

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: P1049957

Luminaire Tested: **GALN-SA8A-930-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049957
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-930-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 8xLight Square PACKAGE
90CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (112) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18013.3 lumens
Efficiency: N/A
Efficacy: 82.8 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

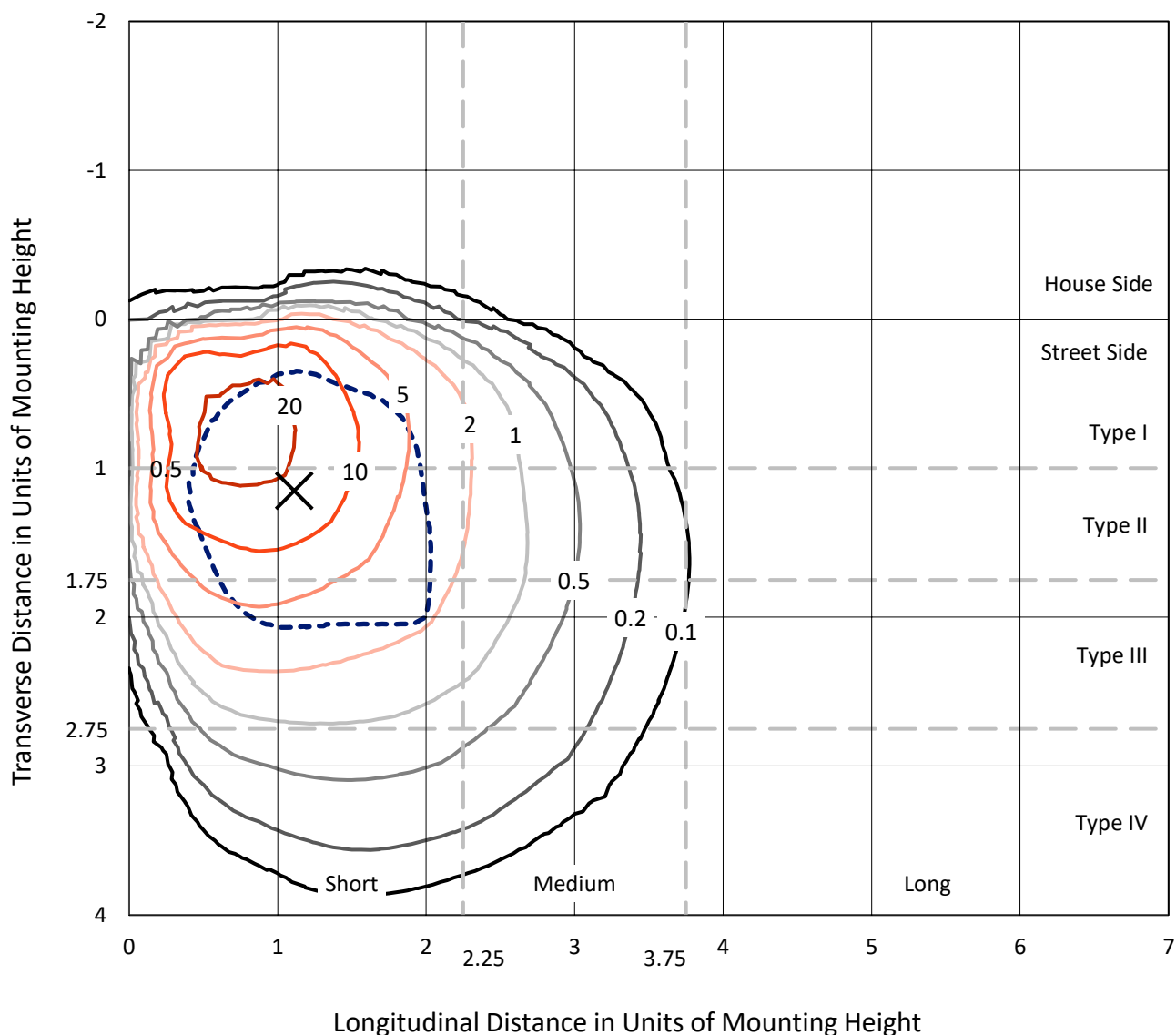
REPORT NUMBER: P1049957

CATALOG NUMBER: GALN-SA8A-930-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

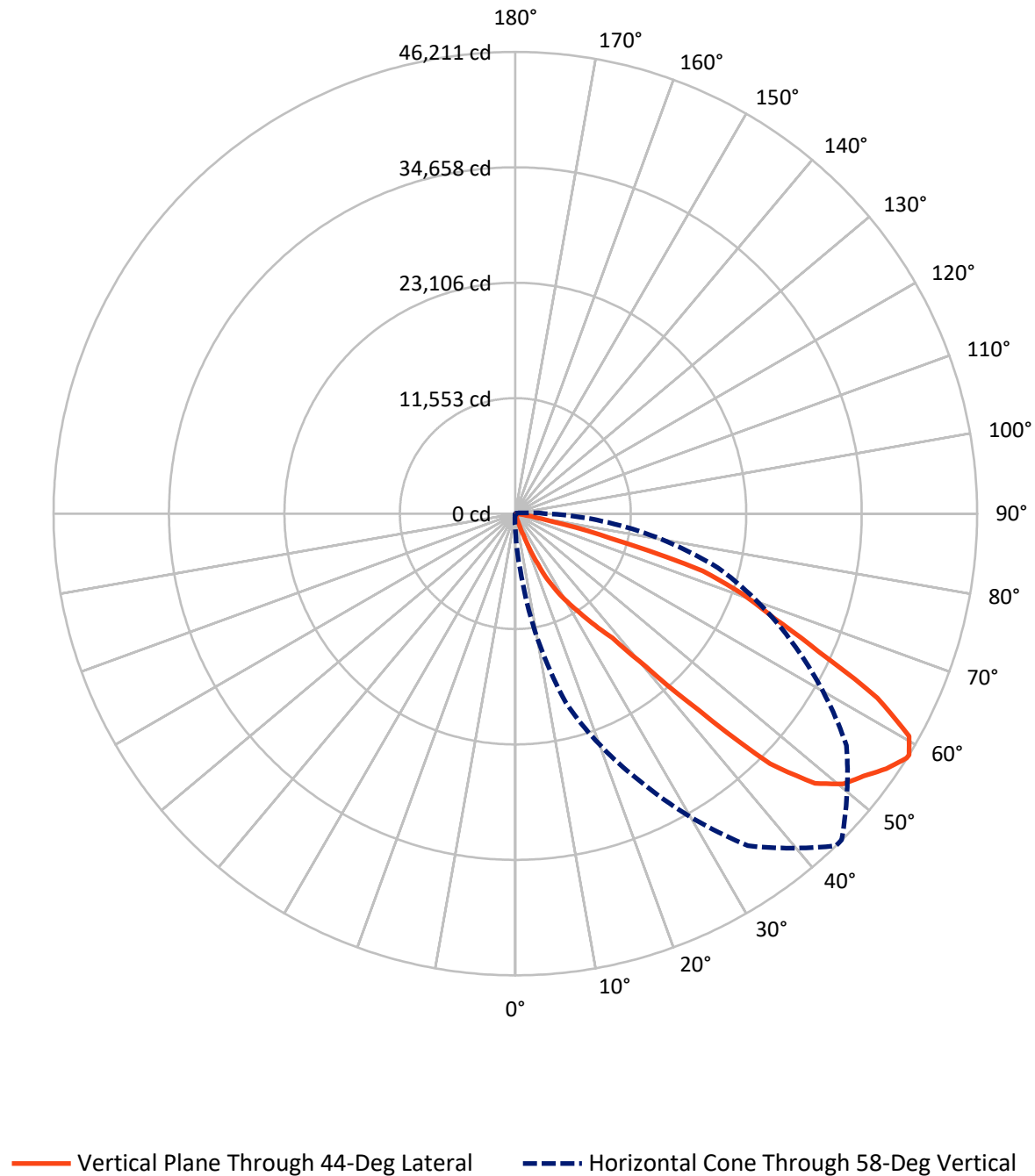
--- 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 31.4 fc
 Type III - Short - N/A

