

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: P1049581

Luminaire Tested: **GALN-SA4A-730-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049581
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-730-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 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: 12909.8 lumens
Efficiency: N/A
Efficacy: 120.2 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): 107.4
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

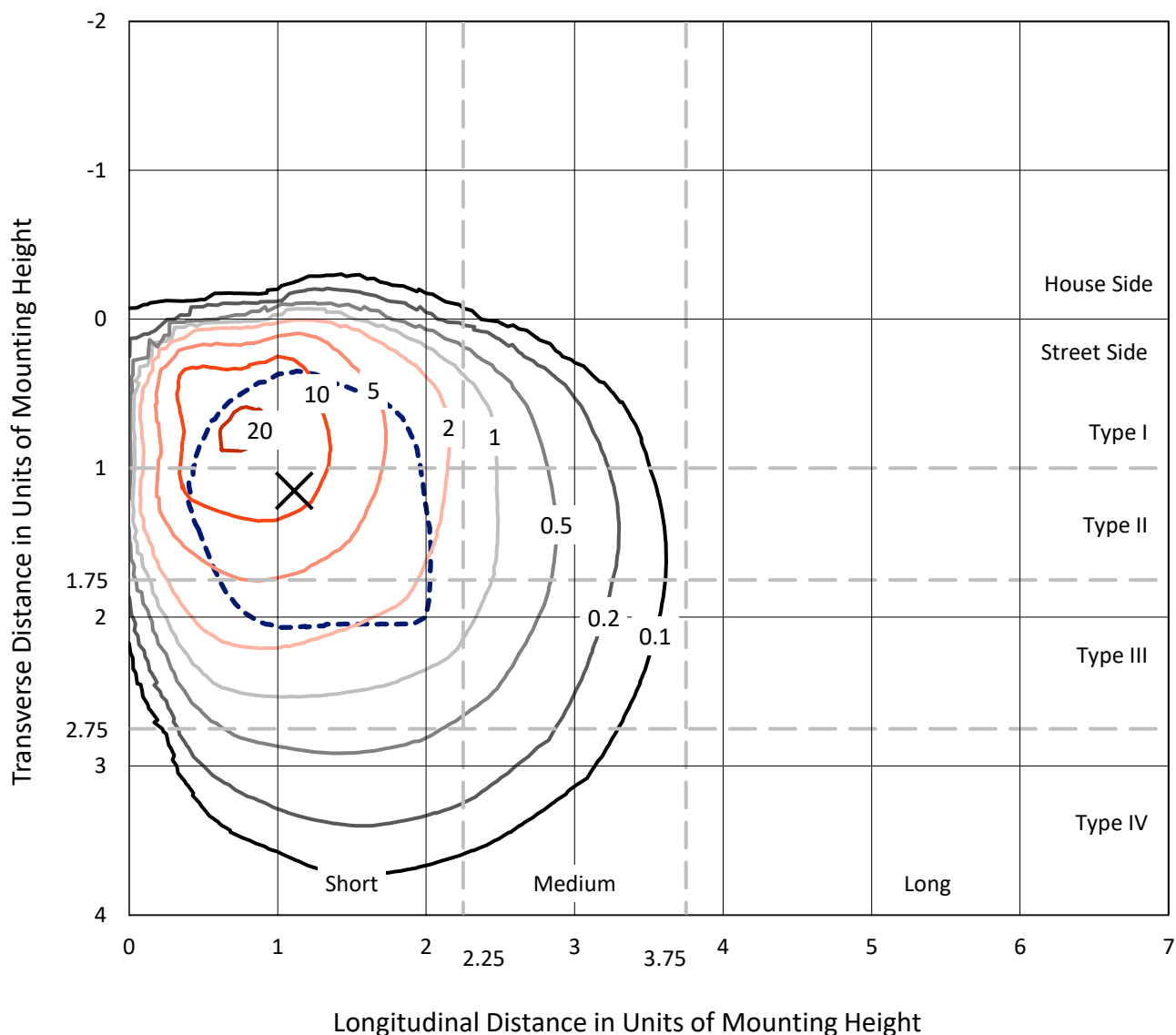
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

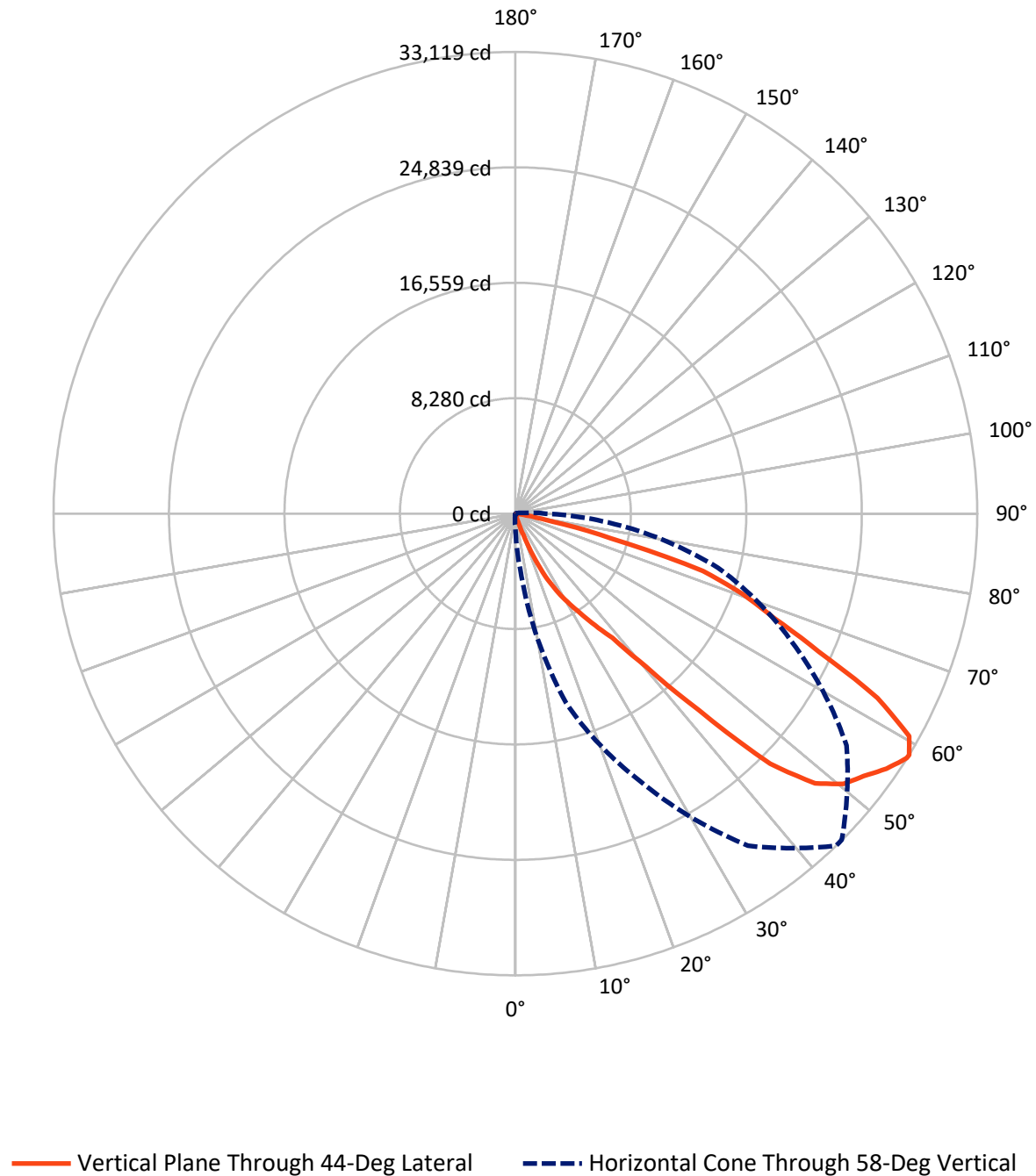


Based on 20 foot mounting height. Maximum calculated value = 22.5 fc

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	88.2	0.0	88.2
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	12821.6	0.0	12821.6
	% Fixture	99.3	0.0	99.3
Total	Lumens	12909.8	0.0	12909.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	0.0
10°-20°	28.3	0.2
20°-30°	305.8	2.4
30°-40°	904.5	7.0
40°-50°	2695.8	20.9
50°-60°	4277.5	33.1
60°-70°	3568.0	27.6
70°-80°	1100.4	8.5
80°-90°	24.4	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°	12909.8	100.0
0°-180°	12909.8	100.0



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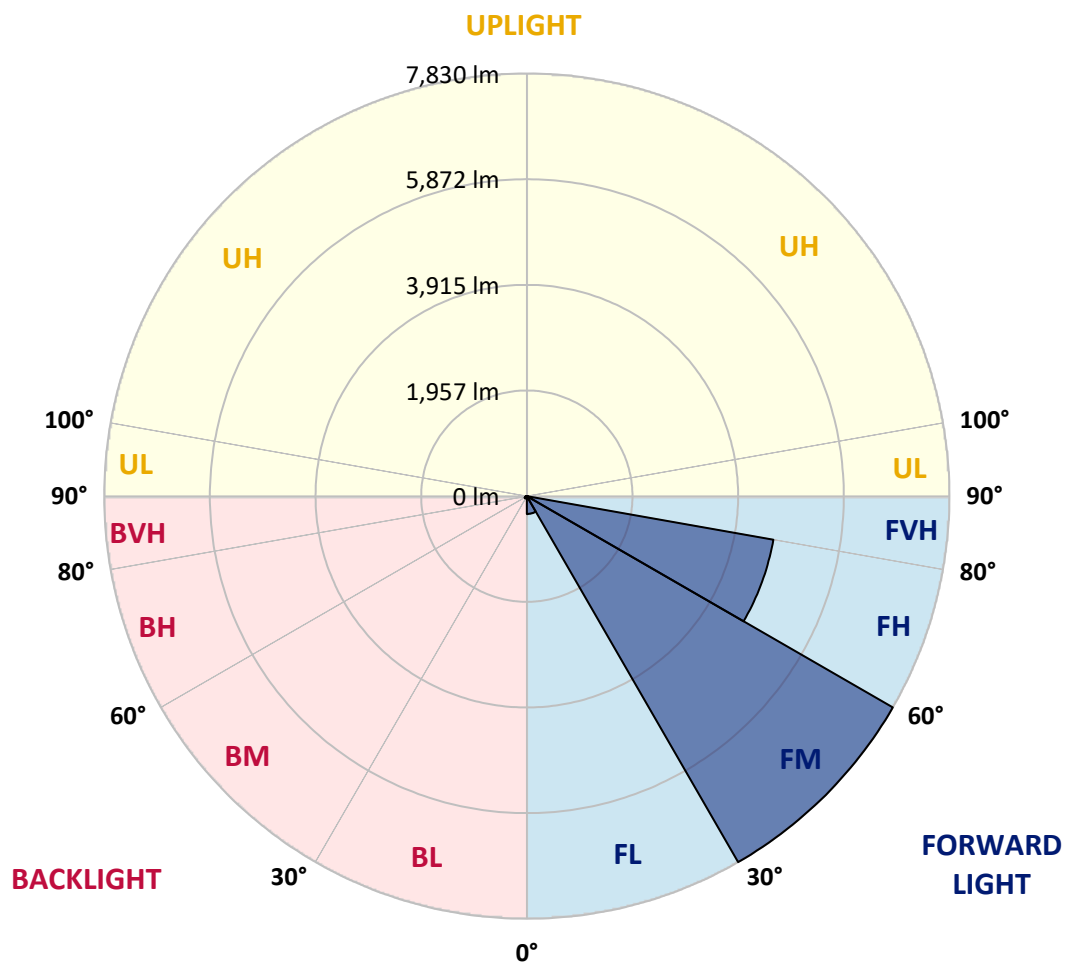
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	330.6	2.6			
FM	(30°-60°)	7829.5	60.6			
FH	(60°-80°)	4638.3	35.9			G2/5000
FVH	(80°-90°)	23.3	0.2			G1/100
BL	(0°-30°)	8.6	0.1	B0/110		
BM	(30°-60°)	48.2	0.4	B0/220		
BH	(60°-80°)	30.1	0.2	B0/110		G0/110
