

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: P1050066

Luminaire Tested: **GALN-SA8B-950-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1050066
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-950-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 8xLight Square PACKAGE
90CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (112) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25775.1 lumens
Efficiency: N/A
Efficacy: 91.1 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

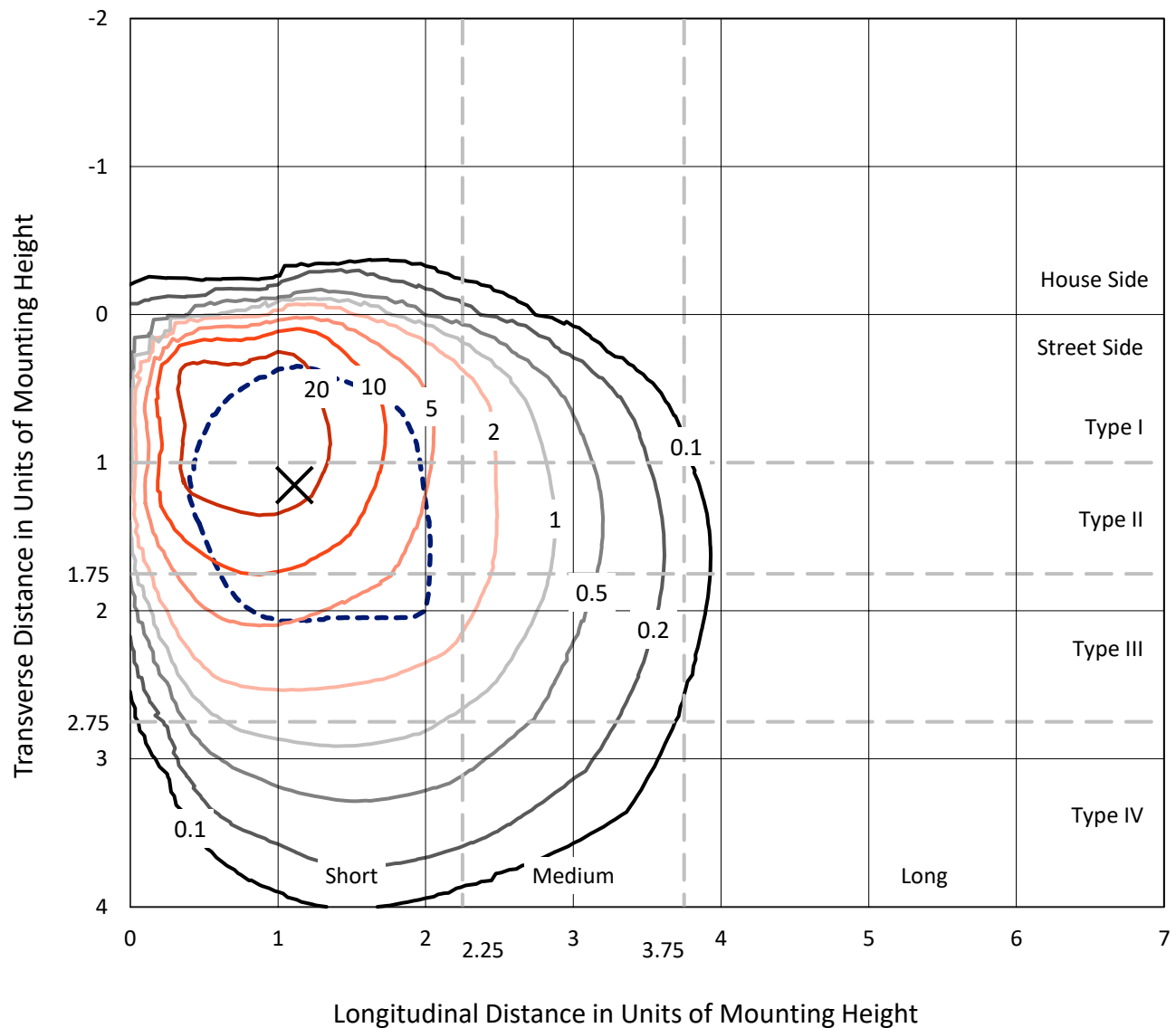
Input Watts (W): 282.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

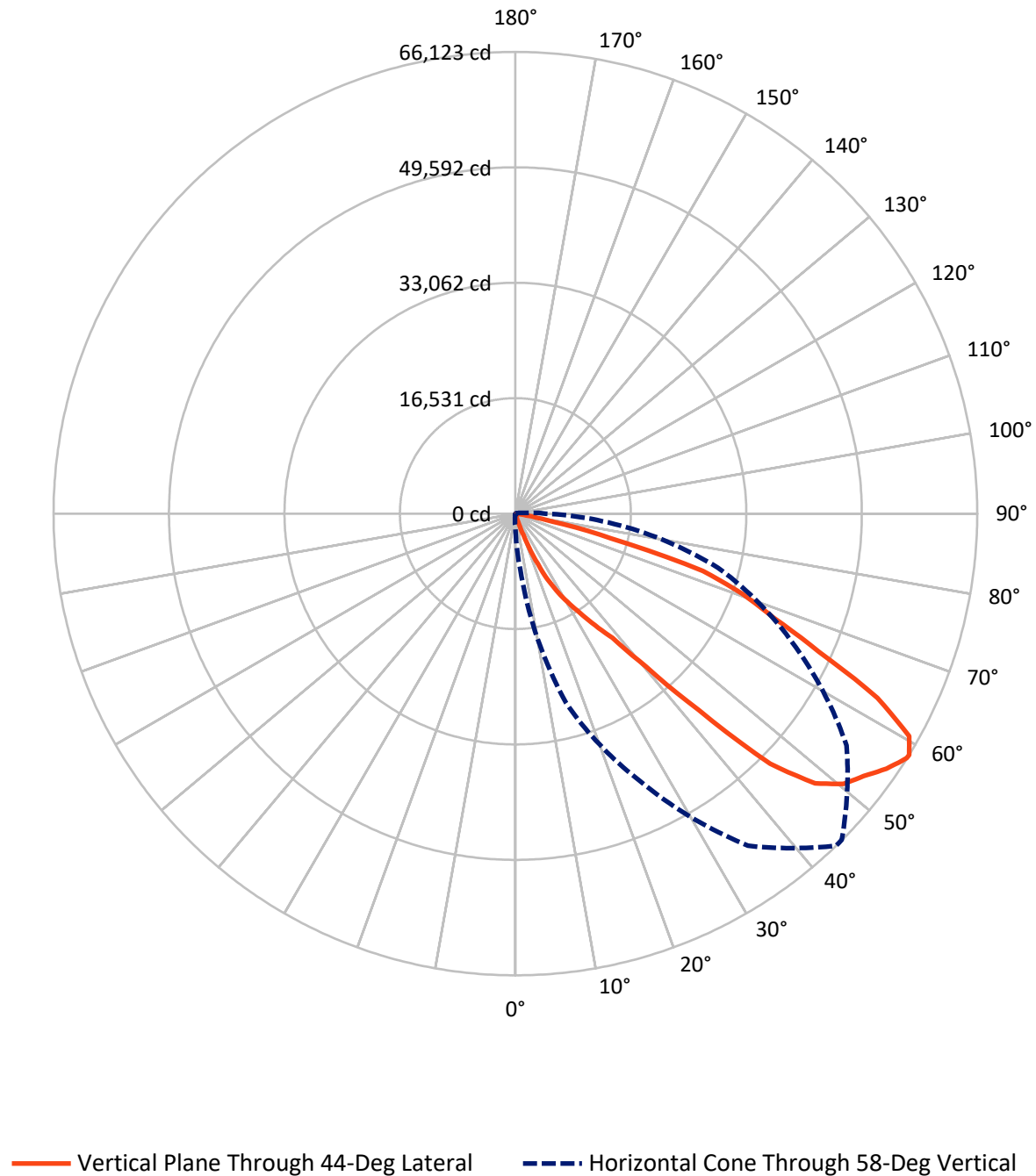
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 44.9 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	176.0	0.0	176.0
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	25599.1	0.0	25599.1
	% Fixture	99.3	0.0	99.3
Total	Lumens	25775.1	0.0	25775.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.1	0.0
10°-20°	56.5	0.2
20°-30°	610.6	2.4
30°-40°	1805.8	7.0
40°-50°	5382.3	20.9
50°-60°	8540.3	33.1
60°-70°	7123.7	27.6
70°-80°	2197.0	8.5
80°-90°	48.8	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°	25775.1	100.0
0°-180°	25775.1	100.0



