

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: P1049593

Luminaire Tested: **GALN-SA7A-730-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049593
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-730-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 7xLight Square PACKAGE
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (98) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22059.7 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

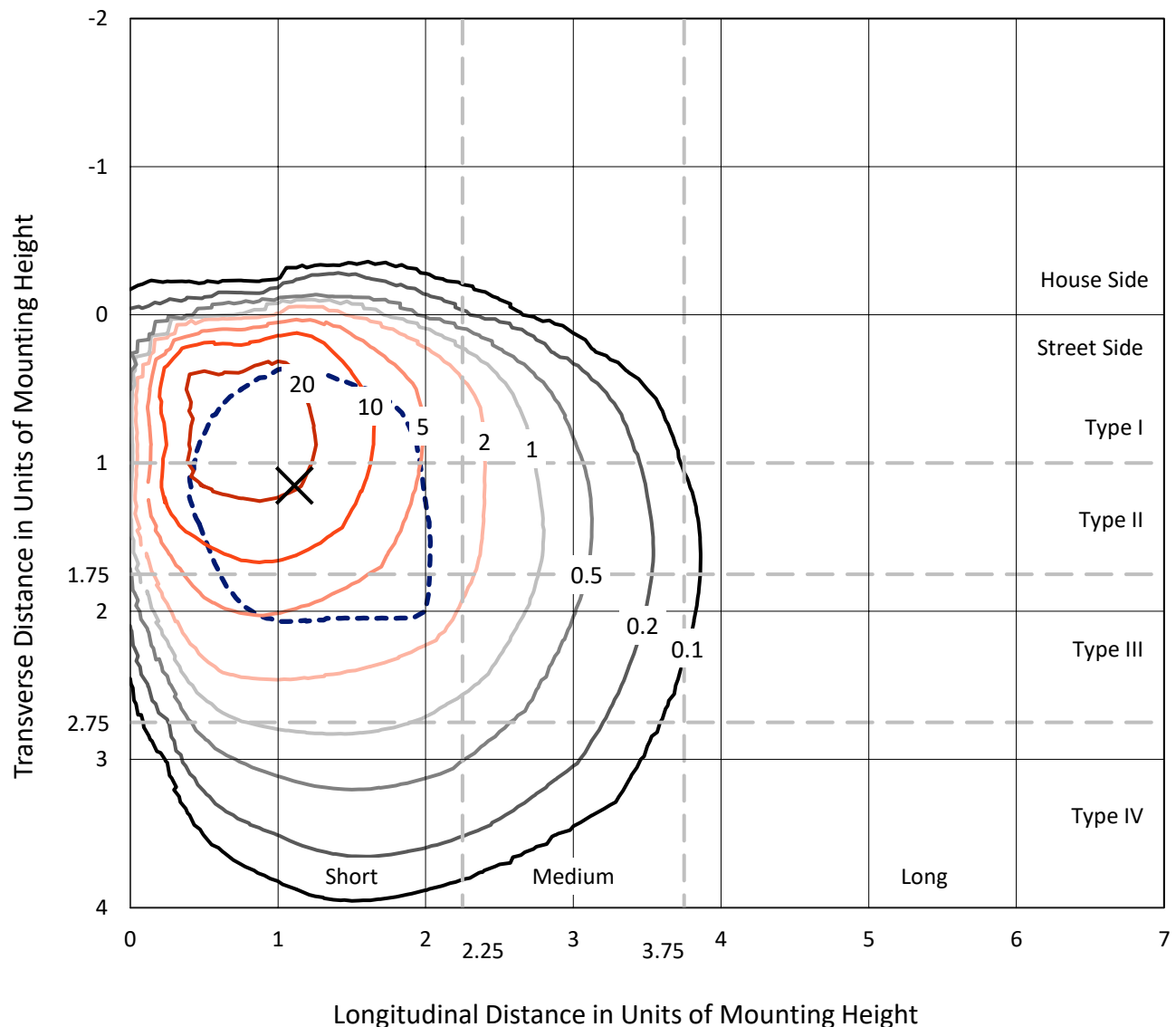
Input Watts (W): 193.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1049593

CATALOG NUMBER: GALN-SA7A-730-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

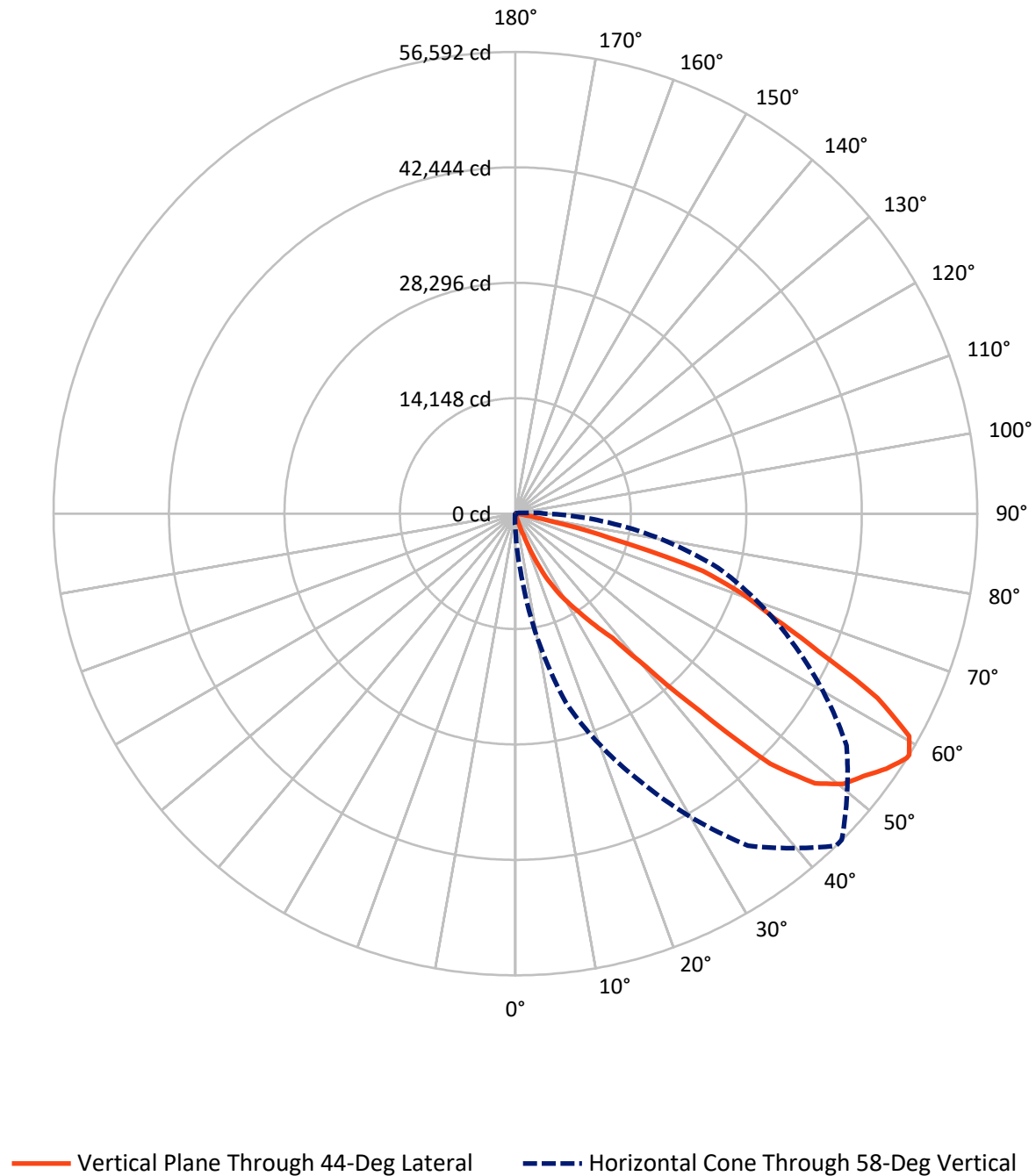
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 38.4 fc
 Type III - Short - N/A

