

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: P1049570

Luminaire Tested: **GALN-SA1B-730-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049570
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-730-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 1xLight Square PACKAGE
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

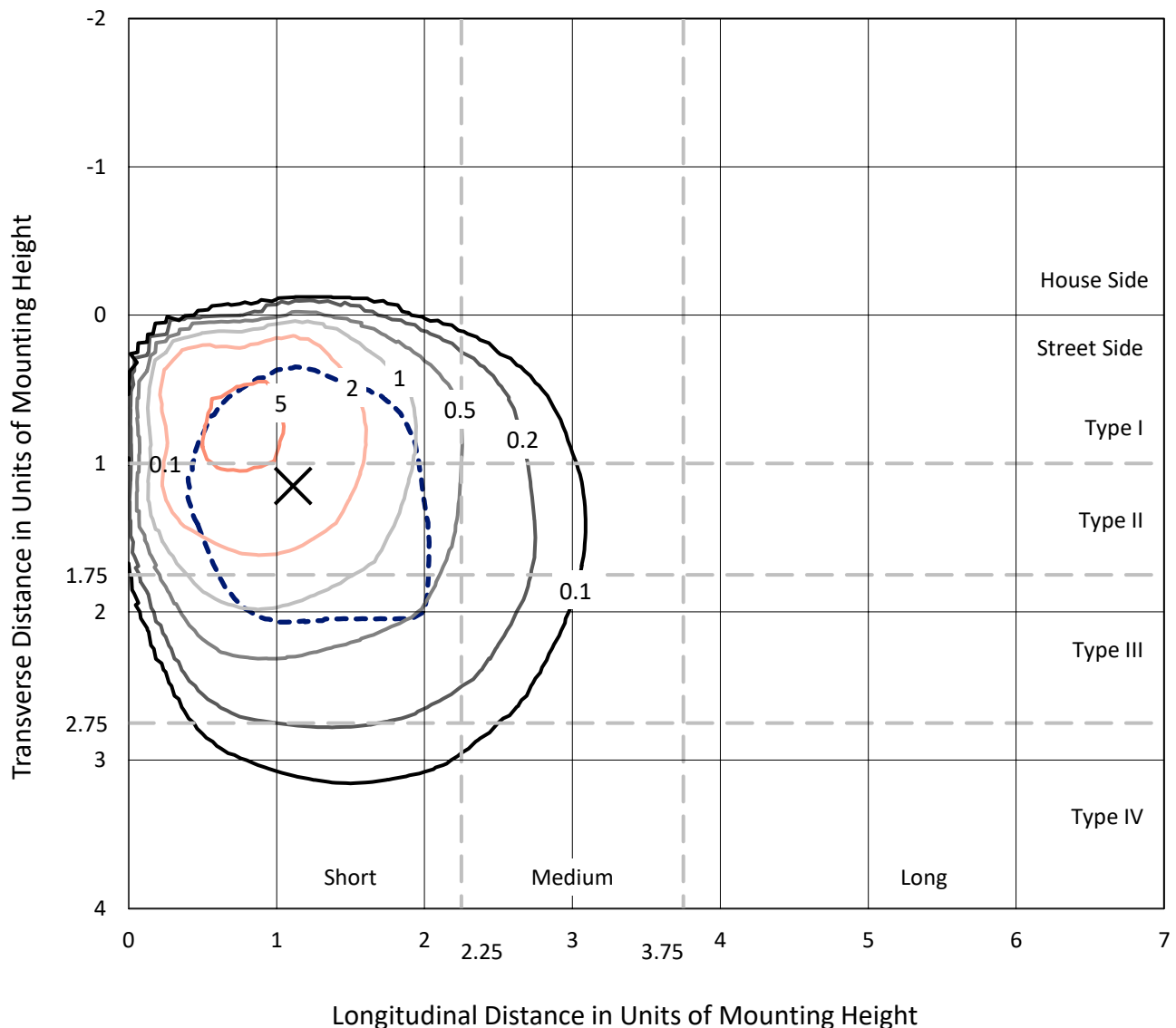
Lumens per Lamp: N/A
Luminaire Lumens: 4039.6 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 38.7
Input Voltage (V): 120
Input Current (A_{in}): 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

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Iso-Footcandle Lines of Horizontal Illumination

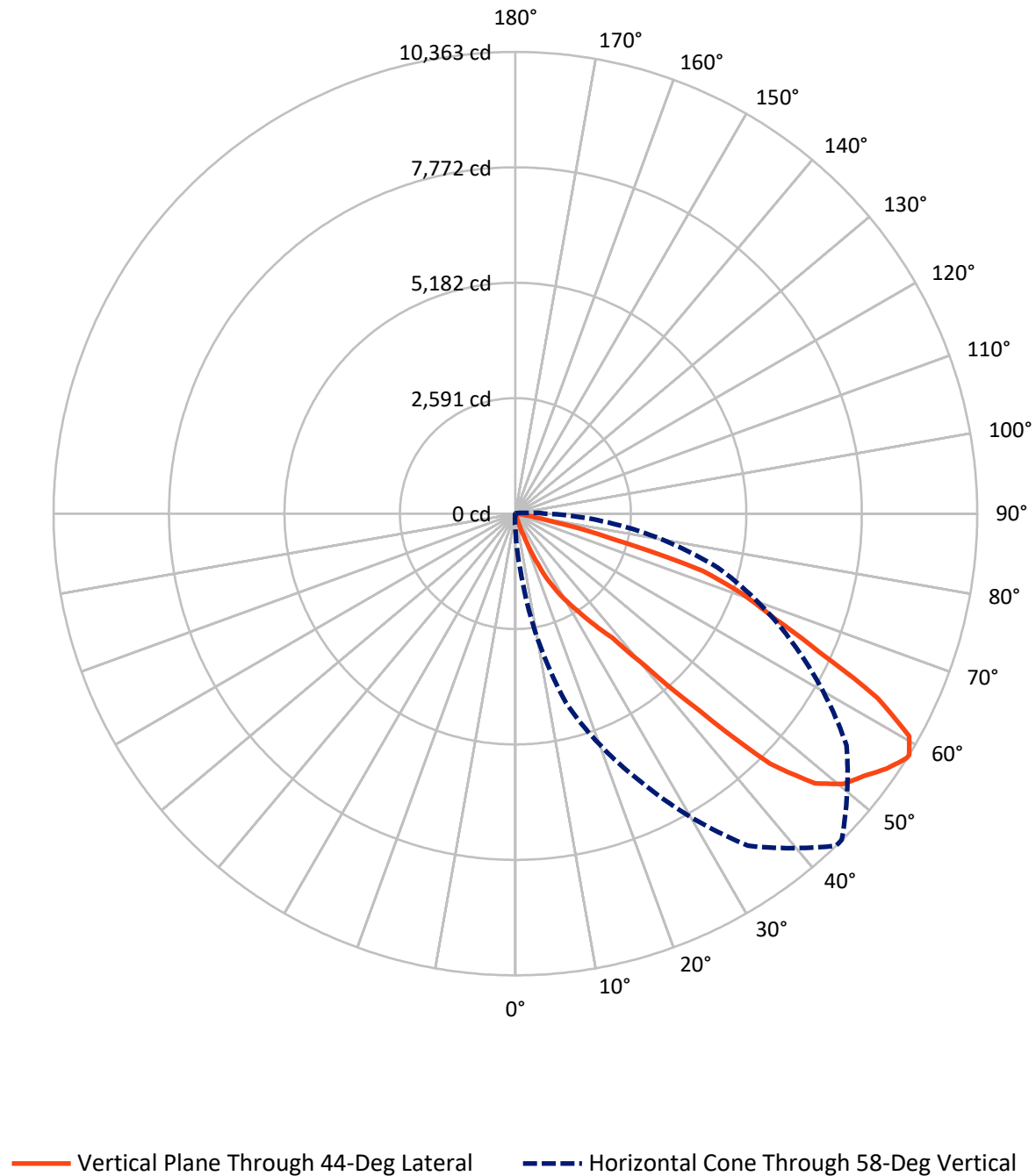
× Max cd
- - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27.6	0.0	27.6
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	4012.0	0.0	4012.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	4039.6	0.0	4039.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.0
10°-20°	8.9	0.2
20°-30°	95.7	2.4
30°-40°	283.0	7.0
40°-50°	843.5	20.9
50°-60°	1338.5	33.1
60°-70°	1116.4	27.6
70°-80°	344.3	8.5
80°-90°	7.6	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°	4039.6	100.0
0°-180°	4039.6	100.0



