

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: P1049847

Luminaire Tested: **GALN-SA7C-840-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049847
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-840-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 7xLight Square PACKAGE
80CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (98) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32131.6 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

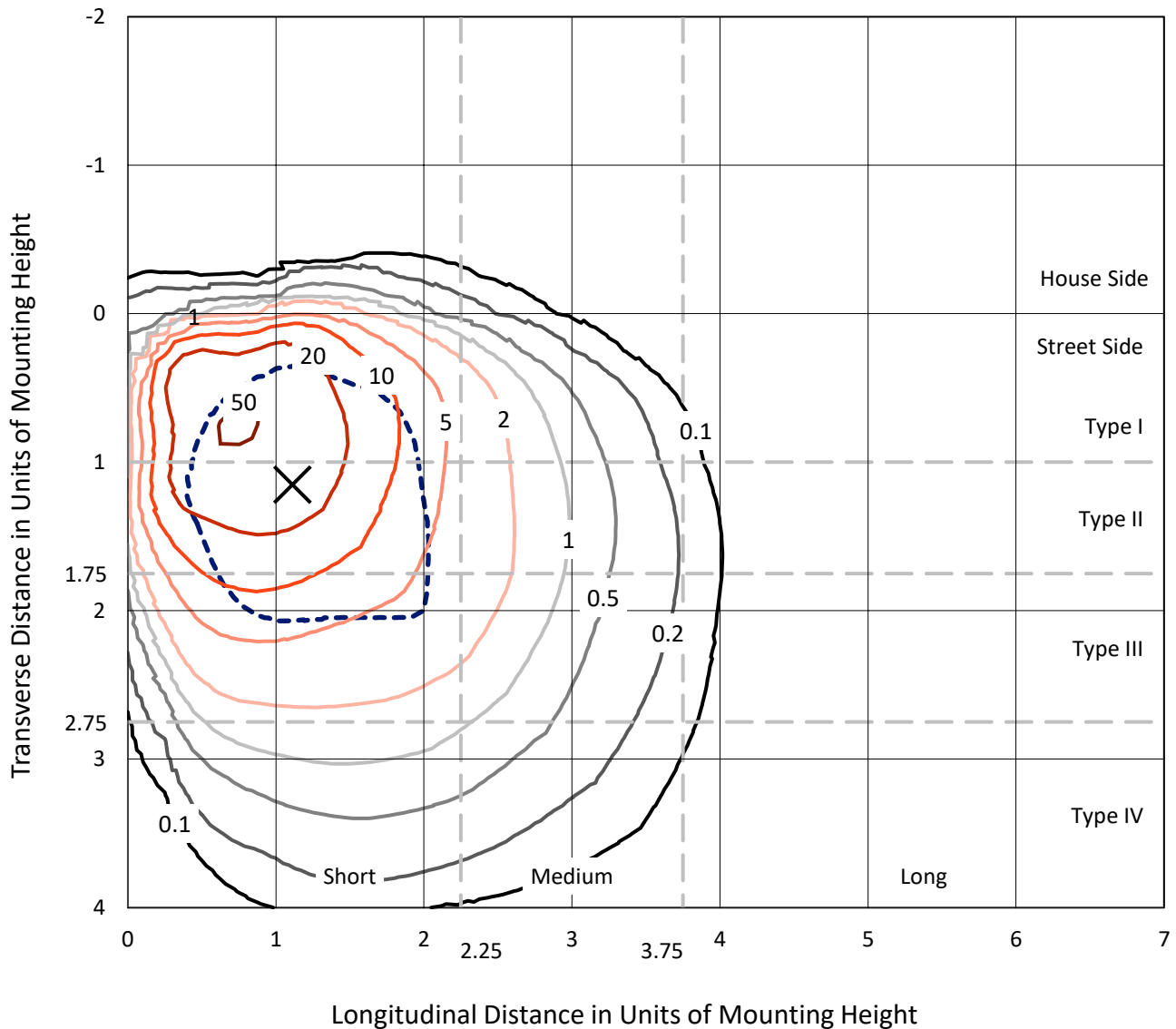
Input Watts (W): 330
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

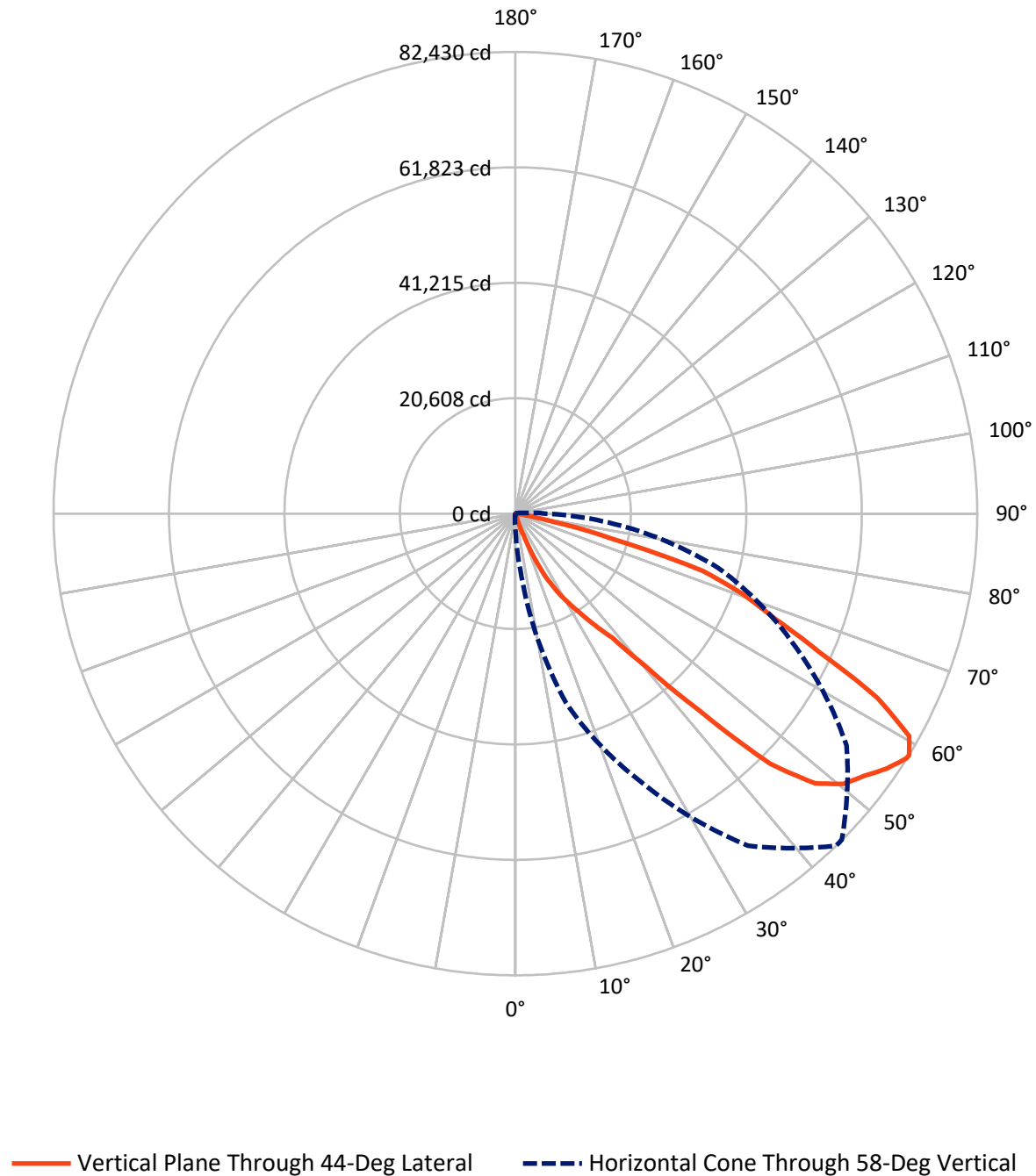
× Max cd
- - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 55.9 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	219.4	0.0	219.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	31912.2	0.0	31912.2
	% Fixture	99.3	0.0	99.3
Total	Lumens	32131.6	0.0	32131.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.6	0.0
10°-20°	70.5	0.2
20°-30°	761.2	2.4
30°-40°	2251.1	7.0
40°-50°	6709.6	20.9
50°-60°	10646.5	33.1
60°-70°	8880.4	27.6
70°-80°	2738.9	8.5
80°-90°	60.8	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°	32131.6	100.0
0°-180°	32131.6	100.0