REPORT NUMBER: P1049593
CATALOG NUMBER: GALN-SA7A-730-U-LBC

Luminous Intensity Polar Plot



REPORT NUMBER: P1049593

CATALOG NUMBER: GALN-SA7A-730-U-LBC

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	150.6	0.0	150.6
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	21909.1	0.0	21909.1
	% Fixture	99.3	0.0	99.3
Total	Lumens	22059.7	0.0	22059.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.6	0.0
10°-20°	48.4	0.2
20°-30°	522.6	2.4
30°-40°	1545.5	7.0
40°-50°	4606.4	20.9
50°-60°	7309.3	33.1
60°-70°	6096.8	27.6
70°-80°	1880.4	8.5
80°-90°	41.8	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°	22059.7	100.0
0°-180°	22059.7	100.0



REPORT NUMBER: P1049593

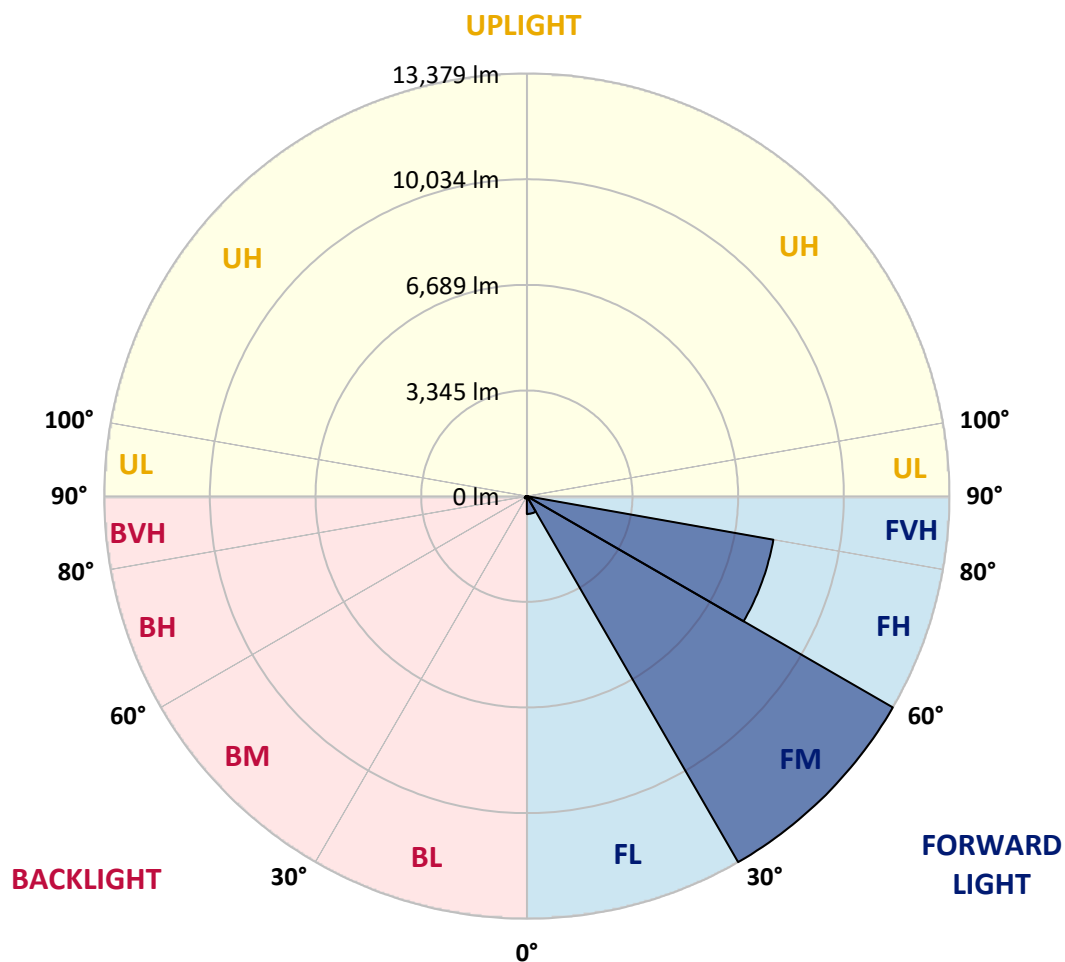
CATALOG NUMBER: GALN-SA7A-730-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	564.9	2.6			
FM	(30°-60°)	13378.8	60.6			
FH	(60°-80°)	7925.7	35.9			G4/12000
FVH	(80°-90°)	39.7	0.2			G1/100
BL	(0°-30°)	14.7	0.1	B0/110		
BM	(30°-60°)	82.4	0.4	B0/220		
BH	(60°-80°)	51.4	0.2	B0/110		G0/110
BVH	(80°-90°)	2.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G4

