

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: P1049938

Luminaire Tested: **GALN-SA3B-930-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049938
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-930-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 3xLight Square PACKAGE
90CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

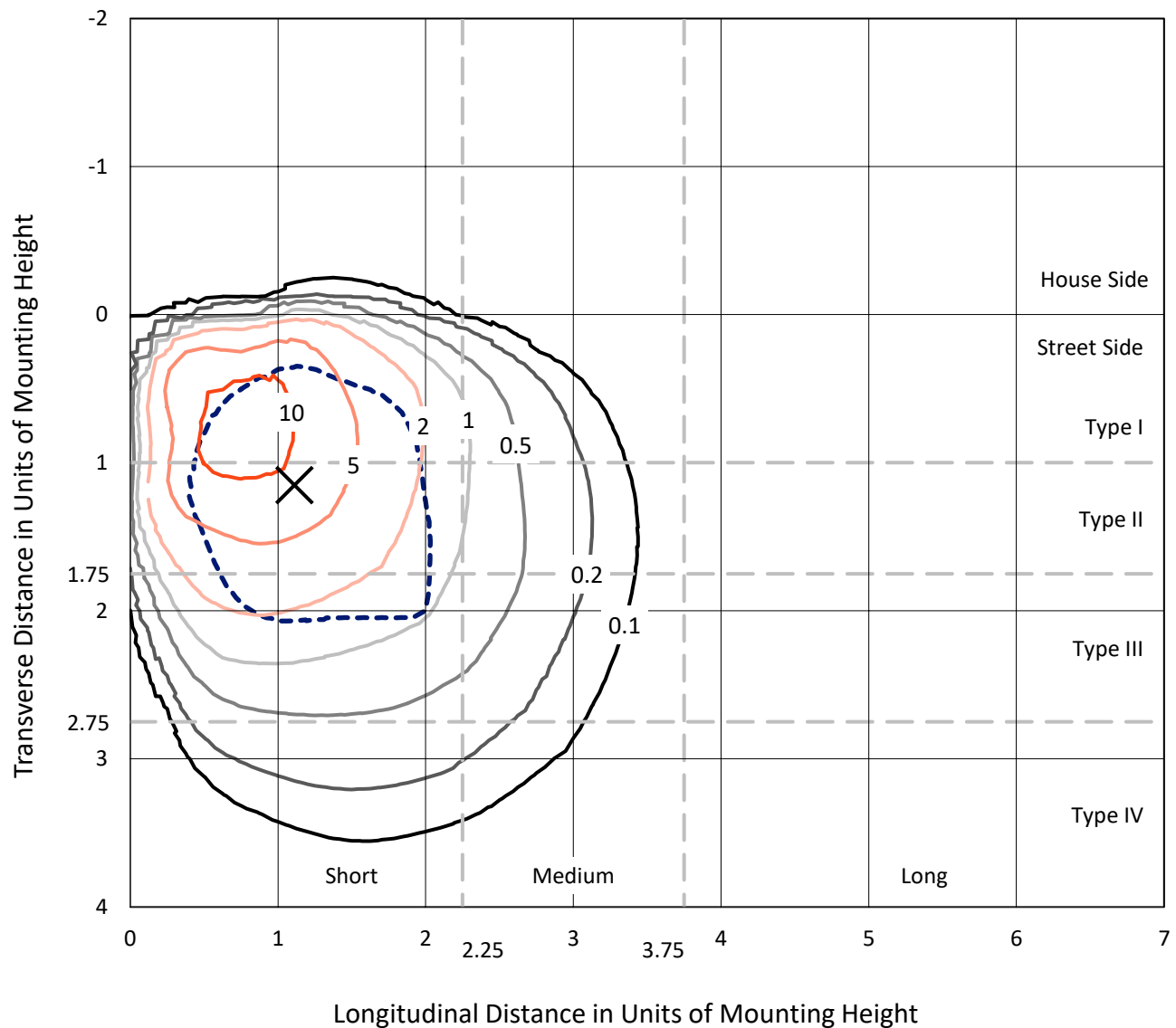
Lumens per Lamp: N/A
Luminaire Lumens: 8861.8 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 106.2
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

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Iso-Footcandle Lines of Horizontal Illumination

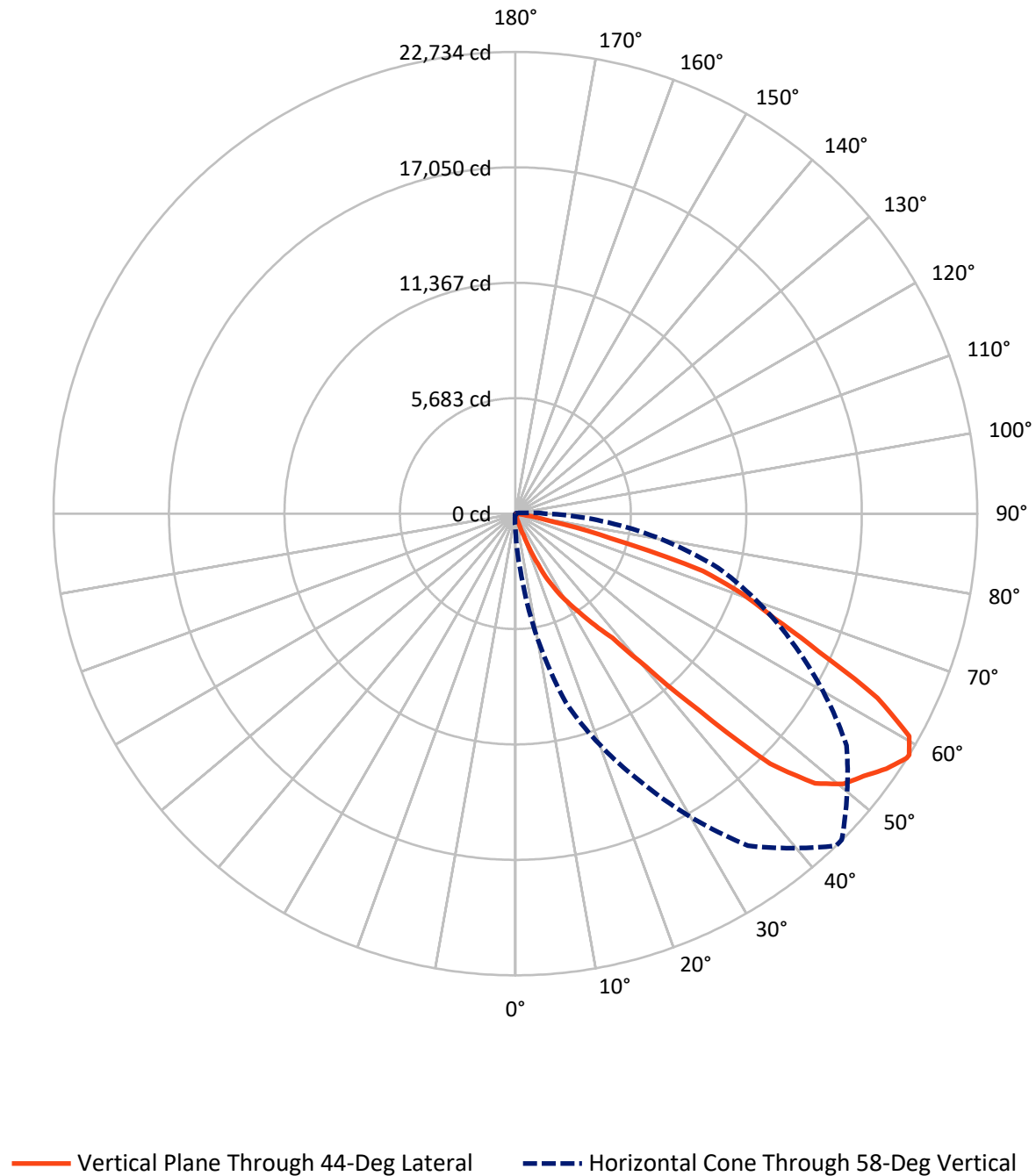
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15.4 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	60.5	0.0	60.5
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	8801.3	0.0	8801.3
	% Fixture	99.3	0.0	99.3
Total	Lumens	8861.8	0.0	8861.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	0.0
10°-20°	19.4	0.2
20°-30°	209.9	2.4
30°-40°	620.9	7.0
40°-50°	1850.5	20.9
50°-60°	2936.3	33.1
60°-70°	2449.2	27.6
70°-80°	755.4	8.5
80°-90°	16.8	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8861.8	100.0
0°-180°	8861.8	100.0



