

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: P1067946

Luminaire Tested: **NAV-SA2B-730-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067946
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA2B-730-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 2xLight Square PACKAGE
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7093.5 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 72.8
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



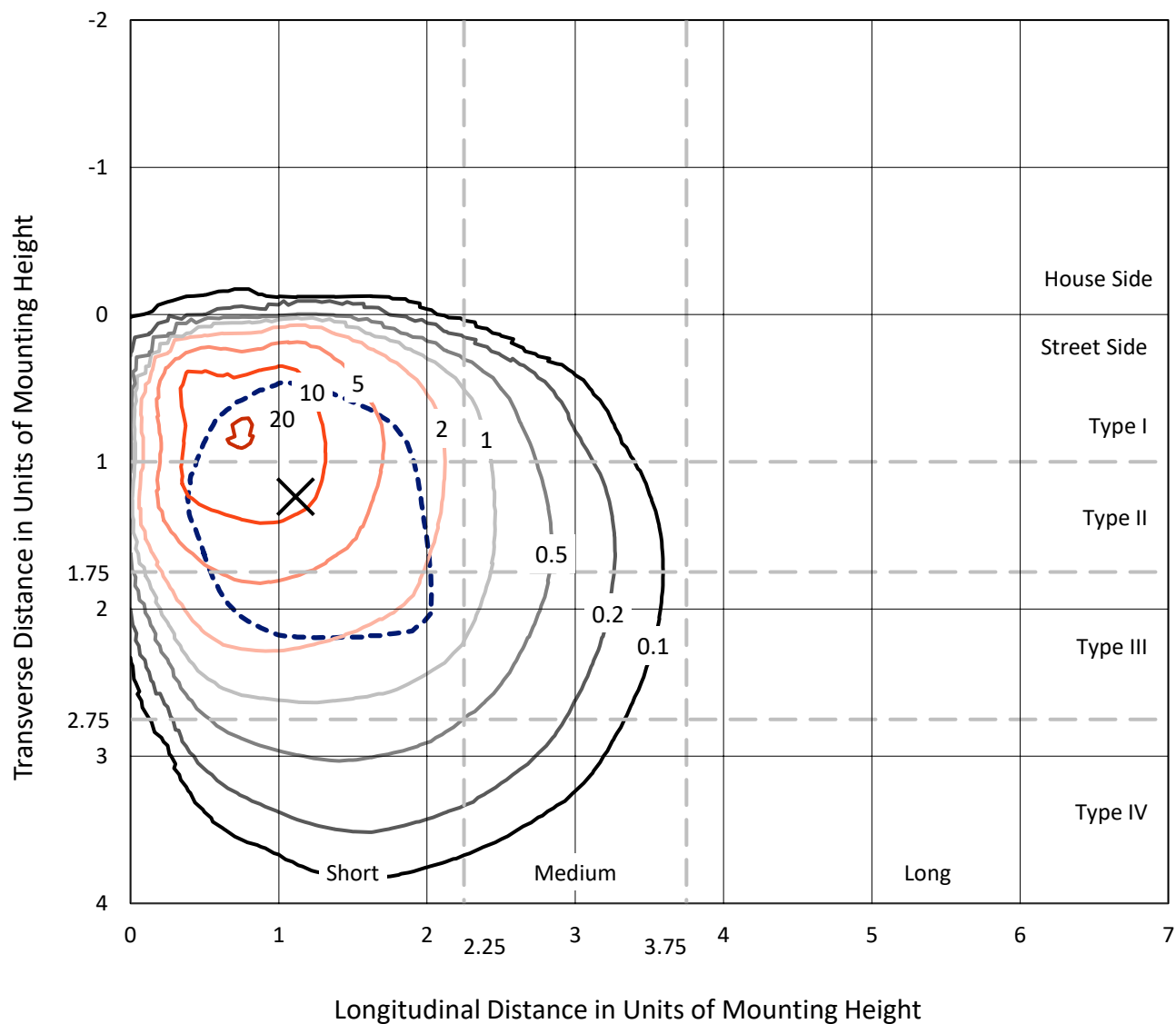
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

