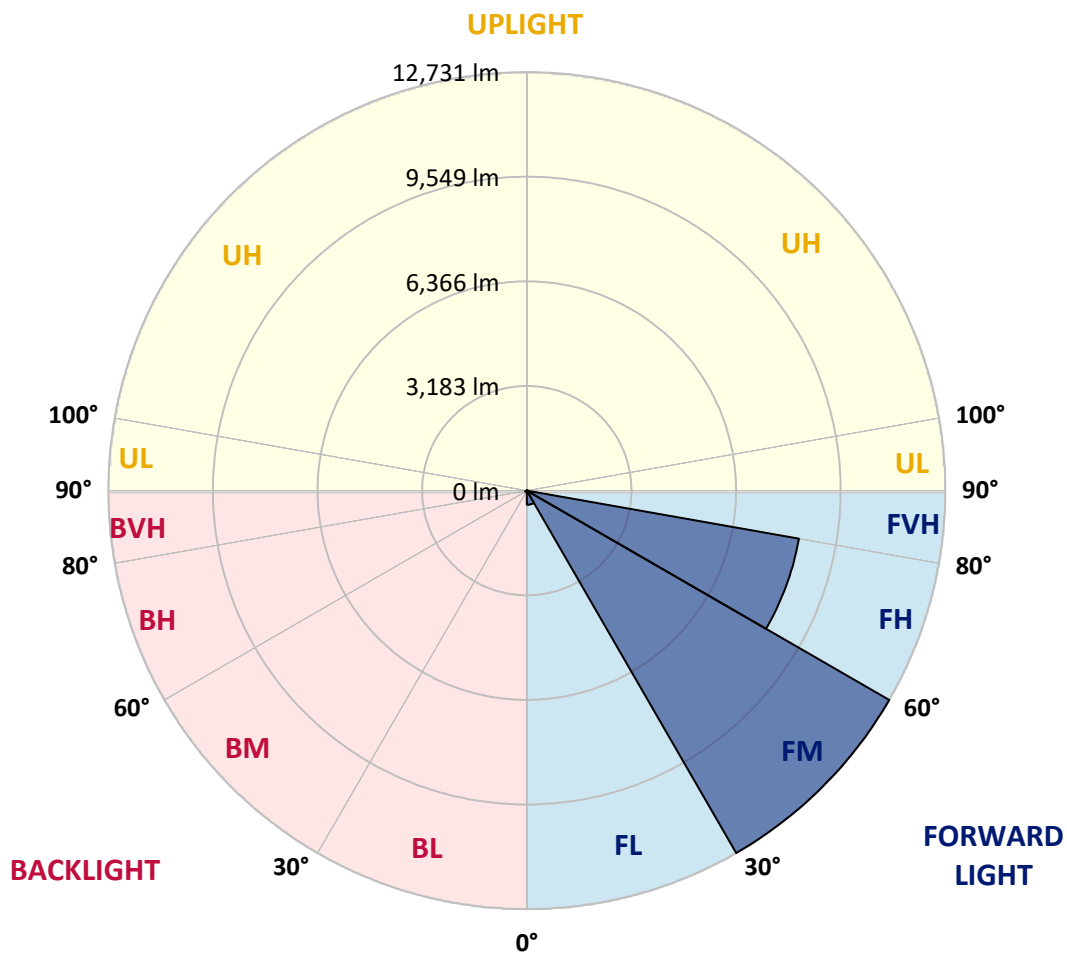
CATALOG NUMBER: NAV-SA5C-730-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	431.5	2.0			
FM	(30°-60°)	12731.4	58.6			
FH	(60°-80°)	8405.7	38.7			G4/12000
FVH	(80°-90°)	46.5	0.2			G1/100
BL	(0°-30°)	11.7	0.1	B0/110		
BM	(30°-60°)	42.8	0.2	B0/220		
BH	(60°-80°)	47.9	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°	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
2.5°	95.3	95.3	88.5	81.7	74.9	68.1	68.1	68.1	61.3	61.3	54.5
5°	109.0	109.0	102.1	95.3	95.3	88.5	88.5	81.7	74.9	74.9	68.1
7.5°	115.8	115.8	115.8	115.8	109.0	109.0	109.0	102.1	95.3	88.5	81.7
10°	122.6	129.4	136.2	136.2	136.2	136.2	136.2	129.4	115.8	109.0	95.3
12.5°	136.2	143.0	156.6	170.2	170.2	177.1	170.2	163.4	149.8	129.4	109.0
15°	149.8	163.4	183.9	211.1	238.3	245.2	245.2	224.7	197.5	156.6	129.4
17.5°	170.2	190.7	245.2	333.7	429.0	503.9	503.9	449.5	313.3	204.3	149.8
20°	183.9	224.7	395.0	803.6	1225.8	1539.0	1477.7	1307.5	701.4	320.1	163.4
22.5°	204.3	286.0	837.6	2111.1	3268.7	3840.8	3704.6	2812.5	1573.1	572.0	197.5
25°	231.5	415.4	1661.6	3956.5	6074.4	6694.1	6605.6	5250.4	2867.0	960.2	252.0
27.5°	286.0	612.9	2662.7	5999.5	8961.8	9493.0	9458.9	7688.3	4583.0	1545.8	326.9
30°	360.9	892.1	3949.7	8151.4	10875.4	11413.3	11243.1	9472.5	6183.4	2363.0	422.2
32.5°	449.5	1246.2	5114.2	9738.1	12639.1	13347.3	13143.0	11025.2	7470.4	3057.6	626.5
35°	585.6	1593.5	6265.1	11140.9	14675.3	15574.2	15233.7	12625.5	8580.4	3840.8	755.9
37.5°	653.7	1797.8	7320.6	12666.4	16963.4	18189.2	17930.4	14648.0	9710.9	4841.8	926.1
40°	660.6	2043.0	8417.0	14654.8	20198.1	22384.0	21921.0	18121.1	11815.1	6128.9	1191.7
42.5°	681.0	2410.7	9840.3	18046.1	26551.7	29691.0	29166.7	24508.7	16588.8	8709.8	1688.8
45°	776.3	3105.3	12741.3	24386.1	35275.1	39878.6	39272.5	33409.2	23255.7	13565.3	2880.6
47.5°	1110.0	4671.6	17828.2	31230.1	44196.0	47866.6	47716.7	40423.4	29296.1	18543.3	4882.7
50°	1784.2	7170.8	23616.6	36984.4	49875.5	53028.4	52653.9	43351.6	32741.8	21941.4	6258.3
52.5°	2383.5	9561.1	27253.1	39102.3	51571.1	55330.2	54873.9	44420.8	33647.6	22942.4	6639.6
55°	2533.3	10425.9	28335.9	39756.0	52694.8	57277.8	56617.2	45135.8	33763.3	22227.4	6006.3
57.5°	2458.4	9608.7	27634.4	40396.1	54261.0	59279.9	58401.4	46531.8	34151.5	21015.3	4998.4
59°	2329.0	8600.9	27198.6	40906.9	55125.9	59593.2	58769.2	46838.3	34410.3	20463.7	4385.6
60°	2179.2	7919.9	26858.1	41240.6	55071.4	59102.8	58251.6	46695.3	34512.4	19987.0	4092.7
62.5°	1682.0	6319.6	26367.8	41002.2	51632.4	54628.8	54145.3	43195.0	33014.2	18461.6	3227.9
65°	1307.5	4835.0	24570.0	36569.0	43937.3	45953.0	45803.2	36575.8	27784.3	15914.7	2329.0
67.5°	1035.1	3527.5	20776.9	29616.1	35350.0	38217.0	38108.0	29691.0	21090.2	12162.4	1675.2
70°	844.4	2512.8	14246.2	22329.6	28274.6	31883.8	31727.2	23895.8	15628.6	7715.6	1219.0
72.5°	715.0	1607.1	8641.7	16834.0	23596.2	25659.6	25203.3	19278.7	11365.7	4201.7	967.0
75°	606.1	987.4	4283.4	10494.0	14055.6	14041.9	13585.7	10208.0	6101.6	2056.6	769.5
77.5°	490.3	694.6	1682.0	2880.6	4433.2	5488.8	5400.2	3616.0	1825.0	599.3	476.7
80°	320.1	326.9	449.5	789.9	1219.0	1348.4	1532.2	1103.2	531.2	286.0	197.5
82.5°	143.0	156.6	204.3	258.8	258.8	238.3	211.1	156.6	115.8	95.3	47.7
