

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: P1050039

Luminaire Tested: **GALN-SA1C-950-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1050039
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-950-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 1xLight Square PACKAGE
90CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4104.3 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 50.2
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

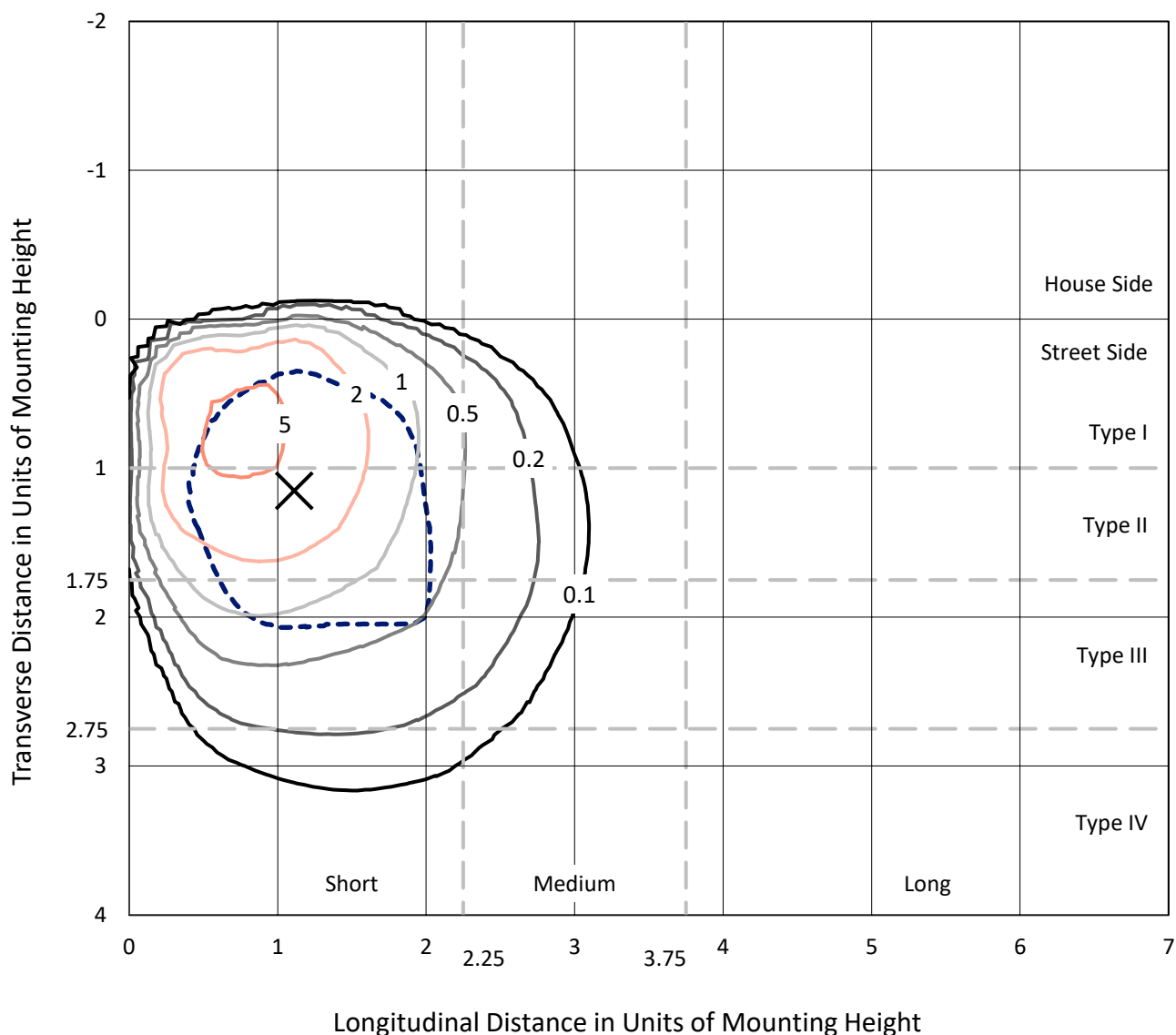
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

