

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: P1049869

Luminaire Tested: **GALN-SA4A-850-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049869
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-850-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 4xLight Square PACKAGE
80CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12112.4 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

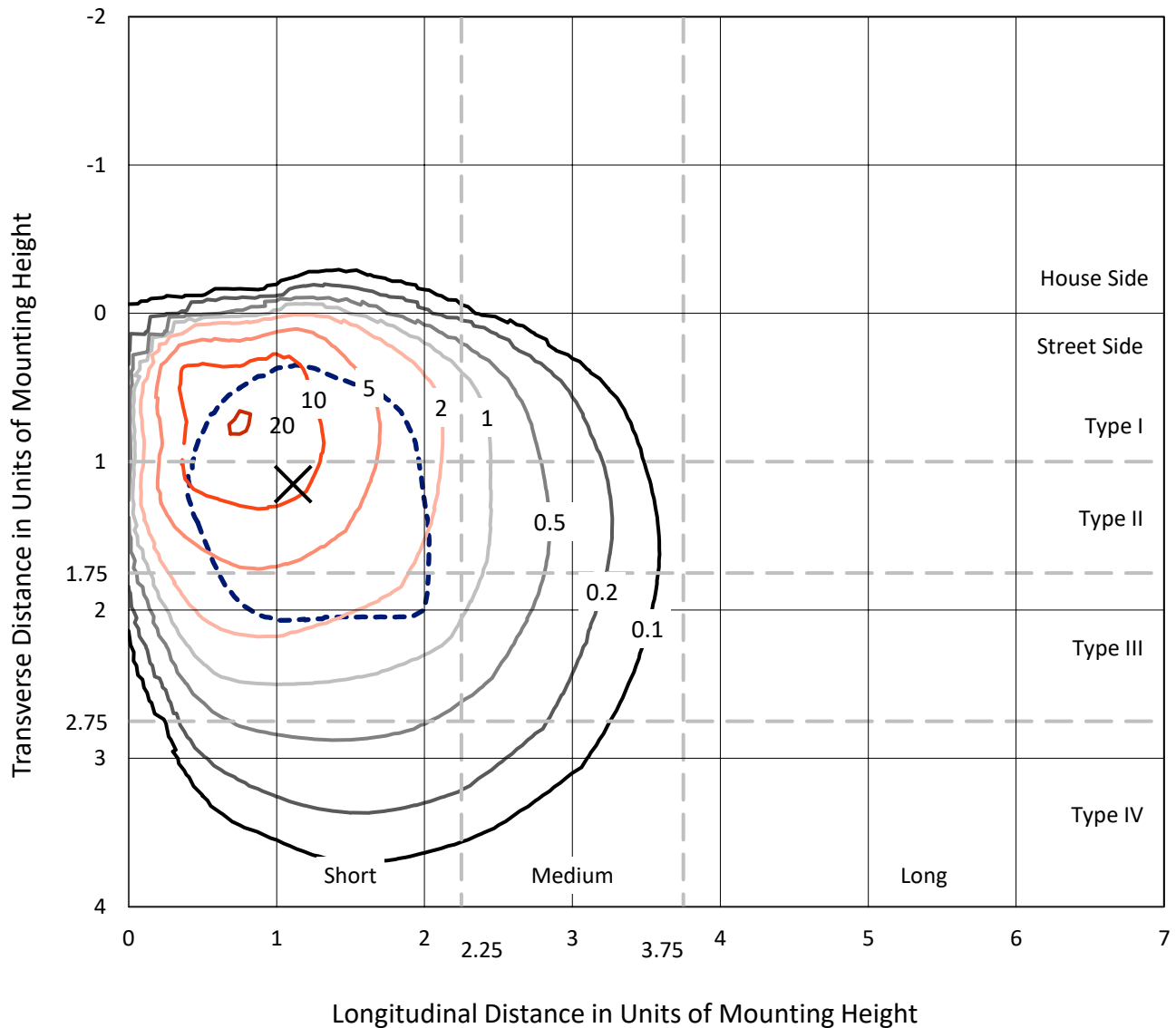
Input Watts (W): 107.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

