

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: P1067915

Luminaire Tested: **NAV-SA6C-722-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067915
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA6C-722-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 6xLight Square PACKAGE
70CRI 2200K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21040.5 lumens
Efficiency: N/A
Efficacy: 75.4 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): 279.1
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



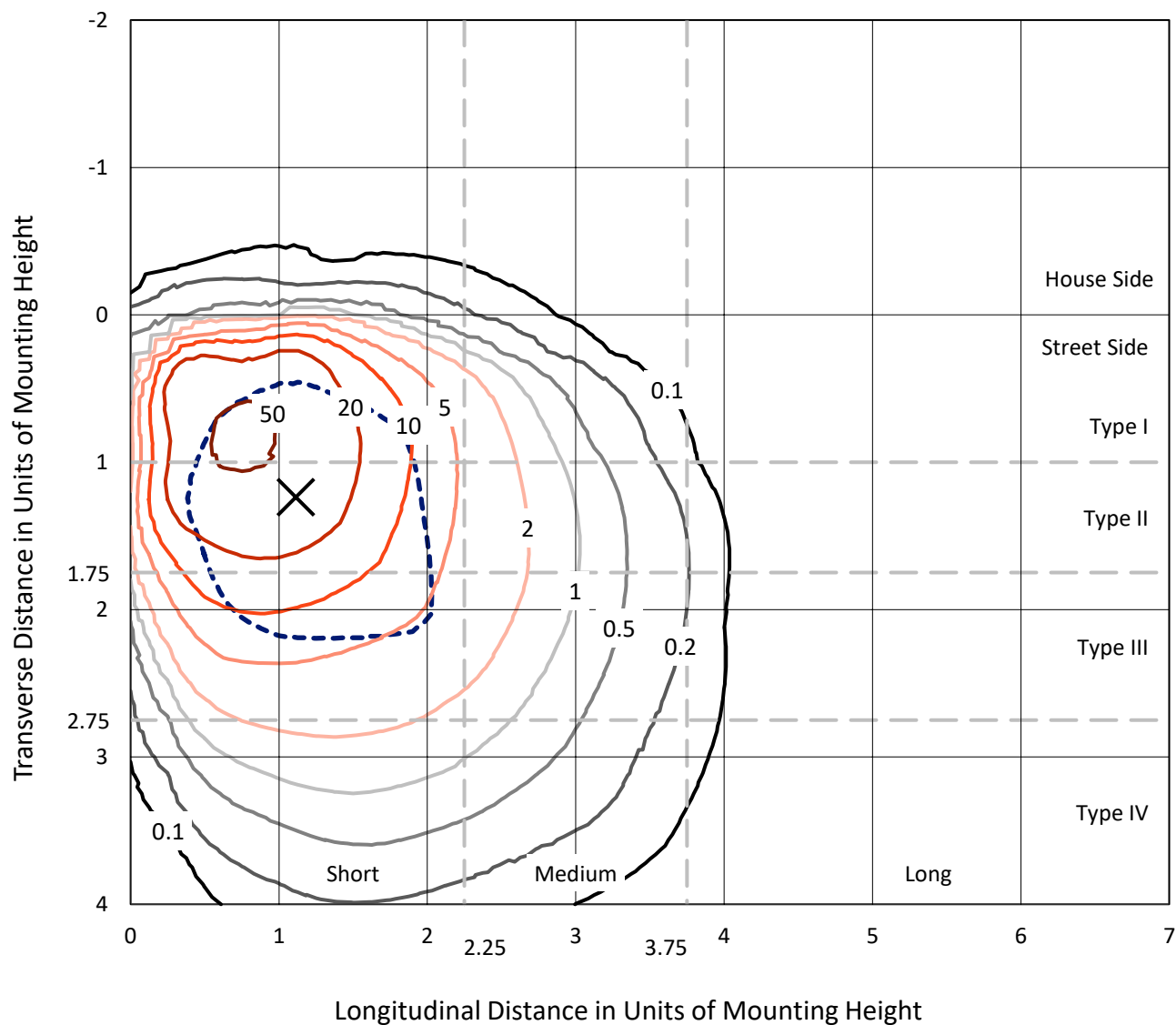
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