BVH	(80°-90°)	1.2	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°	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
2.5°	73.1	73.1	70.2	66.3	62.4	58.5	57.5	55.6	54.6	53.6
5°	76.1	76.1	75.1	72.2	68.3	65.3	65.3	62.4	60.5	58.5
7.5°	78.0	79.0	80.9	80.0	78.0	75.1	75.1	73.1	70.2	65.3
10°	80.9	83.9	87.8	89.7	90.7	90.7	89.7	88.7	83.9	77.0
12.5°	83.9	89.7	99.5	109.2	115.1	122.9	121.9	120.0	107.3	92.6
15°	89.7	98.5	119.0	147.3	191.1	218.5	229.2	219.4	177.5	124.8
17.5°	96.5	111.2	172.6	308.2	505.2	598.8	655.4	609.5	403.7	237.0
20°	103.4	135.6	320.8	798.7	1310.7	1616.9	1701.8	1569.1	1007.4	451.5
22.5°	115.1	190.2	650.5	1651.1	2824.3	3283.6	3370.4	2946.2	1902.7	891.4
25°	139.5	276.0	1121.5	2690.6	4214.9	4990.2	4954.1	4398.3	3086.6	1423.8
27.5°	174.6	401.8	1695.9	3822.9	5547.1	6230.7	6312.6	5625.1	4114.5	2093.8
30°	225.3	556.9	2312.3	4729.8	6614.9	7354.2	7367.8	6656.9	5034.1	2681.9
32.5°	274.0	703.1	2851.6	5606.6	7667.2	8477.6	8538.1	7663.3	5720.7	3294.3
35°	311.1	798.7	3397.7	6377.0	8728.3	9844.9	9841.0	8802.4	6534.0	3841.4
37.5°	314.0	894.3	3892.1	7165.0	10072.1	11322.4	11446.2	10301.3	7517.0	4518.2
40°	307.2	1001.6	4518.2	8393.8	12493.6	14411.9	14521.1	13077.8	9488.9	5676.8
42.5°	315.0	1187.8	5534.4	10663.1	16514.5	19269.5	19480.1	17962.7	13113.8	8040.7
45°	356.0	1537.9	7663.3	14459.7	22245.8	25604.5	25534.3	23348.8	17331.7	11639.3
47.5°	491.5	2395.2	10819.1	18154.8	25908.8	28899.8	28960.3	26289.1	19793.2	14406.0
50°	755.8	3664.9	13470.8	20108.2	27483.8	30484.5	30428.0	27341.4	20728.4	15768.4
52.5°	983.0	4583.6	14801.0	20793.7	27685.6	31267.6	31263.7	27618.4	20873.7	15885.4
55°	1039.6	4652.8	14811.7	20830.8	28138.2	32292.6	32421.3	28300.0	21061.9	15374.4