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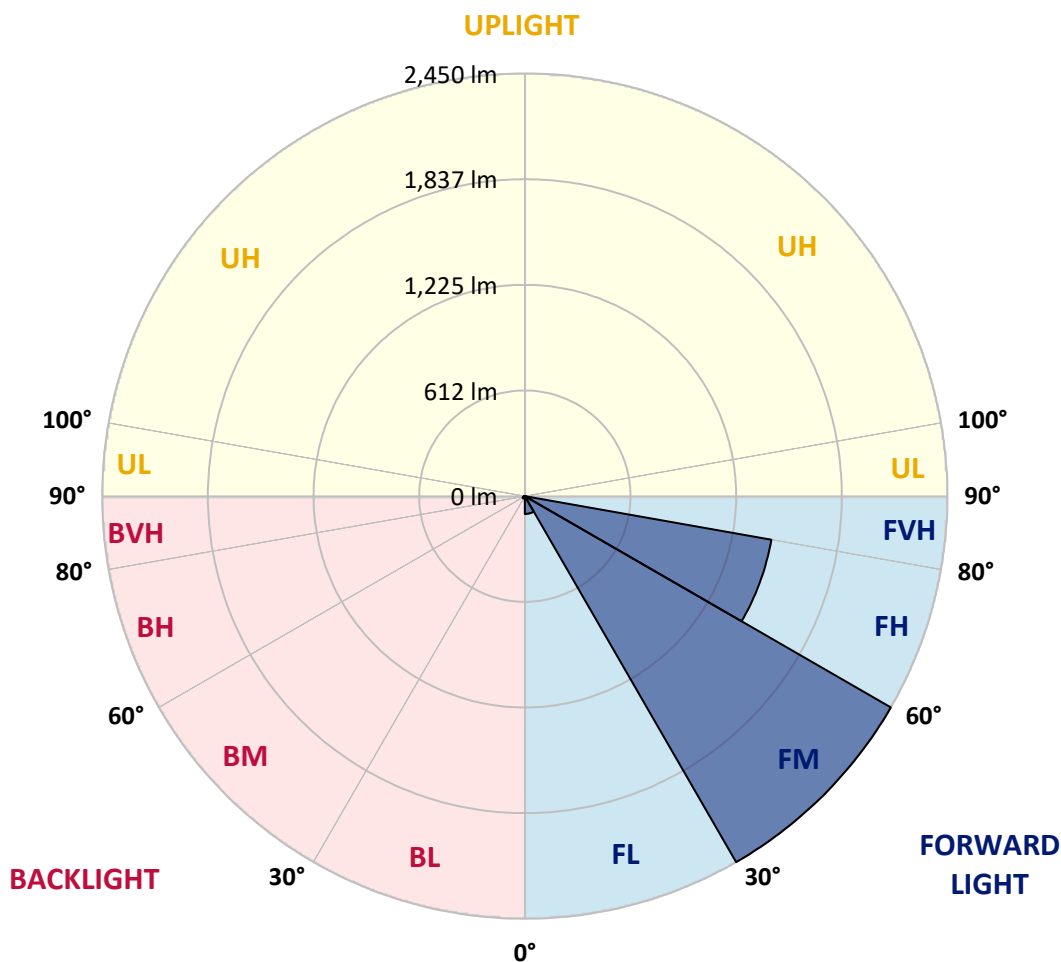
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	103.4	2.6			
FM	(30°-60°)	2449.9	60.6			
FH	(60°-80°)	1451.4	35.9			G1/1800
FVH	(80°-90°)	7.3	0.2			G0/10
BL	(0°-30°)	2.7	0.1	B0/110		
BM	(30°-60°)	15.1	0.4	B0/220		
BH	(60°-80°)	9.4	0.2	B0/110		G0/110
BVH	(80°-90°)	0.4	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7
2.5°	22.9	22.9	22.0	20.8	19.5	18.3	18.0	17.4	17.1	16.8
5°	23.8	23.8	23.5	22.6	21.4	20.4	20.4	19.5	18.9	18.3
7.5°	24.4	24.7	25.3	25.0	24.4	23.5	23.5	22.9	22.0	20.4
10°	25.3	26.2	27.5	28.1	28.4	28.4	28.1	27.8	26.2	24.1
12.5°	26.2	28.1	31.1	34.2	36.0	38.4	38.1	37.5	33.6	29.0
15°	28.1	30.8	37.2	46.1	59.8	68.4	71.7	68.7	55.5	39.1
17.5°	30.2	34.8	54.0	96.4	158.1	187.4	205.1	190.7	126.3	74.2
20°	32.3	42.4	100.4	249.9	410.1	505.9	532.5	491.0	315.2	141.3
22.5°	36.0	59.5	203.5	516.6	883.7	1027.5	1054.6	921.9	595.4	278.9
25°	43.6	86.4	350.9	841.9	1318.9	1561.5	1550.2	1376.3	965.8	445.5
27.5°	54.6	125.7	530.7	1196.2	1735.7	1949.6	1975.3	1760.1	1287.5	655.2
30°	70.5	174.2	723.5	1480.0	2069.9	2301.2	2305.5	2083.0	1575.2	839.2
32.5°	85.7	220.0	892.3	1754.3	2399.1	2652.7	2671.6	2397.9	1790.0	1030.8
35°	97.3	249.9	1063.2	1995.4	2731.2	3080.6	3079.3	2754.3	2044.5	1202.0
37.5°	98.3	279.8	1217.9	2242.0	3151.7	3542.9	3581.6	3223.4	2352.1	1413.8
40°	96.1	313.4	1413.8	2626.5	3909.4	4509.6	4543.8	4092.2	2969.2	1776.3
42.5°	98.6	371.7	1731.8	3336.6	5167.5	6029.6	6095.5	5620.7	4103.4	2516.0
45°	111.4	481.2	2397.9	4524.6	6960.9	8011.9	7989.9	7306.1	5423.2	3642.0
47.5°	153.8	749.5	3385.4	5680.8	8107.1	9043.0	9061.9	8226.1	6193.5	4507.8
50°	236.5	1146.8	4215.1	6292.0	8599.9	9538.9	9521.2	8555.4	6486.1	4934.1
52.5°	307.6	1434.2	4631.4	6506.6	8663.1	9783.9	9782.7	8642.0	6531.6	4970.7
55°	325.3	1455.9	4634.7	6518.1	8804.7	10104.7	10144.9	8855.3	6590.5	4810.8
57.5°	318.3	1289.0	4441.3	6585.3	9056.7	10352.7	10354.9	9061.9	6740.0	4712.8
58°	312.2	1262.7	4402.2	6623.4	9100.1	10363.1	10357.9	9071.4	6861.8	4709.2
60°	278.0	1096.4	4249.9	6720.8	9035.7	10150.1	10101.6	8864.8	6843.7	4671.6
62.5°	218.5	855.4	4100.1	6608.2	8345.4	9119.0	9139.1	7848.3	6238.9	4452.8
65°	173.9	637.5	3787.6	5796.5	6872.1	7488.5	7563.6	6382.0	5207.5	3770.5
67.5°	138.5	460.8	3177.3	4614.9	5437.9	6249.9	6304.5	5358.2	4034.5	2888.9
70°	112.6	311.6	2193.2	3375.0	4485.2	5398.2	5401.6	4451.3	3011.3	1892.9
72.5°	99.8	215.7	1273.1	2461.4	3636.9	4398.8	4310.0	3612.1	2314.3	1121.1
75°	86.4	143.1	624.4	1504.7	2205.1	2220.0	2253.9	1675.6	1156.8	533.1
77.5°	71.1	101.6	246.0	411.0	661.3	846.5	877.9	665.2	384.8	131.2
80°	48.8	48.2	66.2	126.0	189.2	237.1	221.2	171.2	100.7	50.4
82.5°	21.1	22.9	29.9	36.0	29.3	28.4	27.2	17.4	13.4	10.4
85°	6.7	6.1	6.4	6.4	5.2	4.0	4.0	1.8	0.0	0.0
87.5°	3.4	2.7	2.7	2.4	1.5	0.6	0.3	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