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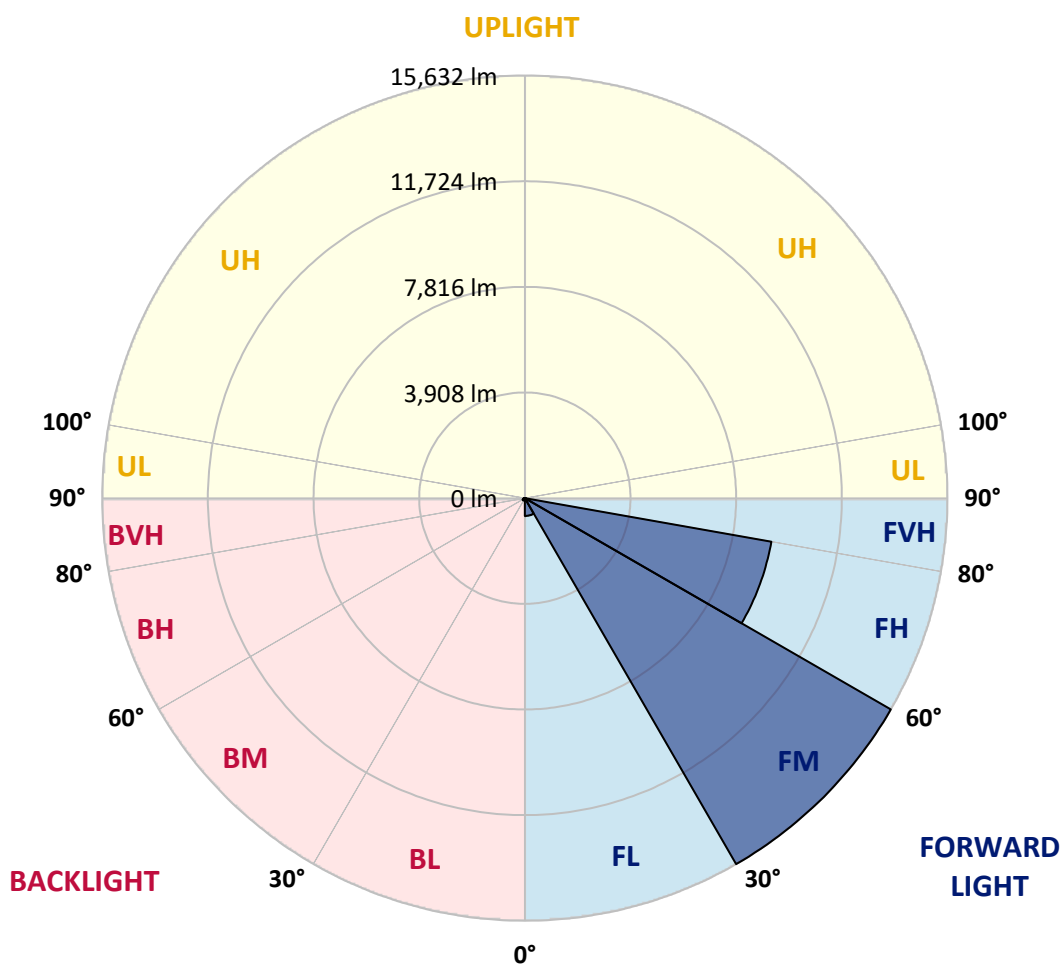
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	660.0	2.6			
FM	(30°-60°)	15632.1	60.6			
FH	(60°-80°)	9260.6	35.9			G4/12000
FVH	(80°-90°)	46.4	0.2			G1/100
BL	(0°-30°)	17.2	0.1	B0/110		
BM	(30°-60°)	96.3	0.4	B0/220		
BH	(60°-80°)	60.1	0.2	B0/110		G0/110
BVH	(80°-90°)	2.4	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	112.9	112.9	112.9	112.9	112.9	112.9	112.9	112.9	112.9	112.9
2.5°	146.0	146.0	140.2	132.4	124.6	116.8	114.9	111.0	109.0	107.1
5°	151.9	151.9	149.9	144.1	136.3	130.5	130.5	124.6	120.7	116.8
7.5°	155.8	157.7	161.6	159.7	155.8	149.9	149.9	146.0	140.2	130.5
10°	161.6	167.4	175.2	179.1	181.1	181.1	179.1	177.2	167.4	153.8
12.5°	167.4	179.1	198.6	218.1	229.8	245.3	243.4	239.5	214.2	185.0
15°	179.1	196.7	237.5	294.0	381.6	436.1	457.6	438.1	354.4	249.2
17.5°	192.8	222.0	344.6	615.3	1008.6	1195.5	1308.4	1216.9	806.1	473.1
20°	206.4	270.6	640.6	1594.7	2616.9	3228.3	3397.7	3132.9	2011.3	901.5
22.5°	229.8	379.7	1298.7	3296.4	5638.8	6555.9	6729.1	5882.2	3798.8	1779.6
25°	278.4	551.0	2239.2	5372.0	8415.3	9963.3	9891.2	8781.4	6162.5	2842.8
27.5°	348.5	802.2	3386.0	7632.6	11075.1	12440.0	12603.5	11230.8	8214.8	4180.4
30°	449.8	1111.8	4616.6	9443.4	13207.1	14683.0	14710.3	13290.8	10050.9	5354.5
32.5°	547.1	1403.9	5693.3	11193.8	15308.0	16926.1	17046.8	15300.2	11421.6	6577.3
35°	621.1	1594.7	6783.7	12732.0	17426.5	19655.9	19648.1	17574.4	13045.5	7669.6
37.5°	627.0	1785.5	7770.8	14305.3	20109.6	22605.7	22853.0	20567.1	15008.2	9020.9
40°	613.3	1999.7	9020.9	16758.6	24944.2	28774.1	28992.2	26110.5	18945.2	11334.0
42.5°	628.9	2371.6	11049.7	21289.5	32972.0	38472.6	38893.1	35863.5	26182.5	16053.8
45°	710.7	3070.6	15300.2	28869.5	44415.1	51120.9	50980.7	46617.3	34603.7	23238.5
47.5°	981.3	4782.1	21601.0	36247.0	51728.4	57700.1	57820.8	52487.7	39518.2	28762.4
50°	1509.0	7317.2	26895.2	40147.1	54872.9	60864.1	60751.2	54588.6	41385.4	31482.5
52.5°	1962.7	9151.3	29551.0	41515.9	55276.0	62427.6	62419.8	55141.6	41675.5	31716.2
55°	2075.6	9289.6	29572.4	41589.9	56179.4	64474.0	64731.0	56502.6	42051.3	30695.9
57.5°	2030.8	8224.5	28338.0	42018.2	57787.7	66057.0	66070.6	57820.8	43005.4	30070.9
58°	1991.9	8057.1	28088.7	42261.6	58064.2	66123.2	66090.1	57881.2	43782.3	30047.5
60°	1773.8	6995.9	27117.1	42882.7	57653.4	64764.1	64454.5	56563.0	43667.4	29808.0
62.5°	1394.1	5457.7	26161.1	42164.3	53249.0	58184.9	58313.4	50077.2	39808.3	28412.0
65°	1109.8	4067.5	24167.3	36985.0	43848.5	47781.6	48260.6	40721.5	33227.1	24058.3
67.5°	884.0	2940.1	20273.1	29445.9	34697.2	39878.4	40226.9	34189.0	25742.5	18433.1
70°	718.5	1988.0	13993.7	21534.8	28618.3	34444.0	34465.5	28402.2	19213.9	12077.8
72.5°	636.7	1376.6	8123.3	15705.2	23205.4	28067.3	27500.7	23047.7	14766.7	7153.6
75°	551.0	913.2	3983.7	9601.1	14069.7	14165.1	14381.2	10691.5	7381.4	3401.6
77.5°	453.7	648.4	1569.4	2622.7	4219.3	5401.2	5601.8	4244.7	2455.3	837.2
80°	311.5	307.6	422.5	804.1	1207.2	1512.9	1411.6	1092.3	642.5	321.3
82.5°	134.3	146.0	190.8	229.8	186.9	181.1	173.3	111.0	85.7	66.2
85°	42.8	38.9	40.9	40.9	33.1	25.3	25.3	11.7	0.0	0.0
87.5°	21.4	17.5	17.5	15.6	9.7	3.9	1.9	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
112.9	0°	112.9	112.9	112.9	112.9	112.9	112.9	112.9	112.9	112.9	112.9
105.1	2.5°	103.2	103.2	99.3	95.4	93.5	89.6	87.6	85.7	83.7	81.8
112.9	5°	109.0	107.1	101.2	95.4	89.6	83.7	79.8	75.9	72.0	70.1
124.6	7.5°	118.8	114.9	103.2	93.5	85.7	77.9	74.0	68.1	64.3	58.4
138.2	10°	130.5	122.7	107.1	95.4	83.7	74.0	68.1	62.3	56.5	48.7
157.7	12.5°	146.0	132.4	112.9	93.5	79.8	68.1	62.3	54.5	48.7	42.8
183.0	15°	159.7	142.1	114.9	93.5	75.9	62.3	54.5	46.7	40.9	33.1
229.8	17.5°	179.1	149.9	112.9	87.6	70.1	54.5	46.7	40.9	31.2	19.5
340.7	20°	212.2	155.8	109.0	81.8	60.4	44.8	35.0	27.3	13.6	3.9
512.1	22.5°	264.8	171.3	105.1	74.0	52.6	35.0	23.4	9.7	0.0	0.0
778.8	25°	366.1	198.6	105.1	70.1	46.7	25.3	7.8	0.0	0.0	0.0
1105.9	27.5°	486.8	235.6	105.1	60.4	37.0	13.6	0.0	0.0	0.0	0.0
1507.0	30°	609.4	276.5	105.1	52.6	29.2	1.9	0.0	0.0	0.0	0.0
1855.6	32.5°	726.3	311.5	107.1	44.8	19.5	0.0	0.0	0.0	0.0	0.0
2338.5	35°	845.0	317.4	105.1	38.9	11.7	0.0	0.0	0.0	0.0	0.0
2930.4	37.5°	996.9	305.7	99.3	35.0	5.8	0.0	0.0	0.0	0.0	0.0
3855.2	40°	1226.7	311.5	93.5	33.1	1.9	0.0	0.0	0.0	0.0	0.0
5504.4	42.5°	1651.1	336.8	85.7	33.1	0.0	0.0	0.0	0.0	0.0	0.0
8767.8	45°	2854.4	451.7	77.9	35.0	0.0	0.0	0.0	0.0	0.0	0.0