57.5°	1017.2	4119.3	14193.4	21045.3	28943.7	33085.5	33092.3	28960.3	21539.8	15061.4
58°	997.7	4035.5	14068.6	21167.2	29082.2	33118.6	33102.0	28990.5	21928.9	15049.7
60°	888.4	3504.0	13582.0	21478.3	28876.4	32437.9	32282.9	28330.3	21871.4	14929.7
62.5°	698.3	2733.6	13103.1	21118.5	26670.4	29142.6	29207.0	25081.8	19938.5	14230.5
65°	555.9	2037.2	12104.5	18524.4	21962.1	23932.0	24171.9	20395.8	16642.2	12049.9
67.5°	442.8	1472.6	10154.0	14748.3	17378.5	19973.6	20148.1	17124.0	12893.4	9232.5
70°	359.9	995.7	7008.9	10786.0	14333.9	17251.7	17262.4	14225.6	9623.5	6049.3
72.5°	318.9	689.5	4068.6	7866.2	11622.7	14057.9	13774.1	11543.7	7396.1	3583.0
75°	276.0	457.4	1995.3	4808.8	7047.0	7094.8	7203.0	5355.0	3697.1	1703.7
77.5°	227.2	324.7	786.0	1313.6	2113.3	2705.3	2805.7	2126.0	1229.8	419.3
80°	156.0	154.1	211.6	402.8	604.6	757.7	707.0	547.1	321.8	160.9
82.5°	67.3	73.1	95.6	115.1	93.6	90.7	86.8	55.6	42.9	33.2
85°	21.5	19.5	20.5	20.5	16.6	12.7	12.7	5.9	0.0	0.0
87.5°	10.7	8.8	8.8	7.8	4.9	2.0	1.0	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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
56.6	0°	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
52.7	2.5°	51.7	51.7	49.7	47.8	46.8	44.9	43.9	42.9	41.9	41.0
56.6	5°	54.6	53.6	50.7	47.8	44.9	41.9	40.0	38.0	36.1	35.1
62.4	7.5°	59.5	57.5	51.7	46.8	42.9	39.0	37.1	34.1	32.2	29.3
69.2	10°	65.3	61.4	53.6	47.8	41.9	37.1	34.1	31.2	28.3	24.4
79.0	12.5°	73.1	66.3	56.6	46.8	40.0	34.1	31.2	27.3	24.4	21.5
91.7	15°	80.0	71.2	57.5	46.8	38.0	31.2	27.3	23.4	20.5	16.6
115.1	17.5°	89.7	75.1	56.6	43.9	35.1	27.3	23.4	20.5	15.6	9.8