85°	34.0	47.7	34.0	40.9	34.0	27.2	27.2	13.6	0.0	0.0	0.0
87.5°	6.8	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°	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
2.5°	54.5	54.5	54.5	47.7	47.7	47.7	40.9	40.9	40.9	34.0	34.0
5°	68.1	61.3	54.5	54.5	47.7	47.7	40.9	34.0	34.0	34.0	27.2
7.5°	74.9	68.1	61.3	54.5	47.7	40.9	40.9	34.0	27.2	27.2	27.2
10°	88.5	81.7	68.1	54.5	47.7	40.9	34.0	34.0	27.2	20.4	20.4
12.5°	102.1	88.5	74.9	61.3	47.7	40.9	34.0	34.0	27.2	20.4	13.6
15°	115.8	102.1	81.7	61.3	47.7	40.9	34.0	34.0	20.4	13.6	6.8
17.5°	129.4	109.0	81.7	68.1	47.7	40.9	34.0	27.2	13.6	6.8	0.0
20°	136.2	115.8	88.5	68.1	47.7	40.9	34.0	20.4	6.8	0.0	0.0
22.5°	149.8	129.4	95.3	68.1	47.7	34.0	20.4	6.8	0.0	0.0	0.0
25°	177.1	136.2	95.3	68.1	47.7	34.0	13.6	0.0	0.0	0.0	0.0
27.5°	197.5	149.8	95.3	68.1	47.7	27.2	6.8	0.0	0.0	0.0	0.0
30°	231.5	163.4	102.1	68.1	47.7	20.4	6.8	0.0	0.0	0.0	0.0
32.5°	286.0	177.1	102.1	68.1	40.9	20.4	0.0	0.0	0.0	0.0	0.0
35°	347.3	204.3	102.1	68.1	40.9	20.4	0.0	0.0	0.0	0.0	0.0
37.5°	354.1	217.9	102.1	68.1	40.9	13.6	0.0	0.0	0.0	0.0	0.0
40°	367.7	204.3	109.0	68.1	40.9	13.6	0.0	0.0	0.0	0.0	0.0
42.5°	422.2	190.7	115.8	68.1	40.9	13.6	0.0	0.0	0.0	0.0	0.0
45°	626.5	197.5	115.8	74.9	40.9	20.4	0.0	0.0	0.0	0.0	0.0
47.5°	1089.6	204.3	109.0	74.9	40.9	20.4	0.0	0.0	0.0	0.0	0.0
50°	1396.0	238.3	109.0	81.7	47.7	13.6	0.0	0.0	0.0	0.0	0.0
52.5°	1484.6	279.2	109.0	88.5	61.3	6.8	0.0	0.0	0.0	0.0	0.0
55°	1443.7	326.9	115.8	95.3	74.9	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1334.7	354.1	122.6	102.1	81.7	0.0	0.0	0.0	0.0	0.0	0.0
59°	1219.0	374.5	143.0	109.0	81.7	0.0	0.0	0.0	0.0	0.0	0.0
60°	1123.6	395.0	149.8	115.8	81.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	905.7	422.2	163.4	136.2	68.1	0.0	0.0	0.0	0.0	0.0	0.0
65°	789.9	442.6	170.2	149.8	61.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	721.8	456.3	183.9	156.6	54.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	667.4	449.5	197.5	149.8	47.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	606.1	429.0	238.3	136.2	40.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	544.8	388.2	258.8	122.6	27.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	395.0	326.9	238.3	109.0	13.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	170.2	177.1	170.2	81.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	34.0	40.9	34.0	20.4	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°	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
2.5°	34.0	34.0	34.0	34.0	40.9	40.9	54.5	68.1	81.7	88.5	88.5
5°	27.2	27.2	27.2	27.2	27.2	34.0	40.9	54.5	74.9	81.7	81.7
7.5°	20.4	20.4	20.4	20.4	20.4	20.4	34.0	47.7	68.1	74.9	81.7
10°	20.4	13.6	13.6	6.8	6.8	13.6	20.4	40.9	61.3	68.1	74.9
12.5°	13.6	6.8	6.8	0.0	0.0	6.8	13.6	34.0	54.5	61.3	68.1
15°	6.8	0.0	0.0	0.0	0.0	0.0	6.8	27.2	47.7	54.5	68.1
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.4	40.9	54.5	61.3
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.6	34.0	47.7	54.5
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	27.2	40.9	47.7
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.4	27.2	34.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.6	20.4	27.2
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.6	20.4	27.2