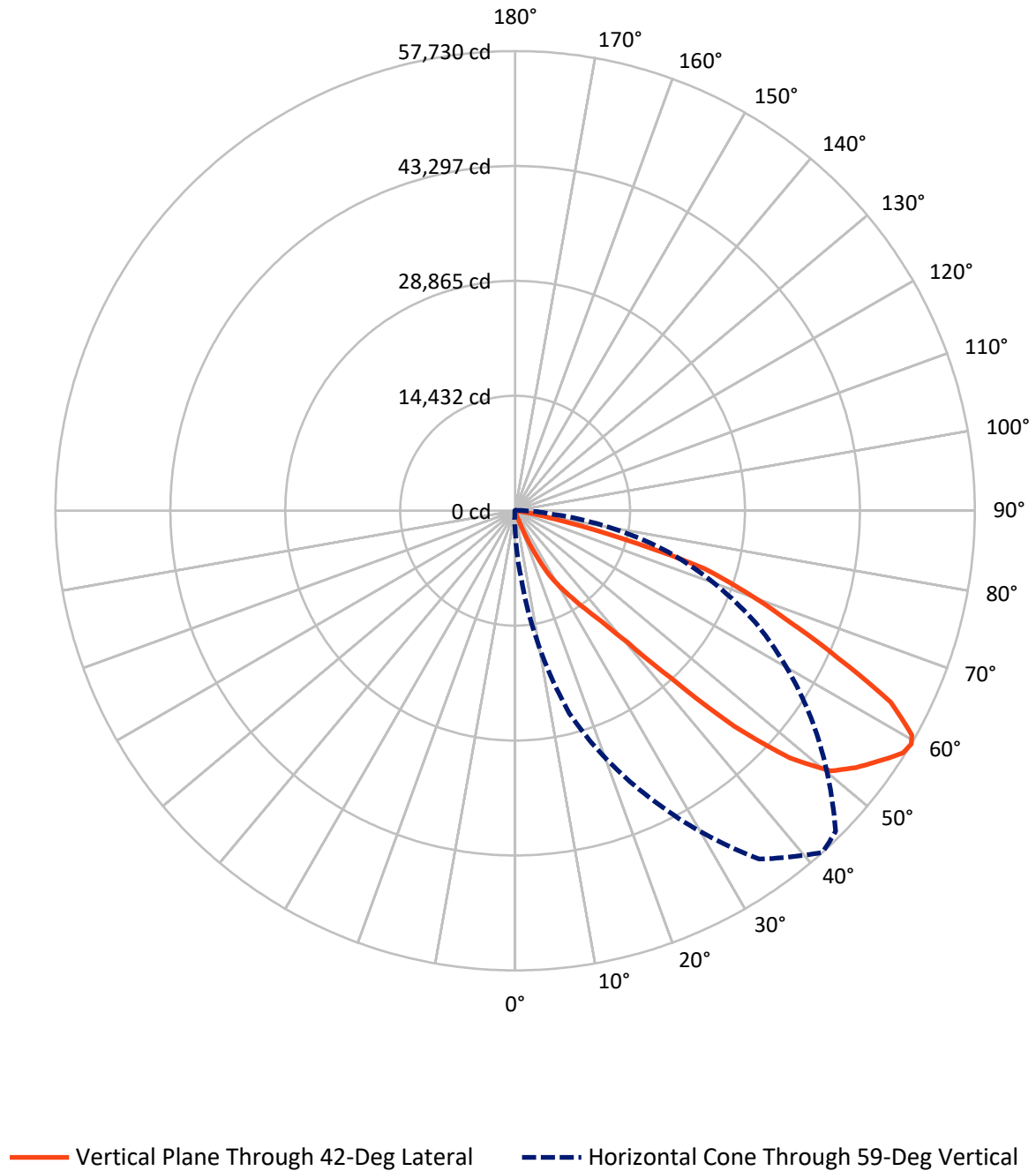


Based on 15 foot mounting height. Maximum calculated value = 62.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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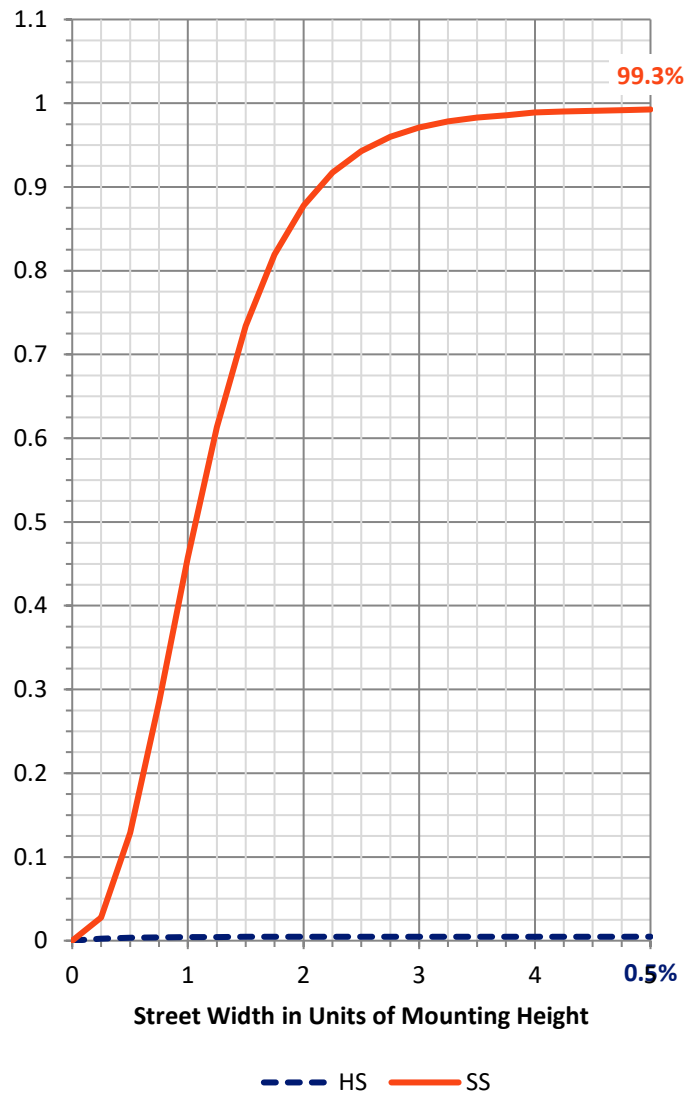
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	101.4	0.0	101.4
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	20939.1	0.0	20939.1
	% Fixture	99.5	0.0	99.5
Total	Lumens	21040.5	0.0	21040.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	0.0
10°-20°	30.7	0.1
20°-30°	392.5	1.9
30°-40°	1323.2	6.3
40°-50°	3996.6	19.0
50°-60°	7054.9	33.5
60°-70°	6212.0	29.5
70°-80°	1977.3	9.4
80°-90°	47.3	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°	21040.5	100.0
0°-180°	21040.5	100.0