170.7	20°	106.3	78.0	54.6	41.0	30.2	22.4	17.6	13.7	6.8	2.0
256.5	22.5°	132.6	85.8	52.7	37.1	26.3	17.6	11.7	4.9	0.0	0.0
390.1	25°	183.3	99.5	52.7	35.1	23.4	12.7	3.9	0.0	0.0	0.0
553.9	27.5°	243.8	118.0	52.7	30.2	18.5	6.8	0.0	0.0	0.0	0.0
754.8	30°	305.2	138.5	52.7	26.3	14.6	1.0	0.0	0.0	0.0	0.0
929.4	32.5°	363.8	156.0	53.6	22.4	9.8	0.0	0.0	0.0	0.0	0.0
1171.2	35°	423.2	159.0	52.7	19.5	5.9	0.0	0.0	0.0	0.0	0.0
1467.7	37.5°	499.3	153.1	49.7	17.6	2.9	0.0	0.0	0.0	0.0	0.0
1930.9	40°	614.4	156.0	46.8	16.6	1.0	0.0	0.0	0.0	0.0	0.0
2757.0	42.5°	827.0	168.7	42.9	16.6	0.0	0.0	0.0	0.0	0.0	0.0
4391.4	45°	1429.7	226.3	39.0	17.6	0.0	0.0	0.0	0.0	0.0	0.0
6592.5	47.5°	2364.9	406.7	38.0	17.6	0.0	0.0	0.0	0.0	0.0	0.0
7941.3	50°	3018.3	512.0	40.0	18.5	0.0	0.0	0.0	0.0	0.0	0.0
8110.0	52.5°	3013.4	570.5	41.9	19.5	3.9	0.0	0.0	0.0	0.0	0.0
7475.1	55°	2678.9	581.2	44.9	21.5	12.7	0.0	0.0	0.0	0.0	0.0
6423.8	57.5°	2239.1	530.5	51.7	26.3	23.4	0.0	0.0	0.0	0.0	0.0
6259.0	58°	2161.1	507.1	53.6	27.3	25.4	0.0	0.0	0.0	0.0	0.0
5429.1	60°	1771.0	413.5	68.3	34.1	34.1	0.0	0.0	0.0	0.0	0.0
4450.9	62.5°	1222.9	360.8	78.0	43.9	35.1	0.0	0.0	0.0	0.0	0.0
3281.6	65°	865.0	325.7	84.8	46.8	28.3	0.0	0.0	0.0	0.0	0.0
2331.8	67.5°	646.6	300.4	93.6	47.8	14.6	0.0	0.0	0.0	0.0	0.0
1462.8	70°	495.4	281.8	115.1	50.7	3.9	0.0	0.0	0.0	0.0	0.0
871.9	72.5°	403.7	260.4	139.5	52.7	0.0	0.0	0.0	0.0	0.0	0.0
522.7	75°	334.5	235.0	134.6	57.5	0.0	0.0	0.0	0.0	0.0	0.0
278.9	77.5°	222.4	182.4	122.9	57.5	0.0	0.0	0.0	0.0	0.0	0.0
99.5	80°	78.0	72.2	95.6	50.7	0.0	0.0	0.0	0.0	0.0	0.0
20.5	82.5°	11.7	9.8	13.7	17.6	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°
