

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: P1049949

Luminaire Tested: **GALN-SA6A-930-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049949
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-930-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 6xLight Square PACKAGE
90CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13434.2 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

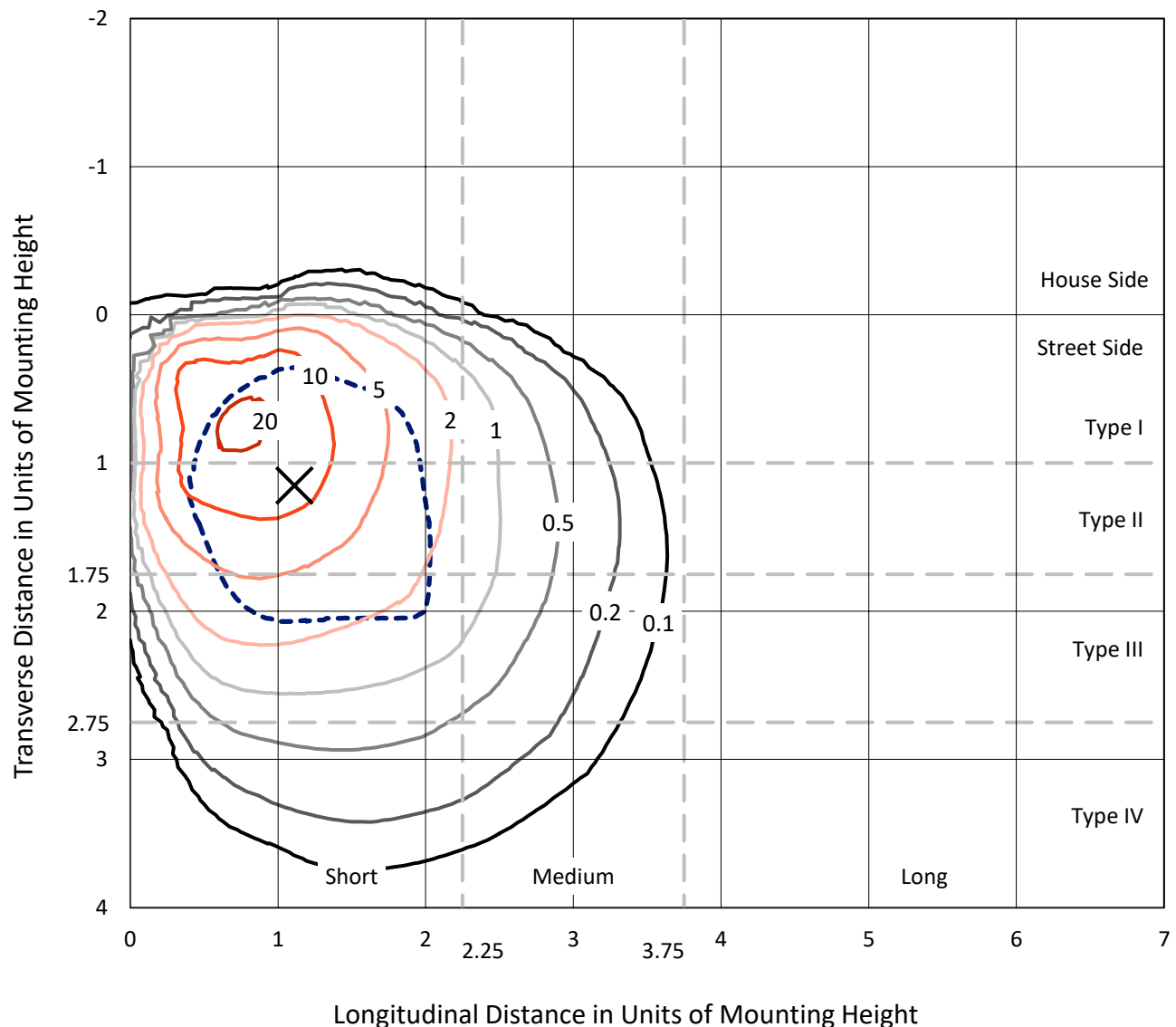
Input Watts (W): 162.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1049949

CATALOG NUMBER: GALN-SA6A-930-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

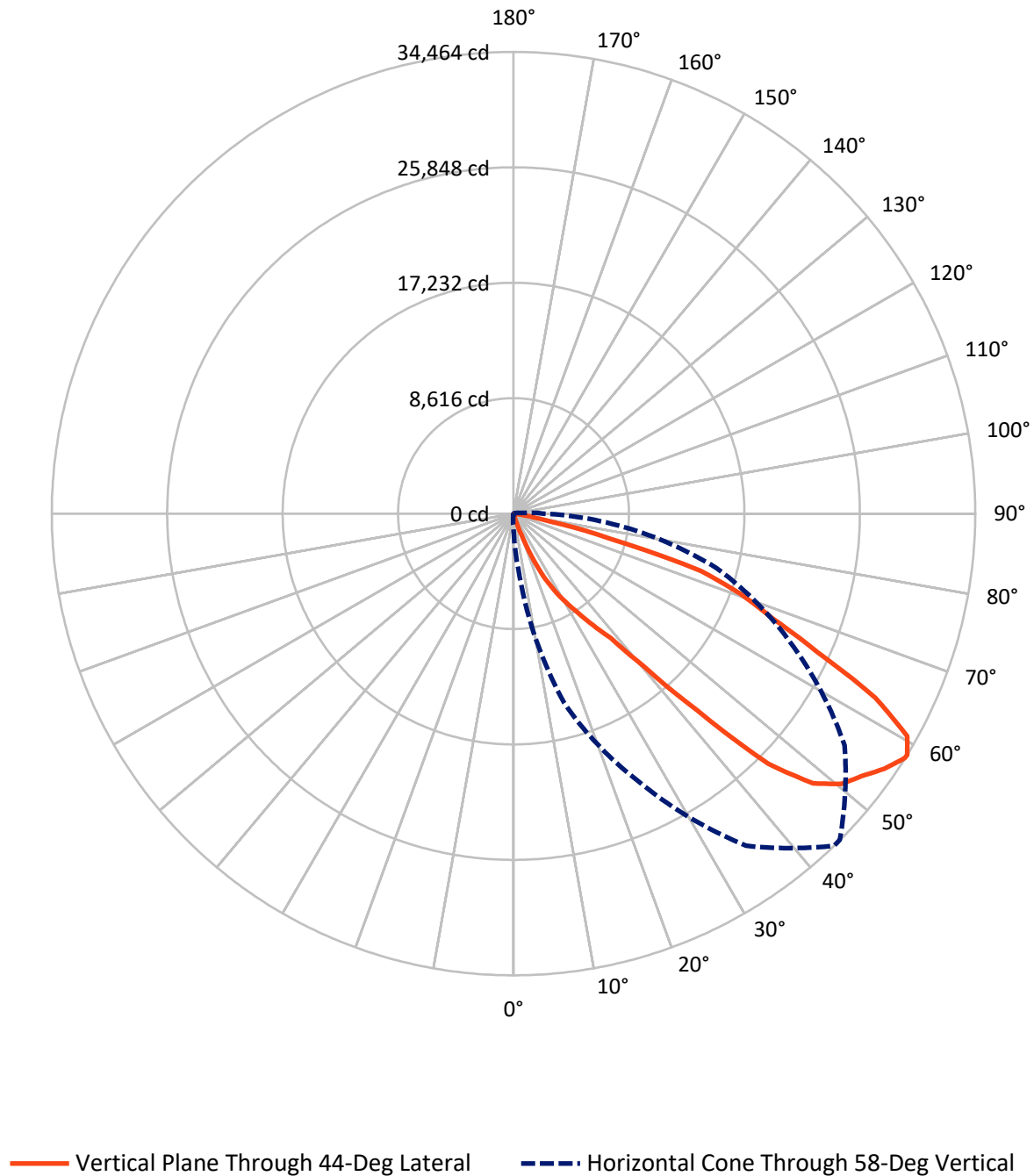
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 23.4 fc
 Type III - Short - N/A

