

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: P1049723

Luminaire Tested: **GALN-SA3C-827-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049723
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-827-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 3xLight Square PACKAGE
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13305.8 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

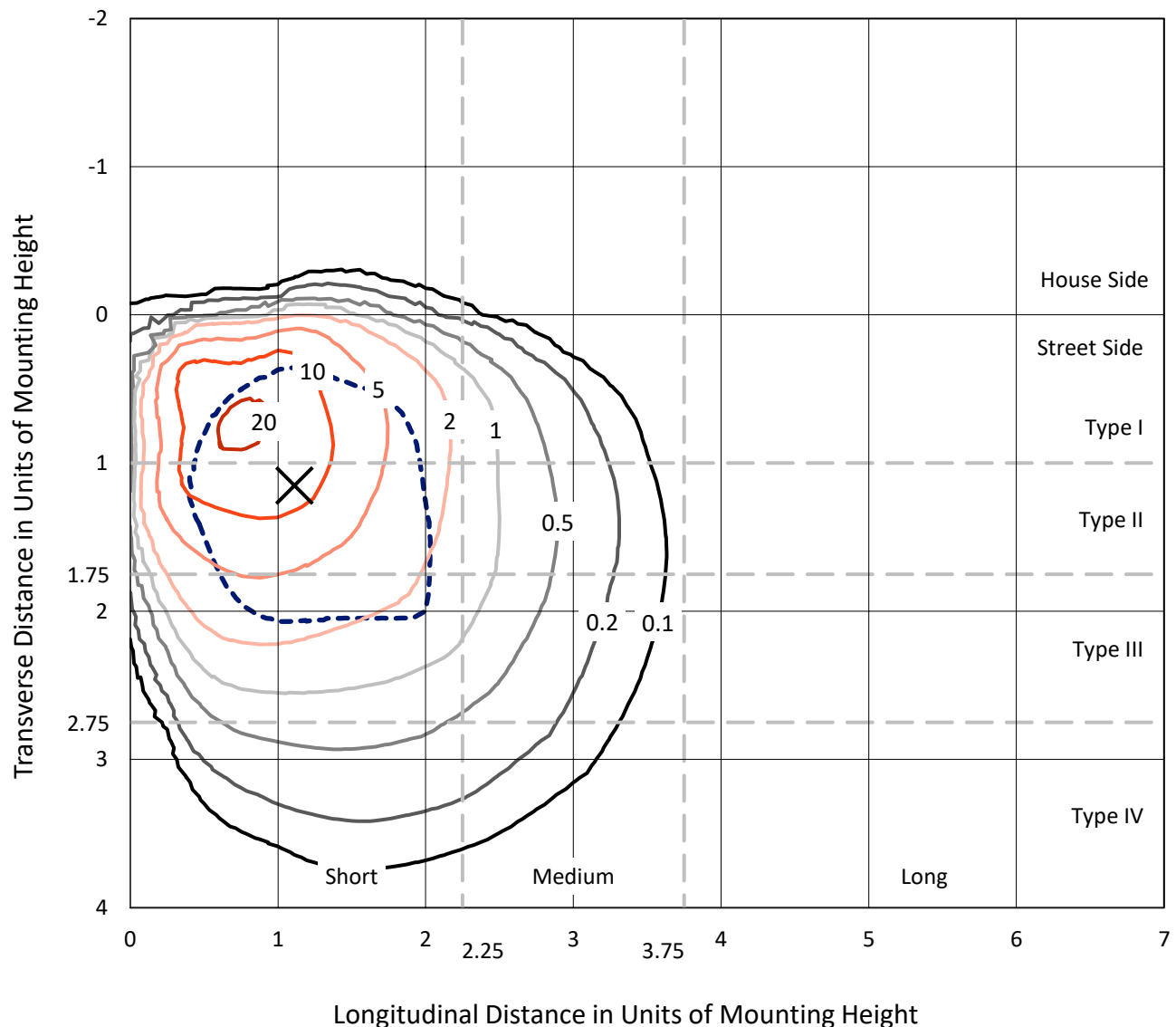
Input Watts (W): 140.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