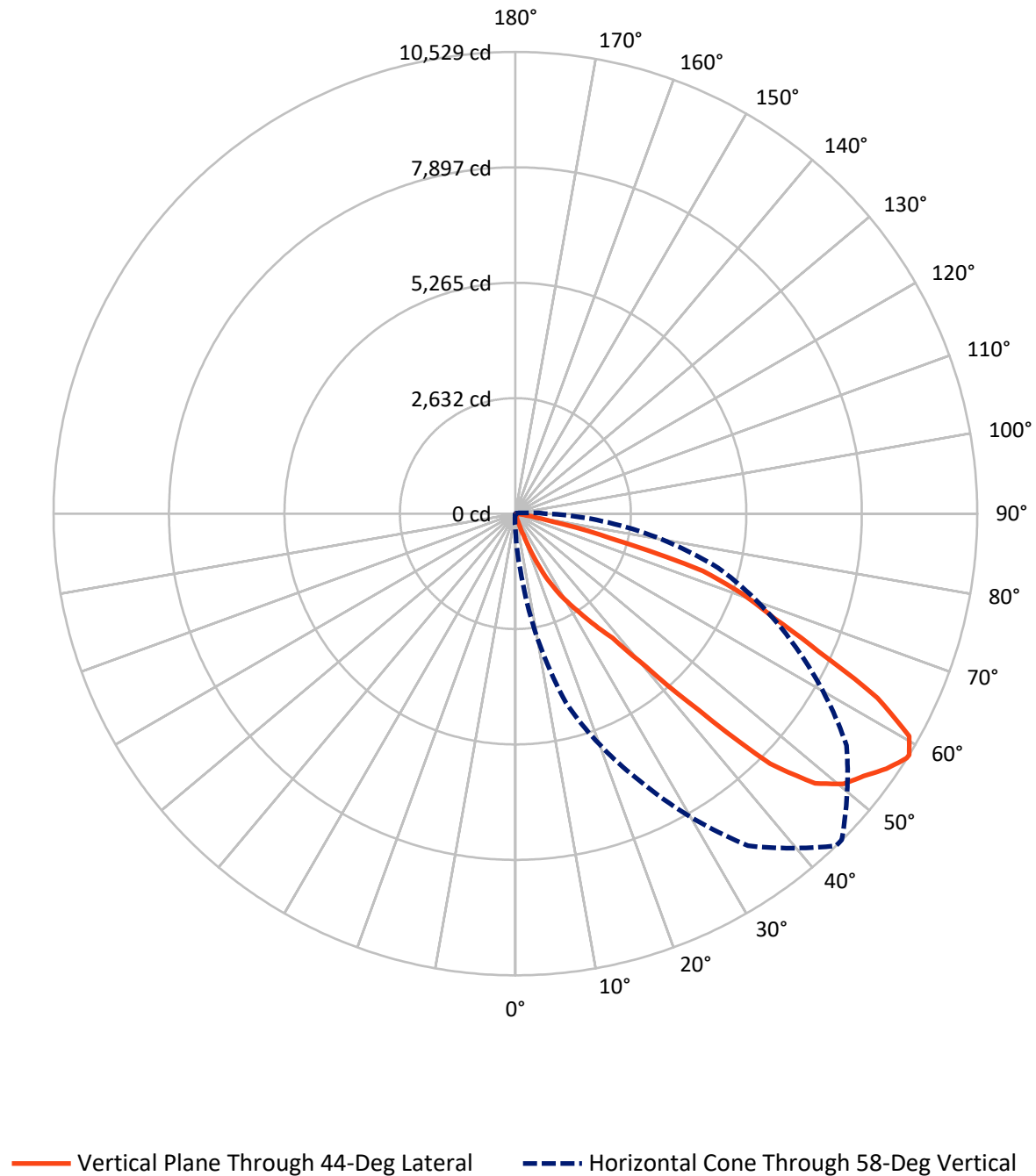


Based on 20 foot mounting height. Maximum calculated value = 7.1 fc

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	28.0	0.0	28.0
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	4076.3	0.0	4076.3
	% Fixture	99.3	0.0	99.3
Total	Lumens	4104.3	0.0	4104.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.0
10°-20°	9.0	0.2
20°-30°	97.2	2.4
30°-40°	287.5	7.0
40°-50°	857.1	20.9
50°-60°	1359.9	33.1
60°-70°	1134.3	27.6
70°-80°	349.8	8.5
80°-90°	7.8	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°	4104.3	100.0
0°-180°	4104.3	100.0



