

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: P1050065

Luminaire Tested: **GALN-SA8A-950-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1050065
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-950-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 8xLight Square PACKAGE
90CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (112) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20614.6 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

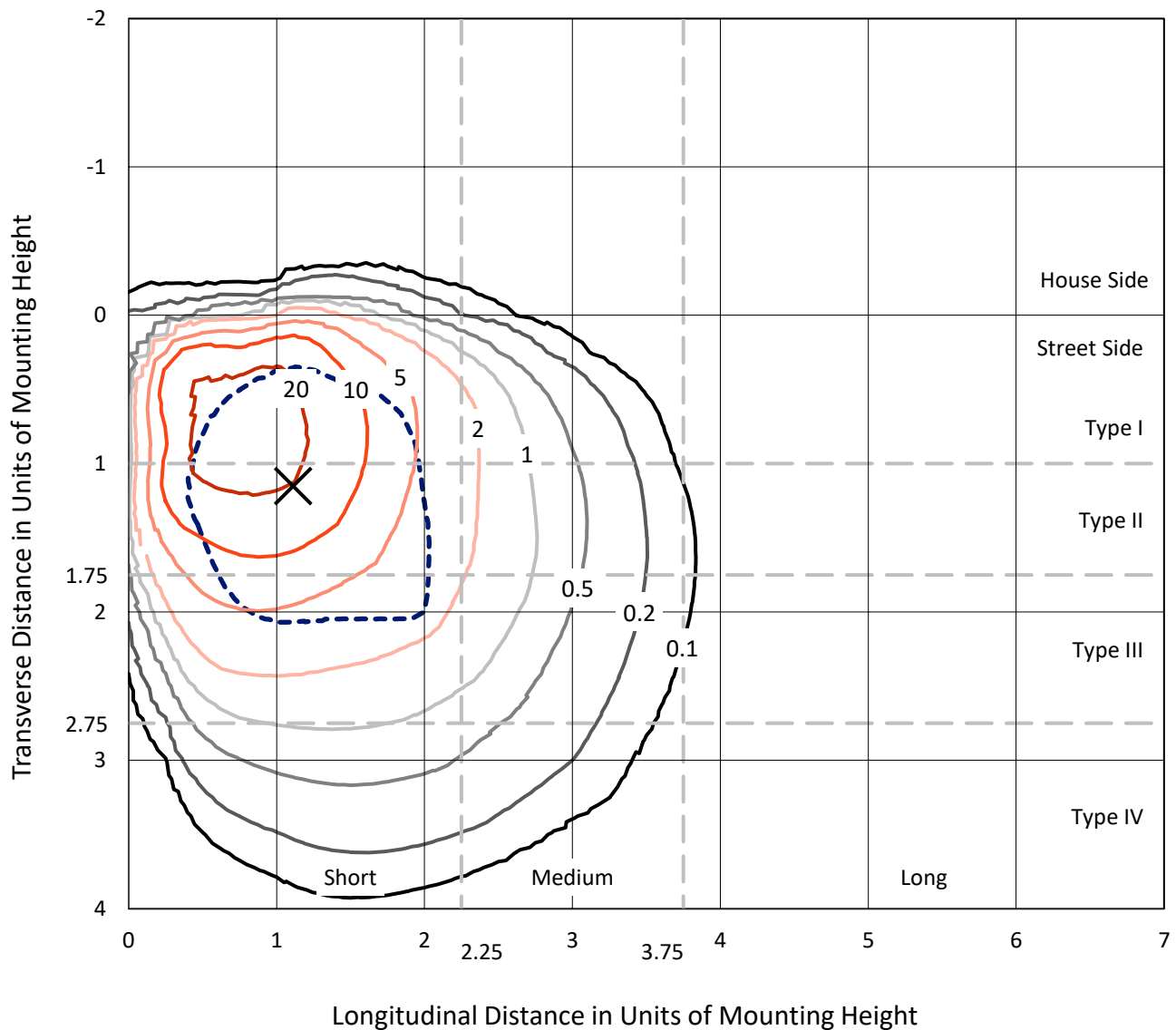
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