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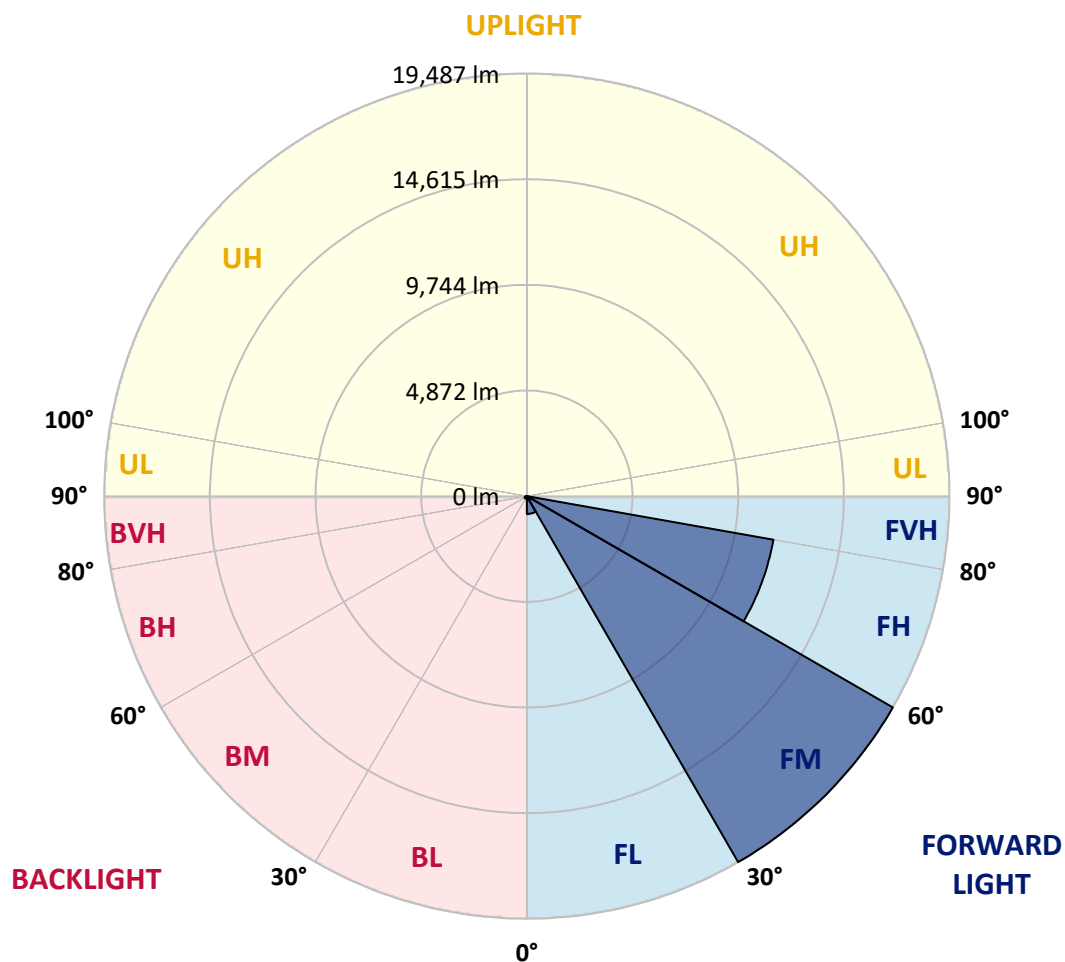
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	822.8	2.6			
FM	(30°-60°)	19487.1	60.6			
FH	(60°-80°)	11544.4	35.9			G4/12000
FVH	(80°-90°)	57.9	0.2			G1/100
BL	(0°-30°)	21.5	0.1	B0/110		
BM	(30°-60°)	120.1	0.4	B0/220		
BH	(60°-80°)	74.9	0.2	B0/110		G0/110
BVH	(80°-90°)	2.9	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8
2.5°	182.0	182.0	174.8	165.1	155.3	145.6	143.2	138.4	135.9	133.5
5°	189.3	189.3	186.9	179.6	169.9	162.6	162.6	155.3	150.5	145.6
7.5°	194.2	196.6	201.5	199.0	194.2	186.9	186.9	182.0	174.8	162.6
10°	201.5	208.7	218.5	223.3	225.7	225.7	223.3	220.9	208.7	191.8
12.5°	208.7	223.3	247.6	271.9	286.4	305.8	303.4	298.6	267.0	230.6
15°	223.3	245.2	296.1	366.5	475.7	543.7	570.4	546.1	441.8	310.7
17.5°	240.3	276.7	429.6	767.0	1257.3	1490.3	1631.1	1517.0	1004.9	589.8
20°	257.3	337.4	798.6	1987.9	3262.3	4024.4	4235.6	3905.5	2507.4	1123.8
22.5°	286.4	473.3	1619.0	4109.4	7029.4	8172.6	8388.6	7332.8	4735.6	2218.5
25°	347.1	686.9	2791.4	6696.8	10490.7	12420.3	12330.5	10947.0	7682.3	3543.8
27.5°	434.5	1000.0	4221.0	9514.9	13806.3	15507.8	15711.7	14000.5	10240.7	5211.4
30°	560.7	1386.0	5755.1	11772.3	16464.2	18304.0	18338.0	16568.5	12529.6	6675.0
32.5°	682.1	1750.1	7097.3	13954.4	19083.2	21100.3	21250.8	19073.5	14238.4	8199.3
35°	774.3	1987.9	8456.6	15871.9	21724.1	24503.3	24493.6	21908.5	16262.7	9561.0
37.5°	781.6	2225.8	9687.2	17833.2	25068.9	28180.6	28488.9	25639.3	18709.4	11245.5
40°	764.6	2492.8	11245.5	20891.5	31095.8	35870.2	36142.1	32549.7	23617.3	14129.1
42.5°	784.0	2956.4	13774.8	26539.8	41103.4	47960.4	48484.7	44707.9	32639.5	20012.8
45°	886.0	3827.8	19073.5	35989.1	55368.5	63728.0	63553.2	58113.7	43137.5	28969.5
47.5°	1223.3	5961.4	26928.1	45186.1	64485.3	71929.7	72080.2	65431.9	49263.9	35855.6
50°	1881.1	9121.7	33527.9	50047.9	68405.3	75874.1	75733.3	68051.0	51591.6	39246.5
52.5°	2446.7	11408.2	36838.7	51754.3	68907.8	77823.2	77813.4	68740.3	51953.3	39537.8
55°	2587.5	11580.5	36865.4	51846.5	70034.0	80374.2	80694.6	70437.0	52421.8	38265.9
57.5°	2531.6	10252.8	35326.5	52380.5	72039.0	82347.6	82364.6	72080.2	53611.1	37486.8
58°	2483.1	10044.0	35015.8	52683.9	72383.6	82430.1	82388.8	72155.5	54579.6	37457.6
60°	2211.2	8721.2	33804.6	53458.2	71871.5	80735.9	80349.9	70512.2	54436.4	37159.1
62.5°	1737.9	6803.6	32612.8	52562.5	66381.0	72534.1	72694.3	62427.0	49625.5	35418.7
65°	1383.5	5070.6	30127.3	46106.0	54662.1	59565.2	60162.3	50763.9	41421.4	29991.4
67.5°	1102.0	3665.2	25272.7	36707.6	43254.0	49712.9	50147.4	42620.4	32090.9	22979.0
70°	895.7	2478.2	17444.8	26845.6	35676.0	42938.4	42965.1	35406.6	23952.3	15056.4
72.5°	793.7	1716.1	10126.6	19578.4	28928.2	34989.1	34282.8	28731.6	18408.4	8917.8
75°	686.9	1138.4	4966.2	11968.9	17539.5	17658.4	17927.8	13328.1	9201.8	4240.4
77.5°	565.6	808.3	1956.4	3269.5	5259.9	6733.2	6983.3	5291.5	3060.8	1043.7
80°	388.4	383.5	526.7	1002.5	1504.9	1886.0	1759.8	1361.7	801.0	400.5
82.5°	167.5	182.0	237.9	286.4	233.0	225.7	216.0	138.4	106.8	82.5
85°	53.4	48.5	51.0	51.0	41.3	31.6	31.6	14.6	0.0	0.0
87.5°	26.7	21.8	21.8	19.4	12.1	4.9	2.4	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°
140.8	0°	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8
131.1	2.5°	128.6	128.6	123.8	118.9	116.5	111.7	109.2	106.8	104.4	101.9
140.8	5°	135.9	133.5	126.2	118.9	111.7	104.4	99.5	94.7	89.8	87.4
155.3	7.5°	148.1	143.2	128.6	116.5	106.8	97.1	92.2	85.0	80.1	72.8
172.3	10°	162.6	152.9	133.5	118.9	104.4	92.2	85.0	77.7	70.4	60.7
196.6	12.5°	182.0	165.1	140.8	116.5	99.5	85.0	77.7	68.0	60.7	53.4
228.2	15°	199.0	177.2	143.2	116.5	94.7	77.7	68.0	58.3	51.0	41.3
286.4	17.5°	223.3	186.9	140.8	109.2	87.4	68.0	58.3	51.0	38.8	24.3
424.8	20°	264.6	194.2	135.9	101.9	75.2	55.8	43.7	34.0	17.0	4.9
638.4	22.5°	330.1	213.6	131.1	92.2	65.5	43.7	29.1	12.1	0.0	0.0
970.9	25°	456.3	247.6	131.1	87.4	58.3	31.6	9.7	0.0	0.0	0.0
1378.7	27.5°	606.8	293.7	131.1	75.2	46.1	17.0	0.0	0.0	0.0	0.0
1878.7	30°	759.7	344.7	131.1	65.5	36.4	2.4	0.0	0.0	0.0	0.0
2313.2	32.5°	905.4	388.4	133.5	55.8	24.3	0.0	0.0	0.0	0.0	0.0
2915.2	35°	1053.4	395.6	131.1	48.5	14.6	0.0	0.0	0.0	0.0	0.0
3653.0	37.5°	1242.8	381.1	123.8	43.7	7.3	0.0	0.0	0.0	0.0	0.0
4806.0	40°	1529.2	388.4	116.5	41.3	2.4	0.0	0.0	0.0	0.0	0.0
6861.9	42.5°	2058.3	419.9	106.8	41.3	0.0	0.0	0.0	0.0	0.0	0.0
10930.0	45°	3558.4	563.1	97.1	43.7	0.0	0.0	0.0	0.0	0.0	0.0