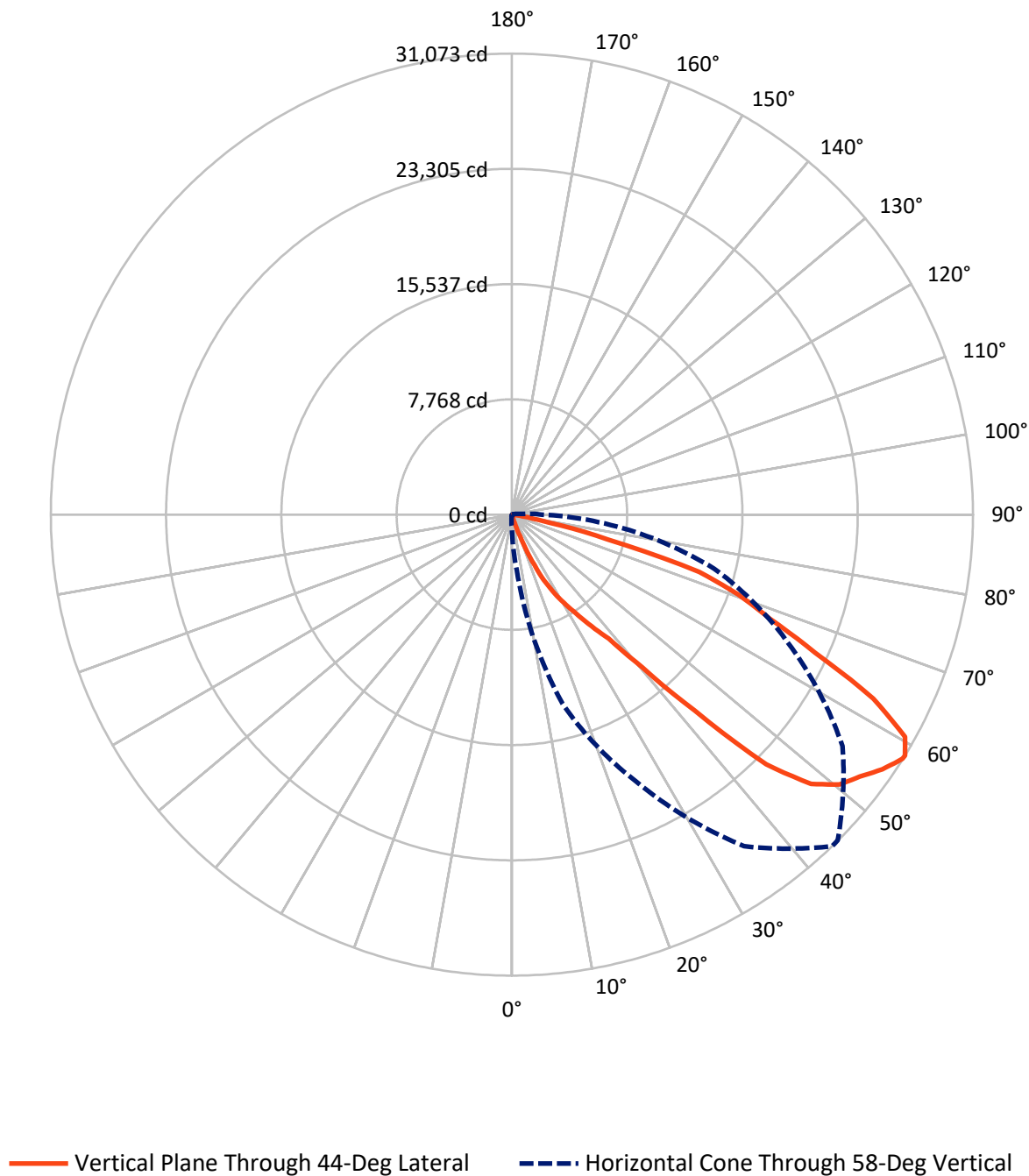


Based on 20 foot mounting height. Maximum calculated value = 21.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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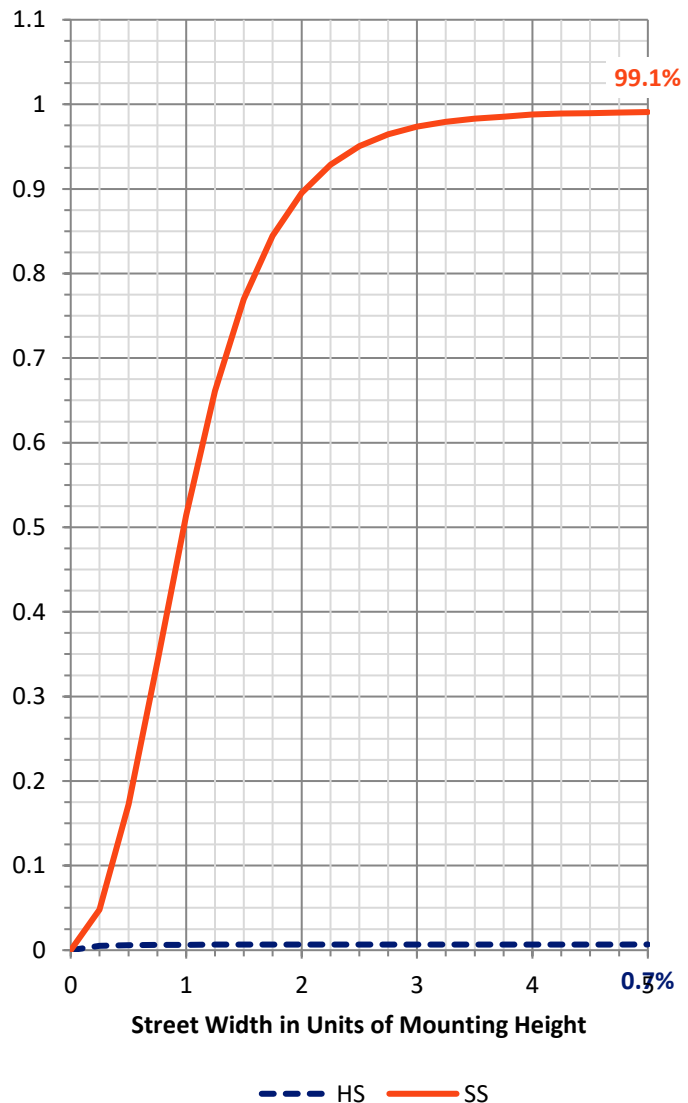
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	82.7	0.0	82.7
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	12029.7	0.0	12029.7
	% Fixture	99.3	0.0	99.3
Total	Lumens	12112.4	0.0	12112.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.7	0.0
10°-20°	26.6	0.2
20°-30°	286.9	2.4
30°-40°	848.6	7.0
40°-50°	2529.3	20.9
50°-60°	4013.3	33.1
60°-70°	3347.6	27.6
70°-80°	1032.4	8.5
80°-90°	22.9	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°	12112.4	100.0
0°-180°	12112.4	100.0



