

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: P1049661

Luminaire Tested: **GALN-SA6A-750-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049661
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-750-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 6xLight Square PACKAGE
70CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

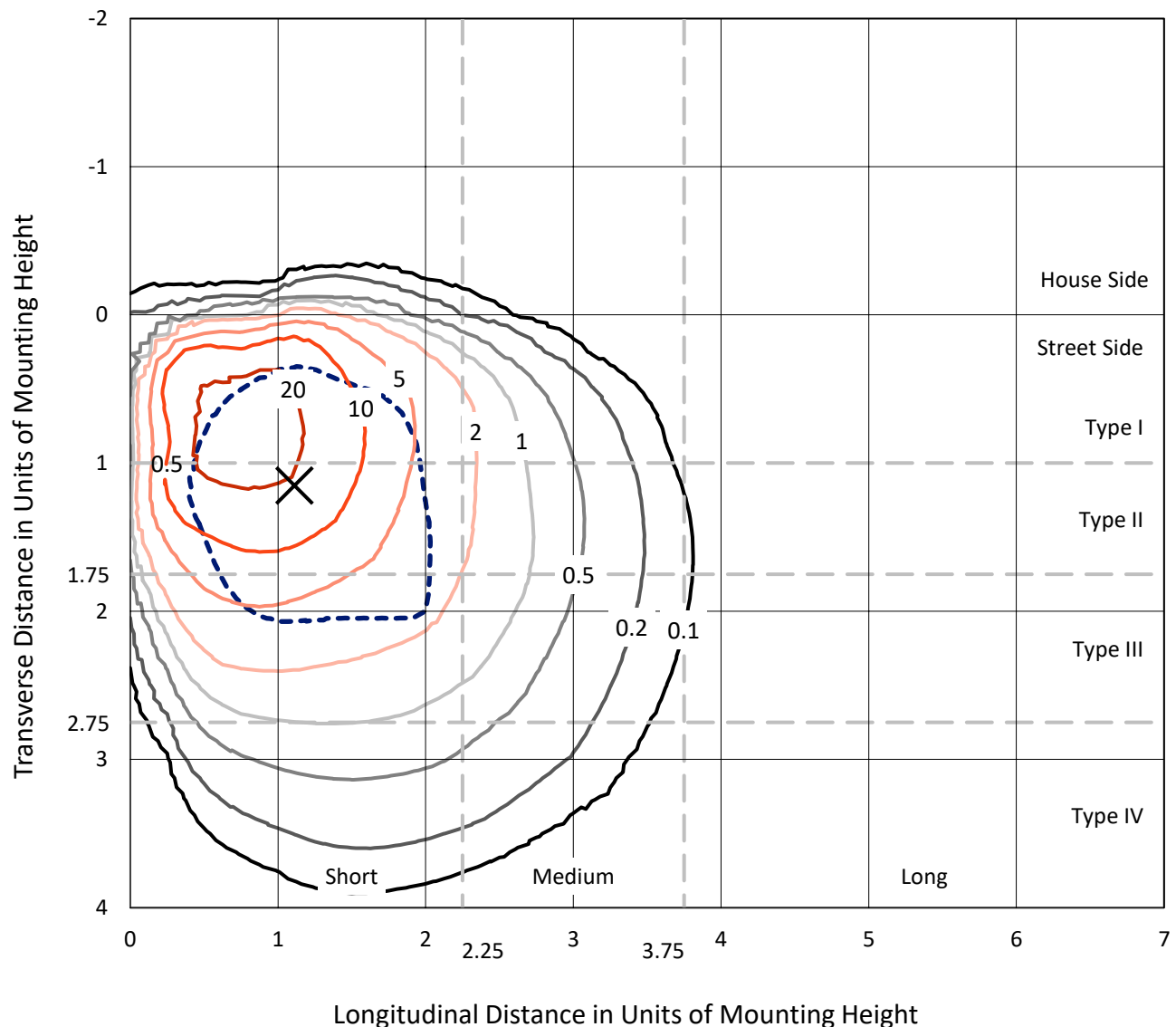
Lumens per Lamp: N/A
Luminaire Lumens: 19530.3 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 162.9
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

