

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: P1049582

Luminaire Tested: **GALN-SA4B-730-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049582
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-730-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 4xLight Square PACKAGE
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15964 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

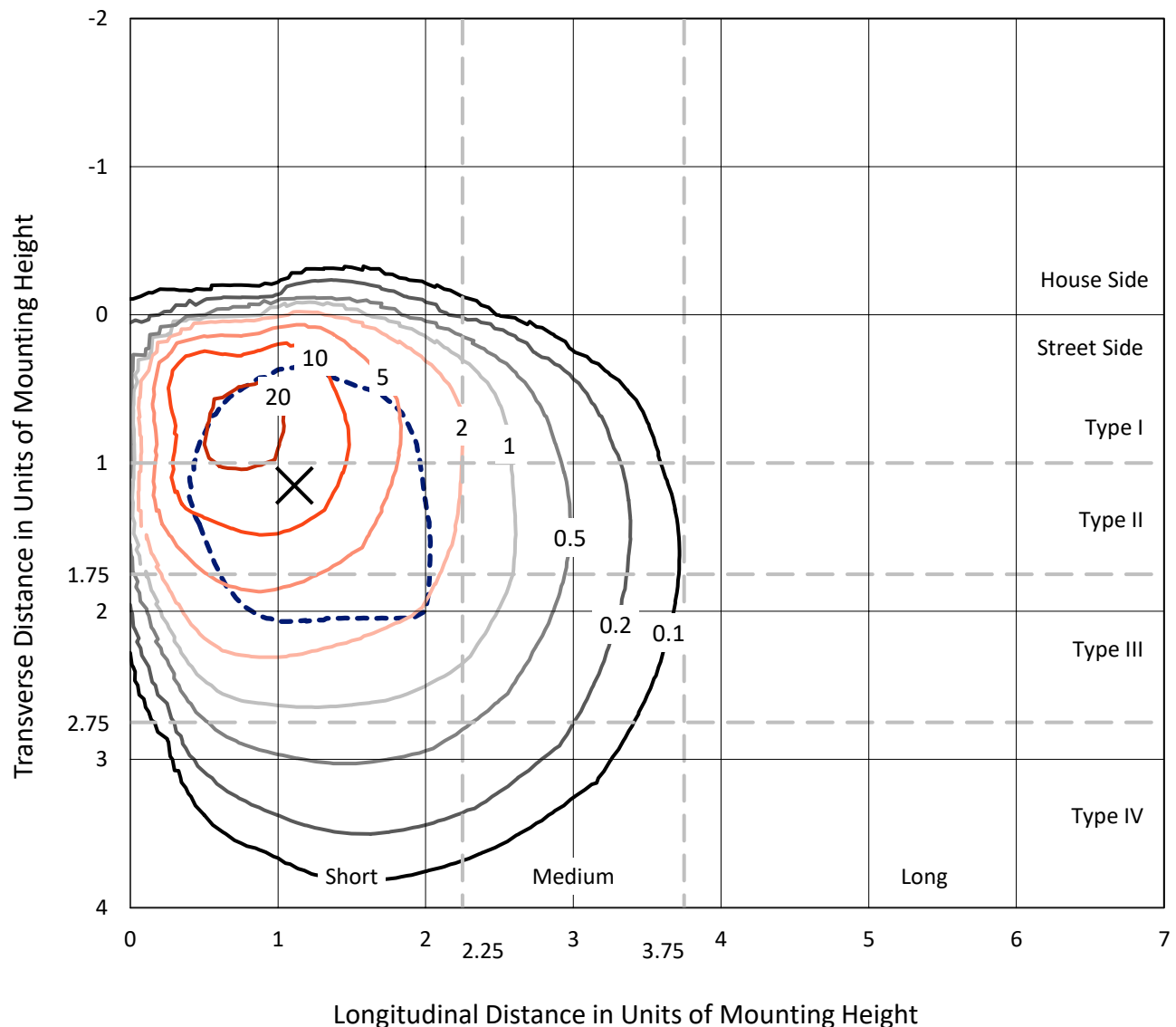
Input Watts (W): 144.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

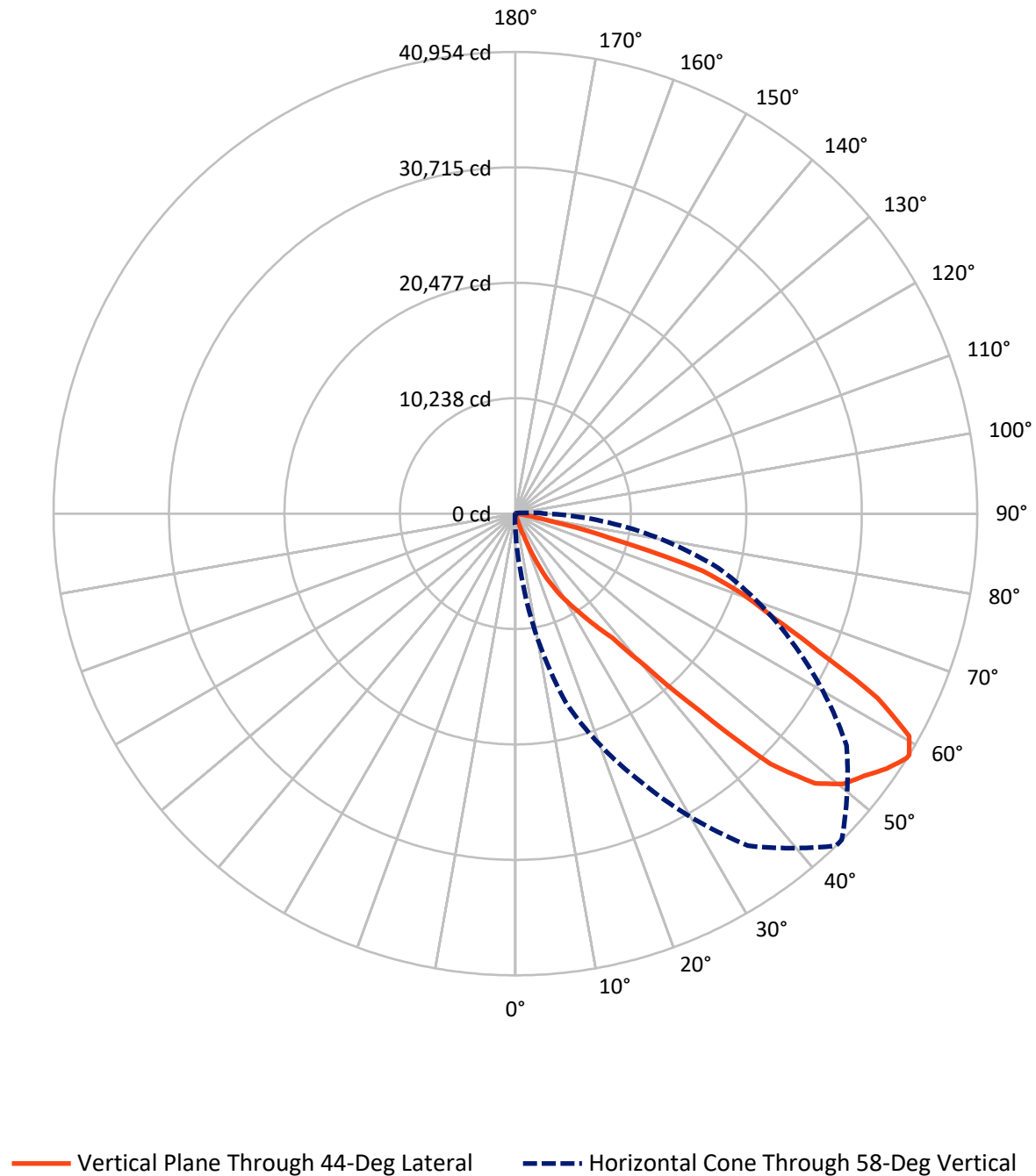
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 27.8 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	109.0	0.0	109.0
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	15855.0	0.0	15855.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	15964.0	0.0	15964.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	0.0
10°-20°	35.0	0.2
20°-30°	378.2	2.4
30°-40°	1118.4	7.0
40°-50°	3333.5	20.9
50°-60°	5289.5	33.1
60°-70°	4412.1	27.6
70°-80°	1360.8	8.5
80°-90°	30.2	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°	15964.0	100.0
0°-180°	15964.0	100.0