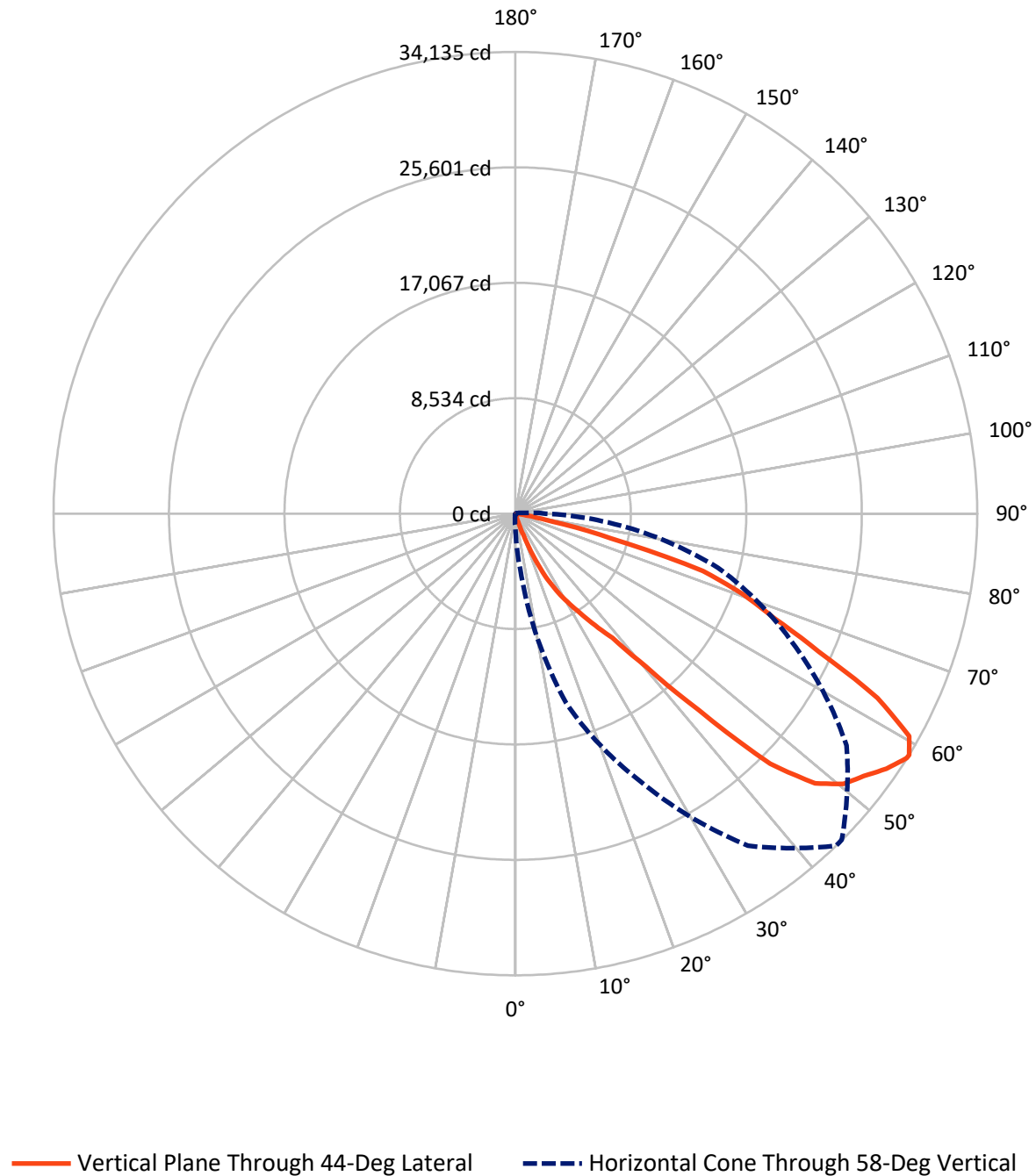
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 23.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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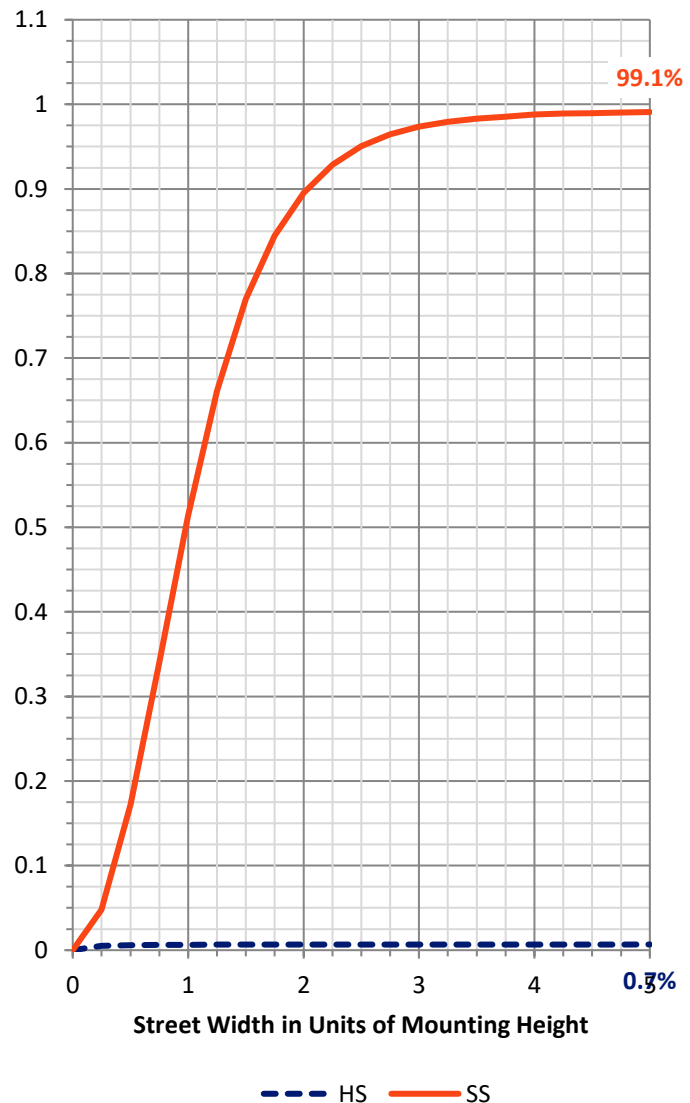
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	90.9	0.0	90.9
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	13215.0	0.0	13215.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	13305.8	0.0	13305.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.2	0.0
10°-20°	29.2	0.2
20°-30°	315.2	2.4
30°-40°	932.2	7.0
40°-50°	2778.5	20.9
50°-60°	4408.8	33.1
60°-70°	3677.4	27.6
70°-80°	1134.2	8.5
80°-90°	25.2	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°	13305.8	100.0
0°-180°	13305.8	100.0



