

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: P1067957

Luminaire Tested: **NAV-SA5A-730-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067957
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA5A-730-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 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: 13954.9 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 137.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



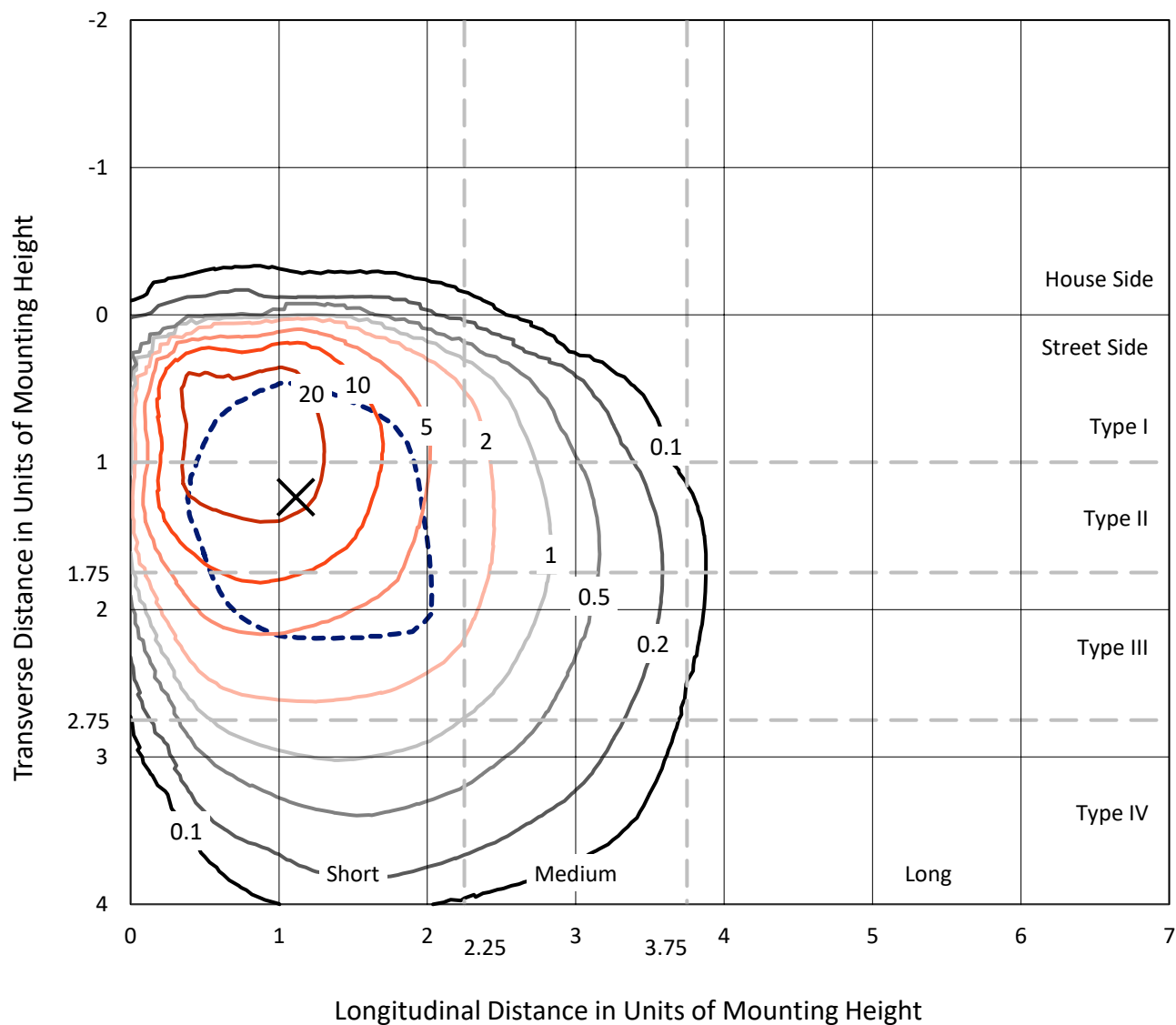
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

