

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: P1049569

Luminaire Tested: **GALN-SA1A-730-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049569
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-730-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 1xLight Square PACKAGE
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3231.7 lumens
Efficiency: N/A
Efficacy: 111.4 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): 29
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

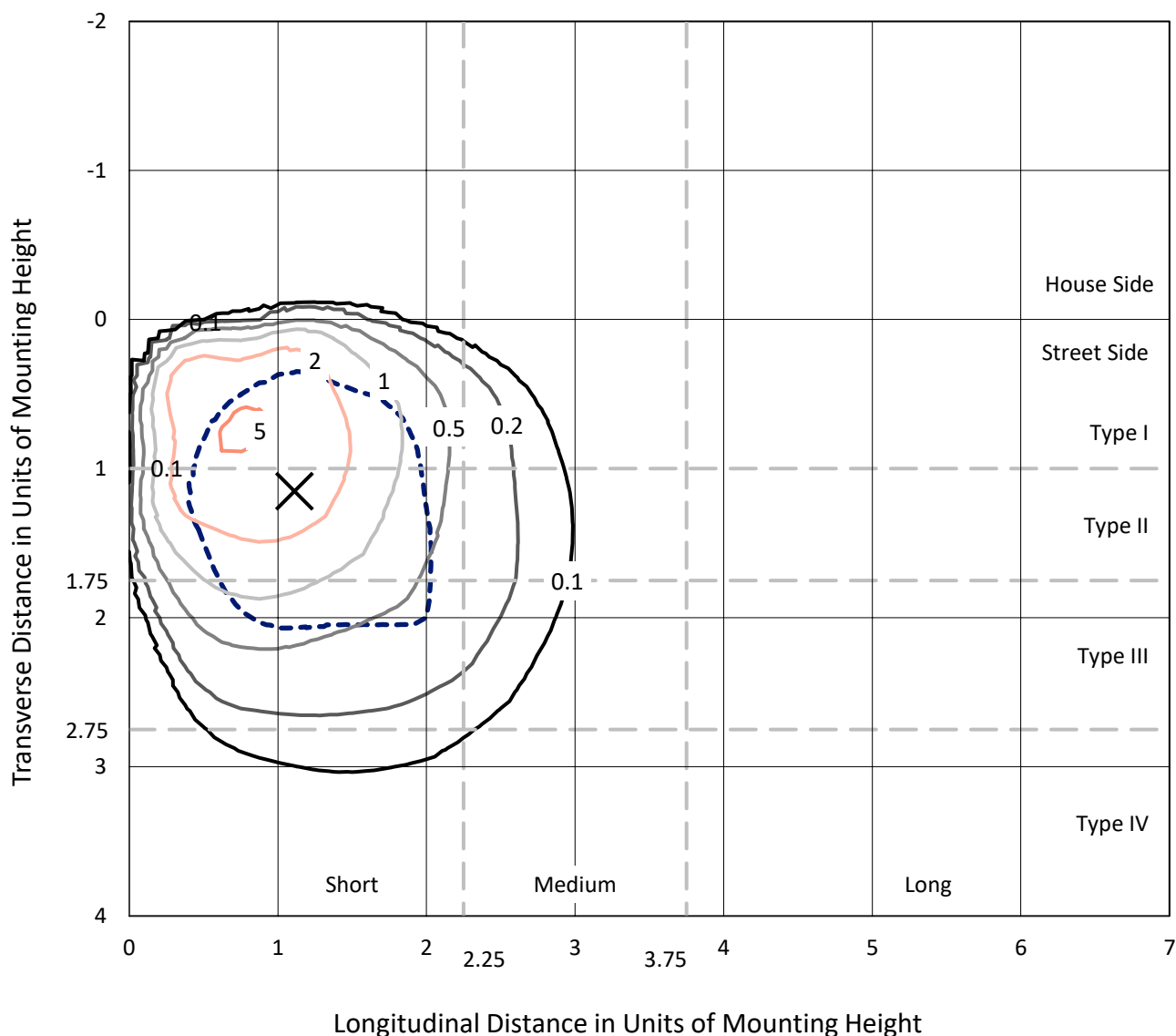
REPORT NUMBER: P1049569

CATALOG NUMBER: GALN-SA1A-730-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

