

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: P1049941

Luminaire Tested: **GALN-SA4A-930-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049941
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-930-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 4xLight Square PACKAGE
90CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

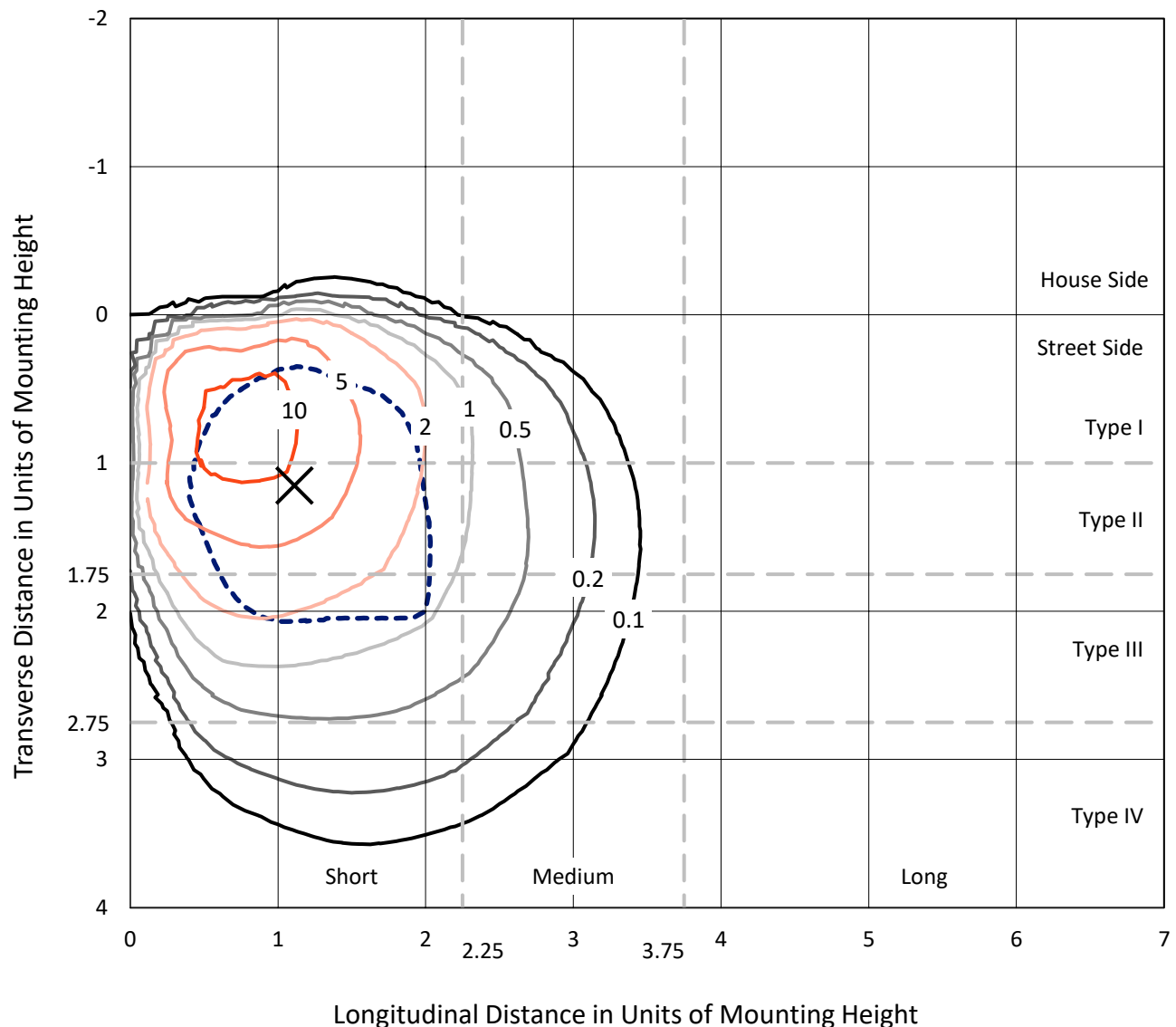
Lumens per Lamp: N/A
Luminaire Lumens: 9184.6 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 107.4
Input Voltage (V): 120
Input Current (A_{in}): 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

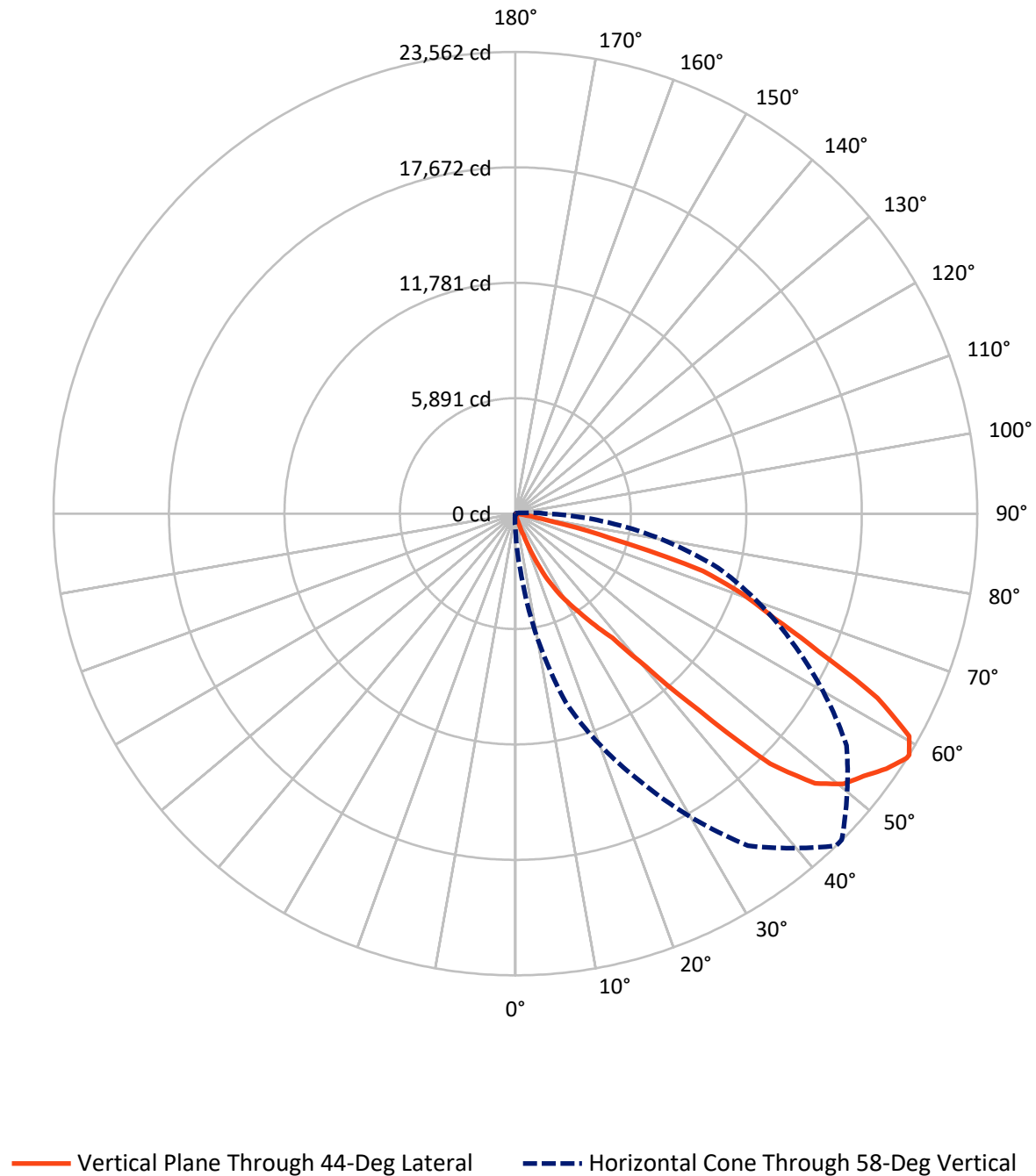
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 16 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	62.7	0.0	62.7
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	9121.9	0.0	9121.9
	% Fixture	99.3	0.0	99.3
Total	Lumens	9184.6	0.0	9184.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.6	0.0
10°-20°	20.1	0.2
20°-30°	217.6	2.4
30°-40°	643.5	7.0
40°-50°	1917.9	20.9
50°-60°	3043.2	33.1
60°-70°	2538.4	27.6
70°-80°	782.9	8.5
80°-90°	17.4	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°	9184.6	100.0
0°-180°	9184.6	100.0