REPORT NUMBER: P1049957
CATALOG NUMBER: GALN-SA8A-930-U-LBC

Luminous Intensity Polar Plot



REPORT NUMBER: P1049957

CATALOG NUMBER: GALN-SA8A-930-U-LBC

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	123.0	0.0	123.0
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	17890.3	0.0	17890.3
	% Fixture	99.3	0.0	99.3
Total	Lumens	18013.3	0.0	18013.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.0	0.0
10°-20°	39.5	0.2
20°-30°	426.7	2.4
30°-40°	1262.0	7.0
40°-50°	3761.5	20.9
50°-60°	5968.5	33.1
60°-70°	4978.5	27.6
70°-80°	1535.4	8.5
80°-90°	34.1	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°	18013.3	100.0
0°-180°	18013.3	100.0

Coefficient of Utilization



REPORT NUMBER: P1049957

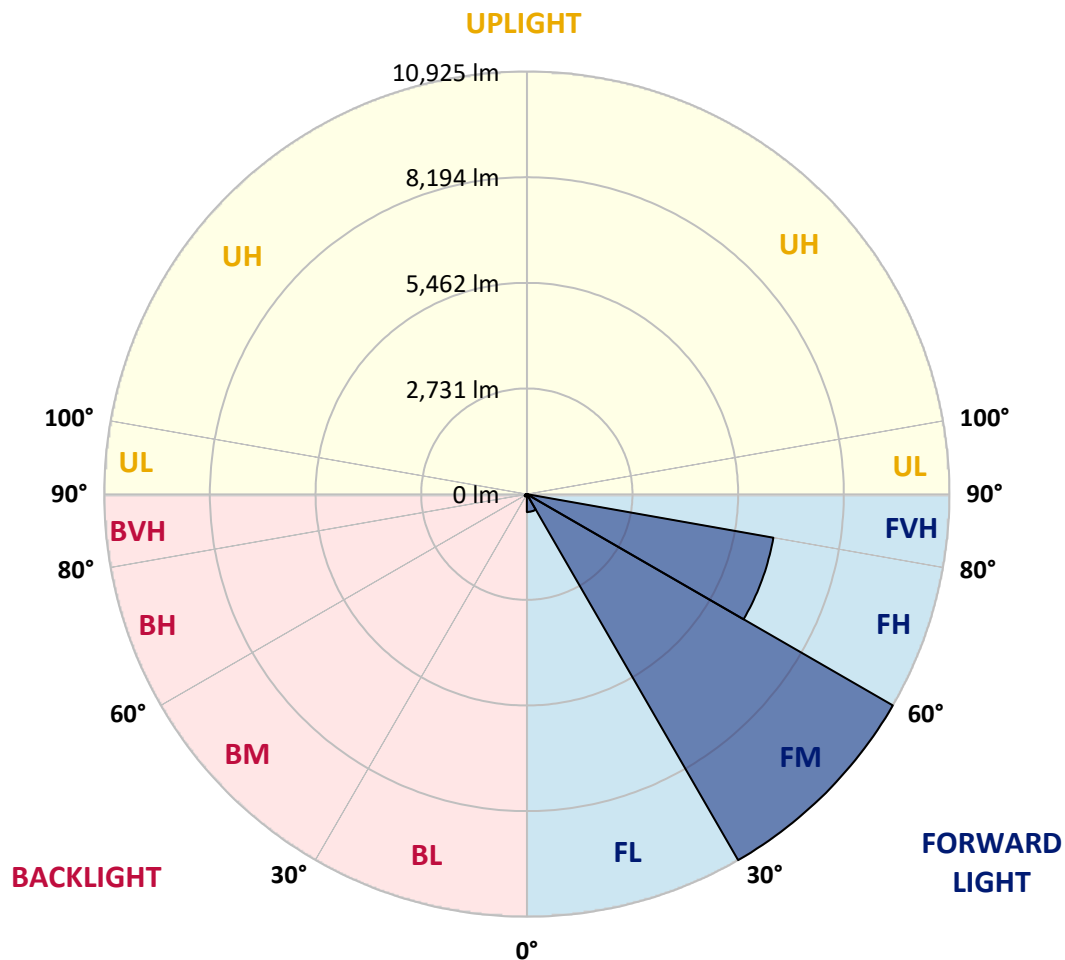
CATALOG NUMBER: GALN-SA8A-930-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	461.2	2.6			
FM	(30°-60°)	10924.7	60.6			
FH	(60°-80°)	6471.9	35.9			G3/7500
FVH	(80°-90°)	32.5	0.2			G1/100
BL	(0°-30°)	12.0	0.1	B0/110		
BM	(30°-60°)	67.3	0.4	B0/220		
BH	(60°-80°)	42.0	0.2	B0/110		G0/110
BVH	(80°-90°)	1.7	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



