

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: P1049642

Luminaire Tested: **GALN-SA1B-750-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049642
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-750-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 1xLight Square PACKAGE
70CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4178.1 lumens
Efficiency: N/A
Efficacy: 108.0 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

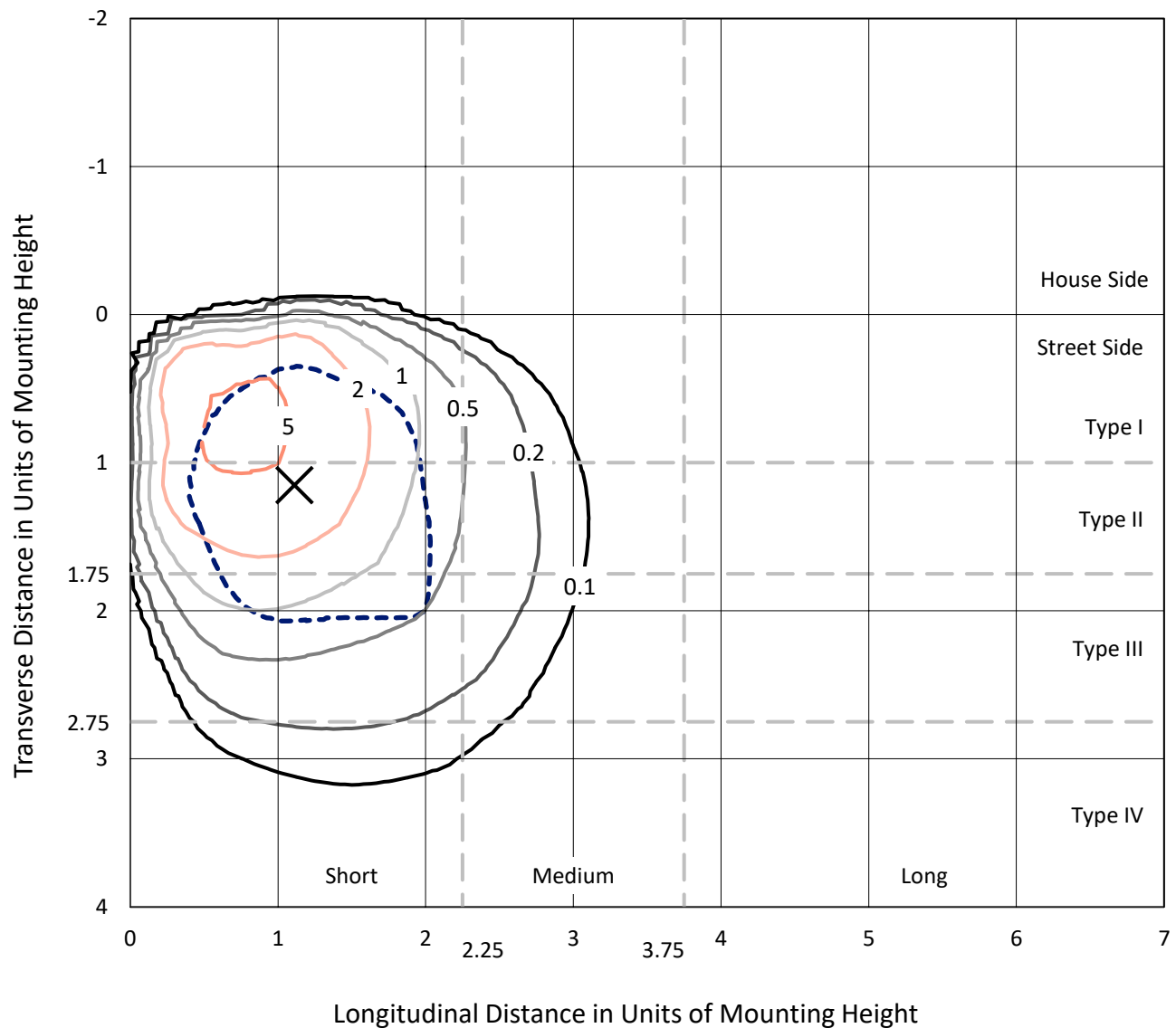
Input Watts (W): 38.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

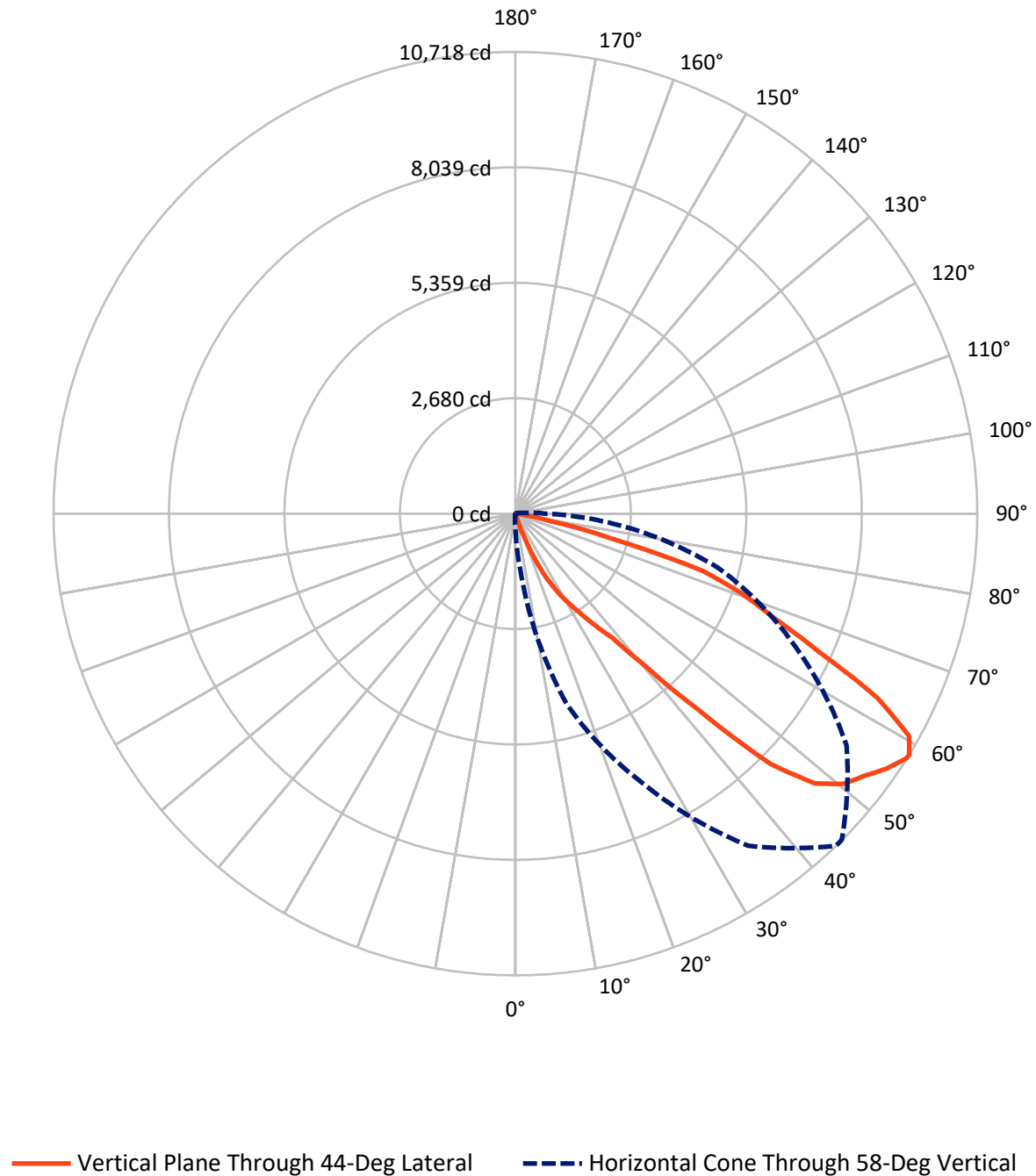
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.3 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	28.5	0.0	28.5
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	4149.5	0.0	4149.5
	% Fixture	99.3	0.0	99.3
Total	Lumens	4178.1	0.0	4178.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.0
10°-20°	9.2	0.2
20°-30°	99.0	2.4
30°-40°	292.7	7.0
40°-50°	872.4	20.9
50°-60°	1384.4	33.1
60°-70°	1154.7	27.6
70°-80°	356.1	8.5
80°-90°	7.9	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°	4178.1	100.0
0°-180°	4178.1	100.0



