

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: P1050038

Luminaire Tested: **GALN-SA1B-950-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1050038
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-950-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 1xLight Square PACKAGE
90CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3289 lumens
Efficiency: N/A
Efficacy: 85.0 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

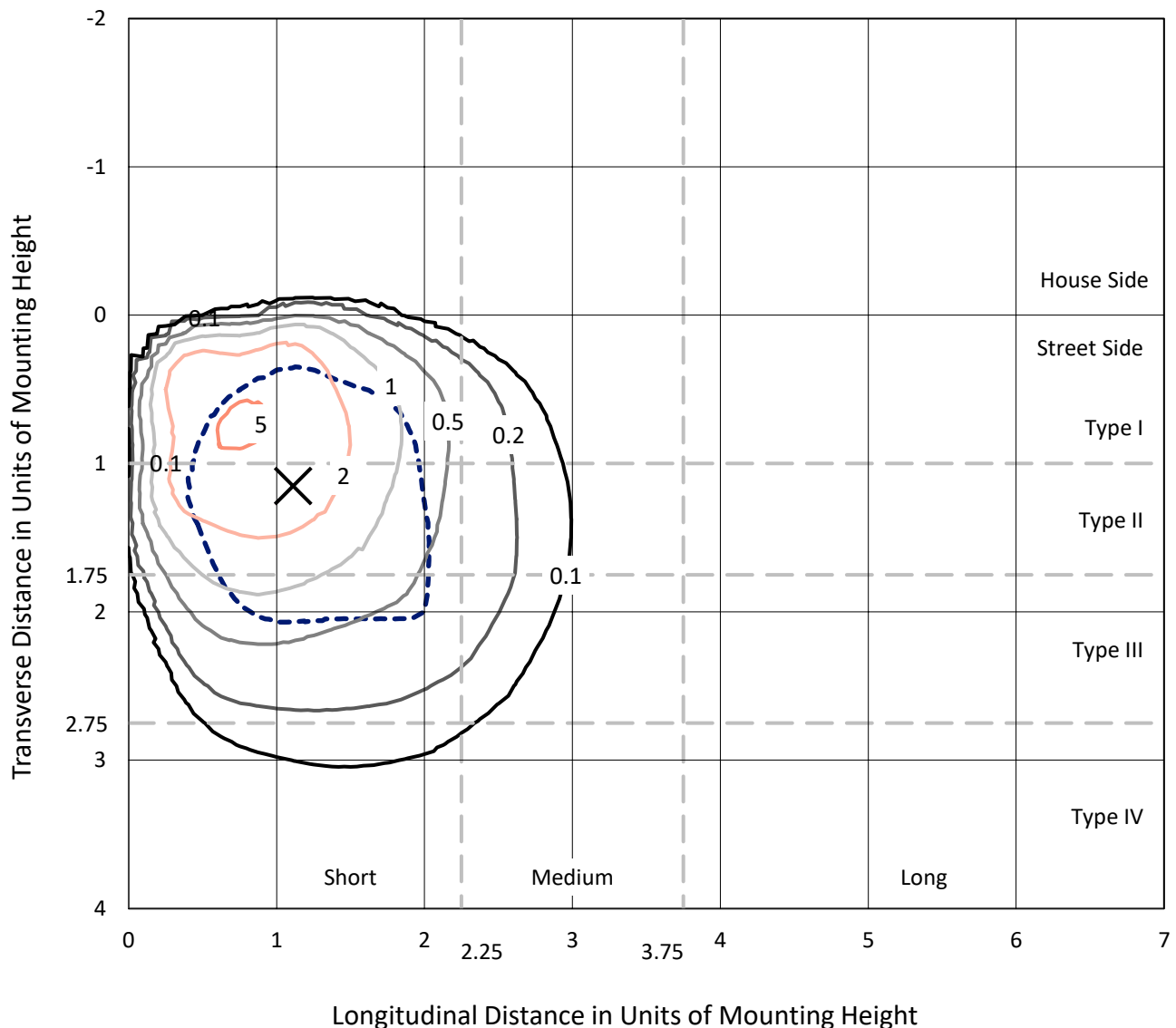
Input Watts (W): 38.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1050038

CATALOG NUMBER: GALN-SA1B-950-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

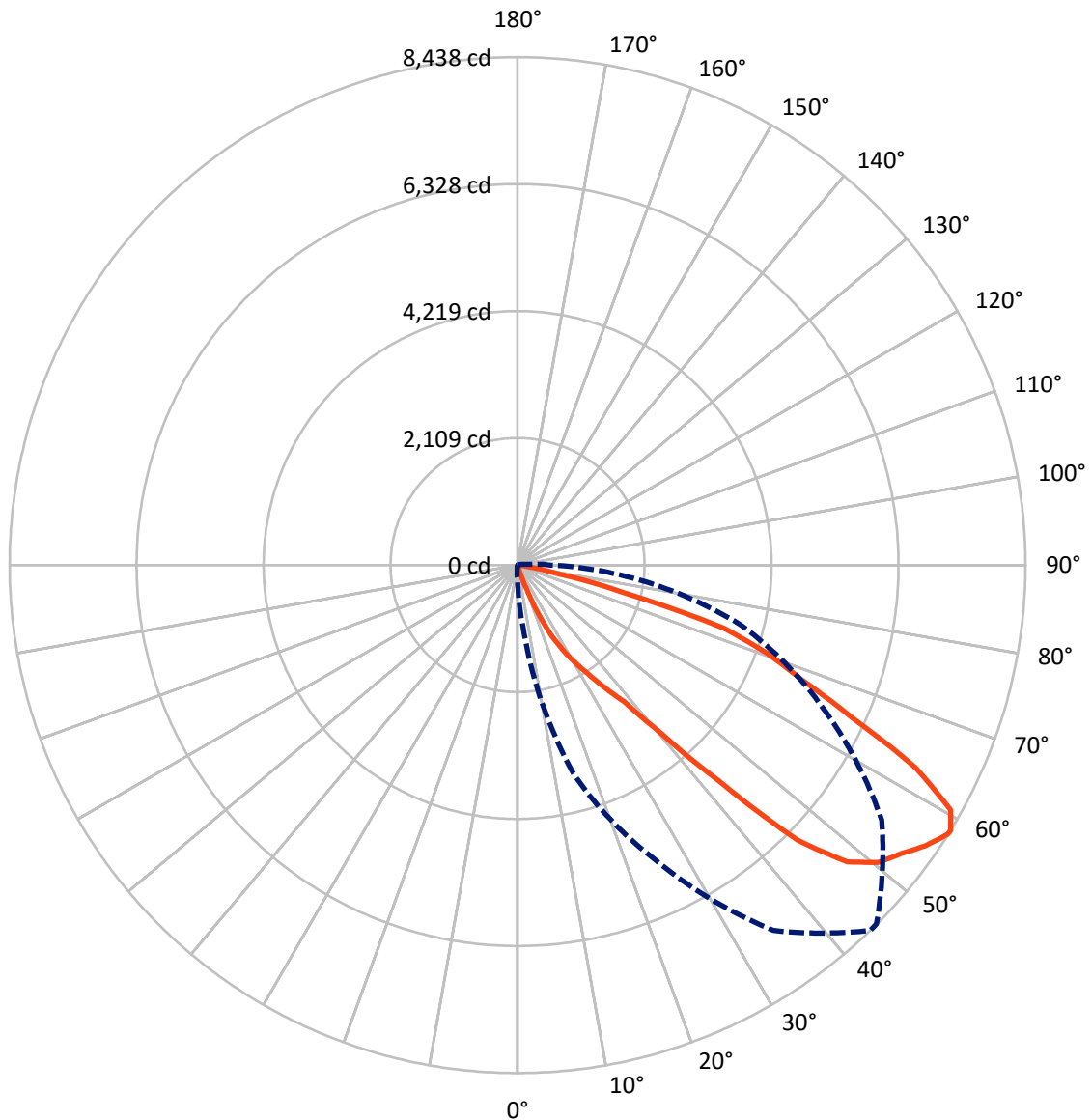
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Short - N/A

