

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: P1049865

Luminaire Tested: **GALN-SA3A-850-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049865
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-850-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 3xLight Square PACKAGE
80CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9121.6 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

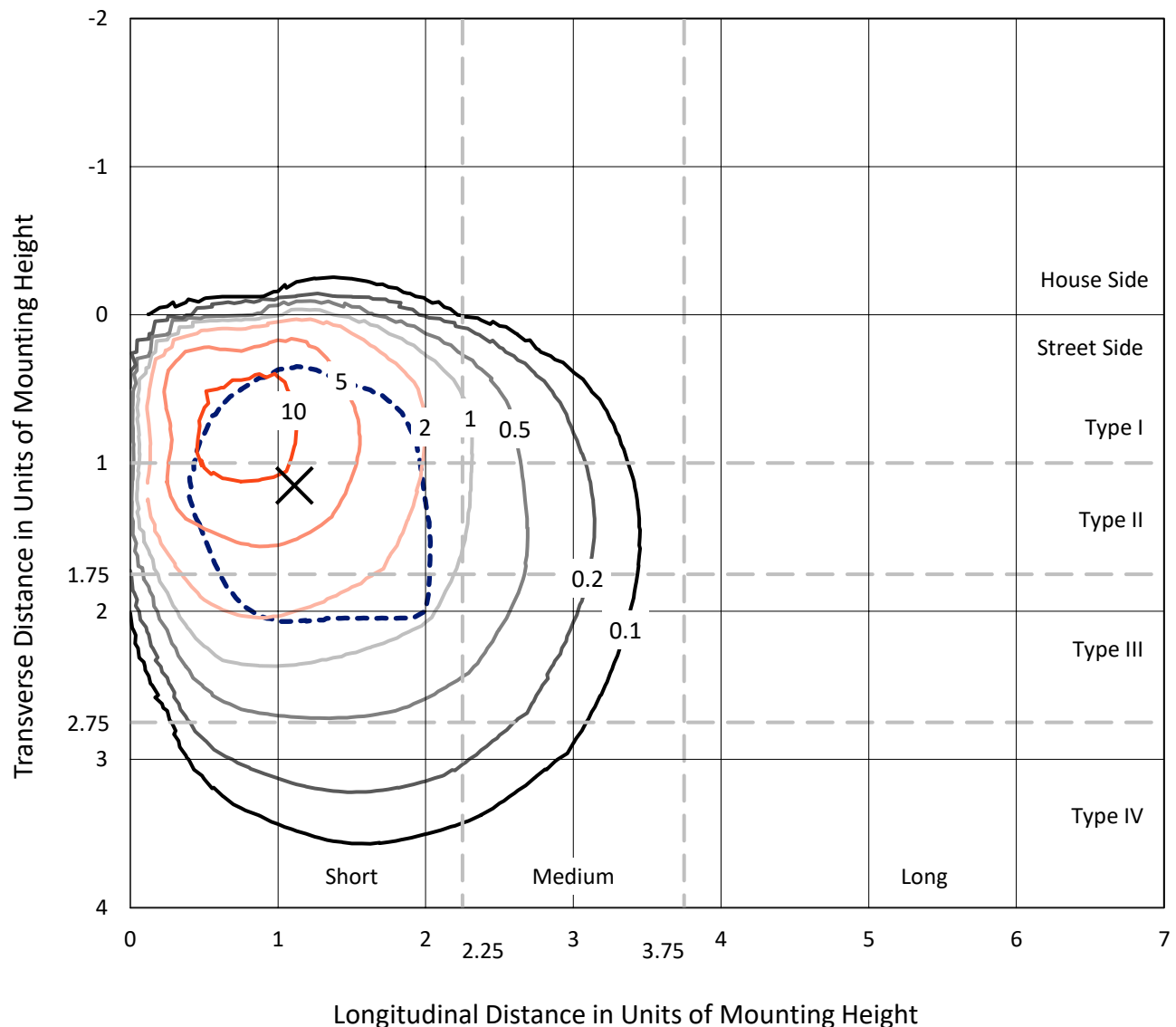
Input Watts (W): 81.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

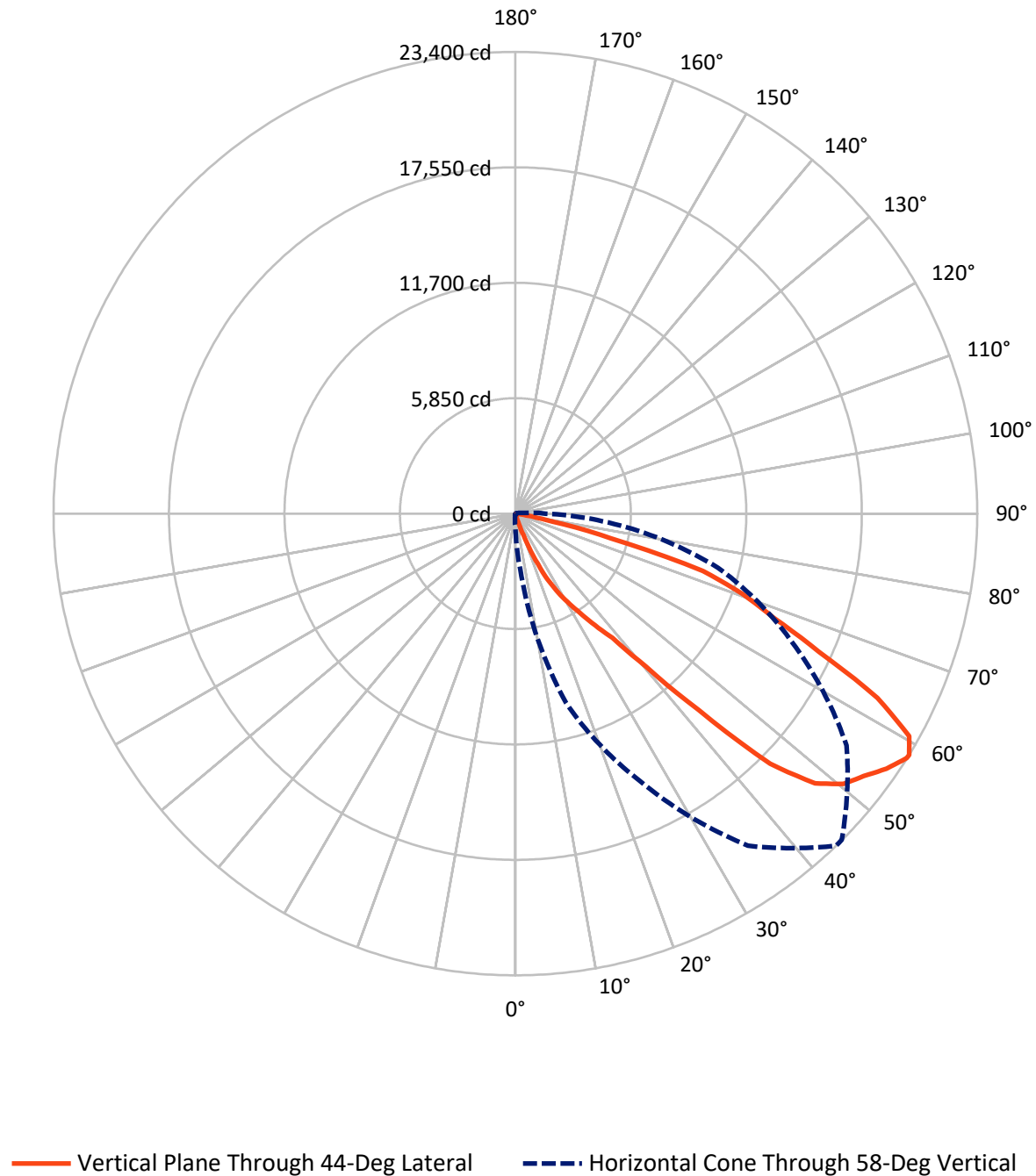
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15.9 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	62.3	0.0	62.3
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	9059.3	0.0	9059.3
	% Fixture	99.3	0.0	99.3
Total	Lumens	9121.6	0.0	9121.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.6	0.0
10°-20°	20.0	0.2
20°-30°	216.1	2.4
30°-40°	639.1	7.0
40°-50°	1904.7	20.9
50°-60°	3022.3	33.1
60°-70°	2521.0	27.6
70°-80°	777.5	8.5
80°-90°	17.3	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°	9121.6	100.0
0°-180°	9121.6	100.0