Type III Short



REPORT NUMBER: P1049593

CATALOG NUMBER: GALN-SA7A-730-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
2.5°	125.0	125.0	120.0	113.3	106.7	100.0	98.3	95.0	93.3	91.7
5°	130.0	130.0	128.3	123.3	116.6	111.7	111.7	106.7	103.3	100.0
7.5°	133.3	135.0	138.3	136.6	133.3	128.3	128.3	125.0	120.0	111.7
10°	138.3	143.3	150.0	153.3	155.0	155.0	153.3	151.6	143.3	131.6
12.5°	143.3	153.3	170.0	186.6	196.6	210.0	208.3	205.0	183.3	158.3
15°	153.3	168.3	203.3	251.6	326.6	373.3	391.6	374.9	303.3	213.3
17.5°	165.0	190.0	295.0	526.6	863.2	1023.2	1119.8	1041.5	689.9	404.9
20°	176.6	231.6	548.3	1364.8	2239.7	2762.9	2907.9	2681.3	1721.4	771.6
22.5°	196.6	325.0	1111.5	2821.3	4826.0	5610.8	5759.2	5034.3	3251.2	1523.1
25°	238.3	471.6	1916.4	4597.7	7202.3	8527.1	8465.4	7515.6	5274.2	2433.0
27.5°	298.3	686.6	2897.9	6532.4	9478.6	10646.8	10786.8	9611.9	7030.6	3577.8
30°	384.9	951.5	3951.1	8082.2	11303.4	12566.5	12589.8	11375.0	8602.1	4582.7
32.5°	468.3	1201.5	4872.6	9580.3	13101.4	14486.2	14589.5	13094.8	9775.2	5629.2
35°	531.6	1364.8	5805.8	10896.7	14914.5	16822.5	16815.9	15041.1	11165.0	6564.0
37.5°	536.6	1528.1	6650.7	12243.2	17210.8	19347.2	19558.8	17602.4	12844.8	7720.5
40°	524.9	1711.4	7720.5	14342.9	21348.6	24626.4	24813.0	22346.7	16214.3	9700.3
42.5°	538.3	2029.7	9457.0	18220.7	28219.2	32926.9	33286.8	30693.9	22408.4	13739.7
45°	608.2	2627.9	13094.8	24708.1	38012.8	43752.0	43632.0	39897.5	29615.7	19888.8
47.5°	839.9	4092.7	18487.3	31022.1	44271.9	49382.8	49486.1	44921.8	33821.7	24616.4
50°	1291.5	6262.4	23018.3	34360.0	46963.1	52090.7	51994.1	46719.9	35419.8	26944.4
52.5°	1679.8	7832.2	25291.3	35531.5	47308.1	53428.9	53422.2	47193.1	35668.1	27144.4
55°	1776.4	7950.5	25309.6	35594.8	48081.3	55180.3	55400.3	48357.9	35989.7	26271.2
57.5°	1738.1	7039.0	24253.1	35961.4	49457.8	56535.1	56546.8	49486.1	36806.3	25736.2
58°	1704.8	6895.7	24039.8	36169.7	49694.4	56591.7	56563.4	49537.8	37471.2	25716.2
60°	1518.1	5987.5	23208.3	36701.3	49342.8	55428.6	55163.6	48409.6	37372.9	25511.3
62.5°	1193.2	4671.0	22390.1	36086.4	45573.4	49797.7	49907.7	42858.7	34070.0	24316.5
65°	949.9	3481.2	20683.6	31653.7	37527.9	40894.0	41304.0	34851.6	28437.5	20590.3
67.5°	756.6	2516.3	17350.8	25201.3	29695.7	34130.0	34428.3	29260.7	22031.8	15776.0
70°	614.9	1701.4	11976.6	18430.6	24493.1	29479.0	29497.4	24308.1	16444.3	10336.8
72.5°	544.9	1178.2	6952.3	13441.4	19860.4	24021.5	23536.6	19725.5	12638.2	6122.4
75°	471.6	781.6	3409.5	8217.1	12041.6	12123.2	12308.2	9150.3	6317.4	2911.2
77.5°	388.3	554.9	1343.1	2244.7	3611.1	4622.7	4794.3	3632.8	2101.4	716.6
80°	266.6	263.3	361.6	688.2	1033.2	1294.8	1208.2	934.9	549.9	275.0
82.5°	115.0	125.0	163.3	196.6	160.0	155.0	148.3	95.0	73.3	56.7
85°	36.7	33.3	35.0	35.0	28.3	21.7	21.7	10.0	0.0	0.0
87.5°	18.3	15.0	15.0	13.3	8.3	3.3	1.7	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

REPORT NUMBER: P1049593

CATALOG NUMBER: GALN-SA7A-730-U-LBC

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
96.7	0°	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
90.0	2.5°	88.3	88.3	85.0	81.7	80.0	76.7	75.0	73.3	71.7	70.0
96.7	5°	93.3	91.7	86.7	81.7	76.7	71.7	68.3	65.0	61.7	60.0
106.7	7.5°	101.7	98.3	88.3	80.0	73.3	66.7	63.3	58.3	55.0	50.0
118.3	10°	111.7	105.0	91.7	81.7	71.7	63.3	58.3	53.3	48.3	41.7
135.0	12.5°	125.0	113.3	96.7	80.0	68.3	58.3	53.3	46.7	41.7	36.7
156.6	15°	136.6	121.6	98.3	80.0	65.0	53.3	46.7	40.0	35.0	28.3
196.6	17.5°	153.3	128.3	96.7	75.0	60.0	46.7	40.0	35.0	26.7	16.7
291.6	20°	181.6	133.3	93.3	70.0	51.7	38.3	30.0	23.3	11.7	3.3
438.3	22.5°	226.6	146.6	90.0	63.3	45.0	30.0	20.0	8.3	0.0	0.0
666.6	25°	313.3	170.0	90.0	60.0	40.0	21.7	6.7	0.0	0.0	0.0
946.5	27.5°	416.6	201.6	90.0	51.7	31.7	11.7	0.0	0.0	0.0	0.0
1289.8	30°	521.6	236.6	90.0	45.0	25.0	1.7	0.0	0.0	0.0	0.0
1588.1	32.5°	621.6	266.6	91.7	38.3	16.7	0.0	0.0	0.0	0.0	0.0
2001.4	35°	723.2	271.6	90.0	33.3	10.0	0.0	0.0	0.0	0.0	0.0
2508.0	37.5°	853.2	261.6	85.0	30.0	5.0	0.0	0.0	0.0	0.0	0.0
3299.5	40°	1049.8	266.6	80.0	28.3	1.7	0.0	0.0	0.0	0.0	0.0
4711.0	42.5°	1413.1	288.3	73.3	28.3	0.0	0.0	0.0	0.0	0.0	0.0
7503.9	45°	2443.0	386.6	66.7	30.0	0.0	0.0	0.0	0.0	0.0	0.0
11265.0	47.5°	4041.1	694.9	65.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0
13569.7	50°	5157.6	874.9	68.3	31.7	0.0	0.0	0.0	0.0	0.0	0.0
13858.0	52.5°	5149.2	974.9	71.7	33.3	6.7	0.0	0.0	0.0	0.0	0.0
12773.1	55°	4577.7	993.2	76.7	36.7	21.7	0.0	0.0	0.0	0.0	0.0
10976.7	57.5°	3826.1	906.5	88.3	45.0	40.0	0.0	0.0	0.0	0.0	0.0
10695.1	58°	3692.8	866.5	91.7	46.7	43.3	0.0	0.0	0.0	0.0	0.0
9277.0	60°	3026.2	706.6	116.6	58.3	58.3	0.0	0.0	0.0	0.0	0.0
7605.6	62.5°	2089.7	616.6	133.3	75.0	60.0	0.0	0.0	0.0	0.0	0.0
5607.5	65°	1478.1	556.6	145.0	80.0	48.3	0.0	0.0	0.0	0.0	0.0
3984.4	67.5°	1104.8	513.3	160.0	81.7	25.0	0.0	0.0	0.0	0.0	0.0
2499.6	70°	846.5	481.6	196.6	86.7	6.7	0.0	0.0	0.0	0.0	0.0
1489.8	72.5°	689.9	444.9	238.3	90.0	0.0	0.0	0.0	0.0	0.0	0.0
893.2	75°	571.6	401.6	230.0	98.3	0.0	0.0	0.0	0.0	0.0	0.0
476.6	77.5°	379.9	311.6	210.0	98.3	0.0	0.0	0.0	0.0	0.0	0.0
170.0	80°	133.3	123.3	163.3	86.7	0.0	0.0	0.0	0.0	0.0	0.0
35.0	82.5°	20.0	16.7	23.3	30.0	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	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: P1049593