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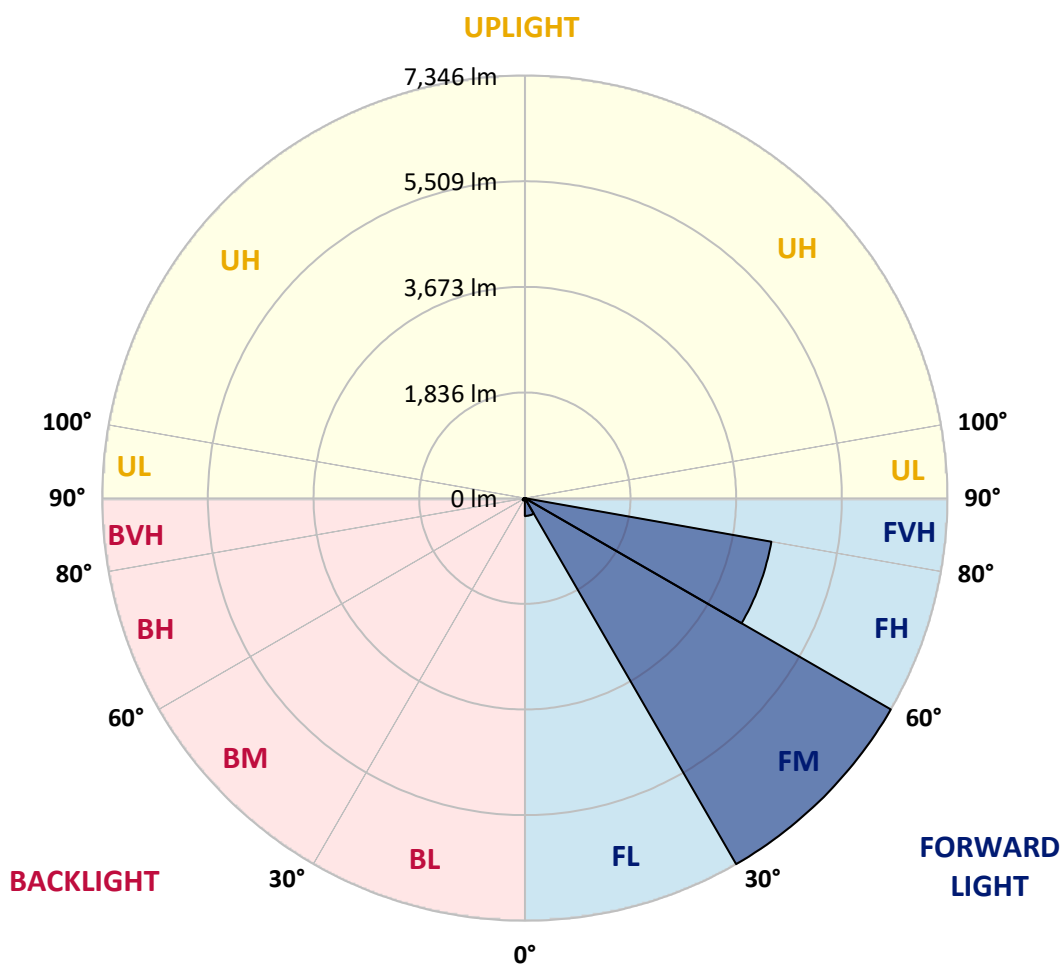
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	310.1	2.6			
FM	(30°-60°)	7345.9	60.6			
FH	(60°-80°)	4351.8	35.9			G2/5000
FVH	(80°-90°)	21.8	0.2			G1/100
BL	(0°-30°)	8.1	0.1	B0/110		
BM	(30°-60°)	45.3	0.4	B0/220		
BH	(60°-80°)	28.2	0.2	B0/110		G0/110
BVH	(80°-90°)	1.1	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°	44°	45°	55°	65°	75°
0°	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
2.5°	68.6	68.6	65.9	62.2	58.6	54.9	54.0	52.2	51.2	50.3
5°	71.4	71.4	70.5	67.7	64.0	61.3	61.3	58.6	56.7	54.9
7.5°	73.2	74.1	75.9	75.0	73.2	70.5	70.5	68.6	65.9	61.3
10°	75.9	78.7	82.3	84.2	85.1	85.1	84.2	83.3	78.7	72.3
12.5°	78.7	84.2	93.3	102.5	108.0	115.3	114.4	112.5	100.6	86.9
15°	84.2	92.4	111.6	138.2	179.3	205.0	215.0	205.9	166.5	117.1
17.5°	90.6	104.3	162.0	289.1	474.0	561.8	614.9	571.9	378.8	222.3
20°	97.0	127.2	301.0	749.4	1229.7	1517.1	1596.7	1472.2	945.2	423.6
22.5°	108.0	178.4	610.3	1549.1	2649.8	3080.8	3162.2	2764.2	1785.1	836.3
25°	130.8	258.9	1052.2	2524.5	3954.6	4682.0	4648.1	4126.6	2895.9	1335.9
27.5°	163.8	377.0	1591.2	3586.8	5204.5	5845.9	5922.7	5277.7	3860.3	1964.5
30°	211.4	522.5	2169.4	4437.7	6206.4	6899.9	6912.7	6245.7	4723.2	2516.2
32.5°	257.1	659.7	2675.4	5260.3	7193.6	7954.0	8010.7	7190.0	5367.3	3090.8
35°	291.9	749.4	3187.8	5983.1	8189.1	9236.8	9233.1	8258.7	6130.4	3604.1
37.5°	294.6	839.0	3651.7	6722.4	9450.0	10623.0	10739.2	9665.0	7052.7	4239.1
40°	288.2	939.7	4239.1	7875.3	11721.9	13521.7	13624.2	12270.0	8902.8	5326.1
42.5°	295.5	1114.5	5192.6	10004.5	15494.4	18079.3	18276.9	16853.2	12303.8	7544.1
45°	334.0	1442.9	7190.0	13566.5	20871.8	24023.0	23957.1	21906.7	16261.2	10920.4
47.5°	461.2	2247.2	10150.9	17033.4	24308.5	27114.8	27171.5	24665.3	18570.6	13516.2
50°	709.1	3438.5	12638.7	18866.1	25786.2	28601.6	28548.6	25652.6	19448.1	14794.4
52.5°	922.3	4300.4	13886.8	19509.4	25975.6	29336.4	29332.7	25912.5	19584.4	14904.2
55°	975.4	4365.4	13896.8	19544.2	26400.2	30298.0	30418.8	26552.0	19761.0	14424.8
57.5°	954.3	3864.9	13316.7	19745.4	27155.9	31041.9	31048.3	27171.5	20209.3	14131.1
58°	936.0	3786.2	13199.6	19859.8	27285.9	31073.0	31057.4	27199.9	20574.4	14120.1
60°	833.6	3287.6	12743.0	20151.7	27092.8	30434.3	30288.9	26580.4	20520.4	14007.6
62.5°	655.1	2564.7	12293.8	19814.1	25023.1	27342.6	27403.0	23532.6	18706.9	13351.5
65°	521.5	1911.4	11356.8	17380.2	20605.5	22453.8	22678.9	19136.1	15614.3	11305.6
67.5°	415.4	1381.6	9526.9	13837.4	16305.1	18739.9	18903.7	16066.3	12097.1	8662.2
70°	337.6	934.2	6576.0	10119.8	13448.5	16186.1	16196.2	13346.9	9029.1	5675.7
72.5°	299.2	646.9	3817.3	7380.3	10904.8	13189.6	12923.3	10830.7	6939.3	3361.7
75°	258.9	429.1	1872.1	4511.8	6611.7	6656.5	6758.1	5024.2	3468.7	1598.5
77.5°	213.2	304.7	737.5	1232.5	1982.8	2538.2	2632.4	1994.7	1153.8	393.4
80°	146.4	144.6	198.6	377.9	567.3	710.9	663.4	513.3	301.9	151.0
82.5°	63.1	68.6	89.7	108.0	87.8	85.1	81.4	52.2	40.3	31.1
85°	20.1	18.3	19.2	19.2	15.6	11.9	11.9	5.5	0.0	0.0
87.5°	10.1	8.2	8.2	7.3	4.6	1.8	0.9	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°
53.1	0°	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
49.4	2.5°	48.5	48.5	46.7	44.8	43.9	42.1	41.2	40.3	39.3	38.4
53.1	5°	51.2	50.3	47.6	44.8	42.1	39.3	37.5	35.7	33.9	32.9
58.6	7.5°	55.8	54.0	48.5	43.9	40.3	36.6	34.8	32.0	30.2	27.4
65.0	10°	61.3	57.6	50.3	44.8	39.3	34.8	32.0	29.3	26.5	22.9
74.1	12.5°	68.6	62.2	53.1	43.9	37.5	32.0	29.3	25.6	22.9	20.1
86.0	15°	75.0	66.8	54.0	43.9	35.7	29.3	25.6	22.0	19.2	15.6
108.0	17.5°	84.2	70.5	53.1	41.2	32.9	25.6	22.0	19.2	14.6	9.1
160.1	20°	99.7	73.2	51.2	38.4	28.4	21.0	16.5	12.8	6.4	1.8
240.6	22.5°	124.4	80.5	49.4	34.8	24.7	16.5	11.0	4.6	0.0	0.0
366.0	25°	172.0	93.3	49.4	32.9	22.0	11.9	3.7	0.0	0.0	0.0
519.7	27.5°	228.7	110.7	49.4	28.4	17.4	6.4	0.0	0.0	0.0	0.0
708.2	30°	286.4	129.9	49.4	24.7	13.7	0.9	0.0	0.0	0.0	0.0
872.0	32.5°	341.3	146.4	50.3	21.0	9.1	0.0	0.0	0.0	0.0	0.0
1098.9	35°	397.1	149.1	49.4	18.3	5.5	0.0	0.0	0.0	0.0	0.0
1377.1	37.5°	468.5	143.7	46.7	16.5	2.7	0.0	0.0	0.0	0.0	0.0
1811.7	40°	576.4	146.4	43.9	15.6	0.9	0.0	0.0	0.0	0.0	0.0
2586.7	42.5°	775.9	158.3	40.3	15.6	0.0	0.0	0.0	0.0	0.0	0.0
4120.2	45°	1341.4	212.3	36.6	16.5	0.0	0.0	0.0	0.0	0.0	0.0
