

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: P1050042

Luminaire Tested: **GALN-SA2B-950-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1050042
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-950-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 2xLight Square PACKAGE
90CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6604.8 lumens
Efficiency: N/A
Efficacy: 90.7 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): 72.8
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

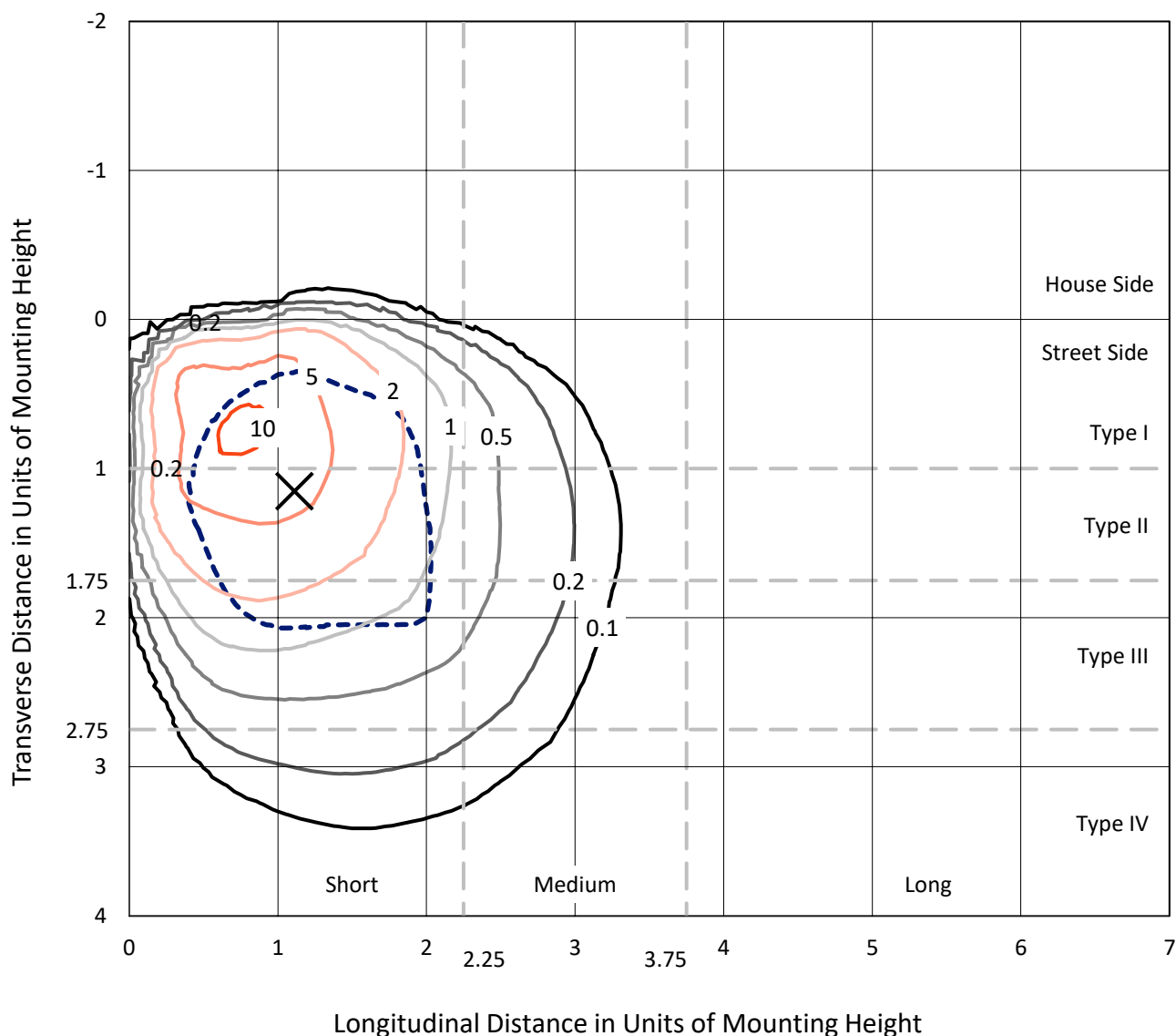
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CATALOG NUMBER: GALN-SA2B-950-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