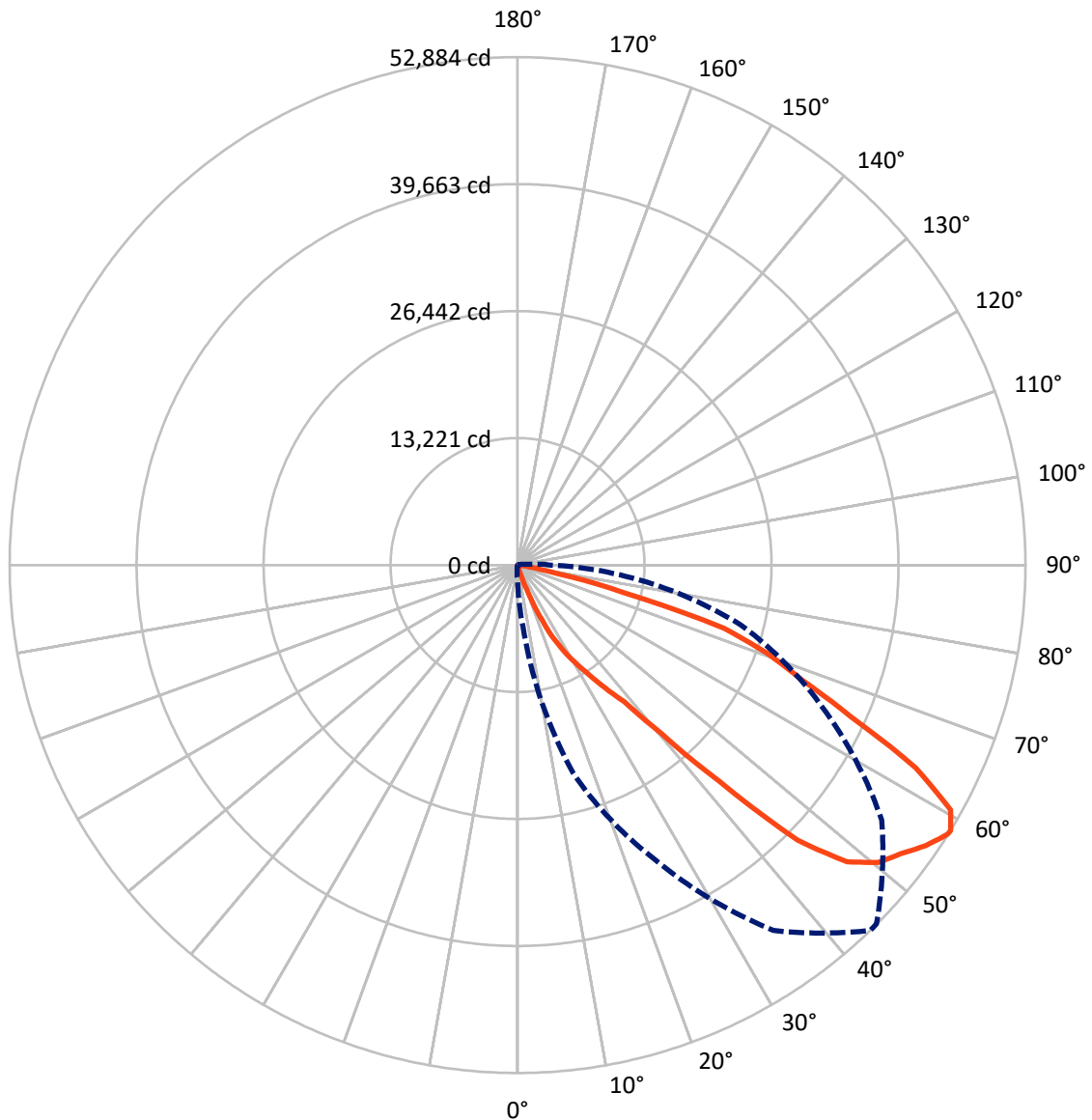
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 35.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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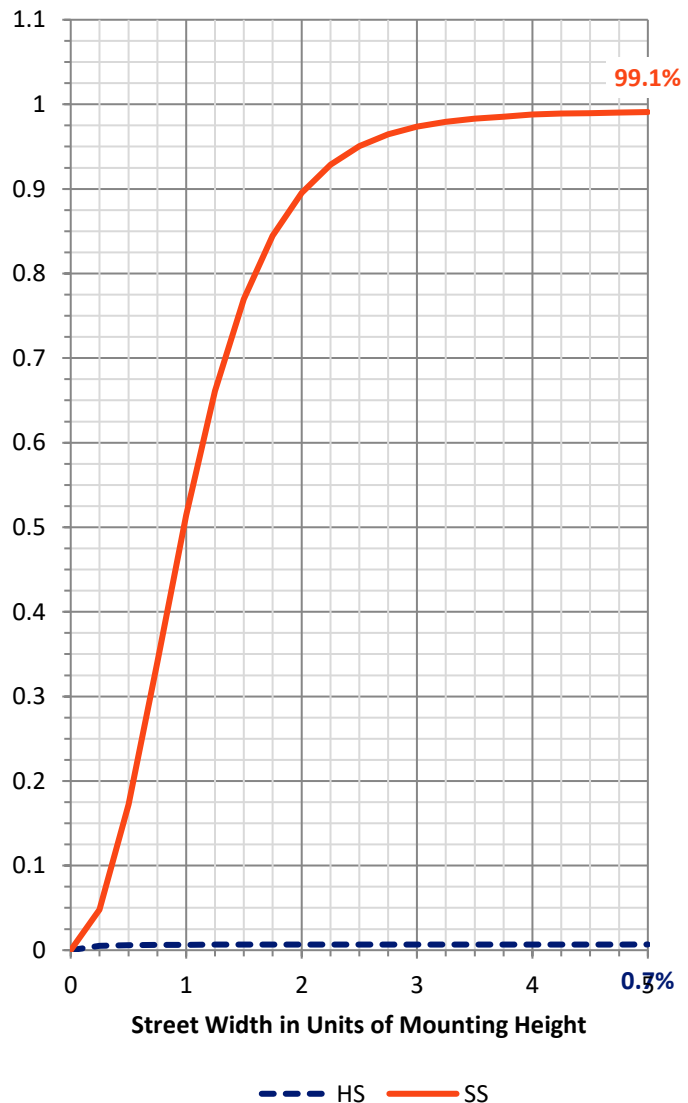
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	140.8	0.0	140.8
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	20473.8	0.0	20473.8
	% Fixture	99.3	0.0	99.3
Total	Lumens	20614.6	0.0	20614.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.1	0.0
10°-20°	45.2	0.2
20°-30°	488.4	2.4
30°-40°	1444.3	7.0
40°-50°	4304.7	20.9
50°-60°	6830.4	33.1
60°-70°	5697.4	27.6
70°-80°	1757.2	8.5
80°-90°	39.0	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°	20614.6	100.0
0°-180°	20614.6	100.0