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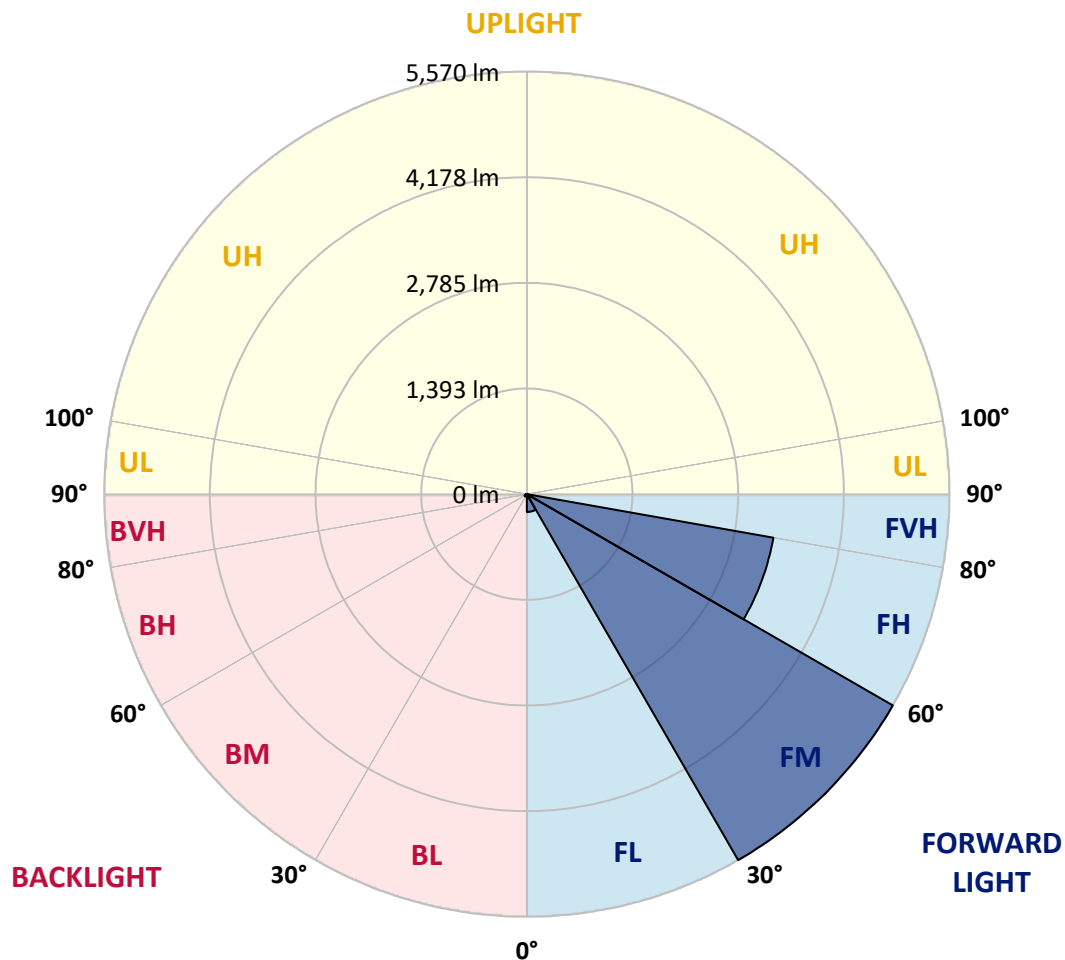
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	235.2	2.6			
FM	(30°-60°)	5570.3	60.6			
FH	(60°-80°)	3299.9	35.9			G2/5000
FVH	(80°-90°)	16.5	0.2			G1/100
BL	(0°-30°)	6.1	0.1	B0/110		
BM	(30°-60°)	34.3	0.4	B0/220		
BH	(60°-80°)	21.4	0.2	B0/110		G0/110
BVH	(80°-90°)	0.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
2.5°	52.0	52.0	50.0	47.2	44.4	41.6	40.9	39.5	38.9	38.2
5°	54.1	54.1	53.4	51.3	48.6	46.5	46.5	44.4	43.0	41.6
7.5°	55.5	56.2	57.6	56.9	55.5	53.4	53.4	52.0	50.0	46.5
10°	57.6	59.7	62.4	63.8	64.5	64.5	63.8	63.1	59.7	54.8
12.5°	59.7	63.8	70.8	77.7	81.9	87.4	86.7	85.3	76.3	65.9
15°	63.8	70.1	84.6	104.8	136.0	155.4	163.0	156.1	126.3	88.8
17.5°	68.7	79.1	122.8	219.2	359.4	426.0	466.2	433.6	287.2	168.6
20°	73.5	96.4	228.3	568.2	932.5	1150.4	1210.7	1116.4	716.7	321.2
22.5°	81.9	135.3	462.8	1174.6	2009.3	2336.1	2397.8	2096.0	1353.6	634.2
25°	99.2	196.4	797.9	1914.3	2998.7	3550.3	3524.6	3129.1	2195.9	1013.0
27.5°	124.2	285.9	1206.6	2719.8	3946.5	4432.8	4491.1	4002.0	2927.2	1489.6
30°	160.3	396.2	1645.0	3365.0	4706.2	5232.1	5241.8	4736.0	3581.5	1908.0
32.5°	195.0	500.2	2028.7	3988.8	5454.8	6031.4	6074.4	5452.0	4070.0	2343.7
35°	221.3	568.2	2417.3	4536.9	6209.7	7004.1	7001.3	6262.4	4648.6	2733.0
37.5°	223.4	636.2	2769.0	5097.5	7165.8	8055.3	8143.4	7328.8	5348.0	3214.5
40°	218.6	712.6	3214.5	5971.7	8888.5	10253.3	10331.0	9304.1	6750.9	4038.7
42.5°	224.1	845.1	3937.4	7586.2	11749.2	13709.2	13859.1	12779.5	9329.8	5720.6
45°	253.2	1094.2	5452.0	10287.3	15826.8	18216.3	18166.3	16611.5	12330.6	8280.8
47.5°	349.7	1704.0	7697.2	12916.2	18432.7	20560.7	20603.7	18703.3	14081.8	10249.1
50°	537.7	2607.4	9583.7	14305.9	19553.3	21688.1	21647.9	19452.0	14747.2	11218.4
52.5°	699.4	3261.0	10530.1	14793.7	19696.9	22245.3	22242.5	19649.0	14850.5	11301.6
55°	739.6	3310.2	10537.8	14820.0	20018.8	22974.5	23066.1	20134.0	14984.5	10938.1
57.5°	723.7	2930.7	10097.9	14972.7	20591.9	23538.6	23543.4	20603.7	15324.4	10715.4
58°	709.8	2871.0	10009.1	15059.4	20690.4	23562.2	23550.4	20625.2	15601.3	10707.0
60°	632.1	2492.9	9662.8	15280.7	20544.0	23077.9	22967.6	20155.5	15560.3	10621.7
62.5°	496.8	1944.8	9322.2	15024.7	18974.6	20733.5	20779.2	17844.4	14185.2	10124.2
65°	395.5	1449.4	8611.7	13179.1	15624.8	17026.4	17197.0	14510.6	11840.1	8572.9
67.5°	315.0	1047.7	7224.1	10492.7	12363.9	14210.1	14334.3	12182.8	9173.0	6568.4
70°	256.0	708.4	4986.5	7673.7	10197.8	12273.7	12281.3	10120.8	6846.6	4303.8
72.5°	226.9	490.5	2894.6	5596.4	8269.0	10001.4	9799.5	8212.8	5261.9	2549.1
75°	196.4	325.4	1419.6	3421.2	5013.6	5047.5	5124.6	3809.8	2630.3	1212.1
77.5°	161.7	231.0	559.2	934.6	1503.5	1924.7	1996.1	1512.5	874.9	298.3
80°	111.0	109.6	150.6	286.5	430.2	539.1	503.0	389.2	229.0	114.5
82.5°	47.9	52.0	68.0	81.9	66.6	64.5	61.8	39.5	30.5	23.6
85°	15.3	13.9	14.6	14.6	11.8	9.0	9.0	4.2	0.0	0.0
87.5°	7.6	6.2	6.2	5.6	3.5	1.4	0.7	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°
40.2	0°	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
37.5	2.5°	36.8	36.8	35.4	34.0	33.3	31.9	31.2	30.5	29.8	29.1
40.2	5°	38.9	38.2	36.1	34.0	31.9	29.8	28.4	27.1	25.7	25.0
44.4	7.5°	42.3	40.9	36.8	33.3	30.5	27.8	26.4	24.3	22.9	20.8
49.3	10°	46.5	43.7	38.2	34.0	29.8	26.4	24.3	22.2	20.1	17.3
56.2	12.5°	52.0	47.2	40.2	33.3	28.4	24.3	22.2	19.4	17.3	15.3
65.2	15°	56.9	50.6	40.9	33.3	27.1	22.2	19.4	16.7	14.6	11.8
81.9	17.5°	63.8	53.4	40.2	31.2	25.0	19.4	16.7	14.6	11.1	6.9
121.4	20°	75.6	55.5	38.9	29.1	21.5	16.0	12.5	9.7	4.9	1.4
182.5	22.5°	94.4	61.1	37.5	26.4	18.7	12.5	8.3	3.5	0.0	0.0
277.5	25°	130.4	70.8	37.5	25.0	16.7	9.0	2.8	0.0	0.0	0.0
394.1	27.5°	173.5	84.0	37.5	21.5	13.2	4.9	0.0	0.0	0.0	0.0
537.0	30°	217.2	98.5	37.5	18.7	10.4	0.7	0.0	0.0	0.0	0.0
661.2	32.5°	258.8	111.0	38.2	16.0	6.9	0.0	0.0	0.0	0.0	0.0
833.3	35°	301.1	113.1	37.5	13.9	4.2	0.0	0.0	0.0	0.0	0.0
1044.2	37.5°	355.2	108.9	35.4	12.5	2.1	0.0	0.0	0.0	0.0	0.0
1373.8	40°	437.1	111.0	33.3	11.8	0.7	0.0	0.0	0.0	0.0	0.0
1961.4	42.5°	588.4	120.0	30.5	11.8	0.0	0.0	0.0	0.0	0.0	0.0
3124.3	45°	1017.1	161.0	27.8	12.5	0.0	0.0	0.0	0.0	0.0	0.0