REPORT NUMBER: P1049949
CATALOG NUMBER: GALN-SA6A-930-U-LBC

Luminous Intensity Polar Plot



REPORT NUMBER: P1049949

CATALOG NUMBER: GALN-SA6A-930-U-LBC

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	91.7	0.0	91.7
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	13342.5	0.0	13342.5
	% Fixture	99.3	0.0	99.3
Total	Lumens	13434.2	0.0	13434.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	0.0
10°-20°	29.5	0.2
20°-30°	318.3	2.4
30°-40°	941.2	7.0
40°-50°	2805.3	20.9
50°-60°	4451.3	33.1
60°-70°	3712.9	27.6
70°-80°	1145.1	8.5
80°-90°	25.4	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°	13434.2	100.0
0°-180°	13434.2	100.0

Coefficient of Utilization



REPORT NUMBER: P1049949

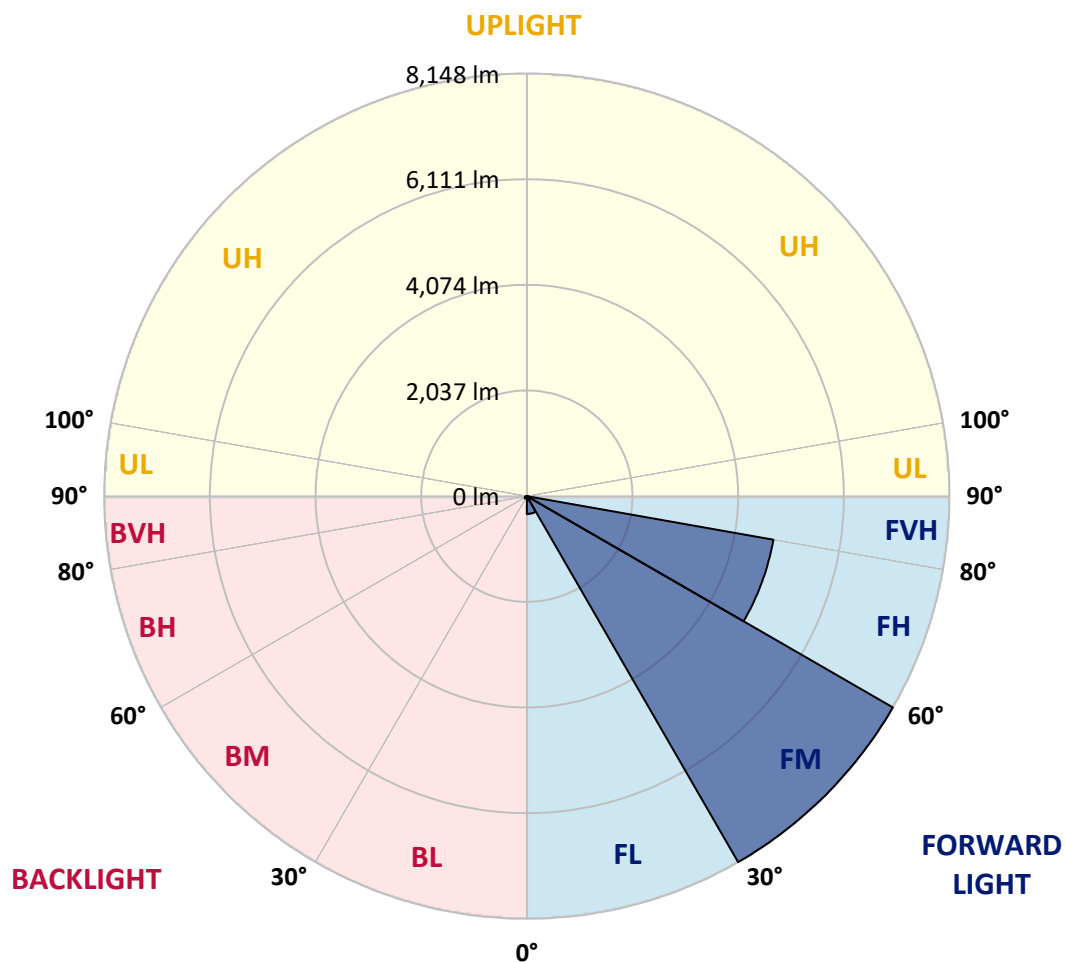
CATALOG NUMBER: GALN-SA6A-930-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	344.0	2.6			
FM	(30°-60°)	8147.6	60.6			
FH	(60°-80°)	4826.7	35.9			G2/5000
FVH	(80°-90°)	24.2	0.2			G1/100
BL	(0°-30°)	9.0	0.1	B0/110		
BM	(30°-60°)	50.2	0.4	B0/220		
BH	(60°-80°)	31.3	0.2	B0/110		G0/110
BVH	(80°-90°)	1.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type III Short