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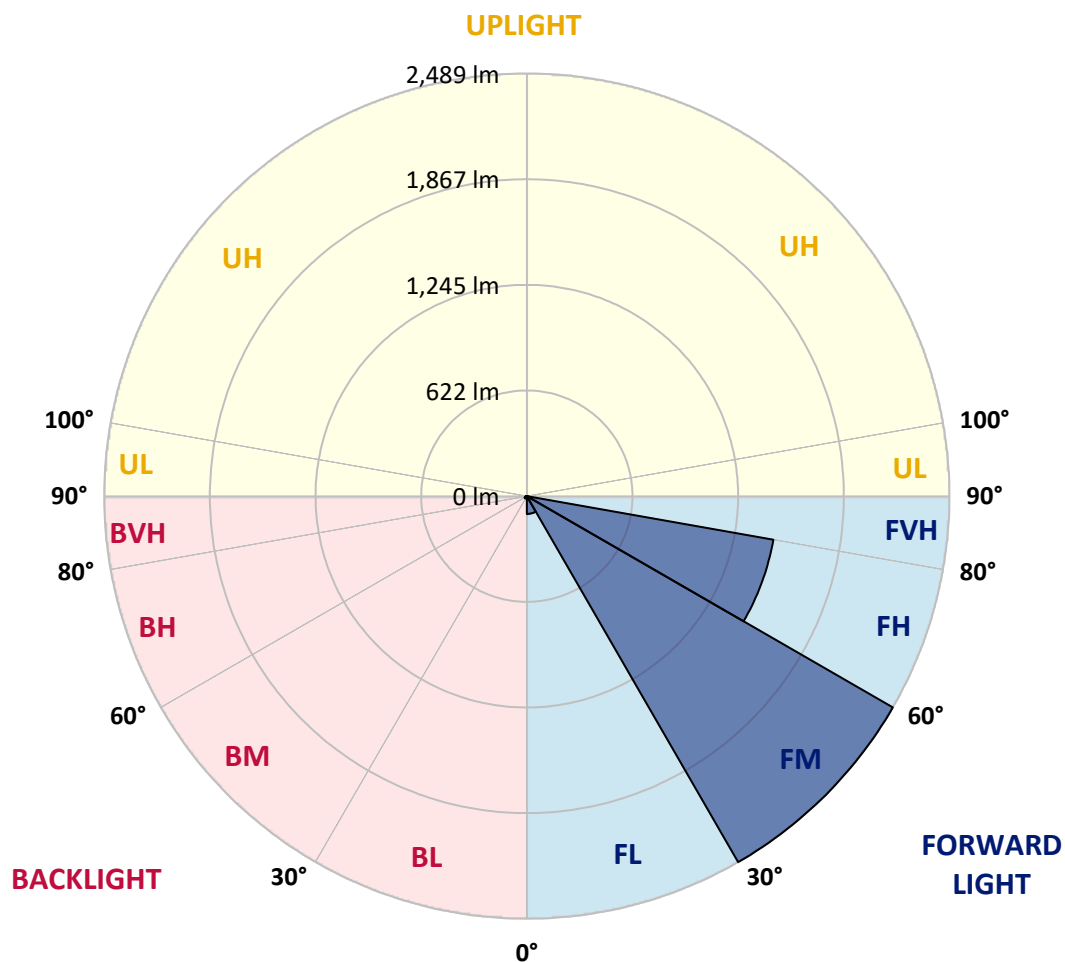
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	105.1	2.6			
FM	(30°-60°)	2489.2	60.6			
FH	(60°-80°)	1474.6	35.9			G1/1800
FVH	(80°-90°)	7.4	0.2			G0/10
BL	(0°-30°)	2.7	0.1	B0/110		
BM	(30°-60°)	15.3	0.4	B0/220		
BH	(60°-80°)	9.6	0.2	B0/110		G0/110
BVH	(80°-90°)	0.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
2.5°	23.3	23.3	22.3	21.1	19.8	18.6	18.3	17.7	17.4	17.1
5°	24.2	24.2	23.9	22.9	21.7	20.8	20.8	19.8	19.2	18.6
7.5°	24.8	25.1	25.7	25.4	24.8	23.9	23.9	23.3	22.3	20.8
10°	25.7	26.7	27.9	28.5	28.8	28.8	28.5	28.2	26.7	24.5
12.5°	26.7	28.5	31.6	34.7	36.6	39.1	38.8	38.1	34.1	29.5
15°	28.5	31.3	37.8	46.8	60.8	69.5	72.9	69.8	56.4	39.7
17.5°	30.7	35.3	54.9	98.0	160.6	190.4	208.4	193.8	128.4	75.3
20°	32.9	43.1	102.0	253.9	416.7	514.1	541.0	498.9	320.3	143.6
22.5°	36.6	60.5	206.8	524.9	897.9	1043.9	1071.5	936.7	604.9	283.4
25°	44.3	87.7	356.6	855.4	1340.0	1586.5	1575.0	1398.3	981.3	452.7
27.5°	55.5	127.7	539.2	1215.4	1763.6	1980.9	2006.9	1788.4	1308.1	665.7
30°	71.6	177.0	735.1	1503.7	2103.1	2338.1	2342.4	2116.4	1600.5	852.6
32.5°	87.1	223.5	906.6	1782.5	2437.6	2695.2	2714.5	2436.4	1818.7	1047.3
35°	98.9	253.9	1080.2	2027.4	2774.9	3129.9	3128.7	2798.5	2077.3	1221.3
37.5°	99.8	284.3	1237.4	2277.9	3202.2	3599.7	3639.0	3275.0	2389.8	1436.5
40°	97.7	318.4	1436.5	2668.6	3972.0	4581.9	4616.6	4157.7	3016.8	1804.8
42.5°	100.1	377.6	1759.5	3390.1	5250.4	6126.2	6193.2	5710.8	4169.2	2556.3
45°	113.2	488.9	2436.4	4597.1	7072.5	8140.3	8118.0	7423.2	5510.2	3700.4
47.5°	156.3	761.5	3439.7	5771.9	8237.0	9188.0	9207.2	8358.0	6292.7	4580.0
50°	240.3	1165.2	4282.7	6392.9	8737.8	9691.8	9673.8	8692.5	6590.1	5013.2
52.5°	312.5	1457.2	4705.6	6610.8	8802.0	9940.8	9939.5	8780.6	6636.3	5050.4
55°	330.5	1479.2	4709.0	6622.6	8945.8	10266.6	10307.5	8997.3	6696.1	4887.9
57.5°	323.4	1309.6	4512.4	6690.8	9201.9	10518.7	10520.9	9207.2	6848.0	4788.4
58°	317.2	1283.0	4472.8	6729.6	9245.9	10529.2	10524.0	9216.8	6971.7	4784.7
60°	282.5	1114.0	4318.0	6828.5	9180.5	10312.8	10263.5	9006.9	6953.4	4746.5
62.5°	222.0	869.1	4165.8	6714.1	8479.2	9265.2	9285.6	7974.1	6338.9	4524.2
65°	176.7	647.7	3848.3	5889.4	6982.3	7608.6	7684.8	6484.3	5291.0	3831.0
67.5°	140.8	468.2	3228.2	4688.9	5525.1	6350.1	6405.6	5444.1	4099.1	2935.2
70°	114.4	316.6	2228.3	3429.1	4557.1	5484.7	5488.2	4522.7	3059.6	1923.2
72.5°	101.4	219.2	1293.5	2500.8	3695.2	4469.3	4379.1	3670.0	2351.4	1139.1
75°	87.7	145.4	634.4	1528.8	2240.4	2255.6	2290.0	1702.5	1175.4	541.7
77.5°	72.2	103.2	249.9	417.6	671.9	860.1	892.0	675.9	391.0	133.3
80°	49.6	49.0	67.3	128.0	192.2	240.9	224.8	173.9	102.3	51.2
82.5°	21.4	23.3	30.4	36.6	29.8	28.8	27.6	17.7	13.6	10.5
85°	6.8	6.2	6.5	6.5	5.3	4.0	4.0	1.9	0.0	0.0
87.5°	3.4	2.8	2.8	2.5	1.6	0.6	0.3	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
18.0	0°	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
16.7	2.5°	16.4	16.4	15.8	15.2	14.9	14.3	14.0	13.6	13.3	13.0
18.0	5°	17.4	17.1	16.1	15.2	14.3	13.3	12.7	12.1	11.5	11.2
19.8	7.5°	18.9	18.3	16.4	14.9	13.6	12.4	11.8	10.9	10.2	9.3
22.0	10°	20.8	19.5	17.1	15.2	13.3	11.8	10.9	9.9	9.0	7.8
25.1	12.5°	23.3	21.1	18.0	14.9	12.7	10.9	9.9	8.7	7.8	6.8
29.1	15°	25.4	22.6	18.3	14.9	12.1	9.9	8.7	7.4	6.5	5.3
36.6	17.5°	28.5	23.9	18.0	14.0	11.2	8.7	7.4	6.5	5.0	3.1
54.3	20°	33.8	24.8	17.4	13.0	9.6	7.1	5.6	4.3	2.2	0.6
81.5	22.5°	42.2	27.3	16.7	11.8	8.4	5.6	3.7	1.6	0.0	0.0
124.0	25°	58.3	31.6	16.7	11.2	7.4	4.0	1.2	0.0	0.0	0.0
176.1	27.5°	77.5	37.5	16.7	9.6	5.9	2.2	0.0	0.0	0.0	0.0
240.0	30°	97.0	44.0	16.7	8.4	4.7	0.3	0.0	0.0	0.0	0.0
295.5	32.5°	115.6	49.6	17.1	7.1	3.1	0.0	0.0	0.0	0.0	0.0
372.4	35°	134.6	50.5	16.7	6.2	1.9	0.0	0.0	0.0	0.0	0.0
466.6	37.5°	158.7	48.7	15.8	5.6	0.9	0.0	0.0	0.0	0.0	0.0
613.9	40°	195.3	49.6	14.9	5.3	0.3	0.0	0.0	0.0	0.0	0.0
876.5	42.5°	262.9	53.6	13.6	5.3	0.0	0.0	0.0	0.0	0.0	0.0
1396.1	45°	454.5	71.9	12.4	5.6	0.0	0.0	0.0	0.0	0.0	0.0
2095.9	47.5°	751.9	129.3	12.1	5.6	0.0	0.0	0.0	0.0	0.0	0.0
2524.7	50°	959.6	162.8	12.7	5.9	0.0	0.0	0.0	0.0	0.0	0.0
2578.4	52.5°	958.0	181.4	13.3	6.2	1.2	0.0	0.0	0.0	0.0	0.0
2376.5	55°	851.7	184.8	14.3	6.8	4.0	0.0	0.0	0.0	0.0	0.0
2042.3	57.5°	711.9	168.7	16.4	8.4	7.4	0.0	0.0	0.0	0.0	0.0
1989.9	58°	687.1	161.2	17.1	8.7	8.1	0.0	0.0	0.0	0.0	0.0
1726.0	60°	563.0	131.5	21.7	10.9	10.9	0.0	0.0	0.0	0.0	0.0
1415.1	62.5°	388.8	114.7	24.8	14.0	11.2	0.0	0.0	0.0	0.0	0.0
1043.3	65°	275.0	103.6	27.0	14.9	9.0	0.0	0.0	0.0	0.0	0.0
741.3	67.5°	205.6	95.5	29.8	15.2	4.7	0.0	0.0	0.0	0.0	0.0
465.1	70°	157.5	89.6	36.6	16.1	1.2	0.0	0.0	0.0	0.0	0.0
277.2	72.5°	128.4	82.8	44.3	16.7	0.0	0.0	0.0	0.0	0.0	0.0
166.2	75°	106.3	74.7	42.8	18.3	0.0	0.0	0.0	0.0	0.0	0.0
88.7	77.5°	70.7	58.0	39.1	18.3	0.0	0.0	0.0	0.0	0.0	0.0
31.6	80°	24.8	22.9	30.4	16.1	0.0	0.0	0.0	0.0	0.0	0.0
6.5	82.5°	3.7	3.1	4.3	5.6	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°
18.0	0°	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
12.7	2.5°	12.7	12.7	12.4	12.7	12.7	13.3	14.9	17.1	19.5	20.5
10.9	5°	10.5	10.2	9.9	9.9	9.9	10.9	12.1	14.6	17.4	18.6
9.0	7.5°	8.7	8.4	8.1	7.8	7.8	8.4	9.9	12.7	15.5	16.7
7.4	10°	7.1	6.5	6.2	5.9	5.9	6.5	8.1	10.9	14.0	15.2
6.2	12.5°	5.9	5.0	4.3	4.0	3.7	4.7	6.2	8.7	12.1	13.6
4.7	15°	4.0	3.1	2.2	1.9	1.6	2.5	4.0	6.8	10.2	12.1
2.5	17.5°	2.2	0.9	0.3	0.0	0.0	0.6	1.9	5.0	8.4	9.9
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	6.2	7.8
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.7	5.3
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	2.8
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
0.0	30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.5
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°
18.0	0°	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
21.4	2.5°	22.0	21.7	21.1	20.5	20.5	20.5	21.4	22.3	23.3	23.3
19.2	5°	20.5	20.5	20.2	19.5	19.5	19.8	21.1	22.6	23.9	24.2
17.7	7.5°	18.9	19.5	18.9	18.6	18.9	19.2	20.5	22.3	24.2	24.8
16.4	10°	18.0	18.3	18.3	18.0	18.0	18.6	19.8	22.3	24.8	25.7
14.9	12.5°	16.7	17.4	17.1	17.1	17.1	17.7	19.2	22.0	25.4	26.7
13.3	15°	15.5	16.4	16.4	16.1	16.1	16.4	18.6	21.7	26.4	28.5
11.5	17.5°	14.3	15.2	15.5	14.9	14.9	15.5	17.7	21.7	27.0	30.7
9.3	20°	11.8	13.3	14.3	13.3	13.3	14.0	16.1	20.5	27.3	32.9
6.8	22.5°	9.3	10.9	12.1	11.8	11.8	12.1	14.9	19.5	27.6	36.6
4.0	25°	6.8	8.4	9.3	9.9	9.9	10.9	13.6	18.9	28.8	44.3
1.9	27.5°	4.0	5.9	7.1	7.8	8.1	9.3	12.7	18.3	31.0	55.5
0.0	30°	1.9	3.4	5.0	6.2	6.2	8.4	11.8	17.7	33.8	71.6
0.0	32.5°	0.0	1.6	2.5	4.3	4.7	6.8	10.9	17.1	37.8	87.1
0.0	35°	0.0	0.0	1.2	3.4	3.4	5.6	9.9	16.4	44.0	98.9
0.0	37.5°	0.0	0.0	0.0	2.5	2.8	5.0	9.6	16.1	45.3	99.8
0.0	40°	0.0	0.0	0.0	1.9	2.2	4.7	9.6	16.4	40.9	97.7
0.0	42.5°	0.0	0.0	0.0	1.2	1.6	4.7	9.6	17.1	36.9	100.1
0.0	45°	0.0	0.0	0.0	0.9	1.2	5.0	9.3	16.7	34.7	113.2
0.0	47.5°	0.0	0.0	0.0	1.2	1.9	5.0	9.0	16.4	35.0	156.3
0.0	50°	0.0	0.0	0.0	1.6	2.2	5.0	9.3	15.8	38.4	240.3
0.0	52.5°	0.0	0.0	0.0	1.2	1.9	5.6	10.2	15.5	41.9	312.5
0.0	55°	0.0	0.0	0.0	0.3	0.9	7.1	11.2	15.5	47.1	330.5
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	8.1	12.7	16.4	55.8	323.4
0.0	58°	0.0	0.0	0.0	0.0	0.0	8.1	13.0	16.4	56.4	317.2
0.0	60°	0.0	0.0	0.0	0.0	0.0	8.1	14.3	18.3	60.8	282.5
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	6.8	17.1	22.9	63.2	222.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	5.6	20.2	25.1	65.1	176.7
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	5.3	20.8	25.4	66.0	140.8
0.0	70°	0.0	0.0	0.0	0.0	0.0	5.6	20.5	27.3	69.1	114.4
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	6.2	18.6	30.1	69.1	101.4
0.0	75°	0.0	0.0	0.0	0.0	0.0	6.5	17.4	33.8	62.9	87.7
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	6.2	17.1	39.4	56.1	72.2
0.0	80°	0.6	0.9	0.9	0.6	0.6	5.3	16.7	40.0	47.7	49.6
0.3	82.5°	1.9	2.5	2.2	1.6	1.6	4.7	14.9	33.5	24.8	21.4
1.9	85°	3.4	4.0	4.0	3.4	3.4	4.3	9.3	12.1	8.4	6.8
3.4	87.5°	4.7	5.3	5.3	4.7	4.7	4.3	4.0	3.7	3.4	3.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI



