

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: P1050021

Luminaire Tested: **GALN-SA6A-940-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1050021
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-940-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 6xLight Square PACKAGE
90CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14219.6 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

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

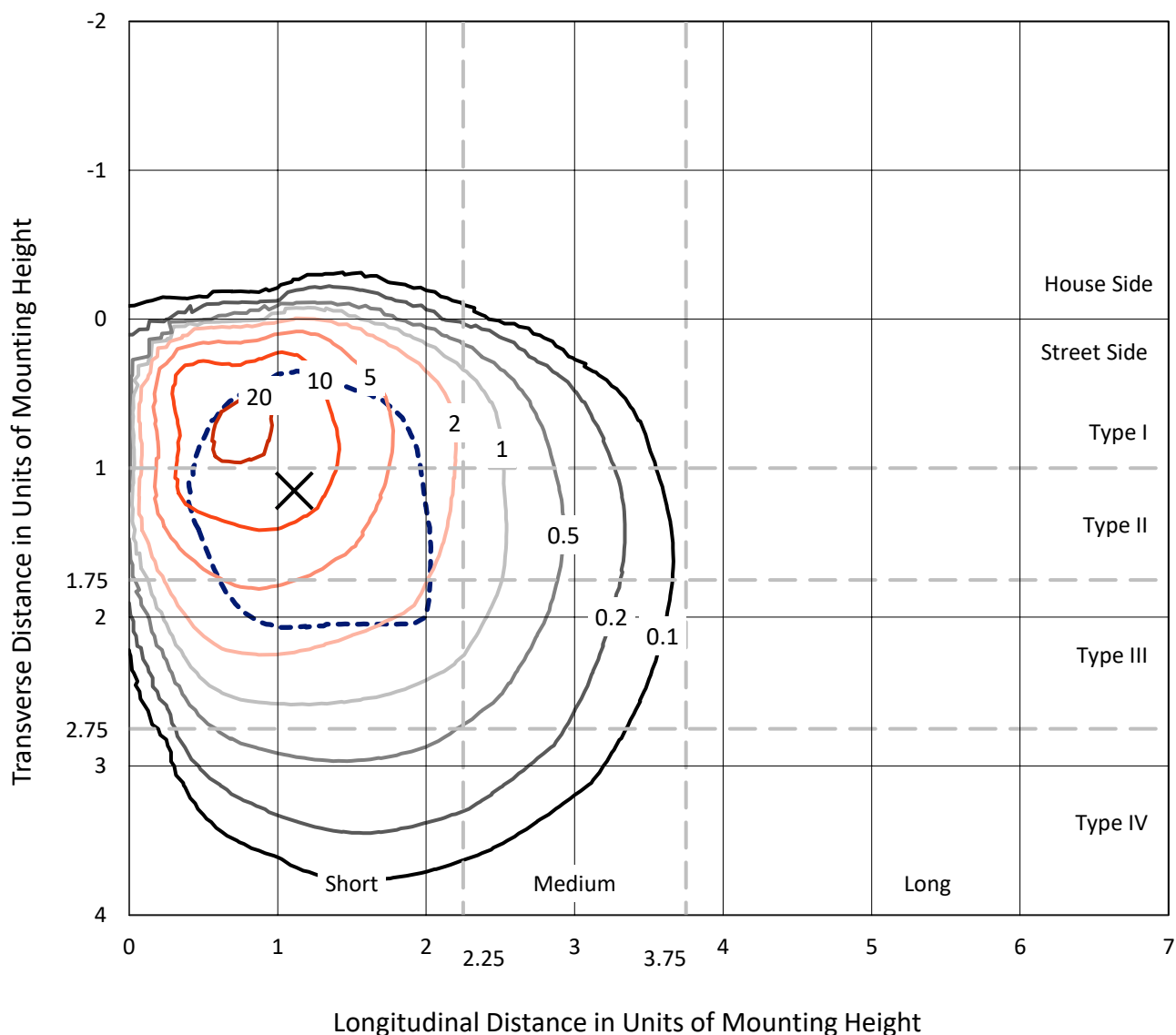
REPORT NUMBER: P1050021

CATALOG NUMBER: GALN-SA6A-940-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