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	13.6	20.4
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	13.6	20.4
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	13.6	13.6
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	13.6
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	13.6
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	13.6
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	13.6
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	13.6
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	6.8
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	6.8
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	6.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	13.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	13.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	6.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	6.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	6.8
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°	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
2.5°	95.3	95.3	88.5	81.7	81.7	81.7	88.5	95.3	95.3	95.3
5°	88.5	88.5	81.7	81.7	81.7	81.7	88.5	102.1	109.0	109.0
7.5°	88.5	88.5	81.7	81.7	81.7	81.7	88.5	102.1	109.0	115.8
10°	81.7	81.7	81.7	81.7	74.9	81.7	88.5	102.1	122.6	122.6
12.5°	81.7	81.7	81.7	81.7	74.9	81.7	95.3	109.0	129.4	136.2
15°	81.7	81.7	81.7	74.9	74.9	81.7	95.3	115.8	136.2	149.8
17.5°	74.9	81.7	81.7	74.9	74.9	81.7	95.3	115.8	149.8	170.2
20°	68.1	74.9	81.7	74.9	74.9	74.9	95.3	115.8	156.6	183.9
22.5°	61.3	68.1	74.9	74.9	68.1	74.9	95.3	122.6	170.2	204.3
25°	54.5	61.3	61.3	68.1	68.1	74.9	95.3	122.6	177.1	231.5
27.5°	40.9	47.7	54.5	61.3	61.3	74.9	95.3	129.4	190.7	286.0
30°	34.0	40.9	47.7	54.5	61.3	74.9	95.3	129.4	204.3	360.9
32.5°	34.0	40.9	47.7	54.5	61.3	68.1	95.3	136.2	224.7	449.5
35°	27.2	34.0	40.9	54.5	54.5	68.1	95.3	136.2	245.2	585.6
37.5°	27.2	34.0	40.9	54.5	54.5	68.1	95.3	136.2	299.6	653.7
40°	20.4	27.2	34.0	54.5	54.5	68.1	102.1	143.0	306.4	660.6
42.5°	20.4	27.2	34.0	47.7	54.5	68.1	102.1	143.0	286.0	681.0
45°	20.4	27.2	34.0	54.5	61.3	74.9	102.1	149.8	279.2	776.3
47.5°	20.4	27.2	34.0	54.5	68.1	74.9	102.1	149.8	286.0	1110.0
50°	20.4	27.2	34.0	54.5	74.9	74.9	102.1	149.8	313.3	1784.2
52.5°	13.6	20.4	27.2	47.7	61.3	81.7	109.0	143.0	333.7	2383.5
55°	13.6	13.6	20.4	40.9	54.5	88.5	115.8	143.0	388.2	2533.3
57.5°	13.6	13.6	20.4	34.0	47.7	95.3	122.6	143.0	449.5	2458.4
59°	13.6	13.6	13.6	27.2	40.9	95.3	122.6	149.8	456.3	2329.0
60°	13.6	13.6	13.6	27.2	40.9	95.3	129.4	156.6	463.1	2179.2
62.5°	6.8	6.8	6.8	27.2	34.0	95.3	143.0	190.7	476.7	1682.0
65°	13.6	13.6	6.8	20.4	34.0	81.7	163.4	204.3	483.5	1307.5
67.5°	13.6	13.6	13.6	27.2	34.0	81.7	170.2	211.1	483.5	1035.1
70°	13.6	13.6	13.6	27.2	40.9	81.7	170.2	217.9	476.7	844.4
72.5°	13.6	13.6	13.6	27.2	40.9	74.9	156.6	224.7	456.3	715.0
75°	13.6	13.6	13.6	20.4	34.0	68.1	149.8	245.2	415.4	606.1
77.5°	13.6	13.6	13.6	13.6	27.2	54.5	136.2	272.4	367.7	490.3
80°	20.4	13.6	13.6	13.6	20.4	47.7	129.4	265.6	306.4	320.1
82.5°	20.4	13.6	13.6	6.8	13.6	34.0	102.1	204.3	156.6	143.0
85°	13.6	13.6	13.6	6.8	6.8	20.4	47.7	61.3	47.7	34.0
87.5°	13.6	13.6	13.6	6.8	6.8	6.8	6.8	6.8	6.8	6.8
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