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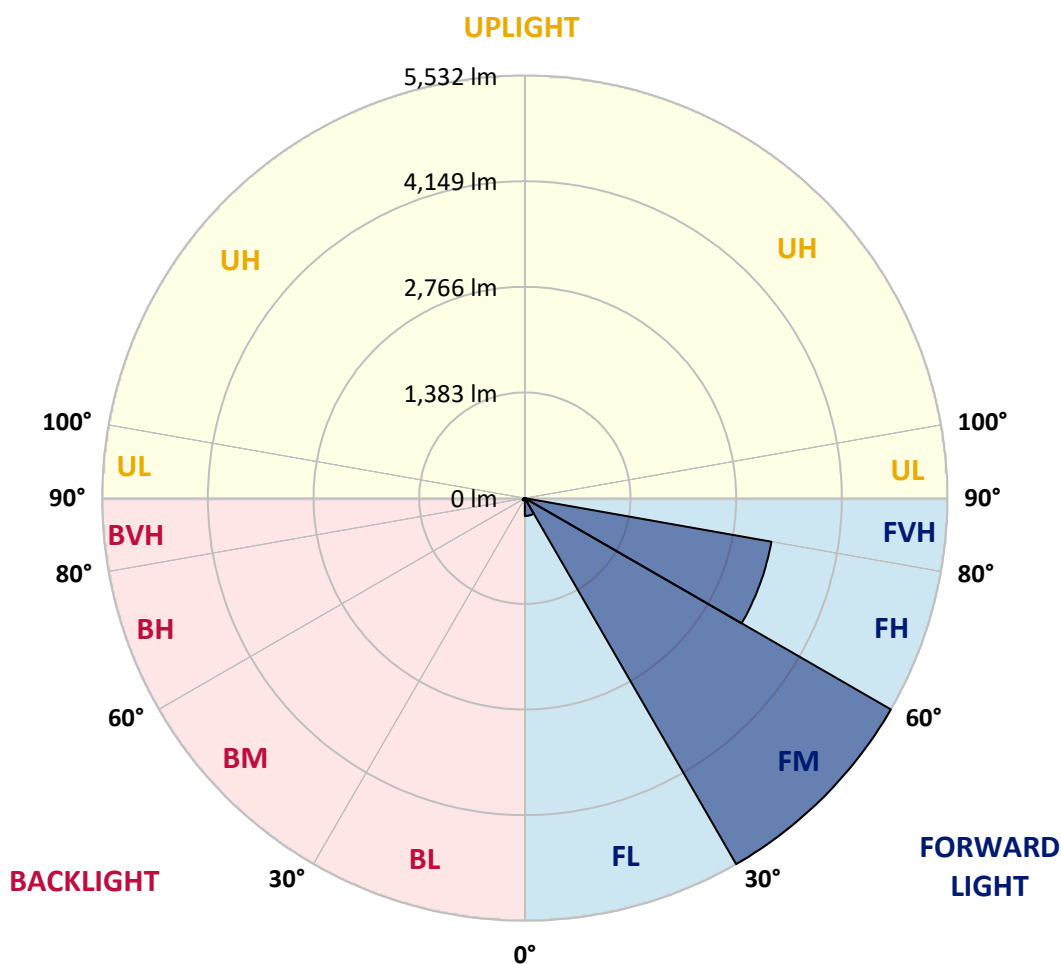
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	233.6	2.6			
FM	(30°-60°)	5532.0	60.6			
FH	(60°-80°)	3277.2	35.9			G2/5000
FVH	(80°-90°)	16.4	0.2			G1/100
BL	(0°-30°)	6.1	0.1	B0/110		
BM	(30°-60°)	34.1	0.4	B0/220		
BH	(60°-80°)	21.3	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°	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
2.5°	51.7	51.7	49.6	46.9	44.1	41.3	40.7	39.3	38.6	37.9
5°	53.7	53.7	53.1	51.0	48.2	46.2	46.2	44.1	42.7	41.3
7.5°	55.1	55.8	57.2	56.5	55.1	53.1	53.1	51.7	49.6	46.2
10°	57.2	59.3	62.0	63.4	64.1	64.1	63.4	62.7	59.3	54.4
12.5°	59.3	63.4	70.3	77.2	81.3	86.8	86.1	84.8	75.8	65.5
15°	63.4	69.6	84.1	104.0	135.1	154.3	161.9	155.0	125.4	88.2
17.5°	68.2	78.6	122.0	217.7	356.9	423.1	463.0	430.7	285.3	167.4
20°	73.0	95.8	226.7	564.3	926.1	1142.5	1202.4	1108.7	711.8	319.0
22.5°	81.3	134.4	459.6	1166.6	1995.5	2320.1	2381.4	2081.6	1344.3	629.8
25°	98.5	195.0	792.4	1901.1	2978.1	3525.9	3500.4	3107.6	2180.9	1006.0
27.5°	123.3	283.9	1198.3	2701.1	3919.4	4402.4	4460.3	3974.5	2907.1	1479.4
30°	159.2	393.5	1633.8	3341.9	4673.9	5196.2	5205.8	4703.5	3556.9	1894.9
32.5°	193.6	496.8	2014.8	3961.4	5417.4	5990.0	6032.7	5414.6	4042.0	2327.6
35°	219.8	564.3	2400.7	4505.7	6167.1	6956.0	6953.3	6219.4	4616.7	2714.2
37.5°	221.9	631.9	2750.0	5062.5	7116.6	7999.9	8087.5	7278.5	5311.2	3192.4
40°	217.1	707.7	3192.4	5930.7	8827.5	10182.9	10260.0	9240.2	6704.5	4011.0
42.5°	222.6	839.3	3910.4	7534.1	11668.5	13615.1	13763.9	12691.7	9265.7	5681.3
45°	251.5	1086.6	5414.6	10216.6	15718.1	18091.2	18041.6	16497.4	12245.9	8223.9
47.5°	347.3	1692.3	7644.4	12827.5	18306.2	20419.5	20462.2	18574.9	13985.1	10178.7
50°	534.0	2589.5	9517.9	14207.7	19419.0	21539.2	21499.2	19318.4	14645.9	11141.4
52.5°	694.6	3238.6	10457.8	14692.1	19561.6	22092.5	22089.8	19514.1	14748.6	11224.0
55°	734.5	3287.5	10465.4	14718.2	19881.3	22816.7	22907.7	19995.7	14881.6	10863.0
57.5°	718.7	2910.6	10028.5	14869.8	20450.5	23376.9	23381.8	20462.2	15219.2	10641.8
58°	704.9	2851.3	9940.3	14956.0	20548.4	23400.4	23388.6	20483.6	15494.1	10633.5
60°	627.7	2475.8	9596.5	15175.8	20403.0	22919.4	22809.8	20017.1	15453.5	10548.8
62.5°	493.4	1931.4	9258.2	14921.5	18844.3	20591.1	20636.6	17721.8	14087.8	10054.7
65°	392.8	1439.4	8552.6	13088.6	15517.6	16909.4	17079.0	14410.9	11758.7	8514.0
67.5°	312.8	1040.5	7174.5	10420.6	12279.0	14112.6	14235.9	12099.1	9110.0	6523.3
70°	254.3	703.5	4952.2	7621.0	10127.8	12189.4	12197.0	10051.3	6799.6	4274.2
72.5°	225.3	487.2	2874.7	5557.9	8212.2	9932.7	9732.2	8156.4	5225.8	2531.6
75°	195.0	323.2	1409.8	3397.7	4979.1	5012.9	5089.4	3783.6	2612.2	1203.8
77.5°	160.6	229.5	555.4	928.2	1493.2	1911.4	1982.4	1502.1	868.9	296.3
80°	110.2	108.9	149.5	284.6	427.2	535.4	499.6	386.6	227.4	113.7
82.5°	47.5	51.7	67.5	81.3	66.1	64.1	61.3	39.3	30.3	23.4
85°	15.2	13.8	14.5	14.5	11.7	9.0	9.0	4.1	0.0	0.0
87.5°	7.6	6.2	6.2	5.5	3.4	1.4	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°
40.0	0°	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
37.2	2.5°	36.5	36.5	35.1	33.8	33.1	31.7	31.0	30.3	29.6	28.9
40.0	5°	38.6	37.9	35.8	33.8	31.7	29.6	28.3	26.9	25.5	24.8
44.1	7.5°	42.0	40.7	36.5	33.1	30.3	27.6	26.2	24.1	22.7	20.7
48.9	10°	46.2	43.4	37.9	33.8	29.6	26.2	24.1	22.0	20.0	17.2
55.8	12.5°	51.7	46.9	40.0	33.1	28.3	24.1	22.0	19.3	17.2	15.2
64.8	15°	56.5	50.3	40.7	33.1	26.9	22.0	19.3	16.5	14.5	11.7
81.3	17.5°	63.4	53.1	40.0	31.0	24.8	19.3	16.5	14.5	11.0	6.9
120.6	20°	75.1	55.1	38.6	28.9	21.4	15.8	12.4	9.6	4.8	1.4
181.2	22.5°	93.7	60.6	37.2	26.2	18.6	12.4	8.3	3.4	0.0	0.0
275.6	25°	129.5	70.3	37.2	24.8	16.5	9.0	2.8	0.0	0.0	0.0
391.4	27.5°	172.3	83.4	37.2	21.4	13.1	4.8	0.0	0.0	0.0	0.0
533.3	30°	215.7	97.8	37.2	18.6	10.3	0.7	0.0	0.0	0.0	0.0
656.7	32.5°	257.0	110.2	37.9	15.8	6.9	0.0	0.0	0.0	0.0	0.0
827.6	35°	299.1	112.3	37.2	13.8	4.1	0.0	0.0	0.0	0.0	0.0
1037.0	37.5°	352.8	108.2	35.1	12.4	2.1	0.0	0.0	0.0	0.0	0.0
1364.3	40°	434.1	110.2	33.1	11.7	0.7	0.0	0.0	0.0	0.0	0.0
1948.0	42.5°	584.3	119.2	30.3	11.7	0.0	0.0	0.0	0.0	0.0	0.0
3102.8	45°	1010.2	159.9	27.6	12.4	0.0	0.0	0.0	0.0	0.0	0.0
4658.0	47.5°	1671.0	287.3	26.9	12.4	0.0	0.0	0.0	0.0	0.0	0.0
5611.0	50°	2132.6	361.8	28.3	13.1	0.0	0.0	0.0	0.0	0.0	0.0
5730.2	52.5°	2129.2	403.1	29.6	13.8	2.8	0.0	0.0	0.0	0.0	0.0
5281.6	55°	1892.8	410.7	31.7	15.2	9.0	0.0	0.0	0.0	0.0	0.0
4538.8	57.5°	1582.1	374.8	36.5	18.6	16.5	0.0	0.0	0.0	0.0	0.0
4422.4	58°	1526.9	358.3	37.9	19.3	17.9	0.0	0.0	0.0	0.0	0.0
3836.0	60°	1251.3	292.2	48.2	24.1	24.1	0.0	0.0	0.0	0.0	0.0
3144.9	62.5°	864.1	255.0	55.1	31.0	24.8	0.0	0.0	0.0	0.0	0.0
2318.7	65°	611.2	230.1	59.9	33.1	20.0	0.0	0.0	0.0	0.0	0.0
1647.5	67.5°	456.8	212.2	66.1	33.8	10.3	0.0	0.0	0.0	0.0	0.0
1033.6	70°	350.0	199.1	81.3	35.8	2.8	0.0	0.0	0.0	0.0	0.0
616.0	72.5°	285.3	184.0	98.5	37.2	0.0	0.0	0.0	0.0	0.0	0.0
369.3	75°	236.3	166.1	95.1	40.7	0.0	0.0	0.0	0.0	0.0	0.0
197.1	77.5°	157.1	128.9	86.8	40.7	0.0	0.0	0.0	0.0	0.0	0.0
70.3	80°	55.1	51.0	67.5	35.8	0.0	0.0	0.0	0.0	0.0	0.0
14.5	82.5°	8.3	6.9	9.6	12.4	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

