

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: P1049725

Luminaire Tested: **GALN-SA4A-827-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049725
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-827-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 4xLight Square PACKAGE
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11432 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

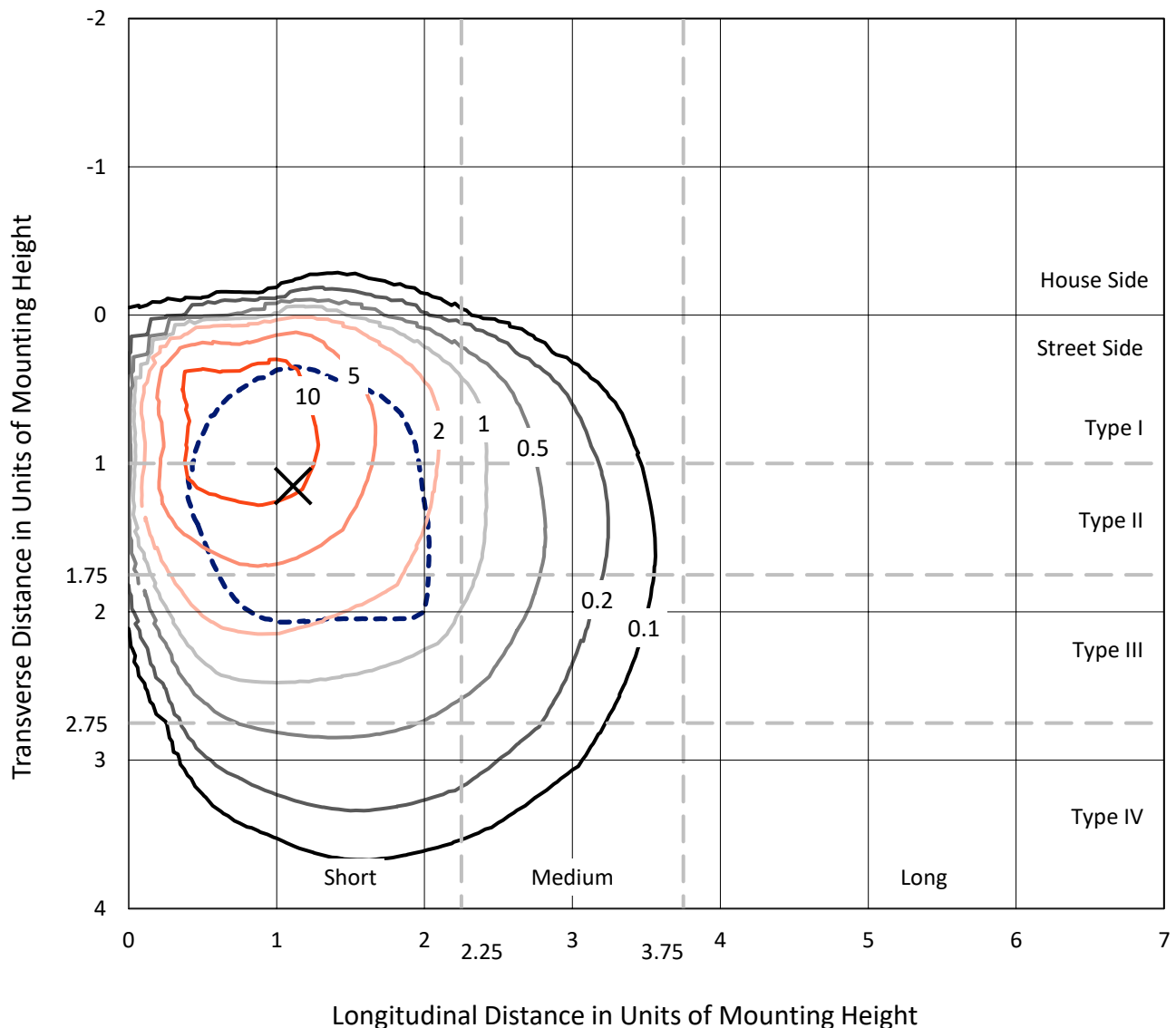
Input Watts (W): 107.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