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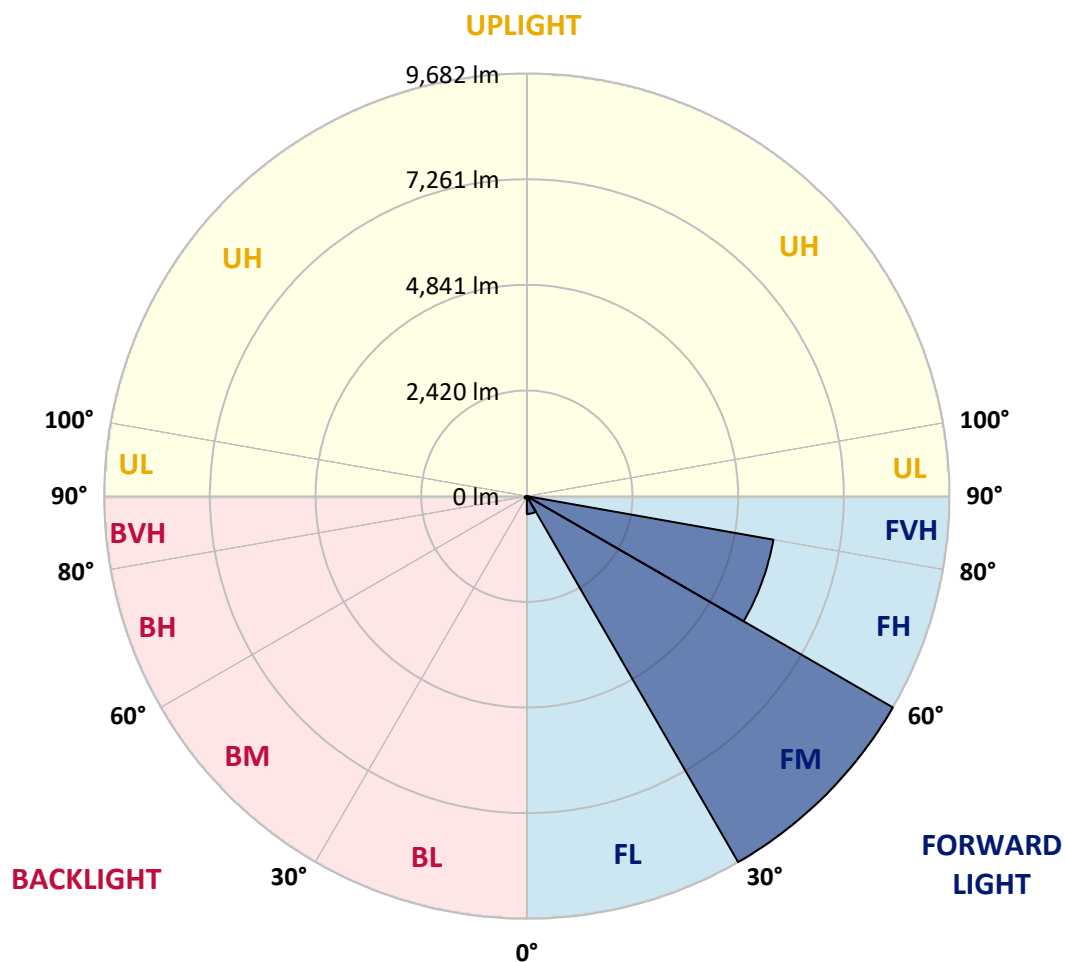
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	408.8	2.6			
FM	(30°-60°)	9681.8	60.6			
FH	(60°-80°)	5735.6	35.9			G3/7500
FVH	(80°-90°)	28.8	0.2			G1/100
BL	(0°-30°)	10.7	0.1	B0/110		
BM	(30°-60°)	59.7	0.4	B0/220		
BH	(60°-80°)	37.2	0.2	B0/110		G0/110
BVH	(80°-90°)	1.5	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
2.5°	90.4	90.4	86.8	82.0	77.2	72.4	71.2	68.7	67.5	66.3
5°	94.1	94.1	92.9	89.2	84.4	80.8	80.8	77.2	74.8	72.4
7.5°	96.5	97.7	100.1	98.9	96.5	92.9	92.9	90.4	86.8	80.8
10°	100.1	103.7	108.5	110.9	112.2	112.2	110.9	109.7	103.7	95.3
12.5°	103.7	110.9	123.0	135.1	142.3	151.9	150.7	148.3	132.7	114.6
15°	110.9	121.8	147.1	182.1	236.4	270.1	283.4	271.3	219.5	154.4
17.5°	119.4	137.5	213.5	381.1	624.7	740.4	810.4	753.7	499.3	293.0
20°	127.8	167.6	396.8	987.7	1620.8	1999.5	2104.4	1940.4	1245.7	558.4
22.5°	142.3	235.2	804.4	2041.7	3492.4	4060.4	4167.7	3643.2	2352.8	1102.2
25°	172.4	341.3	1386.8	3327.2	5212.1	6170.8	6126.2	5438.8	3816.8	1760.7
27.5°	215.9	496.8	2097.1	4727.3	6859.4	7704.8	7806.1	6955.9	5087.9	2589.2
30°	278.6	688.6	2859.3	5848.8	8179.9	9094.0	9110.9	8231.8	6225.1	3316.3
32.5°	338.9	869.5	3526.2	6933.0	9481.1	10483.3	10558.0	9476.3	7074.1	4073.7
35°	384.7	987.7	4201.5	7885.7	10793.2	12174.0	12169.2	10884.8	8079.8	4750.2
37.5°	388.3	1105.9	4812.9	8860.1	12455.0	14001.0	14154.2	12738.4	9295.4	5587.1
40°	379.9	1238.5	5587.1	10379.6	15449.3	17821.4	17956.5	16171.7	11733.8	7019.8
42.5°	389.5	1468.8	6843.7	13185.8	20421.4	23828.2	24088.7	22212.3	16216.3	9943.0
45°	440.2	1901.8	9476.3	17880.5	27508.8	31662.0	31575.2	28872.7	21432.0	14392.9
47.5°	607.8	2961.8	13378.7	22449.8	32038.3	35736.9	35811.7	32508.6	24475.8	17814.2
50°	934.6	4531.9	16657.7	24865.3	33985.9	37696.6	37626.6	33809.8	25632.3	19498.9
52.5°	1215.6	5667.9	18302.6	25713.1	34235.5	38665.0	38660.1	34152.3	25812.0	19643.6
55°	1285.5	5753.6	18315.9	25759.0	34795.1	39932.4	40091.6	34995.3	26044.8	19011.7
57.5°	1257.8	5093.9	17551.3	26024.3	35791.2	40912.8	40921.3	35811.7	26635.7	18624.6
58°	1233.7	4990.2	17396.9	26175.0	35962.4	40953.8	40933.3	35849.1	27116.8	18610.1
60°	1098.6	4333.0	16795.2	26559.7	35708.0	40112.1	39920.3	35032.7	27045.7	18461.8
62.5°	863.5	3380.3	16203.1	26114.7	32980.1	36037.2	36116.8	31015.7	24655.5	17597.1
65°	687.4	2519.2	14968.2	22906.9	27157.8	29593.9	29890.5	25221.1	20579.4	14900.6
67.5°	547.5	1821.0	12556.3	18237.5	21489.9	24698.9	24914.8	21175.2	15943.8	11416.7
70°	445.0	1231.3	8667.1	13337.7	17725.0	21333.1	21346.4	17591.1	11900.2	7480.5
72.5°	394.3	852.6	5031.2	9727.1	14372.4	17383.7	17032.7	14274.8	9145.9	4430.6
75°	341.3	565.6	2467.4	5946.5	8714.1	8773.2	8907.1	6621.8	4571.7	2106.8
77.5°	281.0	401.6	972.0	1624.4	2613.3	3345.3	3469.5	2629.0	1520.7	518.6
80°	193.0	190.5	261.7	498.1	747.7	937.0	874.3	676.5	398.0	199.0
82.5°	83.2	90.4	118.2	142.3	115.8	112.2	107.3	68.7	53.1	41.0
85°	26.5	24.1	25.3	25.3	20.5	15.7	15.7	7.2	0.0	0.0
87.5°	13.3	10.9	10.9	9.6	6.0	2.4	1.2	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°
69.9	0°	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
65.1	2.5°	63.9	63.9	61.5	59.1	57.9	55.5	54.3	53.1	51.9	50.6
69.9	5°	67.5	66.3	62.7	59.1	55.5	51.9	49.4	47.0	44.6	43.4
77.2	7.5°	73.6	71.2	63.9	57.9	53.1	48.2	45.8	42.2	39.8	36.2
85.6	10°	80.8	76.0	66.3	59.1	51.9	45.8	42.2	38.6	35.0	30.1
97.7	12.5°	90.4	82.0	69.9	57.9	49.4	42.2	38.6	33.8	30.1	26.5
113.4	15°	98.9	88.0	71.2	57.9	47.0	38.6	33.8	28.9	25.3	20.5
142.3	17.5°	110.9	92.9	69.9	54.3	43.4	33.8	28.9	25.3	19.3	12.1
211.0	20°	131.4	96.5	67.5	50.6	37.4	27.7	21.7	16.9	8.4	2.4
317.2	22.5°	164.0	106.1	65.1	45.8	32.6	21.7	14.5	6.0	0.0	0.0
482.4	25°	226.7	123.0	65.1	43.4	28.9	15.7	4.8	0.0	0.0	0.0
685.0	27.5°	301.5	145.9	65.1	37.4	22.9	8.4	0.0	0.0	0.0	0.0
933.4	30°	377.5	171.2	65.1	32.6	18.1	1.2	0.0	0.0	0.0	0.0
1149.3	32.5°	449.8	193.0	66.3	27.7	12.1	0.0	0.0	0.0	0.0	0.0
1448.3	35°	523.4	196.6	65.1	24.1	7.2	0.0	0.0	0.0	0.0	0.0
1814.9	37.5°	617.4	189.3	61.5	21.7	3.6	0.0	0.0	0.0	0.0	0.0
2387.8	40°	759.7	193.0	57.9	20.5	1.2	0.0	0.0	0.0	0.0	0.0
3409.2	42.5°	1022.6	208.6	53.1	20.5	0.0	0.0	0.0	0.0	0.0	0.0
5430.4	45°	1767.9	279.8	48.2	21.7	0.0	0.0	0.0	0.0	0.0	0.0