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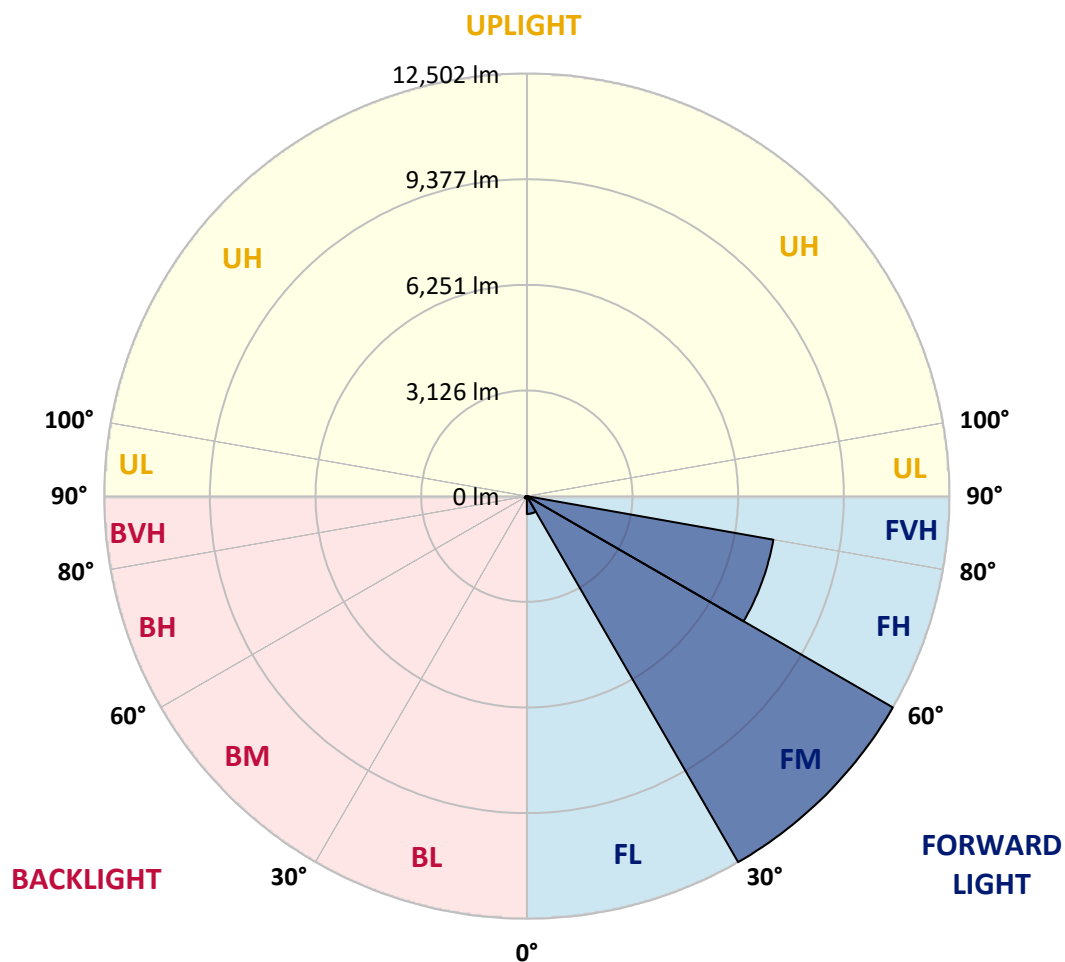
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	527.9	2.6			
FM	(30°-60°)	12502.3	60.6			
FH	(60°-80°)	7406.5	35.9			G3/7500
FVH	(80°-90°)	37.1	0.2			G1/100
BL	(0°-30°)	13.8	0.1	B0/110		
BM	(30°-60°)	77.0	0.4	B0/220		
BH	(60°-80°)	48.1	0.2	B0/110		G0/110
BVH	(80°-90°)	1.9	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°	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
2.5°	116.8	116.8	112.1	105.9	99.7	93.4	91.9	88.8	87.2	85.6
5°	121.5	121.5	119.9	115.2	109.0	104.3	104.3	99.7	96.5	93.4
7.5°	124.6	126.1	129.3	127.7	124.6	119.9	119.9	116.8	112.1	104.3
10°	129.3	133.9	140.2	143.3	144.8	144.8	143.3	141.7	133.9	123.0
12.5°	133.9	143.3	158.8	174.4	183.8	196.2	194.7	191.5	171.3	147.9
15°	143.3	157.3	190.0	235.1	305.2	348.8	366.0	350.4	283.4	199.3
17.5°	154.2	177.5	275.6	492.1	806.7	956.2	1046.5	973.3	644.7	378.4
20°	165.1	216.5	512.3	1275.4	2093.0	2581.9	2717.4	2505.6	1608.6	721.0
22.5°	183.8	303.7	1038.7	2636.4	4509.8	5243.3	5381.9	4704.5	3038.2	1423.3
25°	222.7	440.7	1790.8	4296.5	6730.5	7968.5	7910.9	7023.2	4928.7	2273.6
27.5°	278.7	641.6	2708.1	6104.4	8857.7	9949.3	10080.1	8982.3	6570.1	3343.4
30°	359.7	889.2	3692.3	7552.7	10562.9	11743.3	11765.1	10629.8	8038.6	4282.5
32.5°	437.6	1122.8	4553.4	8952.7	12243.2	13537.2	13633.8	12236.9	9134.9	5260.4
35°	496.8	1275.4	5425.5	10182.9	13937.4	15720.5	15714.3	14055.8	10433.6	6134.0
37.5°	501.4	1428.0	6215.0	11441.2	16083.3	18079.8	18277.5	16449.3	12003.3	7214.8
40°	490.5	1599.3	7214.8	13403.3	19950.0	23013.1	23187.6	20882.8	15152.1	9064.8
42.5°	503.0	1896.7	8837.4	17027.0	26370.6	30769.8	31106.2	28683.1	20940.4	12839.6
45°	568.4	2455.8	12236.9	23089.4	35522.6	40885.8	40773.7	37283.8	27675.6	18585.9
47.5°	784.9	3824.6	17276.2	28989.9	41371.6	46147.8	46244.3	41979.0	31606.1	23003.8
50°	1206.9	5852.2	21510.4	32109.1	43886.6	48678.3	48588.0	43659.3	33099.5	25179.3
52.5°	1569.7	7319.1	23634.5	33203.8	44209.0	49928.8	49922.5	44101.5	33331.5	25366.2
55°	1660.0	7429.7	23651.6	33263.0	44931.5	51565.4	51771.0	45190.0	33632.1	24550.2
57.5°	1624.2	6577.9	22664.3	33605.6	46217.8	52831.5	52842.4	46244.3	34395.1	24050.3
58°	1593.1	6443.9	22465.0	33800.3	46439.0	52884.4	52858.0	46292.6	35016.5	24031.6
60°	1418.7	5595.2	21687.9	34297.0	46110.4	51797.5	51549.9	45238.3	34924.6	23840.0
62.5°	1115.0	4365.0	20923.3	33722.4	42587.9	46535.5	46638.3	40051.1	31838.1	22723.5
65°	887.6	3253.1	19328.7	29580.1	35069.4	38215.1	38598.2	32568.5	26574.6	19241.5
67.5°	707.0	2351.5	16214.2	23550.4	27750.3	31894.2	32172.9	27343.9	20588.5	14742.6
70°	574.6	1590.0	11192.0	17223.3	22888.6	27547.9	27565.0	22715.7	15367.0	9659.7
72.5°	509.2	1101.0	6496.9	12560.8	18559.4	22447.9	21994.7	18433.2	11810.2	5721.4
75°	440.7	730.4	3186.1	7678.8	11252.7	11329.0	11501.9	8550.9	5903.6	2720.5
77.5°	362.8	518.6	1255.1	2097.6	3374.6	4319.8	4480.2	3394.8	1963.7	669.6
80°	249.2	246.0	337.9	643.1	965.5	1210.0	1129.0	873.6	513.9	256.9
82.5°	107.5	116.8	152.6	183.8	149.5	144.8	138.6	88.8	68.5	52.9
85°	34.3	31.1	32.7	32.7	26.5	20.2	20.2	9.3	0.0	0.0
87.5°	17.1	14.0	14.0	12.5	7.8	3.1	1.6	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°
90.3	0°	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
84.1	2.5°	82.5	82.5	79.4	76.3	74.7	71.6	70.1	68.5	67.0	65.4
90.3	5°	87.2	85.6	81.0	76.3	71.6	67.0	63.8	60.7	57.6	56.1
99.7	7.5°	95.0	91.9	82.5	74.7	68.5	62.3	59.2	54.5	51.4	46.7
110.6	10°	104.3	98.1	85.6	76.3	67.0	59.2	54.5	49.8	45.2	38.9
126.1	12.5°	116.8	105.9	90.3	74.7	63.8	54.5	49.8	43.6	38.9	34.3
146.4	15°	127.7	113.7	91.9	74.7	60.7	49.8	43.6	37.4	32.7	26.5
183.8	17.5°	143.3	119.9	90.3	70.1	56.1	43.6	37.4	32.7	24.9	15.6
272.5	20°	169.7	124.6	87.2	65.4	48.3	35.8	28.0	21.8	10.9	3.1
409.6	22.5°	211.8	137.0	84.1	59.2	42.0	28.0	18.7	7.8	0.0	0.0
622.9	25°	292.8	158.8	84.1	56.1	37.4	20.2	6.2	0.0	0.0	0.0
884.5	27.5°	389.3	188.4	84.1	48.3	29.6	10.9	0.0	0.0	0.0	0.0
1205.3	30°	487.4	221.1	84.1	42.0	23.4	1.6	0.0	0.0	0.0	0.0
1484.1	32.5°	580.9	249.2	85.6	35.8	15.6	0.0	0.0	0.0	0.0	0.0
1870.3	35°	675.8	253.8	84.1	31.1	9.3	0.0	0.0	0.0	0.0	0.0
2343.7	37.5°	797.3	244.5	79.4	28.0	4.7	0.0	0.0	0.0	0.0	0.0
3083.4	40°	981.1	249.2	74.7	26.5	1.6	0.0	0.0	0.0	0.0	0.0
4402.4	42.5°	1320.6	269.4	68.5	26.5	0.0	0.0	0.0	0.0	0.0	0.0
7012.3	45°	2282.9	361.3	62.3	28.0	0.0	0.0	0.0	0.0	0.0	0.0
