

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: P1049646

Luminaire Tested: **GALN-SA2B-750-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049646
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-750-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 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: 8390.2 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

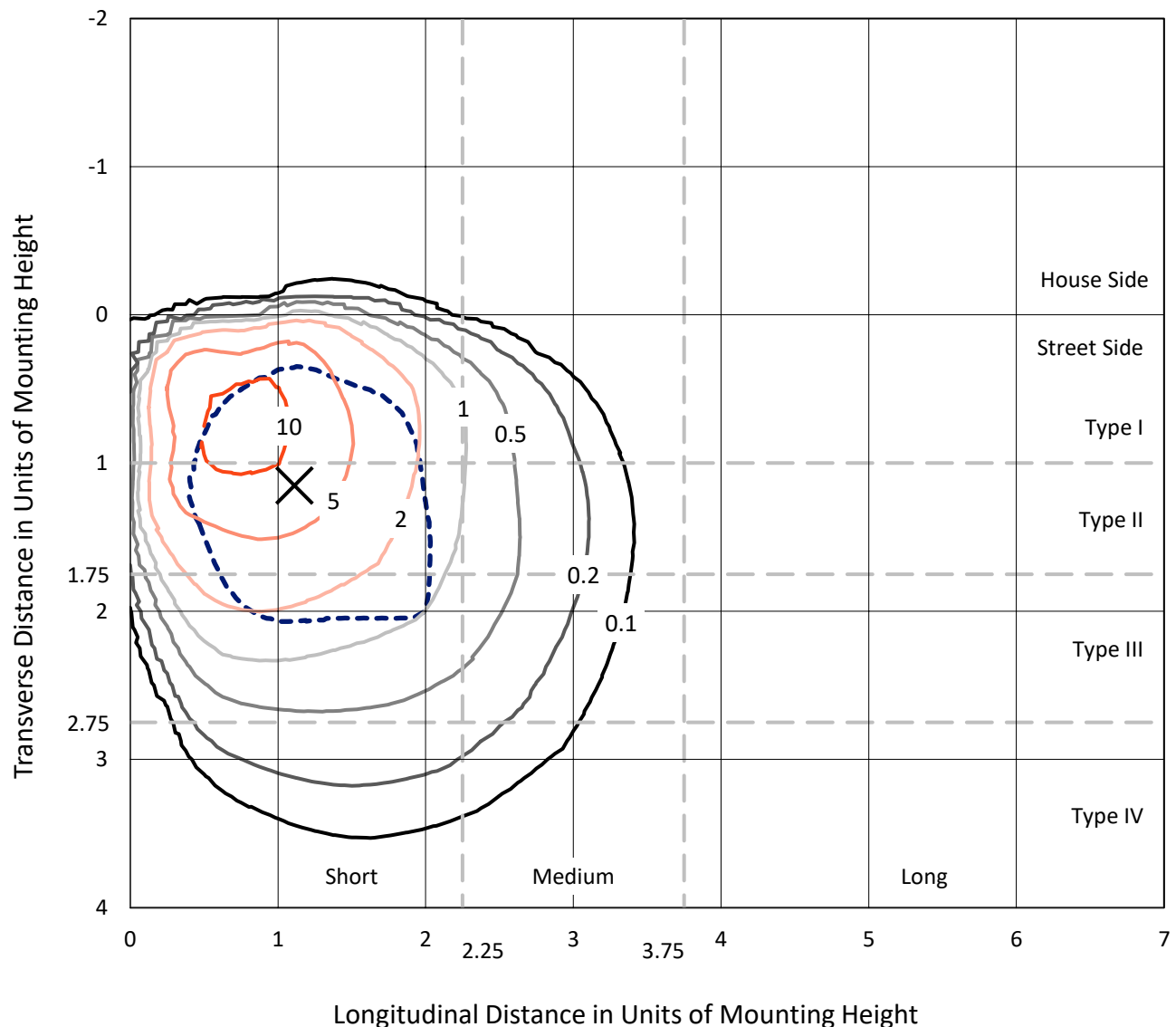
Input Watts (W): 72.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

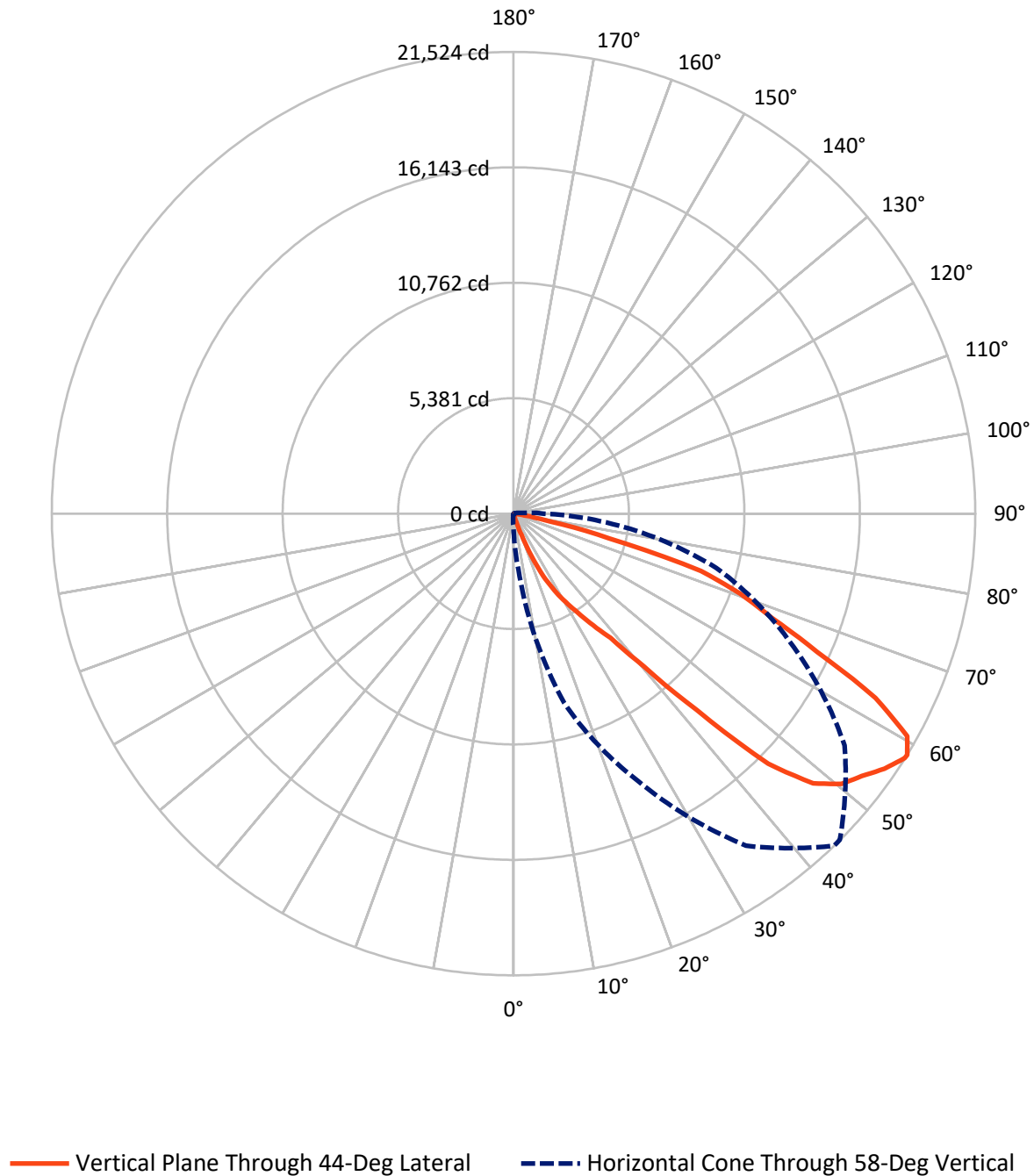
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14.6 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	57.3	0.0	57.3
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	8332.9	0.0	8332.9
	% Fixture	99.3	0.0	99.3
Total	Lumens	8390.2	0.0	8390.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.3	0.0
10°-20°	18.4	0.2
20°-30°	198.8	2.4
30°-40°	587.8	7.0
40°-50°	1752.0	20.9
50°-60°	2780.0	33.1
60°-70°	2318.9	27.6
70°-80°	715.2	8.5
80°-90°	15.9	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°	8390.2	100.0
0°-180°	8390.2	100.0