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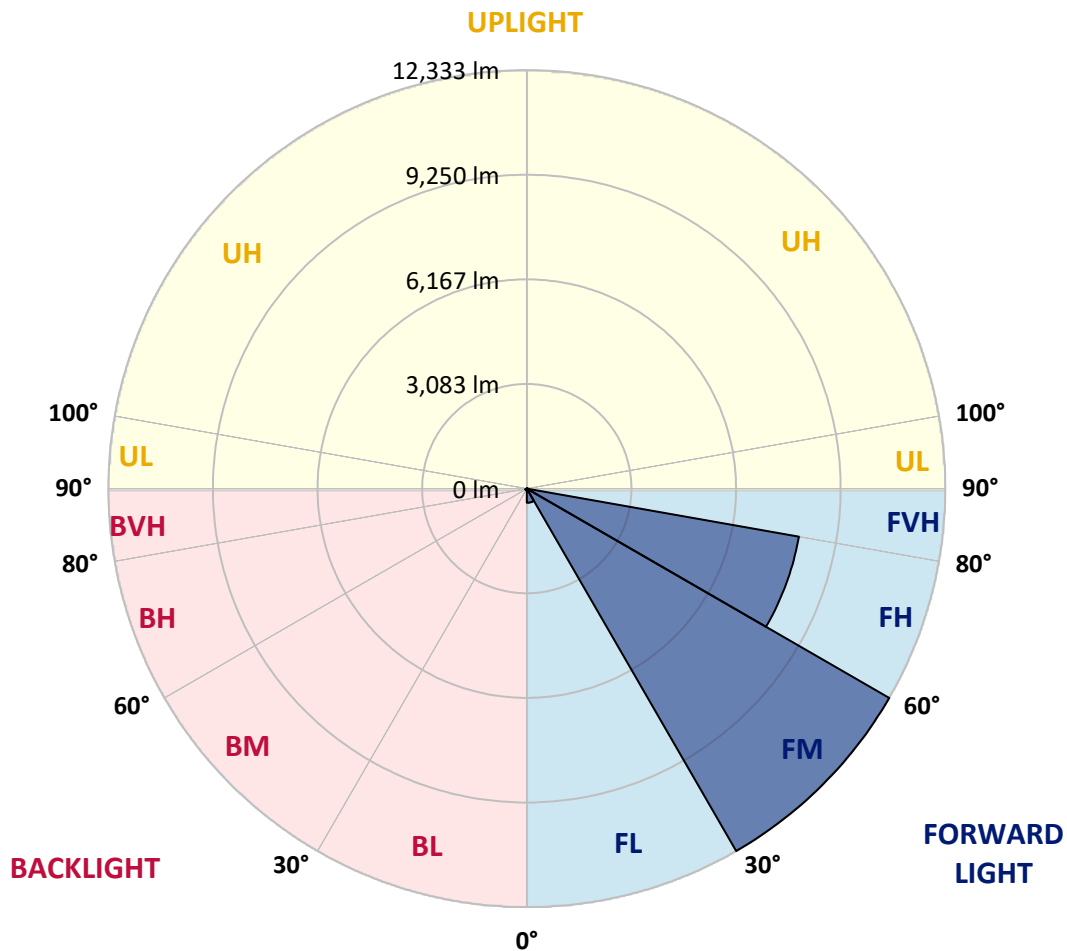
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	418.0	2.0			
FM	(30°-60°)	12333.2	58.6			
FH	(60°-80°)	8142.9	38.7			G4/12000
FVH	(80°-90°)	45.0	0.2			G1/100
BL	(0°-30°)	11.3	0.1	B0/110		
BM	(30°-60°)	41.4	0.2	B0/220		
BH	(60°-80°)	46.4	0.2	B0/110		G0/110
BVH	(80°-90°)	2.3	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°	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
2.5°	92.4	92.4	85.8	79.2	72.6	66.0	66.0	66.0	59.4	59.4	52.8
5°	105.6	105.6	99.0	92.4	92.4	85.8	85.8	79.2	72.6	72.6	66.0
7.5°	112.1	112.1	112.1	112.1	105.6	105.6	105.6	99.0	92.4	85.8	79.2
10°	118.7	125.3	131.9	131.9	131.9	131.9	131.9	125.3	112.1	105.6	92.4
12.5°	131.9	138.5	151.7	164.9	164.9	171.5	164.9	158.3	145.1	125.3	105.6
15°	145.1	158.3	178.1	204.5	230.9	237.5	237.5	217.7	191.3	151.7	125.3
17.5°	164.9	184.7	237.5	323.2	415.6	488.2	488.2	435.4	303.5	197.9	145.1
20°	178.1	217.7	382.6	778.4	1187.4	1490.9	1431.5	1266.6	679.5	310.1	158.3
22.5°	197.9	277.1	811.4	2045.0	3166.5	3720.7	3588.7	2724.5	1523.9	554.1	191.3
25°	224.3	402.4	1609.6	3832.8	5884.4	6484.8	6399.0	5086.2	2777.3	930.2	244.1
27.5°	277.1	593.7	2579.4	5811.9	8681.5	9196.1	9163.1	7447.9	4439.7	1497.5	316.7
30°	349.6	864.2	3826.2	7896.5	10535.2	11056.4	10891.5	9176.3	5990.0	2289.1	409.0
32.5°	435.4	1207.2	4954.3	9433.6	12243.8	12929.9	12732.0	10680.4	7236.8	2962.0	606.9
35°	567.3	1543.7	6069.1	10792.5	14216.3	15087.1	14757.3	12230.7	8312.1	3720.7	732.3
37.5°	633.3	1741.6	7091.7	12270.2	16432.9	17620.3	17369.6	14189.9	9407.2	4690.4	897.2
40°	639.9	1979.1	8153.8	14196.5	19566.4	21684.0	21235.4	17554.4	11445.6	5937.2	1154.5
42.5°	659.7	2335.3	9532.5	17481.8	25721.3	28762.5	28254.5	23742.2	16070.0	8437.4	1636.0
45°	752.0	3008.2	12342.8	23623.5	34171.9	38631.4	38044.3	32364.4	22528.4	13141.0	2790.5
47.5°	1075.3	4525.5	17270.7	30253.4	42813.9	46369.6	46224.5	39159.2	28379.9	17963.4	4730.0
50°	1728.4	6946.5	22878.1	35827.8	48315.7	51370.1	51007.2	41995.9	31717.9	21255.2	6062.6
52.5°	2308.9	9262.0	26400.8	37879.4	49958.3	53599.8	53157.8	43031.6	32595.3	22225.0	6432.0
55°	2454.0	10099.9	27449.7	38512.7	51046.8	55486.5	54846.6	43724.3	32707.4	21532.3	5818.5
57.5°	2381.5	9308.2	26770.2	39132.8	52564.1	57426.0	56575.0	45076.6	33083.5	20358.0	4842.1
59°	2256.1	8331.9	26348.0	39627.6	53401.9	57729.5	56931.3	45373.5	33334.1	19823.7	4248.4
60°	2111.0	7672.2	26018.2	39950.8	53349.1	57254.5	56429.9	45234.9	33433.1	19361.9	3964.7
62.5°	1629.4	6121.9	25543.2	39719.9	50017.7	52920.3	52452.0	41844.1	31981.8	17884.2	3126.9
65°	1266.6	4683.8	23801.6	35425.4	42563.2	44515.9	44370.8	35432.0	26915.4	15417.0	2256.1
67.5°	1002.7	3417.2	20127.1	28689.9	34244.5	37021.8	36916.3	28762.5	20430.6	11782.1	1622.8
70°	818.0	2434.3	13800.7	21631.2	27390.3	30886.7	30735.0	23148.5	15139.9	7474.3	1180.8
72.5°	692.7	1556.9	8371.5	16307.5	22858.3	24857.1	24415.1	18675.8	11010.2	4070.3	936.8
75°	587.1	956.6	4149.5	10165.8	13616.0	13602.8	13160.8	9888.8	5910.8	1992.3	745.4
77.5°	475.0	672.9	1629.4	2790.5	4294.6	5317.1	5231.3	3503.0	1768.0	580.5	461.8
80°	310.1	316.7	435.4	765.2	1180.8	1306.2	1484.3	1068.7	514.6	277.1	191.3
82.5°	138.5	151.7	197.9	250.7	250.7	230.9	204.5	151.7	112.1	92.4	46.2
85°	33.0	46.2	33.0	39.6	33.0	26.4	26.4	13.2	0.0	0.0	0.0
87.5°	6.6	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°	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
2.5°	52.8	52.8	52.8	46.2	46.2	46.2	39.6	39.6	39.6	33.0	33.0
5°	66.0	59.4	52.8	52.8	46.2	46.2	39.6	33.0	33.0	33.0	26.4
7.5°	72.6	66.0	59.4	52.8	46.2	39.6	39.6	33.0	26.4	26.4	26.4
10°	85.8	79.2	66.0	52.8	46.2	39.6	33.0	33.0	26.4	19.8	19.8
12.5°	99.0	85.8	72.6	59.4	46.2	39.6	33.0	33.0	26.4	19.8	13.2
15°	112.1	99.0	79.2	59.4	46.2	39.6	33.0	33.0	19.8	13.2	6.6
17.5°	125.3	105.6	79.2	66.0	46.2	39.6	33.0	26.4	13.2	6.6	0.0
20°	131.9	112.1	85.8	66.0	46.2	39.6	33.0	19.8	6.6	0.0	0.0
22.5°	145.1	125.3	92.4	66.0	46.2	33.0	19.8	6.6	0.0	0.0	0.0
25°	171.5	131.9	92.4	66.0	46.2	33.0	13.2	0.0	0.0	0.0	0.0
27.5°	191.3	145.1	92.4	66.0	46.2	26.4	6.6	0.0	0.0	0.0	0.0
30°	224.3	158.3	99.0	66.0	46.2	19.8	6.6	0.0	0.0	0.0	0.0
32.5°	277.1	171.5	99.0	66.0	39.6	19.8	0.0	0.0	0.0	0.0	0.0
35°	336.4	197.9	99.0	66.0	39.6	19.8	0.0	0.0	0.0	0.0	0.0
37.5°	343.0	211.1	99.0	66.0	39.6	13.2	0.0	0.0	0.0	0.0	0.0
40°	356.2	197.9	105.6	66.0	39.6	13.2	0.0	0.0	0.0	0.0	0.0
42.5°	409.0	184.7	112.1	66.0	39.6	13.2	0.0	0.0	0.0	0.0	0.0
45°	606.9	191.3	112.1	72.6	39.6	19.8	0.0	0.0	0.0	0.0	0.0
47.5°	1055.5	197.9	105.6	72.6	39.6	19.8	0.0	0.0	0.0	0.0	0.0
50°	1352.4	230.9	105.6	79.2	46.2	13.2	0.0	0.0	0.0	0.0	0.0
52.5°	1438.1	270.5	105.6	85.8	59.4	6.6	0.0	0.0	0.0	0.0	0.0
55°	1398.5	316.7	112.1	92.4	72.6	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1293.0	343.0	118.7	99.0	79.2	0.0	0.0	0.0	0.0	0.0	0.0
59°	1180.8	362.8	138.5	105.6	79.2	0.0	0.0	0.0	0.0	0.0	0.0