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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-17

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-950-U-5WQ

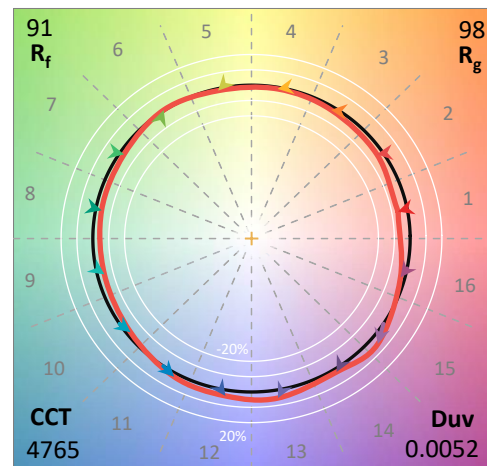
Data in this report applies to families of products including GSS-SB1A-950-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-17
 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-950-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K):	4765	CRI (Ra):	90.8		
CIE u':	0.2105	R1:	89.8	R9:	54.9
CIE v':	0.4941	R2:	93.1	R10:	83.0
Duv:	0.0052	R3:	95.3	R11:	89.6
CIE x:	0.3536	R4:	90.3	R12:	68.0
CIE y:	0.3689	R5:	89.0	R13:	90.6
CIE z:	0.2775	R6:	89.7	R14:	97.3
Peak Wavelength (nm):	449	R7:	94.9	R15:	86.2
Dominant Wavelength (nm):	571	R8:	84.0		
Purity:	16.80041				
Rf:	90.7				
Rg:	98				