56.6	0°	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
40.0	2.5°	40.0	40.0	39.0	40.0	40.0	41.9	46.8	53.6	61.4	64.4
34.1	5°	33.2	32.2	31.2	31.2	31.2	34.1	38.0	45.8	54.6	58.5
28.3	7.5°	27.3	26.3	25.4	24.4	24.4	26.3	31.2	40.0	48.8	52.7
23.4	10°	22.4	20.5	19.5	18.5	18.5	20.5	25.4	34.1	43.9	47.8
19.5	12.5°	18.5	15.6	13.7	12.7	11.7	14.6	19.5	27.3	38.0	42.9
14.6	15°	12.7	9.8	6.8	5.9	4.9	7.8	12.7	21.5	32.2	38.0
7.8	17.5°	6.8	2.9	1.0	0.0	0.0	2.0	5.9	15.6	26.3	31.2
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	19.5	24.4
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	11.7	16.6
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	8.8
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
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	2.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	7.8
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°
56.6	0°	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
67.3	2.5°	69.2	68.3	66.3	64.4	64.4	64.4	67.3	70.2	73.1	73.1
60.5	5°	64.4	64.4	63.4	61.4	61.4	62.4	66.3	71.2	75.1	76.1
55.6	7.5°	59.5	61.4	59.5	58.5	59.5	60.5	64.4	70.2	76.1	78.0
51.7	10°	56.6	57.5	57.5	56.6	56.6	58.5	62.4	70.2	78.0	80.9
46.8	12.5°	52.7	54.6	53.6	53.6	53.6	55.6	60.5	69.2	80.0	83.9
41.9	15°	48.8	51.7	51.7	50.7	50.7	51.7	58.5	68.3	82.9	89.7
36.1	17.5°	44.9	47.8	48.8	46.8	46.8	48.8	55.6	68.3	84.8	96.5
29.3	20°	37.1	41.9	44.9	41.9	41.9	43.9	50.7	64.4	85.8	103.4
21.5	22.5°	29.3	34.1	38.0	37.1	37.1	38.0	46.8	61.4	86.8	115.1
12.7	25°	21.5	26.3	29.3	31.2	31.2	34.1	42.9	59.5	90.7	139.5
5.9	27.5°	12.7	18.5	22.4	24.4	25.4	29.3	40.0	57.5	97.5	174.6