6185.3	47.5°	2218.8	381.6	35.7	16.5	0.0	0.0	0.0	0.0	0.0	0.0
7450.7	50°	2831.9	480.4	37.5	17.4	0.0	0.0	0.0	0.0	0.0	0.0
7609.0	52.5°	2827.3	535.3	39.3	18.3	3.7	0.0	0.0	0.0	0.0	0.0
7013.4	55°	2513.5	545.3	42.1	20.1	11.9	0.0	0.0	0.0	0.0	0.0
6027.0	57.5°	2100.8	497.8	48.5	24.7	22.0	0.0	0.0	0.0	0.0	0.0
5872.4	58°	2027.6	475.8	50.3	25.6	23.8	0.0	0.0	0.0	0.0	0.0
5093.7	60°	1661.6	388.0	64.0	32.0	32.0	0.0	0.0	0.0	0.0	0.0
4176.0	62.5°	1147.4	338.5	73.2	41.2	32.9	0.0	0.0	0.0	0.0	0.0
3078.9	65°	811.6	305.6	79.6	43.9	26.5	0.0	0.0	0.0	0.0	0.0
2187.7	67.5°	606.6	281.8	87.8	44.8	13.7	0.0	0.0	0.0	0.0	0.0
1372.5	70°	464.8	264.4	108.0	47.6	3.7	0.0	0.0	0.0	0.0	0.0
818.0	72.5°	378.8	244.3	130.8	49.4	0.0	0.0	0.0	0.0	0.0	0.0
490.4	75°	313.8	220.5	126.3	54.0	0.0	0.0	0.0	0.0	0.0	0.0
261.7	77.5°	208.6	171.1	115.3	54.0	0.0	0.0	0.0	0.0	0.0	0.0
93.3	80°	73.2	67.7	89.7	47.6	0.0	0.0	0.0	0.0	0.0	0.0
19.2	82.5°	11.0	9.1	12.8	16.5	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°
53.1	0°	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
37.5	2.5°	37.5	37.5	36.6	37.5	37.5	39.3	43.9	50.3	57.6	60.4
32.0	5°	31.1	30.2	29.3	29.3	29.3	32.0	35.7	43.0	51.2	54.9
26.5	7.5°	25.6	24.7	23.8	22.9	22.9	24.7	29.3	37.5	45.7	49.4
22.0	10°	21.0	19.2	18.3	17.4	17.4	19.2	23.8	32.0	41.2	44.8
18.3	12.5°	17.4	14.6	12.8	11.9	11.0	13.7	18.3	25.6	35.7	40.3
13.7	15°	11.9	9.1	6.4	5.5	4.6	7.3	11.9	20.1	30.2	35.7
7.3	17.5°	6.4	2.7	0.9	0.0	0.0	1.8	5.5	14.6	24.7	29.3
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	18.3	22.9
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	11.0	15.6
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	8.2
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
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	2.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	7.3
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°
53.1	0°	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
63.1	2.5°	65.0	64.0	62.2	60.4	60.4	60.4	63.1	65.9	68.6	68.6
56.7	5°	60.4	60.4	59.5	57.6	57.6	58.6	62.2	66.8	70.5	71.4
52.2	7.5°	55.8	57.6	55.8	54.9	55.8	56.7	60.4	65.9	71.4	73.2
48.5	10°	53.1	54.0	54.0	53.1	53.1	54.9	58.6	65.9	73.2	75.9
43.9	12.5°	49.4	51.2	50.3	50.3	50.3	52.2	56.7	65.0	75.0	78.7
39.3	15°	45.7	48.5	48.5	47.6	47.6	48.5	54.9	64.0	77.8	84.2
33.9	17.5°	42.1	44.8	45.7	43.9	43.9	45.7	52.2	64.0	79.6	90.6
27.4	20°	34.8	39.3	42.1	39.3	39.3	41.2	47.6	60.4	80.5	97.0
20.1	22.5°	27.4	32.0	35.7	34.8	34.8	35.7	43.9	57.6	81.4	108.0
11.9	25°	20.1	24.7	27.4	29.3	29.3	32.0	40.3	55.8	85.1	130.8
5.5	27.5°	11.9	17.4	21.0	22.9	23.8	27.4	37.5	54.0	91.5	163.8
0.0	30°	5.5	10.1	14.6	18.3	18.3	24.7	34.8	52.2	99.7	211.4
0.0	32.5°	0.0	4.6	7.3	12.8	13.7	20.1	32.0	50.3	111.6	257.1
0.0	35°	0.0	0.0	3.7	10.1	10.1	16.5	29.3	48.5	129.9	291.9
0.0	37.5°	0.0	0.0	0.0	7.3	8.2	14.6	28.4	47.6	133.6	294.6
0.0	40°	0.0	0.0	0.0	5.5	6.4	13.7	28.4	48.5	120.8	288.2
0.0	42.5°	0.0	0.0	0.0	3.7	4.6	13.7	28.4	50.3	108.9	295.5
0.0	45°	0.0	0.0	0.0	2.7	3.7	14.6	27.4	49.4	102.5	334.0
0.0	47.5°	0.0	0.0	0.0	3.7	5.5	14.6	26.5	48.5	103.4	461.2
0.0	50°	0.0	0.0	0.0	4.6	6.4	14.6	27.4	46.7	113.5	709.1
0.0	52.5°	0.0	0.0	0.0	3.7	5.5	16.5	30.2	45.7	123.5	922.3
0.0	55°	0.0	0.0	0.0	0.9	2.7	21.0	32.9	45.7	139.1	975.4
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	23.8	37.5	48.5	164.7	954.3
0.0	58°	0.0	0.0	0.0	0.0	0.0	23.8	38.4	48.5	166.5	936.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	23.8	42.1	54.0	179.3	833.6
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	20.1	50.3	67.7	186.7	655.1
0.0	65°	0.0	0.0	0.0	0.0	0.0	16.5	59.5	74.1	192.1	521.5
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	15.6	61.3	75.0	194.9	415.4
0.0	70°	0.0	0.0	0.0	0.0	0.0	16.5	60.4	80.5	204.0	337.6
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	18.3	54.9	88.8	204.0	299.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	19.2	51.2	99.7	185.7	258.9
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	18.3	50.3	116.2	165.6	213.2
0.0	80°	1.8	2.7	2.7	1.8	1.8	15.6	49.4	118.0	140.9	146.4
0.9	82.5°	5.5	7.3	6.4	4.6	4.6	13.7	43.9	98.8	73.2	63.1
5.5	85°	10.1	11.9	11.9	10.1	10.1	12.8	27.4	35.7	24.7	20.1
10.1	87.5°	13.7	15.6	15.6	13.7	13.7	12.8	11.9	11.0	10.1	10.1
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: SP1-2407-184-12

