

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: STREETWORKS

Report Number: P1065566

Luminaire Tested: **GLAN-SA1B-930-U-LBC**

Issue Date: 08/07/2025



Test Information

Test Method: LM-79-08
Report Number: P1065566
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1B-930-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 1xLight Square PACKAGE
90CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

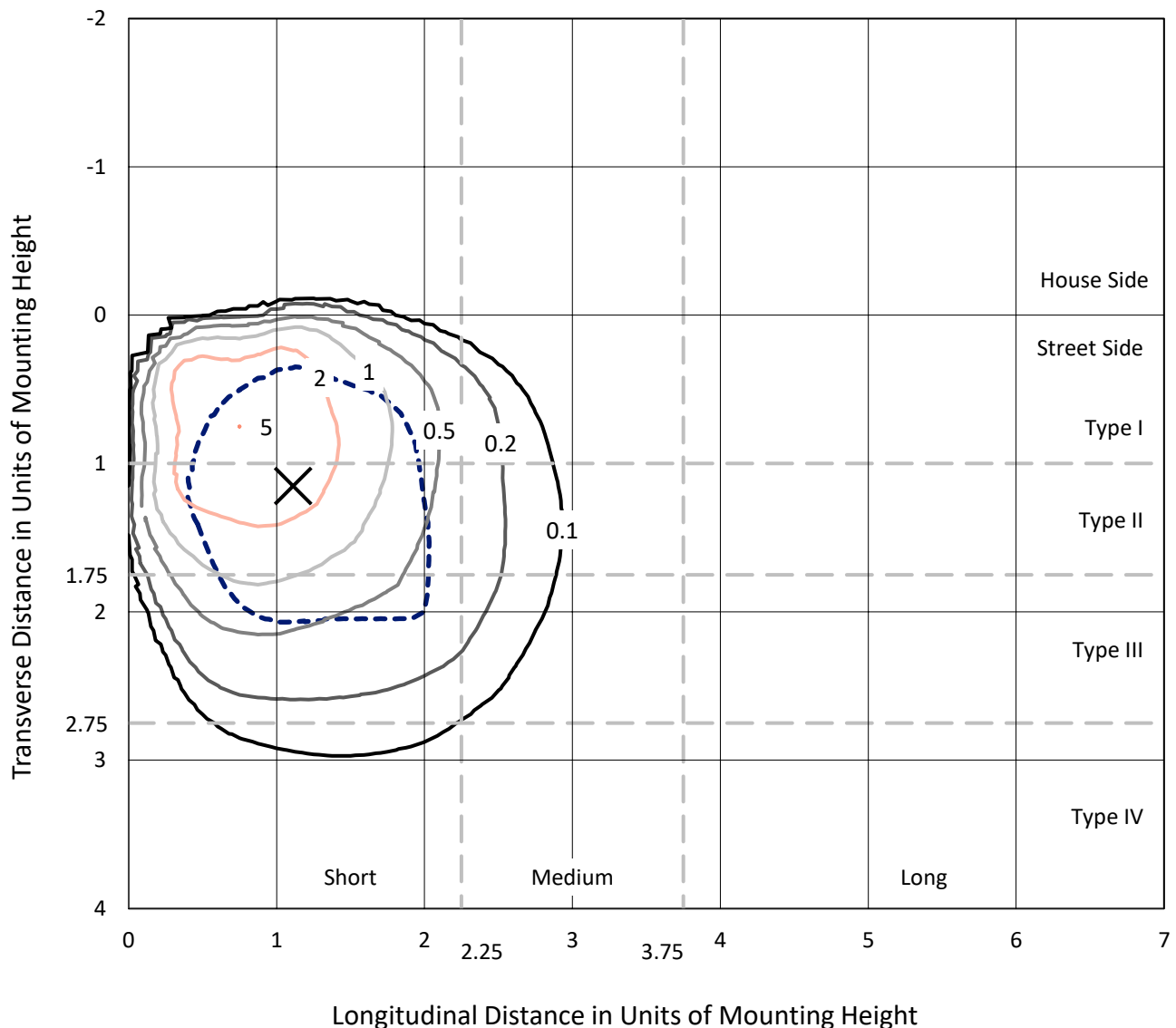
Lumens per Lamp: N/A
Luminaire Lumens: 2874 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 38.7
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: P1065566
 CATALOG NUMBER: GLAN-SA1B-930-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

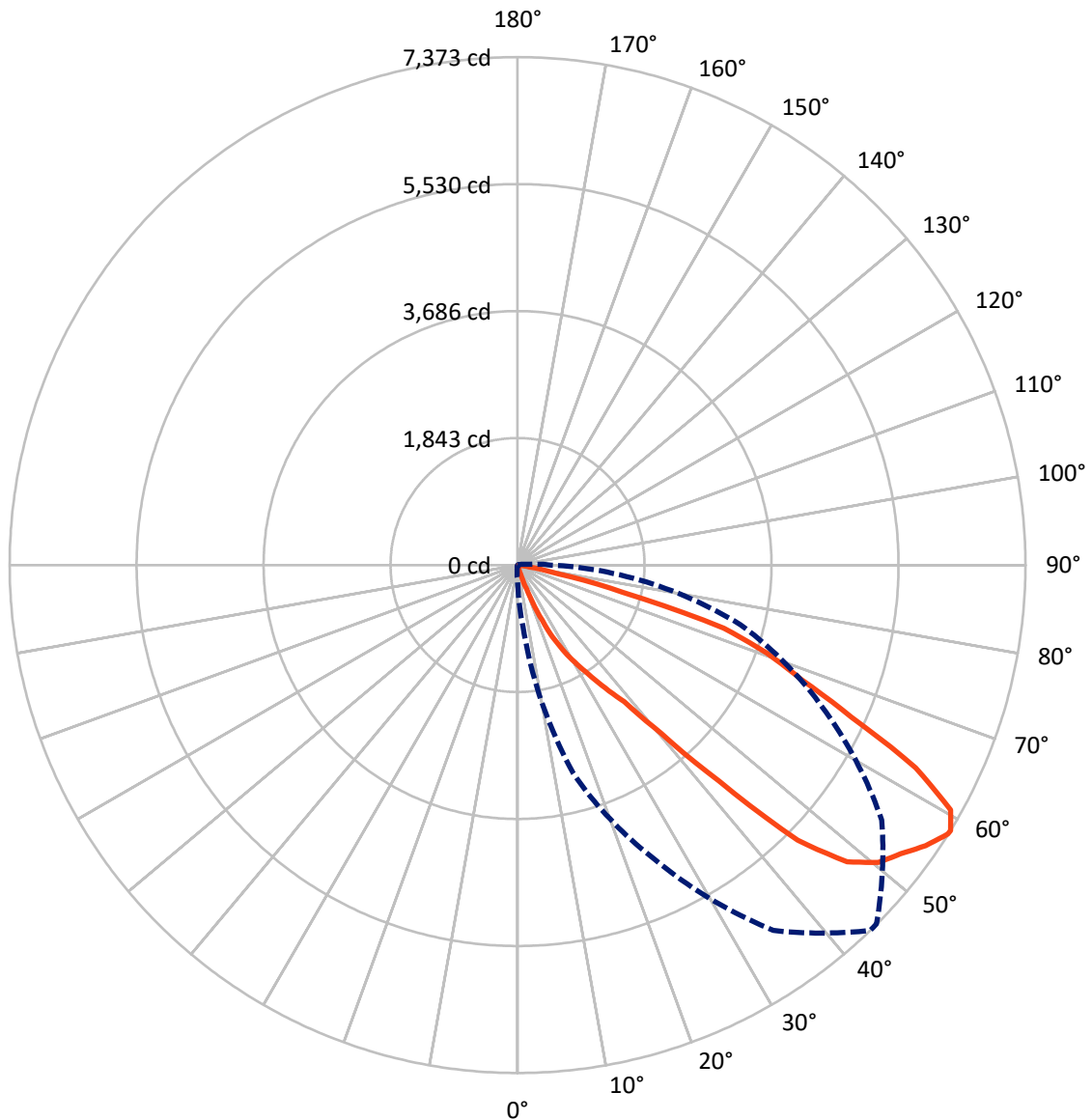
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - N/A