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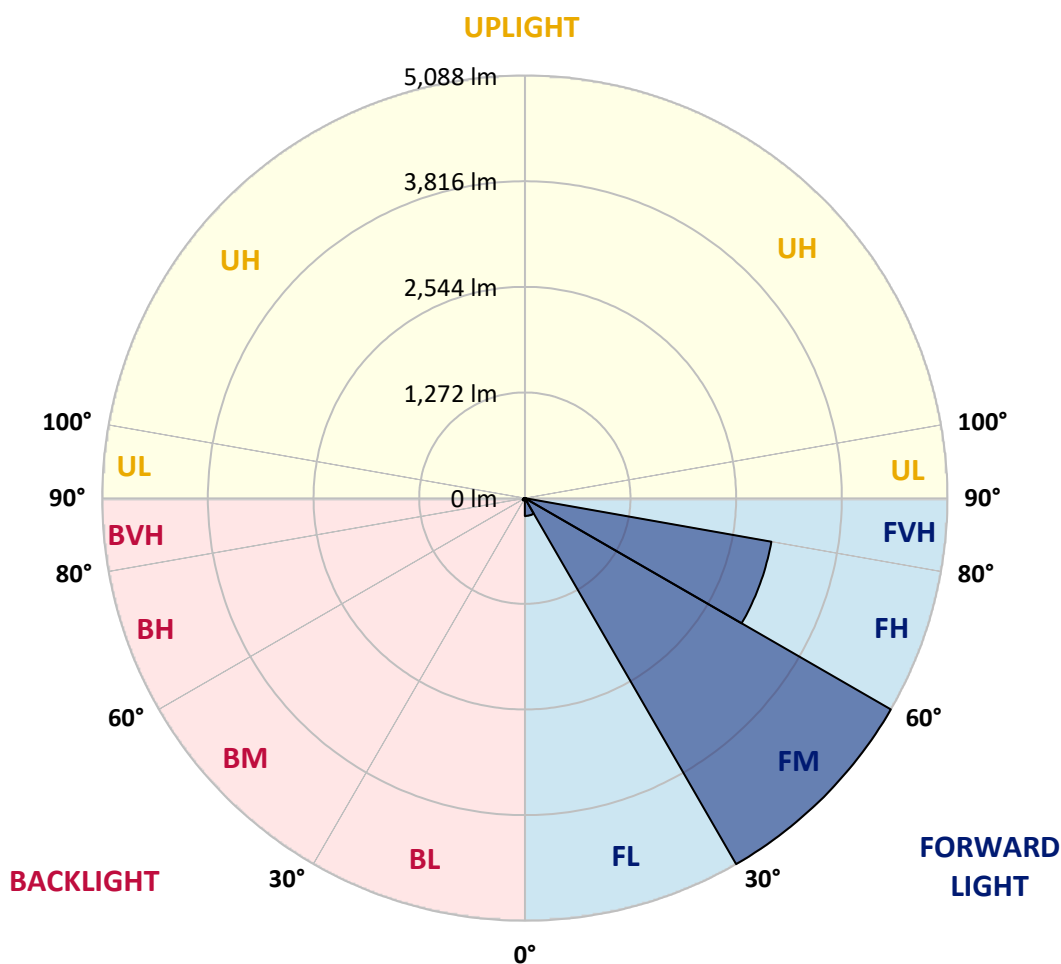
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	214.8	2.6			
FM	(30°-60°)	5088.5	60.6			
FH	(60°-80°)	3014.5	35.9			G2/5000
FVH	(80°-90°)	15.1	0.2			G1/100
BL	(0°-30°)	5.6	0.1	B0/110		
BM	(30°-60°)	31.4	0.4	B0/220		
BH	(60°-80°)	19.6	0.2	B0/110		G0/110
BVH	(80°-90°)	0.8	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°	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8
2.5°	47.5	47.5	45.6	43.1	40.6	38.0	37.4	36.1	35.5	34.9
5°	49.4	49.4	48.8	46.9	44.4	42.5	42.5	40.6	39.3	38.0
7.5°	50.7	51.3	52.6	52.0	50.7	48.8	48.8	47.5	45.6	42.5
10°	52.6	54.5	57.0	58.3	58.9	58.9	58.3	57.7	54.5	50.1
12.5°	54.5	58.3	64.6	71.0	74.8	79.9	79.2	78.0	69.7	60.2
15°	58.3	64.0	77.3	95.7	124.2	142.0	148.9	142.6	115.4	81.1
17.5°	62.7	72.3	112.2	200.3	328.3	389.2	425.9	396.1	262.4	154.0
20°	67.2	88.1	208.5	519.1	851.8	1050.9	1106.0	1019.8	654.7	293.5
22.5°	74.8	123.6	422.8	1073.0	1835.5	2134.0	2190.4	1914.7	1236.6	579.3
25°	90.6	179.4	728.9	1748.7	2739.3	3243.2	3219.8	2858.5	2006.0	925.4
27.5°	113.5	261.1	1102.2	2484.5	3605.1	4049.4	4102.7	3655.8	2674.0	1360.8
30°	146.4	361.9	1502.8	3074.0	4299.1	4779.6	4788.4	4326.4	3271.7	1743.0
32.5°	178.1	457.0	1853.3	3643.8	4983.0	5509.7	5549.0	4980.5	3717.9	2141.0
35°	202.2	519.1	2208.2	4144.5	5672.6	6398.3	6395.8	5720.8	4246.5	2496.6
37.5°	204.1	581.2	2529.5	4656.6	6546.0	7358.5	7439.0	6694.9	4885.4	2936.4
40°	199.7	650.9	2936.4	5455.2	8119.7	9366.4	9437.4	8499.4	6167.0	3689.4
42.5°	204.7	772.0	3596.9	6930.1	10732.9	12523.5	12660.4	11674.2	8522.8	5225.8
45°	231.3	999.5	4980.5	9397.5	14457.8	16640.7	16595.1	15174.7	11264.1	7564.5
47.5°	319.4	1556.6	7031.5	11799.0	16838.4	18782.3	18821.6	17085.6	12863.8	9362.6
50°	491.2	2381.9	8754.8	13068.5	17862.0	19812.3	19775.5	17769.5	13471.6	10248.1
52.5°	638.9	2978.9	9619.3	13514.1	17993.2	20321.2	20318.7	17949.5	13566.1	10324.1
55°	675.6	3023.9	9626.3	13538.2	18287.3	20987.4	21071.0	18392.5	13688.4	9992.0
57.5°	661.1	2677.2	9224.5	13677.6	18810.9	21502.6	21507.1	18821.6	13999.0	9788.6
58°	648.4	2622.7	9143.3	13756.9	18900.9	21524.2	21513.4	18841.3	14251.9	9781.0
60°	577.4	2277.3	8827.1	13959.0	18767.1	21081.8	20981.0	18412.2	14214.5	9703.0
62.5°	453.8	1776.6	8515.9	13725.2	17333.4	18940.2	18982.0	16301.0	12958.3	9248.6
65°	361.3	1324.0	7866.9	12039.2	14273.4	15553.7	15709.6	13255.5	10816.0	7831.4
67.5°	287.7	957.1	6599.2	9585.1	11294.5	12981.1	13094.5	11129.1	8379.6	6000.3
70°	233.9	647.1	4555.2	7009.9	9315.7	11212.1	11219.1	9245.4	6254.4	3931.5
72.5°	207.3	448.1	2644.3	5112.3	7553.8	9136.4	8951.9	7502.4	4806.8	2328.6
75°	179.4	297.3	1296.8	3125.3	4579.9	4611.0	4681.3	3480.3	2402.8	1107.3
77.5°	147.7	211.1	510.9	853.7	1373.5	1758.2	1823.5	1381.7	799.2	272.5