REPORT NUMBER: P1049949

CATALOG NUMBER: GALN-SA6A-930-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
2.5°	76.1	76.1	73.1	69.0	64.9	60.9	59.9	57.8	56.8	55.8
5°	79.2	79.2	78.1	75.1	71.0	68.0	68.0	64.9	62.9	60.9
7.5°	81.2	82.2	84.2	83.2	81.2	78.1	78.1	76.1	73.1	68.0
10°	84.2	87.3	91.3	93.4	94.4	94.4	93.4	92.4	87.3	80.2
12.5°	87.3	93.4	103.5	113.7	119.8	127.9	126.9	124.8	111.6	96.4
15°	93.4	102.5	123.8	153.2	198.9	227.3	238.5	228.3	184.7	129.9
17.5°	100.5	115.7	179.6	320.7	525.7	623.1	682.0	634.3	420.1	246.6
20°	107.6	141.1	333.9	831.2	1363.9	1682.6	1770.9	1632.9	1048.3	469.9
22.5°	119.8	197.9	676.9	1718.1	2939.0	3417.0	3507.3	3065.8	1980.0	927.6
25°	145.1	287.2	1167.1	2800.0	4386.1	5192.9	5155.4	4576.9	3212.0	1481.7
27.5°	181.7	418.1	1764.8	3978.2	5772.4	6483.8	6569.1	5853.6	4281.6	2178.9
30°	234.4	579.5	2406.2	4922.0	6883.7	7652.9	7667.1	6927.3	5238.6	2790.8
32.5°	285.2	731.7	2967.4	5834.3	7978.7	8822.0	8884.9	7974.6	5953.1	3428.1
35°	323.7	831.2	3535.7	6636.1	9082.8	10244.8	10240.8	9160.0	6799.4	3997.5
37.5°	326.8	930.6	4050.2	7456.0	10481.3	11782.3	11911.2	10719.8	7822.4	4701.8
40°	319.7	1042.2	4701.8	8734.8	13001.1	14997.3	15111.0	13609.0	9874.4	5907.4
42.5°	327.8	1236.1	5759.2	11096.3	17185.3	20052.3	20271.5	18692.4	13646.6	8367.4
45°	370.4	1600.4	7974.6	15047.1	23149.6	26644.7	26571.6	24297.4	18035.8	12112.1
47.5°	511.5	2492.5	11258.7	18892.3	26961.3	30073.8	30136.8	27357.1	20597.2	14991.3
50°	786.5	3813.8	14018.0	20925.0	28600.3	31723.0	31664.1	28452.1	21570.5	16409.0
52.5°	1023.0	4769.8	15402.3	21638.5	28810.4	32537.9	32533.8	28740.3	21721.7	16530.8
55°	1081.8	4841.8	15413.4	21677.0	29281.3	33604.5	33738.4	29449.7	21917.6	15999.0
57.5°	1058.5	4286.7	14770.0	21900.3	30119.5	34429.6	34436.7	30136.8	22414.8	15673.2
58°	1038.2	4199.4	14640.1	22027.2	30263.6	34464.1	34446.8	30168.2	22819.8	15661.1
60°	924.5	3646.3	14133.7	22350.9	30049.5	33755.7	33594.3	29481.2	22759.9	15536.2
62.5°	726.6	2844.6	13635.4	21976.4	27753.9	30326.5	30393.5	26100.7	20748.5	14808.6
65°	578.5	2120.0	12596.2	19276.9	22854.3	24904.2	25153.9	21224.4	17318.3	12539.4
67.5°	460.7	1532.4	10566.5	15347.5	18084.5	20785.0	20966.6	17819.6	13417.2	9607.5
70°	374.5	1036.2	7293.7	11224.2	14916.2	17952.6	17963.7	14803.5	10014.5	6295.1
72.5°	331.9	717.5	4233.9	8185.7	12094.9	14629.0	14333.6	12012.7	7696.6	3728.5
75°	287.2	476.0	2076.4	5004.2	7333.3	7383.0	7495.6	5572.5	3847.3	1772.9
77.5°	236.5	337.9	818.0	1367.0	2199.2	2815.2	2919.7	2212.4	1279.7	436.4
80°	162.4	160.3	220.2	419.1	629.2	788.5	735.8	569.3	334.9	167.4
82.5°	70.0	76.1	99.5	119.8	97.4	94.4	90.3	57.8	44.7	34.5
85°	22.3	20.3	21.3	21.3	17.3	13.2	13.2	6.1	0.0	0.0
87.5°	11.2	9.1	9.1	8.1	5.1	2.0	1.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1049949

CATALOG NUMBER: GALN-SA6A-930-U-LBC

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
58.9	0°	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
54.8	2.5°	53.8	53.8	51.8	49.7	48.7	46.7	45.7	44.7	43.6	42.6
58.9	5°	56.8	55.8	52.8	49.7	46.7	43.6	41.6	39.6	37.5	36.5
64.9	7.5°	61.9	59.9	53.8	48.7	44.7	40.6	38.6	35.5	33.5	30.4
72.1	10°	68.0	63.9	55.8	49.7	43.6	38.6	35.5	32.5	29.4	25.4
82.2	12.5°	76.1	69.0	58.9	48.7	41.6	35.5	32.5	28.4	25.4	22.3
95.4	15°	83.2	74.1	59.9	48.7	39.6	32.5	28.4	24.4	21.3	17.3
119.8	17.5°	93.4	78.1	58.9	45.7	36.5	28.4	24.4	21.3	16.2	10.1
177.6	20°	110.6	81.2	56.8	42.6	31.5	23.3	18.3	14.2	7.1	2.0
266.9	22.5°	138.0	89.3	54.8	38.6	27.4	18.3	12.2	5.1	0.0	0.0
405.9	25°	190.8	103.5	54.8	36.5	24.4	13.2	4.1	0.0	0.0	0.0
576.4	27.5°	253.7	122.8	54.8	31.5	19.3	7.1	0.0	0.0	0.0	0.0
785.5	30°	317.6	144.1	54.8	27.4	15.2	1.0	0.0	0.0	0.0	0.0
967.1	32.5°	378.5	162.4	55.8	23.3	10.1	0.0	0.0	0.0	0.0	0.0
1218.8	35°	440.4	165.4	54.8	20.3	6.1	0.0	0.0	0.0	0.0	0.0
1527.3	37.5°	519.6	159.3	51.8	18.3	3.0	0.0	0.0	0.0	0.0	0.0
2009.4	40°	639.4	162.4	48.7	17.3	1.0	0.0	0.0	0.0	0.0	0.0
2869.0	42.5°	860.6	175.6	44.7	17.3	0.0	0.0	0.0	0.0	0.0	0.0
4569.8	45°	1487.8	235.4	40.6	18.3	0.0	0.0	0.0	0.0	0.0	0.0
6860.3	47.5°	2461.0	423.2	39.6	18.3	0.0	0.0	0.0	0.0	0.0	0.0
8263.9	50°	3140.9	532.8	41.6	19.3	0.0	0.0	0.0	0.0	0.0	0.0
8439.4	52.5°	3135.9	593.7	43.6	20.3	4.1	0.0	0.0	0.0	0.0	0.0
7778.8	55°	2787.8	604.8	46.7	22.3	13.2	0.0	0.0	0.0	0.0	0.0
6684.8	57.5°	2330.1	552.1	53.8	27.4	24.4	0.0	0.0	0.0	0.0	0.0
6513.3	58°	2248.9	527.7	55.8	28.4	26.4	0.0	0.0	0.0	0.0	0.0
5649.6	60°	1843.0	430.3	71.0	35.5	35.5	0.0	0.0	0.0	0.0	0.0
4631.7	62.5°	1272.6	375.5	81.2	45.7	36.5	0.0	0.0	0.0	0.0	0.0
3414.9	65°	900.2	339.0	88.3	48.7	29.4	0.0	0.0	0.0	0.0	0.0
2426.5	67.5°	672.8	312.6	97.4	49.7	15.2	0.0	0.0	0.0	0.0	0.0
1522.3	70°	515.5	293.3	119.8	52.8	4.1	0.0	0.0	0.0	0.0	0.0
907.3	72.5°	420.1	271.0	145.1	54.8	0.0	0.0	0.0	0.0	0.0	0.0
544.0	75°	348.1	244.6	140.0	59.9	0.0	0.0	0.0	0.0	0.0	0.0
290.2	77.5°	231.4	189.8	127.9	59.9	0.0	0.0	0.0	0.0	0.0	0.0
103.5	80°	81.2	75.1	99.5	52.8	0.0	0.0	0.0	0.0	0.0	0.0
21.3	82.5°	12.2	10.1	14.2	18.3	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: P1049949