REPORT NUMBER: P1065566
CATALOG NUMBER: GLAN-SA1B-930-U-LBC

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

REPORT NUMBER: P1065566

CATALOG NUMBER: GLAN-SA1B-930-U-LBC

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19.6	0.0	19.6
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	2854.3	0.0	2854.3
	% Fixture	99.3	0.0	99.3
Total	Lumens	2874.0	0.0	2874.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.0
10°-20°	6.3	0.2
20°-30°	68.1	2.4
30°-40°	201.3	7.0
40°-50°	600.1	20.9
50°-60°	952.3	33.1
60°-70°	794.3	27.6
70°-80°	245.0	8.5
80°-90°	5.4	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°	2874.0	100.0
0°-180°	2874.0	100.0



REPORT NUMBER: P1065566

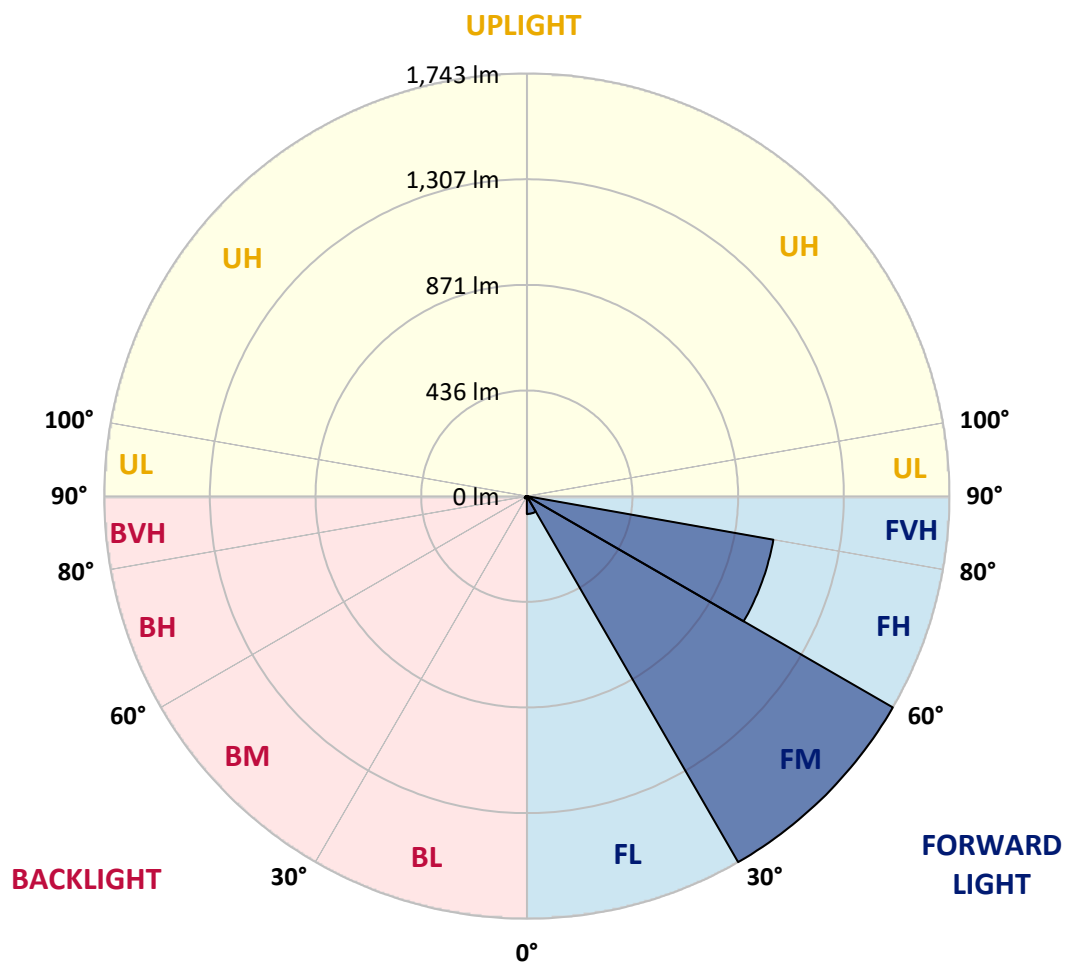
CATALOG NUMBER: GLAN-SA1B-930-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	73.6	2.6			
FM	(30°-60°)	1743.0	60.6			
FH	(60°-80°)	1032.6	35.9			G1/1800
FVH	(80°-90°)	5.2	0.2			G0/10
BL	(0°-30°)	1.9	0.1	B0/110		
BM	(30°-60°)	10.7	0.4	B0/220		
BH	(60°-80°)	6.7	0.2	B0/110		G0/110
BVH	(80°-90°)	0.3	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-G1