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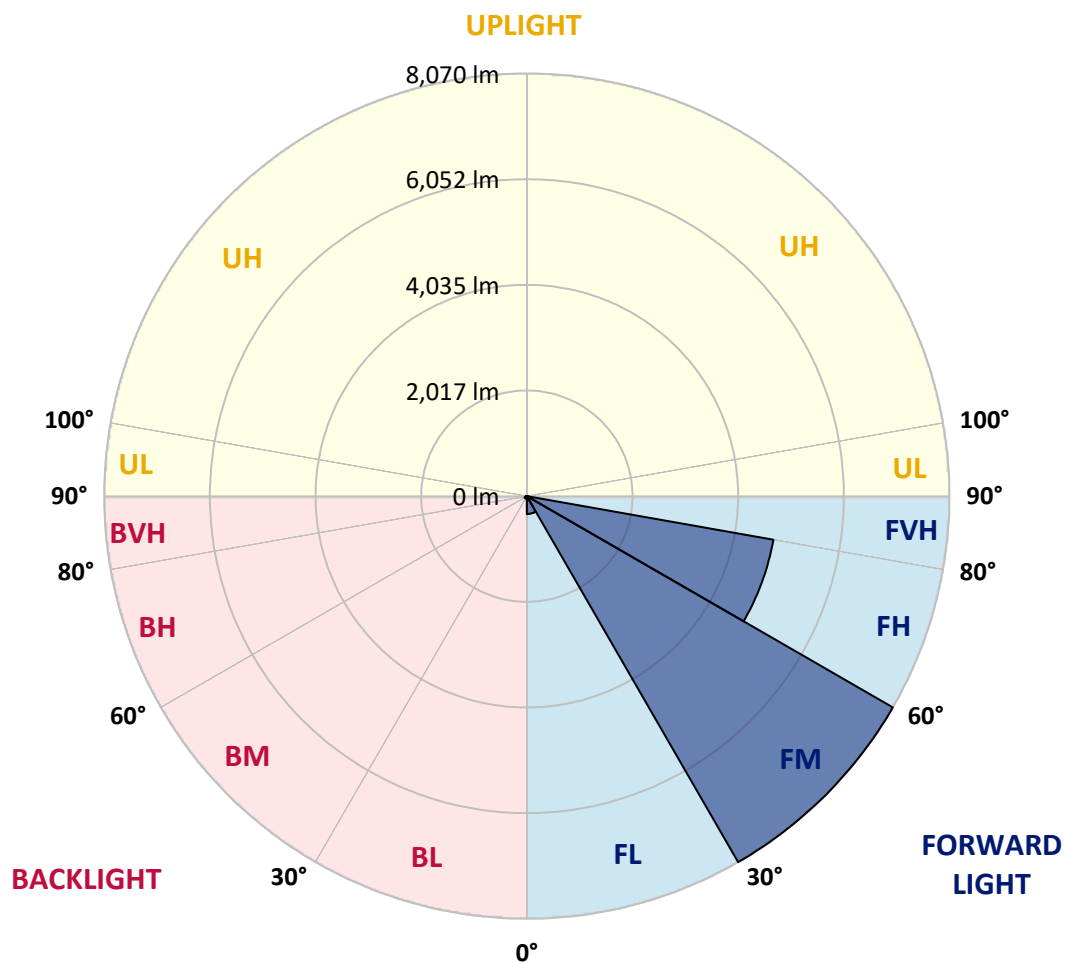
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	340.7	2.6			
FM	(30°-60°)	8069.7	60.6			
FH	(60°-80°)	4780.6	35.9			G2/5000
FVH	(80°-90°)	24.0	0.2			G1/100
BL	(0°-30°)	8.9	0.1	B0/110		
BM	(30°-60°)	49.7	0.4	B0/220		
BH	(60°-80°)	31.0	0.2	B0/110		G0/110
BVH	(80°-90°)	1.2	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°	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
2.5°	75.4	75.4	72.4	68.3	64.3	60.3	59.3	57.3	56.3	55.3
5°	78.4	78.4	77.4	74.4	70.4	67.3	67.3	64.3	62.3	60.3
7.5°	80.4	81.4	83.4	82.4	80.4	77.4	77.4	75.4	72.4	67.3
10°	83.4	86.4	90.5	92.5	93.5	93.5	92.5	91.5	86.4	79.4
12.5°	86.4	92.5	102.5	112.6	118.6	126.6	125.6	123.6	110.6	95.5
15°	92.5	101.5	122.6	151.8	197.0	225.2	236.2	226.2	182.9	128.7
17.5°	99.5	114.6	177.9	317.6	520.7	617.2	675.5	628.2	416.1	244.2
20°	106.5	139.7	330.7	823.2	1350.9	1666.5	1754.0	1617.3	1038.3	465.4
22.5°	118.6	196.0	670.4	1701.7	2910.9	3384.3	3473.8	3036.5	1961.0	918.7
25°	143.7	284.5	1155.9	2773.2	4344.2	5143.3	5106.1	4533.2	3181.3	1467.5
27.5°	179.9	414.1	1747.9	3940.2	5717.3	6421.9	6506.3	5797.7	4240.7	2158.0
30°	232.2	573.9	2383.2	4874.9	6817.9	7579.8	7593.9	6861.1	5188.6	2764.1
32.5°	282.4	724.7	2939.0	5778.6	7902.4	8737.7	8800.0	7898.4	5896.2	3395.4
35°	320.6	823.2	3501.9	6572.6	8996.0	10146.9	10142.9	9072.4	6734.5	3959.3
37.5°	323.7	921.7	4011.5	7384.8	10381.1	11669.7	11797.4	10617.3	7747.6	4656.8
40°	316.6	1032.3	4656.8	8651.3	12876.9	14854.0	14966.6	13479.0	9780.0	5850.9
42.5°	324.7	1224.3	5704.2	10990.2	17021.1	19860.6	20077.7	18513.7	13516.2	8287.4
45°	366.9	1585.1	7898.4	14903.3	22928.3	26390.0	26317.7	24065.1	17863.4	11996.4
47.5°	506.6	2468.6	11151.1	18711.8	26703.6	29786.4	29848.7	27095.7	20400.4	14848.0
50°	779.0	3777.3	13884.0	20725.1	28327.0	31419.8	31361.5	28180.2	21364.3	16252.2
52.5°	1013.2	4724.2	15255.1	21431.7	28535.0	32226.9	32222.9	28465.7	21514.1	16372.8
55°	1071.5	4795.5	15266.1	21469.9	29001.4	33283.3	33416.0	29168.3	21708.1	15846.1
57.5°	1048.4	4245.7	14628.9	21691.0	29831.7	34100.5	34107.5	29848.7	22200.6	15523.4
58°	1028.3	4159.3	14500.2	21816.6	29974.4	34134.7	34117.6	29879.9	22601.7	15511.4
60°	915.7	3611.5	13998.6	22137.3	29762.3	33433.1	33273.3	29199.4	22542.4	15387.7
62.5°	719.7	2817.4	13505.1	21766.4	27488.7	30036.7	30103.0	25851.3	20550.2	14667.1
65°	572.9	2099.7	12475.8	19092.7	22635.8	24666.2	24913.5	21021.6	17152.8	12419.6
67.5°	456.3	1517.8	10465.6	15200.8	17911.7	20586.3	20766.3	17649.3	13289.0	9515.7
70°	370.9	1026.3	7224.0	11116.9	14773.6	17781.0	17792.0	14662.0	9918.8	6234.9
72.5°	328.7	710.6	4193.5	8107.5	11979.3	14489.1	14196.6	11897.9	7623.0	3692.9
75°	284.5	471.4	2056.5	4956.4	7263.2	7312.4	7424.0	5519.2	3810.5	1756.0
77.5°	234.2	334.7	810.1	1353.9	2178.1	2788.3	2891.8	2191.2	1267.5	432.2
80°	160.8	158.8	218.1	415.1	623.2	781.0	728.7	563.9	331.7	165.8
82.5°	69.4	75.4	98.5	118.6	96.5	93.5	89.5	57.3	44.2	34.2
85°	22.1	20.1	21.1	21.1	17.1	13.1	13.1	6.0	0.0	0.0
87.5°	11.1	9.0	9.0	8.0	5.0	2.0	1.0	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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
58.3	0°	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
54.3	2.5°	53.3	53.3	51.3	49.3	48.2	46.2	45.2	44.2	43.2	42.2
58.3	5°	56.3	55.3	52.3	49.3	46.2	43.2	41.2	39.2	37.2	36.2
64.3	7.5°	61.3	59.3	53.3	48.2	44.2	40.2	38.2	35.2	33.2	30.2
71.4	10°	67.3	63.3	55.3	49.3	43.2	38.2	35.2	32.2	29.1	25.1
81.4	12.5°	75.4	68.3	58.3	48.2	41.2	35.2	32.2	28.1	25.1	22.1
94.5	15°	82.4	73.4	59.3	48.2	39.2	32.2	28.1	24.1	21.1	17.1
118.6	17.5°	92.5	77.4	58.3	45.2	36.2	28.1	24.1	21.1	16.1	10.1
175.9	20°	109.6	80.4	56.3	42.2	31.2	23.1	18.1	14.1	7.0	2.0
264.4	22.5°	136.7	88.5	54.3	38.2	27.1	18.1	12.1	5.0	0.0	0.0
402.1	25°	189.0	102.5	54.3	36.2	24.1	13.1	4.0	0.0	0.0	0.0
570.9	27.5°	251.3	121.6	54.3	31.2	19.1	7.0	0.0	0.0	0.0	0.0
778.0	30°	314.6	142.7	54.3	27.1	15.1	1.0	0.0	0.0	0.0	0.0
957.9	32.5°	374.9	160.8	55.3	23.1	10.1	0.0	0.0	0.0	0.0	0.0
1207.2	35°	436.2	163.8	54.3	20.1	6.0	0.0	0.0	0.0	0.0	0.0
1512.7	37.5°	514.6	157.8	51.3	18.1	3.0	0.0	0.0	0.0	0.0	0.0
1990.2	40°	633.2	160.8	48.2	17.1	1.0	0.0	0.0	0.0	0.0	0.0
2841.5	42.5°	852.4	173.9	44.2	17.1	0.0	0.0	0.0	0.0	0.0	0.0
4526.2	45°	1473.5	233.2	40.2	18.1	0.0	0.0	0.0	0.0	0.0	0.0