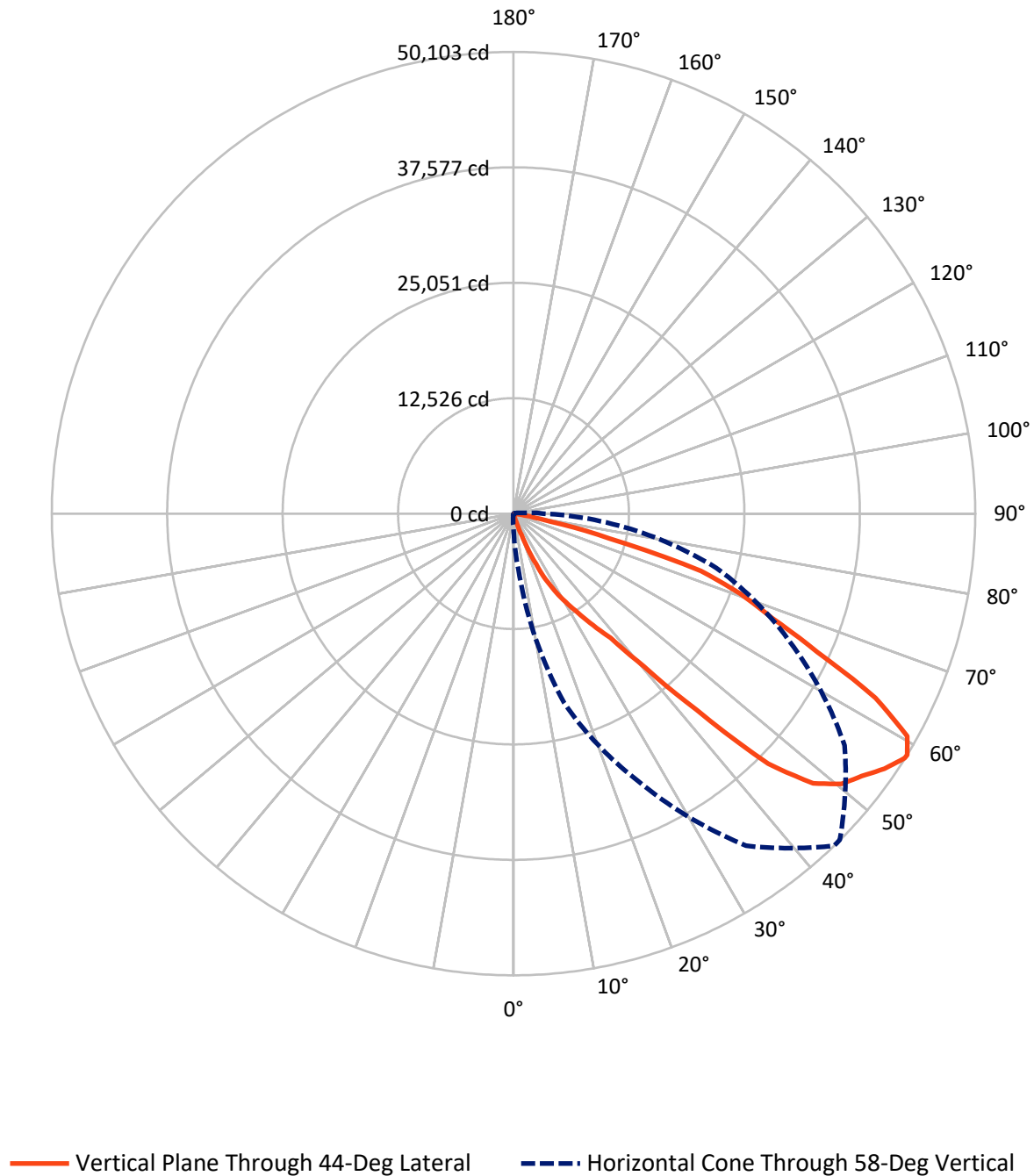
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 34 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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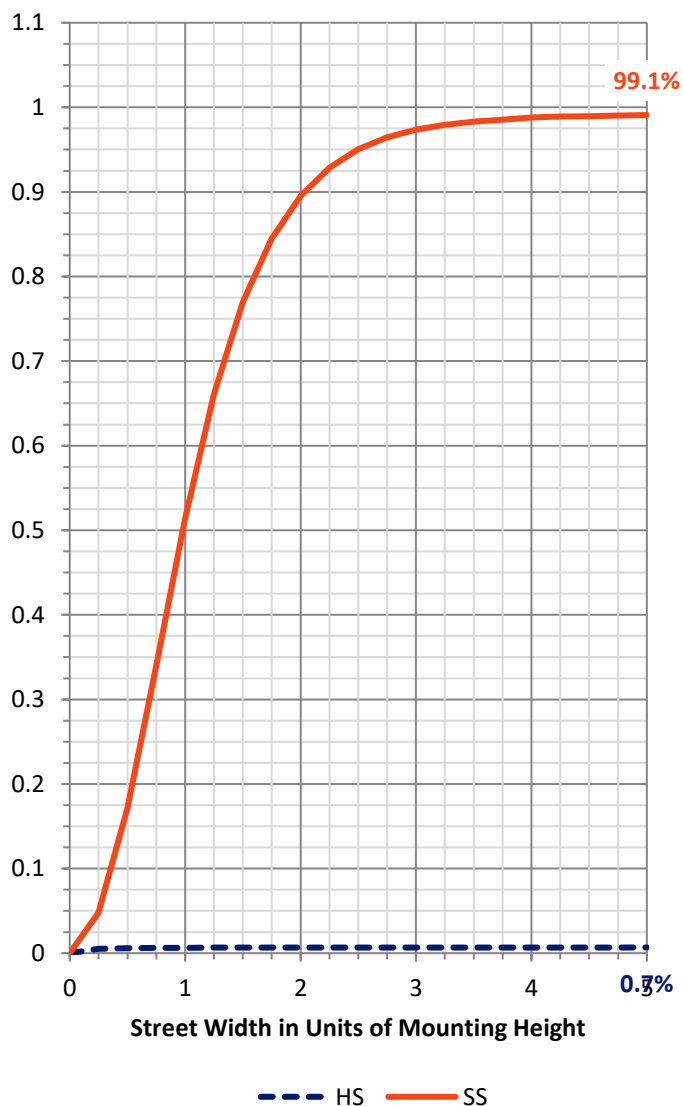
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	133.4	0.0	133.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	19396.9	0.0	19396.9
	% Fixture	99.3	0.0	99.3
Total	Lumens	19530.3	0.0	19530.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.6	0.0
10°-20°	42.8	0.2
20°-30°	462.7	2.4
30°-40°	1368.3	7.0
40°-50°	4078.2	20.9
50°-60°	6471.2	33.1
60°-70°	5397.7	27.6
70°-80°	1664.7	8.5
80°-90°	37.0	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°	19530.3	100.0
0°-180°	19530.3	100.0