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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
40.0	0°	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
28.3	2.5°	28.3	28.3	27.6	28.3	28.3	29.6	33.1	37.9	43.4	45.5
24.1	5°	23.4	22.7	22.0	22.0	22.0	24.1	26.9	32.4	38.6	41.3
20.0	7.5°	19.3	18.6	17.9	17.2	17.2	18.6	22.0	28.3	34.5	37.2
16.5	10°	15.8	14.5	13.8	13.1	13.1	14.5	17.9	24.1	31.0	33.8
13.8	12.5°	13.1	11.0	9.6	9.0	8.3	10.3	13.8	19.3	26.9	30.3
10.3	15°	9.0	6.9	4.8	4.1	3.4	5.5	9.0	15.2	22.7	26.9
5.5	17.5°	4.8	2.1	0.7	0.0	0.0	1.4	4.1	11.0	18.6	22.0
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	13.8	17.2
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	8.3	11.7
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	6.2
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
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	2.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.5
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°
40.0	0°	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
47.5	2.5°	48.9	48.2	46.9	45.5	45.5	45.5	47.5	49.6	51.7	51.7
42.7	5°	45.5	45.5	44.8	43.4	43.4	44.1	46.9	50.3	53.1	53.7
39.3	7.5°	42.0	43.4	42.0	41.3	42.0	42.7	45.5	49.6	53.7	55.1
36.5	10°	40.0	40.7	40.7	40.0	40.0	41.3	44.1	49.6	55.1	57.2
33.1	12.5°	37.2	38.6	37.9	37.9	37.9	39.3	42.7	48.9	56.5	59.3
29.6	15°	34.5	36.5	36.5	35.8	35.8	36.5	41.3	48.2	58.6	63.4
25.5	17.5°	31.7	33.8	34.5	33.1	33.1	34.5	39.3	48.2	59.9	68.2
20.7	20°	26.2	29.6	31.7	29.6	29.6	31.0	35.8	45.5	60.6	73.0
15.2	22.5°	20.7	24.1	26.9	26.2	26.2	26.9	33.1	43.4	61.3	81.3
9.0	25°	15.2	18.6	20.7	22.0	22.0	24.1	30.3	42.0	64.1	98.5
4.1	27.5°	9.0	13.1	15.8	17.2	17.9	20.7	28.3	40.7	68.9	123.3
0.0	30°	4.1	7.6	11.0	13.8	13.8	18.6	26.2	39.3	75.1	159.2
0.0	32.5°	0.0	3.4	5.5	9.6	10.3	15.2	24.1	37.9	84.1	193.6
0.0	35°	0.0	0.0	2.8	7.6	7.6	12.4	22.0	36.5	97.8	219.8
0.0	37.5°	0.0	0.0	0.0	5.5	6.2	11.0	21.4	35.8	100.6	221.9
0.0	40°	0.0	0.0	0.0	4.1	4.8	10.3	21.4	36.5	91.0	217.1
0.0	42.5°	0.0	0.0	0.0	2.8	3.4	10.3	21.4	37.9	82.0	222.6
0.0	45°	0.0	0.0	0.0	2.1	2.8	11.0	20.7	37.2	77.2	251.5
0.0	47.5°	0.0	0.0	0.0	2.8	4.1	11.0	20.0	36.5	77.9	347.3
0.0	50°	0.0	0.0	0.0	3.4	4.8	11.0	20.7	35.1	85.4	534.0
0.0	52.5°	0.0	0.0	0.0	2.8	4.1	12.4	22.7	34.5	93.0	694.6
0.0	55°	0.0	0.0	0.0	0.7	2.1	15.8	24.8	34.5	104.7	734.5
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	17.9	28.3	36.5	124.0	718.7
0.0	58°	0.0	0.0	0.0	0.0	0.0	17.9	28.9	36.5	125.4	704.9
0.0	60°	0.0	0.0	0.0	0.0	0.0	17.9	31.7	40.7	135.1	627.7
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	15.2	37.9	51.0	140.6	493.4
0.0	65°	0.0	0.0	0.0	0.0	0.0	12.4	44.8	55.8	144.7	392.8
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	11.7	46.2	56.5	146.8	312.8
0.0	70°	0.0	0.0	0.0	0.0	0.0	12.4	45.5	60.6	153.7	254.3
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	13.8	41.3	66.8	153.7	225.3
0.0	75°	0.0	0.0	0.0	0.0	0.0	14.5	38.6	75.1	139.9	195.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	13.8	37.9	87.5	124.7	160.6
0.0	80°	1.4	2.1	2.1	1.4	1.4	11.7	37.2	88.9	106.1	110.2
0.7	82.5°	4.1	5.5	4.8	3.4	3.4	10.3	33.1	74.4	55.1	47.5
4.1	85°	7.6	9.0	9.0	7.6	7.6	9.6	20.7	26.9	18.6	15.2
7.6	87.5°	10.3	11.7	11.7	10.3	10.3	9.6	9.0	8.3	7.6	7.6
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: SP1-2407-184-12

