

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: P1067930

Luminaire Tested: **NAV-SA4B-727-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067930
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA4B-727-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 4xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12716.1 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 144.1
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



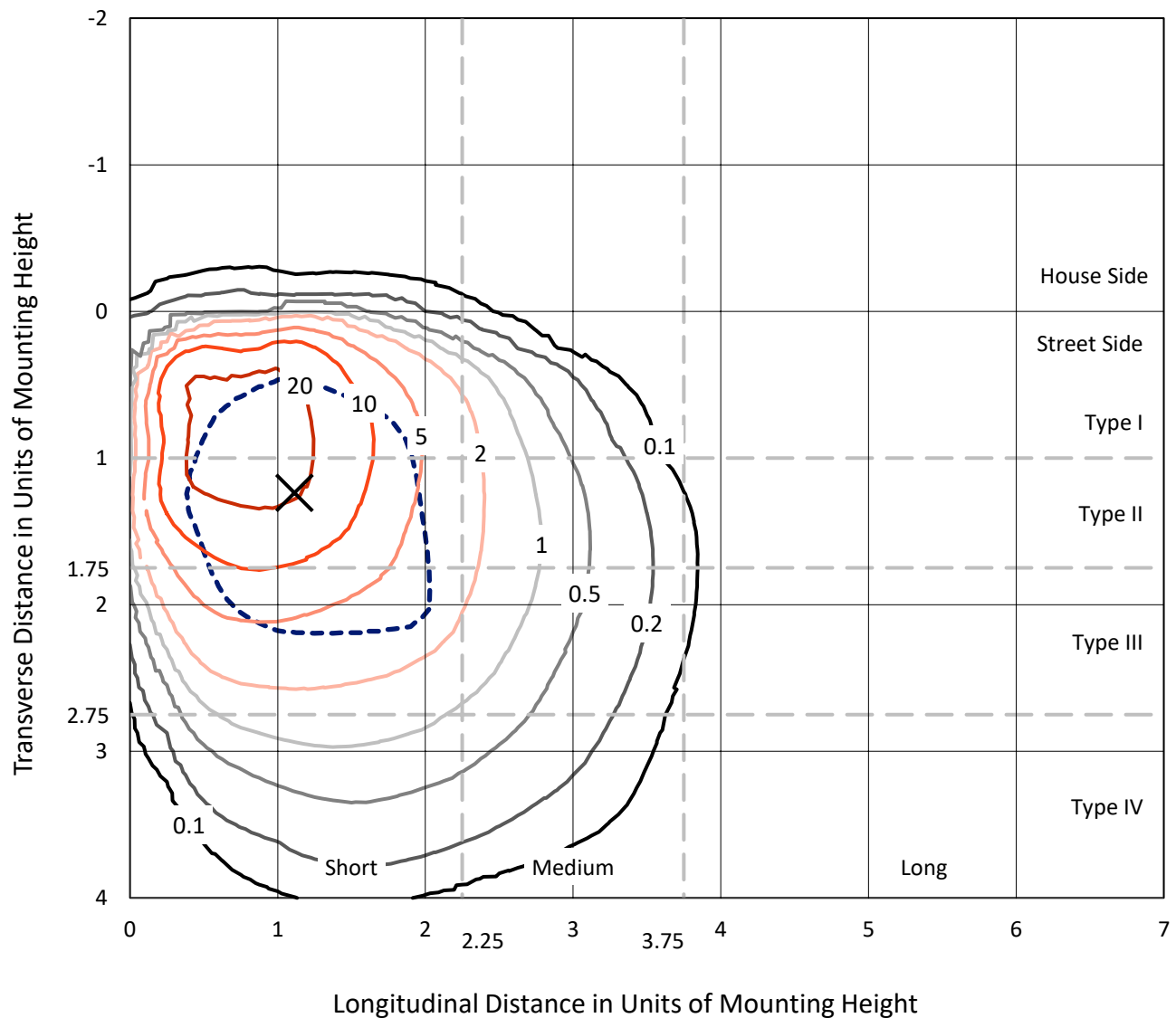
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