CATALOG NUMBER: GALN-SA6A-930-U-LBC

CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
58.9	0°	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
41.6	2.5°	41.6	41.6	40.6	41.6	41.6	43.6	48.7	55.8	63.9	67.0
35.5	5°	34.5	33.5	32.5	32.5	32.5	35.5	39.6	47.7	56.8	60.9
29.4	7.5°	28.4	27.4	26.4	25.4	25.4	27.4	32.5	41.6	50.7	54.8
24.4	10°	23.3	21.3	20.3	19.3	19.3	21.3	26.4	35.5	45.7	49.7
20.3	12.5°	19.3	16.2	14.2	13.2	12.2	15.2	20.3	28.4	39.6	44.7
15.2	15°	13.2	10.1	7.1	6.1	5.1	8.1	13.2	22.3	33.5	39.6
8.1	17.5°	7.1	3.0	1.0	0.0	0.0	2.0	6.1	16.2	27.4	32.5
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	20.3	25.4
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	12.2	17.3
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	9.1
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
0.0	30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	8.1
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: P1049949

CATALOG NUMBER: GALN-SA6A-930-U-LBC

CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
58.9	0°	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
70.0	2.5°	72.1	71.0	69.0	67.0	67.0	67.0	70.0	73.1	76.1	76.1
62.9	5°	67.0	67.0	66.0	63.9	63.9	64.9	69.0	74.1	78.1	79.2
57.8	7.5°	61.9	63.9	61.9	60.9	61.9	62.9	67.0	73.1	79.2	81.2
53.8	10°	58.9	59.9	59.9	58.9	58.9	60.9	64.9	73.1	81.2	84.2
48.7	12.5°	54.8	56.8	55.8	55.8	55.8	57.8	62.9	72.1	83.2	87.3
43.6	15°	50.7	53.8	53.8	52.8	52.8	53.8	60.9	71.0	86.3	93.4
37.5	17.5°	46.7	49.7	50.7	48.7	48.7	50.7	57.8	71.0	88.3	100.5
30.4	20°	38.6	43.6	46.7	43.6	43.6	45.7	52.8	67.0	89.3	107.6
22.3	22.5°	30.4	35.5	39.6	38.6	38.6	39.6	48.7	63.9	90.3	119.8
13.2	25°	22.3	27.4	30.4	32.5	32.5	35.5	44.7	61.9	94.4	145.1
6.1	27.5°	13.2	19.3	23.3	25.4	26.4	30.4	41.6	59.9	101.5	181.7
0.0	30°	6.1	11.2	16.2	20.3	20.3	27.4	38.6	57.8	110.6	234.4
0.0	32.5°	0.0	5.1	8.1	14.2	15.2	22.3	35.5	55.8	123.8	285.2
0.0	35°	0.0	0.0	4.1	11.2	11.2	18.3	32.5	53.8	144.1	323.7
0.0	37.5°	0.0	0.0	0.0	8.1	9.1	16.2	31.5	52.8	148.2	326.8
0.0	40°	0.0	0.0	0.0	6.1	7.1	15.2	31.5	53.8	134.0	319.7
0.0	42.5°	0.0	0.0	0.0	4.1	5.1	15.2	31.5	55.8	120.8	327.8
0.0	45°	0.0	0.0	0.0	3.0	4.1	16.2	30.4	54.8	113.7	370.4
0.0	47.5°	0.0	0.0	0.0	4.1	6.1	16.2	29.4	53.8	114.7	511.5
0.0	50°	0.0	0.0	0.0	5.1	7.1	16.2	30.4	51.8	125.8	786.5
0.0	52.5°	0.0	0.0	0.0	4.1	6.1	18.3	33.5	50.7	137.0	1023.0
0.0	55°	0.0	0.0	0.0	1.0	3.0	23.3	36.5	50.7	154.3	1081.8
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	26.4	41.6	53.8	182.7	1058.5
0.0	58°	0.0	0.0	0.0	0.0	0.0	26.4	42.6	53.8	184.7	1038.2
0.0	60°	0.0	0.0	0.0	0.0	0.0	26.4	46.7	59.9	198.9	924.5
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	22.3	55.8	75.1	207.0	726.6
0.0	65°	0.0	0.0	0.0	0.0	0.0	18.3	66.0	82.2	213.1	578.5
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	17.3	68.0	83.2	216.2	460.7
0.0	70°	0.0	0.0	0.0	0.0	0.0	18.3	67.0	89.3	226.3	374.5
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	20.3	60.9	98.4	226.3	331.9
0.0	75°	0.0	0.0	0.0	0.0	0.0	21.3	56.8	110.6	206.0	287.2
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	20.3	55.8	128.9	183.7	236.5
0.0	80°	2.0	3.0	3.0	2.0	2.0	17.3	54.8	130.9	156.3	162.4
1.0	82.5°	6.1	8.1	7.1	5.1	5.1	15.2	48.7	109.6	81.2	70.0
6.1	85°	11.2	13.2	13.2	11.2	11.2	14.2	30.4	39.6	27.4	22.3
11.2	87.5°	15.2	17.3	17.3	15.2	15.2	14.2	13.2	12.2	11.2	11.2
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: SP1-2407-184-14