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-850-U-5WQ

Data in this report applies to families of products including GSS-SB1A-850-U-5WQ

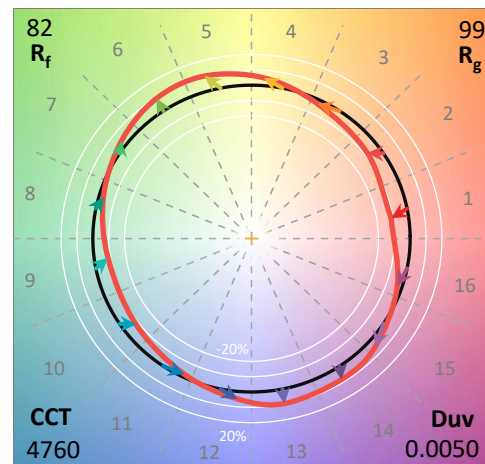
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-12
 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-850-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K): 4760
 CIE u' : 0.2107
 CIE v' : 0.4939
 Duv: 0.0050
 CIE x: 0.3537
 CIE y: 0.3685
 CIE z: 0.2779
 Peak Wavelength (nm): 443
 Dominant Wavelength (nm): 571
 Purity: 16.69598
 R_f: 82
 R_g: 99.4

CRI (Ra): 81.1
 R1: 79.8
 R2: 83.5
 R3: 87.9
 R4: 83.1
 R5: 80.5
 R6: 79.1
 R7: 86.1
 R8: 69.0
 R9: 8.7
 R10: 62.4
 R11: 83.8
 R12: 63.0
 R13: 79.9
 R14: 93.3
 R15: 72.7