60°	1088.5	382.6	145.1	112.1	79.2	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	877.4	409.0	158.3	131.9	66.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	765.2	428.8	164.9	145.1	59.4	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	699.3	442.0	178.1	151.7	52.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	646.5	435.4	191.3	145.1	46.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	587.1	415.6	230.9	131.9	39.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	527.8	376.0	250.7	118.7	26.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	382.6	316.7	230.9	105.6	13.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	164.9	171.5	164.9	79.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	33.0	39.6	33.0	19.8	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°	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
2.5°	33.0	33.0	33.0	33.0	39.6	39.6	52.8	66.0	79.2	85.8	85.8
5°	26.4	26.4	26.4	26.4	26.4	33.0	39.6	52.8	72.6	79.2	79.2
7.5°	19.8	19.8	19.8	19.8	19.8	19.8	33.0	46.2	66.0	72.6	79.2
10°	19.8	13.2	13.2	6.6	6.6	13.2	19.8	39.6	59.4	66.0	72.6
12.5°	13.2	6.6	6.6	0.0	0.0	6.6	13.2	33.0	52.8	59.4	66.0
15°	6.6	0.0	0.0	0.0	0.0	0.0	6.6	26.4	46.2	52.8	66.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.8	39.6	52.8	59.4
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2	33.0	46.2	52.8
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	26.4	39.6	46.2
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.8	26.4	33.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2	19.8	26.4
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2	19.8	26.4
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	13.2	19.8
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	13.2	19.8
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	13.2	13.2
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	13.2
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	13.2
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	13.2
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	13.2
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	13.2
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	6.6
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	6.6
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	6.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	13.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	13.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	6.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	6.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	6.6
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°	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
2.5°	92.4	92.4	85.8	79.2	79.2	79.2	85.8	92.4	92.4	92.4
5°	85.8	85.8	79.2	79.2	79.2	79.2	85.8	99.0	105.6	105.6
7.5°	85.8	85.8	79.2	79.2	79.2	79.2	85.8	99.0	105.6	112.1
10°	79.2	79.2	79.2	79.2	72.6	79.2	85.8	99.0	118.7	118.7
12.5°	79.2	79.2	79.2	79.2	72.6	79.2	92.4	105.6	125.3	131.9
15°	79.2	79.2	79.2	72.6	72.6	79.2	92.4	112.1	131.9	145.1
17.5°	72.6	79.2	79.2	72.6	72.6	79.2	92.4	112.1	145.1	164.9
20°	66.0	72.6	79.2	72.6	72.6	72.6	92.4	112.1	151.7	178.1
22.5°	59.4	66.0	72.6	72.6	66.0	72.6	92.4	118.7	164.9	197.9
25°	52.8	59.4	59.4	66.0	66.0	72.6	92.4	118.7	171.5	224.3
27.5°	39.6	46.2	52.8	59.4	59.4	72.6	92.4	125.3	184.7	277.1
30°	33.0	39.6	46.2	52.8	59.4	72.6	92.4	125.3	197.9	349.6
32.5°	33.0	39.6	46.2	52.8	59.4	66.0	92.4	131.9	217.7	435.4
35°	26.4	33.0	39.6	52.8	52.8	66.0	92.4	131.9	237.5	567.3
37.5°	26.4	33.0	39.6	52.8	52.8	66.0	92.4	131.9	290.3	633.3
40°	19.8	26.4	33.0	52.8	52.8	66.0	99.0	138.5	296.9	639.9
42.5°	19.8	26.4	33.0	46.2	52.8	66.0	99.0	138.5	277.1	659.7
45°	19.8	26.4	33.0	52.8	59.4	72.6	99.0	145.1	270.5	752.0
47.5°	19.8	26.4	33.0	52.8	66.0	72.6	99.0	145.1	277.1	1075.3
50°	19.8	26.4	33.0	52.8	72.6	72.6	99.0	145.1	303.5	1728.4
52.5°	13.2	19.8	26.4	46.2	59.4	79.2	105.6	138.5	323.2	2308.9
55°	13.2	13.2	19.8	39.6	52.8	85.8	112.1	138.5	376.0	2454.0
57.5°	13.2	13.2	19.8	33.0	46.2	92.4	118.7	138.5	435.4	2381.5
59°	13.2	13.2	13.2	33.0	39.6	92.4	118.7	145.1	442.0	2256.1
60°	13.2	13.2	13.2	26.4	39.6	92.4	125.3	151.7	448.6	2111.0
62.5°	6.6	6.6	6.6	26.4	33.0	92.4	138.5	184.7	461.8	1629.4
65°	13.2	13.2	6.6	19.8	33.0	79.2	158.3	197.9	468.4	1266.6
67.5°	13.2	13.2	13.2	26.4	33.0	79.2	164.9	204.5	468.4	1002.7
70°	13.2	13.2	13.2	26.4	39.6	79.2	164.9	211.1	461.8	818.0
72.5°	13.2	13.2	13.2	26.4	39.6	72.6	151.7	217.7	442.0	692.7
75°	13.2	13.2	13.2	19.8	33.0	66.0	145.1	237.5	402.4	587.1
77.5°	13.2	13.2	13.2	13.2	26.4	52.8	131.9	263.9	356.2	475.0
80°	19.8	13.2	13.2	13.2	19.8	46.2	125.3	257.3	296.9	310.1
82.5°	19.8	13.2	13.2	6.6	13.2	33.0	99.0	197.9	151.7	138.5
85°	13.2	13.2	13.2	6.6	6.6	19.8	46.2	59.4	46.2	33.0
87.5°	13.2	13.2	13.2	6.6	6.6	6.6	6.6	6.6	6.6	6.6
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: SP1-2407-184-2