6794.8	47.5°	2437.5	419.1	39.2	18.1	0.0	0.0	0.0	0.0	0.0	0.0
8184.9	50°	3110.9	527.7	41.2	19.1	0.0	0.0	0.0	0.0	0.0	0.0
8358.8	52.5°	3105.9	588.0	43.2	20.1	4.0	0.0	0.0	0.0	0.0	0.0
7704.4	55°	2761.1	599.1	46.2	22.1	13.1	0.0	0.0	0.0	0.0	0.0
6620.9	57.5°	2307.8	546.8	53.3	27.1	24.1	0.0	0.0	0.0	0.0	0.0
6451.0	58°	2227.4	522.7	55.3	28.1	26.1	0.0	0.0	0.0	0.0	0.0
5595.6	60°	1825.3	426.2	70.4	35.2	35.2	0.0	0.0	0.0	0.0	0.0
4587.5	62.5°	1260.4	371.9	80.4	45.2	36.2	0.0	0.0	0.0	0.0	0.0
3382.3	65°	891.6	335.7	87.4	48.2	29.1	0.0	0.0	0.0	0.0	0.0
2403.3	67.5°	666.4	309.6	96.5	49.3	15.1	0.0	0.0	0.0	0.0	0.0
1507.7	70°	510.6	290.5	118.6	52.3	4.0	0.0	0.0	0.0	0.0	0.0
898.6	72.5°	416.1	268.4	143.7	54.3	0.0	0.0	0.0	0.0	0.0	0.0
538.8	75°	344.8	242.2	138.7	59.3	0.0	0.0	0.0	0.0	0.0	0.0
287.5	77.5°	229.2	188.0	126.6	59.3	0.0	0.0	0.0	0.0	0.0	0.0
102.5	80°	80.4	74.4	98.5	52.3	0.0	0.0	0.0	0.0	0.0	0.0
21.1	82.5°	12.1	10.1	14.1	18.1	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°
58.3	0°	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
41.2	2.5°	41.2	41.2	40.2	41.2	41.2	43.2	48.2	55.3	63.3	66.3
35.2	5°	34.2	33.2	32.2	32.2	32.2	35.2	39.2	47.2	56.3	60.3
29.1	7.5°	28.1	27.1	26.1	25.1	25.1	27.1	32.2	41.2	50.3	54.3
24.1	10°	23.1	21.1	20.1	19.1	19.1	21.1	26.1	35.2	45.2	49.3
20.1	12.5°	19.1	16.1	14.1	13.1	12.1	15.1	20.1	28.1	39.2	44.2
15.1	15°	13.1	10.1	7.0	6.0	5.0	8.0	13.1	22.1	33.2	39.2
8.0	17.5°	7.0	3.0	1.0	0.0	0.0	2.0	6.0	16.1	27.1	32.2
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	20.1	25.1
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	12.1	17.1
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	9.0
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
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	3.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	8.0
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):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
58.3	0°	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
69.4	2.5°	71.4	70.4	68.3	66.3	66.3	66.3	69.4	72.4	75.4	75.4
62.3	5°	66.3	66.3	65.3	63.3	63.3	64.3	68.3	73.4	77.4	78.4
57.3	7.5°	61.3	63.3	61.3	60.3	61.3	62.3	66.3	72.4	78.4	80.4
53.3	10°	58.3	59.3	59.3	58.3	58.3	60.3	64.3	72.4	80.4	83.4
48.2	12.5°	54.3	56.3	55.3	55.3	55.3	57.3	62.3	71.4	82.4	86.4
43.2	15°	50.3	53.3	53.3	52.3	52.3	53.3	60.3	70.4	85.4	92.5
37.2	17.5°	46.2	49.3	50.3	48.2	48.2	50.3	57.3	70.4	87.4	99.5
30.2	20°	38.2	43.2	46.2	43.2	43.2	45.2	52.3	66.3	88.5	106.5
22.1	22.5°	30.2	35.2	39.2	38.2	38.2	39.2	48.2	63.3	89.5	118.6
13.1	25°	22.1	27.1	30.2	32.2	32.2	35.2	44.2	61.3	93.5	143.7
6.0	27.5°	13.1	19.1	23.1	25.1	26.1	30.2	41.2	59.3	100.5	179.9
0.0	30°	6.0	11.1	16.1	20.1	20.1	27.1	38.2	57.3	109.6	232.2
0.0	32.5°	0.0	5.0	8.0	14.1	15.1	22.1	35.2	55.3	122.6	282.4
0.0	35°	0.0	0.0	4.0	11.1	11.1	18.1	32.2	53.3	142.7	320.6
0.0	37.5°	0.0	0.0	0.0	8.0	9.0	16.1	31.2	52.3	146.8	323.7
0.0	40°	0.0	0.0	0.0	6.0	7.0	15.1	31.2	53.3	132.7	316.6
0.0	42.5°	0.0	0.0	0.0	4.0	5.0	15.1	31.2	55.3	119.6	324.7
0.0	45°	0.0	0.0	0.0	3.0	4.0	16.1	30.2	54.3	112.6	366.9
0.0	47.5°	0.0	0.0	0.0	4.0	6.0	16.1	29.1	53.3	113.6	506.6
0.0	50°	0.0	0.0	0.0	5.0	7.0	16.1	30.2	51.3	124.6	779.0
0.0	52.5°	0.0	0.0	0.0	4.0	6.0	18.1	33.2	50.3	135.7	1013.2
0.0	55°	0.0	0.0	0.0	1.0	3.0	23.1	36.2	50.3	152.8	1071.5
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	26.1	41.2	53.3	180.9	1048.4
0.0	58°	0.0	0.0	0.0	0.0	0.0	26.1	42.2	53.3	182.9	1028.3
0.0	60°	0.0	0.0	0.0	0.0	0.0	26.1	46.2	59.3	197.0	915.7
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	22.1	55.3	74.4	205.0	719.7
0.0	65°	0.0	0.0	0.0	0.0	0.0	18.1	65.3	81.4	211.1	572.9
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	17.1	67.3	82.4	214.1	456.3
0.0	70°	0.0	0.0	0.0	0.0	0.0	18.1	66.3	88.5	224.1	370.9
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	20.1	60.3	97.5	224.1	328.7
0.0	75°	0.0	0.0	0.0	0.0	0.0	21.1	56.3	109.6	204.0	284.5
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	20.1	55.3	127.7	181.9	234.2
0.0	80°	2.0	3.0	3.0	2.0	2.0	17.1	54.3	129.7	154.8	160.8
1.0	82.5°	6.0	8.0	7.0	5.0	5.0	15.1	48.2	108.6	80.4	69.4
6.0	85°	11.1	13.1	13.1	11.1	11.1	14.1	30.2	39.2	27.1	22.1
11.1	87.5°	15.1	17.1	17.1	15.1	15.1	14.1	13.1	12.1	11.1	11.1
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: SP1-2407-184-8