Test Conditions

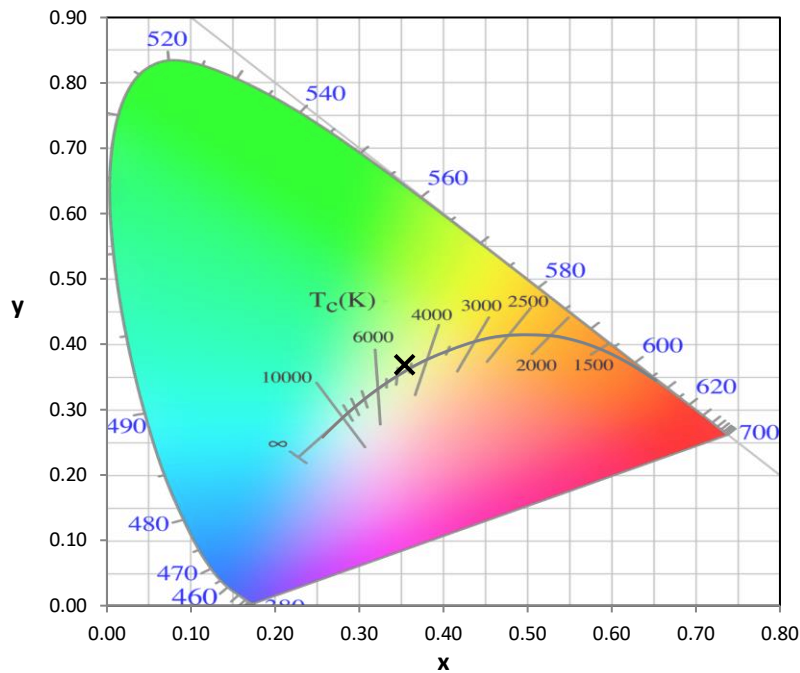
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-12

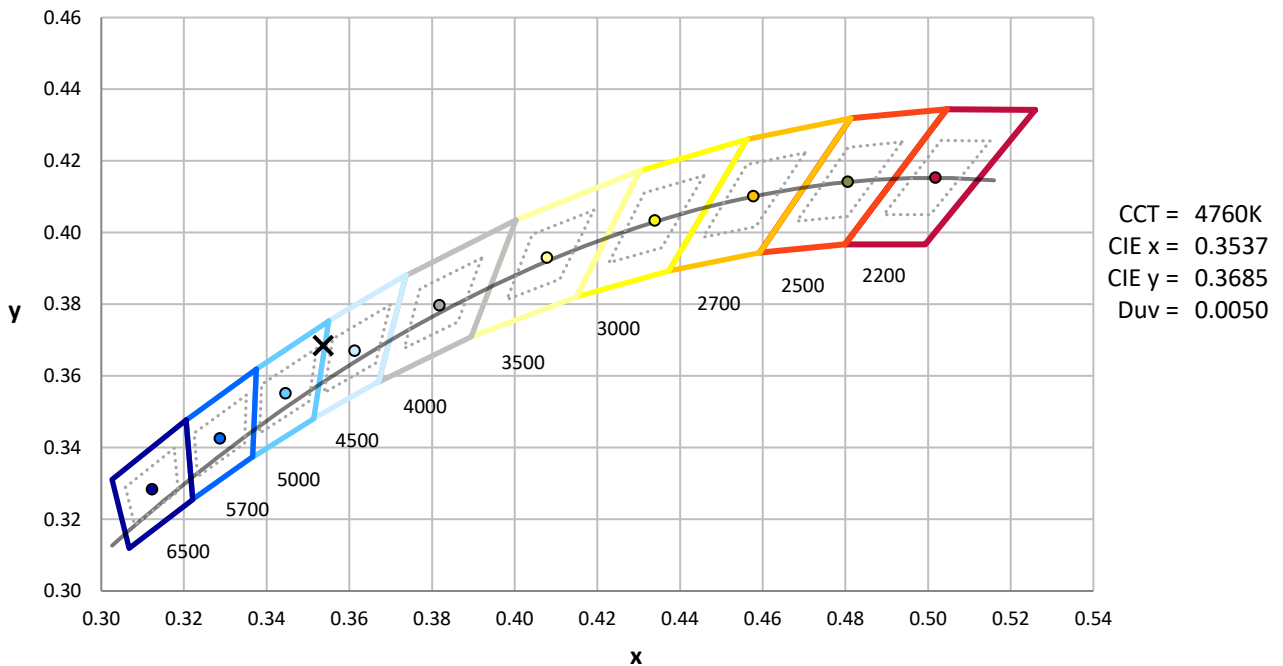
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-12

CIE 1931 Chromaticity Diagram



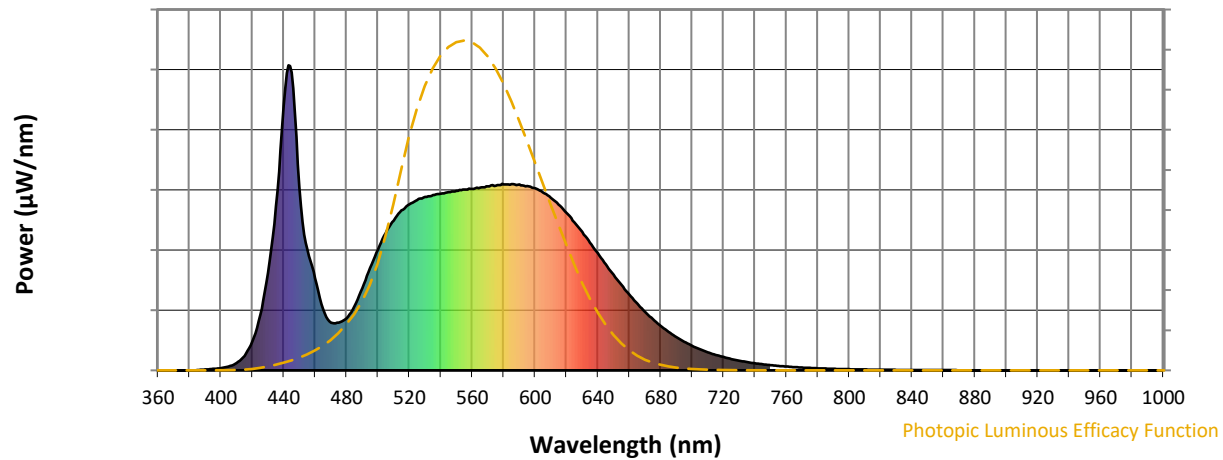
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-12

Photopic Flux vs. Wavelength

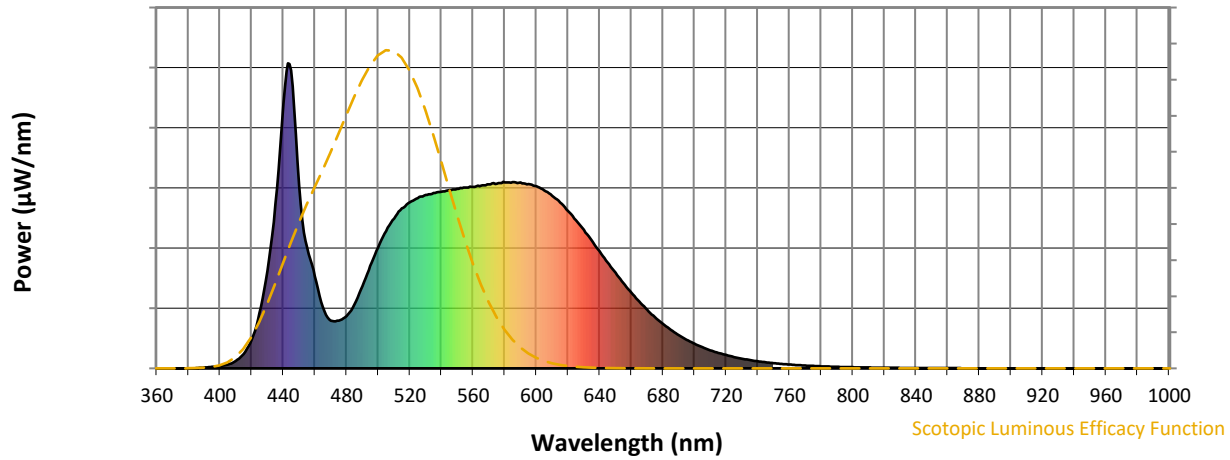


Photopic Lumens: NR

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	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-12