Test Conditions

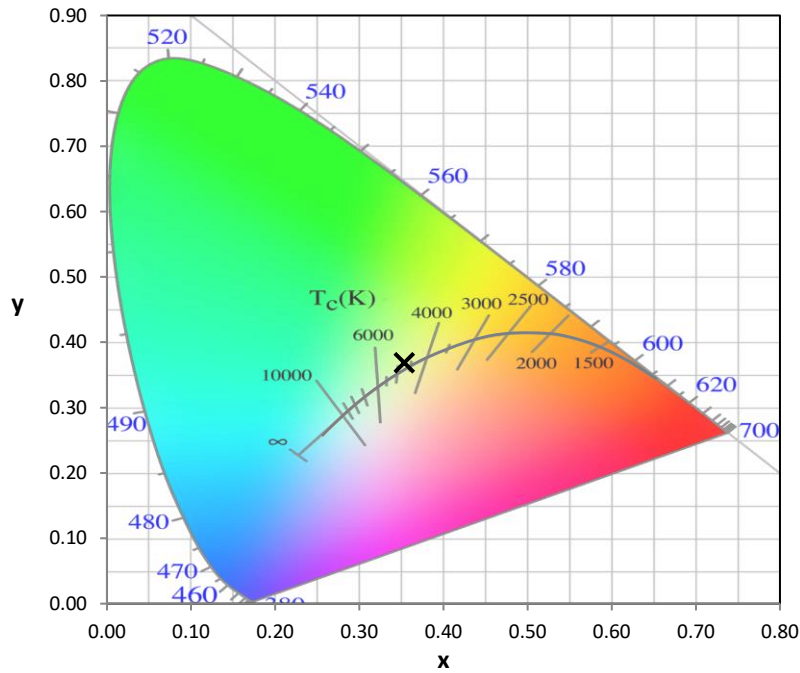
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-17

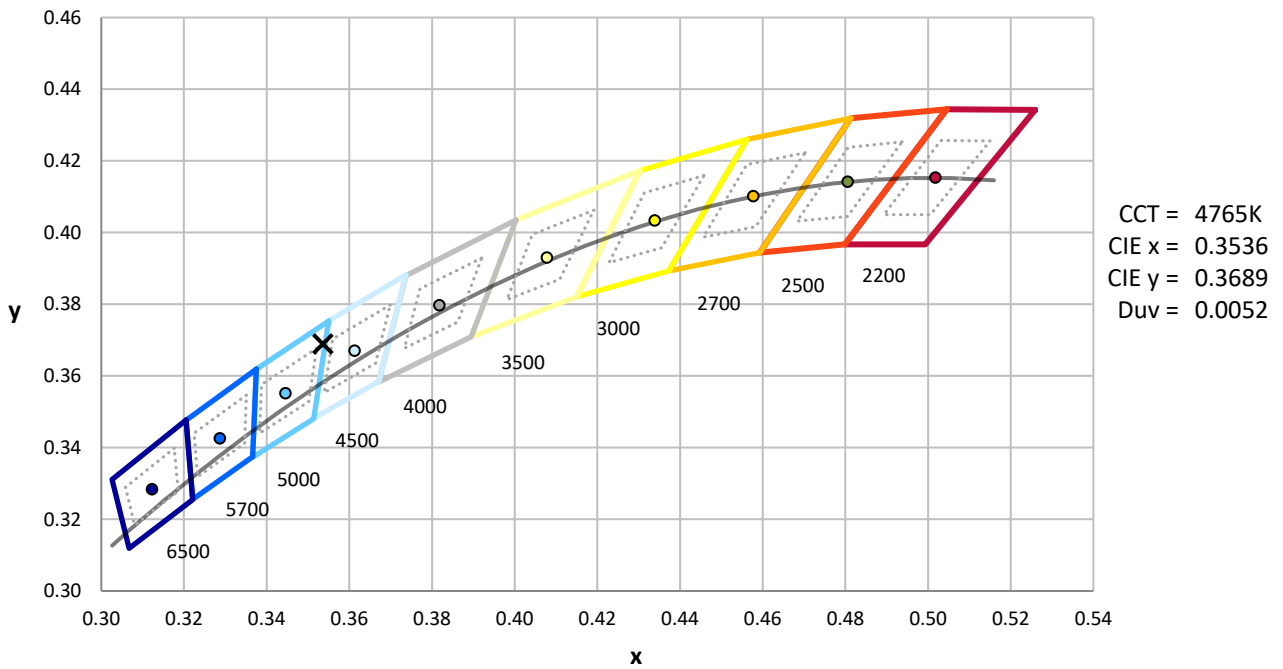
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-17

CIE 1931 Chromaticity Diagram



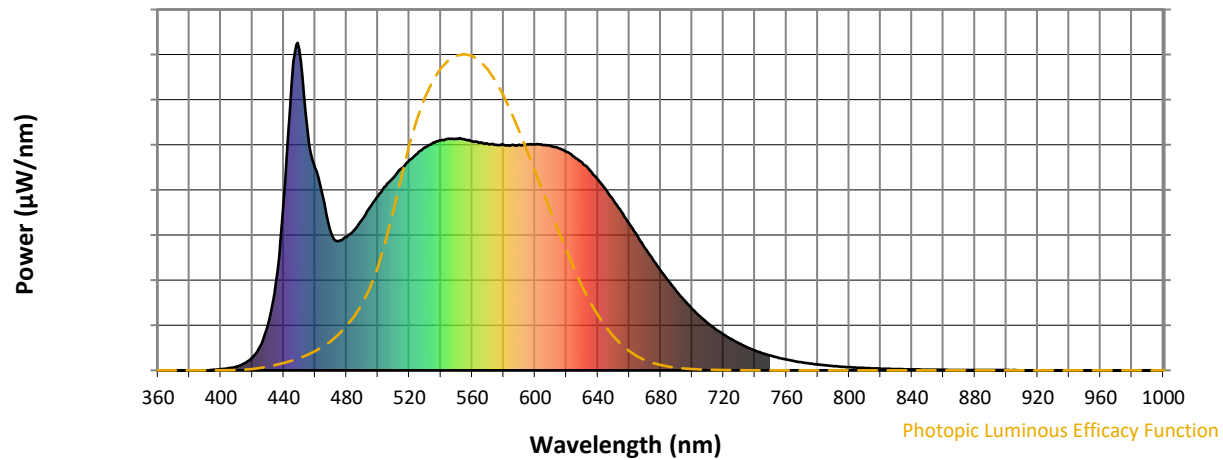
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-17

Photopic Flux vs. Wavelength

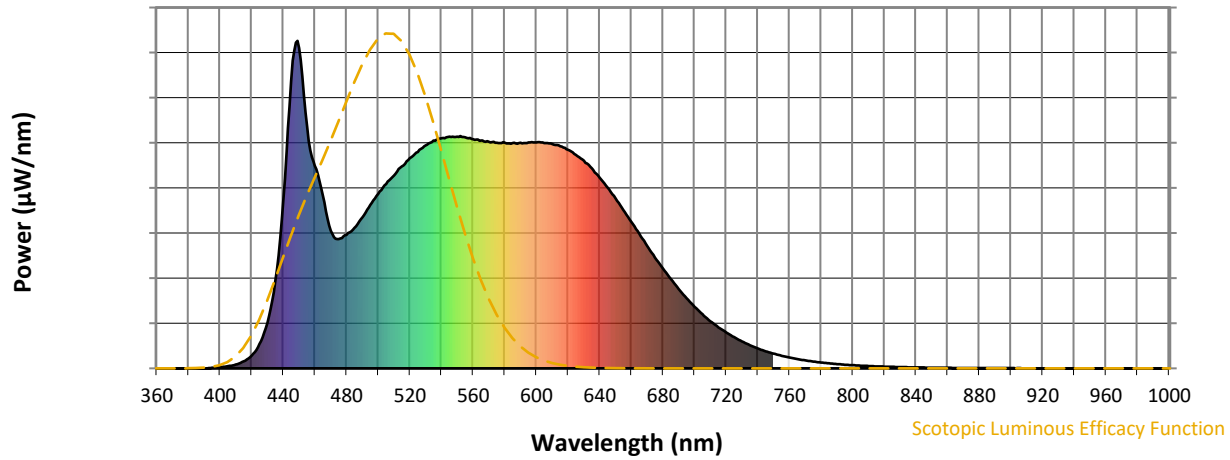


Photopic Lumens: NR

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	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-17