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

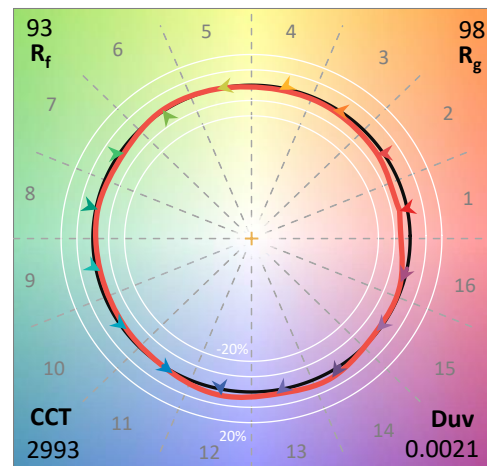
Test Information

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

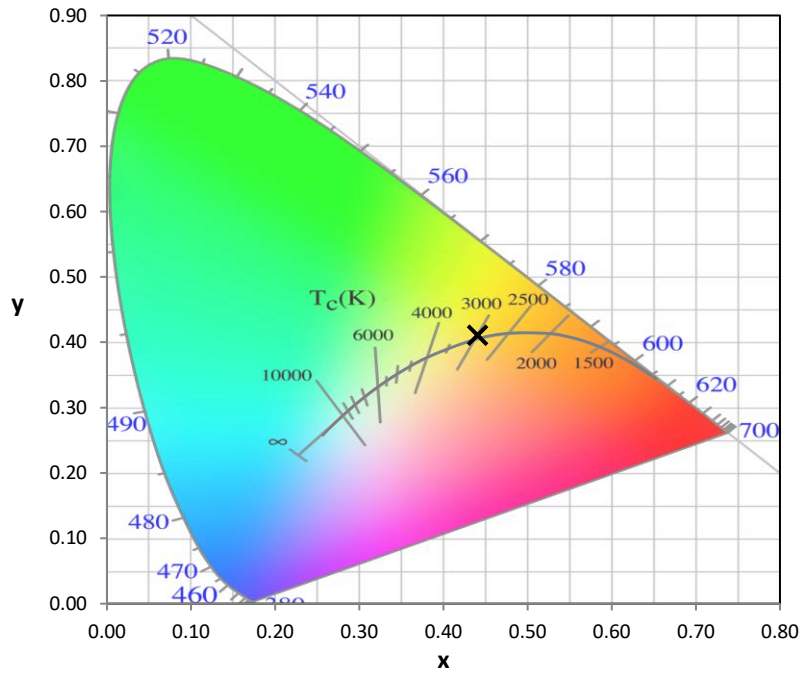
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-14

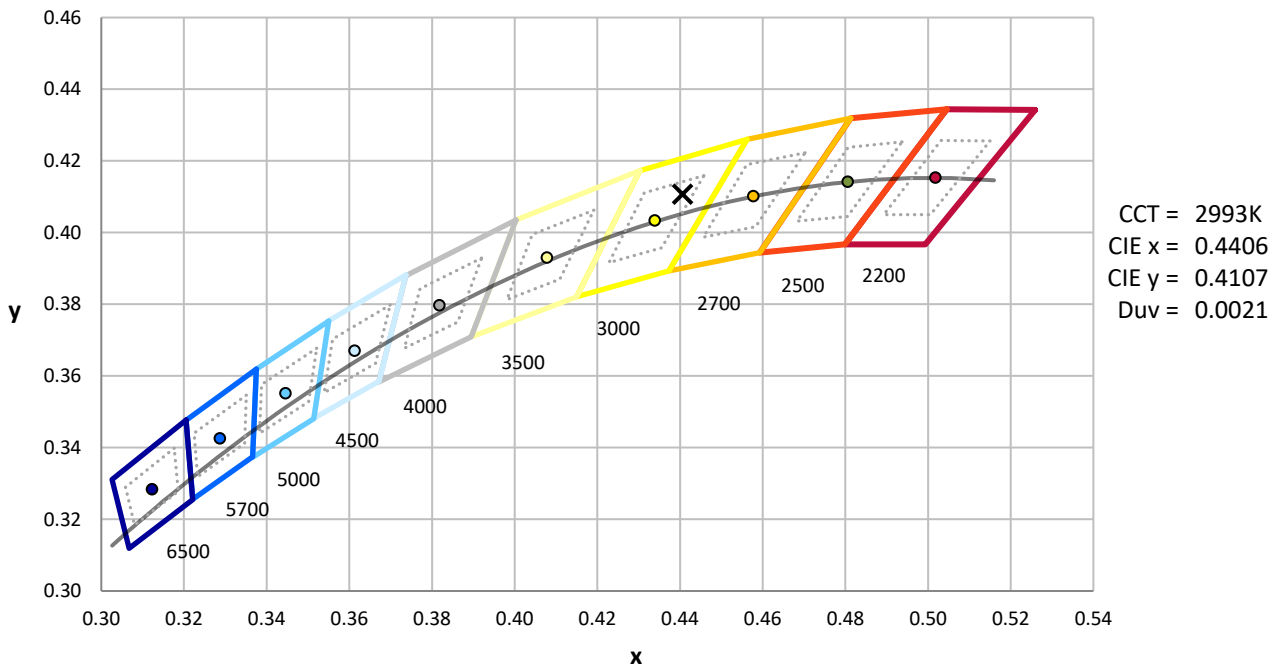
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



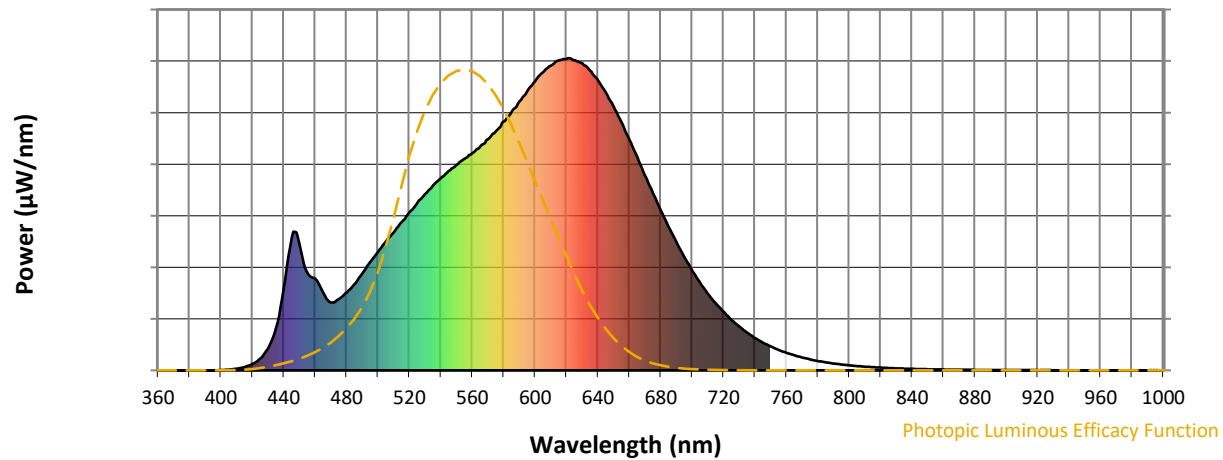
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-14