REPORT NUMBER: P1050038
CATALOG NUMBER: GALN-SA1B-950-U-LBC

Luminous Intensity Polar Plot



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

REPORT NUMBER: P1050038

CATALOG NUMBER: GALN-SA1B-950-U-LBC

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22.5	0.0	22.5
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	3266.5	0.0	3266.5
	% Fixture	99.3	0.0	99.3
Total	Lumens	3289.0	0.0	3289.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.3	0.0
10°-20°	7.2	0.2
20°-30°	77.9	2.4
30°-40°	230.4	7.0
40°-50°	686.8	20.9
50°-60°	1089.8	33.1
60°-70°	909.0	27.6
70°-80°	280.4	8.5
80°-90°	6.2	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°	3289.0	100.0
0°-180°	3289.0	100.0



REPORT NUMBER: P1050038

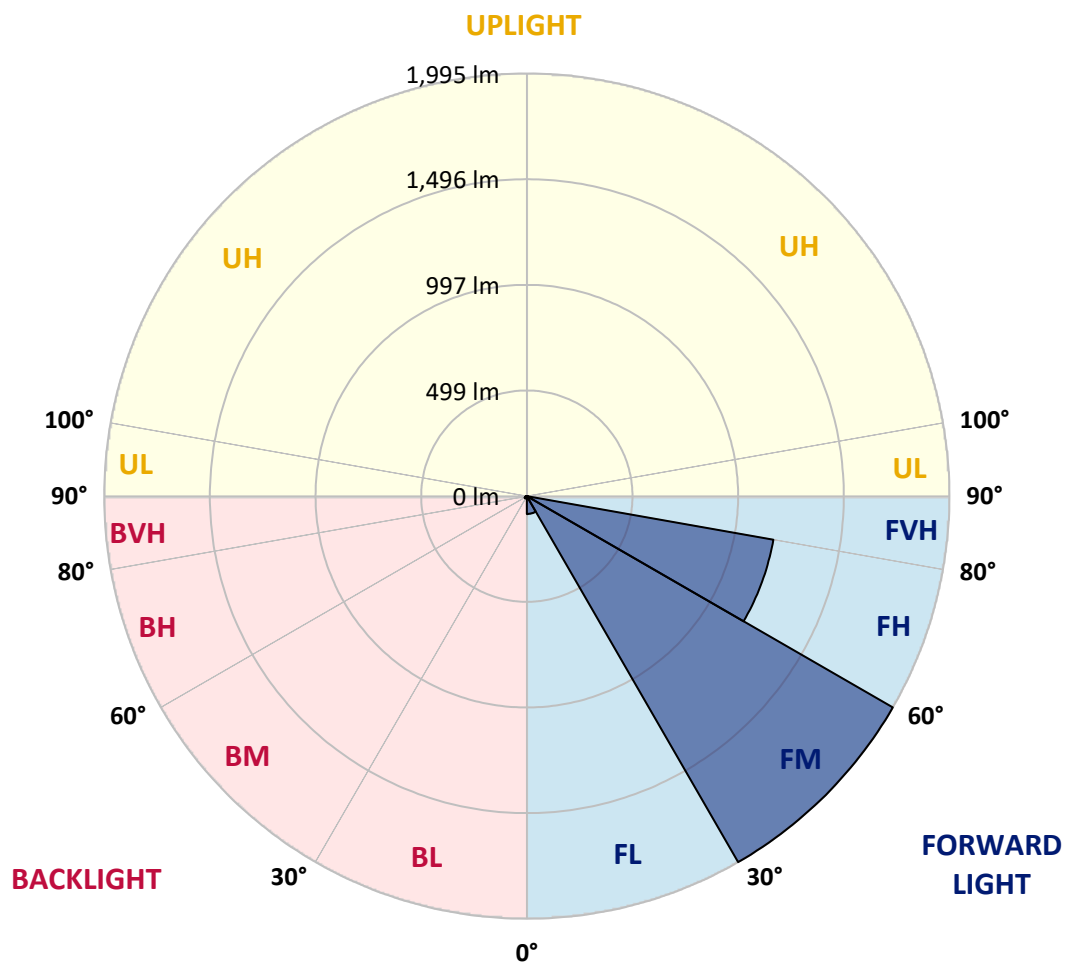
CATALOG NUMBER: GALN-SA1B-950-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	84.2	2.6			
FM	(30°-60°)	1994.7	60.6			
FH	(60°-80°)	1181.7	35.9			G1/1800
FVH	(80°-90°)	5.9	0.2			G0/10
BL	(0°-30°)	2.2	0.1	B0/110		
BM	(30°-60°)	12.3	0.4	B0/220		
BH	(60°-80°)	7.7	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: P1050038