CATALOG NUMBER: GALN-SA7A-730-U-LBC

CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
96.7	0°	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
68.3	2.5°	68.3	68.3	66.7	68.3	68.3	71.7	80.0	91.7	105.0	110.0
58.3	5°	56.7	55.0	53.3	53.3	53.3	58.3	65.0	78.3	93.3	100.0
48.3	7.5°	46.7	45.0	43.3	41.7	41.7	45.0	53.3	68.3	83.3	90.0
40.0	10°	38.3	35.0	33.3	31.7	31.7	35.0	43.3	58.3	75.0	81.7
33.3	12.5°	31.7	26.7	23.3	21.7	20.0	25.0	33.3	46.7	65.0	73.3
25.0	15°	21.7	16.7	11.7	10.0	8.3	13.3	21.7	36.7	55.0	65.0
13.3	17.5°	11.7	5.0	1.7	0.0	0.0	3.3	10.0	26.7	45.0	53.3
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3	33.3	41.7
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	20.0	28.3
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	15.0
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
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	5.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	13.3
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: P1049593

CATALOG NUMBER: GALN-SA7A-730-U-LBC

CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
96.7	0°	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
115.0	2.5°	118.3	116.6	113.3	110.0	110.0	110.0	115.0	120.0	125.0	125.0
103.3	5°	110.0	110.0	108.3	105.0	105.0	106.7	113.3	121.6	128.3	130.0
95.0	7.5°	101.7	105.0	101.7	100.0	101.7	103.3	110.0	120.0	130.0	133.3
88.3	10°	96.7	98.3	98.3	96.7	96.7	100.0	106.7	120.0	133.3	138.3
80.0	12.5°	90.0	93.3	91.7	91.7	91.7	95.0	103.3	118.3	136.6	143.3
71.7	15°	83.3	88.3	88.3	86.7	86.7	88.3	100.0	116.6	141.6	153.3
61.7	17.5°	76.7	81.7	83.3	80.0	80.0	83.3	95.0	116.6	145.0	165.0
50.0	20°	63.3	71.7	76.7	71.7	71.7	75.0	86.7	110.0	146.6	176.6
36.7	22.5°	50.0	58.3	65.0	63.3	63.3	65.0	80.0	105.0	148.3	196.6
21.7	25°	36.7	45.0	50.0	53.3	53.3	58.3	73.3	101.7	155.0	238.3
10.0	27.5°	21.7	31.7	38.3	41.7	43.3	50.0	68.3	98.3	166.6	298.3
0.0	30°	10.0	18.3	26.7	33.3	33.3	45.0	63.3	95.0	181.6	384.9
0.0	32.5°	0.0	8.3	13.3	23.3	25.0	36.7	58.3	91.7	203.3	468.3
0.0	35°	0.0	0.0	6.7	18.3	18.3	30.0	53.3	88.3	236.6	531.6
0.0	37.5°	0.0	0.0	0.0	13.3	15.0	26.7	51.7	86.7	243.3	536.6
0.0	40°	0.0	0.0	0.0	10.0	11.7	25.0	51.7	88.3	220.0	524.9
0.0	42.5°	0.0	0.0	0.0	6.7	8.3	25.0	51.7	91.7	198.3	538.3
0.0	45°	0.0	0.0	0.0	5.0	6.7	26.7	50.0	90.0	186.6	608.2
0.0	47.5°	0.0	0.0	0.0	6.7	10.0	26.7	48.3	88.3	188.3	839.9
0.0	50°	0.0	0.0	0.0	8.3	11.7	26.7	50.0	85.0	206.6	1291.5
0.0	52.5°	0.0	0.0	0.0	6.7	10.0	30.0	55.0	83.3	225.0	1679.8
0.0	55°	0.0	0.0	0.0	1.7	5.0	38.3	60.0	83.3	253.3	1776.4
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	43.3	68.3	88.3	300.0	1738.1
0.0	58°	0.0	0.0	0.0	0.0	0.0	43.3	70.0	88.3	303.3	1704.8
0.0	60°	0.0	0.0	0.0	0.0	0.0	43.3	76.7	98.3	326.6	1518.1
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	36.7	91.7	123.3	340.0	1193.2
0.0	65°	0.0	0.0	0.0	0.0	0.0	30.0	108.3	135.0	349.9	949.9
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	28.3	111.7	136.6	354.9	756.6
0.0	70°	0.0	0.0	0.0	0.0	0.0	30.0	110.0	146.6	371.6	614.9
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	33.3	100.0	161.6	371.6	544.9
0.0	75°	0.0	0.0	0.0	0.0	0.0	35.0	93.3	181.6	338.3	471.6
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	33.3	91.7	211.6	301.6	388.3
0.0	80°	3.3	5.0	5.0	3.3	3.3	28.3	90.0	215.0	256.6	266.6
1.7	82.5°	10.0	13.3	11.7	8.3	8.3	25.0	80.0	180.0	133.3	115.0
10.0	85°	18.3	21.7	21.7	18.3	18.3	23.3	50.0	65.0	45.0	36.7
18.3	87.5°	25.0	28.3	28.3	25.0	25.0	23.3	21.7	20.0	18.3	18.3
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: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

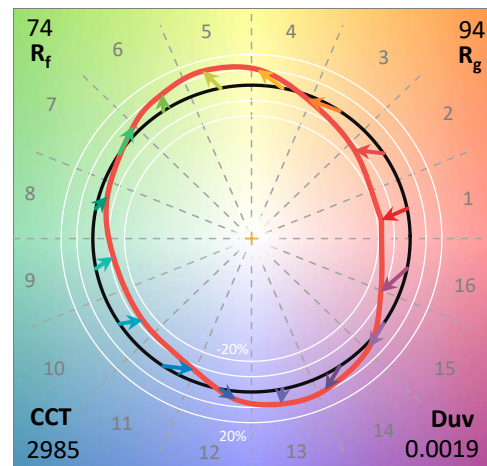
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-4
 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-730-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K):	2985	CRI (Ra):	70.8		
CIE u':	0.2504	R1:	66.3	R9:	-43.2
CIE v':	0.5243	R2:	80.6	R10:	57.6
Duv:	0.0019	R3:	94.5	R11:	64.8
CIE x:	0.4408	R4:	68.2	R12:	53.5
CIE y:	0.4101	R5:	66.5	R13:	68.7
CIE z:	0.1491	R6:	74.7	R14:	97.0
Peak Wavelength (nm):	595	R7:	76.2	R15:	56.4
Dominant Wavelength (nm):	582	R8:	39.6		
Purity:	55.41818				
Rf:	73.8				
Rg:	94.4				