4690.2	47.5°	1682.5	289.3	27.1	12.5	0.0	0.0	0.0	0.0	0.0	0.0
5649.8	50°	2147.4	364.3	28.4	13.2	0.0	0.0	0.0	0.0	0.0	0.0
5769.8	52.5°	2143.9	405.9	29.8	13.9	2.8	0.0	0.0	0.0	0.0	0.0
5318.1	55°	1905.9	413.5	31.9	15.3	9.0	0.0	0.0	0.0	0.0	0.0
4570.2	57.5°	1593.0	377.4	36.8	18.7	16.7	0.0	0.0	0.0	0.0	0.0
4452.9	58°	1537.5	360.8	38.2	19.4	18.0	0.0	0.0	0.0	0.0	0.0
3862.5	60°	1260.0	294.2	48.6	24.3	24.3	0.0	0.0	0.0	0.0	0.0
3166.6	62.5°	870.1	256.7	55.5	31.2	25.0	0.0	0.0	0.0	0.0	0.0
2334.7	65°	615.4	231.7	60.4	33.3	20.1	0.0	0.0	0.0	0.0	0.0
1658.9	67.5°	460.0	213.7	66.6	34.0	10.4	0.0	0.0	0.0	0.0	0.0
1040.7	70°	352.5	200.5	81.9	36.1	2.8	0.0	0.0	0.0	0.0	0.0
620.3	72.5°	287.2	185.3	99.2	37.5	0.0	0.0	0.0	0.0	0.0	0.0
371.9	75°	238.0	167.2	95.7	40.9	0.0	0.0	0.0	0.0	0.0	0.0
198.4	77.5°	158.2	129.7	87.4	40.9	0.0	0.0	0.0	0.0	0.0	0.0
70.8	80°	55.5	51.3	68.0	36.1	0.0	0.0	0.0	0.0	0.0	0.0
14.6	82.5°	8.3	6.9	9.7	12.5	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°
40.2	0°	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
28.4	2.5°	28.4	28.4	27.8	28.4	28.4	29.8	33.3	38.2	43.7	45.8
24.3	5°	23.6	22.9	22.2	22.2	22.2	24.3	27.1	32.6	38.9	41.6
20.1	7.5°	19.4	18.7	18.0	17.3	17.3	18.7	22.2	28.4	34.7	37.5
16.7	10°	16.0	14.6	13.9	13.2	13.2	14.6	18.0	24.3	31.2	34.0
13.9	12.5°	13.2	11.1	9.7	9.0	8.3	10.4	13.9	19.4	27.1	30.5
10.4	15°	9.0	6.9	4.9	4.2	3.5	5.6	9.0	15.3	22.9	27.1
5.6	17.5°	4.9	2.1	0.7	0.0	0.0	1.4	4.2	11.1	18.7	22.2
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	13.9	17.3
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	8.3	11.8
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	6.2
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
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	2.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.6
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°
40.2	0°	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
47.9	2.5°	49.3	48.6	47.2	45.8	45.8	45.8	47.9	50.0	52.0	52.0
43.0	5°	45.8	45.8	45.1	43.7	43.7	44.4	47.2	50.6	53.4	54.1
39.5	7.5°	42.3	43.7	42.3	41.6	42.3	43.0	45.8	50.0	54.1	55.5
36.8	10°	40.2	40.9	40.9	40.2	40.2	41.6	44.4	50.0	55.5	57.6
33.3	12.5°	37.5	38.9	38.2	38.2	38.2	39.5	43.0	49.3	56.9	59.7
29.8	15°	34.7	36.8	36.8	36.1	36.1	36.8	41.6	48.6	59.0	63.8
25.7	17.5°	31.9	34.0	34.7	33.3	33.3	34.7	39.5	48.6	60.4	68.7
20.8	20°	26.4	29.8	31.9	29.8	29.8	31.2	36.1	45.8	61.1	73.5
15.3	22.5°	20.8	24.3	27.1	26.4	26.4	27.1	33.3	43.7	61.8	81.9
9.0	25°	15.3	18.7	20.8	22.2	22.2	24.3	30.5	42.3	64.5	99.2
4.2	27.5°	9.0	13.2	16.0	17.3	18.0	20.8	28.4	40.9	69.4	124.2
0.0	30°	4.2	7.6	11.1	13.9	13.9	18.7	26.4	39.5	75.6	160.3
0.0	32.5°	0.0	3.5	5.6	9.7	10.4	15.3	24.3	38.2	84.6	195.0
0.0	35°	0.0	0.0	2.8	7.6	7.6	12.5	22.2	36.8	98.5	221.3
0.0	37.5°	0.0	0.0	0.0	5.6	6.2	11.1	21.5	36.1	101.3	223.4
0.0	40°	0.0	0.0	0.0	4.2	4.9	10.4	21.5	36.8	91.6	218.6
0.0	42.5°	0.0	0.0	0.0	2.8	3.5	10.4	21.5	38.2	82.6	224.1
0.0	45°	0.0	0.0	0.0	2.1	2.8	11.1	20.8	37.5	77.7	253.2
0.0	47.5°	0.0	0.0	0.0	2.8	4.2	11.1	20.1	36.8	78.4	349.7
0.0	50°	0.0	0.0	0.0	3.5	4.9	11.1	20.8	35.4	86.0	537.7
0.0	52.5°	0.0	0.0	0.0	2.8	4.2	12.5	22.9	34.7	93.7	699.4
0.0	55°	0.0	0.0	0.0	0.7	2.1	16.0	25.0	34.7	105.5	739.6
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	18.0	28.4	36.8	124.9	723.7
0.0	58°	0.0	0.0	0.0	0.0	0.0	18.0	29.1	36.8	126.3	709.8
0.0	60°	0.0	0.0	0.0	0.0	0.0	18.0	31.9	40.9	136.0	632.1
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	15.3	38.2	51.3	141.5	496.8
0.0	65°	0.0	0.0	0.0	0.0	0.0	12.5	45.1	56.2	145.7	395.5
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	11.8	46.5	56.9	147.8	315.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	12.5	45.8	61.1	154.7	256.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	13.9	41.6	67.3	154.7	226.9
0.0	75°	0.0	0.0	0.0	0.0	0.0	14.6	38.9	75.6	140.8	196.4
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	13.9	38.2	88.1	125.6	161.7
0.0	80°	1.4	2.1	2.1	1.4	1.4	11.8	37.5	89.5	106.8	111.0
0.7	82.5°	4.2	5.6	4.9	3.5	3.5	10.4	33.3	74.9	55.5	47.9
4.2	85°	7.6	9.0	9.0	7.6	7.6	9.7	20.8	27.1	18.7	15.3
7.6	87.5°	10.4	11.8	11.8	10.4	10.4	9.7	9.0	8.3	7.6	7.6
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