Scotopic Flux vs. Wavelength



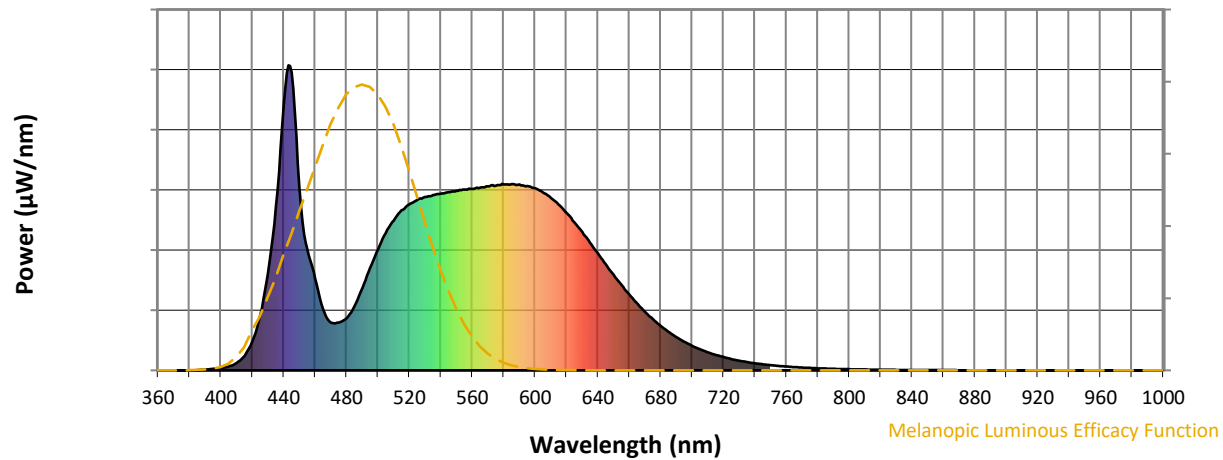
Scotopic Lumens: NR

S/P: 1.83

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	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.74

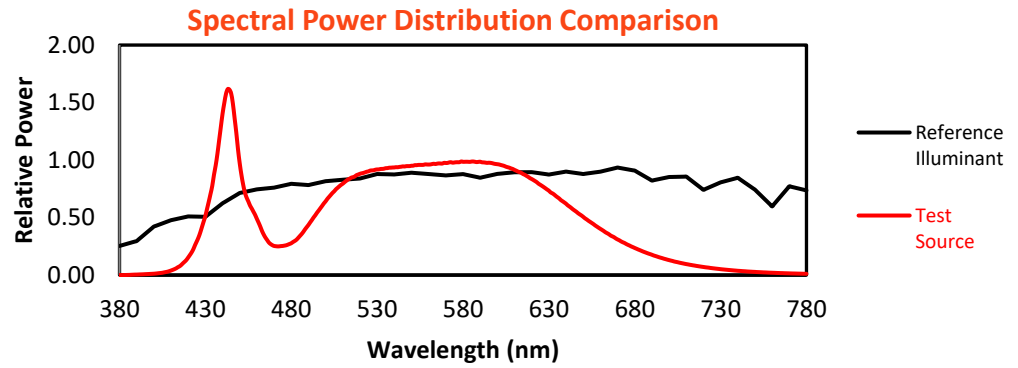
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

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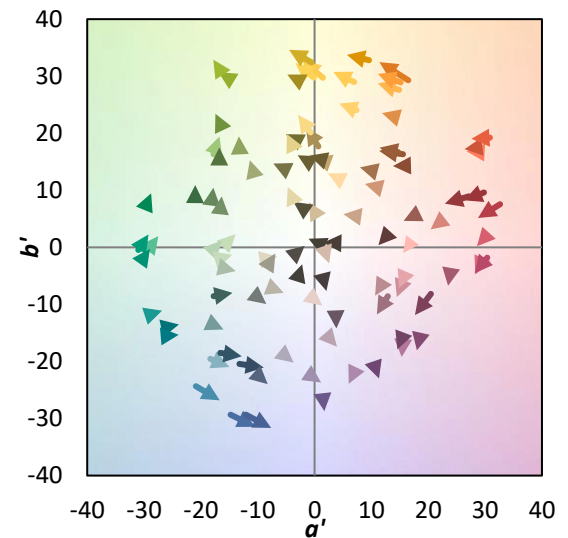
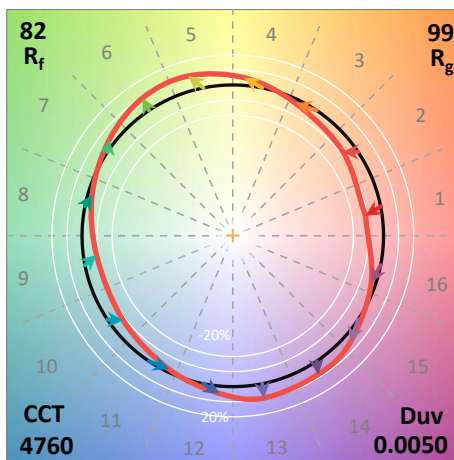
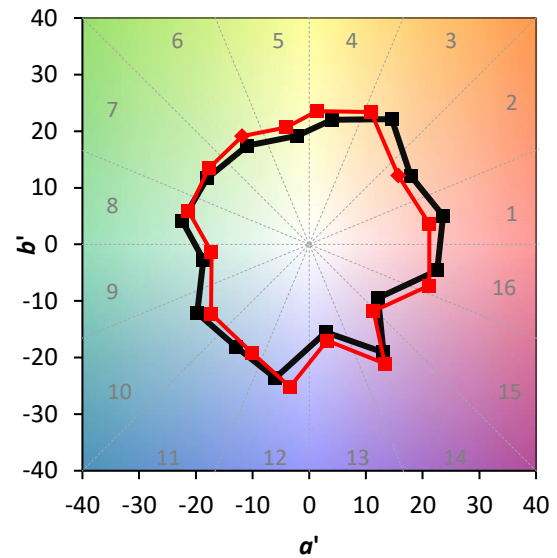
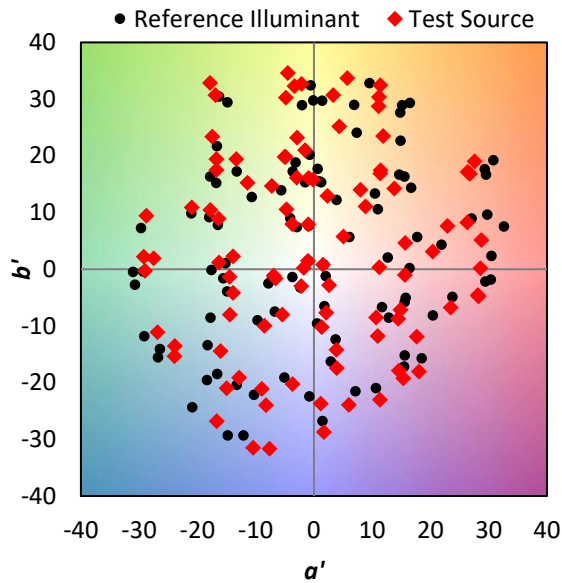
TM-30-18