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-722-U-5WQ

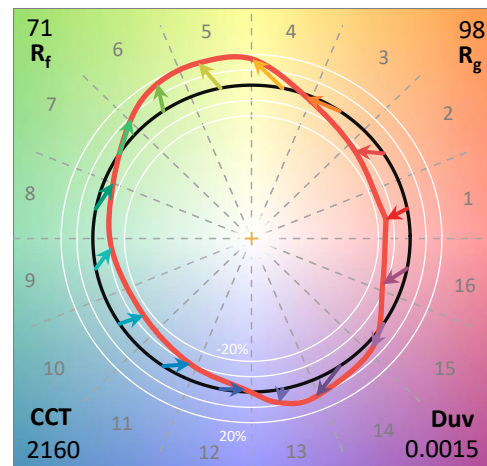
Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-2
 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-722-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2200K CCT 26 LEDS

Spectral Parameters

CCT (K):	2160	CRI (Ra):	71.9		
CIE u':	0.2927	R1:	68.7	R9:	-17.8
CIE v':	0.5388	R2:	82.6	R10:	60.5
Duv:	0.0015	R3:	95.5	R11:	60.2
CIE x:	0.5130	R4:	66.4	R12:	48.2
CIE y:	0.4197	R5:	65.4	R13:	70.7
CIE z:	0.0674	R6:	75.9	R14:	96.8
Peak Wavelength (nm):	609	R7:	77.2	R15:	61.8
Dominant Wavelength (nm):	587	R8:	43.5		
Purity:	79.96089				
Rf:	70.6				
Rg:	97.6				



Test Conditions

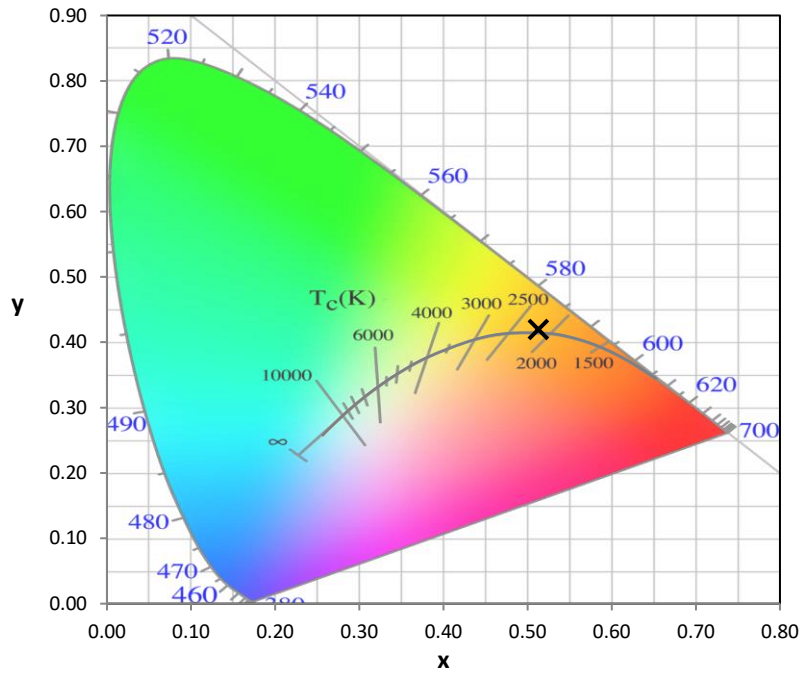
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-2

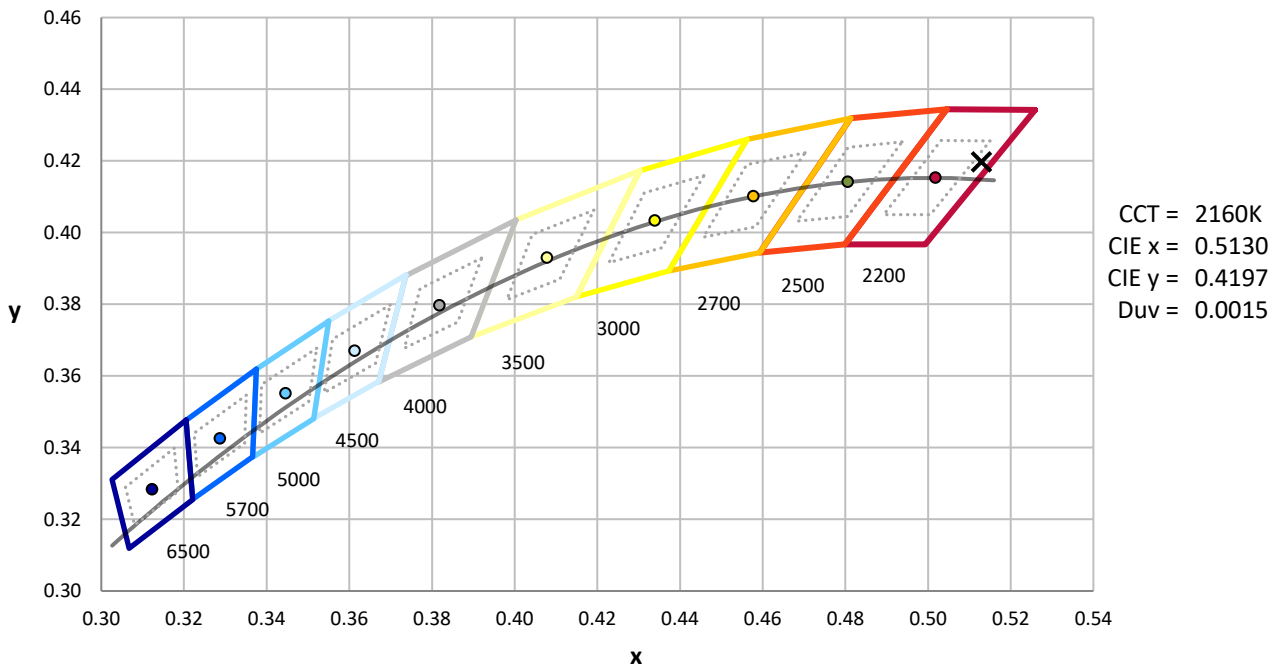
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



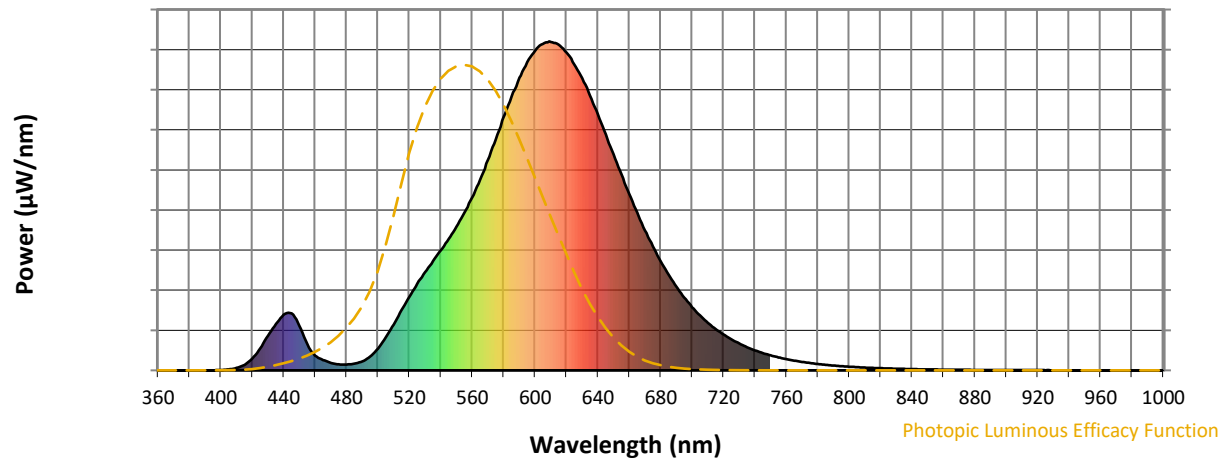
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

