

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: P1049942

Luminaire Tested: **GALN-SA4B-930-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049942
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-930-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 4xLight Square PACKAGE
90CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11357.5 lumens
Efficiency: N/A
Efficacy: 78.8 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): 144.1
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

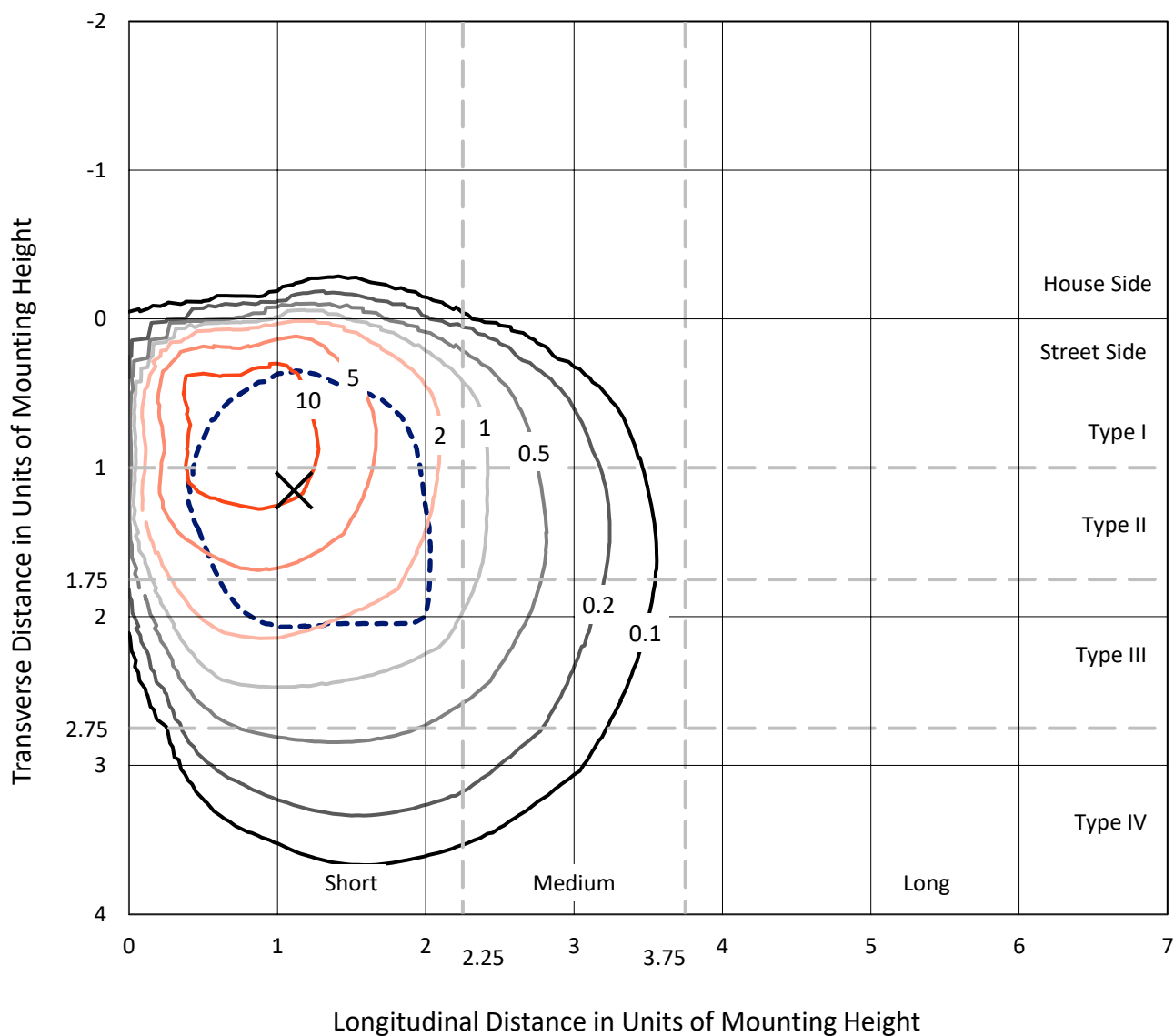
REPORT NUMBER: P1049942

CATALOG NUMBER: GALN-SA4B-930-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

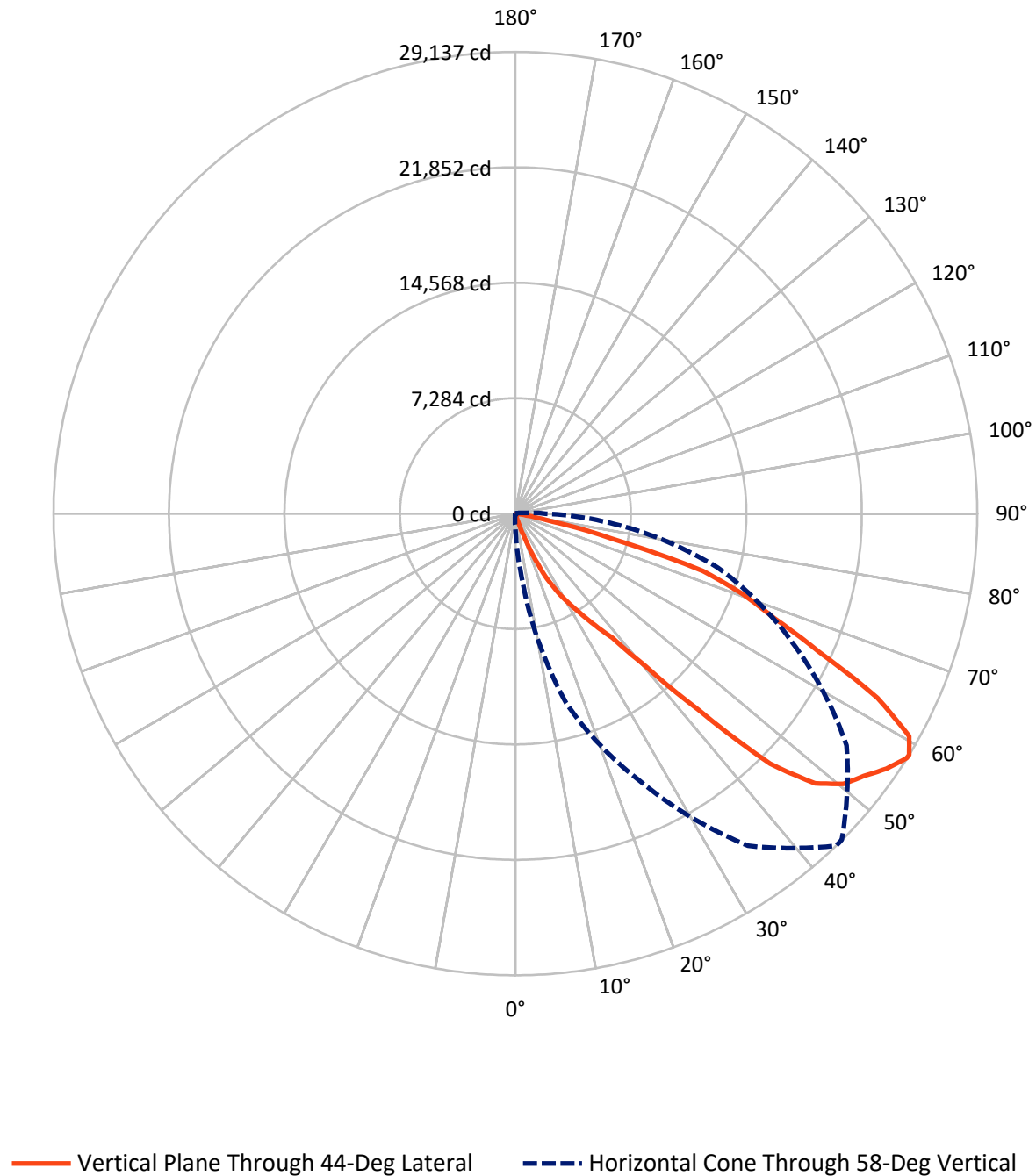


Based on 20 foot mounting height. Maximum calculated value = 19.8 fc

Type III - Short - N/A

REPORT NUMBER: P1049942
CATALOG NUMBER: GALN-SA4B-930-U-LBC

Luminous Intensity Polar Plot



REPORT NUMBER: P1049942

CATALOG NUMBER: GALN-SA4B-930-U-LBC

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	77.5	0.0	77.5
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	11280.0	0.0	11280.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	11357.5	0.0	11357.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.4	0.0
10°-20°	24.9	0.2
20°-30°	269.1	2.4
30°-40°	795.7	7.0
40°-50°	2371.6	20.9
50°-60°	3763.2	33.1
60°-70°	3139.0	27.6
70°-80°	968.1	8.5
80°-90°	21.5	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°	11357.5	100.0
0°-180°	11357.5	100.0