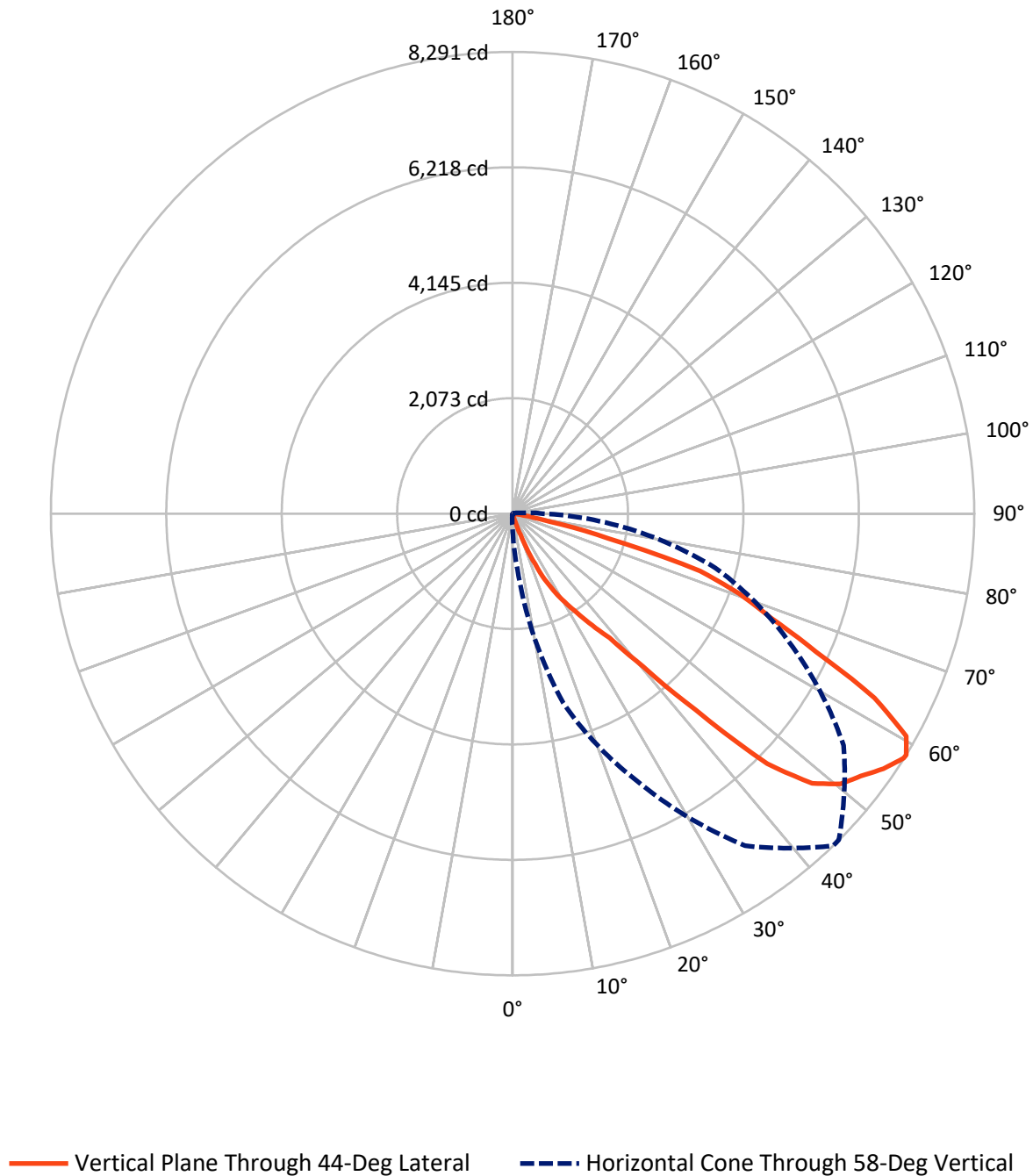


Based on 20 foot mounting height. Maximum calculated value = 5.6 fc

Type III - Short - N/A

REPORT NUMBER: P1049569
CATALOG NUMBER: GALN-SA1A-730-U-LBC

Luminous Intensity Polar Plot



REPORT NUMBER: P1049569

CATALOG NUMBER: GALN-SA1A-730-U-LBC

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22.1	0.0	22.1
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	3209.6	0.0	3209.6
	% Fixture	99.3	0.0	99.3
Total	Lumens	3231.7	0.0	3231.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.3	0.0
10°-20°	7.1	0.2
20°-30°	76.6	2.4
30°-40°	226.4	7.0
40°-50°	674.8	20.9
50°-60°	1070.8	33.1
60°-70°	893.2	27.6
70°-80°	275.5	8.5
80°-90°	6.1	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3231.7	100.0
0°-180°	3231.7	100.0



REPORT NUMBER: P1049569

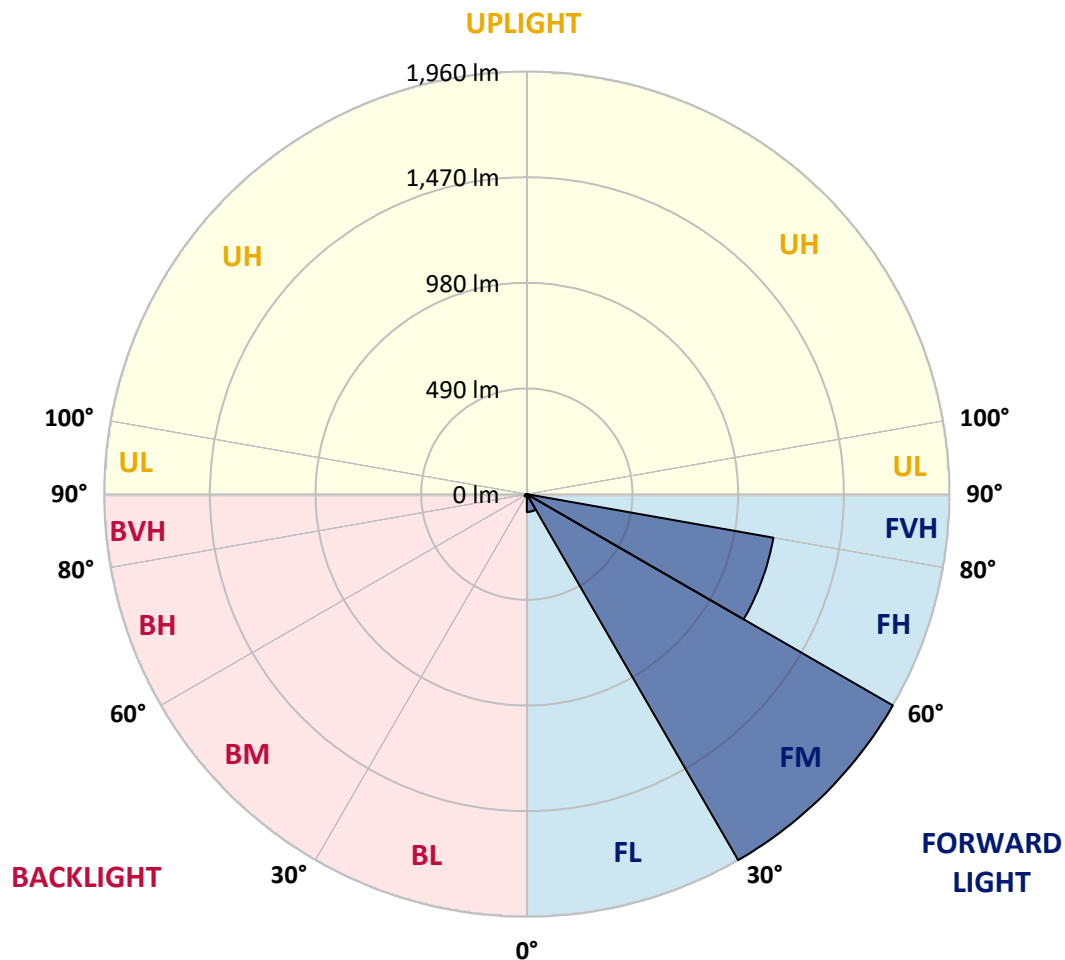
CATALOG NUMBER: GALN-SA1A-730-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	82.7	2.6			
FM	(30°-60°)	1959.9	60.6			
FH	(60°-80°)	1161.1	35.9			G1/1800
FVH	(80°-90°)	5.8	0.2			G0/10
BL	(0°-30°)	2.2	0.1	B0/110		
BM	(30°-60°)	12.1	0.4	B0/220		
BH	(60°-80°)	7.5	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: P1049569