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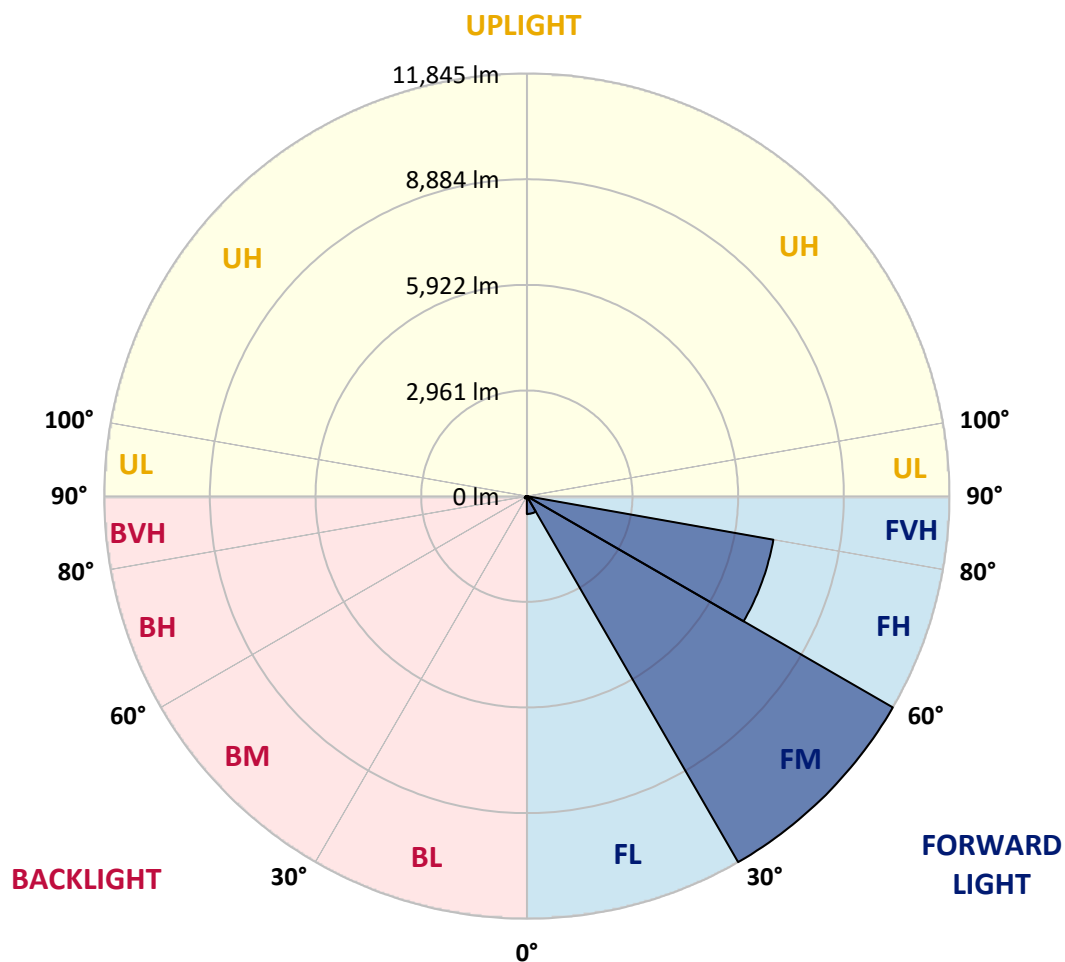
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	500.1	2.6			
FM	(30°-60°)	11844.7	60.6			
FH	(60°-80°)	7016.9	35.9			G3/7500
FVH	(80°-90°)	35.2	0.2			G1/100
BL	(0°-30°)	13.0	0.1	B0/110		
BM	(30°-60°)	73.0	0.4	B0/220		
BH	(60°-80°)	45.5	0.2	B0/110		G0/110
BVH	(80°-90°)	1.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
2.5°	110.7	110.7	106.2	100.3	94.4	88.5	87.0	84.1	82.6	81.1
5°	115.1	115.1	113.6	109.2	103.3	98.8	98.8	94.4	91.5	88.5
7.5°	118.0	119.5	122.5	121.0	118.0	113.6	113.6	110.7	106.2	98.8
10°	122.5	126.9	132.8	135.7	137.2	137.2	135.7	134.3	126.9	116.6
12.5°	126.9	135.7	150.5	165.2	174.1	185.9	184.4	181.5	162.3	140.2
15°	135.7	149.0	180.0	222.8	289.2	330.5	346.7	332.0	268.5	188.8
17.5°	146.1	168.2	261.1	466.2	764.2	905.9	991.4	922.1	610.8	358.5
20°	156.4	205.1	485.4	1208.3	1982.9	2446.1	2574.5	2373.8	1524.0	683.1
22.5°	174.1	287.7	984.1	2497.8	4272.6	4967.5	5098.8	4457.0	2878.4	1348.5
25°	211.0	417.5	1696.6	4070.5	6376.5	7549.4	7494.8	6653.8	4669.5	2154.0
27.5°	264.1	607.8	2565.6	5783.4	8391.8	9426.0	9549.9	8509.8	6224.5	3167.6
30°	340.8	842.4	3498.0	7155.4	10007.3	11125.6	11146.2	10070.7	7615.7	4057.2
32.5°	414.6	1063.7	4313.9	8481.8	11599.2	12825.2	12916.7	11593.3	8654.4	4983.7
35°	470.6	1208.3	5140.1	9647.3	13204.4	14893.6	14887.7	13316.5	9884.8	5811.4
37.5°	475.1	1352.9	5888.1	10839.4	15237.4	17128.8	17316.1	15584.1	11372.0	6835.3
40°	464.7	1515.2	6835.3	12698.3	18900.7	21802.7	21967.9	19784.4	14355.1	8588.0
42.5°	476.5	1797.0	8372.6	16131.4	24983.5	29151.4	29470.1	27174.4	19839.0	12164.2
45°	538.5	2326.6	11593.3	21875.0	33654.1	38735.2	38629.0	35322.8	26219.9	17608.3
47.5°	743.6	3623.5	16367.5	27465.1	39195.5	43720.4	43811.9	39770.9	29943.6	21793.8
50°	1143.4	5544.4	20379.0	30420.2	41578.2	46117.9	46032.3	41362.8	31358.5	23854.9
52.5°	1487.1	6934.1	22391.3	31457.4	41883.6	47302.6	47296.7	41781.8	31578.3	24031.9
55°	1572.7	7038.9	22407.6	31513.4	42568.2	48853.2	49047.9	42813.1	31863.1	23258.8
57.5°	1538.8	6231.9	21472.2	31838.0	43786.8	50052.6	50063.0	43811.9	32586.0	22785.3
58°	1509.3	6105.0	21283.4	32022.4	43996.3	50102.8	50077.7	43857.6	33174.7	22767.6
60°	1344.0	5300.9	20547.2	32493.0	43685.0	49073.0	48838.4	42858.8	33087.6	22586.1
62.5°	1056.3	4135.4	19822.8	31948.6	40347.8	44087.8	44185.2	37944.5	30163.5	21528.3
65°	840.9	3082.0	18312.0	28024.2	33224.8	36205.0	36568.0	30855.4	25176.8	18229.4
67.5°	669.8	2227.8	15361.3	22311.7	26290.7	30216.6	30480.7	25905.6	19505.6	13967.1
70°	544.4	1506.3	10603.3	16317.3	21684.7	26098.9	26115.1	21520.9	14558.7	9151.6
72.5°	482.4	1043.1	6155.1	11900.1	17583.2	21267.1	20837.8	17463.7	11189.0	5420.4
75°	417.5	691.9	3018.6	7274.9	10660.9	10733.1	10896.9	8101.1	5593.0	2577.4
77.5°	343.8	491.3	1189.1	1987.3	3197.1	4092.6	4244.6	3216.3	1860.4	634.4
80°	236.1	233.1	320.2	609.3	914.7	1146.3	1069.6	827.7	486.9	243.4
82.5°	101.8	110.7	144.6	174.1	141.6	137.2	131.3	84.1	64.9	50.2
85°	32.5	29.5	31.0	31.0	25.1	19.2	19.2	8.9	0.0	0.0
87.5°	16.2	13.3	13.3	11.8	7.4	3.0	1.5	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°
85.6	0°	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
79.7	2.5°	78.2	78.2	75.2	72.3	70.8	67.9	66.4	64.9	63.4	62.0
85.6	5°	82.6	81.1	76.7	72.3	67.9	63.4	60.5	57.5	54.6	53.1
94.4	7.5°	90.0	87.0	78.2	70.8	64.9	59.0	56.1	51.6	48.7	44.3
104.7	10°	98.8	92.9	81.1	72.3	63.4	56.1	51.6	47.2	42.8	36.9
119.5	12.5°	110.7	100.3	85.6	70.8	60.5	51.6	47.2	41.3	36.9	32.5
138.7	15°	121.0	107.7	87.0	70.8	57.5	47.2	41.3	35.4	31.0	25.1
174.1	17.5°	135.7	113.6	85.6	66.4	53.1	41.3	35.4	31.0	23.6	14.8
258.2	20°	160.8	118.0	82.6	62.0	45.7	33.9	26.6	20.7	10.3	3.0
388.0	22.5°	200.6	129.8	79.7	56.1	39.8	26.6	17.7	7.4	0.0	0.0
590.1	25°	277.4	150.5	79.7	53.1	35.4	19.2	5.9	0.0	0.0	0.0
838.0	27.5°	368.8	178.5	79.7	45.7	28.0	10.3	0.0	0.0	0.0	0.0
1141.9	30°	461.8	209.5	79.7	39.8	22.1	1.5	0.0	0.0	0.0	0.0
1406.0	32.5°	550.3	236.1	81.1	33.9	14.8	0.0	0.0	0.0	0.0	0.0
1771.9	35°	640.3	240.5	79.7	29.5	8.9	0.0	0.0	0.0	0.0	0.0
2220.4	37.5°	755.4	231.6	75.2	26.6	4.4	0.0	0.0	0.0	0.0	0.0
2921.2	40°	929.5	236.1	70.8	25.1	1.5	0.0	0.0	0.0	0.0	0.0
4170.8	42.5°	1251.1	255.2	64.9	25.1	0.0	0.0	0.0	0.0	0.0	0.0
6643.5	45°	2162.9	342.3	59.0	26.6	0.0	0.0	0.0	0.0	0.0	0.0
9973.3	47.5°	3577.7	615.2	57.5	26.6	0.0	0.0	0.0	0.0	0.0	0.0
12013.8	50°	4566.2	774.6	60.5	28.0	0.0	0.0	0.0	0.0	0.0	0.0
12269.0	52.5°	4558.8	863.1	63.4	29.5	5.9	0.0	0.0	0.0	0.0	0.0
11308.5	55°	4052.8	879.3	67.9	32.5	19.2	0.0	0.0	0.0	0.0	0.0
9718.1	57.5°	3387.4	802.6	78.2	39.8	35.4	0.0	0.0	0.0	0.0	0.0
9468.8	58°	3269.4	767.2	81.1	41.3	38.4	0.0	0.0	0.0	0.0	0.0
8213.3	60°	2679.2	625.5	103.3	51.6	51.6	0.0	0.0	0.0	0.0	0.0
6733.5	62.5°	1850.1	545.9	118.0	66.4	53.1	0.0	0.0	0.0	0.0	0.0
4964.5	65°	1308.6	492.8	128.4	70.8	42.8	0.0	0.0	0.0	0.0	0.0
3527.6	67.5°	978.2	454.4	141.6	72.3	22.1	0.0	0.0	0.0	0.0	0.0
2213.0	70°	749.5	426.4	174.1	76.7	5.9	0.0	0.0	0.0	0.0	0.0
1319.0	72.5°	610.8	393.9	211.0	79.7	0.0	0.0	0.0	0.0	0.0	0.0
790.8	75°	506.0	355.6	203.6	87.0	0.0	0.0	0.0	0.0	0.0	0.0
421.9	77.5°	336.4	275.9	185.9	87.0	0.0	0.0	0.0	0.0	0.0	0.0
150.5	80°	118.0	109.2	144.6	76.7	0.0	0.0	0.0	0.0	0.0	0.0
31.0	82.5°	17.7	14.8	20.7	26.6	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°
85.6	0°	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
60.5	2.5°	60.5	60.5	59.0	60.5	60.5	63.4	70.8	81.1	92.9	97.4
51.6	5°	50.2	48.7	47.2	47.2	47.2	51.6	57.5	69.3	82.6	88.5
42.8	7.5°	41.3	39.8	38.4	36.9	36.9	39.8	47.2	60.5	73.8	79.7
35.4	10°	33.9	31.0	29.5	28.0	28.0	31.0	38.4	51.6	66.4	72.3
29.5	12.5°	28.0	23.6	20.7	19.2	17.7	22.1	29.5	41.3	57.5	64.9
22.1	15°	19.2	14.8	10.3	8.9	7.4	11.8	19.2	32.5	48.7	57.5
11.8	17.5°	10.3	4.4	1.5	0.0	0.0	3.0	8.9	23.6	39.8	47.2
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8	29.5	36.9
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	17.7	25.1
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	13.3
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
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	4.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	11.8
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°
85.6	0°	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
101.8	2.5°	104.7	103.3	100.3	97.4	97.4	97.4	101.8	106.2	110.7	110.7
91.5	5°	97.4	97.4	95.9	92.9	92.9	94.4	100.3	107.7	113.6	115.1
84.1	7.5°	90.0	92.9	90.0	88.5	90.0	91.5	97.4	106.2	115.1	118.0
78.2	10°	85.6	87.0	87.0	85.6	85.6	88.5	94.4	106.2	118.0	122.5
70.8	12.5°	79.7	82.6	81.1	81.1	81.1	84.1	91.5	104.7	121.0	126.9
63.4	15°	73.8	78.2	78.2	76.7	76.7	78.2	88.5	103.3	125.4	135.7
54.6	17.5°	67.9	72.3	73.8	70.8	70.8	73.8	84.1	103.3	128.4	146.1
44.3	20°	56.1	63.4	67.9	63.4	63.4	66.4	76.7	97.4	129.8	156.4
32.5	22.5°	44.3	51.6	57.5	56.1	56.1	57.5	70.8	92.9	131.3	174.1
19.2	25°	32.5	39.8	44.3	47.2	47.2	51.6	64.9	90.0	137.2	211.0
8.9	27.5°	19.2	28.0	33.9	36.9	38.4	44.3	60.5	87.0	147.5	264.1
0.0	30°	8.9	16.2	23.6	29.5	29.5	39.8	56.1	84.1	160.8	340.8
0.0	32.5°	0.0	7.4	11.8	20.7	22.1	32.5	51.6	81.1	180.0	414.6
0.0	35°	0.0	0.0	5.9	16.2	16.2	26.6	47.2	78.2	209.5	470.6
0.0	37.5°	0.0	0.0	0.0	11.8	13.3	23.6	45.7	76.7	215.4	475.1
0.0	40°	0.0	0.0	0.0	8.9	10.3	22.1	45.7	78.2	194.7	464.7
0.0	42.5°	0.0	0.0	0.0	5.9	7.4	22.1	45.7	81.1	175.6	476.5
0.0	45°	0.0	0.0	0.0	4.4	5.9	23.6	44.3	79.7	165.2	538.5
0.0	47.5°	0.0	0.0	0.0	5.9	8.9	23.6	42.8	78.2	166.7	743.6
0.0	50°	0.0	0.0	0.0	7.4	10.3	23.6	44.3	75.2	182.9	1143.4
0.0	52.5°	0.0	0.0	0.0	5.9	8.9	26.6	48.7	73.8	199.2	1487.1
0.0	55°	0.0	0.0	0.0	1.5	4.4	33.9	53.1	73.8	224.3	1572.7
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	38.4	60.5	78.2	265.6	1538.8
0.0	58°	0.0	0.0	0.0	0.0	0.0	38.4	62.0	78.2	268.5	1509.3
0.0	60°	0.0	0.0	0.0	0.0	0.0	38.4	67.9	87.0	289.2	1344.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	32.5	81.1	109.2	301.0	1056.3
0.0	65°	0.0	0.0	0.0	0.0	0.0	26.6	95.9	119.5	309.8	840.9
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	25.1	98.8	121.0	314.2	669.8
0.0	70°	0.0	0.0	0.0	0.0	0.0	26.6	97.4	129.8	329.0	544.4
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	29.5	88.5	143.1	329.0	482.4
0.0	75°	0.0	0.0	0.0	0.0	0.0	31.0	82.6	160.8	299.5	417.5
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	29.5	81.1	187.4	267.0	343.8
0.0	80°	3.0	4.4	4.4	3.0	3.0	25.1	79.7	190.3	227.2	236.1
1.5	82.5°	8.9	11.8	10.3	7.4	7.4	22.1	70.8	159.3	118.0	101.8
8.9	85°	16.2	19.2	19.2	16.2	16.2	20.7	44.3	57.5	39.8	32.5
16.2	87.5°	22.1	25.1	25.1	22.1	22.1	20.7	19.2	17.7	16.2	16.2
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: SP1-2407-184-6