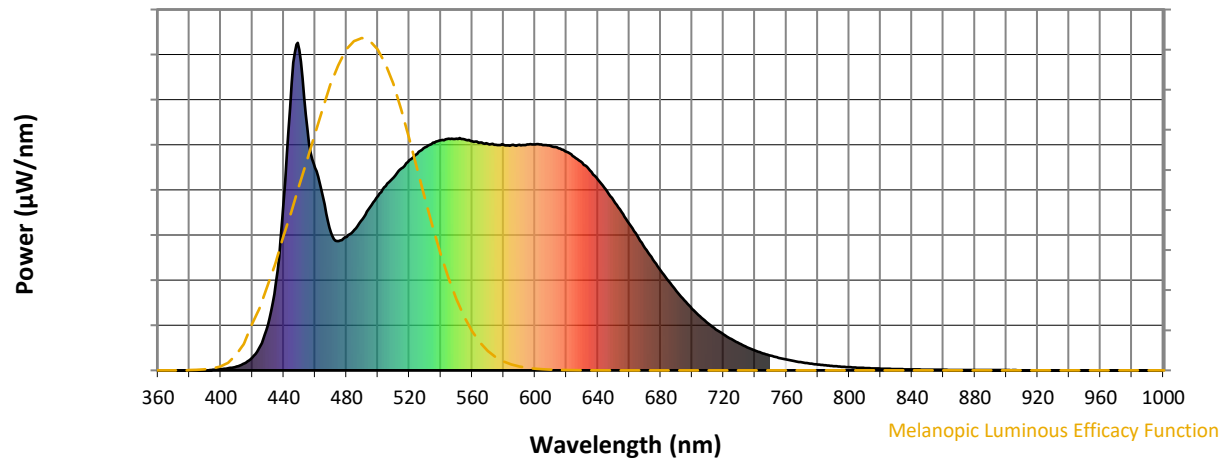
Scotopic Flux vs. Wavelength


Scotopic Lumens: NR
S/P: 1.99

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	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 4.22

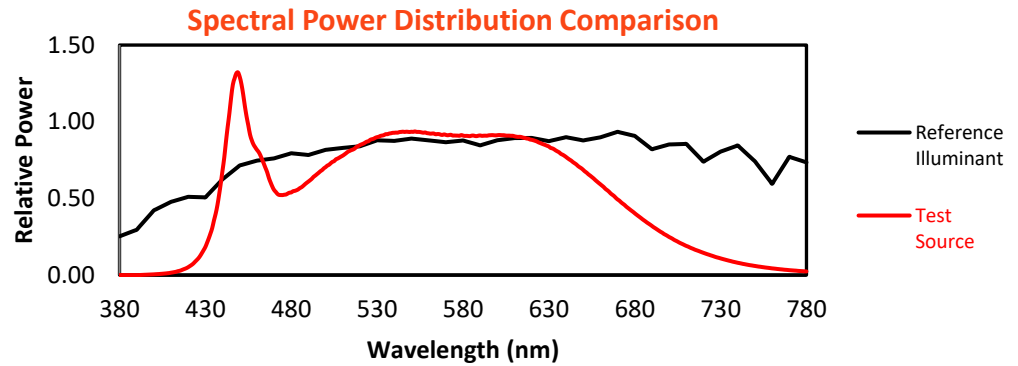
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-17

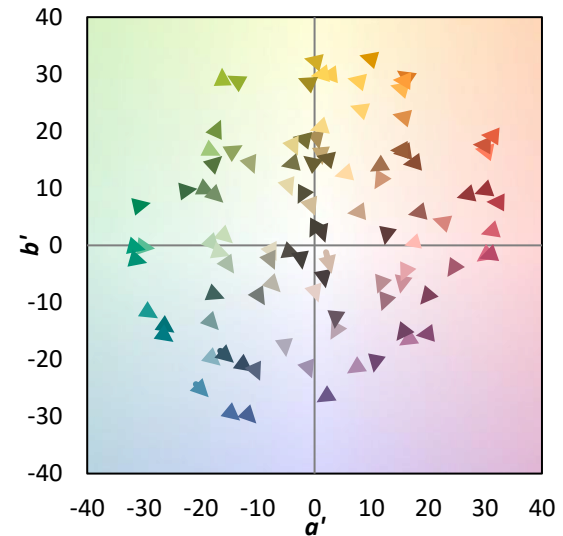
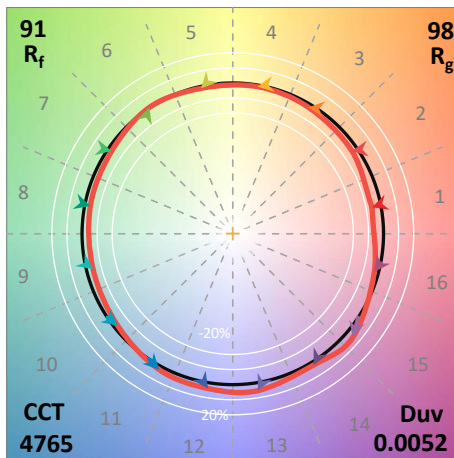
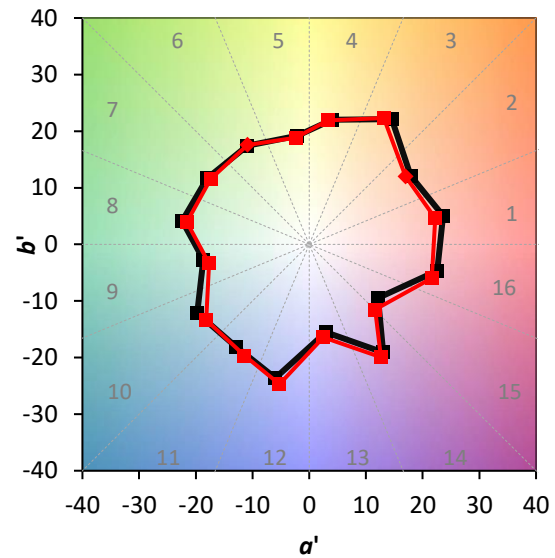
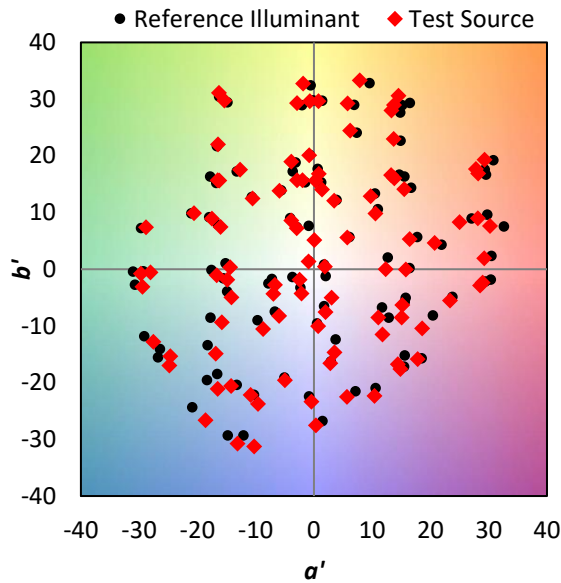
TM-30-18