16408.3	47.5°	5886.1	1012.2	94.7	43.7	0.0	0.0	0.0	0.0	0.0	0.0
19765.3	50°	7512.4	1274.3	99.5	46.1	0.0	0.0	0.0	0.0	0.0	0.0
20185.2	52.5°	7500.3	1420.0	104.4	48.5	9.7	0.0	0.0	0.0	0.0	0.0
18605.0	55°	6667.7	1446.7	111.7	53.4	31.6	0.0	0.0	0.0	0.0	0.0
15988.4	57.5°	5573.0	1320.4	128.6	65.5	58.3	0.0	0.0	0.0	0.0	0.0
15578.2	58°	5378.8	1262.2	133.5	68.0	63.1	0.0	0.0	0.0	0.0	0.0
13512.6	60°	4407.9	1029.2	169.9	85.0	85.0	0.0	0.0	0.0	0.0	0.0
11078.1	62.5°	3043.8	898.1	194.2	109.2	87.4	0.0	0.0	0.0	0.0	0.0
8167.8	65°	2153.0	810.7	211.2	116.5	70.4	0.0	0.0	0.0	0.0	0.0
5803.6	67.5°	1609.3	747.6	233.0	118.9	36.4	0.0	0.0	0.0	0.0	0.0
3640.9	70°	1233.1	701.5	286.4	126.2	9.7	0.0	0.0	0.0	0.0	0.0
2170.0	72.5°	1004.9	648.1	347.1	131.1	0.0	0.0	0.0	0.0	0.0	0.0
1301.0	75°	832.6	585.0	335.0	143.2	0.0	0.0	0.0	0.0	0.0	0.0
694.2	77.5°	553.4	453.9	305.8	143.2	0.0	0.0	0.0	0.0	0.0	0.0
247.6	80°	194.2	179.6	237.9	126.2	0.0	0.0	0.0	0.0	0.0	0.0
51.0	82.5°	29.1	24.3	34.0	43.7	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°
140.8	0°	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8
99.5	2.5°	99.5	99.5	97.1	99.5	99.5	104.4	116.5	133.5	152.9	160.2
85.0	5°	82.5	80.1	77.7	77.7	77.7	85.0	94.7	114.1	135.9	145.6
70.4	7.5°	68.0	65.5	63.1	60.7	60.7	65.5	77.7	99.5	121.4	131.1
58.3	10°	55.8	51.0	48.5	46.1	46.1	51.0	63.1	85.0	109.2	118.9
48.5	12.5°	46.1	38.8	34.0	31.6	29.1	36.4	48.5	68.0	94.7	106.8
36.4	15°	31.6	24.3	17.0	14.6	12.1	19.4	31.6	53.4	80.1	94.7
19.4	17.5°	17.0	7.3	2.4	0.0	0.0	4.9	14.6	38.8	65.5	77.7
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.4	48.5	60.7
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	29.1	41.3
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.1	21.8
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9
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	7.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7	19.4
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°
140.8	0°	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8
167.5	2.5°	172.3	169.9	165.1	160.2	160.2	160.2	167.5	174.8	182.0	182.0
150.5	5°	160.2	160.2	157.8	152.9	152.9	155.3	165.1	177.2	186.9	189.3
138.4	7.5°	148.1	152.9	148.1	145.6	148.1	150.5	160.2	174.8	189.3	194.2
128.6	10°	140.8	143.2	143.2	140.8	140.8	145.6	155.3	174.8	194.2	201.5
116.5	12.5°	131.1	135.9	133.5	133.5	133.5	138.4	150.5	172.3	199.0	208.7
104.4	15°	121.4	128.6	128.6	126.2	126.2	128.6	145.6	169.9	206.3	223.3
89.8	17.5°	111.7	118.9	121.4	116.5	116.5	121.4	138.4	169.9	211.2	240.3
72.8	20°	92.2	104.4	111.7	104.4	104.4	109.2	126.2	160.2	213.6	257.3
53.4	22.5°	72.8	85.0	94.7	92.2	92.2	94.7	116.5	152.9	216.0	286.4
31.6	25°	53.4	65.5	72.8	77.7	77.7	85.0	106.8	148.1	225.7	347.1
14.6	27.5°	31.6	46.1	55.8	60.7	63.1	72.8	99.5	143.2	242.7	434.5
0.0	30°	14.6	26.7	38.8	48.5	48.5	65.5	92.2	138.4	264.6	560.7
0.0	32.5°	0.0	12.1	19.4	34.0	36.4	53.4	85.0	133.5	296.1	682.1
0.0	35°	0.0	0.0	9.7	26.7	26.7	43.7	77.7	128.6	344.7	774.3
0.0	37.5°	0.0	0.0	0.0	19.4	21.8	38.8	75.2	126.2	354.4	781.6
0.0	40°	0.0	0.0	0.0	14.6	17.0	36.4	75.2	128.6	320.4	764.6
0.0	42.5°	0.0	0.0	0.0	9.7	12.1	36.4	75.2	133.5	288.8	784.0
0.0	45°	0.0	0.0	0.0	7.3	9.7	38.8	72.8	131.1	271.9	886.0
0.0	47.5°	0.0	0.0	0.0	9.7	14.6	38.8	70.4	128.6	274.3	1223.3
0.0	50°	0.0	0.0	0.0	12.1	17.0	38.8	72.8	123.8	301.0	1881.1
0.0	52.5°	0.0	0.0	0.0	9.7	14.6	43.7	80.1	121.4	327.7	2446.7
0.0	55°	0.0	0.0	0.0	2.4	7.3	55.8	87.4	121.4	368.9	2587.5
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	63.1	99.5	128.6	436.9	2531.6
0.0	58°	0.0	0.0	0.0	0.0	0.0	63.1	101.9	128.6	441.8	2483.1
0.0	60°	0.0	0.0	0.0	0.0	0.0	63.1	111.7	143.2	475.7	2211.2
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	53.4	133.5	179.6	495.2	1737.9
0.0	65°	0.0	0.0	0.0	0.0	0.0	43.7	157.8	196.6	509.7	1383.5
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	41.3	162.6	199.0	517.0	1102.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	43.7	160.2	213.6	541.3	895.7
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	48.5	145.6	235.4	541.3	793.7
0.0	75°	0.0	0.0	0.0	0.0	0.0	51.0	135.9	264.6	492.7	686.9
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	48.5	133.5	308.3	439.3	565.6
0.0	80°	4.9	7.3	7.3	4.9	4.9	41.3	131.1	313.1	373.8	388.4
2.4	82.5°	14.6	19.4	17.0	12.1	12.1	36.4	116.5	262.1	194.2	167.5
14.6	85°	26.7	31.6	31.6	26.7	26.7	34.0	72.8	94.7	65.5	53.4
26.7	87.5°	36.4	41.3	41.3	36.4	36.4	34.0	31.6	29.1	26.7	26.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-11