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-750-U-5WQ

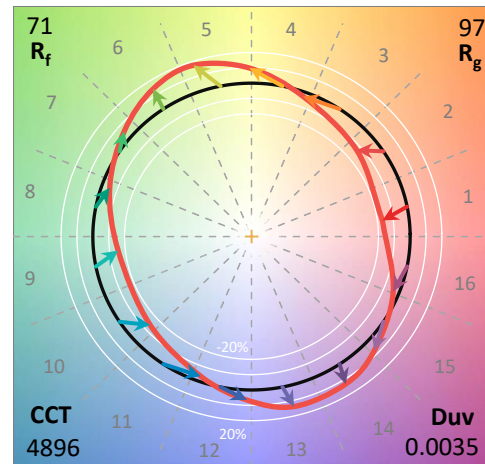
Data in this report applies to families of products including GSS-SB1A-750-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-6
 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-750-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K):	4896	CRI (Ra):	70.2		
CIE u':	0.2101	R1:	68.1	R9:	-35.1
CIE v':	0.4901	R2:	73.9	R10:	39.3
Duv:	0.0035	R3:	79.4	R11:	71.1
CIE x:	0.3489	R4:	72.1	R12:	43.8
CIE y:	0.3618	R5:	69.2	R13:	68.1
CIE z:	0.2893	R6:	65.7	R14:	88.4
Peak Wavelength (nm):	443	R7:	78.1	R15:	59.7
Dominant Wavelength (nm):	570	R8:	55.3		
Purity:	13.25435				
Rf:	70.7				
Rg:	96.8				



