

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: McGRAW-EDISON

Report Number: P1050071

Luminaire Tested: **GALN-SA9C-950-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1050071
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-950-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 9xLight Square PACKAGE
90CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (126) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35571.2 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G5

Input Watts (W): 417.1
Input Voltage (V): 120
Input Current (A_{in}): 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

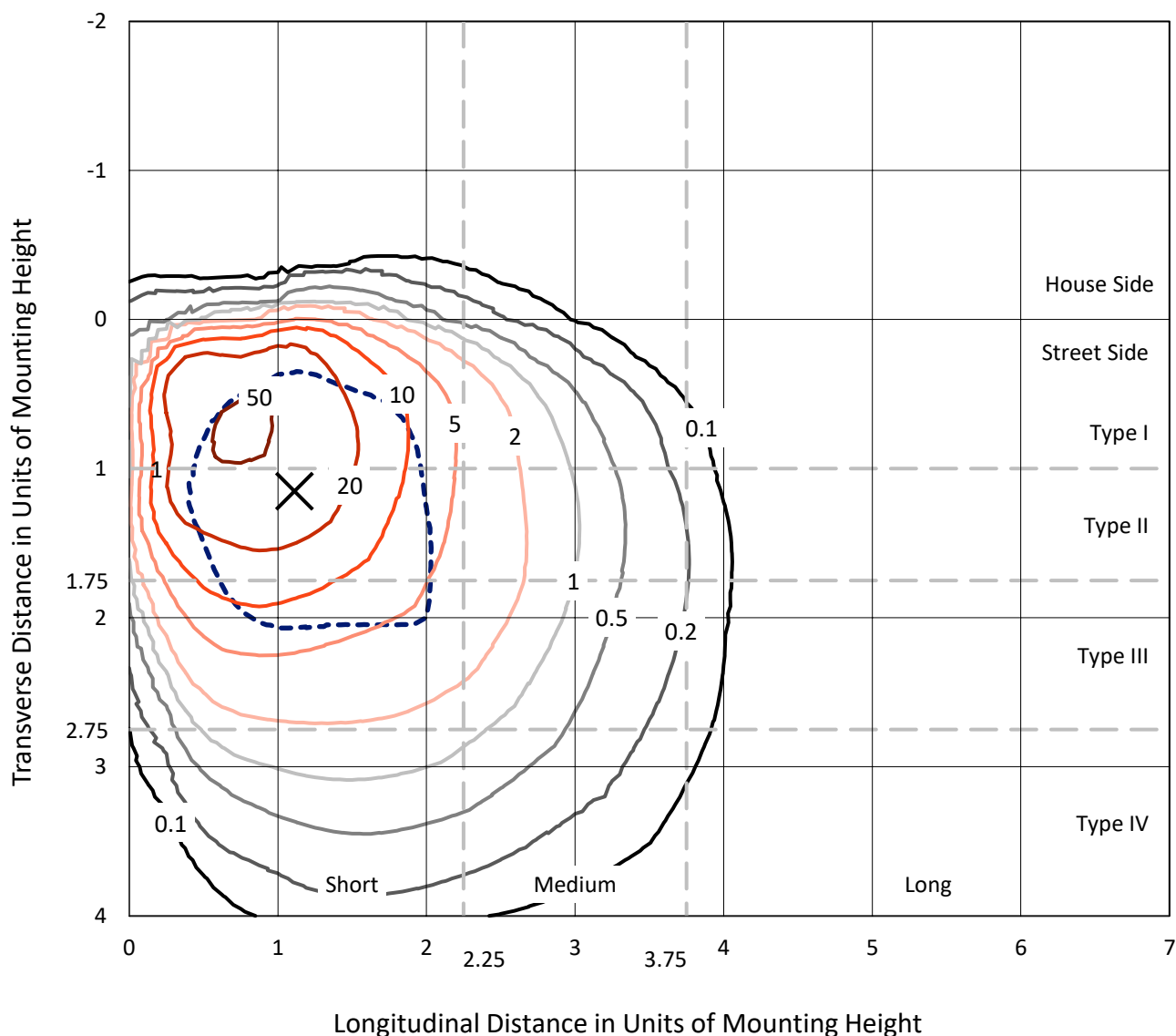
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