10527.1	47.5°	3776.3	649.4	60.7	28.0	0.0	0.0	0.0	0.0	0.0	0.0
12680.7	50°	4819.7	817.6	63.8	29.6	0.0	0.0	0.0	0.0	0.0	0.0
12950.1	52.5°	4811.9	911.0	67.0	31.1	6.2	0.0	0.0	0.0	0.0	0.0
11936.4	55°	4277.8	928.1	71.6	34.3	20.2	0.0	0.0	0.0	0.0	0.0
10257.7	57.5°	3575.5	847.1	82.5	42.0	37.4	0.0	0.0	0.0	0.0	0.0
9994.5	58°	3450.9	809.8	85.6	43.6	40.5	0.0	0.0	0.0	0.0	0.0
8669.2	60°	2828.0	660.3	109.0	54.5	54.5	0.0	0.0	0.0	0.0	0.0
7107.3	62.5°	1952.8	576.2	124.6	70.1	56.1	0.0	0.0	0.0	0.0	0.0
5240.2	65°	1381.3	520.1	135.5	74.7	45.2	0.0	0.0	0.0	0.0	0.0
3723.4	67.5°	1032.5	479.6	149.5	76.3	23.4	0.0	0.0	0.0	0.0	0.0
2335.9	70°	791.1	450.0	183.8	81.0	6.2	0.0	0.0	0.0	0.0	0.0
1392.2	72.5°	644.7	415.8	222.7	84.1	0.0	0.0	0.0	0.0	0.0	0.0
834.7	75°	534.1	375.3	214.9	91.9	0.0	0.0	0.0	0.0	0.0	0.0
445.4	77.5°	355.1	291.2	196.2	91.9	0.0	0.0	0.0	0.0	0.0	0.0
158.8	80°	124.6	115.2	152.6	81.0	0.0	0.0	0.0	0.0	0.0	0.0
32.7	82.5°	18.7	15.6	21.8	28.0	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	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°
90.3	0°	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
63.8	2.5°	63.8	63.8	62.3	63.8	63.8	67.0	74.7	85.6	98.1	102.8
54.5	5°	52.9	51.4	49.8	49.8	49.8	54.5	60.7	73.2	87.2	93.4
45.2	7.5°	43.6	42.0	40.5	38.9	38.9	42.0	49.8	63.8	77.9	84.1
37.4	10°	35.8	32.7	31.1	29.6	29.6	32.7	40.5	54.5	70.1	76.3
31.1	12.5°	29.6	24.9	21.8	20.2	18.7	23.4	31.1	43.6	60.7	68.5
23.4	15°	20.2	15.6	10.9	9.3	7.8	12.5	20.2	34.3	51.4	60.7
12.5	17.5°	10.9	4.7	1.6	0.0	0.0	3.1	9.3	24.9	42.0	49.8
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	31.1	38.9
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	18.7	26.5
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	14.0
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
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	4.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	12.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
90.3	0°	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
107.5	2.5°	110.6	109.0	105.9	102.8	102.8	102.8	107.5	112.1	116.8	116.8
96.5	5°	102.8	102.8	101.2	98.1	98.1	99.7	105.9	113.7	119.9	121.5
88.8	7.5°	95.0	98.1	95.0	93.4	95.0	96.5	102.8	112.1	121.5	124.6
82.5	10°	90.3	91.9	91.9	90.3	90.3	93.4	99.7	112.1	124.6	129.3
74.7	12.5°	84.1	87.2	85.6	85.6	85.6	88.8	96.5	110.6	127.7	133.9
67.0	15°	77.9	82.5	82.5	81.0	81.0	82.5	93.4	109.0	132.4	143.3
57.6	17.5°	71.6	76.3	77.9	74.7	74.7	77.9	88.8	109.0	135.5	154.2
46.7	20°	59.2	67.0	71.6	67.0	67.0	70.1	81.0	102.8	137.0	165.1
34.3	22.5°	46.7	54.5	60.7	59.2	59.2	60.7	74.7	98.1	138.6	183.8
20.2	25°	34.3	42.0	46.7	49.8	49.8	54.5	68.5	95.0	144.8	222.7
9.3	27.5°	20.2	29.6	35.8	38.9	40.5	46.7	63.8	91.9	155.7	278.7
0.0	30°	9.3	17.1	24.9	31.1	31.1	42.0	59.2	88.8	169.7	359.7
0.0	32.5°	0.0	7.8	12.5	21.8	23.4	34.3	54.5	85.6	190.0	437.6
0.0	35°	0.0	0.0	6.2	17.1	17.1	28.0	49.8	82.5	221.1	496.8
0.0	37.5°	0.0	0.0	0.0	12.5	14.0	24.9	48.3	81.0	227.4	501.4
0.0	40°	0.0	0.0	0.0	9.3	10.9	23.4	48.3	82.5	205.6	490.5
0.0	42.5°	0.0	0.0	0.0	6.2	7.8	23.4	48.3	85.6	185.3	503.0
0.0	45°	0.0	0.0	0.0	4.7	6.2	24.9	46.7	84.1	174.4	568.4
0.0	47.5°	0.0	0.0	0.0	6.2	9.3	24.9	45.2	82.5	176.0	784.9
0.0	50°	0.0	0.0	0.0	7.8	10.9	24.9	46.7	79.4	193.1	1206.9
0.0	52.5°	0.0	0.0	0.0	6.2	9.3	28.0	51.4	77.9	210.2	1569.7
0.0	55°	0.0	0.0	0.0	1.6	4.7	35.8	56.1	77.9	236.7	1660.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	40.5	63.8	82.5	280.3	1624.2
0.0	58°	0.0	0.0	0.0	0.0	0.0	40.5	65.4	82.5	283.4	1593.1
0.0	60°	0.0	0.0	0.0	0.0	0.0	40.5	71.6	91.9	305.2	1418.7
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	34.3	85.6	115.2	317.7	1115.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	28.0	101.2	126.1	327.0	887.6
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	26.5	104.3	127.7	331.7	707.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	28.0	102.8	137.0	347.3	574.6
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	31.1	93.4	151.1	347.3	509.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	32.7	87.2	169.7	316.1	440.7
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	31.1	85.6	197.8	281.9	362.8
0.0	80°	3.1	4.7	4.7	3.1	3.1	26.5	84.1	200.9	239.8	249.2
1.6	82.5°	9.3	12.5	10.9	7.8	7.8	23.4	74.7	168.2	124.6	107.5
9.3	85°	17.1	20.2	20.2	17.1	17.1	21.8	46.7	60.7	42.0	34.3
17.1	87.5°	23.4	26.5	26.5	23.4	23.4	21.8	20.2	18.7	17.1	17.1
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: SP1-2407-184-17