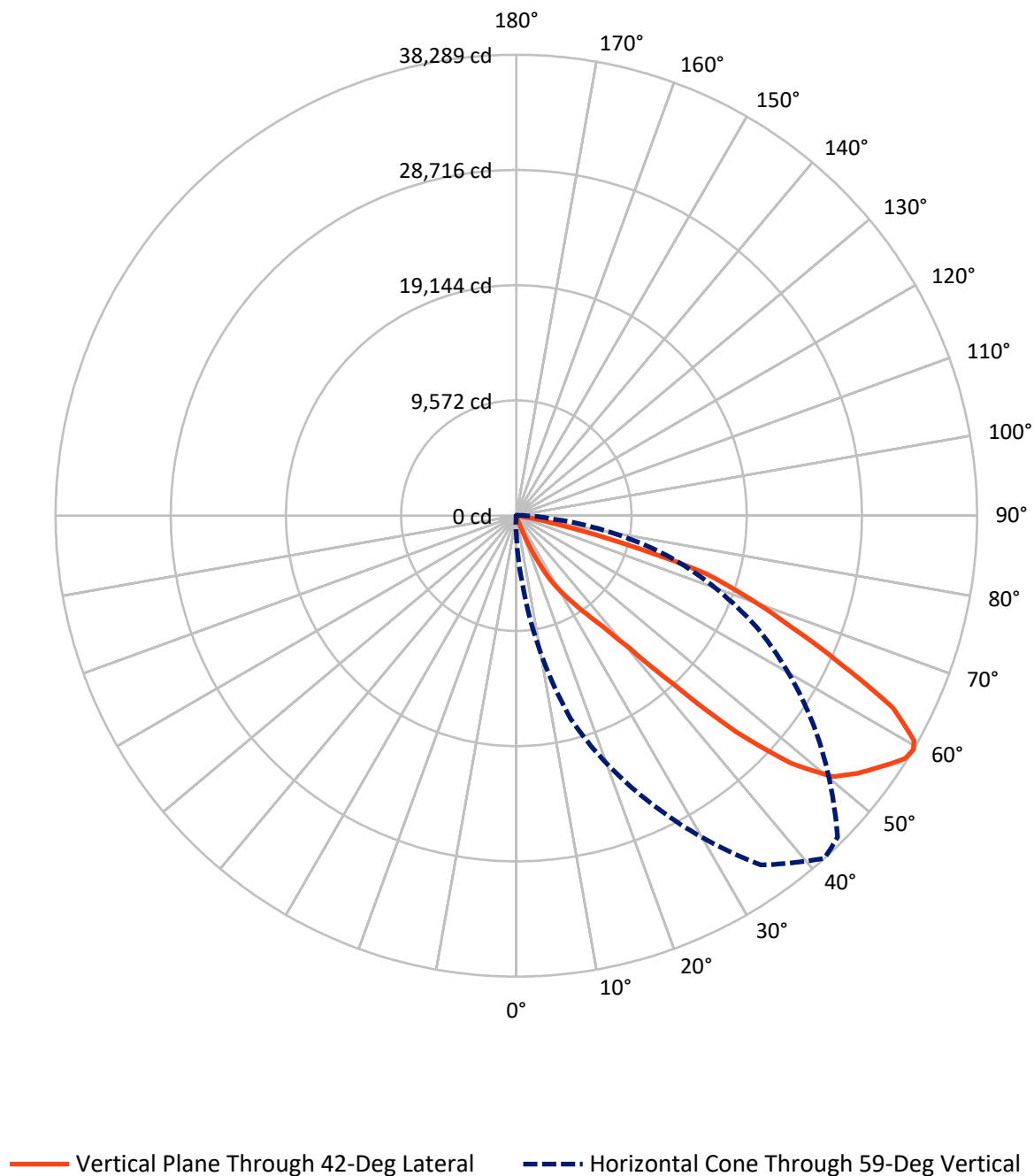


Based on 15 foot mounting height. Maximum calculated value = 41.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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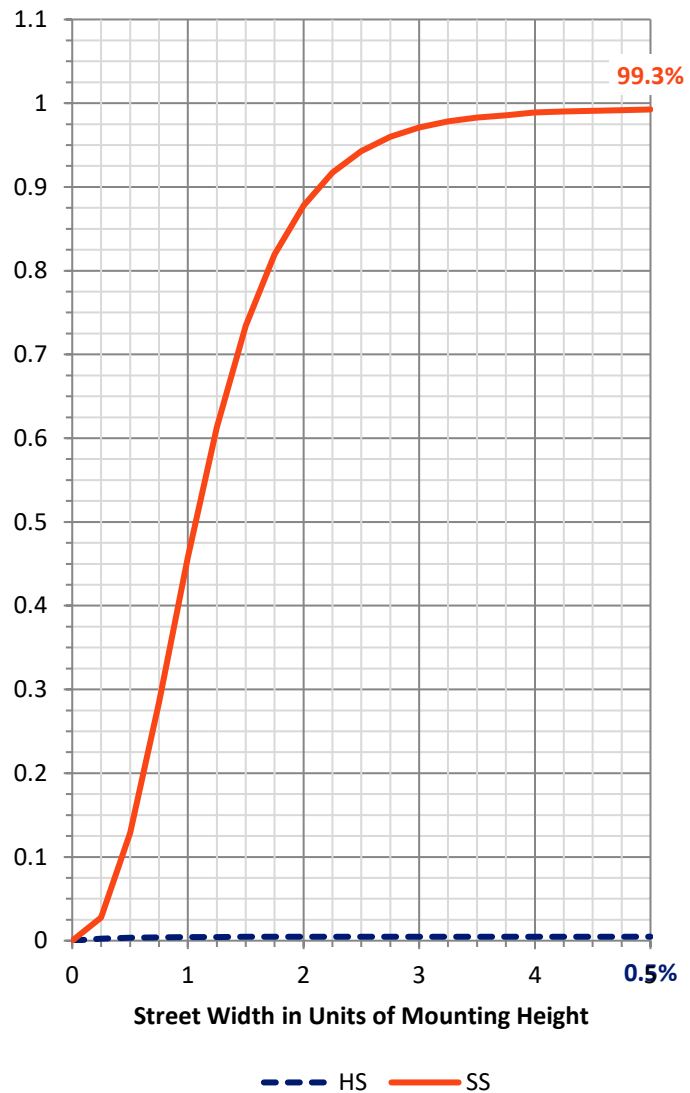
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	67.2	0.0	67.2
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	13887.7	0.0	13887.7
	% Fixture	99.5	0.0	99.5
Total	Lumens	13954.9	0.0	13954.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.1	0.0
10°-20°	20.3	0.1
20°-30°	260.3	1.9
30°-40°	877.6	6.3
40°-50°	2650.7	19.0
50°-60°	4679.1	33.5
60°-70°	4120.0	29.5
70°-80°	1311.4	9.4
80°-90°	31.4	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°	13954.9	100.0
0°-180°	13954.9	100.0