REPORT NUMBER: P1049957

CATALOG NUMBER: GALN-SA8A-930-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
2.5°	102.1	102.1	98.0	92.5	87.1	81.6	80.3	77.6	76.2	74.8
5°	106.1	106.1	104.8	100.7	95.3	91.2	91.2	87.1	84.4	81.6
7.5°	108.9	110.2	112.9	111.6	108.9	104.8	104.8	102.1	98.0	91.2
10°	112.9	117.0	122.5	125.2	126.6	126.6	125.2	123.8	117.0	107.5
12.5°	117.0	125.2	138.8	152.4	160.6	171.5	170.1	167.4	149.7	129.3
15°	125.2	137.4	166.0	205.5	266.7	304.8	319.8	306.2	247.7	174.2
17.5°	134.7	155.1	240.9	430.0	704.9	835.5	914.4	850.5	563.4	330.7
20°	144.2	189.1	447.7	1114.5	1828.9	2256.1	2374.5	2189.5	1405.7	630.0
22.5°	160.6	265.3	907.6	2303.8	3940.7	4581.7	4702.8	4110.8	2654.8	1243.7
25°	194.6	385.1	1564.9	3754.3	5881.2	6963.0	6912.6	6137.0	4306.8	1986.7
27.5°	243.6	560.6	2366.4	5334.2	7740.0	8693.9	8808.2	7848.8	5741.0	2921.5
30°	314.3	777.0	3226.3	6599.7	9230.0	10261.4	10280.5	9288.5	7024.2	3742.1
32.5°	382.4	981.1	3978.8	7823.0	10698.2	11829.0	11913.4	10692.8	7982.2	4596.6
35°	434.1	1114.5	4740.9	8898.0	12178.7	13736.8	13731.4	12282.2	9117.1	5360.0
37.5°	438.2	1247.8	5430.8	9997.5	14053.9	15798.4	15971.2	14373.6	10488.7	6304.4
40°	428.6	1397.5	6304.4	11712.0	17432.6	20109.2	20261.6	18247.7	13240.1	7920.9
42.5°	439.5	1657.4	7722.3	14878.5	23043.0	26887.1	27181.1	25063.7	18298.1	11219.4
45°	496.7	2145.9	10692.8	20175.9	31040.2	35726.6	35628.6	32579.2	24183.3	16240.6
47.5°	685.8	3342.0	15096.2	25331.8	36151.1	40324.6	40408.9	36681.8	27617.9	20101.1
50°	1054.6	5113.7	18796.1	28057.4	38348.8	42535.8	42456.9	38150.1	28922.8	22002.0
52.5°	1371.6	6395.5	20652.2	29014.0	38630.4	43628.5	43623.0	38536.5	29125.6	22165.3
55°	1450.6	6492.2	20667.1	29065.7	39261.8	45058.6	45238.3	39487.7	29388.2	21452.3
57.5°	1419.3	5747.8	19804.4	29365.1	40385.8	46164.9	46174.5	40408.9	30055.0	21015.5
58°	1392.1	5630.8	19630.2	29535.2	40579.0	46211.2	46188.1	40451.1	30597.9	20999.2
60°	1239.6	4889.2	18951.2	29969.2	40291.9	45261.4	45045.0	39529.9	30517.6	20831.8
62.5°	974.3	3814.2	18283.1	29467.1	37213.9	40663.4	40753.2	34997.2	27820.6	19856.1
65°	775.6	2842.6	16889.7	25847.5	30644.2	33392.9	33727.6	28458.8	23221.3	16813.5
67.5°	617.8	2054.7	14168.2	20578.7	24248.6	27869.6	28113.2	23893.5	17990.5	12882.3
70°	502.1	1389.3	9779.7	15049.9	20000.4	24071.7	24086.7	19849.3	13427.9	8440.8
72.5°	445.0	962.1	5677.1	10975.8	16217.5	19615.3	19219.3	16107.2	10320.0	4999.4
75°	385.1	638.2	2784.1	6709.9	9832.8	9899.5	10050.5	7471.9	5158.6	2377.2
77.5°	317.1	453.1	1096.8	1832.9	2948.8	3774.7	3914.9	2966.4	1715.9	585.1
80°	217.7	215.0	295.3	562.0	843.7	1057.3	986.5	763.4	449.0	224.5
82.5°	93.9	102.1	133.4	160.6	130.6	126.6	121.1	77.6	59.9	46.3
85°	29.9	27.2	28.6	28.6	23.1	17.7	17.7	8.2	0.0	0.0
87.5°	15.0	12.2	12.2	10.9	6.8	2.7	1.4	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: P1049957

CATALOG NUMBER: GALN-SA8A-930-U-LBC

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
78.9	0°	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
73.5	2.5°	72.1	72.1	69.4	66.7	65.3	62.6	61.2	59.9	58.5	57.2
78.9	5°	76.2	74.8	70.8	66.7	62.6	58.5	55.8	53.1	50.3	49.0
87.1	7.5°	83.0	80.3	72.1	65.3	59.9	54.4	51.7	47.6	44.9	40.8
96.6	10°	91.2	85.7	74.8	66.7	58.5	51.7	47.6	43.5	39.5	34.0
110.2	12.5°	102.1	92.5	78.9	65.3	55.8	47.6	43.5	38.1	34.0	29.9
127.9	15°	111.6	99.3	80.3	65.3	53.1	43.5	38.1	32.7	28.6	23.1
160.6	17.5°	125.2	104.8	78.9	61.2	49.0	38.1	32.7	28.6	21.8	13.6
238.1	20°	148.3	108.9	76.2	57.2	42.2	31.3	24.5	19.1	9.5	2.7
357.9	22.5°	185.1	119.7	73.5	51.7	36.7	24.5	16.3	6.8	0.0	0.0
544.3	25°	255.8	138.8	73.5	49.0	32.7	17.7	5.4	0.0	0.0	0.0
772.9	27.5°	340.2	164.7	73.5	42.2	25.9	9.5	0.0	0.0	0.0	0.0
1053.2	30°	425.9	193.2	73.5	36.7	20.4	1.4	0.0	0.0	0.0	0.0
1296.8	32.5°	507.6	217.7	74.8	31.3	13.6	0.0	0.0	0.0	0.0	0.0
1634.3	35°	590.6	221.8	73.5	27.2	8.2	0.0	0.0	0.0	0.0	0.0
2047.9	37.5°	696.7	213.6	69.4	24.5	4.1	0.0	0.0	0.0	0.0	0.0
2694.3	40°	857.3	217.7	65.3	23.1	1.4	0.0	0.0	0.0	0.0	0.0
3846.9	42.5°	1153.9	235.4	59.9	23.1	0.0	0.0	0.0	0.0	0.0	0.0
6127.5	45°	1994.9	315.7	54.4	24.5	0.0	0.0	0.0	0.0	0.0	0.0
9198.7	47.5°	3299.8	567.4	53.1	24.5	0.0	0.0	0.0	0.0	0.0	0.0
11080.6	50°	4211.5	714.4	55.8	25.9	0.0	0.0	0.0	0.0	0.0	0.0
11316.0	52.5°	4204.7	796.0	58.5	27.2	5.4	0.0	0.0	0.0	0.0	0.0
10430.2	55°	3738.0	811.0	62.6	29.9	17.7	0.0	0.0	0.0	0.0	0.0
8963.3	57.5°	3124.3	740.3	72.1	36.7	32.7	0.0	0.0	0.0	0.0	0.0
8733.3	58°	3015.4	707.6	74.8	38.1	35.4	0.0	0.0	0.0	0.0	0.0
7575.3	60°	2471.1	577.0	95.3	47.6	47.6	0.0	0.0	0.0	0.0	0.0
6210.5	62.5°	1706.4	503.5	108.9	61.2	49.0	0.0	0.0	0.0	0.0	0.0
4578.9	65°	1207.0	454.5	118.4	65.3	39.5	0.0	0.0	0.0	0.0	0.0
3253.6	67.5°	902.2	419.1	130.6	66.7	20.4	0.0	0.0	0.0	0.0	0.0
2041.1	70°	691.3	393.3	160.6	70.8	5.4	0.0	0.0	0.0	0.0	0.0
1216.5	72.5°	563.4	363.3	194.6	73.5	0.0	0.0	0.0	0.0	0.0	0.0
729.4	75°	466.7	327.9	187.8	80.3	0.0	0.0	0.0	0.0	0.0	0.0
389.2	77.5°	310.3	254.5	171.5	80.3	0.0	0.0	0.0	0.0	0.0	0.0
138.8	80°	108.9	100.7	133.4	70.8	0.0	0.0	0.0	0.0	0.0	0.0
28.6	82.5°	16.3	13.6	19.1	24.5	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