Test Date: 10/11/2024

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

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

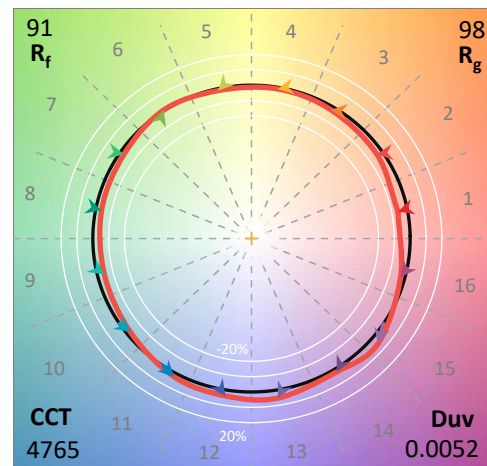
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-17
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/15/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGraw-Edison
 Catalog Number: **GSS-SB1A-950-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 5000K CCT 26 LEDS

Spectral Parameters

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

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



Test Conditions

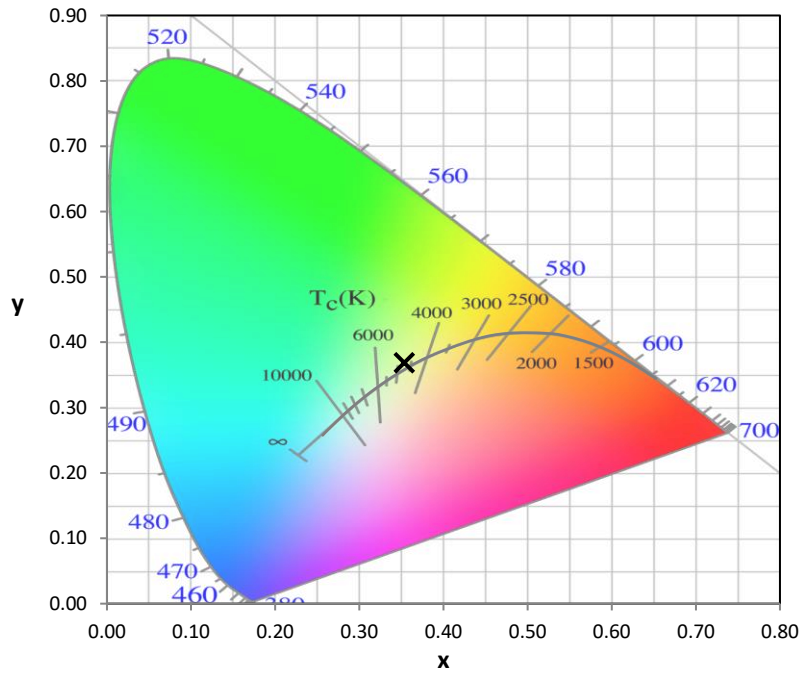
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-17

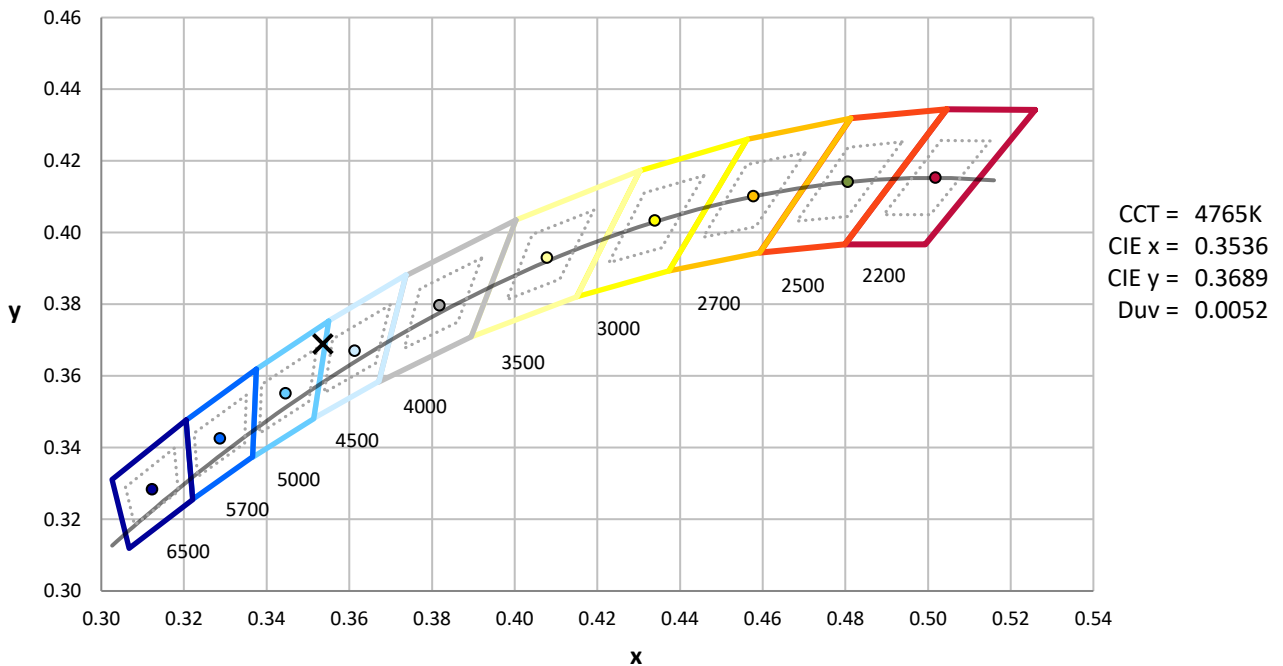
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-17

CIE 1931 Chromaticity Diagram



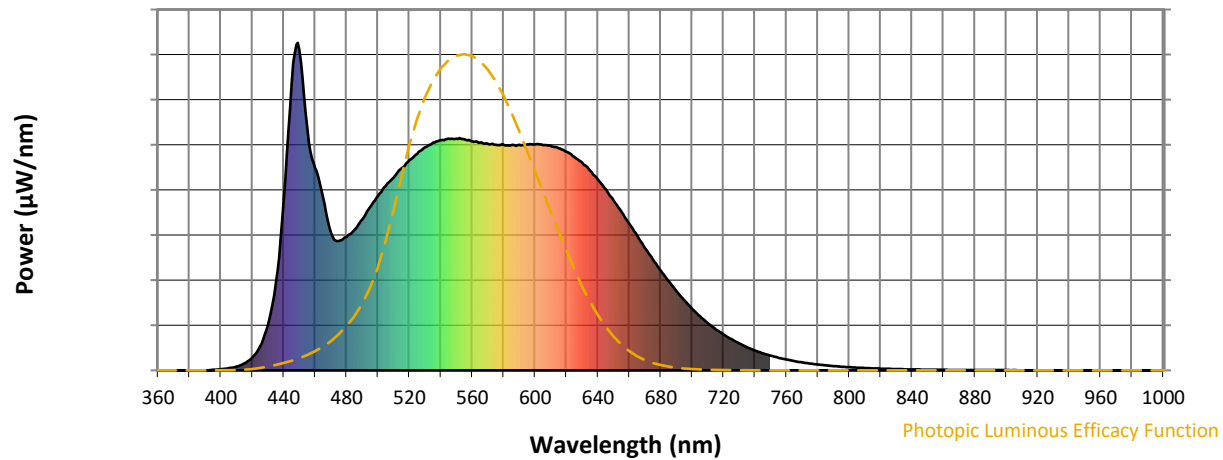
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-17