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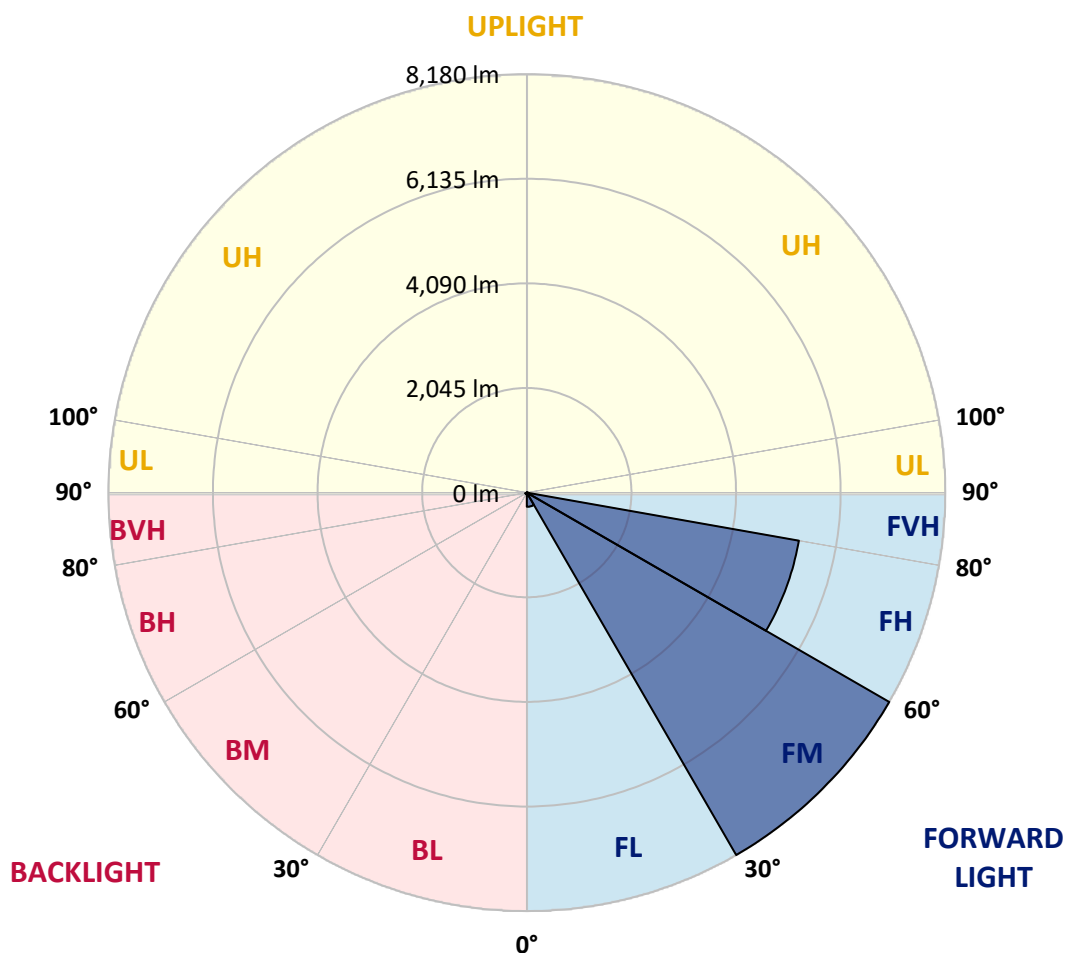
CATALOG NUMBER: NAV-SA5A-730-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	277.2	2.0			
FM	(30°-60°)	8179.9	58.6			
FH	(60°-80°)	5400.7	38.7			G3/7500
FVH	(80°-90°)	29.9	0.2			G1/100
BL	(0°-30°)	7.5	0.1	B0/110		
BM	(30°-60°)	27.5	0.2	B0/220		
BH	(60°-80°)	30.8	0.2	B0/110		G0/110
BVH	(80°-90°)	1.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
2.5°	61.3	61.3	56.9	52.5	48.1	43.8	43.8	43.8	39.4	39.4	35.0
5°	70.0	70.0	65.6	61.3	61.3	56.9	56.9	52.5	48.1	48.1	43.8
7.5°	74.4	74.4	74.4	74.4	70.0	70.0	70.0	65.6	61.3	56.9	52.5
10°	78.8	83.1	87.5	87.5	87.5	87.5	87.5	83.1	74.4	70.0	61.3
12.5°	87.5	91.9	100.6	109.4	109.4	113.8	109.4	105.0	96.3	83.1	70.0
15°	96.3	105.0	118.1	135.6	153.1	157.5	157.5	144.4	126.9	100.6	83.1
17.5°	109.4	122.5	157.5	214.4	275.6	323.8	323.8	288.8	201.3	131.3	96.3
20°	118.1	144.4	253.8	516.3	787.6	988.8	949.4	840.1	450.7	205.6	105.0
22.5°	131.3	183.8	538.2	1356.4	2100.2	2467.7	2380.2	1807.0	1010.7	367.5	126.9
25°	148.8	266.9	1067.6	2542.1	3902.8	4300.9	4244.1	3373.4	1842.0	616.9	161.9
27.5°	183.8	393.8	1710.8	3854.7	5757.9	6099.2	6077.3	4939.7	2944.6	993.2	210.0
30°	231.9	573.2	2537.7	5237.3	6987.4	7333.0	7223.7	6086.1	3972.8	1518.2	271.3
32.5°	288.8	800.7	3285.9	6256.7	8120.6	8575.6	8444.4	7083.7	4799.7	1964.5	402.5
35°	376.3	1023.8	4025.3	7158.0	9428.8	10006.4	9787.6	8111.9	5512.9	2467.7	485.7
37.5°	420.0	1155.1	4703.5	8138.1	10898.9	11686.5	11520.2	9411.3	6239.2	3110.9	595.0
40°	424.4	1312.6	5407.9	9415.7	12977.2	14381.7	14084.2	11642.7	7591.2	3937.8	765.7
42.5°	437.5	1548.9	6322.3	11594.6	17059.4	19076.4	18739.5	15746.8	10658.3	5596.0	1085.1
45°	498.8	1995.1	8186.2	15668.0	22664.2	25621.9	25232.5	21465.3	14941.7	8715.6	1850.8
47.5°	713.2	3001.5	11454.6	20065.2	28395.9	30754.2	30657.9	25971.9	18822.6	11914.0	3137.1
50°	1146.3	4607.2	15173.6	23762.4	32044.9	34070.7	33830.0	27853.3	21036.6	14097.3	4020.9
52.5°	1531.4	6143.0	17510.1	25123.1	33134.3	35549.5	35256.4	28540.2	21618.5	14740.5	4265.9
55°	1627.6	6698.6	18205.7	25543.1	33856.3	36800.9	36376.5	28999.7	21692.9	14281.1	3859.0
57.5°	1579.5	6173.6	17755.1	25954.4	34862.6	38087.2	37522.8	29896.6	21942.3	13502.3	3211.5
59°	1496.4	5526.0	17475.0	26282.6	35418.3	38288.5	37759.1	30093.5	22108.5	13147.9	2817.7
60°	1400.1	5088.5	17256.3	26497.0	35383.3	37973.4	37426.5	30001.6	22174.1	12841.6	2629.6
62.5°	1080.7	4060.3	16941.3	26343.8	33173.7	35098.9	34788.2	27752.7	21211.6	11861.5	2073.9
65°	840.1	3106.5	15786.2	23495.5	28229.6	29524.7	29428.4	23499.9	17851.3	10225.1	1496.4
67.5°	665.0	2266.4	13349.1	19028.3	22712.3	24554.3	24484.3	19076.4	13550.4	7814.3	1076.3
70°	542.5	1614.5	9153.2	14346.7	18166.4	20485.3	20384.6	15353.0	10041.4	4957.2	783.2
72.5°	459.4	1032.6	5552.3	10815.8	15160.5	16486.2	16193.1	12386.5	7302.4	2699.6	621.3
75°	389.4	634.4	2752.1	6742.4	9030.7	9021.9	8728.8	6558.6	3920.3	1321.3	494.4
77.5°	315.0	446.3	1080.7	1850.8	2848.3	3526.5	3469.6	2323.3	1172.6	385.0	306.3
80°	205.6	210.0	288.8	507.5	783.2	866.3	984.4	708.8	341.3	183.8	126.9
82.5°	91.9	100.6	131.3	166.3	166.3	153.1	135.6	100.6	74.4	61.3	30.6
85°	21.9	30.6	21.9	26.3	21.9	17.5	17.5	8.8	0.0	0.0	0.0
87.5°	4.4	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°	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
2.5°	35.0	35.0	35.0	30.6	30.6	30.6	26.3	26.3	26.3	21.9	21.9
5°	43.8	39.4	35.0	35.0	30.6	30.6	26.3	21.9	21.9	21.9	17.5
7.5°	48.1	43.8	39.4	35.0	30.6	26.3	26.3	21.9	17.5	17.5	17.5
10°	56.9	52.5	43.8	35.0	30.6	26.3	21.9	21.9	17.5	13.1	13.1
12.5°	65.6	56.9	48.1	39.4	30.6	26.3	21.9	21.9	17.5	13.1	8.8
15°	74.4	65.6	52.5	39.4	30.6	26.3	21.9	21.9	13.1	8.8	4.4
17.5°	83.1	70.0	52.5	43.8	30.6	26.3	21.9	17.5	8.8	4.4	0.0
20°	87.5	74.4	56.9	43.8	30.6	26.3	21.9	13.1	4.4	0.0	0.0
22.5°	96.3	83.1	61.3	43.8	30.6	21.9	13.1	4.4	0.0	0.0	0.0
25°	113.8	87.5	61.3	43.8	30.6	21.9	8.8	0.0	0.0	0.0	0.0
27.5°	126.9	96.3	61.3	43.8	30.6	17.5	4.4	0.0	0.0	0.0	0.0
30°	148.8	105.0	65.6	43.8	30.6	13.1	4.4	0.0	0.0	0.0	0.0
32.5°	183.8	113.8	65.6	43.8	26.3	13.1	0.0	0.0	0.0	0.0	0.0
35°	223.1	131.3	65.6	43.8	26.3	13.1	0.0	0.0	0.0	0.0	0.0
37.5°	227.5	140.0	65.6	43.8	26.3	8.8	0.0	0.0	0.0	0.0	0.0
40°	236.3	131.3	70.0	43.8	26.3	8.8	0.0	0.0	0.0	0.0	0.0
42.5°	271.3	122.5	74.4	43.8	26.3	8.8	0.0	0.0	0.0	0.0	0.0
45°	402.5	126.9	74.4	48.1	26.3	13.1	0.0	0.0	0.0	0.0	0.0
47.5°	700.1	131.3	70.0	48.1	26.3	13.1	0.0	0.0	0.0	0.0	0.0
50°	896.9	153.1	70.0	52.5	30.6	8.8	0.0	0.0	0.0	0.0	0.0
52.5°	953.8	179.4	70.0	56.9	39.4	4.4	0.0	0.0	0.0	0.0	0.0
55°	927.6	210.0	74.4	61.3	48.1	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	857.6	227.5	78.8	65.6	52.5	0.0	0.0	0.0	0.0	0.0	0.0