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
17.7	0°	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7
16.5	2.5°	16.2	16.2	15.6	15.0	14.6	14.0	13.7	13.4	13.1	12.8
17.7	5°	17.1	16.8	15.9	15.0	14.0	13.1	12.5	11.9	11.3	11.0
19.5	7.5°	18.6	18.0	16.2	14.6	13.4	12.2	11.6	10.7	10.1	9.2
21.7	10°	20.4	19.2	16.8	15.0	13.1	11.6	10.7	9.8	8.8	7.6
24.7	12.5°	22.9	20.8	17.7	14.6	12.5	10.7	9.8	8.5	7.6	6.7
28.7	15°	25.0	22.3	18.0	14.6	11.9	9.8	8.5	7.3	6.4	5.2
36.0	17.5°	28.1	23.5	17.7	13.7	11.0	8.5	7.3	6.4	4.9	3.1
53.4	20°	33.3	24.4	17.1	12.8	9.5	7.0	5.5	4.3	2.1	0.6
80.3	22.5°	41.5	26.9	16.5	11.6	8.2	5.5	3.7	1.5	0.0	0.0
122.1	25°	57.4	31.1	16.5	11.0	7.3	4.0	1.2	0.0	0.0	0.0
173.3	27.5°	76.3	36.9	16.5	9.5	5.8	2.1	0.0	0.0	0.0	0.0
236.2	30°	95.5	43.3	16.5	8.2	4.6	0.3	0.0	0.0	0.0	0.0
290.8	32.5°	113.8	48.8	16.8	7.0	3.1	0.0	0.0	0.0	0.0	0.0
366.5	35°	132.4	49.7	16.5	6.1	1.8	0.0	0.0	0.0	0.0	0.0
459.3	37.5°	156.2	47.9	15.6	5.5	0.9	0.0	0.0	0.0	0.0	0.0
604.2	40°	192.2	48.8	14.6	5.2	0.3	0.0	0.0	0.0	0.0	0.0
862.7	42.5°	258.8	52.8	13.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0
1374.1	45°	447.4	70.8	12.2	5.5	0.0	0.0	0.0	0.0	0.0	0.0
2062.9	47.5°	740.0	127.3	11.9	5.5	0.0	0.0	0.0	0.0	0.0	0.0
2484.9	50°	944.5	160.2	12.5	5.8	0.0	0.0	0.0	0.0	0.0	0.0
2537.7	52.5°	942.9	178.5	13.1	6.1	1.2	0.0	0.0	0.0	0.0	0.0
2339.0	55°	838.3	181.9	14.0	6.7	4.0	0.0	0.0	0.0	0.0	0.0
2010.1	57.5°	700.6	166.0	16.2	8.2	7.3	0.0	0.0	0.0	0.0	0.0
1958.5	58°	676.2	158.7	16.8	8.5	7.9	0.0	0.0	0.0	0.0	0.0
1698.8	60°	554.2	129.4	21.4	10.7	10.7	0.0	0.0	0.0	0.0	0.0
1392.7	62.5°	382.7	112.9	24.4	13.7	11.0	0.0	0.0	0.0	0.0	0.0
1026.9	65°	270.7	101.9	26.5	14.6	8.8	0.0	0.0	0.0	0.0	0.0
729.6	67.5°	202.3	94.0	29.3	15.0	4.6	0.0	0.0	0.0	0.0	0.0
457.7	70°	155.0	88.2	36.0	15.9	1.2	0.0	0.0	0.0	0.0	0.0
272.8	72.5°	126.3	81.5	43.6	16.5	0.0	0.0	0.0	0.0	0.0	0.0
163.6	75°	104.7	73.5	42.1	18.0	0.0	0.0	0.0	0.0	0.0	0.0
87.3	77.5°	69.6	57.1	38.4	18.0	0.0	0.0	0.0	0.0	0.0	0.0
31.1	80°	24.4	22.6	29.9	15.9	0.0	0.0	0.0	0.0	0.0	0.0
6.4	82.5°	3.7	3.1	4.3	5.5	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