80°	101.4	100.1	137.5	261.8	393.0	492.5	459.5	355.6	209.2	104.6
82.5°	43.7	47.5	62.1	74.8	60.8	58.9	56.4	36.1	27.9	21.5
85°	13.9	12.7	13.3	13.3	10.8	8.2	8.2	3.8	0.0	0.0
87.5°	7.0	5.7	5.7	5.1	3.2	1.3	0.6	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°
36.8	0°	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8
34.2	2.5°	33.6	33.6	32.3	31.1	30.4	29.2	28.5	27.9	27.3	26.6
36.8	5°	35.5	34.9	33.0	31.1	29.2	27.3	26.0	24.7	23.5	22.8
40.6	7.5°	38.7	37.4	33.6	30.4	27.9	25.4	24.1	22.2	20.9	19.0
45.0	10°	42.5	39.9	34.9	31.1	27.3	24.1	22.2	20.3	18.4	15.8
51.3	12.5°	47.5	43.1	36.8	30.4	26.0	22.2	20.3	17.7	15.8	13.9
59.6	15°	52.0	46.3	37.4	30.4	24.7	20.3	17.7	15.2	13.3	10.8
74.8	17.5°	58.3	48.8	36.8	28.5	22.8	17.7	15.2	13.3	10.1	6.3
110.9	20°	69.1	50.7	35.5	26.6	19.6	14.6	11.4	8.9	4.4	1.3
166.7	22.5°	86.2	55.8	34.2	24.1	17.1	11.4	7.6	3.2	0.0	0.0
253.5	25°	119.2	64.6	34.2	22.8	15.2	8.2	2.5	0.0	0.0	0.0
360.0	27.5°	158.5	76.7	34.2	19.6	12.0	4.4	0.0	0.0	0.0	0.0
490.6	30°	198.4	90.0	34.2	17.1	9.5	0.6	0.0	0.0	0.0	0.0
604.0	32.5°	236.4	101.4	34.9	14.6	6.3	0.0	0.0	0.0	0.0	0.0
761.2	35°	275.1	103.3	34.2	12.7	3.8	0.0	0.0	0.0	0.0	0.0
953.9	37.5°	324.5	99.5	32.3	11.4	1.9	0.0	0.0	0.0	0.0	0.0
1254.9	40°	399.3	101.4	30.4	10.8	0.6	0.0	0.0	0.0	0.0	0.0
1791.8	42.5°	537.5	109.6	27.9	10.8	0.0	0.0	0.0	0.0	0.0	0.0
2854.0	45°	929.2	147.0	25.4	11.4	0.0	0.0	0.0	0.0	0.0	0.0
4284.6	47.5°	1537.0	264.3	24.7	11.4	0.0	0.0	0.0	0.0	0.0	0.0
5161.1	50°	1961.6	332.8	26.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0
5270.8	52.5°	1958.5	370.8	27.3	12.7	2.5	0.0	0.0	0.0	0.0	0.0
4858.2	55°	1741.1	377.8	29.2	13.9	8.2	0.0	0.0	0.0	0.0	0.0
4174.9	57.5°	1455.2	344.8	33.6	17.1	15.2	0.0	0.0	0.0	0.0	0.0
4067.8	58°	1404.5	329.6	34.9	17.7	16.5	0.0	0.0	0.0	0.0	0.0
3528.4	60°	1151.0	268.7	44.4	22.2	22.2	0.0	0.0	0.0	0.0	0.0
2892.7	62.5°	794.8	234.5	50.7	28.5	22.8	0.0	0.0	0.0	0.0	0.0
2132.8	65°	562.2	211.7	55.1	30.4	18.4	0.0	0.0	0.0	0.0	0.0
1515.4	67.5°	420.2	195.2	60.8	31.1	9.5	0.0	0.0	0.0	0.0	0.0
950.7	70°	322.0	183.2	74.8	33.0	2.5	0.0	0.0	0.0	0.0	0.0
566.6	72.5°	262.4	169.2	90.6	34.2	0.0	0.0	0.0	0.0	0.0	0.0
339.7	75°	217.4	152.7	87.5	37.4	0.0	0.0	0.0	0.0	0.0	0.0
181.3	77.5°	144.5	118.5	79.9	37.4	0.0	0.0	0.0	0.0	0.0	0.0
64.6	80°	50.7	46.9	62.1	33.0	0.0	0.0	0.0	0.0	0.0	0.0
13.3	82.5°	7.6	6.3	8.9	11.4	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°
36.8	0°	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8
26.0	2.5°	26.0	26.0	25.4	26.0	26.0	27.3	30.4	34.9	39.9	41.8
22.2	5°	21.5	20.9	20.3	20.3	20.3	22.2	24.7	29.8	35.5	38.0
18.4	7.5°	17.7	17.1	16.5	15.8	15.8	17.1	20.3	26.0	31.7	34.2
15.2	10°	14.6	13.3	12.7	12.0	12.0	13.3	16.5	22.2	28.5	31.1
12.7	12.5°	12.0	10.1	8.9	8.2	7.6	9.5	12.7	17.7	24.7	27.9
9.5	15°	8.2	6.3	4.4	3.8	3.2	5.1	8.2	13.9	20.9	24.7