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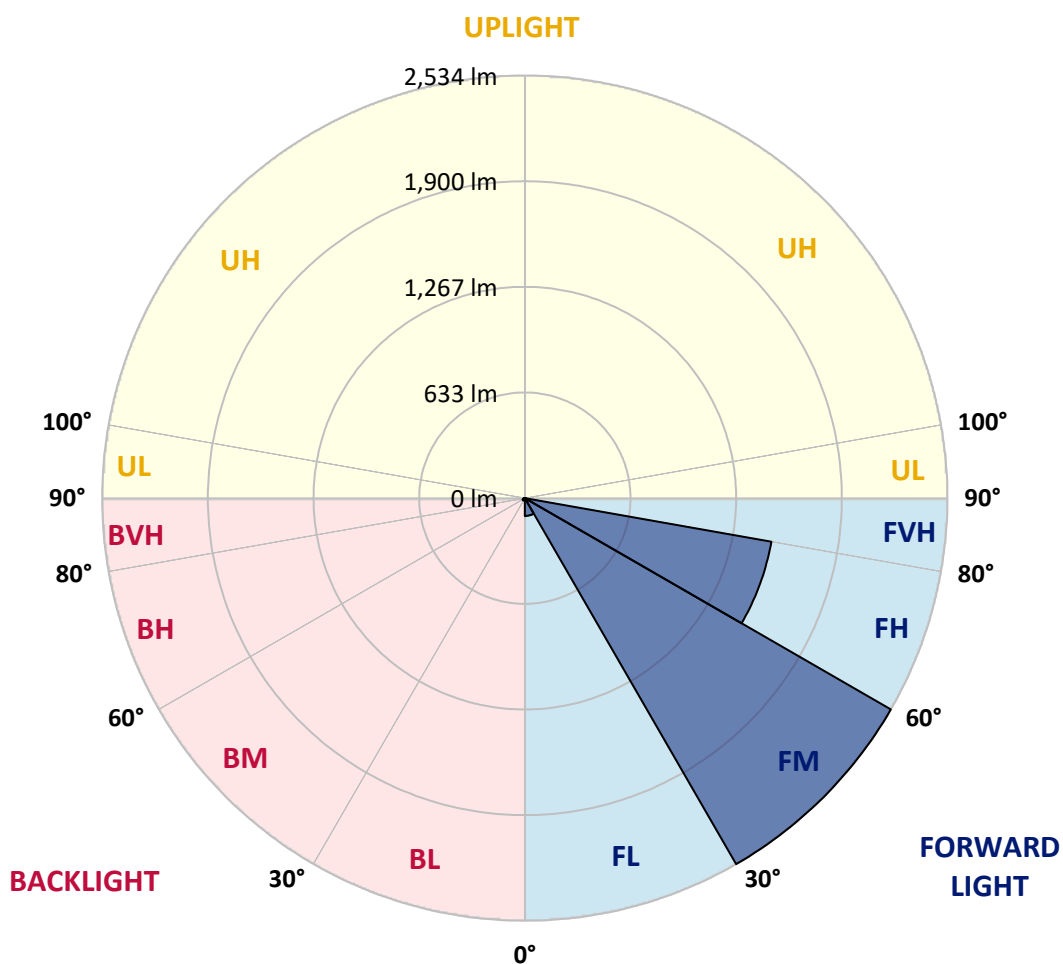
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	107.0	2.6			
FM	(30°-60°)	2533.9	60.6			
FH	(60°-80°)	1501.1	35.9			G1/1800
FVH	(80°-90°)	7.5	0.2			G0/10
BL	(0°-30°)	2.8	0.1	B0/110		
BM	(30°-60°)	15.6	0.4	B0/220		
BH	(60°-80°)	9.7	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°	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
2.5°	23.7	23.7	22.7	21.5	20.2	18.9	18.6	18.0	17.7	17.4
5°	24.6	24.6	24.3	23.4	22.1	21.1	21.1	20.2	19.6	18.9
7.5°	25.2	25.6	26.2	25.9	25.2	24.3	24.3	23.7	22.7	21.1
10°	26.2	27.1	28.4	29.0	29.4	29.4	29.0	28.7	27.1	24.9
12.5°	27.1	29.0	32.2	35.3	37.2	39.8	39.5	38.8	34.7	30.0
15°	29.0	31.9	38.5	47.7	61.9	70.7	74.2	71.0	57.4	40.4
17.5°	31.2	36.0	55.9	99.7	163.5	193.8	212.1	197.3	130.7	76.7
20°	33.5	43.9	103.8	258.5	424.2	523.3	550.8	507.8	326.0	146.1
22.5°	37.2	61.5	210.5	534.3	914.0	1062.7	1090.8	953.5	615.8	288.5
25°	45.1	89.3	363.0	870.8	1364.1	1615.0	1603.3	1423.4	998.9	460.8
27.5°	56.5	130.0	548.9	1237.2	1795.2	2016.5	2043.0	1820.5	1331.6	677.6
30°	72.9	180.2	748.3	1530.7	2140.8	2380.1	2384.5	2154.4	1629.2	867.9
32.5°	88.7	227.6	922.9	1814.5	2481.4	2743.7	2763.2	2480.1	1851.4	1066.2
35°	100.7	258.5	1099.6	2063.8	2824.8	3186.2	3184.9	2848.8	2114.6	1243.2
37.5°	101.6	289.4	1259.6	2318.8	3259.7	3664.3	3704.4	3333.9	2432.8	1462.3
40°	99.4	324.1	1462.3	2716.5	4043.4	4664.2	4699.5	4232.4	3071.0	1837.2
42.5°	101.9	384.4	1791.1	3451.0	5344.7	6236.3	6304.5	5813.4	4244.1	2602.3
45°	115.2	497.7	2480.1	4679.7	7199.6	8286.5	8263.8	7556.5	5609.2	3766.9
47.5°	159.1	775.2	3501.5	5875.5	8385.0	9353.0	9372.6	8508.1	6405.8	4662.3
50°	244.6	1186.1	4359.6	6507.7	8894.7	9865.9	9847.6	8848.7	6708.5	5103.2
52.5°	318.1	1483.4	4790.1	6729.6	8960.1	10119.3	10118.1	8938.3	6755.5	5141.1
55°	336.4	1505.8	4793.6	6741.6	9106.5	10451.0	10492.7	9158.9	6816.4	4975.7
57.5°	329.2	1333.2	4593.5	6811.0	9367.2	10707.6	10709.9	9372.6	6971.0	4874.4
58°	322.9	1306.0	4553.1	6850.5	9412.0	10718.4	10713.0	9382.4	7097.0	4870.6
60°	287.5	1134.0	4395.6	6951.2	9345.4	10498.1	10447.9	9168.7	7078.4	4831.8
62.5°	226.0	884.7	4240.6	6834.7	8631.5	9431.6	9452.4	8117.4	6452.8	4605.5
65°	179.9	659.3	3917.4	5995.2	7107.7	7745.3	7822.9	6600.8	5386.0	3899.8
67.5°	143.3	476.6	3286.2	4773.1	5624.3	6464.2	6520.7	5541.9	4172.8	2988.0
70°	116.5	322.2	2268.3	3490.7	4638.9	5583.3	5586.7	4603.9	3114.5	1957.8
72.5°	103.2	223.1	1316.8	2545.8	3761.5	4549.6	4457.8	3736.0	2393.6	1159.6
75°	89.3	148.0	645.8	1556.3	2280.7	2296.1	2331.2	1733.1	1196.5	551.4
77.5°	73.5	105.1	254.4	425.1	683.9	875.5	908.0	688.0	398.0	135.7
80°	50.5	49.9	68.5	130.4	195.7	245.2	228.8	177.1	104.2	52.1
82.5°	21.8	23.7	30.9	37.2	30.3	29.4	28.1	18.0	13.9	10.7
85°	6.9	6.3	6.6	6.6	5.4	4.1	4.1	1.9	0.0	0.0
87.5°	3.5	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°
18.3	0°	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
17.0	2.5°	16.7	16.7	16.1	15.5	15.1	14.5	14.2	13.9	13.6	13.3
18.3	5°	17.7	17.4	16.4	15.5	14.5	13.6	12.9	12.3	11.7	11.4
20.2	7.5°	19.3	18.6	16.7	15.1	13.9	12.6	12.0	11.0	10.4	9.5
22.4	10°	21.1	19.9	17.4	15.5	13.6	12.0	11.0	10.1	9.2	7.9
25.6	12.5°	23.7	21.5	18.3	15.1	12.9	11.0	10.1	8.8	7.9	6.9
29.7	15°	25.9	23.0	18.6	15.1	12.3	10.1	8.8	7.6	6.6	5.4
37.2	17.5°	29.0	24.3	18.3	14.2	11.4	8.8	7.6	6.6	5.0	3.2
55.2	20°	34.4	25.2	17.7	13.3	9.8	7.3	5.7	4.4	2.2	0.6
83.0	22.5°	42.9	27.8	17.0	12.0	8.5	5.7	3.8	1.6	0.0	0.0
126.2	25°	59.3	32.2	17.0	11.4	7.6	4.1	1.3	0.0	0.0	0.0
179.3	27.5°	78.9	38.2	17.0	9.8	6.0	2.2	0.0	0.0	0.0	0.0
244.3	30°	98.8	44.8	17.0	8.5	4.7	0.3	0.0	0.0	0.0	0.0
300.8	32.5°	117.7	50.5	17.4	7.3	3.2	0.0	0.0	0.0	0.0	0.0
379.1	35°	137.0	51.4	17.0	6.3	1.9	0.0	0.0	0.0	0.0	0.0
475.0	37.5°	161.6	49.6	16.1	5.7	0.9	0.0	0.0	0.0	0.0	0.0
624.9	40°	198.8	50.5	15.1	5.4	0.3	0.0	0.0	0.0	0.0	0.0
892.3	42.5°	267.6	54.6	13.9	5.4	0.0	0.0	0.0	0.0	0.0	0.0
1421.2	45°	462.7	73.2	12.6	5.7	0.0	0.0	0.0	0.0	0.0	0.0