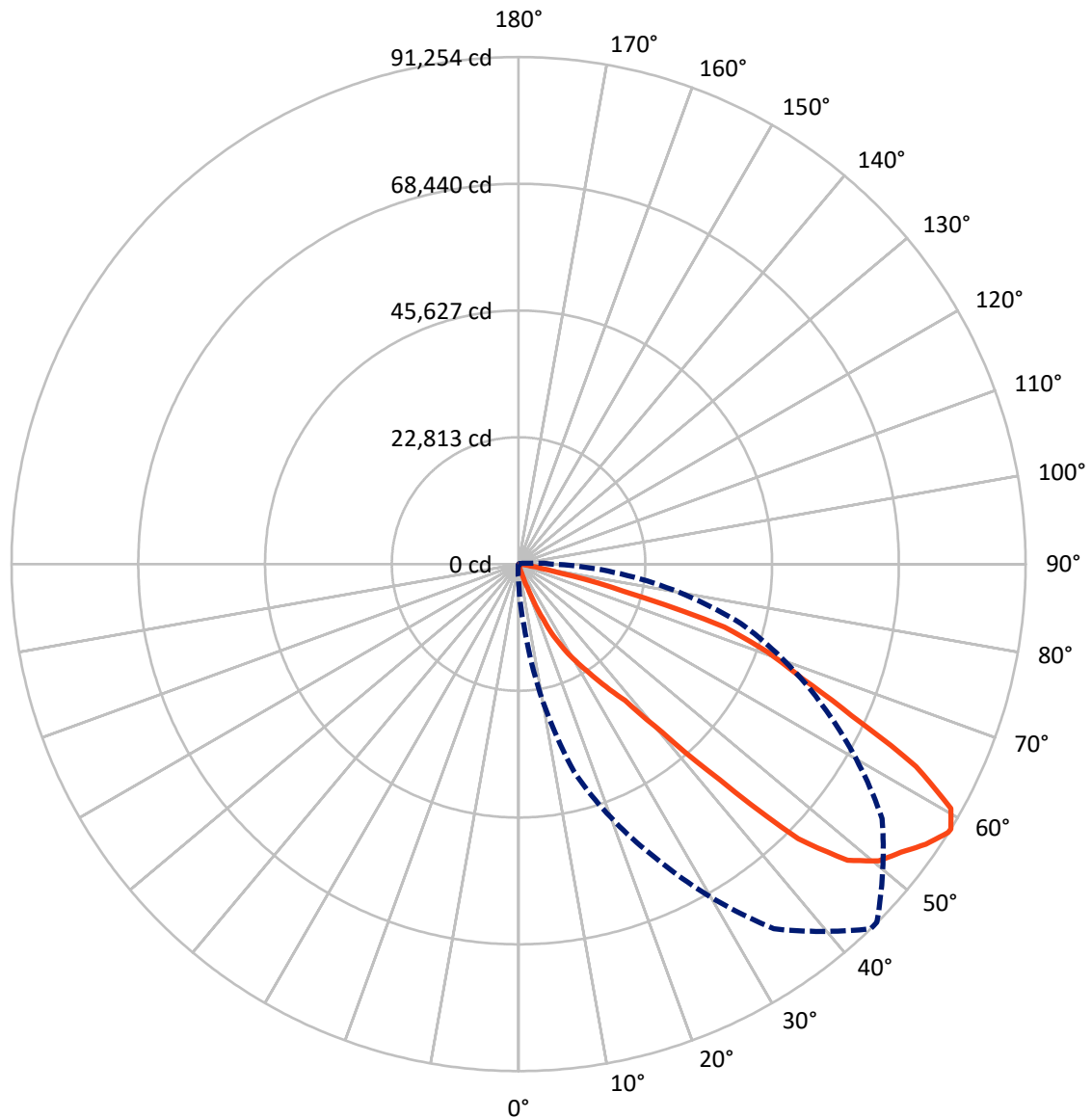


Based on 20 foot mounting height. Maximum calculated value = 61.9 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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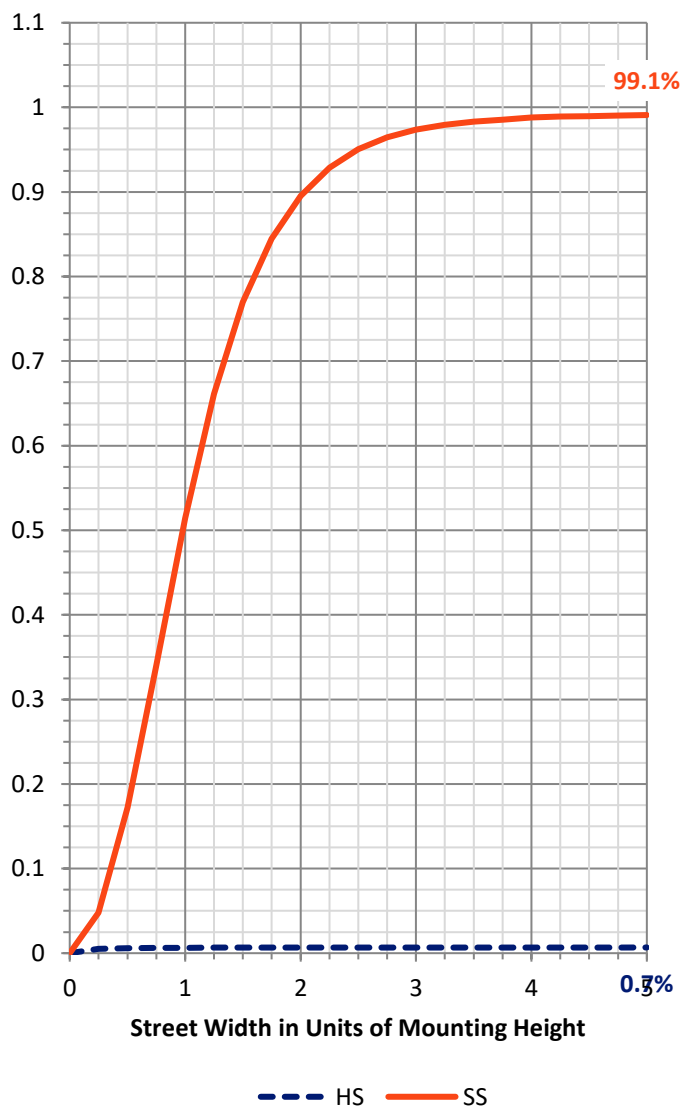
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	242.9	0.0	242.9
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	35328.3	0.0	35328.3
	% Fixture	99.3	0.0	99.3
Total	Lumens	35571.2	0.0	35571.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.9	0.0
10°-20°	78.0	0.2
20°-30°	842.7	2.4
30°-40°	2492.1	7.0
40°-50°	7427.8	20.9
50°-60°	11786.2	33.1
60°-70°	9831.1	27.6
70°-80°	3032.1	8.5
80°-90°	67.3	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°	35571.2	100.0
0°-180°	35571.2	100.0