5.1	17.5°	4.4	1.9	0.6	0.0	0.0	1.3	3.8	10.1	17.1	20.3
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	12.7	15.8
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	7.6	10.8
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	5.7
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
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	1.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.1
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°
36.8	0°	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8
43.7	2.5°	45.0	44.4	43.1	41.8	41.8	41.8	43.7	45.6	47.5	47.5
39.3	5°	41.8	41.8	41.2	39.9	39.9	40.6	43.1	46.3	48.8	49.4
36.1	7.5°	38.7	39.9	38.7	38.0	38.7	39.3	41.8	45.6	49.4	50.7
33.6	10°	36.8	37.4	37.4	36.8	36.8	38.0	40.6	45.6	50.7	52.6
30.4	12.5°	34.2	35.5	34.9	34.9	34.9	36.1	39.3	45.0	52.0	54.5
27.3	15°	31.7	33.6	33.6	33.0	33.0	33.6	38.0	44.4	53.9	58.3
23.5	17.5°	29.2	31.1	31.7	30.4	30.4	31.7	36.1	44.4	55.1	62.7
19.0	20°	24.1	27.3	29.2	27.3	27.3	28.5	33.0	41.8	55.8	67.2
13.9	22.5°	19.0	22.2	24.7	24.1	24.1	24.7	30.4	39.9	56.4	74.8
8.2	25°	13.9	17.1	19.0	20.3	20.3	22.2	27.9	38.7	58.9	90.6
3.8	27.5°	8.2	12.0	14.6	15.8	16.5	19.0	26.0	37.4	63.4	113.5
0.0	30°	3.8	7.0	10.1	12.7	12.7	17.1	24.1	36.1	69.1	146.4
0.0	32.5°	0.0	3.2	5.1	8.9	9.5	13.9	22.2	34.9	77.3	178.1
0.0	35°	0.0	0.0	2.5	7.0	7.0	11.4	20.3	33.6	90.0	202.2
0.0	37.5°	0.0	0.0	0.0	5.1	5.7	10.1	19.6	33.0	92.5	204.1
0.0	40°	0.0	0.0	0.0	3.8	4.4	9.5	19.6	33.6	83.7	199.7
0.0	42.5°	0.0	0.0	0.0	2.5	3.2	9.5	19.6	34.9	75.4	204.7
0.0	45°	0.0	0.0	0.0	1.9	2.5	10.1	19.0	34.2	71.0	231.3
0.0	47.5°	0.0	0.0	0.0	2.5	3.8	10.1	18.4	33.6	71.6	319.4
0.0	50°	0.0	0.0	0.0	3.2	4.4	10.1	19.0	32.3	78.6	491.2
0.0	52.5°	0.0	0.0	0.0	2.5	3.8	11.4	20.9	31.7	85.6	638.9
0.0	55°	0.0	0.0	0.0	0.6	1.9	14.6	22.8	31.7	96.3	675.6
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	16.5	26.0	33.6	114.1	661.1
0.0	58°	0.0	0.0	0.0	0.0	0.0	16.5	26.6	33.6	115.4	648.4
0.0	60°	0.0	0.0	0.0	0.0	0.0	16.5	29.2	37.4	124.2	577.4
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	13.9	34.9	46.9	129.3	453.8
0.0	65°	0.0	0.0	0.0	0.0	0.0	11.4	41.2	51.3	133.1	361.3
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	10.8	42.5	52.0	135.0	287.7
0.0	70°	0.0	0.0	0.0	0.0	0.0	11.4	41.8	55.8	141.3	233.9
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	12.7	38.0	61.5	141.3	207.3
0.0	75°	0.0	0.0	0.0	0.0	0.0	13.3	35.5	69.1	128.7	179.4
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	12.7	34.9	80.5	114.7	147.7
0.0	80°	1.3	1.9	1.9	1.3	1.3	10.8	34.2	81.8	97.6	101.4
0.6	82.5°	3.8	5.1	4.4	3.2	3.2	9.5	30.4	68.5	50.7	43.7
3.8	85°	7.0	8.2	8.2	7.0	7.0	8.9	19.0	24.7	17.1	13.9
7.0	87.5°	9.5	10.8	10.8	9.5	9.5	8.9	8.2	7.6	7.0	7.0
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

