

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: P1049647

Luminaire Tested: **GALN-SA2C-750-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049647
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-750-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 2xLight Square PACKAGE
70CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10403.2 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

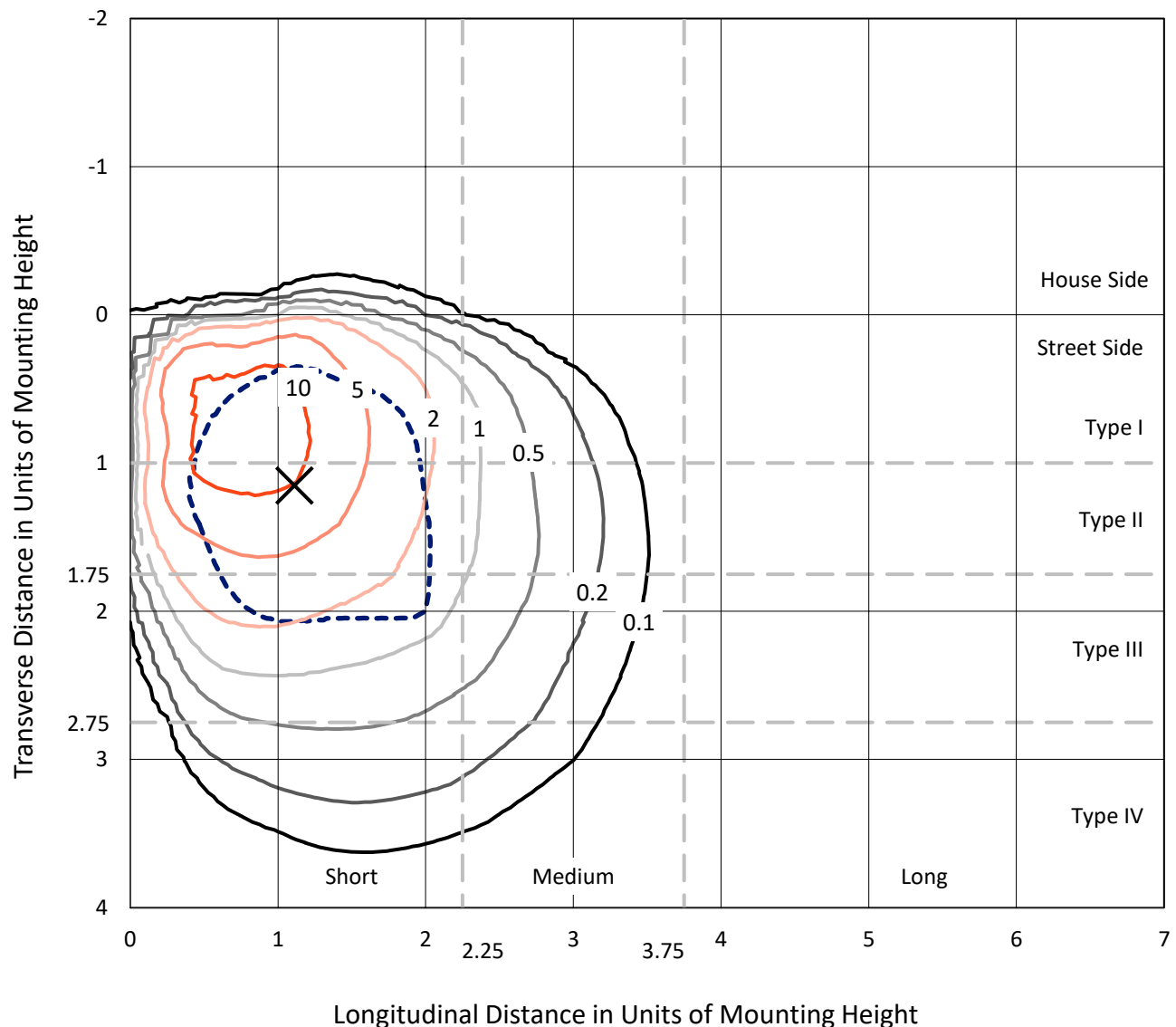
Input Watts (W): 96.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

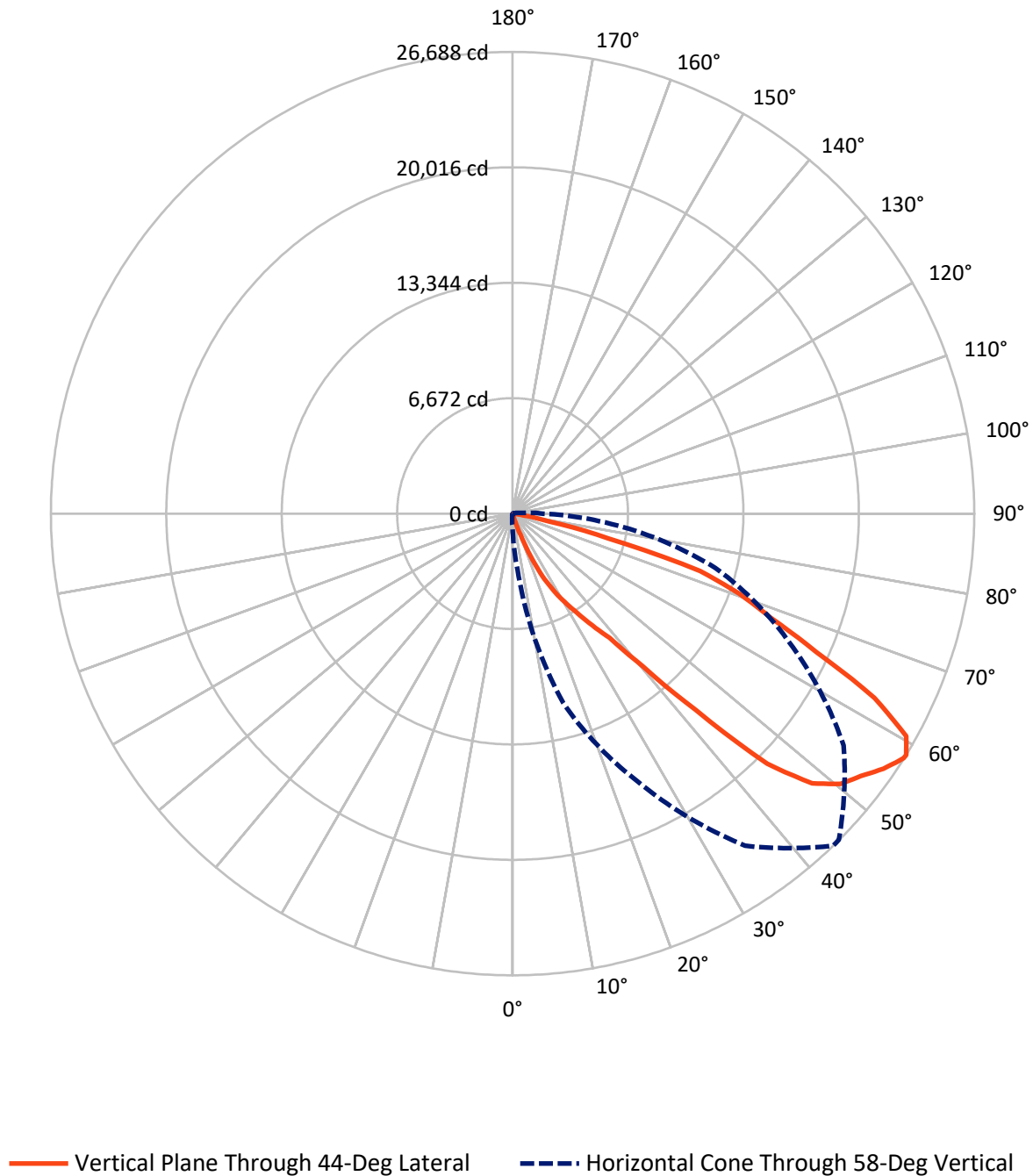
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 18.1 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	71.0	0.0	71.0
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	10332.2	0.0	10332.2
	% Fixture	99.3	0.0	99.3
Total	Lumens	10403.2	0.0	10403.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.1	0.0
10°-20°	22.8	0.2
20°-30°	246.5	2.4
30°-40°	728.8	7.0
40°-50°	2172.4	20.9
50°-60°	3447.0	33.1
60°-70°	2875.2	27.6
70°-80°	886.8	8.5
80°-90°	19.7	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°	10403.2	100.0
0°-180°	10403.2	100.0