Photopic Flux vs. Wavelength

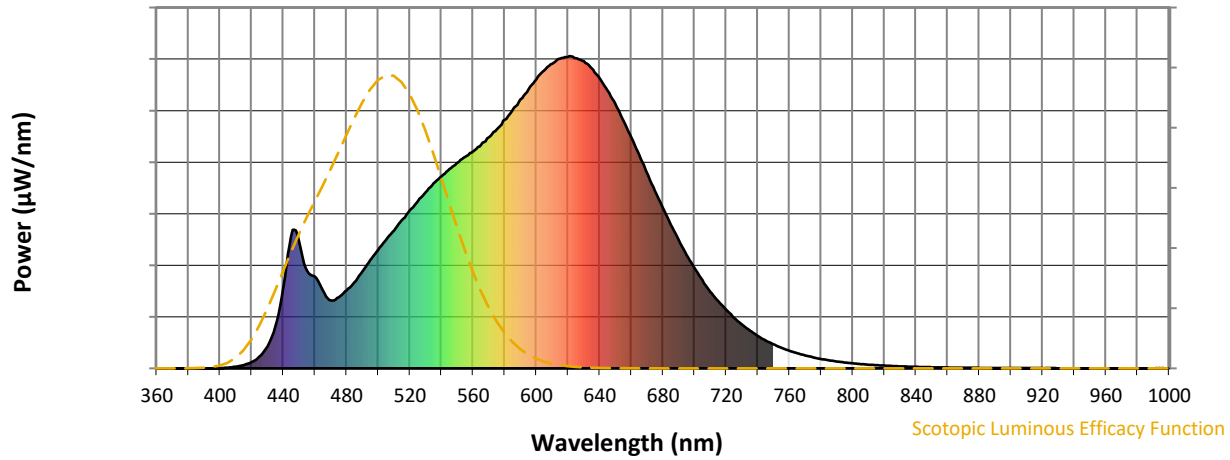


Photopic Lumens: NR

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	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

Scotopic Flux vs. Wavelength



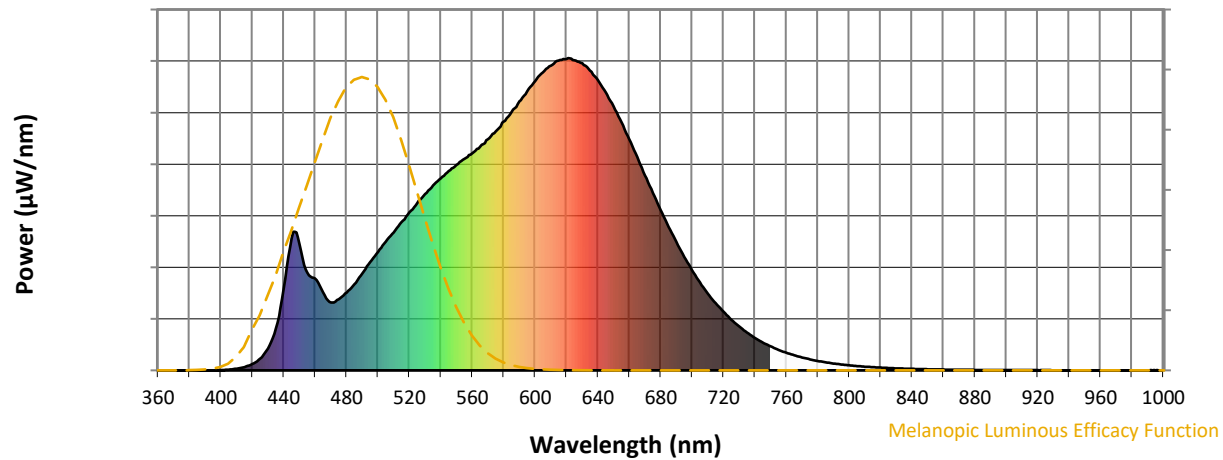
Scotopic Lumens: NR

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

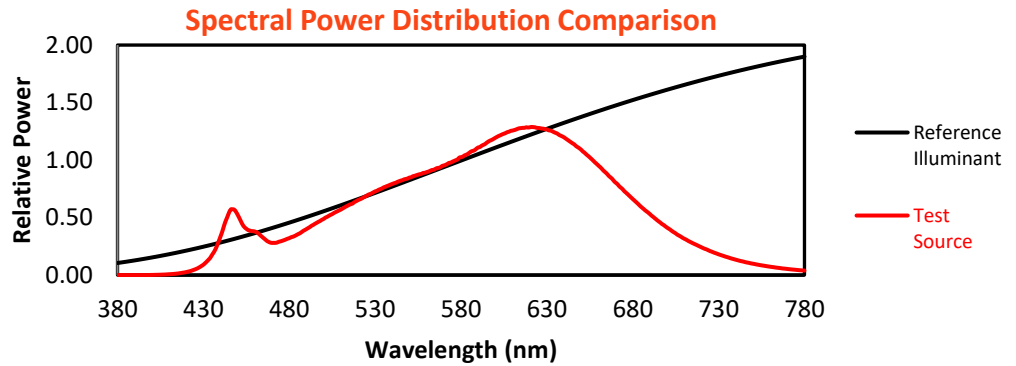
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	310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