Test Conditions

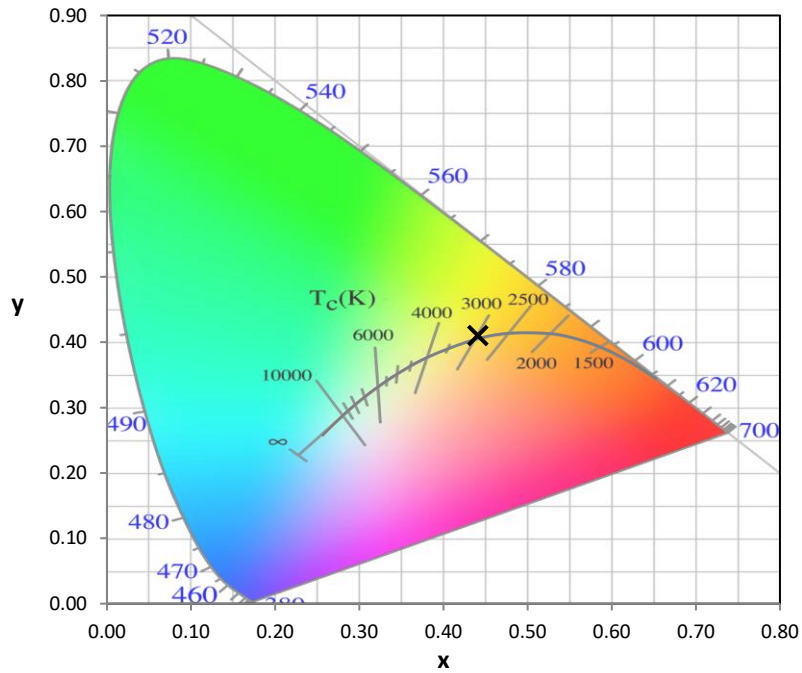
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

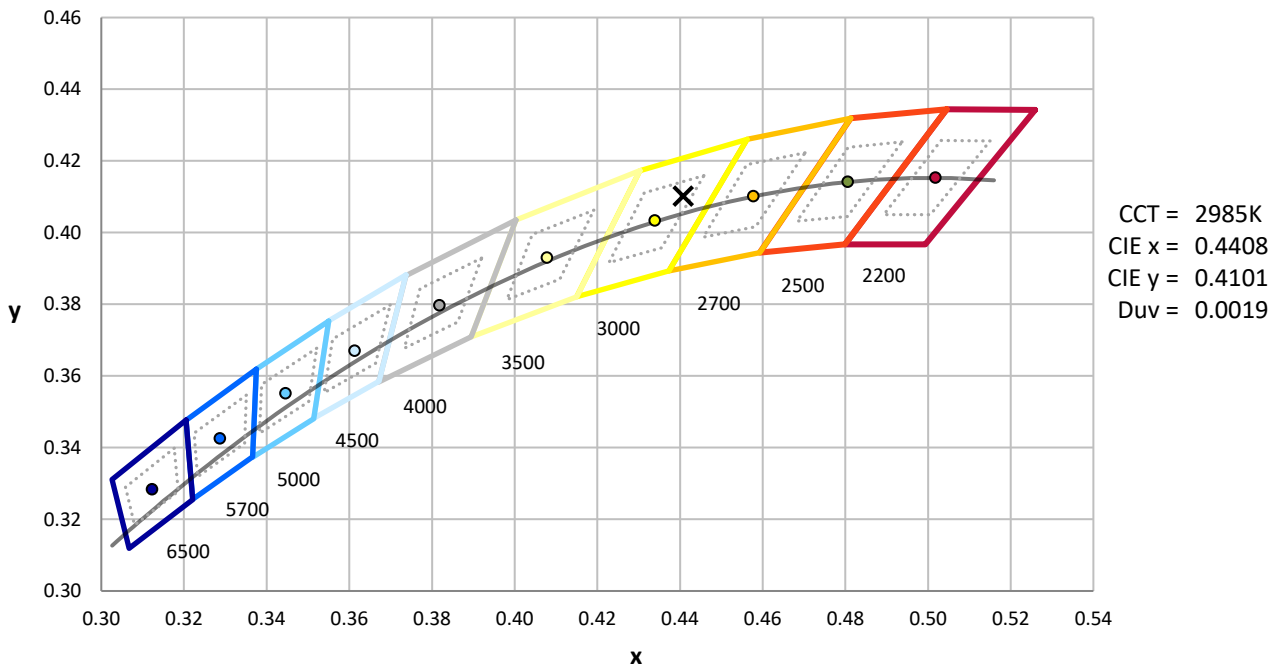
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-4

CIE 1931 Chromaticity Diagram



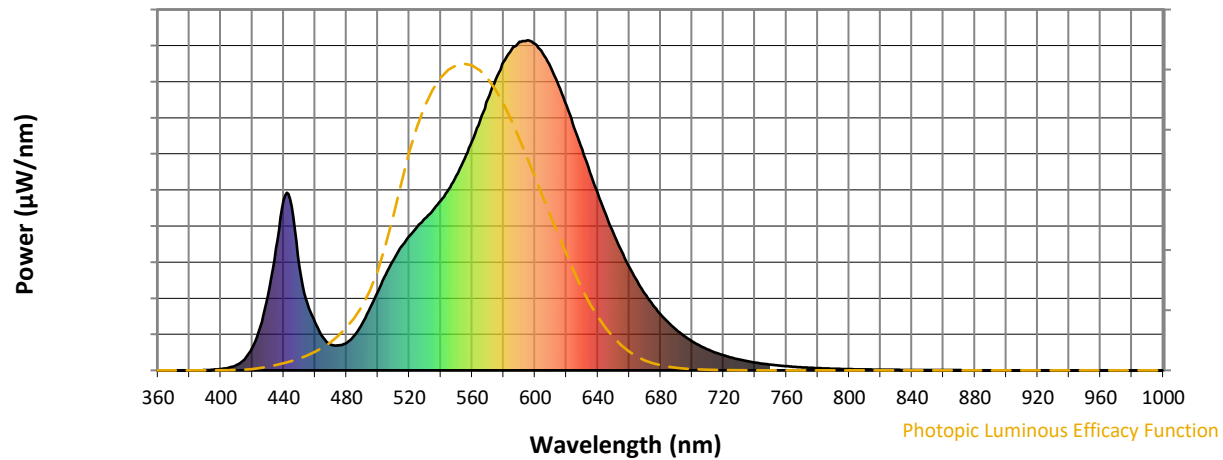
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