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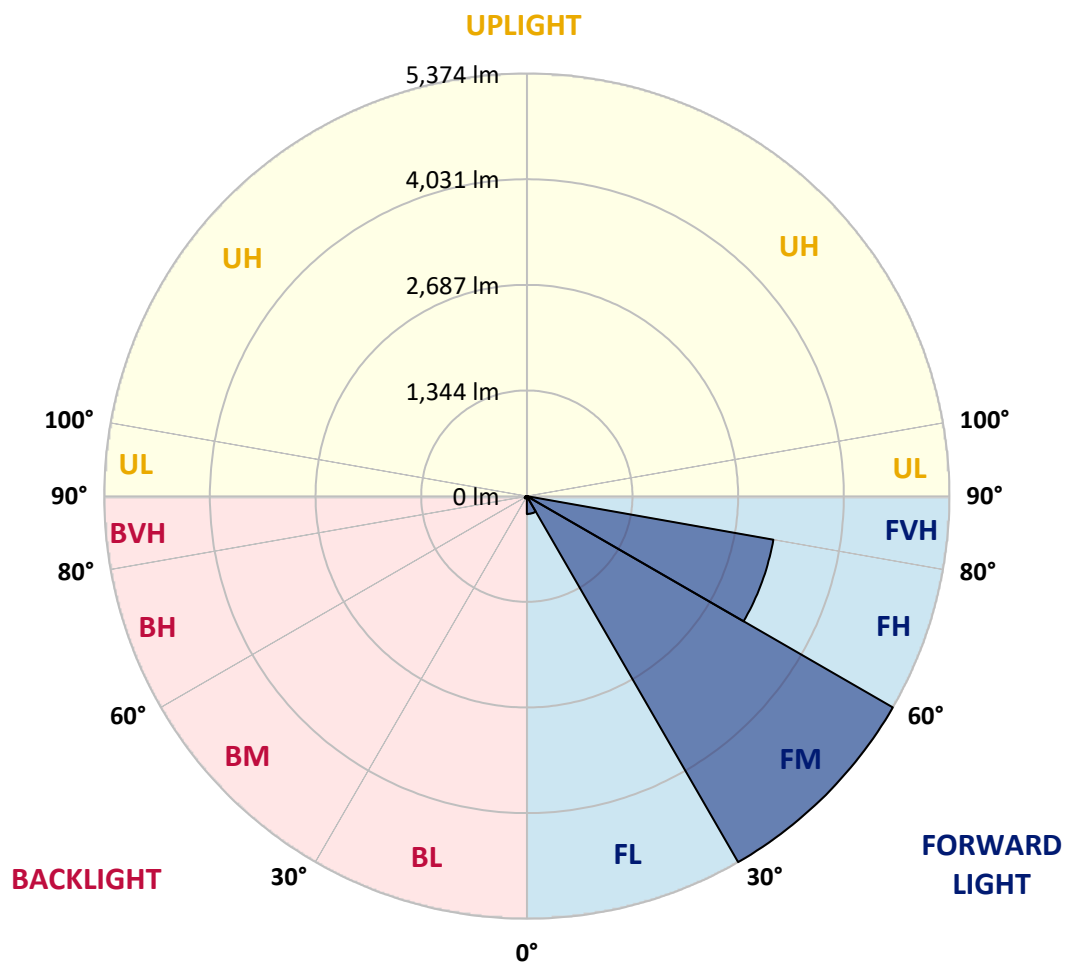
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	226.9	2.6			
FM	(30°-60°)	5374.5	60.6			
FH	(60°-80°)	3183.9	35.9			G2/5000
FVH	(80°-90°)	16.0	0.2			G1/100
BL	(0°-30°)	5.9	0.1	B0/110		
BM	(30°-60°)	33.1	0.4	B0/220		
BH	(60°-80°)	20.7	0.2	B0/110		G0/110
BVH	(80°-90°)	0.8	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
2.5°	50.2	50.2	48.2	45.5	42.8	40.2	39.5	38.2	37.5	36.8
5°	52.2	52.2	51.5	49.5	46.9	44.9	44.9	42.8	41.5	40.2
7.5°	53.6	54.2	55.6	54.9	53.6	51.5	51.5	50.2	48.2	44.9
10°	55.6	57.6	60.2	61.6	62.3	62.3	61.6	60.9	57.6	52.9
12.5°	57.6	61.6	68.3	75.0	79.0	84.3	83.7	82.3	73.6	63.6
15°	61.6	67.6	81.7	101.1	131.2	150.0	157.3	150.6	121.8	85.7
17.5°	66.3	76.3	118.5	211.5	346.8	411.0	449.9	418.4	277.1	162.7
20°	71.0	93.1	220.2	548.3	899.7	1109.9	1168.2	1077.1	691.5	309.9
22.5°	79.0	130.5	446.5	1133.3	1938.7	2254.0	2313.6	2022.4	1306.1	611.9
25°	95.7	189.4	769.8	1847.0	2893.3	3425.5	3400.7	3019.1	2118.7	977.4
27.5°	119.8	275.8	1164.1	2624.2	3807.7	4277.0	4333.2	3861.3	2824.3	1437.3
30°	154.6	382.2	1587.2	3246.7	4540.8	5048.2	5057.6	4569.5	3455.6	1840.9
32.5°	188.1	482.7	1957.4	3848.6	5263.1	5819.4	5860.9	5260.4	3926.9	2261.3
35°	213.5	548.3	2332.3	4377.4	5991.4	6757.9	6755.2	6042.3	4485.2	2636.9
37.5°	215.6	613.9	2671.7	4918.3	6913.9	7772.1	7857.1	7071.2	5160.0	3101.5
40°	210.9	687.5	3101.5	5761.8	8576.1	9892.9	9967.8	8977.1	6513.6	3896.8
42.5°	216.2	815.4	3799.0	7319.6	11336.1	13227.3	13371.9	12330.2	9001.8	5519.5
45°	244.3	1055.7	5260.4	9925.7	15270.4	17575.9	17527.7	16027.5	11897.1	7989.7
47.5°	337.4	1644.1	7426.7	12462.1	17784.8	19837.9	19879.4	18045.9	13586.8	9888.8
50°	518.8	2515.7	9246.8	13803.0	18865.9	20925.7	20886.9	18768.2	14228.8	10824.0
52.5°	674.8	3146.3	10160.0	14273.6	19004.5	21463.3	21460.6	18958.3	14328.5	10904.4
55°	713.6	3193.9	10167.3	14299.0	19315.1	22166.9	22255.2	19426.2	14457.7	10553.6
57.5°	698.2	2827.7	9742.9	14446.3	19868.0	22711.1	22715.8	19879.4	14785.7	10338.7
58°	684.8	2770.1	9657.2	14530.0	19963.1	22733.9	22722.5	19900.2	15052.8	10330.7
60°	609.9	2405.3	9323.2	14743.5	19821.9	22266.6	22160.2	19447.0	15013.3	10248.3
62.5°	479.3	1876.4	8994.5	14496.5	18307.6	20004.6	20048.8	17217.1	13686.5	9768.3
65°	381.6	1398.4	8309.0	12715.8	15075.6	16427.8	16592.5	14000.5	11423.8	8271.5
67.5°	303.9	1010.8	6970.1	10123.8	11929.3	13710.6	13830.4	11754.5	8850.5	6337.5
70°	247.0	683.5	4811.2	7403.9	9839.3	11842.2	11849.6	9765.0	6605.9	4152.5
72.5°	218.9	473.3	2792.9	5399.6	7978.3	9649.8	9455.0	7924.1	5077.0	2459.5
75°	189.4	314.0	1369.7	3301.0	4837.3	4870.1	4944.4	3675.8	2537.8	1169.5
77.5°	156.0	222.9	539.6	901.7	1450.7	1857.0	1926.0	1459.4	844.2	287.9
80°	107.1	105.8	145.3	276.5	415.0	520.1	485.3	375.6	220.9	110.5
82.5°	46.2	50.2	65.6	79.0	64.3	62.3	59.6	38.2	29.5	22.8
85°	14.7	13.4	14.1	14.1	11.4	8.7	8.7	4.0	0.0	0.0
87.5°	7.4	6.0	6.0	5.4	3.3	1.3	0.7	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
38.8	0°	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
36.1	2.5°	35.5	35.5	34.1	32.8	32.1	30.8	30.1	29.5	28.8	28.1
38.8	5°	37.5	36.8	34.8	32.8	30.8	28.8	27.4	26.1	24.8	24.1
42.8	7.5°	40.8	39.5	35.5	32.1	29.5	26.8	25.4	23.4	22.1	20.1
47.5	10°	44.9	42.2	36.8	32.8	28.8	25.4	23.4	21.4	19.4	16.7
54.2	12.5°	50.2	45.5	38.8	32.1	27.4	23.4	21.4	18.7	16.7	14.7
62.9	15°	54.9	48.9	39.5	32.1	26.1	21.4	18.7	16.1	14.1	11.4
79.0	17.5°	61.6	51.5	38.8	30.1	24.1	18.7	16.1	14.1	10.7	6.7
117.2	20°	73.0	53.6	37.5	28.1	20.8	15.4	12.0	9.4	4.7	1.3
176.1	22.5°	91.0	58.9	36.1	25.4	18.1	12.0	8.0	3.3	0.0	0.0
267.8	25°	125.9	68.3	36.1	24.1	16.1	8.7	2.7	0.0	0.0	0.0
380.2	27.5°	167.4	81.0	36.1	20.8	12.7	4.7	0.0	0.0	0.0	0.0
518.1	30°	209.5	95.1	36.1	18.1	10.0	0.7	0.0	0.0	0.0	0.0
638.0	32.5°	249.7	107.1	36.8	15.4	6.7	0.0	0.0	0.0	0.0	0.0
804.0	35°	290.5	109.1	36.1	13.4	4.0	0.0	0.0	0.0	0.0	0.0
1007.5	37.5°	342.7	105.1	34.1	12.0	2.0	0.0	0.0	0.0	0.0	0.0
1325.5	40°	421.7	107.1	32.1	11.4	0.7	0.0	0.0	0.0	0.0	0.0
1892.5	42.5°	567.7	115.8	29.5	11.4	0.0	0.0	0.0	0.0	0.0	0.0
3014.4	45°	981.4	155.3	26.8	12.0	0.0	0.0	0.0	0.0	0.0	0.0