CATALOG NUMBER: GALN-SA1B-950-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
2.5°	18.6	18.6	17.9	16.9	15.9	14.9	14.7	14.2	13.9	13.7
5°	19.4	19.4	19.1	18.4	17.4	16.6	16.6	15.9	15.4	14.9
7.5°	19.9	20.1	20.6	20.4	19.9	19.1	19.1	18.6	17.9	16.6
10°	20.6	21.4	22.4	22.9	23.1	23.1	22.9	22.6	21.4	19.6
12.5°	21.4	22.9	25.3	27.8	29.3	31.3	31.1	30.6	27.3	23.6
15°	22.9	25.1	30.3	37.5	48.7	55.7	58.4	55.9	45.2	31.8
17.5°	24.6	28.3	44.0	78.5	128.7	152.6	167.0	155.3	102.9	60.4
20°	26.3	34.5	81.7	203.5	333.9	411.9	433.6	399.8	256.7	115.0
22.5°	29.3	48.4	165.7	420.6	719.5	836.5	858.7	750.6	484.7	227.1
25°	35.5	70.3	285.7	685.5	1073.8	1271.3	1262.1	1120.5	786.4	362.7
27.5°	44.5	102.4	432.1	973.9	1413.2	1587.4	1608.2	1433.1	1048.2	533.4
30°	57.4	141.9	589.1	1205.0	1685.3	1873.6	1877.1	1695.9	1282.5	683.2
32.5°	69.8	179.1	726.5	1428.4	1953.3	2159.8	2175.2	1952.4	1457.4	839.3
35°	79.3	203.5	865.6	1624.6	2223.7	2508.1	2507.2	2242.5	1664.6	978.7
37.5°	80.0	227.8	991.6	1825.4	2566.0	2884.6	2916.1	2624.4	1915.1	1151.1
40°	78.3	255.2	1151.1	2138.4	3182.9	3671.7	3699.5	3331.8	2417.5	1446.3
42.5°	80.3	302.6	1410.0	2716.6	4207.3	4909.2	4962.9	4576.3	3341.0	2048.5
45°	90.7	391.8	1952.4	3683.8	5667.5	6523.2	6505.3	5948.5	4415.5	2965.3
47.5°	125.2	610.2	2756.4	4625.2	6600.7	7362.7	7378.1	6697.6	5042.6	3670.2
50°	192.6	933.7	3431.9	5122.9	7001.9	7766.4	7752.0	6965.7	5280.9	4017.3
52.5°	250.4	1167.7	3770.8	5297.5	7053.4	7965.9	7964.9	7036.2	5317.9	4047.1
55°	264.9	1185.4	3773.5	5307.0	7168.6	8227.1	8259.9	7209.9	5365.9	3916.9
57.5°	259.1	1049.5	3616.0	5361.6	7373.9	8429.1	8430.8	7378.1	5487.6	3837.1
58°	254.2	1028.1	3584.2	5392.7	7409.2	8437.5	8433.3	7385.8	5586.7	3834.1
60°	226.3	892.7	3460.2	5472.0	7356.7	8264.1	8224.6	7217.6	5572.1	3803.6
62.5°	177.9	696.4	3338.2	5380.3	6794.7	7424.6	7441.0	6390.0	5079.6	3625.4
65°	141.6	519.0	3083.8	4719.4	5595.2	6097.1	6158.2	5196.2	4239.9	3069.9
67.5°	112.8	375.2	2586.9	3757.4	4427.5	5088.6	5133.1	4362.6	3284.8	2352.1
70°	91.7	253.7	1785.6	2747.9	3651.8	4395.2	4397.9	3624.2	2451.7	1541.2
72.5°	81.2	175.7	1036.6	2004.0	2961.1	3581.5	3509.2	2941.0	1884.3	912.8
75°	70.3	116.5	508.3	1225.1	1795.3	1807.5	1835.1	1364.3	941.9	434.0
77.5°	57.9	82.7	200.3	334.7	538.4	689.2	714.8	541.6	313.3	106.8
80°	39.8	39.3	53.9	102.6	154.0	193.0	180.1	139.4	82.0	41.0
82.5°	17.1	18.6	24.3	29.3	23.9	23.1	22.1	14.2	10.9	8.4
85°	5.5	5.0	5.2	5.2	4.2	3.2	3.2	1.5	0.0	0.0
87.5°	2.7	2.2	2.2	2.0	1.2	0.5	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: P1050038

CATALOG NUMBER: GALN-SA1B-950-U-LBC

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
14.4	0°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
13.4	2.5°	13.2	13.2	12.7	12.2	11.9	11.4	11.2	10.9	10.7	10.4
14.4	5°	13.9	13.7	12.9	12.2	11.4	10.7	10.2	9.7	9.2	8.9
15.9	7.5°	15.2	14.7	13.2	11.9	10.9	9.9	9.4	8.7	8.2	7.5
17.6	10°	16.6	15.7	13.7	12.2	10.7	9.4	8.7	8.0	7.2	6.2
20.1	12.5°	18.6	16.9	14.4	11.9	10.2	8.7	8.0	7.0	6.2	5.5
23.4	15°	20.4	18.1	14.7	11.9	9.7	8.0	7.0	6.0	5.2	4.2
29.3	17.5°	22.9	19.1	14.4	11.2	8.9	7.0	6.0	5.2	4.0	2.5
43.5	20°	27.1	19.9	13.9	10.4	7.7	5.7	4.5	3.5	1.7	0.5
65.3	22.5°	33.8	21.9	13.4	9.4	6.7	4.5	3.0	1.2	0.0	0.0
99.4	25°	46.7	25.3	13.4	8.9	6.0	3.2	1.0	0.0	0.0	0.0
141.1	27.5°	62.1	30.1	13.4	7.7	4.7	1.7	0.0	0.0	0.0	0.0
192.3	30°	77.8	35.3	13.4	6.7	3.7	0.2	0.0	0.0	0.0	0.0
236.8	32.5°	92.7	39.8	13.7	5.7	2.5	0.0	0.0	0.0	0.0	0.0
298.4	35°	107.8	40.5	13.4	5.0	1.5	0.0	0.0	0.0	0.0	0.0
373.9	37.5°	127.2	39.0	12.7	4.5	0.7	0.0	0.0	0.0	0.0	0.0
491.9	40°	156.5	39.8	11.9	4.2	0.2	0.0	0.0	0.0	0.0	0.0
702.4	42.5°	210.7	43.0	10.9	4.2	0.0	0.0	0.0	0.0	0.0	0.0
1118.8	45°	364.2	57.6	9.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0
1679.6	47.5°	602.5	103.6	9.7	4.5	0.0	0.0	0.0	0.0	0.0	0.0
2023.2	50°	769.0	130.4	10.2	4.7	0.0	0.0	0.0	0.0	0.0	0.0
2066.1	52.5°	767.7	145.3	10.7	5.0	1.0	0.0	0.0	0.0	0.0	0.0
1904.4	55°	682.5	148.1	11.4	5.5	3.2	0.0	0.0	0.0	0.0	0.0
1636.6	57.5°	570.5	135.2	13.2	6.7	6.0	0.0	0.0	0.0	0.0	0.0
1594.6	58°	550.6	129.2	13.7	7.0	6.5	0.0	0.0	0.0	0.0	0.0
1383.1	60°	451.2	105.3	17.4	8.7	8.7	0.0	0.0	0.0	0.0	0.0
1133.9	62.5°	311.6	91.9	19.9	11.2	8.9	0.0	0.0	0.0	0.0	0.0
836.0	65°	220.4	83.0	21.6	11.9	7.2	0.0	0.0	0.0	0.0	0.0
594.1	67.5°	164.7	76.5	23.9	12.2	3.7	0.0	0.0	0.0	0.0	0.0
372.7	70°	126.2	71.8	29.3	12.9	1.0	0.0	0.0	0.0	0.0	0.0
222.1	72.5°	102.9	66.3	35.5	13.4	0.0	0.0	0.0	0.0	0.0	0.0
133.2	75°	85.2	59.9	34.3	14.7	0.0	0.0	0.0	0.0	0.0	0.0
71.1	77.5°	56.6	46.5	31.3	14.7	0.0	0.0	0.0	0.0	0.0	0.0
25.3	80°	19.9	18.4	24.3	12.9	0.0	0.0	0.0	0.0	0.0	0.0
5.2	82.5°	3.0	2.5	3.5	4.5	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: P1050038