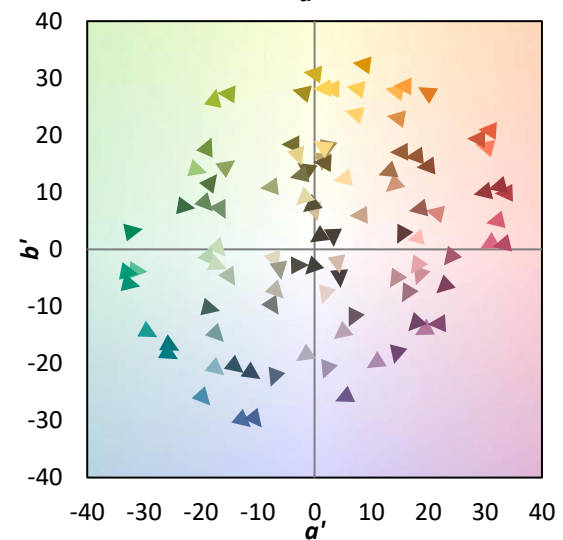
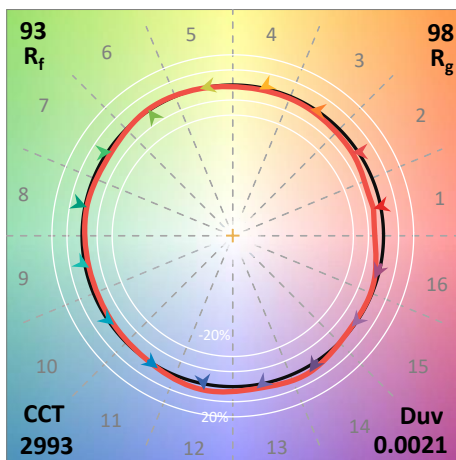
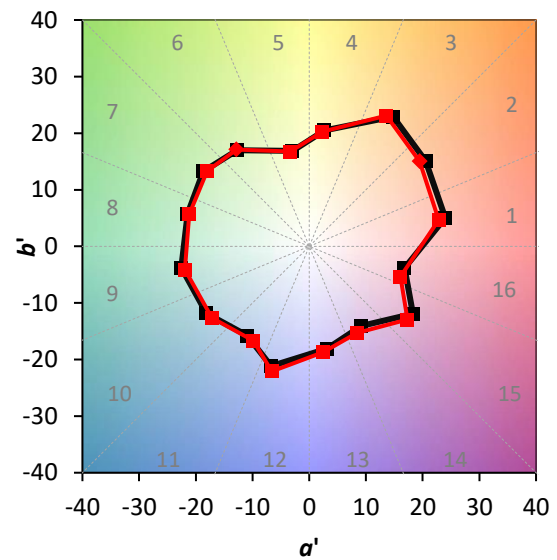
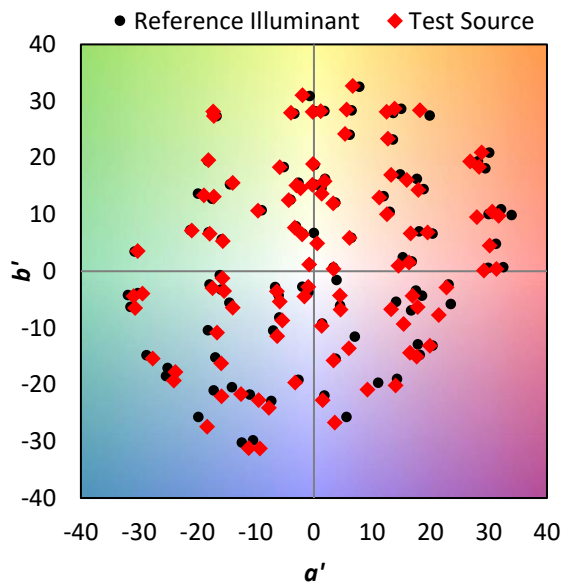
TM-30-18