Summary

$R_f = 90.7$
 $R_g = 98$
 $CIE R_a = 90.8$
 $R_9 = 54.9$

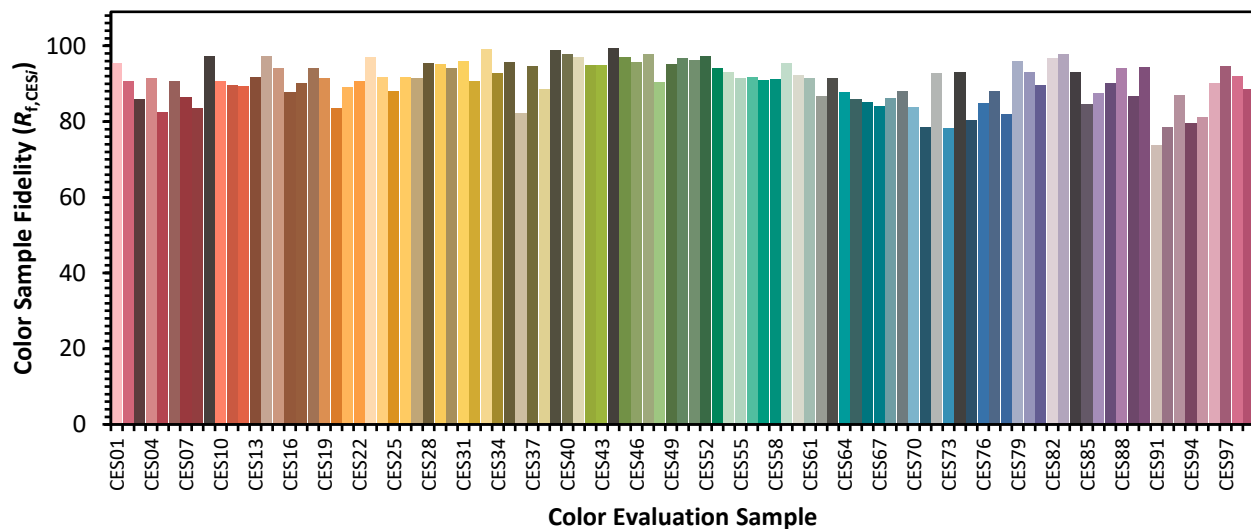


Color Vector Graphics

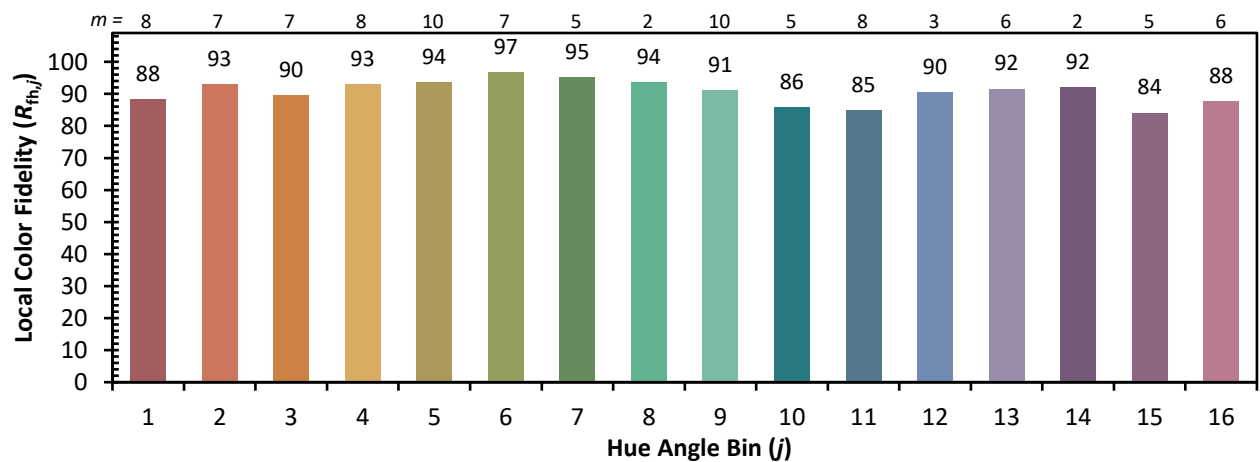
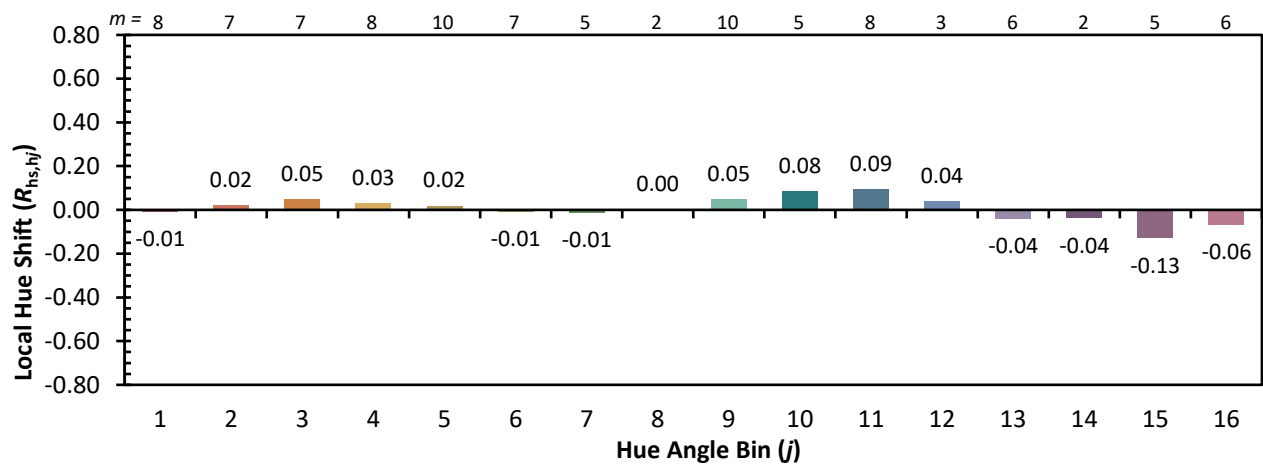
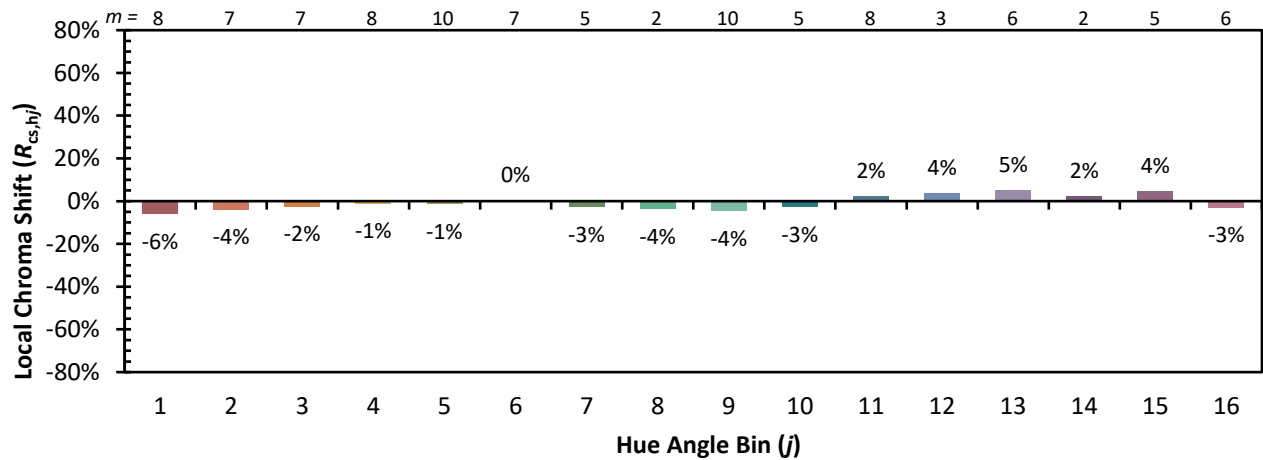