REPORT NUMBER: P1049942

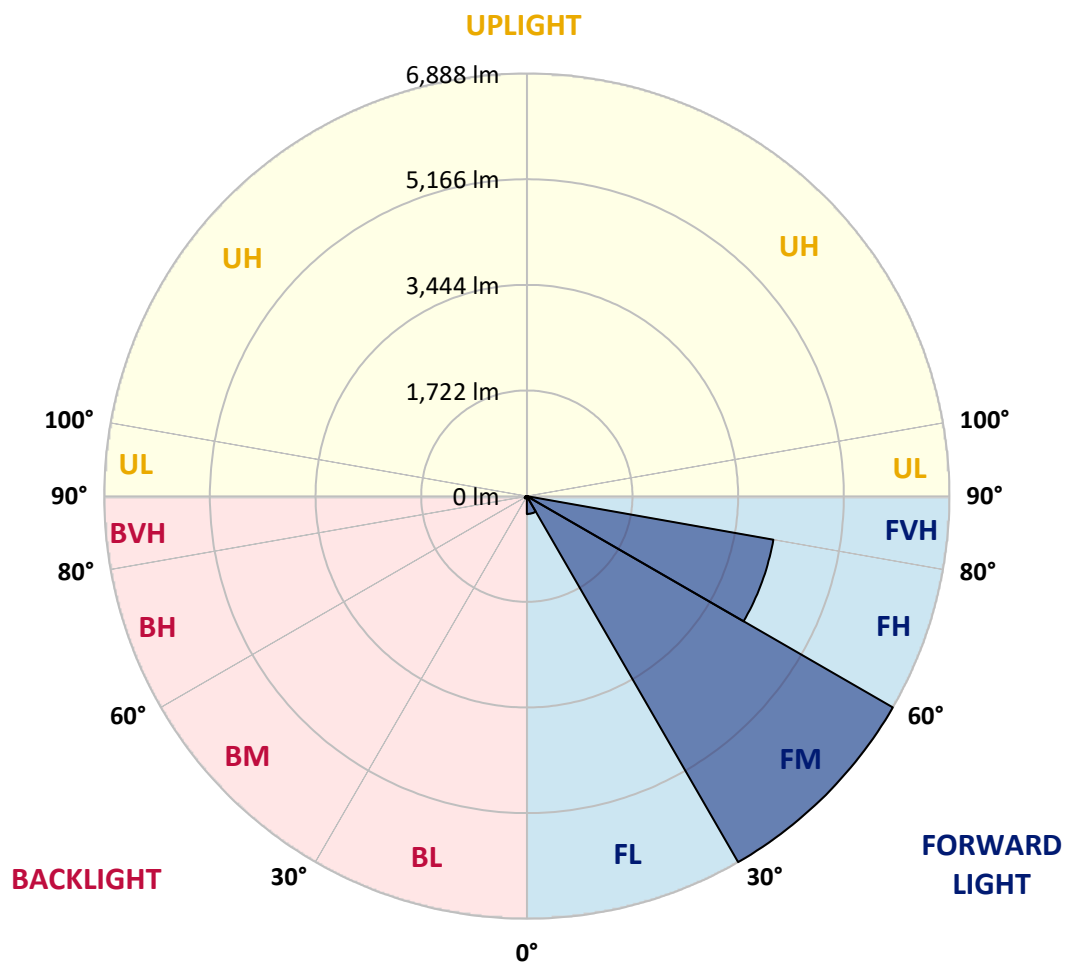
CATALOG NUMBER: GALN-SA4B-930-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	290.8	2.6			
FM	(30°-60°)	6888.1	60.6			
FH	(60°-80°)	4080.6	35.9			G2/5000
FVH	(80°-90°)	20.5	0.2			G1/100
BL	(0°-30°)	7.6	0.1	B0/110		
BM	(30°-60°)	42.4	0.4	B0/220		
BH	(60°-80°)	26.5	0.2	B0/110		G0/110
BVH	(80°-90°)	1.0	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



REPORT NUMBER: P1049942

CATALOG NUMBER: GALN-SA4B-930-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
2.5°	64.3	64.3	61.8	58.3	54.9	51.5	50.6	48.9	48.0	47.2
5°	66.9	66.9	66.1	63.5	60.1	57.5	57.5	54.9	53.2	51.5
7.5°	68.6	69.5	71.2	70.4	68.6	66.1	66.1	64.3	61.8	57.5
10°	71.2	73.8	77.2	78.9	79.8	79.8	78.9	78.1	73.8	67.8
12.5°	73.8	78.9	87.5	96.1	101.2	108.1	107.2	105.5	94.4	81.5
15°	78.9	86.7	104.7	129.6	168.2	192.2	201.6	193.0	156.1	109.8
17.5°	84.9	97.8	151.9	271.1	444.4	526.8	576.6	536.2	355.2	208.5
20°	90.9	119.3	282.3	702.7	1153.1	1422.5	1497.1	1380.5	886.3	397.2
22.5°	101.2	167.3	572.3	1452.5	2484.7	2888.8	2965.1	2591.9	1673.9	784.2
25°	122.7	242.8	986.7	2367.1	3708.1	4390.2	4358.5	3869.4	2715.5	1252.6
27.5°	153.6	353.5	1492.0	3363.2	4880.1	5481.5	5553.6	4948.7	3619.8	1842.1
30°	198.2	489.9	2034.2	4161.1	5819.6	6469.9	6481.9	5856.5	4428.8	2359.4
32.5°	241.1	618.6	2508.7	4932.4	6745.3	7458.3	7511.5	6741.9	5032.8	2898.2
35°	273.7	702.7	2989.2	5610.2	7678.8	8661.2	8657.7	7744.0	5748.4	3379.5
37.5°	276.3	786.8	3424.1	6303.5	8861.1	9961.0	10069.9	9062.7	6613.2	3975.0
40°	270.3	881.1	3975.0	7384.5	10991.4	12679.0	12775.1	11505.3	8348.0	4994.2
42.5°	277.1	1045.0	4869.0	9381.0	14528.8	16952.5	17137.9	15802.9	11537.1	7073.9
45°	313.2	1353.0	6741.9	12721.1	19571.0	22525.9	22464.1	20541.4	15247.8	10239.8
47.5°	432.4	2107.2	9518.3	15971.9	22793.6	25424.9	25478.1	23128.2	17413.3	12673.9
50°	664.9	3224.2	11851.1	17690.4	24179.2	26819.1	26769.4	24053.9	18236.1	13872.4
52.5°	864.8	4032.4	13021.3	18293.5	24356.8	27508.1	27504.7	24297.6	18363.9	13975.4
55°	914.6	4093.4	13030.8	18326.1	24754.9	28409.8	28523.1	24897.3	18529.5	13525.8
57.5°	894.9	3624.0	12486.8	18514.9	25463.6	29107.3	29113.3	25478.1	18949.9	13250.4
58°	877.7	3550.3	12377.0	18622.1	25585.4	29136.5	29121.9	25504.7	19292.2	13240.1
60°	781.6	3082.7	11948.9	18895.8	25404.4	28537.6	28401.2	24923.9	19241.6	13134.6
62.5°	614.3	2404.9	11527.6	18579.2	23463.6	25638.6	25695.2	22066.0	17541.1	12519.4
65°	489.0	1792.3	10649.1	16297.1	19321.4	21054.5	21265.5	17943.5	14641.2	10601.0
67.5°	389.5	1295.5	8933.1	12975.0	15288.9	17572.0	17725.6	15065.0	11343.2	8122.4
70°	316.6	876.0	6166.2	9489.1	12610.4	15177.4	15186.8	12515.1	8466.4	5322.0
72.5°	280.6	606.6	3579.4	6920.3	10225.2	12367.6	12117.9	10155.7	6506.8	3152.2
75°	242.8	402.4	1755.4	4230.6	6199.7	6241.7	6336.9	4711.1	3252.5	1498.9
77.5°	199.9	285.7	691.5	1155.7	1859.2	2380.0	2468.4	1870.4	1081.9	368.9
80°	137.3	135.6	186.2	354.3	531.9	666.6	622.0	481.3	283.1	141.6
82.5°	59.2	64.3	84.1	101.2	82.4	79.8	76.4	48.9	37.8	29.2
85°	18.9	17.2	18.0	18.0	14.6	11.2	11.2	5.1	0.0	0.0
87.5°	9.4	7.7	7.7	6.9	4.3	1.7	0.9	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1049942