8152.2	47.5°	2924.4	502.9	47.0	21.7	0.0	0.0	0.0	0.0	0.0	0.0
9820.0	50°	3732.4	633.1	49.4	22.9	0.0	0.0	0.0	0.0	0.0	0.0
10028.6	52.5°	3726.4	705.5	51.9	24.1	4.8	0.0	0.0	0.0	0.0	0.0
9243.6	55°	3312.7	718.7	55.5	26.5	15.7	0.0	0.0	0.0	0.0	0.0
7943.5	57.5°	2768.8	656.0	63.9	32.6	28.9	0.0	0.0	0.0	0.0	0.0
7739.7	58°	2672.4	627.1	66.3	33.8	31.4	0.0	0.0	0.0	0.0	0.0
6713.5	60°	2190.0	511.3	84.4	42.2	42.2	0.0	0.0	0.0	0.0	0.0
5503.9	62.5°	1512.3	446.2	96.5	54.3	43.4	0.0	0.0	0.0	0.0	0.0
4058.0	65°	1069.7	402.8	104.9	57.9	35.0	0.0	0.0	0.0	0.0	0.0
2883.4	67.5°	799.5	371.4	115.8	59.1	18.1	0.0	0.0	0.0	0.0	0.0
1808.9	70°	612.6	348.5	142.3	62.7	4.8	0.0	0.0	0.0	0.0	0.0
1078.1	72.5°	499.3	322.0	172.4	65.1	0.0	0.0	0.0	0.0	0.0	0.0
646.4	75°	413.6	290.6	166.4	71.2	0.0	0.0	0.0	0.0	0.0	0.0
344.9	77.5°	275.0	225.5	151.9	71.2	0.0	0.0	0.0	0.0	0.0	0.0
123.0	80°	96.5	89.2	118.2	62.7	0.0	0.0	0.0	0.0	0.0	0.0
25.3	82.5°	14.5	12.1	16.9	21.7	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°
69.9	0°	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
49.4	2.5°	49.4	49.4	48.2	49.4	49.4	51.9	57.9	66.3	76.0	79.6
42.2	5°	41.0	39.8	38.6	38.6	38.6	42.2	47.0	56.7	67.5	72.4
35.0	7.5°	33.8	32.6	31.4	30.1	30.1	32.6	38.6	49.4	60.3	65.1
28.9	10°	27.7	25.3	24.1	22.9	22.9	25.3	31.4	42.2	54.3	59.1
24.1	12.5°	22.9	19.3	16.9	15.7	14.5	18.1	24.1	33.8	47.0	53.1
18.1	15°	15.7	12.1	8.4	7.2	6.0	9.6	15.7	26.5	39.8	47.0
9.6	17.5°	8.4	3.6	1.2	0.0	0.0	2.4	7.2	19.3	32.6	38.6
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	24.1	30.1
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	14.5	20.5
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	10.9
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
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	3.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.6
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°
69.9	0°	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
83.2	2.5°	85.6	84.4	82.0	79.6	79.6	79.6	83.2	86.8	90.4	90.4
74.8	5°	79.6	79.6	78.4	76.0	76.0	77.2	82.0	88.0	92.9	94.1
68.7	7.5°	73.6	76.0	73.6	72.4	73.6	74.8	79.6	86.8	94.1	96.5
63.9	10°	69.9	71.2	71.2	69.9	69.9	72.4	77.2	86.8	96.5	100.1
57.9	12.5°	65.1	67.5	66.3	66.3	66.3	68.7	74.8	85.6	98.9	103.7
51.9	15°	60.3	63.9	63.9	62.7	62.7	63.9	72.4	84.4	102.5	110.9
44.6	17.5°	55.5	59.1	60.3	57.9	57.9	60.3	68.7	84.4	104.9	119.4
36.2	20°	45.8	51.9	55.5	51.9	51.9	54.3	62.7	79.6	106.1	127.8
26.5	22.5°	36.2	42.2	47.0	45.8	45.8	47.0	57.9	76.0	107.3	142.3
15.7	25°	26.5	32.6	36.2	38.6	38.6	42.2	53.1	73.6	112.2	172.4
7.2	27.5°	15.7	22.9	27.7	30.1	31.4	36.2	49.4	71.2	120.6	215.9
0.0	30°	7.2	13.3	19.3	24.1	24.1	32.6	45.8	68.7	131.4	278.6
0.0	32.5°	0.0	6.0	9.6	16.9	18.1	26.5	42.2	66.3	147.1	338.9
0.0	35°	0.0	0.0	4.8	13.3	13.3	21.7	38.6	63.9	171.2	384.7
0.0	37.5°	0.0	0.0	0.0	9.6	10.9	19.3	37.4	62.7	176.1	388.3
0.0	40°	0.0	0.0	0.0	7.2	8.4	18.1	37.4	63.9	159.2	379.9
0.0	42.5°	0.0	0.0	0.0	4.8	6.0	18.1	37.4	66.3	143.5	389.5
0.0	45°	0.0	0.0	0.0	3.6	4.8	19.3	36.2	65.1	135.1	440.2
0.0	47.5°	0.0	0.0	0.0	4.8	7.2	19.3	35.0	63.9	136.3	607.8
0.0	50°	0.0	0.0	0.0	6.0	8.4	19.3	36.2	61.5	149.5	934.6
0.0	52.5°	0.0	0.0	0.0	4.8	7.2	21.7	39.8	60.3	162.8	1215.6
0.0	55°	0.0	0.0	0.0	1.2	3.6	27.7	43.4	60.3	183.3	1285.5
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	31.4	49.4	63.9	217.1	1257.8
0.0	58°	0.0	0.0	0.0	0.0	0.0	31.4	50.6	63.9	219.5	1233.7
0.0	60°	0.0	0.0	0.0	0.0	0.0	31.4	55.5	71.2	236.4	1098.6
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	26.5	66.3	89.2	246.0	863.5
0.0	65°	0.0	0.0	0.0	0.0	0.0	21.7	78.4	97.7	253.2	687.4
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	20.5	80.8	98.9	256.9	547.5
0.0	70°	0.0	0.0	0.0	0.0	0.0	21.7	79.6	106.1	268.9	445.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	24.1	72.4	117.0	268.9	394.3
0.0	75°	0.0	0.0	0.0	0.0	0.0	25.3	67.5	131.4	244.8	341.3
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	24.1	66.3	153.2	218.3	281.0
0.0	80°	2.4	3.6	3.6	2.4	2.4	20.5	65.1	155.6	185.7	193.0
1.2	82.5°	7.2	9.6	8.4	6.0	6.0	18.1	57.9	130.2	96.5	83.2
7.2	85°	13.3	15.7	15.7	13.3	13.3	16.9	36.2	47.0	32.6	26.5
13.3	87.5°	18.1	20.5	20.5	18.1	18.1	16.9	15.7	14.5	13.3	13.3
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: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