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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
17.7	0°	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7
12.5	2.5°	12.5	12.5	12.2	12.5	12.5	13.1	14.6	16.8	19.2	20.1
10.7	5°	10.4	10.1	9.8	9.8	9.8	10.7	11.9	14.3	17.1	18.3
8.8	7.5°	8.5	8.2	7.9	7.6	7.6	8.2	9.8	12.5	15.3	16.5
7.3	10°	7.0	6.4	6.1	5.8	5.8	6.4	7.9	10.7	13.7	15.0
6.1	12.5°	5.8	4.9	4.3	4.0	3.7	4.6	6.1	8.5	11.9	13.4
4.6	15°	4.0	3.1	2.1	1.8	1.5	2.4	4.0	6.7	10.1	11.9
2.4	17.5°	2.1	0.9	0.3	0.0	0.0	0.6	1.8	4.9	8.2	9.8
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	6.1	7.6
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.7	5.2
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.7
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
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	0.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	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



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CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
17.7	0°	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7
21.1	2.5°	21.7	21.4	20.8	20.1	20.1	20.1	21.1	22.0	22.9	22.9
18.9	5°	20.1	20.1	19.8	19.2	19.2	19.5	20.8	22.3	23.5	23.8
17.4	7.5°	18.6	19.2	18.6	18.3	18.6	18.9	20.1	22.0	23.8	24.4
16.2	10°	17.7	18.0	18.0	17.7	17.7	18.3	19.5	22.0	24.4	25.3
14.6	12.5°	16.5	17.1	16.8	16.8	16.8	17.4	18.9	21.7	25.0	26.2
13.1	15°	15.3	16.2	16.2	15.9	15.9	16.2	18.3	21.4	25.9	28.1
11.3	17.5°	14.0	15.0	15.3	14.6	14.6	15.3	17.4	21.4	26.5	30.2
9.2	20°	11.6	13.1	14.0	13.1	13.1	13.7	15.9	20.1	26.9	32.3
6.7	22.5°	9.2	10.7	11.9	11.6	11.6	11.9	14.6	19.2	27.2	36.0
4.0	25°	6.7	8.2	9.2	9.8	9.8	10.7	13.4	18.6	28.4	43.6
1.8	27.5°	4.0	5.8	7.0	7.6	7.9	9.2	12.5	18.0	30.5	54.6
0.0	30°	1.8	3.4	4.9	6.1	6.1	8.2	11.6	17.4	33.3	70.5
0.0	32.5°	0.0	1.5	2.4	4.3	4.6	6.7	10.7	16.8	37.2	85.7
0.0	35°	0.0	0.0	1.2	3.4	3.4	5.5	9.8	16.2	43.3	97.3
0.0	37.5°	0.0	0.0	0.0	2.4	2.7	4.9	9.5	15.9	44.6	98.3
0.0	40°	0.0	0.0	0.0	1.8	2.1	4.6	9.5	16.2	40.3	96.1
0.0	42.5°	0.0	0.0	0.0	1.2	1.5	4.6	9.5	16.8	36.3	98.6
0.0	45°	0.0	0.0	0.0	0.9	1.2	4.9	9.2	16.5	34.2	111.4
0.0	47.5°	0.0	0.0	0.0	1.2	1.8	4.9	8.8	16.2	34.5	153.8
0.0	50°	0.0	0.0	0.0	1.5	2.1	4.9	9.2	15.6	37.8	236.5
0.0	52.5°	0.0	0.0	0.0	1.2	1.8	5.5	10.1	15.3	41.2	307.6
0.0	55°	0.0	0.0	0.0	0.3	0.9	7.0	11.0	15.3	46.4	325.3
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	7.9	12.5	16.2	54.9	318.3
0.0	58°	0.0	0.0	0.0	0.0	0.0	7.9	12.8	16.2	55.5	312.2
0.0	60°	0.0	0.0	0.0	0.0	0.0	7.9	14.0	18.0	59.8	278.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	6.7	16.8	22.6	62.3	218.5
0.0	65°	0.0	0.0	0.0	0.0	0.0	5.5	19.8	24.7	64.1	173.9
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	5.2	20.4	25.0	65.0	138.5
0.0	70°	0.0	0.0	0.0	0.0	0.0	5.5	20.1	26.9	68.0	112.6
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	6.1	18.3	29.6	68.0	99.8
0.0	75°	0.0	0.0	0.0	0.0	0.0	6.4	17.1	33.3	61.9	86.4
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	6.1	16.8	38.8	55.2	71.1
0.0	80°	0.6	0.9	0.9	0.6	0.6	5.2	16.5	39.4	47.0	48.8
0.3	82.5°	1.8	2.4	2.1	1.5	1.5	4.6	14.6	33.0	24.4	21.1
1.8	85°	3.4	4.0	4.0	3.4	3.4	4.3	9.2	11.9	8.2	6.7
3.4	87.5°	4.6	5.2	5.2	4.6	4.6	4.3	4.0	3.7	3.4	3.4
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: SP1-2407-184-4