CATALOG NUMBER: GALN-SA4B-930-U-LBC

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
49.8	0°	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
46.3	2.5°	45.5	45.5	43.8	42.0	41.2	39.5	38.6	37.8	36.9	36.0
49.8	5°	48.0	47.2	44.6	42.0	39.5	36.9	35.2	33.5	31.7	30.9
54.9	7.5°	52.3	50.6	45.5	41.2	37.8	34.3	32.6	30.0	28.3	25.7
60.9	10°	57.5	54.1	47.2	42.0	36.9	32.6	30.0	27.5	24.9	21.4
69.5	12.5°	64.3	58.3	49.8	41.2	35.2	30.0	27.5	24.0	21.4	18.9
80.6	15°	70.4	62.6	50.6	41.2	33.5	27.5	24.0	20.6	18.0	14.6
101.2	17.5°	78.9	66.1	49.8	38.6	30.9	24.0	20.6	18.0	13.7	8.6
150.1	20°	93.5	68.6	48.0	36.0	26.6	19.7	15.4	12.0	6.0	1.7
225.6	22.5°	116.7	75.5	46.3	32.6	23.2	15.4	10.3	4.3	0.0	0.0
343.2	25°	161.3	87.5	46.3	30.9	20.6	11.2	3.4	0.0	0.0	0.0
487.3	27.5°	214.5	103.8	46.3	26.6	16.3	6.0	0.0	0.0	0.0	0.0
664.1	30°	268.5	121.8	46.3	23.2	12.9	0.9	0.0	0.0	0.0	0.0
817.6	32.5°	320.0	137.3	47.2	19.7	8.6	0.0	0.0	0.0	0.0	0.0
1030.4	35°	372.4	139.8	46.3	17.2	5.1	0.0	0.0	0.0	0.0	0.0
1291.2	37.5°	439.3	134.7	43.8	15.4	2.6	0.0	0.0	0.0	0.0	0.0
1698.8	40°	540.5	137.3	41.2	14.6	0.9	0.0	0.0	0.0	0.0	0.0
2425.5	42.5°	727.6	148.4	37.8	14.6	0.0	0.0	0.0	0.0	0.0	0.0
3863.4	45°	1257.8	199.0	34.3	15.4	0.0	0.0	0.0	0.0	0.0	0.0
5799.8	47.5°	2080.6	357.8	33.5	15.4	0.0	0.0	0.0	0.0	0.0	0.0
6986.4	50°	2655.4	450.4	35.2	16.3	0.0	0.0	0.0	0.0	0.0	0.0
7134.8	52.5°	2651.1	501.9	36.9	17.2	3.4	0.0	0.0	0.0	0.0	0.0
6576.3	55°	2356.8	511.3	39.5	18.9	11.2	0.0	0.0	0.0	0.0	0.0
5651.4	57.5°	1969.9	466.7	45.5	23.2	20.6	0.0	0.0	0.0	0.0	0.0
5506.4	58°	1901.3	446.1	47.2	24.0	22.3	0.0	0.0	0.0	0.0	0.0
4776.3	60°	1558.1	363.8	60.1	30.0	30.0	0.0	0.0	0.0	0.0	0.0
3915.8	62.5°	1075.9	317.4	68.6	38.6	30.9	0.0	0.0	0.0	0.0	0.0
2887.1	65°	761.0	286.6	74.6	41.2	24.9	0.0	0.0	0.0	0.0	0.0
2051.4	67.5°	568.8	264.3	82.4	42.0	12.9	0.0	0.0	0.0	0.0	0.0
1286.9	70°	435.8	248.0	101.2	44.6	3.4	0.0	0.0	0.0	0.0	0.0
767.0	72.5°	355.2	229.1	122.7	46.3	0.0	0.0	0.0	0.0	0.0	0.0
459.9	75°	294.3	206.8	118.4	50.6	0.0	0.0	0.0	0.0	0.0	0.0
245.4	77.5°	195.6	160.4	108.1	50.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5	80°	68.6	63.5	84.1	44.6	0.0	0.0	0.0	0.0	0.0	0.0
18.0	82.5°	10.3	8.6	12.0	15.4	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

REPORT NUMBER: P1049942

CATALOG NUMBER: GALN-SA4B-930-U-LBC

CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
49.8	0°	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
35.2	2.5°	35.2	35.2	34.3	35.2	35.2	36.9	41.2	47.2	54.1	56.6
30.0	5°	29.2	28.3	27.5	27.5	27.5	30.0	33.5	40.3	48.0	51.5
24.9	7.5°	24.0	23.2	22.3	21.4	21.4	23.2	27.5	35.2	42.9	46.3
20.6	10°	19.7	18.0	17.2	16.3	16.3	18.0	22.3	30.0	38.6	42.0
17.2	12.5°	16.3	13.7	12.0	11.2	10.3	12.9	17.2	24.0	33.5	37.8
12.9	15°	11.2	8.6	6.0	5.1	4.3	6.9	11.2	18.9	28.3	33.5
6.9	17.5°	6.0	2.6	0.9	0.0	0.0	1.7	5.1	13.7	23.2	27.5
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	17.2	21.4
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	10.3	14.6
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	7.7
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
0.0	30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	6.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1049942