13162.3	47.5°	4721.7	811.9	75.9	35.0	0.0	0.0	0.0	0.0	0.0	0.0
15855.2	50°	6026.2	1022.2	79.8	37.0	0.0	0.0	0.0	0.0	0.0	0.0
16192.0	52.5°	6016.5	1139.0	83.7	38.9	7.8	0.0	0.0	0.0	0.0	0.0
14924.5	55°	5348.7	1160.5	89.6	42.8	25.3	0.0	0.0	0.0	0.0	0.0
12825.5	57.5°	4470.5	1059.2	103.2	52.6	46.7	0.0	0.0	0.0	0.0	0.0
12496.4	58°	4314.8	1012.5	107.1	54.5	50.6	0.0	0.0	0.0	0.0	0.0
10839.5	60°	3535.9	825.6	136.3	68.1	68.1	0.0	0.0	0.0	0.0	0.0
8886.5	62.5°	2441.7	720.4	155.8	87.6	70.1	0.0	0.0	0.0	0.0	0.0
6552.0	65°	1727.1	650.3	169.4	93.5	56.5	0.0	0.0	0.0	0.0	0.0
4655.5	67.5°	1290.9	599.7	186.9	95.4	29.2	0.0	0.0	0.0	0.0	0.0
2920.6	70°	989.1	562.7	229.8	101.2	7.8	0.0	0.0	0.0	0.0	0.0
1740.7	72.5°	806.1	519.9	278.4	105.1	0.0	0.0	0.0	0.0	0.0	0.0
1043.6	75°	667.9	469.2	268.7	114.9	0.0	0.0	0.0	0.0	0.0	0.0
556.9	77.5°	443.9	364.1	245.3	114.9	0.0	0.0	0.0	0.0	0.0	0.0
198.6	80°	155.8	144.1	190.8	101.2	0.0	0.0	0.0	0.0	0.0	0.0
40.9	82.5°	23.4	19.5	27.3	35.0	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°
112.9	0°	112.9	112.9	112.9	112.9	112.9	112.9	112.9	112.9	112.9	112.9
79.8	2.5°	79.8	79.8	77.9	79.8	79.8	83.7	93.5	107.1	122.7	128.5
68.1	5°	66.2	64.3	62.3	62.3	62.3	68.1	75.9	91.5	109.0	116.8
56.5	7.5°	54.5	52.6	50.6	48.7	48.7	52.6	62.3	79.8	97.4	105.1
46.7	10°	44.8	40.9	38.9	37.0	37.0	40.9	50.6	68.1	87.6	95.4
38.9	12.5°	37.0	31.2	27.3	25.3	23.4	29.2	38.9	54.5	75.9	85.7
29.2	15°	25.3	19.5	13.6	11.7	9.7	15.6	25.3	42.8	64.3	75.9
15.6	17.5°	13.6	5.8	1.9	0.0	0.0	3.9	11.7	31.2	52.6	62.3
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.6	38.9	48.7
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	23.4	33.1
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7	17.5
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9
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	5.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	15.6
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°
112.9	0°	112.9	112.9	112.9	112.9	112.9	112.9	112.9	112.9	112.9	112.9
134.3	2.5°	138.2	136.3	132.4	128.5	128.5	128.5	134.3	140.2	146.0	146.0
120.7	5°	128.5	128.5	126.6	122.7	122.7	124.6	132.4	142.1	149.9	151.9
111.0	7.5°	118.8	122.7	118.8	116.8	118.8	120.7	128.5	140.2	151.9	155.8
103.2	10°	112.9	114.9	114.9	112.9	112.9	116.8	124.6	140.2	155.8	161.6
93.5	12.5°	105.1	109.0	107.1	107.1	107.1	111.0	120.7	138.2	159.7	167.4
83.7	15°	97.4	103.2	103.2	101.2	101.2	103.2	116.8	136.3	165.5	179.1
72.0	17.5°	89.6	95.4	97.4	93.5	93.5	97.4	111.0	136.3	169.4	192.8
58.4	20°	74.0	83.7	89.6	83.7	83.7	87.6	101.2	128.5	171.3	206.4
42.8	22.5°	58.4	68.1	75.9	74.0	74.0	75.9	93.5	122.7	173.3	229.8
25.3	25°	42.8	52.6	58.4	62.3	62.3	68.1	85.7	118.8	181.1	278.4
11.7	27.5°	25.3	37.0	44.8	48.7	50.6	58.4	79.8	114.9	194.7	348.5
0.0	30°	11.7	21.4	31.2	38.9	38.9	52.6	74.0	111.0	212.2	449.8
0.0	32.5°	0.0	9.7	15.6	27.3	29.2	42.8	68.1	107.1	237.5	547.1
0.0	35°	0.0	0.0	7.8	21.4	21.4	35.0	62.3	103.2	276.5	621.1
0.0	37.5°	0.0	0.0	0.0	15.6	17.5	31.2	60.4	101.2	284.3	627.0
0.0	40°	0.0	0.0	0.0	11.7	13.6	29.2	60.4	103.2	257.0	613.3
0.0	42.5°	0.0	0.0	0.0	7.8	9.7	29.2	60.4	107.1	231.7	628.9
0.0	45°	0.0	0.0	0.0	5.8	7.8	31.2	58.4	105.1	218.1	710.7
0.0	47.5°	0.0	0.0	0.0	7.8	11.7	31.2	56.5	103.2	220.0	981.3
0.0	50°	0.0	0.0	0.0	9.7	13.6	31.2	58.4	99.3	241.4	1509.0
0.0	52.5°	0.0	0.0	0.0	7.8	11.7	35.0	64.3	97.4	262.9	1962.7
0.0	55°	0.0	0.0	0.0	1.9	5.8	44.8	70.1	97.4	296.0	2075.6
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	50.6	79.8	103.2	350.5	2030.8
0.0	58°	0.0	0.0	0.0	0.0	0.0	50.6	81.8	103.2	354.4	1991.9
0.0	60°	0.0	0.0	0.0	0.0	0.0	50.6	89.6	114.9	381.6	1773.8
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	42.8	107.1	144.1	397.2	1394.1
0.0	65°	0.0	0.0	0.0	0.0	0.0	35.0	126.6	157.7	408.9	1109.8
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	33.1	130.5	159.7	414.7	884.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	35.0	128.5	171.3	434.2	718.5
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	38.9	116.8	188.9	434.2	636.7
0.0	75°	0.0	0.0	0.0	0.0	0.0	40.9	109.0	212.2	395.3	551.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	38.9	107.1	247.3	352.4	453.7
0.0	80°	3.9	5.8	5.8	3.9	3.9	33.1	105.1	251.2	299.9	311.5
1.9	82.5°	11.7	15.6	13.6	9.7	9.7	29.2	93.5	210.3	155.8	134.3
11.7	85°	21.4	25.3	25.3	21.4	21.4	27.3	58.4	75.9	52.6	42.8
21.4	87.5°	29.2	33.1	33.1	29.2	29.2	27.3	25.3	23.4	21.4	21.4
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