Individual Sample Fidelity Index ($R_{f,i}$)

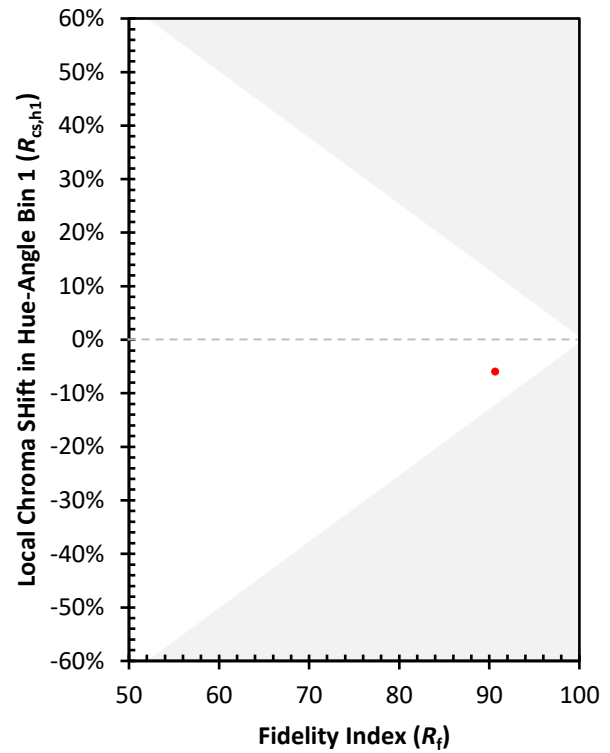
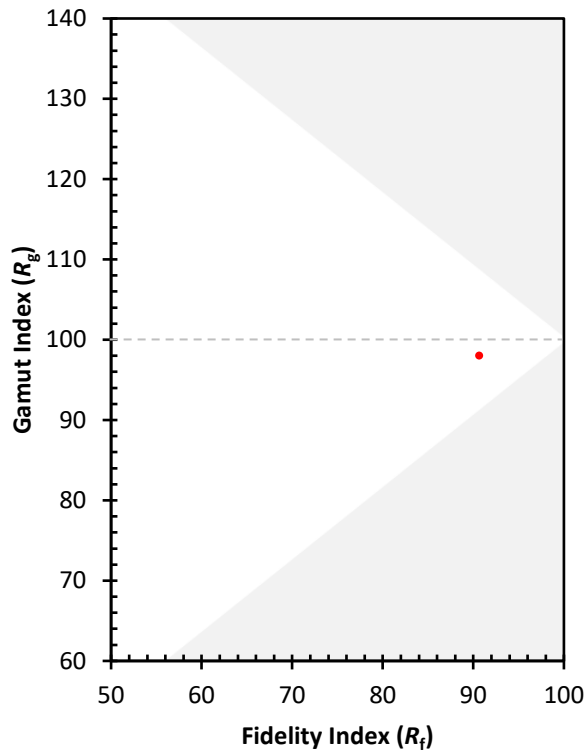
CES01 = 85	CES26 = 92	CES51 = 96	CES76 = 85
CES02 = 60	CES27 = 92	CES52 = 97	CES77 = 88
CES03 = 31	CES28 = 95	CES53 = 94	CES78 = 82
CES04 = 69	CES29 = 95	CES54 = 93	CES79 = 96
CES05 = 48	CES30 = 94	CES55 = 92	CES80 = 93
CES06 = 50	CES31 = 96	CES56 = 92	CES81 = 89
CES07 = 41	CES32 = 91	CES57 = 91	CES82 = 97
CES08 = 40	CES33 = 99	CES58 = 91	CES83 = 98
CES09 = 29	CES34 = 93	CES59 = 95	CES84 = 93
CES10 = 73	CES35 = 96	CES60 = 92	CES85 = 85
CES11 = 56	CES36 = 82	CES61 = 92	CES86 = 88
CES12 = 62	CES37 = 95	CES62 = 87	CES87 = 90
CES13 = 42	CES38 = 89	CES63 = 91	CES88 = 94
CES14 = 74	CES39 = 99	CES64 = 88	CES89 = 87
CES15 = 71	CES40 = 98	CES65 = 86	CES90 = 94
CES16 = 46	CES41 = 97	CES66 = 85	CES91 = 74
CES17 = 48	CES42 = 95	CES67 = 84	CES92 = 78
CES18 = 56	CES43 = 95	CES68 = 86	CES93 = 87
CES19 = 70	CES44 = 100	CES69 = 88	CES94 = 80
CES20 = 65	CES45 = 97	CES70 = 84	CES95 = 81
CES21 = 85	CES46 = 96	CES71 = 79	CES96 = 90
CES22 = 77	CES47 = 98	CES72 = 93	CES97 = 95
CES23 = 91	CES48 = 90	CES73 = 78	CES98 = 92
CES24 = 90	CES49 = 95	CES74 = 93	CES99 = 88
CES25 = 70	CES50 = 97	CES75 = 80	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)