CATALOG NUMBER: GALN-SA1A-730-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
2.5°	18.3	18.3	17.6	16.6	15.6	14.6	14.4	13.9	13.7	13.4
5°	19.0	19.0	18.8	18.1	17.1	16.4	16.4	15.6	15.1	14.6
7.5°	19.5	19.8	20.3	20.0	19.5	18.8	18.8	18.3	17.6	16.4
10°	20.3	21.0	22.0	22.5	22.7	22.7	22.5	22.2	21.0	19.3
12.5°	21.0	22.5	24.9	27.3	28.8	30.8	30.5	30.0	26.9	23.2
15°	22.5	24.7	29.8	36.9	47.8	54.7	57.4	54.9	44.4	31.2
17.5°	24.2	27.8	43.2	77.1	126.5	149.9	164.1	152.6	101.1	59.3
20°	25.9	33.9	80.3	199.9	328.1	404.8	426.0	392.8	252.2	113.0
22.5°	28.8	47.6	162.8	413.3	707.0	822.0	843.7	737.5	476.3	223.1
25°	34.9	69.1	280.7	673.5	1055.1	1249.2	1240.2	1101.0	772.7	356.4
27.5°	43.7	100.6	424.5	957.0	1388.6	1559.7	1580.2	1408.1	1030.0	524.1
30°	56.4	139.4	578.8	1184.0	1655.9	1840.9	1844.4	1666.4	1260.2	671.3
32.5°	68.6	176.0	713.8	1403.5	1919.3	2122.2	2137.3	1918.3	1432.0	824.7
35°	77.9	199.9	850.5	1596.3	2184.9	2464.4	2463.5	2203.5	1635.6	961.6
37.5°	78.6	223.9	974.3	1793.6	2521.3	2834.3	2865.3	2578.7	1881.7	1131.0
40°	76.9	250.7	1131.0	2101.2	3127.5	3607.7	3635.0	3273.7	2375.3	1421.1
42.5°	78.9	297.3	1385.4	2669.3	4134.0	4823.7	4876.4	4496.5	3282.8	2012.8
45°	89.1	385.0	1918.3	3619.6	5568.7	6409.5	6391.9	5844.8	4338.6	2913.6
47.5°	123.0	599.6	2708.3	4544.6	6485.7	7234.4	7249.5	6580.9	4954.8	3606.2
50°	189.2	917.4	3372.1	5033.6	6879.9	7631.1	7617.0	6844.3	5188.9	3947.3
52.5°	246.1	1147.4	3705.1	5205.2	6930.5	7827.1	7826.2	6913.6	5225.3	3976.6
55°	260.2	1164.7	3707.8	5214.5	7043.7	8083.7	8115.9	7084.3	5272.4	3848.6
57.5°	254.6	1031.2	3553.0	5268.2	7245.4	8282.2	8283.9	7249.5	5392.0	3770.3
58°	249.7	1010.2	3521.8	5298.7	7280.1	8290.5	8286.3	7257.1	5489.4	3767.3
60°	222.4	877.1	3399.9	5376.6	7228.6	8120.1	8081.3	7091.8	5475.0	3737.3
62.5°	174.8	684.3	3280.1	5286.5	6676.3	7295.2	7311.3	6278.7	4991.1	3562.3
65°	139.2	510.0	3030.1	4637.2	5497.7	5990.8	6050.9	5105.6	4166.0	3016.4
67.5°	110.8	368.6	2541.8	3691.9	4350.3	4999.9	5043.6	4286.6	3227.6	2311.1
70°	90.1	249.3	1754.5	2700.0	3588.2	4318.6	4321.3	3561.1	2409.0	1514.3
72.5°	79.8	172.6	1018.5	1969.1	2909.5	3519.1	3448.0	2889.7	1851.4	896.9
75°	69.1	114.5	499.5	1203.8	1764.0	1776.0	1803.1	1340.5	925.5	426.5
77.5°	56.9	81.3	196.8	328.8	529.0	677.2	702.3	532.2	307.8	105.0
80°	39.1	38.6	53.0	100.8	151.4	189.7	177.0	137.0	80.6	40.3
82.5°	16.8	18.3	23.9	28.8	23.4	22.7	21.7	13.9	10.7	8.3
85°	5.4	4.9	5.1	5.1	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: P1049569

CATALOG NUMBER: GALN-SA1A-730-U-LBC

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
14.2	0°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
13.2	2.5°	12.9	12.9	12.5	12.0	11.7	11.2	11.0	10.7	10.5	10.3
14.2	5°	13.7	13.4	12.7	12.0	11.2	10.5	10.0	9.5	9.0	8.8
15.6	7.5°	14.9	14.4	12.9	11.7	10.7	9.8	9.3	8.5	8.1	7.3
17.3	10°	16.4	15.4	13.4	12.0	10.5	9.3	8.5	7.8	7.1	6.1
19.8	12.5°	18.3	16.6	14.2	11.7	10.0	8.5	7.8	6.8	6.1	5.4
22.9	15°	20.0	17.8	14.4	11.7	9.5	7.8	6.8	5.9	5.1	4.2
28.8	17.5°	22.5	18.8	14.2	11.0	8.8	6.8	5.9	5.1	3.9	2.4
42.7	20°	26.6	19.5	13.7	10.3	7.6	5.6	4.4	3.4	1.7	0.5
64.2	22.5°	33.2	21.5	13.2	9.3	6.6	4.4	2.9	1.2	0.0	0.0
97.7	25°	45.9	24.9	13.2	8.8	5.9	3.2	1.0	0.0	0.0	0.0
138.7	27.5°	61.0	29.5	13.2	7.6	4.6	1.7	0.0	0.0	0.0	0.0
189.0	30°	76.4	34.7	13.2	6.6	3.7	0.2	0.0	0.0	0.0	0.0
232.7	32.5°	91.1	39.1	13.4	5.6	2.4	0.0	0.0	0.0	0.0	0.0
293.2	35°	106.0	39.8	13.2	4.9	1.5	0.0	0.0	0.0	0.0	0.0
367.4	37.5°	125.0	38.3	12.5	4.4	0.7	0.0	0.0	0.0	0.0	0.0
483.4	40°	153.8	39.1	11.7	4.2	0.2	0.0	0.0	0.0	0.0	0.0
690.1	42.5°	207.0	42.2	10.7	4.2	0.0	0.0	0.0	0.0	0.0	0.0
1099.3	45°	357.9	56.6	9.8	4.4	0.0	0.0	0.0	0.0	0.0	0.0
1650.3	47.5°	592.0	101.8	9.5	4.4	0.0	0.0	0.0	0.0	0.0	0.0
1987.9	50°	755.6	128.2	10.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0
2030.1	52.5°	754.3	142.8	10.5	4.9	1.0	0.0	0.0	0.0	0.0	0.0
1871.2	55°	670.6	145.5	11.2	5.4	3.2	0.0	0.0	0.0	0.0	0.0
1608.1	57.5°	560.5	132.8	12.9	6.6	5.9	0.0	0.0	0.0	0.0	0.0
1566.8	58°	541.0	126.9	13.4	6.8	6.3	0.0	0.0	0.0	0.0	0.0
1359.0	60°	443.3	103.5	17.1	8.5	8.5	0.0	0.0	0.0	0.0	0.0
1114.2	62.5°	306.1	90.3	19.5	11.0	8.8	0.0	0.0	0.0	0.0	0.0
821.5	65°	216.5	81.5	21.2	11.7	7.1	0.0	0.0	0.0	0.0	0.0
583.7	67.5°	161.9	75.2	23.4	12.0	3.7	0.0	0.0	0.0	0.0	0.0
366.2	70°	124.0	70.6	28.8	12.7	1.0	0.0	0.0	0.0	0.0	0.0
218.2	72.5°	101.1	65.2	34.9	13.2	0.0	0.0	0.0	0.0	0.0	0.0
130.9	75°	83.7	58.8	33.7	14.4	0.0	0.0	0.0	0.0	0.0	0.0
69.8	77.5°	55.7	45.7	30.8	14.4	0.0	0.0	0.0	0.0	0.0	0.0
24.9	80°	19.5	18.1	23.9	12.7	0.0	0.0	0.0	0.0	0.0	0.0
5.1	82.5°	2.9	2.4	3.4	4.4	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: P1049569