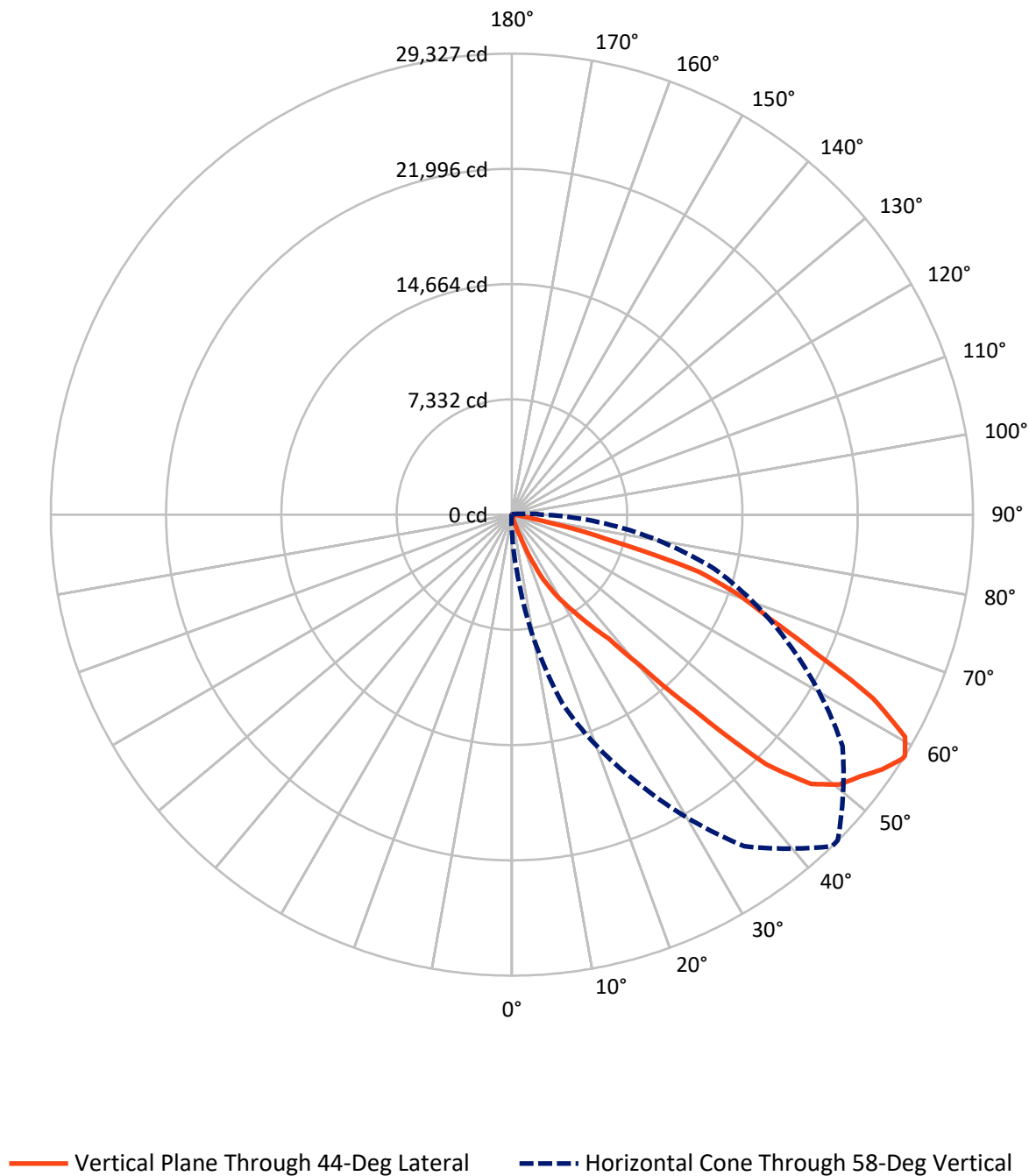


Based on 20 foot mounting height. Maximum calculated value = 19.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	78.1	0.0	78.1
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	11353.9	0.0	11353.9
	% Fixture	99.3	0.0	99.3
Total	Lumens	11432.0	0.0	11432.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.5	0.0
10°-20°	25.1	0.2
20°-30°	270.8	2.4
30°-40°	800.9	7.0
40°-50°	2387.2	20.9
50°-60°	3787.9	33.1
60°-70°	3159.5	27.6
70°-80°	974.5	8.5
80°-90°	21.6	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°	11432.0	100.0
0°-180°	11432.0	100.0