Photopic Flux vs. Wavelength

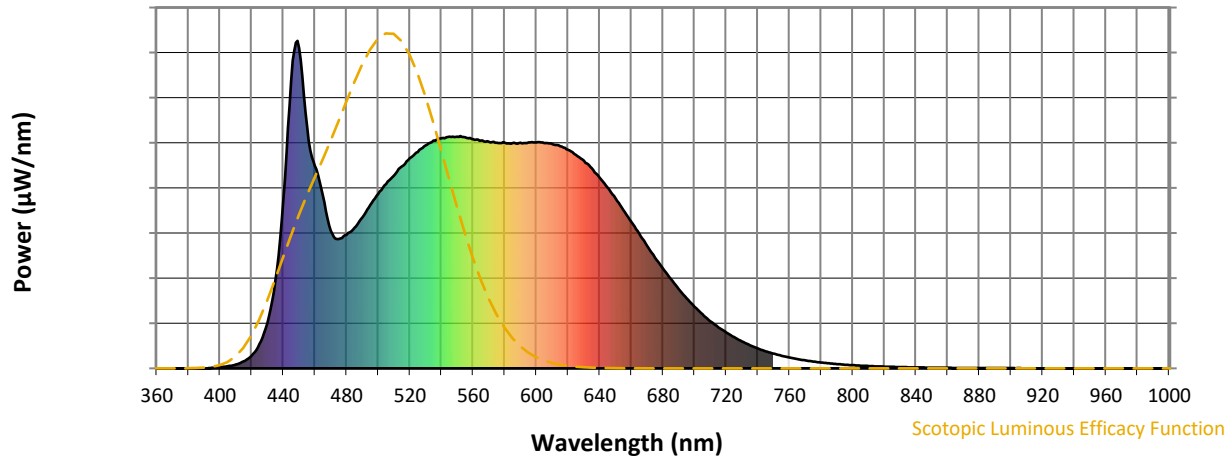


Photopic Lumens: NR

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

REPORT NUMBER: SP1-2407-184-17

Scotopic Flux vs. Wavelength



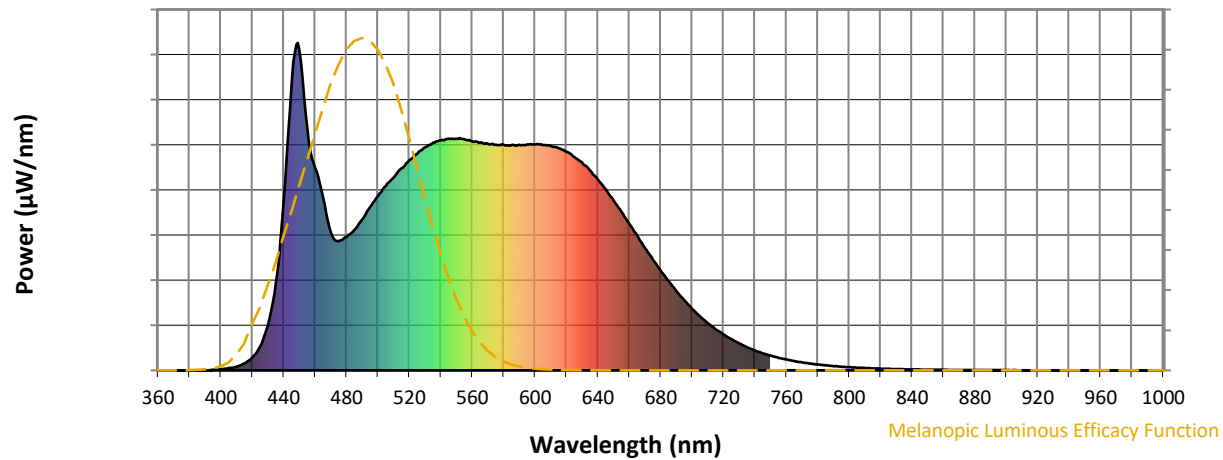
Scotopic Lumens: NR

S/P: 1.99

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

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 4.22

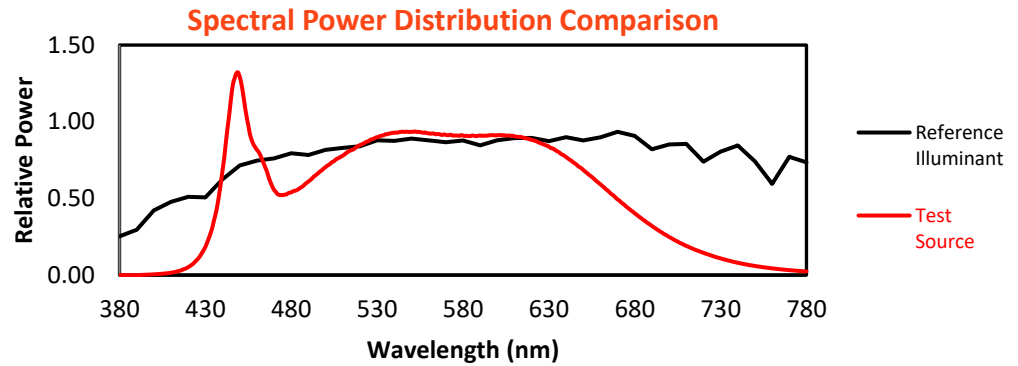
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	462	NR	620	668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