CATALOG NUMBER: GALN-SA1A-730-U-LBC

CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
14.2	0°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
10.0	2.5°	10.0	10.0	9.8	10.0	10.0	10.5	11.7	13.4	15.4	16.1
8.5	5°	8.3	8.1	7.8	7.8	7.8	8.5	9.5	11.5	13.7	14.6
7.1	7.5°	6.8	6.6	6.3	6.1	6.1	6.6	7.8	10.0	12.2	13.2
5.9	10°	5.6	5.1	4.9	4.6	4.6	5.1	6.3	8.5	11.0	12.0
4.9	12.5°	4.6	3.9	3.4	3.2	2.9	3.7	4.9	6.8	9.5	10.7
3.7	15°	3.2	2.4	1.7	1.5	1.2	2.0	3.2	5.4	8.1	9.5
2.0	17.5°	1.7	0.7	0.2	0.0	0.0	0.5	1.5	3.9	6.6	7.8
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.9	6.1
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.9	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: P1049569

CATALOG NUMBER: GALN-SA1A-730-U-LBC

CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
14.2	0°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
16.8	2.5°	17.3	17.1	16.6	16.1	16.1	16.1	16.8	17.6	18.3	18.3
15.1	5°	16.1	16.1	15.9	15.4	15.4	15.6	16.6	17.8	18.8	19.0
13.9	7.5°	14.9	15.4	14.9	14.6	14.9	15.1	16.1	17.6	19.0	19.5
12.9	10°	14.2	14.4	14.4	14.2	14.2	14.6	15.6	17.6	19.5	20.3
11.7	12.5°	13.2	13.7	13.4	13.4	13.4	13.9	15.1	17.3	20.0	21.0
10.5	15°	12.2	12.9	12.9	12.7	12.7	12.9	14.6	17.1	20.8	22.5
9.0	17.5°	11.2	12.0	12.2	11.7	11.7	12.2	13.9	17.1	21.2	24.2
7.3	20°	9.3	10.5	11.2	10.5	10.5	11.0	12.7	16.1	21.5	25.9
5.4	22.5°	7.3	8.5	9.5	9.3	9.3	9.5	11.7	15.4	21.7	28.8
3.2	25°	5.4	6.6	7.3	7.8	7.8	8.5	10.7	14.9	22.7	34.9
1.5	27.5°	3.2	4.6	5.6	6.1	6.3	7.3	10.0	14.4	24.4	43.7
0.0	30°	1.5	2.7	3.9	4.9	4.9	6.6	9.3	13.9	26.6	56.4
0.0	32.5°	0.0	1.2	2.0	3.4	3.7	5.4	8.5	13.4	29.8	68.6
0.0	35°	0.0	0.0	1.0	2.7	2.7	4.4	7.8	12.9	34.7	77.9
0.0	37.5°	0.0	0.0	0.0	2.0	2.2	3.9	7.6	12.7	35.6	78.6
0.0	40°	0.0	0.0	0.0	1.5	1.7	3.7	7.6	12.9	32.2	76.9
0.0	42.5°	0.0	0.0	0.0	1.0	1.2	3.7	7.6	13.4	29.1	78.9
0.0	45°	0.0	0.0	0.0	0.7	1.0	3.9	7.3	13.2	27.3	89.1
0.0	47.5°	0.0	0.0	0.0	1.0	1.5	3.9	7.1	12.9	27.6	123.0
0.0	50°	0.0	0.0	0.0	1.2	1.7	3.9	7.3	12.5	30.3	189.2
0.0	52.5°	0.0	0.0	0.0	1.0	1.5	4.4	8.1	12.2	33.0	246.1
0.0	55°	0.0	0.0	0.0	0.2	0.7	5.6	8.8	12.2	37.1	260.2
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	6.3	10.0	12.9	43.9	254.6
0.0	58°	0.0	0.0	0.0	0.0	0.0	6.3	10.3	12.9	44.4	249.7
0.0	60°	0.0	0.0	0.0	0.0	0.0	6.3	11.2	14.4	47.8	222.4
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	5.4	13.4	18.1	49.8	174.8
0.0	65°	0.0	0.0	0.0	0.0	0.0	4.4	15.9	19.8	51.3	139.2
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	4.2	16.4	20.0	52.0	110.8
0.0	70°	0.0	0.0	0.0	0.0	0.0	4.4	16.1	21.5	54.4	90.1
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	4.9	14.6	23.7	54.4	79.8
0.0	75°	0.0	0.0	0.0	0.0	0.0	5.1	13.7	26.6	49.6	69.1
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	4.9	13.4	31.0	44.2	56.9
0.0	80°	0.5	0.7	0.7	0.5	0.5	4.2	13.2	31.5	37.6	39.1
0.2	82.5°	1.5	2.0	1.7	1.2	1.2	3.7	11.7	26.4	19.5	16.8
1.5	85°	2.7	3.2	3.2	2.7	2.7	3.4	7.3	9.5	6.6	5.4
2.7	87.5°	3.7	4.2	4.2	3.7	3.7	3.4	3.2	2.9	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: SP1-2407-184-4

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

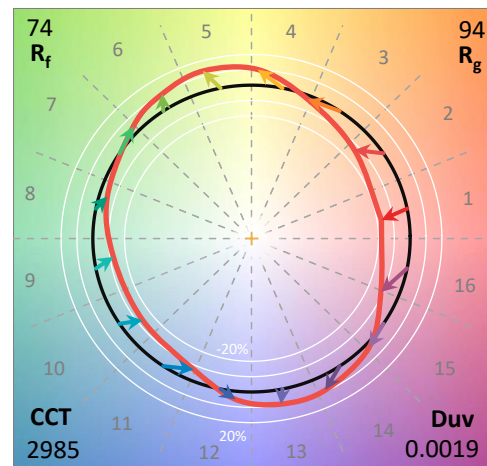
Test Information

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
 CIE u' : 0.2504
 CIE v' : 0.5243
 Duv: 0.0019
 CIE x: 0.4408
 CIE y: 0.4101
 CIE z: 0.1491
 Peak Wavelength (nm): 595
 Dominant Wavelength (nm): 582
 Purity: 55.41818
 R_f: 73.8
 R_g: 94.4