2133.6	47.5°	765.4	131.6	12.3	5.7	0.0	0.0	0.0	0.0	0.0	0.0
2570.1	50°	976.8	165.7	12.9	6.0	0.0	0.0	0.0	0.0	0.0	0.0
2624.7	52.5°	975.3	184.6	13.6	6.3	1.3	0.0	0.0	0.0	0.0	0.0
2419.2	55°	867.0	188.1	14.5	6.9	4.1	0.0	0.0	0.0	0.0	0.0
2079.0	57.5°	724.7	171.7	16.7	8.5	7.6	0.0	0.0	0.0	0.0	0.0
2025.6	58°	699.4	164.1	17.4	8.8	8.2	0.0	0.0	0.0	0.0	0.0
1757.0	60°	573.2	133.8	22.1	11.0	11.0	0.0	0.0	0.0	0.0	0.0
1440.5	62.5°	395.8	116.8	25.2	14.2	11.4	0.0	0.0	0.0	0.0	0.0
1062.1	65°	280.0	105.4	27.5	15.1	9.2	0.0	0.0	0.0	0.0	0.0
754.6	67.5°	209.3	97.2	30.3	15.5	4.7	0.0	0.0	0.0	0.0	0.0
473.4	70°	160.3	91.2	37.2	16.4	1.3	0.0	0.0	0.0	0.0	0.0
282.2	72.5°	130.7	84.3	45.1	17.0	0.0	0.0	0.0	0.0	0.0	0.0
169.2	75°	108.3	76.1	43.6	18.6	0.0	0.0	0.0	0.0	0.0	0.0
90.3	77.5°	72.0	59.0	39.8	18.6	0.0	0.0	0.0	0.0	0.0	0.0
32.2	80°	25.2	23.4	30.9	16.4	0.0	0.0	0.0	0.0	0.0	0.0
6.6	82.5°	3.8	3.2	4.4	5.7	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°
18.3	0°	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
12.9	2.5°	12.9	12.9	12.6	12.9	12.9	13.6	15.1	17.4	19.9	20.8
11.0	5°	10.7	10.4	10.1	10.1	10.1	11.0	12.3	14.8	17.7	18.9
9.2	7.5°	8.8	8.5	8.2	7.9	7.9	8.5	10.1	12.9	15.8	17.0
7.6	10°	7.3	6.6	6.3	6.0	6.0	6.6	8.2	11.0	14.2	15.5
6.3	12.5°	6.0	5.0	4.4	4.1	3.8	4.7	6.3	8.8	12.3	13.9
4.7	15°	4.1	3.2	2.2	1.9	1.6	2.5	4.1	6.9	10.4	12.3
2.5	17.5°	2.2	0.9	0.3	0.0	0.0	0.6	1.9	5.0	8.5	10.1
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	6.3	7.9
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.8	5.4
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	1.3	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°
18.3	0°	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
21.8	2.5°	22.4	22.1	21.5	20.8	20.8	20.8	21.8	22.7	23.7	23.7
19.6	5°	20.8	20.8	20.5	19.9	19.9	20.2	21.5	23.0	24.3	24.6
18.0	7.5°	19.3	19.9	19.3	18.9	19.3	19.6	20.8	22.7	24.6	25.2
16.7	10°	18.3	18.6	18.6	18.3	18.3	18.9	20.2	22.7	25.2	26.2
15.1	12.5°	17.0	17.7	17.4	17.4	17.4	18.0	19.6	22.4	25.9	27.1
13.6	15°	15.8	16.7	16.7	16.4	16.4	16.7	18.9	22.1	26.8	29.0
11.7	17.5°	14.5	15.5	15.8	15.1	15.1	15.8	18.0	22.1	27.5	31.2
9.5	20°	12.0	13.6	14.5	13.6	13.6	14.2	16.4	20.8	27.8	33.5
6.9	22.5°	9.5	11.0	12.3	12.0	12.0	12.3	15.1	19.9	28.1	37.2
4.1	25°	6.9	8.5	9.5	10.1	10.1	11.0	13.9	19.3	29.4	45.1
1.9	27.5°	4.1	6.0	7.3	7.9	8.2	9.5	12.9	18.6	31.6	56.5
0.0	30°	1.9	3.5	5.0	6.3	6.3	8.5	12.0	18.0	34.4	72.9
0.0	32.5°	0.0	1.6	2.5	4.4	4.7	6.9	11.0	17.4	38.5	88.7
0.0	35°	0.0	0.0	1.3	3.5	3.5	5.7	10.1	16.7	44.8	100.7
0.0	37.5°	0.0	0.0	0.0	2.5	2.8	5.0	9.8	16.4	46.1	101.6
0.0	40°	0.0	0.0	0.0	1.9	2.2	4.7	9.8	16.7	41.7	99.4
0.0	42.5°	0.0	0.0	0.0	1.3	1.6	4.7	9.8	17.4	37.6	101.9
0.0	45°	0.0	0.0	0.0	0.9	1.3	5.0	9.5	17.0	35.3	115.2
0.0	47.5°	0.0	0.0	0.0	1.3	1.9	5.0	9.2	16.7	35.7	159.1
0.0	50°	0.0	0.0	0.0	1.6	2.2	5.0	9.5	16.1	39.1	244.6
0.0	52.5°	0.0	0.0	0.0	1.3	1.9	5.7	10.4	15.8	42.6	318.1
0.0	55°	0.0	0.0	0.0	0.3	0.9	7.3	11.4	15.8	48.0	336.4
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	8.2	12.9	16.7	56.8	329.2
0.0	58°	0.0	0.0	0.0	0.0	0.0	8.2	13.3	16.7	57.4	322.9
0.0	60°	0.0	0.0	0.0	0.0	0.0	8.2	14.5	18.6	61.9	287.5
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	6.9	17.4	23.4	64.4	226.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	5.7	20.5	25.6	66.3	179.9
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	5.4	21.1	25.9	67.2	143.3
0.0	70°	0.0	0.0	0.0	0.0	0.0	5.7	20.8	27.8	70.4	116.5
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	6.3	18.9	30.6	70.4	103.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	6.6	17.7	34.4	64.1	89.3
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	6.3	17.4	40.1	57.1	73.5
0.0	80°	0.6	0.9	0.9	0.6	0.6	5.4	17.0	40.7	48.6	50.5
0.3	82.5°	1.9	2.5	2.2	1.6	1.6	4.7	15.1	34.1	25.2	21.8
1.9	85°	3.5	4.1	4.1	3.5	3.5	4.4	9.5	12.3	8.5	6.9
3.5	87.5°	4.7	5.4	5.4	4.7	4.7	4.4	4.1	3.8	3.5	3.5
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: SP1-2407-184-6