CATALOG NUMBER: GALN-SA1B-950-U-LBC

CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
14.4	0°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
10.2	2.5°	10.2	10.2	9.9	10.2	10.2	10.7	11.9	13.7	15.7	16.4
8.7	5°	8.4	8.2	8.0	8.0	8.0	8.7	9.7	11.7	13.9	14.9
7.2	7.5°	7.0	6.7	6.5	6.2	6.2	6.7	8.0	10.2	12.4	13.4
6.0	10°	5.7	5.2	5.0	4.7	4.7	5.2	6.5	8.7	11.2	12.2
5.0	12.5°	4.7	4.0	3.5	3.2	3.0	3.7	5.0	7.0	9.7	10.9
3.7	15°	3.2	2.5	1.7	1.5	1.2	2.0	3.2	5.5	8.2	9.7
2.0	17.5°	1.7	0.7	0.2	0.0	0.0	0.5	1.5	4.0	6.7	8.0
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	5.0	6.2
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.0	4.2
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.2
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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	1.0	2.0
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: P1050038

CATALOG NUMBER: GALN-SA1B-950-U-LBC

CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
14.4	0°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
17.1	2.5°	17.6	17.4	16.9	16.4	16.4	16.4	17.1	17.9	18.6	18.6
15.4	5°	16.4	16.4	16.1	15.7	15.7	15.9	16.9	18.1	19.1	19.4
14.2	7.5°	15.2	15.7	15.2	14.9	15.2	15.4	16.4	17.9	19.4	19.9
13.2	10°	14.4	14.7	14.7	14.4	14.4	14.9	15.9	17.9	19.9	20.6
11.9	12.5°	13.4	13.9	13.7	13.7	13.7	14.2	15.4	17.6	20.4	21.4
10.7	15°	12.4	13.2	13.2	12.9	12.9	13.2	14.9	17.4	21.1	22.9
9.2	17.5°	11.4	12.2	12.4	11.9	11.9	12.4	14.2	17.4	21.6	24.6
7.5	20°	9.4	10.7	11.4	10.7	10.7	11.2	12.9	16.4	21.9	26.3
5.5	22.5°	7.5	8.7	9.7	9.4	9.4	9.7	11.9	15.7	22.1	29.3
3.2	25°	5.5	6.7	7.5	8.0	8.0	8.7	10.9	15.2	23.1	35.5
1.5	27.5°	3.2	4.7	5.7	6.2	6.5	7.5	10.2	14.7	24.8	44.5
0.0	30°	1.5	2.7	4.0	5.0	5.0	6.7	9.4	14.2	27.1	57.4
0.0	32.5°	0.0	1.2	2.0	3.5	3.7	5.5	8.7	13.7	30.3	69.8
0.0	35°	0.0	0.0	1.0	2.7	2.7	4.5	8.0	13.2	35.3	79.3
0.0	37.5°	0.0	0.0	0.0	2.0	2.2	4.0	7.7	12.9	36.3	80.0
0.0	40°	0.0	0.0	0.0	1.5	1.7	3.7	7.7	13.2	32.8	78.3
0.0	42.5°	0.0	0.0	0.0	1.0	1.2	3.7	7.7	13.7	29.6	80.3
0.0	45°	0.0	0.0	0.0	0.7	1.0	4.0	7.5	13.4	27.8	90.7
0.0	47.5°	0.0	0.0	0.0	1.0	1.5	4.0	7.2	13.2	28.1	125.2
0.0	50°	0.0	0.0	0.0	1.2	1.7	4.0	7.5	12.7	30.8	192.6
0.0	52.5°	0.0	0.0	0.0	1.0	1.5	4.5	8.2	12.4	33.5	250.4
0.0	55°	0.0	0.0	0.0	0.2	0.7	5.7	8.9	12.4	37.8	264.9
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	6.5	10.2	13.2	44.7	259.1
0.0	58°	0.0	0.0	0.0	0.0	0.0	6.5	10.4	13.2	45.2	254.2
0.0	60°	0.0	0.0	0.0	0.0	0.0	6.5	11.4	14.7	48.7	226.3
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	5.5	13.7	18.4	50.7	177.9
0.0	65°	0.0	0.0	0.0	0.0	0.0	4.5	16.1	20.1	52.2	141.6
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	4.2	16.6	20.4	52.9	112.8
0.0	70°	0.0	0.0	0.0	0.0	0.0	4.5	16.4	21.9	55.4	91.7
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	5.0	14.9	24.1	55.4	81.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	5.2	13.9	27.1	50.4	70.3
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	5.0	13.7	31.6	45.0	57.9
0.0	80°	0.5	0.7	0.7	0.5	0.5	4.2	13.4	32.1	38.3	39.8
0.2	82.5°	1.5	2.0	1.7	1.2	1.2	3.7	11.9	26.8	19.9	17.1
1.5	85°	2.7	3.2	3.2	2.7	2.7	3.5	7.5	9.7	6.7	5.5
2.7	87.5°	3.7	4.2	4.2	3.7	3.7	3.5	3.2	3.0	2.7	2.7
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: SP1-2407-184-17

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-950-U-5WQ

Data in this report applies to families of products including GSS-SB1A-950-U-5WQ

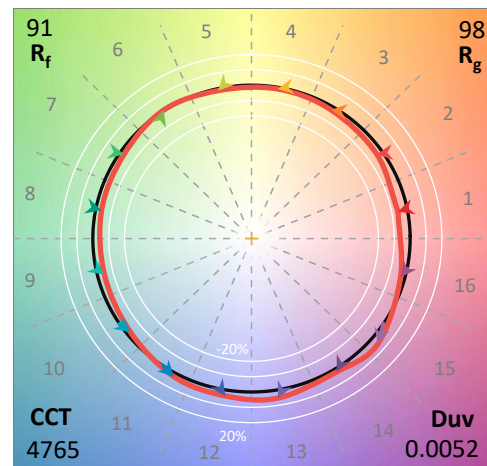
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-17
 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-950-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K): 4765
 CIE u' : 0.2105
 CIE v' : 0.4941
 Duv: 0.0052
 CIE x: 0.3536
 CIE y: 0.3689
 CIE z: 0.2775
 Peak Wavelength (nm): 449
 Dominant Wavelength (nm): 571
 Purity: 16.80041
 R_f: 90.7
 R_g: 98

CRI (Ra): 90.8
 R1: 89.8
 R2: 93.1
 R3: 95.3
 R4: 90.3
 R5: 89.0
 R6: 89.7
 R7: 94.9
 R8: 84.0
 R9: 54.9
 R10: 83.0
 R11: 89.6
 R12: 68.0
 R13: 90.6
 R14: 97.3
 R15: 86.2