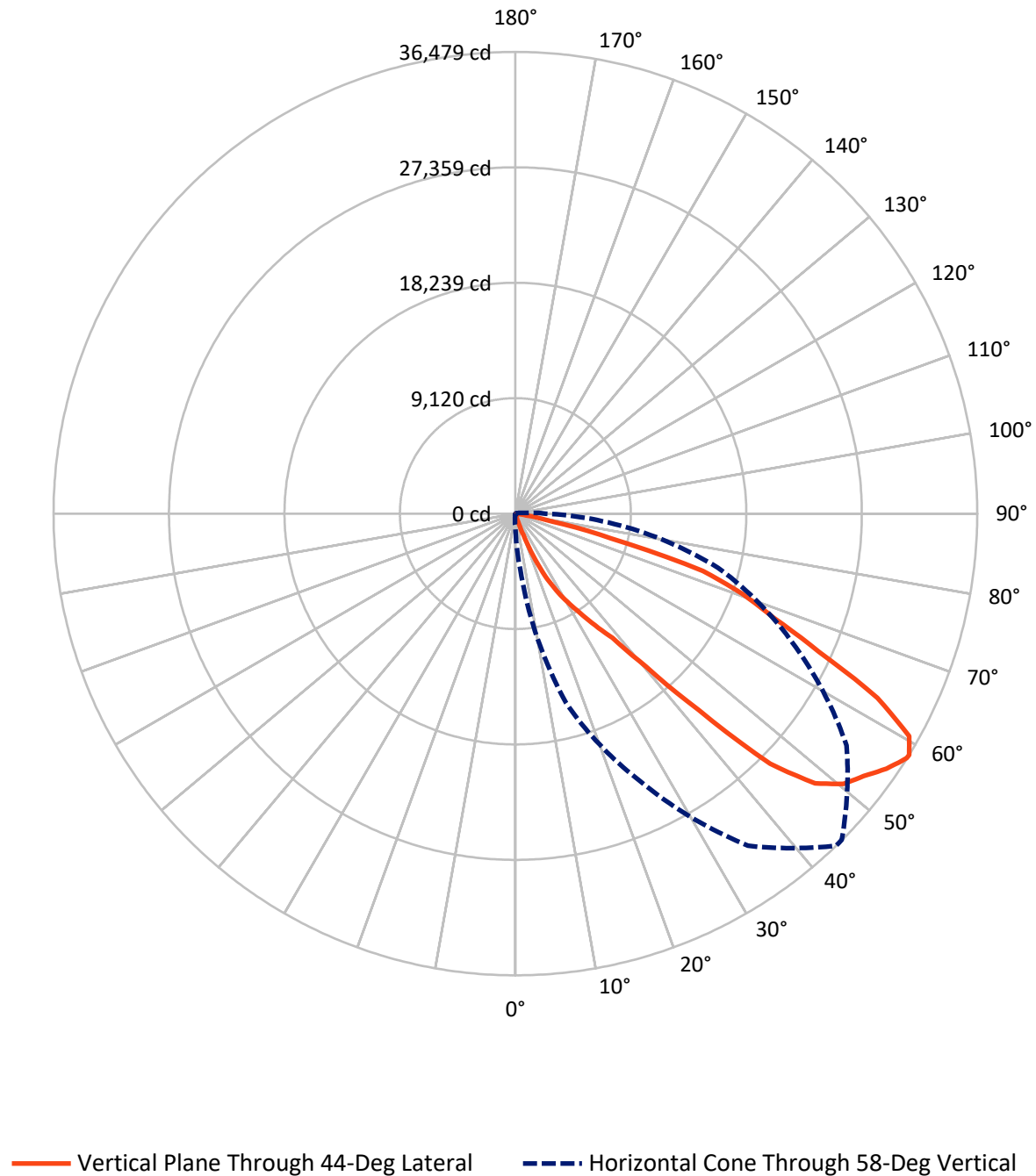


Based on 20 foot mounting height. Maximum calculated value = 24.8 fc

Type III - Short - N/A

REPORT NUMBER: P1050021
CATALOG NUMBER: GALN-SA6A-940-U-LBC

Luminous Intensity Polar Plot



REPORT NUMBER: P1050021

CATALOG NUMBER: GALN-SA6A-940-U-LBC

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	97.1	0.0	97.1
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	14122.5	0.0	14122.5
	% Fixture	99.3	0.0	99.3
Total	Lumens	14219.6	0.0	14219.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.6	0.0
10°-20°	31.2	0.2
20°-30°	336.9	2.4
30°-40°	996.2	7.0
40°-50°	2969.3	20.9
50°-60°	4711.5	33.1
60°-70°	3930.0	27.6
70°-80°	1212.1	8.5
80°-90°	26.9	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°	14219.6	100.0
0°-180°	14219.6	100.0



REPORT NUMBER: P1050021

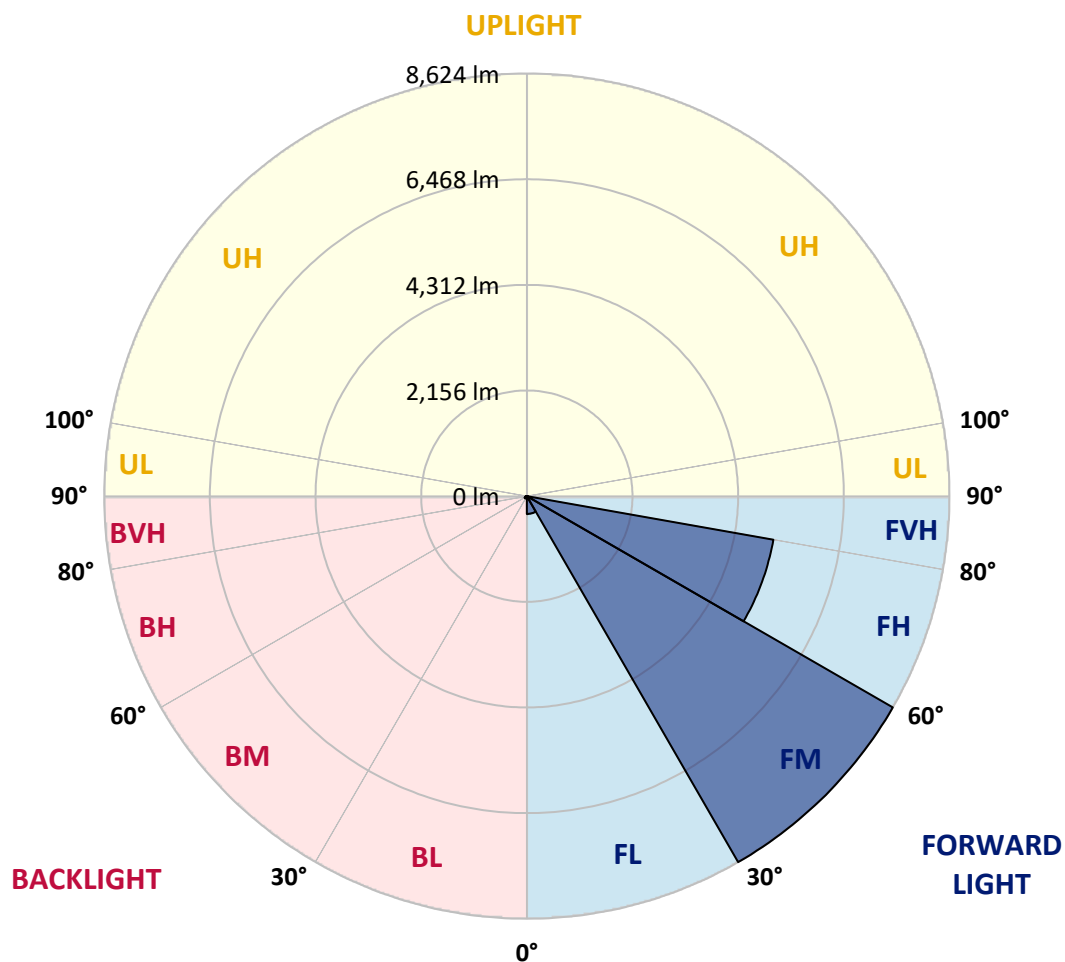
CATALOG NUMBER: GALN-SA6A-940-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	364.1	2.6			
FM	(30°-60°)	8623.9	60.6			
FH	(60°-80°)	5108.9	35.9			G3/7500
FVH	(80°-90°)	25.6	0.2			G1/100
BL	(0°-30°)	9.5	0.1	B0/110		
BM	(30°-60°)	53.1	0.4	B0/220		
BH	(60°-80°)	33.1	0.2	B0/110		G0/110
BVH	(80°-90°)	1.3	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: P1050021