4525.4	47.5°	1623.4	279.2	26.1	12.0	0.0	0.0	0.0	0.0	0.0	0.0
5451.2	50°	2071.9	351.5	27.4	12.7	0.0	0.0	0.0	0.0	0.0	0.0
5567.0	52.5°	2068.5	391.6	28.8	13.4	2.7	0.0	0.0	0.0	0.0	0.0
5131.2	55°	1838.9	399.0	30.8	14.7	8.7	0.0	0.0	0.0	0.0	0.0
4409.5	57.5°	1537.0	364.2	35.5	18.1	16.1	0.0	0.0	0.0	0.0	0.0
4296.4	58°	1483.5	348.1	36.8	18.7	17.4	0.0	0.0	0.0	0.0	0.0
3726.7	60°	1215.7	283.8	46.9	23.4	23.4	0.0	0.0	0.0	0.0	0.0
3055.3	62.5°	839.5	247.7	53.6	30.1	24.1	0.0	0.0	0.0	0.0	0.0
2252.6	65°	593.8	223.6	58.2	32.1	19.4	0.0	0.0	0.0	0.0	0.0
1600.6	67.5°	443.8	206.2	64.3	32.8	10.0	0.0	0.0	0.0	0.0	0.0
1004.1	70°	340.1	193.5	79.0	34.8	2.7	0.0	0.0	0.0	0.0	0.0
598.5	72.5°	277.1	178.7	95.7	36.1	0.0	0.0	0.0	0.0	0.0	0.0
358.8	75°	229.6	161.3	92.4	39.5	0.0	0.0	0.0	0.0	0.0	0.0
191.5	77.5°	152.6	125.2	84.3	39.5	0.0	0.0	0.0	0.0	0.0	0.0
68.3	80°	53.6	49.5	65.6	34.8	0.0	0.0	0.0	0.0	0.0	0.0
14.1	82.5°	8.0	6.7	9.4	12.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
38.8	0°	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
27.4	2.5°	27.4	27.4	26.8	27.4	27.4	28.8	32.1	36.8	42.2	44.2
23.4	5°	22.8	22.1	21.4	21.4	21.4	23.4	26.1	31.5	37.5	40.2
19.4	7.5°	18.7	18.1	17.4	16.7	16.7	18.1	21.4	27.4	33.5	36.1
16.1	10°	15.4	14.1	13.4	12.7	12.7	14.1	17.4	23.4	30.1	32.8
13.4	12.5°	12.7	10.7	9.4	8.7	8.0	10.0	13.4	18.7	26.1	29.5
10.0	15°	8.7	6.7	4.7	4.0	3.3	5.4	8.7	14.7	22.1	26.1
5.4	17.5°	4.7	2.0	0.7	0.0	0.0	1.3	4.0	10.7	18.1	21.4
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	13.4	16.7
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	8.0	11.4
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.0
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
0.0	30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.4
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°
38.8	0°	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
46.2	2.5°	47.5	46.9	45.5	44.2	44.2	44.2	46.2	48.2	50.2	50.2
41.5	5°	44.2	44.2	43.5	42.2	42.2	42.8	45.5	48.9	51.5	52.2
38.2	7.5°	40.8	42.2	40.8	40.2	40.8	41.5	44.2	48.2	52.2	53.6
35.5	10°	38.8	39.5	39.5	38.8	38.8	40.2	42.8	48.2	53.6	55.6
32.1	12.5°	36.1	37.5	36.8	36.8	36.8	38.2	41.5	47.5	54.9	57.6
28.8	15°	33.5	35.5	35.5	34.8	34.8	35.5	40.2	46.9	56.9	61.6
24.8	17.5°	30.8	32.8	33.5	32.1	32.1	33.5	38.2	46.9	58.2	66.3
20.1	20°	25.4	28.8	30.8	28.8	28.8	30.1	34.8	44.2	58.9	71.0
14.7	22.5°	20.1	23.4	26.1	25.4	25.4	26.1	32.1	42.2	59.6	79.0
8.7	25°	14.7	18.1	20.1	21.4	21.4	23.4	29.5	40.8	62.3	95.7
4.0	27.5°	8.7	12.7	15.4	16.7	17.4	20.1	27.4	39.5	66.9	119.8
0.0	30°	4.0	7.4	10.7	13.4	13.4	18.1	25.4	38.2	73.0	154.6
0.0	32.5°	0.0	3.3	5.4	9.4	10.0	14.7	23.4	36.8	81.7	188.1
0.0	35°	0.0	0.0	2.7	7.4	7.4	12.0	21.4	35.5	95.1	213.5
0.0	37.5°	0.0	0.0	0.0	5.4	6.0	10.7	20.8	34.8	97.7	215.6
0.0	40°	0.0	0.0	0.0	4.0	4.7	10.0	20.8	35.5	88.4	210.9
0.0	42.5°	0.0	0.0	0.0	2.7	3.3	10.0	20.8	36.8	79.7	216.2
0.0	45°	0.0	0.0	0.0	2.0	2.7	10.7	20.1	36.1	75.0	244.3
0.0	47.5°	0.0	0.0	0.0	2.7	4.0	10.7	19.4	35.5	75.6	337.4
0.0	50°	0.0	0.0	0.0	3.3	4.7	10.7	20.1	34.1	83.0	518.8
0.0	52.5°	0.0	0.0	0.0	2.7	4.0	12.0	22.1	33.5	90.4	674.8
0.0	55°	0.0	0.0	0.0	0.7	2.0	15.4	24.1	33.5	101.8	713.6
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	17.4	27.4	35.5	120.5	698.2
0.0	58°	0.0	0.0	0.0	0.0	0.0	17.4	28.1	35.5	121.8	684.8
0.0	60°	0.0	0.0	0.0	0.0	0.0	17.4	30.8	39.5	131.2	609.9
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	14.7	36.8	49.5	136.6	479.3
0.0	65°	0.0	0.0	0.0	0.0	0.0	12.0	43.5	54.2	140.6	381.6
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	11.4	44.9	54.9	142.6	303.9
0.0	70°	0.0	0.0	0.0	0.0	0.0	12.0	44.2	58.9	149.3	247.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	13.4	40.2	64.9	149.3	218.9
0.0	75°	0.0	0.0	0.0	0.0	0.0	14.1	37.5	73.0	135.9	189.4
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	13.4	36.8	85.0	121.2	156.0
0.0	80°	1.3	2.0	2.0	1.3	1.3	11.4	36.1	86.4	103.1	107.1
0.7	82.5°	4.0	5.4	4.7	3.3	3.3	10.0	32.1	72.3	53.6	46.2
4.0	85°	7.4	8.7	8.7	7.4	7.4	9.4	20.1	26.1	18.1	14.7
7.4	87.5°	10.0	11.4	11.4	10.0	10.0	9.4	8.7	8.0	7.4	7.4
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