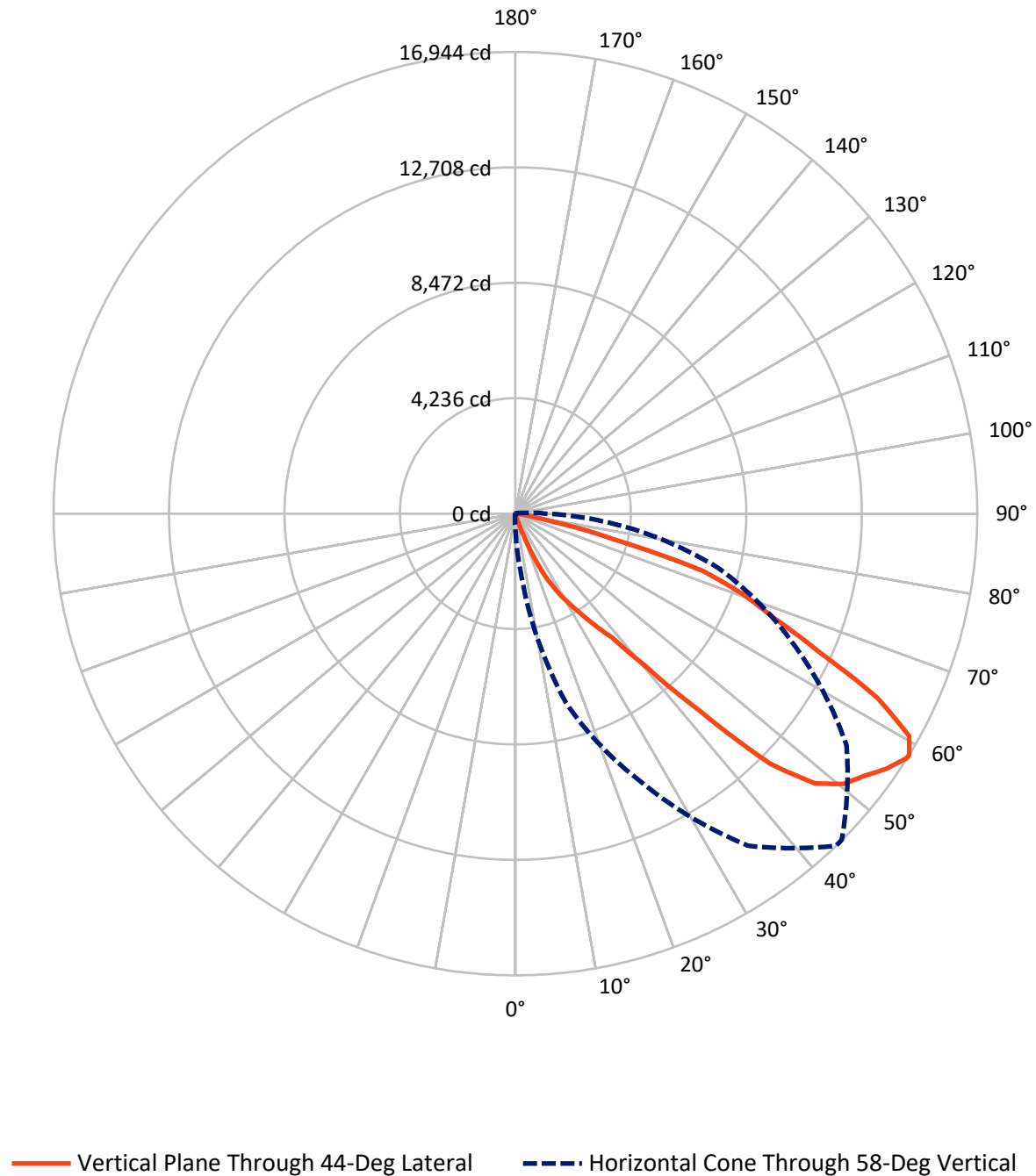


Based on 20 foot mounting height. Maximum calculated value = 11.5 fc

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	45.1	0.0	45.1
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	6559.7	0.0	6559.7
	% Fixture	99.3	0.0	99.3
Total	Lumens	6604.8	0.0	6604.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.6	0.0
10°-20°	14.5	0.2
20°-30°	156.5	2.4
30°-40°	462.7	7.0
40°-50°	1379.2	20.9
50°-60°	2188.4	33.1
60°-70°	1825.4	27.6
70°-80°	563.0	8.5
80°-90°	12.5	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°	6604.8	100.0
0°-180°	6604.8	100.0