Type III Short



REPORT NUMBER: P1065566

CATALOG NUMBER: GLAN-SA1B-930-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
2.5°	16.3	16.3	15.6	14.8	13.9	13.0	12.8	12.4	12.2	11.9
5°	16.9	16.9	16.7	16.1	15.2	14.5	14.5	13.9	13.5	13.0
7.5°	17.4	17.6	18.0	17.8	17.4	16.7	16.7	16.3	15.6	14.5
10°	18.0	18.7	19.5	20.0	20.2	20.2	20.0	19.8	18.7	17.2
12.5°	18.7	20.0	22.1	24.3	25.6	27.4	27.1	26.7	23.9	20.6
15°	20.0	21.9	26.5	32.8	42.6	48.6	51.0	48.8	39.5	27.8
17.5°	21.5	24.7	38.4	68.6	112.5	133.3	145.9	135.7	89.9	52.8
20°	23.0	30.2	71.4	177.8	291.8	360.0	378.8	349.3	224.3	100.5
22.5°	25.6	42.3	144.8	367.6	628.7	731.0	750.3	655.9	423.6	198.4
25°	31.0	61.4	249.7	599.0	938.3	1110.9	1102.9	979.1	687.1	317.0
27.5°	38.9	89.4	377.5	851.0	1234.9	1387.1	1405.3	1252.2	916.0	466.1
30°	50.2	124.0	514.8	1052.9	1472.6	1637.2	1640.2	1481.9	1120.7	597.0
32.5°	61.0	156.5	634.8	1248.1	1706.9	1887.3	1900.7	1706.0	1273.5	733.4
35°	69.3	177.8	756.4	1419.6	1943.1	2191.7	2190.8	1959.6	1454.6	855.2
37.5°	69.9	199.1	866.5	1595.1	2242.2	2520.6	2548.1	2293.3	1673.4	1005.8
40°	68.4	223.0	1005.8	1868.6	2781.3	3208.3	3232.7	2911.4	2112.4	1263.8
42.5°	70.1	264.4	1232.1	2373.8	3676.4	4289.7	4336.6	3998.8	2919.4	1790.0
45°	79.2	342.4	1706.0	3219.0	4952.3	5700.0	5684.4	5197.9	3858.4	2591.1
47.5°	109.4	533.2	2408.5	4041.6	5767.8	6433.6	6447.1	5852.4	4406.3	3207.0
50°	168.3	815.9	2998.8	4476.4	6118.4	6786.4	6773.8	6086.7	4614.5	3510.3
52.5°	218.8	1020.4	3295.0	4629.1	6163.3	6960.8	6959.9	6148.4	4646.9	3536.4
55°	231.4	1035.8	3297.4	4637.3	6264.1	7188.9	7217.6	6300.1	4688.8	3422.6
57.5°	226.4	917.0	3159.7	4685.1	6443.4	7365.4	7367.0	6447.1	4795.2	3352.9
58°	222.1	898.4	3131.9	4712.2	6474.2	7372.8	7369.1	6453.8	4881.8	3350.3
60°	197.8	780.1	3023.6	4781.5	6428.4	7221.3	7186.8	6306.8	4869.0	3323.6
62.5°	155.4	608.5	2917.0	4701.4	5937.3	6487.7	6502.0	5583.7	4438.7	3168.0
65°	123.7	453.5	2694.7	4123.9	4889.2	5327.7	5381.1	4540.5	3704.9	2682.5
67.5°	98.6	327.8	2260.5	3283.2	3868.8	4446.5	4485.3	3812.1	2870.3	2055.3
70°	80.1	221.7	1560.3	2401.2	3191.0	3840.6	3842.9	3166.9	2142.4	1346.7
72.5°	71.0	153.5	905.8	1751.2	2587.4	3129.5	3066.4	2569.8	1646.5	797.6
75°	61.4	101.8	444.2	1070.5	1568.8	1579.4	1603.5	1192.1	823.0	379.3
77.5°	50.6	72.3	175.0	292.4	470.5	602.2	624.6	473.3	273.8	93.4
80°	34.7	34.3	47.1	89.7	134.6	168.7	157.4	121.8	71.6	35.8
82.5°	15.0	16.3	21.3	25.6	20.8	20.2	19.3	12.4	9.6	7.4
85°	4.8	4.3	4.6	4.6	3.7	2.8	2.8	1.3	0.0	0.0
87.5°	2.4	2.0	2.0	1.7	1.1	0.4	0.2	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: P1065566

CATALOG NUMBER: GLAN-SA1B-930-U-LBC

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
12.6	0°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
11.7	2.5°	11.5	11.5	11.1	10.6	10.4	10.0	9.8	9.6	9.3	9.1
12.6	5°	12.2	11.9	11.3	10.6	10.0	9.3	8.9	8.5	8.0	7.8
13.9	7.5°	13.2	12.8	11.5	10.4	9.6	8.7	8.2	7.6	7.2	6.5
15.4	10°	14.5	13.7	11.9	10.6	9.3	8.2	7.6	6.9	6.3	5.4
17.6	12.5°	16.3	14.8	12.6	10.4	8.9	7.6	6.9	6.1	5.4	4.8
20.4	15°	17.8	15.8	12.8	10.4	8.5	6.9	6.1	5.2	4.6	3.7
25.6	17.5°	20.0	16.7	12.6	9.8	7.8	6.1	5.2	4.6	3.5	2.2
38.0	20°	23.7	17.4	12.2	9.1	6.7	5.0	3.9	3.0	1.5	0.4
57.1	22.5°	29.5	19.1	11.7	8.2	5.9	3.9	2.6	1.1	0.0	0.0
86.8	25°	40.8	22.1	11.7	7.8	5.2	2.8	0.9	0.0	0.0	0.0
123.3	27.5°	54.3	26.3	11.7	6.7	4.1	1.5	0.0	0.0	0.0	0.0
168.0	30°	68.0	30.8	11.7	5.9	3.3	0.2	0.0	0.0	0.0	0.0
206.9	32.5°	81.0	34.7	11.9	5.0	2.2	0.0	0.0	0.0	0.0	0.0
260.7	35°	94.2	35.4	11.7	4.3	1.3	0.0	0.0	0.0	0.0	0.0
326.7	37.5°	111.2	34.1	11.1	3.9	0.7	0.0	0.0	0.0	0.0	0.0
429.9	40°	136.8	34.7	10.4	3.7	0.2	0.0	0.0	0.0	0.0	0.0
613.7	42.5°	184.1	37.6	9.6	3.7	0.0	0.0	0.0	0.0	0.0	0.0
977.6	45°	318.3	50.4	8.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0
1467.6	47.5°	526.5	90.5	8.5	3.9	0.0	0.0	0.0	0.0	0.0	0.0
1767.9	50°	671.9	114.0	8.9	4.1	0.0	0.0	0.0	0.0	0.0	0.0
1805.4	52.5°	670.8	127.0	9.3	4.3	0.9	0.0	0.0	0.0	0.0	0.0
1664.1	55°	596.4	129.4	10.0	4.8	2.8	0.0	0.0	0.0	0.0	0.0
1430.1	57.5°	498.5	118.1	11.5	5.9	5.2	0.0	0.0	0.0	0.0	0.0
1393.4	58°	481.1	112.9	11.9	6.1	5.6	0.0	0.0	0.0	0.0	0.0
1208.6	60°	394.3	92.1	15.2	7.6	7.6	0.0	0.0	0.0	0.0	0.0
990.9	62.5°	272.2	80.3	17.4	9.8	7.8	0.0	0.0	0.0	0.0	0.0
730.6	65°	192.6	72.5	18.9	10.4	6.3	0.0	0.0	0.0	0.0	0.0
519.1	67.5°	143.9	66.9	20.8	10.6	3.3	0.0	0.0	0.0	0.0	0.0
325.7	70°	110.3	62.7	25.6	11.3	0.9	0.0	0.0	0.0	0.0	0.0
194.1	72.5°	89.9	58.0	31.0	11.7	0.0	0.0	0.0	0.0	0.0	0.0
116.4	75°	74.5	52.3	30.0	12.8	0.0	0.0	0.0	0.0	0.0	0.0
62.1	77.5°	49.5	40.6	27.4	12.8	0.0	0.0	0.0	0.0	0.0	0.0
22.1	80°	17.4	16.1	21.3	11.3	0.0	0.0	0.0	0.0	0.0	0.0
4.6	82.5°	2.6	2.2	3.0	3.9	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: P1065566