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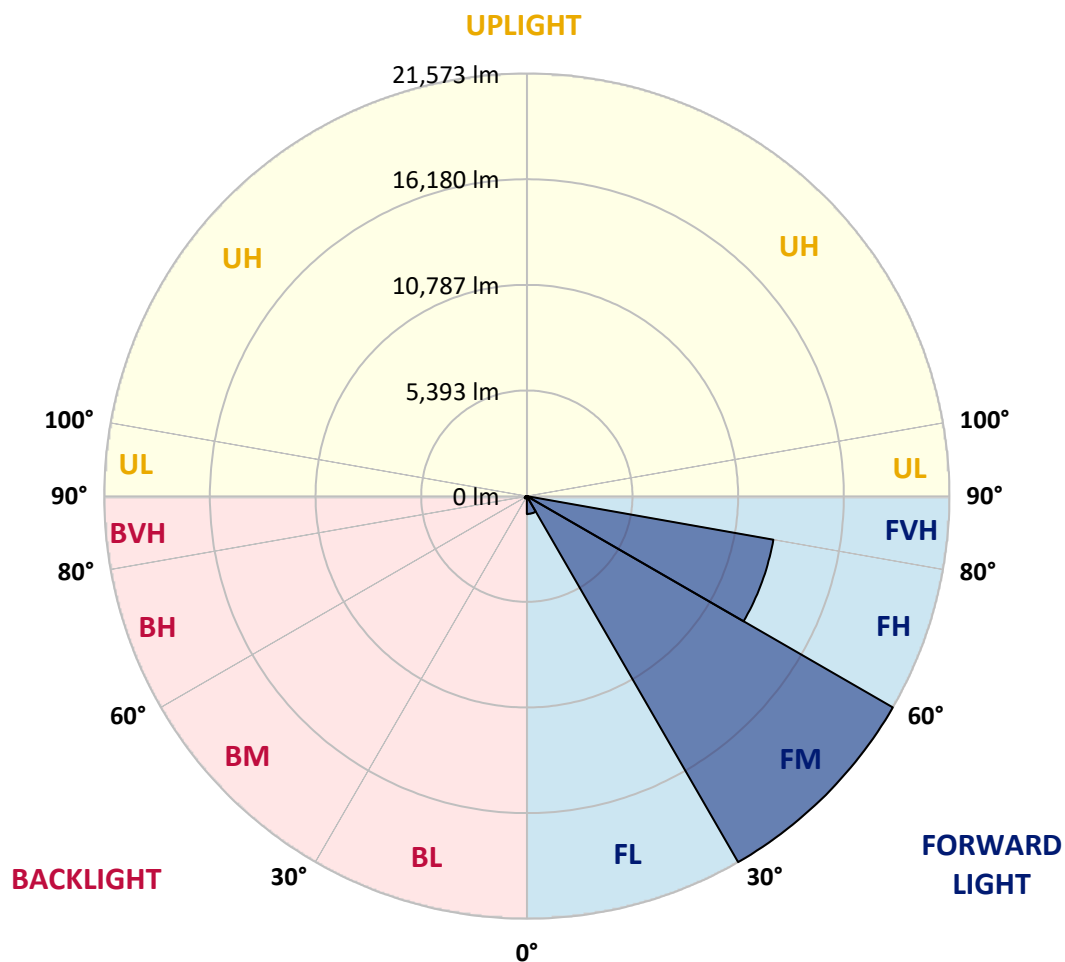
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	910.8	2.6			
FM	(30°-60°)	21573.2	60.6			
FH	(60°-80°)	12780.2	35.9			G5
FVH	(80°-90°)	64.1	0.2			G1/100
BL	(0°-30°)	23.8	0.1	B0/110		
BM	(30°-60°)	132.9	0.4	B0/220		
BH	(60°-80°)	82.9	0.2	B0/110		G0/110
BVH	(80°-90°)	3.3	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	155.9	155.9	155.9	155.9	155.9	155.9	155.9	155.9	155.9	155.9
2.5°	201.5	201.5	193.5	182.7	172.0	161.2	158.5	153.2	150.5	147.8
5°	209.6	209.6	206.9	198.8	188.1	180.0	180.0	172.0	166.6	161.2
7.5°	215.0	217.7	223.0	220.3	215.0	206.9	206.9	201.5	193.5	180.0
10°	223.0	231.1	241.8	247.2	249.9	249.9	247.2	244.5	231.1	212.3
12.5°	231.1	247.2	274.1	301.0	317.1	338.6	335.9	330.5	295.6	255.3
15°	247.2	271.4	327.8	405.8	526.7	601.9	631.5	604.6	489.1	343.9
17.5°	266.0	306.3	475.6	849.1	1391.9	1649.9	1805.7	1679.4	1112.5	653.0
20°	284.8	373.5	884.1	2200.7	3611.5	4455.2	4689.0	4323.5	2775.8	1244.1
22.5°	317.1	524.0	1792.3	4549.3	7781.8	9047.5	9286.6	8117.7	5242.5	2456.0
25°	384.3	760.4	3090.2	7413.7	11613.6	13749.9	13650.5	12118.8	8504.7	3923.2
27.5°	481.0	1107.1	4672.9	10533.4	15284.2	17167.9	17393.6	15499.2	11336.9	5769.2
30°	620.7	1534.3	6371.1	13032.4	18226.6	20263.4	20301.0	18342.1	13870.8	7389.5
32.5°	755.1	1937.4	7857.1	15448.1	21126.0	23359.0	23525.6	21115.2	15762.5	9077.0
35°	857.2	2200.7	9361.9	17570.9	24049.5	27126.3	27115.5	24253.8	18003.6	10584.5
37.5°	865.2	2464.1	10724.2	19742.1	27752.4	31197.2	31538.5	28383.8	20712.2	12449.3
40°	846.4	2759.7	12449.3	23127.9	34424.4	39710.0	40010.9	36034.0	26145.5	15641.6
42.5°	867.9	3272.9	15249.3	29380.7	45503.3	53094.4	53674.8	49493.7	36133.4	22155.1
45°	980.8	4237.6	21115.2	39841.6	61295.4	70549.8	70356.3	64334.5	47755.1	32070.5
47.5°	1354.3	6599.5	29810.7	50023.0	71388.2	79629.5	79796.1	72436.1	54537.4	39693.8
50°	2082.5	10098.1	37116.9	55405.3	75727.8	83996.1	83840.2	75335.5	57114.3	43447.7
52.5°	2708.6	12629.4	40782.1	57294.3	76284.1	86153.8	86143.0	76098.7	57514.7	43770.2
55°	2864.4	12820.2	40811.7	57396.5	77530.9	88977.9	89332.6	77976.9	58033.3	42362.1
57.5°	2802.6	11350.3	39108.1	57987.6	79750.4	91162.5	91181.4	79796.1	59350.0	41499.6
58°	2748.9	11119.2	38764.1	58323.5	80132.0	91253.9	91208.2	79879.4	60422.1	41467.3
60°	2447.9	9654.7	37423.2	59180.7	79565.0	89378.3	88951.1	78060.2	60263.6	41136.8
62.5°	1924.0	7531.9	36103.9	58189.1	73486.8	80298.6	80476.0	69109.5	54937.8	39210.2
65°	1531.6	5613.4	33352.3	51041.5	60513.5	65941.4	66602.5	56198.0	45855.4	33201.8
67.5°	1219.9	4057.5	27978.1	40637.0	47884.1	55034.5	55515.5	47182.8	35526.1	25438.8
70°	991.5	2743.5	19312.2	29719.3	39495.0	47534.8	47564.4	39196.7	26516.3	16668.1
72.5°	878.7	1899.8	11210.6	21674.1	32024.9	38734.5	37952.6	31807.2	20379.0	9872.4
75°	760.4	1260.2	5497.8	13250.1	19417.0	19548.7	19846.9	14754.9	10186.8	4694.4
77.5°	626.1	894.8	2165.8	3619.5	5822.9	7454.0	7730.8	5857.9	3388.4	1155.5
80°	429.9	424.6	583.1	1109.8	1666.0	2087.9	1948.1	1507.5	886.7	443.4
82.5°	185.4	201.5	263.3	317.1	258.0	249.9	239.2	153.2	118.2	91.4
85°	59.1	53.7	56.4	56.4	45.7	34.9	34.9	16.1	0.0	0.0
87.5°	29.6	24.2	24.2	21.5	13.4	5.4	2.7	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