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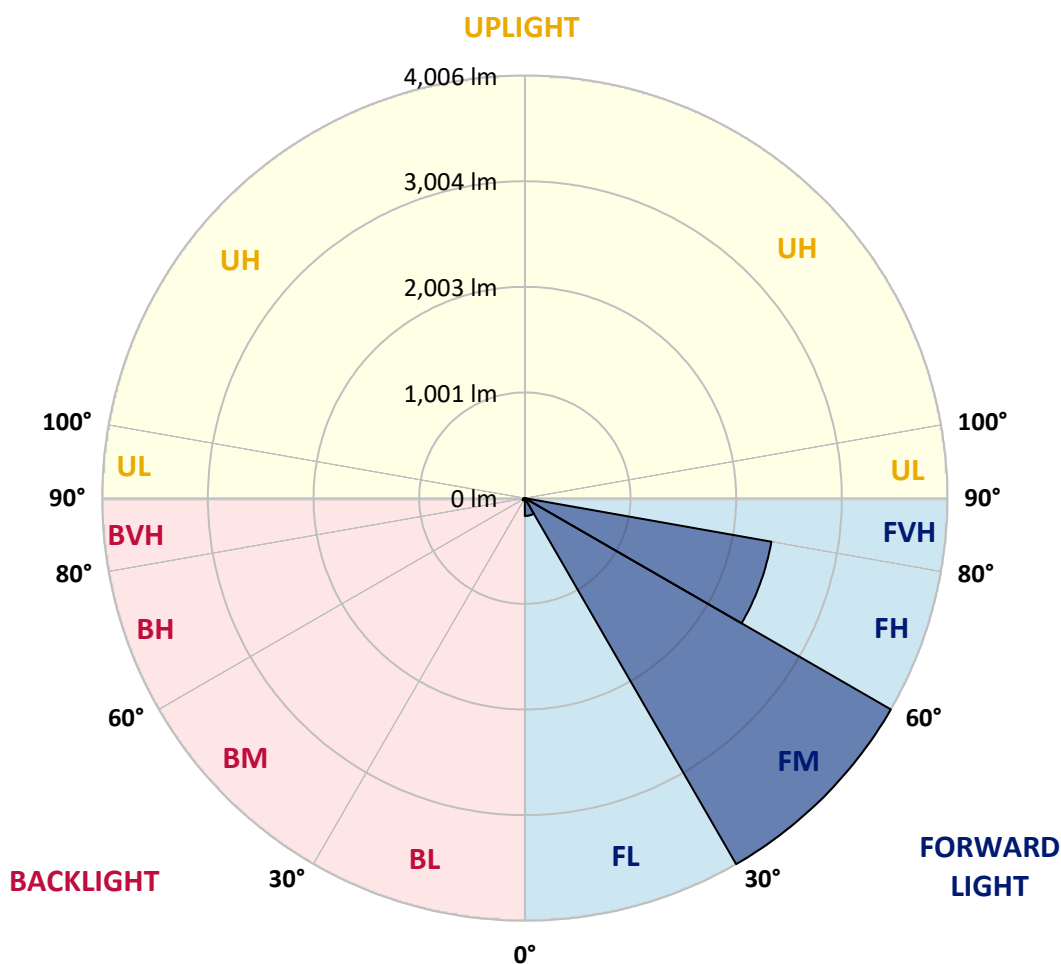
CATALOG NUMBER: GALN-SA2B-950-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	169.1	2.6			
FM	(30°-60°)	4005.7	60.6			
FH	(60°-80°)	2373.0	35.9			G2/5000
FVH	(80°-90°)	11.9	0.2			G1/100
BL	(0°-30°)	4.4	0.1	B0/110		
BM	(30°-60°)	24.7	0.4	B0/220		
BH	(60°-80°)	15.4	0.2	B0/110		G0/110
BVH	(80°-90°)	0.6	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°	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9
2.5°	37.4	37.4	35.9	33.9	31.9	29.9	29.4	28.4	27.9	27.4
5°	38.9	38.9	38.4	36.9	34.9	33.4	33.4	31.9	30.9	29.9
7.5°	39.9	40.4	41.4	40.9	39.9	38.4	38.4	37.4	35.9	33.4
10°	41.4	42.9	44.9	45.9	46.4	46.4	45.9	45.4	42.9	39.4
12.5°	42.9	45.9	50.9	55.9	58.9	62.9	62.4	61.4	54.9	47.4
15°	45.9	50.4	60.9	75.3	97.8	111.8	117.2	112.3	90.8	63.9
17.5°	49.4	56.9	88.3	157.7	258.4	306.3	335.3	311.8	206.6	121.2
20°	52.9	69.4	164.1	408.6	670.6	827.2	870.6	802.8	515.4	231.0
22.5°	58.9	97.3	332.8	844.7	1444.9	1679.9	1724.3	1507.3	973.4	456.0
25°	71.3	141.2	573.8	1376.6	2156.4	2553.1	2534.6	2250.2	1579.1	728.4
27.5°	89.3	205.6	867.6	1955.8	2837.9	3187.7	3229.6	2877.9	2105.0	1071.2
30°	115.3	284.9	1183.0	2419.8	3384.3	3762.5	3769.5	3405.7	2575.5	1372.1
32.5°	140.2	359.7	1458.9	2868.4	3922.6	4337.2	4368.2	3920.6	2926.8	1685.4
35°	159.2	408.6	1738.3	3262.5	4465.5	5036.8	5034.8	4503.4	3342.9	1965.3
37.5°	160.7	457.5	1991.3	3665.7	5153.0	5792.6	5856.0	5270.3	3845.8	2311.6
40°	157.2	512.4	2311.6	4294.3	6391.9	7373.3	7429.2	6690.7	4854.6	2904.3
42.5°	161.2	607.7	2831.5	5455.4	8449.0	9858.5	9966.2	9189.9	6709.2	4113.7
45°	182.1	786.8	3920.6	7397.7	11381.2	13099.6	13063.6	11945.5	8867.1	5954.8
47.5°	251.5	1225.4	5535.2	9288.2	13255.2	14785.5	14816.4	13449.8	10126.4	7370.3
50°	386.7	1875.0	6891.8	10287.6	14061.0	15596.2	15567.3	13988.2	10604.9	8067.3
52.5°	502.9	2345.0	7572.3	10638.3	14164.3	15996.9	15994.9	14129.9	10679.2	8127.2
55°	531.9	2380.4	7577.8	10657.3	14395.8	16521.3	16587.1	14478.6	10775.5	7865.7
57.5°	520.4	2107.5	7261.5	10767.0	14807.9	16926.9	16930.4	14816.4	11020.0	7705.6
58°	510.4	2064.6	7197.6	10829.4	14878.8	16943.9	16935.4	14831.9	11219.1	7699.6
60°	454.5	1792.7	6948.7	10988.6	14773.5	16595.6	16516.3	14494.1	11189.6	7638.2
62.5°	357.2	1398.5	6703.7	10804.4	13644.9	14909.7	14942.6	12832.1	10200.7	7280.5
65°	284.4	1042.3	6192.8	9477.3	11236.0	12243.9	12366.6	10434.7	8514.3	6164.8
67.5°	226.5	753.4	5194.9	7545.4	8891.0	10218.7	10308.0	8760.8	6596.4	4723.4
70°	184.1	509.4	3585.8	5518.2	7333.4	8826.2	8831.7	7278.0	4923.5	3094.9
72.5°	163.2	352.7	2081.6	4024.4	5946.3	7192.2	7047.0	5905.9	3783.9	1833.1
75°	141.2	234.0	1020.8	2460.3	3605.3	3629.8	3685.1	2739.7	1891.5	871.6
77.5°	116.3	166.1	402.1	672.1	1081.2	1384.0	1435.4	1087.7	629.2	214.5
80°	79.8	78.8	108.3	206.1	309.3	387.7	361.7	279.9	164.6	82.3
82.5°	34.4	37.4	48.9	58.9	47.9	46.4	44.4	28.4	22.0	17.0
85°	11.0	10.0	10.5	10.5	8.5	6.5	6.5	3.0	0.0	0.0
87.5°	5.5	4.5	4.5	4.0	2.5	1.0	0.5	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°
28.9	0°	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9
26.9	2.5°	26.4	26.4	25.4	24.4	23.9	23.0	22.5	22.0	21.5	21.0
28.9	5°	27.9	27.4	25.9	24.4	23.0	21.5	20.5	19.5	18.5	18.0
31.9	7.5°	30.4	29.4	26.4	23.9	22.0	20.0	19.0	17.5	16.5	15.0
35.4	10°	33.4	31.4	27.4	24.4	21.5	19.0	17.5	16.0	14.5	12.5
40.4	12.5°	37.4	33.9	28.9	23.9	20.5	17.5	16.0	14.0	12.5	11.0
46.9	15°	40.9	36.4	29.4	23.9	19.5	16.0	14.0	12.0	10.5	8.5
58.9	17.5°	45.9	38.4	28.9	22.5	18.0	14.0	12.0	10.5	8.0	5.0
87.3	20°	54.4	39.9	27.9	21.0	15.5	11.5	9.0	7.0	3.5	1.0
131.2	22.5°	67.9	43.9	26.9	19.0	13.5	9.0	6.0	2.5	0.0	0.0
199.6	25°	93.8	50.9	26.9	18.0	12.0	6.5	2.0	0.0	0.0	0.0
283.4	27.5°	124.7	60.4	26.9	15.5	9.5	3.5	0.0	0.0	0.0	0.0
386.2	30°	156.2	70.8	26.9	13.5	7.5	0.5	0.0	0.0	0.0	0.0
475.5	32.5°	186.1	79.8	27.4	11.5	5.0	0.0	0.0	0.0	0.0	0.0
599.2	35°	216.5	81.3	26.9	10.0	3.0	0.0	0.0	0.0	0.0	0.0
750.9	37.5°	255.5	78.3	25.4	9.0	1.5	0.0	0.0	0.0	0.0	0.0
987.9	40°	314.3	79.8	23.9	8.5	0.5	0.0	0.0	0.0	0.0	0.0
1410.5	42.5°	423.1	86.3	22.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0
2246.7	45°	731.4	115.8	20.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0
3372.8	47.5°	1209.9	208.1	19.5	9.0	0.0	0.0	0.0	0.0	0.0	0.0
4062.8	50°	1544.2	261.9	20.5	9.5	0.0	0.0	0.0	0.0	0.0	0.0
4149.1	52.5°	1541.7	291.9	21.5	10.0	2.0	0.0	0.0	0.0	0.0	0.0
3824.3	55°	1370.6	297.4	23.0	11.0	6.5	0.0	0.0	0.0	0.0	0.0
3286.5	57.5°	1145.6	271.4	26.4	13.5	12.0	0.0	0.0	0.0	0.0	0.0
3202.2	58°	1105.6	259.4	27.4	14.0	13.0	0.0	0.0	0.0	0.0	0.0
2777.6	60°	906.1	211.5	34.9	17.5	17.5	0.0	0.0	0.0	0.0	0.0
2277.1	62.5°	625.7	184.6	39.9	22.5	18.0	0.0	0.0	0.0	0.0	0.0
1678.9	65°	442.6	166.6	43.4	23.9	14.5	0.0	0.0	0.0	0.0	0.0
1193.0	67.5°	330.8	153.7	47.9	24.4	7.5	0.0	0.0	0.0	0.0	0.0
748.4	70°	253.5	144.2	58.9	25.9	2.0	0.0	0.0	0.0	0.0	0.0
446.0	72.5°	206.6	133.2	71.3	26.9	0.0	0.0	0.0	0.0	0.0	0.0
267.4	75°	171.1	120.2	68.9	29.4	0.0	0.0	0.0	0.0	0.0	0.0
142.7	77.5°	113.8	93.3	62.9	29.4	0.0	0.0	0.0	0.0	0.0	0.0
50.9	80°	39.9	36.9	48.9	25.9	0.0	0.0	0.0	0.0	0.0	0.0
10.5	82.5°	6.0	5.0	7.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
28.9	0°	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9
20.5	2.5°	20.5	20.5	20.0	20.5	20.5	21.5	23.9	27.4	31.4	32.9
17.5	5°	17.0	16.5	16.0	16.0	16.0	17.5	19.5	23.4	27.9	29.9
14.5	7.5°	14.0	13.5	13.0	12.5	12.5	13.5	16.0	20.5	24.9	26.9
12.0	10°	11.5	10.5	10.0	9.5	9.5	10.5	13.0	17.5	22.5	24.4
10.0	12.5°	9.5	8.0	7.0	6.5	6.0	7.5	10.0	14.0	19.5	22.0
7.5	15°	6.5	5.0	3.5	3.0	2.5	4.0	6.5	11.0	16.5	19.5
4.0	17.5°	3.5	1.5	0.5	0.0	0.0	1.0	3.0	8.0	13.5	16.0
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	10.0	12.5
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	6.0	8.5
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	4.5
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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	1.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.0
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):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
28.9	0°	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9
34.4	2.5°	35.4	34.9	33.9	32.9	32.9	32.9	34.4	35.9	37.4	37.4
30.9	5°	32.9	32.9	32.4	31.4	31.4	31.9	33.9	36.4	38.4	38.9
28.4	7.5°	30.4	31.4	30.4	29.9	30.4	30.9	32.9	35.9	38.9	39.9
26.4	10°	28.9	29.4	29.4	28.9	28.9	29.9	31.9	35.9	39.9	41.4
23.9	12.5°	26.9	27.9	27.4	27.4	27.4	28.4	30.9	35.4	40.9	42.9
21.5	15°	24.9	26.4	26.4	25.9	25.9	26.4	29.9	34.9	42.4	45.9
18.5	17.5°	23.0	24.4	24.9	23.9	23.9	24.9	28.4	34.9	43.4	49.4
15.0	20°	19.0	21.5	23.0	21.5	21.5	22.5	25.9	32.9	43.9	52.9
11.0	22.5°	15.0	17.5	19.5	19.0	19.0	19.5	23.9	31.4	44.4	58.9
6.5	25°	11.0	13.5	15.0	16.0	16.0	17.5	22.0	30.4	46.4	71.3
3.0	27.5°	6.5	9.5	11.5	12.5	13.0	15.0	20.5	29.4	49.9	89.3
0.0	30°	3.0	5.5	8.0	10.0	10.0	13.5	19.0	28.4	54.4	115.3
0.0	32.5°	0.0	2.5	4.0	7.0	7.5	11.0	17.5	27.4	60.9	140.2
0.0	35°	0.0	0.0	2.0	5.5	5.5	9.0	16.0	26.4	70.8	159.2
0.0	37.5°	0.0	0.0	0.0	4.0	4.5	8.0	15.5	25.9	72.8	160.7
0.0	40°	0.0	0.0	0.0	3.0	3.5	7.5	15.5	26.4	65.9	157.2
0.0	42.5°	0.0	0.0	0.0	2.0	2.5	7.5	15.5	27.4	59.4	161.2
0.0	45°	0.0	0.0	0.0	1.5	2.0	8.0	15.0	26.9	55.9	182.1
0.0	47.5°	0.0	0.0	0.0	2.0	3.0	8.0	14.5	26.4	56.4	251.5
0.0	50°	0.0	0.0	0.0	2.5	3.5	8.0	15.0	25.4	61.9	386.7
0.0	52.5°	0.0	0.0	0.0	2.0	3.0	9.0	16.5	24.9	67.4	502.9
0.0	55°	0.0	0.0	0.0	0.5	1.5	11.5	18.0	24.9	75.8	531.9
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	13.0	20.5	26.4	89.8	520.4
0.0	58°	0.0	0.0	0.0	0.0	0.0	13.0	21.0	26.4	90.8	510.4
0.0	60°	0.0	0.0	0.0	0.0	0.0	13.0	23.0	29.4	97.8	454.5
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	11.0	27.4	36.9	101.8	357.2
0.0	65°	0.0	0.0	0.0	0.0	0.0	9.0	32.4	40.4	104.8	284.4
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	8.5	33.4	40.9	106.3	226.5
0.0	70°	0.0	0.0	0.0	0.0	0.0	9.0	32.9	43.9	111.3	184.1
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	10.0	29.9	48.4	111.3	163.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	10.5	27.9	54.4	101.3	141.2
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	10.0	27.4	63.4	90.3	116.3
0.0	80°	1.0	1.5	1.5	1.0	1.0	8.5	26.9	64.4	76.8	79.8
0.5	82.5°	3.0	4.0	3.5	2.5	2.5	7.5	23.9	53.9	39.9	34.4
3.0	85°	5.5	6.5	6.5	5.5	5.5	7.0	15.0	19.5	13.5	11.0
5.5	87.5°	7.5	8.5	8.5	7.5	7.5	7.0	6.5	6.0	5.5	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