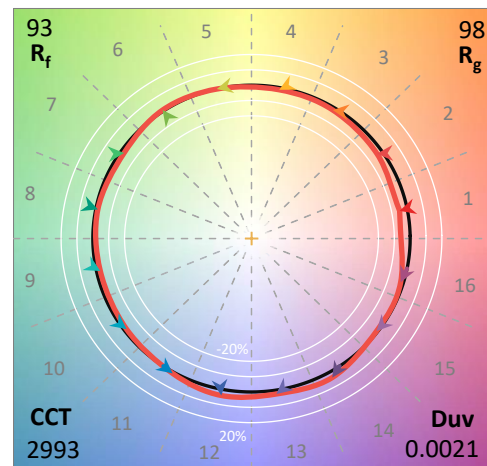
Test Information

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

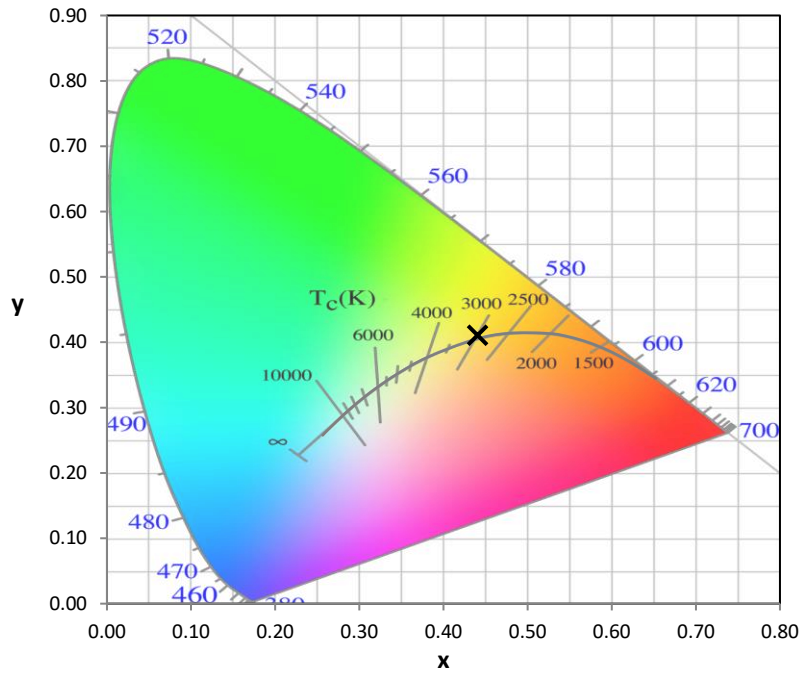
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-14

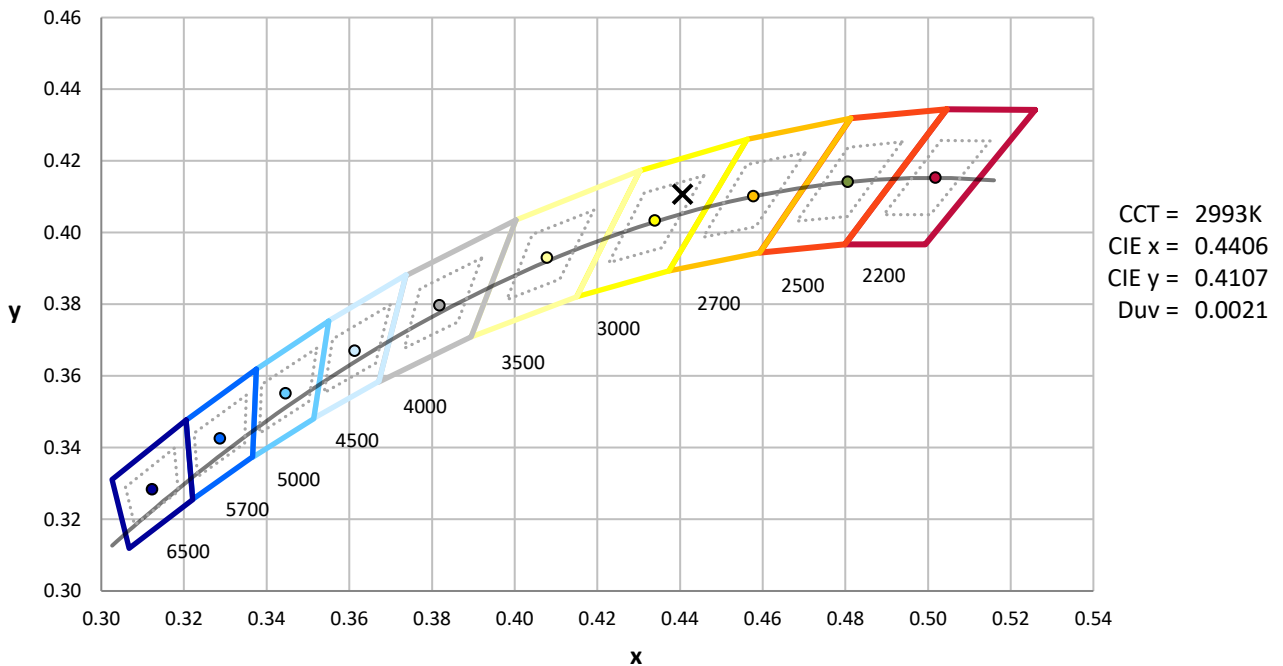
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



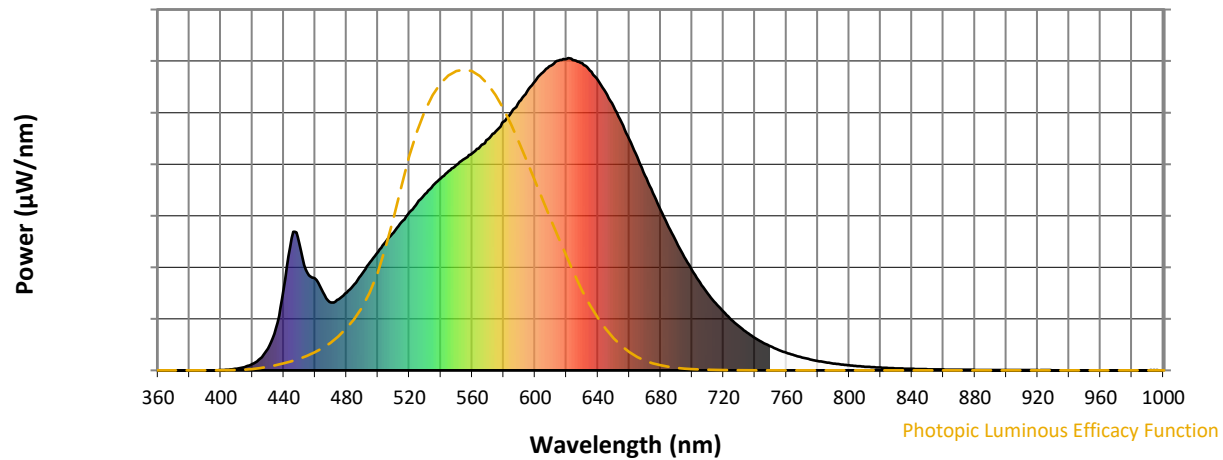
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-14