CATALOG NUMBER: GALN-SA4B-930-U-LBC

CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
49.8	0°	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
59.2	2.5°	60.9	60.1	58.3	56.6	56.6	56.6	59.2	61.8	64.3	64.3
53.2	5°	56.6	56.6	55.8	54.1	54.1	54.9	58.3	62.6	66.1	66.9
48.9	7.5°	52.3	54.1	52.3	51.5	52.3	53.2	56.6	61.8	66.9	68.6
45.5	10°	49.8	50.6	50.6	49.8	49.8	51.5	54.9	61.8	68.6	71.2
41.2	12.5°	46.3	48.0	47.2	47.2	47.2	48.9	53.2	60.9	70.4	73.8
36.9	15°	42.9	45.5	45.5	44.6	44.6	45.5	51.5	60.1	72.9	78.9
31.7	17.5°	39.5	42.0	42.9	41.2	41.2	42.9	48.9	60.1	74.6	84.9
25.7	20°	32.6	36.9	39.5	36.9	36.9	38.6	44.6	56.6	75.5	90.9
18.9	22.5°	25.7	30.0	33.5	32.6	32.6	33.5	41.2	54.1	76.4	101.2
11.2	25°	18.9	23.2	25.7	27.5	27.5	30.0	37.8	52.3	79.8	122.7
5.1	27.5°	11.2	16.3	19.7	21.4	22.3	25.7	35.2	50.6	85.8	153.6
0.0	30°	5.1	9.4	13.7	17.2	17.2	23.2	32.6	48.9	93.5	198.2
0.0	32.5°	0.0	4.3	6.9	12.0	12.9	18.9	30.0	47.2	104.7	241.1
0.0	35°	0.0	0.0	3.4	9.4	9.4	15.4	27.5	45.5	121.8	273.7
0.0	37.5°	0.0	0.0	0.0	6.9	7.7	13.7	26.6	44.6	125.3	276.3
0.0	40°	0.0	0.0	0.0	5.1	6.0	12.9	26.6	45.5	113.3	270.3
0.0	42.5°	0.0	0.0	0.0	3.4	4.3	12.9	26.6	47.2	102.1	277.1
0.0	45°	0.0	0.0	0.0	2.6	3.4	13.7	25.7	46.3	96.1	313.2
0.0	47.5°	0.0	0.0	0.0	3.4	5.1	13.7	24.9	45.5	97.0	432.4
0.0	50°	0.0	0.0	0.0	4.3	6.0	13.7	25.7	43.8	106.4	664.9
0.0	52.5°	0.0	0.0	0.0	3.4	5.1	15.4	28.3	42.9	115.8	864.8
0.0	55°	0.0	0.0	0.0	0.9	2.6	19.7	30.9	42.9	130.4	914.6
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	22.3	35.2	45.5	154.4	894.9
0.0	58°	0.0	0.0	0.0	0.0	0.0	22.3	36.0	45.5	156.1	877.7
0.0	60°	0.0	0.0	0.0	0.0	0.0	22.3	39.5	50.6	168.2	781.6
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	18.9	47.2	63.5	175.0	614.3
0.0	65°	0.0	0.0	0.0	0.0	0.0	15.4	55.8	69.5	180.2	489.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	14.6	57.5	70.4	182.7	389.5
0.0	70°	0.0	0.0	0.0	0.0	0.0	15.4	56.6	75.5	191.3	316.6
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	17.2	51.5	83.2	191.3	280.6
0.0	75°	0.0	0.0	0.0	0.0	0.0	18.0	48.0	93.5	174.2	242.8
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	17.2	47.2	109.0	155.3	199.9
0.0	80°	1.7	2.6	2.6	1.7	1.7	14.6	46.3	110.7	132.1	137.3
0.9	82.5°	5.1	6.9	6.0	4.3	4.3	12.9	41.2	92.7	68.6	59.2
5.1	85°	9.4	11.2	11.2	9.4	9.4	12.0	25.7	33.5	23.2	18.9
9.4	87.5°	12.9	14.6	14.6	12.9	12.9	12.0	11.2	10.3	9.4	9.4
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: SP1-2407-184-14

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-930-U-5WQ

Data in this report applies to families of products including GSS-SB1A-930-U-5WQ

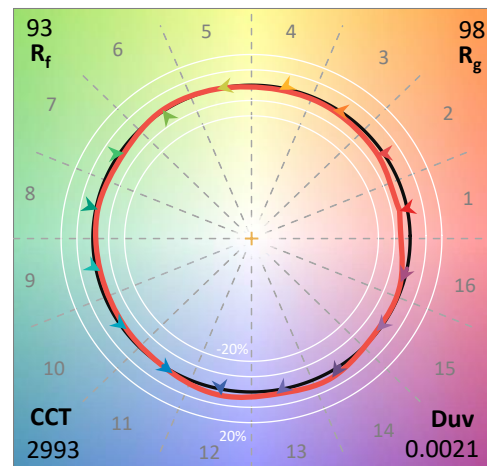
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-14
 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-930-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 2993
 CIE u' : 0.2501
 CIE v' : 0.5245
 Duv: 0.0021
 CIE x: 0.4406
 CIE y: 0.4107
 CIE z: 0.1487
 Peak Wavelength (nm): 621
 Dominant Wavelength (nm): 582
 Purity: 55.53327
 R_f: 92.6
 R_g: 98.5

CRI (Ra): 92.4
 R1: 92.2
 R2: 95.2
 R3: 97.0
 R4: 93.1
 R5: 91.7
 R6: 94.2
 R7: 93.3
 R8: 82.3
 R9: 58.2
 R10: 87.7
 R11: 93.5
 R12: 81.7
 R13: 92.9
 R14: 97.6
 R15: 88.1



Test Conditions

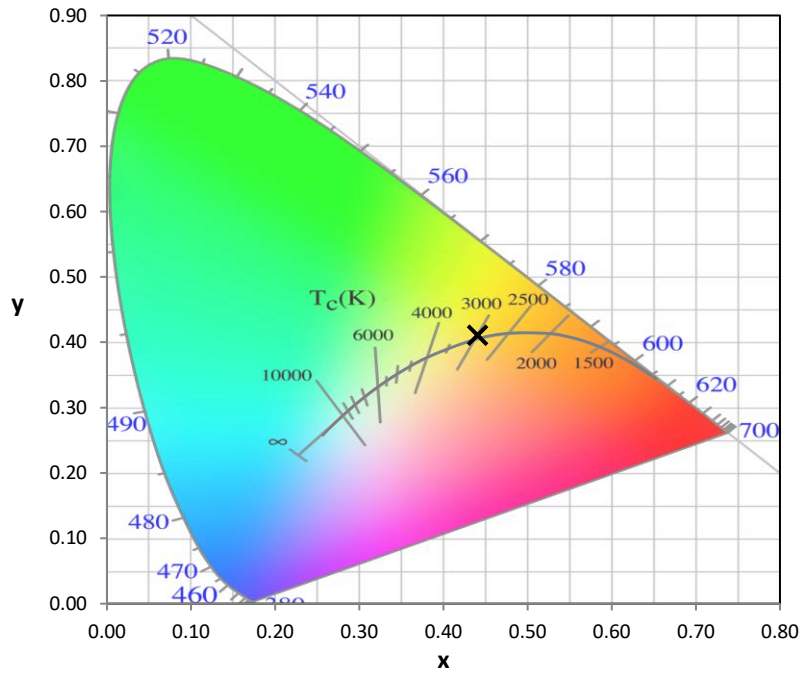
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-14

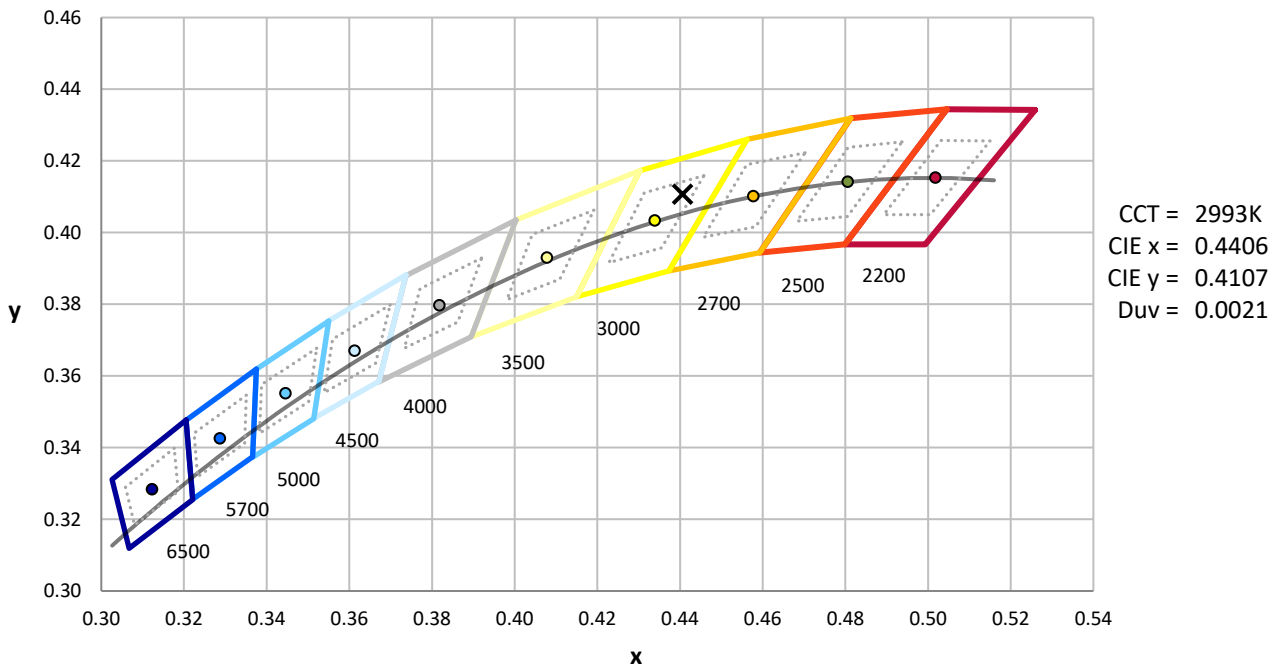
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-14