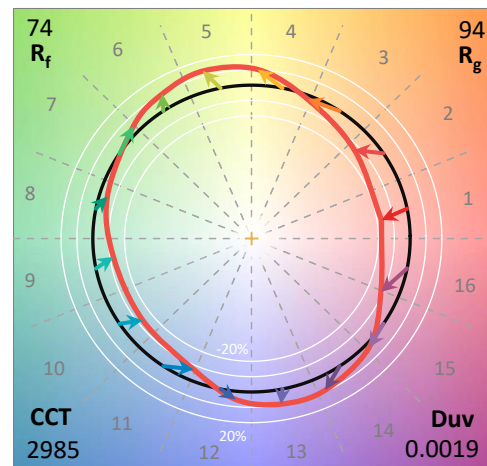
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-4
 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-730-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K):	2985	CRI (Ra):	70.8		
CIE u':	0.2504	R1:	66.3	R9:	-43.2
CIE v':	0.5243	R2:	80.6	R10:	57.6
Duv:	0.0019	R3:	94.5	R11:	64.8
CIE x:	0.4408	R4:	68.2	R12:	53.5
CIE y:	0.4101	R5:	66.5	R13:	68.7
CIE z:	0.1491	R6:	74.7	R14:	97.0
Peak Wavelength (nm):	595	R7:	76.2	R15:	56.4
Dominant Wavelength (nm):	582	R8:	39.6		
Purity:	55.41818				
Rf:	73.8				
Rg:	94.4				