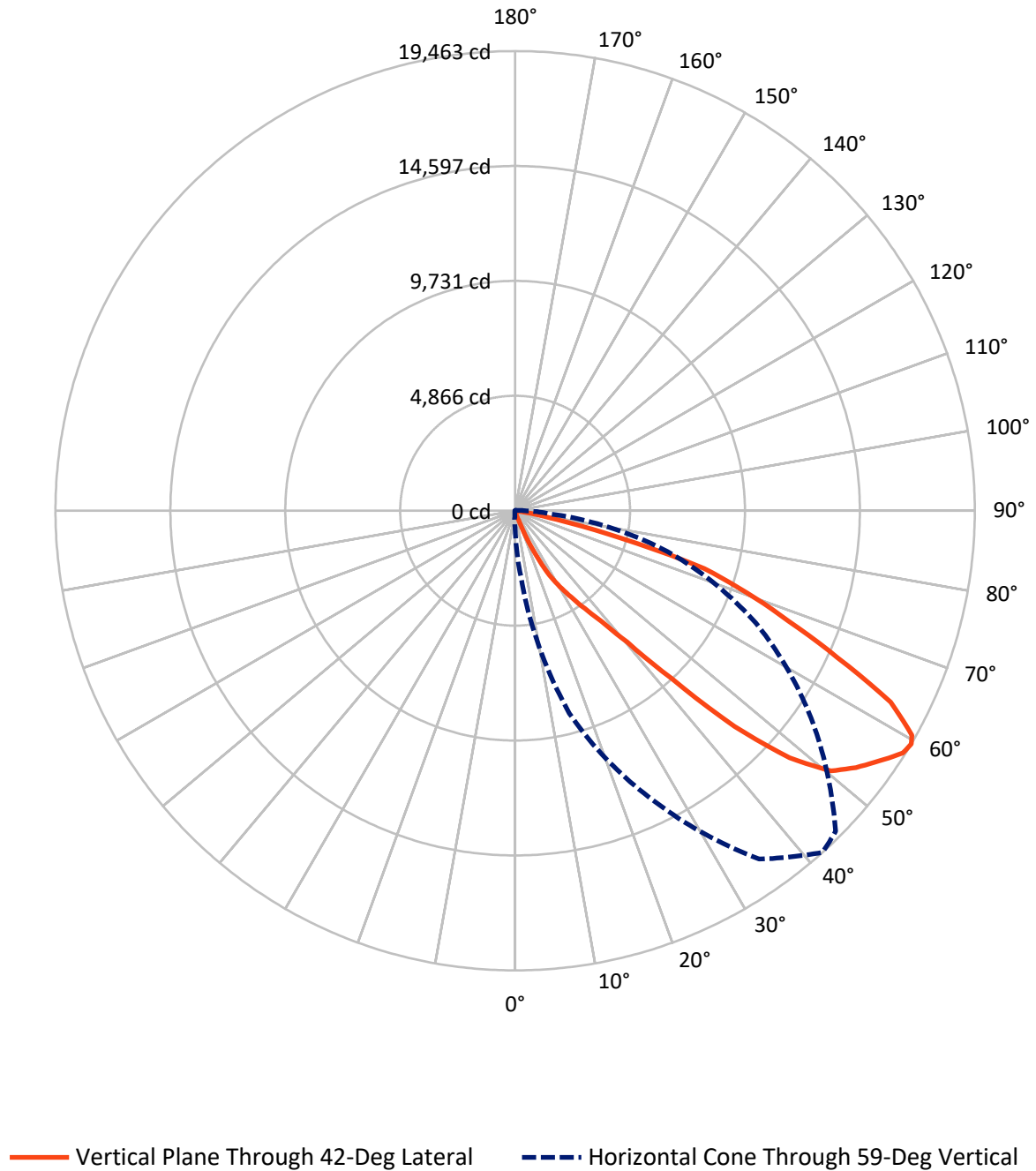


Based on 15 foot mounting height. Maximum calculated value = 21.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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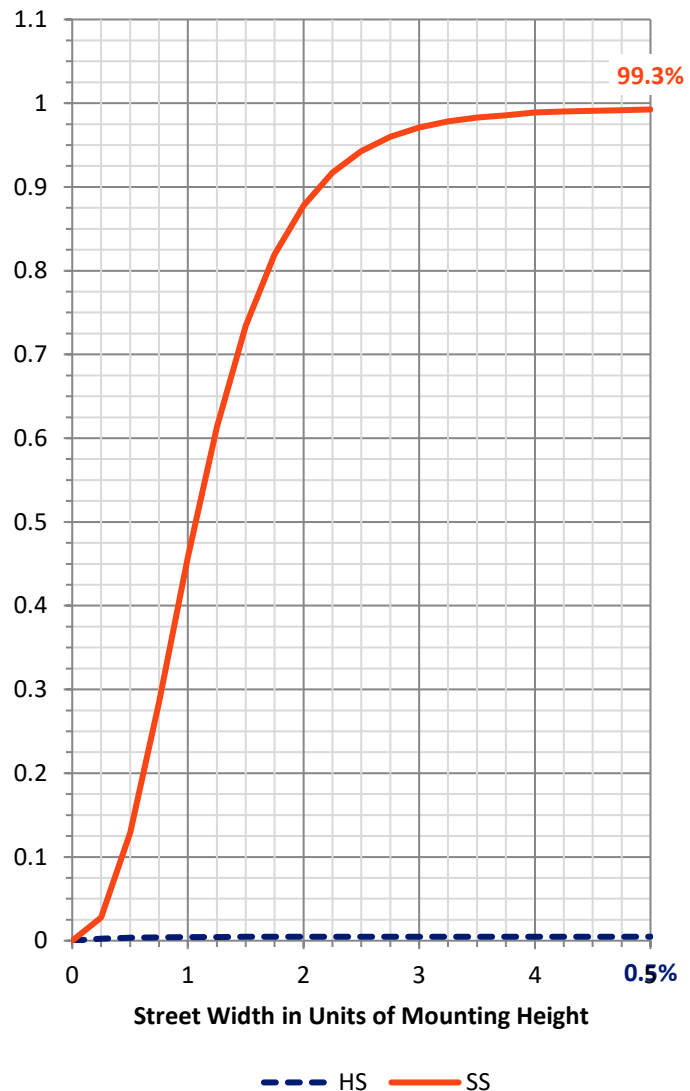
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	34.2	0.0	34.2
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	7059.3	0.0	7059.3
	% Fixture	99.5	0.0	99.5
Total	Lumens	7093.5	0.0	7093.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.0
10°-20°	10.3	0.1
20°-30°	132.3	1.9
30°-40°	446.1	6.3
40°-50°	1347.4	19.0
50°-60°	2378.5	33.5
60°-70°	2094.3	29.5
70°-80°	666.6	9.4
80°-90°	15.9	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°	7093.5	100.0
0°-180°	7093.5	100.0