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

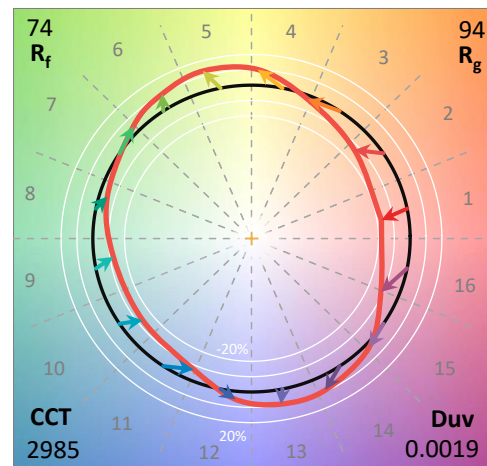
Test Information

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

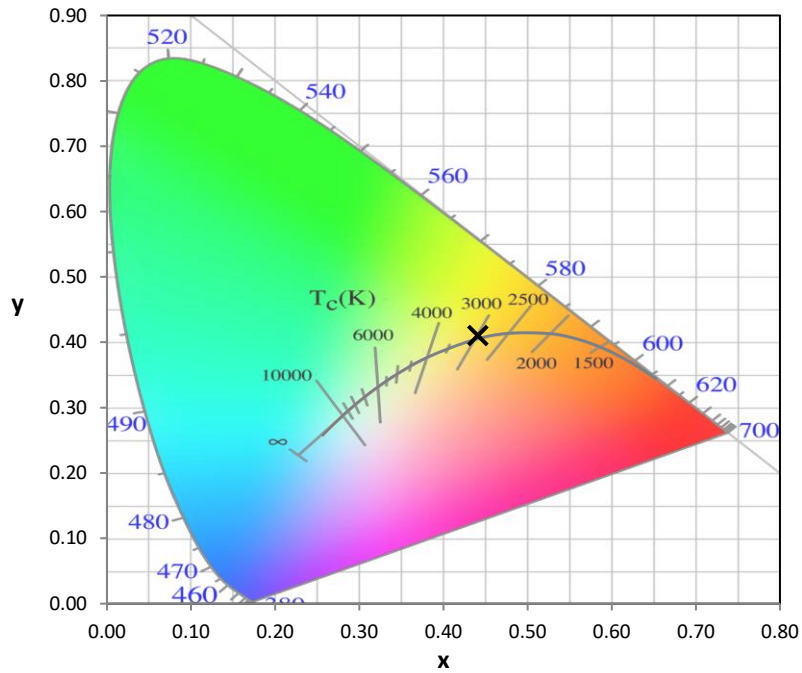
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

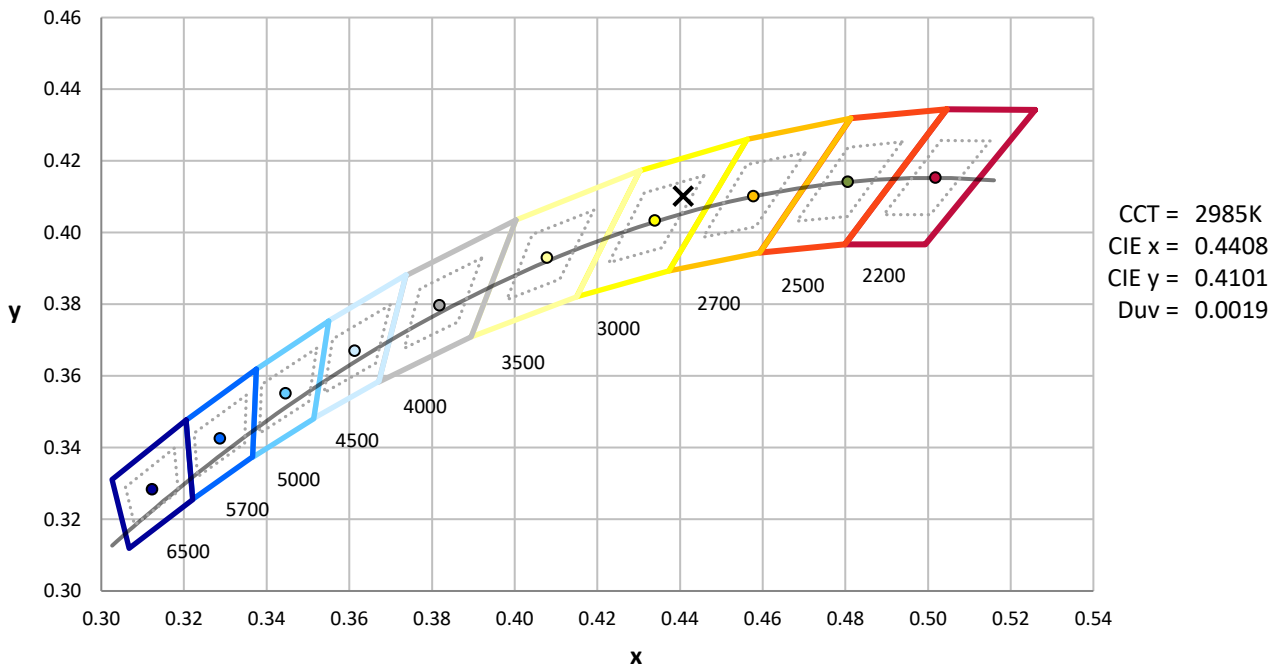
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



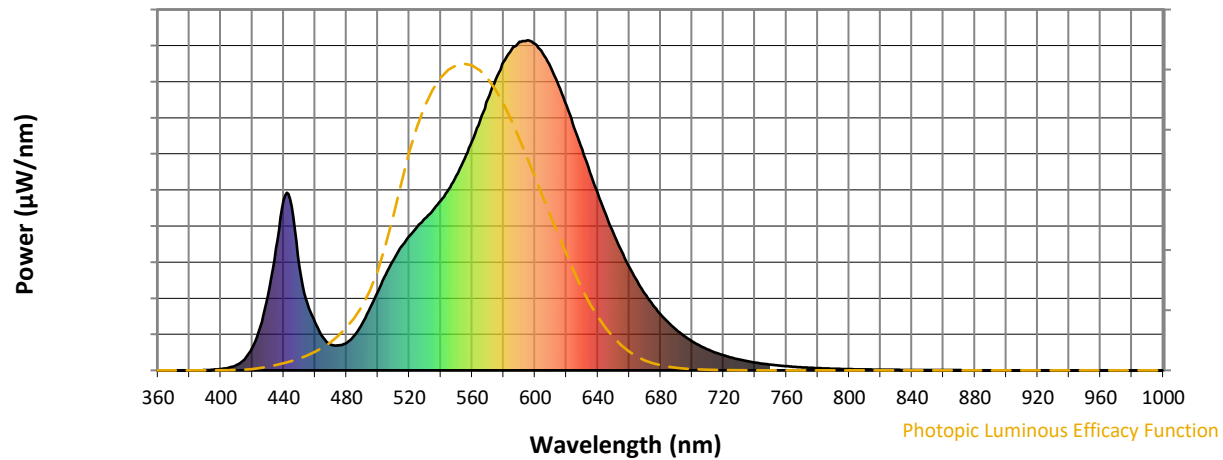
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

