

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: P1049710

Luminaire Tested: **GALN-SA9B-760-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049710
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-760-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 9xLight Square PACKAGE
70CRI 5700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (126) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36310.7 lumens
Efficiency: N/A
Efficacy: 116.1 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): 312.7
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

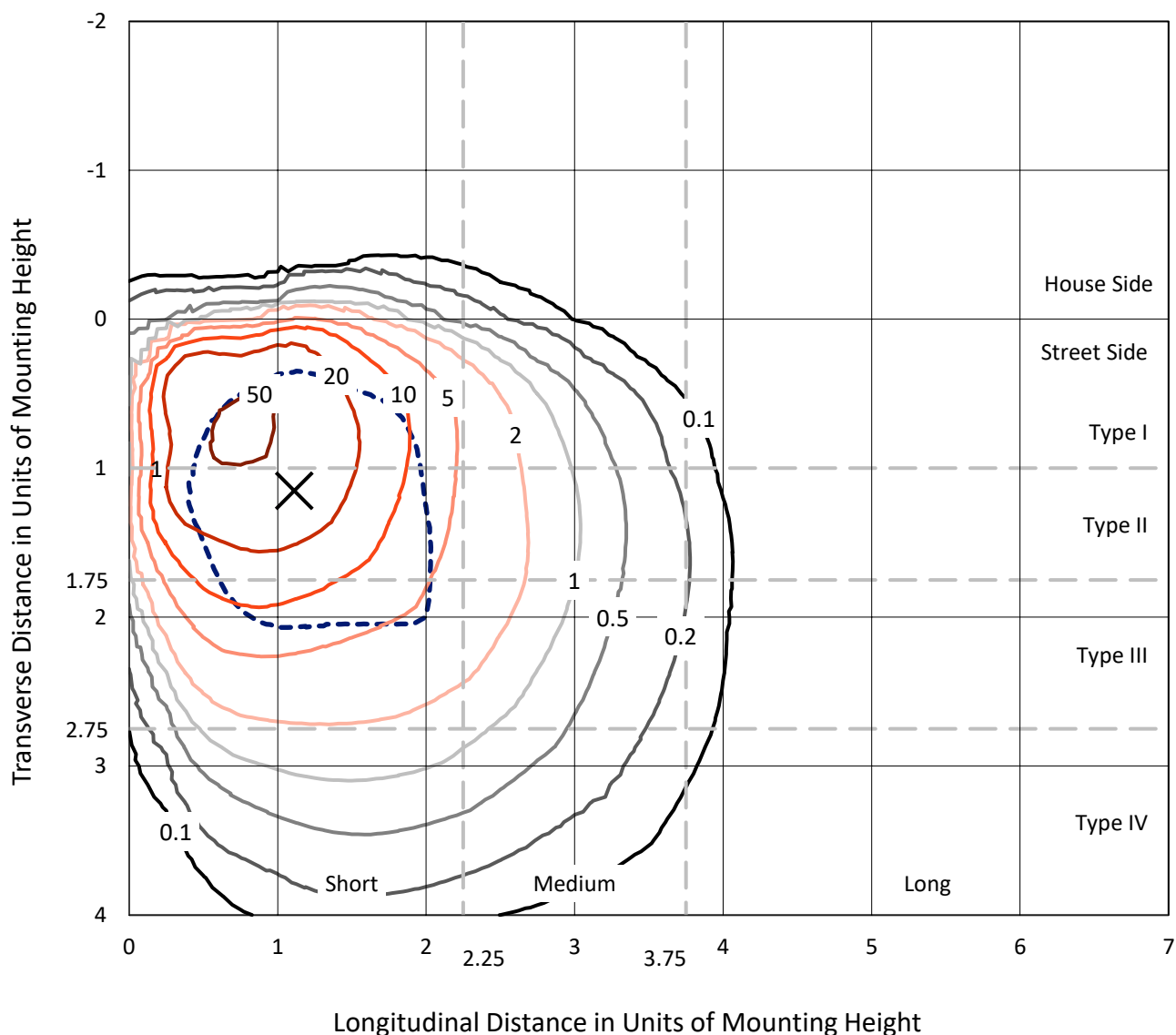
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

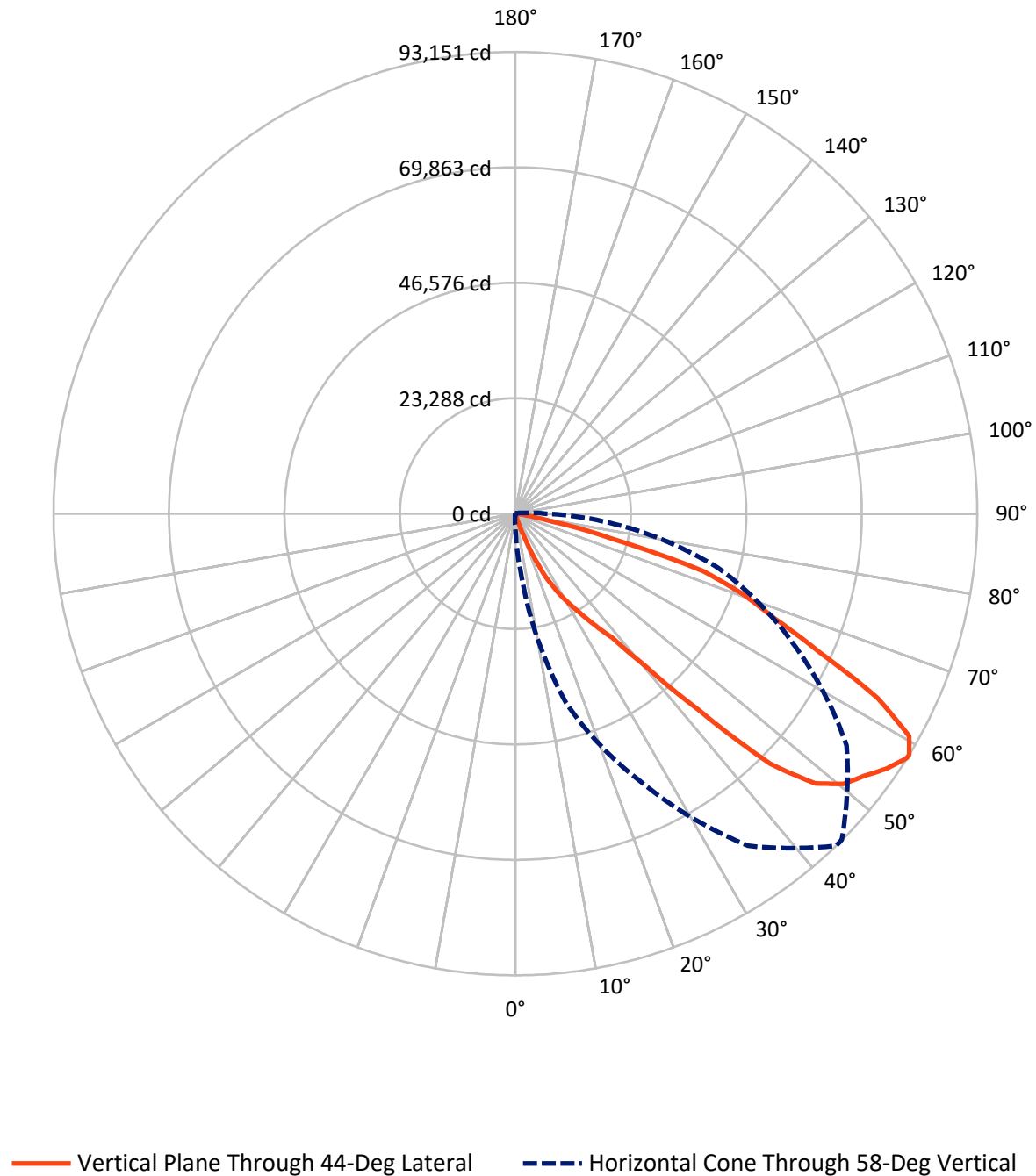
--- 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 63.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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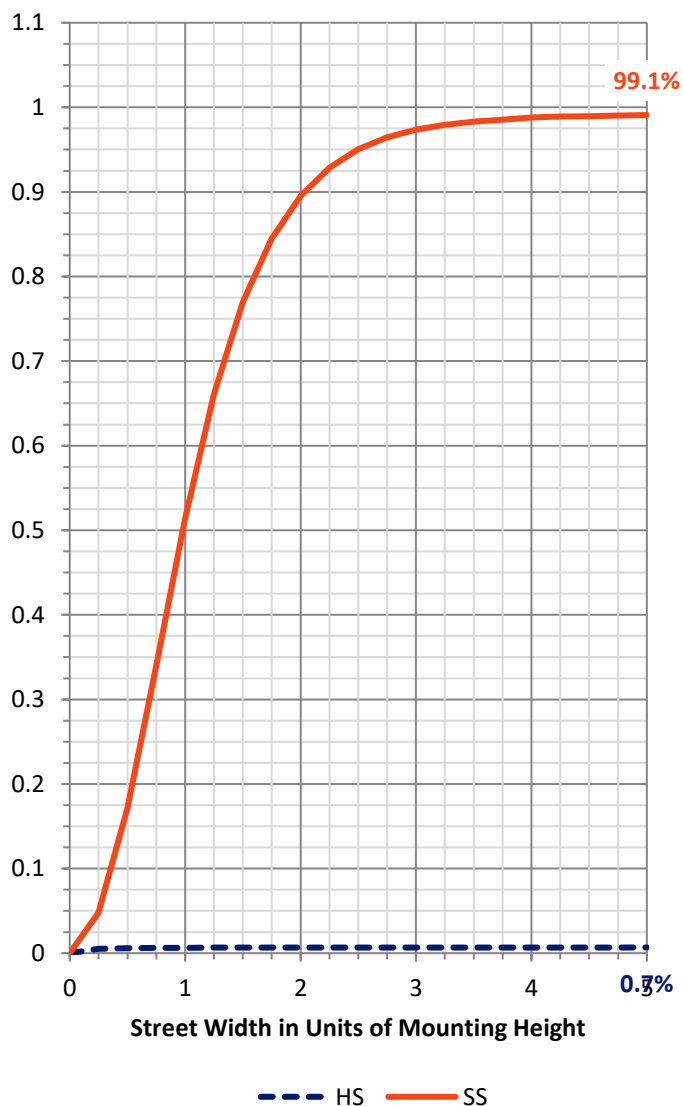
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	247.9	0.0	247.9
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	36062.8	0.0	36062.8
	% Fixture	99.3	0.0	99.3
Total	Lumens	36310.7	0.0	36310.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.2	0.0
10°-20°	79.6	0.2
20°-30°	860.2	2.4
30°-40°	2543.9	7.0
40°-50°	7582.3	20.9
50°-60°	12031.2	33.1
60°-70°	10035.5	27.6
70°-80°	3095.1	8.5
80°-90°	68.7	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°	36310.7	100.0
0°-180°	36310.7	100.0