Test Conditions

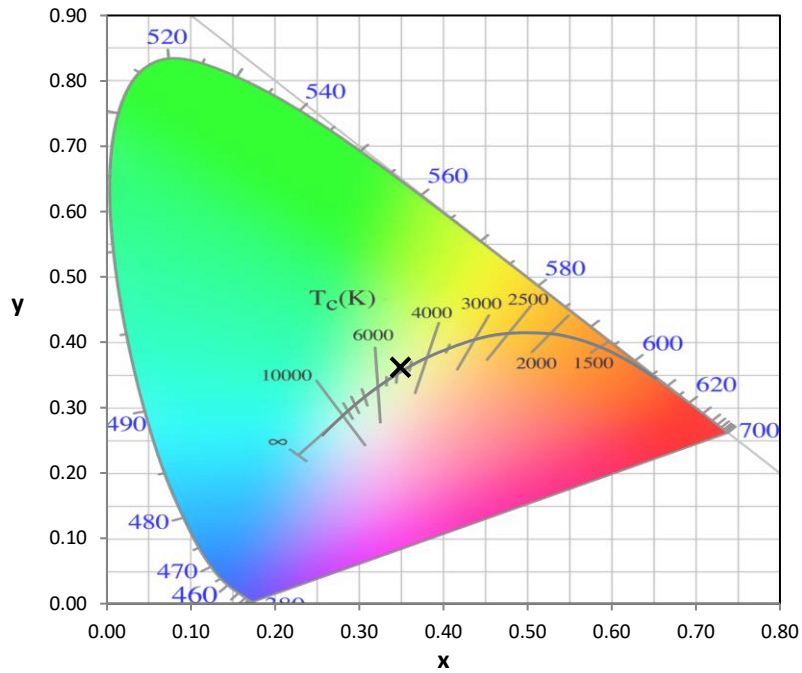
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

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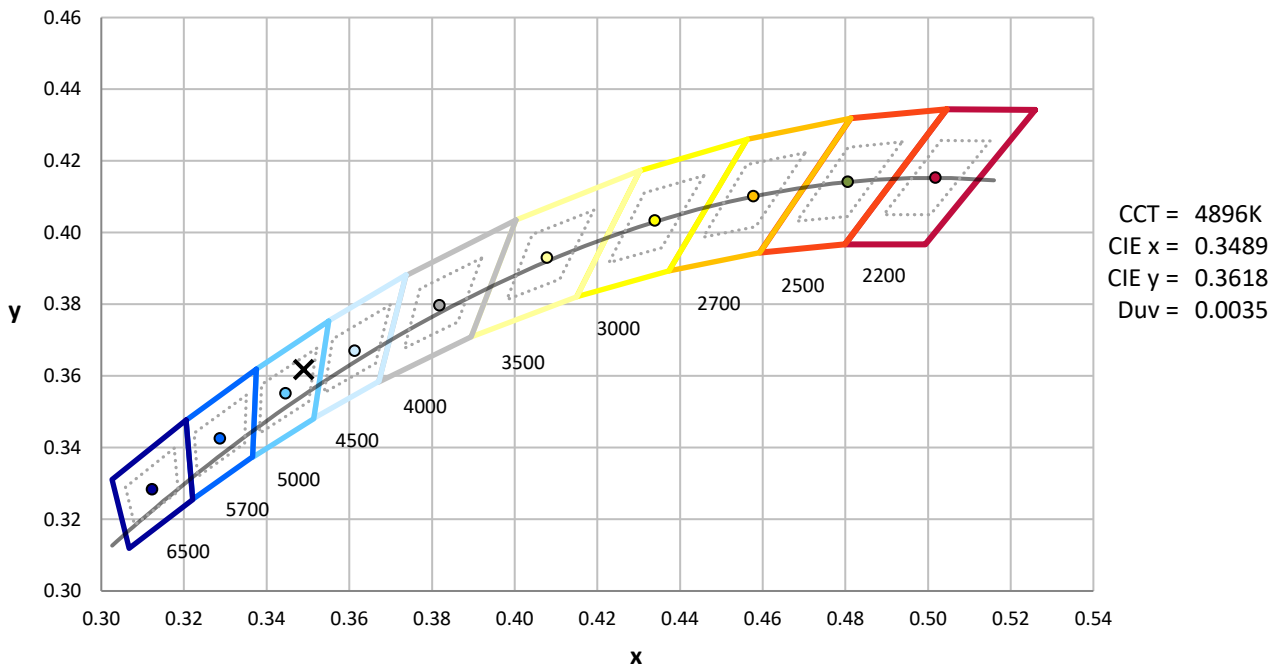
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



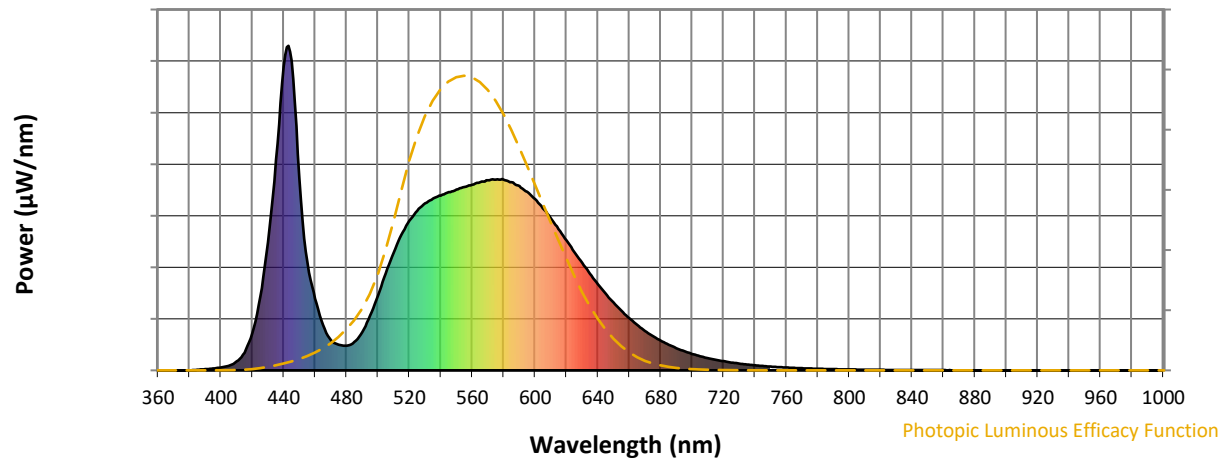
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-6