REPORT NUMBER: P1049957

CATALOG NUMBER: GALN-SA8A-930-U-LBC

CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
78.9	0°	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
55.8	2.5°	55.8	55.8	54.4	55.8	55.8	58.5	65.3	74.8	85.7	89.8
47.6	5°	46.3	44.9	43.5	43.5	43.5	47.6	53.1	64.0	76.2	81.6
39.5	7.5°	38.1	36.7	35.4	34.0	34.0	36.7	43.5	55.8	68.0	73.5
32.7	10°	31.3	28.6	27.2	25.9	25.9	28.6	35.4	47.6	61.2	66.7
27.2	12.5°	25.9	21.8	19.1	17.7	16.3	20.4	27.2	38.1	53.1	59.9
20.4	15°	17.7	13.6	9.5	8.2	6.8	10.9	17.7	29.9	44.9	53.1
10.9	17.5°	9.5	4.1	1.4	0.0	0.0	2.7	8.2	21.8	36.7	43.5
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9	27.2	34.0
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	16.3	23.1
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	12.2
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
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	4.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	10.9
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: P1049957

CATALOG NUMBER: GALN-SA8A-930-U-LBC

CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
78.9	0°	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
93.9	2.5°	96.6	95.3	92.5	89.8	89.8	89.8	93.9	98.0	102.1	102.1
84.4	5°	89.8	89.8	88.4	85.7	85.7	87.1	92.5	99.3	104.8	106.1
77.6	7.5°	83.0	85.7	83.0	81.6	83.0	84.4	89.8	98.0	106.1	108.9
72.1	10°	78.9	80.3	80.3	78.9	78.9	81.6	87.1	98.0	108.9	112.9
65.3	12.5°	73.5	76.2	74.8	74.8	74.8	77.6	84.4	96.6	111.6	117.0
58.5	15°	68.0	72.1	72.1	70.8	70.8	72.1	81.6	95.3	115.7	125.2
50.3	17.5°	62.6	66.7	68.0	65.3	65.3	68.0	77.6	95.3	118.4	134.7
40.8	20°	51.7	58.5	62.6	58.5	58.5	61.2	70.8	89.8	119.7	144.2
29.9	22.5°	40.8	47.6	53.1	51.7	51.7	53.1	65.3	85.7	121.1	160.6
17.7	25°	29.9	36.7	40.8	43.5	43.5	47.6	59.9	83.0	126.6	194.6
8.2	27.5°	17.7	25.9	31.3	34.0	35.4	40.8	55.8	80.3	136.1	243.6
0.0	30°	8.2	15.0	21.8	27.2	27.2	36.7	51.7	77.6	148.3	314.3
0.0	32.5°	0.0	6.8	10.9	19.1	20.4	29.9	47.6	74.8	166.0	382.4
0.0	35°	0.0	0.0	5.4	15.0	15.0	24.5	43.5	72.1	193.2	434.1
0.0	37.5°	0.0	0.0	0.0	10.9	12.2	21.8	42.2	70.8	198.7	438.2
0.0	40°	0.0	0.0	0.0	8.2	9.5	20.4	42.2	72.1	179.6	428.6
0.0	42.5°	0.0	0.0	0.0	5.4	6.8	20.4	42.2	74.8	161.9	439.5
0.0	45°	0.0	0.0	0.0	4.1	5.4	21.8	40.8	73.5	152.4	496.7
0.0	47.5°	0.0	0.0	0.0	5.4	8.2	21.8	39.5	72.1	153.8	685.8
0.0	50°	0.0	0.0	0.0	6.8	9.5	21.8	40.8	69.4	168.7	1054.6
0.0	52.5°	0.0	0.0	0.0	5.4	8.2	24.5	44.9	68.0	183.7	1371.6
0.0	55°	0.0	0.0	0.0	1.4	4.1	31.3	49.0	68.0	206.8	1450.6
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	35.4	55.8	72.1	244.9	1419.3
0.0	58°	0.0	0.0	0.0	0.0	0.0	35.4	57.2	72.1	247.7	1392.1
0.0	60°	0.0	0.0	0.0	0.0	0.0	35.4	62.6	80.3	266.7	1239.6
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	29.9	74.8	100.7	277.6	974.3
0.0	65°	0.0	0.0	0.0	0.0	0.0	24.5	88.4	110.2	285.8	775.6
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	23.1	91.2	111.6	289.8	617.8
0.0	70°	0.0	0.0	0.0	0.0	0.0	24.5	89.8	119.7	303.4	502.1
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	27.2	81.6	132.0	303.4	445.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	28.6	76.2	148.3	276.2	385.1
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	27.2	74.8	172.8	246.3	317.1
0.0	80°	2.7	4.1	4.1	2.7	2.7	23.1	73.5	175.5	209.6	217.7
1.4	82.5°	8.2	10.9	9.5	6.8	6.8	20.4	65.3	147.0	108.9	93.9
8.2	85°	15.0	17.7	17.7	15.0	15.0	19.1	40.8	53.1	36.7	29.9
15.0	87.5°	20.4	23.1	23.1	20.4	20.4	19.1	17.7	16.3	15.0	15.0
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



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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