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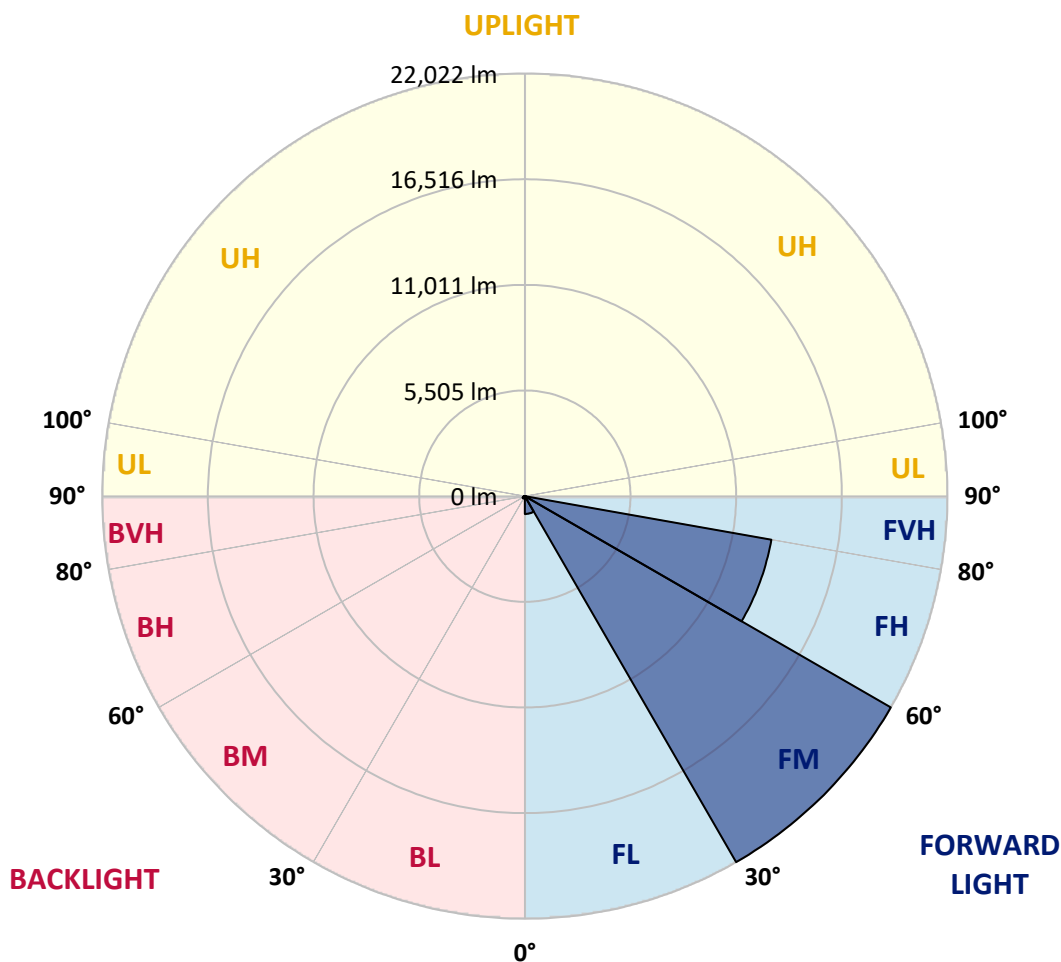
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	929.8	2.6			
FM	(30°-60°)	22021.7	60.6			
FH	(60°-80°)	13045.9	35.9			G5
FVH	(80°-90°)	65.4	0.2			G1/100
BL	(0°-30°)	24.3	0.1	B0/110		
BM	(30°-60°)	135.7	0.4	B0/220		
BH	(60°-80°)	84.6	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°	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
2.5°	205.7	205.7	197.5	186.5	175.5	164.6	161.8	156.3	153.6	150.9
5°	214.0	214.0	211.2	203.0	192.0	183.8	183.8	175.5	170.1	164.6
7.5°	219.4	222.2	227.7	224.9	219.4	211.2	211.2	205.7	197.5	183.8
10°	227.7	235.9	246.9	252.4	255.1	255.1	252.4	249.6	235.9	216.7
12.5°	235.9	252.4	279.8	307.2	323.7	345.6	342.9	337.4	301.7	260.6
15°	252.4	277.0	334.6	414.2	537.6	614.4	644.6	617.2	499.2	351.1
17.5°	271.6	312.7	485.5	866.8	1420.9	1684.2	1843.3	1714.4	1135.6	666.5
20°	290.8	381.3	902.4	2246.5	3686.5	4547.8	4786.5	4413.4	2833.5	1270.0
22.5°	323.7	534.9	1829.6	4643.8	7943.6	9235.6	9479.7	8286.5	5351.5	2507.1
25°	392.2	776.3	3154.4	7567.8	11855.1	14035.8	13934.3	12370.8	8681.5	4004.7
27.5°	491.0	1130.1	4770.0	10752.4	15602.0	17524.8	17755.2	15821.4	11572.6	5889.2
30°	633.6	1566.2	6503.6	13303.4	18605.5	20684.7	20723.1	18723.5	14159.2	7543.2
32.5°	770.8	1977.7	8020.4	15769.3	21565.2	23844.6	24014.7	21554.2	16090.2	9265.7
35°	875.0	2246.5	9556.5	17936.3	24549.6	27690.3	27679.3	24758.0	18377.9	10804.5
37.5°	883.2	2515.3	10947.2	20152.6	28329.4	31845.9	32194.2	28974.0	21142.8	12708.2
40°	864.0	2817.0	12708.2	23608.7	35140.2	40535.6	40842.8	36783.2	26689.1	15966.8
42.5°	886.0	3340.9	15566.3	29991.6	46449.4	54198.3	54790.8	50522.7	36884.7	22615.8
45°	1001.2	4325.7	21554.2	40670.0	62569.8	72016.6	71819.1	65672.1	48748.0	32737.3
47.5°	1382.5	6736.7	30430.5	51063.1	72872.4	81285.1	81455.2	73942.2	55671.3	40519.1
50°	2125.8	10308.1	37888.6	56557.2	77302.3	85742.4	85583.3	76901.8	58301.8	44351.0
52.5°	2764.9	12891.9	41630.0	58485.6	77870.1	87945.0	87934.1	77680.8	58710.5	44680.2
55°	2924.0	13086.7	41660.2	58589.8	79142.8	90827.9	91190.0	79598.2	59239.9	43242.9
57.5°	2860.9	11586.3	39921.2	59193.2	81408.5	93057.9	93077.1	81455.2	60583.9	42362.4
58°	2806.1	11350.4	39570.1	59536.1	81798.0	93151.2	93104.5	81540.2	61678.4	42329.5
60°	2498.8	9855.5	38201.3	60411.1	81219.3	91236.6	90800.5	79683.2	61516.5	41992.1
62.5°	1964.0	7688.5	36854.5	59399.0	75014.7	81968.1	82149.1	70546.4	56080.0	40025.4
65°	1563.5	5730.1	34045.7	52102.7	61771.6	67312.4	67987.2	57366.4	46808.7	33892.1
67.5°	1245.3	4141.9	28559.8	41481.9	48879.7	56178.7	56669.7	48163.8	36264.8	25967.7
70°	1012.2	2800.6	19713.7	30337.2	40316.1	48523.1	48553.3	40011.7	27067.6	17014.6
72.5°	897.0	1939.3	11443.7	22124.8	32690.7	39539.9	38741.7	32468.5	20802.7	10077.7
75°	776.3	1286.5	5612.1	13525.6	19820.7	19955.1	20259.6	15061.6	10398.6	4792.0
77.5°	639.1	913.4	2210.8	3694.8	5944.0	7609.0	7891.5	5979.7	3458.9	1179.5
80°	438.9	433.4	595.2	1132.8	1700.6	2131.3	1988.7	1538.8	905.2	452.6
82.5°	189.3	205.7	268.8	323.7	263.3	255.1	244.1	156.3	120.7	93.3
85°	60.3	54.9	57.6	57.6	46.6	35.7	35.7	16.5	0.0	0.0
87.5°	30.2	24.7	24.7	21.9	13.7	5.5	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°
159.1	0°	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
148.1	2.5°	145.4	145.4	139.9	134.4	131.7	126.2	123.4	120.7	117.9	115.2
159.1	5°	153.6	150.9	142.6	134.4	126.2	117.9	112.5	107.0	101.5	98.7
175.5	7.5°	167.3	161.8	145.4	131.7	120.7	109.7	104.2	96.0	90.5	82.3
194.8	10°	183.8	172.8	150.9	134.4	117.9	104.2	96.0	87.8	79.5	68.6
222.2	12.5°	205.7	186.5	159.1	131.7	112.5	96.0	87.8	76.8	68.6	60.3
257.8	15°	224.9	200.2	161.8	131.7	107.0	87.8	76.8	65.8	57.6	46.6
323.7	17.5°	252.4	211.2	159.1	123.4	98.7	76.8	65.8	57.6	43.9	27.4
480.0	20°	299.0	219.4	153.6	115.2	85.0	63.1	49.4	38.4	19.2	5.5
721.4	22.5°	373.0	241.4	148.1	104.2	74.1	49.4	32.9	13.7	0.0	0.0
1097.2	25°	515.7	279.8	148.1	98.7	65.8	35.7	11.0	0.0	0.0	0.0
1558.0	27.5°	685.7	331.9	148.1	85.0	52.1	19.2	0.0	0.0	0.0	0.0
2123.1	30°	858.5	389.5	148.1	74.1	41.1	2.7	0.0	0.0	0.0	0.0
2614.0	32.5°	1023.1	438.9	150.9	63.1	27.4	0.0	0.0	0.0	0.0	0.0
3294.3	35°	1190.4	447.1	148.1	54.9	16.5	0.0	0.0	0.0	0.0	0.0
4128.2	37.5°	1404.4	430.6	139.9	49.4	8.2	0.0	0.0	0.0	0.0	0.0
5431.1	40°	1728.1	438.9	131.7	46.6	2.7	0.0	0.0	0.0	0.0	0.0
7754.4	42.5°	2326.0	474.5	120.7	46.6	0.0	0.0	0.0	0.0	0.0	0.0
12351.6	45°	4021.2	636.4	109.7	49.4	0.0	0.0	0.0	0.0	0.0	0.0
18542.5	47.5°	6651.7	1143.8	107.0	49.4	0.0	0.0	0.0	0.0	0.0	0.0