CATALOG NUMBER: GALN-SA6A-940-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
2.5°	80.6	80.6	77.3	73.0	68.7	64.5	63.4	61.2	60.2	59.1
5°	83.8	83.8	82.7	79.5	75.2	72.0	72.0	68.7	66.6	64.5
7.5°	85.9	87.0	89.2	88.1	85.9	82.7	82.7	80.6	77.3	72.0
10°	89.2	92.4	96.7	98.8	99.9	99.9	98.8	97.7	92.4	84.9
12.5°	92.4	98.8	109.6	120.3	126.8	135.3	134.3	132.1	118.2	102.0
15°	98.8	108.5	131.0	162.2	210.5	240.6	252.4	241.7	195.5	137.5
17.5°	106.3	122.5	190.1	339.4	556.4	659.5	721.8	671.4	444.7	261.0
20°	113.9	149.3	353.4	879.7	1443.7	1781.0	1874.4	1728.3	1109.6	497.3
22.5°	126.8	209.5	716.5	1818.6	3110.8	3616.7	3712.3	3245.1	2095.7	981.8
25°	153.6	304.0	1235.3	2963.6	4642.6	5496.5	5456.8	4844.5	3399.7	1568.3
27.5°	192.3	442.6	1868.0	4210.7	6109.9	6862.9	6953.1	6195.8	4531.9	2306.2
30°	248.1	613.3	2546.9	5209.7	7286.1	8100.3	8115.3	7332.3	5544.9	2954.0
32.5°	301.8	774.5	3140.9	6175.4	8445.1	9337.7	9404.3	8440.8	6301.1	3628.5
35°	342.7	879.7	3742.4	7024.0	9613.8	10843.7	10839.4	9695.4	7196.9	4231.1
37.5°	345.9	985.0	4287.0	7891.9	11094.0	12471.1	12607.5	11346.4	8279.7	4976.6
40°	338.4	1103.2	4976.6	9245.4	13761.2	15874.1	15994.4	14404.6	10451.7	6252.7
42.5°	347.0	1308.3	6095.9	11745.0	18190.0	21224.5	21456.5	19785.1	14444.3	8856.5
45°	392.1	1694.0	8440.8	15926.7	24502.8	28202.3	28124.9	25717.7	19090.1	12820.2
47.5°	541.4	2638.2	11916.8	19996.7	28537.4	31831.9	31898.5	28956.3	21801.3	15867.6
50°	832.5	4036.7	14837.5	22148.3	30272.2	33577.4	33515.1	30115.4	22831.4	17368.2
52.5°	1082.8	5048.6	16302.6	22903.4	30494.5	34440.0	34435.7	30420.4	22991.5	17497.1
55°	1145.1	5124.9	16314.5	22944.2	30993.0	35568.9	35710.7	31171.3	23198.8	16934.3
57.5°	1120.4	4537.3	15633.4	23180.5	31880.2	36442.2	36449.7	31898.5	23725.1	16589.4
58°	1098.9	4444.9	15495.9	23314.8	32032.8	36478.7	36460.5	31931.8	24153.7	16576.6
60°	978.6	3859.5	14959.9	23657.5	31806.1	35729.0	35558.2	31204.6	24090.4	16444.4
62.5°	769.1	3010.9	14432.5	23261.1	29376.3	32099.4	32170.3	27626.5	21961.4	15674.3
65°	612.3	2243.9	13332.6	20403.8	24190.3	26360.1	26624.3	22465.1	18330.7	13272.4
67.5°	487.7	1622.0	11184.2	16244.6	19141.7	22000.0	22192.3	18861.3	14201.6	10169.1
70°	396.4	1096.7	7720.0	11880.3	15788.1	19002.0	19013.8	15668.9	10599.9	6663.1
72.5°	351.3	759.4	4481.4	8664.2	12801.9	15484.1	15171.5	12714.9	8146.5	3946.5
75°	304.0	503.8	2197.7	5296.7	7761.9	7814.6	7933.8	5898.3	4072.2	1876.6
77.5°	250.3	357.7	865.8	1446.9	2327.7	2979.7	3090.4	2341.7	1354.5	461.9
80°	171.9	169.7	233.1	443.6	666.0	834.6	778.8	602.6	354.5	177.2
82.5°	74.1	80.6	105.3	126.8	103.1	99.9	95.6	61.2	47.3	36.5
85°	23.6	21.5	22.6	22.6	18.3	14.0	14.0	6.4	0.0	0.0
87.5°	11.8	9.7	9.7	8.6	5.4	2.1	1.1	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: P1050021

CATALOG NUMBER: GALN-SA6A-940-U-LBC

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
62.3	0°	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
58.0	2.5°	56.9	56.9	54.8	52.6	51.6	49.4	48.3	47.3	46.2	45.1
62.3	5°	60.2	59.1	55.9	52.6	49.4	46.2	44.0	41.9	39.7	38.7
68.7	7.5°	65.5	63.4	56.9	51.6	47.3	43.0	40.8	37.6	35.4	32.2
76.3	10°	72.0	67.7	59.1	52.6	46.2	40.8	37.6	34.4	31.2	26.9
87.0	12.5°	80.6	73.0	62.3	51.6	44.0	37.6	34.4	30.1	26.9	23.6
101.0	15°	88.1	78.4	63.4	51.6	41.9	34.4	30.1	25.8	22.6	18.3
126.8	17.5°	98.8	82.7	62.3	48.3	38.7	30.1	25.8	22.6	17.2	10.7
188.0	20°	117.1	85.9	60.2	45.1	33.3	24.7	19.3	15.0	7.5	2.1
282.5	22.5°	146.1	94.5	58.0	40.8	29.0	19.3	12.9	5.4	0.0	0.0
429.7	25°	201.9	109.6	58.0	38.7	25.8	14.0	4.3	0.0	0.0	0.0
610.1	27.5°	268.5	130.0	58.0	33.3	20.4	7.5	0.0	0.0	0.0	0.0
831.4	30°	336.2	152.5	58.0	29.0	16.1	1.1	0.0	0.0	0.0	0.0
1023.7	32.5°	400.7	171.9	59.1	24.7	10.7	0.0	0.0	0.0	0.0	0.0
1290.1	35°	466.2	175.1	58.0	21.5	6.4	0.0	0.0	0.0	0.0	0.0
1616.6	37.5°	550.0	168.6	54.8	19.3	3.2	0.0	0.0	0.0	0.0	0.0
2126.9	40°	676.7	171.9	51.6	18.3	1.1	0.0	0.0	0.0	0.0	0.0
3036.7	42.5°	910.9	185.8	47.3	18.3	0.0	0.0	0.0	0.0	0.0	0.0
4837.0	45°	1574.7	249.2	43.0	19.3	0.0	0.0	0.0	0.0	0.0	0.0
7261.4	47.5°	2604.9	447.9	41.9	19.3	0.0	0.0	0.0	0.0	0.0	0.0
8746.9	50°	3324.5	563.9	44.0	20.4	0.0	0.0	0.0	0.0	0.0	0.0
8932.8	52.5°	3319.2	628.4	46.2	21.5	4.3	0.0	0.0	0.0	0.0	0.0
8233.5	55°	2950.7	640.2	49.4	23.6	14.0	0.0	0.0	0.0	0.0	0.0
7075.5	57.5°	2466.3	584.3	56.9	29.0	25.8	0.0	0.0	0.0	0.0	0.0
6894.0	58°	2380.4	558.6	59.1	30.1	27.9	0.0	0.0	0.0	0.0	0.0
5979.9	60°	1950.7	455.4	75.2	37.6	37.6	0.0	0.0	0.0	0.0	0.0
4902.5	62.5°	1347.0	397.4	85.9	48.3	38.7	0.0	0.0	0.0	0.0	0.0
3614.6	65°	952.8	358.8	93.5	51.6	31.2	0.0	0.0	0.0	0.0	0.0
2568.3	67.5°	712.2	330.8	103.1	52.6	16.1	0.0	0.0	0.0	0.0	0.0
1611.3	70°	545.7	310.4	126.8	55.9	4.3	0.0	0.0	0.0	0.0	0.0
960.3	72.5°	444.7	286.8	153.6	58.0	0.0	0.0	0.0	0.0	0.0	0.0
575.8	75°	368.4	258.9	148.2	63.4	0.0	0.0	0.0	0.0	0.0	0.0
307.2	77.5°	244.9	200.9	135.3	63.4	0.0	0.0	0.0	0.0	0.0	0.0
109.6	80°	85.9	79.5	105.3	55.9	0.0	0.0	0.0	0.0	0.0	0.0
22.6	82.5°	12.9	10.7	15.0	19.3	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: P1050021