CRI (Ra): 70.8
 R1: 66.3
 R2: 80.6
 R3: 94.5
 R4: 68.2
 R5: 66.5
 R6: 74.7
 R7: 76.2
 R8: 39.6
 R9: -43.2
 R10: 57.6
 R11: 64.8
 R12: 53.5
 R13: 68.7
 R14: 97.0
 R15: 56.4



Test Conditions

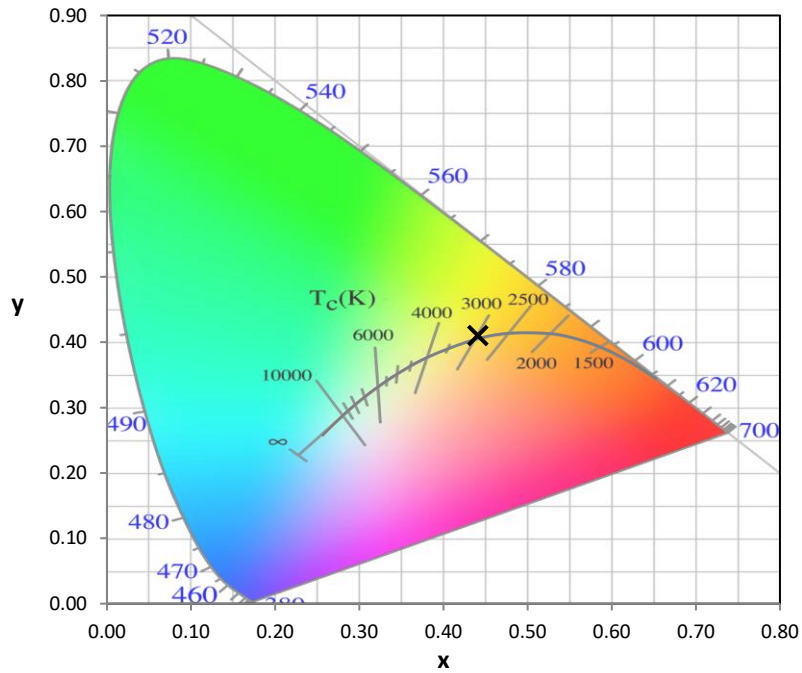
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

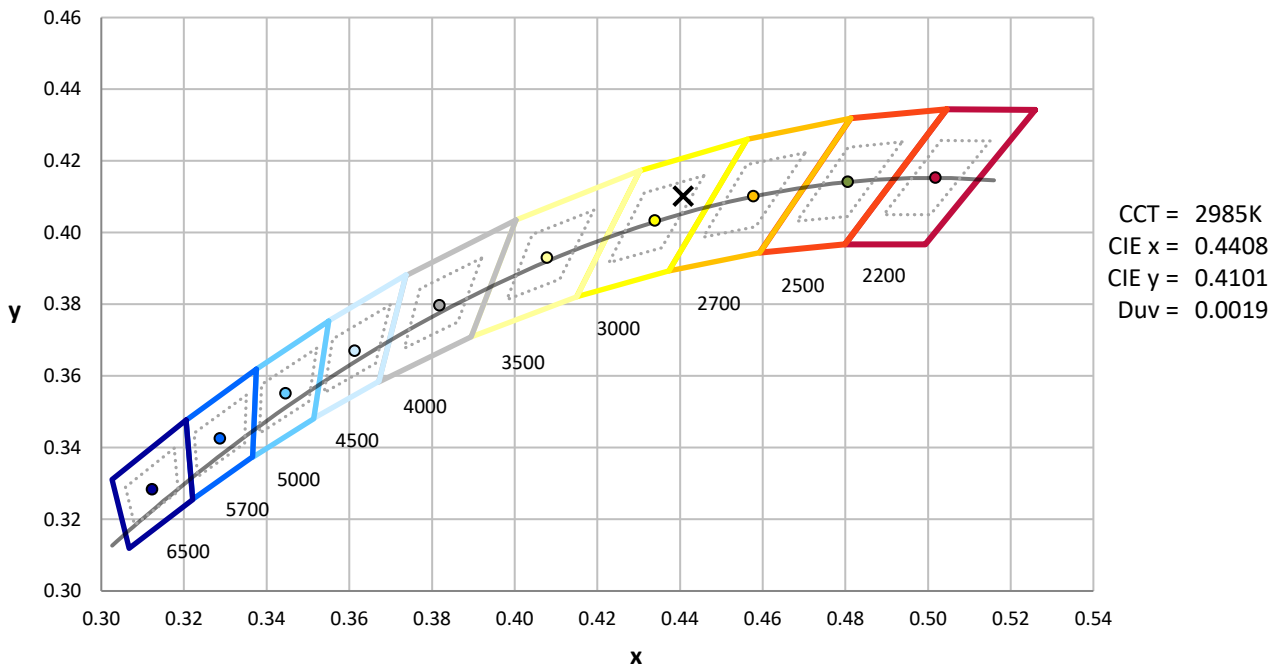
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



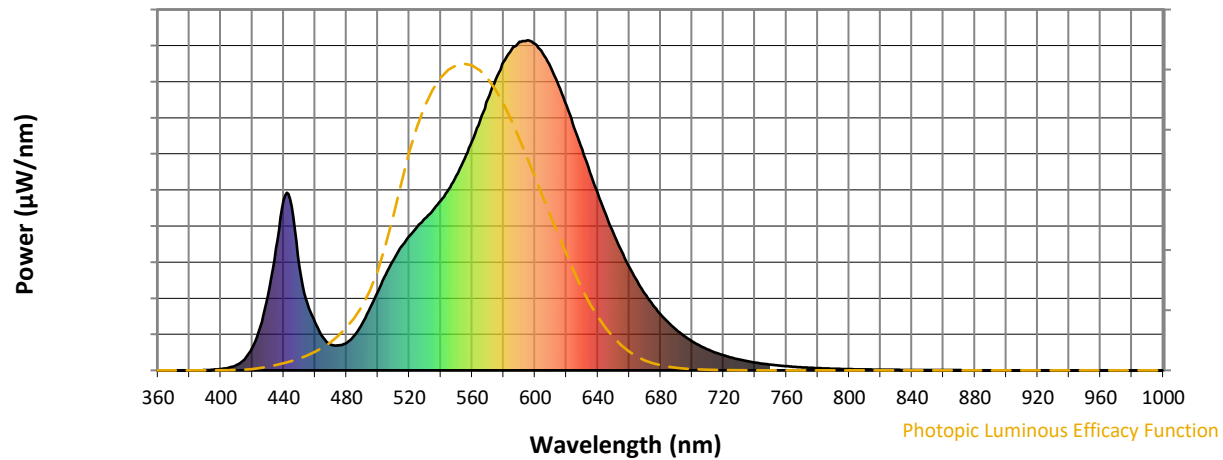
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