CATALOG NUMBER: GLAN-SA1B-930-U-LBC

CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
12.6	0°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
8.9	2.5°	8.9	8.9	8.7	8.9	8.9	9.3	10.4	11.9	13.7	14.3
7.6	5°	7.4	7.2	6.9	6.9	6.9	7.6	8.5	10.2	12.2	13.0
6.3	7.5°	6.1	5.9	5.6	5.4	5.4	5.9	6.9	8.9	10.9	11.7
5.2	10°	5.0	4.6	4.3	4.1	4.1	4.6	5.6	7.6	9.8	10.6
4.3	12.5°	4.1	3.5	3.0	2.8	2.6	3.3	4.3	6.1	8.5	9.6
3.3	15°	2.8	2.2	1.5	1.3	1.1	1.7	2.8	4.8	7.2	8.5
1.7	17.5°	1.5	0.7	0.2	0.0	0.0	0.4	1.3	3.5	5.9	6.9
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	4.3	5.4
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.6	3.7
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.0
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
0.0	30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.7
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: P1065566

CATALOG NUMBER: GLAN-SA1B-930-U-LBC

CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
12.6	0°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
15.0	2.5°	15.4	15.2	14.8	14.3	14.3	14.3	15.0	15.6	16.3	16.3
13.5	5°	14.3	14.3	14.1	13.7	13.7	13.9	14.8	15.8	16.7	16.9
12.4	7.5°	13.2	13.7	13.2	13.0	13.2	13.5	14.3	15.6	16.9	17.4
11.5	10°	12.6	12.8	12.8	12.6	12.6	13.0	13.9	15.6	17.4	18.0
10.4	12.5°	11.7	12.2	11.9	11.9	11.9	12.4	13.5	15.4	17.8	18.7
9.3	15°	10.9	11.5	11.5	11.3	11.3	11.5	13.0	15.2	18.5	20.0
8.0	17.5°	10.0	10.6	10.9	10.4	10.4	10.9	12.4	15.2	18.9	21.5
6.5	20°	8.2	9.3	10.0	9.3	9.3	9.8	11.3	14.3	19.1	23.0
4.8	22.5°	6.5	7.6	8.5	8.2	8.2	8.5	10.4	13.7	19.3	25.6
2.8	25°	4.8	5.9	6.5	6.9	6.9	7.6	9.6	13.2	20.2	31.0
1.3	27.5°	2.8	4.1	5.0	5.4	5.6	6.5	8.9	12.8	21.7	38.9
0.0	30°	1.3	2.4	3.5	4.3	4.3	5.9	8.2	12.4	23.7	50.2
0.0	32.5°	0.0	1.1	1.7	3.0	3.3	4.8	7.6	11.9	26.5	61.0
0.0	35°	0.0	0.0	0.9	2.4	2.4	3.9	6.9	11.5	30.8	69.3
0.0	37.5°	0.0	0.0	0.0	1.7	2.0	3.5	6.7	11.3	31.7	69.9
0.0	40°	0.0	0.0	0.0	1.3	1.5	3.3	6.7	11.5	28.7	68.4
0.0	42.5°	0.0	0.0	0.0	0.9	1.1	3.3	6.7	11.9	25.8	70.1
0.0	45°	0.0	0.0	0.0	0.7	0.9	3.5	6.5	11.7	24.3	79.2
0.0	47.5°	0.0	0.0	0.0	0.9	1.3	3.5	6.3	11.5	24.5	109.4
0.0	50°	0.0	0.0	0.0	1.1	1.5	3.5	6.5	11.1	26.9	168.3
0.0	52.5°	0.0	0.0	0.0	0.9	1.3	3.9	7.2	10.9	29.3	218.8
0.0	55°	0.0	0.0	0.0	0.2	0.7	5.0	7.8	10.9	33.0	231.4
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	5.6	8.9	11.5	39.1	226.4
0.0	58°	0.0	0.0	0.0	0.0	0.0	5.6	9.1	11.5	39.5	222.1
0.0	60°	0.0	0.0	0.0	0.0	0.0	5.6	10.0	12.8	42.6	197.8
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	4.8	11.9	16.1	44.3	155.4
0.0	65°	0.0	0.0	0.0	0.0	0.0	3.9	14.1	17.6	45.6	123.7
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	3.7	14.5	17.8	46.2	98.6
0.0	70°	0.0	0.0	0.0	0.0	0.0	3.9	14.3	19.1	48.4	80.1
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	4.3	13.0	21.1	48.4	71.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	4.6	12.2	23.7	44.1	61.4
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	4.3	11.9	27.6	39.3	50.6
0.0	80°	0.4	0.7	0.7	0.4	0.4	3.7	11.7	28.0	33.4	34.7
0.2	82.5°	1.3	1.7	1.5	1.1	1.1	3.3	10.4	23.4	17.4	15.0
1.3	85°	2.4	2.8	2.8	2.4	2.4	3.0	6.5	8.5	5.9	4.8
2.4	87.5°	3.3	3.7	3.7	3.3	3.3	3.0	2.8	2.6	2.4	2.4
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

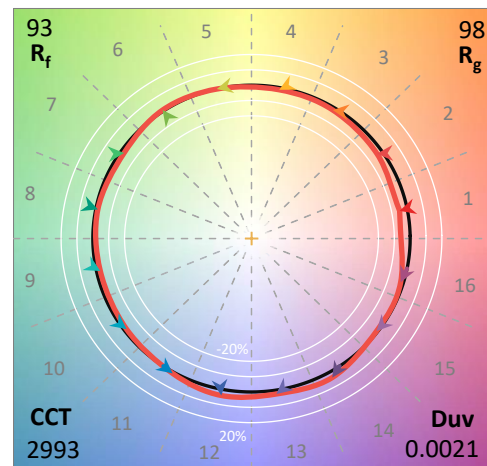
Test Information

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

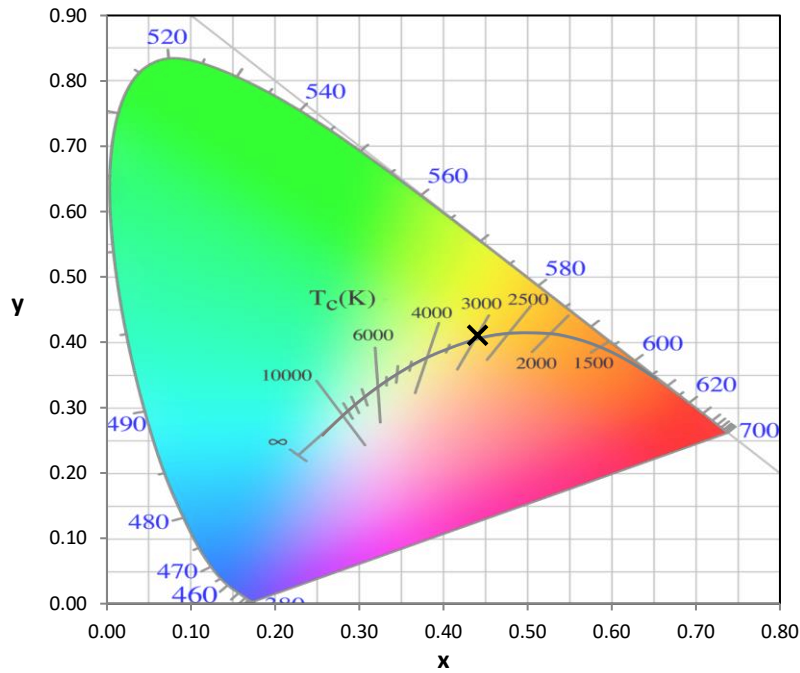
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-14