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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
155.9	0°	155.9	155.9	155.9	155.9	155.9	155.9	155.9	155.9	155.9	155.9
145.1	2.5°	142.4	142.4	137.0	131.7	129.0	123.6	120.9	118.2	115.5	112.9
155.9	5°	150.5	147.8	139.7	131.7	123.6	115.5	110.2	104.8	99.4	96.7
172.0	7.5°	163.9	158.5	142.4	129.0	118.2	107.5	102.1	94.0	88.7	80.6
190.8	10°	180.0	169.3	147.8	131.7	115.5	102.1	94.0	86.0	77.9	67.2
217.7	12.5°	201.5	182.7	155.9	129.0	110.2	94.0	86.0	75.2	67.2	59.1
252.6	15°	220.3	196.2	158.5	129.0	104.8	86.0	75.2	64.5	56.4	45.7
317.1	17.5°	247.2	206.9	155.9	120.9	96.7	75.2	64.5	56.4	43.0	26.9
470.2	20°	292.9	215.0	150.5	112.9	83.3	61.8	48.4	37.6	18.8	5.4
706.7	22.5°	365.4	236.5	145.1	102.1	72.6	48.4	32.2	13.4	0.0	0.0
1074.8	25°	505.2	274.1	145.1	96.7	64.5	34.9	10.7	0.0	0.0	0.0
1526.3	27.5°	671.8	325.1	145.1	83.3	51.1	18.8	0.0	0.0	0.0	0.0
2079.8	30°	841.1	381.6	145.1	72.6	40.3	2.7	0.0	0.0	0.0	0.0
2560.8	32.5°	1002.3	429.9	147.8	61.8	26.9	0.0	0.0	0.0	0.0	0.0
3227.2	35°	1166.2	438.0	145.1	53.7	16.1	0.0	0.0	0.0	0.0	0.0
4044.1	37.5°	1375.8	421.9	137.0	48.4	8.1	0.0	0.0	0.0	0.0	0.0
5320.5	40°	1692.9	429.9	129.0	45.7	2.7	0.0	0.0	0.0	0.0	0.0
7596.4	42.5°	2278.7	464.9	118.2	45.7	0.0	0.0	0.0	0.0	0.0	0.0
12100.0	45°	3939.3	623.4	107.5	48.4	0.0	0.0	0.0	0.0	0.0	0.0
18164.8	47.5°	6516.2	1120.5	104.8	48.4	0.0	0.0	0.0	0.0	0.0	0.0
21881.1	50°	8316.6	1410.7	110.2	51.1	0.0	0.0	0.0	0.0	0.0	0.0
22345.9	52.5°	8303.1	1572.0	115.5	53.7	10.7	0.0	0.0	0.0	0.0	0.0
20596.6	55°	7381.5	1601.5	123.6	59.1	34.9	0.0	0.0	0.0	0.0	0.0
17699.9	57.5°	6169.6	1461.8	142.4	72.6	64.5	0.0	0.0	0.0	0.0	0.0
17245.8	58°	5954.6	1397.3	147.8	75.2	69.9	0.0	0.0	0.0	0.0	0.0
14959.1	60°	4879.8	1139.3	188.1	94.0	94.0	0.0	0.0	0.0	0.0	0.0
12263.9	62.5°	3369.6	994.2	215.0	120.9	96.7	0.0	0.0	0.0	0.0	0.0
9042.1	65°	2383.5	897.5	233.8	129.0	77.9	0.0	0.0	0.0	0.0	0.0
6424.9	67.5°	1781.5	827.6	258.0	131.7	40.3	0.0	0.0	0.0	0.0	0.0
4030.6	70°	1365.0	776.6	317.1	139.7	10.7	0.0	0.0	0.0	0.0	0.0
2402.3	72.5°	1112.5	717.5	384.3	145.1	0.0	0.0	0.0	0.0	0.0	0.0
1440.3	75°	921.7	647.6	370.8	158.5	0.0	0.0	0.0	0.0	0.0	0.0
768.5	77.5°	612.7	502.5	338.6	158.5	0.0	0.0	0.0	0.0	0.0	0.0
274.1	80°	215.0	198.8	263.3	139.7	0.0	0.0	0.0	0.0	0.0	0.0
56.4	82.5°	32.2	26.9	37.6	48.4	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
155.9	0°	155.9	155.9	155.9	155.9	155.9	155.9	155.9	155.9	155.9	155.9
110.2	2.5°	110.2	110.2	107.5	110.2	110.2	115.5	129.0	147.8	169.3	177.3
94.0	5°	91.4	88.7	86.0	86.0	86.0	94.0	104.8	126.3	150.5	161.2
77.9	7.5°	75.2	72.6	69.9	67.2	67.2	72.6	86.0	110.2	134.4	145.1
64.5	10°	61.8	56.4	53.7	51.1	51.1	56.4	69.9	94.0	120.9	131.7
53.7	12.5°	51.1	43.0	37.6	34.9	32.2	40.3	53.7	75.2	104.8	118.2
40.3	15°	34.9	26.9	18.8	16.1	13.4	21.5	34.9	59.1	88.7	104.8
21.5	17.5°	18.8	8.1	2.7	0.0	0.0	5.4	16.1	43.0	72.6	86.0
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.5	53.7	67.2
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	32.2	45.7
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.4	24.2
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4
0.0	30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	82.5°	0.0	0.0	0.0	0.0	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	8.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.7	21.5
0.0	90°	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):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
155.9	0°	155.9	155.9	155.9	155.9	155.9	155.9	155.9	155.9	155.9	155.9
185.4	2.5°	190.8	188.1	182.7	177.3	177.3	177.3	185.4	193.5	201.5	201.5
166.6	5°	177.3	177.3	174.7	169.3	169.3	172.0	182.7	196.2	206.9	209.6
153.2	7.5°	163.9	169.3	163.9	161.2	163.9	166.6	177.3	193.5	209.6	215.0
142.4	10°	155.9	158.5	158.5	155.9	155.9	161.2	172.0	193.5	215.0	223.0
129.0	12.5°	145.1	150.5	147.8	147.8	147.8	153.2	166.6	190.8	220.3	231.1
115.5	15°	134.4	142.4	142.4	139.7	139.7	142.4	161.2	188.1	228.4	247.2
99.4	17.5°	123.6	131.7	134.4	129.0	129.0	134.4	153.2	188.1	233.8	266.0
80.6	20°	102.1	115.5	123.6	115.5	115.5	120.9	139.7	177.3	236.5	284.8
59.1	22.5°	80.6	94.0	104.8	102.1	102.1	104.8	129.0	169.3	239.2	317.1
34.9	25°	59.1	72.6	80.6	86.0	86.0	94.0	118.2	163.9	249.9	384.3
16.1	27.5°	34.9	51.1	61.8	67.2	69.9	80.6	110.2	158.5	268.7	481.0
0.0	30°	16.1	29.6	43.0	53.7	53.7	72.6	102.1	153.2	292.9	620.7
0.0	32.5°	0.0	13.4	21.5	37.6	40.3	59.1	94.0	147.8	327.8	755.1
0.0	35°	0.0	0.0	10.7	29.6	29.6	48.4	86.0	142.4	381.6	857.2
0.0	37.5°	0.0	0.0	0.0	21.5	24.2	43.0	83.3	139.7	392.3	865.2
0.0	40°	0.0	0.0	0.0	16.1	18.8	40.3	83.3	142.4	354.7	846.4
0.0	42.5°	0.0	0.0	0.0	10.7	13.4	40.3	83.3	147.8	319.8	867.9
0.0	45°	0.0	0.0	0.0	8.1	10.7	43.0	80.6	145.1	301.0	980.8
0.0	47.5°	0.0	0.0	0.0	10.7	16.1	43.0	77.9	142.4	303.6	1354.3
0.0	50°	0.0	0.0	0.0	13.4	18.8	43.0	80.6	137.0	333.2	2082.5
0.0	52.5°	0.0	0.0	0.0	10.7	16.1	48.4	88.7	134.4	362.8	2708.6
0.0	55°	0.0	0.0	0.0	2.7	8.1	61.8	96.7	134.4	408.4	2864.4
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	69.9	110.2	142.4	483.7	2802.6
0.0	58°	0.0	0.0	0.0	0.0	0.0	69.9	112.9	142.4	489.1	2748.9
0.0	60°	0.0	0.0	0.0	0.0	0.0	69.9	123.6	158.5	526.7	2447.9
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	59.1	147.8	198.8	548.2	1924.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	48.4	174.7	217.7	564.3	1531.6
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	45.7	180.0	220.3	572.4	1219.9
0.0	70°	0.0	0.0	0.0	0.0	0.0	48.4	177.3	236.5	599.2	991.5
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	53.7	161.2	260.6	599.2	878.7
0.0	75°	0.0	0.0	0.0	0.0	0.0	56.4	150.5	292.9	545.5	760.4
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	53.7	147.8	341.3	486.4	626.1
0.0	80°	5.4	8.1	8.1	5.4	5.4	45.7	145.1	346.6	413.8	429.9
2.7	82.5°	16.1	21.5	18.8	13.4	13.4	40.3	129.0	290.2	215.0	185.4
16.1	85°	29.6	34.9	34.9	29.6	29.6	37.6	80.6	104.8	72.6	59.1
29.6	87.5°	40.3	45.7	45.7	40.3	40.3	37.6	34.9	32.2	29.6	29.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-17

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-950-U-5WQ

Data in this report applies to families of products including GSS-SB1A-950-U-5WQ

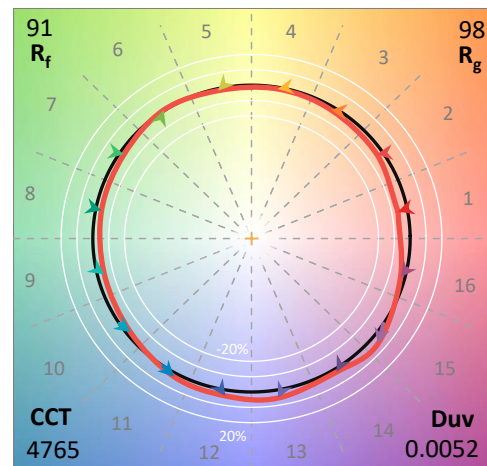
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-17
 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-950-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K): 4765
 CIE u' : 0.2105
 CIE v' : 0.4941
 Duv: 0.0052
 CIE x: 0.3536
 CIE y: 0.3689
 CIE z: 0.2775
 Peak Wavelength (nm): 449
 Dominant Wavelength (nm): 571
 Purity: 16.80041
 R_f: 90.7
 R_g: 98