CATALOG NUMBER: GALN-SA6A-940-U-LBC

CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
62.3	0°	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
44.0	2.5°	44.0	44.0	43.0	44.0	44.0	46.2	51.6	59.1	67.7	70.9
37.6	5°	36.5	35.4	34.4	34.4	34.4	37.6	41.9	50.5	60.2	64.5
31.2	7.5°	30.1	29.0	27.9	26.9	26.9	29.0	34.4	44.0	53.7	58.0
25.8	10°	24.7	22.6	21.5	20.4	20.4	22.6	27.9	37.6	48.3	52.6
21.5	12.5°	20.4	17.2	15.0	14.0	12.9	16.1	21.5	30.1	41.9	47.3
16.1	15°	14.0	10.7	7.5	6.4	5.4	8.6	14.0	23.6	35.4	41.9
8.6	17.5°	7.5	3.2	1.1	0.0	0.0	2.1	6.4	17.2	29.0	34.4
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	21.5	26.9
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	12.9	18.3
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	9.7
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
0.0	30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	8.6
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: P1050021

CATALOG NUMBER: GALN-SA6A-940-U-LBC

CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
62.3	0°	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
74.1	2.5°	76.3	75.2	73.0	70.9	70.9	70.9	74.1	77.3	80.6	80.6
66.6	5°	70.9	70.9	69.8	67.7	67.7	68.7	73.0	78.4	82.7	83.8
61.2	7.5°	65.5	67.7	65.5	64.5	65.5	66.6	70.9	77.3	83.8	85.9
56.9	10°	62.3	63.4	63.4	62.3	62.3	64.5	68.7	77.3	85.9	89.2
51.6	12.5°	58.0	60.2	59.1	59.1	59.1	61.2	66.6	76.3	88.1	92.4
46.2	15°	53.7	56.9	56.9	55.9	55.9	56.9	64.5	75.2	91.3	98.8
39.7	17.5°	49.4	52.6	53.7	51.6	51.6	53.7	61.2	75.2	93.5	106.3
32.2	20°	40.8	46.2	49.4	46.2	46.2	48.3	55.9	70.9	94.5	113.9
23.6	22.5°	32.2	37.6	41.9	40.8	40.8	41.9	51.6	67.7	95.6	126.8
14.0	25°	23.6	29.0	32.2	34.4	34.4	37.6	47.3	65.5	99.9	153.6
6.4	27.5°	14.0	20.4	24.7	26.9	27.9	32.2	44.0	63.4	107.4	192.3
0.0	30°	6.4	11.8	17.2	21.5	21.5	29.0	40.8	61.2	117.1	248.1
0.0	32.5°	0.0	5.4	8.6	15.0	16.1	23.6	37.6	59.1	131.0	301.8
0.0	35°	0.0	0.0	4.3	11.8	11.8	19.3	34.4	56.9	152.5	342.7
0.0	37.5°	0.0	0.0	0.0	8.6	9.7	17.2	33.3	55.9	156.8	345.9
0.0	40°	0.0	0.0	0.0	6.4	7.5	16.1	33.3	56.9	141.8	338.4
0.0	42.5°	0.0	0.0	0.0	4.3	5.4	16.1	33.3	59.1	127.8	347.0
0.0	45°	0.0	0.0	0.0	3.2	4.3	17.2	32.2	58.0	120.3	392.1
0.0	47.5°	0.0	0.0	0.0	4.3	6.4	17.2	31.2	56.9	121.4	541.4
0.0	50°	0.0	0.0	0.0	5.4	7.5	17.2	32.2	54.8	133.2	832.5
0.0	52.5°	0.0	0.0	0.0	4.3	6.4	19.3	35.4	53.7	145.0	1082.8
0.0	55°	0.0	0.0	0.0	1.1	3.2	24.7	38.7	53.7	163.3	1145.1
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	27.9	44.0	56.9	193.4	1120.4
0.0	58°	0.0	0.0	0.0	0.0	0.0	27.9	45.1	56.9	195.5	1098.9
0.0	60°	0.0	0.0	0.0	0.0	0.0	27.9	49.4	63.4	210.5	978.6
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	23.6	59.1	79.5	219.1	769.1
0.0	65°	0.0	0.0	0.0	0.0	0.0	19.3	69.8	87.0	225.6	612.3
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	18.3	72.0	88.1	228.8	487.7
0.0	70°	0.0	0.0	0.0	0.0	0.0	19.3	70.9	94.5	239.5	396.4
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	21.5	64.5	104.2	239.5	351.3
0.0	75°	0.0	0.0	0.0	0.0	0.0	22.6	60.2	117.1	218.1	304.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	21.5	59.1	136.4	194.4	250.3
0.0	80°	2.1	3.2	3.2	2.1	2.1	18.3	58.0	138.6	165.4	171.9
1.1	82.5°	6.4	8.6	7.5	5.4	5.4	16.1	51.6	116.0	85.9	74.1
6.4	85°	11.8	14.0	14.0	11.8	11.8	15.0	32.2	41.9	29.0	23.6
11.8	87.5°	16.1	18.3	18.3	16.1	16.1	15.0	14.0	12.9	11.8	11.8
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: SP1-2407-184-16

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-940-U-5WQ

Data in this report applies to families of products including GSS-SB1A-940-U-5WQ

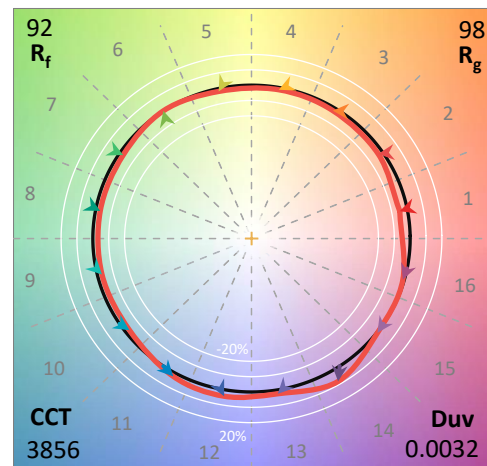
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-16
 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-940-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 4000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3856
 CIE u' : 0.2261
 CIE v' : 0.5084
 Duv: 0.0032
 CIE x: 0.3896
 CIE y: 0.3894
 CIE z: 0.2211
 Peak Wavelength (nm): 614
 Dominant Wavelength (nm): 578
 Purity: 33.77304
 R_f: 91.8
 R_g: 98.4

CRI (Ra): 92.1
 R1: 91.8
 R2: 94.1
 R3: 95.3
 R4: 92.8
 R5: 91.0
 R6: 91.6
 R7: 95.0
 R8: 85.2
 R9: 60.7
 R10: 85.2
 R11: 92.4
 R12: 74.5
 R13: 92.3
 R14: 97.0
 R15: 88.5