Photopic Flux vs. Wavelength

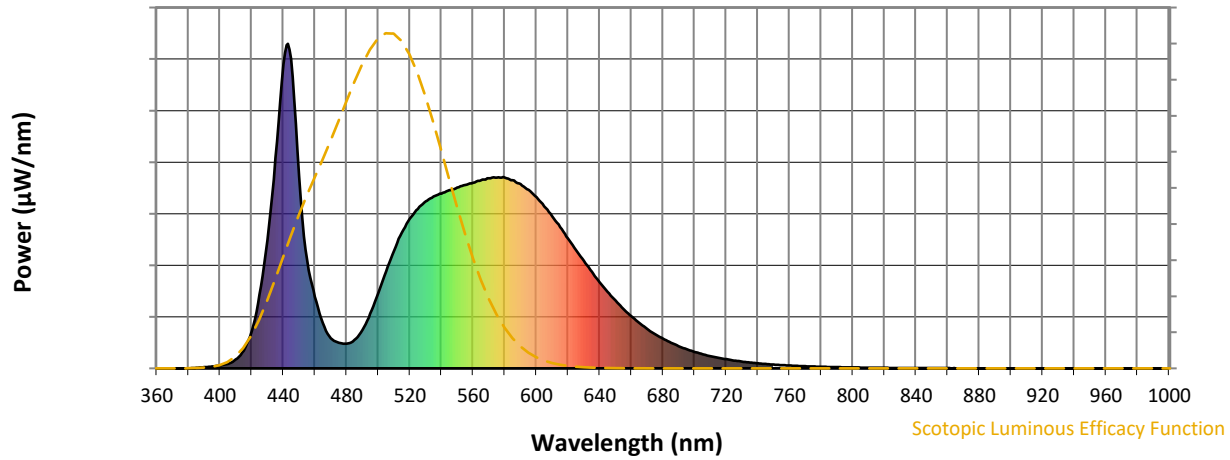


Photopic Lumens: NR

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	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-6

Scotopic Flux vs. Wavelength



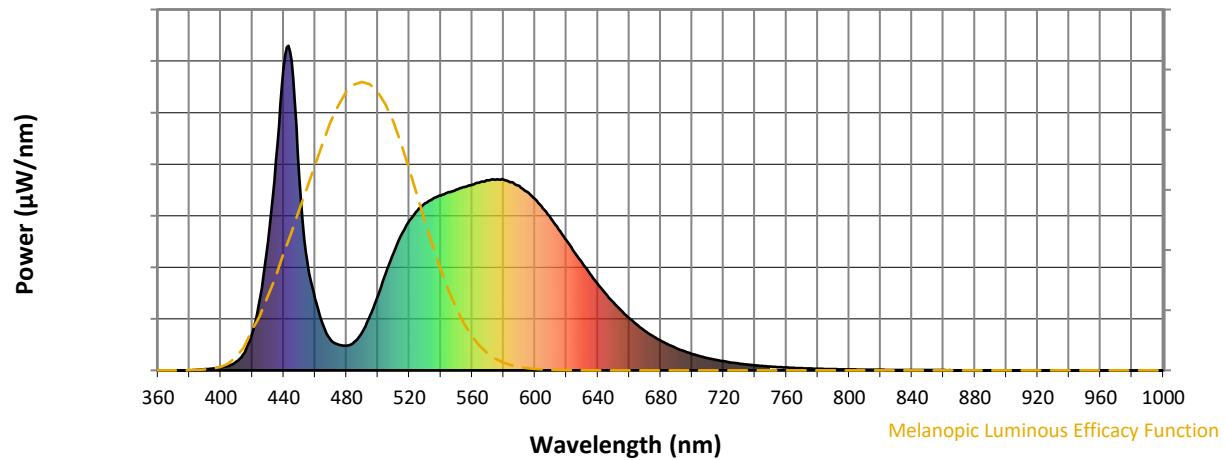
Scotopic Lumens: NR

S/P: 1.7

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	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.37

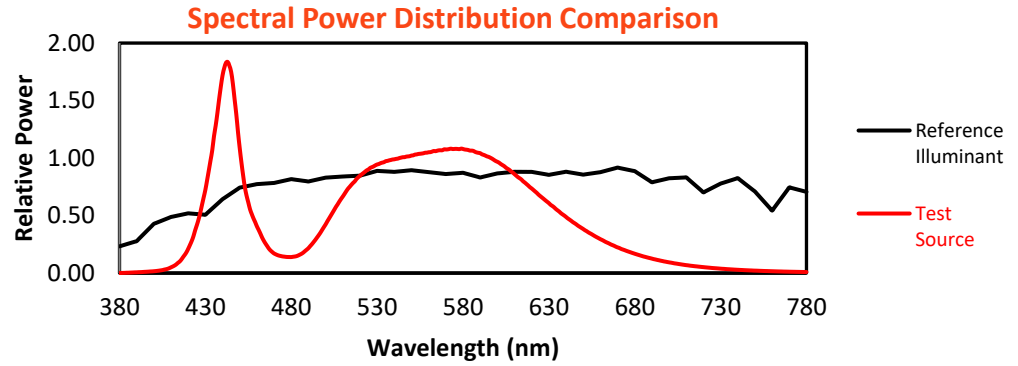
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-6

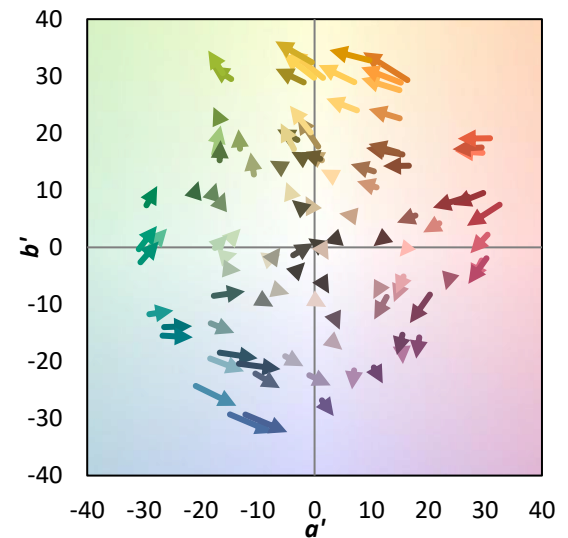
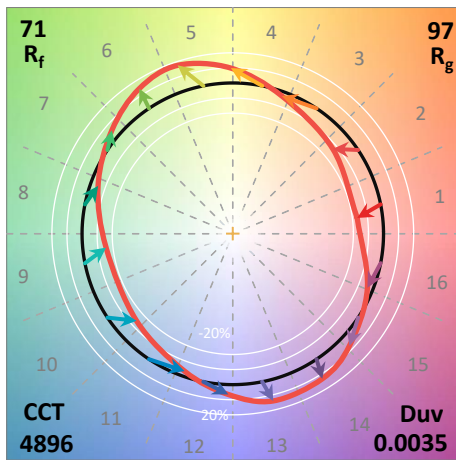
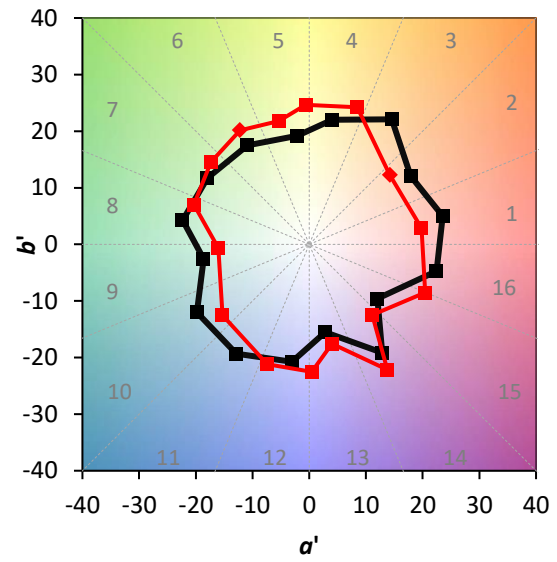
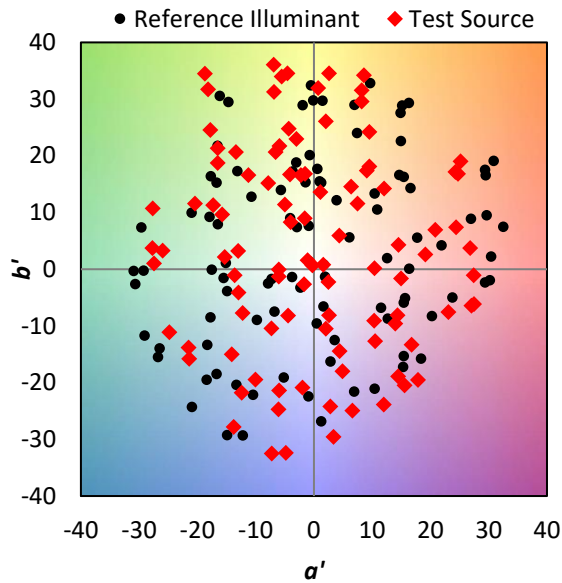
TM-30-18