CRI (Ra): 90.8
 R1: 89.8
 R2: 93.1
 R3: 95.3
 R4: 90.3
 R5: 89.0
 R6: 89.7
 R7: 94.9
 R8: 84.0
 R9: 54.9
 R10: 83.0
 R11: 89.6
 R12: 68.0
 R13: 90.6
 R14: 97.3
 R15: 86.2



Test Conditions

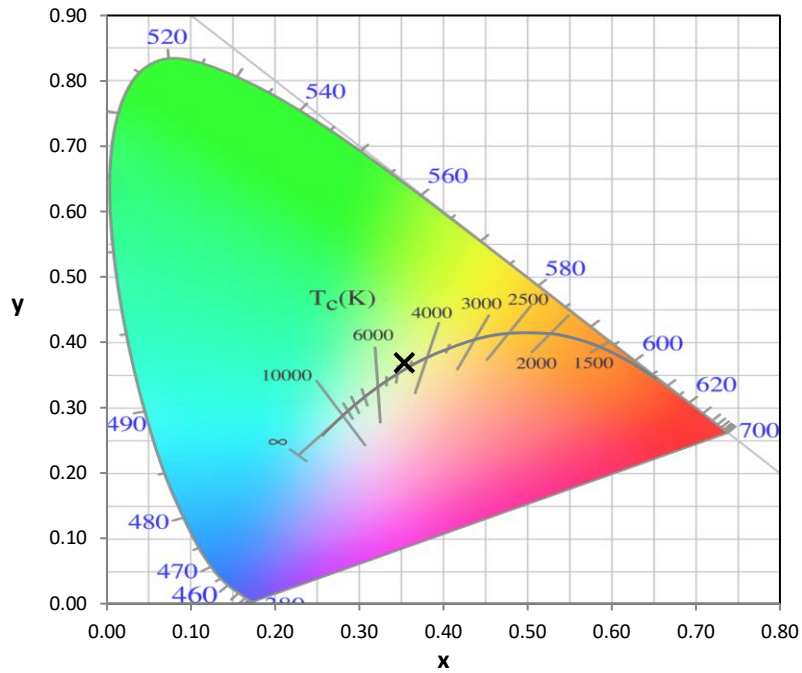
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-17

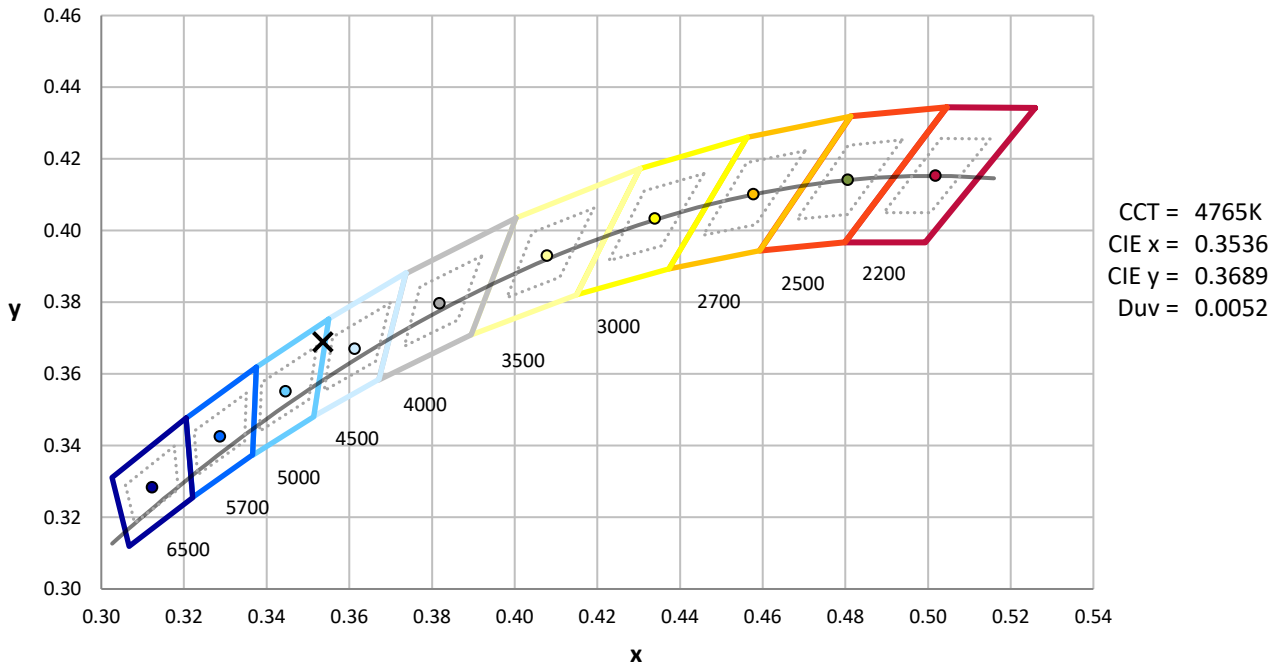
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-17

CIE 1931 Chromaticity Diagram



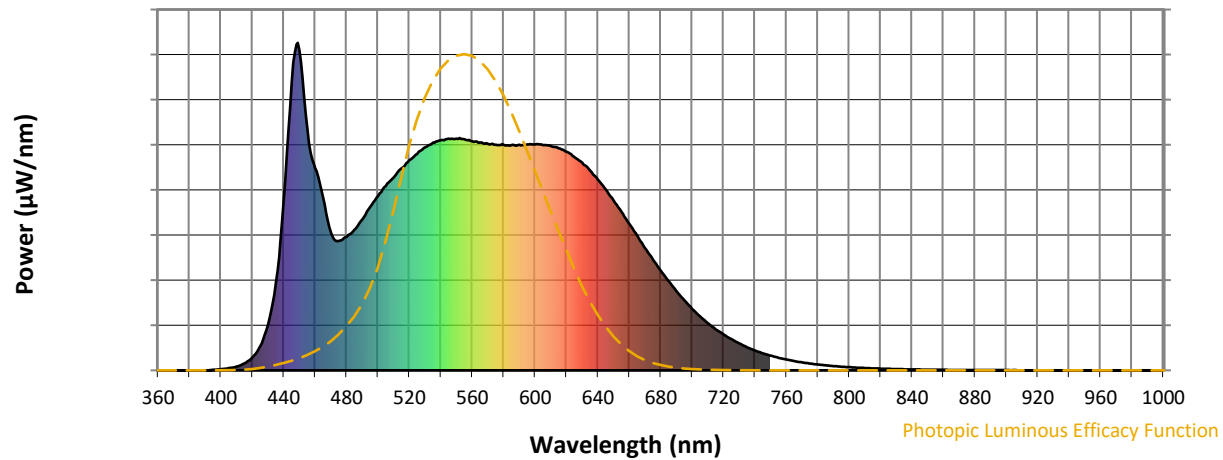
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-17