Test Conditions

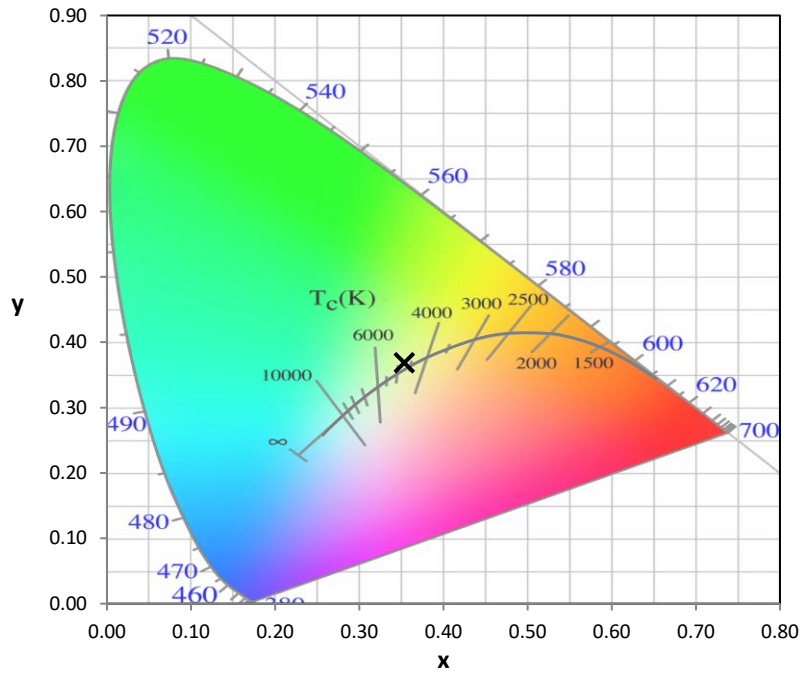
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-17

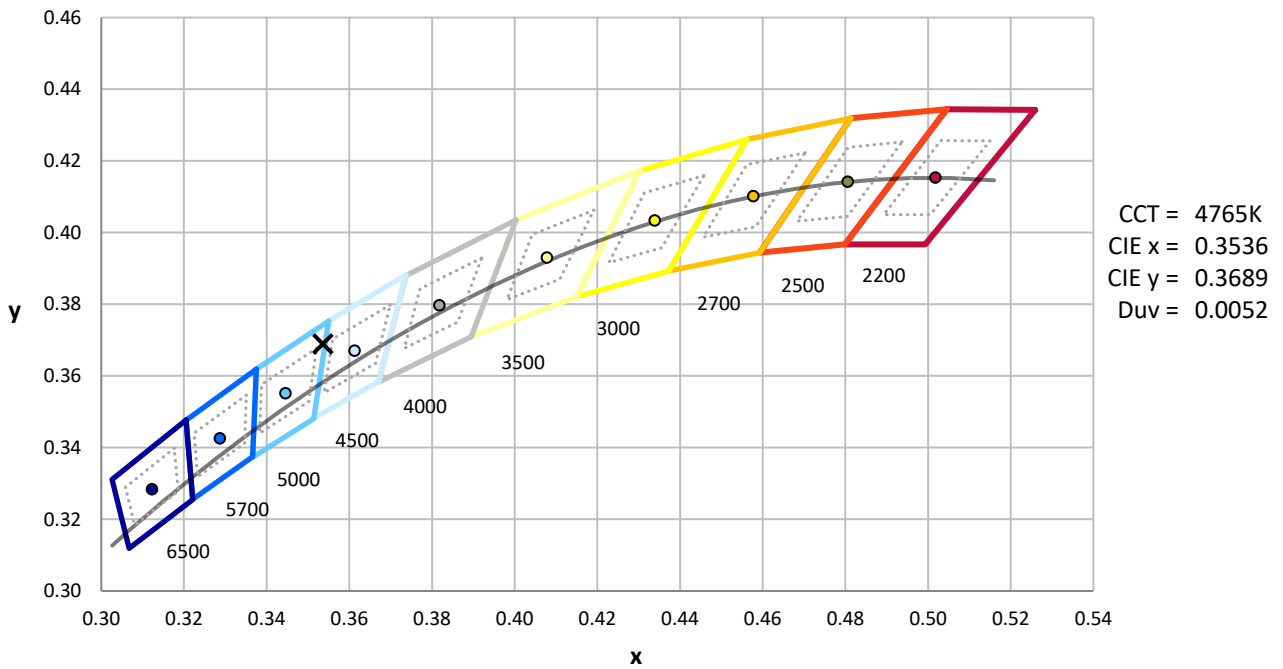
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-17

CIE 1931 Chromaticity Diagram



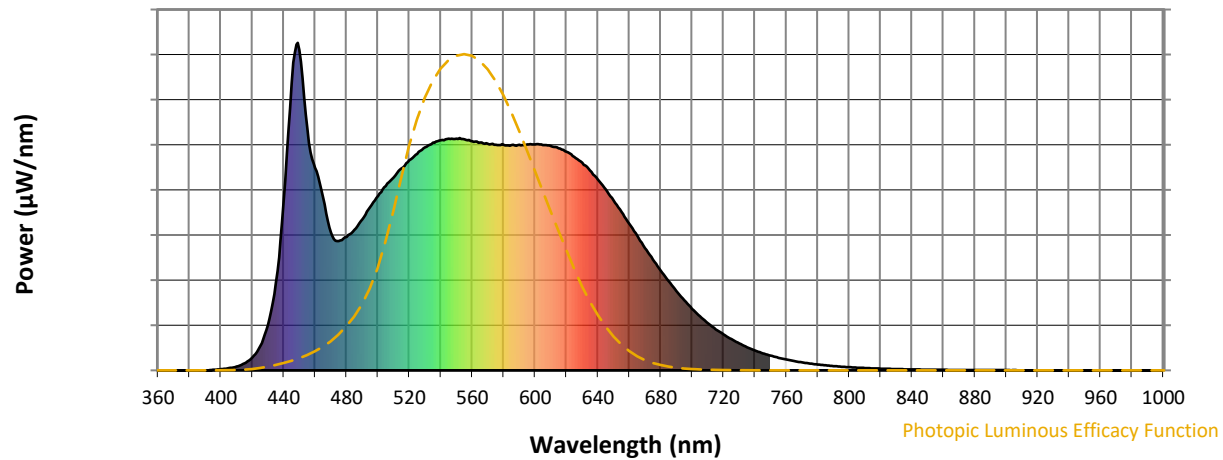
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-17