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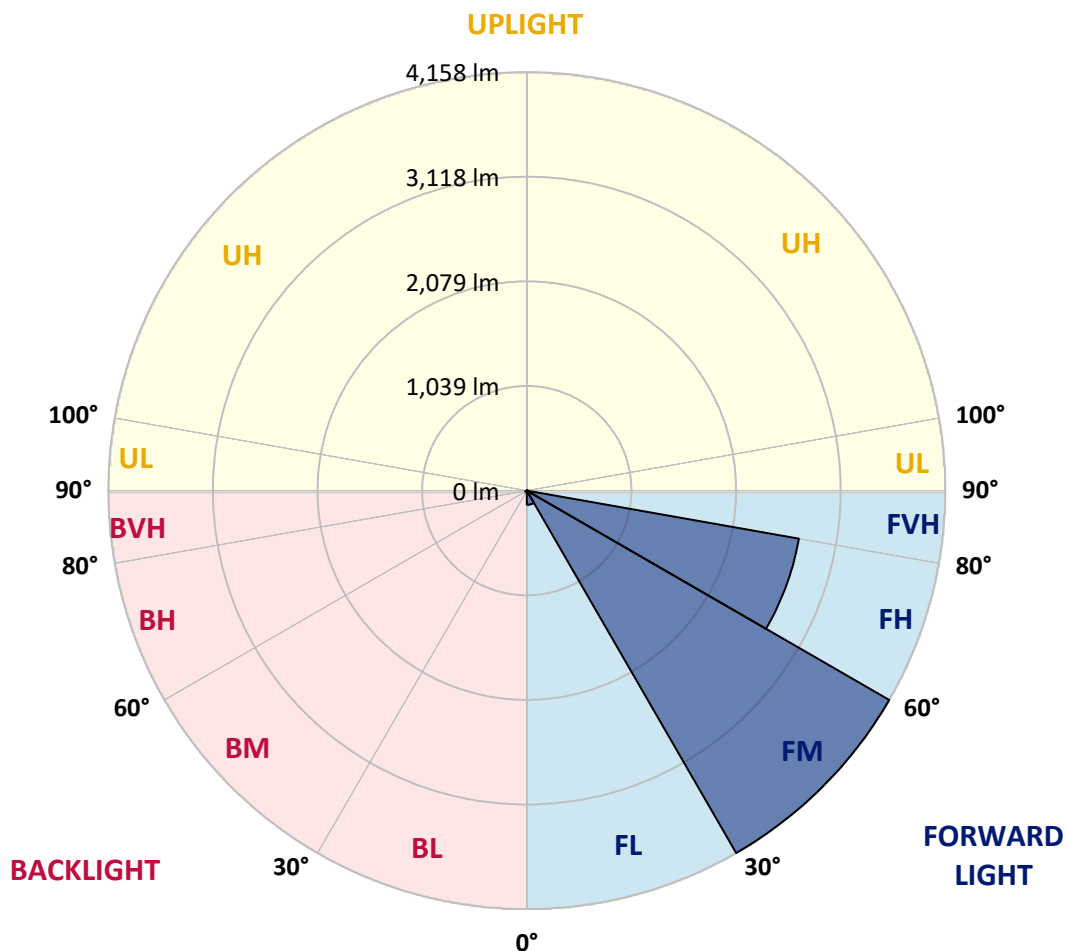
CATALOG NUMBER: NAV-SA2B-730-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	140.9	2.0			
FM	(30°-60°)	4158.0	58.6			
FH	(60°-80°)	2745.2	38.7			G2/5000
FVH	(80°-90°)	15.2	0.2			G1/100
BL	(0°-30°)	3.8	0.1	B0/110		
BM	(30°-60°)	14.0	0.2	B0/220		
BH	(60°-80°)	15.6	0.2	B0/110		G0/110
BVH	(80°-90°)	0.8	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°	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
2.5°	31.1	31.1	28.9	26.7	24.5	22.2	22.2	22.2	20.0	20.0	17.8
5°	35.6	35.6	33.4	31.1	31.1	28.9	28.9	26.7	24.5	24.5	22.2
7.5°	37.8	37.8	37.8	37.8	35.6	35.6	35.6	33.4	31.1	28.9	26.7
10°	40.0	42.3	44.5	44.5	44.5	44.5	44.5	42.3	37.8	35.6	31.1
12.5°	44.5	46.7	51.2	55.6	55.6	57.8	55.6	53.4	48.9	42.3	35.6
15°	48.9	53.4	60.0	68.9	77.8	80.1	80.1	73.4	64.5	51.2	42.3
17.5°	55.6	62.3	80.1	109.0	140.1	164.6	164.6	146.8	102.3	66.7	48.9
20°	60.0	73.4	129.0	262.4	400.3	502.6	482.6	427.0	229.1	104.5	53.4
22.5°	66.7	93.4	273.6	689.5	1067.5	1254.4	1209.9	918.5	513.8	186.8	64.5
25°	75.6	135.7	542.7	1292.2	1983.8	2186.2	2157.3	1714.7	936.3	313.6	82.3
27.5°	93.4	200.2	869.6	1959.4	2926.8	3100.3	3089.2	2510.9	1496.8	504.9	106.8
30°	117.9	291.3	1289.9	2662.2	3551.8	3727.5	3671.9	3093.6	2019.4	771.7	137.9
32.5°	146.8	407.0	1670.3	3180.4	4127.8	4359.1	4292.4	3600.7	2439.8	998.6	204.6
35°	191.3	520.4	2046.1	3638.5	4792.8	5086.4	4975.2	4123.4	2802.3	1254.4	246.9
37.5°	213.5	587.1	2390.8	4136.7	5540.1	5940.4	5855.9	4783.9	3171.5	1581.3	302.5
40°	215.7	667.2	2748.9	4786.1	6596.5	7310.4	7159.2	5918.2	3858.7	2001.6	389.2
42.5°	222.4	787.3	3213.7	5893.7	8671.6	9696.8	9525.6	8004.3	5417.8	2844.6	551.6
45°	253.5	1014.2	4161.2	7964.3	11520.6	13024.0	12826.1	10911.2	7595.1	4430.3	940.8
47.5°	362.5	1525.7	5822.5	10199.5	14434.1	15632.8	15583.9	13201.9	9567.8	6056.1	1594.6
50°	582.7	2341.9	7713.0	12078.8	16288.9	17318.6	17196.3	14158.3	10693.2	7165.9	2043.9
52.5°	778.4	3122.6	8900.6	12770.5	16842.7	18070.4	17921.4	14507.4	10989.0	7492.8	2168.4
55°	827.3	3405.0	9254.3	12984.0	17209.7	18706.4	18490.7	14741.0	11026.8	7259.3	1961.6
57.5°	802.9	3138.1	9025.2	13193.0	17721.2	19360.3	19073.4	15196.9	11153.6	6863.4	1632.4
59°	760.6	2809.0	8882.8	13359.8	18003.6	19462.6	19193.5	15297.0	11238.1	6683.3	1432.3
60°	711.7	2586.6	8771.6	13468.8	17985.9	19302.5	19024.5	15250.3	11271.5	6527.6	1336.7
62.5°	549.3	2063.9	8611.5	13391.0	16862.7	17841.3	17683.4	14107.1	10782.2	6029.4	1054.2
65°	427.0	1579.1	8024.4	11943.1	14349.5	15007.9	14958.9	11945.3	9074.1	5197.6	760.6
67.5°	338.1	1152.1	6785.6	9672.4	11545.0	12481.3	12445.8	9696.8	6887.9	3972.1	547.1
70°	275.8	820.7	4652.7	7292.6	9234.2	10413.0	10361.8	7804.2	5104.2	2519.8	398.1
72.5°	233.5	524.9	2822.3	5497.8	7706.3	8380.2	8231.2	6296.3	3711.9	1372.2	315.8
75°	197.9	322.5	1398.9	3427.3	4590.4	4586.0	4437.0	3333.8	1992.7	671.7	251.3
77.5°	160.1	226.9	549.3	940.8	1447.9	1792.6	1763.7	1181.0	596.0	195.7	155.7
80°	104.5	106.8	146.8	258.0	398.1	440.4	500.4	360.3	173.5	93.4	64.5
82.5°	46.7	51.2	66.7	84.5	84.5	77.8	68.9	51.2	37.8	31.1	15.6
85°	11.1	15.6	11.1	13.3	11.1	8.9	8.9	4.4	0.0	0.0	0.0
87.5°	2.2	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°	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
2.5°	17.8	17.8	17.8	15.6	15.6	15.6	13.3	13.3	13.3	11.1	11.1
5°	22.2	20.0	17.8	17.8	15.6	15.6	13.3	11.1	11.1	11.1	8.9
7.5°	24.5	22.2	20.0	17.8	15.6	13.3	13.3	11.1	8.9	8.9	8.9
10°	28.9	26.7	22.2	17.8	15.6	13.3	11.1	11.1	8.9	6.7	6.7
12.5°	33.4	28.9	24.5	20.0	15.6	13.3	11.1	11.1	8.9	6.7	4.4
15°	37.8	33.4	26.7	20.0	15.6	13.3	11.1	11.1	6.7	4.4	2.2
17.5°	42.3	35.6	26.7	22.2	15.6	13.3	11.1	8.9	4.4	2.2	0.0
20°	44.5	37.8	28.9	22.2	15.6	13.3	11.1	6.7	2.2	0.0	0.0
22.5°	48.9	42.3	31.1	22.2	15.6	11.1	6.7	2.2	0.0	0.0	0.0
25°	57.8	44.5	31.1	22.2	15.6	11.1	4.4	0.0	0.0	0.0	0.0
27.5°	64.5	48.9	31.1	22.2	15.6	8.9	2.2	0.0	0.0	0.0	0.0
30°	75.6	53.4	33.4	22.2	15.6	6.7	2.2	0.0	0.0	0.0	0.0
32.5°	93.4	57.8	33.4	22.2	13.3	6.7	0.0	0.0	0.0	0.0	0.0
35°	113.4	66.7	33.4	22.2	13.3	6.7	0.0	0.0	0.0	0.0	0.0
37.5°	115.7	71.2	33.4	22.2	13.3	4.4	0.0	0.0	0.0	0.0	0.0
40°	120.1	66.7	35.6	22.2	13.3	4.4	0.0	0.0	0.0	0.0	0.0
42.5°	137.9	62.3	37.8	22.2	13.3	4.4	0.0	0.0	0.0	0.0	0.0
45°	204.6	64.5	37.8	24.5	13.3	6.7	0.0	0.0	0.0	0.0	0.0
47.5°	355.8	66.7	35.6	24.5	13.3	6.7	0.0	0.0	0.0	0.0	0.0
50°	455.9	77.8	35.6	26.7	15.6	4.4	0.0	0.0	0.0	0.0	0.0