Summary

$R_f = 82$
 $R_g = 99.4$
 $CIE R_a = 81.1$
 $R_9 = 8.7$

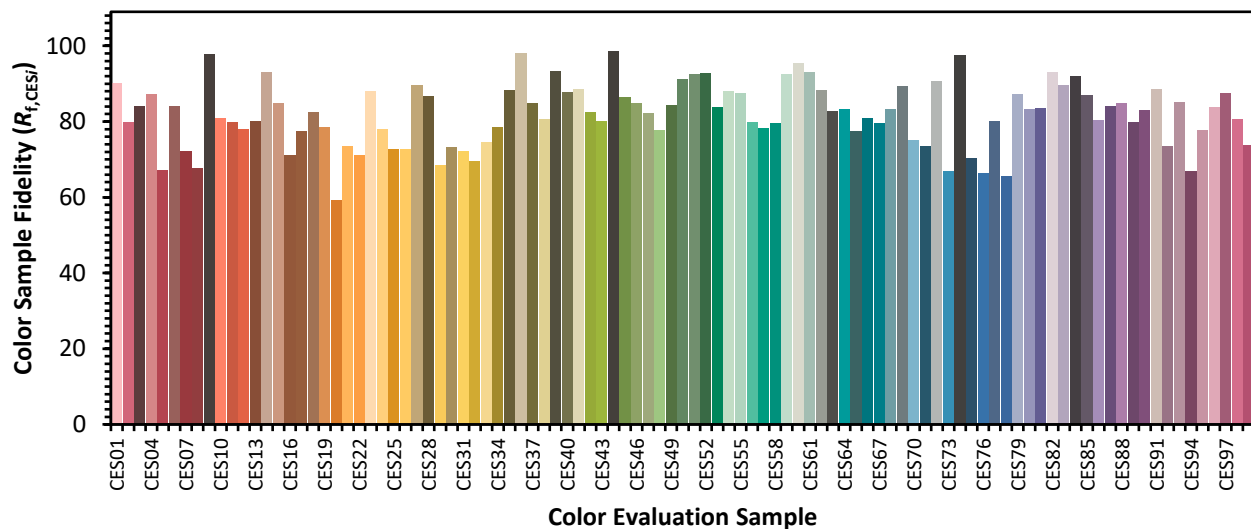


Color Vector Graphics

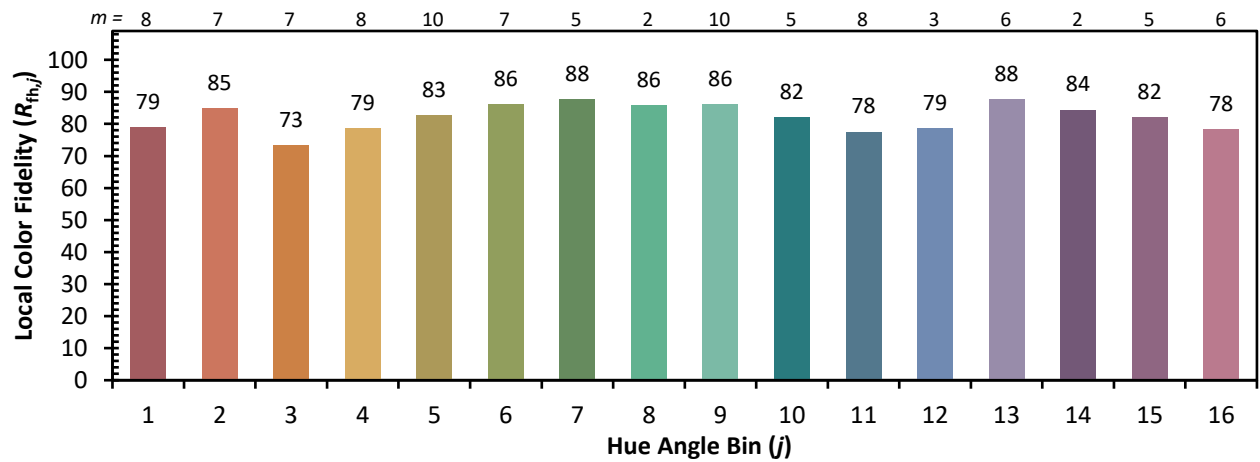
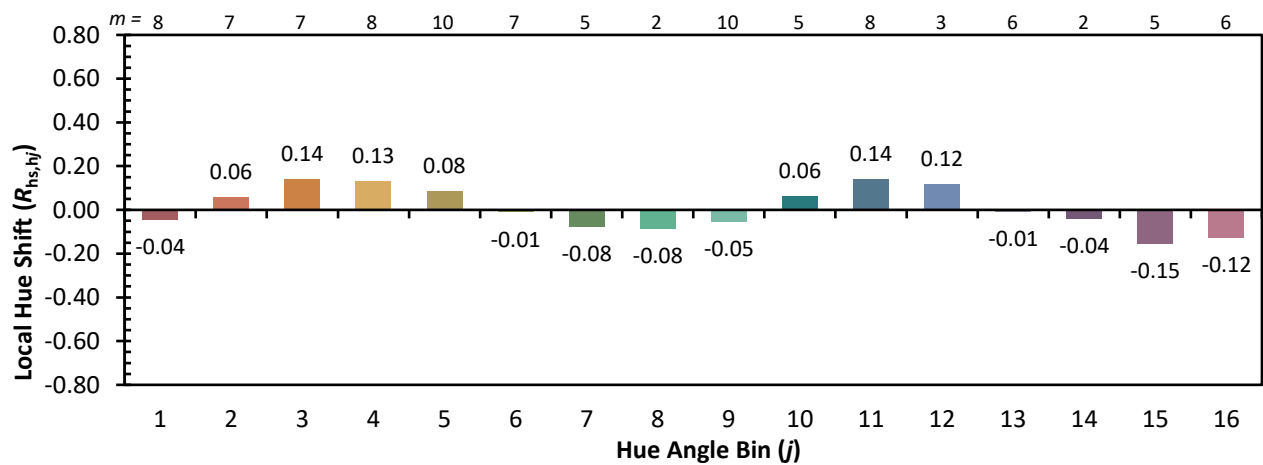
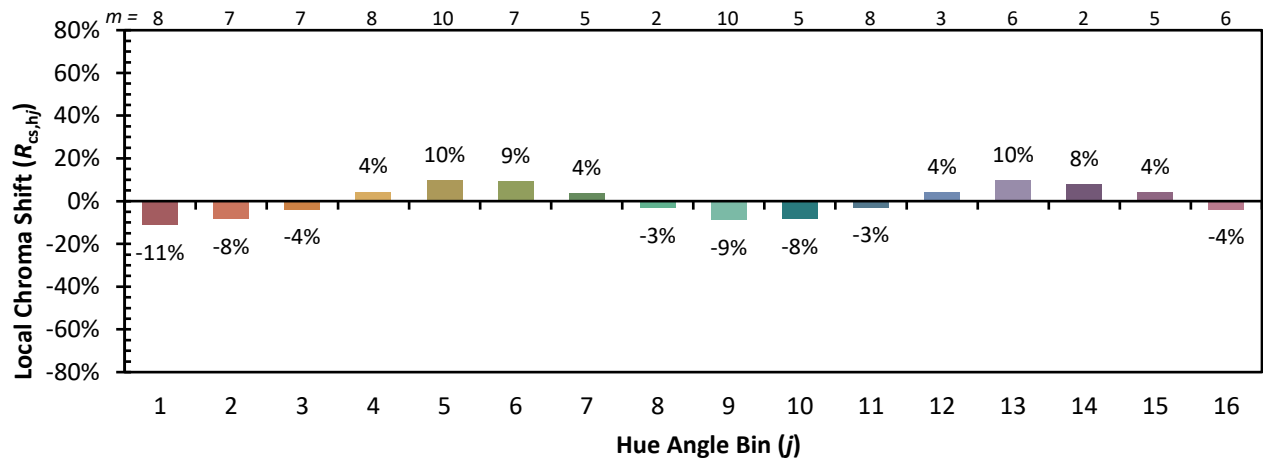