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-827-U-5WQ

Data in this report applies to families of products including GSS-SB1A-827-U-5WQ

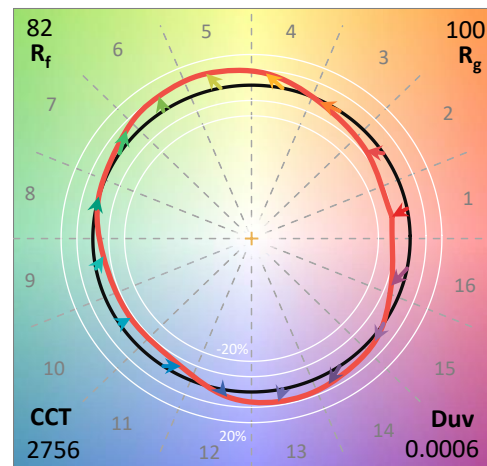
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-8
 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-827-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K): 2756
 CIE u' : 0.2599
 CIE v' : 0.5271
 Duv: 0.0006
 CIE x: 0.4563
 CIE y: 0.4112
 CIE z: 0.1325
 Peak Wavelength (nm): 609
 Dominant Wavelength (nm): 583
 Purity: 60.41121
 R_f: 82.2
 R_g: 99.9

CRI (Ra): 82.9
 R1: 81.6
 R2: 88.8
 R3: 96.0
 R4: 83.4
 R5: 81.4
 R6: 87.0
 R7: 84.0
 R8: 60.8
 R9: 10.8
 R10: 74.8
 R11: 84.3
 R12: 72.1
 R13: 82.9
 R14: 97.3
 R15: 73.7



Test Conditions

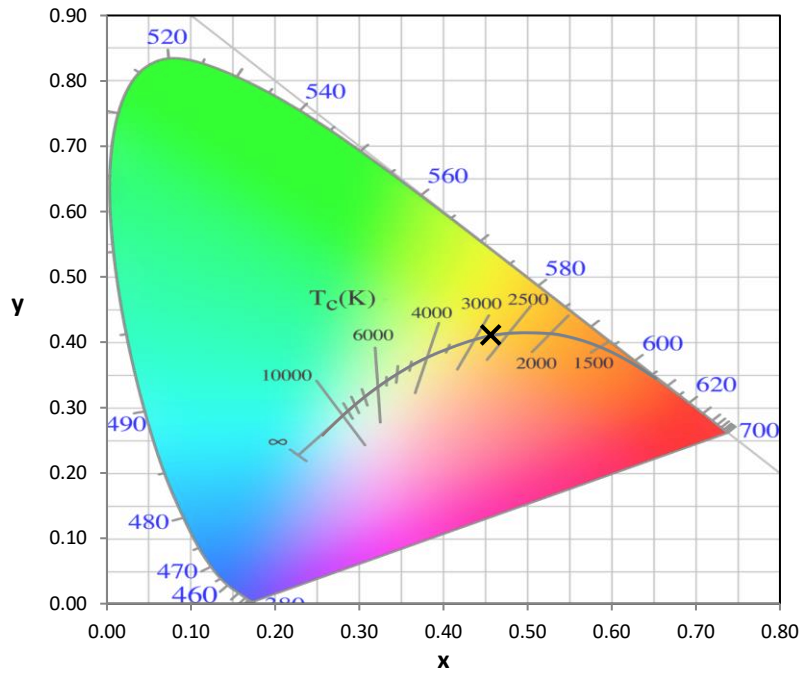
Stabilization Time: 29M
 Operation Time: 1H 29M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-8

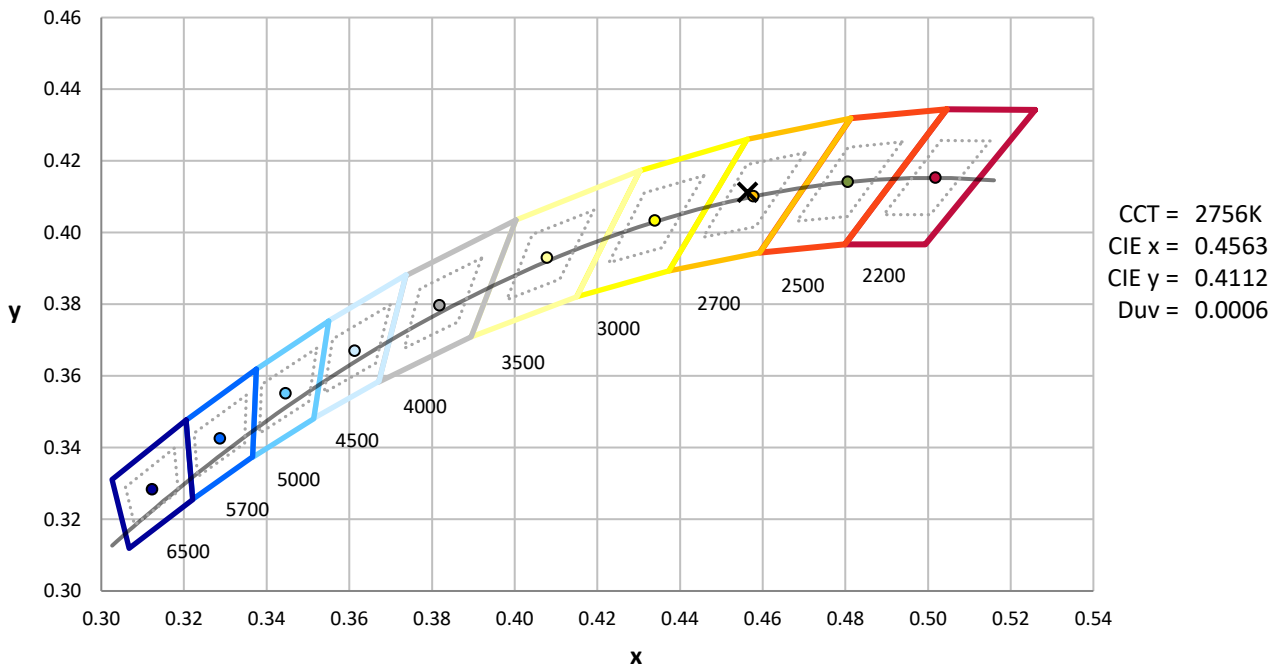
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



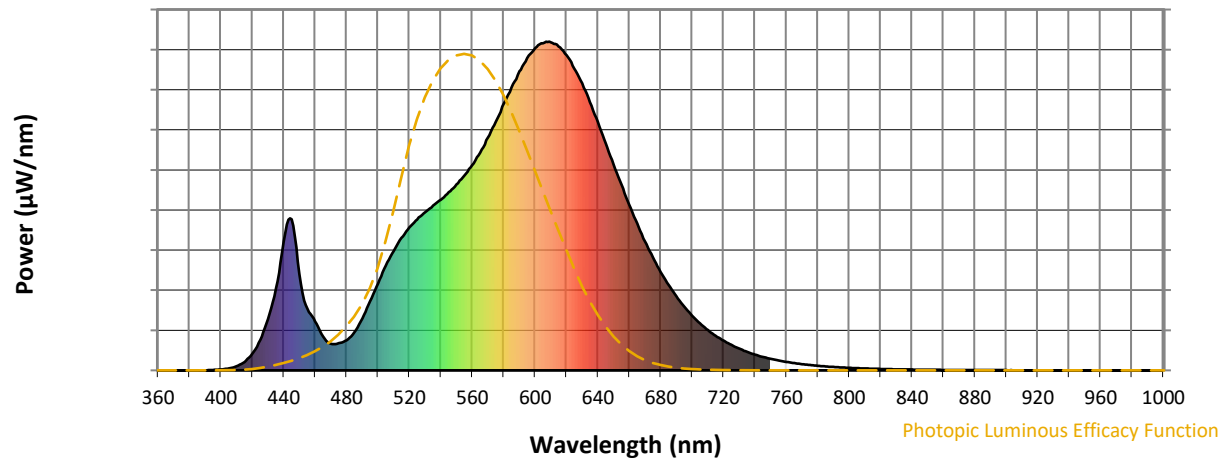
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-8