22336.0	50°	8489.5	1440.1	112.5	52.1	0.0	0.0	0.0	0.0	0.0	0.0
22810.5	52.5°	8475.8	1604.6	117.9	54.9	11.0	0.0	0.0	0.0	0.0	0.0
21024.8	55°	7534.9	1634.8	126.2	60.3	35.7	0.0	0.0	0.0	0.0	0.0
18067.9	57.5°	6297.9	1492.2	145.4	74.1	65.8	0.0	0.0	0.0	0.0	0.0
17604.4	58°	6078.4	1426.3	150.9	76.8	71.3	0.0	0.0	0.0	0.0	0.0
15270.1	60°	4981.2	1163.0	192.0	96.0	96.0	0.0	0.0	0.0	0.0	0.0
12518.9	62.5°	3439.7	1014.9	219.4	123.4	98.7	0.0	0.0	0.0	0.0	0.0
9230.1	65°	2433.0	916.2	238.6	131.7	79.5	0.0	0.0	0.0	0.0	0.0
6558.4	67.5°	1818.6	844.8	263.3	134.4	41.1	0.0	0.0	0.0	0.0	0.0
4114.5	70°	1393.4	792.7	323.7	142.6	11.0	0.0	0.0	0.0	0.0	0.0
2452.2	72.5°	1135.6	732.4	392.2	148.1	0.0	0.0	0.0	0.0	0.0	0.0
1470.2	75°	940.8	661.1	378.5	161.8	0.0	0.0	0.0	0.0	0.0	0.0
784.5	77.5°	625.4	512.9	345.6	161.8	0.0	0.0	0.0	0.0	0.0	0.0
279.8	80°	219.4	203.0	268.8	142.6	0.0	0.0	0.0	0.0	0.0	0.0
57.6	82.5°	32.9	27.4	38.4	49.4	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°
159.1	0°	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
112.5	2.5°	112.5	112.5	109.7	112.5	112.5	117.9	131.7	150.9	172.8	181.0
96.0	5°	93.3	90.5	87.8	87.8	87.8	96.0	107.0	128.9	153.6	164.6
79.5	7.5°	76.8	74.1	71.3	68.6	68.6	74.1	87.8	112.5	137.1	148.1
65.8	10°	63.1	57.6	54.9	52.1	52.1	57.6	71.3	96.0	123.4	134.4
54.9	12.5°	52.1	43.9	38.4	35.7	32.9	41.1	54.9	76.8	107.0	120.7
41.1	15°	35.7	27.4	19.2	16.5	13.7	21.9	35.7	60.3	90.5	107.0
21.9	17.5°	19.2	8.2	2.7	0.0	0.0	5.5	16.5	43.9	74.1	87.8
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.9	54.9	68.6
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	32.9	46.6
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.7	24.7
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
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	8.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	21.9
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°
159.1	0°	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
189.3	2.5°	194.8	192.0	186.5	181.0	181.0	181.0	189.3	197.5	205.7	205.7
170.1	5°	181.0	181.0	178.3	172.8	172.8	175.5	186.5	200.2	211.2	214.0
156.3	7.5°	167.3	172.8	167.3	164.6	167.3	170.1	181.0	197.5	214.0	219.4
145.4	10°	159.1	161.8	161.8	159.1	159.1	164.6	175.5	197.5	219.4	227.7
131.7	12.5°	148.1	153.6	150.9	150.9	150.9	156.3	170.1	194.8	224.9	235.9
117.9	15°	137.1	145.4	145.4	142.6	142.6	145.4	164.6	192.0	233.2	252.4
101.5	17.5°	126.2	134.4	137.1	131.7	131.7	137.1	156.3	192.0	238.6	271.6
82.3	20°	104.2	117.9	126.2	117.9	117.9	123.4	142.6	181.0	241.4	290.8
60.3	22.5°	82.3	96.0	107.0	104.2	104.2	107.0	131.7	172.8	244.1	323.7
35.7	25°	60.3	74.1	82.3	87.8	87.8	96.0	120.7	167.3	255.1	392.2
16.5	27.5°	35.7	52.1	63.1	68.6	71.3	82.3	112.5	161.8	274.3	491.0
0.0	30°	16.5	30.2	43.9	54.9	54.9	74.1	104.2	156.3	299.0	633.6
0.0	32.5°	0.0	13.7	21.9	38.4	41.1	60.3	96.0	150.9	334.6	770.8
0.0	35°	0.0	0.0	11.0	30.2	30.2	49.4	87.8	145.4	389.5	875.0
0.0	37.5°	0.0	0.0	0.0	21.9	24.7	43.9	85.0	142.6	400.5	883.2
0.0	40°	0.0	0.0	0.0	16.5	19.2	41.1	85.0	145.4	362.1	864.0
0.0	42.5°	0.0	0.0	0.0	11.0	13.7	41.1	85.0	150.9	326.4	886.0
0.0	45°	0.0	0.0	0.0	8.2	11.0	43.9	82.3	148.1	307.2	1001.2
0.0	47.5°	0.0	0.0	0.0	11.0	16.5	43.9	79.5	145.4	310.0	1382.5
0.0	50°	0.0	0.0	0.0	13.7	19.2	43.9	82.3	139.9	340.1	2125.8
0.0	52.5°	0.0	0.0	0.0	11.0	16.5	49.4	90.5	137.1	370.3	2764.9
0.0	55°	0.0	0.0	0.0	2.7	8.2	63.1	98.7	137.1	416.9	2924.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	71.3	112.5	145.4	493.7	2860.9
0.0	58°	0.0	0.0	0.0	0.0	0.0	71.3	115.2	145.4	499.2	2806.1
0.0	60°	0.0	0.0	0.0	0.0	0.0	71.3	126.2	161.8	537.6	2498.8
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	60.3	150.9	203.0	559.6	1964.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	49.4	178.3	222.2	576.0	1563.5
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	46.6	183.8	224.9	584.3	1245.3
0.0	70°	0.0	0.0	0.0	0.0	0.0	49.4	181.0	241.4	611.7	1012.2
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	54.9	164.6	266.1	611.7	897.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	57.6	153.6	299.0	556.8	776.3
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	54.9	150.9	348.4	496.5	639.1
0.0	80°	5.5	8.2	8.2	5.5	5.5	46.6	148.1	353.8	422.4	438.9
2.7	82.5°	16.5	21.9	19.2	13.7	13.7	41.1	131.7	296.2	219.4	189.3
16.5	85°	30.2	35.7	35.7	30.2	30.2	38.4	82.3	107.0	74.1	60.3
30.2	87.5°	41.1	46.6	46.6	41.1	41.1	38.4	35.7	32.9	30.2	30.2
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: SP1-2407-184-7