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-750-U-5WQ

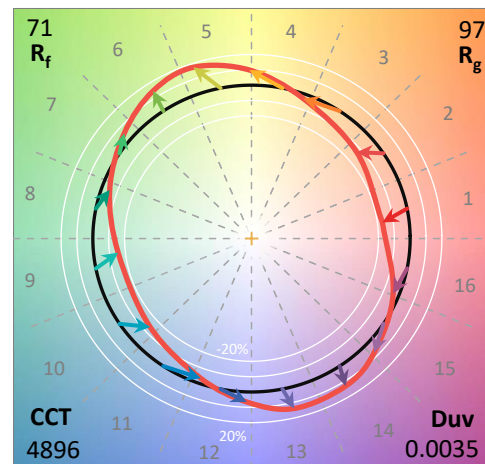
Data in this report applies to families of products including GSS-SB1A-750-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-6
 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-750-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K):	4896	CRI (Ra):	70.2		
CIE u':	0.2101	R1:	68.1	R9:	-35.1
CIE v':	0.4901	R2:	73.9	R10:	39.3
Duv:	0.0035	R3:	79.4	R11:	71.1
CIE x:	0.3489	R4:	72.1	R12:	43.8
CIE y:	0.3618	R5:	69.2	R13:	68.1
CIE z:	0.2893	R6:	65.7	R14:	88.4
Peak Wavelength (nm):	443	R7:	78.1	R15:	59.7
Dominant Wavelength (nm):	570	R8:	55.3		
Purity:	13.25435				
Rf:	70.7				
Rg:	96.8				