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-840-U-5WQ

Data in this report applies to families of products including GSS-SB1A-840-U-5WQ

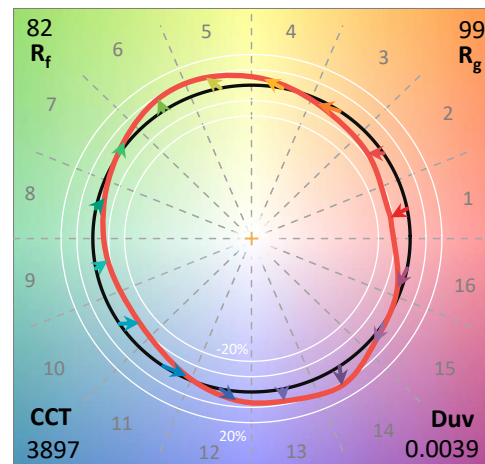
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-11
 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-840-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 4000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3897
 CIE u' : 0.2249
 CIE v' : 0.5084
 Duv: 0.0039
 CIE x: 0.3882
 CIE y: 0.3900
 CIE z: 0.2218
 Peak Wavelength (nm): 445
 Dominant Wavelength (nm): 577
 Purity: 33.54925
 R_f: 81.8
 R_g: 98.6

CRI (Ra): 80.2
 R1: 78.9
 R2: 83.5
 R3: 88.3
 R4: 82.1
 R5: 78.8
 R6: 78.4
 R7: 85.8
 R8: 65.8
 R9: 6.7
 R10: 61.9
 R11: 81.9
 R12: 58.9
 R13: 79.2
 R14: 93.2
 R15: 71.9