Photopic Flux vs. Wavelength

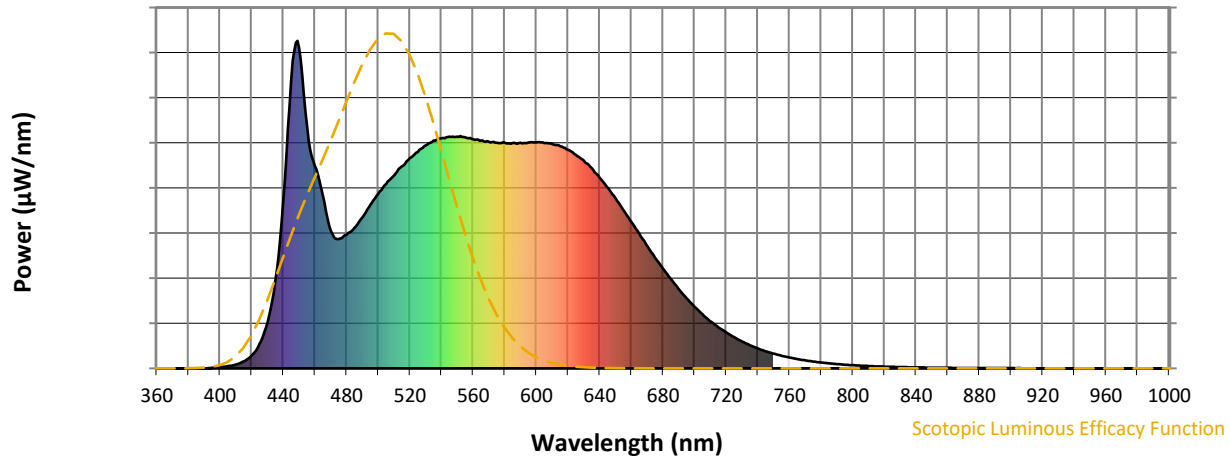


Photopic Lumens: NR

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	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-17

Scotopic Flux vs. Wavelength



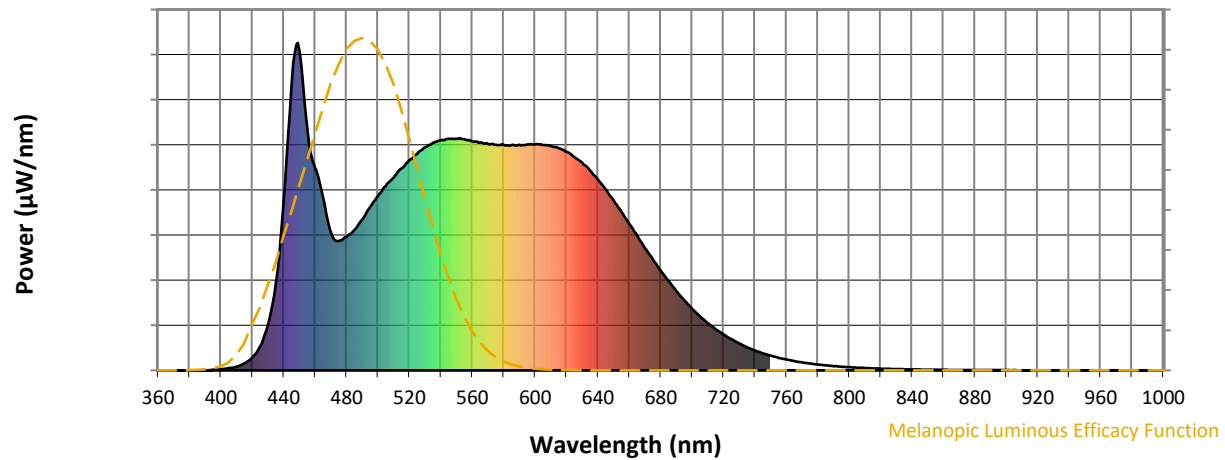
Scotopic Lumens: NR

S/P: 1.99

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	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 4.22

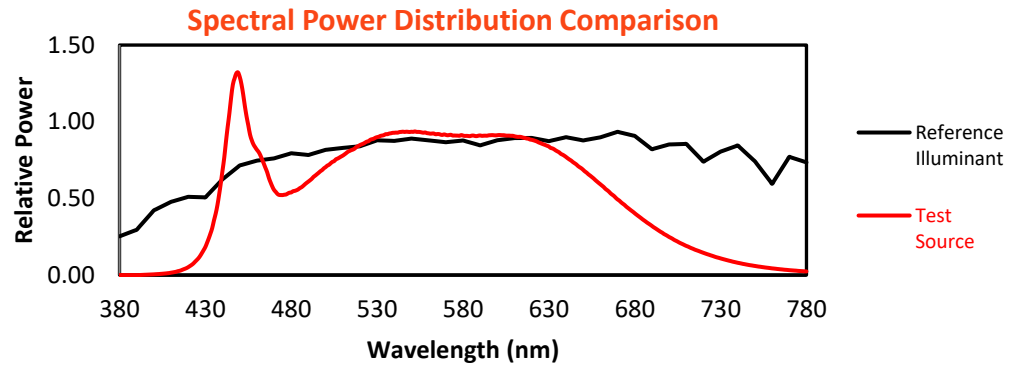
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-17

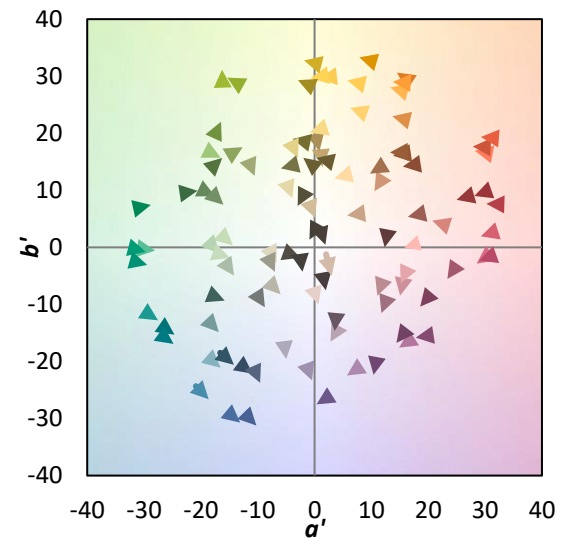
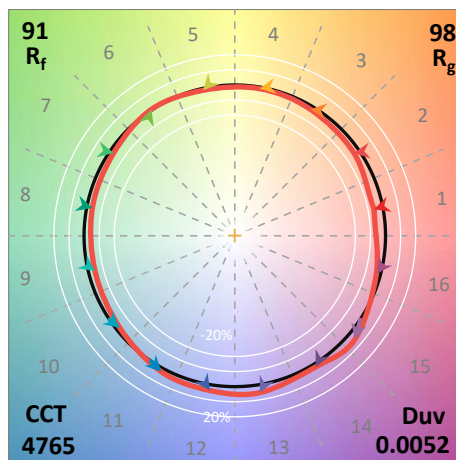
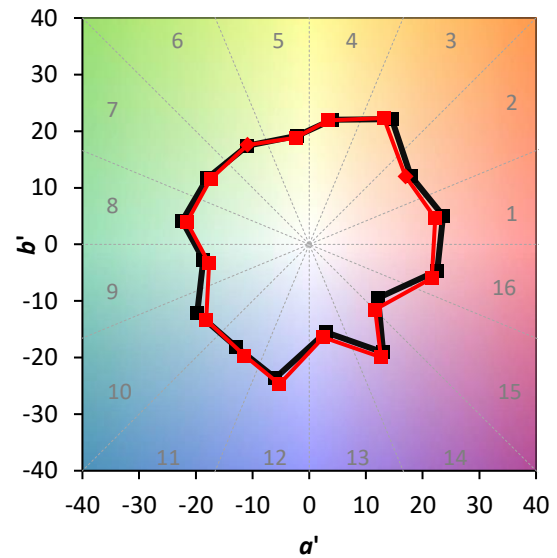
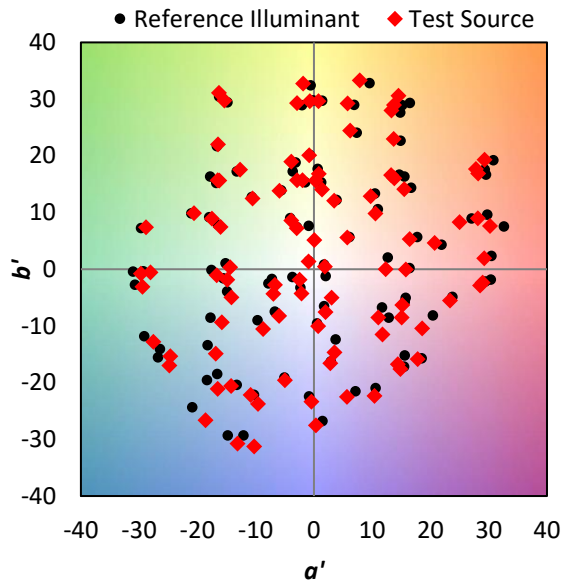
TM-30-18