59°	783.2	240.6	91.9	70.0	52.5	0.0	0.0	0.0	0.0	0.0	0.0
60°	721.9	253.8	96.3	74.4	52.5	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	581.9	271.3	105.0	87.5	43.8	0.0	0.0	0.0	0.0	0.0	0.0
65°	507.5	284.4	109.4	96.3	39.4	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	463.8	293.1	118.1	100.6	35.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	428.8	288.8	126.9	96.3	30.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	389.4	275.6	153.1	87.5	26.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	350.0	249.4	166.3	78.8	17.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	253.8	210.0	153.1	70.0	8.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	109.4	113.8	109.4	52.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	21.9	26.3	21.9	13.1	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°	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
2.5°	21.9	21.9	21.9	21.9	26.3	26.3	35.0	43.8	52.5	56.9	56.9
5°	17.5	17.5	17.5	17.5	17.5	21.9	26.3	35.0	48.1	52.5	52.5
7.5°	13.1	13.1	13.1	13.1	13.1	13.1	21.9	30.6	43.8	48.1	52.5
10°	13.1	8.8	8.8	4.4	4.4	8.8	13.1	26.3	39.4	43.8	48.1
12.5°	8.8	4.4	4.4	0.0	0.0	4.4	8.8	21.9	35.0	39.4	43.8
15°	4.4	0.0	0.0	0.0	0.0	0.0	4.4	17.5	30.6	35.0	43.8
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1	26.3	35.0	39.4
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	21.9	30.6	35.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	17.5	26.3	30.6
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1	17.5	21.9
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	13.1	17.5
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	13.1	17.5
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.8	13.1
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.8	13.1
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.8	8.8
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.8
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.8
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.8
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.8
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.8
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	4.4
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	4.4
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	4.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	4.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	4.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	4.4
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°	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
2.5°	61.3	61.3	56.9	52.5	52.5	52.5	56.9	61.3	61.3	61.3
5°	56.9	56.9	52.5	52.5	52.5	52.5	56.9	65.6	70.0	70.0
7.5°	56.9	56.9	52.5	52.5	52.5	52.5	56.9	65.6	70.0	74.4
10°	52.5	52.5	52.5	52.5	48.1	52.5	56.9	65.6	78.8	78.8
12.5°	52.5	52.5	52.5	52.5	48.1	52.5	61.3	70.0	83.1	87.5
15°	52.5	52.5	52.5	48.1	48.1	52.5	61.3	74.4	87.5	96.3
17.5°	48.1	52.5	52.5	48.1	48.1	52.5	61.3	74.4	96.3	109.4
20°	43.8	48.1	52.5	48.1	48.1	48.1	61.3	74.4	100.6	118.1
22.5°	39.4	43.8	48.1	48.1	43.8	48.1	61.3	78.8	109.4	131.3
25°	35.0	39.4	39.4	43.8	43.8	48.1	61.3	78.8	113.8	148.8
27.5°	26.3	30.6	35.0	39.4	39.4	48.1	61.3	83.1	122.5	183.8
30°	21.9	26.3	30.6	35.0	39.4	48.1	61.3	83.1	131.3	231.9
32.5°	21.9	26.3	30.6	35.0	39.4	43.8	61.3	87.5	144.4	288.8
35°	17.5	21.9	26.3	35.0	35.0	43.8	61.3	87.5	157.5	376.3
37.5°	17.5	21.9	26.3	35.0	35.0	43.8	61.3	87.5	192.5	420.0
40°	13.1	17.5	21.9	35.0	35.0	43.8	65.6	91.9	196.9	424.4
42.5°	13.1	17.5	21.9	30.6	35.0	43.8	65.6	91.9	183.8	437.5
45°	13.1	17.5	21.9	35.0	39.4	48.1	65.6	96.3	179.4	498.8
47.5°	13.1	17.5	21.9	35.0	43.8	48.1	65.6	96.3	183.8	713.2
50°	13.1	17.5	21.9	35.0	48.1	48.1	65.6	96.3	201.3	1146.3
52.5°	8.8	13.1	17.5	30.6	39.4	52.5	70.0	91.9	214.4	1531.4
55°	8.8	8.8	13.1	26.3	35.0	56.9	74.4	91.9	249.4	1627.6
57.5°	8.8	8.8	13.1	21.9	30.6	61.3	78.8	91.9	288.8	1579.5
59°	8.8	8.8	8.8	21.9	26.3	61.3	78.8	96.3	293.1	1496.4
60°	8.8	8.8	8.8	17.5	26.3	61.3	83.1	100.6	297.5	1400.1
62.5°	4.4	4.4	4.4	17.5	21.9	61.3	91.9	122.5	306.3	1080.7
65°	8.8	8.8	4.4	13.1	21.9	52.5	105.0	131.3	310.6	840.1
67.5°	8.8	8.8	8.8	17.5	21.9	52.5	109.4	135.6	310.6	665.0
70°	8.8	8.8	8.8	17.5	26.3	52.5	109.4	140.0	306.3	542.5
72.5°	8.8	8.8	8.8	17.5	26.3	48.1	100.6	144.4	293.1	459.4
75°	8.8	8.8	8.8	13.1	21.9	43.8	96.3	157.5	266.9	389.4
77.5°	8.8	8.8	8.8	8.8	17.5	35.0	87.5	175.0	236.3	315.0
80°	13.1	8.8	8.8	8.8	13.1	30.6	83.1	170.6	196.9	205.6
82.5°	13.1	8.8	8.8	4.4	8.8	21.9	65.6	131.3	100.6	91.9
85°	8.8	8.8	8.8	4.4	4.4	13.1	30.6	39.4	30.6	21.9
87.5°	8.8	8.8	8.8	4.4	4.4	4.4	4.4	4.4	4.4	4.4
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