Coefficient of Utilization



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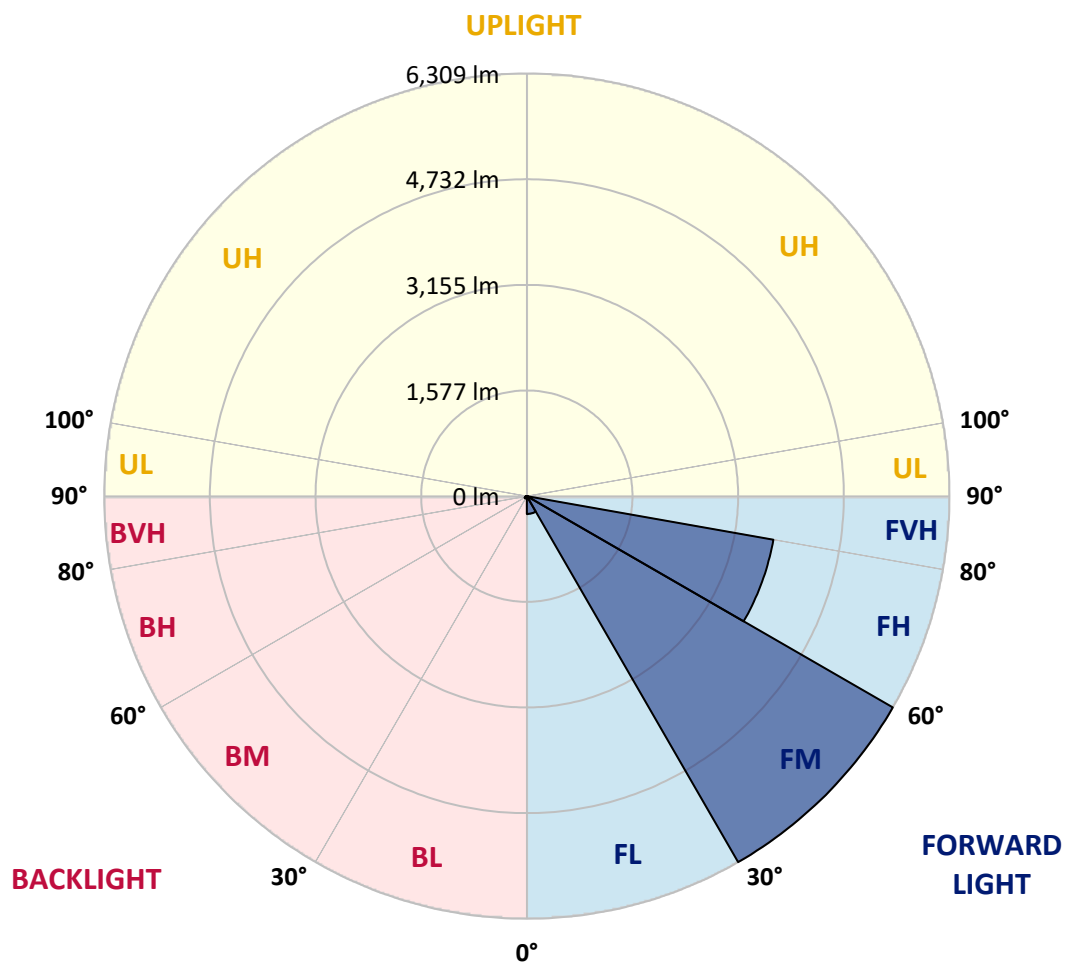
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	266.4	2.6			
FM	(30°-60°)	6309.3	60.6			
FH	(60°-80°)	3737.7	35.9			G2/5000
FVH	(80°-90°)	18.7	0.2			G1/100
BL	(0°-30°)	6.9	0.1	B0/110		
BM	(30°-60°)	38.9	0.4	B0/220		
BH	(60°-80°)	24.3	0.2	B0/110		G0/110
BVH	(80°-90°)	1.0	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°	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
2.5°	58.9	58.9	56.6	53.4	50.3	47.2	46.4	44.8	44.0	43.2
5°	61.3	61.3	60.5	58.2	55.0	52.7	52.7	50.3	48.7	47.2
7.5°	62.9	63.7	65.2	64.4	62.9	60.5	60.5	58.9	56.6	52.7
10°	65.2	67.6	70.7	72.3	73.1	73.1	72.3	71.5	67.6	62.1
12.5°	67.6	72.3	80.2	88.0	92.7	99.0	98.2	96.7	86.4	74.7
15°	72.3	79.4	95.9	118.7	154.0	176.0	184.7	176.8	143.0	100.6
17.5°	77.8	89.6	139.1	248.3	407.1	482.5	528.1	491.2	325.4	191.0
20°	83.3	109.2	258.6	643.6	1056.2	1303.0	1371.4	1264.5	811.8	363.9
22.5°	92.7	153.2	524.2	1330.5	2275.9	2646.0	2716.0	2374.1	1533.2	718.3
25°	112.4	222.4	903.8	2168.2	3396.5	4021.3	3992.2	3544.3	2487.3	1147.4
27.5°	140.7	323.8	1366.6	3080.6	4470.1	5021.0	5087.0	4532.9	3315.6	1687.3
30°	181.5	448.7	1863.3	3811.5	5330.6	5926.3	5937.3	5364.4	4056.7	2161.2
32.5°	220.8	566.6	2297.9	4518.0	6178.5	6831.6	6880.3	6175.4	4609.9	2654.7
35°	250.7	643.6	2738.0	5138.8	7033.6	7933.4	7930.3	7093.3	5265.4	3095.6
37.5°	253.1	720.6	3136.4	5773.8	8116.5	9124.0	9223.8	8301.2	6057.5	3641.0
40°	247.6	807.1	3641.0	6764.0	10067.8	11613.7	11701.7	10538.6	7646.6	4574.6
42.5°	253.8	957.2	4459.8	8592.8	13308.0	15528.1	15697.8	14475.0	10567.7	6479.5
45°	286.8	1239.3	6175.4	11652.2	17926.6	20633.1	20576.6	18815.4	13966.6	9379.4
47.5°	396.1	1930.1	8718.5	14629.8	20878.3	23288.6	23337.3	21184.8	15950.1	11608.9
50°	609.1	2953.3	10855.3	16203.9	22147.5	24565.7	24520.1	22032.8	16703.8	12706.8
52.5°	792.2	3693.6	11927.2	16756.4	22310.2	25196.7	25193.6	22256.0	16820.9	12801.1
55°	837.7	3749.4	11935.9	16786.3	22674.8	26022.7	26126.4	22805.3	16972.5	12389.3
57.5°	819.7	3319.5	11437.6	16959.2	23324.0	26661.6	26667.1	23337.3	17357.6	12137.0
58°	803.9	3251.9	11337.0	17057.4	23435.6	26688.3	26674.9	23361.7	17671.2	12127.6
60°	715.9	2823.6	10944.9	17308.1	23269.7	26139.8	26014.8	22829.7	17624.8	12031.0
62.5°	562.7	2202.8	10559.0	17018.1	21492.1	23484.3	23536.2	20211.9	16067.2	11467.5
65°	447.9	1641.7	9754.3	14927.7	17697.9	19285.4	19478.7	16435.8	13410.9	9710.3
67.5°	356.8	1186.7	8182.5	11884.8	14004.3	16095.5	16236.2	13799.2	10390.0	7439.9
70°	290.0	802.4	5648.1	8691.8	11550.8	13902.1	13910.8	11463.6	7755.0	4874.8
72.5°	257.0	555.6	3278.7	6338.9	9366.1	11328.4	11099.7	9302.4	5960.1	2887.3
75°	222.4	368.6	1607.9	3875.1	5678.7	5717.2	5804.5	4315.2	2979.3	1372.9