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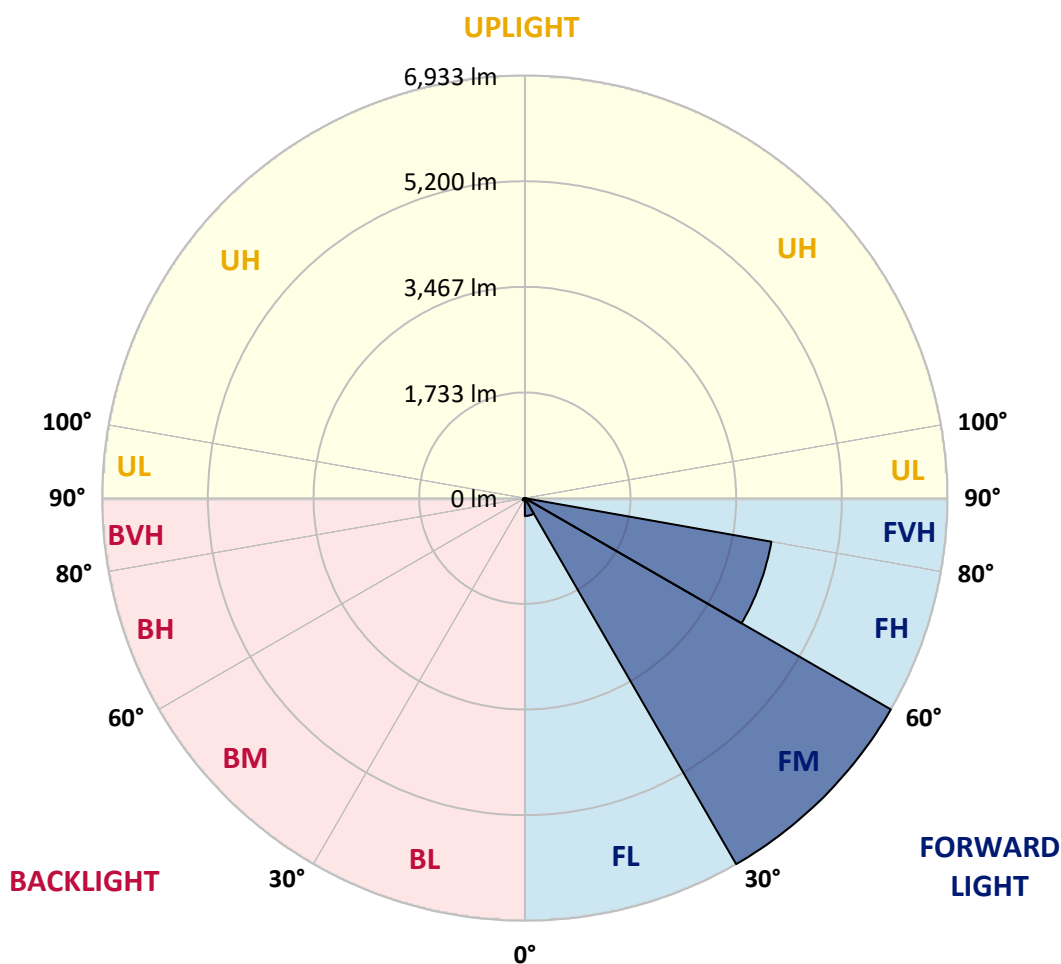
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	292.7	2.6			
FM	(30°-60°)	6933.2	60.6			
FH	(60°-80°)	4107.3	35.9			G2/5000
FVH	(80°-90°)	20.6	0.2			G1/100
BL	(0°-30°)	7.6	0.1	B0/110		
BM	(30°-60°)	42.7	0.4	B0/220		
BH	(60°-80°)	26.7	0.2	B0/110		G0/110
BVH	(80°-90°)	1.0	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°	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
2.5°	64.8	64.8	62.2	58.7	55.3	51.8	51.0	49.2	48.4	47.5
5°	67.4	67.4	66.5	63.9	60.5	57.9	57.9	55.3	53.5	51.8
7.5°	69.1	70.0	71.7	70.8	69.1	66.5	66.5	64.8	62.2	57.9
10°	71.7	74.3	77.7	79.4	80.3	80.3	79.4	78.6	74.3	68.2
12.5°	74.3	79.4	88.1	96.7	101.9	108.8	107.9	106.2	95.0	82.0
15°	79.4	87.2	105.4	130.4	169.3	193.4	202.9	194.3	157.2	110.5
17.5°	85.5	98.4	152.9	272.9	447.3	530.2	580.3	539.7	357.5	209.9
20°	91.5	120.0	284.1	707.3	1160.7	1431.8	1507.0	1389.5	892.1	399.8
22.5°	101.9	168.4	576.0	1462.1	2500.9	2907.7	2984.6	2608.9	1684.9	789.3
25°	123.5	244.4	993.1	2382.6	3732.4	4419.0	4387.0	3894.8	2733.3	1260.8
27.5°	154.6	355.8	1501.8	3385.3	4912.1	5517.5	5590.0	4981.2	3643.5	1854.1
30°	199.5	493.1	2047.6	4188.4	5857.7	6512.3	6524.4	5894.8	4457.8	2374.9
32.5°	242.7	622.6	2525.1	4964.8	6789.5	7507.2	7560.7	6786.1	5065.8	2917.2
35°	275.5	707.3	3008.7	5647.0	7729.1	8717.9	8714.5	7794.7	5786.0	3401.7
37.5°	278.1	791.9	3446.6	6344.8	8919.1	10026.2	10135.9	9122.1	6656.5	4001.0
40°	272.0	886.9	4001.0	7432.9	11063.4	12762.1	12858.8	11580.7	8402.7	5026.9
42.5°	278.9	1051.8	4900.9	9442.5	14624.0	17063.6	17250.1	15906.4	11612.7	7120.3
45°	315.2	1361.9	6786.1	12804.4	19699.3	22673.5	22611.3	20676.0	15347.7	10306.9
47.5°	435.2	2121.0	9580.6	16076.5	22942.9	25591.5	25645.1	23279.7	17527.4	12756.9
50°	669.3	3245.4	11928.7	17806.3	24337.6	26994.9	26944.8	24211.5	18355.5	13963.3
52.5°	870.5	4058.9	13106.7	18413.4	24516.4	27688.3	27684.9	24456.8	18484.2	14067.0
55°	920.6	4120.2	13116.2	18446.2	24917.1	28595.9	28709.9	25060.4	18650.9	13614.4
57.5°	900.7	3647.8	12568.6	18636.2	25630.4	29298.0	29304.1	25645.1	19074.0	13337.2
58°	883.4	3573.5	12458.1	18744.2	25753.0	29327.4	29312.7	25671.8	19418.6	13326.9
60°	786.7	3102.9	12027.2	19019.6	25570.8	28724.6	28587.3	25087.2	19367.7	13220.6
62.5°	618.3	2420.6	11603.2	18701.0	23617.4	25806.6	25863.6	22210.6	17656.0	12601.5
65°	492.2	1804.0	10718.8	16403.8	19448.0	21192.4	21404.9	18061.1	14737.1	10670.5
67.5°	392.1	1304.0	8991.7	13060.0	15389.1	17687.1	17841.7	15163.7	11417.5	8175.6
70°	318.7	881.7	6206.6	9551.3	12693.0	15276.8	15286.3	12597.1	8521.9	5356.8
72.5°	282.4	610.6	3602.9	6965.7	10292.2	12448.6	12197.3	10222.3	6549.4	3172.8
75°	244.4	405.0	1766.9	4258.3	6240.3	6282.6	6378.5	4742.0	3273.9	1508.7
77.5°	201.2	287.6	696.1	1163.3	1871.4	2395.6	2484.5	1882.6	1089.0	371.3
80°	138.2	136.4	187.4	356.7	535.4	671.0	626.1	484.5	285.0	142.5
82.5°	59.6	64.8	84.6	101.9	82.9	80.3	76.9	49.2	38.0	29.4
85°	19.0	17.3	18.1	18.1	14.7	11.2	11.2	5.2	0.0	0.0
87.5°	9.5	7.8	7.8	6.9	4.3	1.7	0.9	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°
50.1	0°	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
46.6	2.5°	45.8	45.8	44.0	42.3	41.5	39.7	38.9	38.0	37.1	36.3
50.1	5°	48.4	47.5	44.9	42.3	39.7	37.1	35.4	33.7	32.0	31.1
55.3	7.5°	52.7	51.0	45.8	41.5	38.0	34.5	32.8	30.2	28.5	25.9
61.3	10°	57.9	54.4	47.5	42.3	37.1	32.8	30.2	27.6	25.0	21.6
70.0	12.5°	64.8	58.7	50.1	41.5	35.4	30.2	27.6	24.2	21.6	19.0
81.2	15°	70.8	63.0	51.0	41.5	33.7	27.6	24.2	20.7	18.1	14.7
101.9	17.5°	79.4	66.5	50.1	38.9	31.1	24.2	20.7	18.1	13.8	8.6
151.1	20°	94.1	69.1	48.4	36.3	26.8	19.9	15.5	12.1	6.0	1.7
227.1	22.5°	117.4	76.0	46.6	32.8	23.3	15.5	10.4	4.3	0.0	0.0
345.4	25°	162.4	88.1	46.6	31.1	20.7	11.2	3.5	0.0	0.0	0.0
490.5	27.5°	215.9	104.5	46.6	26.8	16.4	6.0	0.0	0.0	0.0	0.0
668.4	30°	270.3	122.6	46.6	23.3	13.0	0.9	0.0	0.0	0.0	0.0
823.0	32.5°	322.1	138.2	47.5	19.9	8.6	0.0	0.0	0.0	0.0	0.0
1037.2	35°	374.8	140.8	46.6	17.3	5.2	0.0	0.0	0.0	0.0	0.0
1299.7	37.5°	442.2	135.6	44.0	15.5	2.6	0.0	0.0	0.0	0.0	0.0
1709.9	40°	544.1	138.2	41.5	14.7	0.9	0.0	0.0	0.0	0.0	0.0
2441.4	42.5°	732.3	149.4	38.0	14.7	0.0	0.0	0.0	0.0	0.0	0.0
3888.7	45°	1266.0	200.4	34.5	15.5	0.0	0.0	0.0	0.0	0.0	0.0
5837.8	47.5°	2094.2	360.1	33.7	15.5	0.0	0.0	0.0	0.0	0.0	0.0
7032.2	50°	2672.8	453.4	35.4	16.4	0.0	0.0	0.0	0.0	0.0	0.0
7181.6	52.5°	2668.5	505.2	37.1	17.3	3.5	0.0	0.0	0.0	0.0	0.0
6619.4	55°	2372.3	514.7	39.7	19.0	11.2	0.0	0.0	0.0	0.0	0.0
5688.4	57.5°	1982.8	469.8	45.8	23.3	20.7	0.0	0.0	0.0	0.0	0.0
5542.5	58°	1913.7	449.1	47.5	24.2	22.5	0.0	0.0	0.0	0.0	0.0
4807.6	60°	1568.3	366.2	60.5	30.2	30.2	0.0	0.0	0.0	0.0	0.0
3941.4	62.5°	1082.9	319.5	69.1	38.9	31.1	0.0	0.0	0.0	0.0	0.0
2906.0	65°	766.0	288.4	75.1	41.5	25.0	0.0	0.0	0.0	0.0	0.0
2064.8	67.5°	572.6	266.0	82.9	42.3	13.0	0.0	0.0	0.0	0.0	0.0
1295.4	70°	438.7	249.6	101.9	44.9	3.5	0.0	0.0	0.0	0.0	0.0
772.0	72.5°	357.5	230.6	123.5	46.6	0.0	0.0	0.0	0.0	0.0	0.0
462.9	75°	296.2	208.1	119.2	51.0	0.0	0.0	0.0	0.0	0.0	0.0
247.0	77.5°	196.9	161.5	108.8	51.0	0.0	0.0	0.0	0.0	0.0	0.0
88.1	80°	69.1	63.9	84.6	44.9	0.0	0.0	0.0	0.0	0.0	0.0
18.1	82.5°	10.4	8.6	12.1	15.5	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°
50.1	0°	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
35.4	2.5°	35.4	35.4	34.5	35.4	35.4	37.1	41.5	47.5	54.4	57.0
30.2	5°	29.4	28.5	27.6	27.6	27.6	30.2	33.7	40.6	48.4	51.8
25.0	7.5°	24.2	23.3	22.5	21.6	21.6	23.3	27.6	35.4	43.2	46.6
20.7	10°	19.9	18.1	17.3	16.4	16.4	18.1	22.5	30.2	38.9	42.3
17.3	12.5°	16.4	13.8	12.1	11.2	10.4	13.0	17.3	24.2	33.7	38.0
13.0	15°	11.2	8.6	6.0	5.2	4.3	6.9	11.2	19.0	28.5	33.7
6.9	17.5°	6.0	2.6	0.9	0.0	0.0	1.7	5.2	13.8	23.3	27.6
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	17.3	21.6
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	10.4	14.7
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	7.8
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
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	2.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	6.9
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°
50.1	0°	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
59.6	2.5°	61.3	60.5	58.7	57.0	57.0	57.0	59.6	62.2	64.8	64.8
53.5	5°	57.0	57.0	56.1	54.4	54.4	55.3	58.7	63.0	66.5	67.4
49.2	7.5°	52.7	54.4	52.7	51.8	52.7	53.5	57.0	62.2	67.4	69.1
45.8	10°	50.1	51.0	51.0	50.1	50.1	51.8	55.3	62.2	69.1	71.7
41.5	12.5°	46.6	48.4	47.5	47.5	47.5	49.2	53.5	61.3	70.8	74.3
37.1	15°	43.2	45.8	45.8	44.9	44.9	45.8	51.8	60.5	73.4	79.4
32.0	17.5°	39.7	42.3	43.2	41.5	41.5	43.2	49.2	60.5	75.1	85.5
25.9	20°	32.8	37.1	39.7	37.1	37.1	38.9	44.9	57.0	76.0	91.5
19.0	22.5°	25.9	30.2	33.7	32.8	32.8	33.7	41.5	54.4	76.9	101.9
11.2	25°	19.0	23.3	25.9	27.6	27.6	30.2	38.0	52.7	80.3	123.5
5.2	27.5°	11.2	16.4	19.9	21.6	22.5	25.9	35.4	51.0	86.4	154.6
0.0	30°	5.2	9.5	13.8	17.3	17.3	23.3	32.8	49.2	94.1	199.5
0.0	32.5°	0.0	4.3	6.9	12.1	13.0	19.0	30.2	47.5	105.4	242.7
0.0	35°	0.0	0.0	3.5	9.5	9.5	15.5	27.6	45.8	122.6	275.5
0.0	37.5°	0.0	0.0	0.0	6.9	7.8	13.8	26.8	44.9	126.1	278.1
0.0	40°	0.0	0.0	0.0	5.2	6.0	13.0	26.8	45.8	114.0	272.0
0.0	42.5°	0.0	0.0	0.0	3.5	4.3	13.0	26.8	47.5	102.8	278.9
0.0	45°	0.0	0.0	0.0	2.6	3.5	13.8	25.9	46.6	96.7	315.2
0.0	47.5°	0.0	0.0	0.0	3.5	5.2	13.8	25.0	45.8	97.6	435.2
0.0	50°	0.0	0.0	0.0	4.3	6.0	13.8	25.9	44.0	107.1	669.3
0.0	52.5°	0.0	0.0	0.0	3.5	5.2	15.5	28.5	43.2	116.6	870.5
0.0	55°	0.0	0.0	0.0	0.9	2.6	19.9	31.1	43.2	131.3	920.6
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	22.5	35.4	45.8	155.4	900.7
0.0	58°	0.0	0.0	0.0	0.0	0.0	22.5	36.3	45.8	157.2	883.4
0.0	60°	0.0	0.0	0.0	0.0	0.0	22.5	39.7	51.0	169.3	786.7
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	19.0	47.5	63.9	176.2	618.3
0.0	65°	0.0	0.0	0.0	0.0	0.0	15.5	56.1	70.0	181.4	492.2
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	14.7	57.9	70.8	183.9	392.1
0.0	70°	0.0	0.0	0.0	0.0	0.0	15.5	57.0	76.0	192.6	318.7
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	17.3	51.8	83.8	192.6	282.4
0.0	75°	0.0	0.0	0.0	0.0	0.0	18.1	48.4	94.1	175.3	244.4
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	17.3	47.5	109.7	156.3	201.2
0.0	80°	1.7	2.6	2.6	1.7	1.7	14.7	46.6	111.4	133.0	138.2
0.9	82.5°	5.2	6.9	6.0	4.3	4.3	13.0	41.5	93.3	69.1	59.6
5.2	85°	9.5	11.2	11.2	9.5	9.5	12.1	25.9	33.7	23.3	19.0
9.5	87.5°	13.0	14.7	14.7	13.0	13.0	12.1	11.2	10.4	9.5	9.5
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: SP1-2407-184-8