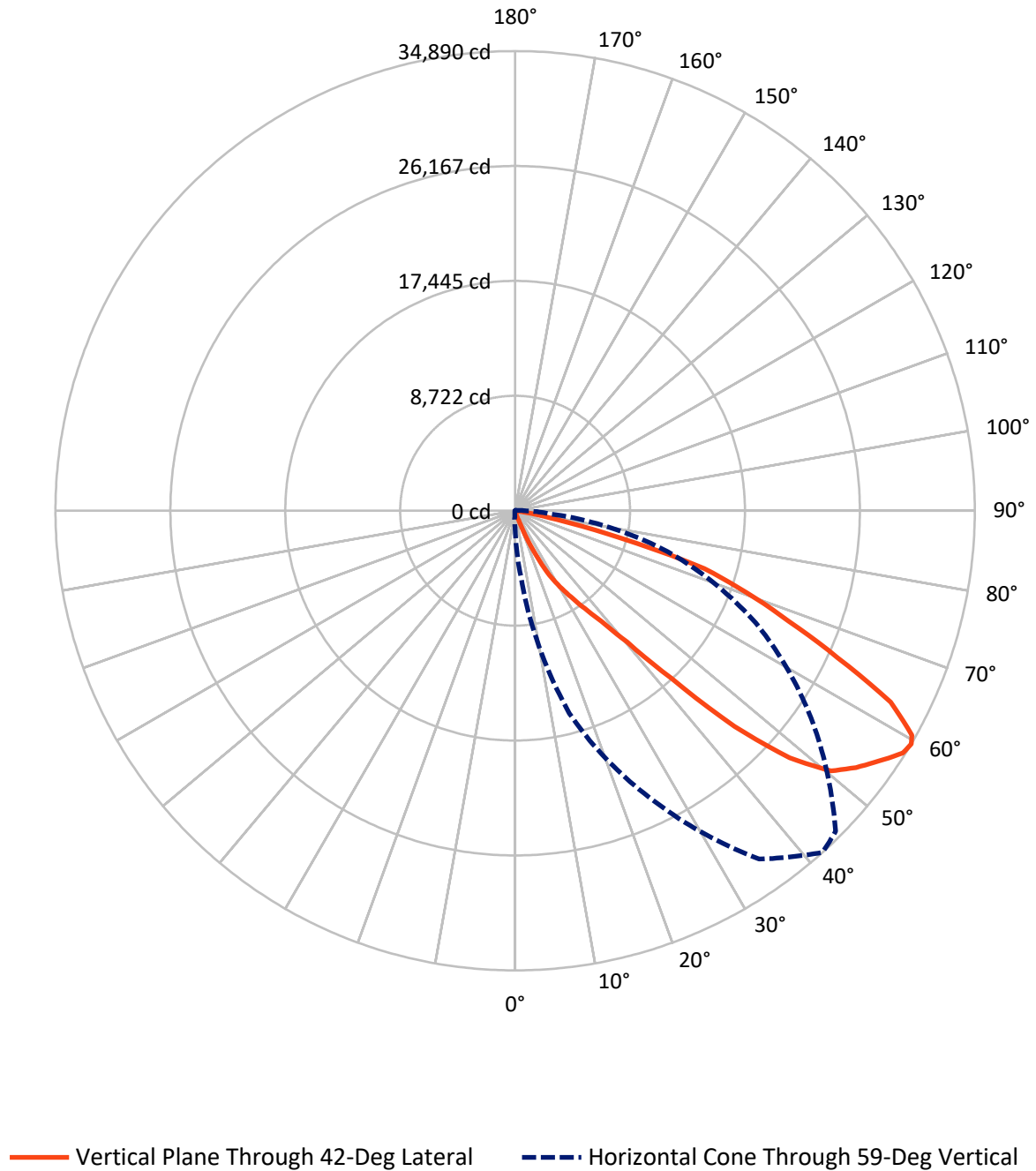


Based on 15 foot mounting height. Maximum calculated value = 37.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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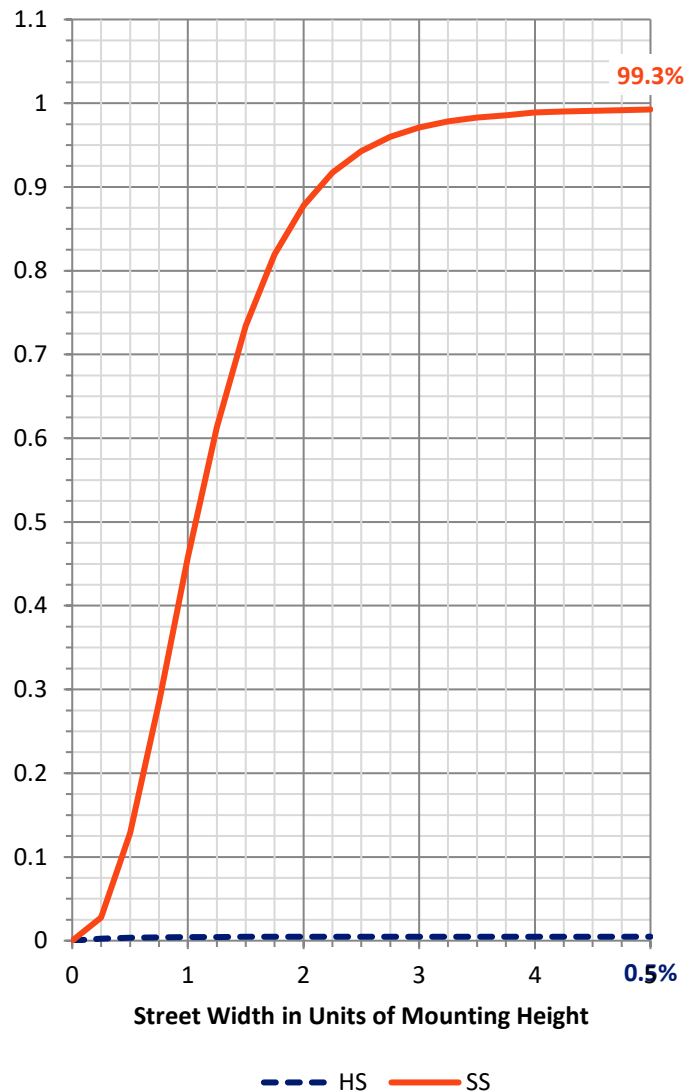
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	61.3	0.0	61.3
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	12654.9	0.0	12654.9
	% Fixture	99.5	0.0	99.5
Total	Lumens	12716.1	0.0	12716.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.7	0.0
10°-20°	18.5	0.1
20°-30°	237.2	1.9
30°-40°	799.7	6.3
40°-50°	2415.4	19.0
50°-60°	4263.7	33.5
60°-70°	3754.3	29.5
70°-80°	1195.0	9.4
80°-90°	28.6	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°	12716.1	100.0
0°-180°	12716.1	100.0