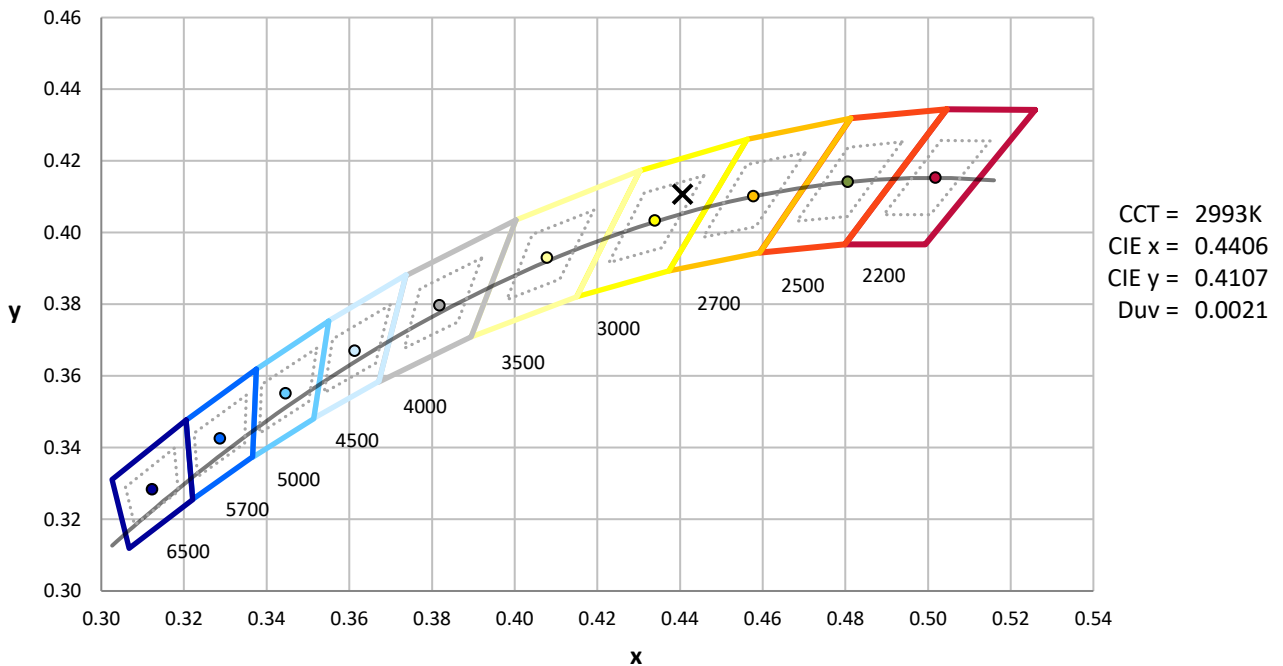
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



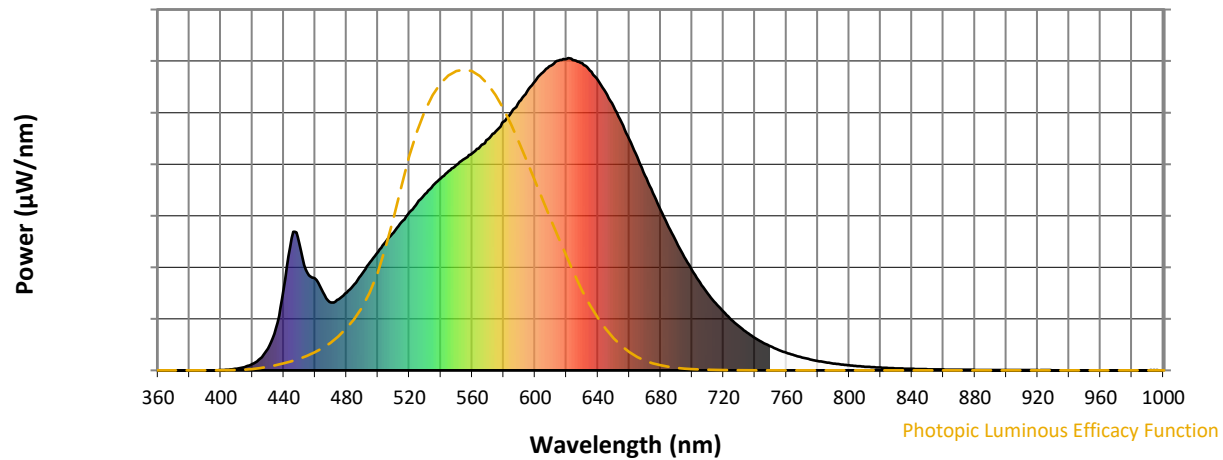
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-14