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-850-U-5WQ

Data in this report applies to families of products including GSS-SB1A-850-U-5WQ

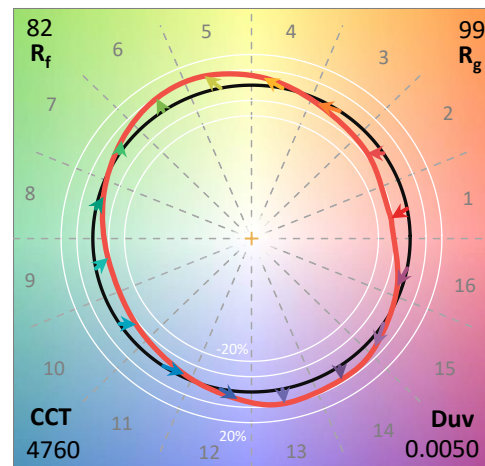
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-12
 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-850-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K): 4760
 CIE u' : 0.2107
 CIE v' : 0.4939
 Duv: 0.0050
 CIE x: 0.3537
 CIE y: 0.3685
 CIE z: 0.2779
 Peak Wavelength (nm): 443
 Dominant Wavelength (nm): 571
 Purity: 16.69598
 R_f: 82
 R_g: 99.4

CRI (Ra): 81.1
 R1: 79.8
 R2: 83.5
 R3: 87.9
 R4: 83.1
 R5: 80.5
 R6: 79.1
 R7: 86.1
 R8: 69.0
 R9: 8.7
 R10: 62.4
 R11: 83.8
 R12: 63.0
 R13: 79.9
 R14: 93.3
 R15: 72.7



Test Conditions

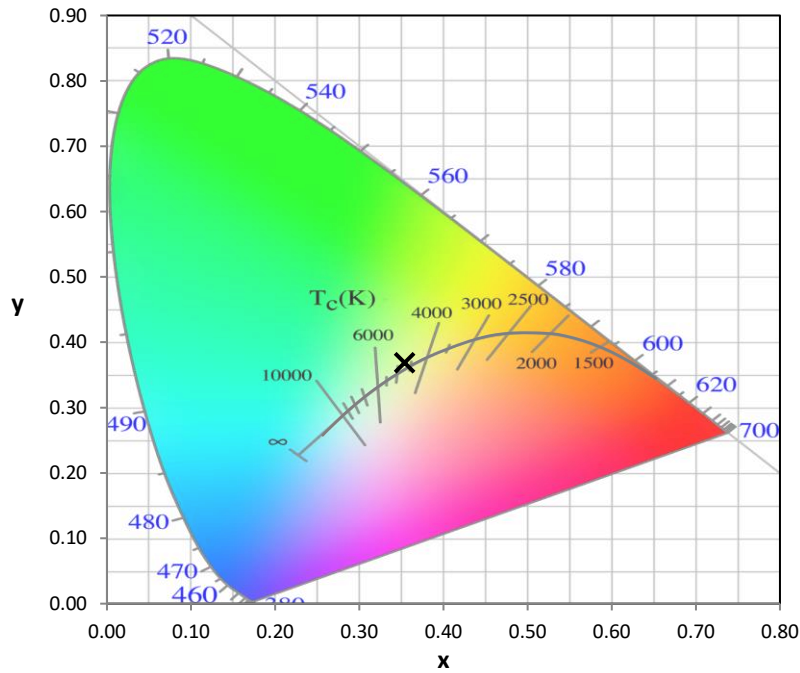
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-12

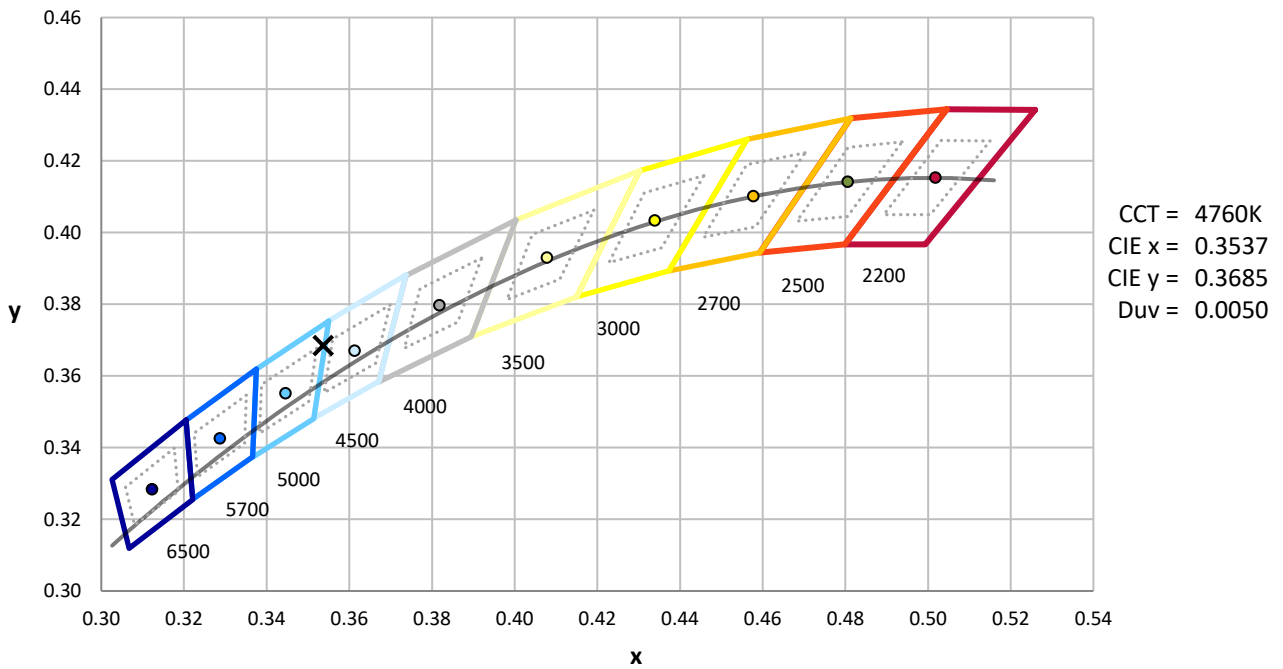
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-12

CIE 1931 Chromaticity Diagram



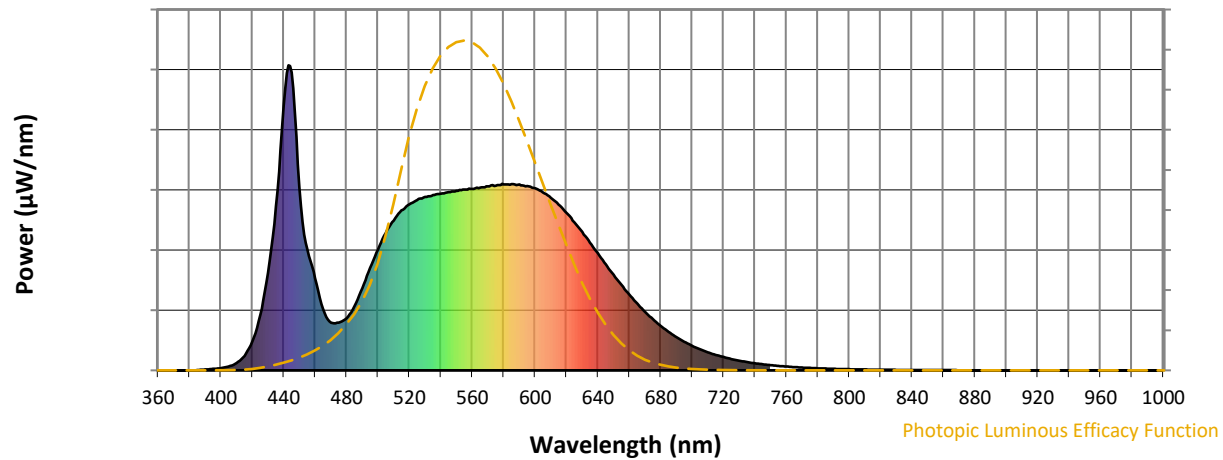
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-12