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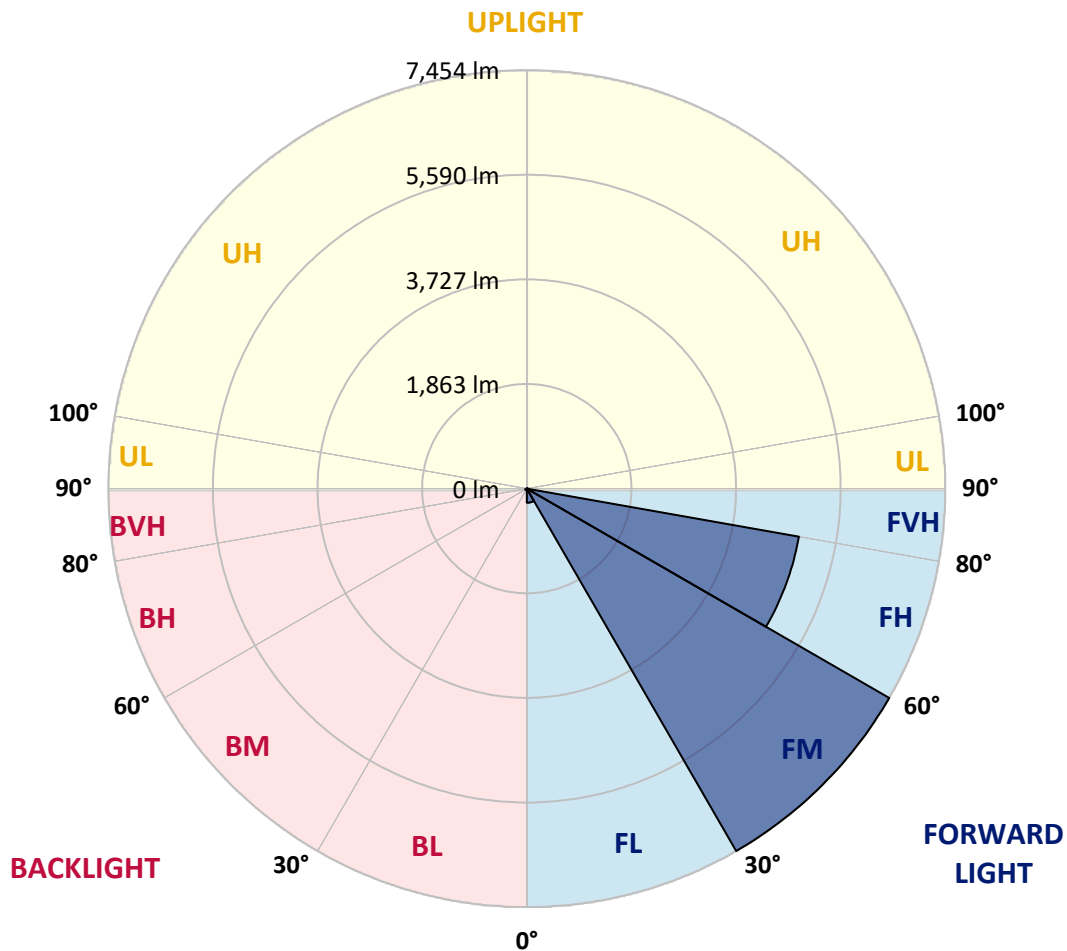
CATALOG NUMBER: NAV-SA4B-727-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	252.6	2.0			
FM	(30°-60°)	7453.8	58.6			
FH	(60°-80°)	4921.3	38.7			G2/5000
FVH	(80°-90°)	27.2	0.2			G1/100
BL	(0°-30°)	6.8	0.1	B0/110		
BM	(30°-60°)	25.0	0.2	B0/220		
BH	(60°-80°)	28.0	0.2	B0/110		G0/110
BVH	(80°-90°)	1.4	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9
2.5°	55.8	55.8	51.8	47.8	43.9	39.9	39.9	39.9	35.9	35.9	31.9
5°	63.8	63.8	59.8	55.8	55.8	51.8	51.8	47.8	43.9	43.9	39.9
7.5°	67.8	67.8	67.8	67.8	63.8	63.8	63.8	59.8	55.8	51.8	47.8
10°	71.8	75.8	79.7	79.7	79.7	79.7	79.7	75.8	67.8	63.8	55.8
12.5°	79.7	83.7	91.7	99.7	99.7	103.7	99.7	95.7	87.7	75.8	63.8
15°	87.7	95.7	107.6	123.6	139.5	143.5	143.5	131.6	115.6	91.7	75.8
17.5°	99.7	111.6	143.5	195.4	251.2	295.0	295.0	263.1	183.4	119.6	87.7
20°	107.6	131.6	231.2	470.5	717.6	901.0	865.2	765.5	410.7	187.4	95.7
22.5°	119.6	167.5	490.4	1235.9	1913.7	2248.6	2168.9	1646.6	921.0	334.9	115.6
25°	135.6	243.2	972.8	2316.4	3556.3	3919.2	3867.3	3073.9	1678.5	562.2	147.5
27.5°	167.5	358.8	1558.9	3512.5	5246.8	5557.8	5537.9	4501.2	2683.2	905.0	191.4
30°	211.3	522.3	2312.4	4772.4	6367.1	6682.1	6582.4	5545.8	3620.1	1383.5	247.2
32.5°	263.1	729.6	2994.2	5701.3	7399.7	7814.4	7694.8	6454.8	4373.7	1790.1	366.8
35°	342.9	932.9	3668.0	6522.6	8591.8	9118.1	8918.8	7391.8	5023.5	2248.6	442.5
37.5°	382.7	1052.6	4286.0	7415.7	9931.5	10649.1	10497.6	8575.9	5685.4	2834.7	542.2
40°	386.7	1196.1	4927.8	8579.9	11825.2	13105.1	12833.9	10609.2	6917.3	3588.2	697.7
42.5°	398.7	1411.4	5761.1	10565.4	15545.1	17383.0	17076.0	14349.0	9712.2	5099.3	988.8
45°	454.5	1818.0	7459.6	14277.2	20652.3	23347.5	22992.6	19559.9	13615.4	7942.0	1686.5
47.5°	649.9	2735.0	10437.8	18284.1	25875.2	28024.2	27936.4	23666.4	17151.8	10856.4	2858.6
50°	1044.6	4198.2	13826.7	21653.0	29200.3	31046.3	30827.0	25380.8	19169.2	12845.9	3664.0
52.5°	1395.4	5597.7	15955.7	22893.0	30193.0	32393.8	32126.7	26006.8	19699.4	13432.0	3887.3
55°	1483.1	6104.0	16589.6	23275.7	30850.9	33534.1	33147.4	26425.4	19767.2	13013.4	3516.5
57.5°	1439.3	5625.6	16179.0	23650.5	31767.9	34706.3	34191.9	27242.7	19994.5	12303.7	2926.4
59°	1363.5	5035.5	15923.8	23949.5	32274.2	34889.7	34407.2	27422.1	20146.0	11980.7	2567.6
60°	1275.8	4636.8	15724.5	24144.9	32242.3	34602.6	34104.2	27338.4	20205.8	11701.6	2396.1
62.5°	984.8	3699.9	15437.4	24005.3	30228.9	31983.2	31700.1	25289.1	19328.7	10808.6	1889.8
65°	765.5	2830.7	14384.9	21409.8	25723.7	26903.8	26816.1	21413.8	16266.7	9317.5	1363.5
67.5°	606.0	2065.2	12164.1	17339.2	20696.2	22374.7	22310.9	17383.0	12347.5	7120.7	980.8
70°	494.4	1471.2	8340.7	13073.2	16553.7	18666.8	18575.1	13990.1	9150.0	4517.2	713.7
72.5°	418.6	940.9	5059.4	9855.7	13814.7	15022.8	14755.6	11287.0	6654.2	2459.9	566.1
75°	354.8	578.1	2507.8	6143.9	8229.0	8221.1	7953.9	5976.4	3572.3	1204.1	450.5
77.5°	287.1	406.7	984.8	1686.5	2595.5	3213.5	3161.6	2117.1	1068.5	350.9	279.1
80°	187.4	191.4	263.1	462.5	713.7	789.4	897.1	645.9	311.0	167.5	115.6
82.5°	83.7	91.7	119.6	151.5	151.5	139.5	123.6	91.7	67.8	55.8	27.9
85°	19.9	27.9	19.9	23.9	19.9	15.9	15.9	8.0	0.0	0.0	0.0
87.5°	4.0	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°	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9
2.5°	31.9	31.9	31.9	27.9	27.9	27.9	23.9	23.9	23.9	19.9	19.9
5°	39.9	35.9	31.9	31.9	27.9	27.9	23.9	19.9	19.9	19.9	15.9
7.5°	43.9	39.9	35.9	31.9	27.9	23.9	23.9	19.9	15.9	15.9	15.9
10°	51.8	47.8	39.9	31.9	27.9	23.9	19.9	19.9	15.9	12.0	12.0
12.5°	59.8	51.8	43.9	35.9	27.9	23.9	19.9	19.9	15.9	12.0	8.0
15°	67.8	59.8	47.8	35.9	27.9	23.9	19.9	19.9	12.0	8.0	4.0
17.5°	75.8	63.8	47.8	39.9	27.9	23.9	19.9	15.9	8.0	4.0	0.0
20°	79.7	67.8	51.8	39.9	27.9	23.9	19.9	12.0	4.0	0.0	0.0
22.5°	87.7	75.8	55.8	39.9	27.9	19.9	12.0	4.0	0.0	0.0	0.0
25°	103.7	79.7	55.8	39.9	27.9	19.9	8.0	0.0	0.0	0.0	0.0
27.5°	115.6	87.7	55.8	39.9	27.9	15.9	4.0	0.0	0.0	0.0	0.0
30°	135.6	95.7	59.8	39.9	27.9	12.0	4.0	0.0	0.0	0.0	0.0
32.5°	167.5	103.7	59.8	39.9	23.9	12.0	0.0	0.0	0.0	0.0	0.0
35°	203.3	119.6	59.8	39.9	23.9	12.0	0.0	0.0	0.0	0.0	0.0
37.5°	207.3	127.6	59.8	39.9	23.9	8.0	0.0	0.0	0.0	0.0	0.0
40°	215.3	119.6	63.8	39.9	23.9	8.0	0.0	0.0	0.0	0.0	0.0
42.5°	247.2	111.6	67.8	39.9	23.9	8.0	0.0	0.0	0.0	0.0	0.0
45°	366.8	115.6	67.8	43.9	23.9	12.0	0.0	0.0	0.0	0.0	0.0
47.5°	637.9	119.6	63.8	43.9	23.9	12.0	0.0	0.0	0.0	0.0	0.0
50°	817.3	139.5	63.8	47.8	27.9	8.0	0.0	0.0	0.0	0.0	0.0
52.5°	869.2	163.5	63.8	51.8	35.9	4.0	0.0	0.0	0.0	0.0	0.0
55°	845.2	191.4	67.8	55.8	43.9	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	781.4	207.3	71.8	59.8	47.8	0.0	0.0	0.0	0.0	0.0	0.0
59°	713.7	219.3	83.7	63.8	47.8	0.0	0.0	0.0	0.0	0.0	0.0
60°	657.8	231.2	87.7	67.8	47.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	530.3	247.2	95.7	79.7	39.9	0.0	0.0	0.0	0.0	0.0	0.0
65°	462.5	259.2	99.7	87.7	35.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	422.6	267.1	107.6	91.7	31.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	390.7	263.1	115.6	87.7	27.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	354.8	251.2	139.5	79.7	23.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	319.0	227.3	151.5	71.8	15.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	231.2	191.4	139.5	63.8	8.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	99.7	103.7	99.7	47.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	19.9	23.9	19.9	12.0	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°	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9
2.5°	19.9	19.9	19.9	19.9	23.9	23.9	31.9	39.9	47.8	51.8	51.8
5°	15.9	15.9	15.9	15.9	15.9	19.9	23.9	31.9	43.9	47.8	47.8
7.5°	12.0	12.0	12.0	12.0	12.0	12.0	19.9	27.9	39.9	43.9	47.8
10°	12.0	8.0	8.0	4.0	4.0	8.0	12.0	23.9	35.9	39.9	43.9
12.5°	8.0	4.0	4.0	0.0	0.0	4.0	8.0	19.9	31.9	35.9	39.9
15°	4.0	0.0	0.0	0.0	0.0	0.0	4.0	15.9	27.9	31.9	39.9
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	23.9	31.9	35.9
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	19.9	27.9	31.9
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	15.9	23.9	27.9
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	15.9	19.9
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	12.0	15.9
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	12.0	15.9
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	8.0	12.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	8.0	12.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	8.0	8.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	8.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	8.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	8.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	8.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	8.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	8.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	8.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.0
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°	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9
2.5°	55.8	55.8	51.8	47.8	47.8	47.8	51.8	55.8	55.8	55.8
5°	51.8	51.8	47.8	47.8	47.8	47.8	51.8	59.8	63.8	63.8
7.5°	51.8	51.8	47.8	47.8	47.8	47.8	51.8	59.8	63.8	67.8
10°	47.8	47.8	47.8	47.8	43.9	47.8	51.8	59.8	71.8	71.8
12.5°	47.8	47.8	47.8	47.8	43.9	47.8	55.8	63.8	75.8	79.7
15°	47.8	47.8	47.8	43.9	43.9	47.8	55.8	67.8	79.7	87.7
17.5°	43.9	47.8	47.8	43.9	43.9	47.8	55.8	67.8	87.7	99.7
20°	39.9	43.9	47.8	43.9	43.9	43.9	55.8	67.8	91.7	107.6
22.5°	35.9	39.9	43.9	43.9	39.9	43.9	55.8	71.8	99.7	119.6
25°	31.9	35.9	35.9	39.9	39.9	43.9	55.8	71.8	103.7	135.6
27.5°	23.9	27.9	31.9	35.9	35.9	43.9	55.8	75.8	111.6	167.5
30°	19.9	23.9	27.9	31.9	35.9	43.9	55.8	75.8	119.6	211.3
32.5°	19.9	23.9	27.9	31.9	35.9	39.9	55.8	79.7	131.6	263.1
35°	15.9	19.9	23.9	31.9	31.9	39.9	55.8	79.7	143.5	342.9
37.5°	15.9	19.9	23.9	31.9	31.9	39.9	55.8	79.7	175.4	382.7
40°	12.0	15.9	19.9	31.9	31.9	39.9	59.8	83.7	179.4	386.7
42.5°	12.0	15.9	19.9	27.9	31.9	39.9	59.8	83.7	167.5	398.7
45°	12.0	15.9	19.9	31.9	35.9	43.9	59.8	87.7	163.5	454.5
47.5°	12.0	15.9	19.9	31.9	39.9	43.9	59.8	87.7	167.5	649.9
50°	12.0	15.9	19.9	31.9	43.9	43.9	59.8	87.7	183.4	1044.6
52.5°	8.0	12.0	15.9	27.9	35.9	47.8	63.8	83.7	195.4	1395.4
55°	8.0	8.0	12.0	23.9	31.9	51.8	67.8	83.7	227.3	1483.1
57.5°	8.0	8.0	12.0	19.9	27.9	55.8	71.8	83.7	263.1	1439.3
59°	8.0	8.0	8.0	19.9	23.9	55.8	71.8	87.7	267.1	1363.5
60°	8.0	8.0	8.0	15.9	23.9	55.8	75.8	91.7	271.1	1275.8
62.5°	4.0	4.0	4.0	15.9	19.9	55.8	83.7	111.6	279.1	984.8
65°	8.0	8.0	4.0	12.0	19.9	47.8	95.7	119.6	283.1	765.5
67.5°	8.0	8.0	8.0	15.9	19.9	47.8	99.7	123.6	283.1	606.0
70°	8.0	8.0	8.0	15.9	23.9	47.8	99.7	127.6	279.1	494.4
72.5°	8.0	8.0	8.0	15.9	23.9	43.9	91.7	131.6	267.1	418.6
75°	8.0	8.0	8.0	12.0	19.9	39.9	87.7	143.5	243.2	354.8
77.5°	8.0	8.0	8.0	8.0	15.9	31.9	79.7	159.5	215.3	287.1
80°	12.0	8.0	8.0	8.0	12.0	27.9	75.8	155.5	179.4	187.4
82.5°	12.0	8.0	8.0	4.0	8.0	19.9	59.8	119.6	91.7	83.7
85°	8.0	8.0	8.0	4.0	4.0	12.0	27.9	35.9	27.9	19.9
87.5°	8.0	8.0	8.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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: SP1-2407-184-3