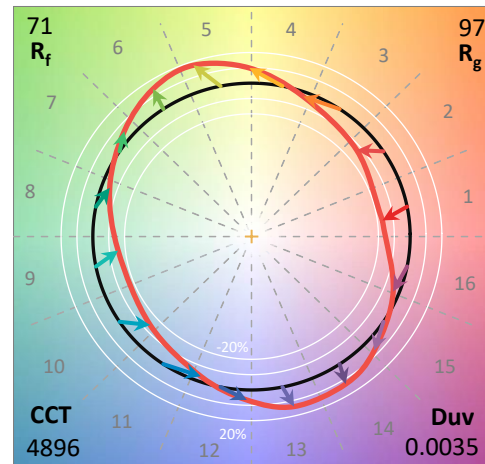
Data in this report applies to families of products including GSS-SB1A-750-U-5WQ

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

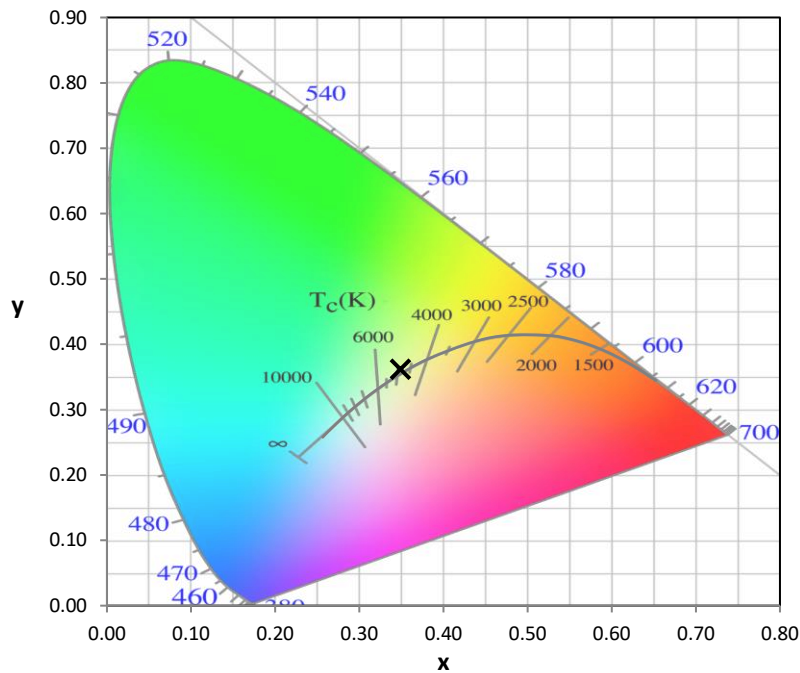
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-6

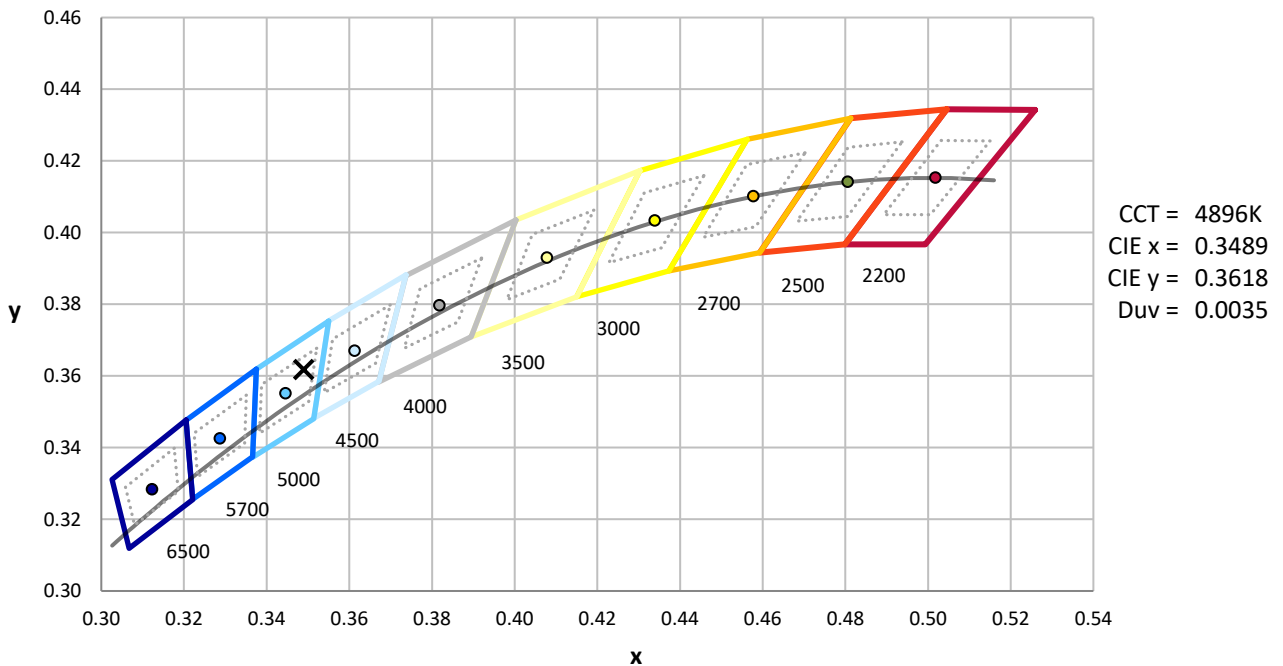
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



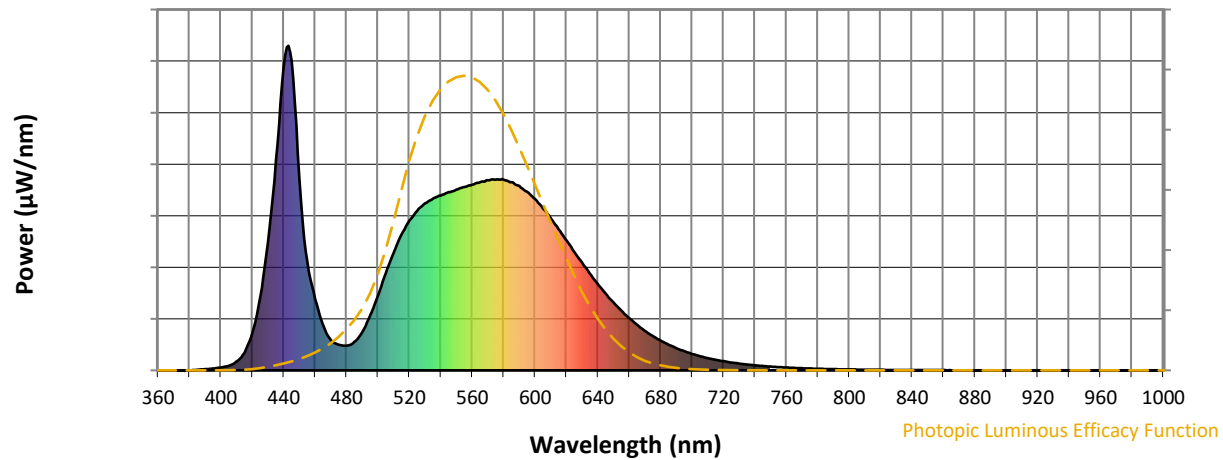
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-6