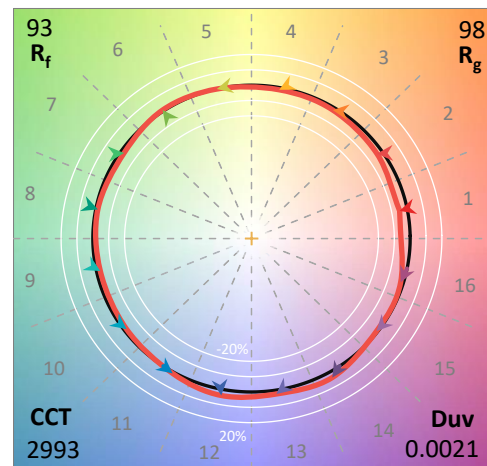
Test Information

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

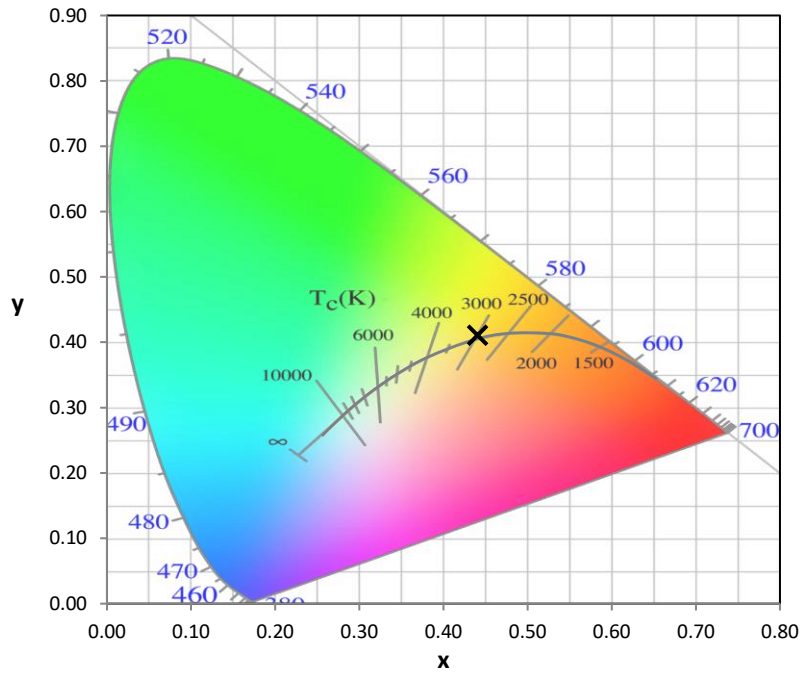
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-14

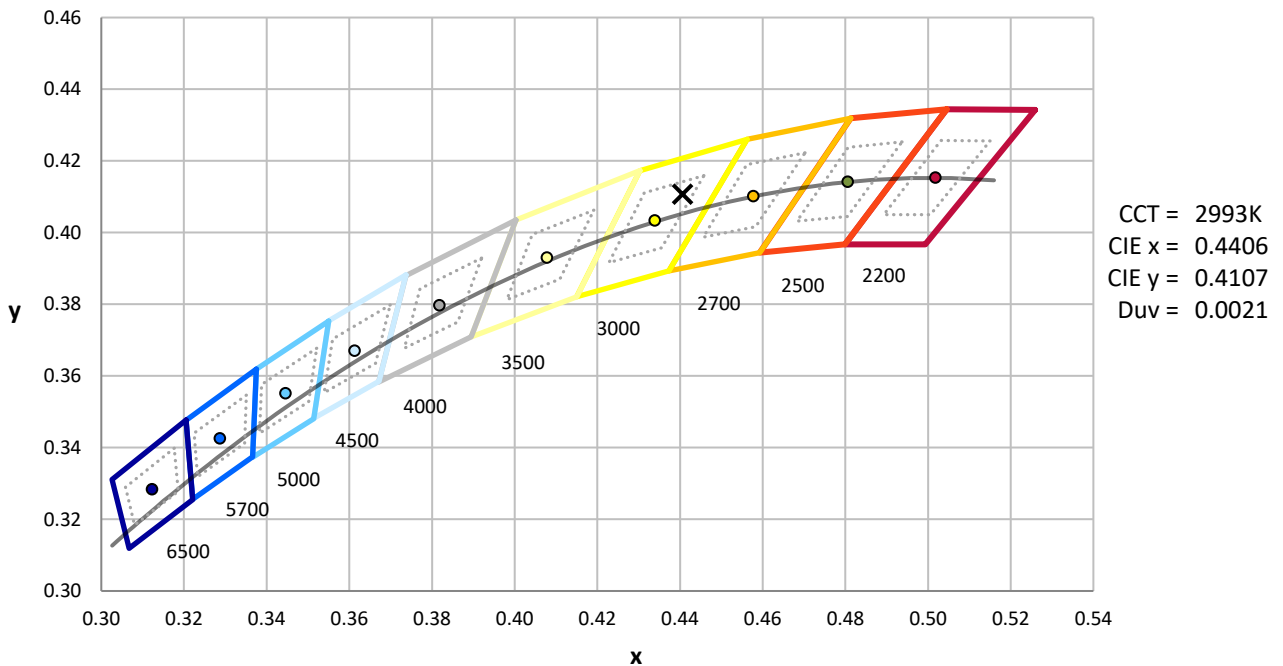
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



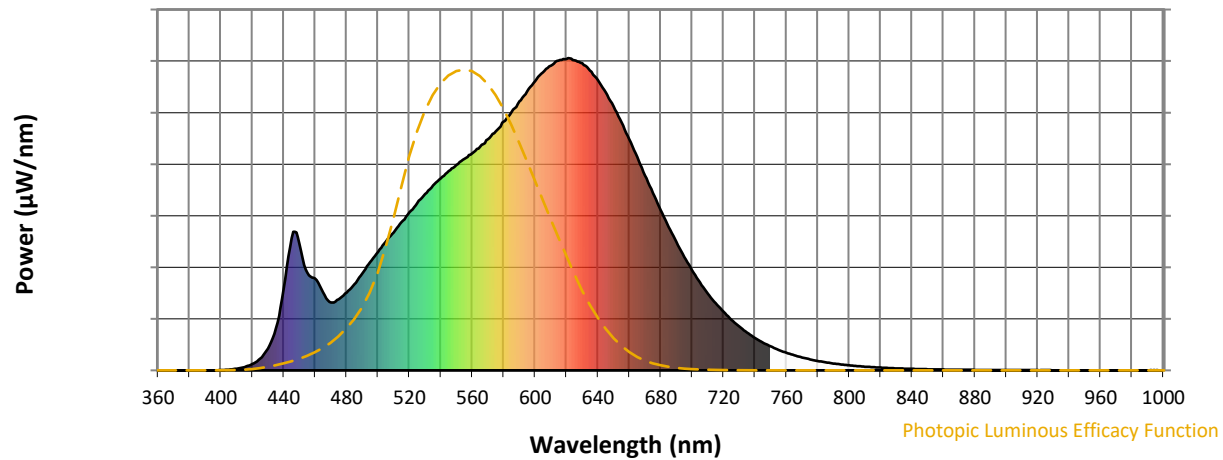
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-14