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-727-U-5WQ

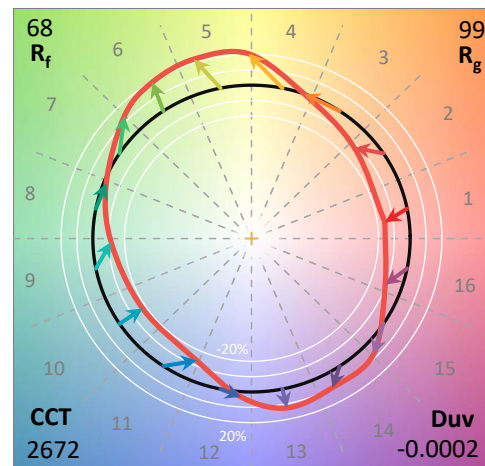
Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-3
 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-727-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K):	2672	CRI (Ra):	71.1		
CIE u':	0.2638	R1:	68.3	R9:	-27.8
CIE v':	0.5276	R2:	79.8	R10:	54.4
Duv:	-0.0002	R3:	91.2	R11:	65.8
CIE x:	0.4619	R4:	69.4	R12:	45.6
CIE y:	0.4106	R5:	66.5	R13:	69.8
CIE z:	0.1275	R6:	72.6	R14:	94.5
Peak Wavelength (nm):	601	R7:	77.0	R15:	60.1
Dominant Wavelength (nm):	584	R8:	44.1		
Purity:	61.88407				
Rf:	67.9				
Rg:	98.6				