CIE 1931 Chromaticity Diagram



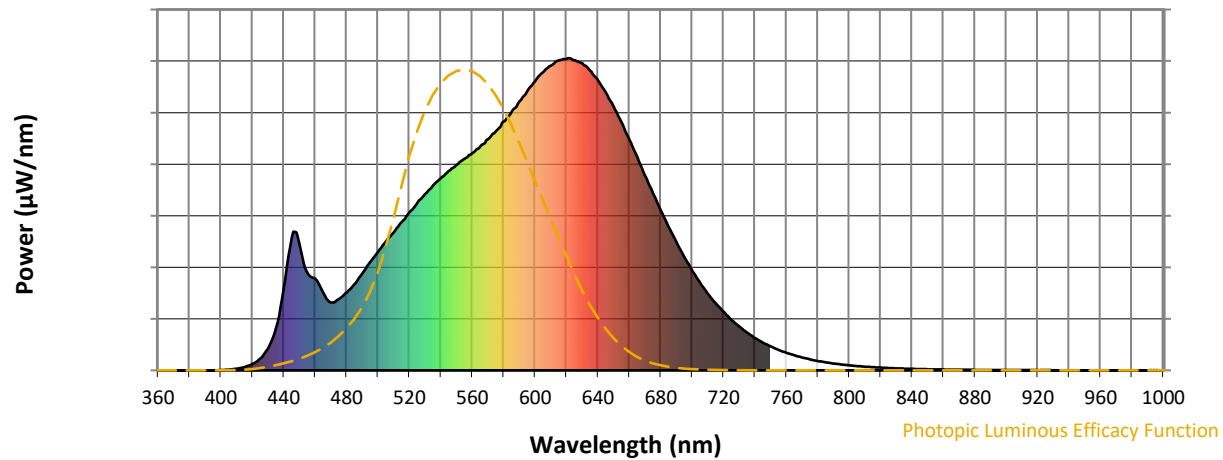
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-14

Photopic Flux vs. Wavelength

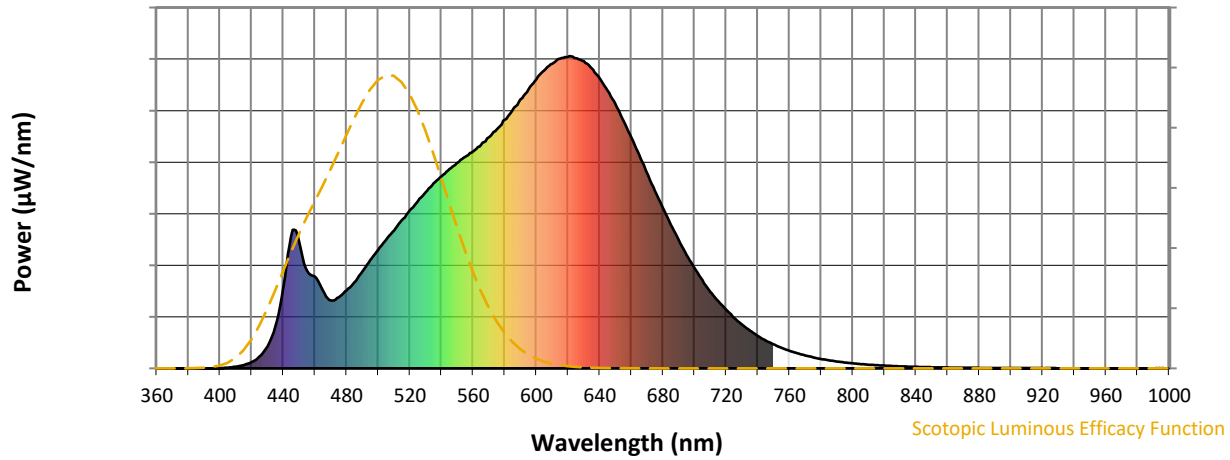


Photopic Lumens: NR

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	310	NR	620	998	NR	750	77	NR	880	2	NR
365	0	NR	495	347	NR	625	993	NR	755	66	NR	885	1	NR
370	0	NR	500	379	NR	630	983	NR	760	56	NR	890	1	NR
375	0	NR	505	412	NR	635	960	NR	765	48	NR	895	1	NR
380	0	NR	510	442	NR	640	930	NR	770	41	NR	900	1	NR
385	0	NR	515	475	NR	645	889	NR	775	35	NR	905	1	NR
390	0	NR	520	506	NR	650	846	NR	780	30	NR	910	1	NR
395	0	NR	525	535	NR	655	794	NR	785	26	NR	915	1	NR
400	1	NR	530	565	NR	660	740	NR	790	22	NR	920	1	NR
405	2	NR	535	592	NR	665	684	NR	795	19	NR	925	1	NR
410	6	NR	540	615	NR	670	624	NR	800	16	NR	930	0	NR
415	10	NR	545	638	NR	675	567	NR	805	14	NR	935	0	NR
420	20	NR	550	658	NR	680	513	NR	810	12	NR	940	0	NR
425	38	NR	555	678	NR	685	459	NR	815	10	NR	945	0	NR
430	70	NR	560	695	NR	690	412	NR	820	9	NR	950	0	NR
435	136	NR	565	716	NR	695	363	NR	825	8	NR	955	0	NR
440	262	NR	570	740	NR	700	320	NR	830	7	NR	960	0	NR
445	424	NR	575	765	NR	705	281	NR	835	6	NR	965	0	NR
450	406	NR	580	796	NR	710	245	NR	840	5	NR	970	0	NR
455	313	NR	585	827	NR	715	215	NR	845	4	NR	975	0	NR
460	294	NR	590	861	NR	720	188	NR	850	4	NR	980	0	NR
465	250	NR	595	894	NR	725	162	NR	855	3	NR	985	0	NR
470	217	NR	600	927	NR	730	140	NR	860	3	NR	990	0	NR
475	228	NR	605	954	NR	735	121	NR	865	2	NR	995	0	NR
480	249	NR	610	976	NR	740	104	NR	870	2	NR	1000	0	NR
485	276	NR	615	992	NR	745	89	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-14