Test Conditions

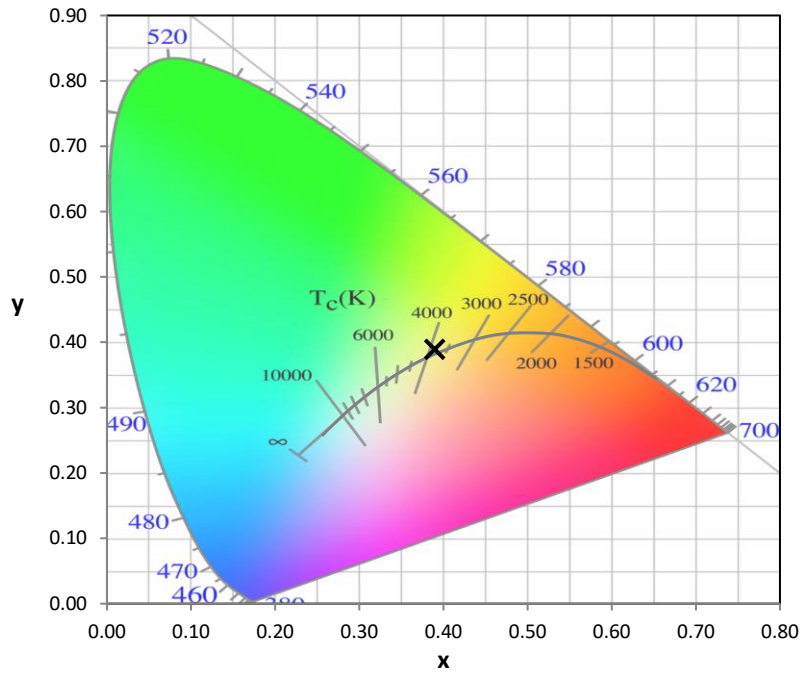
Stabilization Time: 23M
 Operation Time: 1H 23M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-16

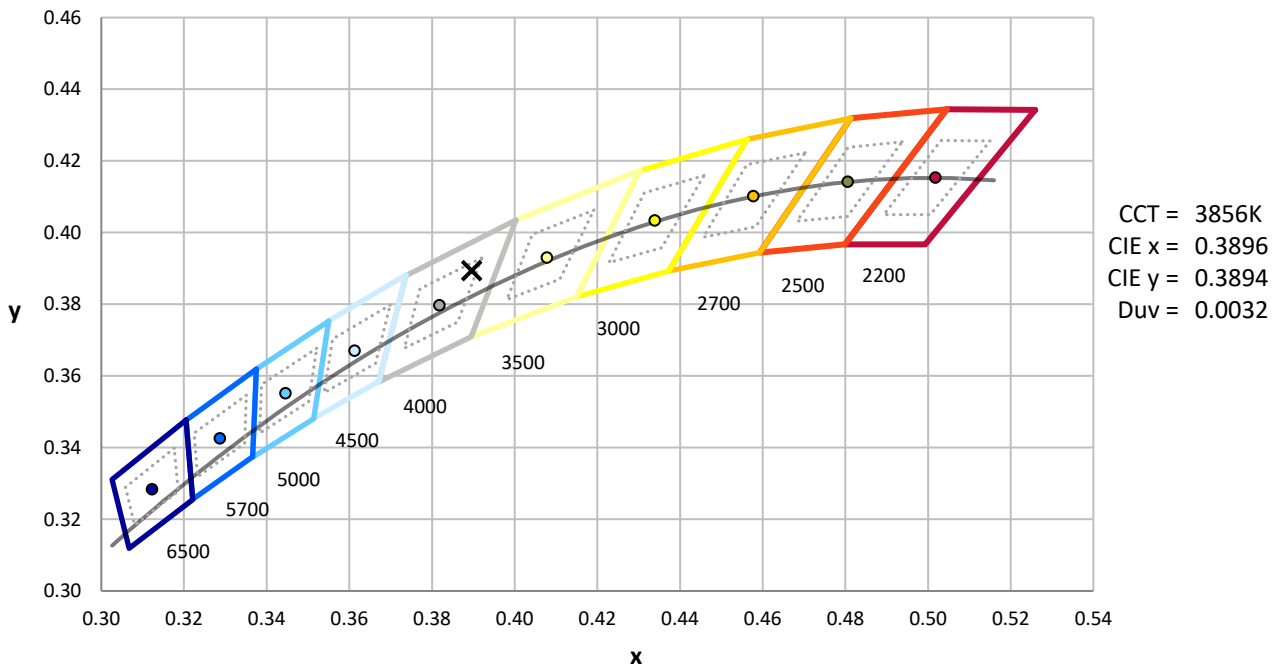
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-16

CIE 1931 Chromaticity Diagram



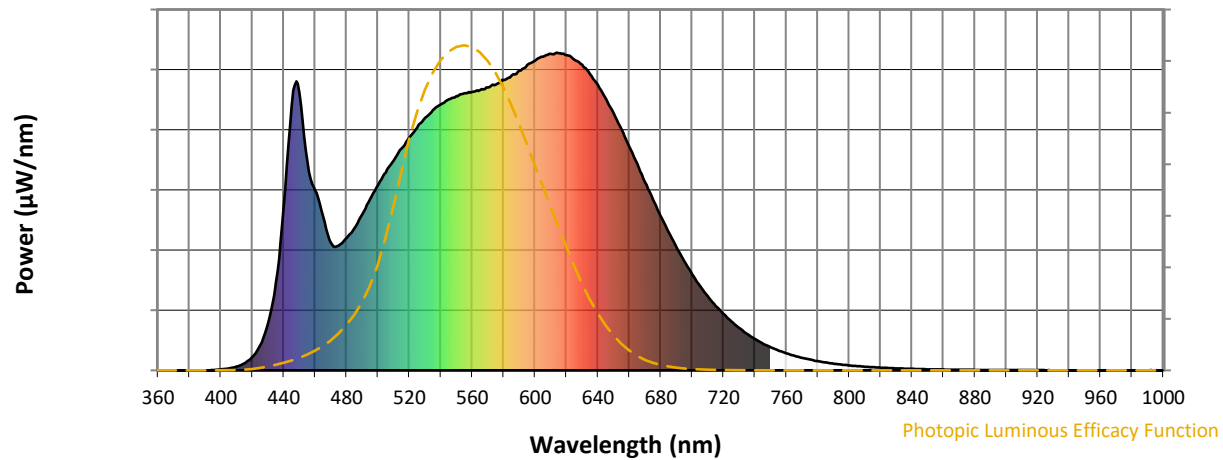
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-16