Photopic Flux vs. Wavelength

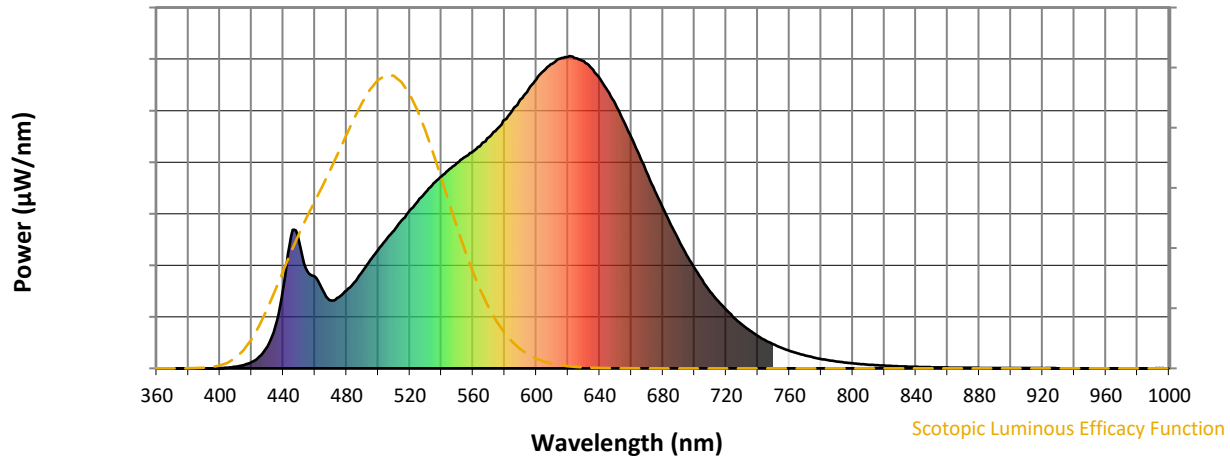


Photopic Lumens: NR

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



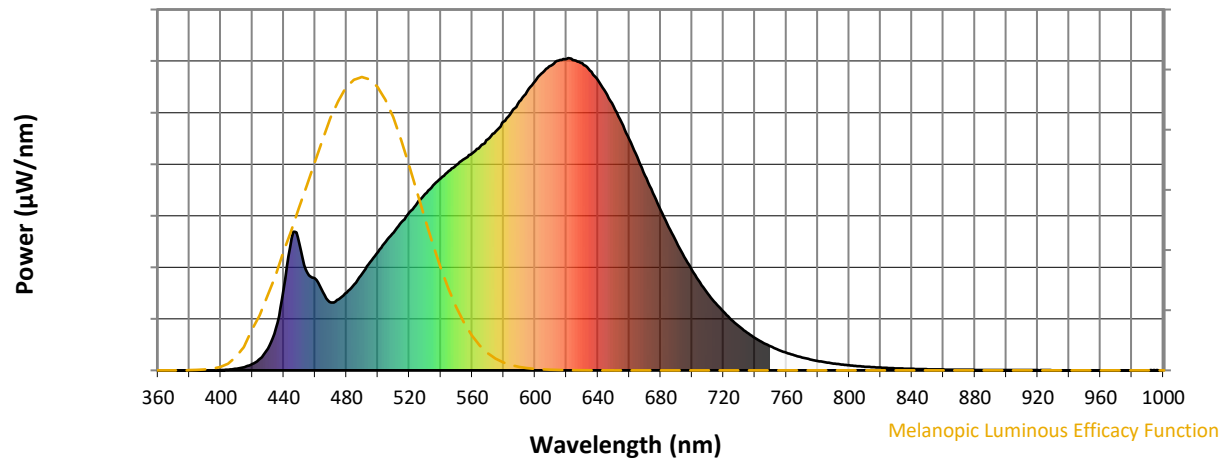
Scotopic Lumens: NR

S/P: 1.39

λ (nm)	Power 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	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			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.69

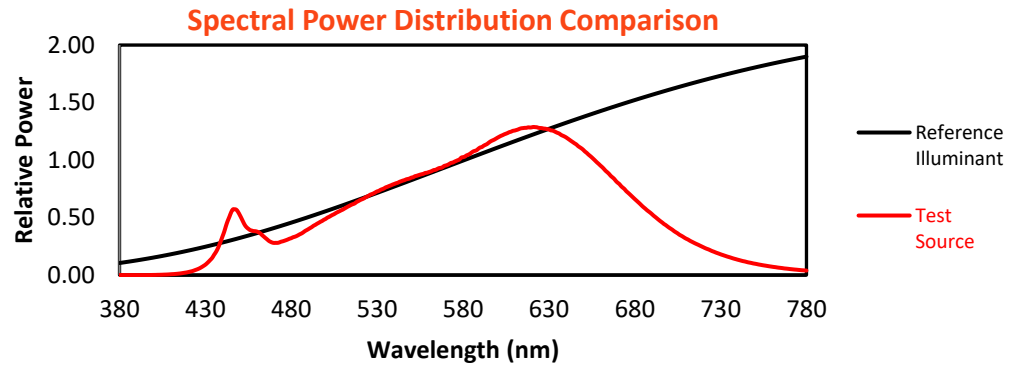
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	310	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			