Photopic Flux vs. Wavelength

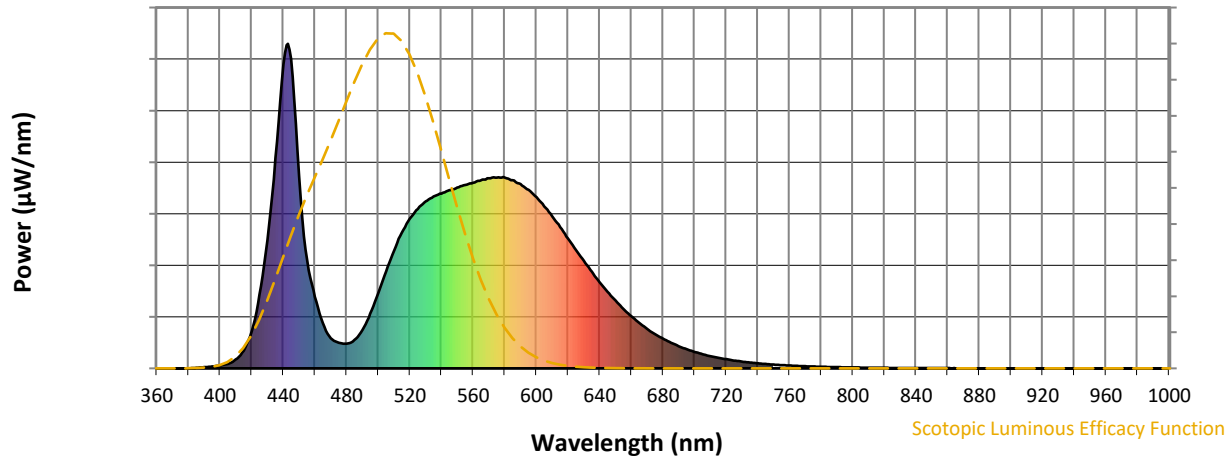


Photopic Lumens: NR

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



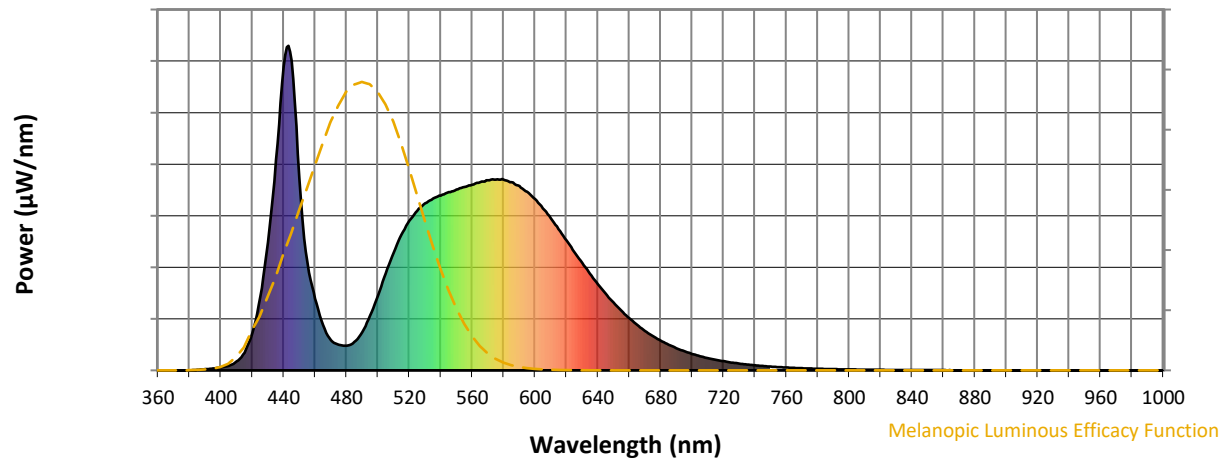
Scotopic Lumens: NR

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

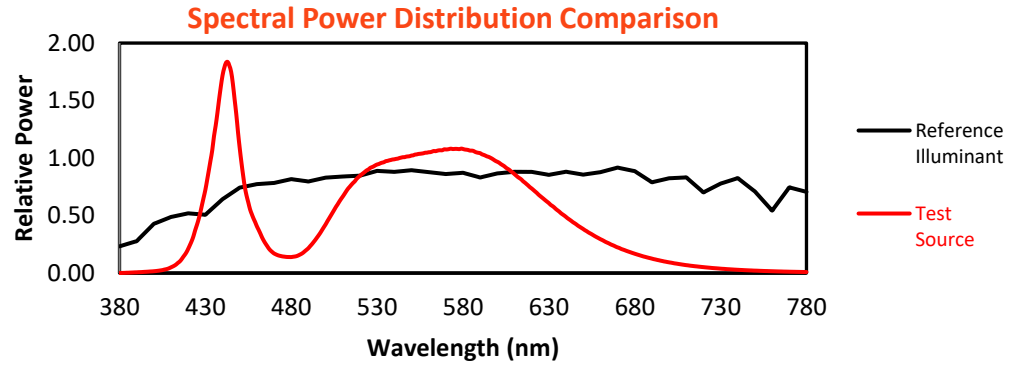
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	118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

REPORT NUMBER: SP1-2407-184-6

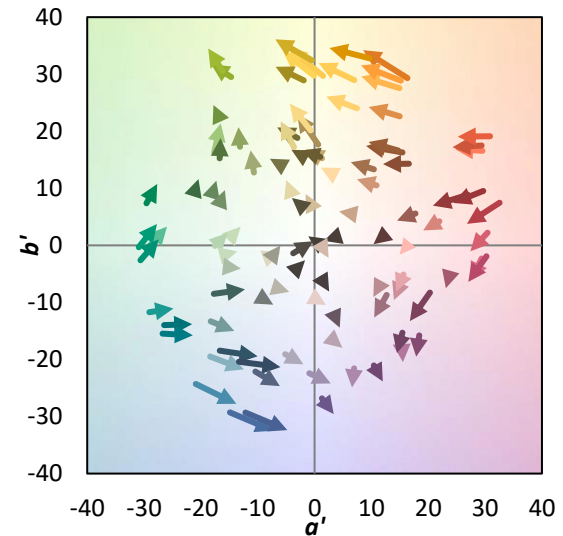
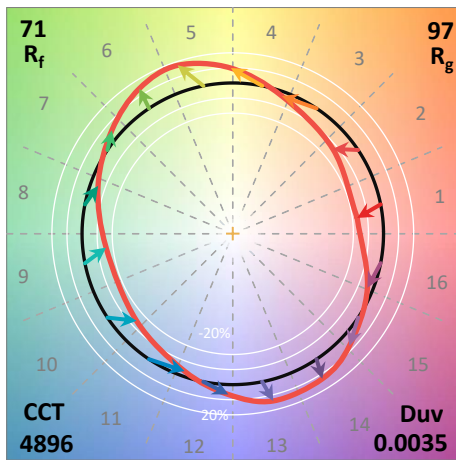
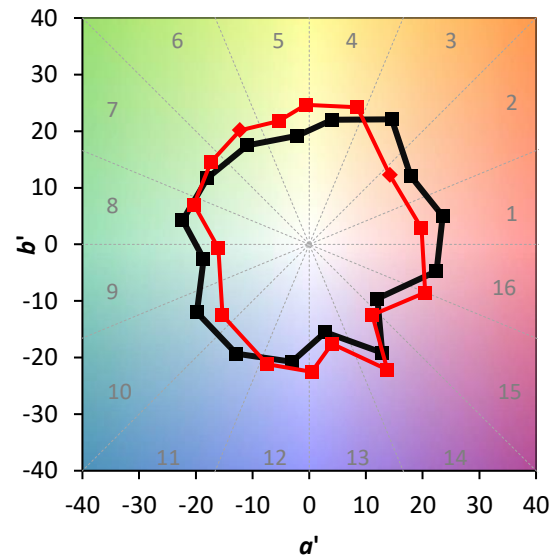
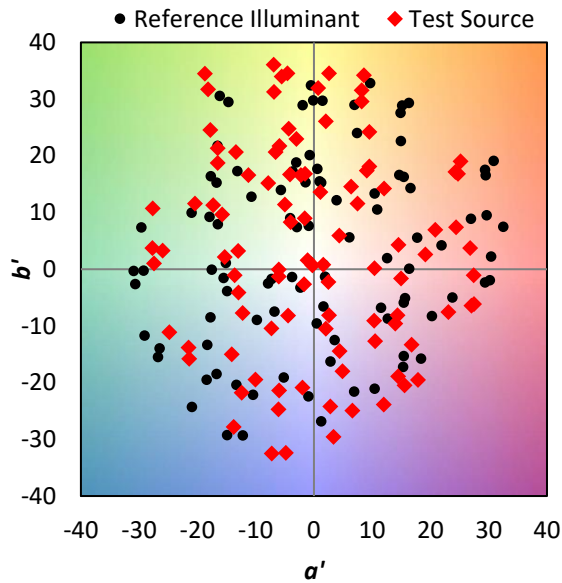
TM-30-18