Photopic Flux vs. Wavelength

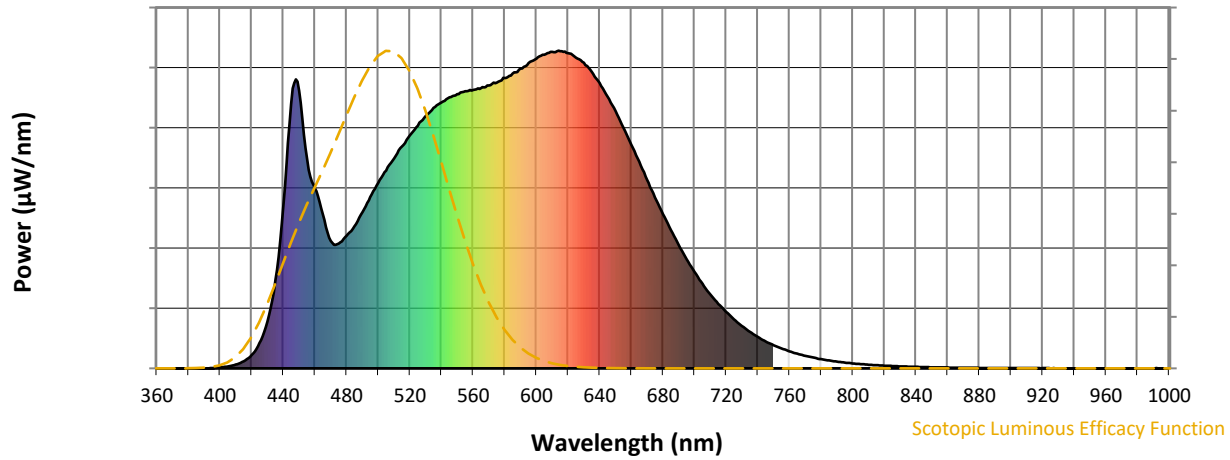


Photopic Lumens: NR

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	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-16

Scotopic Flux vs. Wavelength



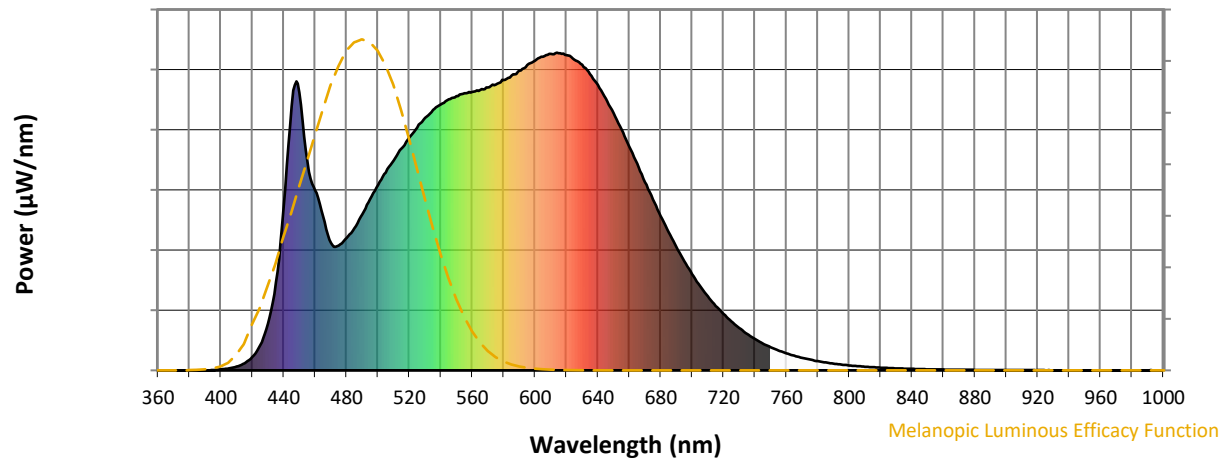
Scotopic Lumens: NR

S/P: 1.72

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	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-16

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.52

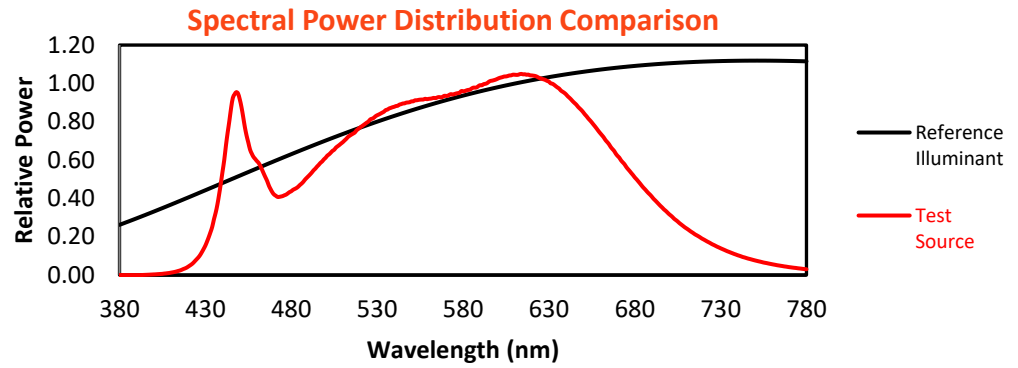
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-16

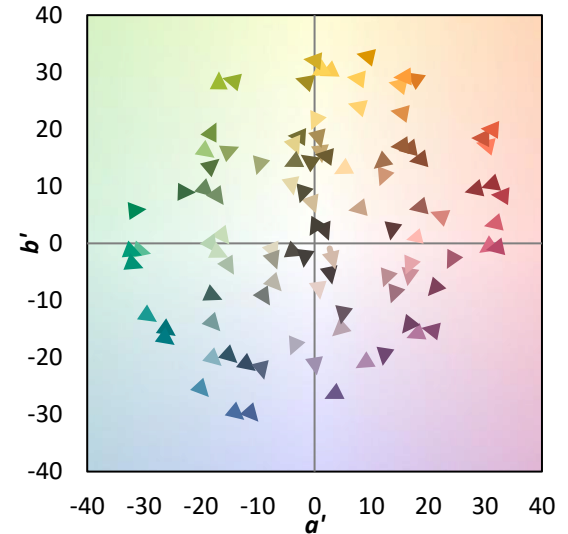
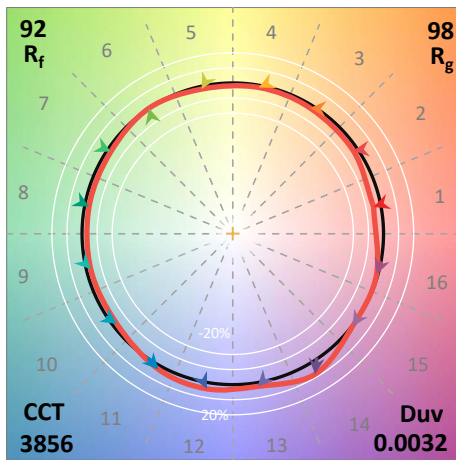
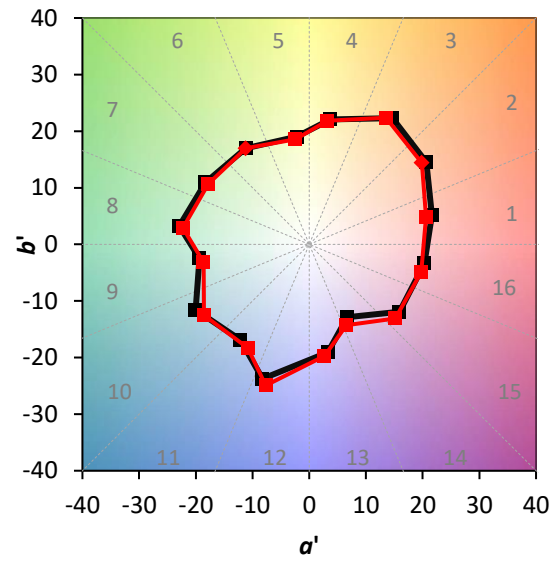
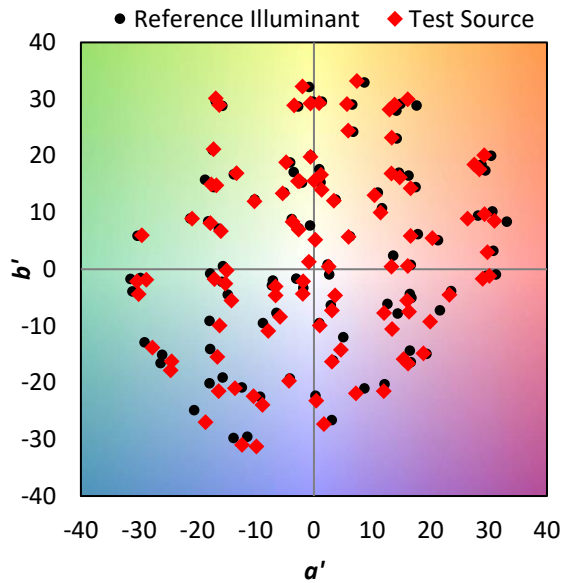
TM-30-18