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-827-U-5WQ

Data in this report applies to families of products including GSS-SB1A-827-U-5WQ

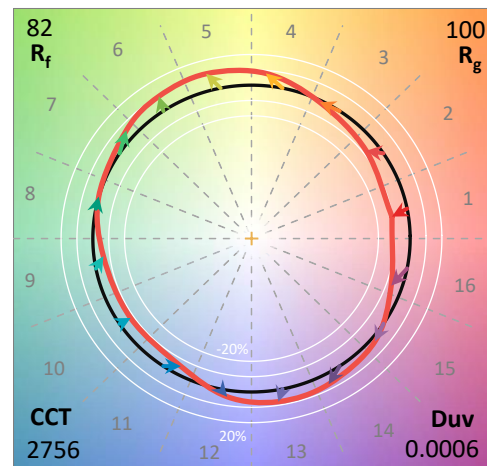
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-8
 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-827-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K): 2756
 CIE u' : 0.2599
 CIE v' : 0.5271
 Duv: 0.0006
 CIE x: 0.4563
 CIE y: 0.4112
 CIE z: 0.1325
 Peak Wavelength (nm): 609
 Dominant Wavelength (nm): 583
 Purity: 60.41121
 R_f: 82.2
 R_g: 99.9

CRI (Ra): 82.9
 R1: 81.6
 R2: 88.8
 R3: 96.0
 R4: 83.4
 R5: 81.4
 R6: 87.0
 R7: 84.0
 R8: 60.8
 R9: 10.8
 R10: 74.8
 R11: 84.3
 R12: 72.1
 R13: 82.9
 R14: 97.3
 R15: 73.7