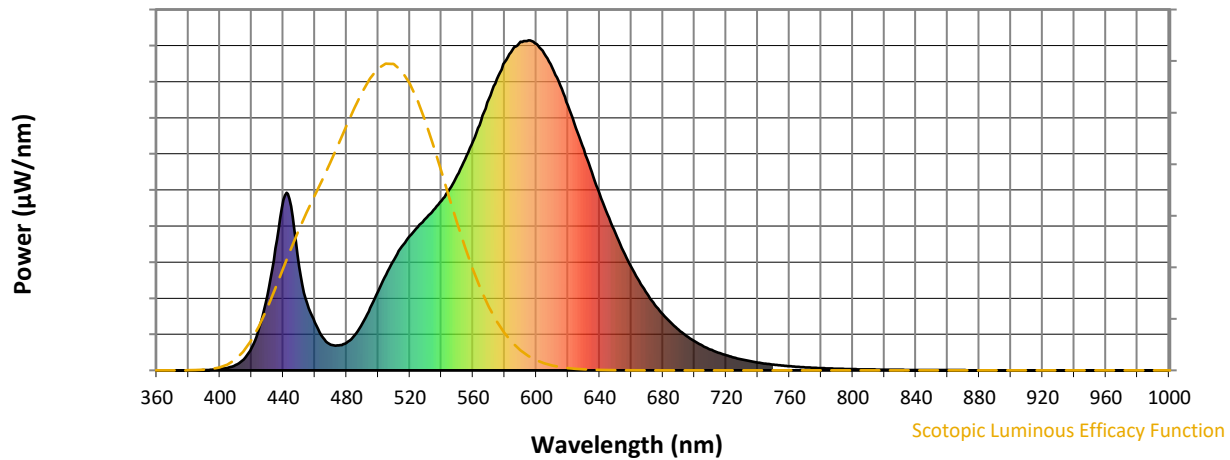


Photopic Lumens: NR

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



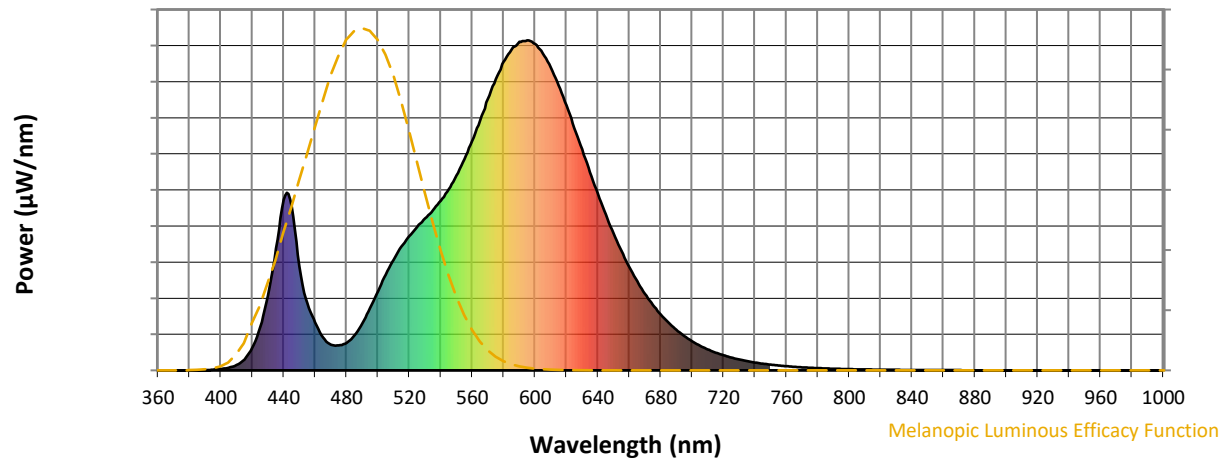
Scotopic Lumens: NR

S/P: 1.19

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.13

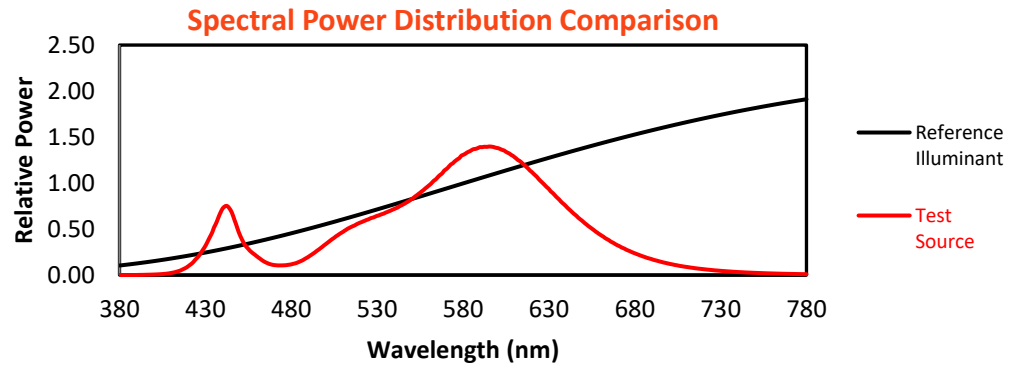
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	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