Photopic Flux vs. Wavelength

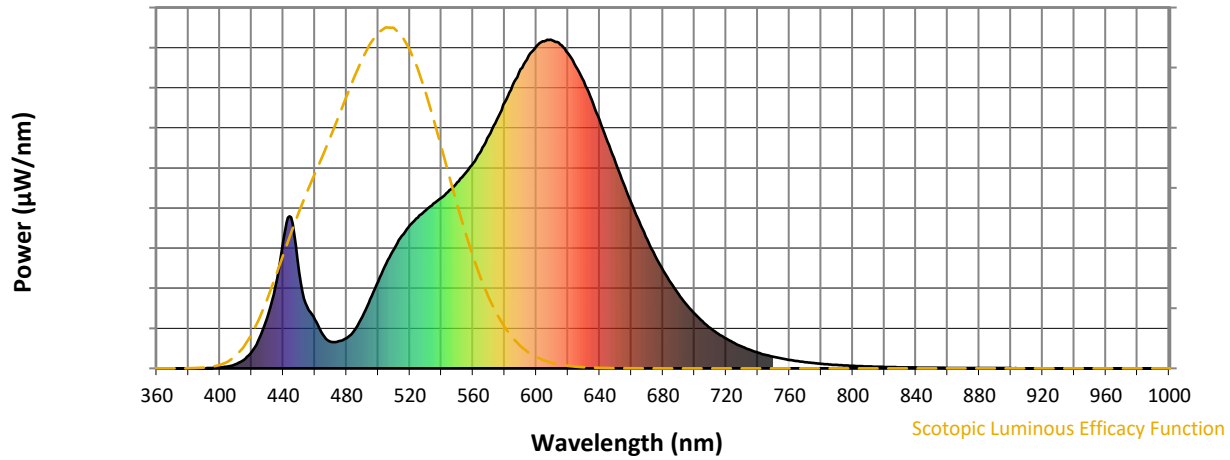


Photopic Lumens: NR

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

Scotopic Flux vs. Wavelength



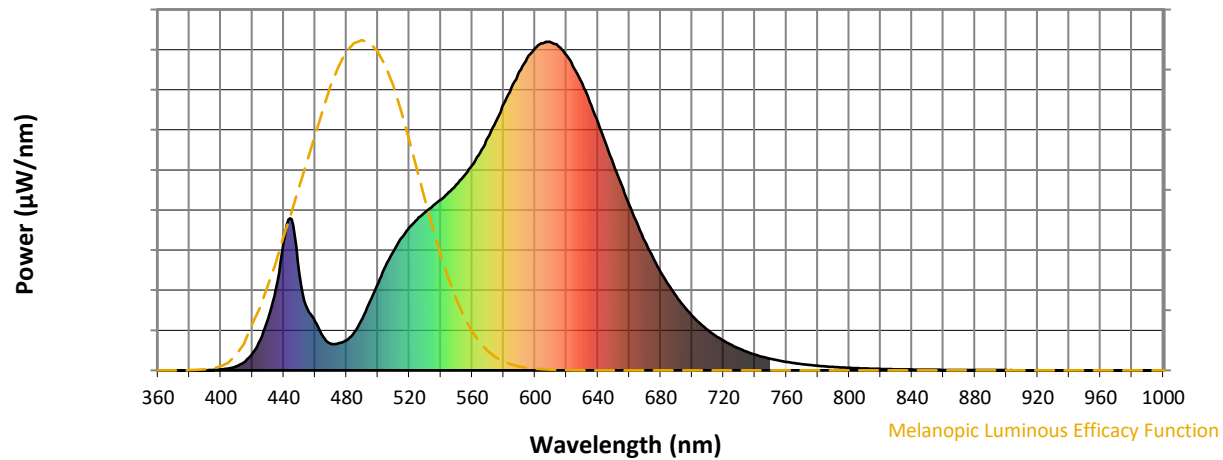
Scotopic Lumens: NR

S/P: 1.2

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.16

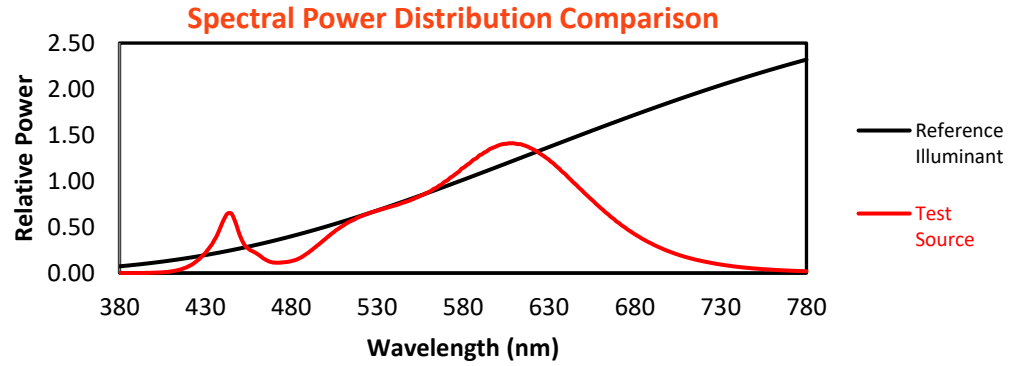
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