Test Conditions

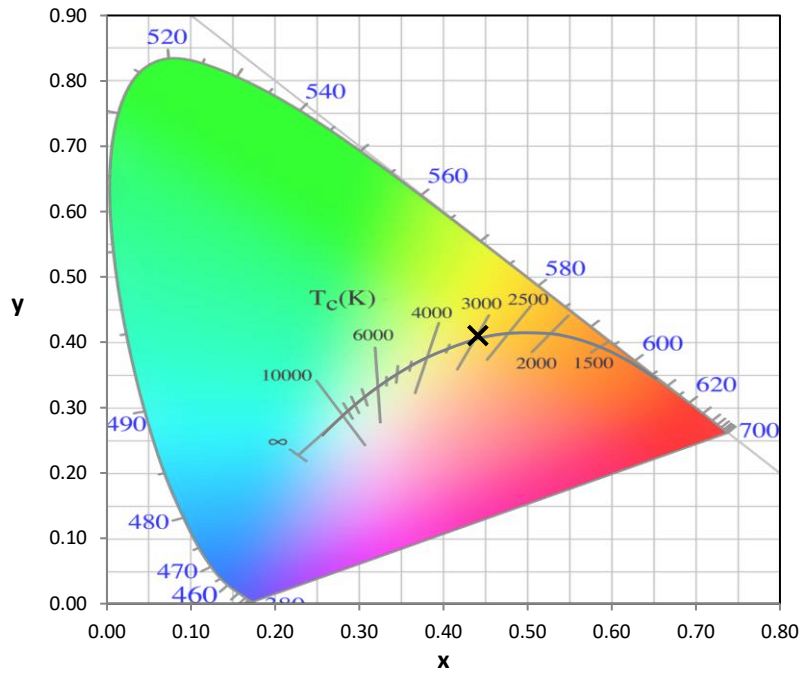
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

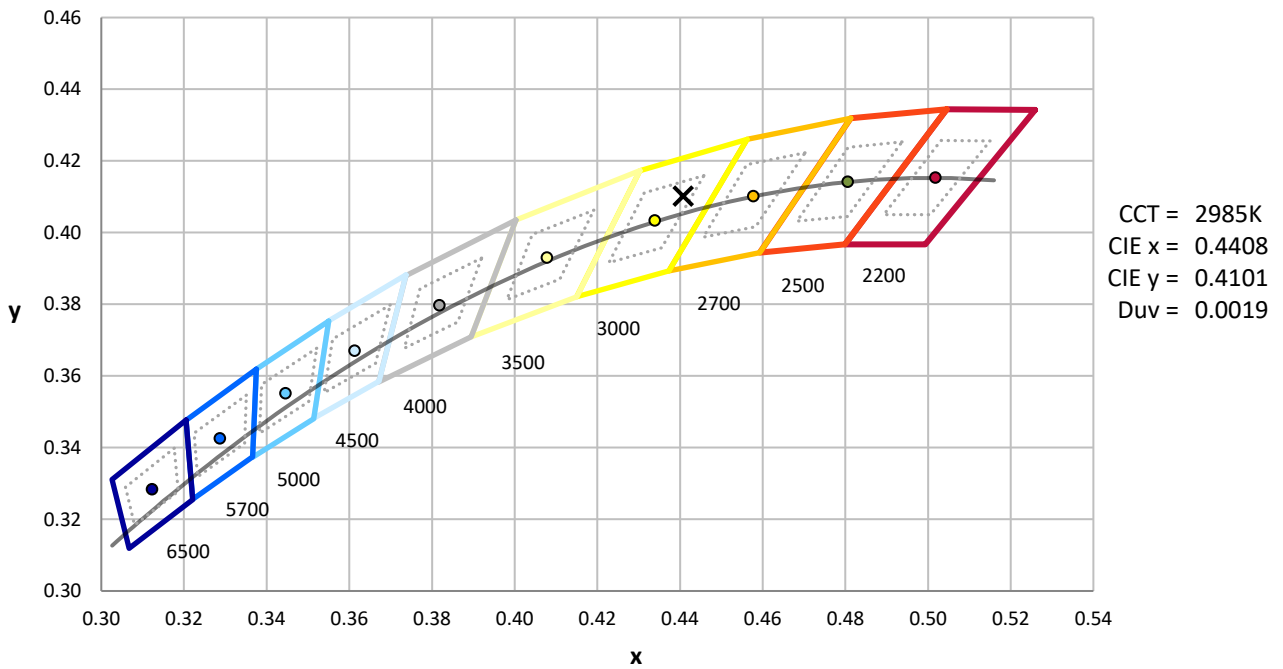
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-4

CIE 1931 Chromaticity Diagram



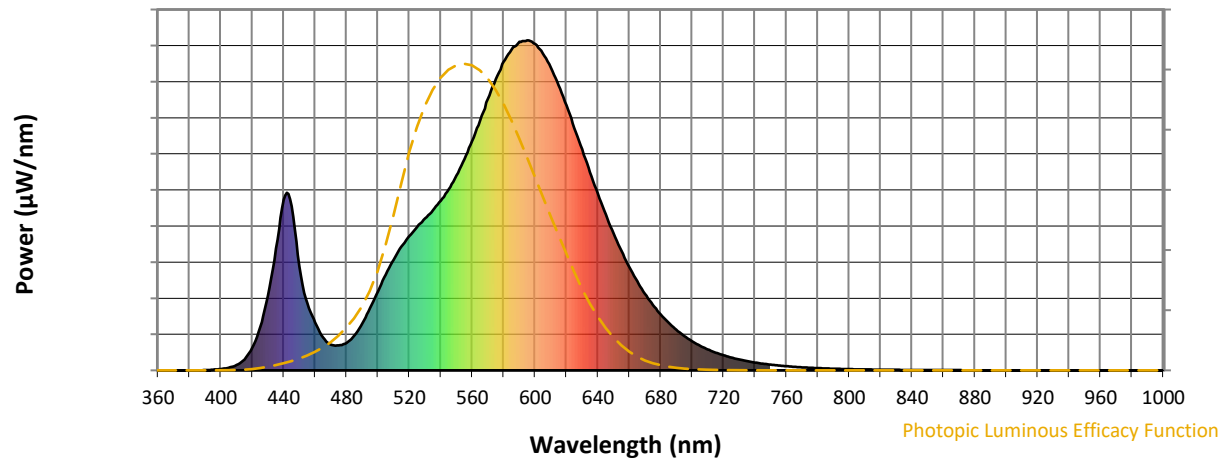
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