(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

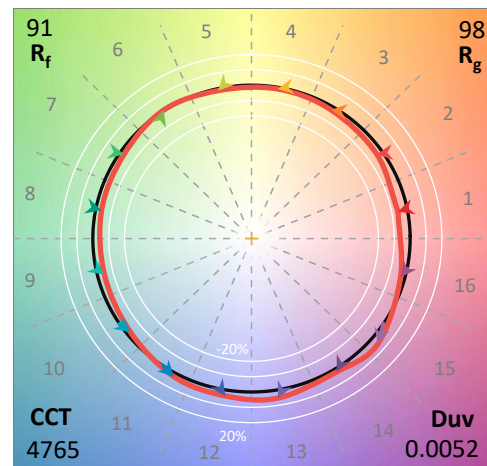
Test Information

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
 CIE u' : 0.2105
 CIE v' : 0.4941
 Duv: 0.0052
 CIE x: 0.3536
 CIE y: 0.3689
 CIE z: 0.2775
 Peak Wavelength (nm): 449
 Dominant Wavelength (nm): 571
 Purity: 16.80041
 R_f: 90.7
 R_g: 98

CRI (Ra): 90.8
 R1: 89.8
 R2: 93.1
 R3: 95.3
 R4: 90.3
 R5: 89.0
 R6: 89.7
 R7: 94.9
 R8: 84.0
 R9: 54.9
 R10: 83.0
 R11: 89.6
 R12: 68.0
 R13: 90.6
 R14: 97.3
 R15: 86.2