Photopic Flux vs. Wavelength

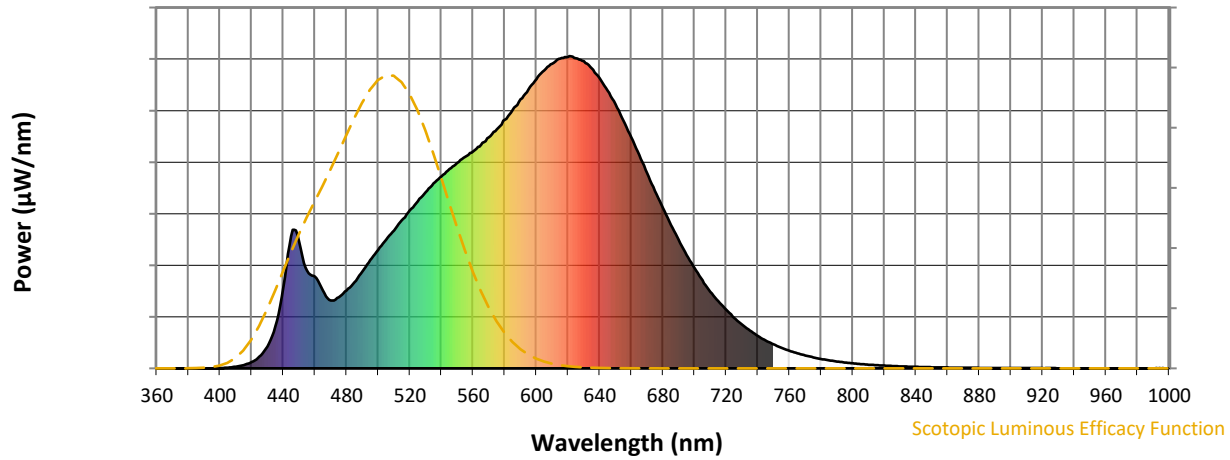


Photopic Lumens: NR

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



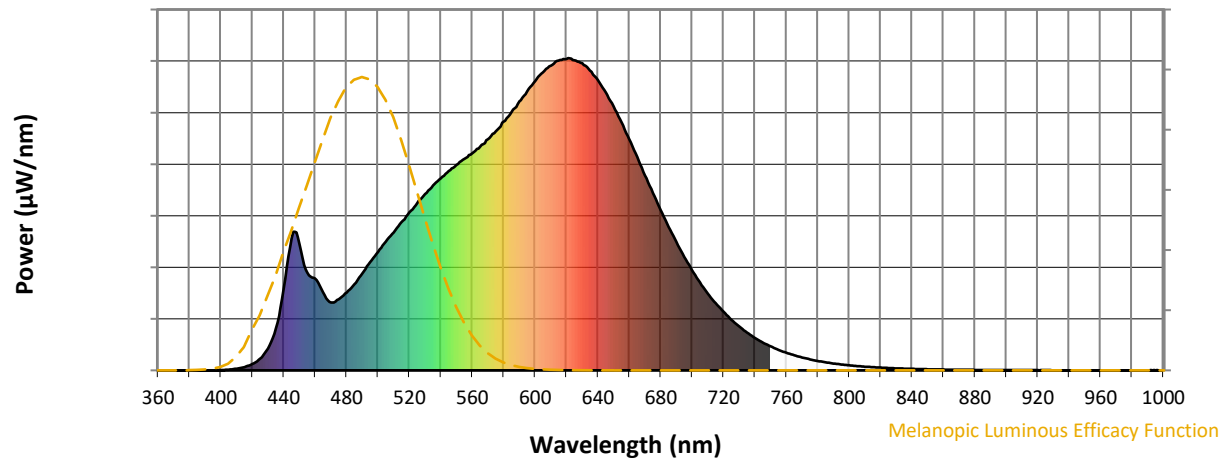
Scotopic Lumens: NR

S/P: 1.39

λ (nm)	Power W [^] /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			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.69

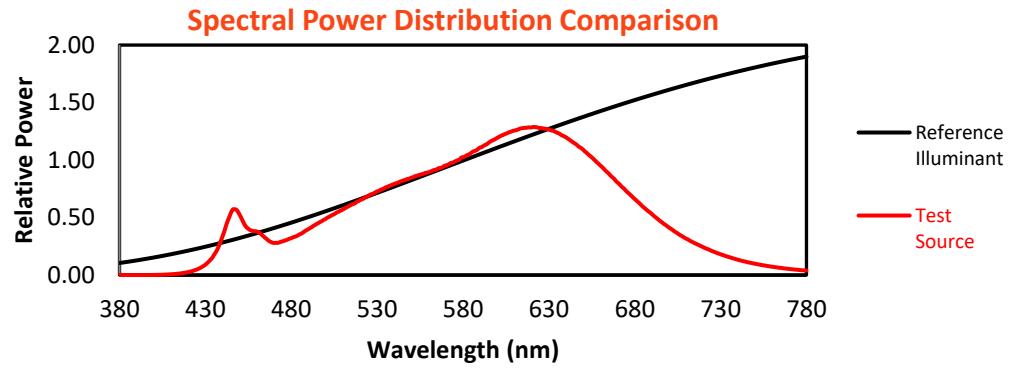
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	310	NR	620	998	NR	750	77	NR	880	2	NR
365	0	NR	495	347	NR	625	993	NR	755	66	NR	885	1	NR
370	0	NR	500	379	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			