Test Conditions

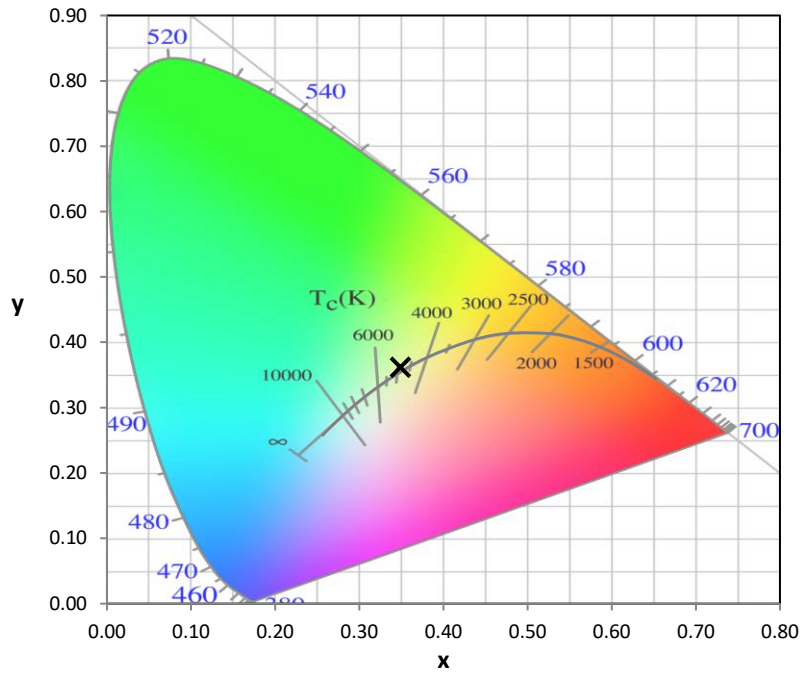
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-6

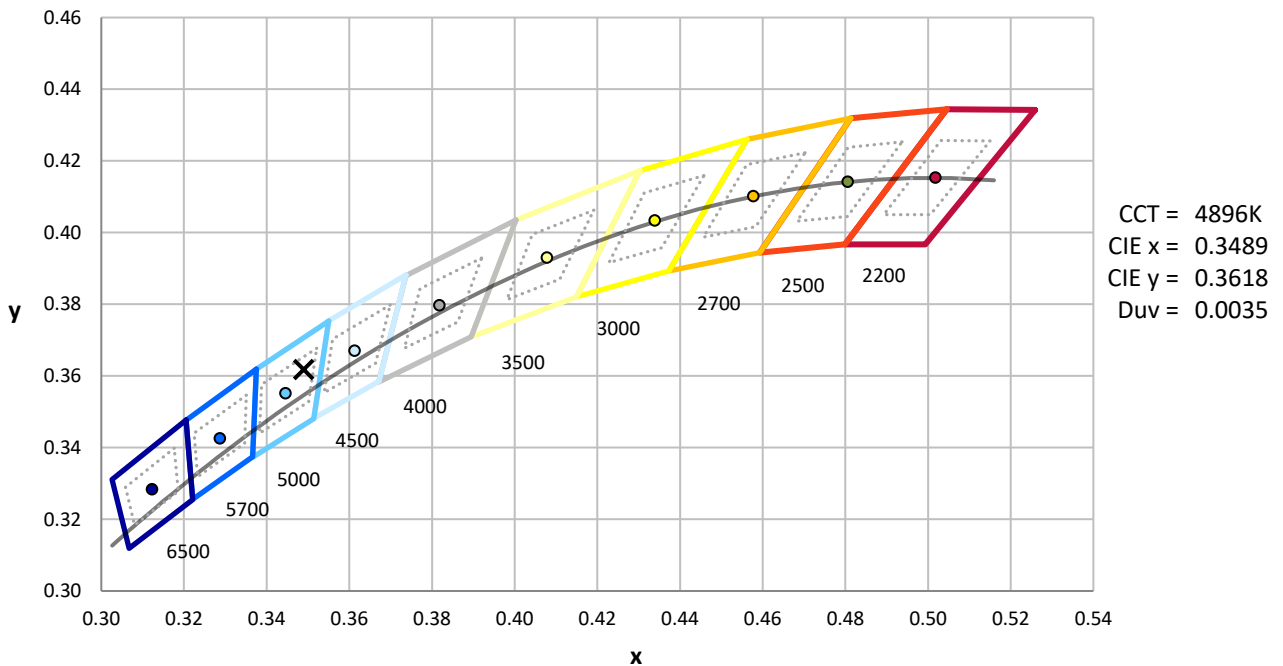
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



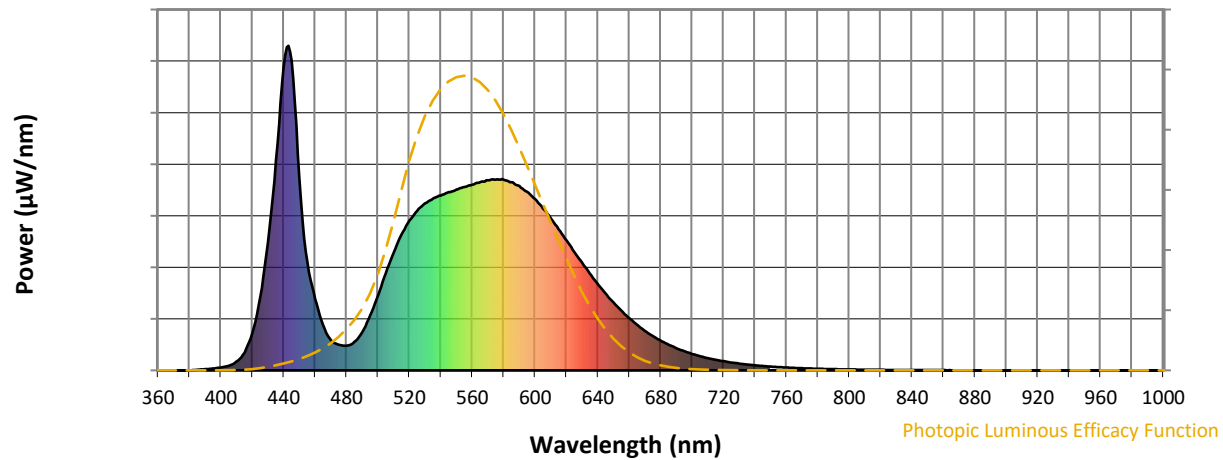
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-6

Photopic Flux vs. Wavelength

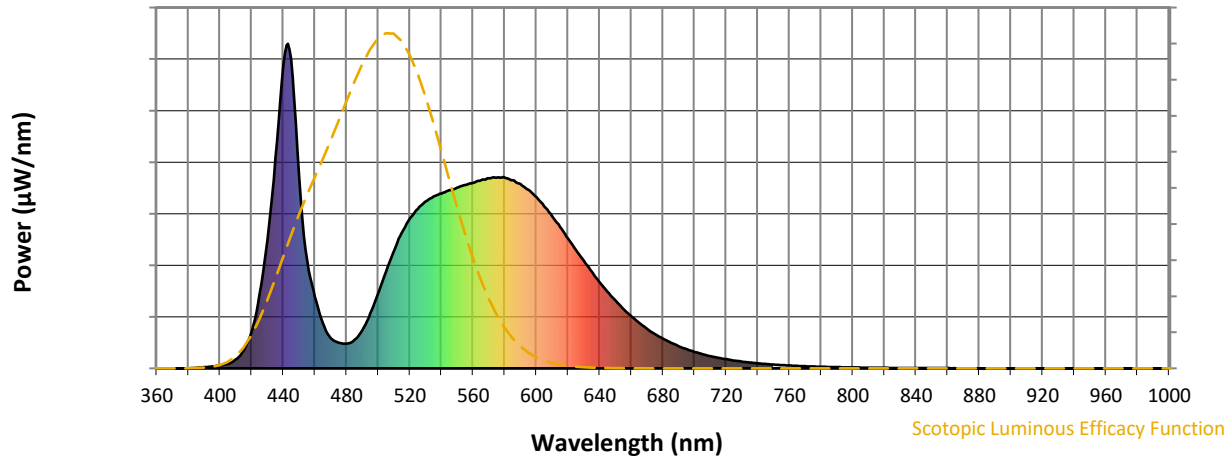


Photopic Lumens: NR

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	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-6