52.5°	484.8	91.2	35.6	28.9	20.0	2.2	0.0	0.0	0.0	0.0	0.0
55°	471.5	106.8	37.8	31.1	24.5	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	435.9	115.7	40.0	33.4	26.7	0.0	0.0	0.0	0.0	0.0	0.0
59°	398.1	122.3	46.7	35.6	26.7	0.0	0.0	0.0	0.0	0.0	0.0
60°	367.0	129.0	48.9	37.8	26.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	295.8	137.9	53.4	44.5	22.2	0.0	0.0	0.0	0.0	0.0	0.0
65°	258.0	144.6	55.6	48.9	20.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	235.7	149.0	60.0	51.2	17.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	218.0	146.8	64.5	48.9	15.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	197.9	140.1	77.8	44.5	13.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	177.9	126.8	84.5	40.0	8.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	129.0	106.8	77.8	35.6	4.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	55.6	57.8	55.6	26.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	11.1	13.3	11.1	6.7	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°	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
2.5°	11.1	11.1	11.1	11.1	13.3	13.3	17.8	22.2	26.7	28.9	28.9
5°	8.9	8.9	8.9	8.9	8.9	11.1	13.3	17.8	24.5	26.7	26.7
7.5°	6.7	6.7	6.7	6.7	6.7	6.7	11.1	15.6	22.2	24.5	26.7
10°	6.7	4.4	4.4	2.2	2.2	4.4	6.7	13.3	20.0	22.2	24.5
12.5°	4.4	2.2	2.2	0.0	0.0	2.2	4.4	11.1	17.8	20.0	22.2
15°	2.2	0.0	0.0	0.0	0.0	0.0	2.2	8.9	15.6	17.8	22.2
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	13.3	17.8	20.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	11.1	15.6	17.8
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	8.9	13.3	15.6
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	8.9	11.1
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	6.7	8.9
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	6.7	8.9
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.4	6.7
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.4	6.7
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.4	4.4
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.4
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.4
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.4
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.4
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.4
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2
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°	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
2.5°	31.1	31.1	28.9	26.7	26.7	26.7	28.9	31.1	31.1	31.1
5°	28.9	28.9	26.7	26.7	26.7	26.7	28.9	33.4	35.6	35.6
7.5°	28.9	28.9	26.7	26.7	26.7	26.7	28.9	33.4	35.6	37.8
10°	26.7	26.7	26.7	26.7	24.5	26.7	28.9	33.4	40.0	40.0
12.5°	26.7	26.7	26.7	26.7	24.5	26.7	31.1	35.6	42.3	44.5
15°	26.7	26.7	26.7	24.5	24.5	26.7	31.1	37.8	44.5	48.9
17.5°	24.5	26.7	26.7	24.5	24.5	26.7	31.1	37.8	48.9	55.6
20°	22.2	24.5	26.7	24.5	24.5	24.5	31.1	37.8	51.2	60.0
22.5°	20.0	22.2	24.5	24.5	22.2	24.5	31.1	40.0	55.6	66.7
25°	17.8	20.0	20.0	22.2	22.2	24.5	31.1	40.0	57.8	75.6
27.5°	13.3	15.6	17.8	20.0	20.0	24.5	31.1	42.3	62.3	93.4
30°	11.1	13.3	15.6	17.8	20.0	24.5	31.1	42.3	66.7	117.9
32.5°	11.1	13.3	15.6	17.8	20.0	22.2	31.1	44.5	73.4	146.8
35°	8.9	11.1	13.3	17.8	17.8	22.2	31.1	44.5	80.1	191.3
37.5°	8.9	11.1	13.3	17.8	17.8	22.2	31.1	44.5	97.9	213.5
40°	6.7	8.9	11.1	17.8	17.8	22.2	33.4	46.7	100.1	215.7
42.5°	6.7	8.9	11.1	15.6	17.8	22.2	33.4	46.7	93.4	222.4
45°	6.7	8.9	11.1	17.8	20.0	24.5	33.4	48.9	91.2	253.5
47.5°	6.7	8.9	11.1	17.8	22.2	24.5	33.4	48.9	93.4	362.5
50°	6.7	8.9	11.1	17.8	24.5	24.5	33.4	48.9	102.3	582.7
52.5°	4.4	6.7	8.9	15.6	20.0	26.7	35.6	46.7	109.0	778.4
55°	4.4	4.4	6.7	13.3	17.8	28.9	37.8	46.7	126.8	827.3
57.5°	4.4	4.4	6.7	11.1	15.6	31.1	40.0	46.7	146.8	802.9
59°	4.4	4.4	4.4	11.1	13.3	31.1	40.0	48.9	149.0	760.6
60°	4.4	4.4	4.4	8.9	13.3	31.1	42.3	51.2	151.2	711.7
62.5°	2.2	2.2	2.2	8.9	11.1	31.1	46.7	62.3	155.7	549.3
65°	4.4	4.4	2.2	6.7	11.1	26.7	53.4	66.7	157.9	427.0
67.5°	4.4	4.4	4.4	8.9	11.1	26.7	55.6	68.9	157.9	338.1
70°	4.4	4.4	4.4	8.9	13.3	26.7	55.6	71.2	155.7	275.8
72.5°	4.4	4.4	4.4	8.9	13.3	24.5	51.2	73.4	149.0	233.5
75°	4.4	4.4	4.4	6.7	11.1	22.2	48.9	80.1	135.7	197.9
77.5°	4.4	4.4	4.4	4.4	8.9	17.8	44.5	89.0	120.1	160.1
80°	6.7	4.4	4.4	4.4	6.7	15.6	42.3	86.7	100.1	104.5
82.5°	6.7	4.4	4.4	2.2	4.4	11.1	33.4	66.7	51.2	46.7
85°	4.4	4.4	4.4	2.2	2.2	6.7	15.6	20.0	15.6	11.1
87.5°	4.4	4.4	4.4	2.2	2.2	2.2	2.2	2.2	2.2	2.2
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