Photopic Flux vs. Wavelength

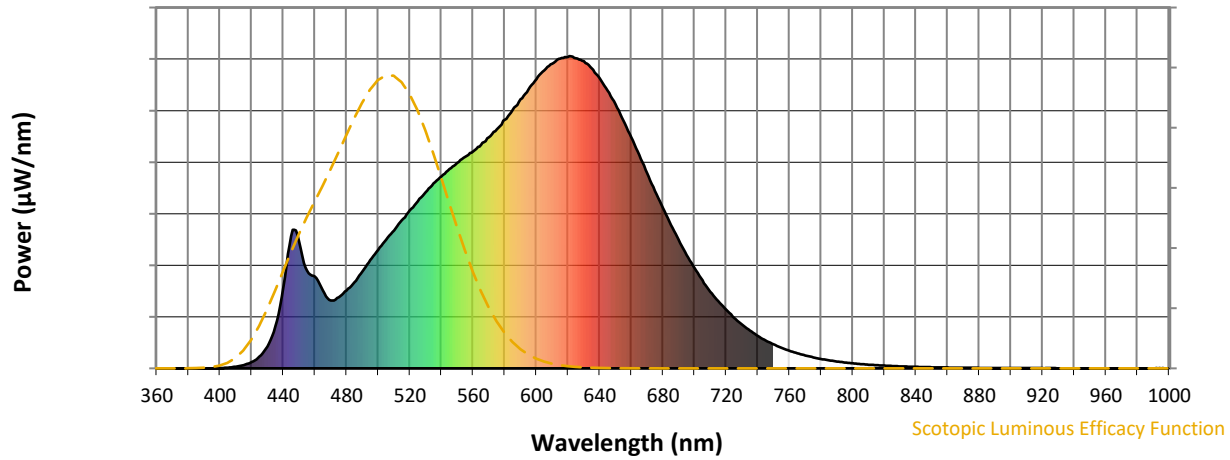


Photopic Lumens: NR

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



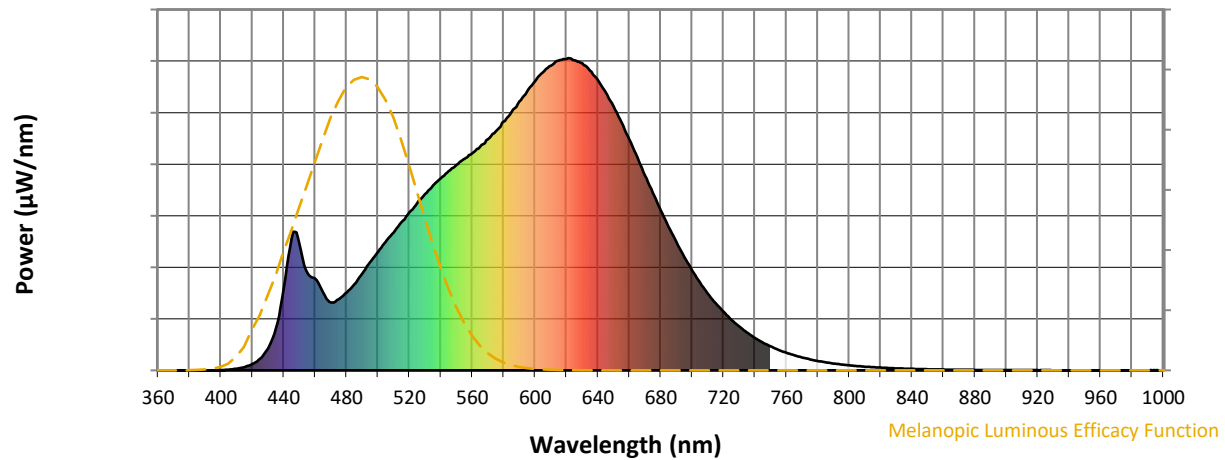
Scotopic Lumens: NR

S/P: 1.39

λ (nm)	Power 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

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.69

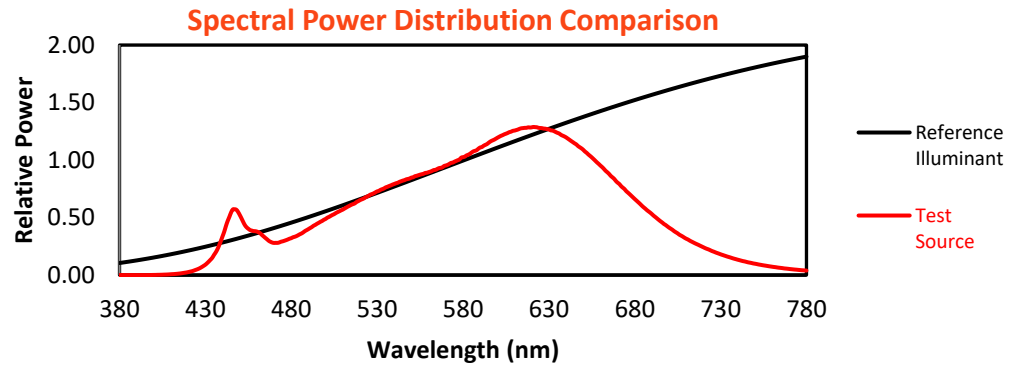
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	310	NR	620	998	NR	750	77	NR	880	2	NR
365	0	NR	495	347	NR	625	993	NR	755	66	NR	885	1	NR
370	0	NR	500	379	NR	630	983	NR	760	56	NR	890	1	NR
375	0	NR	505	412	NR	635	960	NR	765	48	NR	895	1	NR
380	0	NR	510	442	NR	640	930	NR	770	41	NR	900	1	NR
385	0	NR	515	475	NR	645	889	NR	775	35	NR	905	1	NR
390	0	NR	520	506	NR	650	846	NR	780	30	NR	910	1	NR
395	0	NR	525	535	NR	655	794	NR	785	26	NR	915	1	NR
400	1	NR	530	565	NR	660	740	NR	790	22	NR	920	1	NR
405	2	NR	535	592	NR	665	684	NR	795	19	NR	925	1	NR
410	6	NR	540	615	NR	670	624	NR	800	16	NR	930	0	NR
415	10	NR	545	638	NR	675	567	NR	805	14	NR	935	0	NR
420	20	NR	550	658	NR	680	513	NR	810	12	NR	940	0	NR
425	38	NR	555	678	NR	685	459	NR	815	10	NR	945	0	NR
430	70	NR	560	695	NR	690	412	NR	820	9	NR	950	0	NR
435	136	NR	565	716	NR	695	363	NR	825	8	NR	955	0	NR
440	262	NR	570	740	NR	700	320	NR	830	7	NR	960	0	NR
445	424	NR	575	765	NR	705	281	NR	835	6	NR	965	0	NR
450	406	NR	580	796	NR	710	245	NR	840	5	NR	970	0	NR
455	313	NR	585	827	NR	715	215	NR	845	4	NR	975	0	NR
460	294	NR	590	861	NR	720	188	NR	850	4	NR	980	0	NR
465	250	NR	595	894	NR	725	162	NR	855	3	NR	985	0	NR
470	217	NR	600	927	NR	730	140	NR	860	3	NR	990	0	NR
475	228	NR	605	954	NR	735	121	NR	865	2	NR	995	0	NR
480	249	NR	610	976	NR	740	104	NR	870	2	NR	1000	0	NR
485	276	NR	615	992	NR	745	89	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-14