Photopic Flux vs. Wavelength

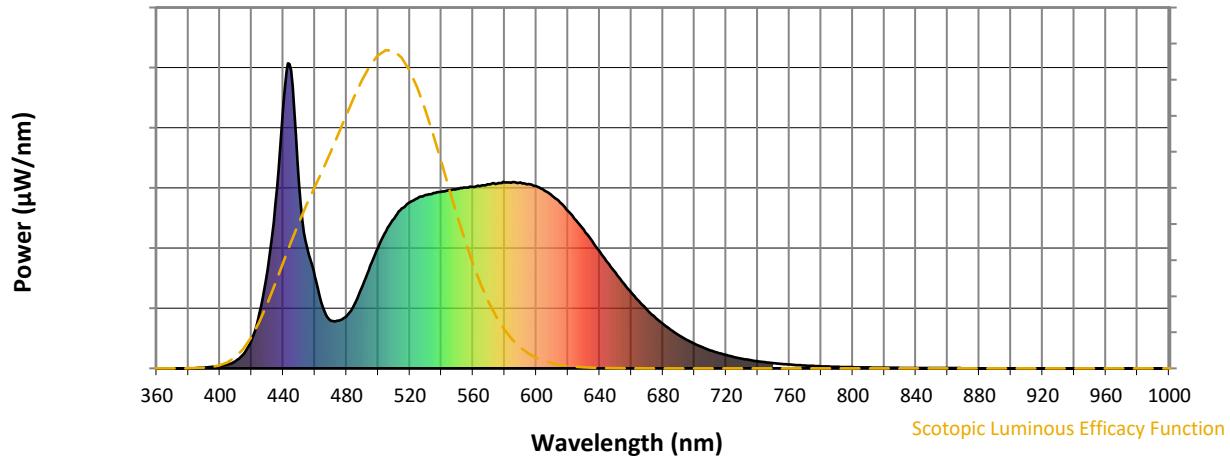


Photopic Lumens: NR

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	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-12

Scotopic Flux vs. Wavelength



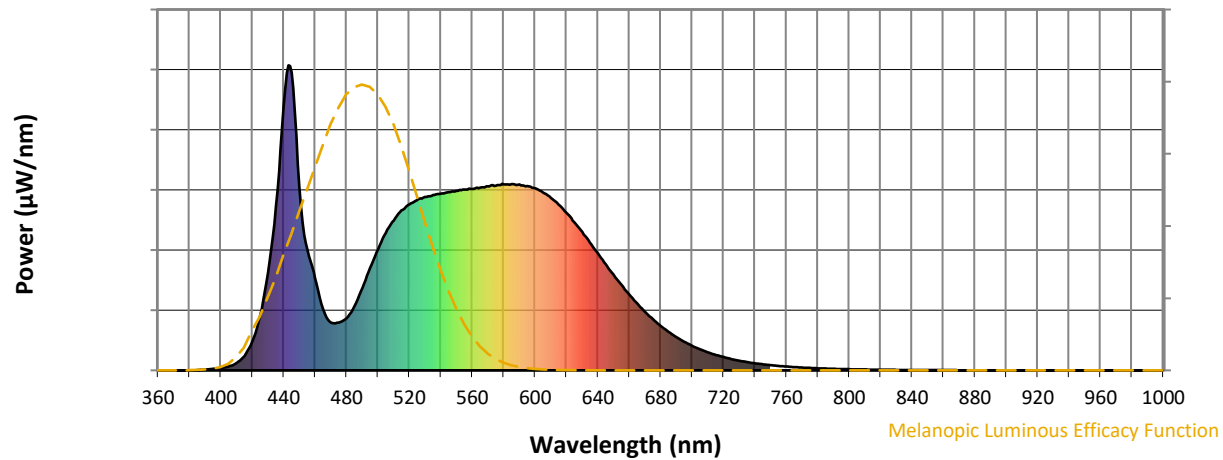
Scotopic Lumens: NR

S/P: 1.83

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	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.74

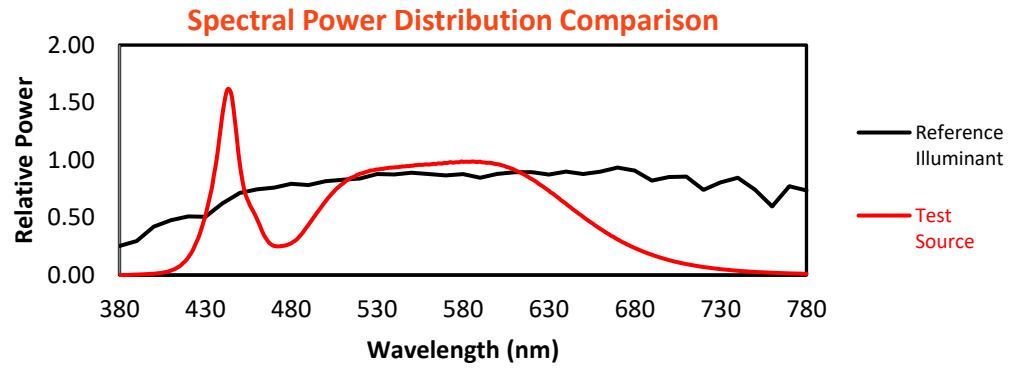
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-12

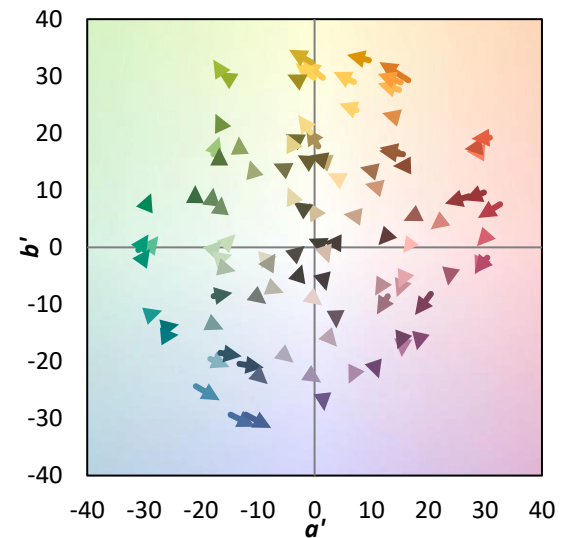
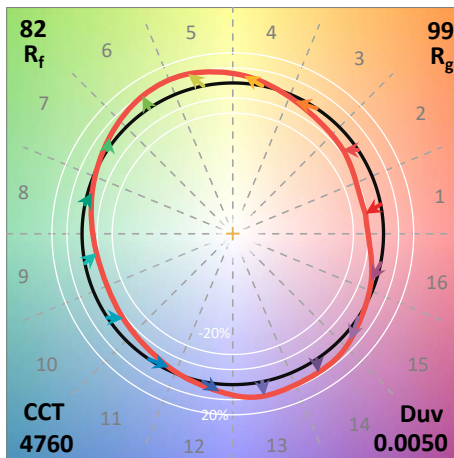
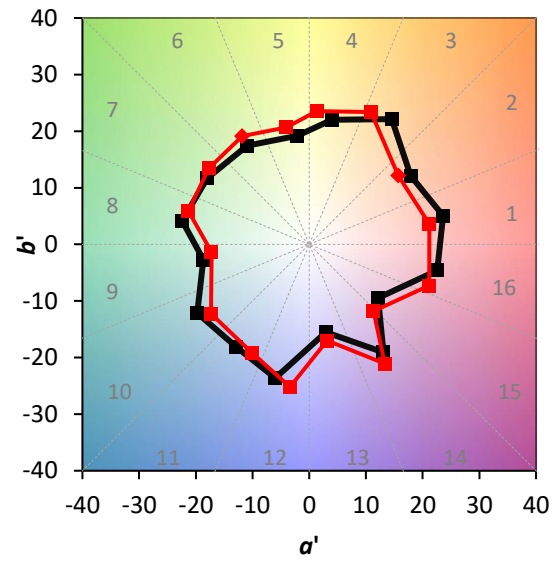
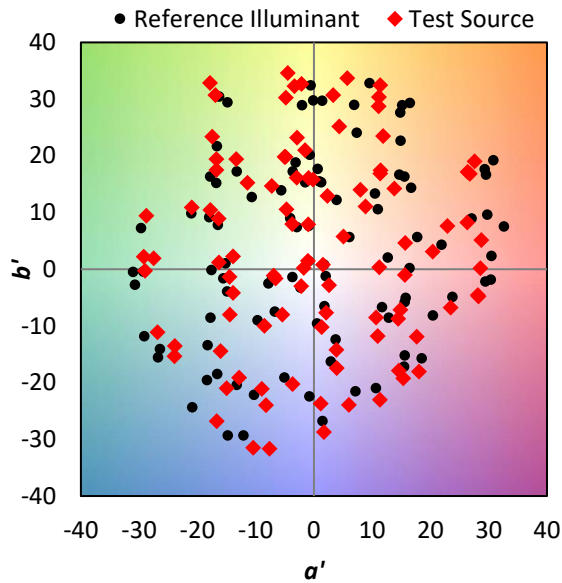
TM-30-18