Test Conditions

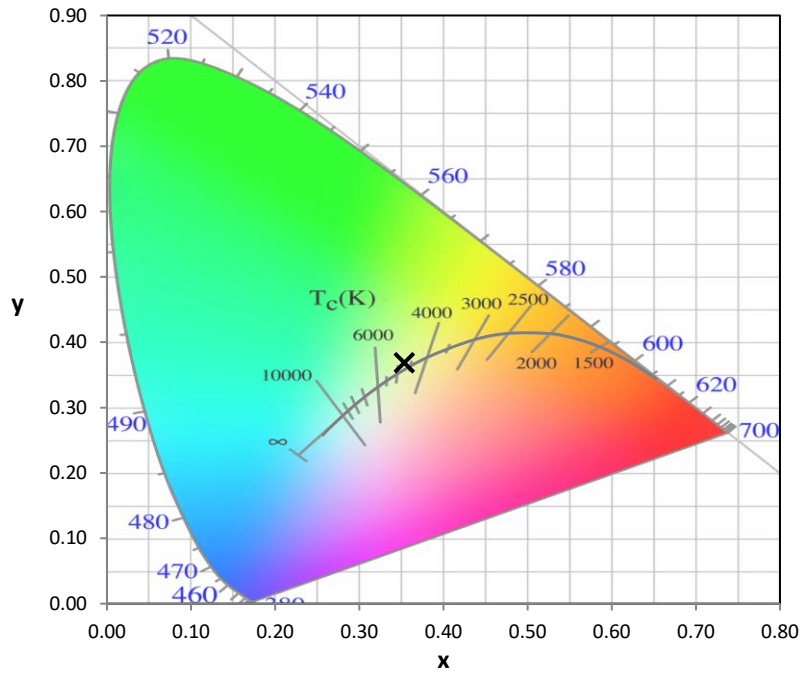
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-17

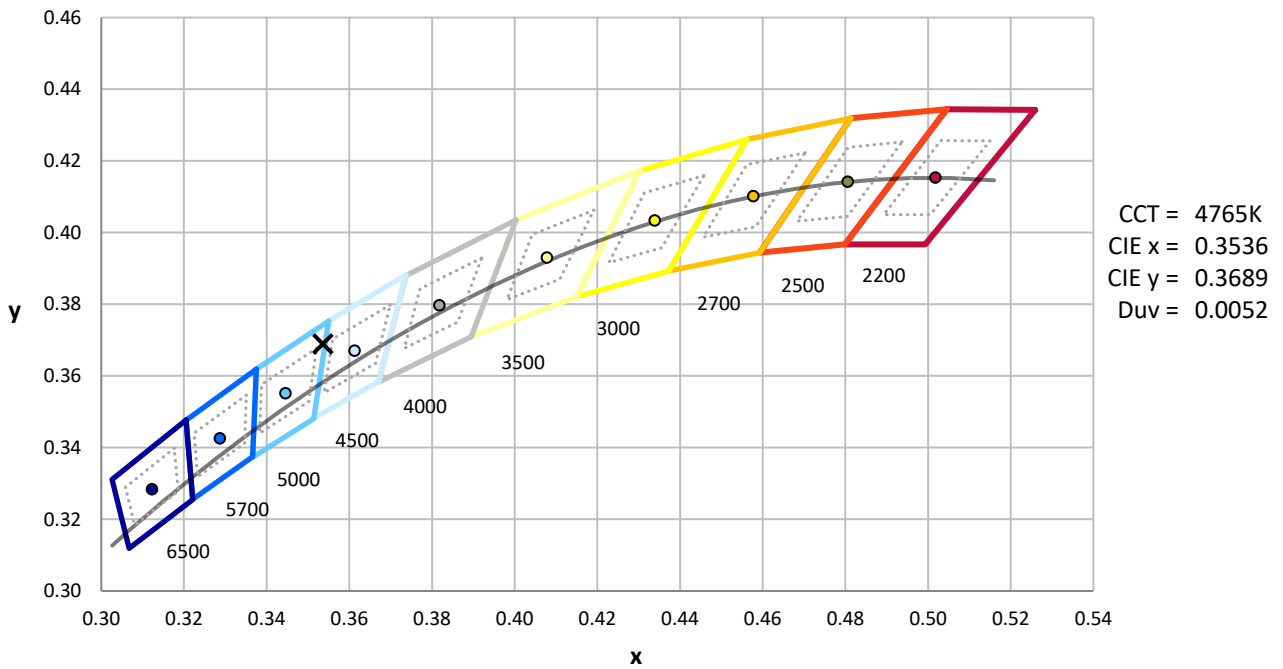
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



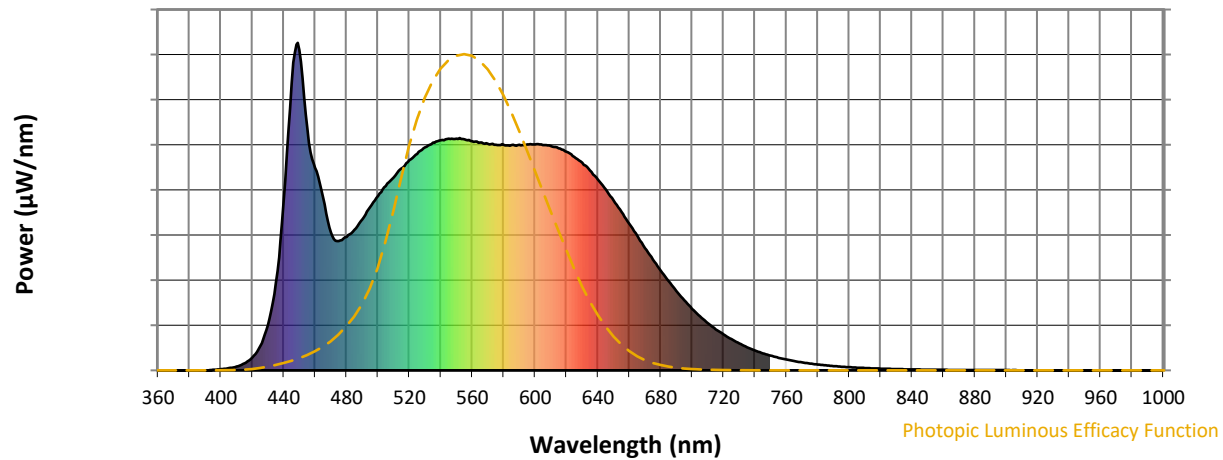
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-17