Test Conditions

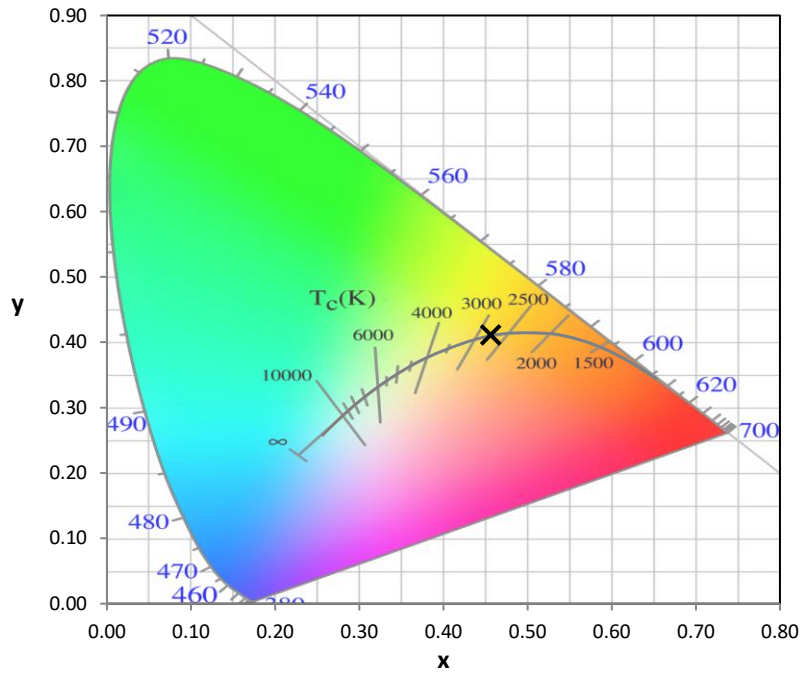
Stabilization Time: 29M
 Operation Time: 1H 29M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-8

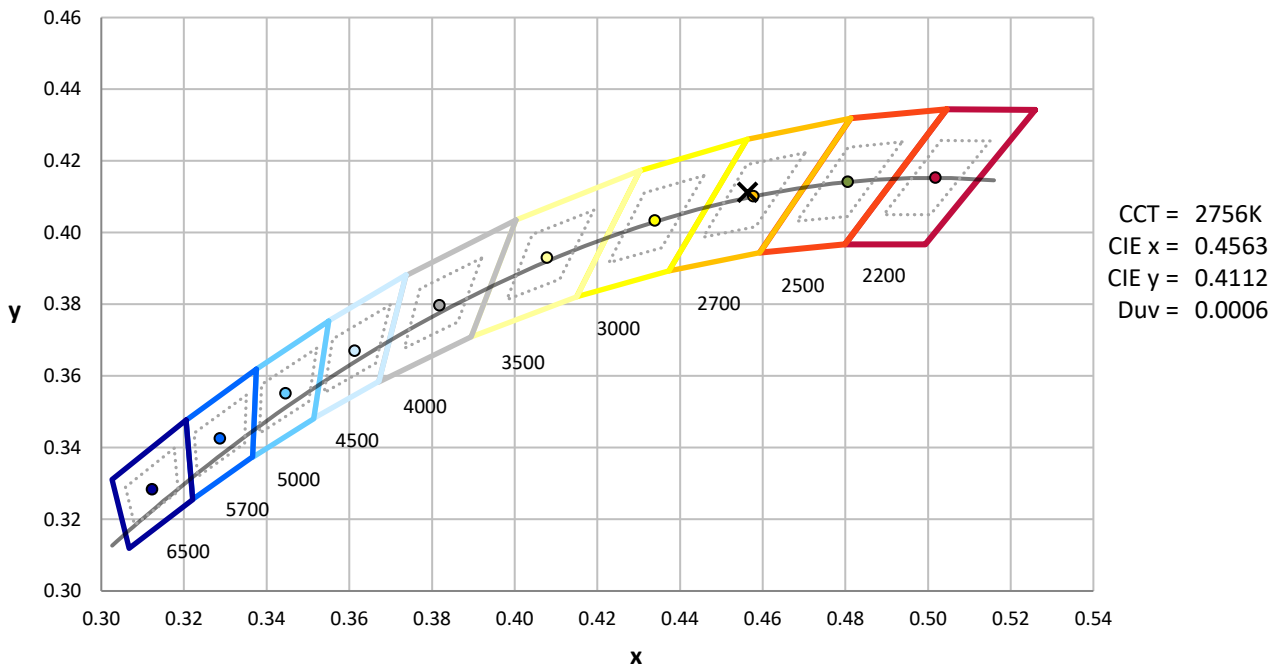
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



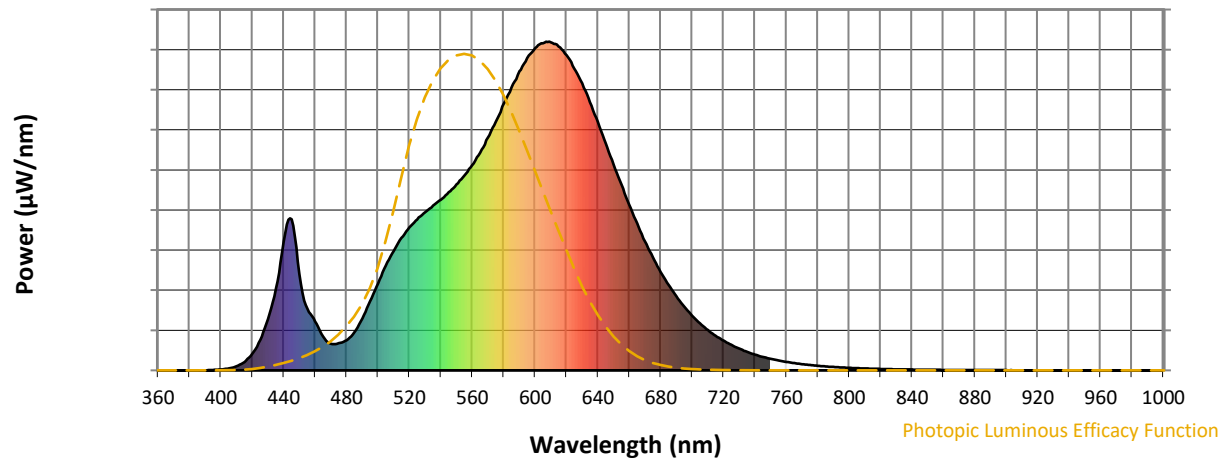
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-8