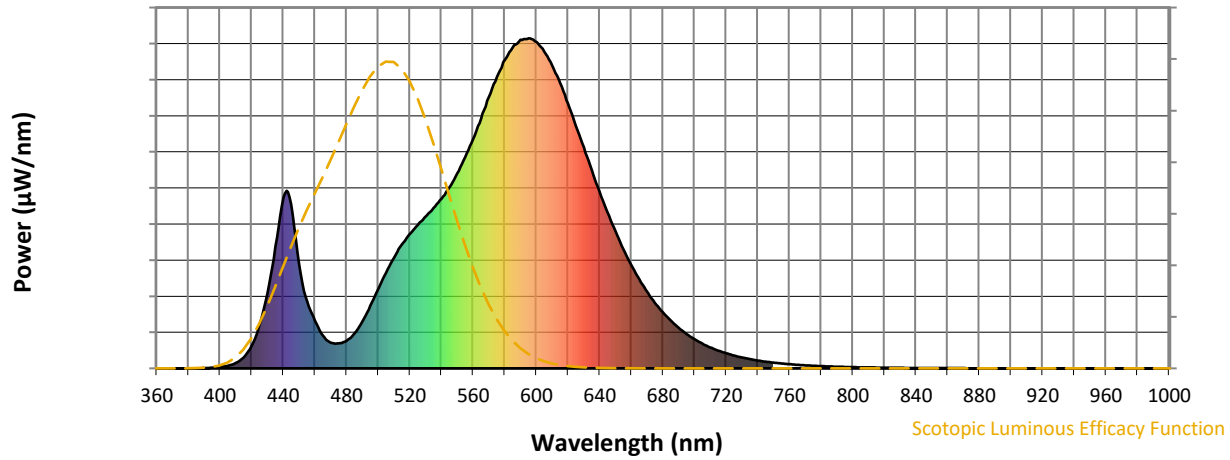


Photopic Lumens: NR

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Scotopic Flux vs. Wavelength



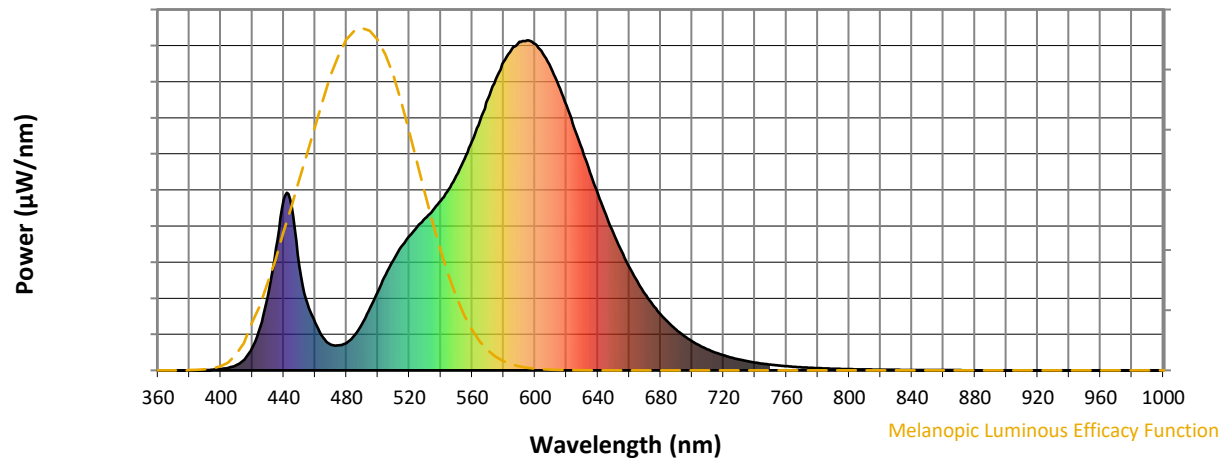
Scotopic Lumens: NR

S/P: 1.19

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.13

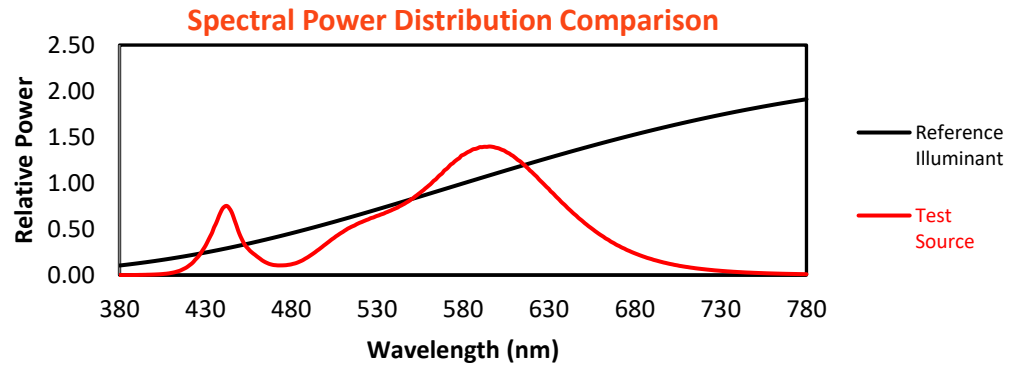
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

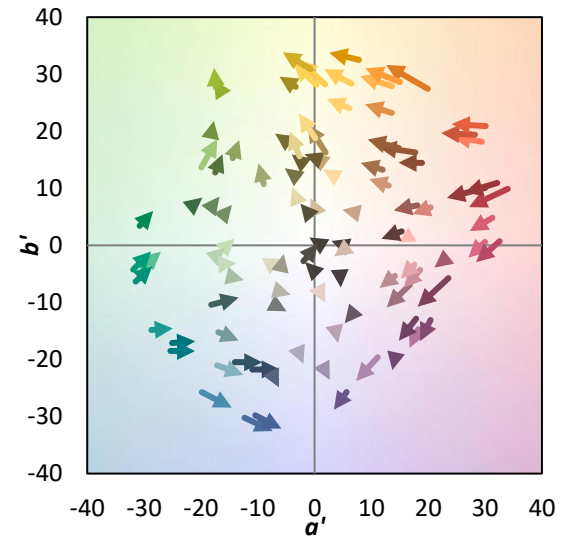
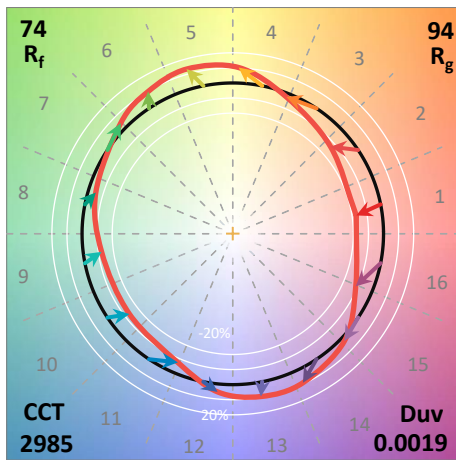
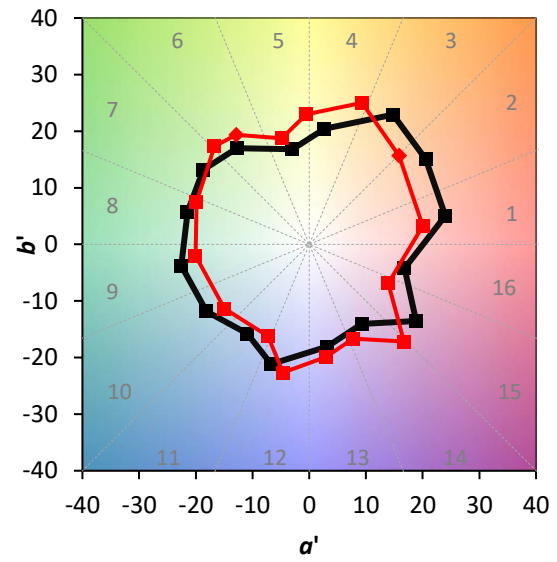
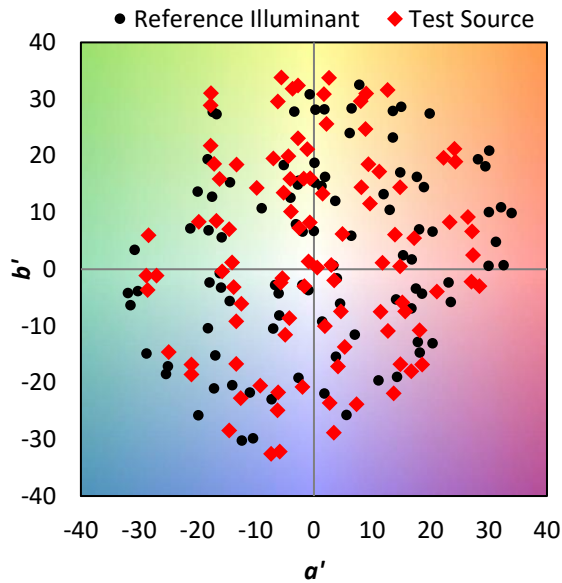
TM-30-18