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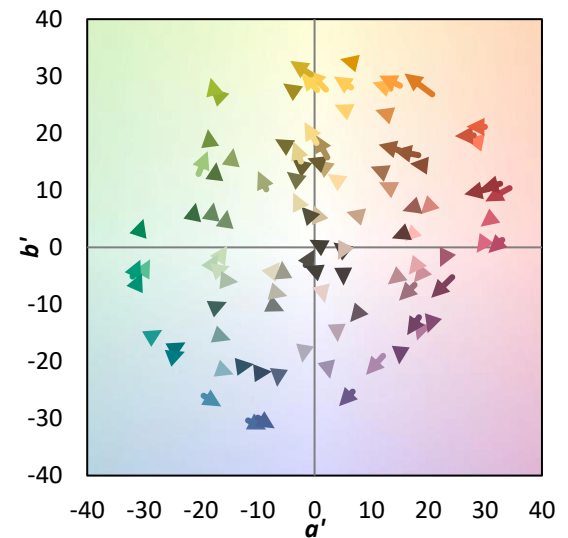
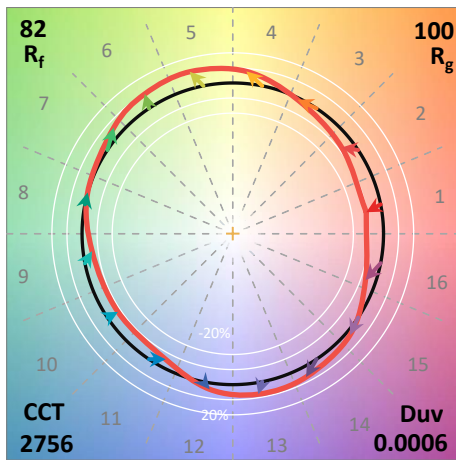
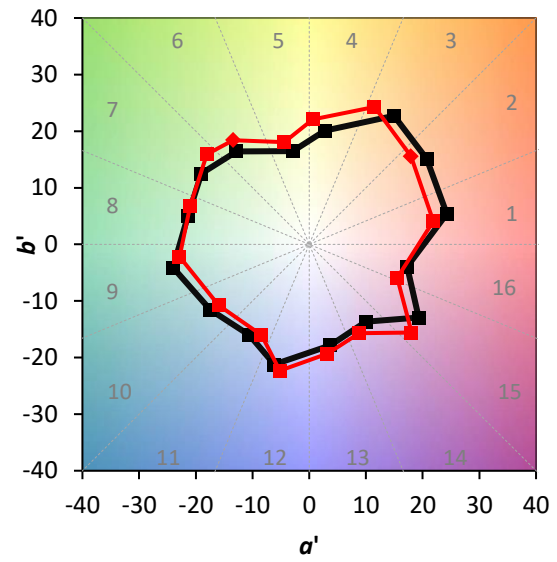
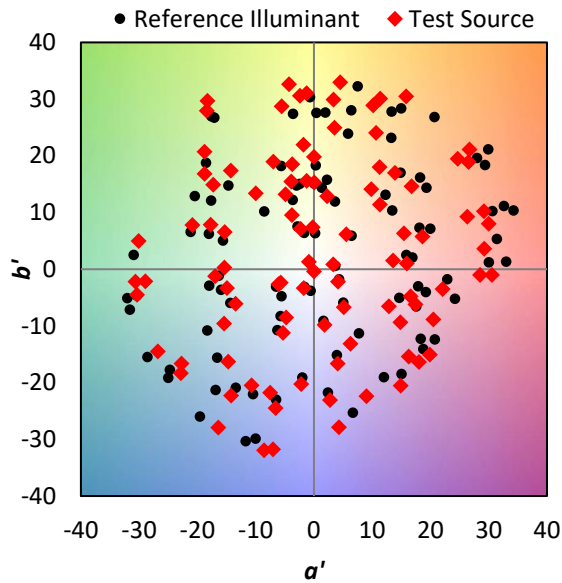
TM-30-18