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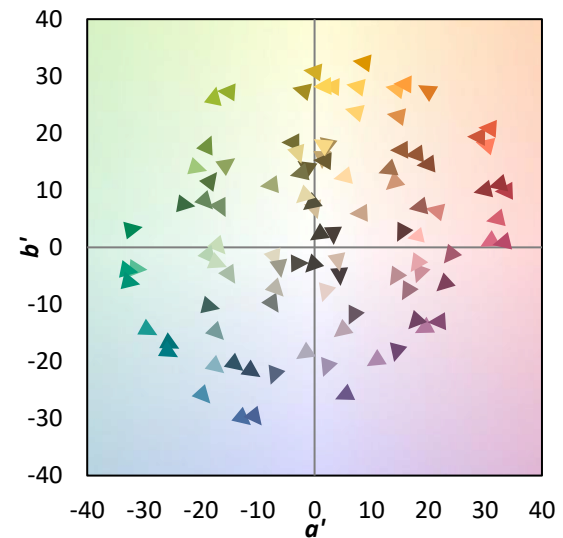
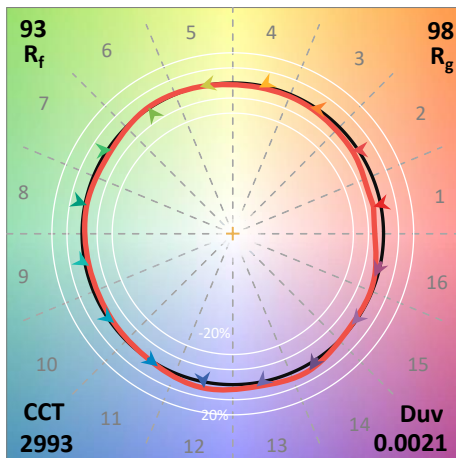
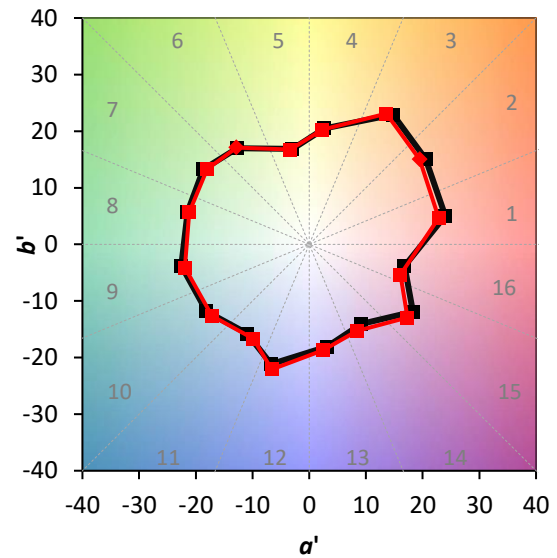
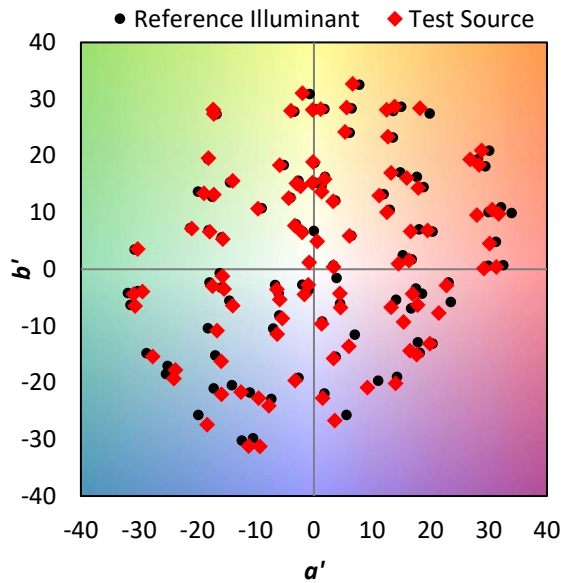
TM-30-18