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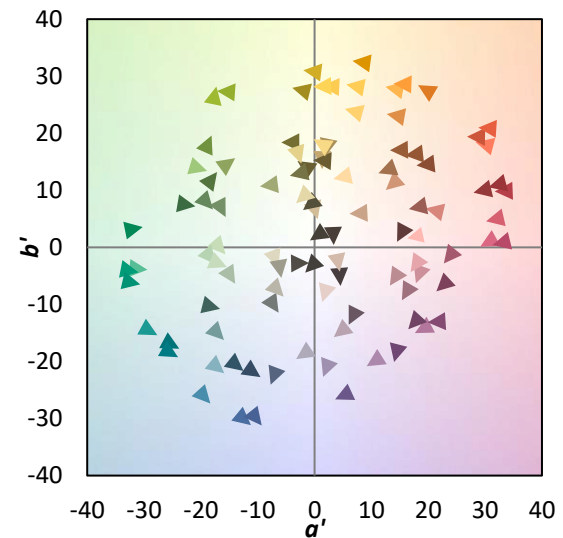
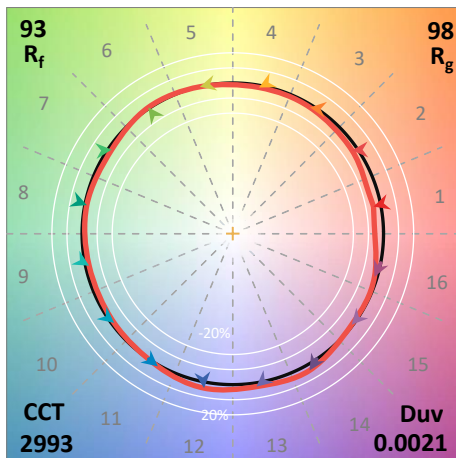
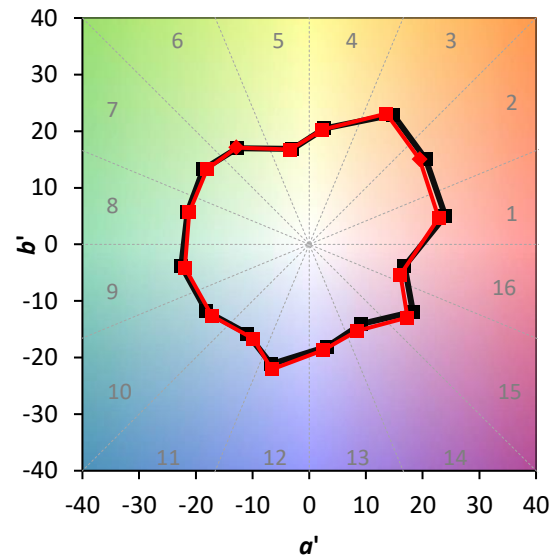
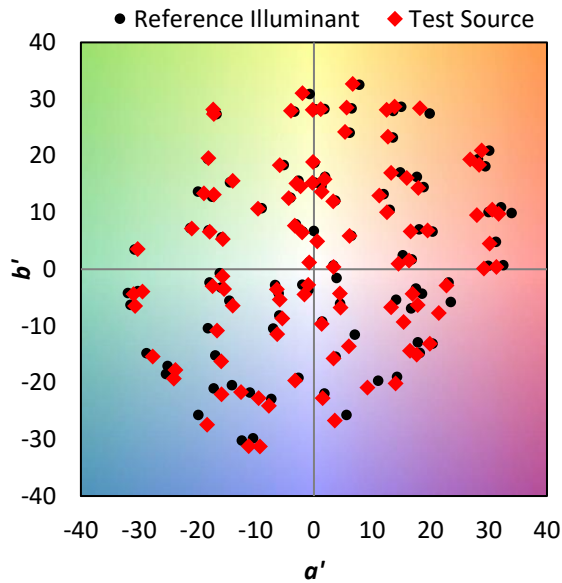
TM-30-18