Summary

$R_f = 70.7$
 $R_g = 96.8$
 CIE $R_a = 70.2$
 $R_g = -35.1$

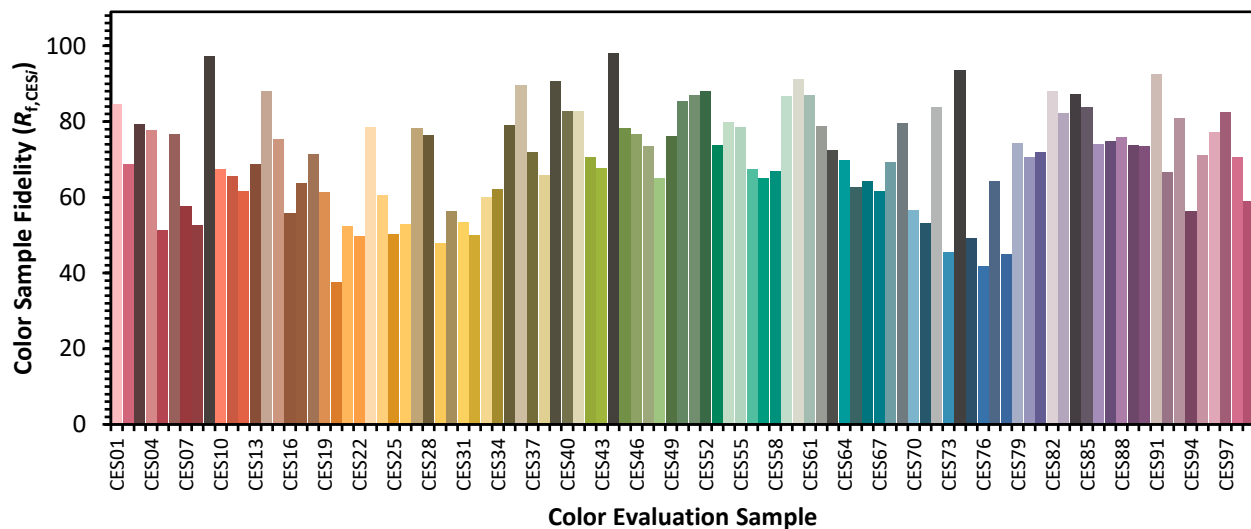


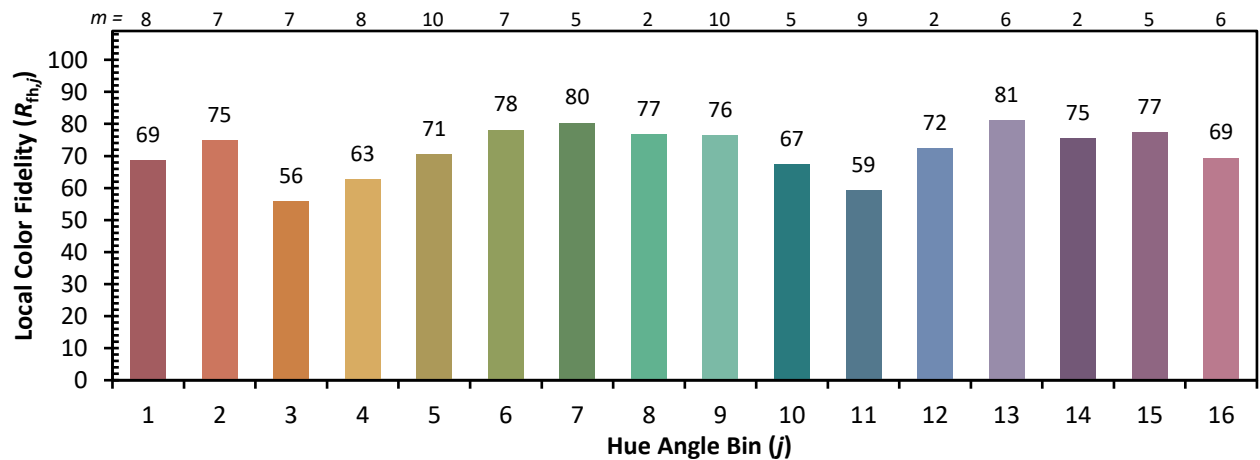
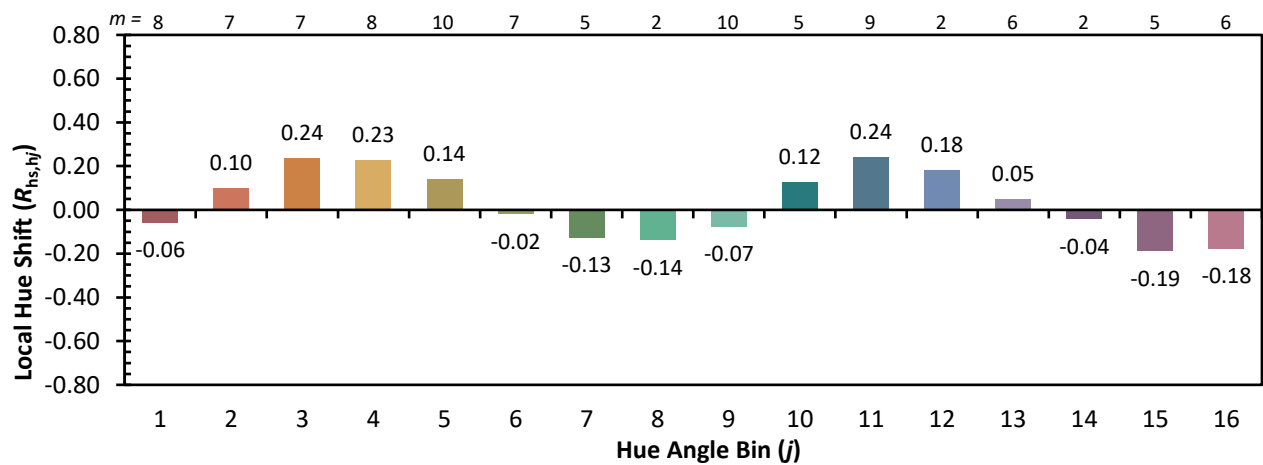
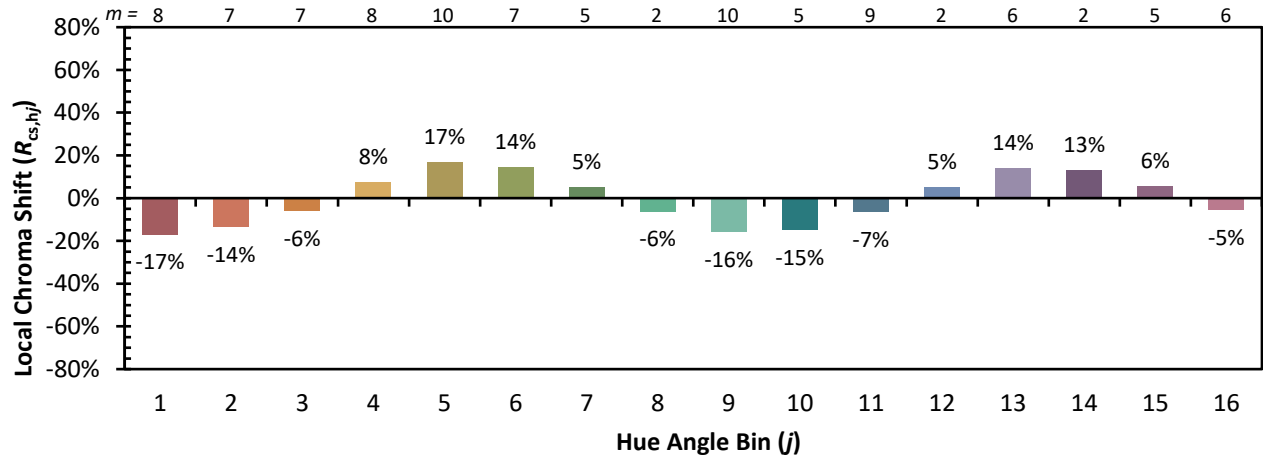
Color Vector Graphics