Summary

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

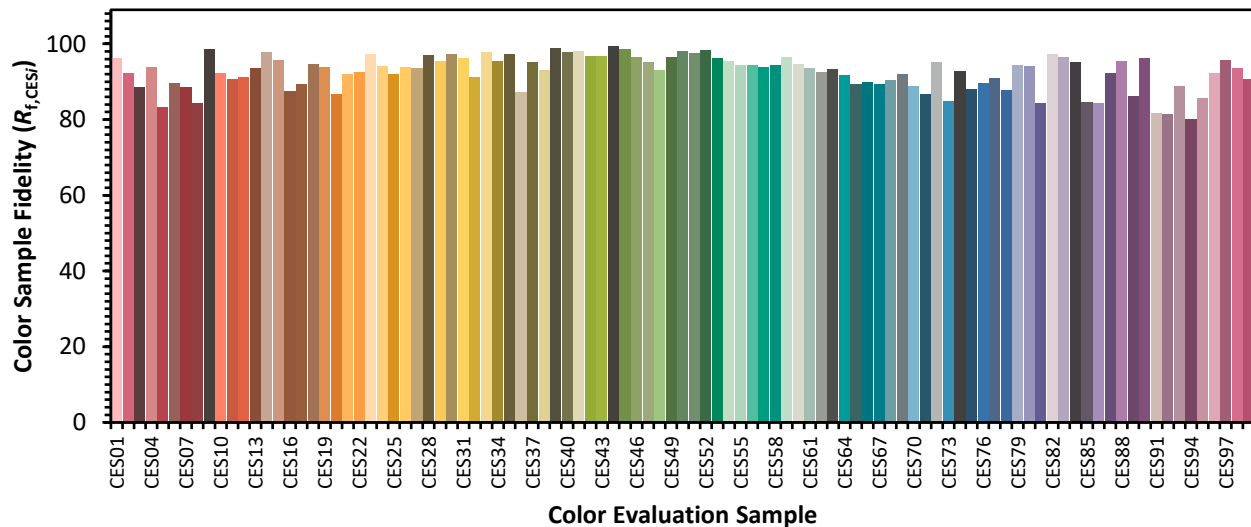


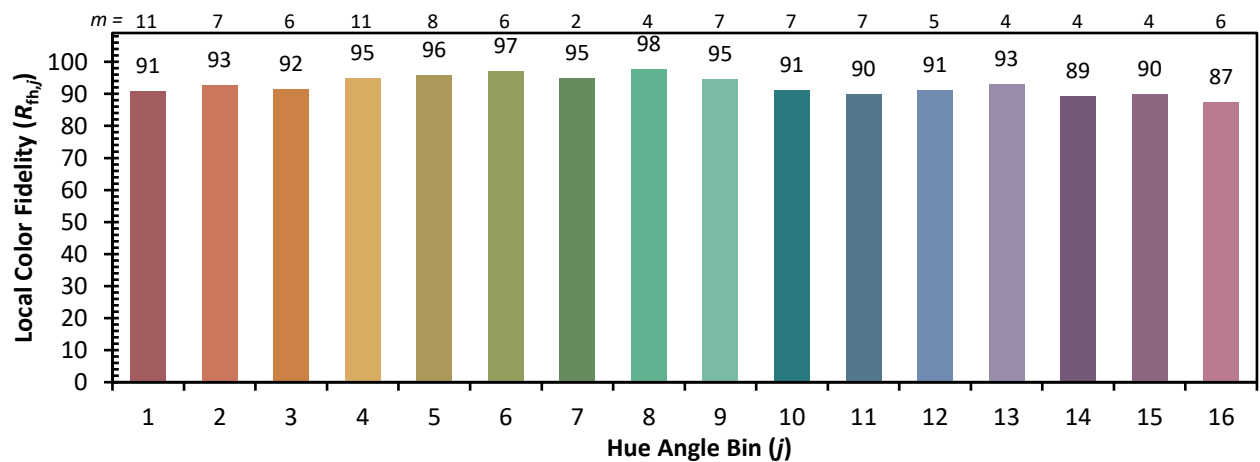
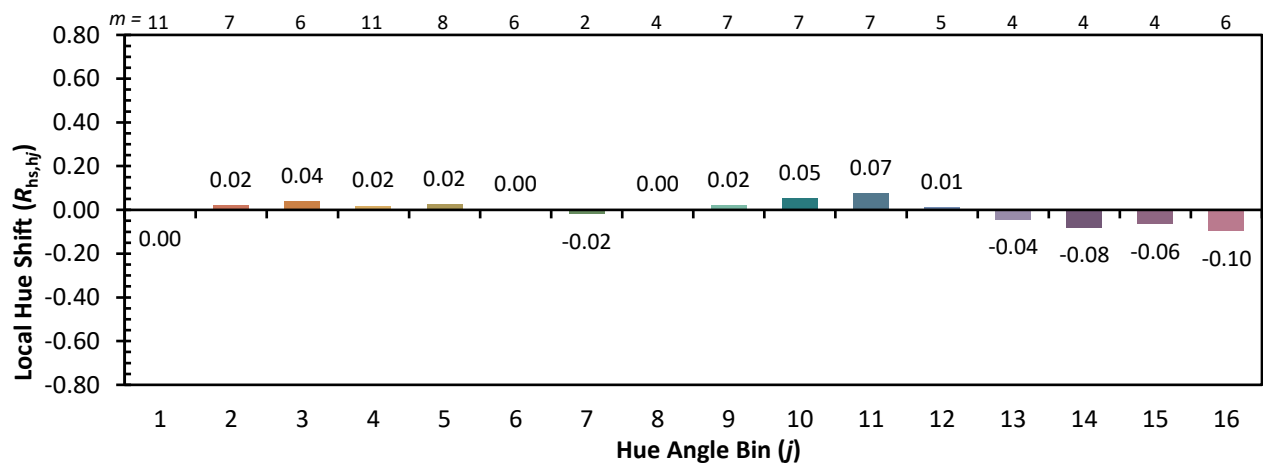
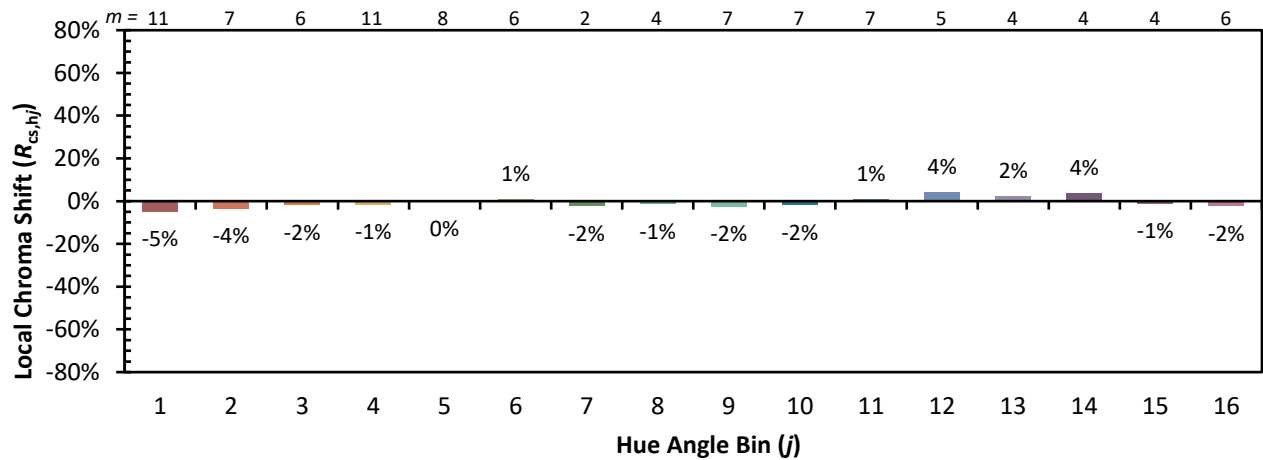