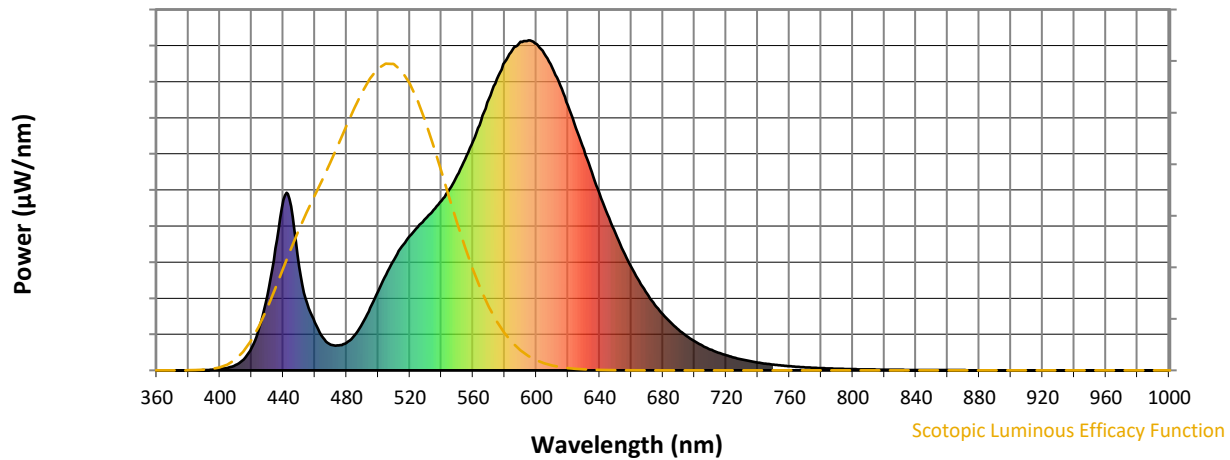


Photopic Lumens: NR

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Scotopic Flux vs. Wavelength



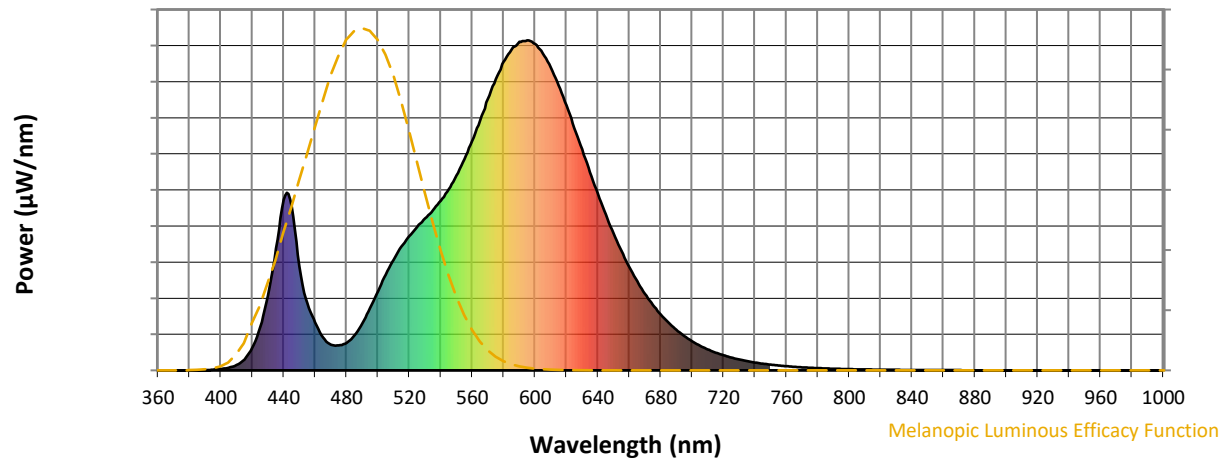
Scotopic Lumens: NR

S/P: 1.19

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.13

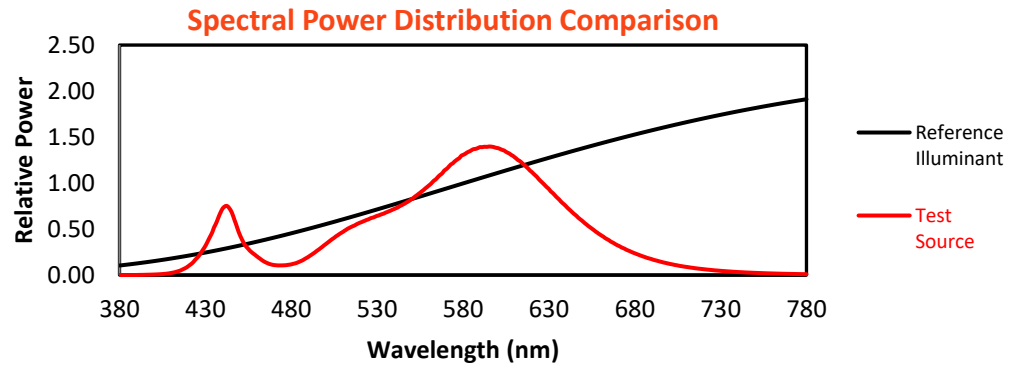
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

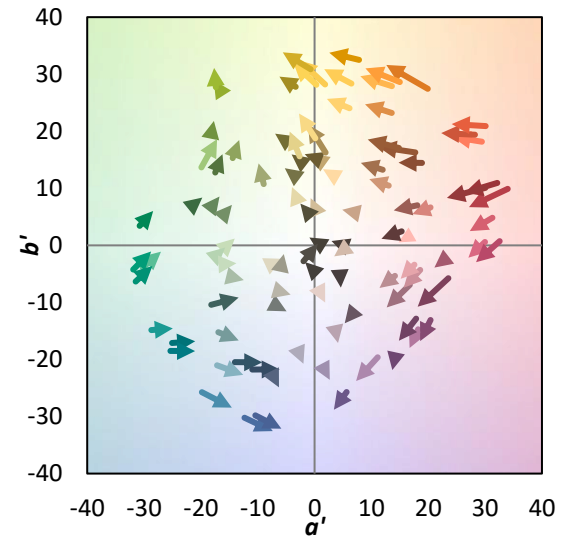
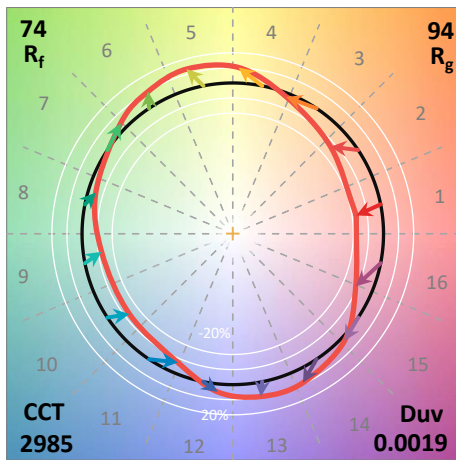
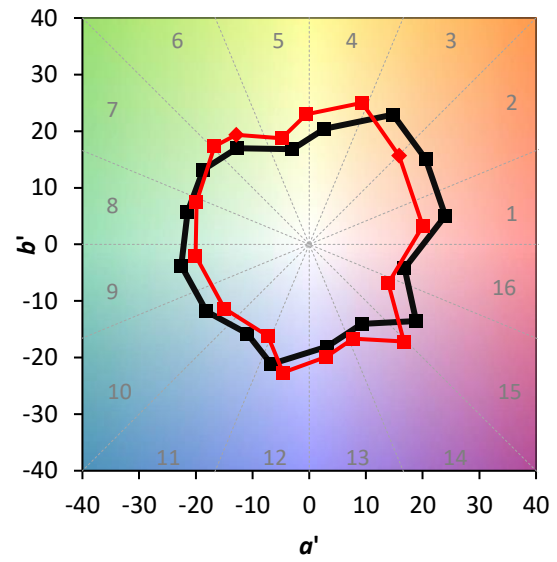
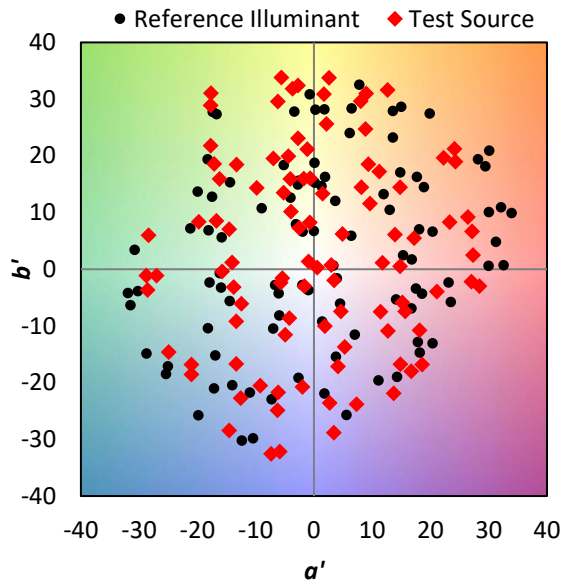
TM-30-18