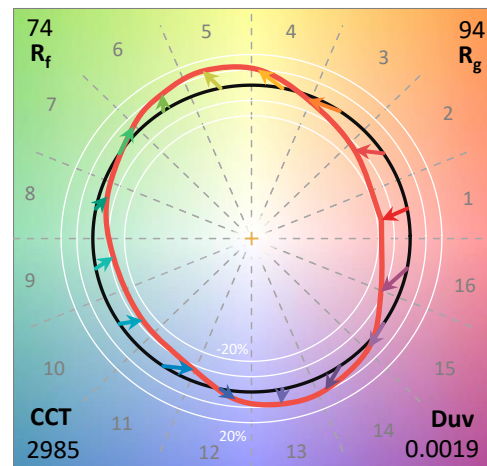
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

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

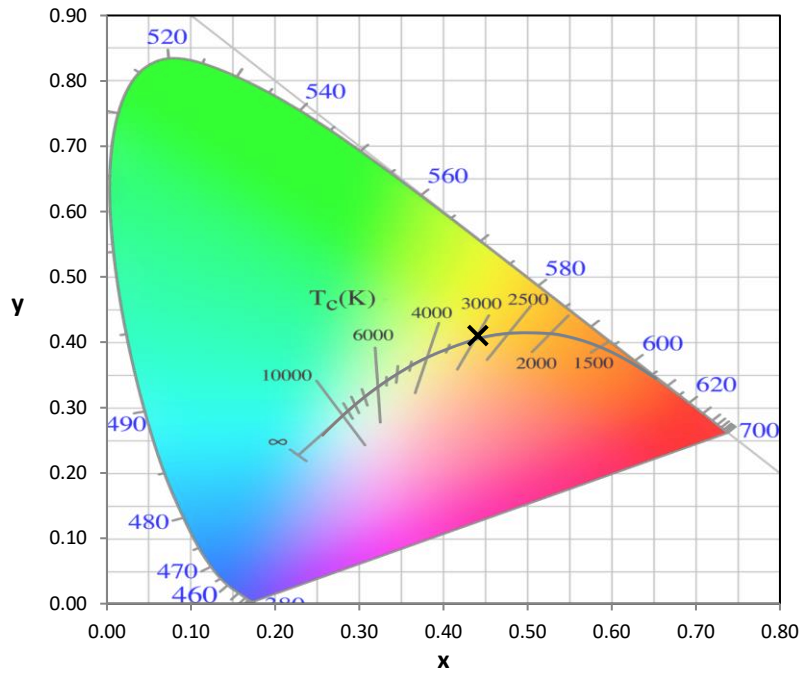
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

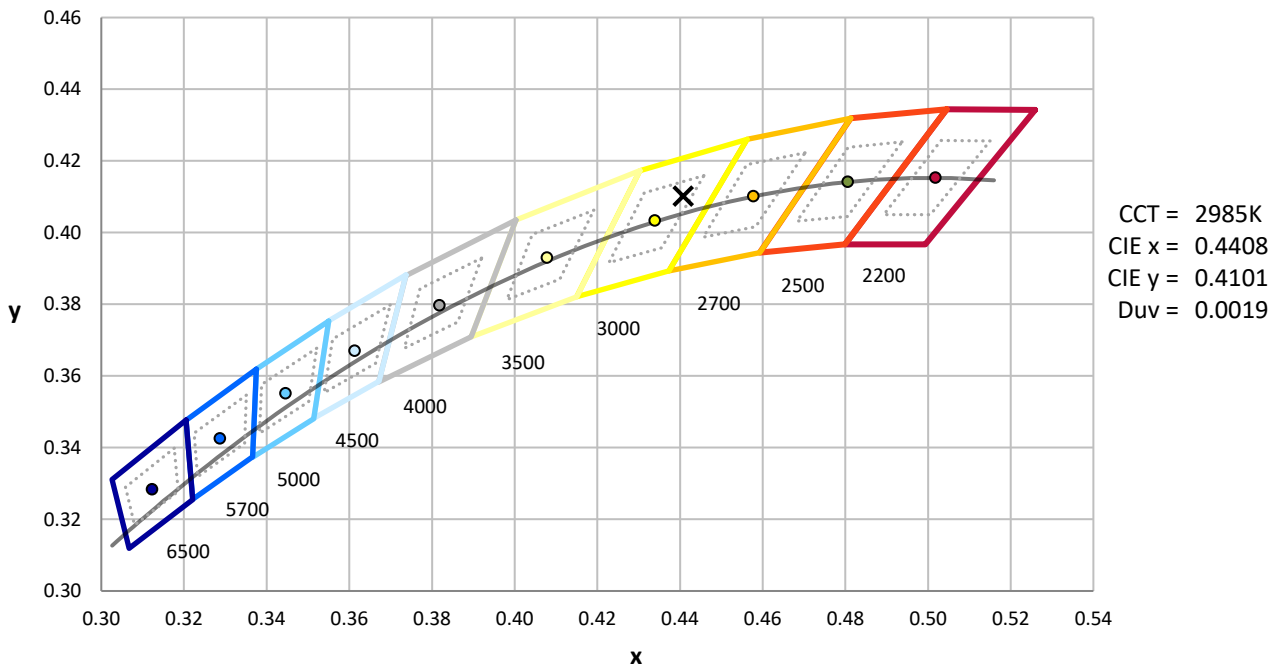
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