Photopic Flux vs. Wavelength

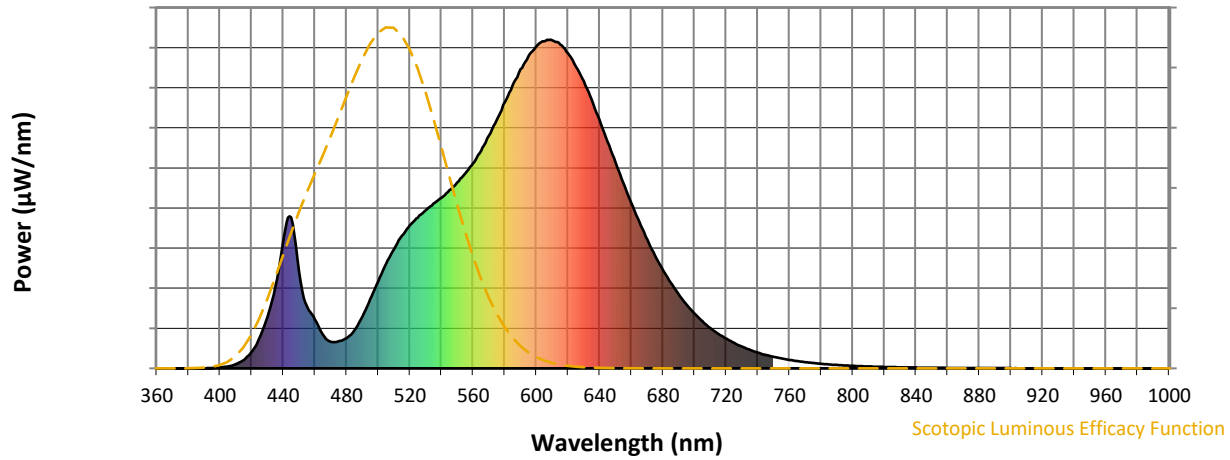


Photopic Lumens: NR

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

Scotopic Flux vs. Wavelength



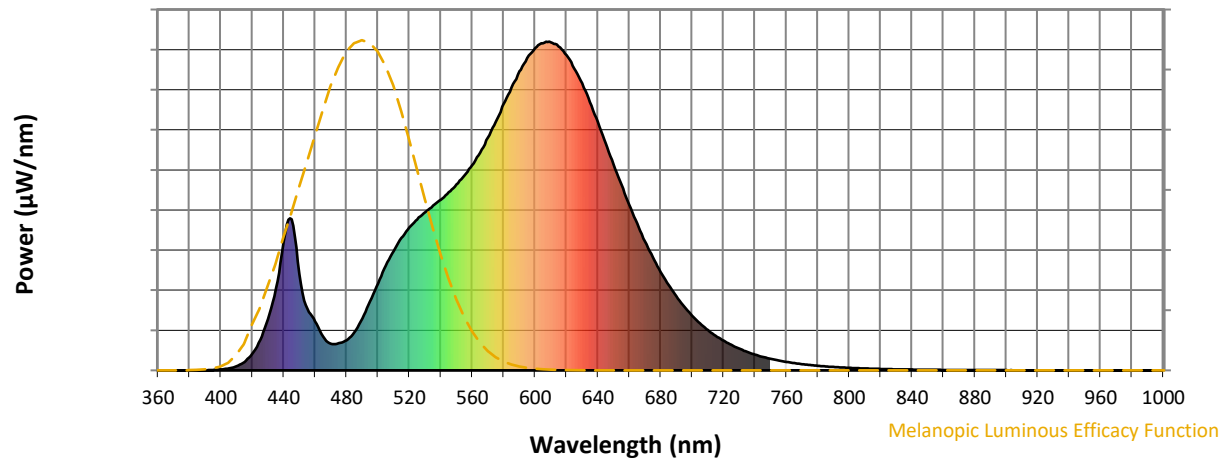
Scotopic Lumens: NR

S/P: 1.2

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.16

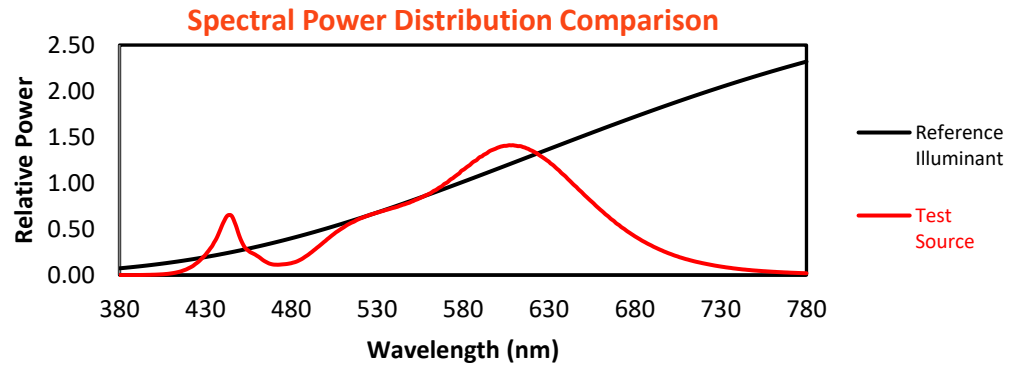
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

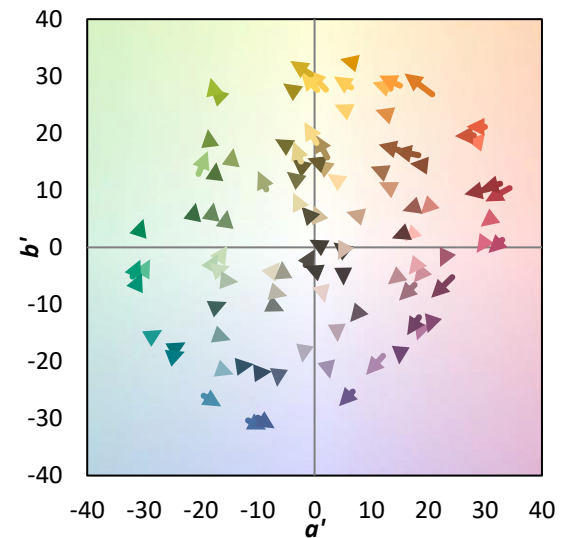
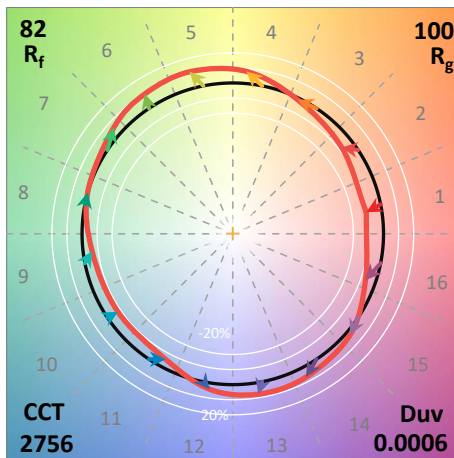
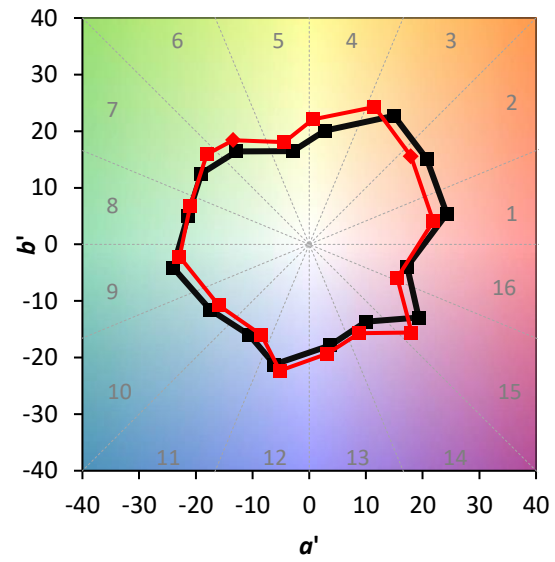
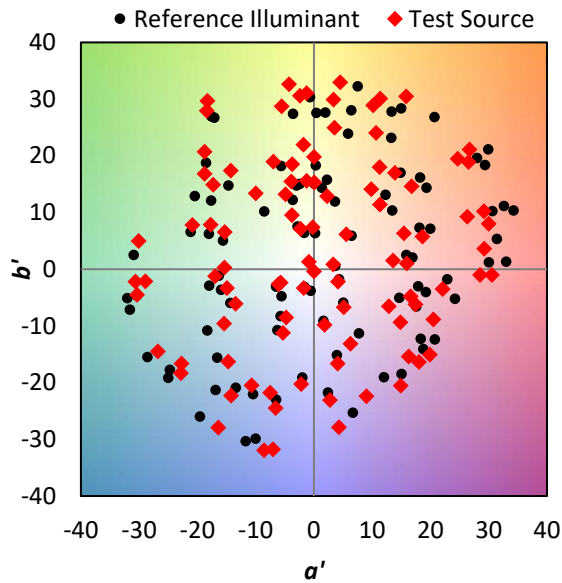
TM-30-18