Summary

$R_f = 73.8$
 $R_g = 94.4$
 $CIE R_a = 70.8$
 $R_g = -43.2$

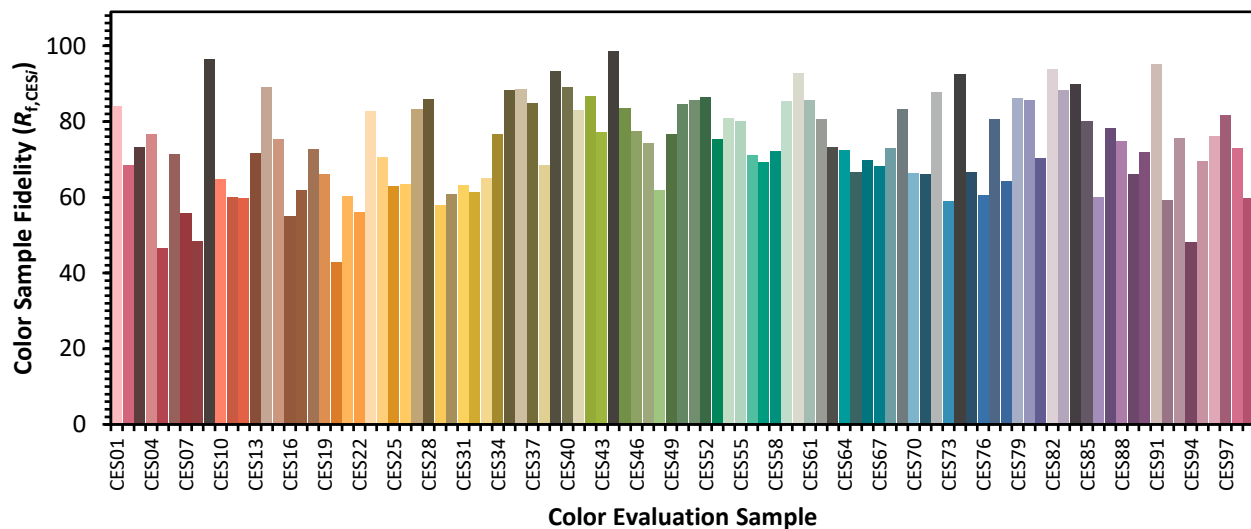


Color Vector Graphics

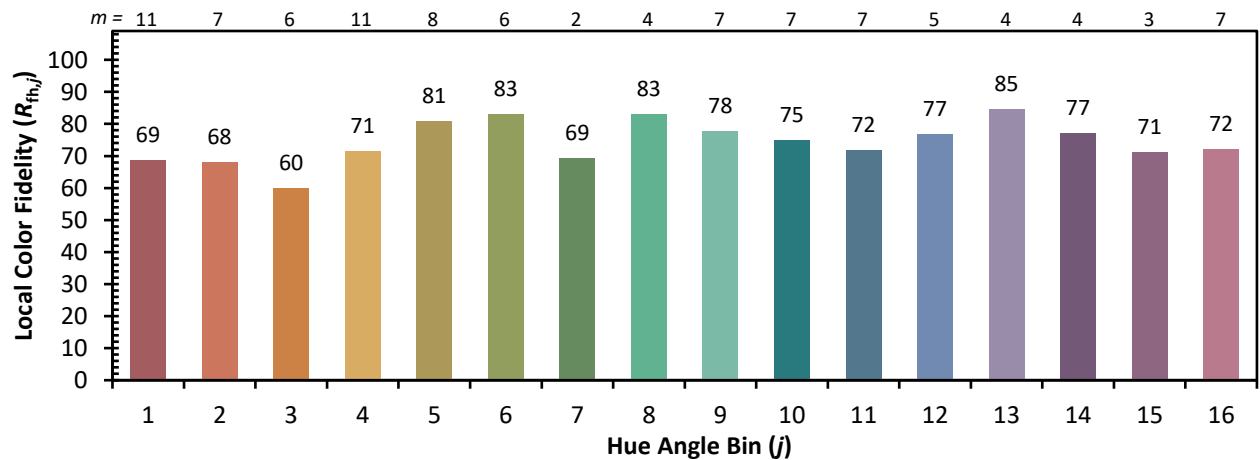
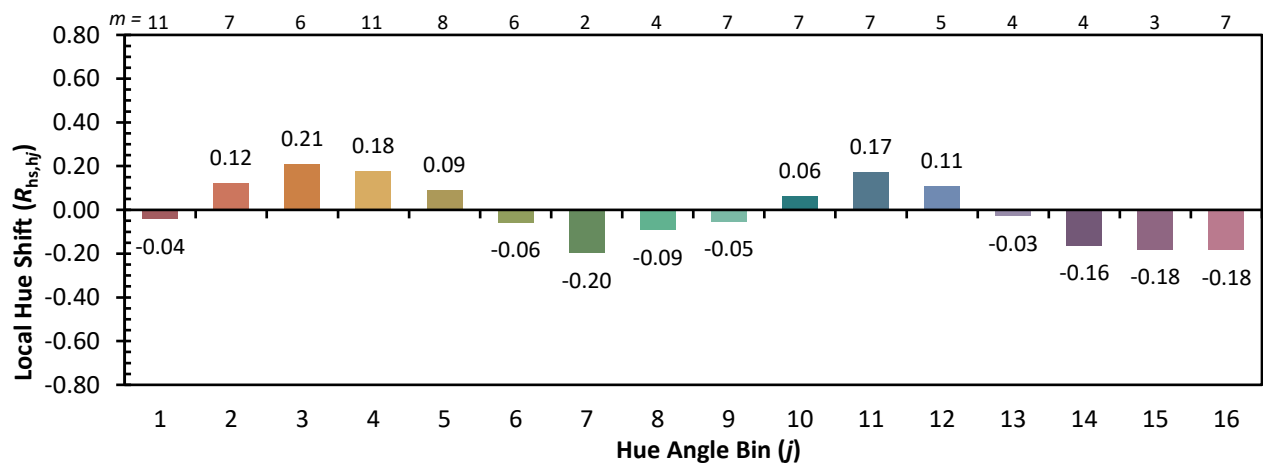
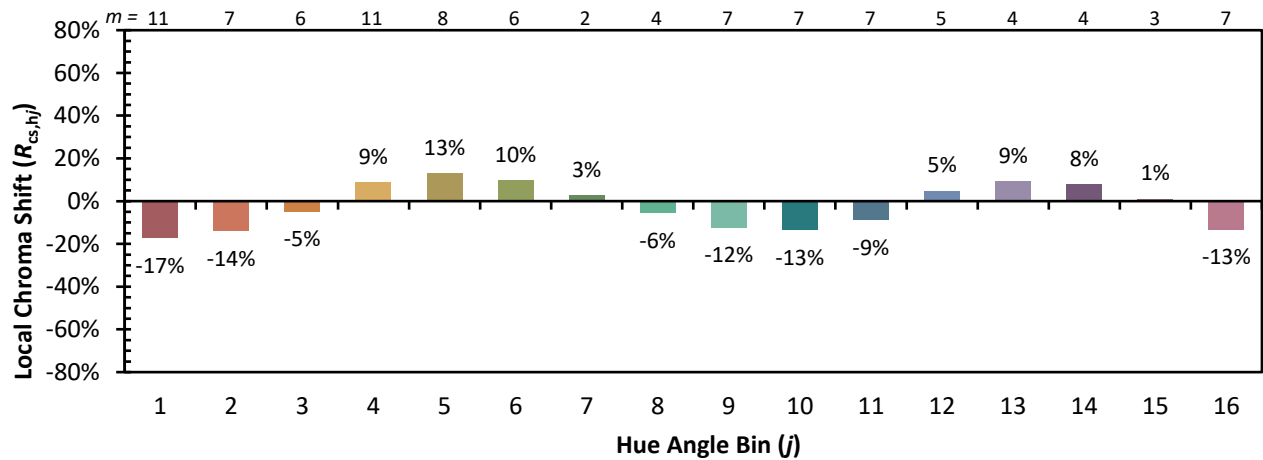