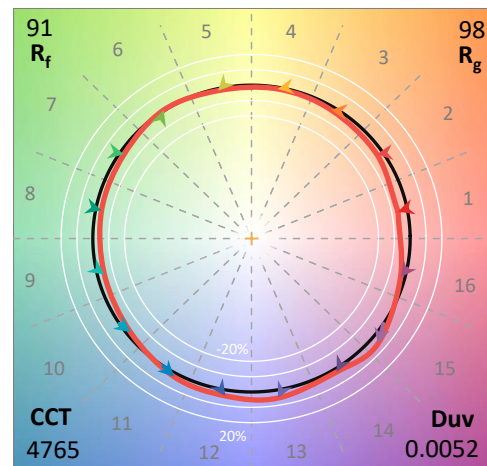
Test Information

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
 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

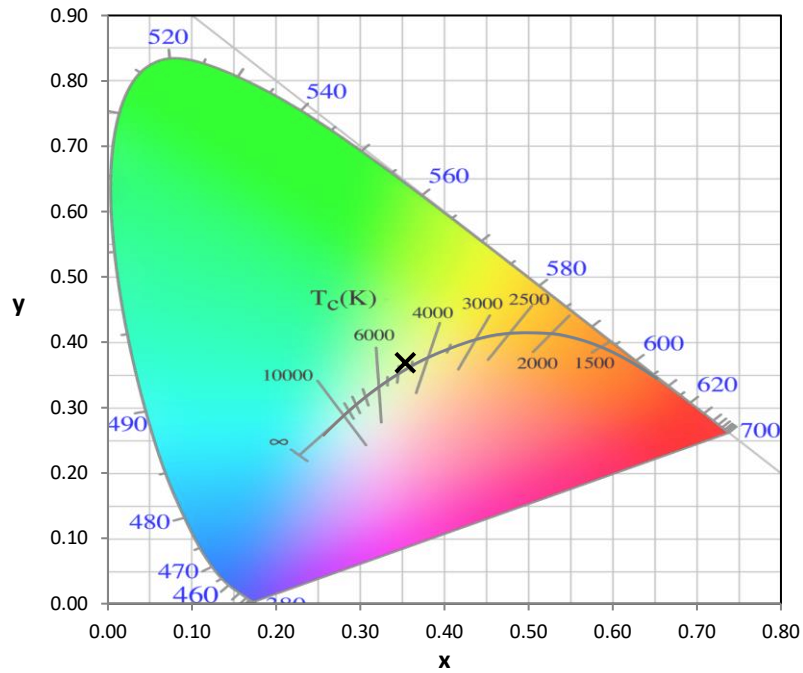
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-17

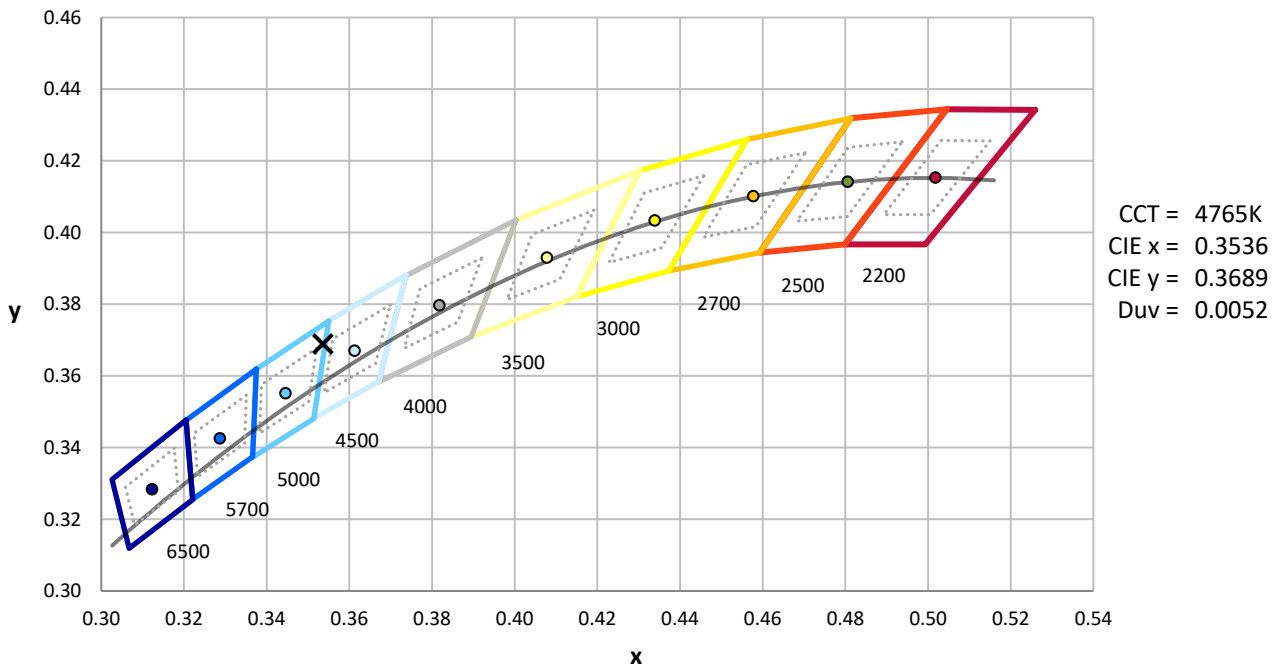
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



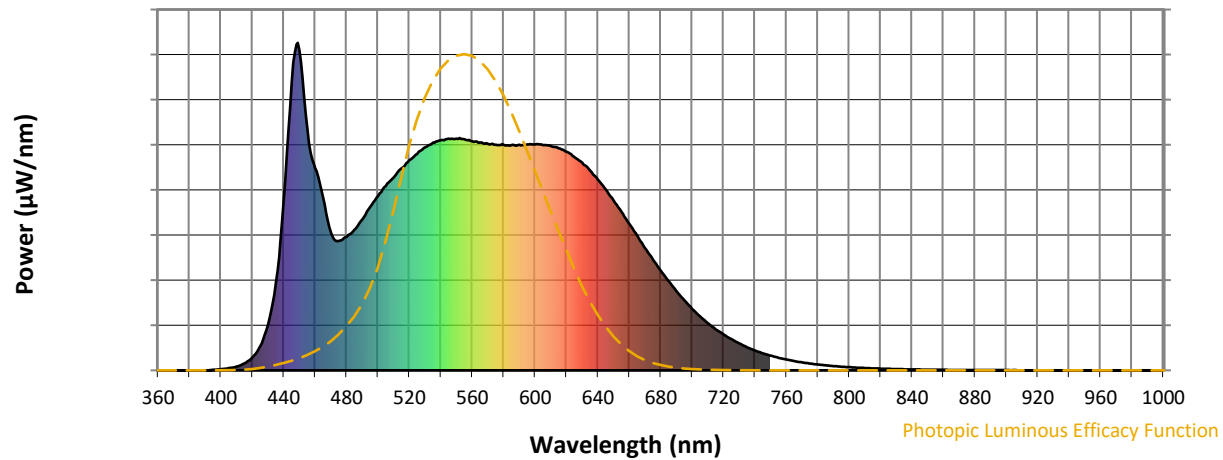
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-17