Test Conditions

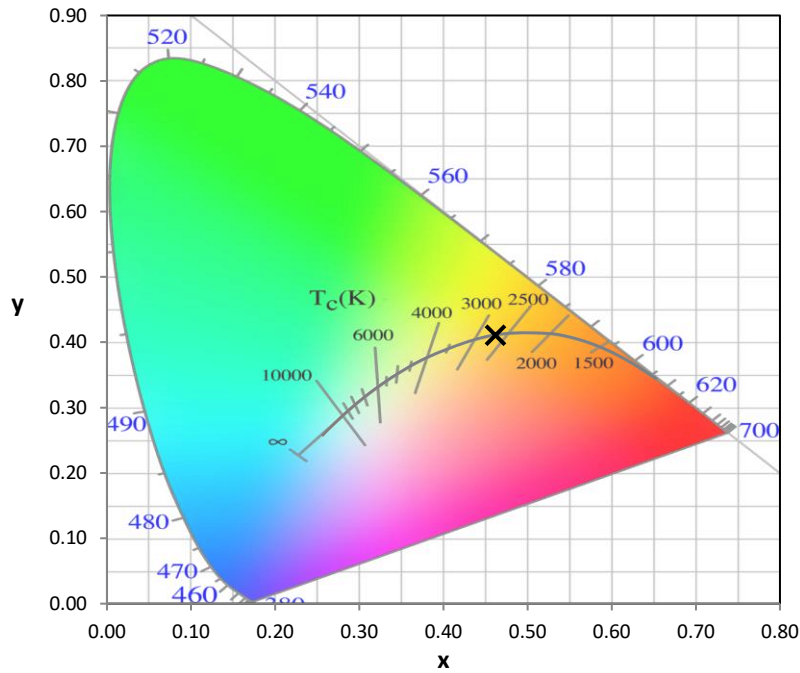
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-3

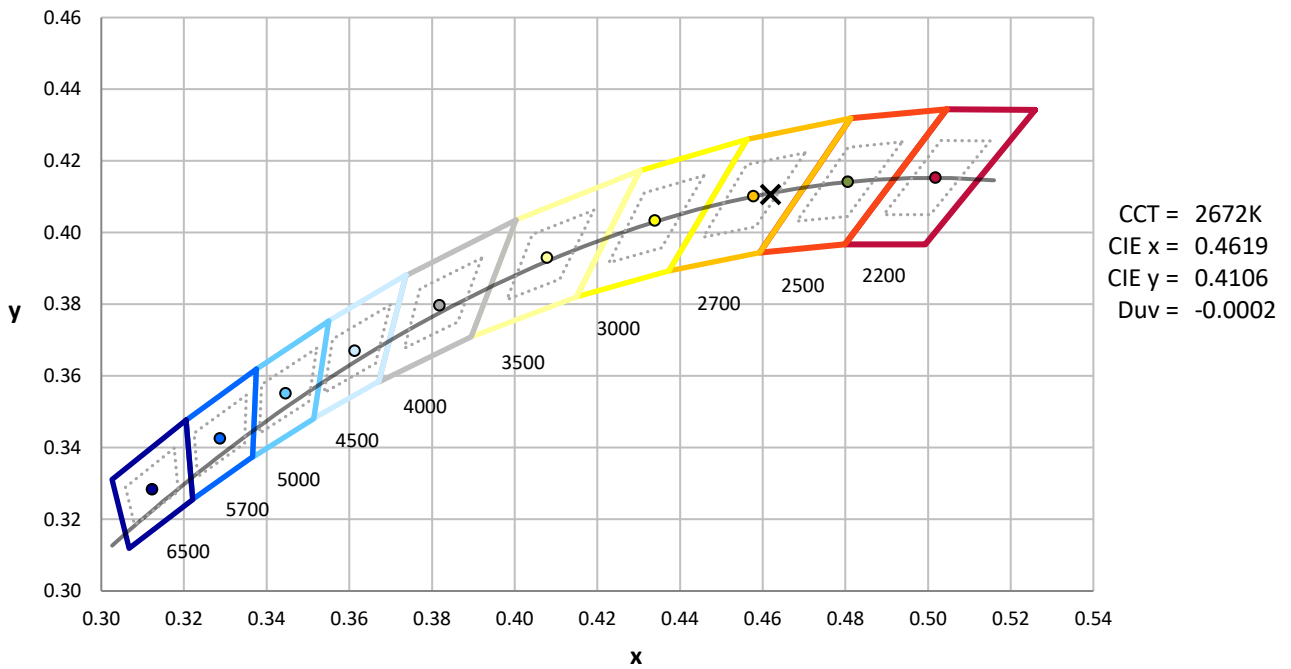
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



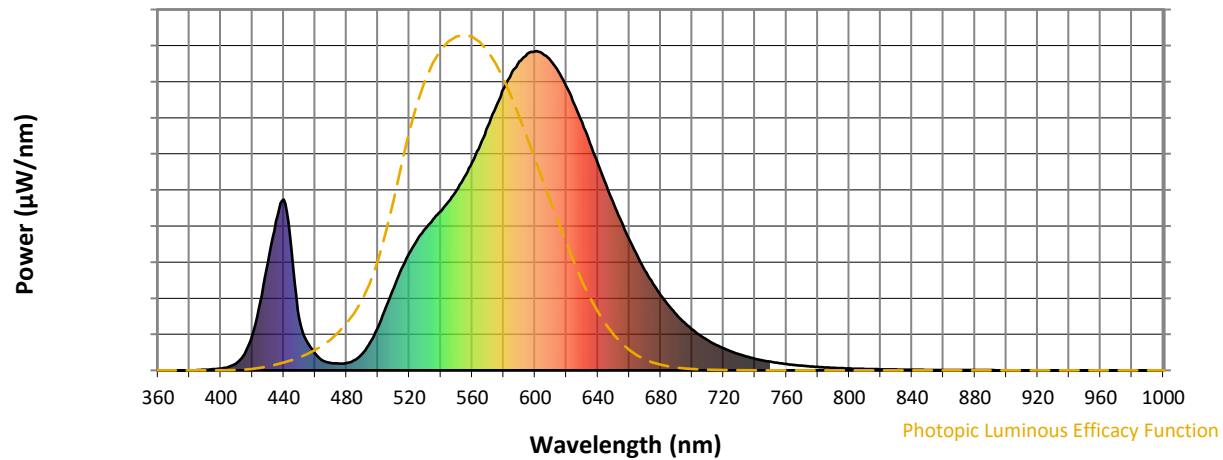
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-3