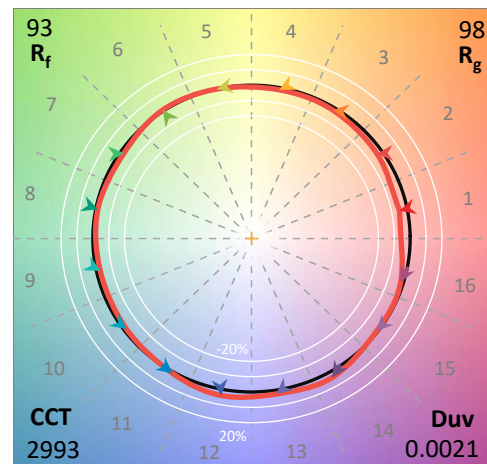
Test Information

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

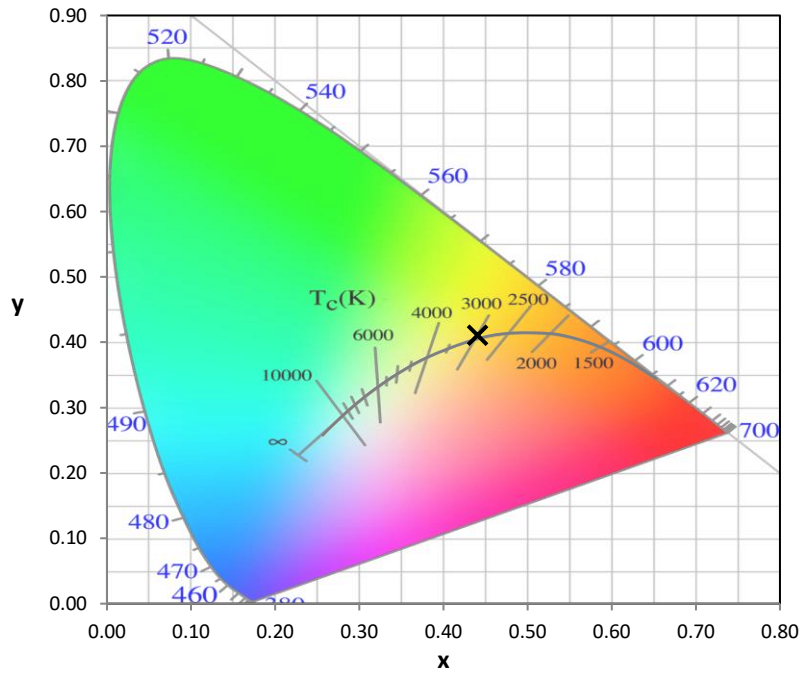
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-14

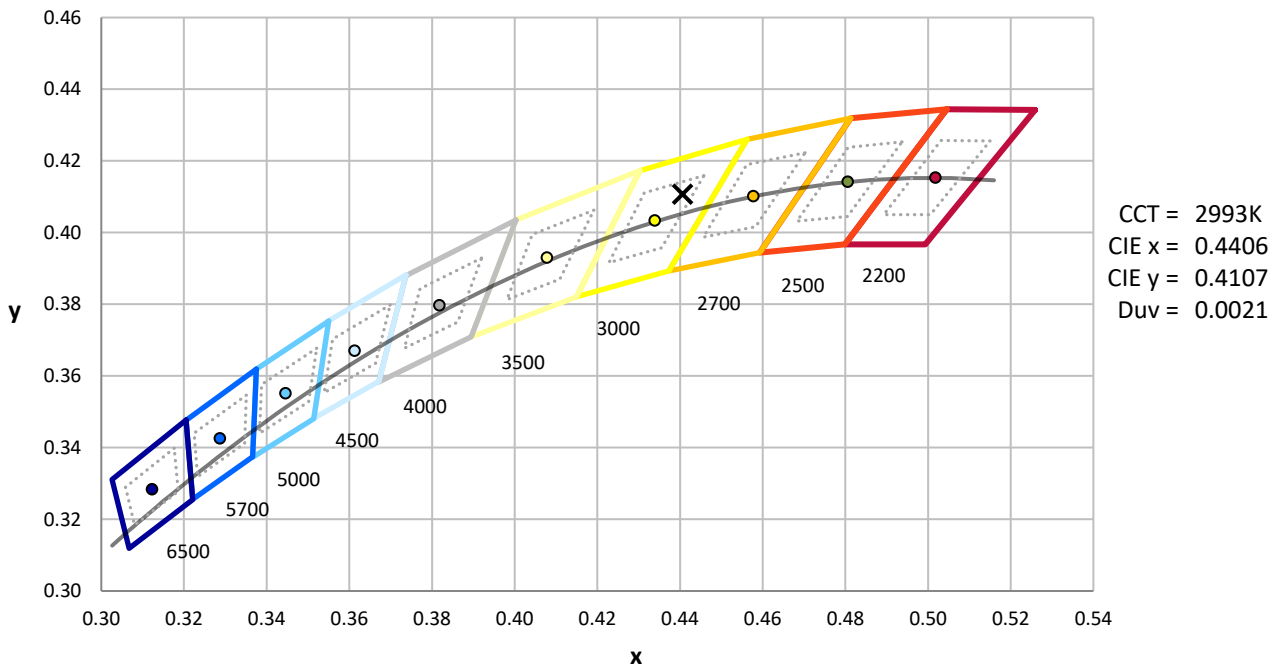
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



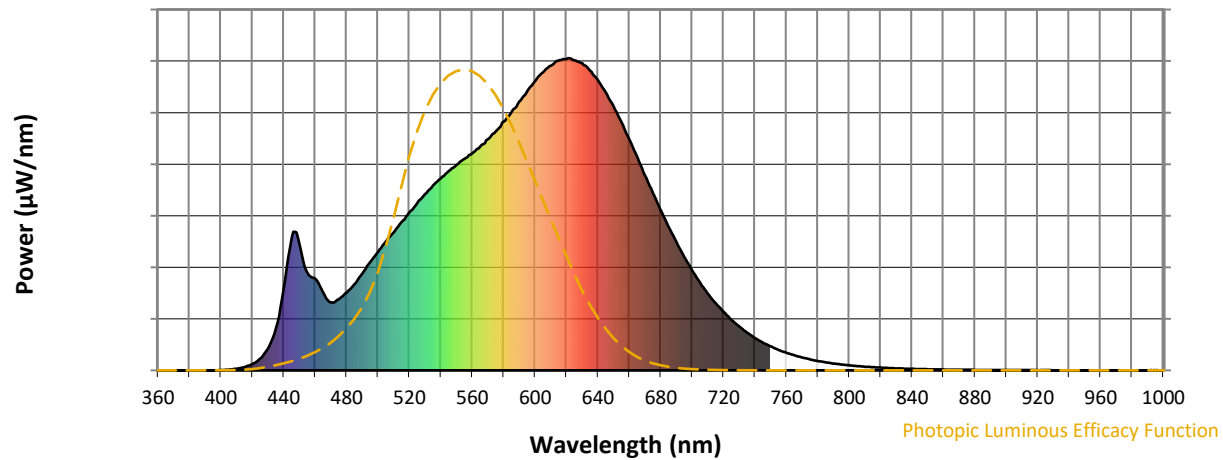
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-14