Summary

$R_f = 91.8$
 $R_g = 98.4$
 $CIE R_a = 92.1$
 $R_9 = 60.7$

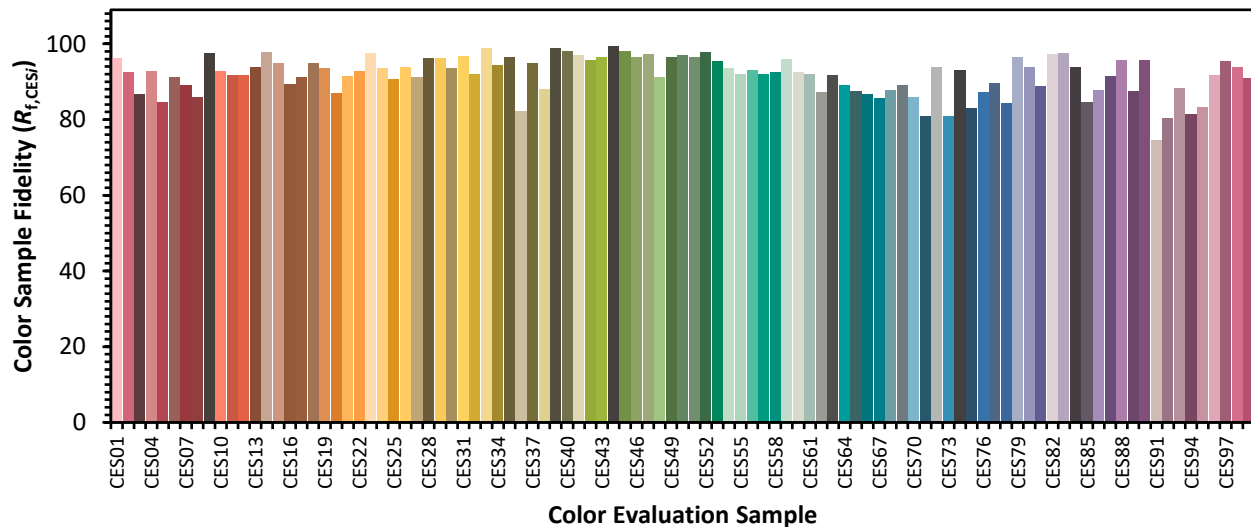


Color Vector Graphics

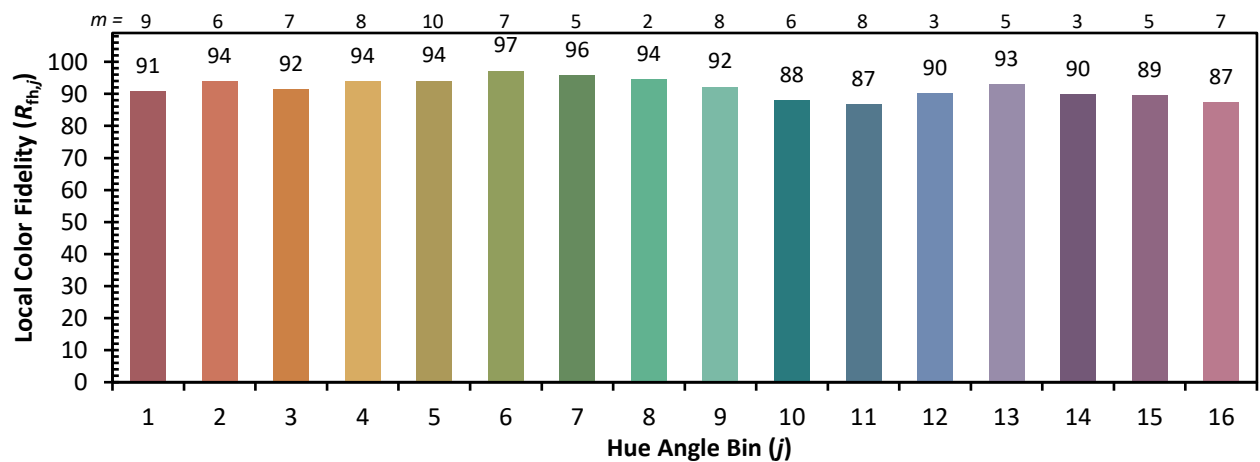
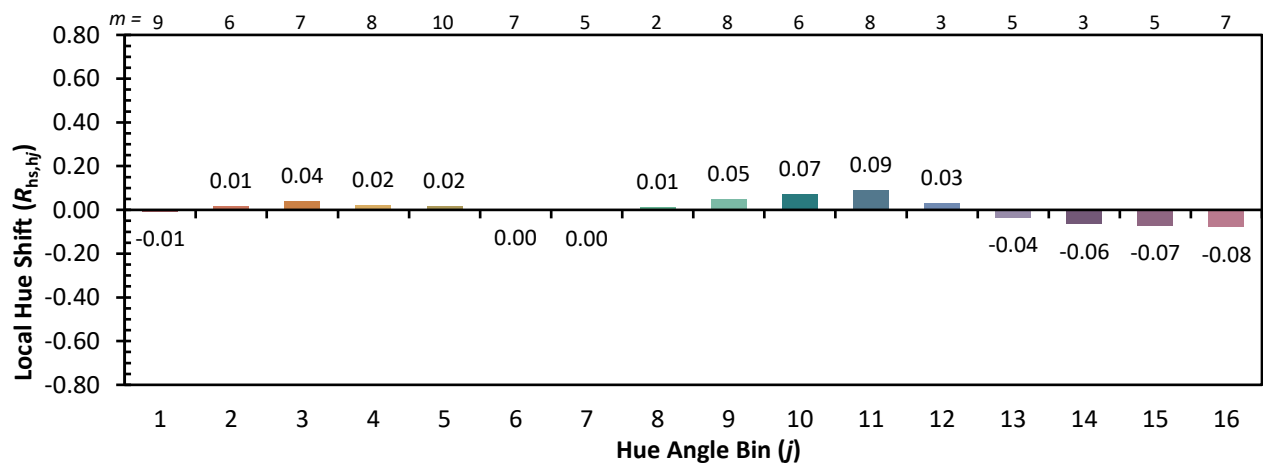
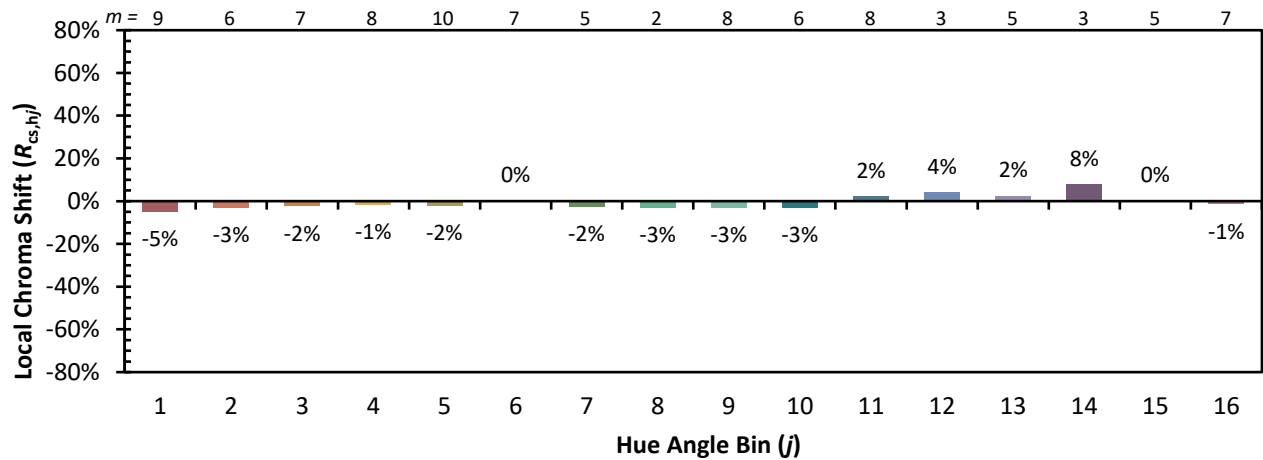