Summary

$R_f = 90.7$
 $R_g = 98$
 CIE $R_a = 90.8$
 $R_9 = 54.9$

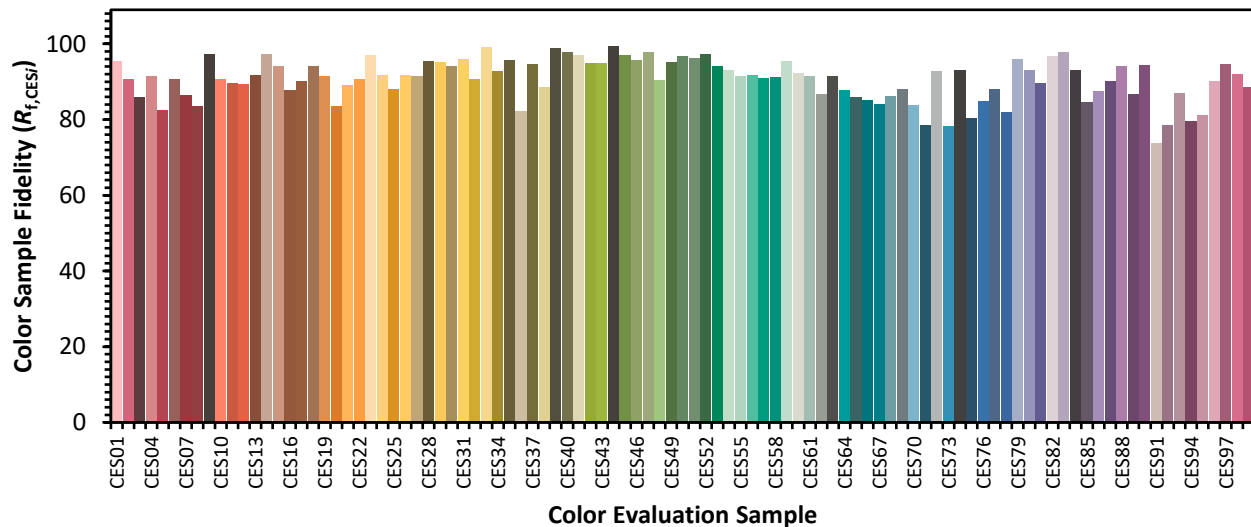


Color Vector Graphics

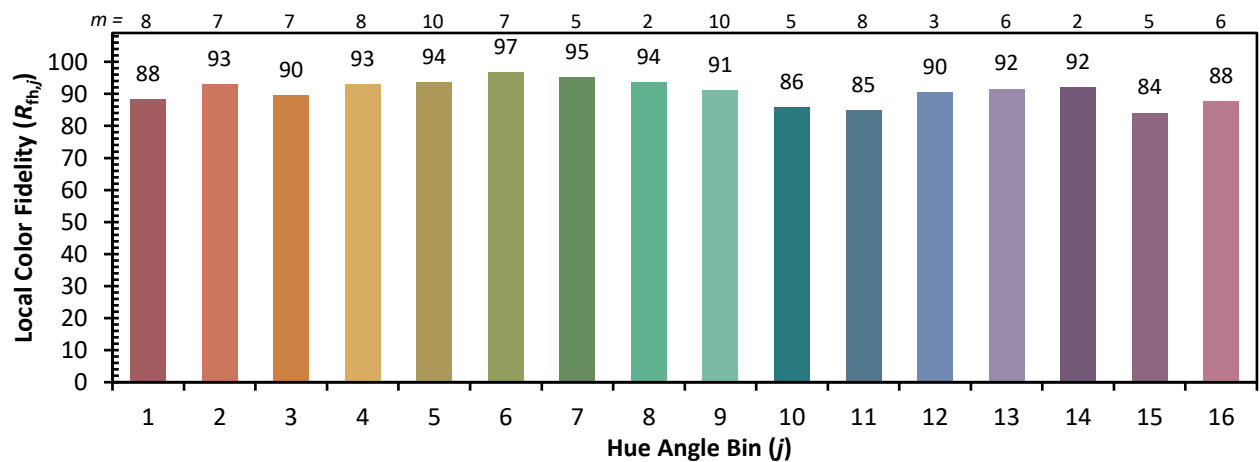
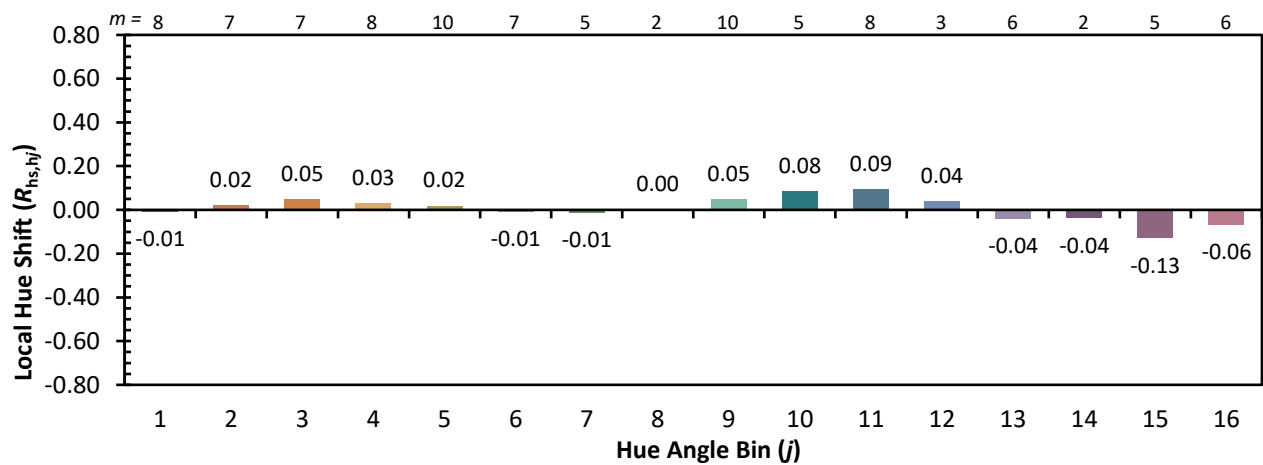
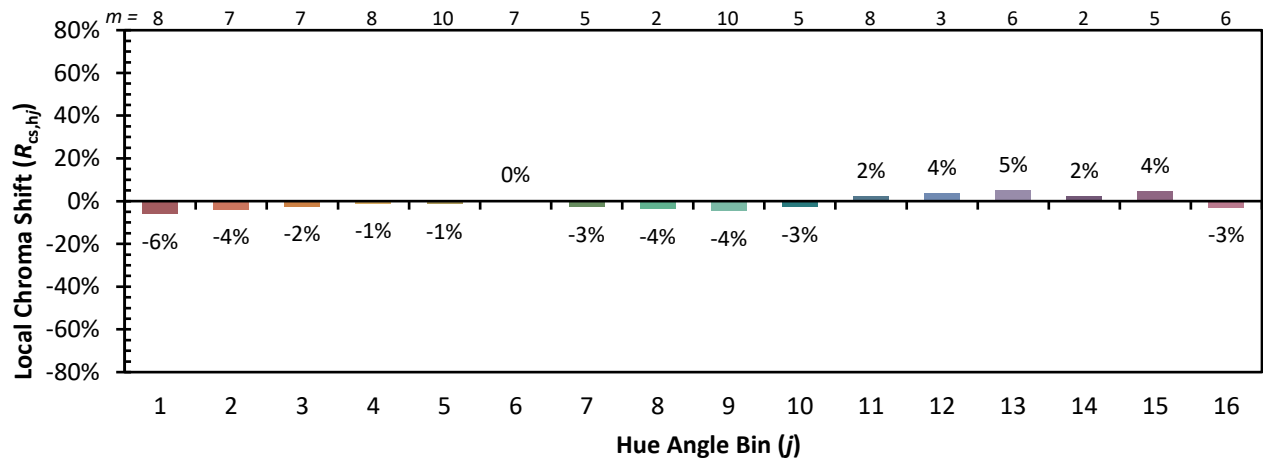