Photopic Flux vs. Wavelength

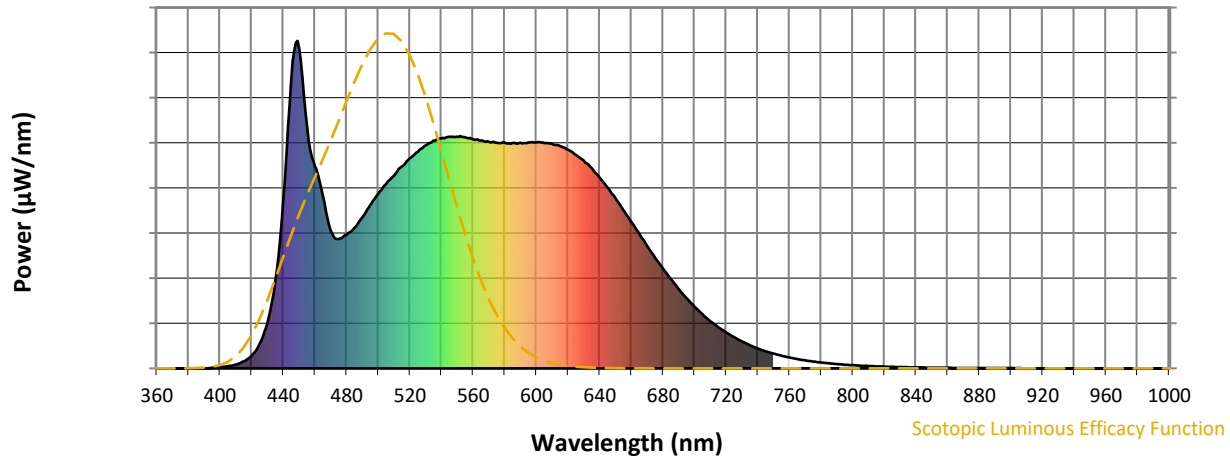


Photopic Lumens: NR

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	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-17

Scotopic Flux vs. Wavelength



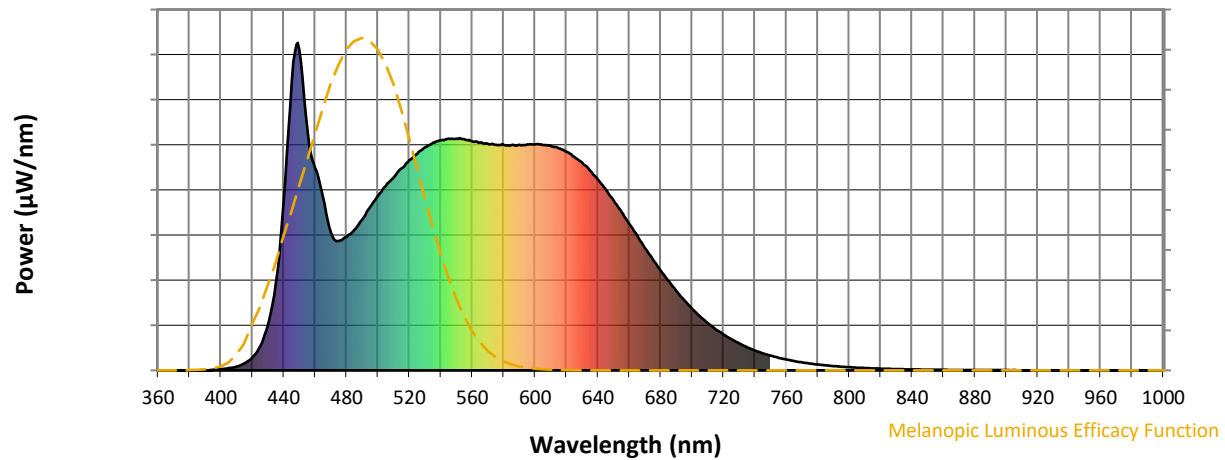
Scotopic Lumens: NR

S/P: 1.99

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	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-17

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 4.22

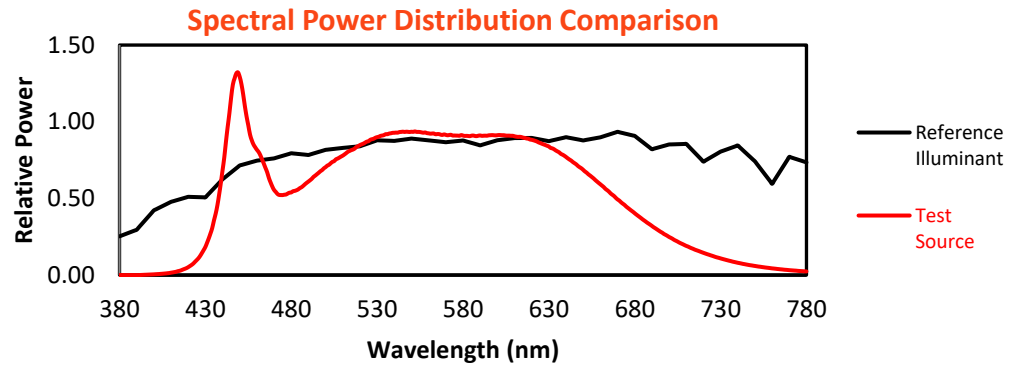
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-17

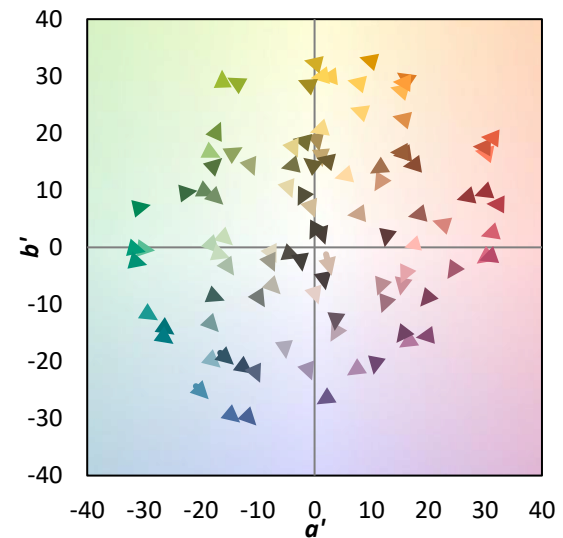
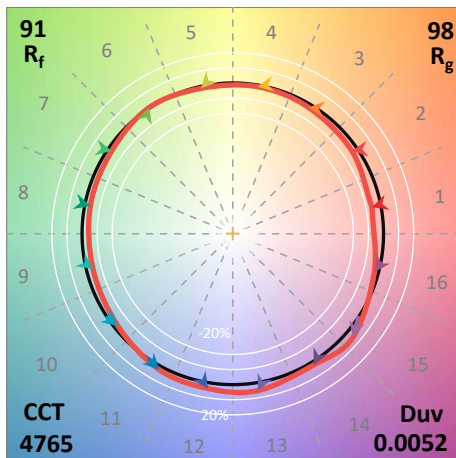
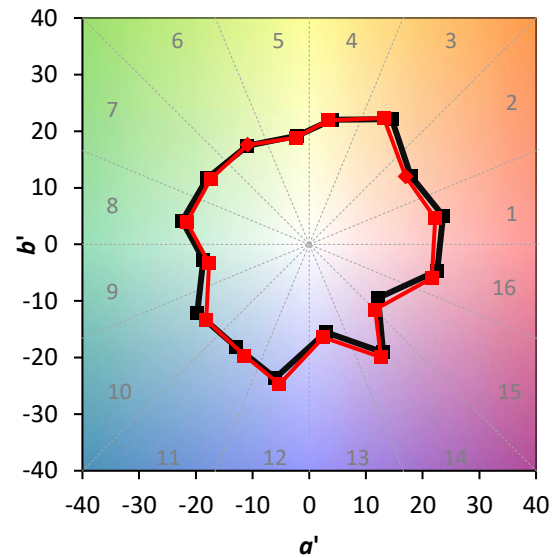
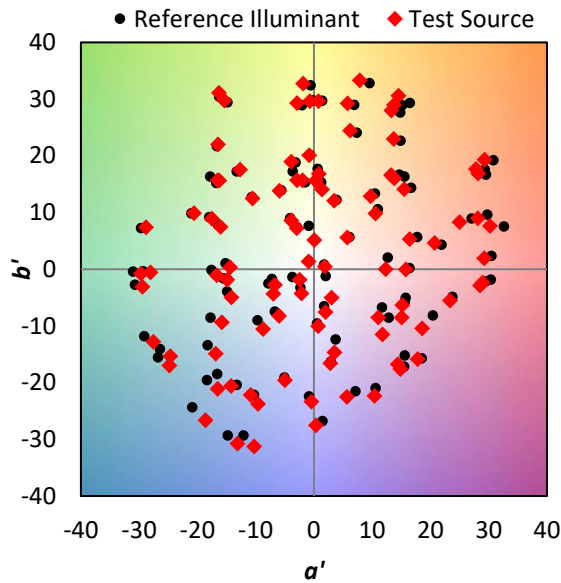
TM-30-18