Photopic Flux vs. Wavelength

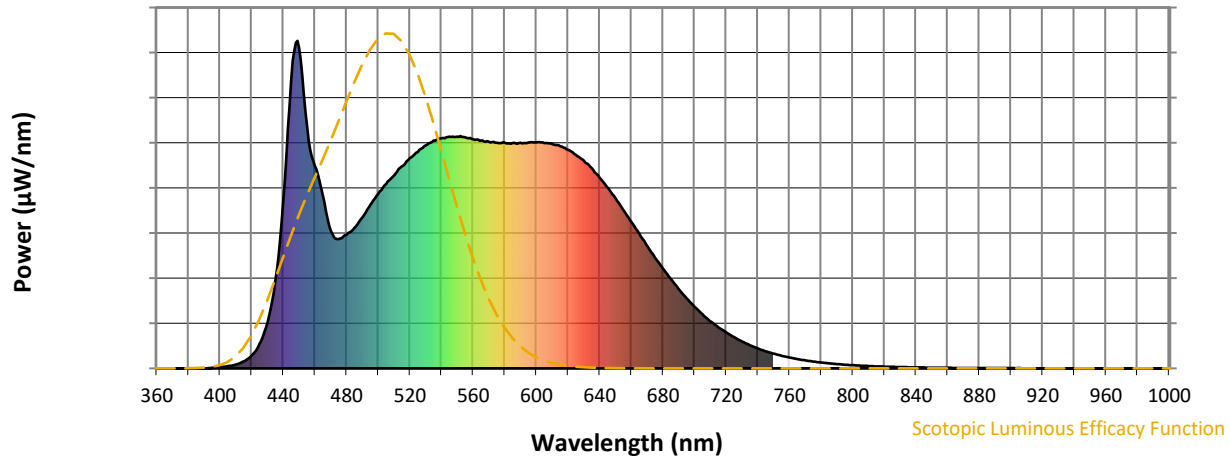


Photopic Lumens: NR

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



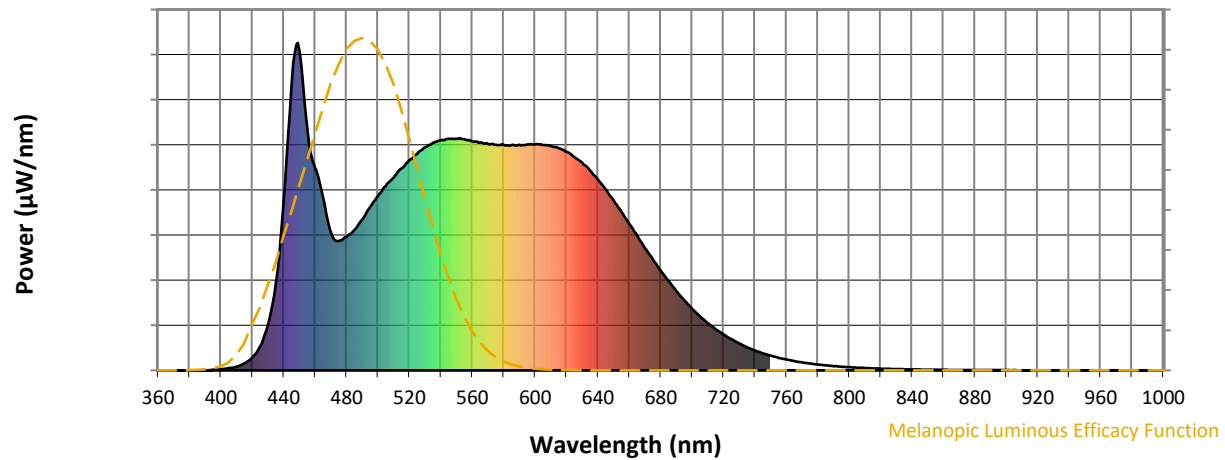
Scotopic Lumens: NR

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

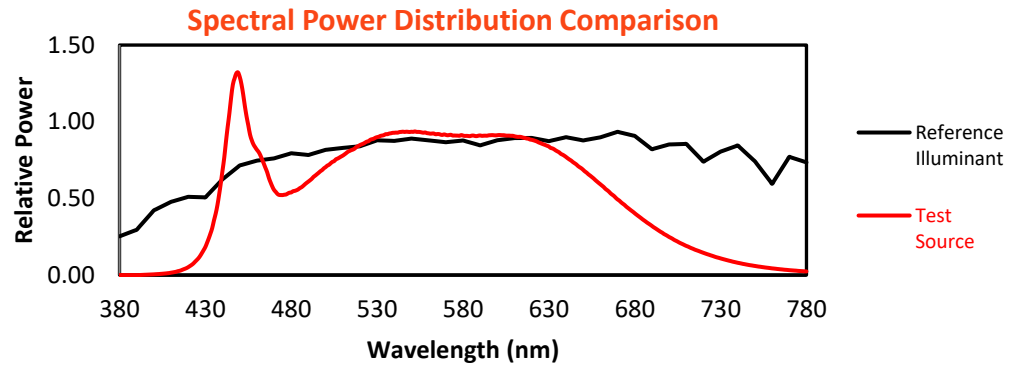
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	462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