Summary

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

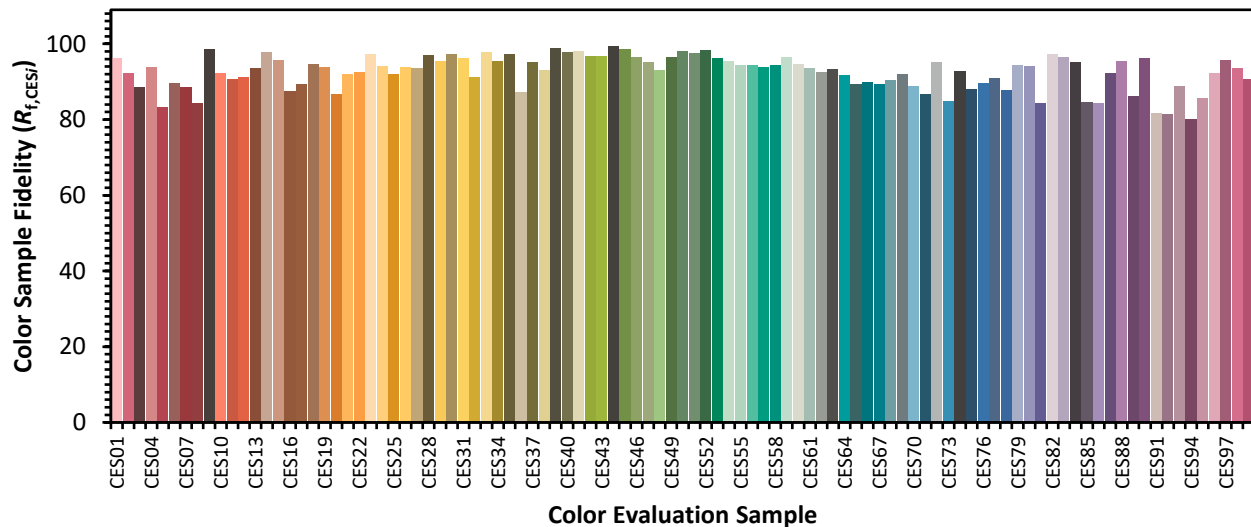


Color Vector Graphics

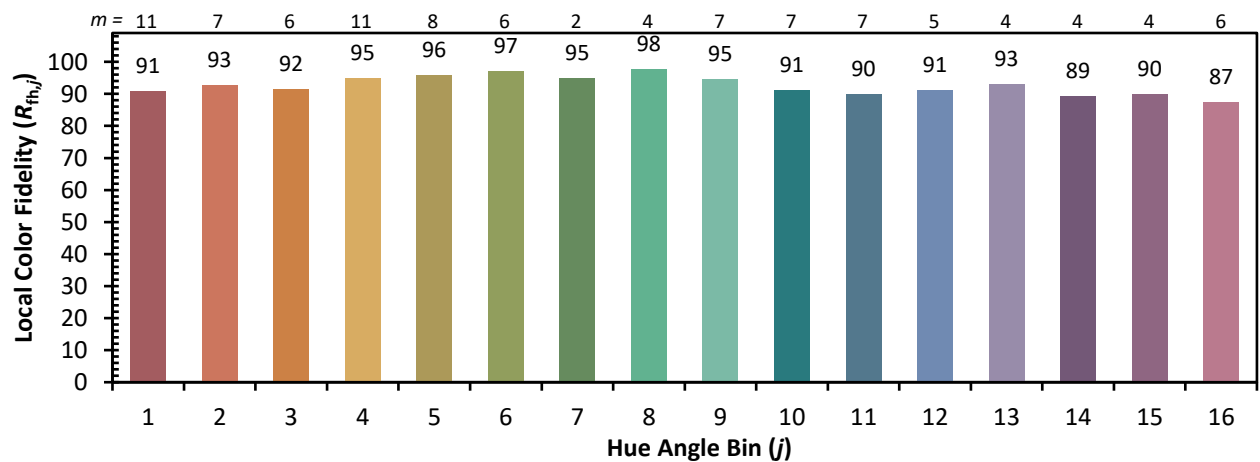
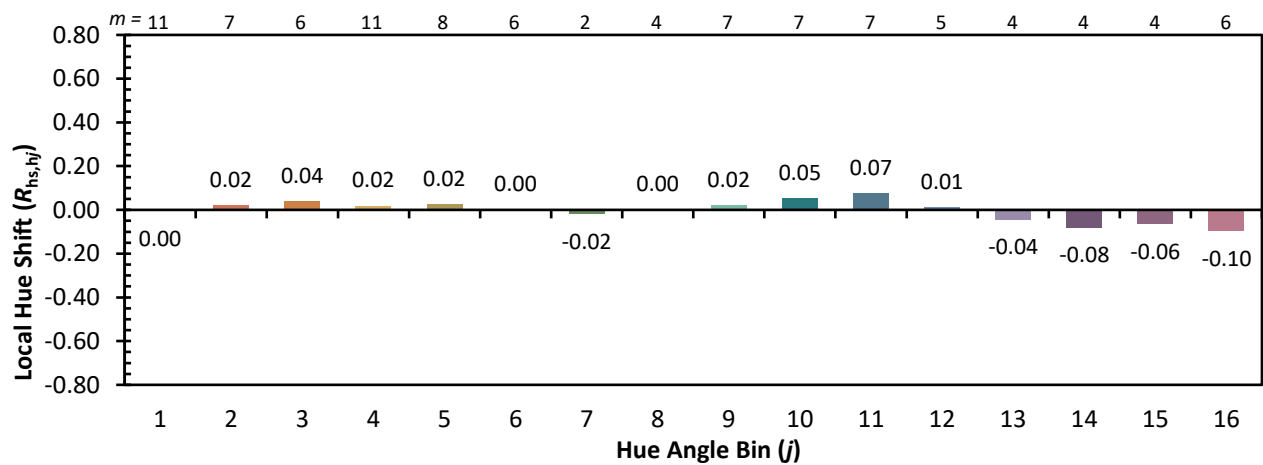
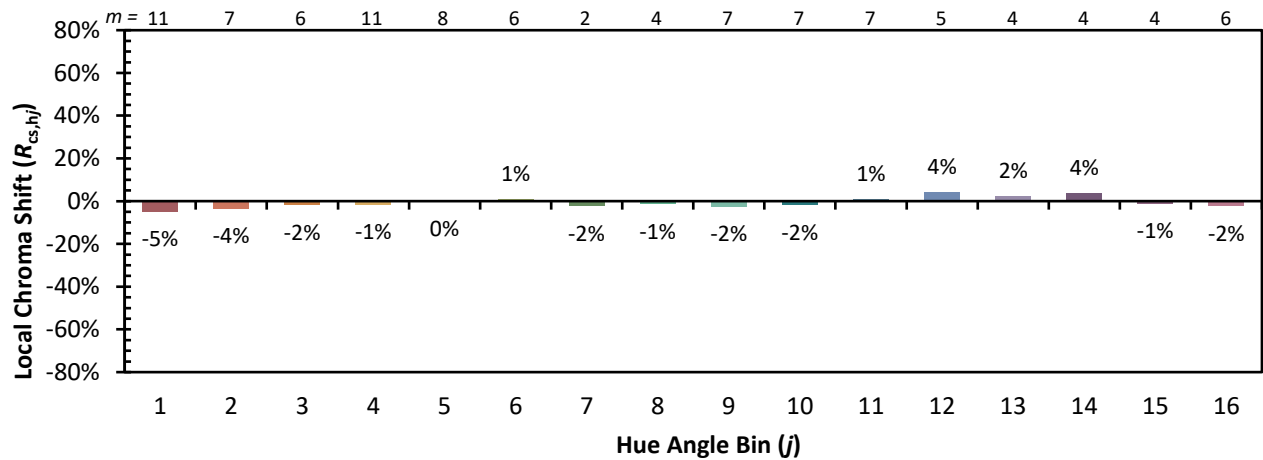


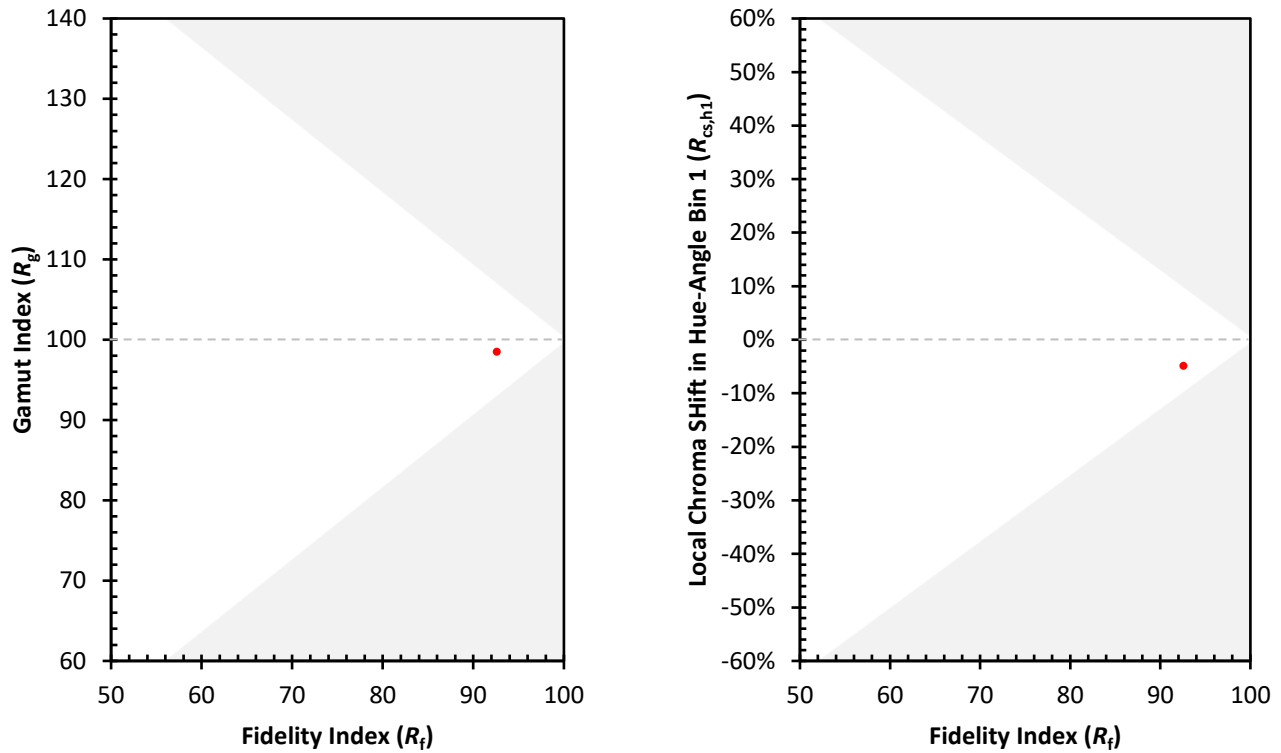
Individual Sample Fidelity Index ($R_{f,i}$)

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)