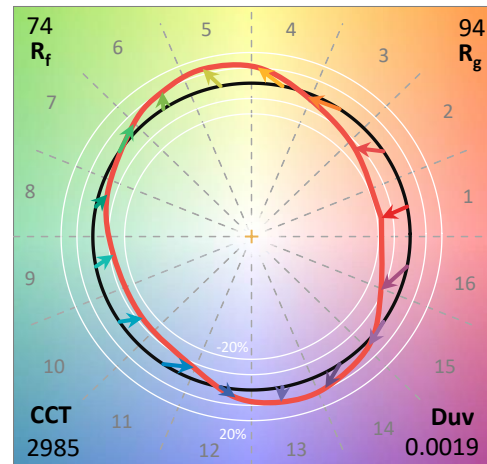
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

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

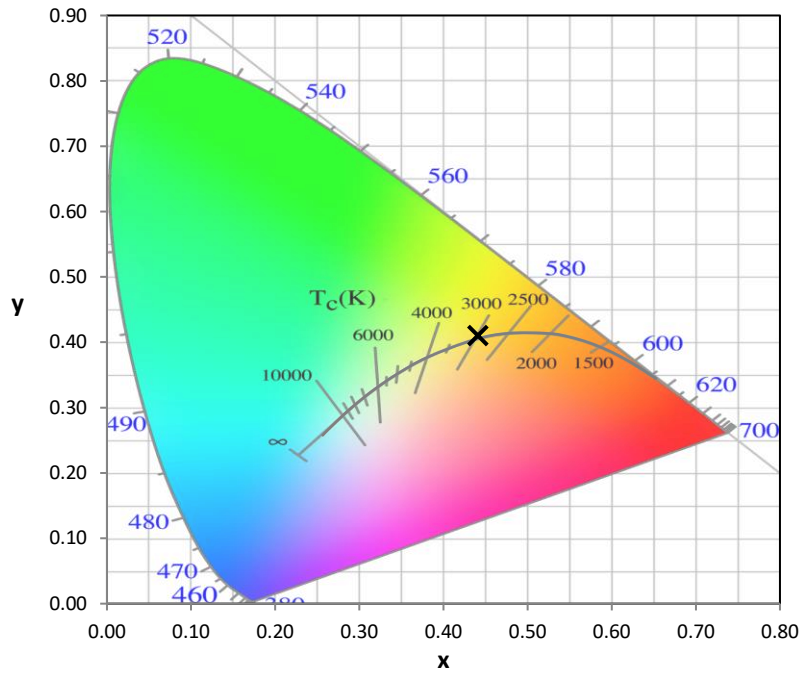
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

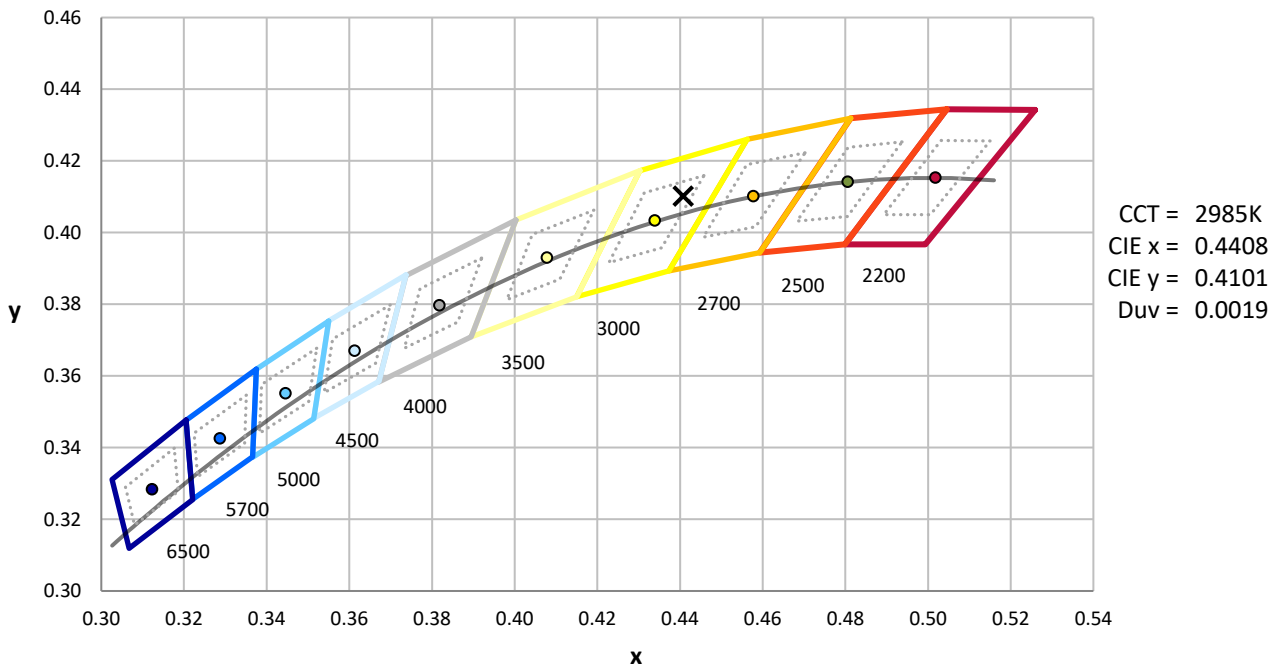
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



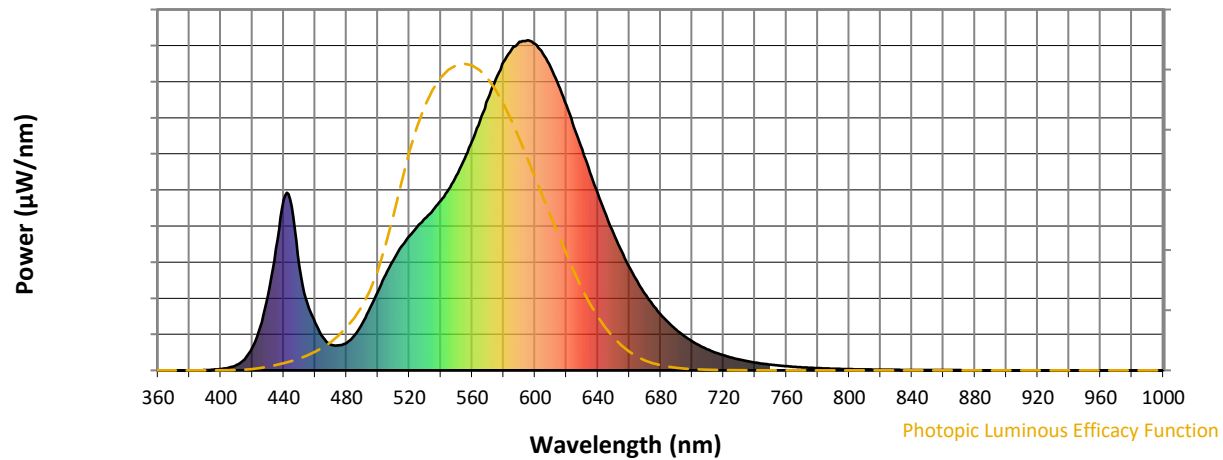
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