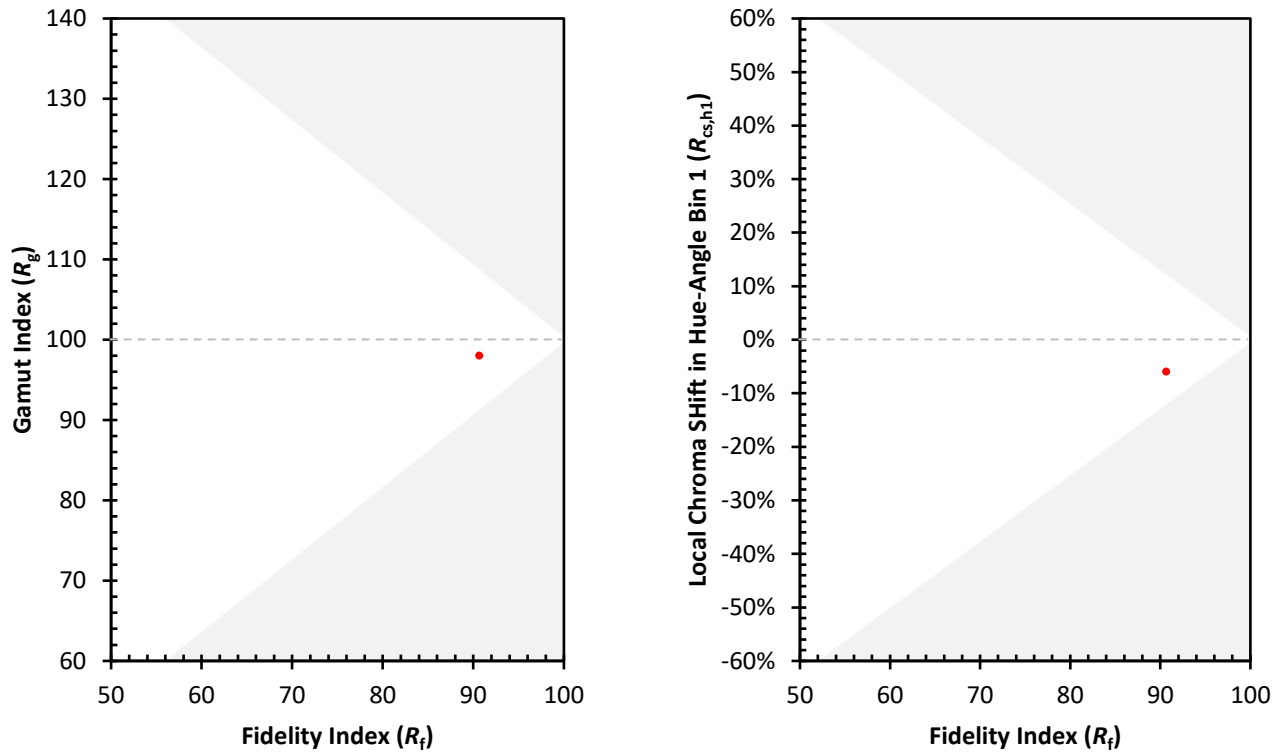
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 92	CES51 = 96	CES76 = 85
CES02 = 60	CES27 = 92	CES52 = 97	CES77 = 88
CES03 = 31	CES28 = 95	CES53 = 94	CES78 = 82
CES04 = 69	CES29 = 95	CES54 = 93	CES79 = 96
CES05 = 48	CES30 = 94	CES55 = 92	CES80 = 93
CES06 = 50	CES31 = 96	CES56 = 92	CES81 = 89
CES07 = 41	CES32 = 91	CES57 = 91	CES82 = 97
CES08 = 40	CES33 = 99	CES58 = 91	CES83 = 98
CES09 = 29	CES34 = 93	CES59 = 95	CES84 = 93
CES10 = 73	CES35 = 96	CES60 = 92	CES85 = 85
CES11 = 56	CES36 = 82	CES61 = 92	CES86 = 88
CES12 = 62	CES37 = 95	CES62 = 87	CES87 = 90
CES13 = 42	CES38 = 89	CES63 = 91	CES88 = 94
CES14 = 74	CES39 = 99	CES64 = 88	CES89 = 87
CES15 = 71	CES40 = 98	CES65 = 86	CES90 = 94
CES16 = 46	CES41 = 97	CES66 = 85	CES91 = 74
CES17 = 48	CES42 = 95	CES67 = 84	CES92 = 78
CES18 = 56	CES43 = 95	CES68 = 86	CES93 = 87
CES19 = 70	CES44 = 100	CES69 = 88	CES94 = 80
CES20 = 65	CES45 = 97	CES70 = 84	CES95 = 81
CES21 = 85	CES46 = 96	CES71 = 79	CES96 = 90
CES22 = 77	CES47 = 98	CES72 = 93	CES97 = 95
CES23 = 91	CES48 = 90	CES73 = 78	CES98 = 92
CES24 = 90	CES49 = 95	CES74 = 93	CES99 = 88
CES25 = 70	CES50 = 97	CES75 = 80	



Color Rendition by Hue-Angle Bin



Measure Comparisons


(END OF REPORT)