Photopic Flux vs. Wavelength

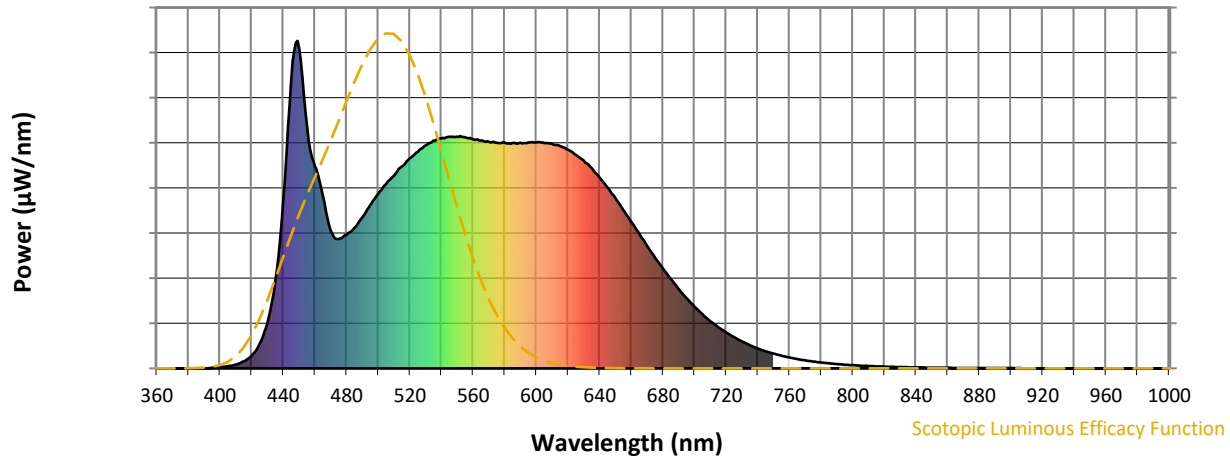


Photopic Lumens: NR

λ (nm)	Power 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

Scotopic Flux vs. Wavelength



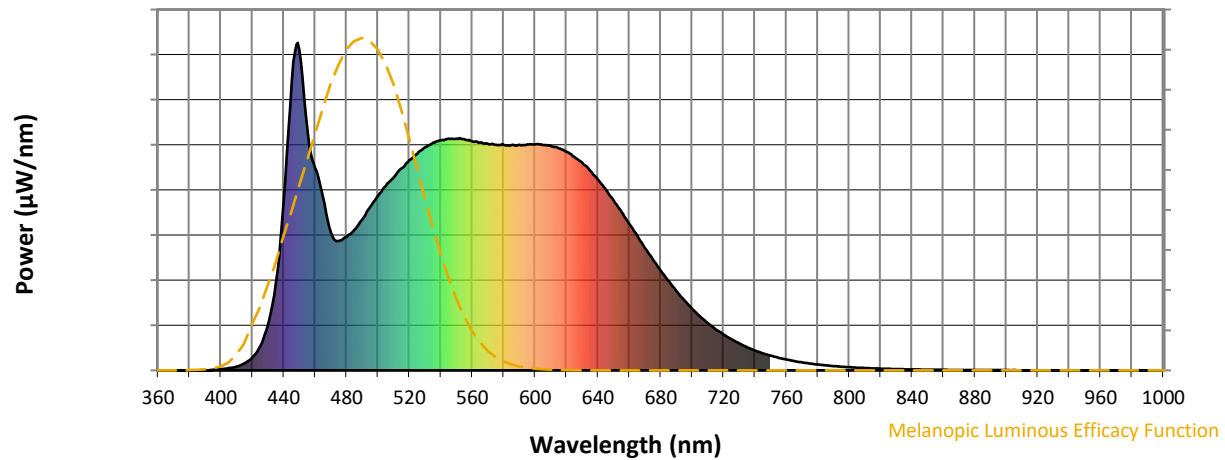
Scotopic Lumens: NR

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

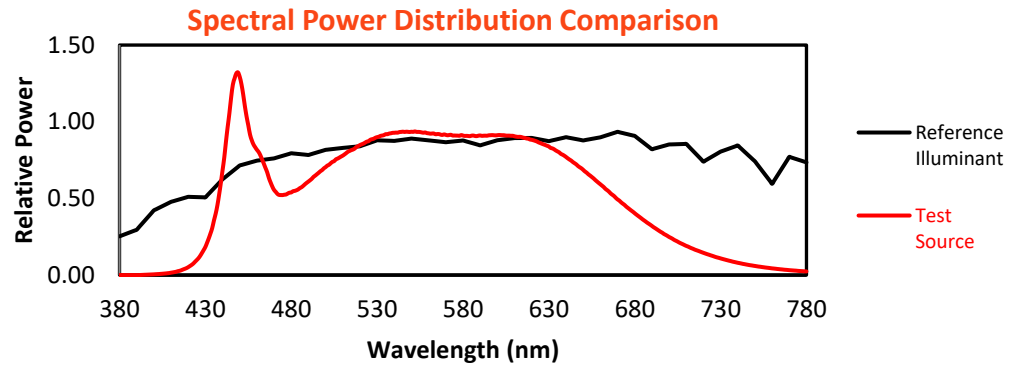
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	462	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