Photopic Flux vs. Wavelength

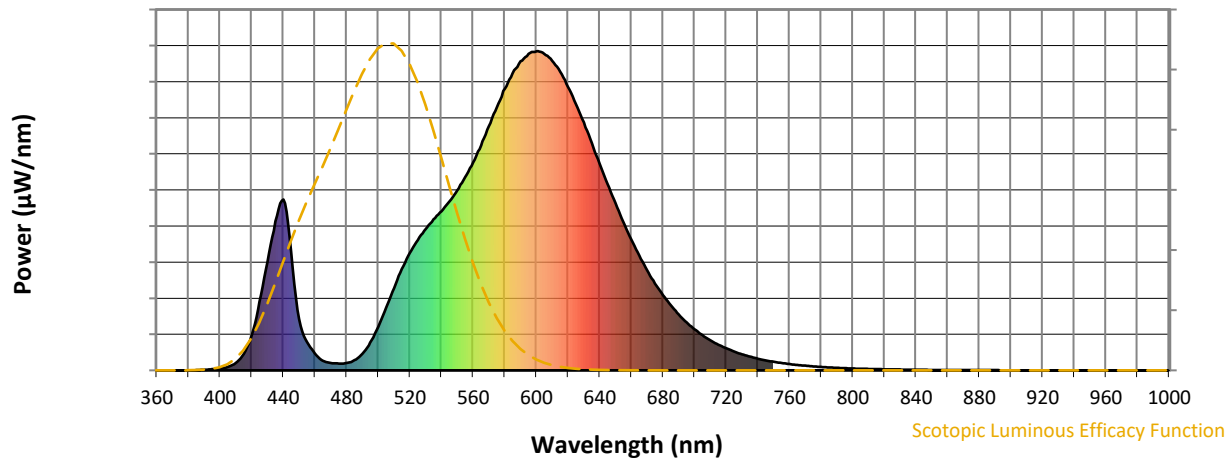


Photopic Lumens: NR

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Scotopic Flux vs. Wavelength



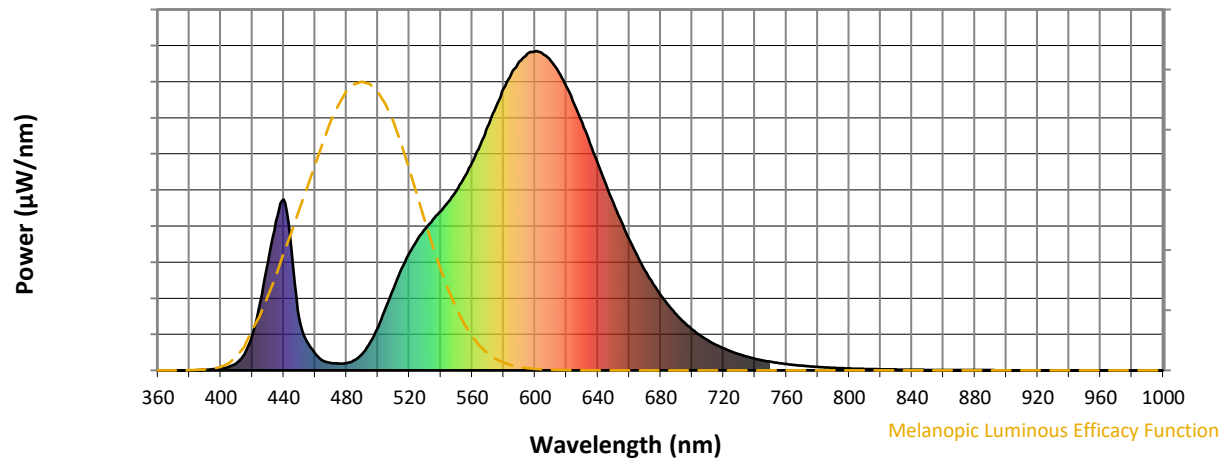
Scotopic Lumens: NR

S/P: 1.02

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.71

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

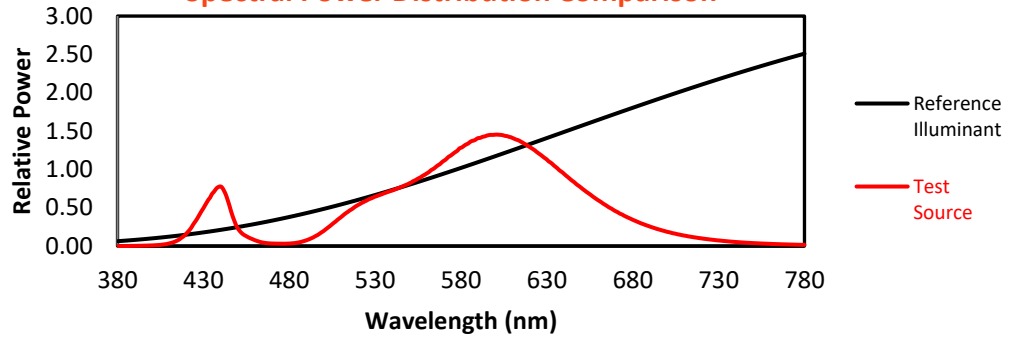
REPORT NUMBER: SP1-2407-184-3

TM-30-18

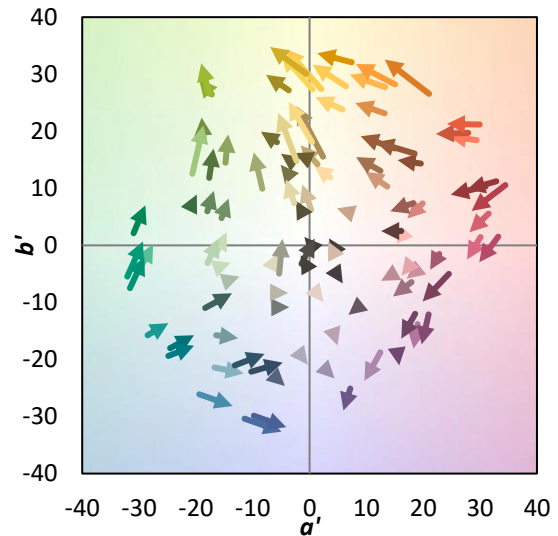
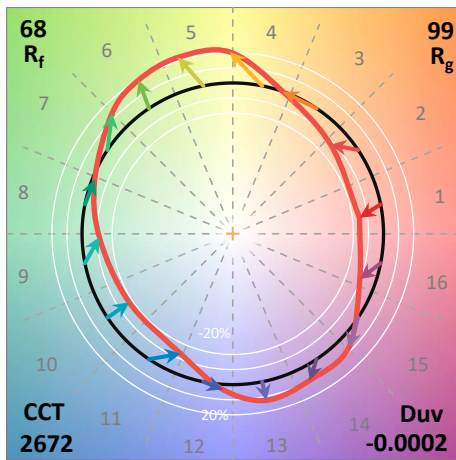
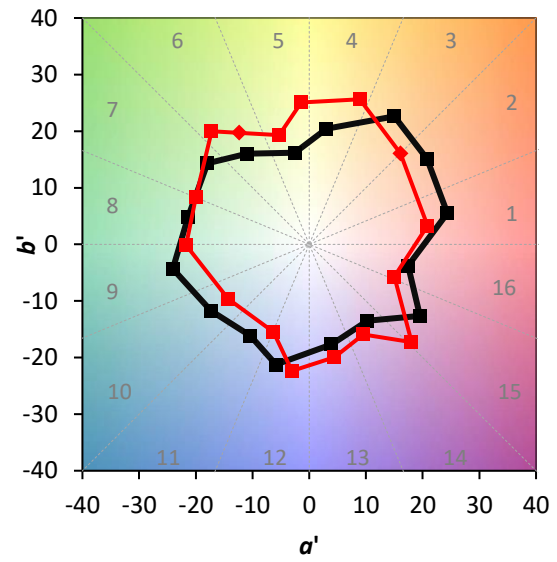
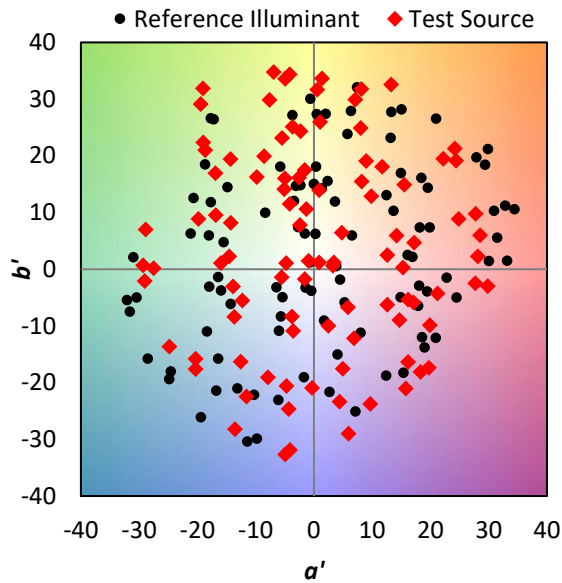
Summary