Scotopic Flux vs. Wavelength



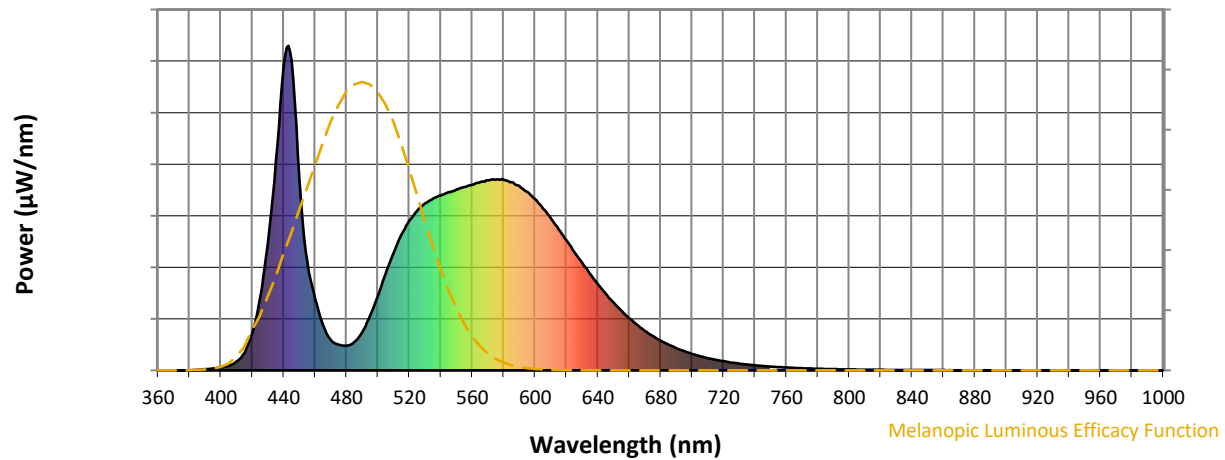
Scotopic Lumens: NR

S/P: 1.7

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	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.37

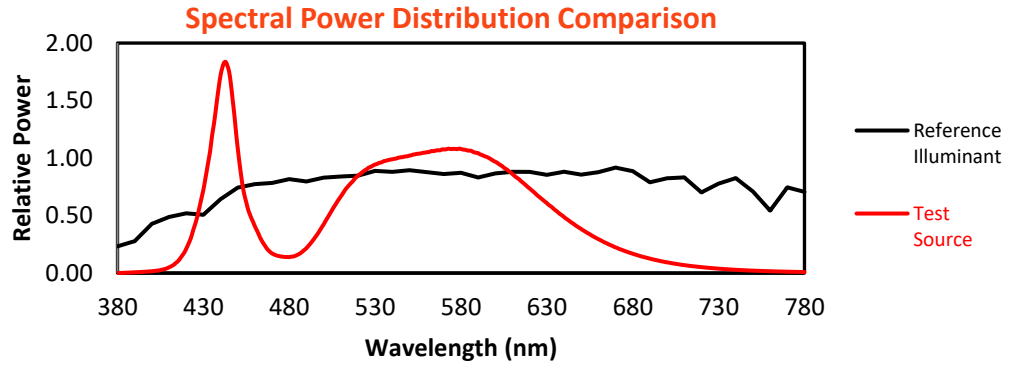
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

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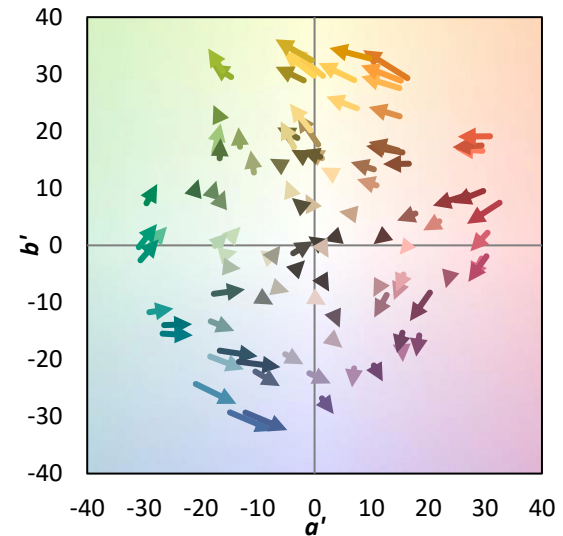
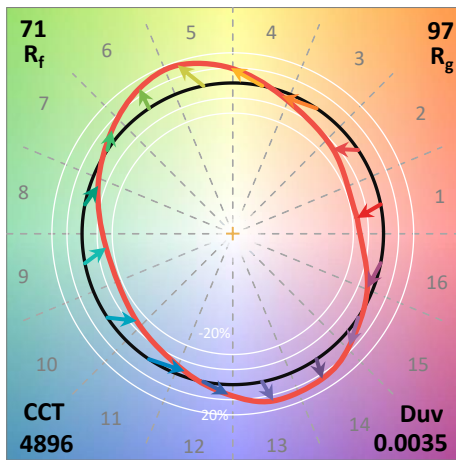
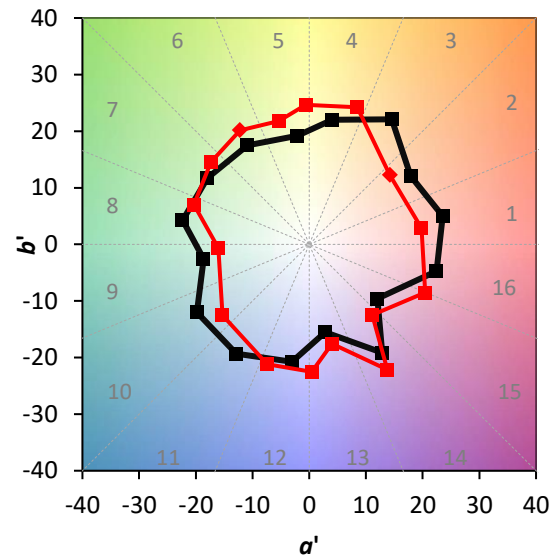
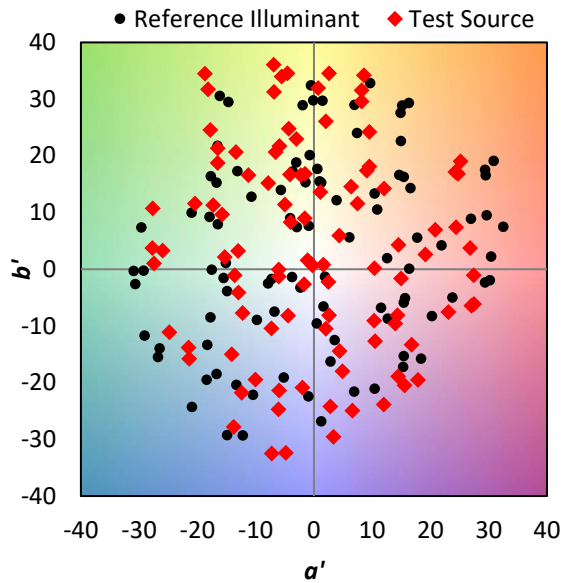
TM-30-18