Individual Sample Fidelity Index ($R_{f,i}$)

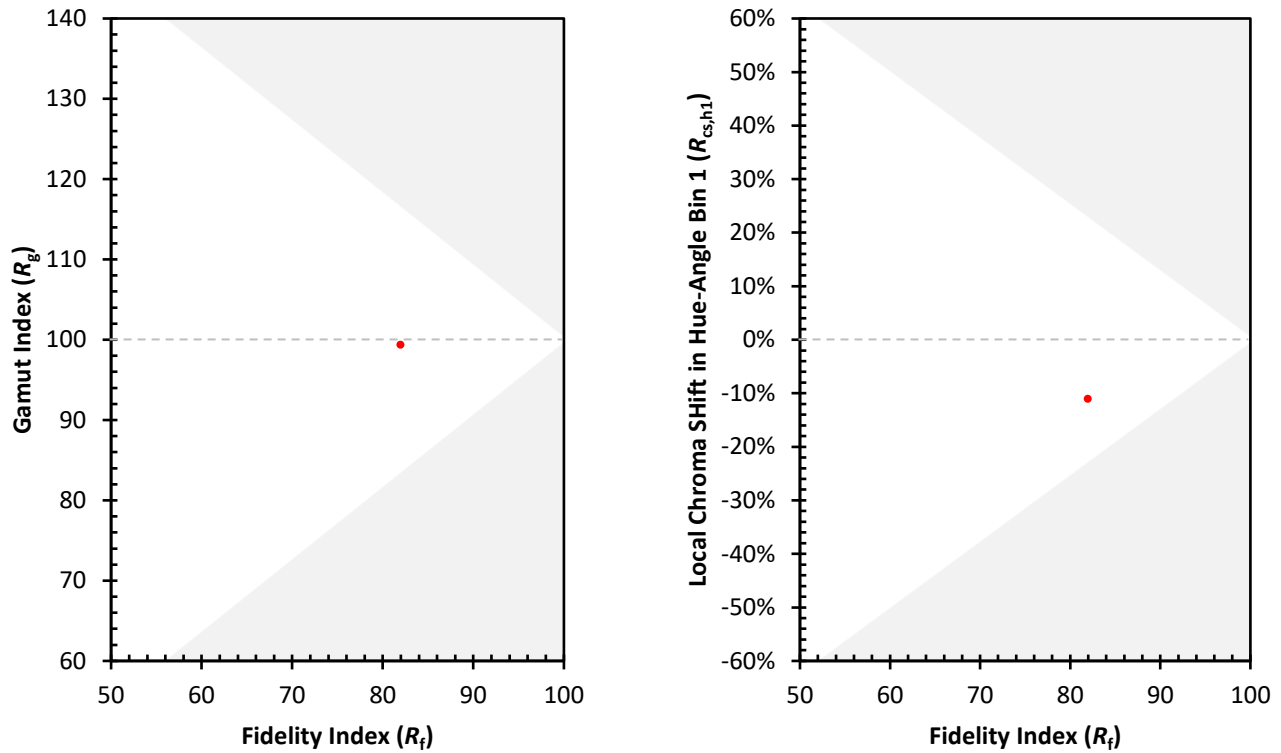
CES01 = 85	CES26 = 73	CES51 = 92	CES76 = 66
CES02 = 60	CES27 = 90	CES52 = 93	CES77 = 80
CES03 = 30	CES28 = 87	CES53 = 84	CES78 = 65
CES04 = 69	CES29 = 69	CES54 = 88	CES79 = 87
CES05 = 47	CES30 = 73	CES55 = 88	CES80 = 83
CES06 = 50	CES31 = 72	CES56 = 80	CES81 = 84
CES07 = 40	CES32 = 69	CES57 = 78	CES82 = 93
CES08 = 39	CES33 = 75	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 78	CES59 = 93	CES84 = 92
CES10 = 73	CES35 = 88	CES60 = 95	CES85 = 87
CES11 = 56	CES36 = 98	CES61 = 93	CES86 = 80
CES12 = 62	CES37 = 85	CES62 = 88	CES87 = 84
CES13 = 42	CES38 = 81	CES63 = 83	CES88 = 85
CES14 = 74	CES39 = 93	CES64 = 83	CES89 = 80
CES15 = 71	CES40 = 88	CES65 = 77	CES90 = 83
CES16 = 46	CES41 = 89	CES66 = 81	CES91 = 89
CES17 = 48	CES42 = 82	CES67 = 80	CES92 = 73
CES18 = 55	CES43 = 80	CES68 = 83	CES93 = 85
CES19 = 70	CES44 = 99	CES69 = 89	CES94 = 67
CES20 = 64	CES45 = 87	CES70 = 75	CES95 = 78
CES21 = 85	CES46 = 85	CES71 = 73	CES96 = 84
CES22 = 77	CES47 = 82	CES72 = 91	CES97 = 87
CES23 = 91	CES48 = 78	CES73 = 67	CES98 = 81
CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 74
CES25 = 71	CES50 = 91	CES75 = 70	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)