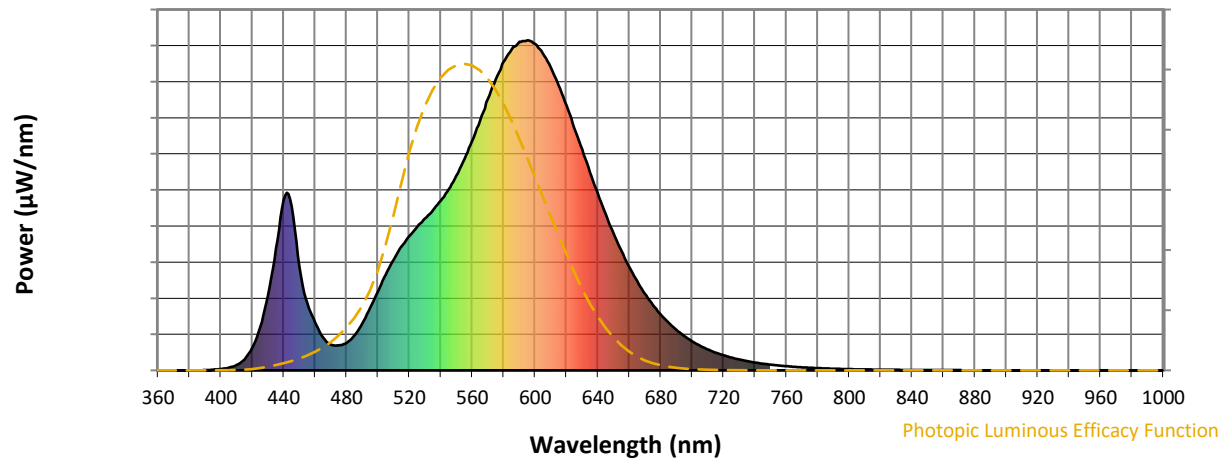
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

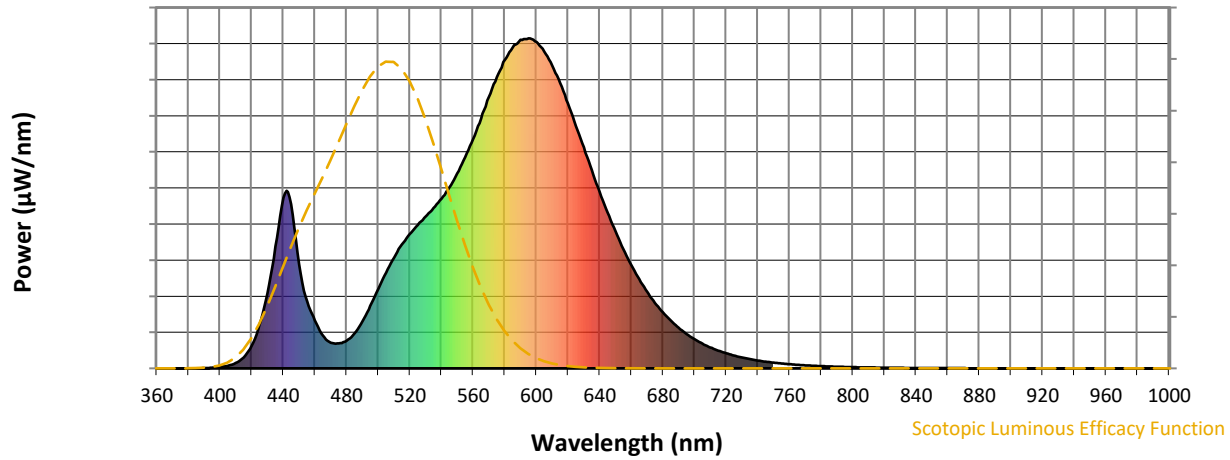


Photopic Lumens: NR

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

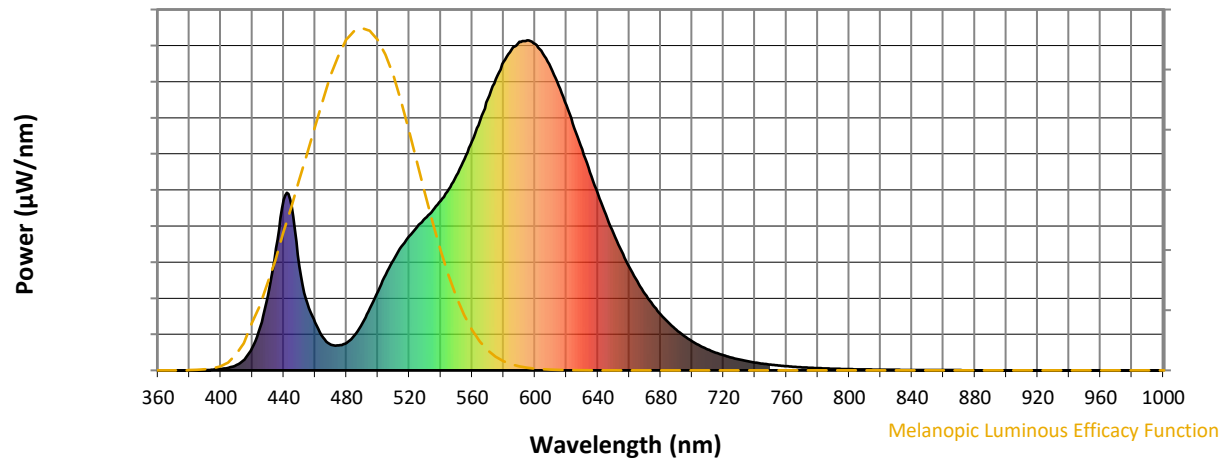


Scotopic Lumens: NR

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			

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Melanopic Flux vs. Wavelength