Test Conditions

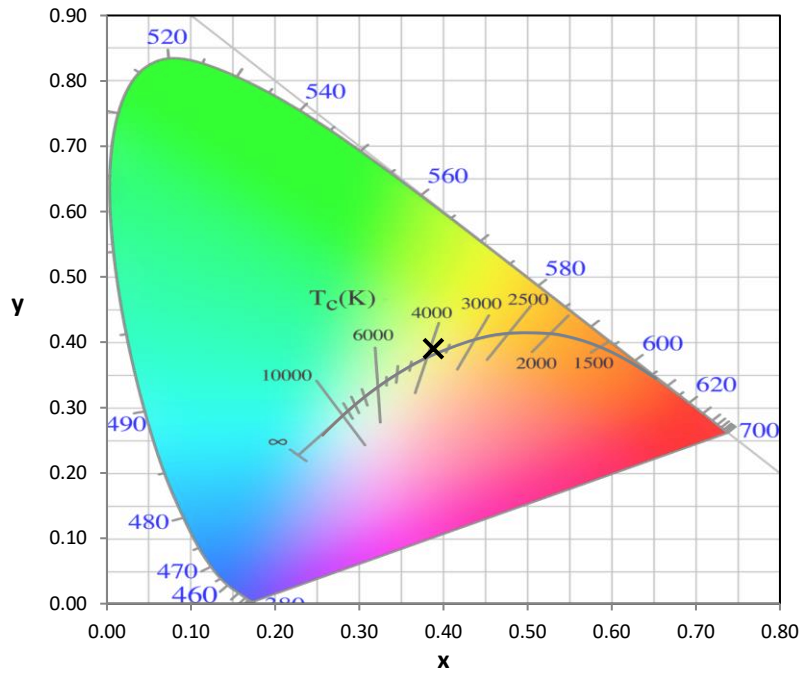
Stabilization Time: 24M
 Operation Time: 1H 24M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-11

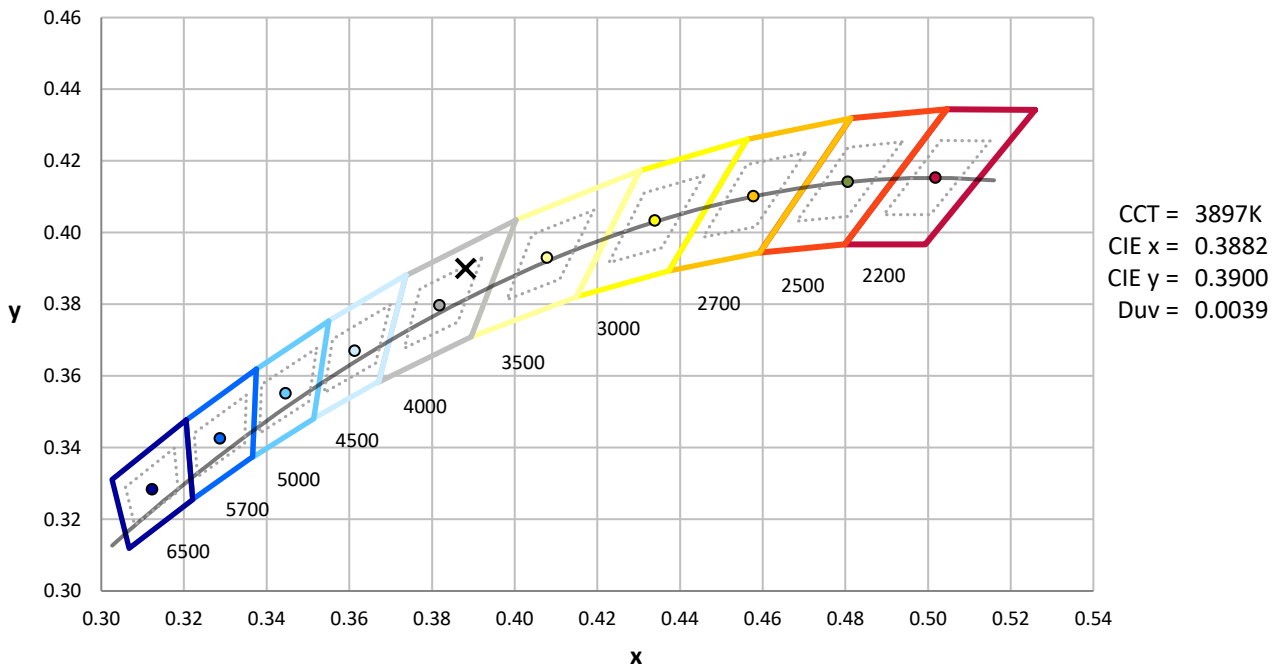
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



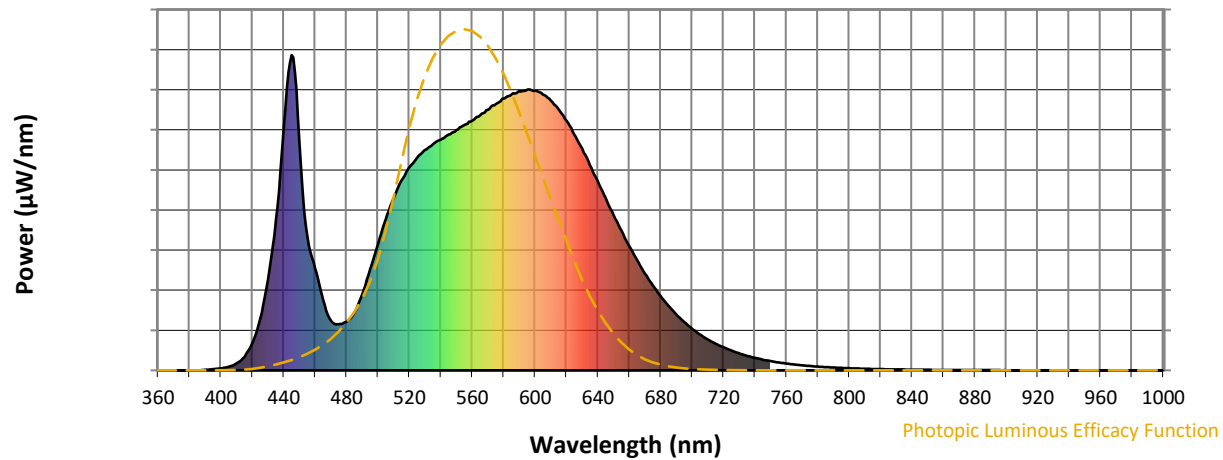
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-11