$R_f = 67.9$
 $R_g = 98.6$
 $CIE R_a = 71.1$
 $R_g = -27.8$

Spectral Power Distribution Comparison

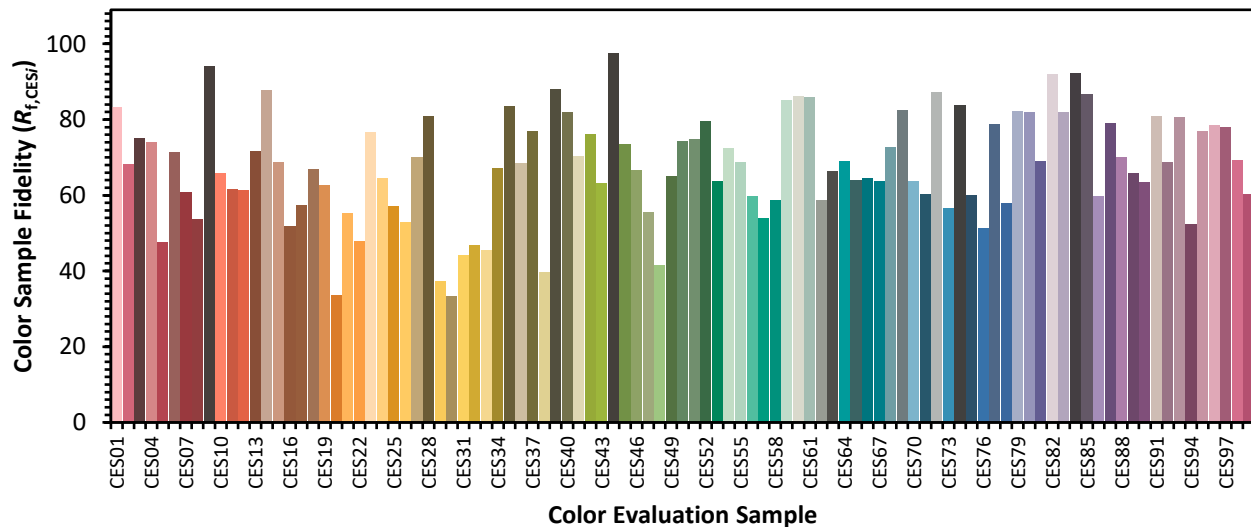


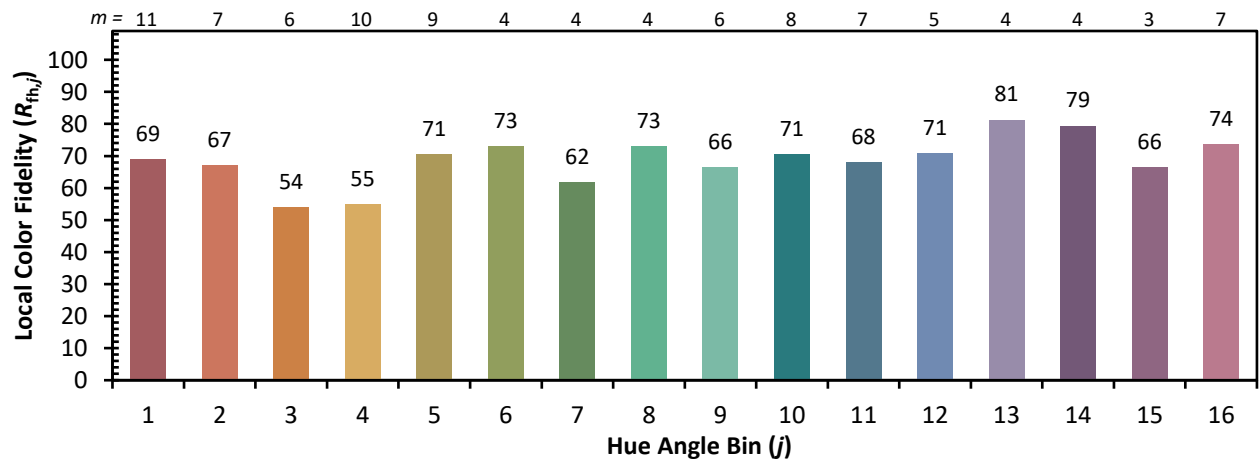
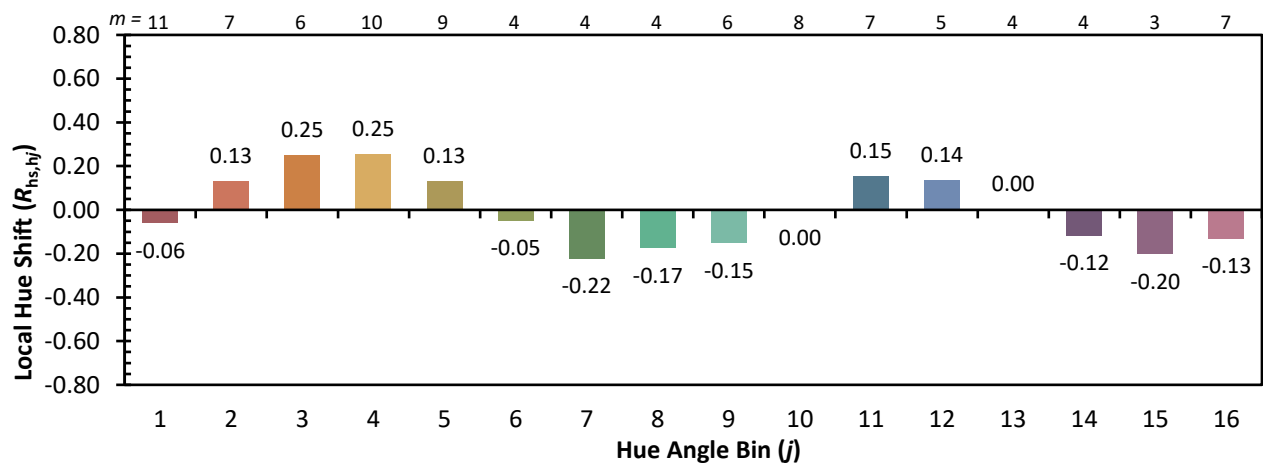
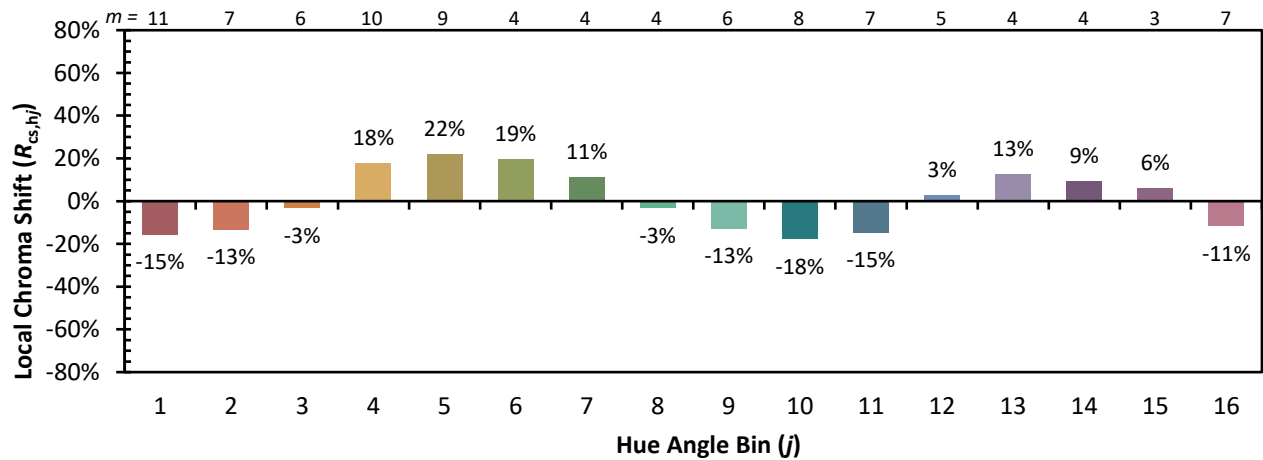
Color Vector Graphics