Photopic Flux vs. Wavelength

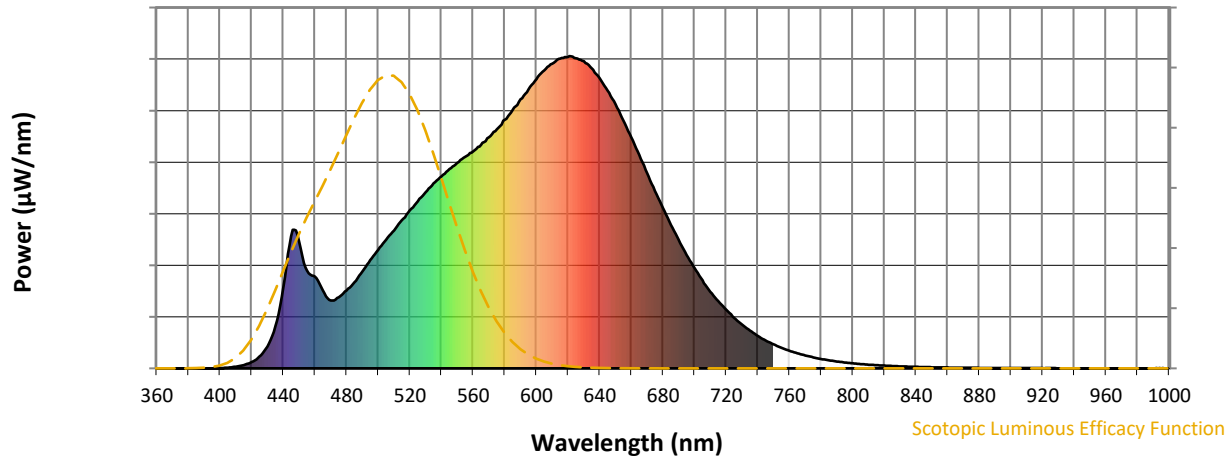


Photopic Lumens: NR

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



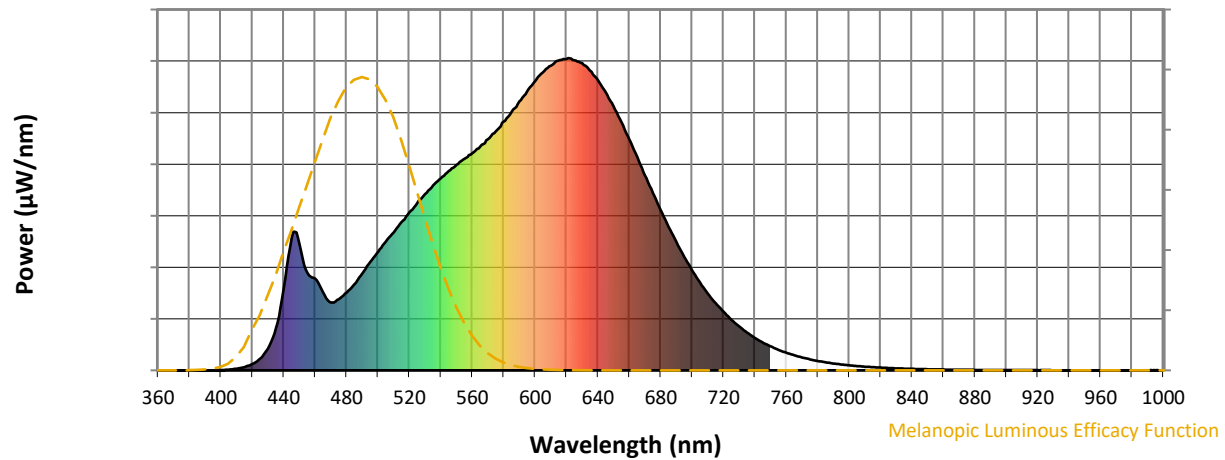
Scotopic Lumens: NR

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

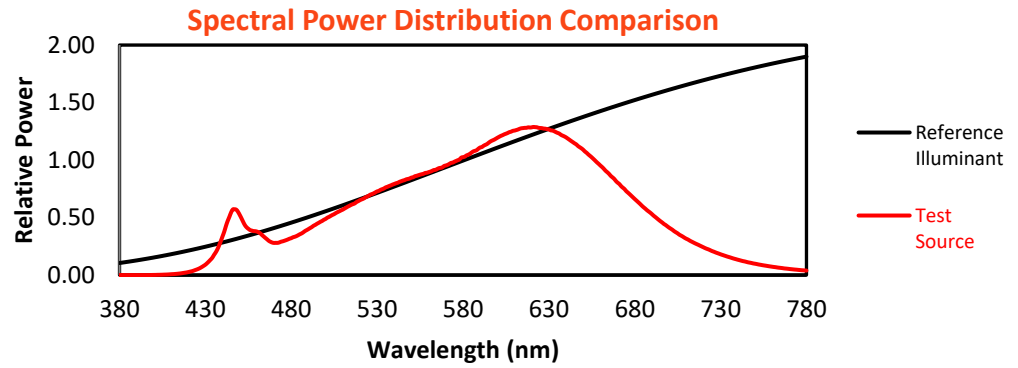
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	310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