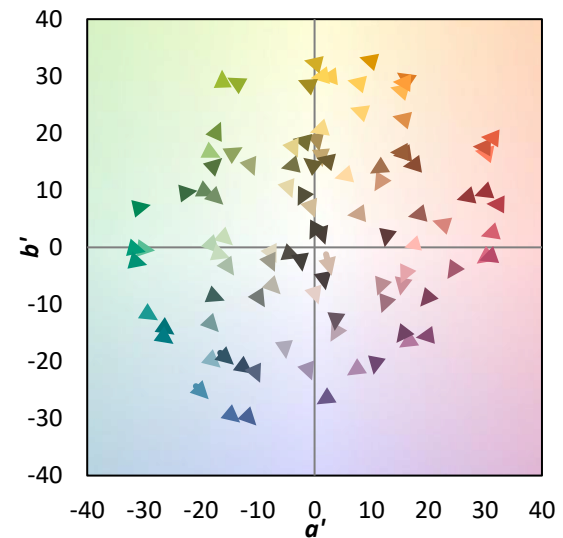
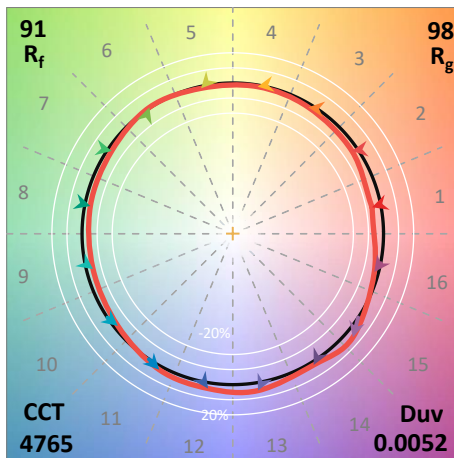
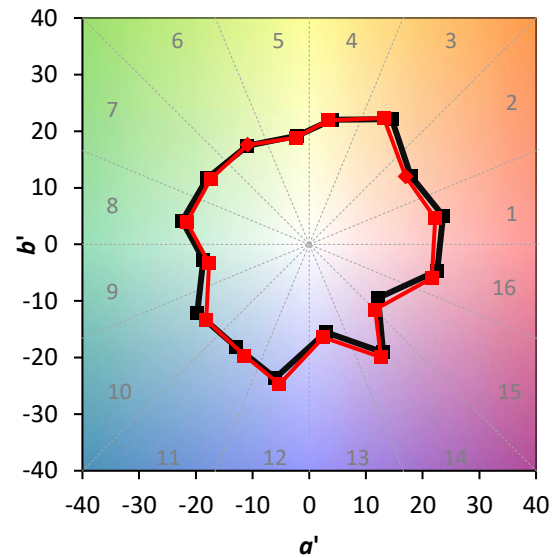
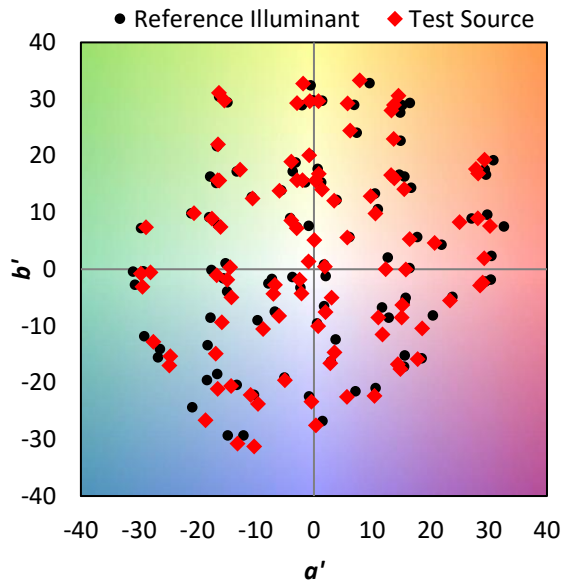
TM-30-18