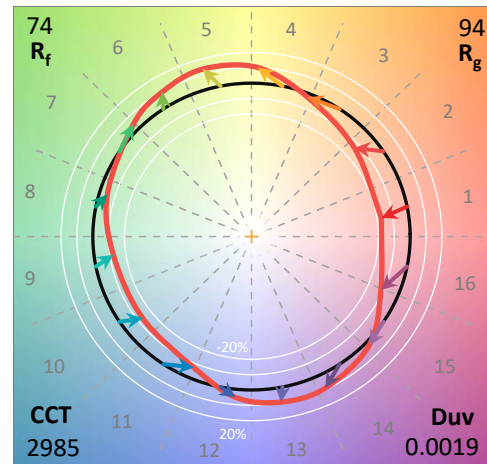
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

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

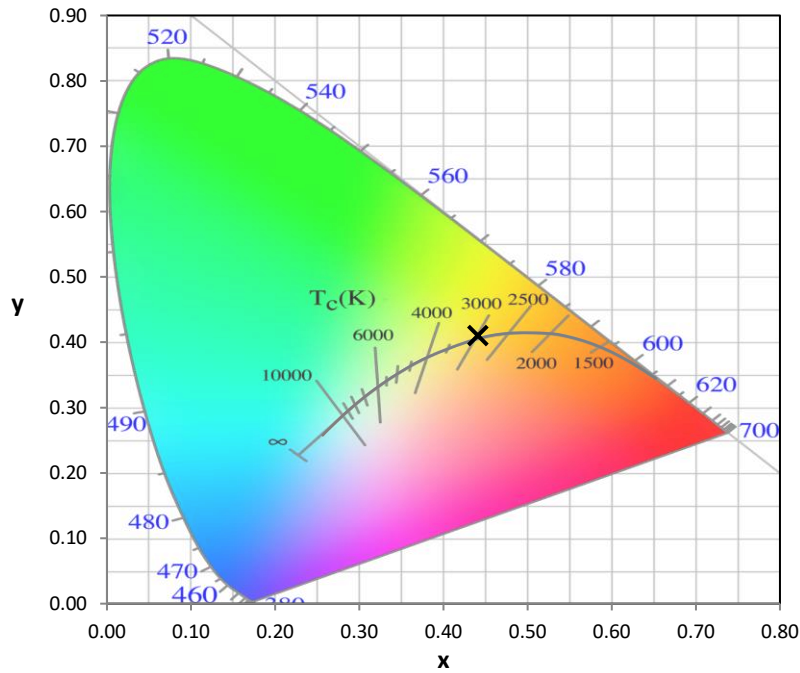
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

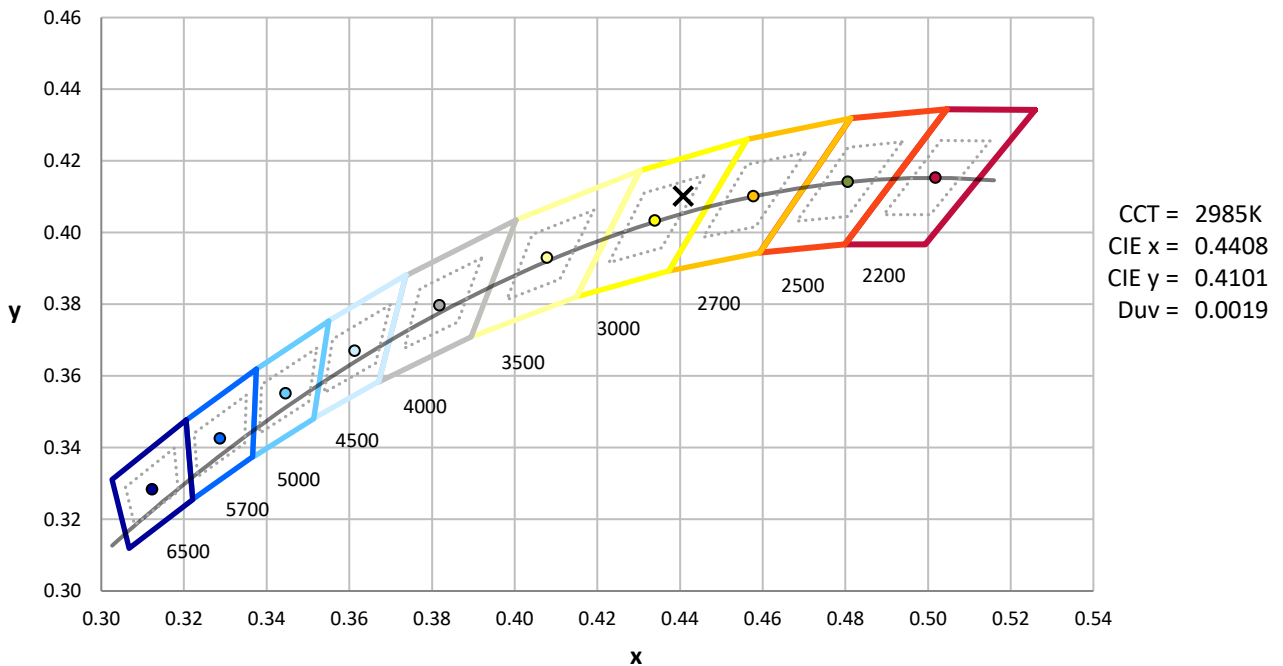
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



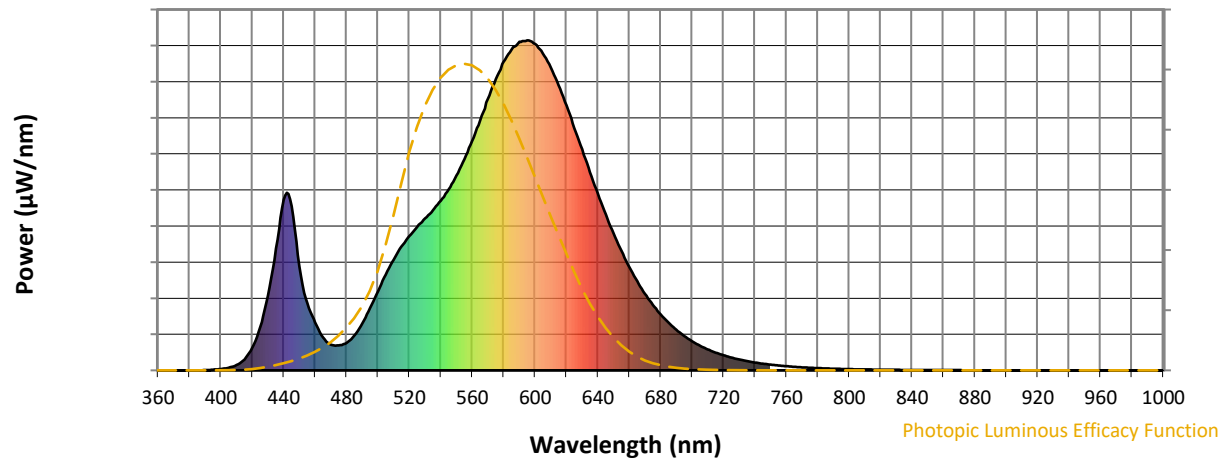
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