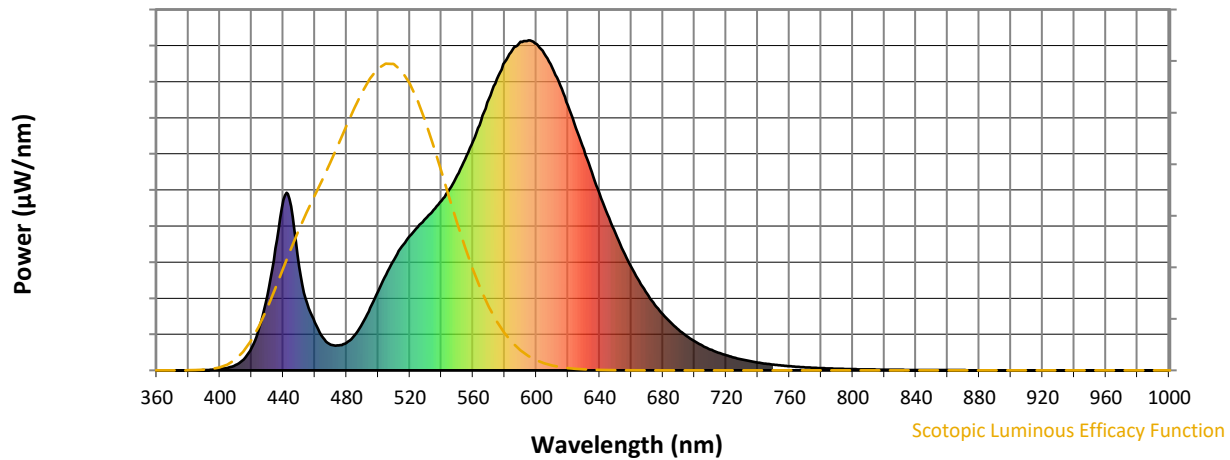


Photopic Lumens: NR

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



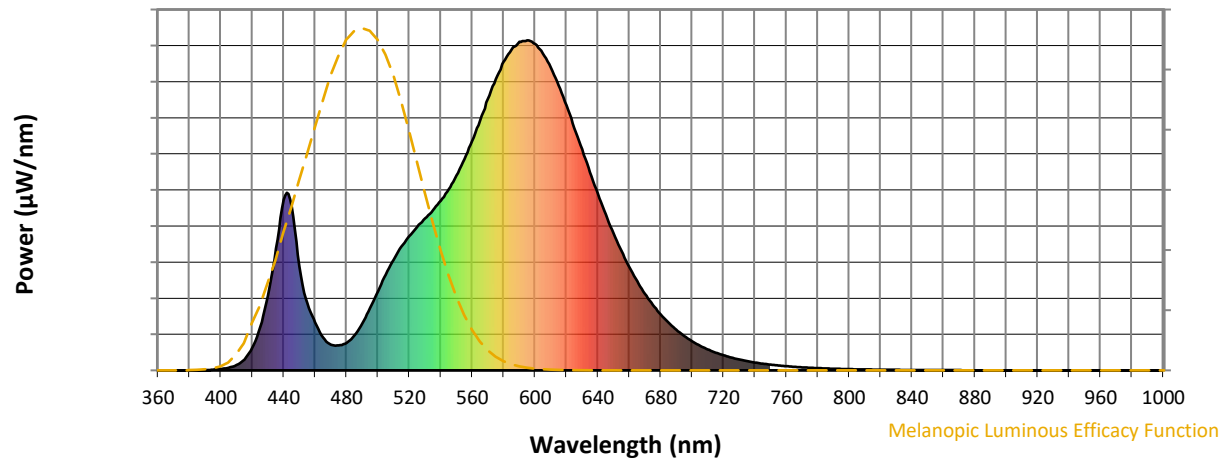
Scotopic Lumens: NR

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

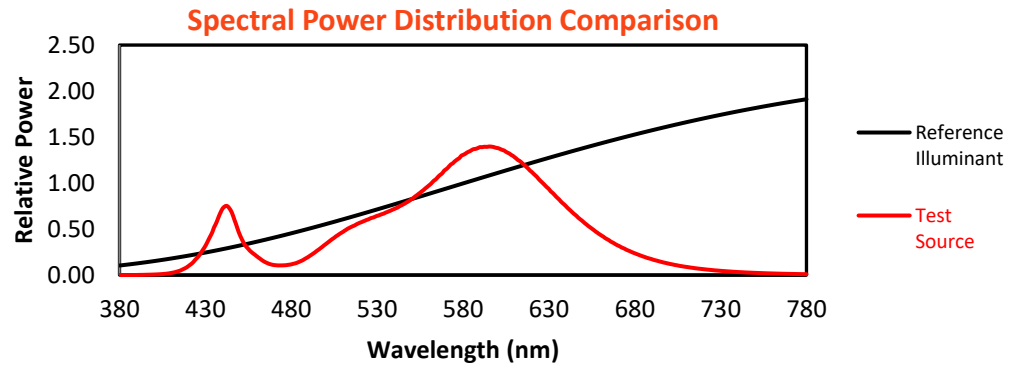
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	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