Summary

$R_f = 73.8$
 $R_g = 94.4$
 $CIE R_a = 70.8$
 $R_g = -43.2$

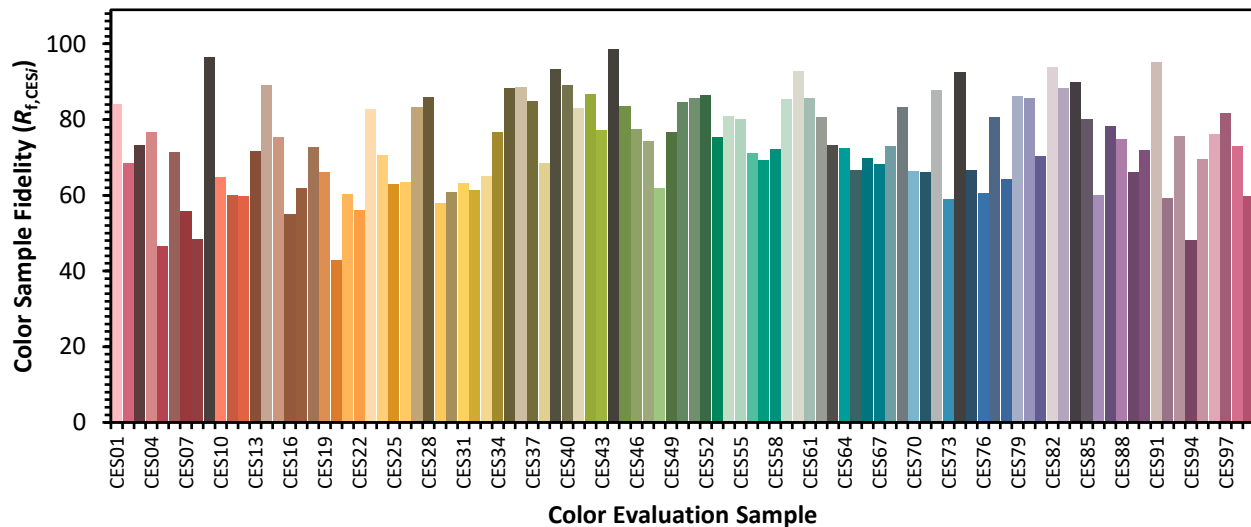


Color Vector Graphics

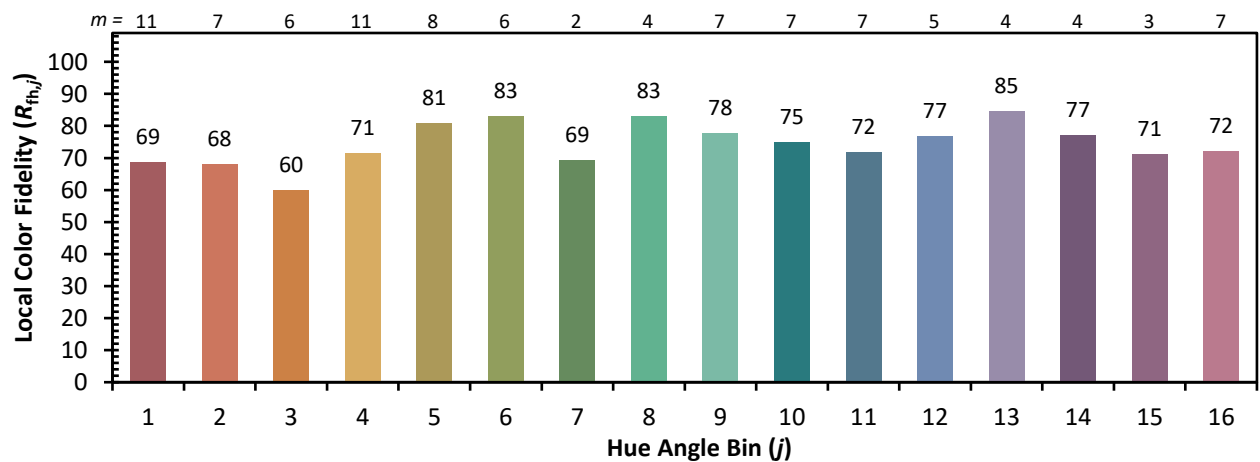
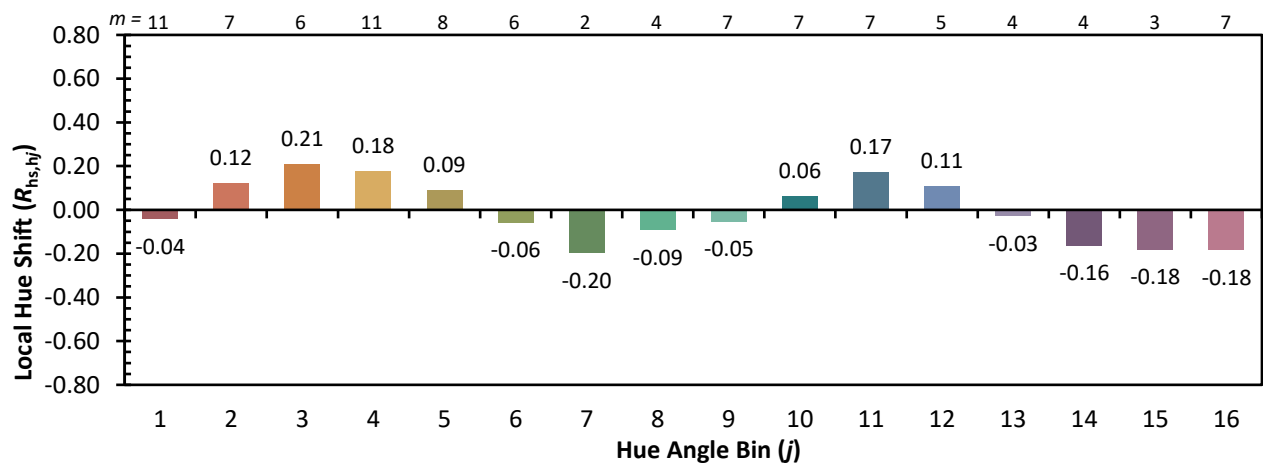
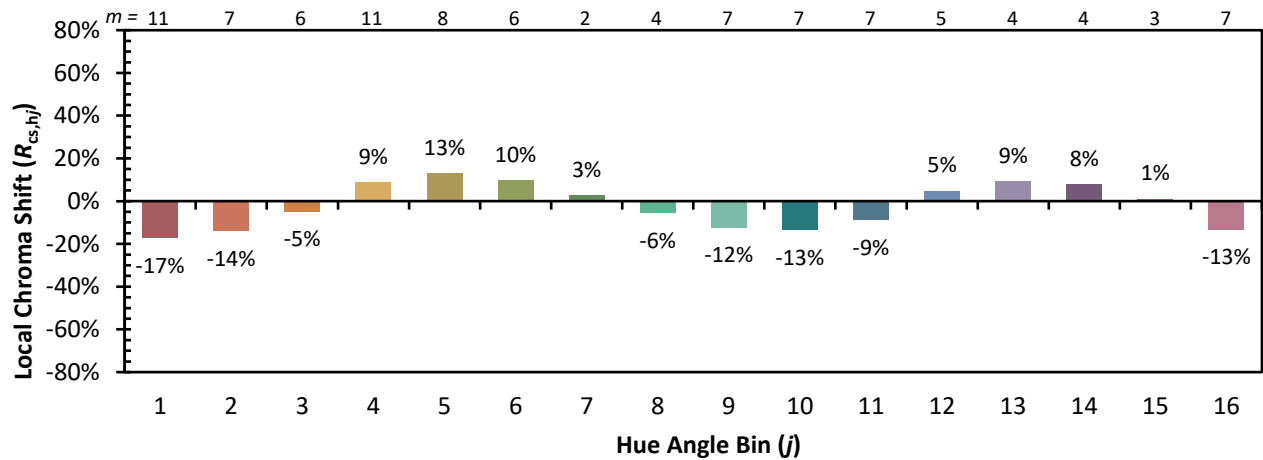