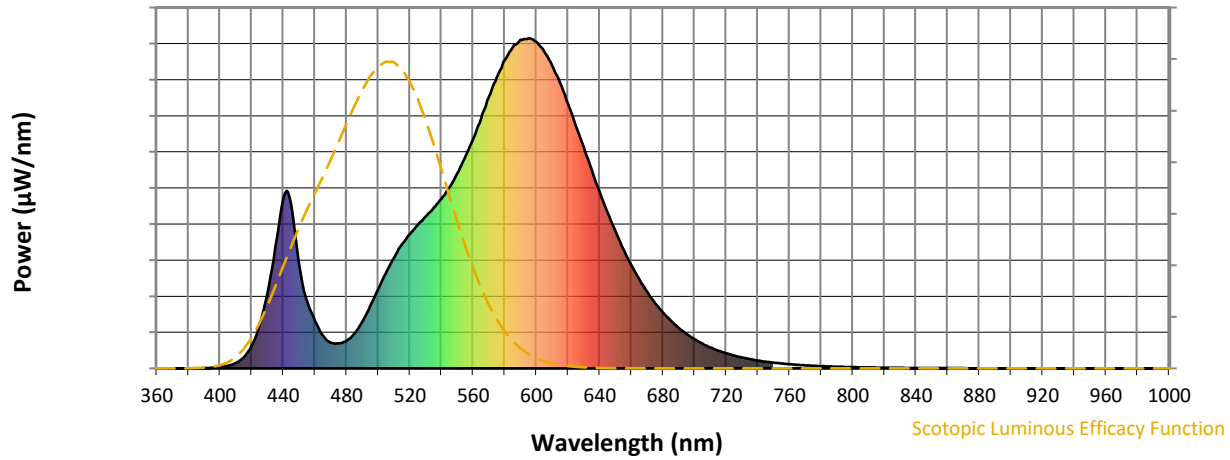


Photopic Lumens: NR

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



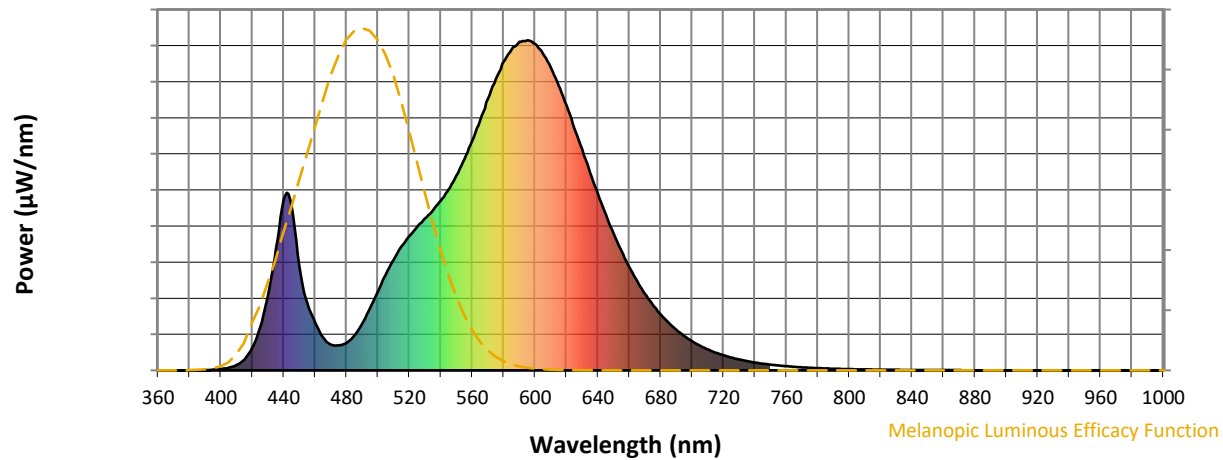
Scotopic Lumens: NR

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

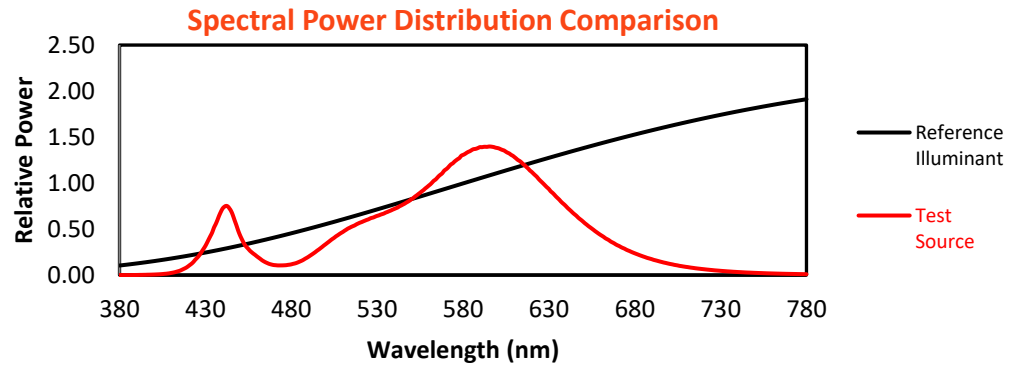
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803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