Summary

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

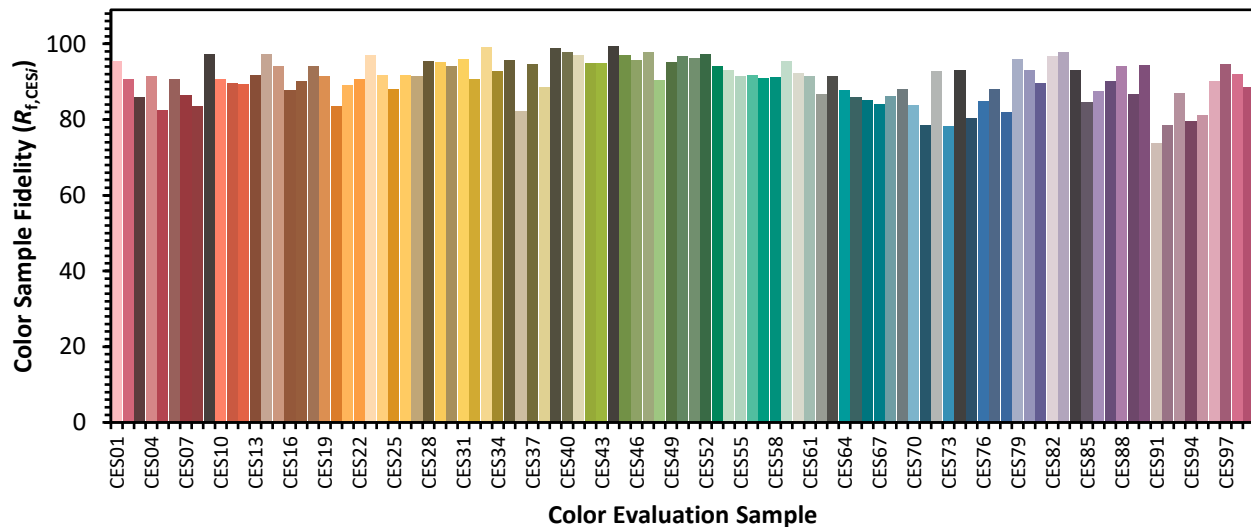


Color Vector Graphics

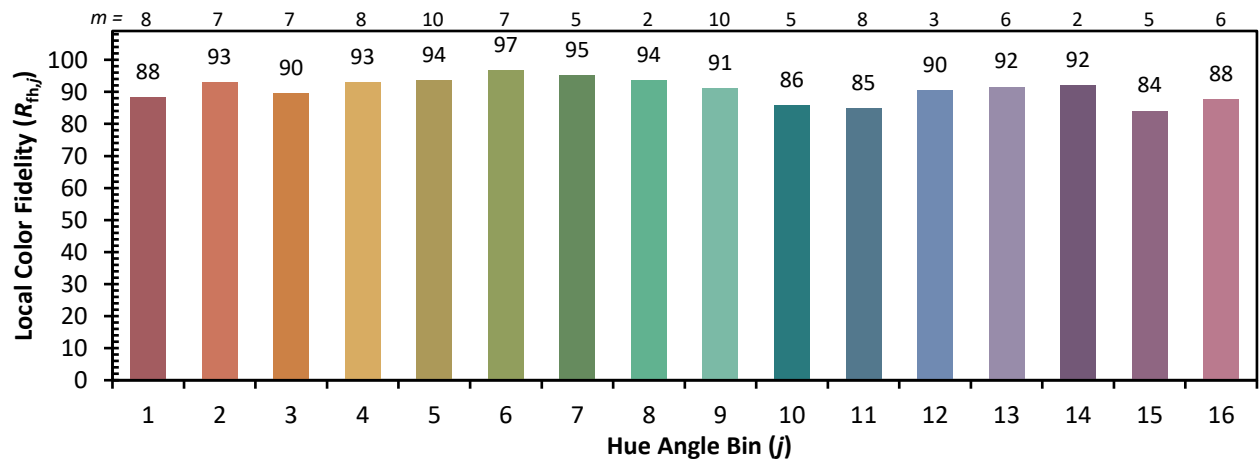
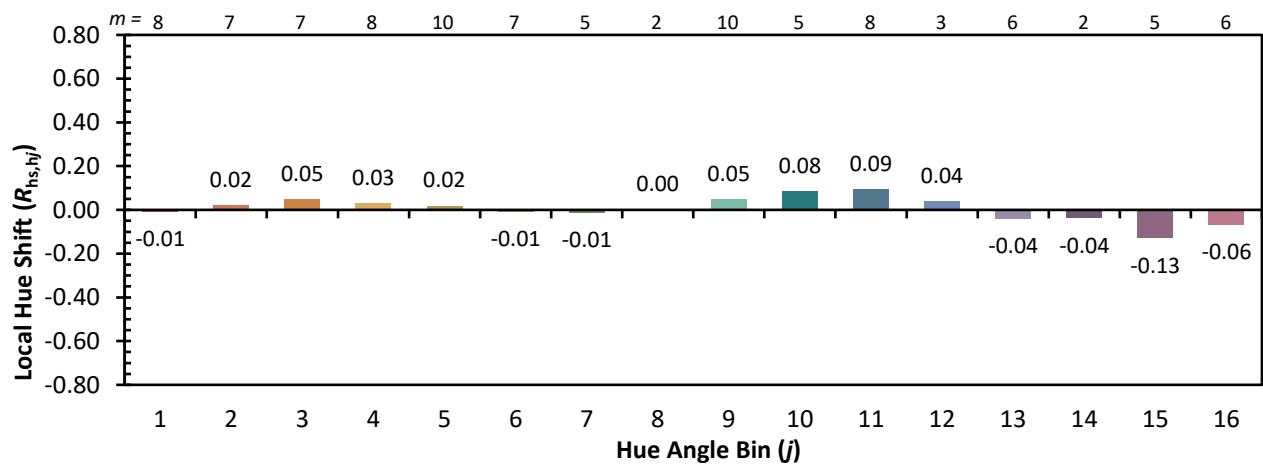
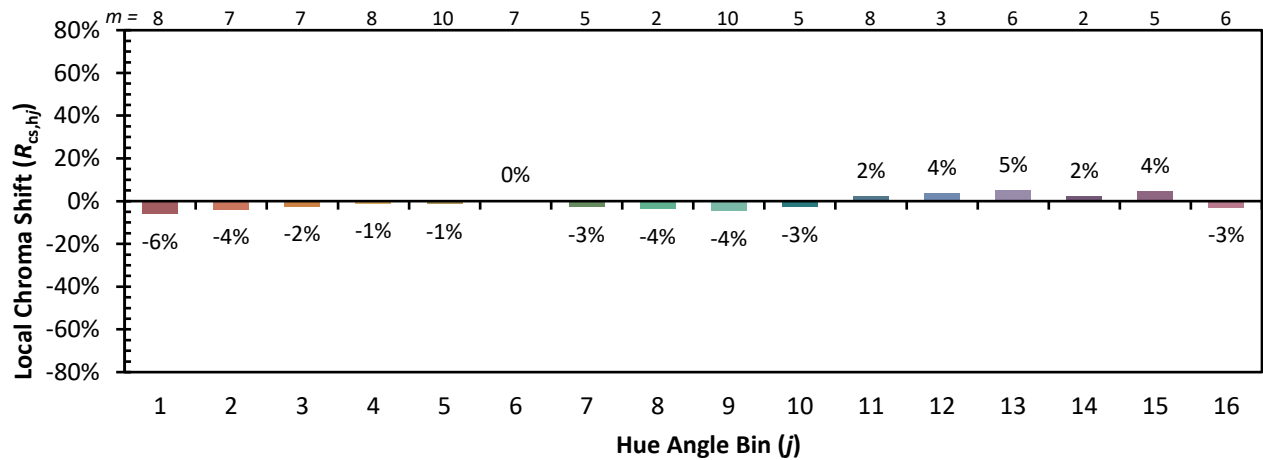


Individual Sample Fidelity Index ($R_{f,i}$)

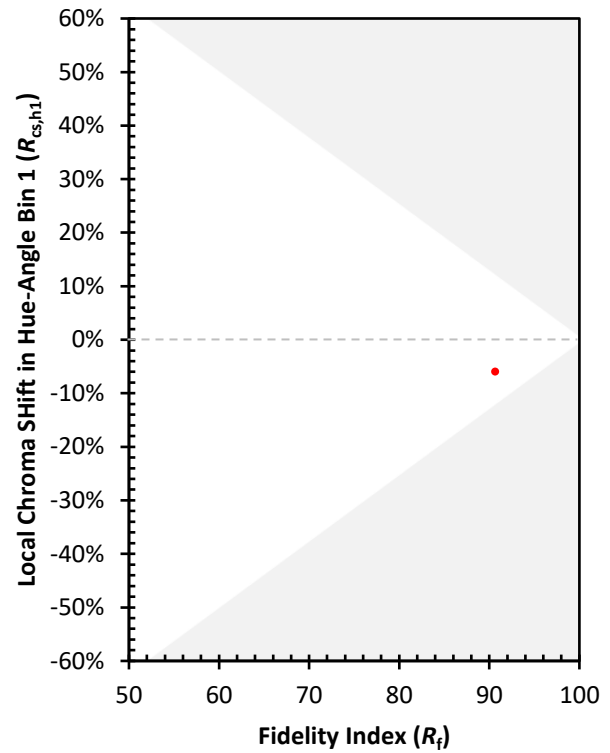
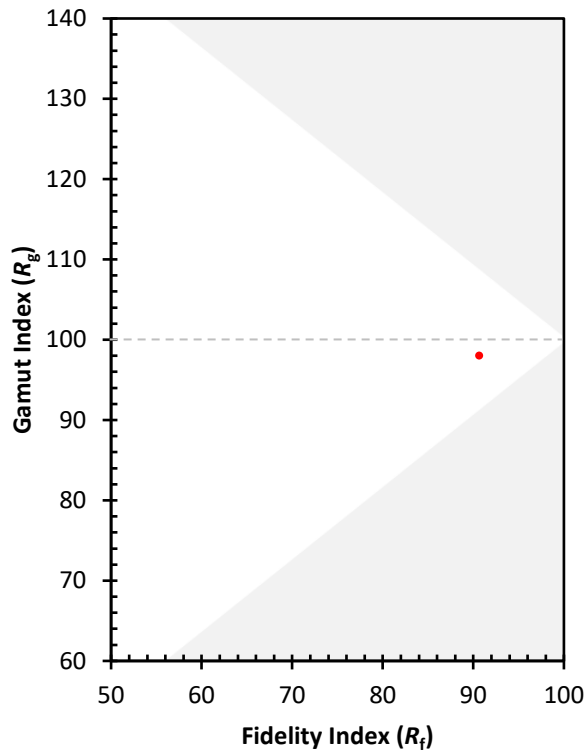
CES01 = 85	CES26 = 92	CES51 = 96	CES76 = 85
CES02 = 60	CES27 = 92	CES52 = 97	CES77 = 88
CES03 = 31	CES28 = 95	CES53 = 94	CES78 = 82
CES04 = 69	CES29 = 95	CES54 = 93	CES79 = 96
CES05 = 48	CES30 = 94	CES55 = 92	CES80 = 93
CES06 = 50	CES31 = 96	CES56 = 92	CES81 = 89
CES07 = 41	CES32 = 91	CES57 = 91	CES82 = 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)