Summary

$R_f = 82$
 $R_g = 99.4$
 $\text{CIE } R_a = 81.1$
 $R_9 = 8.7$

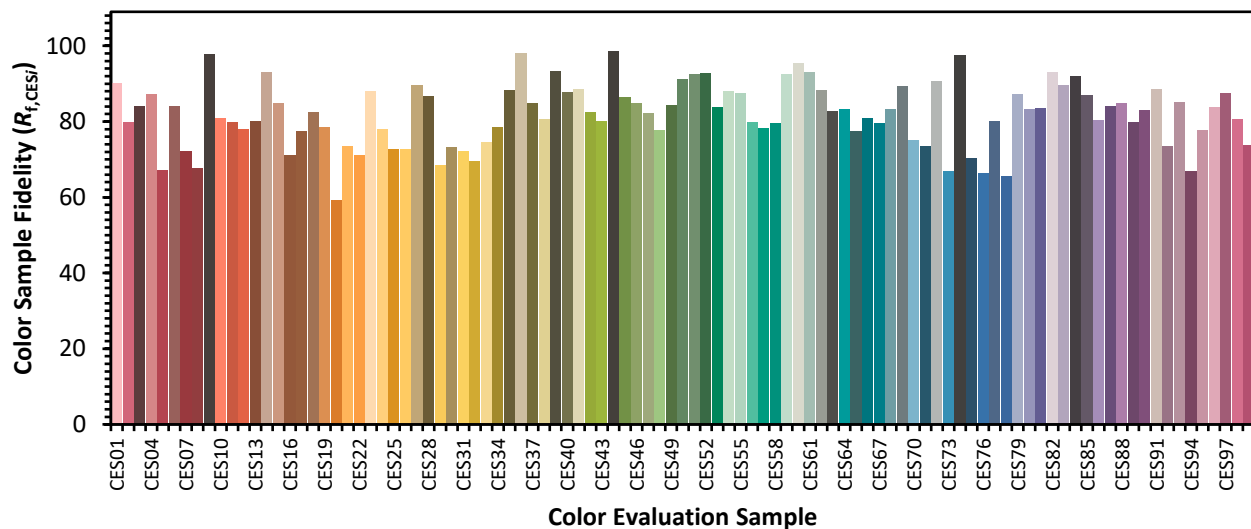


Color Vector Graphics

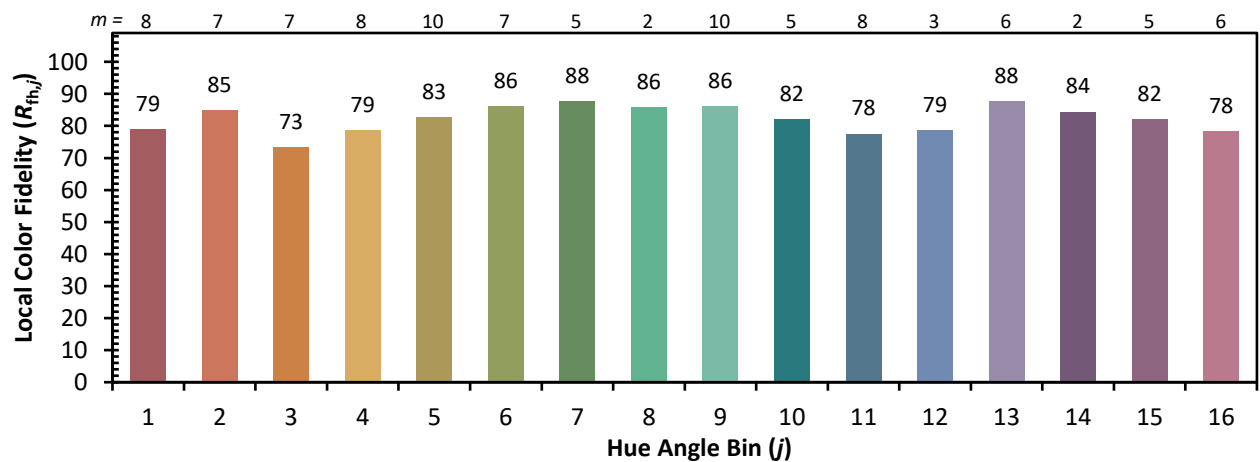
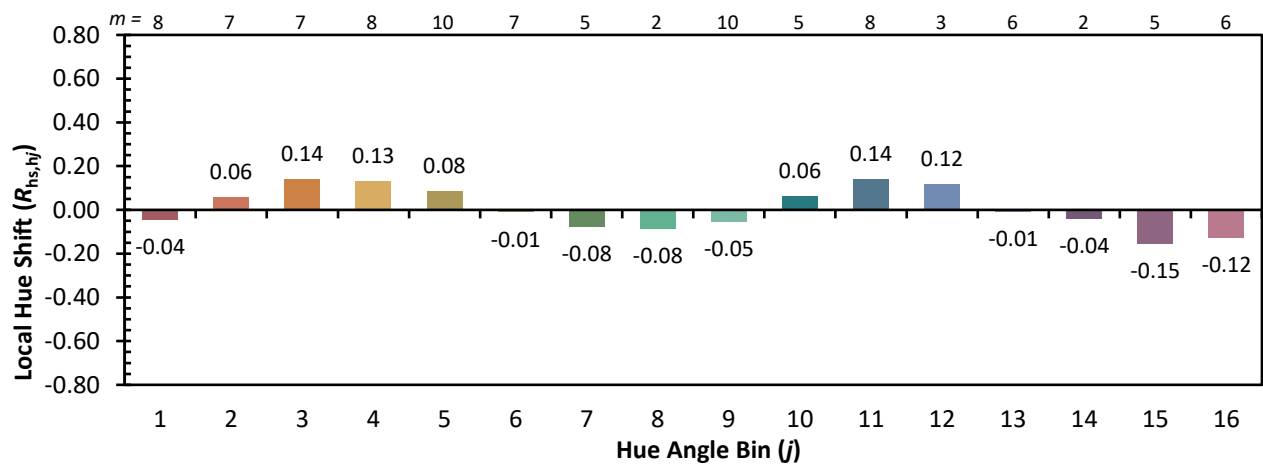
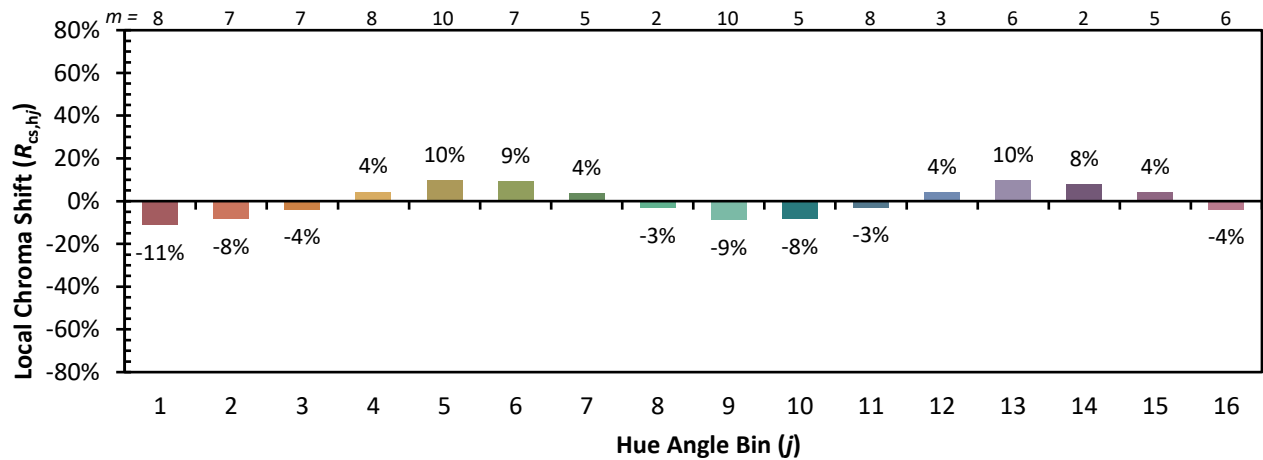