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-757-U-5WQ

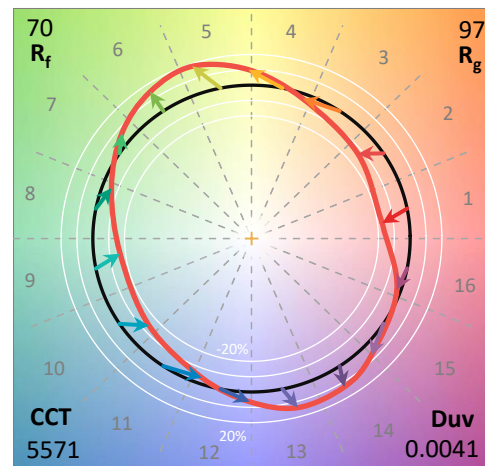
Data in this report applies to families of products including GSS-SB1A-757-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-7
 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-757-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 5700K CCT 26 LEDS

Spectral Parameters

CCT (K):	5571	CRI (Ra):	69.9		
CIE u':	0.2033	R1:	68.8	R9:	-35.4
CIE v':	0.4806	R2:	72.5	R10:	36.7
Duv:	0.0041	R3:	76.8	R11:	73.9
CIE x:	0.3308	R4:	72.0	R12:	47.8
CIE y:	0.3476	R5:	70.9	R13:	68.0
CIE z:	0.3216	R6:	65.6	R14:	87.0
Peak Wavelength (nm):	442	R7:	75.5	R15:	59.8
Dominant Wavelength (nm):	544	R8:	56.8		
Purity:	3.635698				
Rf:	70.4				
Rg:	97.1				



Test Conditions

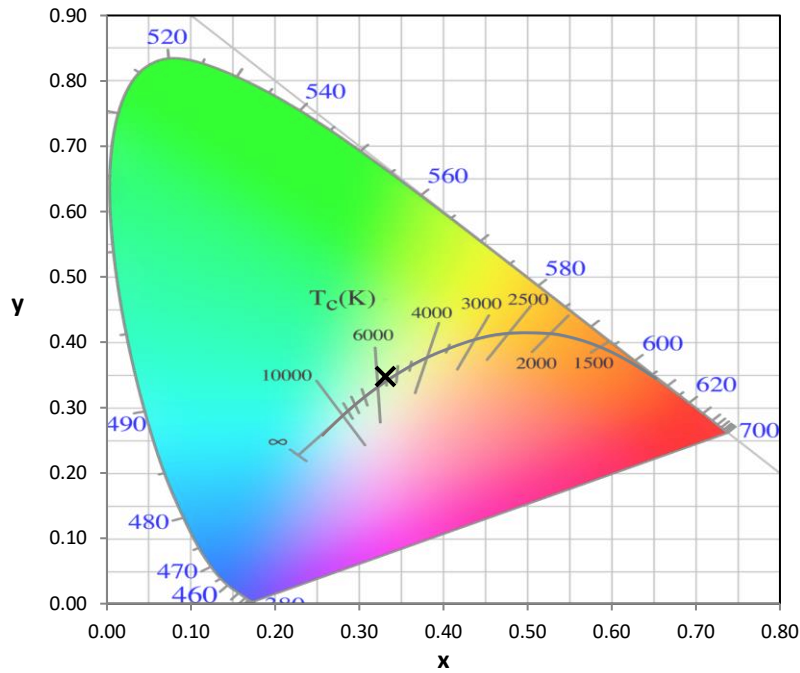
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-7