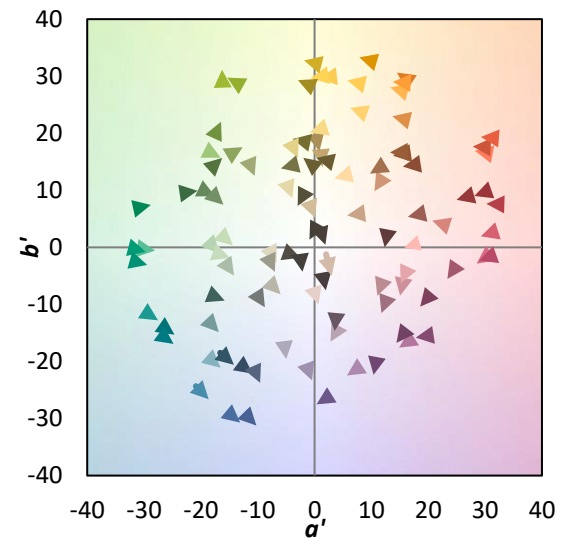
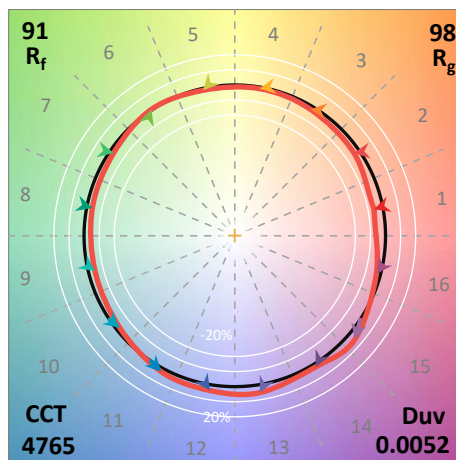
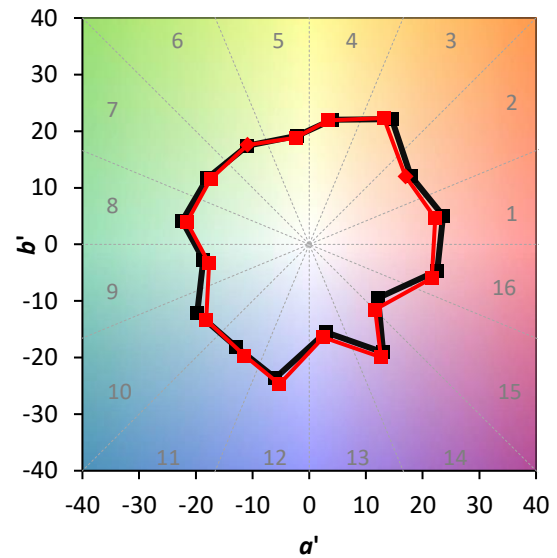
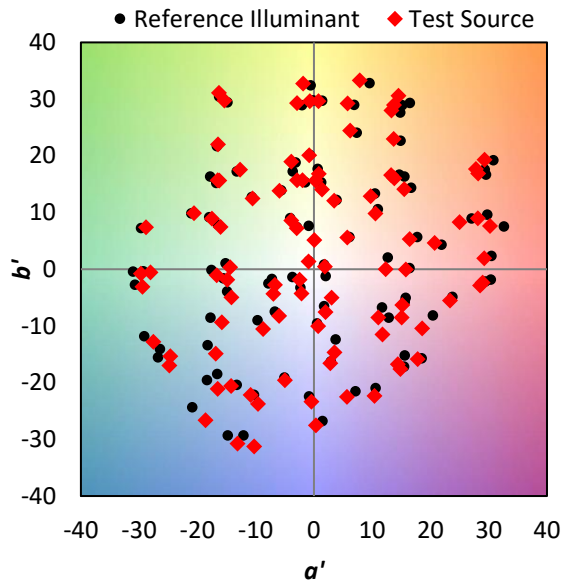
TM-30-18