Individual Sample Fidelity Index ($R_{f,i}$)

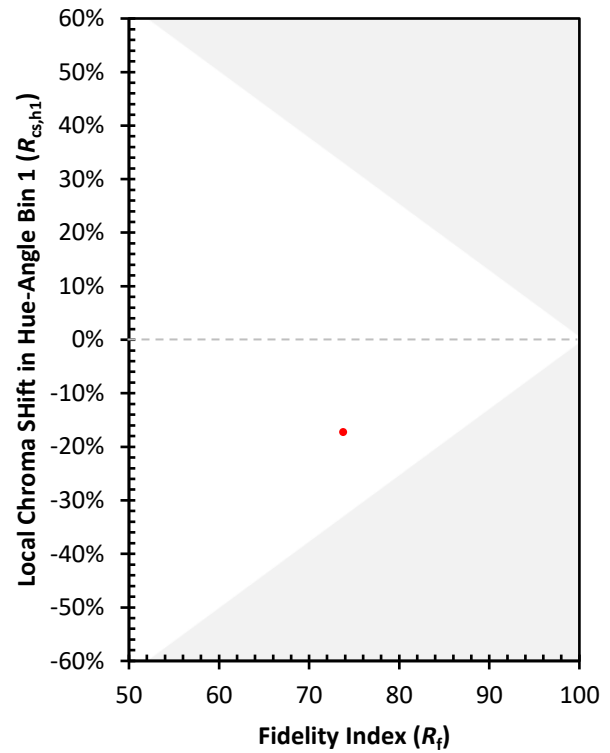
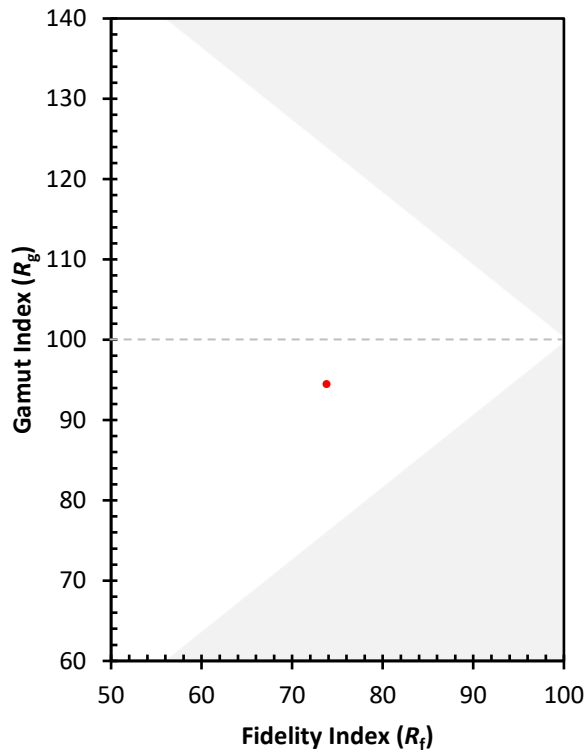
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 94
CES08 = 40	CES33 = 65	CES58 = 72	CES83 = 88
CES09 = 29	CES34 = 77	CES59 = 85	CES84 = 90
CES10 = 76	CES35 = 88	CES60 = 93	CES85 = 80
CES11 = 59	CES36 = 89	CES61 = 86	CES86 = 60
CES12 = 65	CES37 = 85	CES62 = 81	CES87 = 78
CES13 = 43	CES38 = 69	CES63 = 73	CES88 = 75
CES14 = 74	CES39 = 93	CES64 = 72	CES89 = 66
CES15 = 71	CES40 = 89	CES65 = 67	CES90 = 72
CES16 = 47	CES41 = 83	CES66 = 70	CES91 = 95
CES17 = 50	CES42 = 87	CES67 = 68	CES92 = 59
CES18 = 56	CES43 = 77	CES68 = 73	CES93 = 76
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 66	CES45 = 83	CES70 = 66	CES95 = 70
CES21 = 87	CES46 = 77	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 74	CES72 = 88	CES97 = 82
CES23 = 92	CES48 = 62	CES73 = 59	CES98 = 73
CES24 = 91	CES49 = 77	CES74 = 93	CES99 = 60
CES25 = 73	CES50 = 85	CES75 = 67	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)