Photopic Flux vs. Wavelength

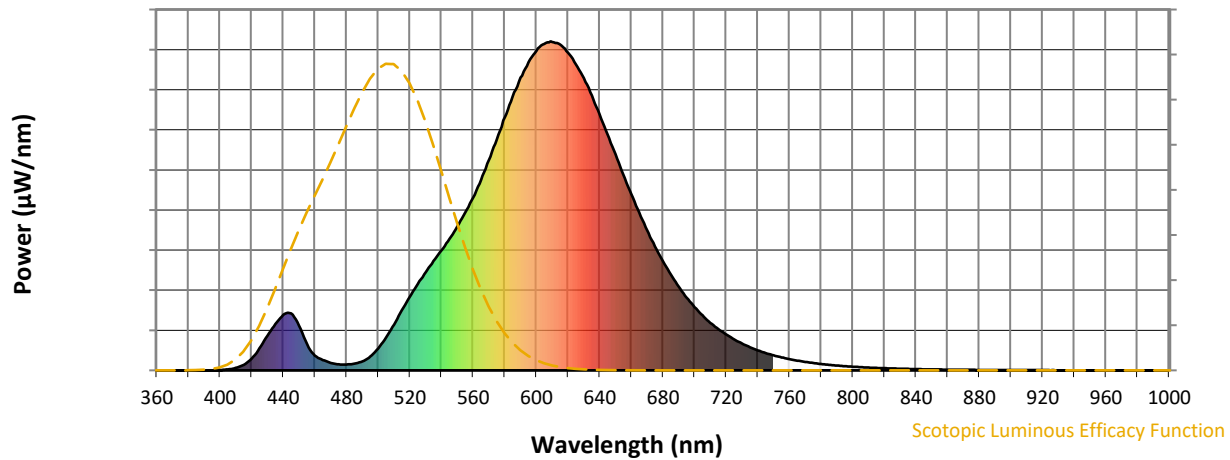


Photopic Lumens: NR

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

Scotopic Flux vs. Wavelength

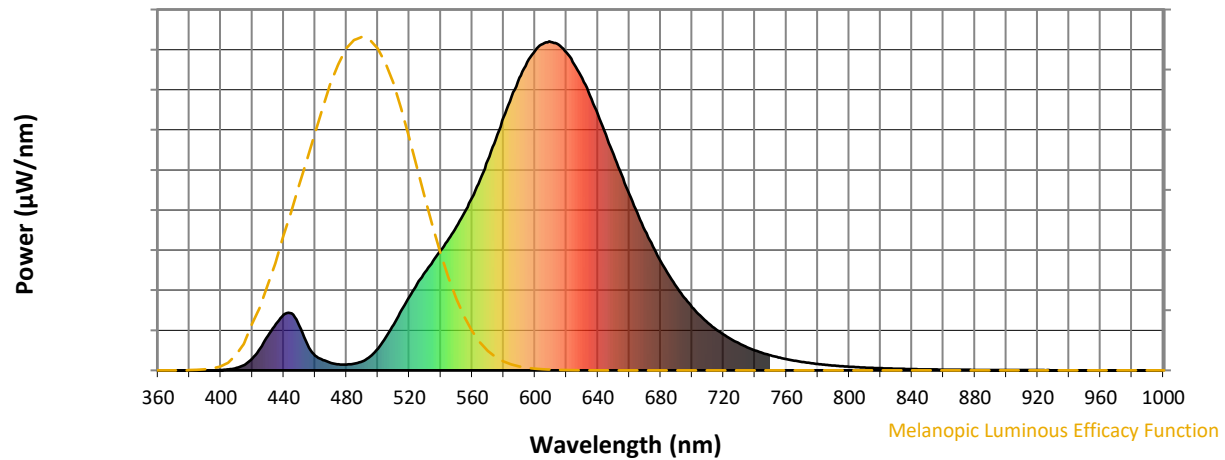


Scotopic Lumens: NR

S/P: 0.8

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

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Melanopic Flux vs. Wavelength

Melanopic Lumens: NR
M/P: 1.21

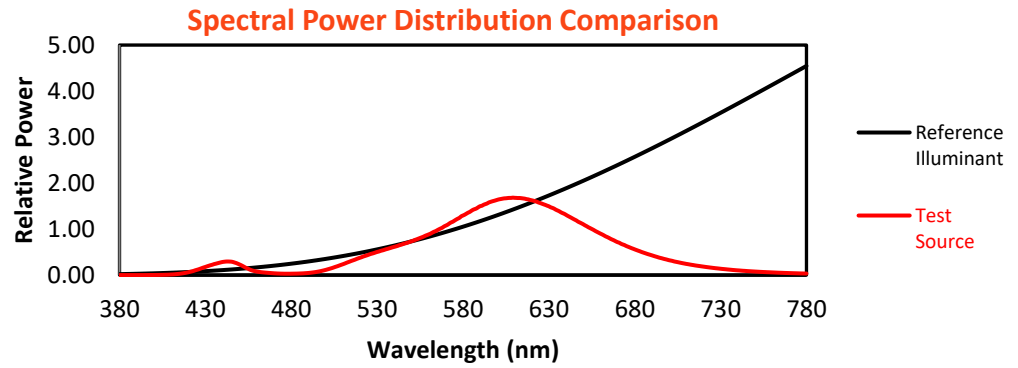
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

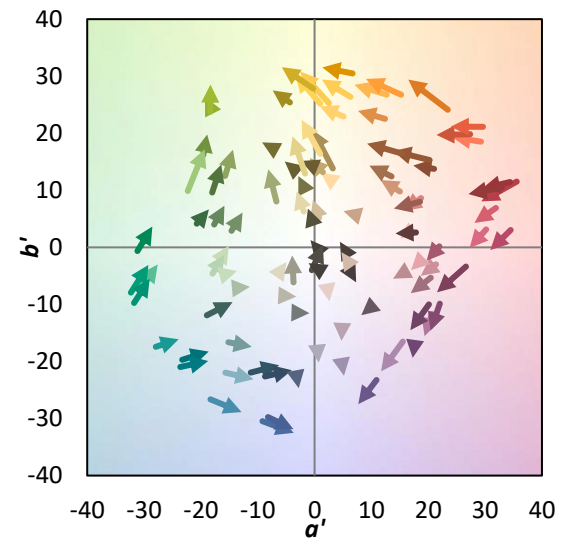
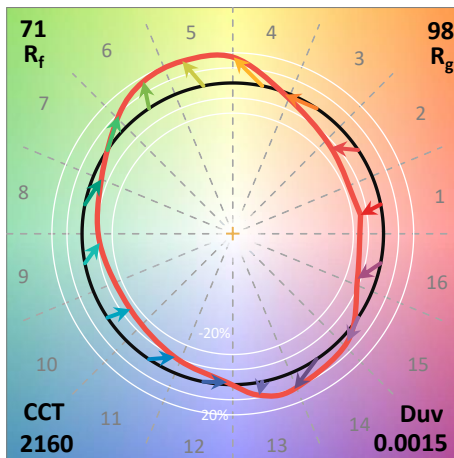
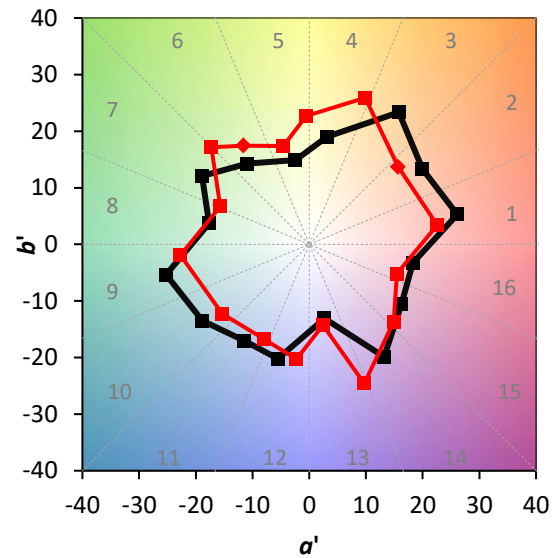
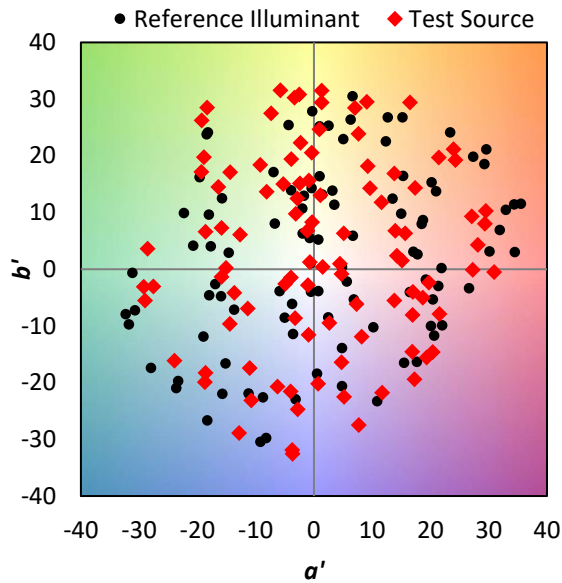
TM-30-18