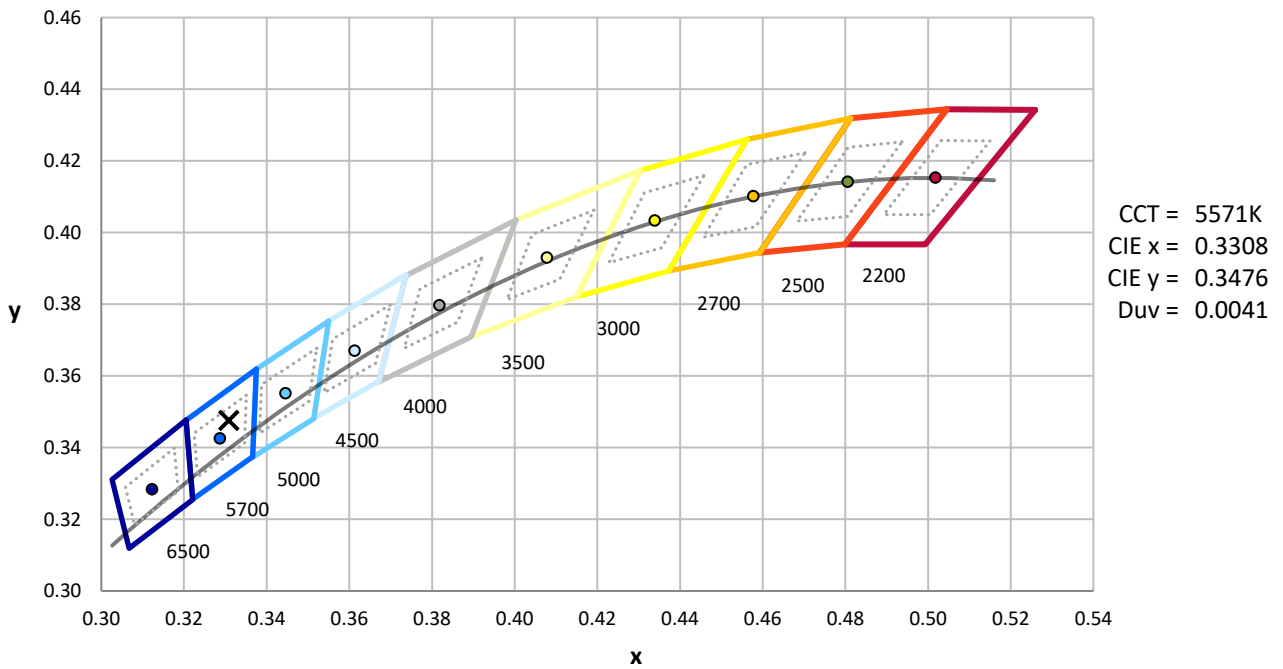
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



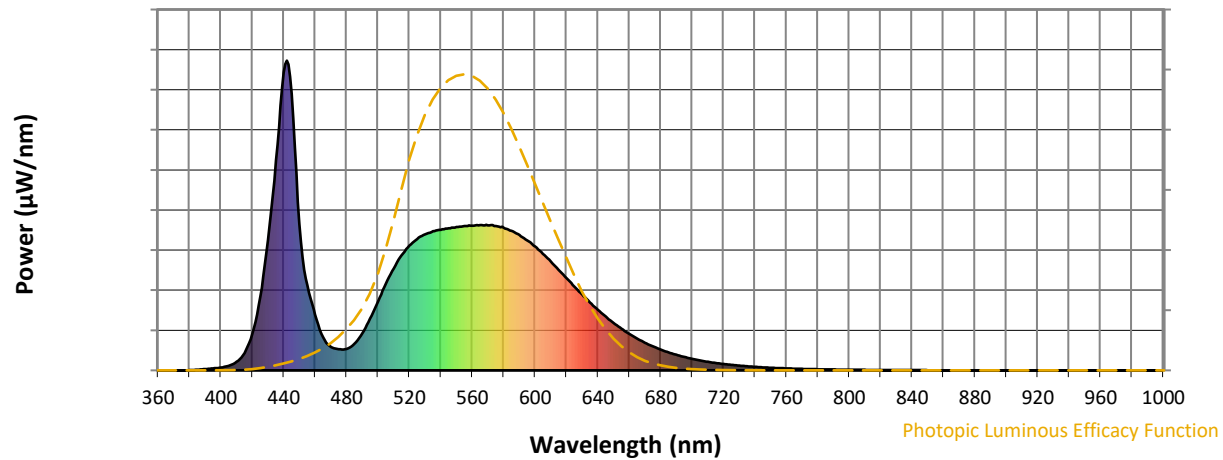
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-7

Photopic Flux vs. Wavelength

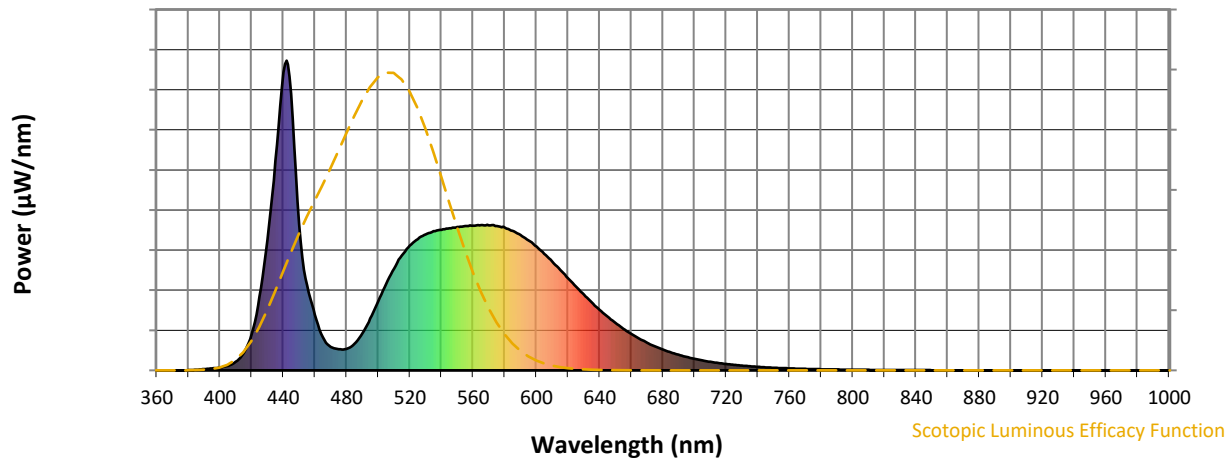


Photopic Lumens: NR

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	120	NR	620	298	NR	750	9	NR	880	0	NR
365	0	NR	495	167	NR	625	270	NR	755	7	NR	885	0	NR
370	0	NR	500	222	NR	630	245	NR	760	6	NR	890	0	NR
375	0	NR	505	279	NR	635	219	NR	765	6	NR	895	0	NR
380	1	NR	510	329	NR	640	196	NR	770	5	NR	900	0	NR
385	2	NR	515	371	NR	645	173	NR	775	4	NR	905	0	NR
390	4	NR	520	403	NR	650	153	NR	780	4	NR	910	0	NR
395	6	NR	525	424	NR	655	135	NR	785	3	NR	915	0	NR
400	9	NR	530	439	NR	660	117	NR	790	3	NR	920	0	NR
405	14	NR	535	449	NR	665	103	NR	795	2	NR	925	0	NR
410	28	NR	540	454	NR	670	89	NR	800	2	NR	930	0	NR
415	55	NR	545	459	NR	675	77	NR	805	2	NR	935	0	NR
420	118	NR	550	463	NR	680	67	NR	810	2	NR	940	0	NR
425	237	NR	555	466	NR	685	58	NR	815	1	NR	945	0	NR
430	420	NR	560	467	NR	690	50	NR	820	1	NR	950	0	NR
435	677	NR	565	469	NR	695	43	NR	825	1	NR	955	0	NR
440	962	NR	570	469	NR	700	37	NR	830	1	NR	960	0	NR
445	894	NR	575	466	NR	705	32	NR	835	1	NR	965	0	NR
450	472	NR	580	461	NR	710	28	NR	840	1	NR	970	0	NR
455	275	NR	585	450	NR	715	24	NR	845	1	NR	975	0	NR
460	180	NR	590	437	NR	720	21	NR	850	1	NR	980	0	NR
465	107	NR	595	420	NR	725	18	NR	855	0	NR	985	0	NR
470	76	NR	600	400	NR	730	15	NR	860	0	NR	990	0	NR
475	68	NR	605	376	NR	735	13	NR	865	0	NR	995	0	NR
480	69	NR	610	352	NR	740	11	NR	870	0	NR	1000	0	NR
485	86	NR	615	325	NR	745	10	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-7