Photopic Flux vs. Wavelength

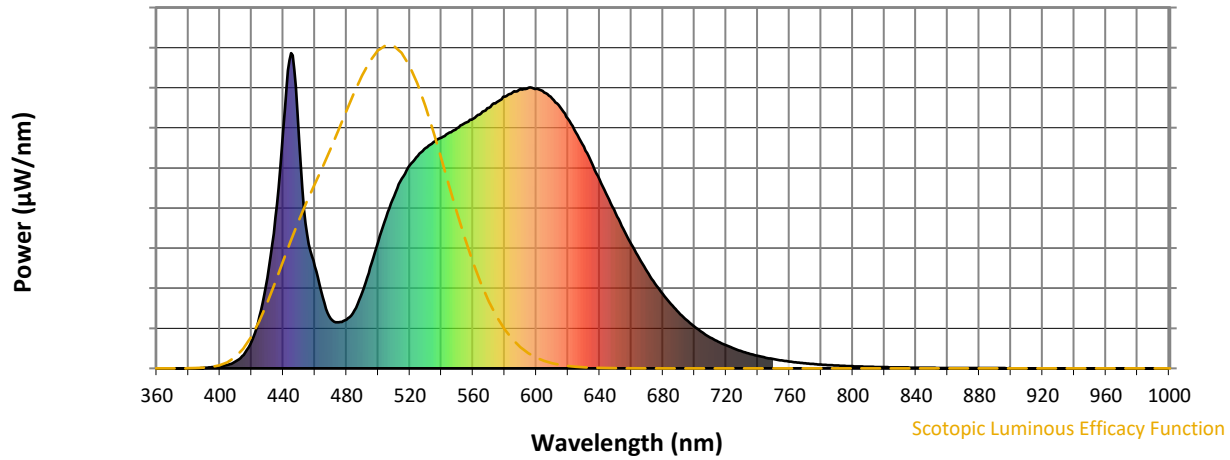


Photopic Lumens: NR

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

Scotopic Flux vs. Wavelength



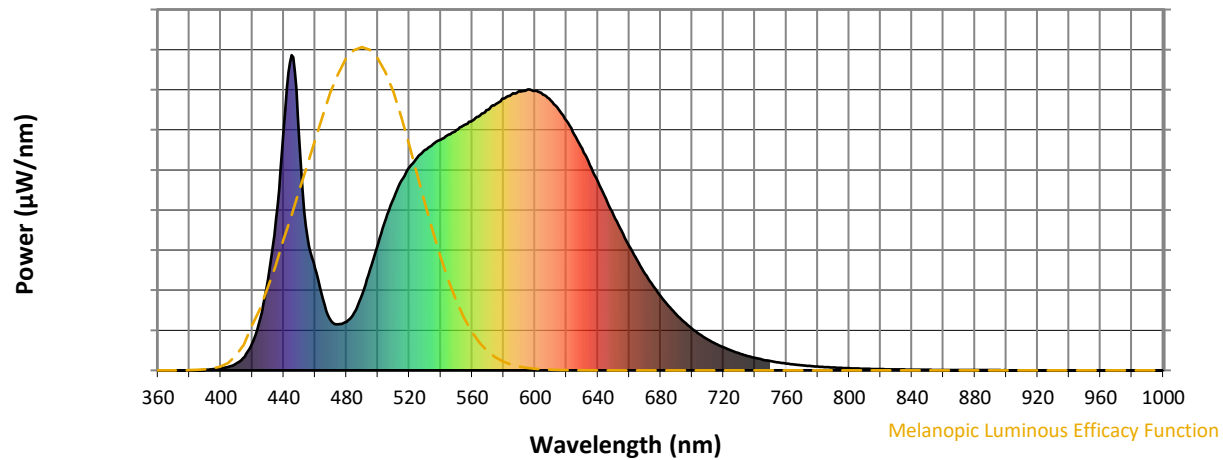
Scotopic Lumens: NR

S/P: 1.57

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.06

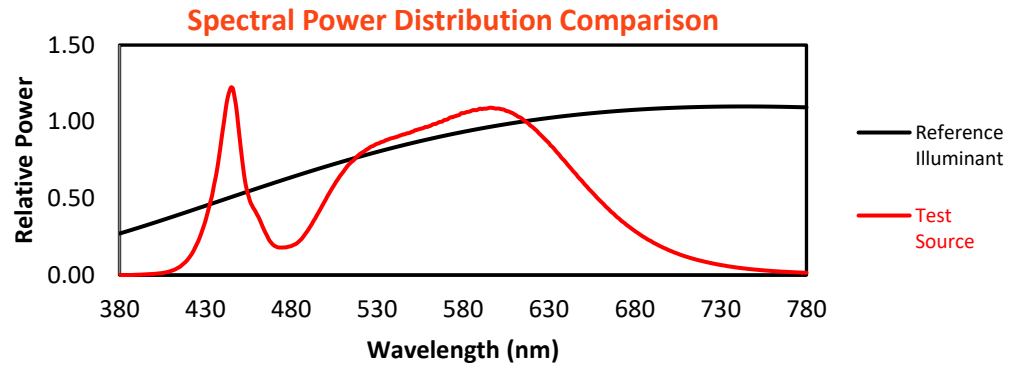
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

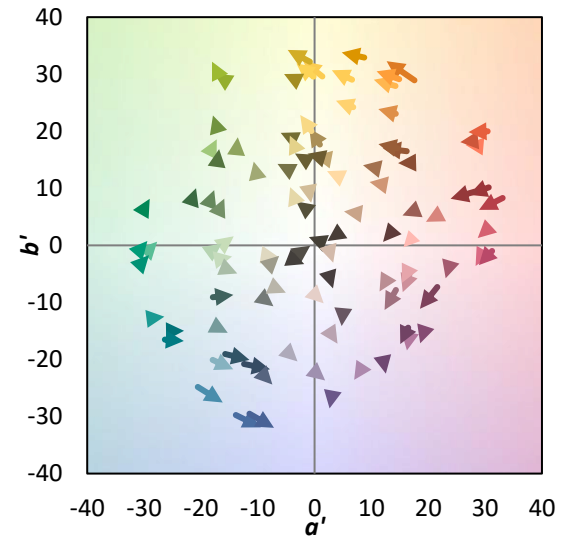
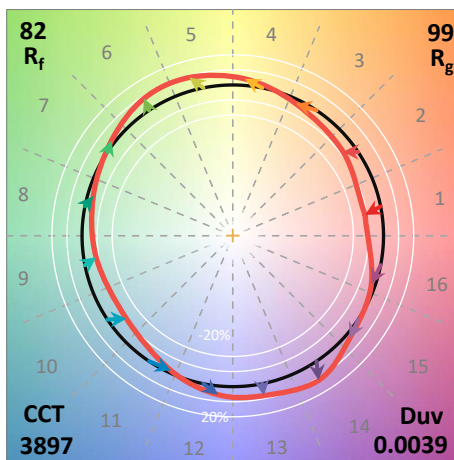
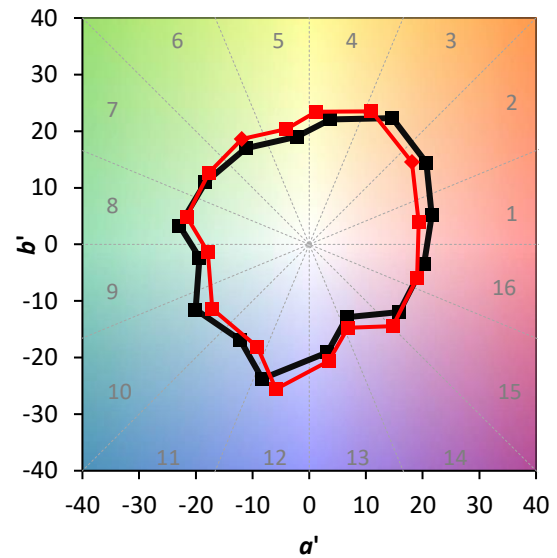
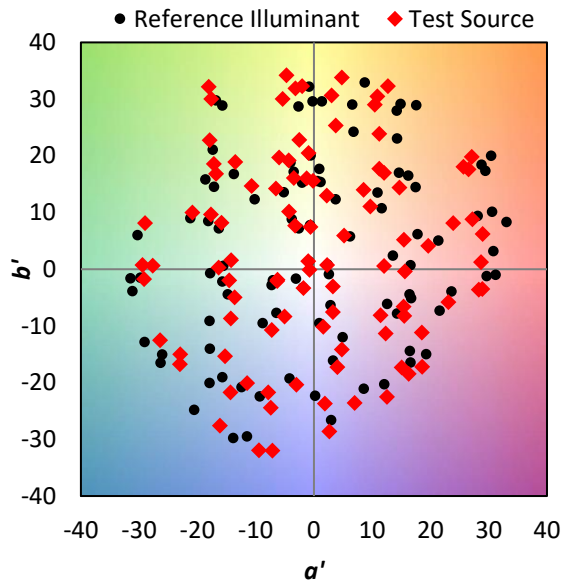
TM-30-18