Summary

$R_f = 82.2$
 $R_g = 99.9$
 $CIE\ R_a = 82.9$
 $R_9 = 10.8$

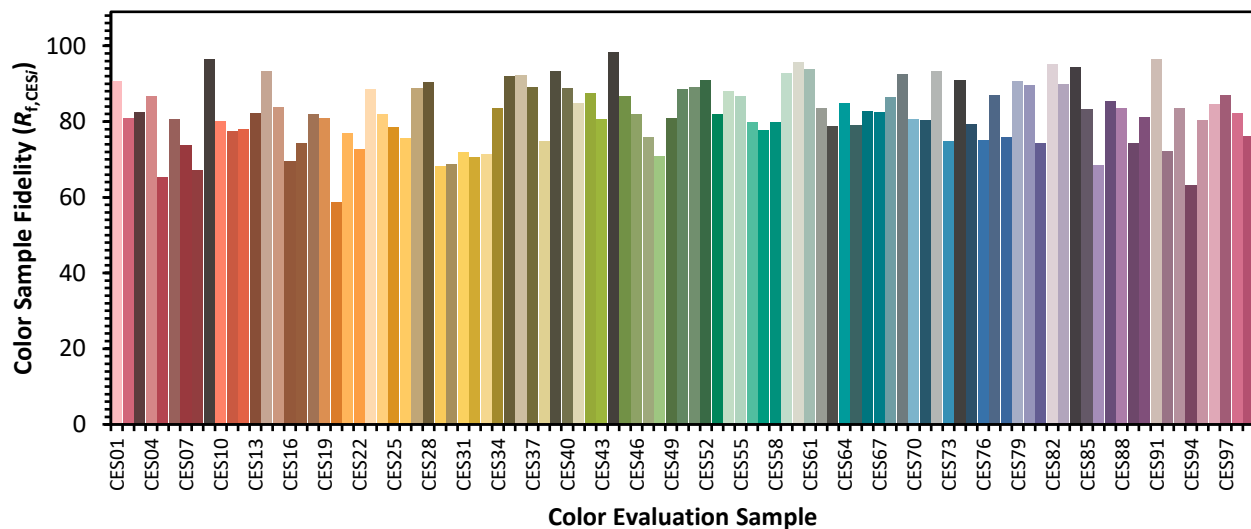


Color Vector Graphics

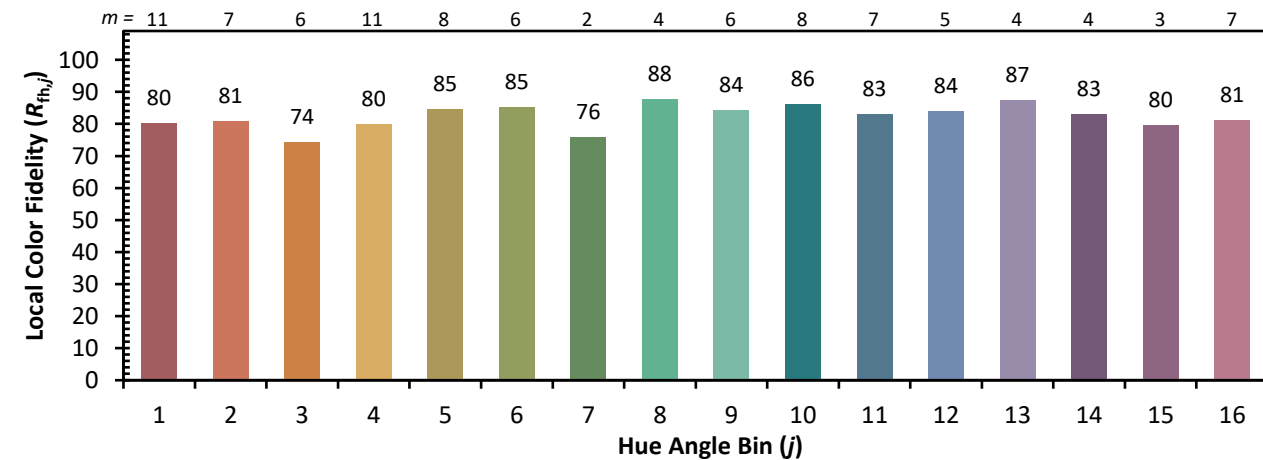
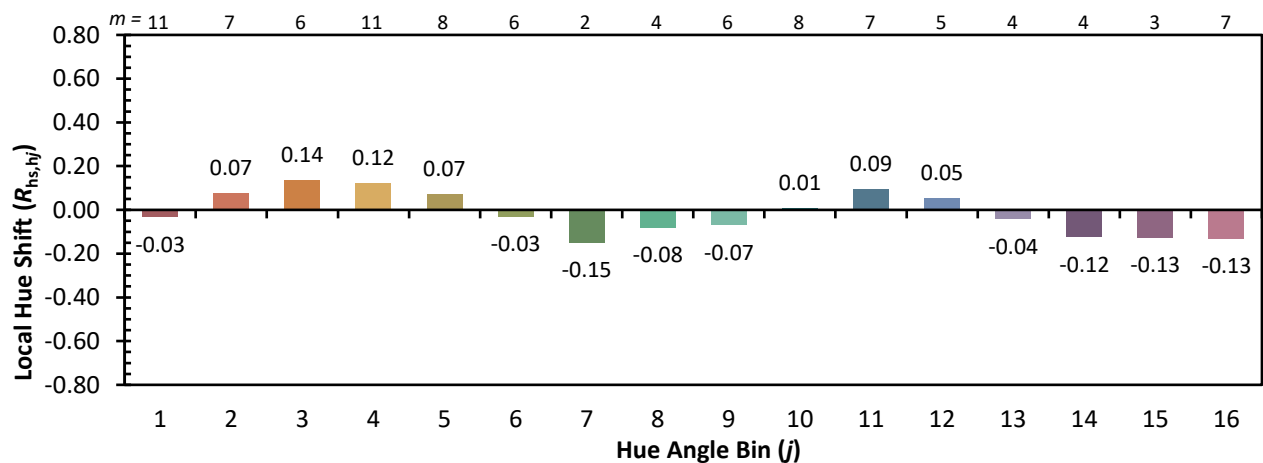
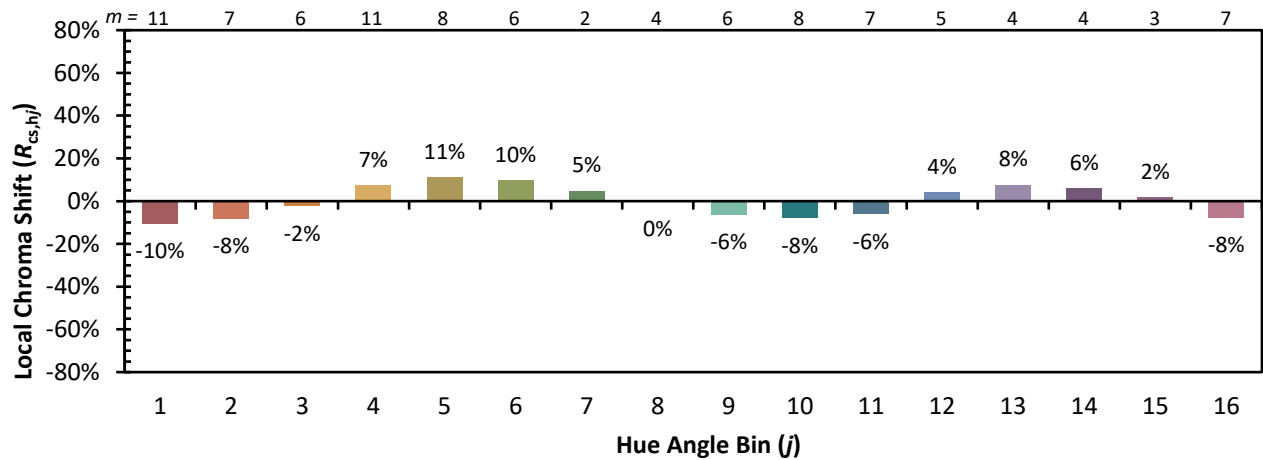