Scotopic Flux vs. Wavelength



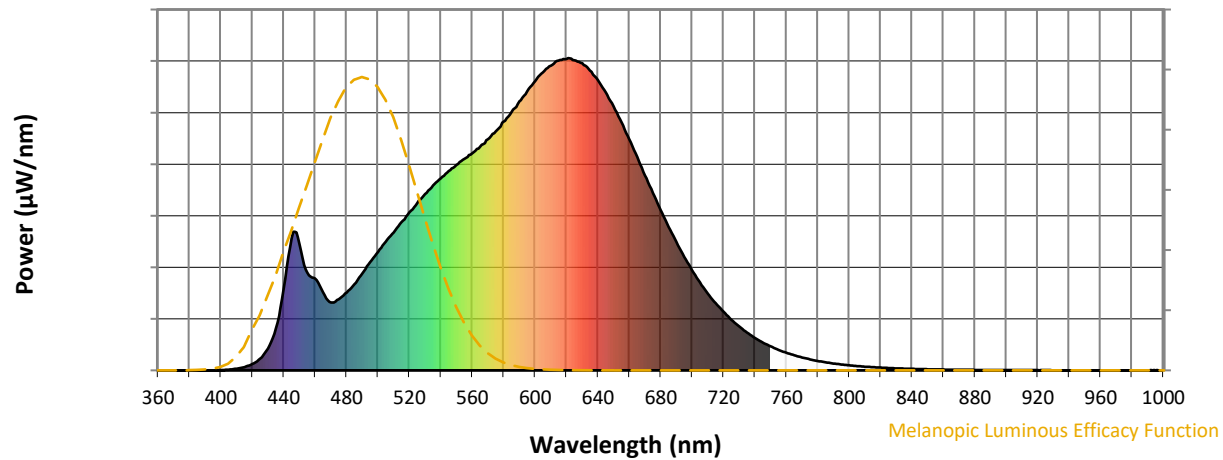
Scotopic Lumens: NR

S/P: 1.39

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	310	NR	620	998	NR	750	77	NR	880	2	NR
365	0	NR	495	347	NR	625	993	NR	755	66	NR	885	1	NR
370	0	NR	500	379	NR	630	983	NR	760	56	NR	890	1	NR
375	0	NR	505	412	NR	635	960	NR	765	48	NR	895	1	NR
380	0	NR	510	442	NR	640	930	NR	770	41	NR	900	1	NR
385	0	NR	515	475	NR	645	889	NR	775	35	NR	905	1	NR
390	0	NR	520	506	NR	650	846	NR	780	30	NR	910	1	NR
395	0	NR	525	535	NR	655	794	NR	785	26	NR	915	1	NR
400	1	NR	530	565	NR	660	740	NR	790	22	NR	920	1	NR
405	2	NR	535	592	NR	665	684	NR	795	19	NR	925	1	NR
410	6	NR	540	615	NR	670	624	NR	800	16	NR	930	0	NR
415	10	NR	545	638	NR	675	567	NR	805	14	NR	935	0	NR
420	20	NR	550	658	NR	680	513	NR	810	12	NR	940	0	NR
425	38	NR	555	678	NR	685	459	NR	815	10	NR	945	0	NR
430	70	NR	560	695	NR	690	412	NR	820	9	NR	950	0	NR
435	136	NR	565	716	NR	695	363	NR	825	8	NR	955	0	NR
440	262	NR	570	740	NR	700	320	NR	830	7	NR	960	0	NR
445	424	NR	575	765	NR	705	281	NR	835	6	NR	965	0	NR
450	406	NR	580	796	NR	710	245	NR	840	5	NR	970	0	NR
455	313	NR	585	827	NR	715	215	NR	845	4	NR	975	0	NR
460	294	NR	590	861	NR	720	188	NR	850	4	NR	980	0	NR
465	250	NR	595	894	NR	725	162	NR	855	3	NR	985	0	NR
470	217	NR	600	927	NR	730	140	NR	860	3	NR	990	0	NR
475	228	NR	605	954	NR	735	121	NR	865	2	NR	995	0	NR
480	249	NR	610	976	NR	740	104	NR	870	2	NR	1000	0	NR
485	276	NR	615	992	NR	745	89	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-14

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.69

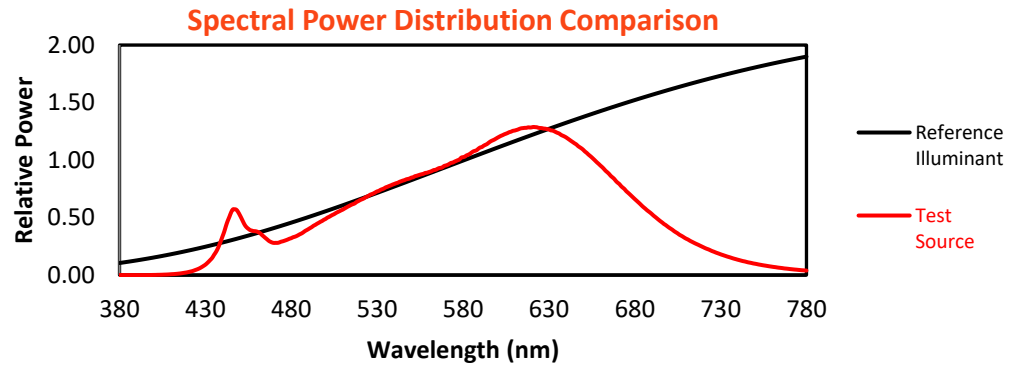
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	310	NR	620	998	NR	750	77	NR	880	2	NR
365	0	NR	495	347	NR	625	993	NR	755	66	NR	885	1	NR
370	0	NR	500	379	NR	630	983	NR	760	56	NR	890	1	NR
375	0	NR	505	412	NR	635	960	NR	765	48	NR	895	1	NR
380	0	NR	510	442	NR	640	930	NR	770	41	NR	900	1	NR
385	0	NR	515	475	NR	645	889	NR	775	35	NR	905	1	NR
390	0	NR	520	506	NR	650	846	NR	780	30	NR	910	1	NR
395	0	NR	525	535	NR	655	794	NR	785	26	NR	915	1	NR
400	1	NR	530	565	NR	660	740	NR	790	22	NR	920	1	NR
405	2	NR	535	592	NR	665	684	NR	795	19	NR	925	1	NR
410	6	NR	540	615	NR	670	624	NR	800	16	NR	930	0	NR
415	10	NR	545	638	NR	675	567	NR	805	14	NR	935	0	NR
420	20	NR	550	658	NR	680	513	NR	810	12	NR	940	0	NR
425	38	NR	555	678	NR	685	459	NR	815	10	NR	945	0	NR
430	70	NR	560	695	NR	690	412	NR	820	9	NR	950	0	NR
435	136	NR	565	716	NR	695	363	NR	825	8	NR	955	0	NR
440	262	NR	570	740	NR	700	320	NR	830	7	NR	960	0	NR
445	424	NR	575	765	NR	705	281	NR	835	6	NR	965	0	NR
450	406	NR	580	796	NR	710	245	NR	840	5	NR	970	0	NR
455	313	NR	585	827	NR	715	215	NR	845	4	NR	975	0	NR
460	294	NR	590	861	NR	720	188	NR	850	4	NR	980	0	NR
465	250	NR	595	894	NR	725	162	NR	855	3	NR	985	0	NR
470	217	NR	600	927	NR	730	140	NR	860	3	NR	990	0	NR
475	228	NR	605	954	NR	735	121	NR	865	2	NR	995	0	NR
480	249	NR	610	976	NR	740	104	NR	870	2	NR	1000	0	NR
485	276	NR	615	992	NR	745	89	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-14