Scotopic Flux vs. Wavelength



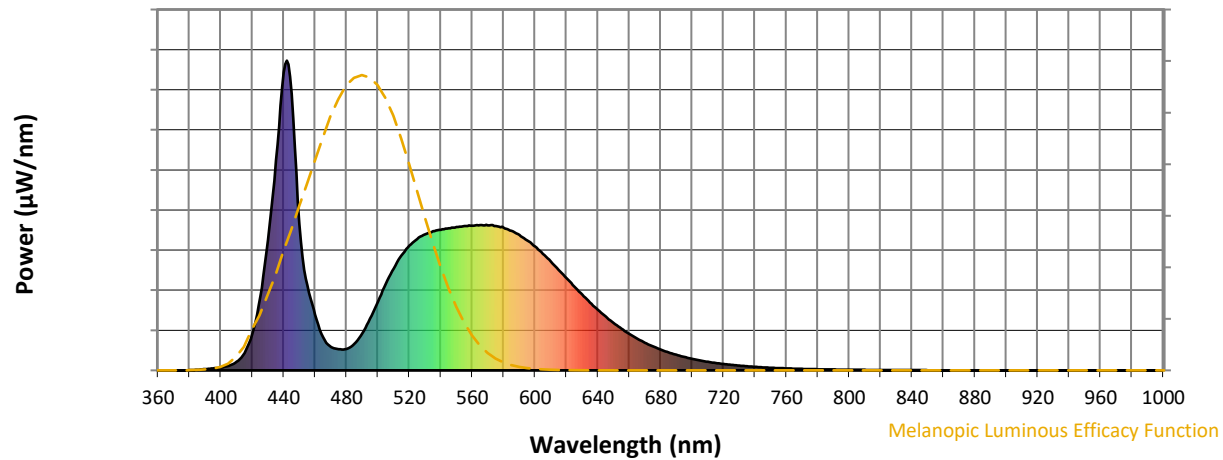
Scotopic Lumens: NR

S/P: 1.84

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	120	NR	620	298	NR	750	9	NR	880	0	NR
365	0	NR	495	167	NR	625	270	NR	755	7	NR	885	0	NR
370	0	NR	500	222	NR	630	245	NR	760	6	NR	890	0	NR
375	0	NR	505	279	NR	635	219	NR	765	6	NR	895	0	NR
380	1	NR	510	329	NR	640	196	NR	770	5	NR	900	0	NR
385	2	NR	515	371	NR	645	173	NR	775	4	NR	905	0	NR
390	4	NR	520	403	NR	650	153	NR	780	4	NR	910	0	NR
395	6	NR	525	424	NR	655	135	NR	785	3	NR	915	0	NR
400	9	NR	530	439	NR	660	117	NR	790	3	NR	920	0	NR
405	14	NR	535	449	NR	665	103	NR	795	2	NR	925	0	NR
410	28	NR	540	454	NR	670	89	NR	800	2	NR	930	0	NR
415	55	NR	545	459	NR	675	77	NR	805	2	NR	935	0	NR
420	118	NR	550	463	NR	680	67	NR	810	2	NR	940	0	NR
425	237	NR	555	466	NR	685	58	NR	815	1	NR	945	0	NR
430	420	NR	560	467	NR	690	50	NR	820	1	NR	950	0	NR
435	677	NR	565	469	NR	695	43	NR	825	1	NR	955	0	NR
440	962	NR	570	469	NR	700	37	NR	830	1	NR	960	0	NR
445	894	NR	575	466	NR	705	32	NR	835	1	NR	965	0	NR
450	472	NR	580	461	NR	710	28	NR	840	1	NR	970	0	NR
455	275	NR	585	450	NR	715	24	NR	845	1	NR	975	0	NR
460	180	NR	590	437	NR	720	21	NR	850	1	NR	980	0	NR
465	107	NR	595	420	NR	725	18	NR	855	0	NR	985	0	NR
470	76	NR	600	400	NR	730	15	NR	860	0	NR	990	0	NR
475	68	NR	605	376	NR	735	13	NR	865	0	NR	995	0	NR
480	69	NR	610	352	NR	740	11	NR	870	0	NR	1000	0	NR
485	86	NR	615	325	NR	745	10	NR	875	0	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.71

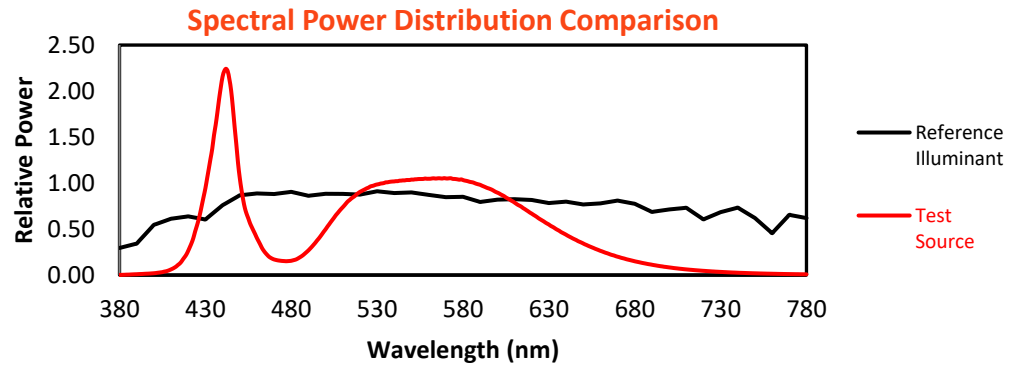
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	120	NR	620	298	NR	750	9	NR	880	0	NR
365	0	NR	495	167	NR	625	270	NR	755	7	NR	885	0	NR
370	0	NR	500	222	NR	630	245	NR	760	6	NR	890	0	NR
375	0	NR	505	279	NR	635	219	NR	765	6	NR	895	0	NR
380	1	NR	510	329	NR	640	196	NR	770	5	NR	900	0	NR
385	2	NR	515	371	NR	645	173	NR	775	4	NR	905	0	NR
390	4	NR	520	403	NR	650	153	NR	780	4	NR	910	0	NR
395	6	NR	525	424	NR	655	135	NR	785	3	NR	915	0	NR
400	9	NR	530	439	NR	660	117	NR	790	3	NR	920	0	NR
405	14	NR	535	449	NR	665	103	NR	795	2	NR	925	0	NR
410	28	NR	540	454	NR	670	89	NR	800	2	NR	930	0	NR
415	55	NR	545	459	NR	675	77	NR	805	2	NR	935	0	NR
420	118	NR	550	463	NR	680	67	NR	810	2	NR	940	0	NR
425	237	NR	555	466	NR	685	58	NR	815	1	NR	945	0	NR
430	420	NR	560	467	NR	690	50	NR	820	1	NR	950	0	NR
435	677	NR	565	469	NR	695	43	NR	825	1	NR	955	0	NR
440	962	NR	570	469	NR	700	37	NR	830	1	NR	960	0	NR
445	894	NR	575	466	NR	705	32	NR	835	1	NR	965	0	NR
450	472	NR	580	461	NR	710	28	NR	840	1	NR	970	0	NR
455	275	NR	585	450	NR	715	24	NR	845	1	NR	975	0	NR
460	180	NR	590	437	NR	720	21	NR	850	1	NR	980	0	NR
465	107	NR	595	420	NR	725	18	NR	855	0	NR	985	0	NR
470	76	NR	600	400	NR	730	15	NR	860	0	NR	990	0	NR
475	68	NR	605	376	NR	735	13	NR	865	0	NR	995	0	NR
480	69	NR	610	352	NR	740	11	NR	870	0	NR	1000	0	NR
485	86	NR	615	325	NR	745	10	NR	875	0	NR			