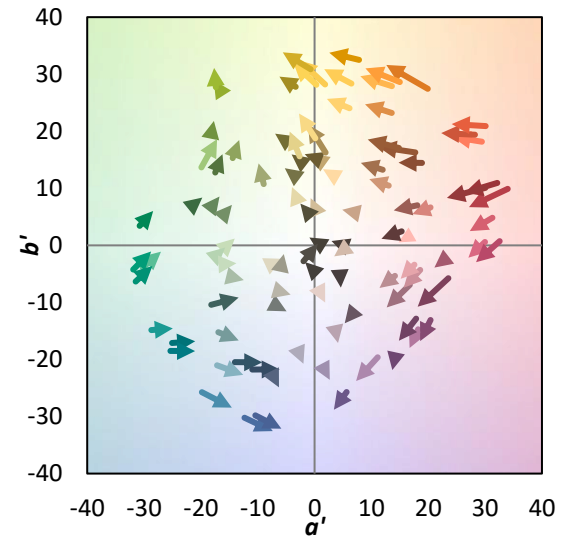
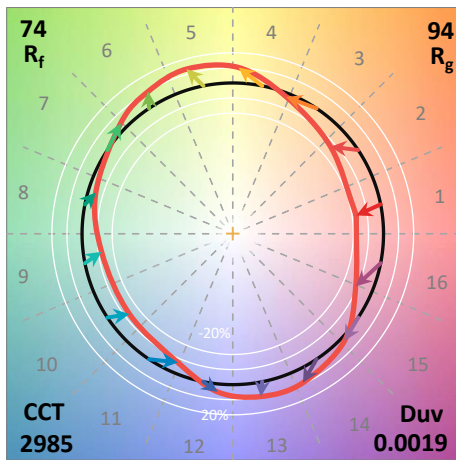
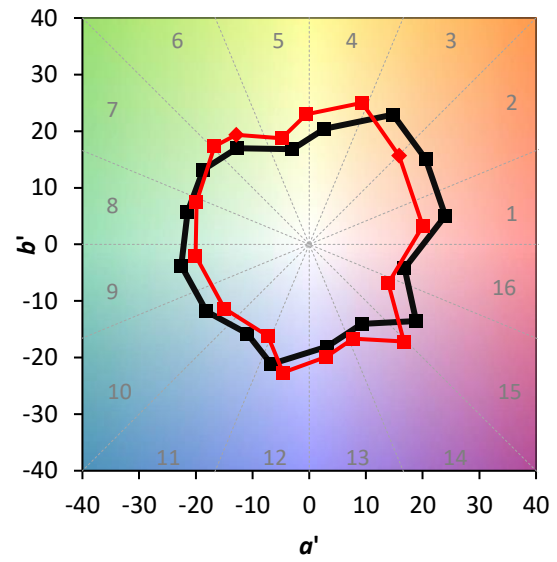
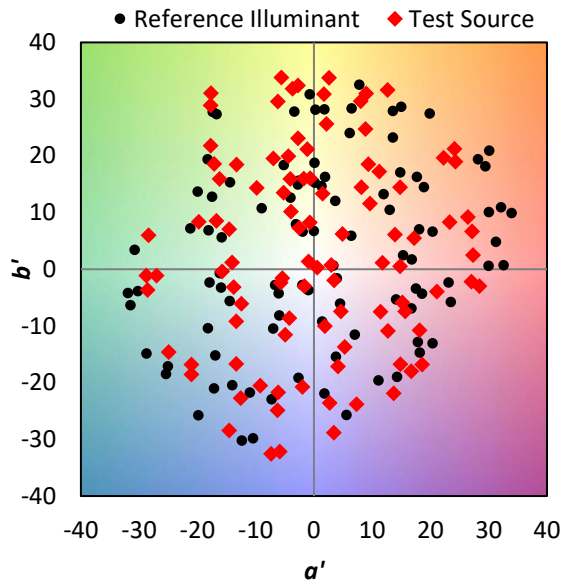
TM-30-18