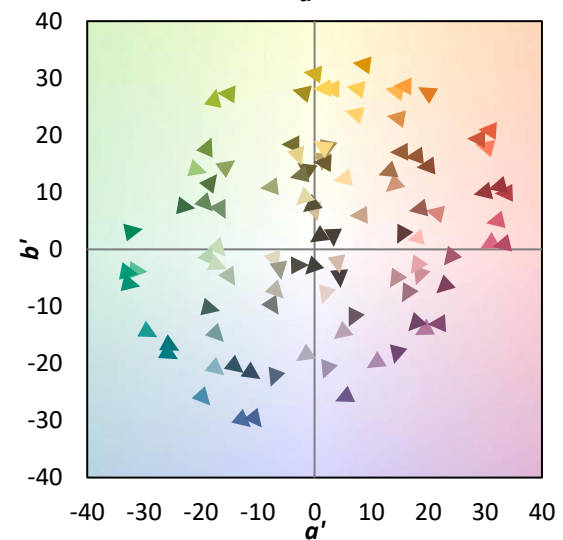
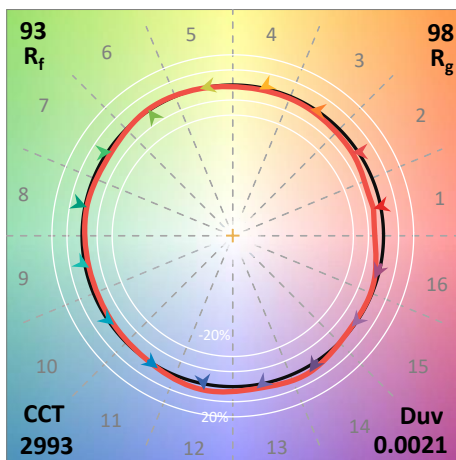
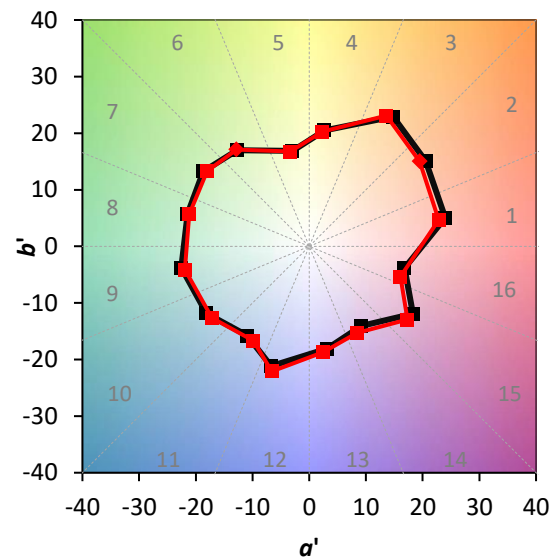
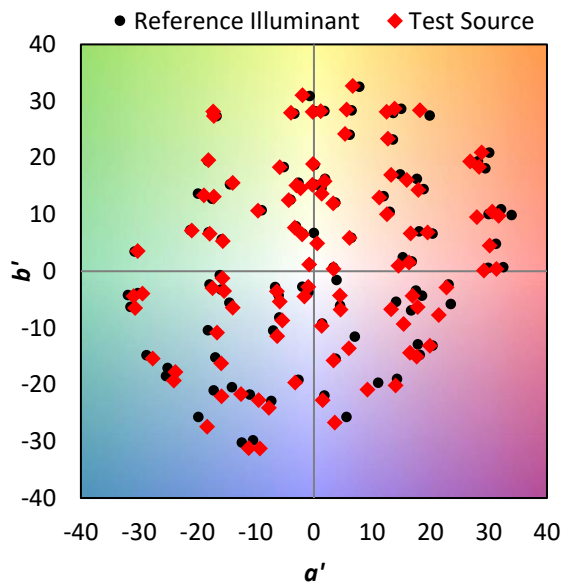
TM-30-18