Summary

$R_f = 81.8$
 $R_g = 98.6$
 $CIE R_a = 80.2$
 $R_9 = 6.7$

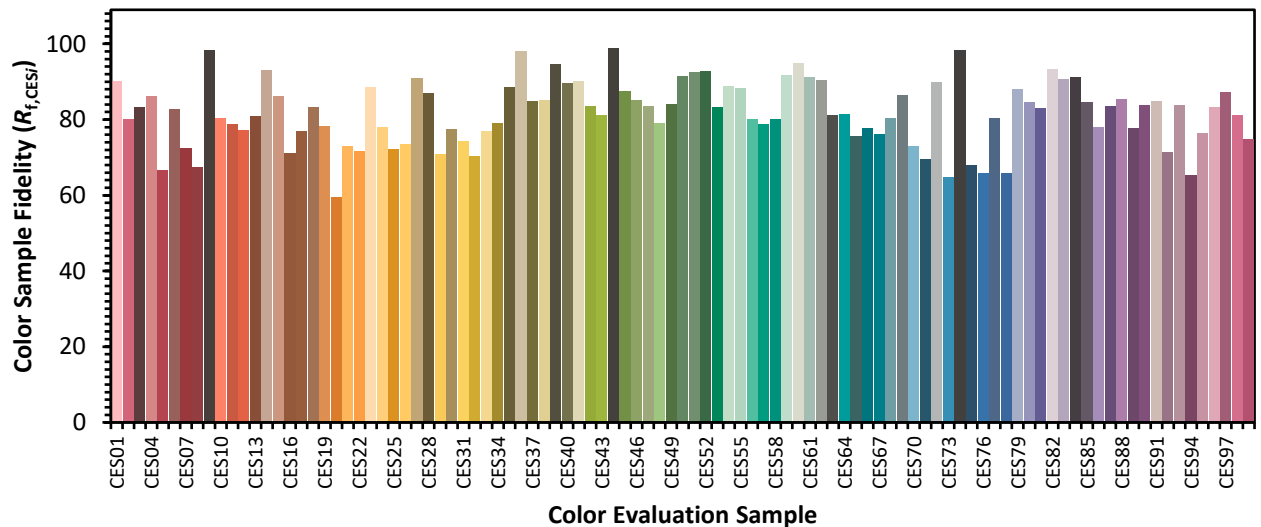


Color Vector Graphics

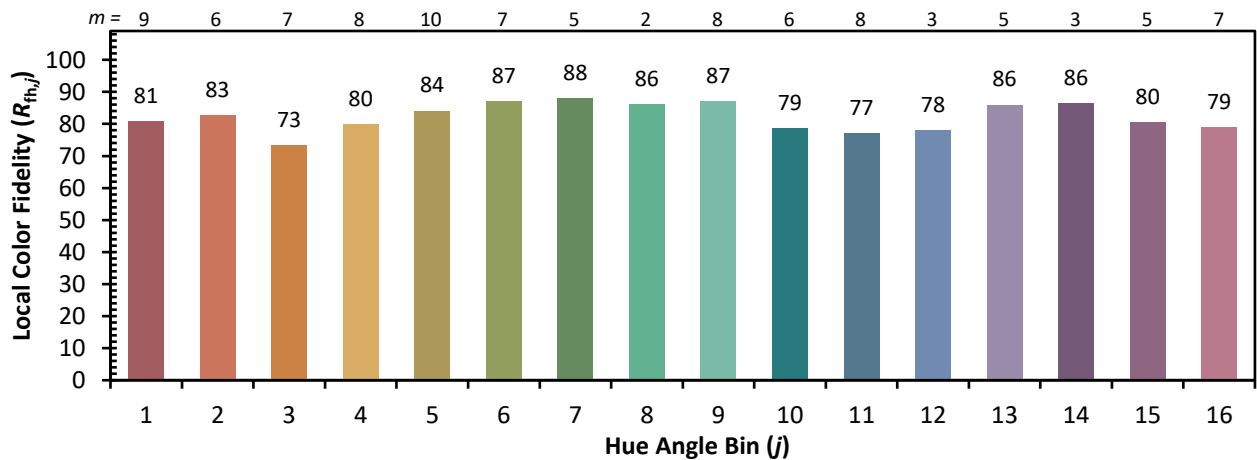
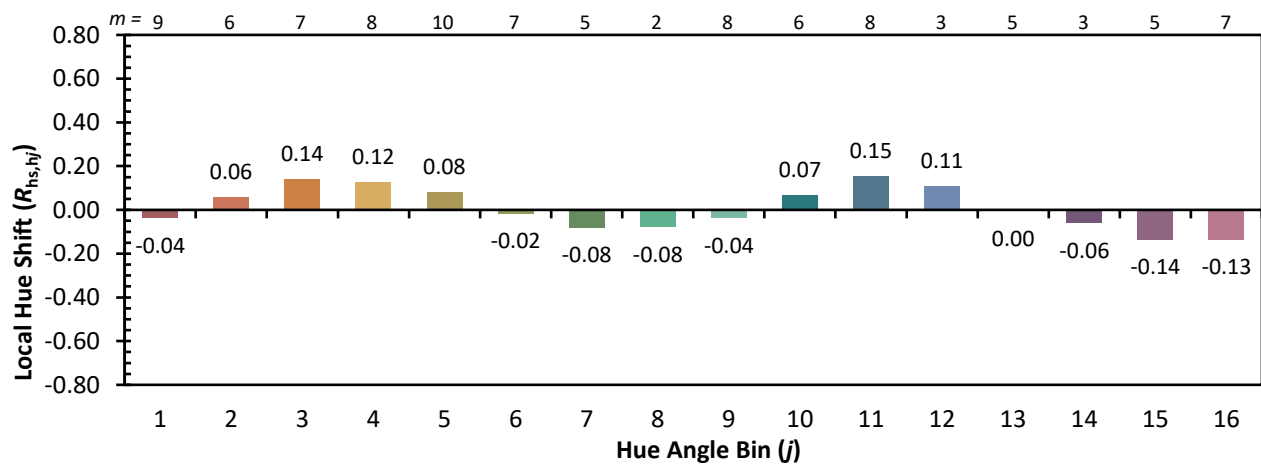
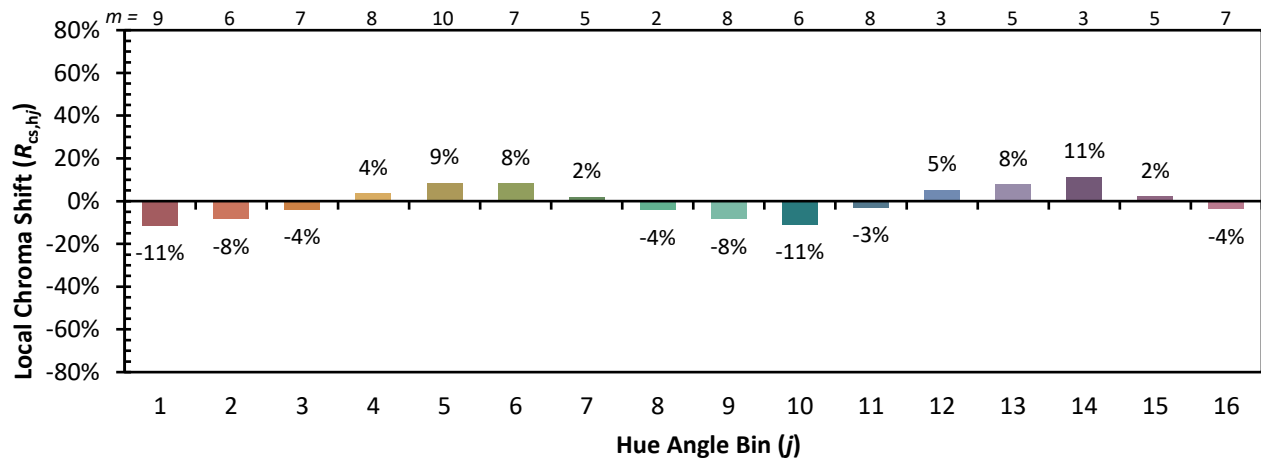