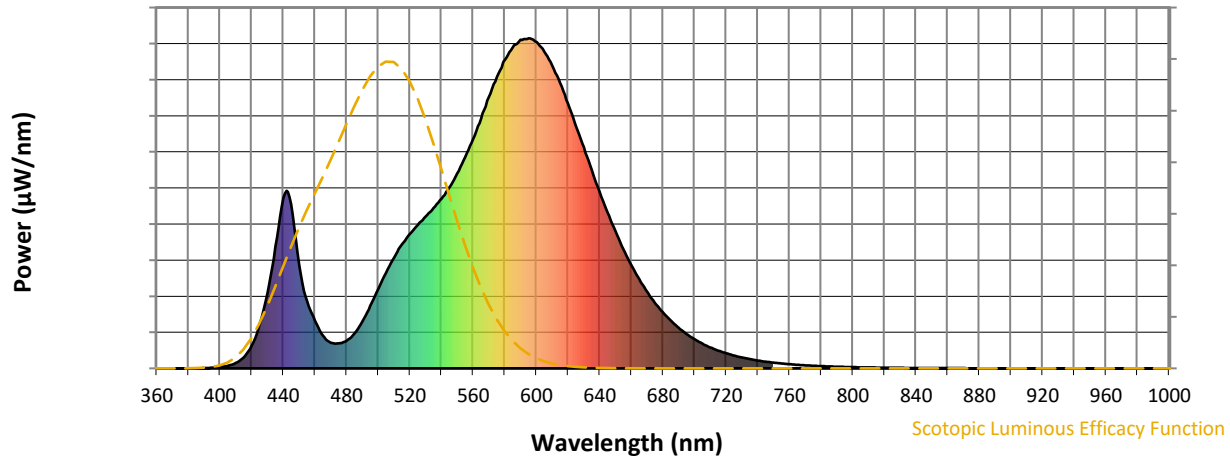


Photopic Lumens: NR

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



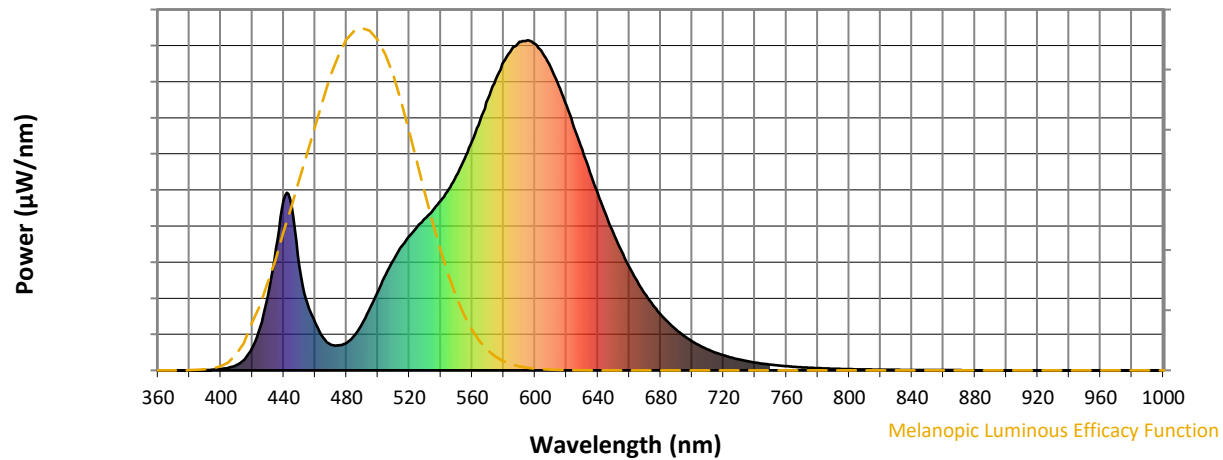
Scotopic Lumens: NR

S/P: 1.19

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.13

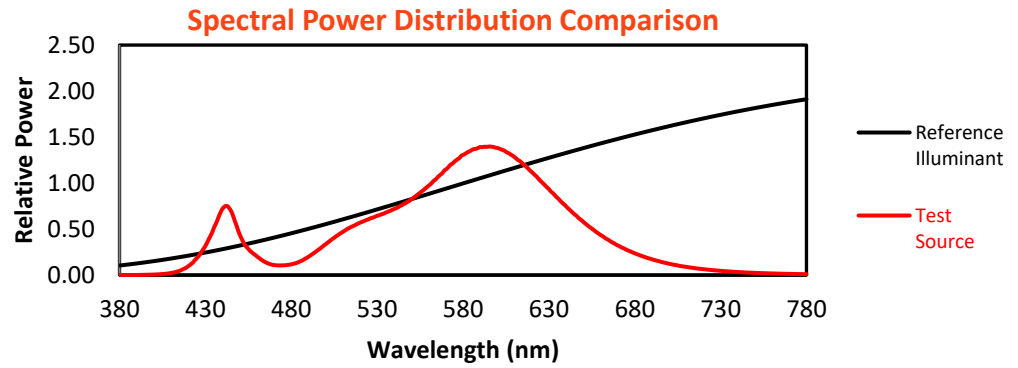
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803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