Melanopic Lumens: NR
M/P: 2.13

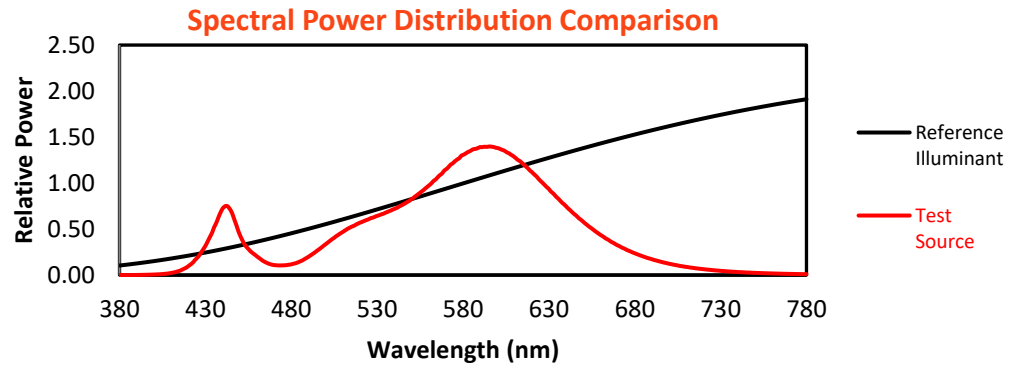
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803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

REPORT NUMBER: SP1-2407-184-4

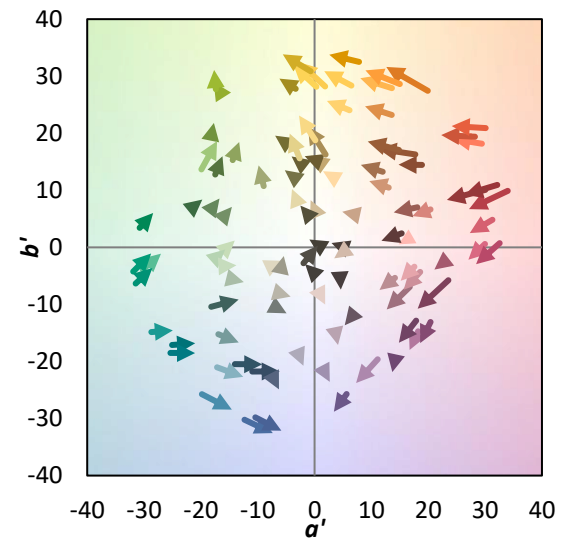
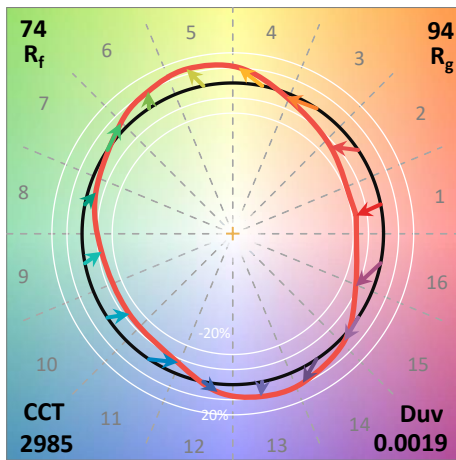
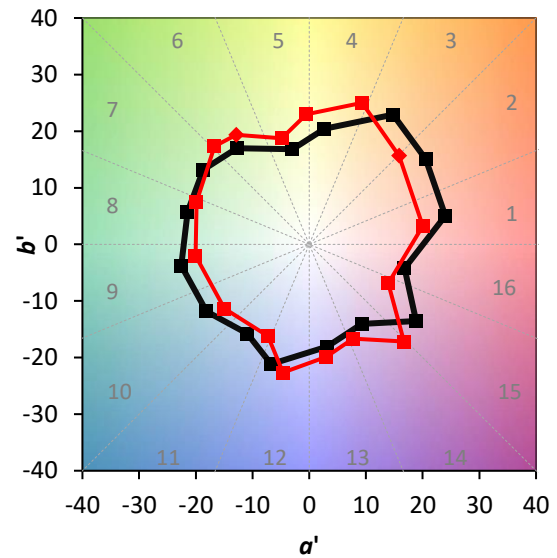
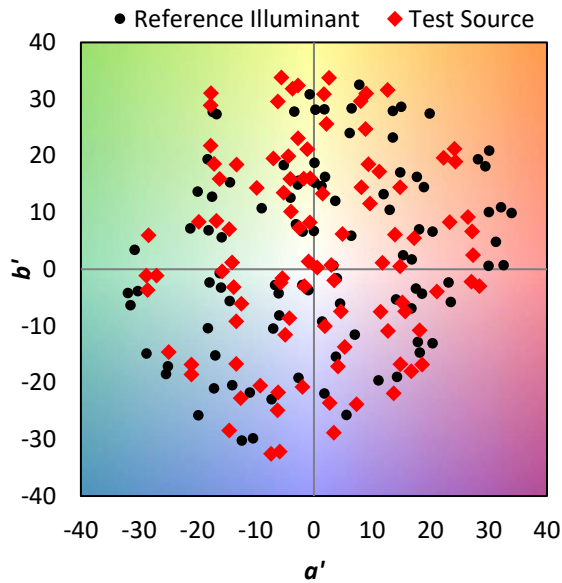
TM-30-18