Individual Sample Fidelity Index ($R_{f,i}$)

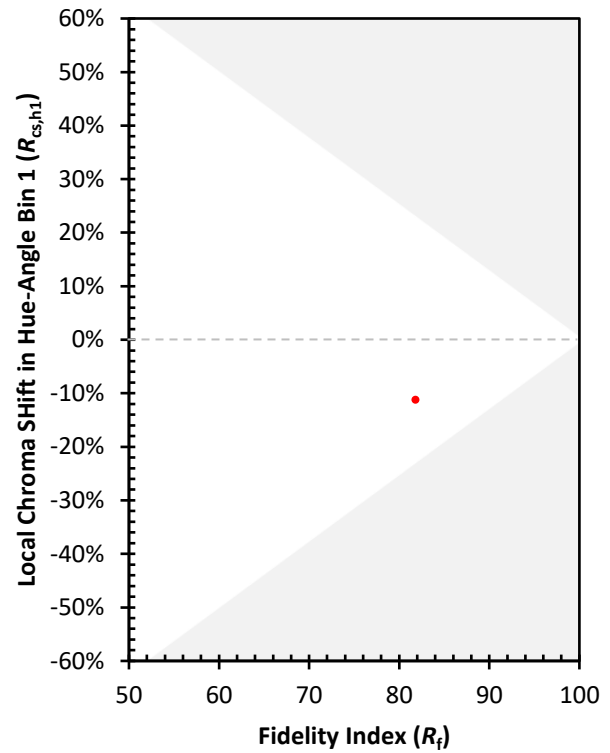
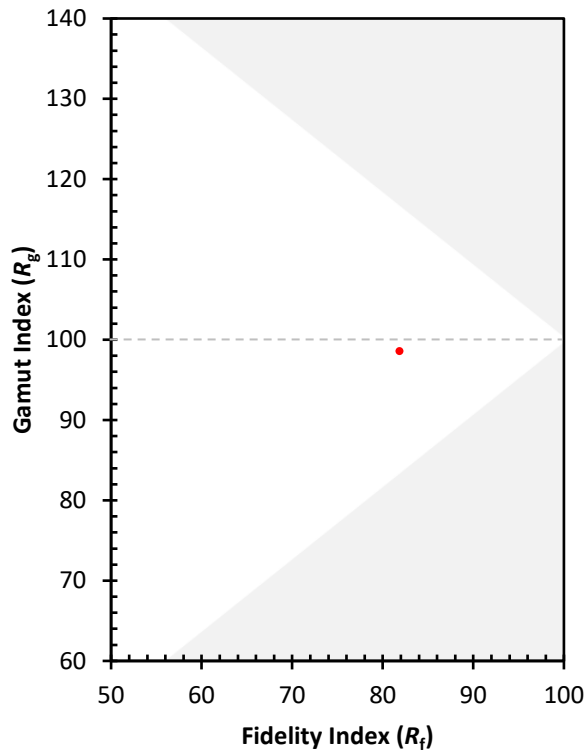
CES01 = 85	CES26 = 73	CES51 = 93	CES76 = 66
CES02 = 61	CES27 = 91	CES52 = 93	CES77 = 80
CES03 = 31	CES28 = 87	CES53 = 83	CES78 = 66
CES04 = 69	CES29 = 71	CES54 = 89	CES79 = 88
CES05 = 48	CES30 = 77	CES55 = 88	CES80 = 85
CES06 = 50	CES31 = 74	CES56 = 80	CES81 = 83
CES07 = 41	CES32 = 70	CES57 = 79	CES82 = 93
CES08 = 40	CES33 = 77	CES58 = 80	CES83 = 91
CES09 = 29	CES34 = 79	CES59 = 92	CES84 = 91
CES10 = 74	CES35 = 88	CES60 = 95	CES85 = 84
CES11 = 57	CES36 = 98	CES61 = 91	CES86 = 78
CES12 = 63	CES37 = 85	CES62 = 90	CES87 = 84
CES13 = 42	CES38 = 85	CES63 = 81	CES88 = 85
CES14 = 74	CES39 = 95	CES64 = 81	CES89 = 78
CES15 = 71	CES40 = 90	CES65 = 76	CES90 = 84
CES16 = 47	CES41 = 90	CES66 = 78	CES91 = 85
CES17 = 49	CES42 = 84	CES67 = 76	CES92 = 71
CES18 = 56	CES43 = 81	CES68 = 80	CES93 = 84
CES19 = 71	CES44 = 99	CES69 = 86	CES94 = 65
CES20 = 65	CES45 = 87	CES70 = 73	CES95 = 77
CES21 = 86	CES46 = 85	CES71 = 70	CES96 = 83
CES22 = 78	CES47 = 84	CES72 = 90	CES97 = 87
CES23 = 91	CES48 = 79	CES73 = 65	CES98 = 81
CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 75
CES25 = 71	CES50 = 91	CES75 = 68	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)