77.5°	183.1	261.7	633.4	1058.6	1703.0	2180.0	2261.0	1713.2	991.0	337.9
80°	125.7	124.2	170.5	324.6	487.2	610.6	569.8	440.9	259.3	129.7
82.5°	54.2	58.9	77.0	92.7	75.4	73.1	69.9	44.8	34.6	26.7
85°	17.3	15.7	16.5	16.5	13.4	10.2	10.2	4.7	0.0	0.0
87.5°	8.6	7.1	7.1	6.3	3.9	1.6	0.8	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°
45.6	0°	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
42.4	2.5°	41.7	41.7	40.1	38.5	37.7	36.2	35.4	34.6	33.8	33.0
45.6	5°	44.0	43.2	40.9	38.5	36.2	33.8	32.2	30.6	29.1	28.3
50.3	7.5°	47.9	46.4	41.7	37.7	34.6	31.4	29.9	27.5	25.9	23.6
55.8	10°	52.7	49.5	43.2	38.5	33.8	29.9	27.5	25.1	22.8	19.6
63.7	12.5°	58.9	53.4	45.6	37.7	32.2	27.5	25.1	22.0	19.6	17.3
73.9	15°	64.4	57.4	46.4	37.7	30.6	25.1	22.0	18.9	16.5	13.4
92.7	17.5°	72.3	60.5	45.6	35.4	28.3	22.0	18.9	16.5	12.6	7.9
137.5	20°	85.7	62.9	44.0	33.0	24.4	18.1	14.1	11.0	5.5	1.6
206.7	22.5°	106.9	69.2	42.4	29.9	21.2	14.1	9.4	3.9	0.0	0.0
314.3	25°	147.7	80.2	42.4	28.3	18.9	10.2	3.1	0.0	0.0	0.0
446.4	27.5°	196.5	95.1	42.4	24.4	14.9	5.5	0.0	0.0	0.0	0.0
608.3	30°	246.0	111.6	42.4	21.2	11.8	0.8	0.0	0.0	0.0	0.0
748.9	32.5°	293.1	125.7	43.2	18.1	7.9	0.0	0.0	0.0	0.0	0.0
943.8	35°	341.1	128.1	42.4	15.7	4.7	0.0	0.0	0.0	0.0	0.0
1182.7	37.5°	402.4	123.4	40.1	14.1	2.4	0.0	0.0	0.0	0.0	0.0
1556.0	40°	495.1	125.7	37.7	13.4	0.8	0.0	0.0	0.0	0.0	0.0
2221.7	42.5°	666.4	136.0	34.6	13.4	0.0	0.0	0.0	0.0	0.0	0.0
3538.8	45°	1152.1	182.3	31.4	14.1	0.0	0.0	0.0	0.0	0.0	0.0
5312.5	47.5°	1905.7	327.7	30.6	14.1	0.0	0.0	0.0	0.0	0.0	0.0
6399.4	50°	2432.3	412.6	32.2	14.9	0.0	0.0	0.0	0.0	0.0	0.0
6535.3	52.5°	2428.4	459.7	33.8	15.7	3.1	0.0	0.0	0.0	0.0	0.0
6023.7	55°	2158.8	468.4	36.2	17.3	10.2	0.0	0.0	0.0	0.0	0.0
5176.6	57.5°	1804.4	427.5	41.7	21.2	18.9	0.0	0.0	0.0	0.0	0.0
5043.7	58°	1741.5	408.7	43.2	22.0	20.4	0.0	0.0	0.0	0.0	0.0
4375.0	60°	1427.1	333.2	55.0	27.5	27.5	0.0	0.0	0.0	0.0	0.0
3586.7	62.5°	985.5	290.8	62.9	35.4	28.3	0.0	0.0	0.0	0.0	0.0
2644.5	65°	697.1	262.5	68.4	37.7	22.8	0.0	0.0	0.0	0.0	0.0
1879.0	67.5°	521.0	242.0	75.4	38.5	11.8	0.0	0.0	0.0	0.0	0.0
1178.8	70°	399.2	227.1	92.7	40.9	3.1	0.0	0.0	0.0	0.0	0.0
702.6	72.5°	325.4	209.8	112.4	42.4	0.0	0.0	0.0	0.0	0.0	0.0
421.2	75°	269.6	189.4	108.5	46.4	0.0	0.0	0.0	0.0	0.0	0.0
224.8	77.5°	179.2	147.0	99.0	46.4	0.0	0.0	0.0	0.0	0.0	0.0
80.2	80°	62.9	58.2	77.0	40.9	0.0	0.0	0.0	0.0	0.0	0.0
16.5	82.5°	9.4	7.9	11.0	14.1	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°
45.6	0°	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
32.2	2.5°	32.2	32.2	31.4	32.2	32.2	33.8	37.7	43.2	49.5	51.9
27.5	5°	26.7	25.9	25.1	25.1	25.1	27.5	30.6	36.9	44.0	47.2
22.8	7.5°	22.0	21.2	20.4	19.6	19.6	21.2	25.1	32.2	39.3	42.4
18.9	10°	18.1	16.5	15.7	14.9	14.9	16.5	20.4	27.5	35.4	38.5
15.7	12.5°	14.9	12.6	11.0	10.2	9.4	11.8	15.7	22.0	30.6	34.6
11.8	15°	10.2	7.9	5.5	4.7	3.9	6.3	10.2	17.3	25.9	30.6