Summary

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

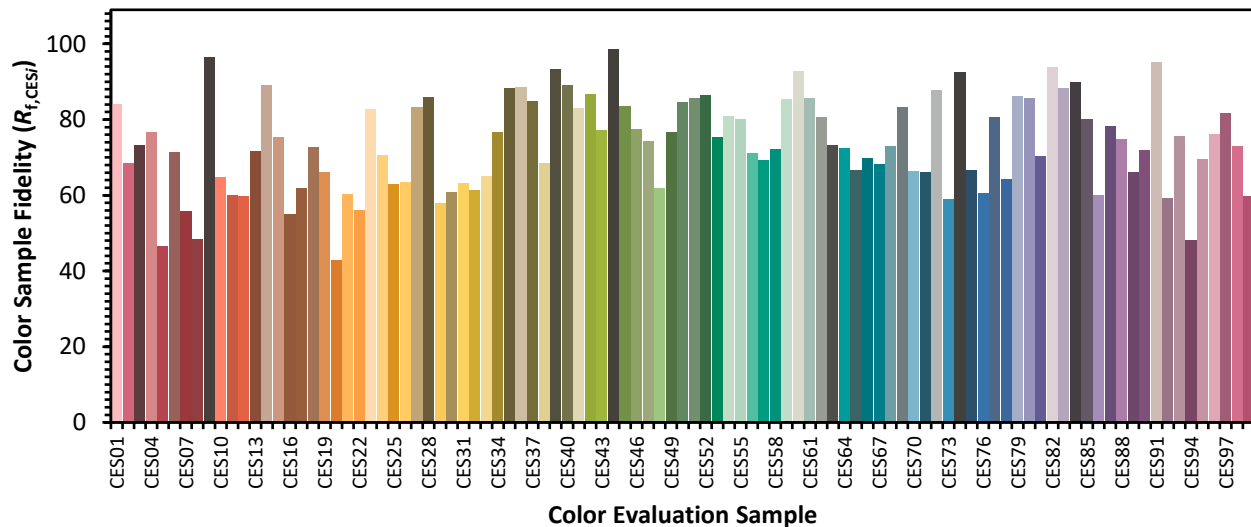


Color Vector Graphics

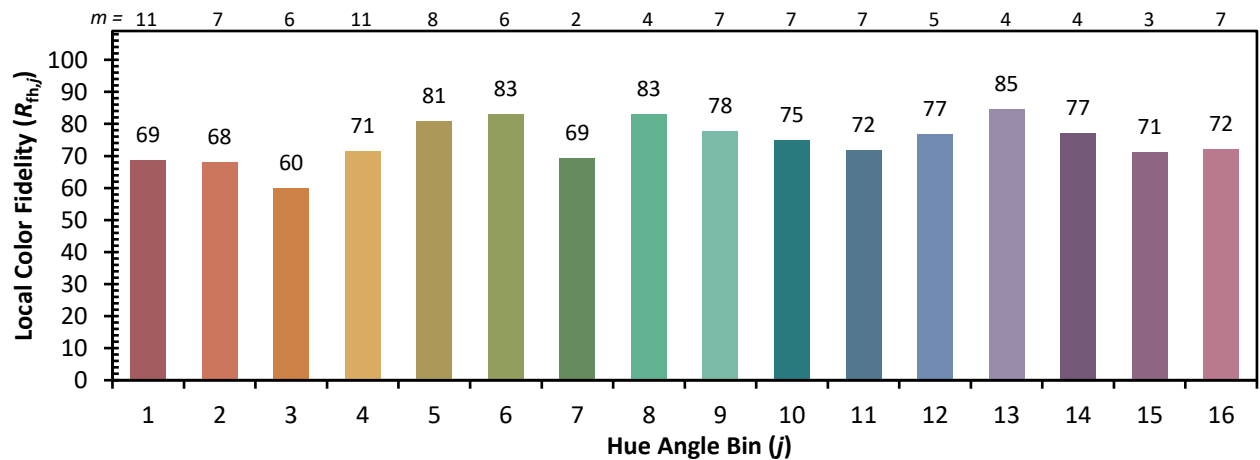
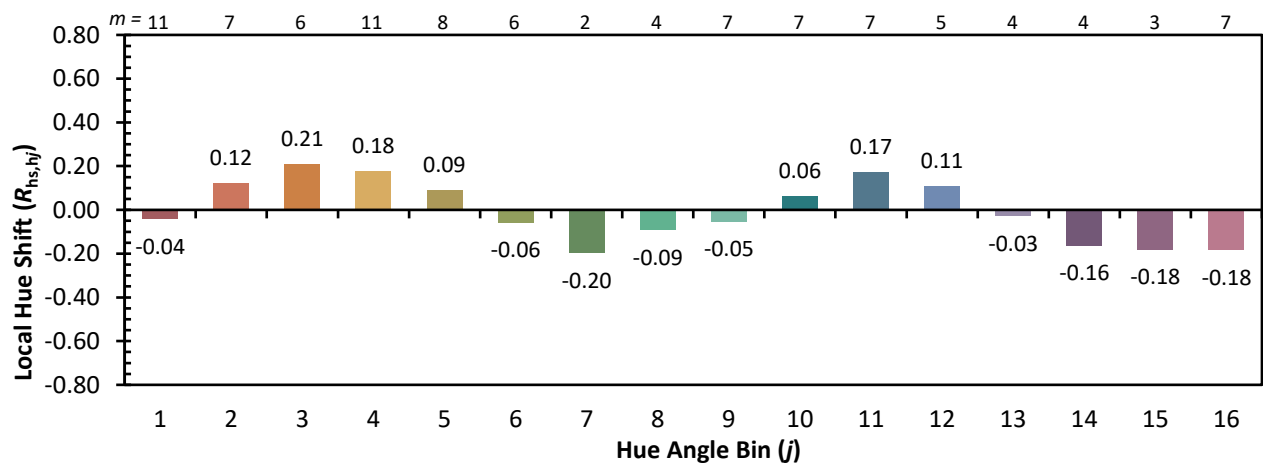
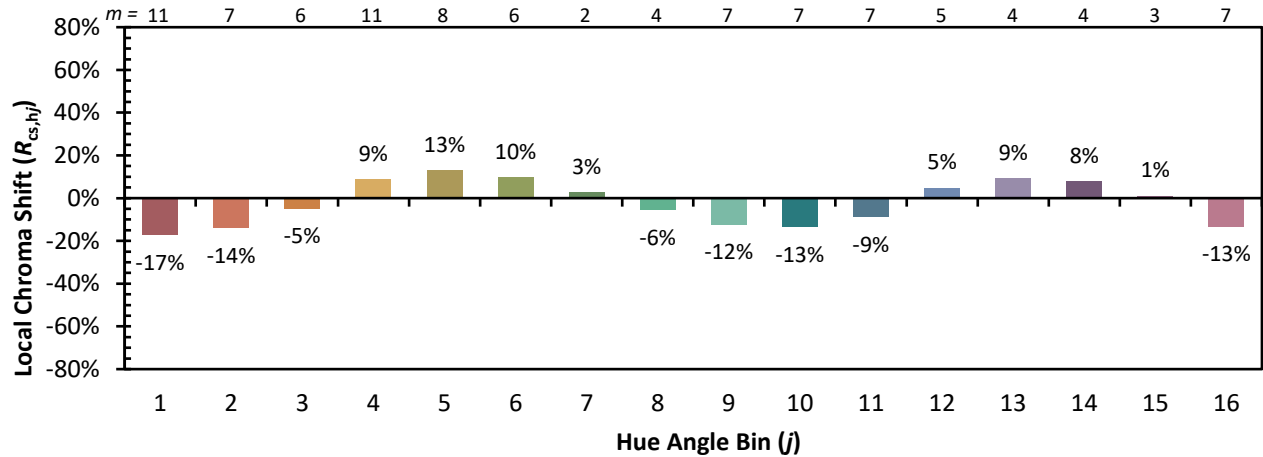