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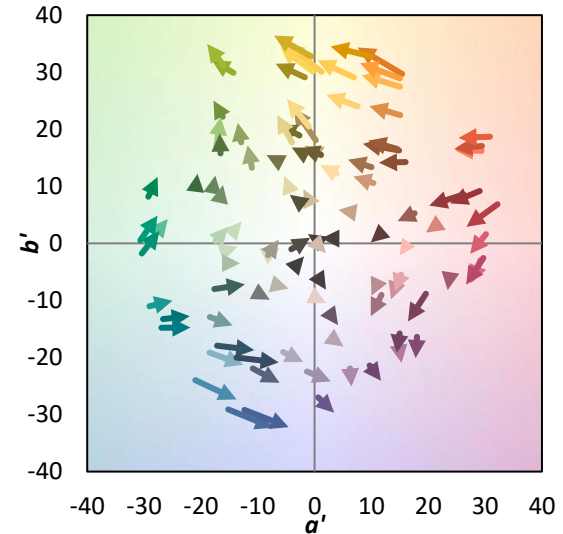
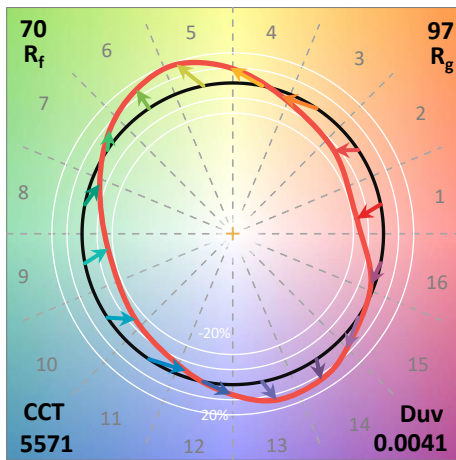
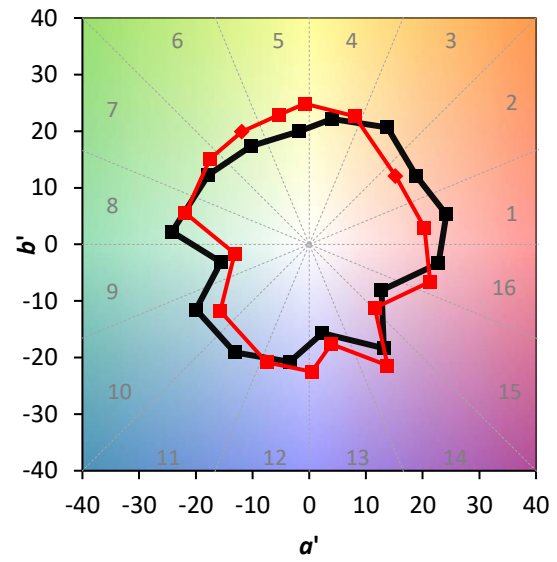
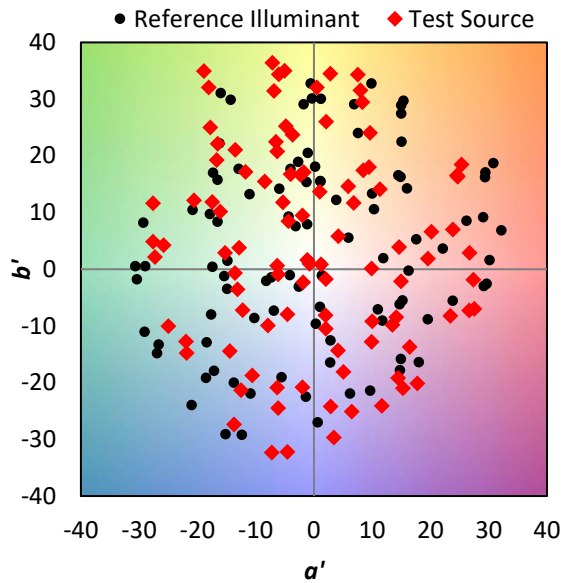
TM-30-18