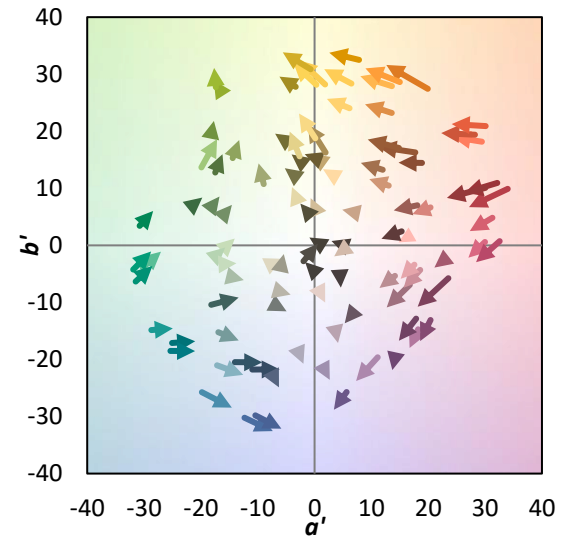
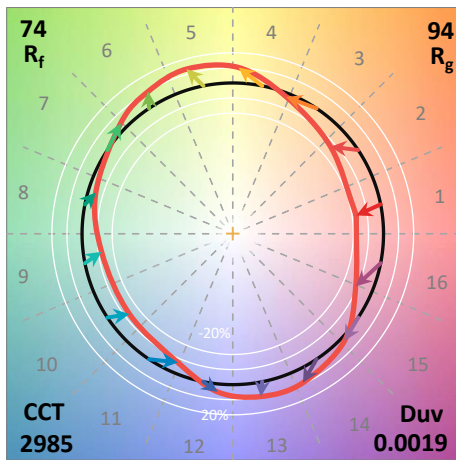
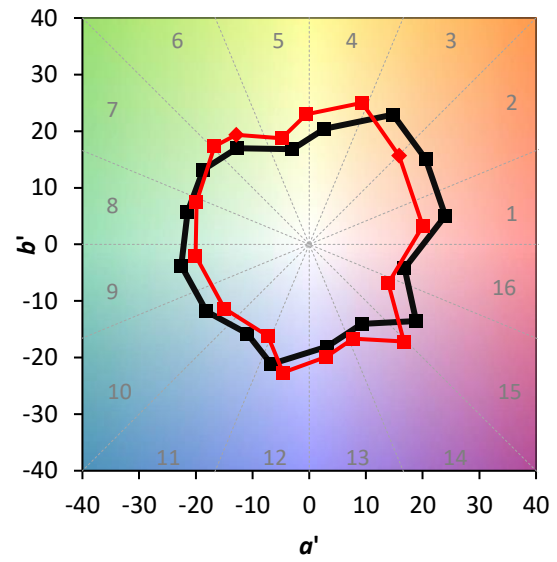
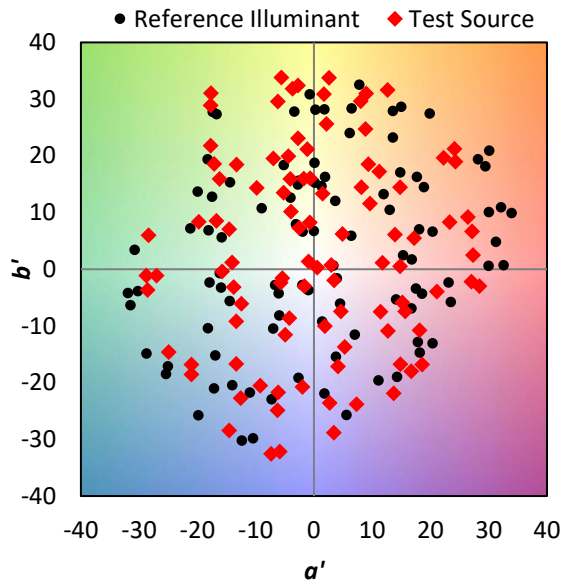
TM-30-18