Individual Sample Fidelity Index ($R_{f,i}$)

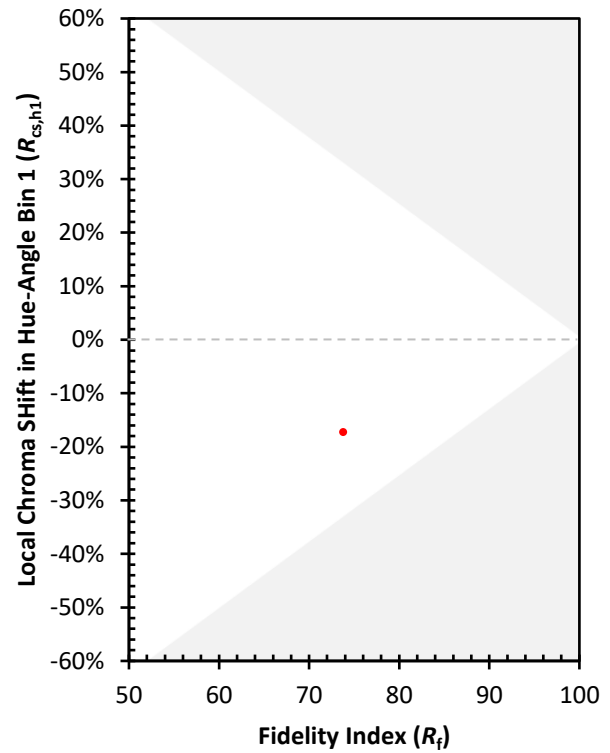
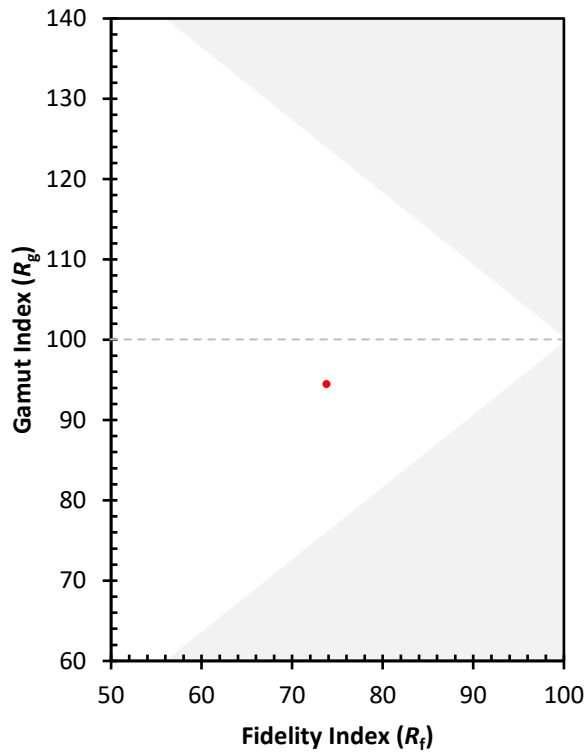
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82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