Summary

$R_f = 90.7$
 $R_g = 98$
 CIE $R_a = 90.8$
 $R_9 = 54.9$

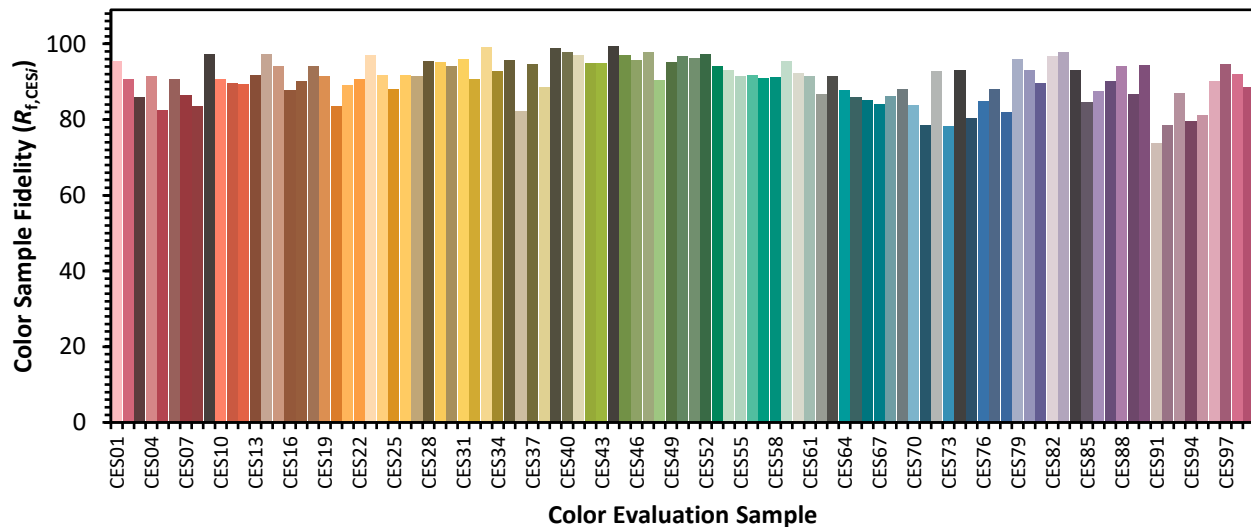


Color Vector Graphics

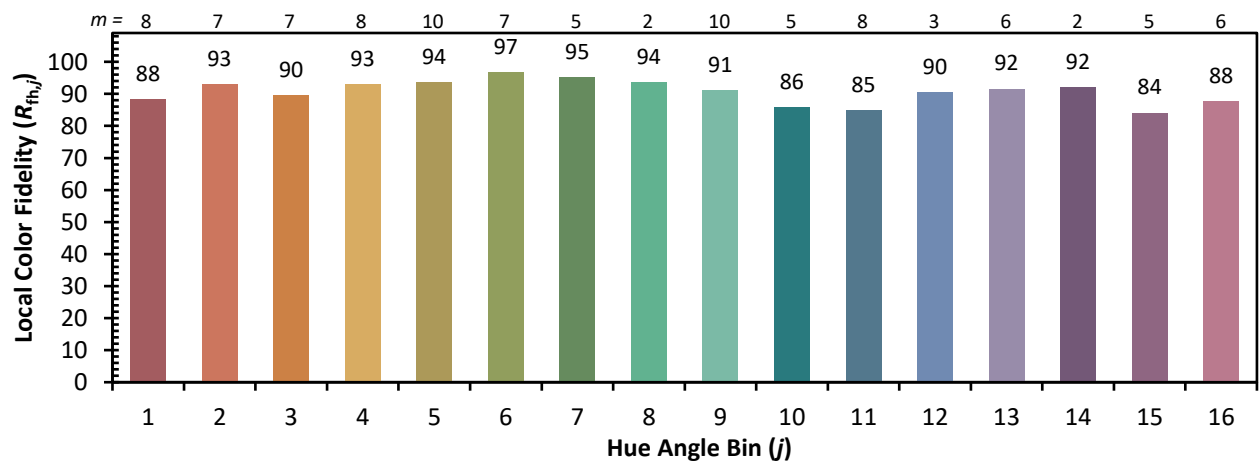
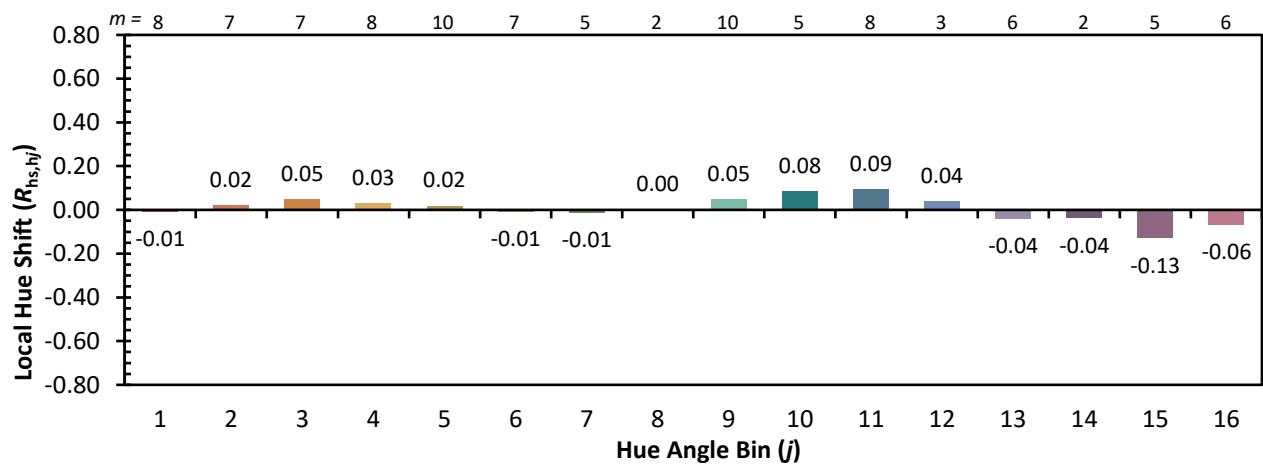
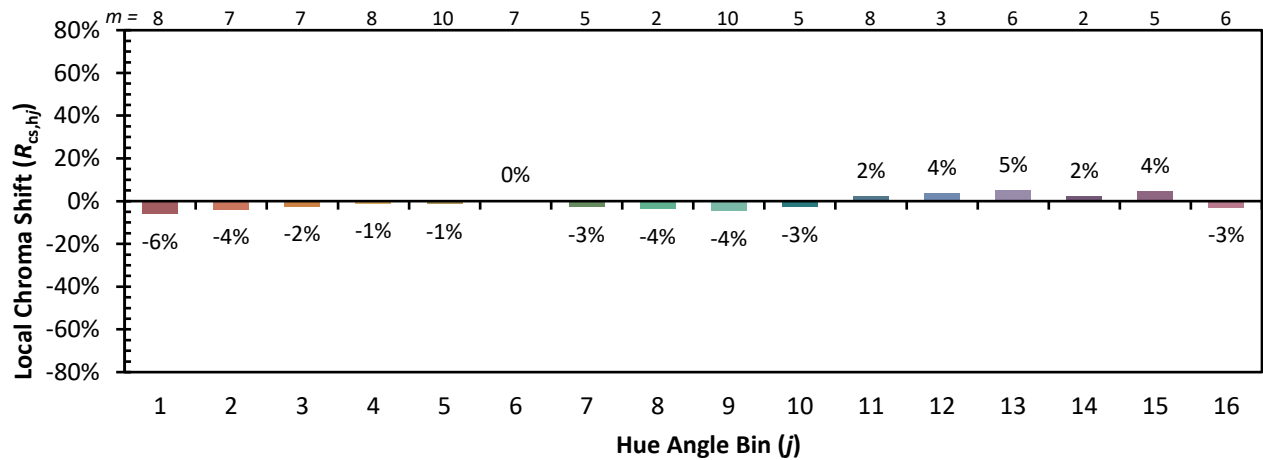