Summary

$R_f = 70.7$
 $R_g = 96.8$
 $\text{CIE } R_a = 70.2$
 $R_g = -35.1$

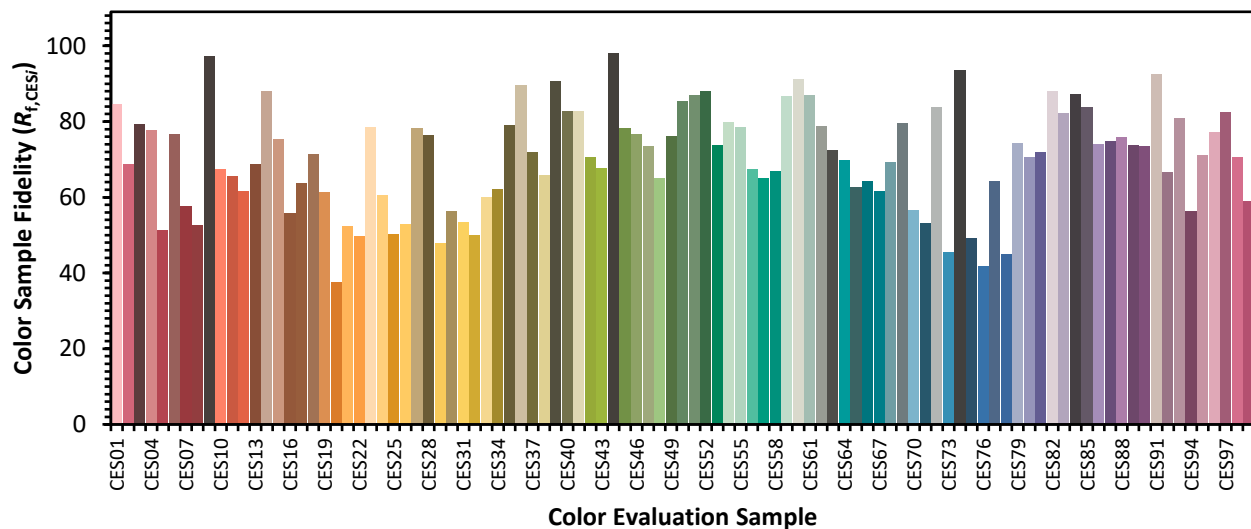


Color Vector Graphics

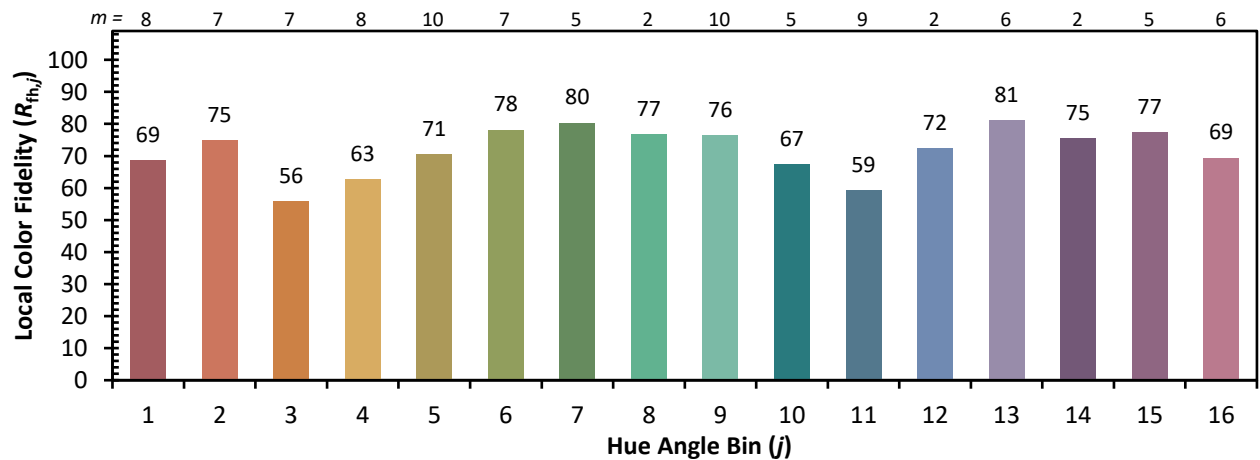
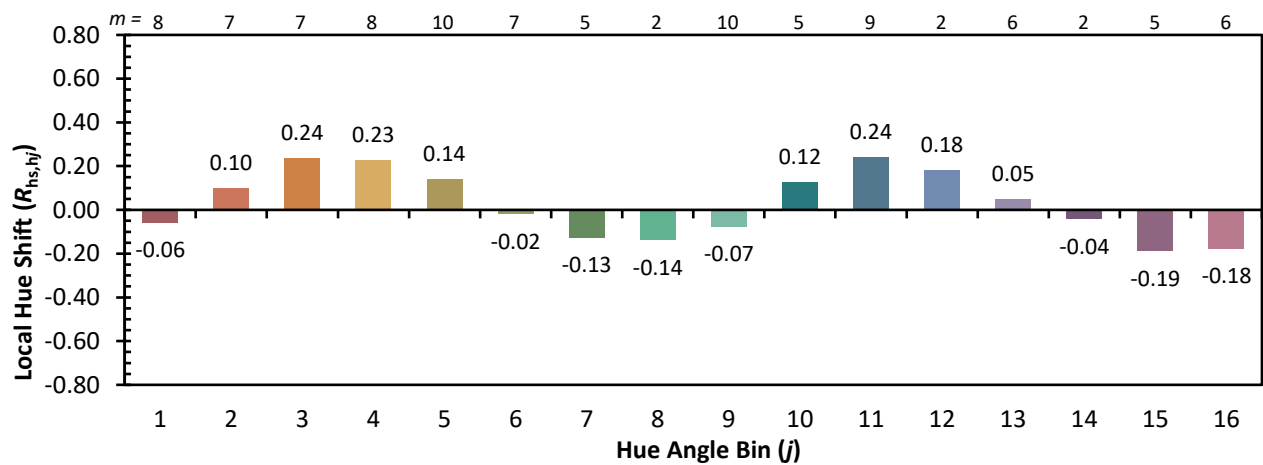
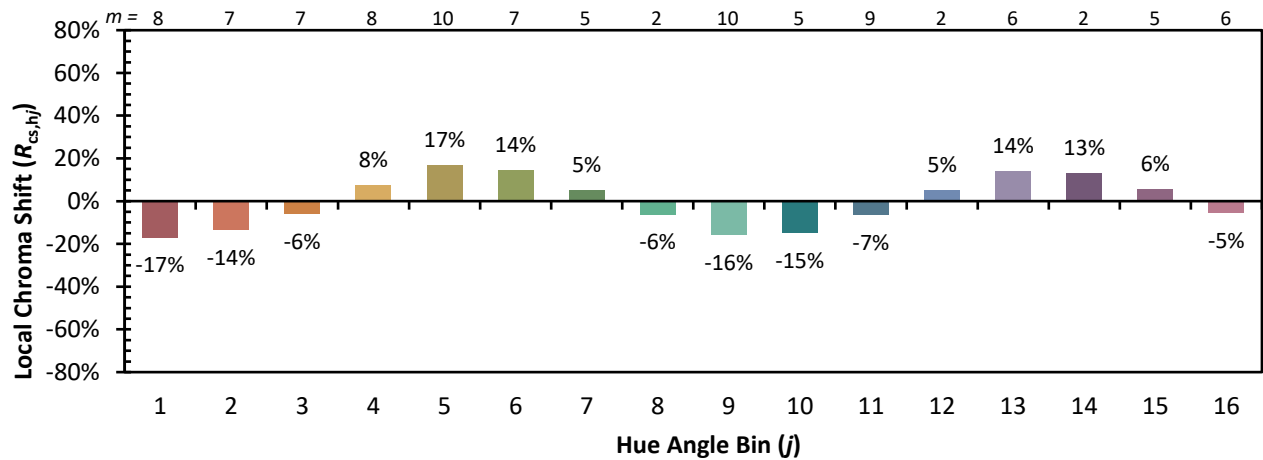