Individual Sample Fidelity Index ($R_{f,i}$)

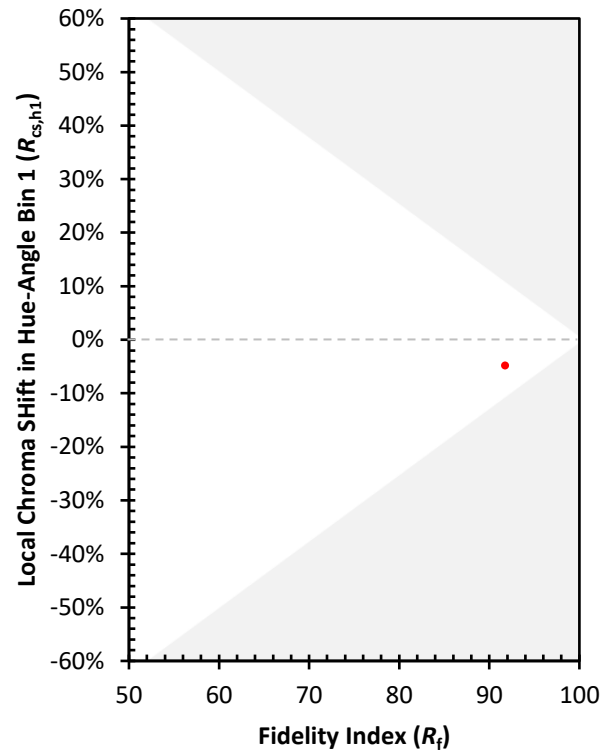
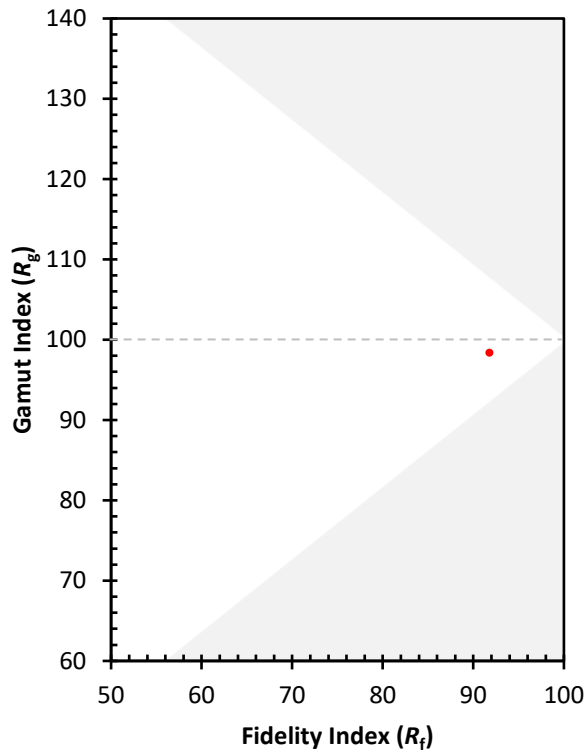
CES01 = 86	CES26 = 94	CES51 = 96	CES76 = 87
CES02 = 62	CES27 = 91	CES52 = 98	CES77 = 90
CES03 = 31	CES28 = 96	CES53 = 95	CES78 = 84
CES04 = 69	CES29 = 96	CES54 = 94	CES79 = 96
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 94
CES06 = 50	CES31 = 97	CES56 = 93	CES81 = 89
CES07 = 42	CES32 = 92	CES57 = 92	CES82 = 97
CES08 = 41	CES33 = 99	CES58 = 92	CES83 = 98
CES09 = 29	CES34 = 94	CES59 = 96	CES84 = 94
CES10 = 74	CES35 = 96	CES60 = 93	CES85 = 85
CES11 = 57	CES36 = 82	CES61 = 92	CES86 = 88
CES12 = 63	CES37 = 95	CES62 = 87	CES87 = 92
CES13 = 43	CES38 = 88	CES63 = 92	CES88 = 96
CES14 = 74	CES39 = 99	CES64 = 89	CES89 = 87
CES15 = 71	CES40 = 98	CES65 = 88	CES90 = 96
CES16 = 47	CES41 = 97	CES66 = 87	CES91 = 74
CES17 = 49	CES42 = 96	CES67 = 86	CES92 = 80
CES18 = 56	CES43 = 96	CES68 = 88	CES93 = 88
CES19 = 71	CES44 = 99	CES69 = 89	CES94 = 82
CES20 = 66	CES45 = 98	CES70 = 86	CES95 = 83
CES21 = 85	CES46 = 97	CES71 = 81	CES96 = 92
CES22 = 78	CES47 = 97	CES72 = 94	CES97 = 95
CES23 = 91	CES48 = 91	CES73 = 81	CES98 = 94
CES24 = 90	CES49 = 96	CES74 = 93	CES99 = 91
CES25 = 71	CES50 = 97	CES75 = 83	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)