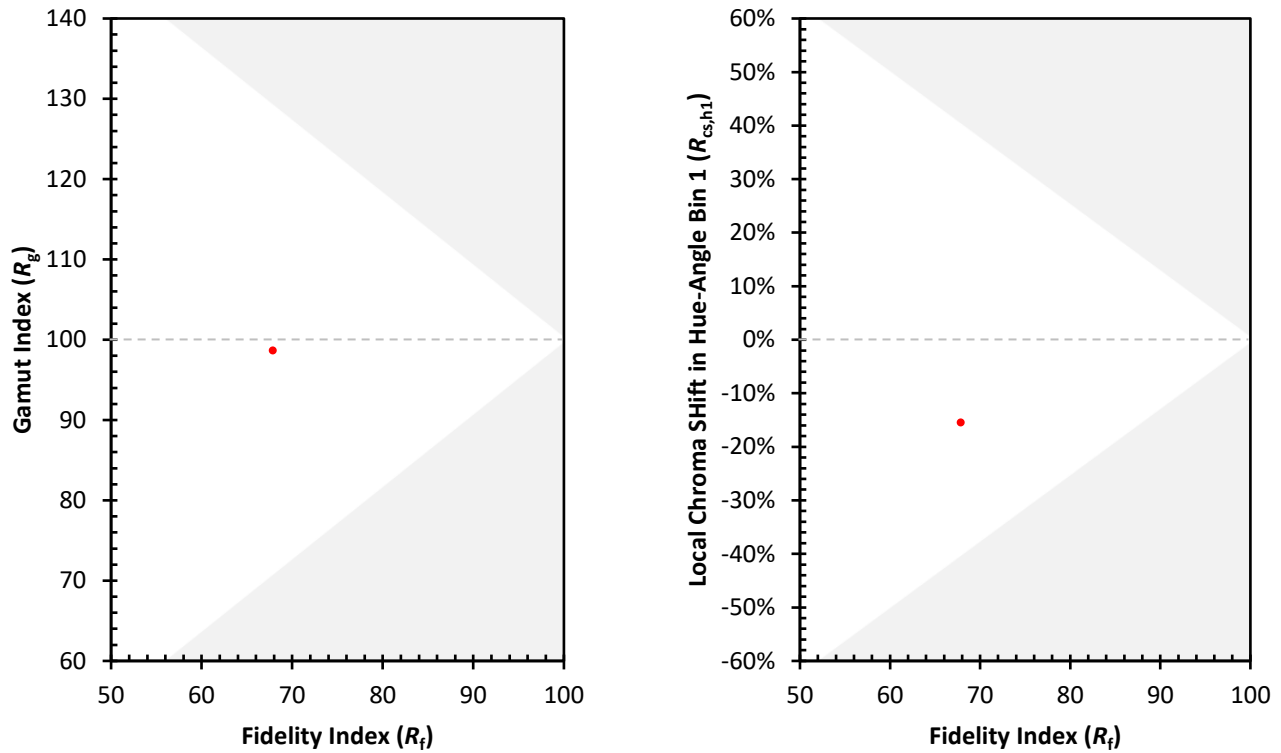
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 53	CES51 = 75	CES76 = 51
CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 54	CES82 = 92
CES08 = 41	CES33 = 45	CES58 = 59	CES83 = 82
CES09 = 29	CES34 = 67	CES59 = 85	CES84 = 92
CES10 = 77	CES35 = 84	CES60 = 86	CES85 = 87
CES11 = 60	CES36 = 68	CES61 = 86	CES86 = 60
CES12 = 66	CES37 = 77	CES62 = 59	CES87 = 79
CES13 = 44	CES38 = 40	CES63 = 66	CES88 = 70
CES14 = 74	CES39 = 88	CES64 = 69	CES89 = 66
CES15 = 72	CES40 = 82	CES65 = 64	CES90 = 64
CES16 = 48	CES41 = 70	CES66 = 65	CES91 = 81
CES17 = 51	CES42 = 76	CES67 = 64	CES92 = 69
CES18 = 57	CES43 = 63	CES68 = 73	CES93 = 81
CES19 = 73	CES44 = 97	CES69 = 83	CES94 = 53
CES20 = 67	CES45 = 74	CES70 = 64	CES95 = 77
CES21 = 88	CES46 = 67	CES71 = 60	CES96 = 79
CES22 = 80	CES47 = 55	CES72 = 87	CES97 = 78
CES23 = 92	CES48 = 42	CES73 = 57	CES98 = 69
CES24 = 92	CES49 = 65	CES74 = 84	CES99 = 60
CES25 = 73	CES50 = 74	CES75 = 60	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)