Summary

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

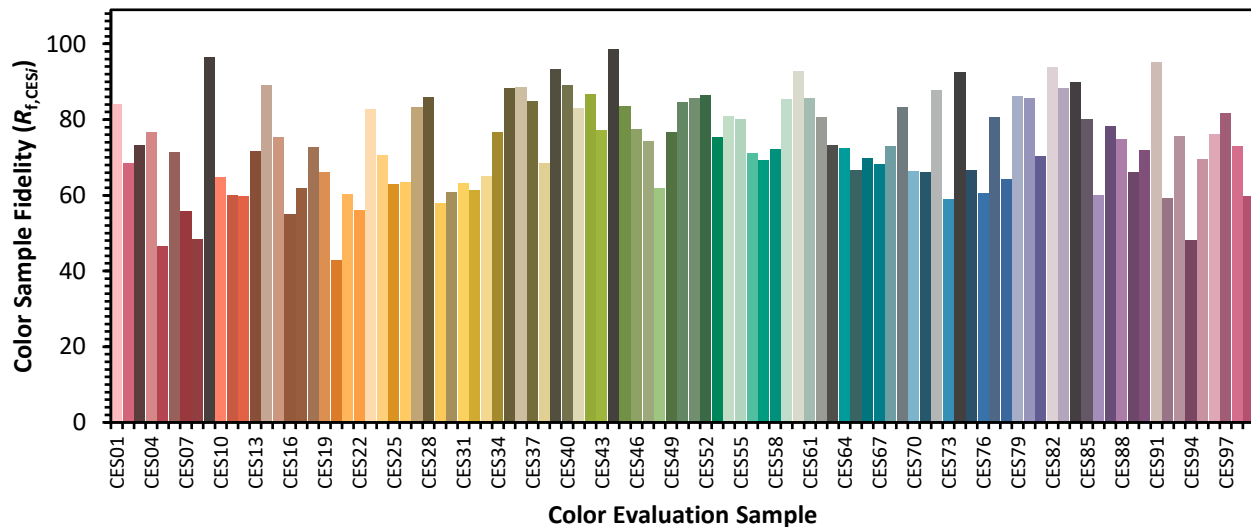


Color Vector Graphics

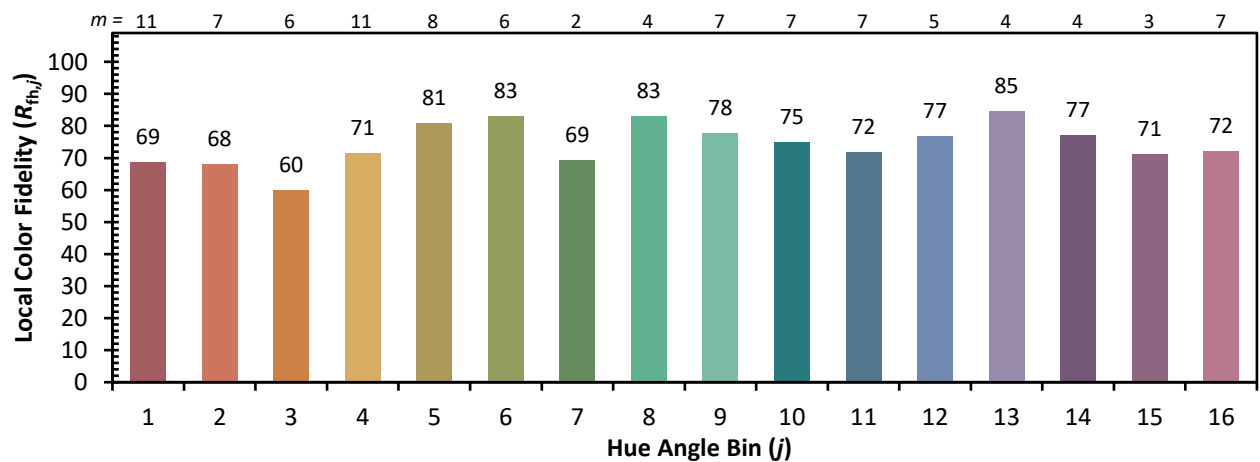
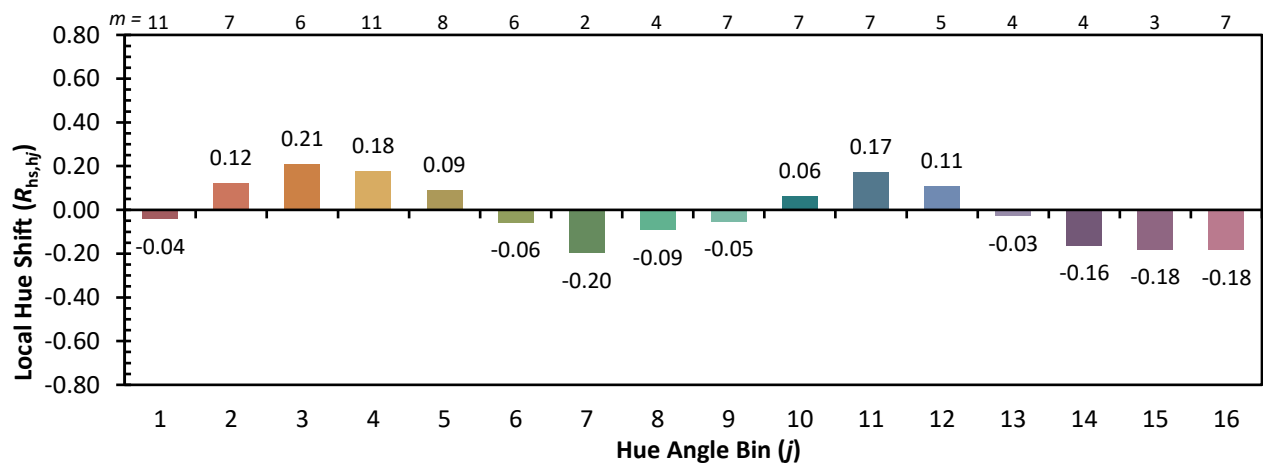
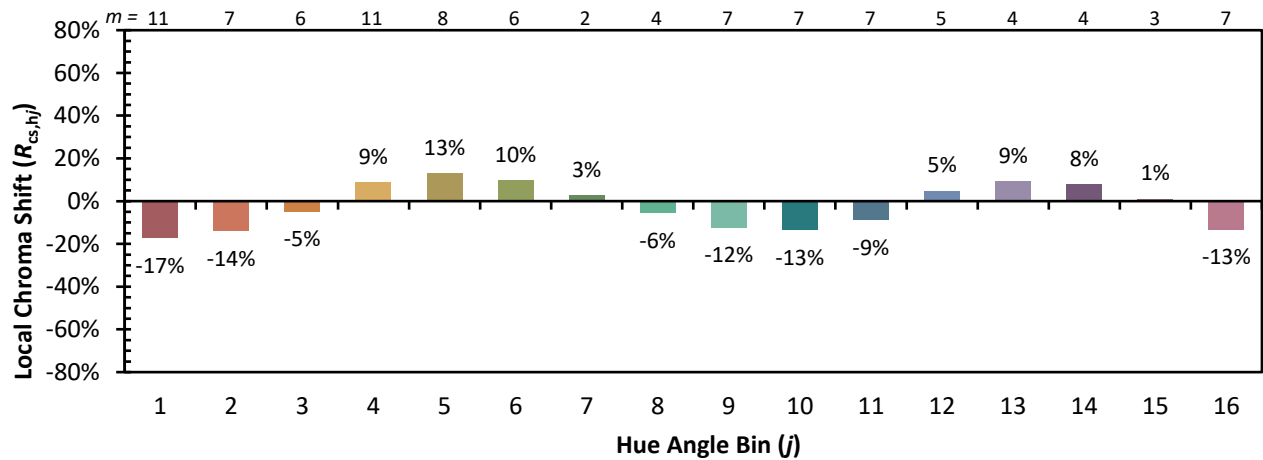


Individual Sample Fidelity Index ($R_{f,i}$)

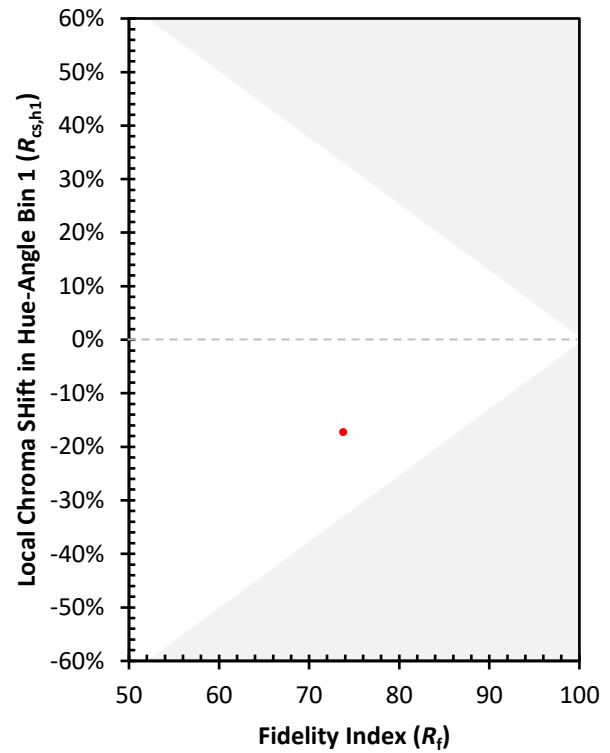
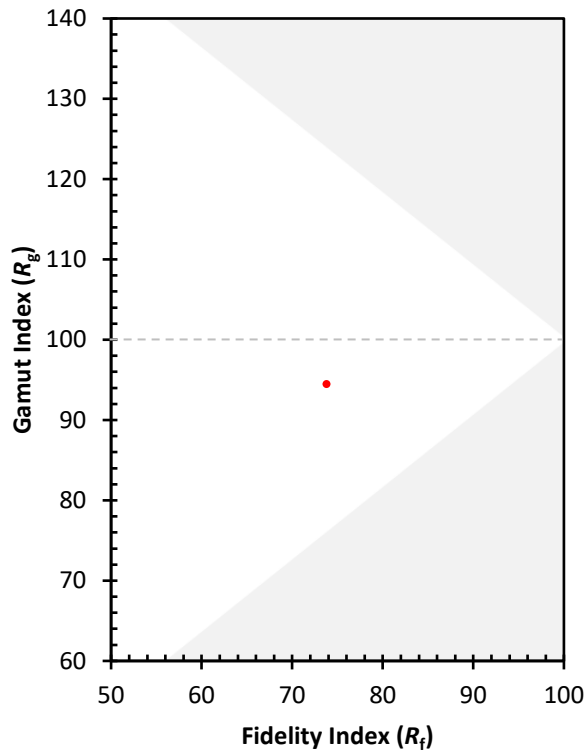
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82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