6.3	17.5°	5.5	2.4	0.8	0.0	0.0	1.6	4.7	12.6	21.2	25.1
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	15.7	19.6
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	9.4	13.4
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	7.1
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
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	2.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	6.3
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°
45.6	0°	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
54.2	2.5°	55.8	55.0	53.4	51.9	51.9	51.9	54.2	56.6	58.9	58.9
48.7	5°	51.9	51.9	51.1	49.5	49.5	50.3	53.4	57.4	60.5	61.3
44.8	7.5°	47.9	49.5	47.9	47.2	47.9	48.7	51.9	56.6	61.3	62.9
41.7	10°	45.6	46.4	46.4	45.6	45.6	47.2	50.3	56.6	62.9	65.2
37.7	12.5°	42.4	44.0	43.2	43.2	43.2	44.8	48.7	55.8	64.4	67.6
33.8	15°	39.3	41.7	41.7	40.9	40.9	41.7	47.2	55.0	66.8	72.3
29.1	17.5°	36.2	38.5	39.3	37.7	37.7	39.3	44.8	55.0	68.4	77.8
23.6	20°	29.9	33.8	36.2	33.8	33.8	35.4	40.9	51.9	69.2	83.3
17.3	22.5°	23.6	27.5	30.6	29.9	29.9	30.6	37.7	49.5	69.9	92.7
10.2	25°	17.3	21.2	23.6	25.1	25.1	27.5	34.6	47.9	73.1	112.4
4.7	27.5°	10.2	14.9	18.1	19.6	20.4	23.6	32.2	46.4	78.6	140.7
0.0	30°	4.7	8.6	12.6	15.7	15.7	21.2	29.9	44.8	85.7	181.5
0.0	32.5°	0.0	3.9	6.3	11.0	11.8	17.3	27.5	43.2	95.9	220.8
0.0	35°	0.0	0.0	3.1	8.6	8.6	14.1	25.1	41.7	111.6	250.7
0.0	37.5°	0.0	0.0	0.0	6.3	7.1	12.6	24.4	40.9	114.7	253.1
0.0	40°	0.0	0.0	0.0	4.7	5.5	11.8	24.4	41.7	103.7	247.6
0.0	42.5°	0.0	0.0	0.0	3.1	3.9	11.8	24.4	43.2	93.5	253.8
0.0	45°	0.0	0.0	0.0	2.4	3.1	12.6	23.6	42.4	88.0	286.8
0.0	47.5°	0.0	0.0	0.0	3.1	4.7	12.6	22.8	41.7	88.8	396.1
0.0	50°	0.0	0.0	0.0	3.9	5.5	12.6	23.6	40.1	97.4	609.1
0.0	52.5°	0.0	0.0	0.0	3.1	4.7	14.1	25.9	39.3	106.1	792.2
0.0	55°	0.0	0.0	0.0	0.8	2.4	18.1	28.3	39.3	119.5	837.7
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	20.4	32.2	41.7	141.5	819.7
0.0	58°	0.0	0.0	0.0	0.0	0.0	20.4	33.0	41.7	143.0	803.9
0.0	60°	0.0	0.0	0.0	0.0	0.0	20.4	36.2	46.4	154.0	715.9
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	17.3	43.2	58.2	160.3	562.7
0.0	65°	0.0	0.0	0.0	0.0	0.0	14.1	51.1	63.7	165.0	447.9
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	13.4	52.7	64.4	167.4	356.8
0.0	70°	0.0	0.0	0.0	0.0	0.0	14.1	51.9	69.2	175.3	290.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	15.7	47.2	76.2	175.3	257.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	16.5	44.0	85.7	159.5	222.4
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	15.7	43.2	99.8	142.2	183.1
0.0	80°	1.6	2.4	2.4	1.6	1.6	13.4	42.4	101.4	121.0	125.7
0.8	82.5°	4.7	6.3	5.5	3.9	3.9	11.8	37.7	84.9	62.9	54.2
4.7	85°	8.6	10.2	10.2	8.6	8.6	11.0	23.6	30.6	21.2	17.3
8.6	87.5°	11.8	13.4	13.4	11.8	11.8	11.0	10.2	9.4	8.6	8.6
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