Summary

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

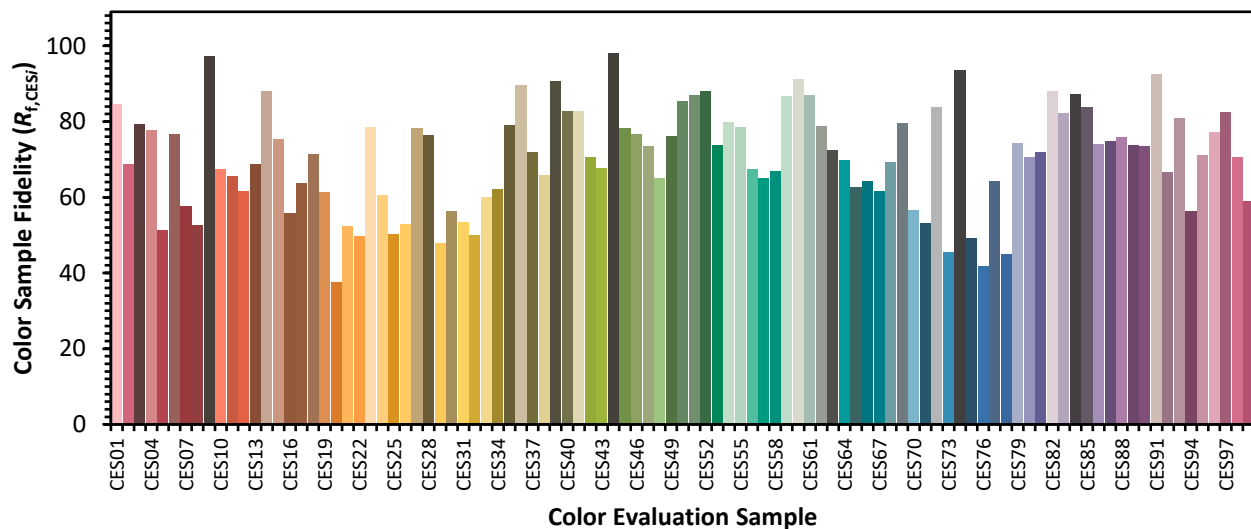


Color Vector Graphics

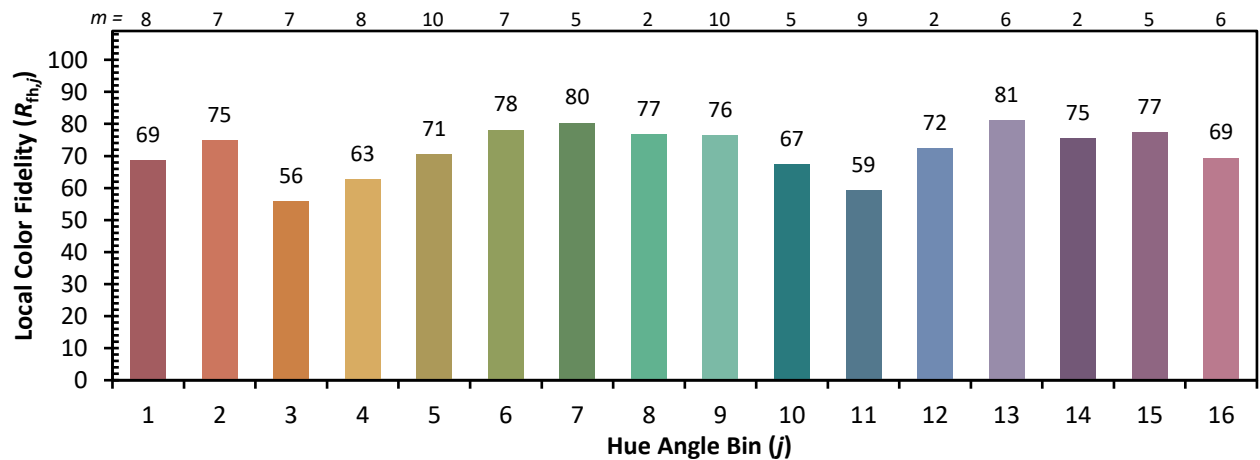
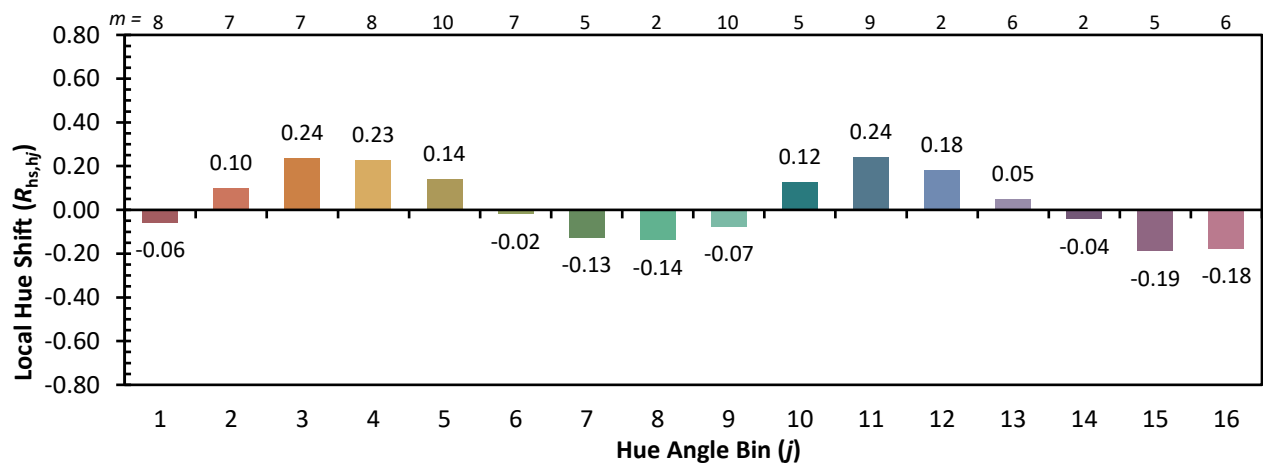
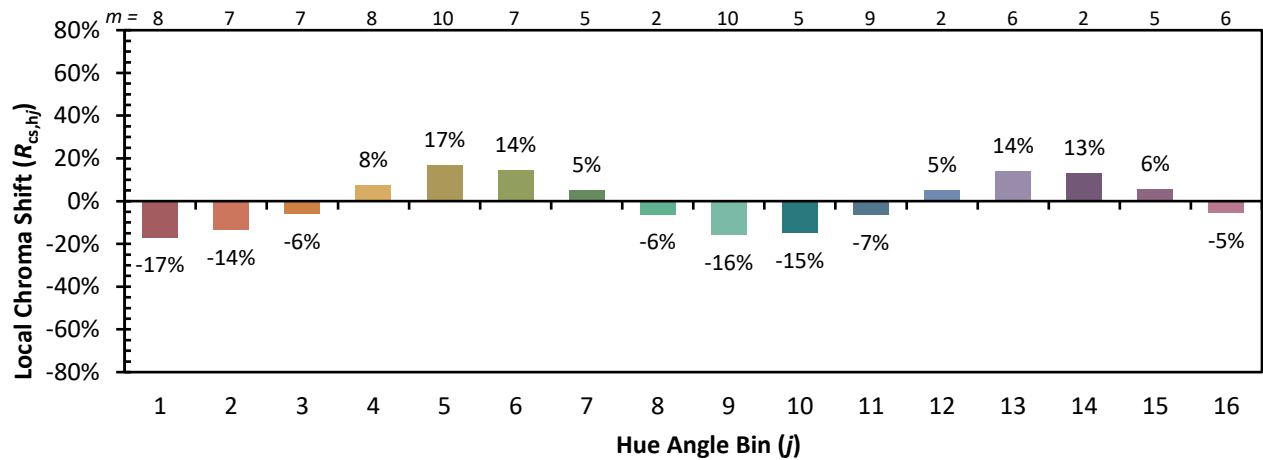


Individual Sample Fidelity Index ($R_{f,i}$)

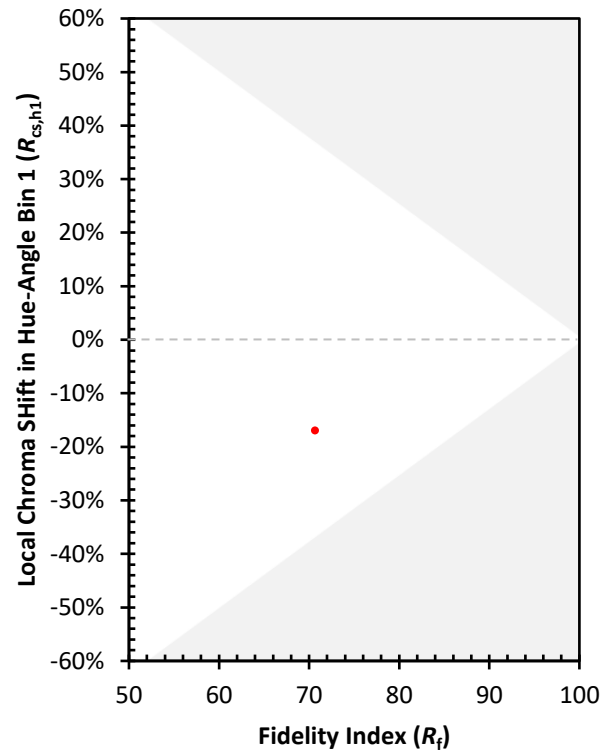
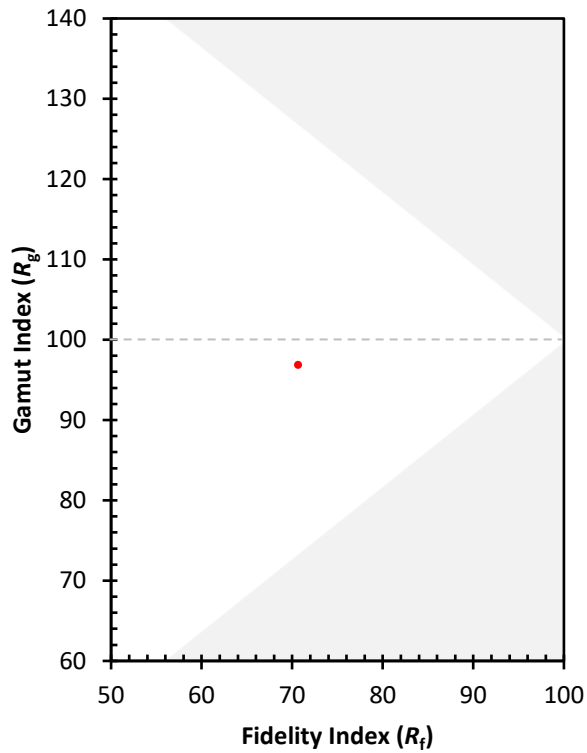
CES01 = 85	CES26 = 53	CES51 = 87	CES76 = 42
CES02 = 59	CES27 = 78	CES52 = 88	CES77 = 64
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 45
CES04 = 69	CES29 = 48	CES54 = 80	CES79 = 74
CES05 = 46	CES30 = 56	CES55 = 79	CES80 = 71
CES06 = 50	CES31 = 54	CES56 = 68	CES81 = 72
CES07 = 39	CES32 = 50	CES57 = 65	CES82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