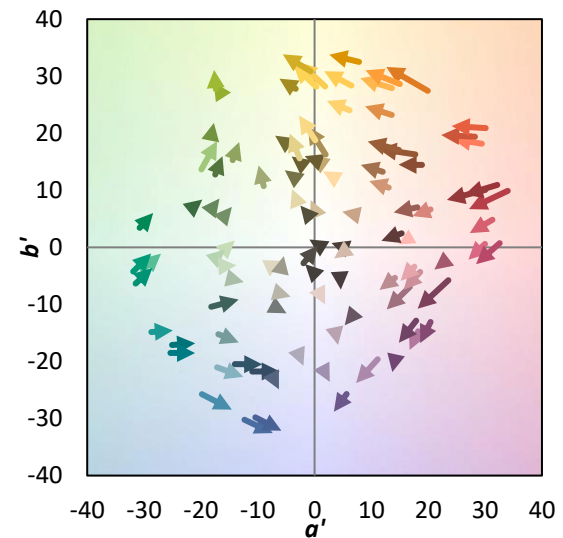
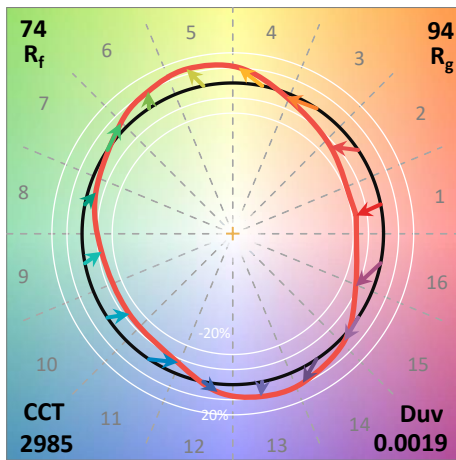
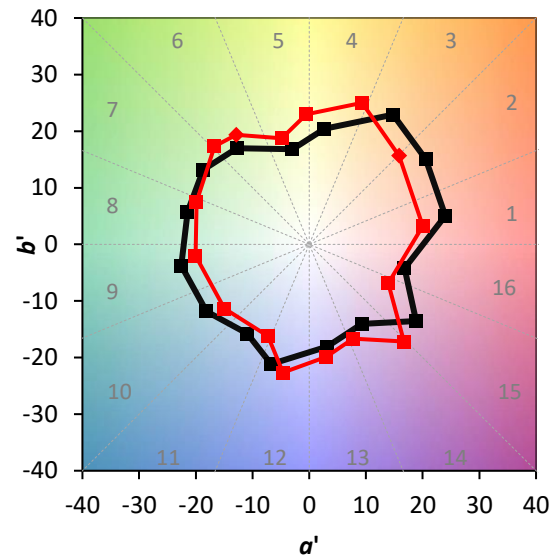
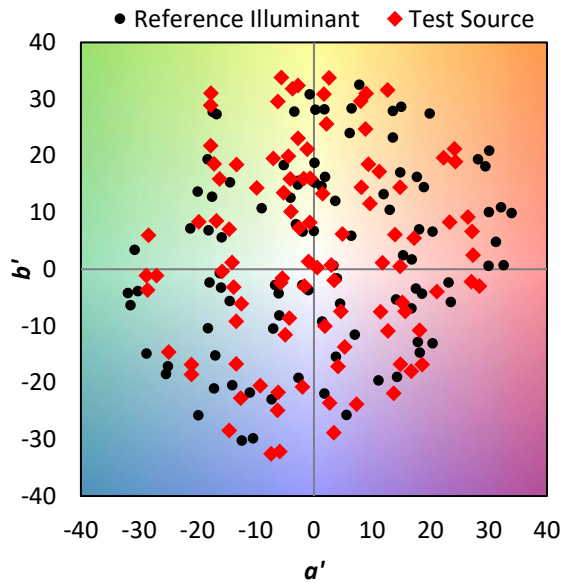
TM-30-18