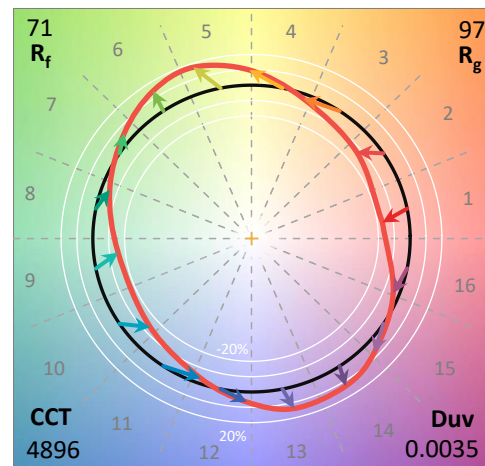
Data in this report applies to families of products including GSS-SB1A-750-U-5WQ

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

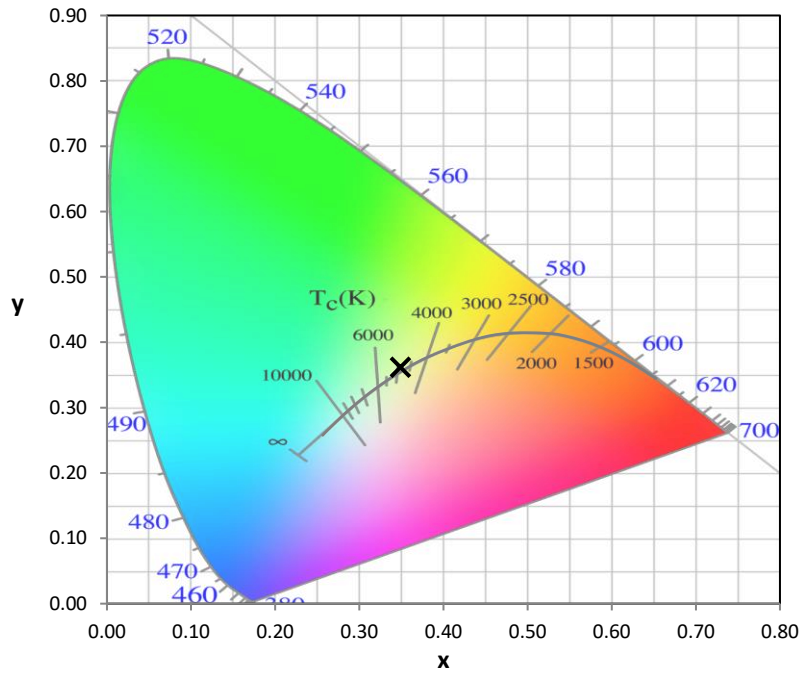
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-6

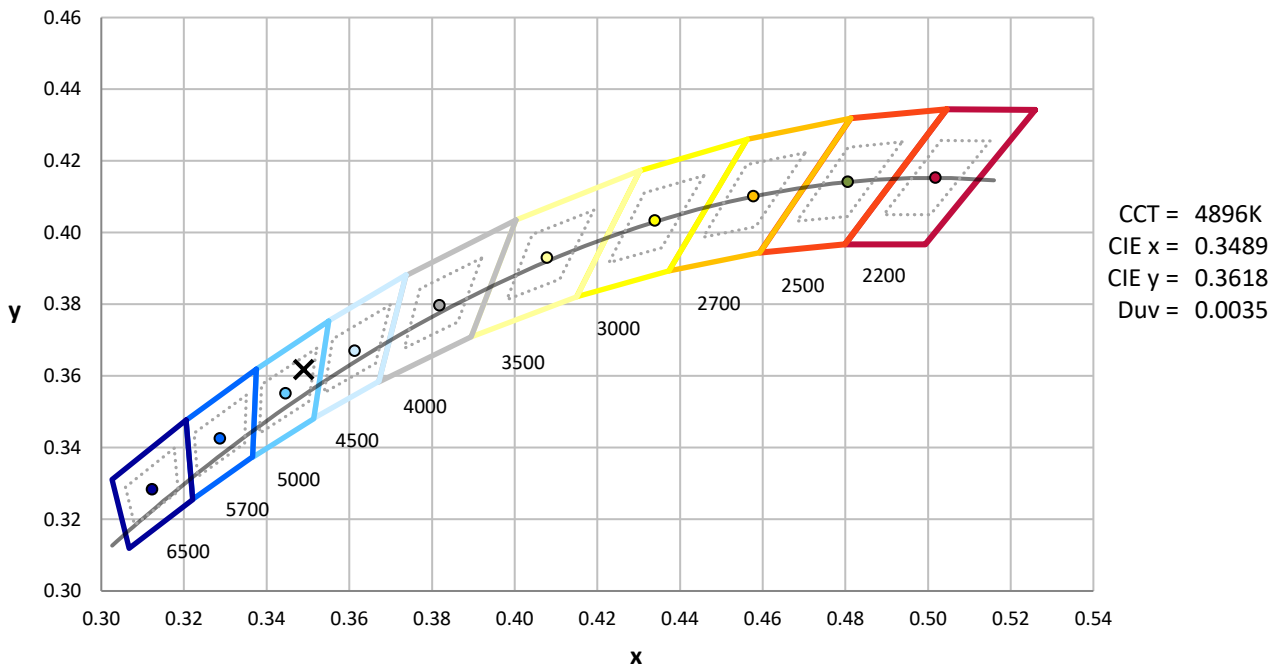
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



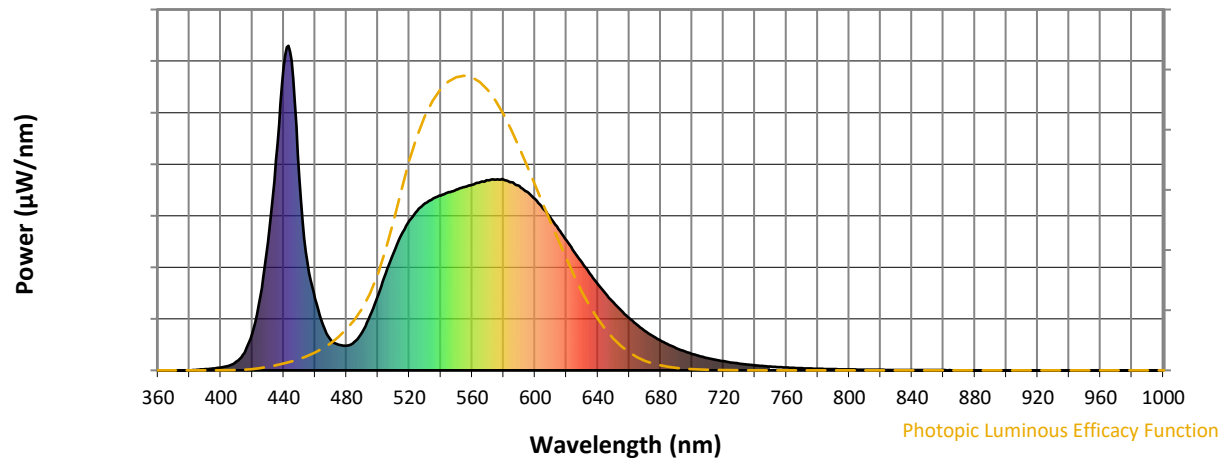
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-6