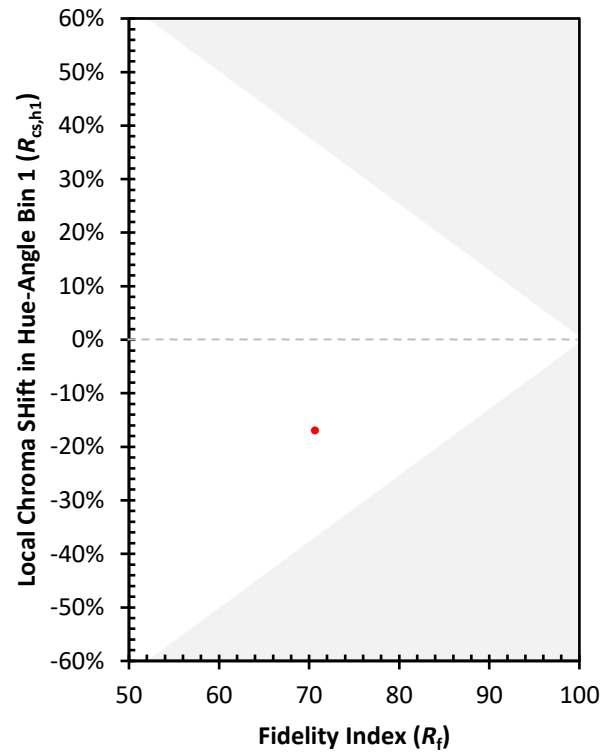
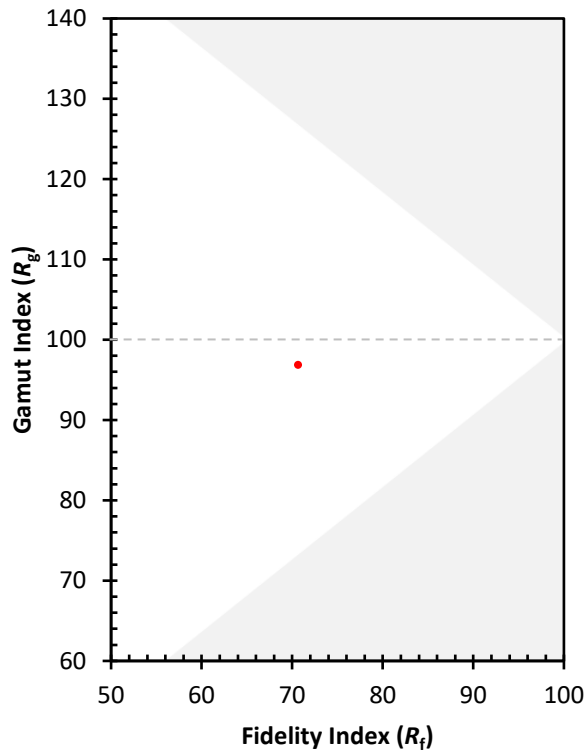
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 53	CES51 = 87	CES76 = 42
CES02 = 59	CES27 = 78	CES52 = 88	CES77 = 64
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 45
CES04 = 69	CES29 = 48	CES54 = 80	CES79 = 74
CES05 = 46	CES30 = 56	CES55 = 79	CES80 = 71
CES06 = 50	CES31 = 54	CES56 = 68	CES81 = 72
CES07 = 39	CES32 = 50	CES57 = 65	CES82 = 88
CES08 = 38	CES33 = 60	CES58 = 67	CES83 = 82
CES09 = 29	CES34 = 62	CES59 = 87	CES84 = 87
CES10 = 72	CES35 = 79	CES60 = 91	CES85 = 84
CES11 = 56	CES36 = 90	CES61 = 87	CES86 = 74
CES12 = 61	CES37 = 72	CES62 = 79	CES87 = 75
CES13 = 41	CES38 = 66	CES63 = 72	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 70	CES89 = 74
CES15 = 70	CES40 = 83	CES65 = 63	CES90 = 73
CES16 = 46	CES41 = 83	CES66 = 64	CES91 = 92
CES17 = 49	CES42 = 70	CES67 = 62	CES92 = 67
CES18 = 55	CES43 = 68	CES68 = 69	CES93 = 81
CES19 = 71	CES44 = 98	CES69 = 80	CES94 = 56
CES20 = 64	CES45 = 78	CES70 = 56	CES95 = 71
CES21 = 85	CES46 = 77	CES71 = 53	CES96 = 77
CES22 = 77	CES47 = 73	CES72 = 84	CES97 = 82
CES23 = 91	CES48 = 65	CES73 = 46	CES98 = 71
CES24 = 90	CES49 = 76	CES74 = 94	CES99 = 59
CES25 = 71	CES50 = 85	CES75 = 49	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)