Summary

$R_f = 70.6$
 $R_g = 97.6$
 $CIE R_a = 71.9$
 $R_g = -17.8$

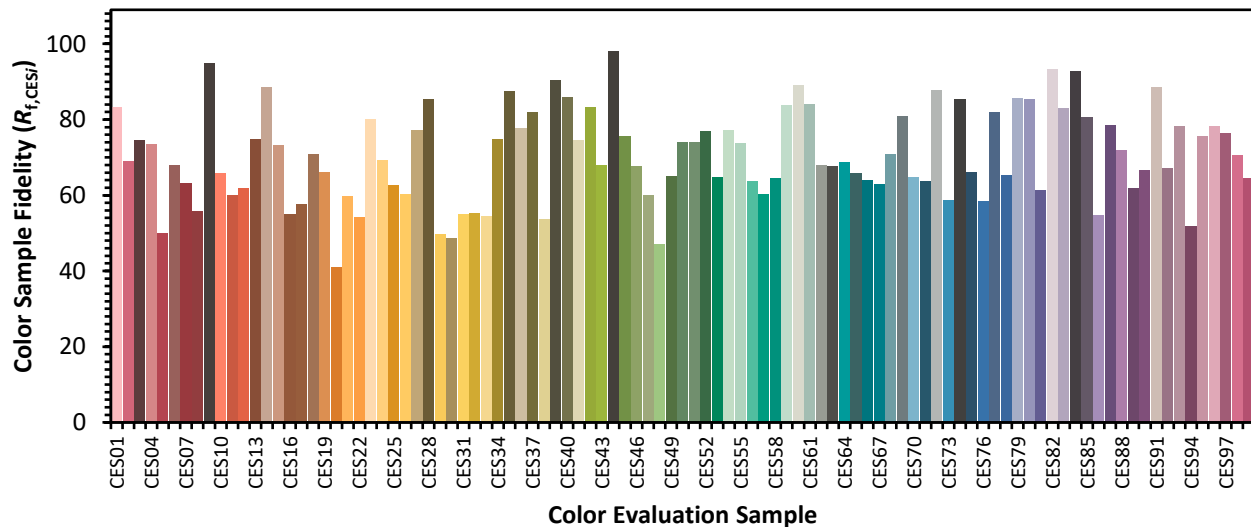


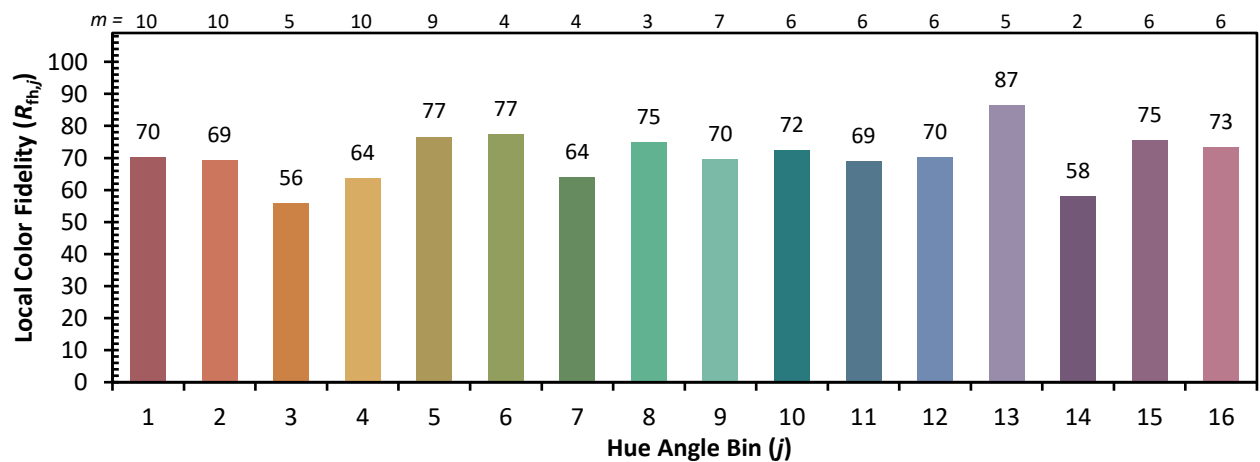
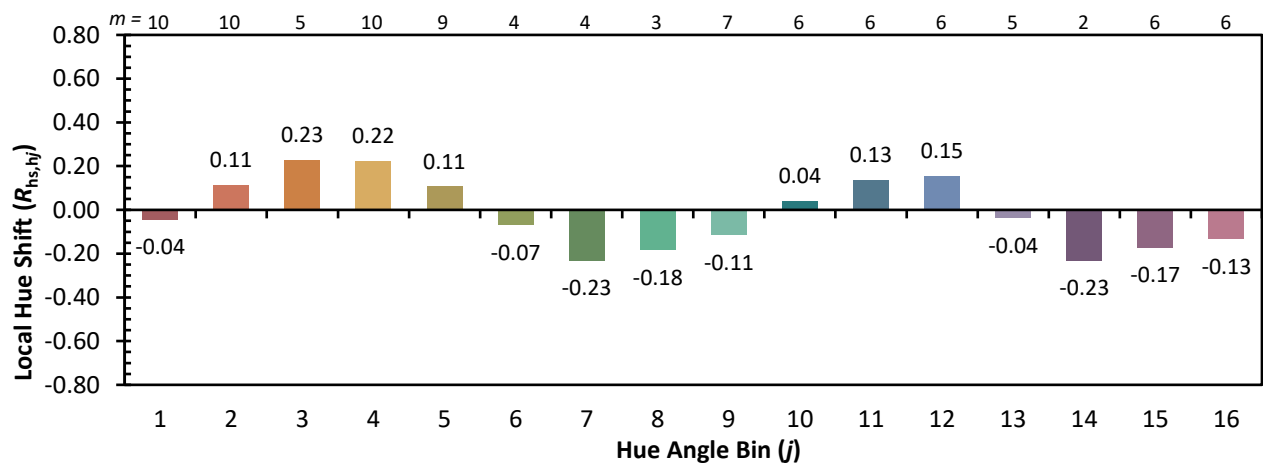
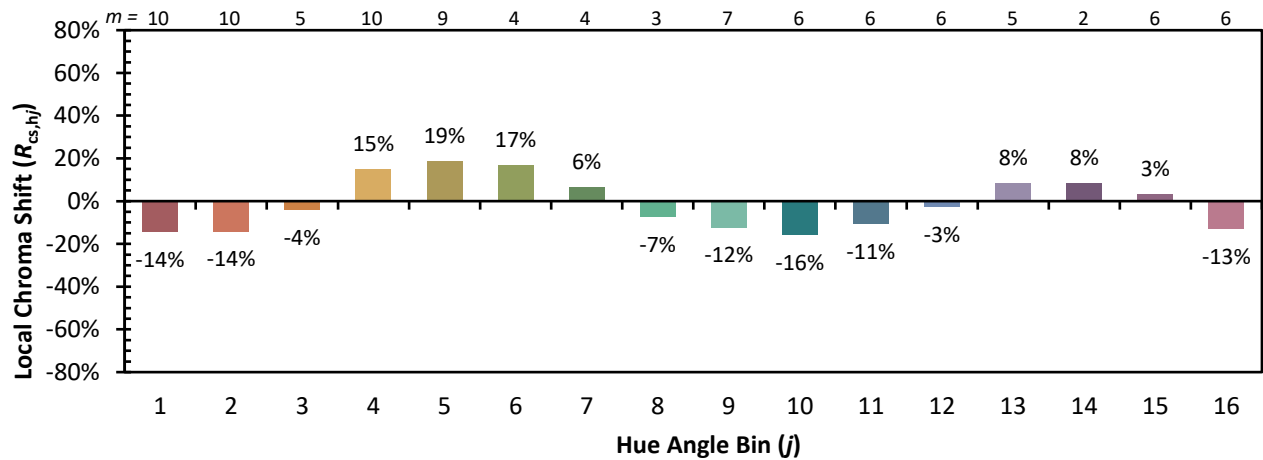
Color Vector Graphics