Summary

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

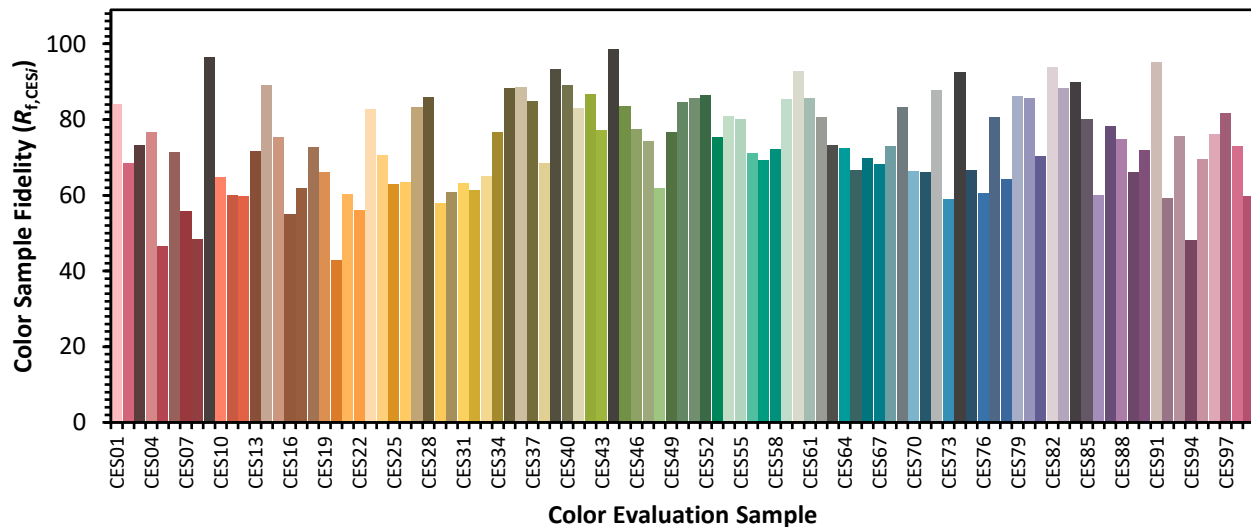


Color Vector Graphics

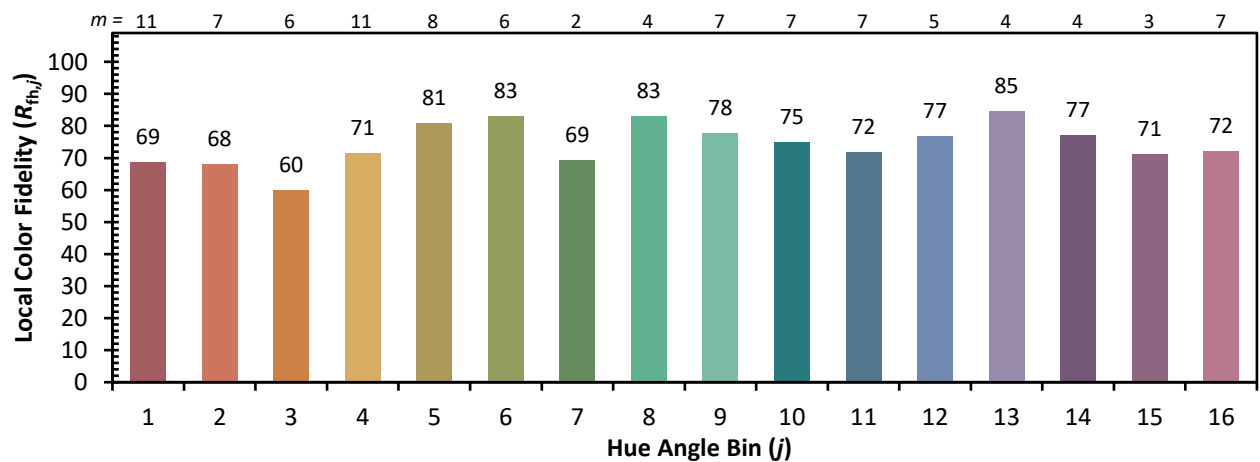
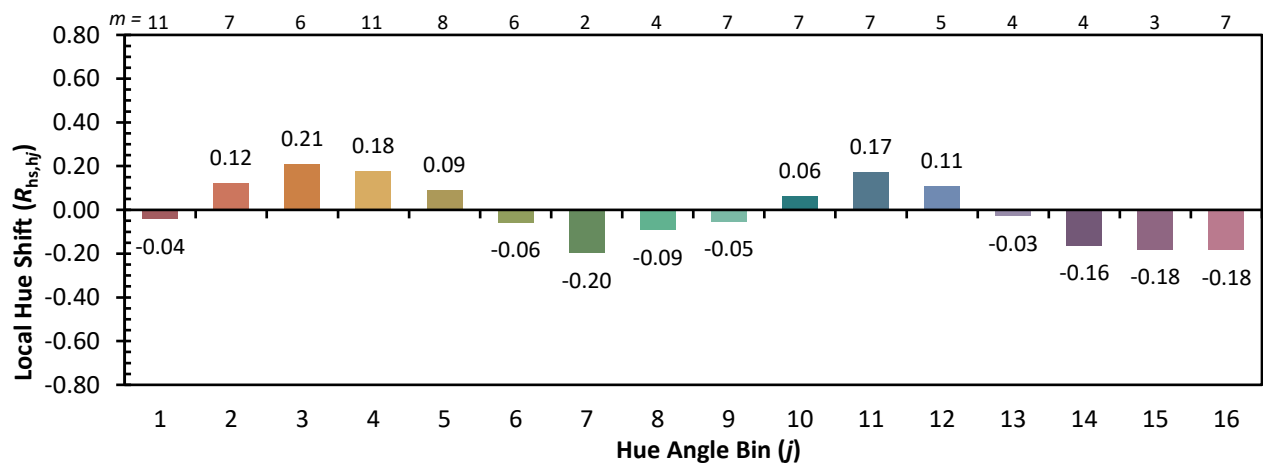
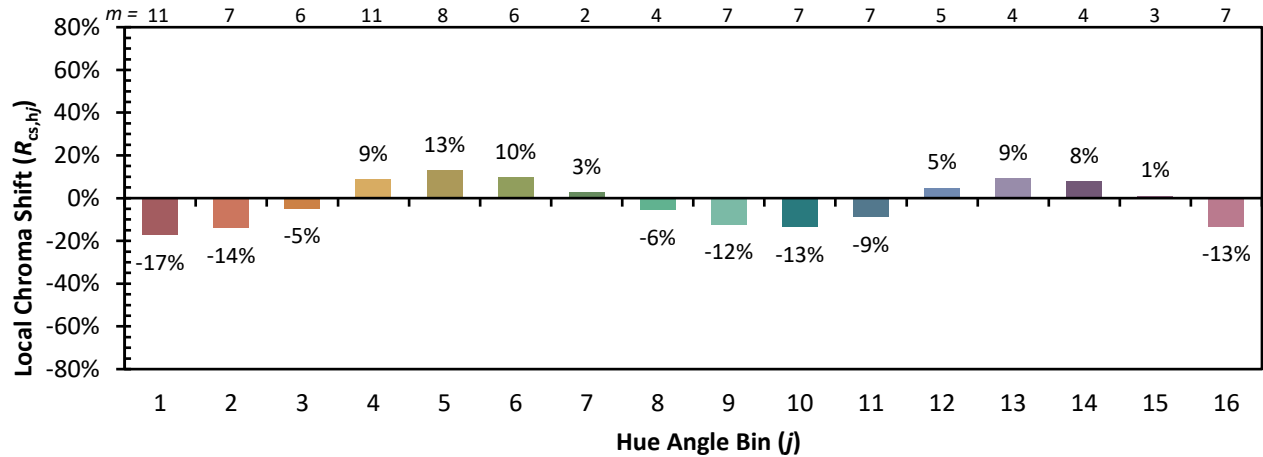


Individual Sample Fidelity Index ($R_{f,i}$)

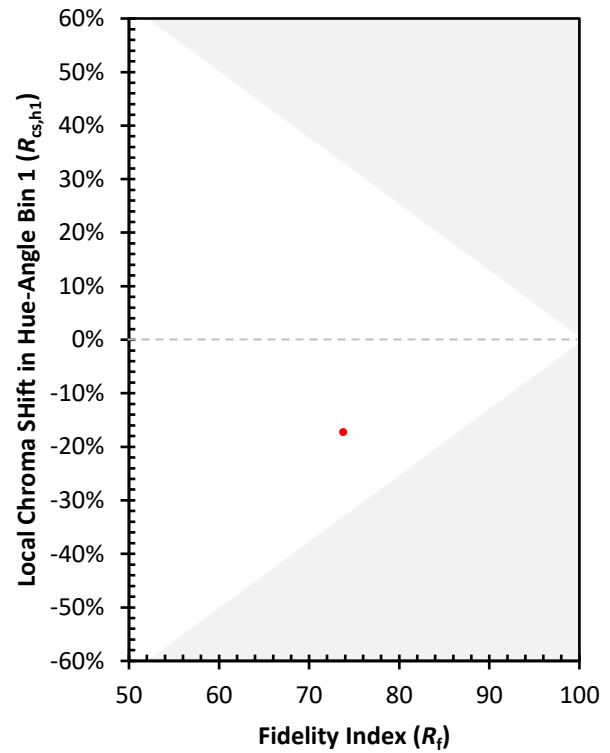
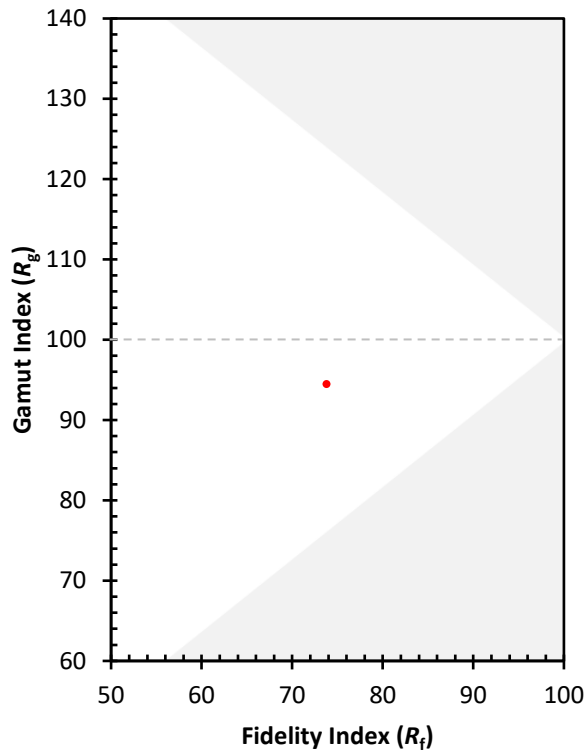
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 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)