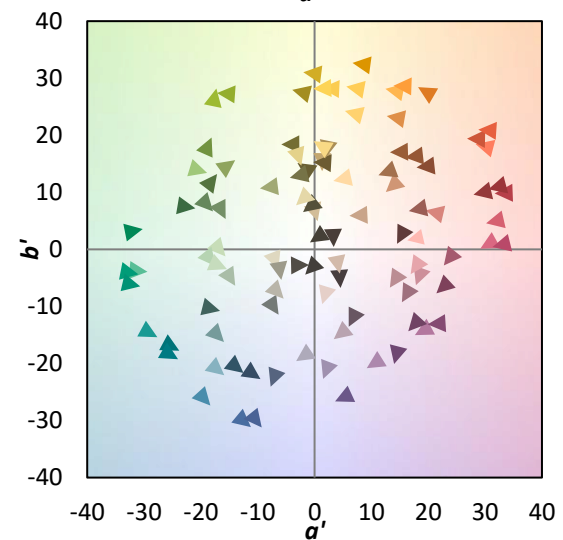
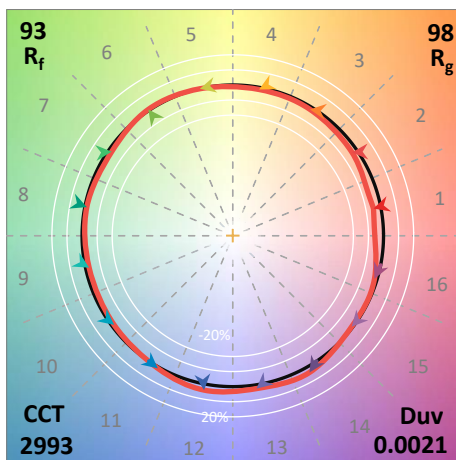
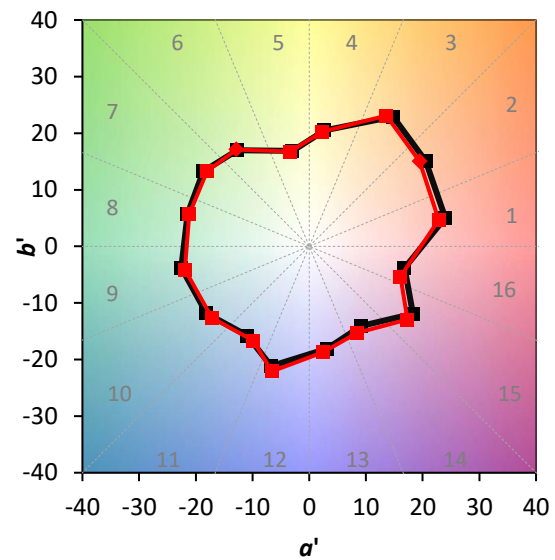
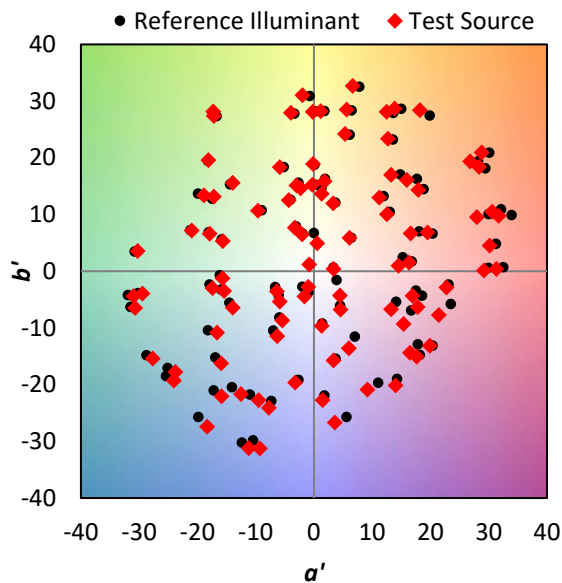
TM-30-18