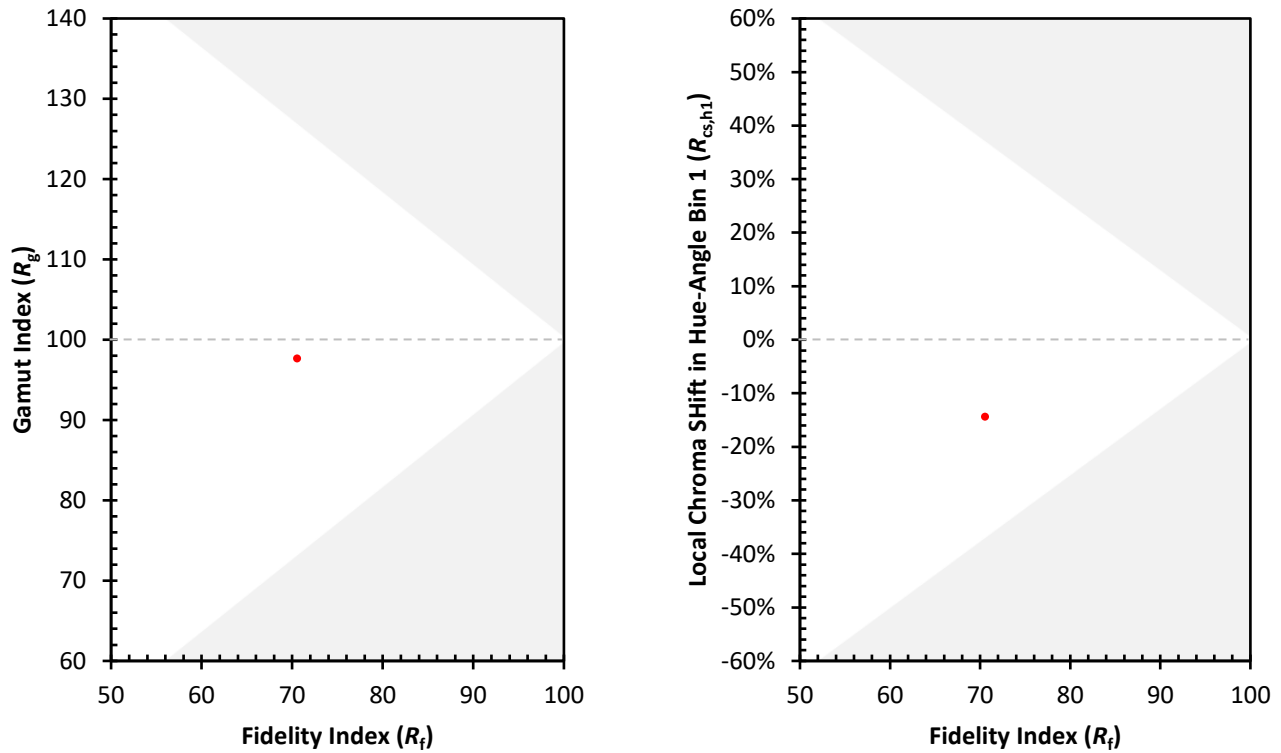
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 87	CES26 = 60	CES51 = 74	CES76 = 58
CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82 = 93
CES08 = 43	CES33 = 55	CES58 = 64	CES83 = 83
CES09 = 29	CES34 = 75	CES59 = 84	CES84 = 93
CES10 = 79	CES35 = 88	CES60 = 89	CES85 = 81
CES11 = 62	CES36 = 78	CES61 = 84	CES86 = 55
CES12 = 68	CES37 = 82	CES62 = 68	CES87 = 79
CES13 = 45	CES38 = 54	CES63 = 68	CES88 = 72
CES14 = 75	CES39 = 90	CES64 = 69	CES89 = 62
CES15 = 72	CES40 = 86	CES65 = 66	CES90 = 67
CES16 = 49	CES41 = 75	CES66 = 64	CES91 = 89
CES17 = 51	CES42 = 83	CES67 = 63	CES92 = 67
CES18 = 57	CES43 = 68	CES68 = 71	CES93 = 78
CES19 = 74	CES44 = 98	CES69 = 81	CES94 = 52
CES20 = 68	CES45 = 76	CES70 = 65	CES95 = 76
CES21 = 89	CES46 = 68	CES71 = 64	CES96 = 78
CES22 = 81	CES47 = 60	CES72 = 88	CES97 = 76
CES23 = 92	CES48 = 47	CES73 = 59	CES98 = 71
CES24 = 92	CES49 = 65	CES74 = 85	CES99 = 65
CES25 = 74	CES50 = 74	CES75 = 66	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)