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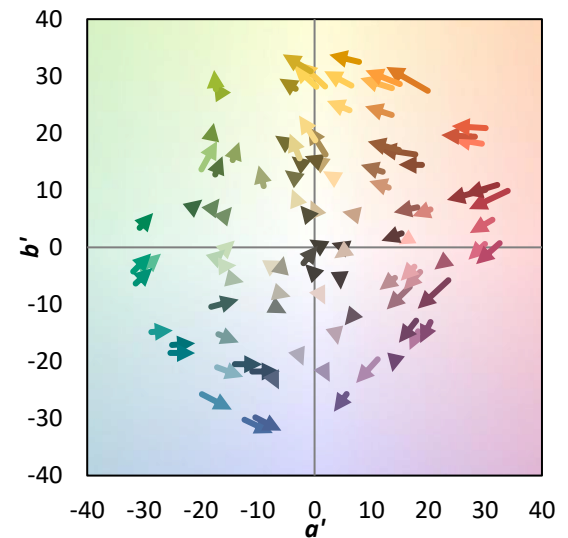
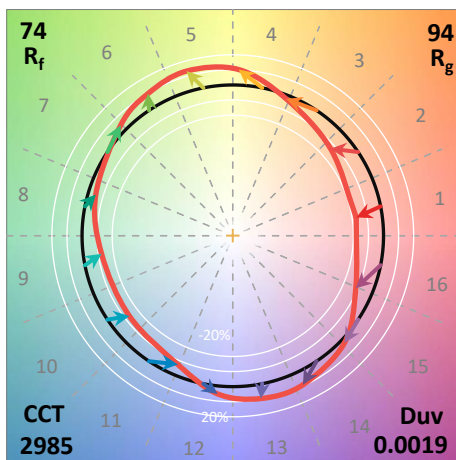
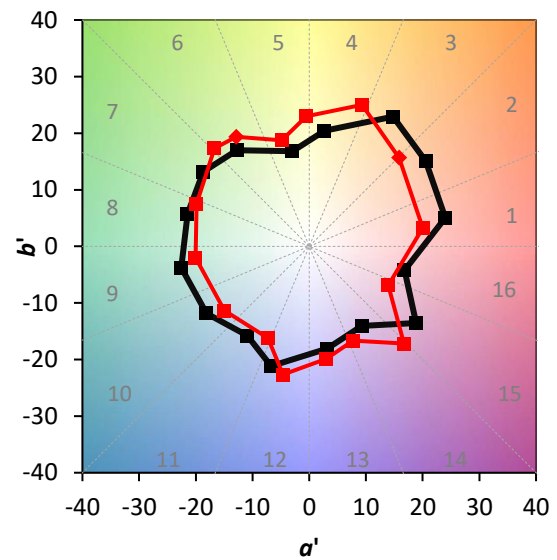
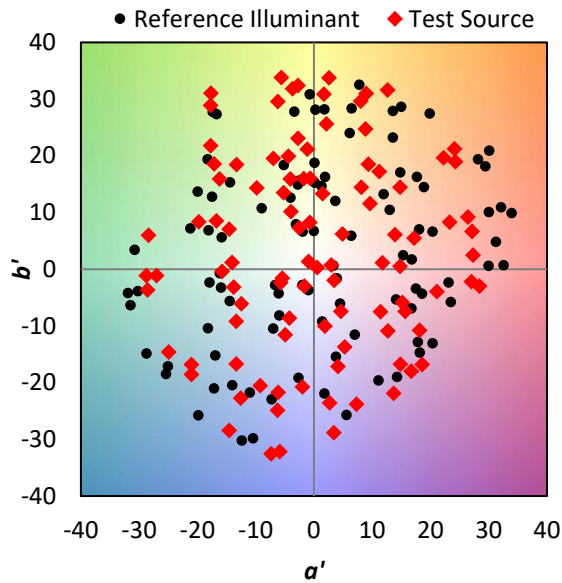
TM-30-18