Summary

$R_f = 70.4$
 $R_g = 97.1$
 $CIE R_a = 69.9$
 $R_g = -35.4$

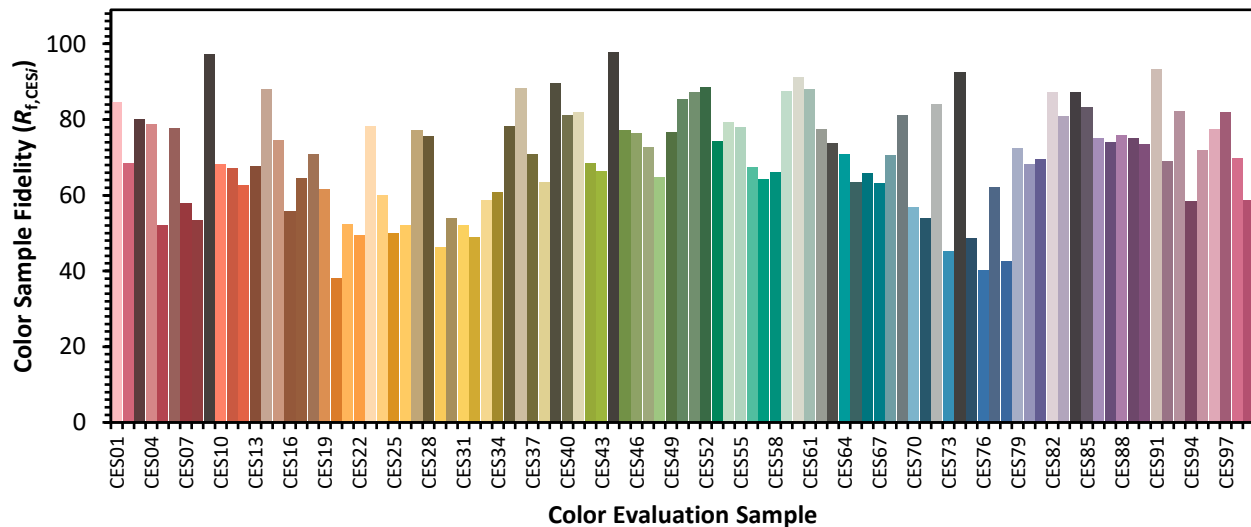


Color Vector Graphics

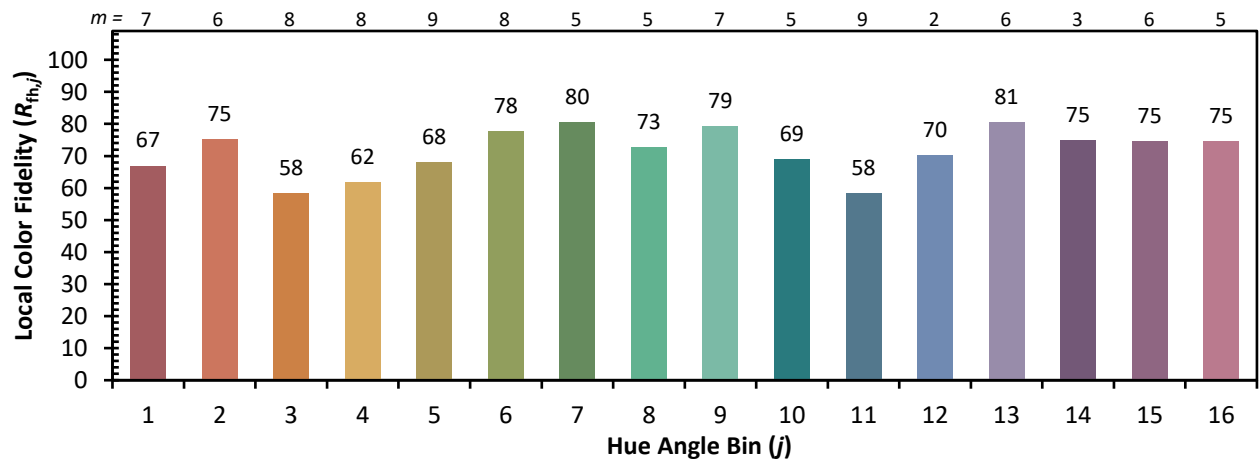
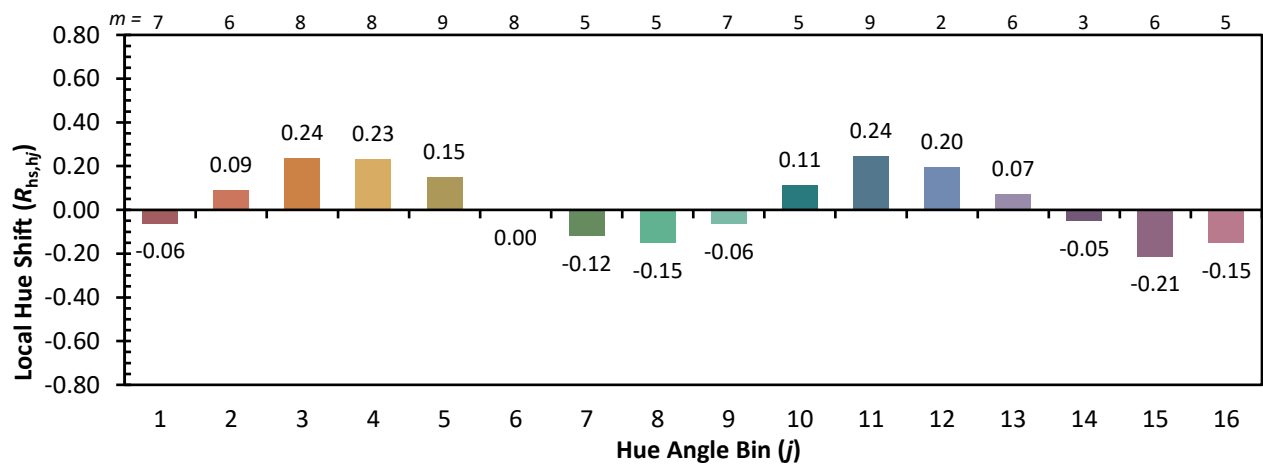
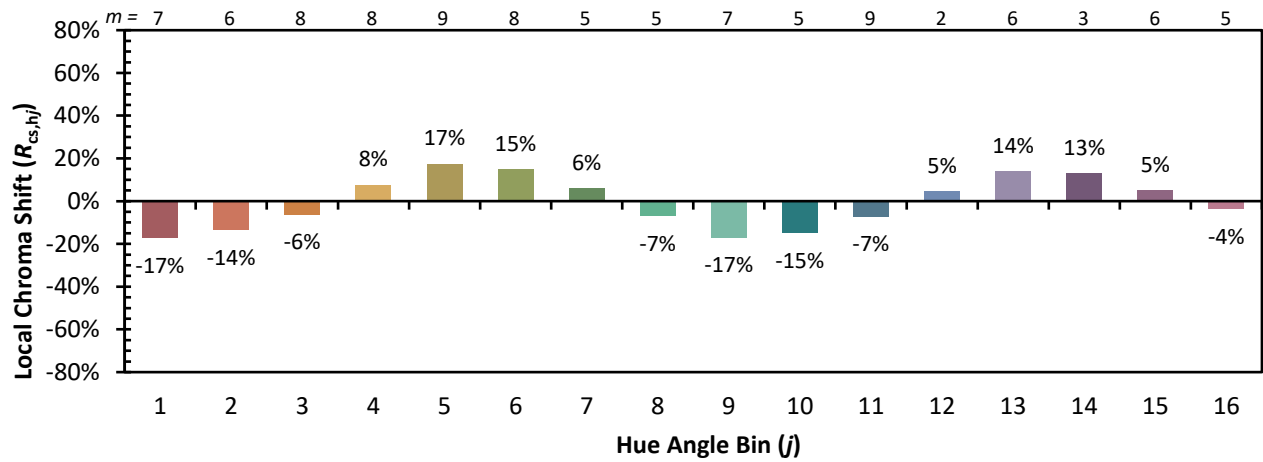


Individual Sample Fidelity Index ($R_{f,i}$)

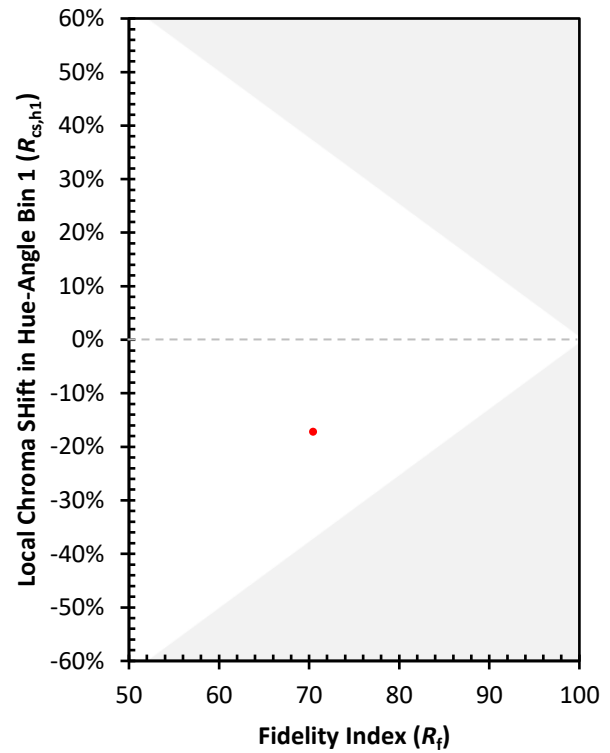
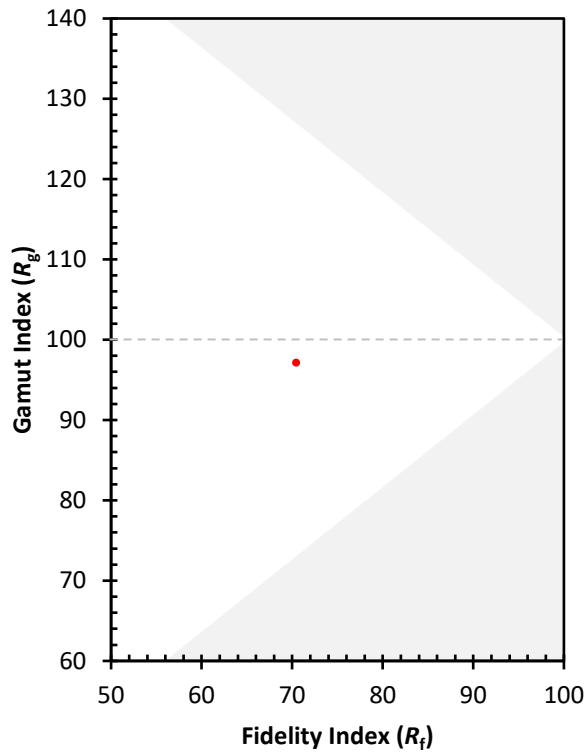
CES01 = 85	CES26 = 52	CES51 = 87	CES76 = 40
CES02 = 59	CES27 = 77	CES52 = 88	CES77 = 62
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 43
CES04 = 68	CES29 = 46	CES54 = 79	CES79 = 72
CES05 = 45	CES30 = 54	CES55 = 78	CES80 = 68
CES06 = 49	CES31 = 52	CES56 = 67	CES81 = 70
CES07 = 38	CES32 = 49	CES57 = 64	CES82 = 87
CES08 = 37	CES33 = 59	CES58 = 66	CES83 = 81
CES09 = 29	CES34 = 61	CES59 = 87	CES84 = 87
CES10 = 72	CES35 = 78	CES60 = 91	CES85 = 83
CES11 = 55	CES36 = 88	CES61 = 88	CES86 = 75
CES12 = 61	CES37 = 71	CES62 = 77	CES87 = 74
CES13 = 41	CES38 = 64	CES63 = 74	CES88 = 76
CES14 = 74	CES39 = 90	CES64 = 71	CES89 = 75
CES15 = 70	CES40 = 81	CES65 = 63	CES90 = 73
CES16 = 46	CES41 = 82	CES66 = 66	CES91 = 93
CES17 = 48	CES42 = 69	CES67 = 63	CES92 = 69
CES18 = 55	CES43 = 67	CES68 = 71	CES93 = 82
CES19 = 70	CES44 = 98	CES69 = 81	CES94 = 58
CES20 = 63	CES45 = 77	CES70 = 57	CES95 = 72
CES21 = 85	CES46 = 76	CES71 = 54	CES96 = 78
CES22 = 77	CES47 = 73	CES72 = 84	CES97 = 82
CES23 = 91	CES48 = 65	CES73 = 45	CES98 = 70
CES24 = 90	CES49 = 77	CES74 = 92	CES99 = 59
CES25 = 71	CES50 = 85	CES75 = 49	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)