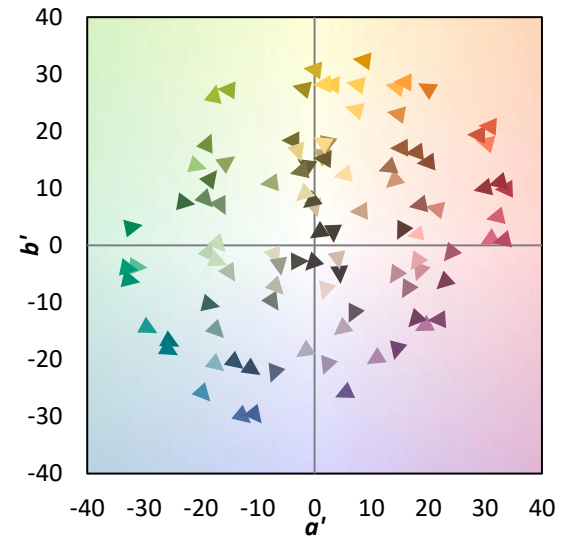
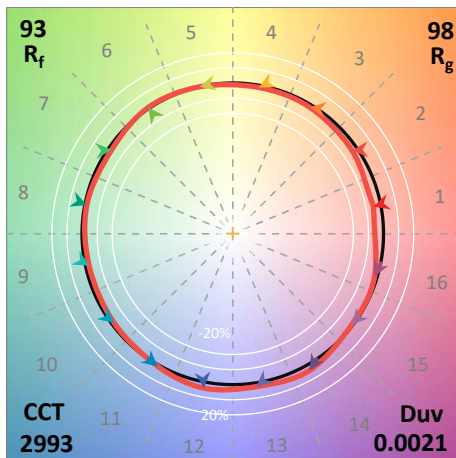
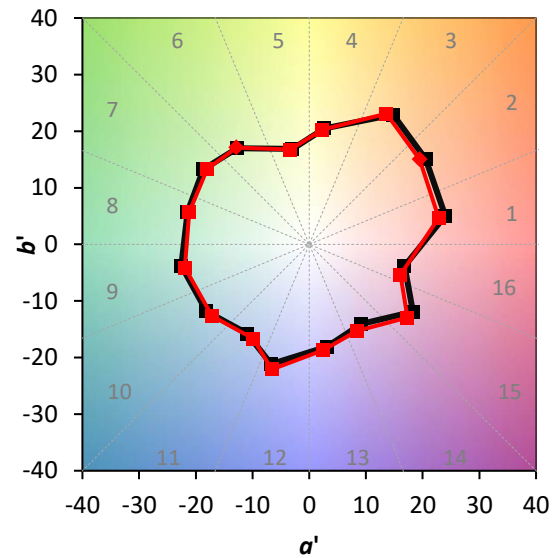
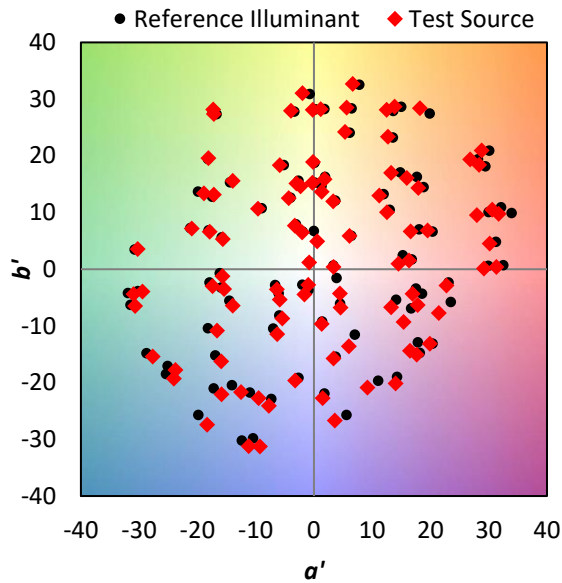
TM-30-18