Summary

$R_f = 73.8$
 $R_g = 94.4$
 $\text{CIE } R_a = 70.8$
 $R_g = -43.2$

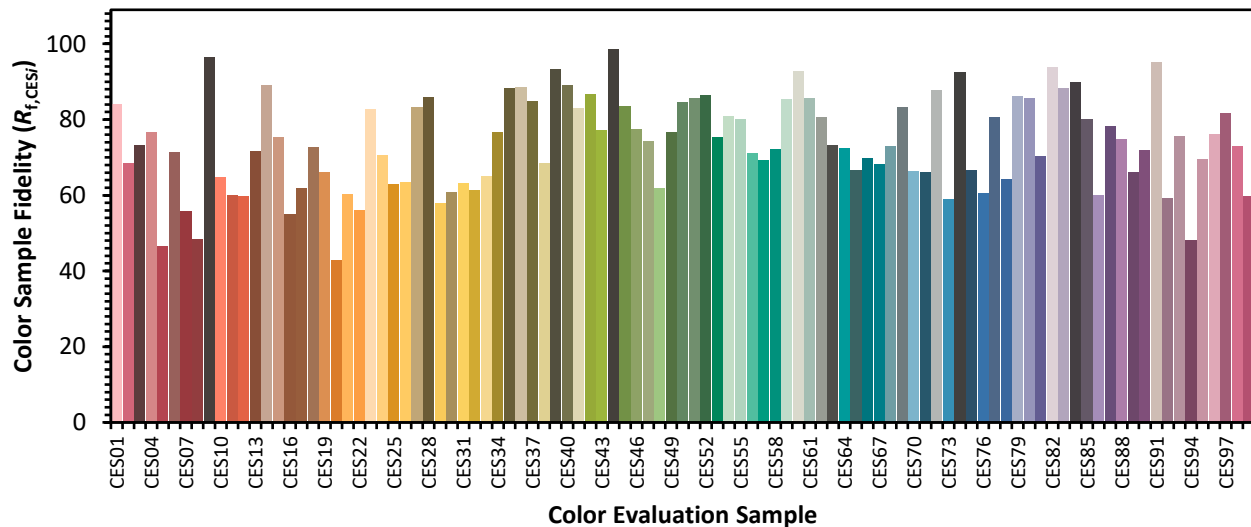


Color Vector Graphics

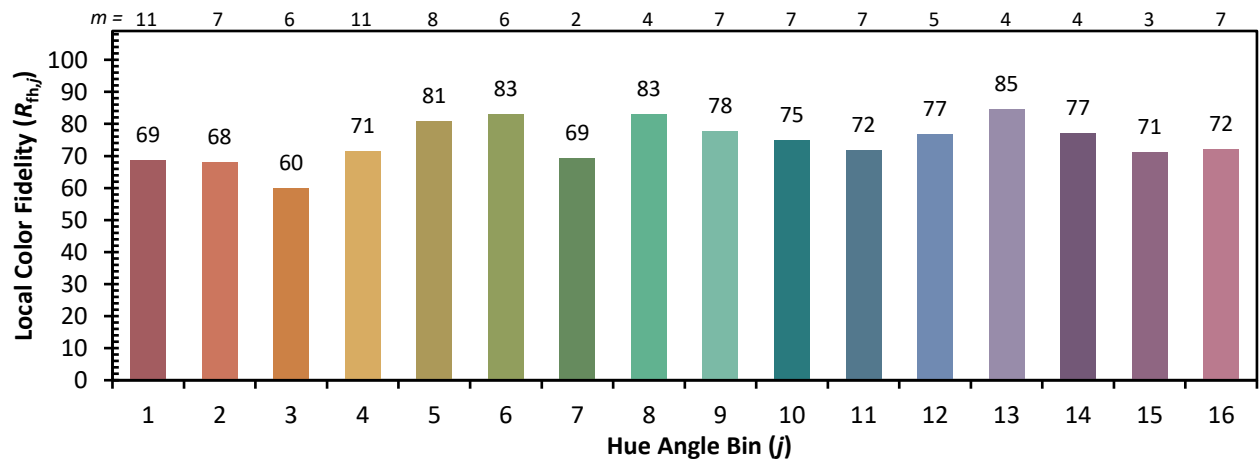
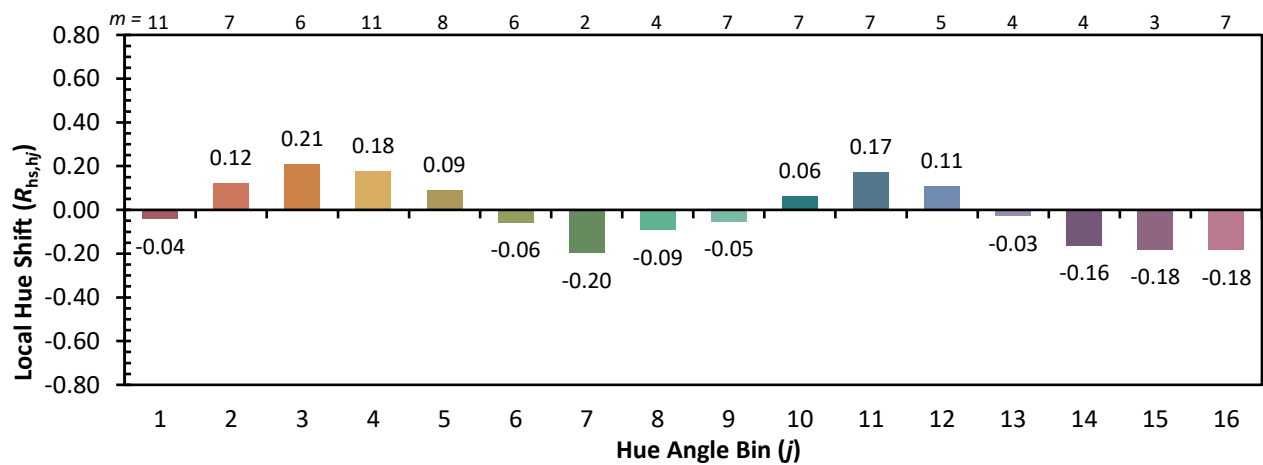
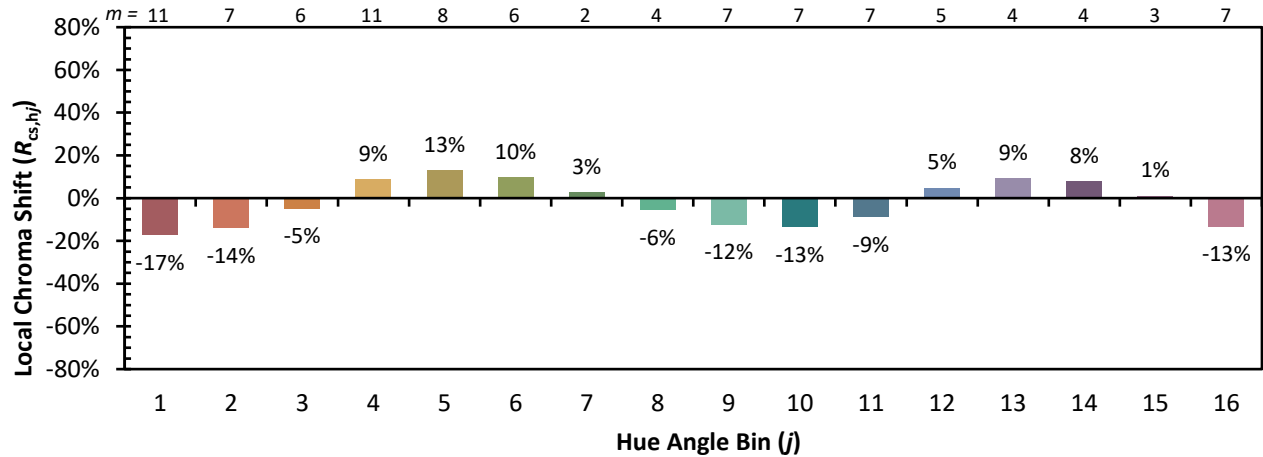


Individual Sample Fidelity Index ($R_{f,i}$)

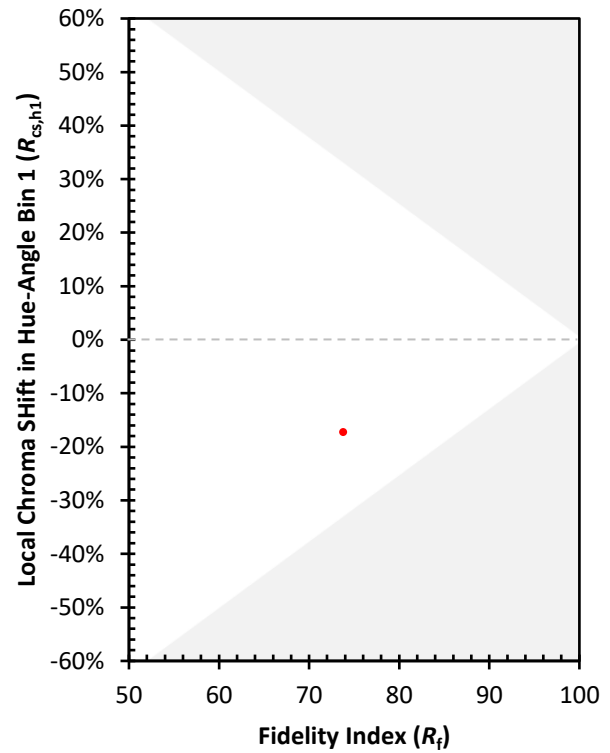
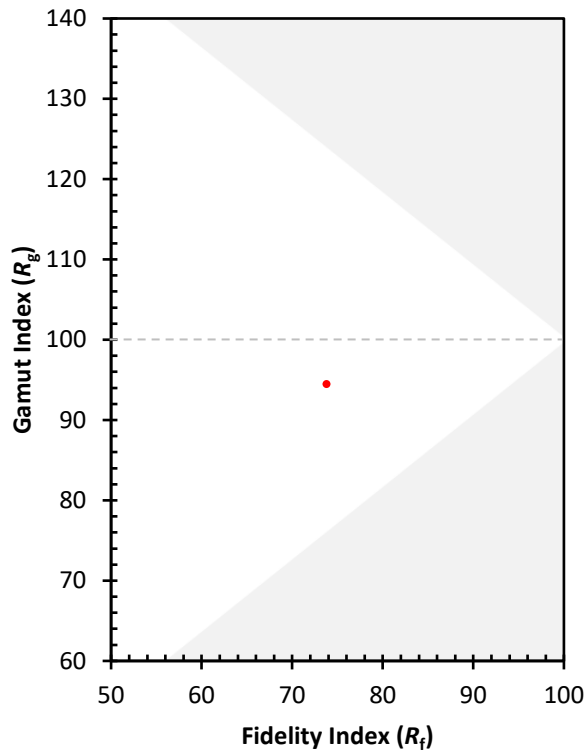
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82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