Summary

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

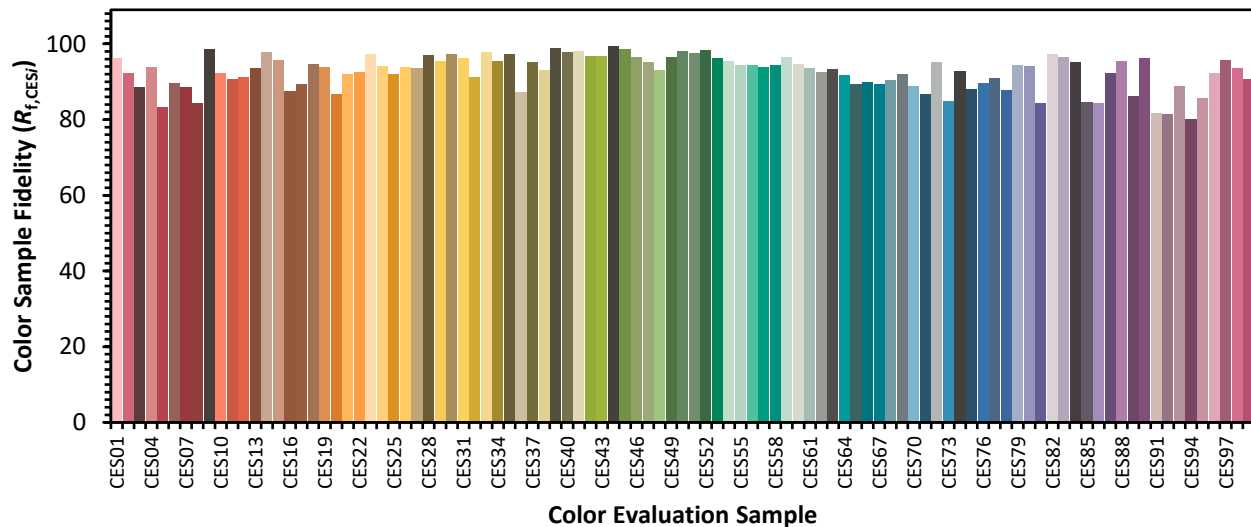


Color Vector Graphics

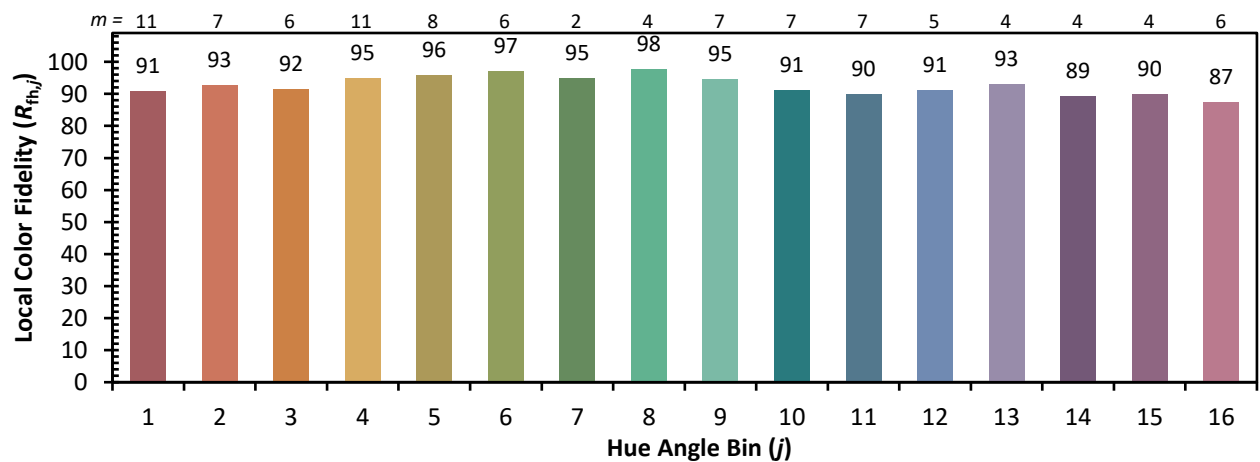
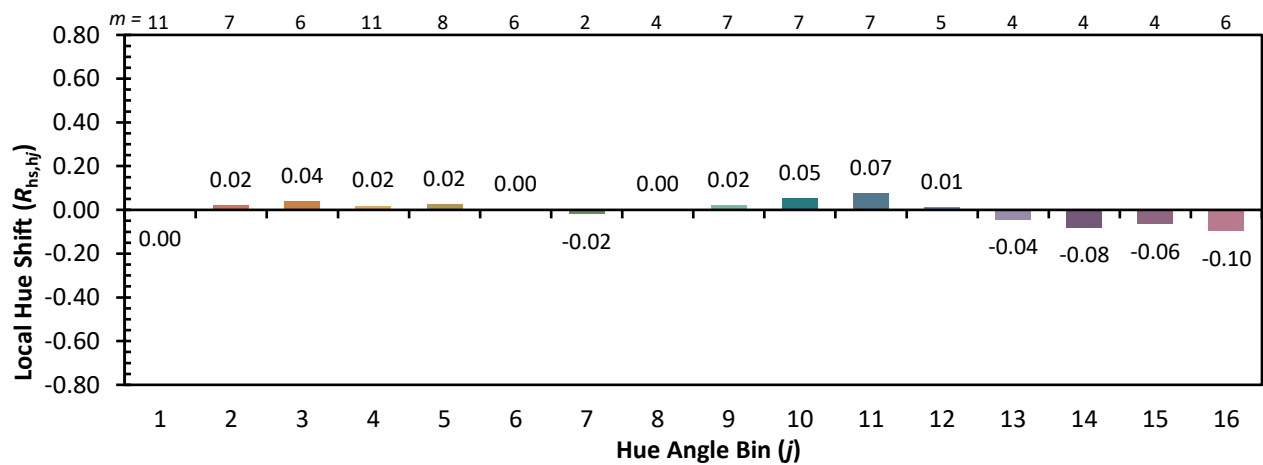
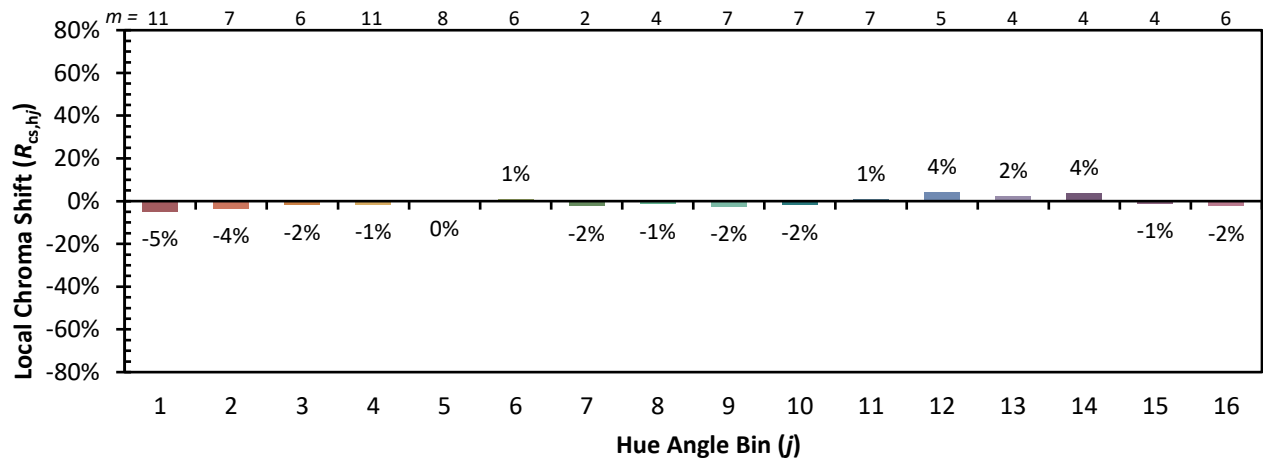


Individual Sample Fidelity Index ($R_{f,i}$)

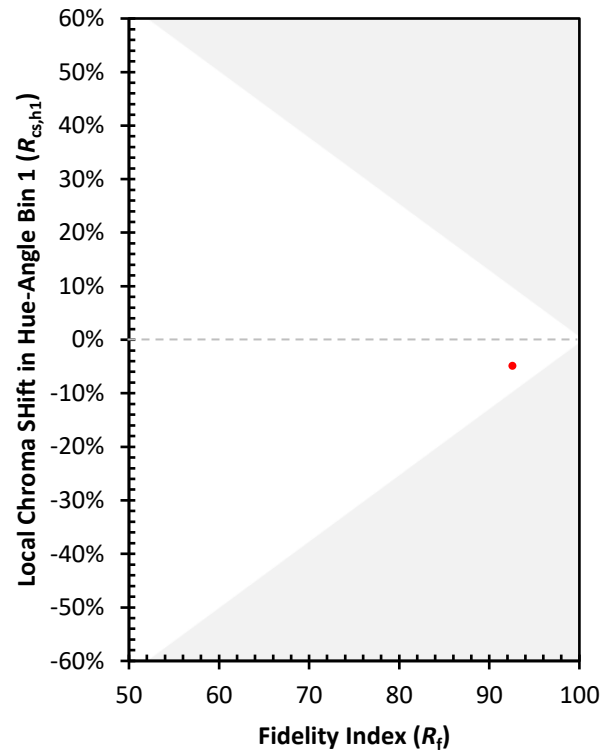
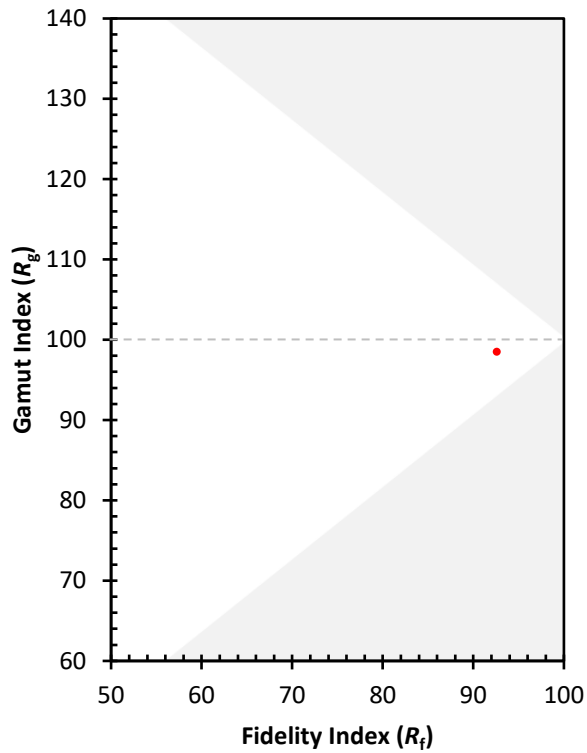
CES01 = 86	CES26 = 94	CES51 = 98	CES76 = 90
CES02 = 63	CES27 = 94	CES52 = 98	CES77 = 91
CES03 = 32	CES28 = 97	CES53 = 96	CES78 = 88
CES04 = 70	CES29 = 95	CES54 = 95	CES79 = 94
CES05 = 51	CES30 = 97	CES55 = 94	CES80 = 94
CES06 = 51	CES31 = 96	CES56 = 94	CES81 = 84
CES07 = 43	CES32 = 91	CES57 = 94	CES82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