Individual Sample Fidelity Index ($R_{f,i}$)

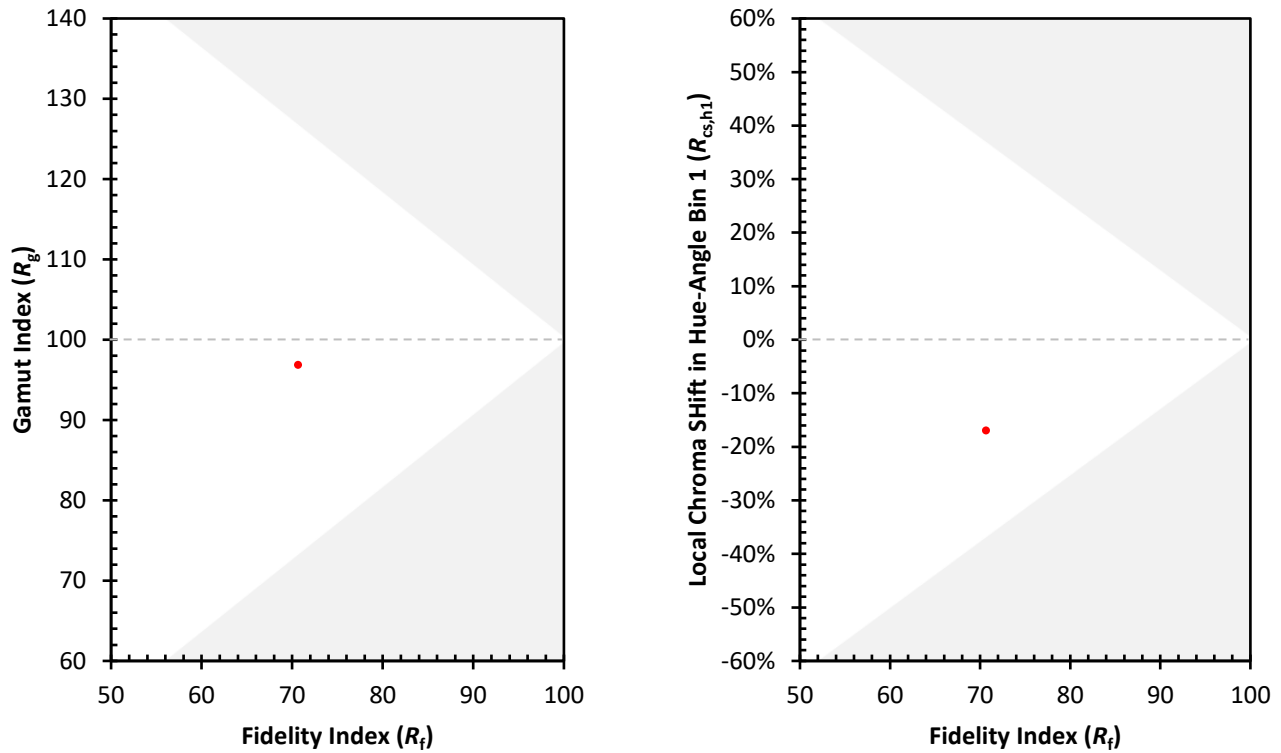
CES01 = 85	CES26 = 53	CES51 = 87	CES76 = 42
CES02 = 59	CES27 = 78	CES52 = 88	CES77 = 64
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 45
CES04 = 69	CES29 = 48	CES54 = 80	CES79 = 74
CES05 = 46	CES30 = 56	CES55 = 79	CES80 = 71
CES06 = 50	CES31 = 54	CES56 = 68	CES81 = 72
CES07 = 39	CES32 = 50	CES57 = 65	CES82 = 88
CES08 = 38	CES33 = 60	CES58 = 67	CES83 = 82
CES09 = 29	CES34 = 62	CES59 = 87	CES84 = 87
CES10 = 72	CES35 = 79	CES60 = 91	CES85 = 84
CES11 = 56	CES36 = 90	CES61 = 87	CES86 = 74
CES12 = 61	CES37 = 72	CES62 = 79	CES87 = 75
CES13 = 41	CES38 = 66	CES63 = 72	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 70	CES89 = 74
CES15 = 70	CES40 = 83	CES65 = 63	CES90 = 73
CES16 = 46	CES41 = 83	CES66 = 64	CES91 = 92
CES17 = 49	CES42 = 70	CES67 = 62	CES92 = 67
CES18 = 55	CES43 = 68	CES68 = 69	CES93 = 81
CES19 = 71	CES44 = 98	CES69 = 80	CES94 = 56
CES20 = 64	CES45 = 78	CES70 = 56	CES95 = 71
CES21 = 85	CES46 = 77	CES71 = 53	CES96 = 77
CES22 = 77	CES47 = 73	CES72 = 84	CES97 = 82
CES23 = 91	CES48 = 65	CES73 = 46	CES98 = 71
CES24 = 90	CES49 = 76	CES74 = 94	CES99 = 59
CES25 = 71	CES50 = 85	CES75 = 49	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)