Photopic Flux vs. Wavelength

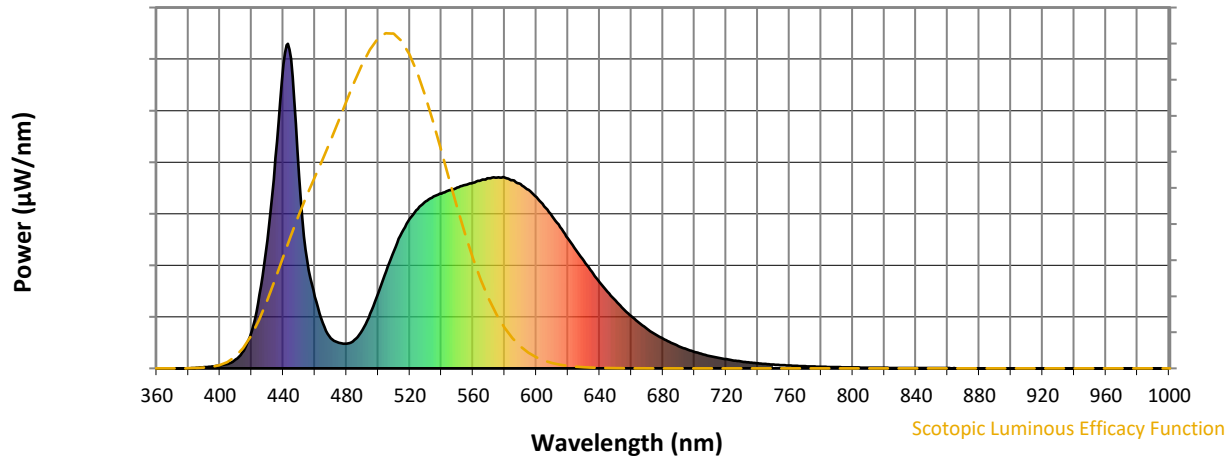


Photopic Lumens: NR

λ (nm)	Power 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			

REPORT NUMBER: SP1-2407-184-6

Scotopic Flux vs. Wavelength



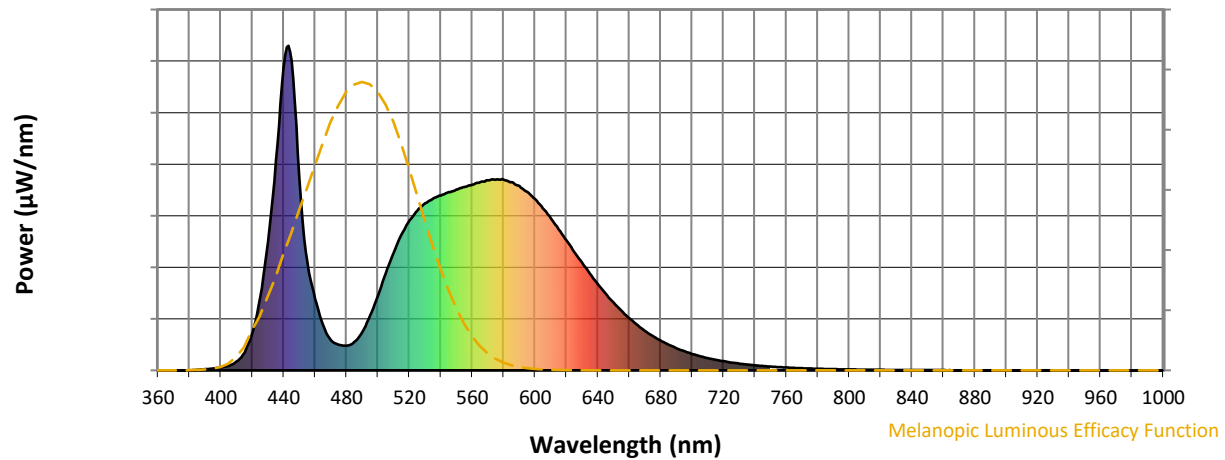
Scotopic Lumens: NR

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

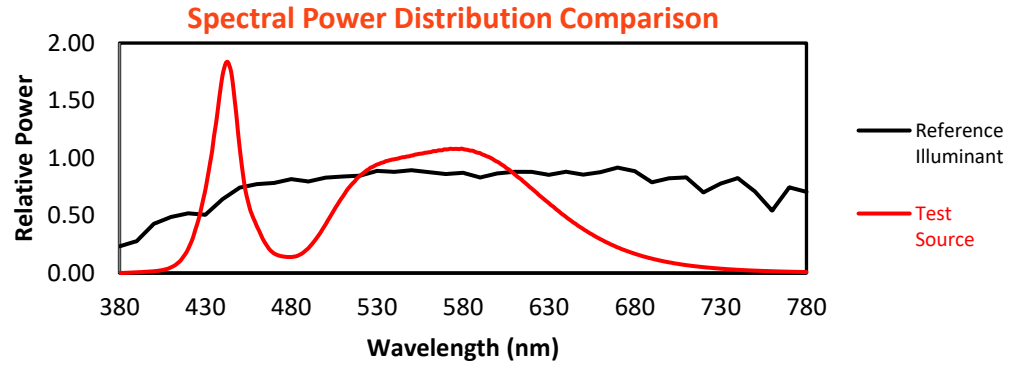
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	118	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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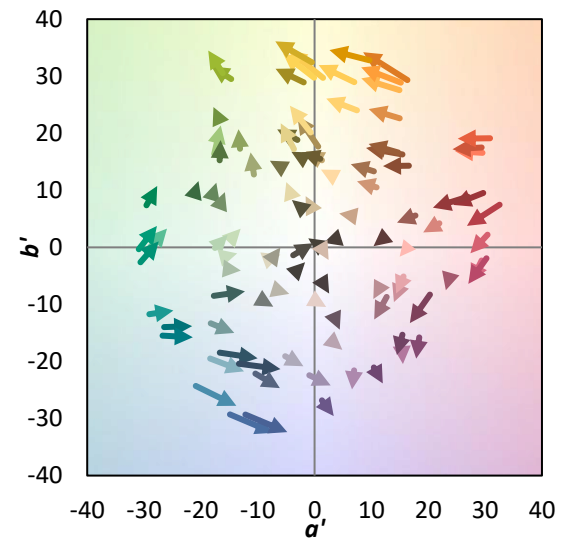
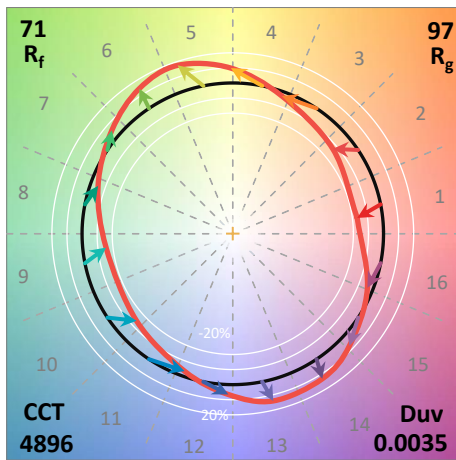
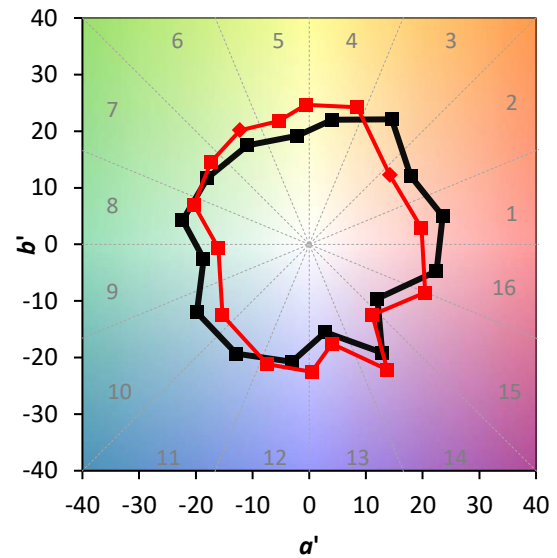
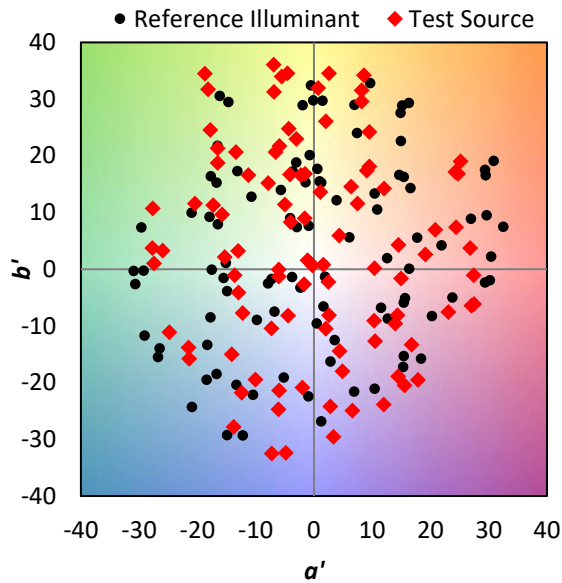
TM-30-18