Summary

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

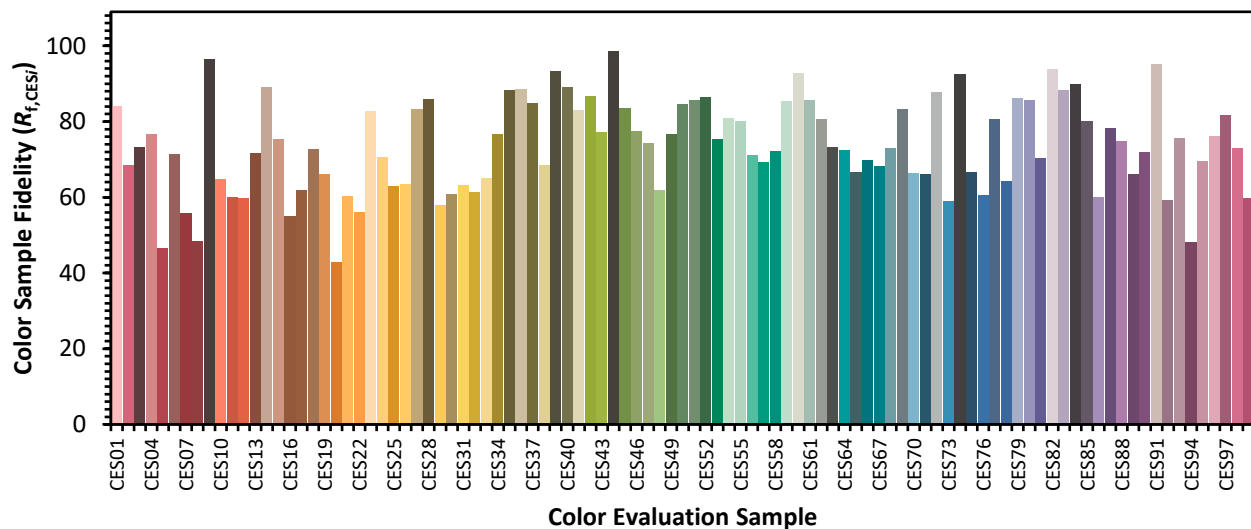


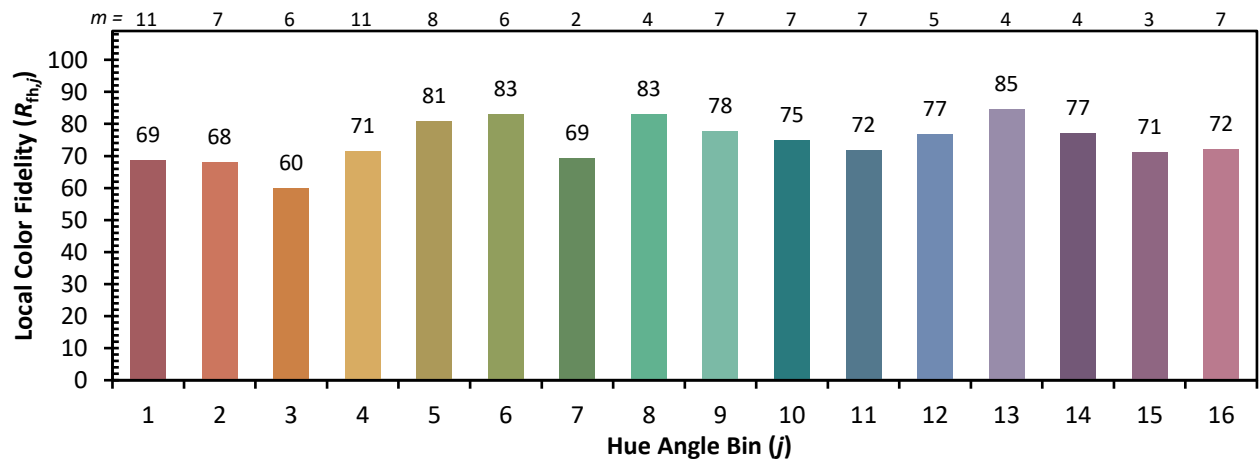
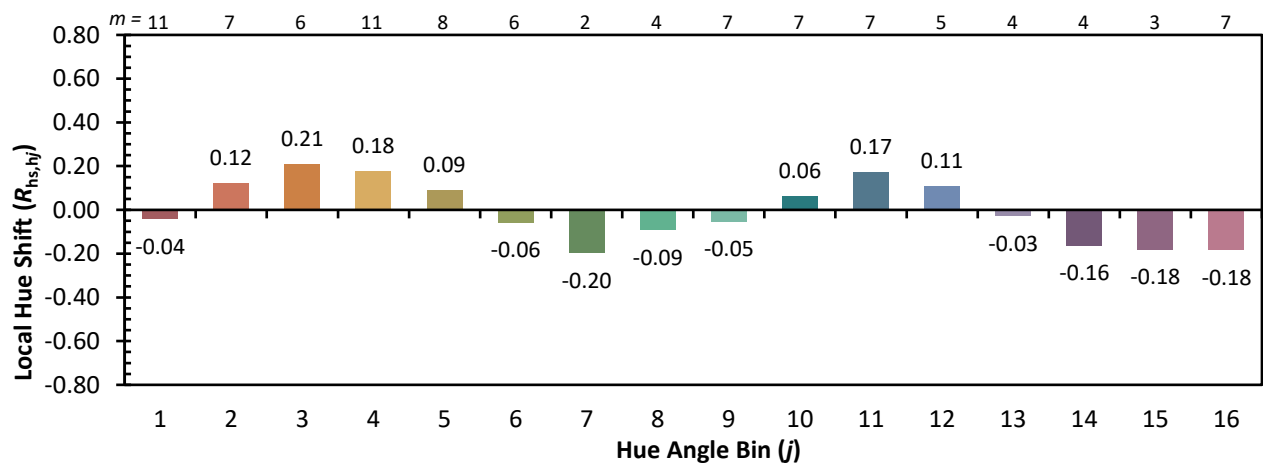
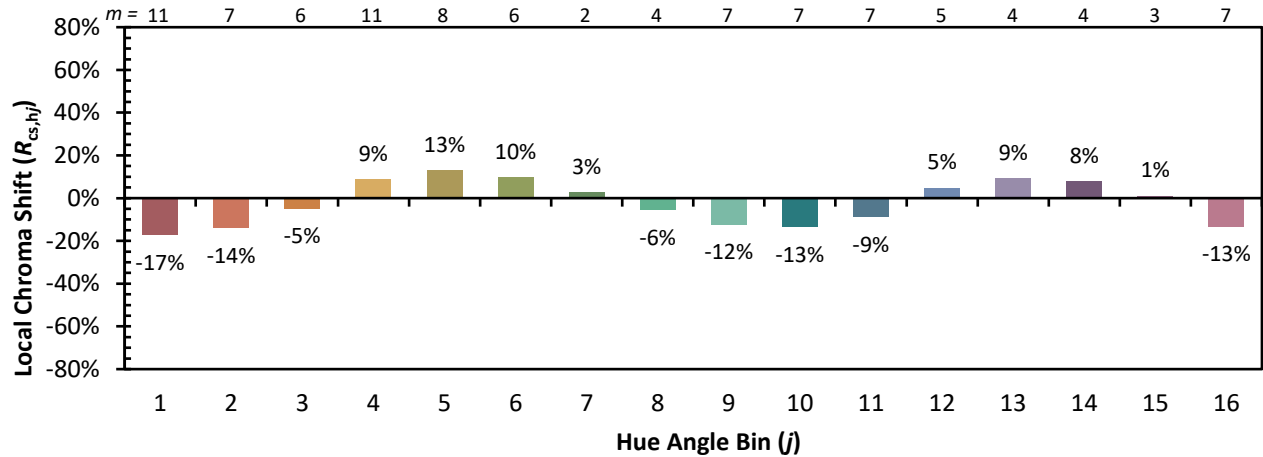
Color Vector Graphics

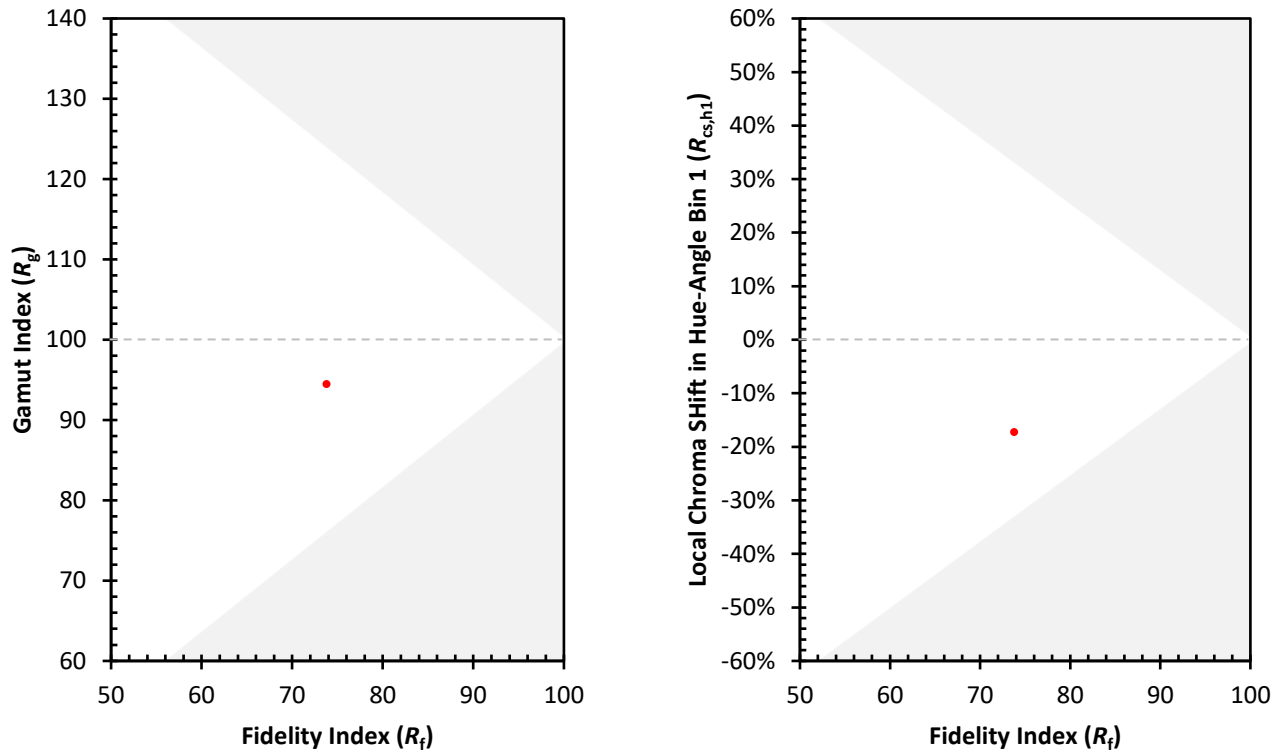


Individual Sample Fidelity Index ($R_{f,i}$)

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)