Summary

$R_f = 92.6$
 $R_g = 98.5$
 $CIE R_a = 92.4$
 $R_9 = 58.2$

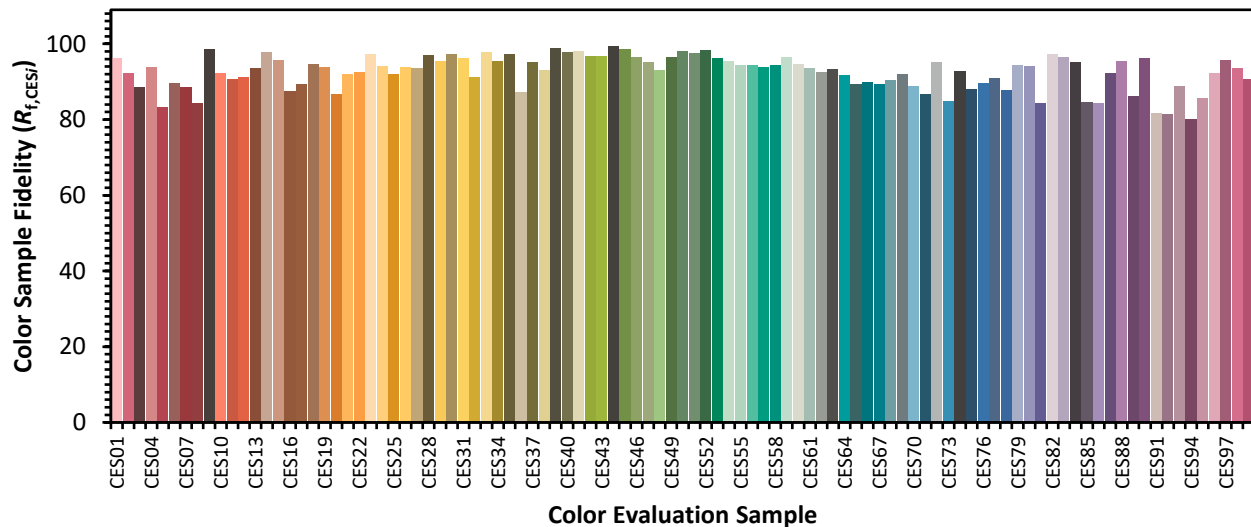


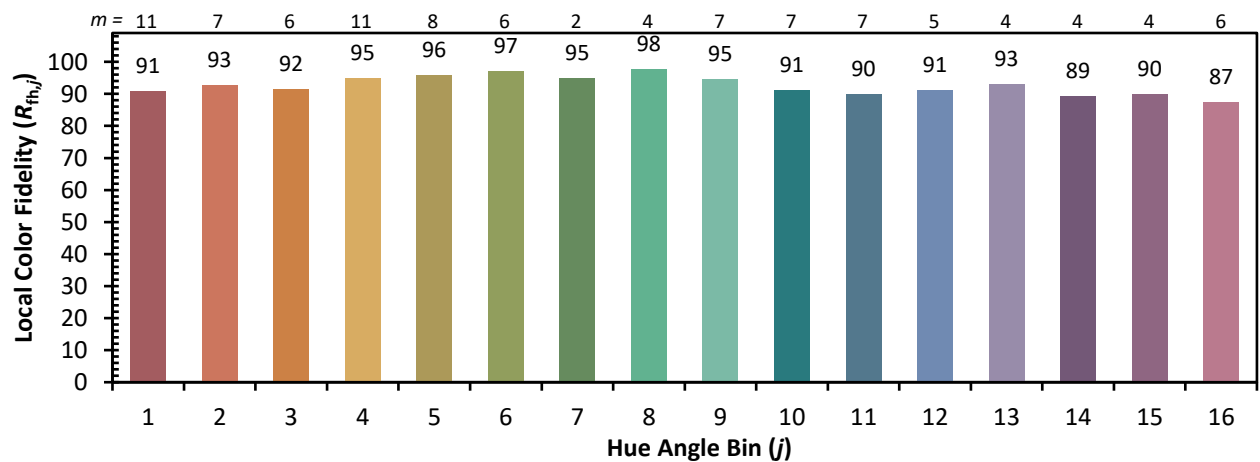
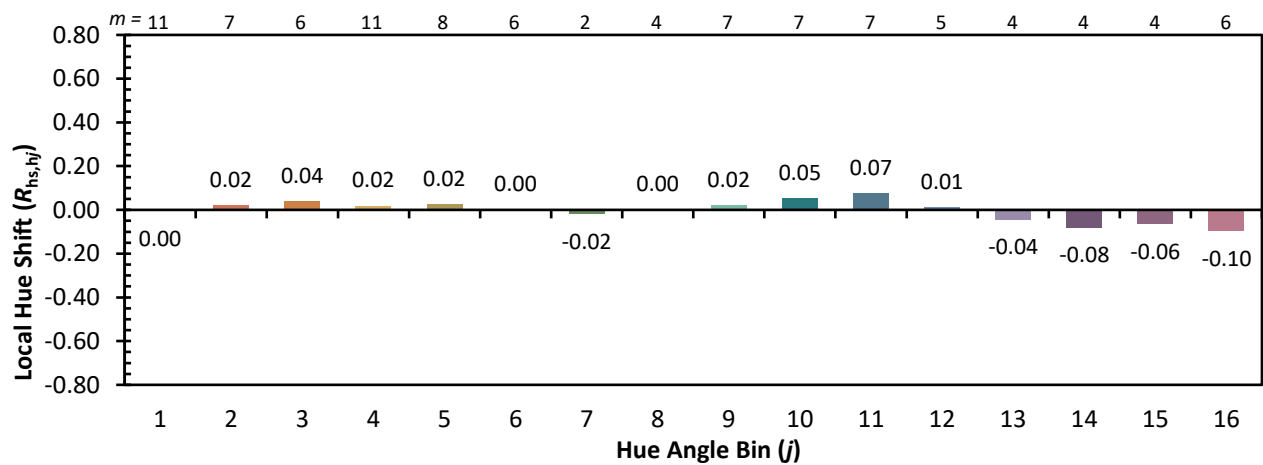
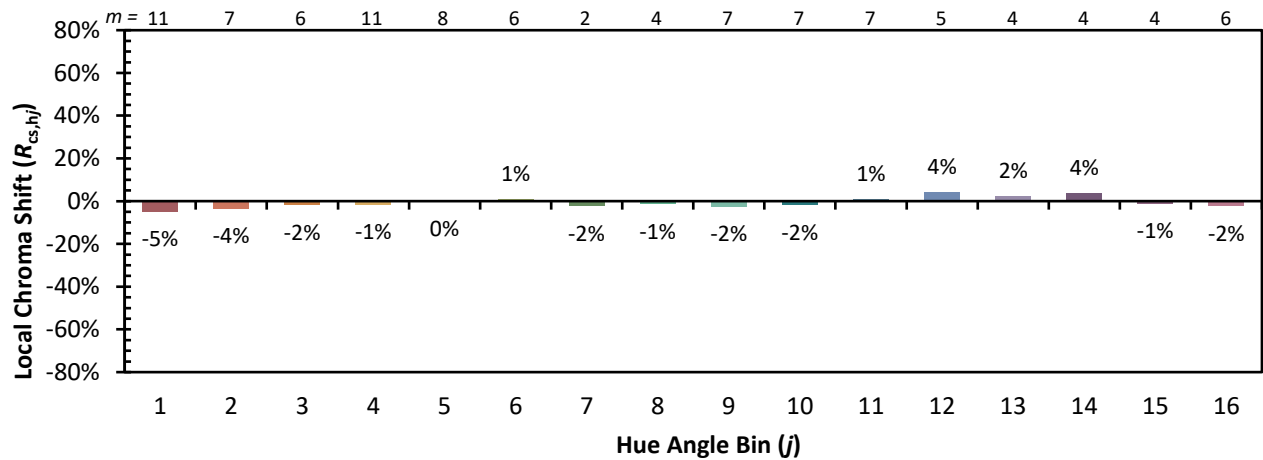
Color Vector Graphics



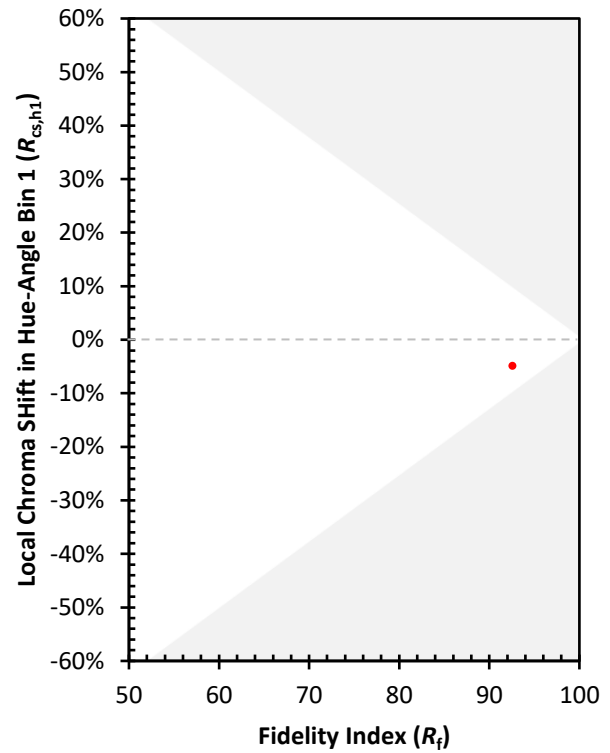
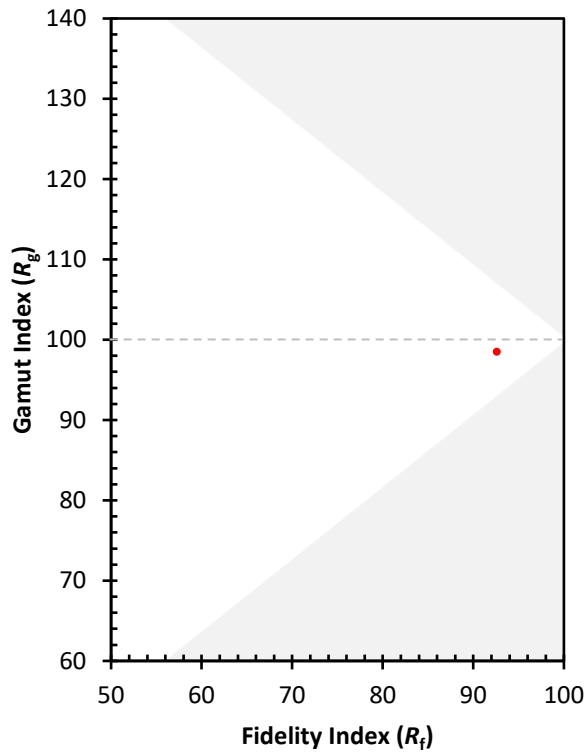
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 94	CES51 = 98	CES76 = 90
CES02 = 63	CES27 = 94	CES52 = 98	CES77 = 91
CES03 = 32	CES28 = 97	CES53 = 96	CES78 = 88
CES04 = 70	CES29 = 95	CES54 = 95	CES79 = 94
CES05 = 51	CES30 = 97	CES55 = 94	CES80 = 94
CES06 = 51	CES31 = 96	CES56 = 94	CES81 = 84
CES07 = 43	CES32 = 91	CES57 = 94	CES82 = 97
CES08 = 42	CES33 = 98	CES58 = 94	CES83 = 97
CES09 = 29	CES34 = 96	CES59 = 97	CES84 = 95
CES10 = 76	CES35 = 97	CES60 = 95	CES85 = 85
CES11 = 59	CES36 = 87	CES61 = 94	CES86 = 84
CES12 = 65	CES37 = 95	CES62 = 92	CES87 = 92
CES13 = 44	CES38 = 93	CES63 = 93	CES88 = 95
CES14 = 74	CES39 = 99	CES64 = 92	CES89 = 86
CES15 = 72	CES40 = 98	CES65 = 89	CES90 = 96
CES16 = 48	CES41 = 98	CES66 = 90	CES91 = 82
CES17 = 50	CES42 = 97	CES67 = 89	CES92 = 81
CES18 = 57	CES43 = 97	CES68 = 90	CES93 = 89
CES19 = 72	CES44 = 99	CES69 = 92	CES94 = 80
CES20 = 67	CES45 = 99	CES70 = 89	CES95 = 86
CES21 = 86	CES46 = 96	CES71 = 87	CES96 = 92
CES22 = 79	CES47 = 95	CES72 = 95	CES97 = 96
CES23 = 92	CES48 = 93	CES73 = 85	CES98 = 94
CES24 = 91	CES49 = 97	CES74 = 93	CES99 = 91
CES25 = 72	CES50 = 98	CES75 = 88	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)