Summary

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

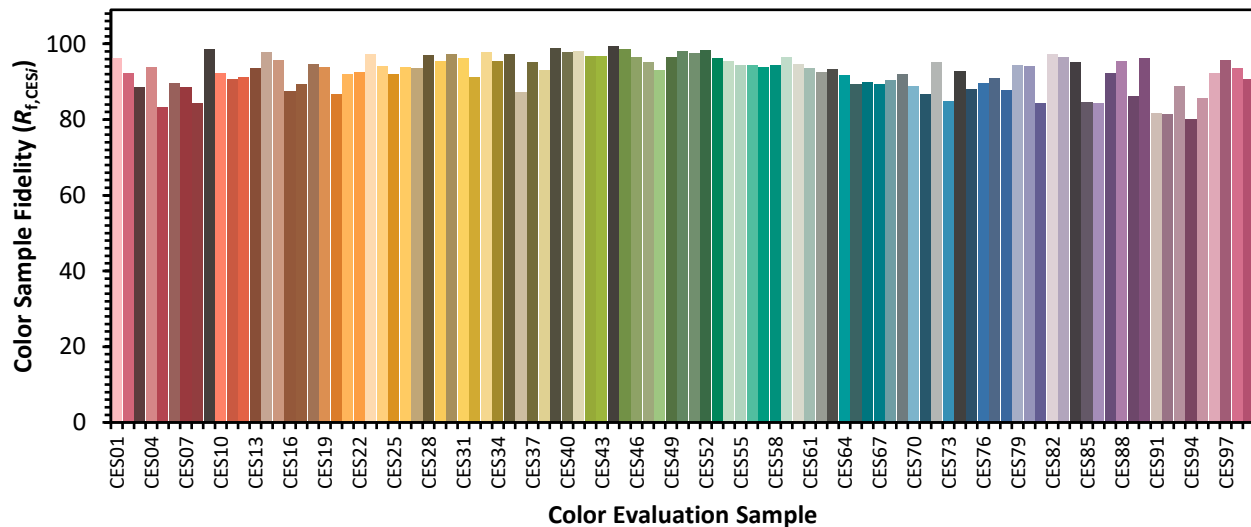


Color Vector Graphics

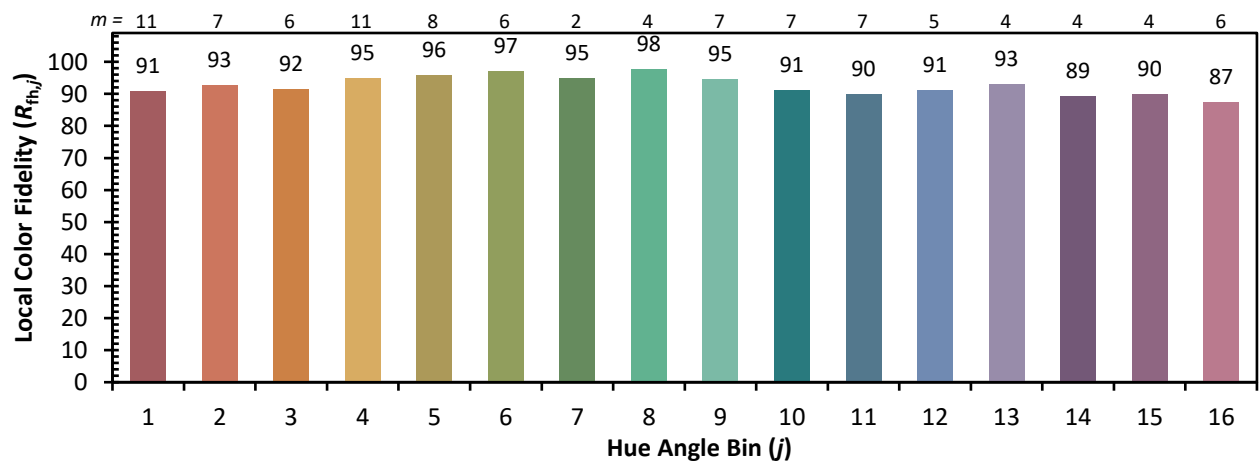
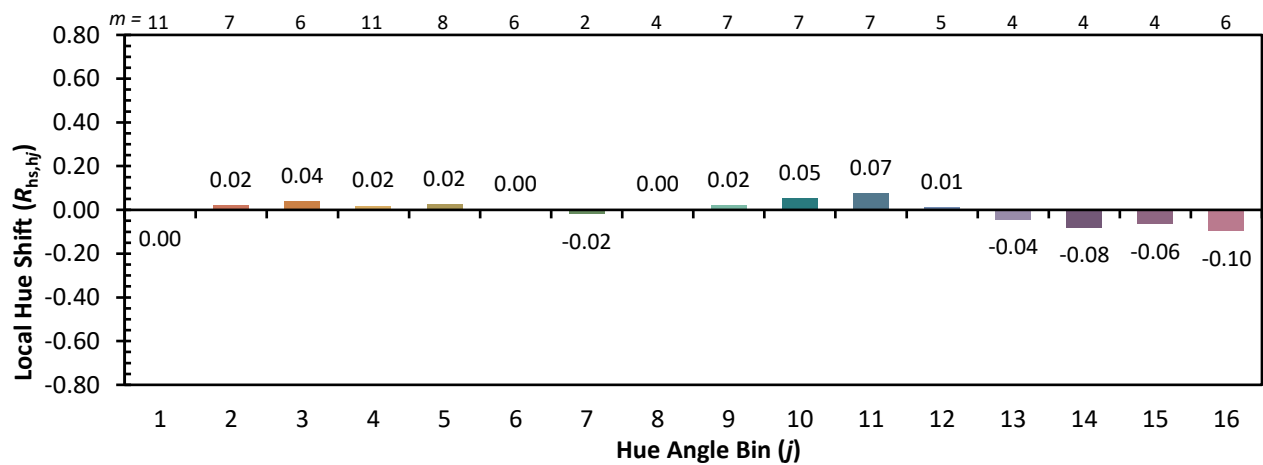
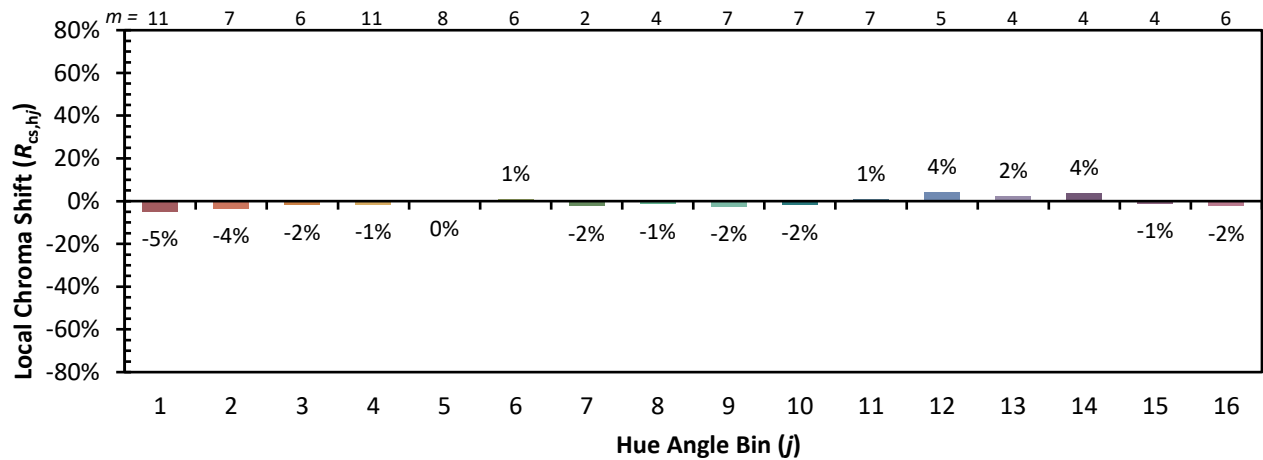


Individual Sample Fidelity Index ($R_{f,i}$)

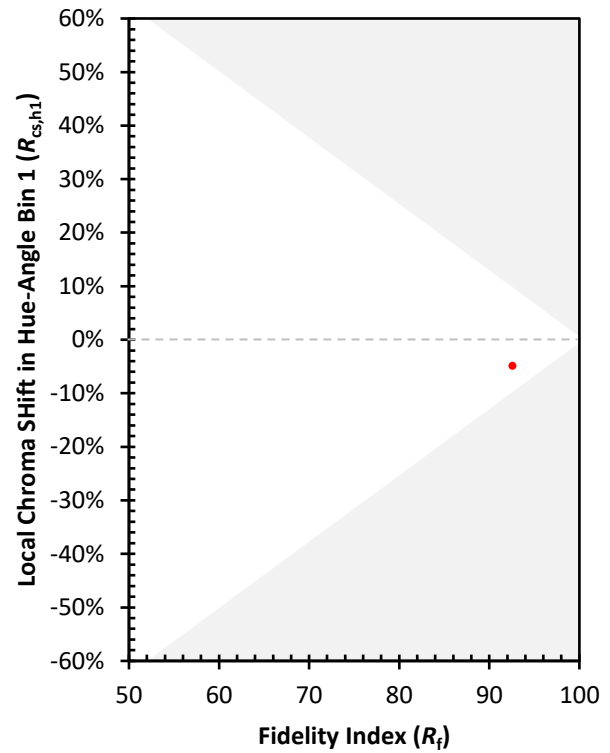
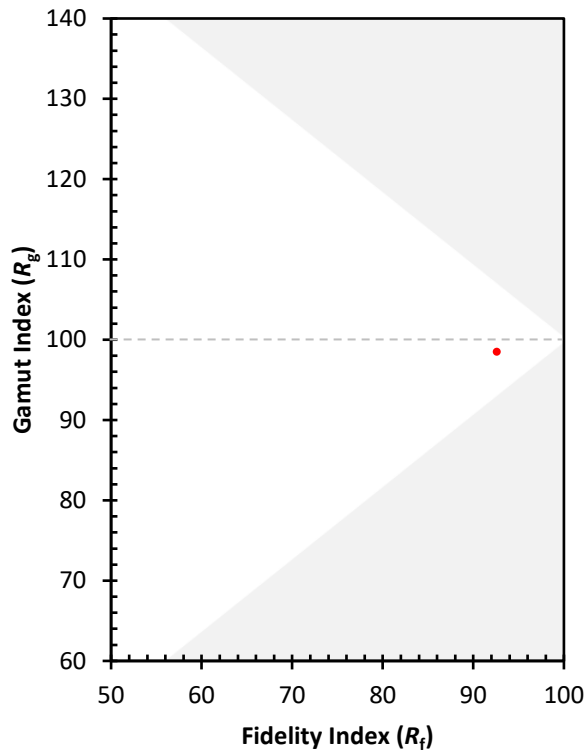
CES01 = 86	CES26 = 94	CES51 = 98	CES76 = 90
CES02 = 63	CES27 = 94	CES52 = 98	CES77 = 91
CES03 = 32	CES28 = 97	CES53 = 96	CES78 = 88
CES04 = 70	CES29 = 95	CES54 = 95	CES79 = 94
CES05 = 51	CES30 = 97	CES55 = 94	CES80 = 94
CES06 = 51	CES31 = 96	CES56 = 94	CES81 = 84
CES07 = 43	CES32 = 91	CES57 = 94	CES82 = 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)