Summary

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

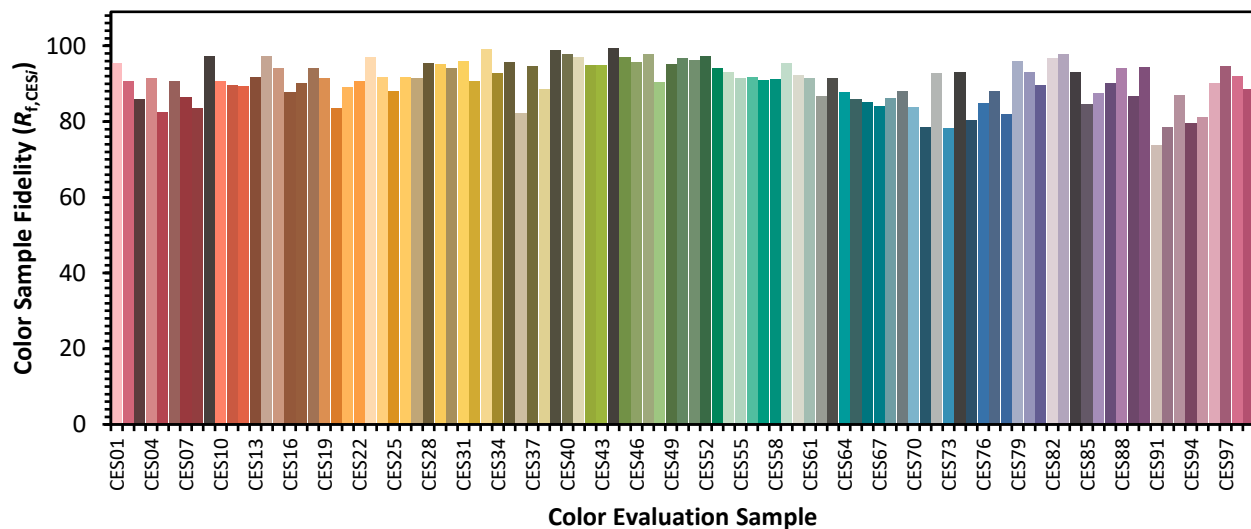


Color Vector Graphics

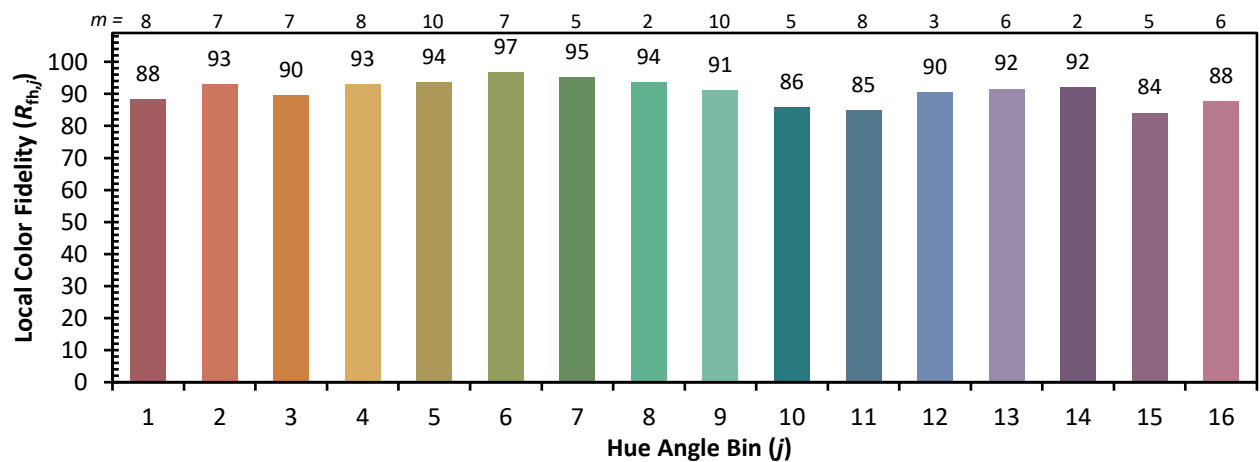
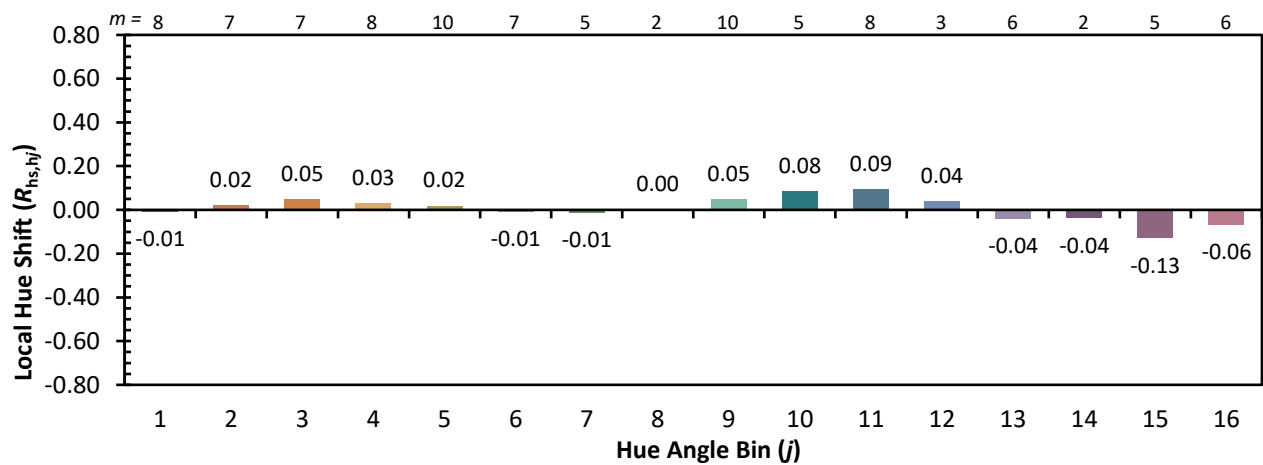
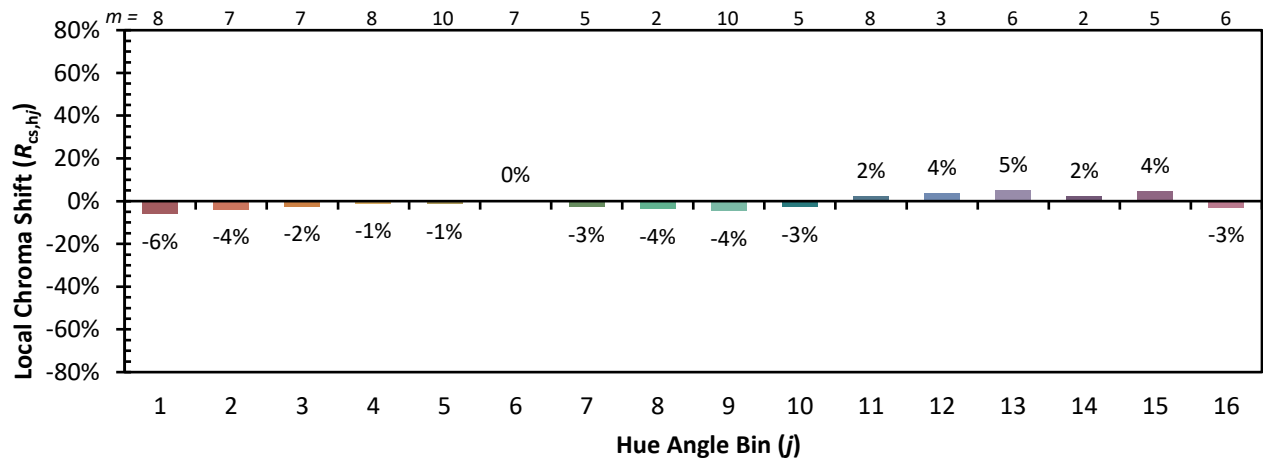


Individual Sample Fidelity Index ($R_{f,i}$)

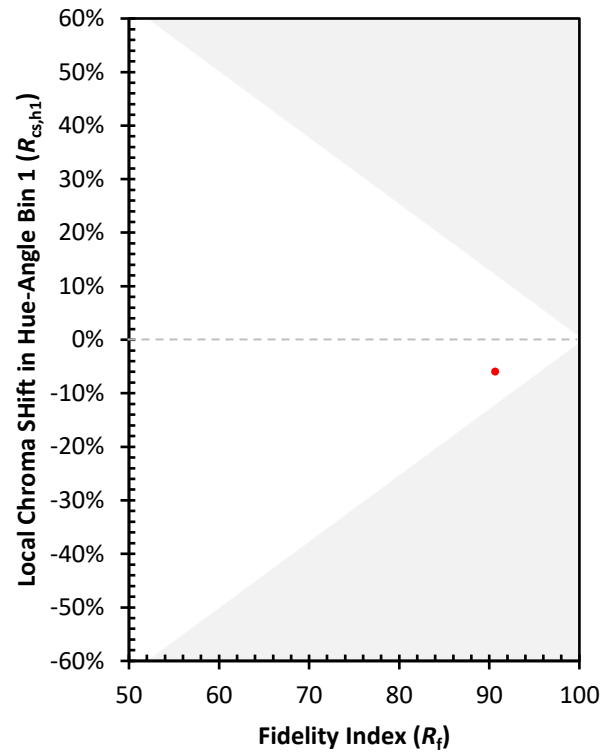
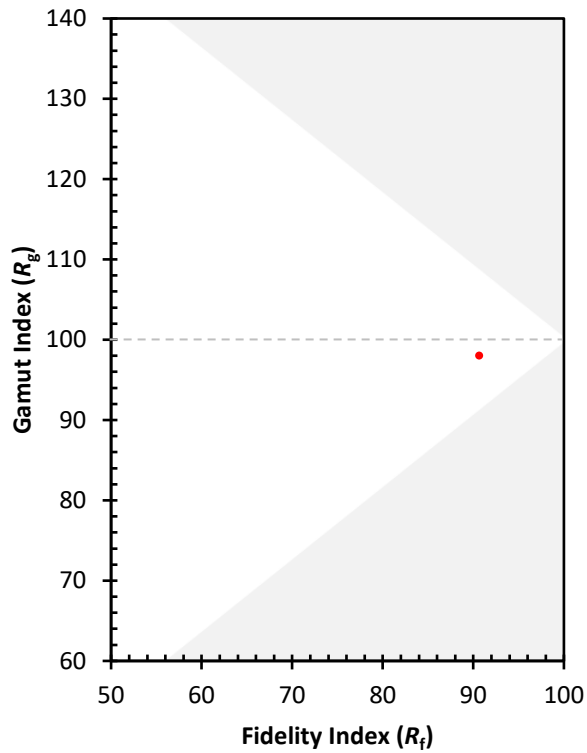
CES01 = 85	CES26 = 92	CES51 = 96	CES76 = 85
CES02 = 60	CES27 = 92	CES52 = 97	CES77 = 88
CES03 = 31	CES28 = 95	CES53 = 94	CES78 = 82
CES04 = 69	CES29 = 95	CES54 = 93	CES79 = 96
CES05 = 48	CES30 = 94	CES55 = 92	CES80 = 93
CES06 = 50	CES31 = 96	CES56 = 92	CES81 = 89
CES07 = 41	CES32 = 91	CES57 = 91	CES82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