REPORT NUMBER: SP1-2407-184-17

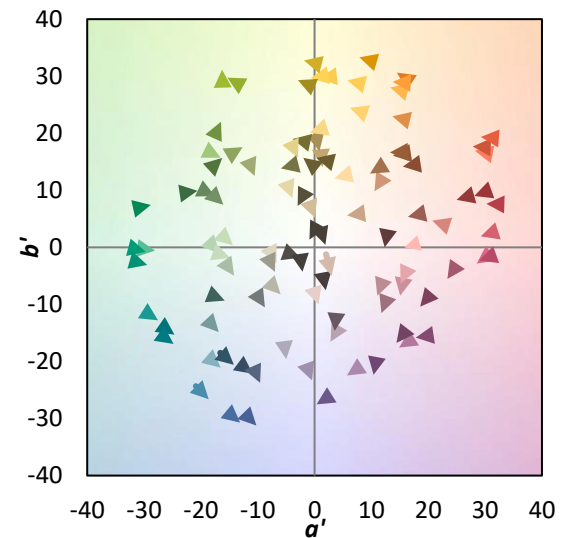
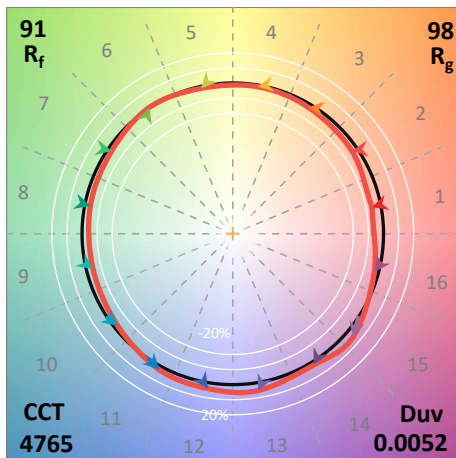
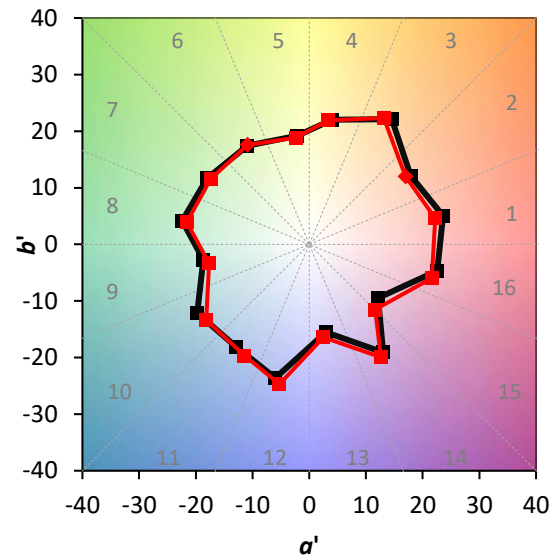
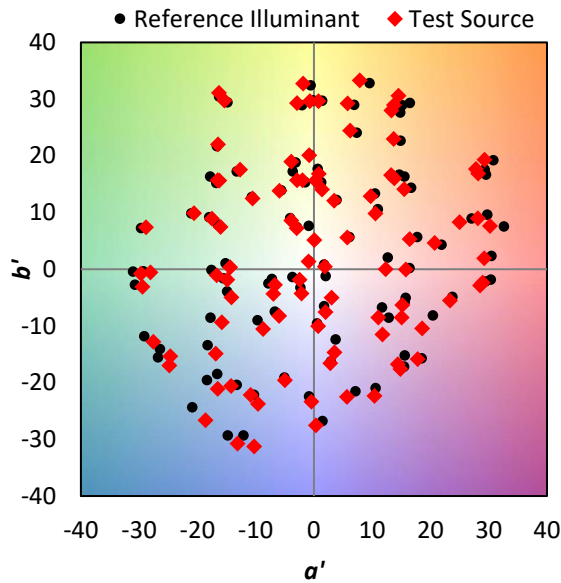
TM-30-18