Summary

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

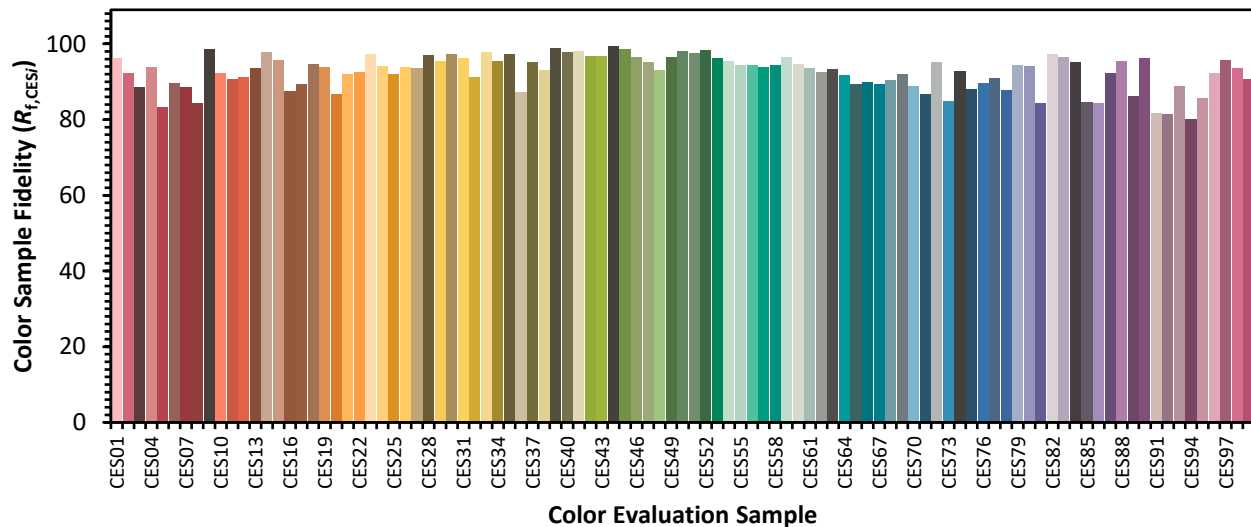


Color Vector Graphics

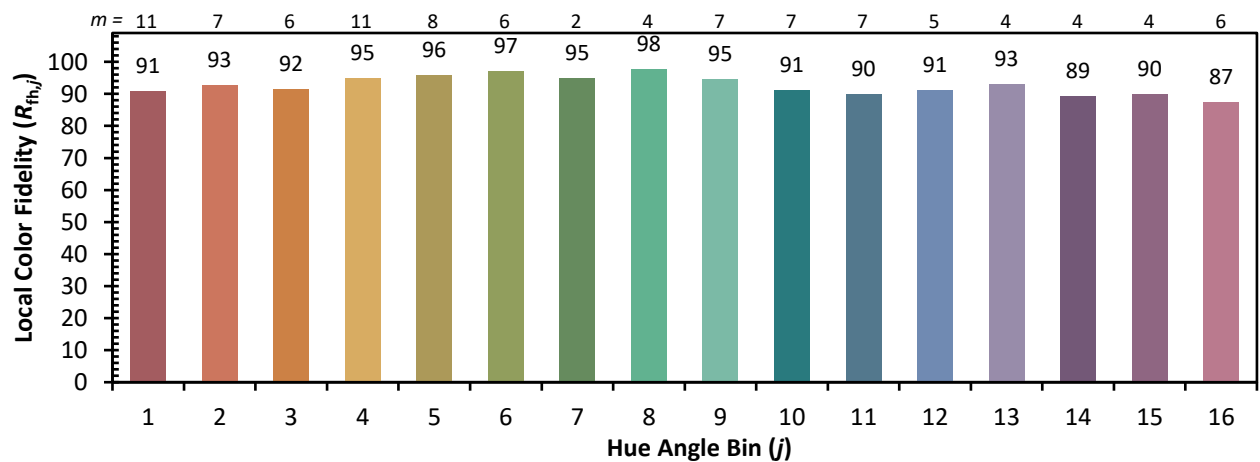
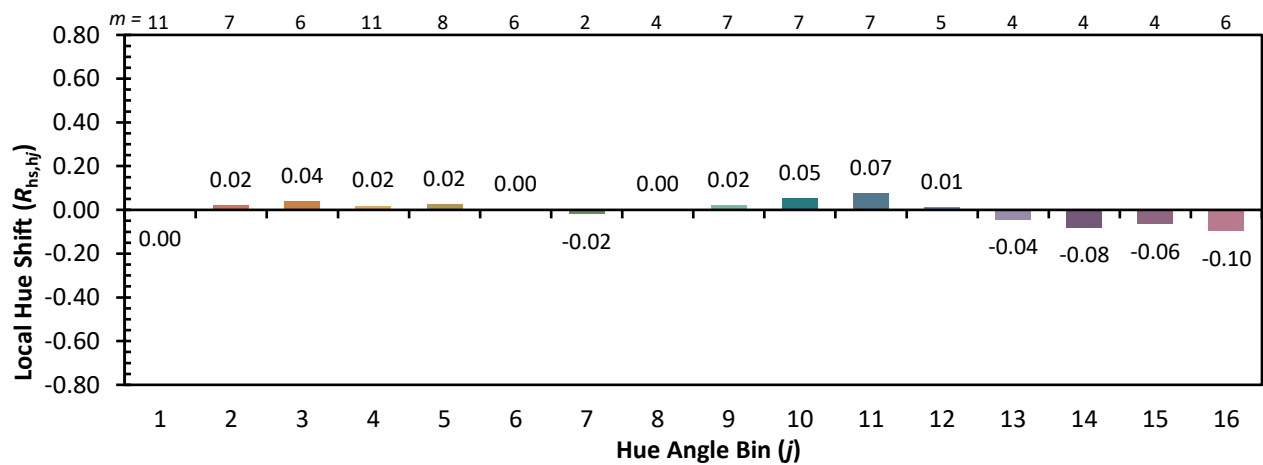
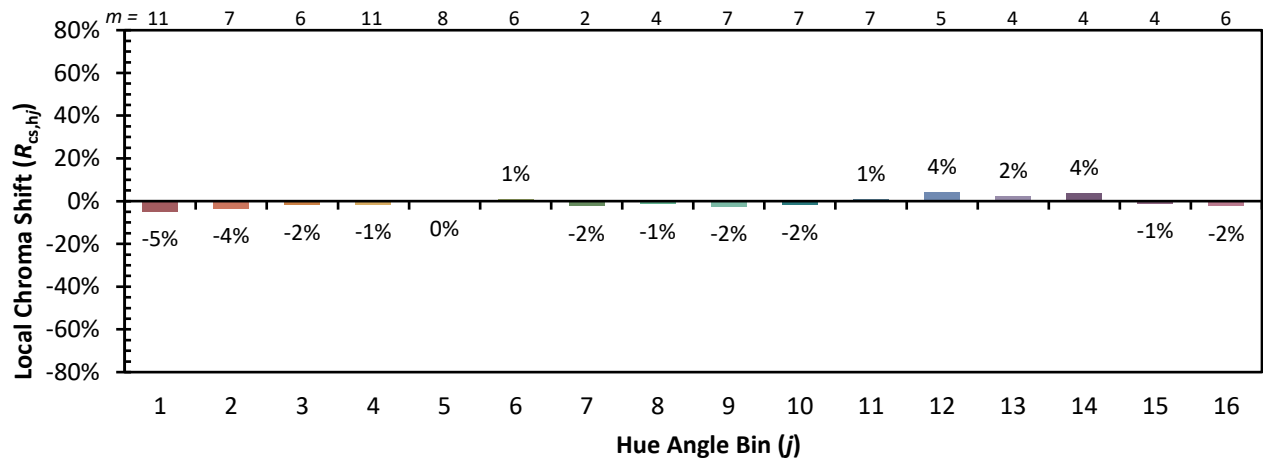


Individual Sample Fidelity Index ($R_{f,i}$)

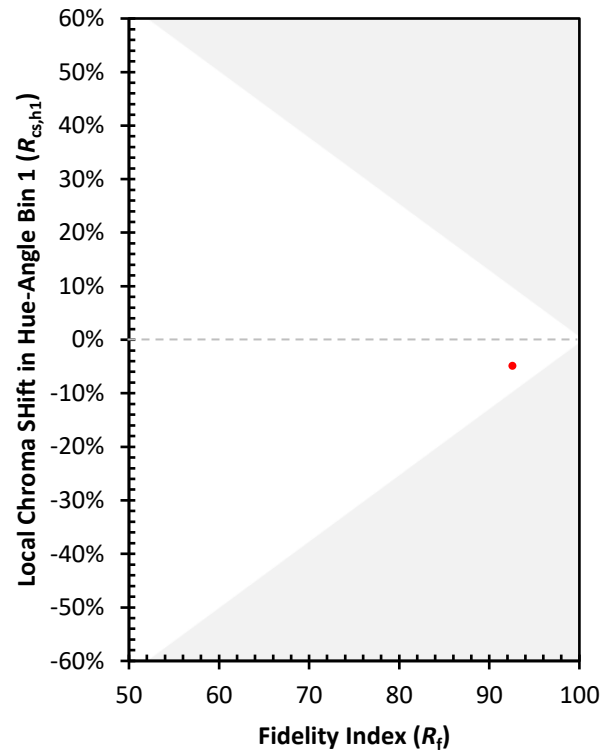
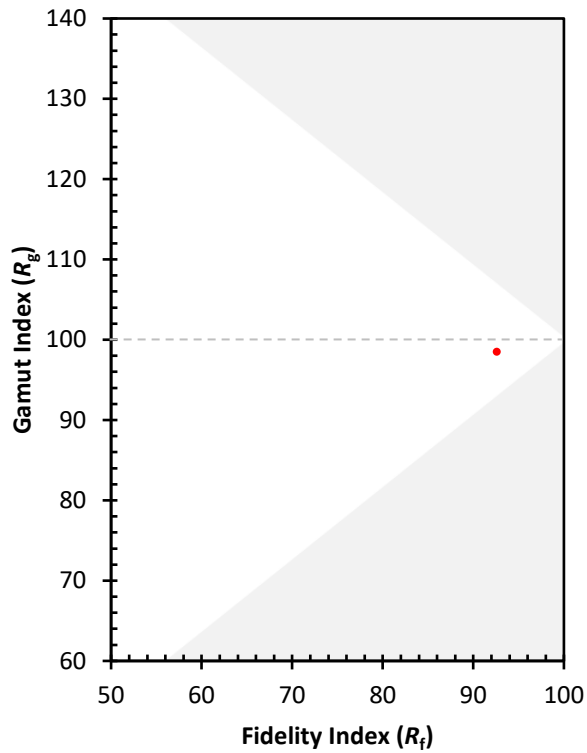
CES01 = 86	CES26 = 94	CES51 = 98	CES76 = 90
CES02 = 63	CES27 = 94	CES52 = 98	CES77 = 91
CES03 = 32	CES28 = 97	CES53 = 96	CES78 = 88
CES04 = 70	CES29 = 95	CES54 = 95	CES79 = 94
CES05 = 51	CES30 = 97	CES55 = 94	CES80 = 94
CES06 = 51	CES31 = 96	CES56 = 94	CES81 = 84
CES07 = 43	CES32 = 91	CES57 = 94	CES82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