Summary

$R_f = 70.7$
 $R_g = 96.8$
 $CIE R_a = 70.2$
 $R_g = -35.1$

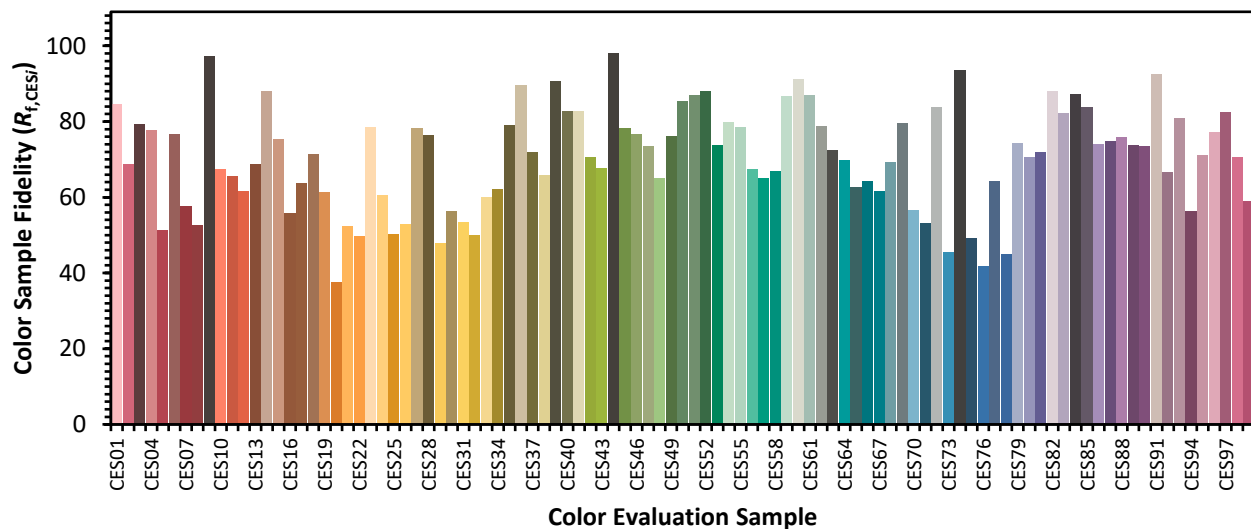


Color Vector Graphics

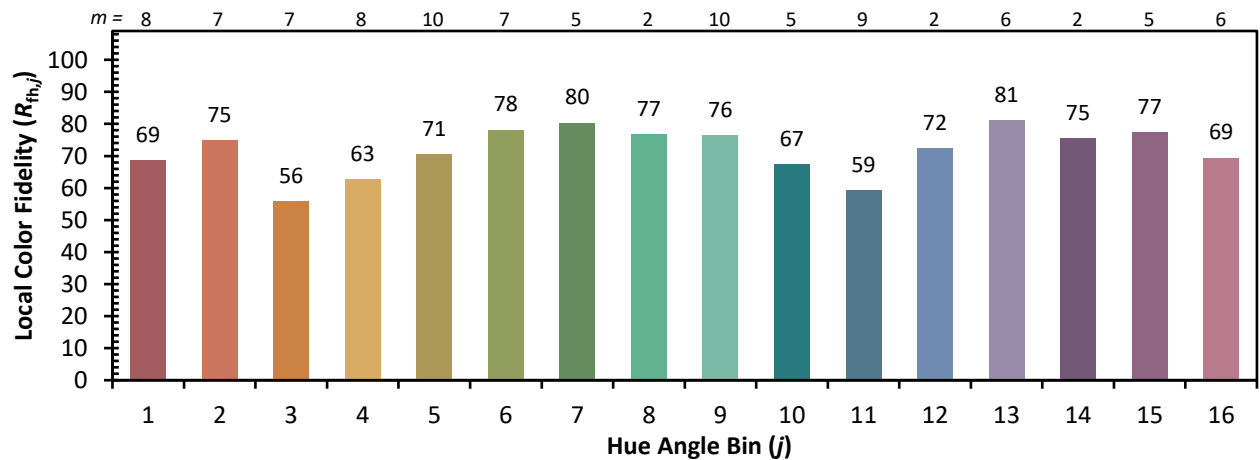
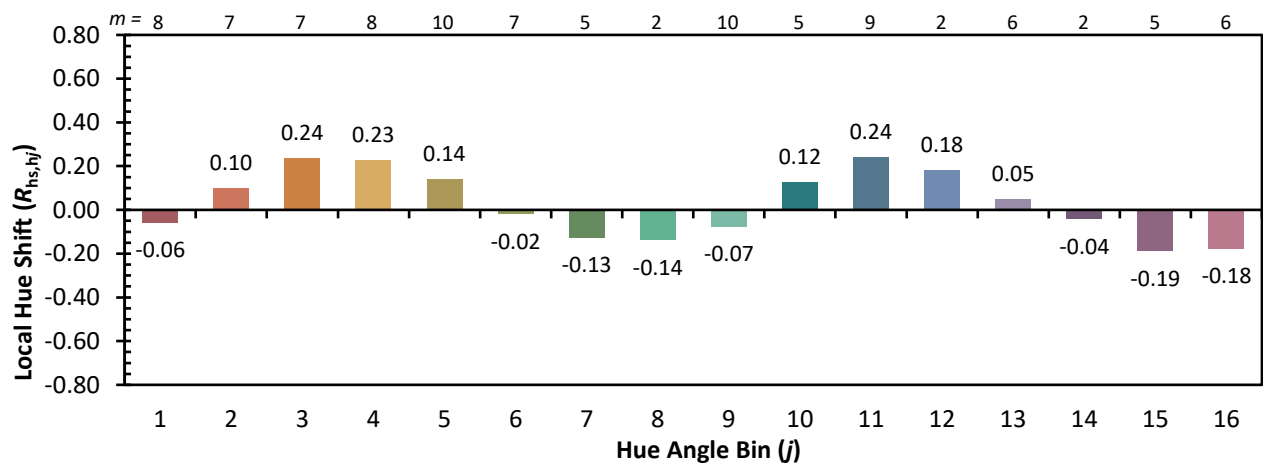
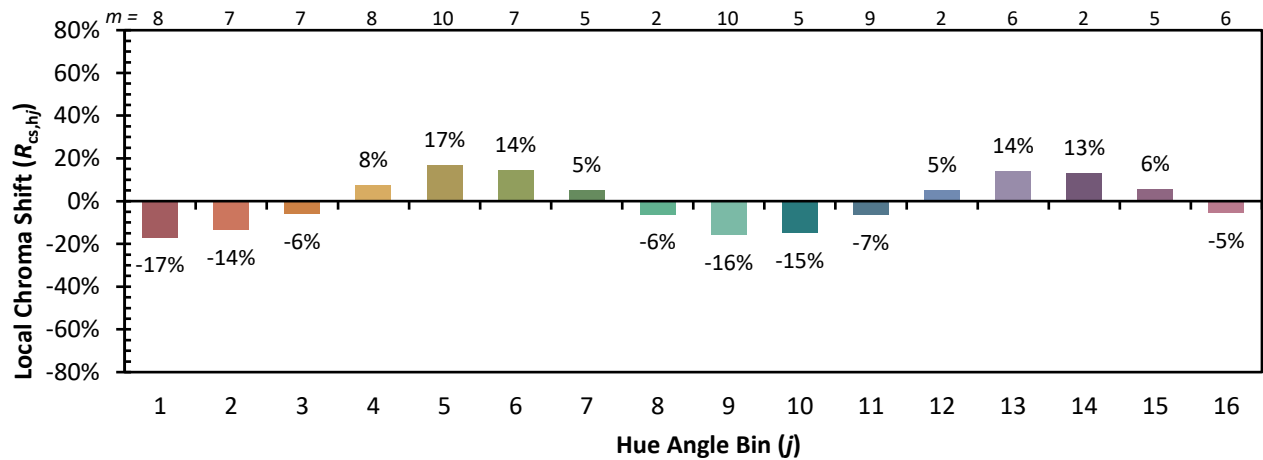


Individual Sample Fidelity Index ($R_{f,i}$)

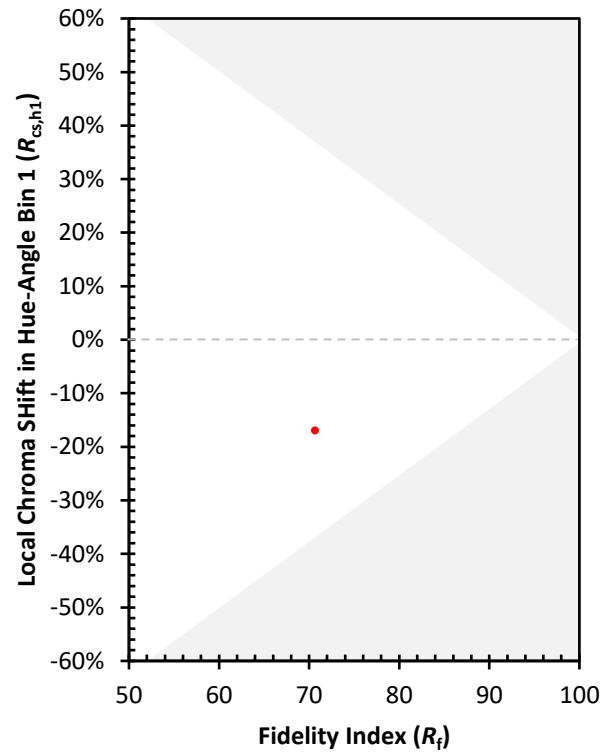
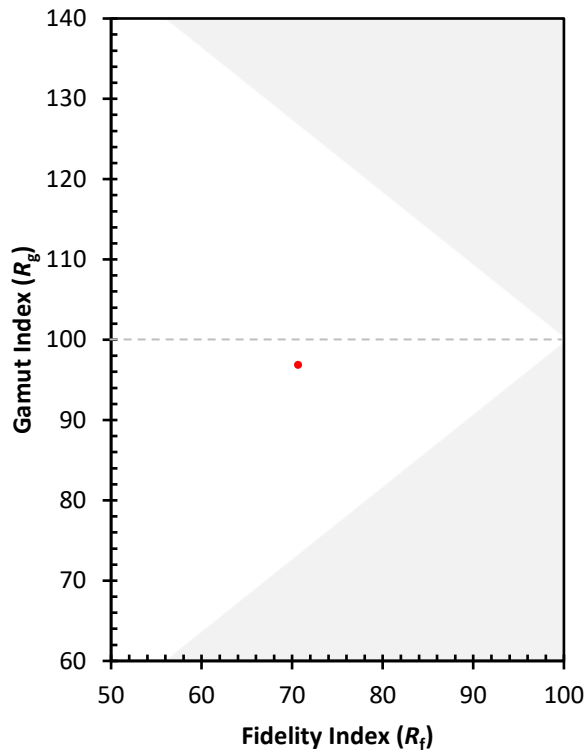
CES01 = 85	CES26 = 53	CES51 = 87	CES76 = 42
CES02 = 59	CES27 = 78	CES52 = 88	CES77 = 64
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 45
CES04 = 69	CES29 = 48	CES54 = 80	CES79 = 74
CES05 = 46	CES30 = 56	CES55 = 79	CES80 = 71
CES06 = 50	CES31 = 54	CES56 = 68	CES81 = 72
CES07 = 39	CES32 = 50	CES57 = 65	CES82 = 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)