Individual Sample Fidelity Index ($R_{f,i}$)

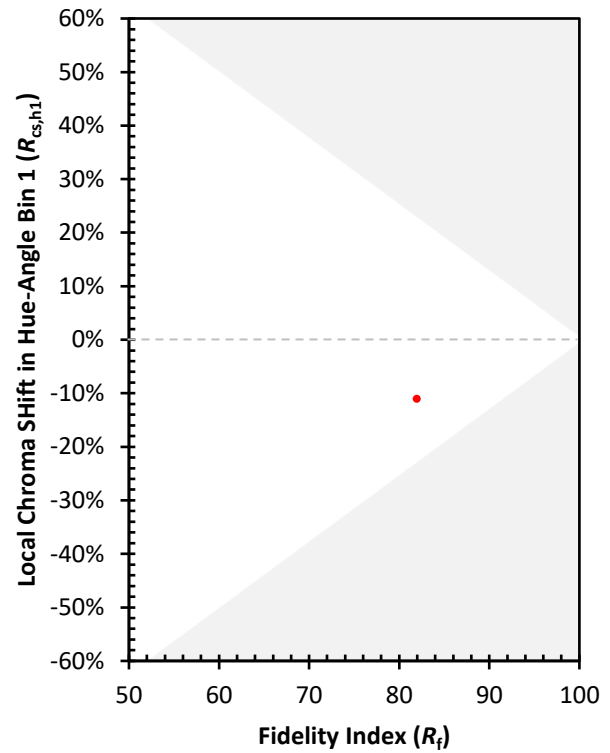
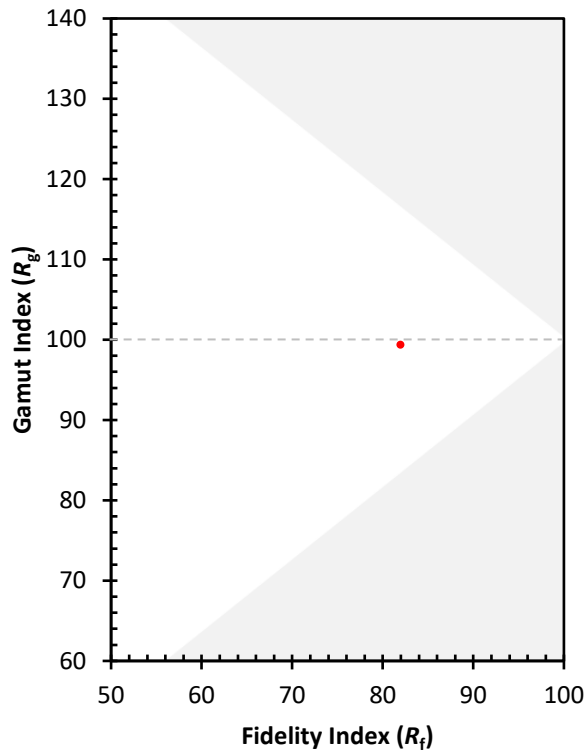
CES01 = 85	CES26 = 73	CES51 = 92	CES76 = 66
CES02 = 60	CES27 = 90	CES52 = 93	CES77 = 80
CES03 = 30	CES28 = 87	CES53 = 84	CES78 = 65
CES04 = 69	CES29 = 69	CES54 = 88	CES79 = 87
CES05 = 47	CES30 = 73	CES55 = 88	CES80 = 83
CES06 = 50	CES31 = 72	CES56 = 80	CES81 = 84
CES07 = 40	CES32 = 69	CES57 = 78	CES82 = 93
CES08 = 39	CES33 = 75	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 78	CES59 = 93	CES84 = 92
CES10 = 73	CES35 = 88	CES60 = 95	CES85 = 87
CES11 = 56	CES36 = 98	CES61 = 93	CES86 = 80
CES12 = 62	CES37 = 85	CES62 = 88	CES87 = 84
CES13 = 42	CES38 = 81	CES63 = 83	CES88 = 85
CES14 = 74	CES39 = 93	CES64 = 83	CES89 = 80
CES15 = 71	CES40 = 88	CES65 = 77	CES90 = 83
CES16 = 46	CES41 = 89	CES66 = 81	CES91 = 89
CES17 = 48	CES42 = 82	CES67 = 80	CES92 = 73
CES18 = 55	CES43 = 80	CES68 = 83	CES93 = 85
CES19 = 70	CES44 = 99	CES69 = 89	CES94 = 67
CES20 = 64	CES45 = 87	CES70 = 75	CES95 = 78
CES21 = 85	CES46 = 85	CES71 = 73	CES96 = 84
CES22 = 77	CES47 = 82	CES72 = 91	CES97 = 87
CES23 = 91	CES48 = 78	CES73 = 67	CES98 = 81
CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 74
CES25 = 71	CES50 = 91	CES75 = 70	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)