Color Vector Graphics



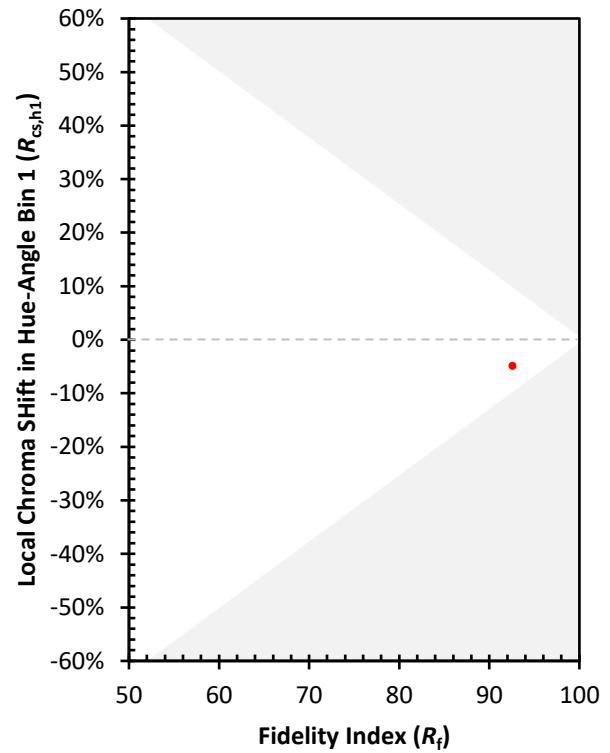
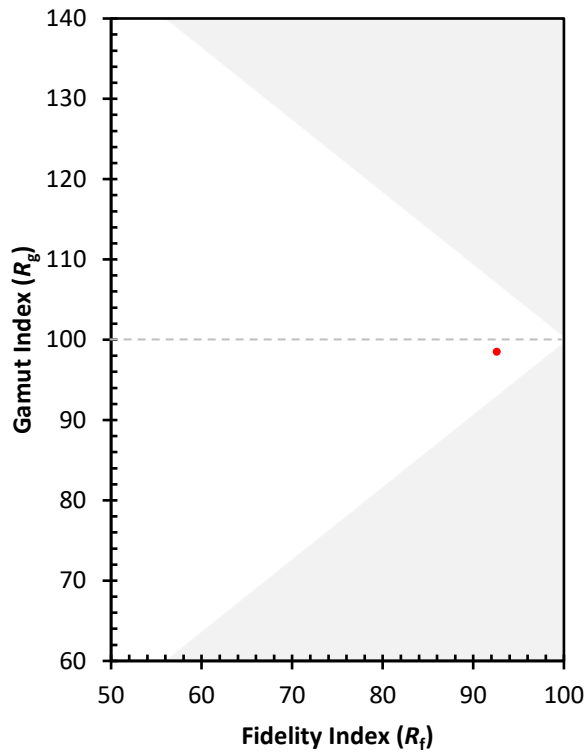
Individual Sample Fidelity Index ($R_{f,i}$)

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)