Summary

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

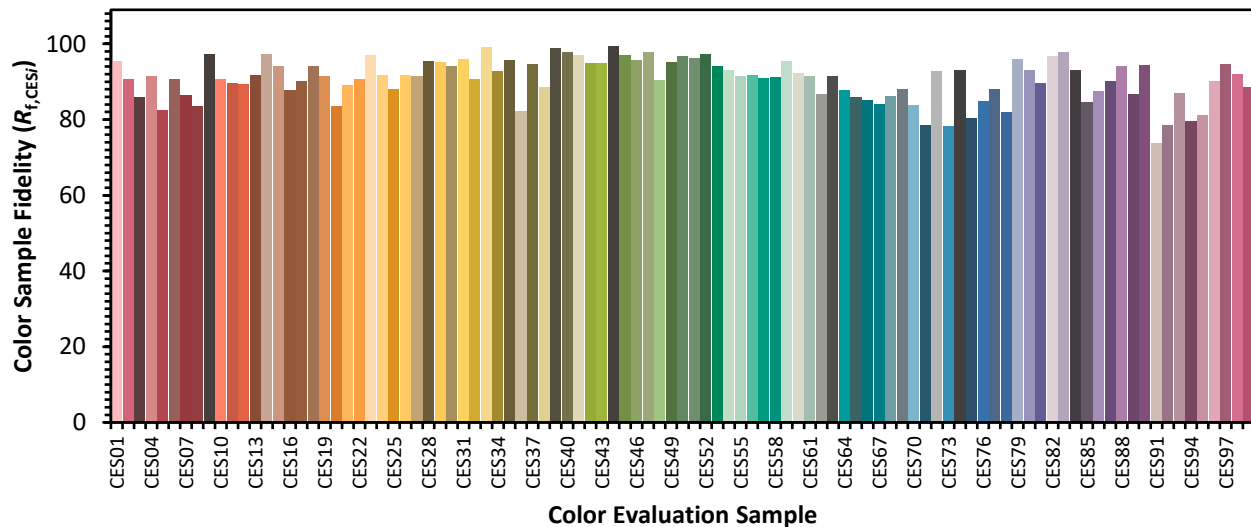


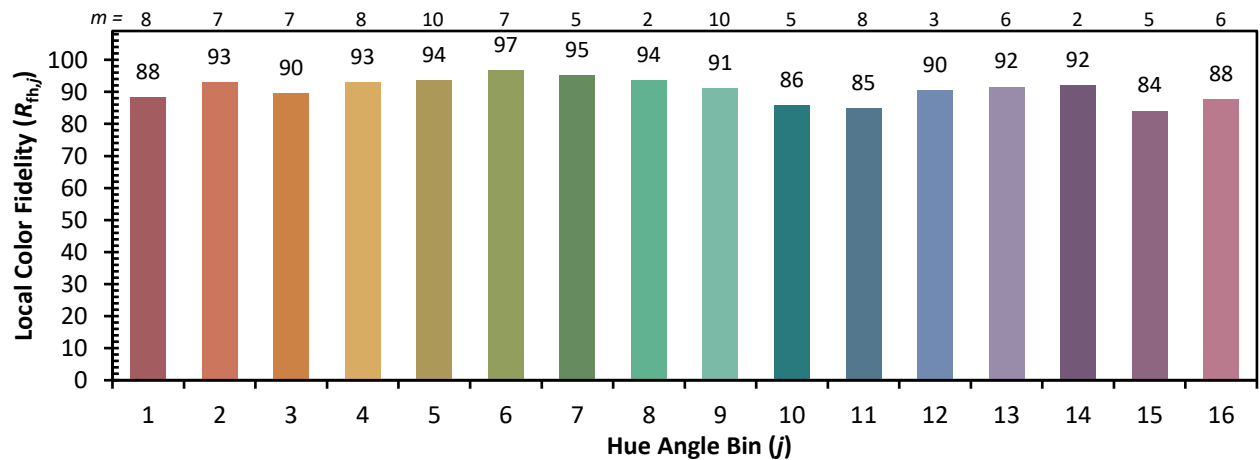
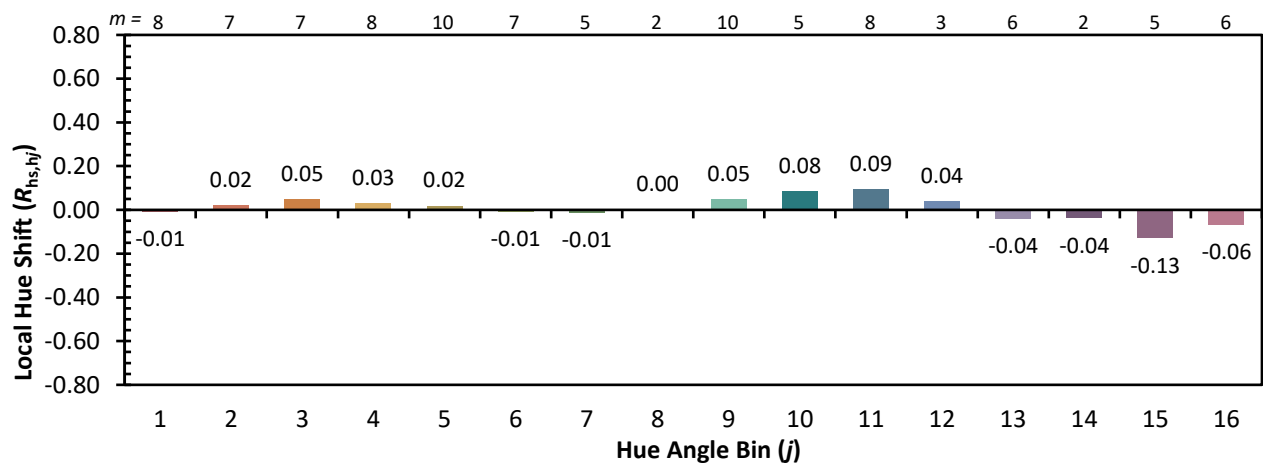
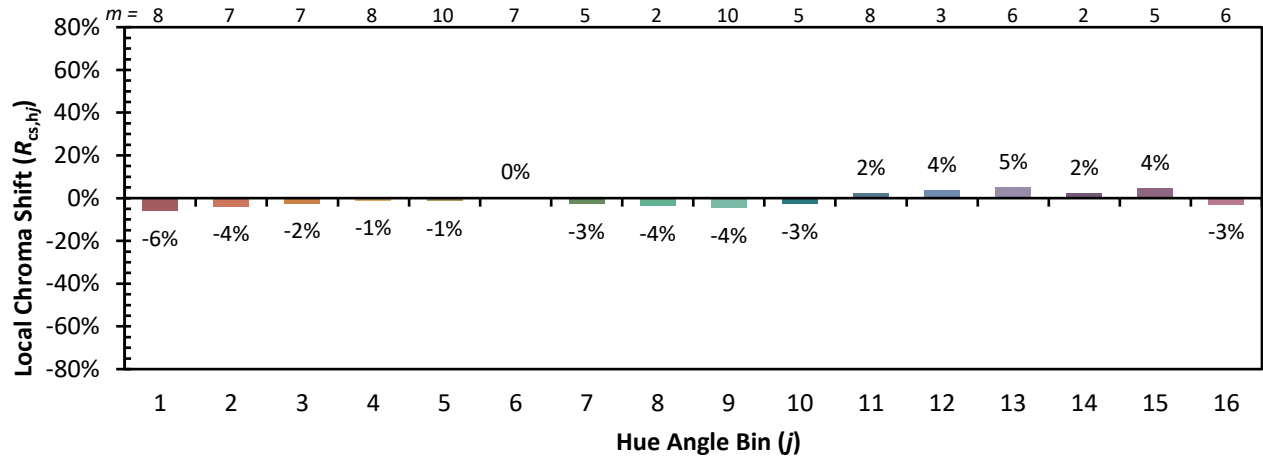
Color Vector Graphics



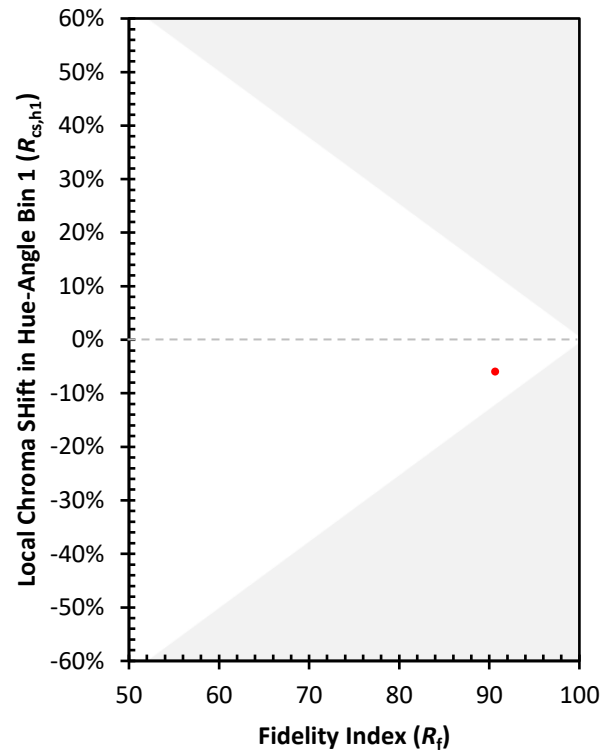
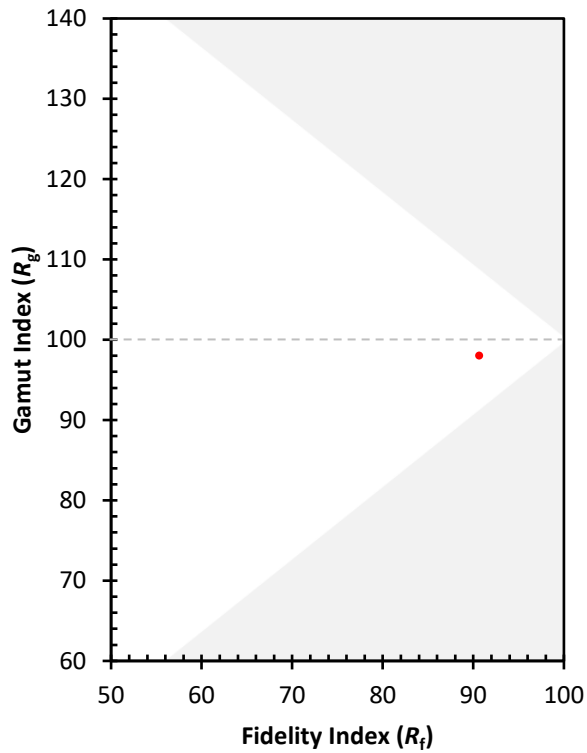
Individual Sample Fidelity Index ($R_{f,i}$)

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



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)