Individual Sample Fidelity Index ($R_{f,i}$)

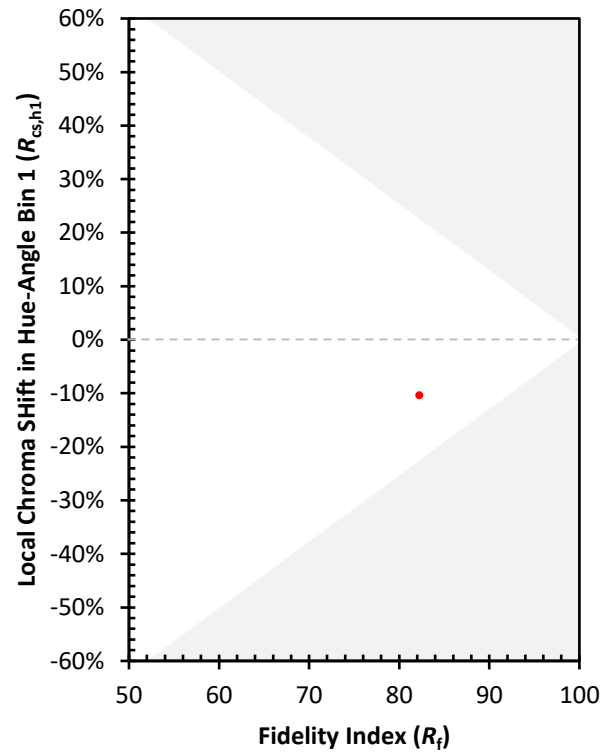
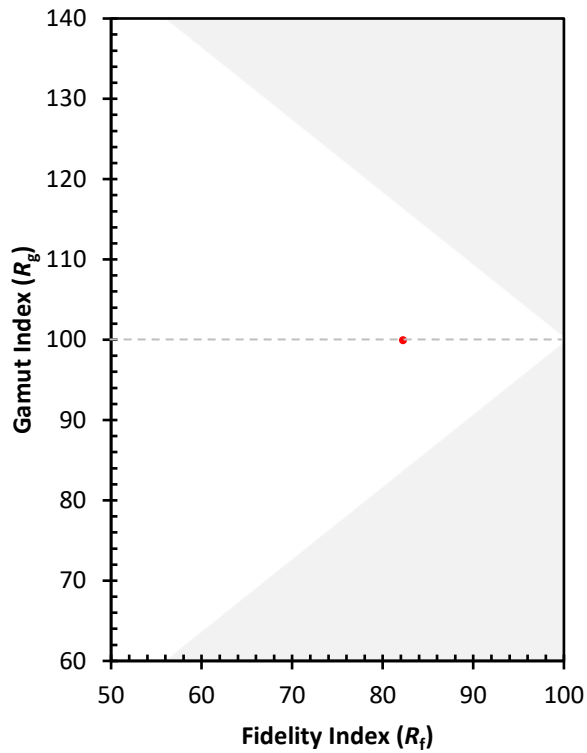
CES01 = 86	CES26 = 76	CES51 = 89	CES76 = 75
CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82 = 95
CES08 = 42	CES33 = 71	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 84	CES59 = 93	CES84 = 94
CES10 = 77	CES35 = 92	CES60 = 96	CES85 = 83
CES11 = 59	CES36 = 92	CES61 = 94	CES86 = 69
CES12 = 66	CES37 = 89	CES62 = 84	CES87 = 85
CES13 = 44	CES38 = 75	CES63 = 79	CES88 = 84
CES14 = 74	CES39 = 93	CES64 = 85	CES89 = 74
CES15 = 72	CES40 = 89	CES65 = 79	CES90 = 81
CES16 = 48	CES41 = 85	CES66 = 83	CES91 = 96
CES17 = 50	CES42 = 88	CES67 = 82	CES92 = 72
CES18 = 57	CES43 = 81	CES68 = 86	CES93 = 84
CES19 = 73	CES44 = 98	CES69 = 92	CES94 = 63
CES20 = 67	CES45 = 87	CES70 = 81	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 81	CES96 = 85
CES22 = 79	CES47 = 76	CES72 = 93	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 75	CES98 = 82
CES24 = 91	CES49 = 81	CES74 = 91	CES99 = 76
CES25 = 72	CES50 = 88	CES75 = 79	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)