Individual Sample Fidelity Index ($R_{f,i}$)

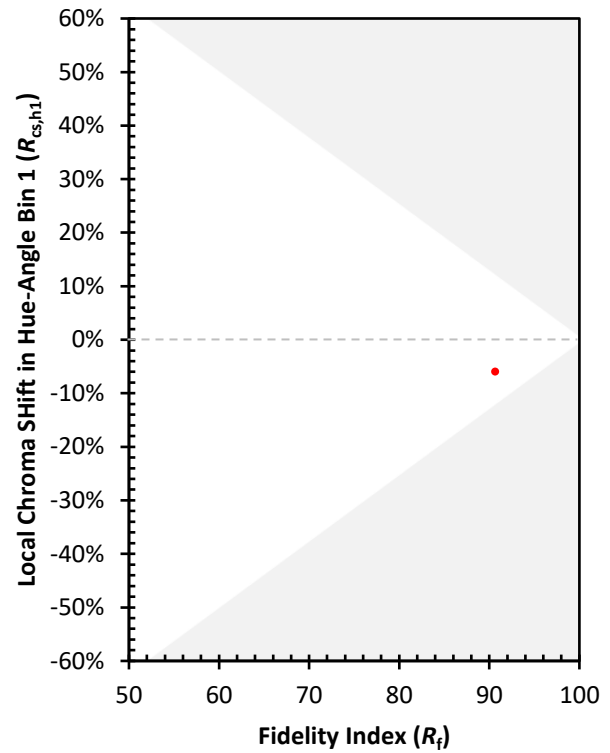
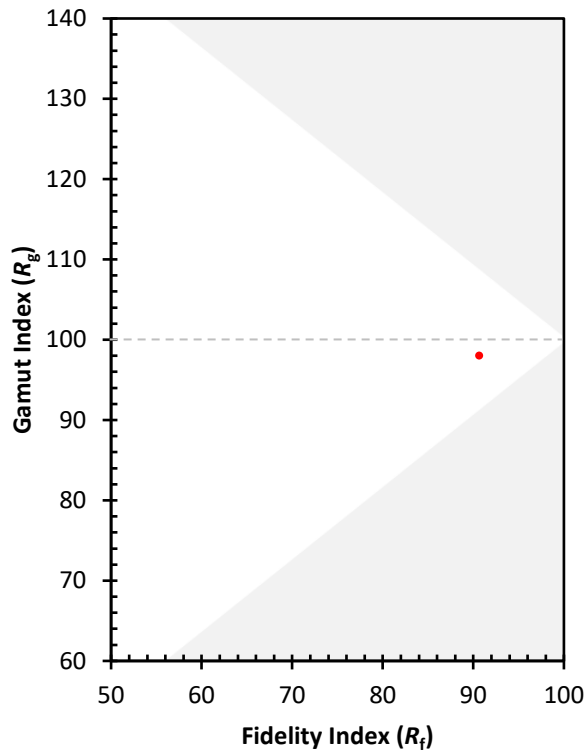
CES01 = 85	CES26 = 92	CES51 = 96	CES76 = 85
CES02 = 60	CES27 = 92	CES52 = 97	CES77 = 88
CES03 = 31	CES28 = 95	CES53 = 94	CES78 = 82
CES04 = 69	CES29 = 95	CES54 = 93	CES79 = 96
CES05 = 48	CES30 = 94	CES55 = 92	CES80 = 93
CES06 = 50	CES31 = 96	CES56 = 92	CES81 = 89
CES07 = 41	CES32 = 91	CES57 = 91	CES82 = 97
CES08 = 40	CES33 = 99	CES58 = 91	CES83 = 98
CES09 = 29	CES34 = 93	CES59 = 95	CES84 = 93
CES10 = 73	CES35 = 96	CES60 = 92	CES85 = 85
CES11 = 56	CES36 = 82	CES61 = 92	CES86 = 88
CES12 = 62	CES37 = 95	CES62 = 87	CES87 = 90
CES13 = 42	CES38 = 89	CES63 = 91	CES88 = 94
CES14 = 74	CES39 = 99	CES64 = 88	CES89 = 87
CES15 = 71	CES40 = 98	CES65 = 86	CES90 = 94
CES16 = 46	CES41 = 97	CES66 = 85	CES91 = 74
CES17 = 48	CES42 = 95	CES67 = 84	CES92 = 78
CES18 = 56	CES43 = 95	CES68 = 86	CES93 = 87
CES19 = 70	CES44 = 100	CES69 = 88	CES94 = 80
CES20 = 65	CES45 = 97	CES70 = 84	CES95 = 81
CES21 = 85	CES46 = 96	CES71 = 79	CES96 = 90
CES22 = 77	CES47 = 98	CES72 = 93	CES97 = 95
CES23 = 91	CES48 = 90	CES73 = 78	CES98 = 92
CES24 = 90	CES49 = 95	CES74 = 93	CES99 = 88
CES25 = 70	CES50 = 97	CES75 = 80	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)