Summary

$R_f = 82.2$
 $R_g = 99.9$
 $CIE R_a = 82.9$
 $R_9 = 10.8$

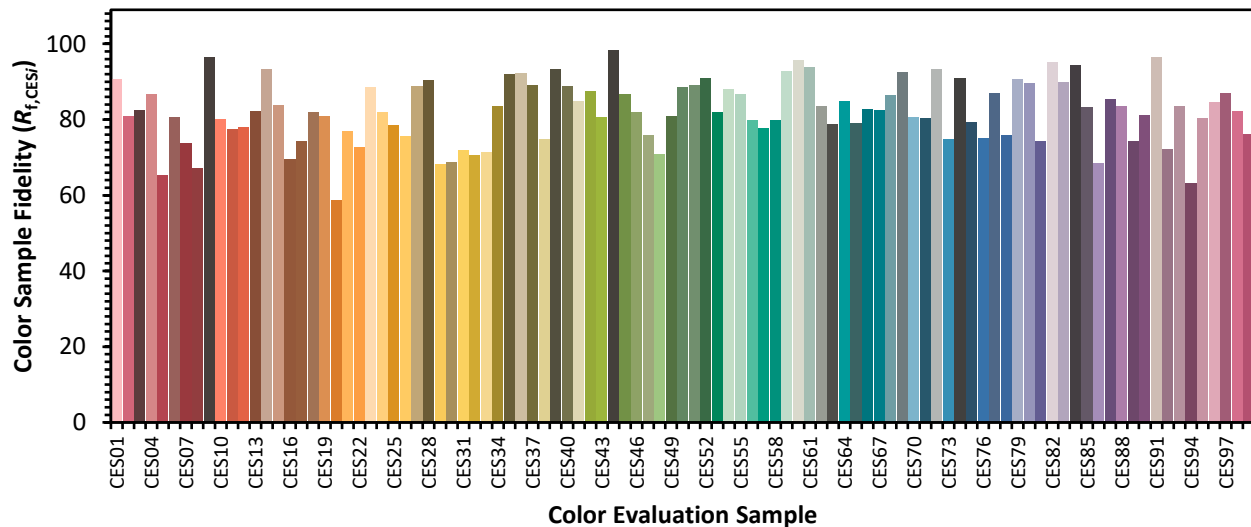


Color Vector Graphics

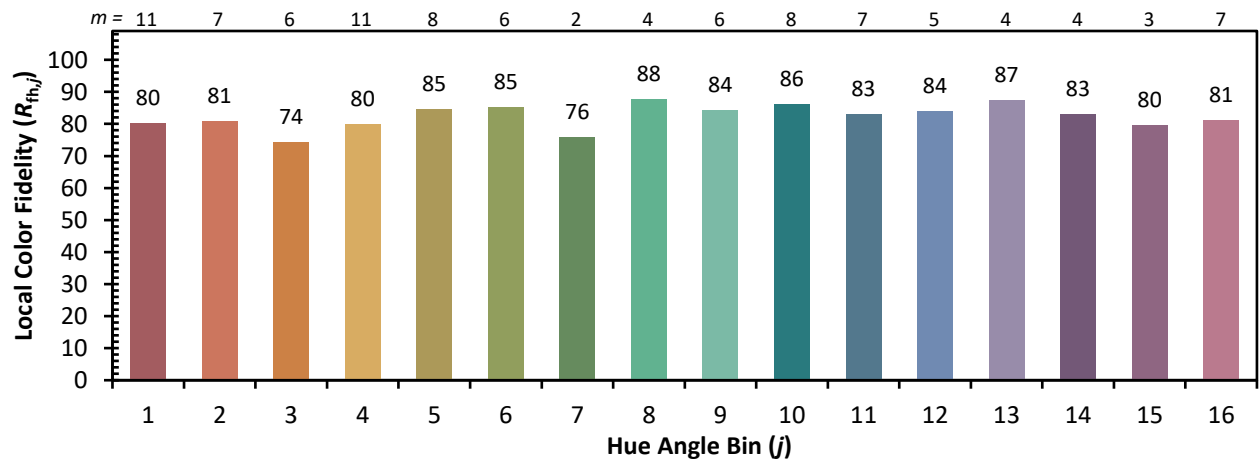
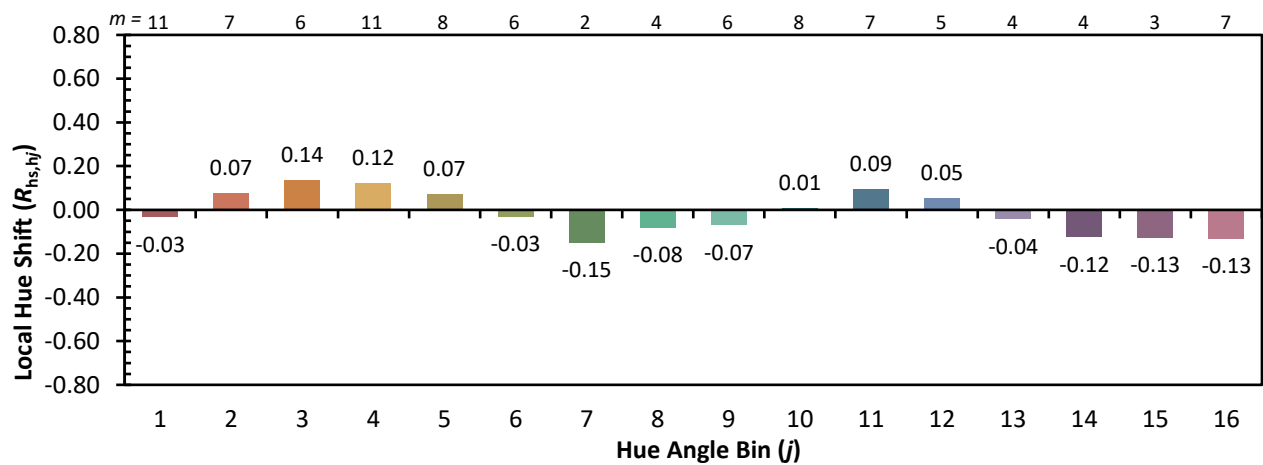
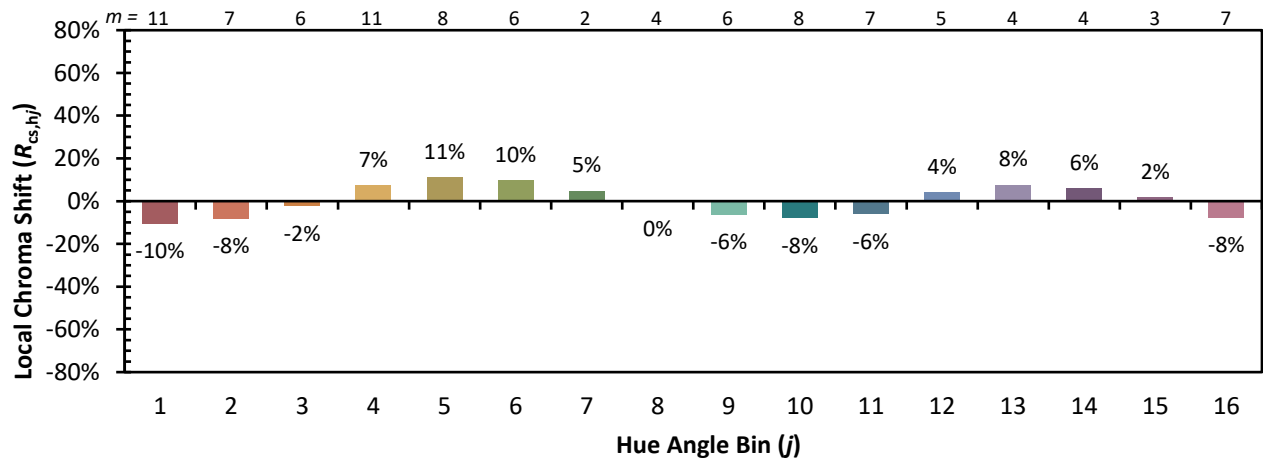


Individual Sample Fidelity Index ($R_{f,i}$)

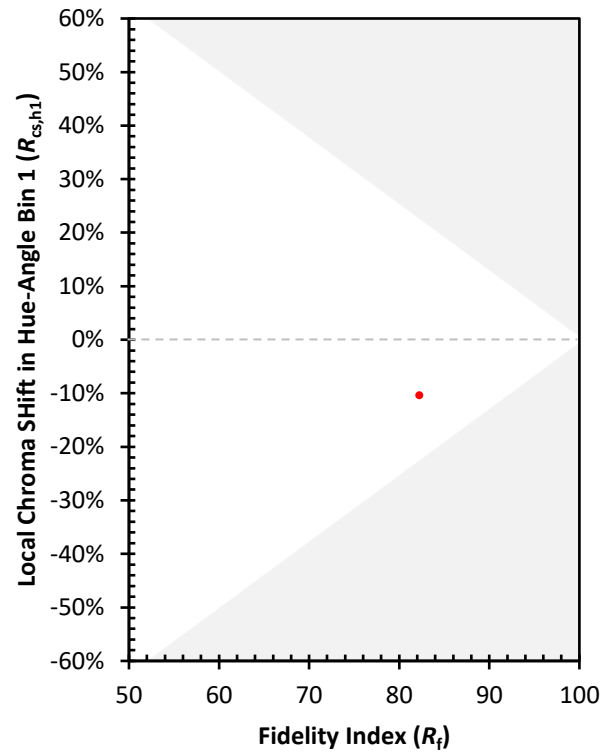
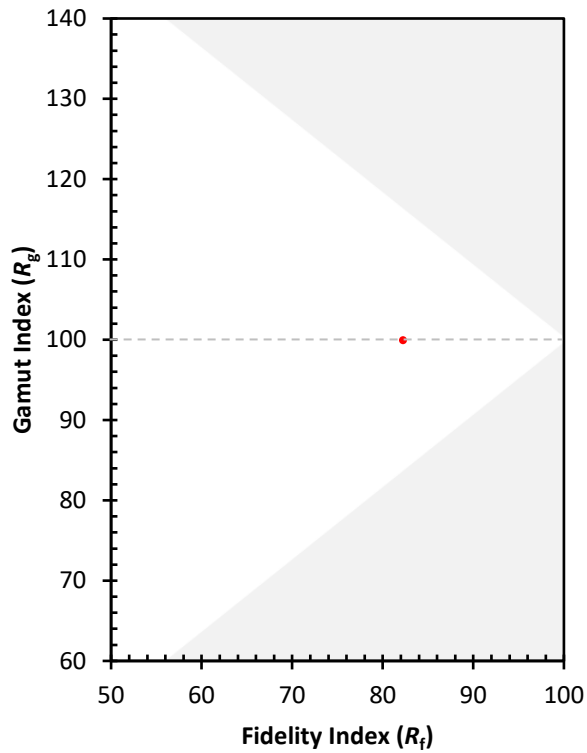
CES01 = 86	CES26 = 76	CES51 = 89	CES76 = 75
CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82 = 95
CES08 = 42	CES33 = 71	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 84	CES59 = 93	CES84 = 94
CES10 = 77	CES35 = 92	CES60 = 96	CES85 = 83
CES11 = 59	CES36 = 92	CES61 = 94	CES86 = 69
CES12 = 66	CES37 = 89	CES62 = 84	CES87 = 85
CES13 = 44	CES38 = 75	CES63 = 79	CES88 = 84
CES14 = 74	CES39 = 93	CES64 = 85	CES89 = 74
CES15 = 72	CES40 = 89	CES65 = 79	CES90 = 81
CES16 = 48	CES41 = 85	CES66 = 83	CES91 = 96
CES17 = 50	CES42 = 88	CES67 = 82	CES92 = 72
CES18 = 57	CES43 = 81	CES68 = 86	CES93 = 84
CES19 = 73	CES44 = 98	CES69 = 92	CES94 = 63
CES20 = 67	CES45 = 87	CES70 = 81	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 81	CES96 = 85
CES22 = 79	CES47 = 76	CES72 = 93	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 75	CES98 = 82
CES24 = 91	CES49 = 81	CES74 = 91	CES99 = 76
CES25 = 72	CES50 = 88	CES75 = 79	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)