Individual Sample Fidelity Index ($R_{f,i}$)

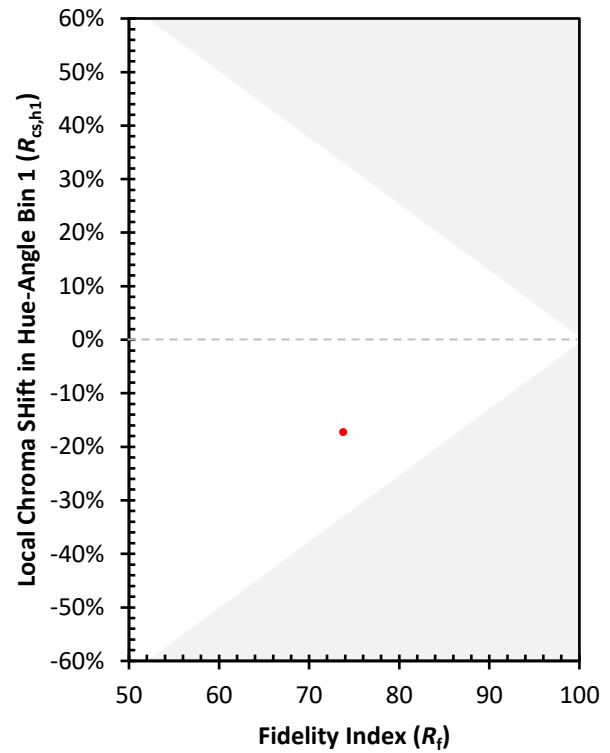
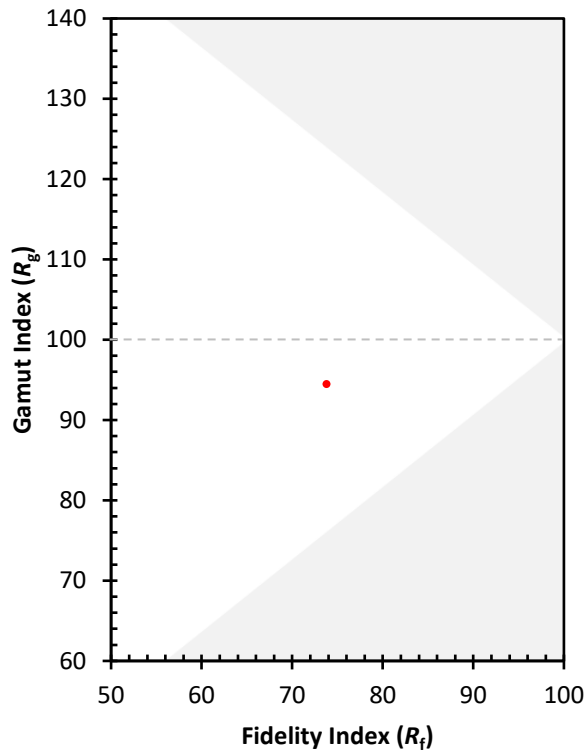
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 94
CES08 = 40	CES33 = 65	CES58 = 72	CES83 = 88
CES09 = 29	CES34 = 77	CES59 = 85	CES84 = 90
CES10 = 76	CES35 = 88	CES60 = 93	CES85 = 80
CES11 = 59	CES36 = 89	CES61 = 86	CES86 = 60
CES12 = 65	CES37 = 85	CES62 = 81	CES87 = 78
CES13 = 43	CES38 = 69	CES63 = 73	CES88 = 75
CES14 = 74	CES39 = 93	CES64 = 72	CES89 = 66
CES15 = 71	CES40 = 89	CES65 = 67	CES90 = 72
CES16 = 47	CES41 = 83	CES66 = 70	CES91 = 95
CES17 = 50	CES42 = 87	CES67 = 68	CES92 = 59
CES18 = 56	CES43 = 77	CES68 = 73	CES93 = 76
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 66	CES45 = 83	CES70 = 66	CES95 = 70
CES21 = 87	CES46 = 77	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 74	CES72 = 88	CES97 = 82
CES23 = 92	CES48 = 62	CES73 = 59	CES98 = 73
CES24 = 91	CES49 = 77	CES74 = 93	CES99 = 60
CES25 = 73	CES50 = 85	CES75 = 67	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)