0.0	30°	5.9	10.7	15.6	19.5	19.5	26.3	37.1	55.6	106.3	225.3
0.0	32.5°	0.0	4.9	7.8	13.7	14.6	21.5	34.1	53.6	119.0	274.0
0.0	35°	0.0	0.0	3.9	10.7	10.7	17.6	31.2	51.7	138.5	311.1
0.0	37.5°	0.0	0.0	0.0	7.8	8.8	15.6	30.2	50.7	142.4	314.0
0.0	40°	0.0	0.0	0.0	5.9	6.8	14.6	30.2	51.7	128.7	307.2
0.0	42.5°	0.0	0.0	0.0	3.9	4.9	14.6	30.2	53.6	116.1	315.0
0.0	45°	0.0	0.0	0.0	2.9	3.9	15.6	29.3	52.7	109.2	356.0
0.0	47.5°	0.0	0.0	0.0	3.9	5.9	15.6	28.3	51.7	110.2	491.5
0.0	50°	0.0	0.0	0.0	4.9	6.8	15.6	29.3	49.7	120.9	755.8
0.0	52.5°	0.0	0.0	0.0	3.9	5.9	17.6	32.2	48.8	131.7	983.0
0.0	55°	0.0	0.0	0.0	1.0	2.9	22.4	35.1	48.8	148.2	1039.6
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	25.4	40.0	51.7	175.5	1017.2
0.0	58°	0.0	0.0	0.0	0.0	0.0	25.4	41.0	51.7	177.5	997.7
0.0	60°	0.0	0.0	0.0	0.0	0.0	25.4	44.9	57.5	191.1	888.4
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	21.5	53.6	72.2	198.9	698.3
0.0	65°	0.0	0.0	0.0	0.0	0.0	17.6	63.4	79.0	204.8	555.9
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	16.6	65.3	80.0	207.7	442.8
0.0	70°	0.0	0.0	0.0	0.0	0.0	17.6	64.4	85.8	217.5	359.9
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	19.5	58.5	94.6	217.5	318.9
0.0	75°	0.0	0.0	0.0	0.0	0.0	20.5	54.6	106.3	198.0	276.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	19.5	53.6	123.9	176.5	227.2
0.0	80°	2.0	2.9	2.9	2.0	2.0	16.6	52.7	125.8	150.2	156.0
1.0	82.5°	5.9	7.8	6.8	4.9	4.9	14.6	46.8	105.3	78.0	67.3
5.9	85°	10.7	12.7	12.7	10.7	10.7	13.7	29.3	38.0	26.3	21.5
10.7	87.5°	14.6	16.6	16.6	14.6	14.6	13.7	12.7	11.7	10.7	10.7
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

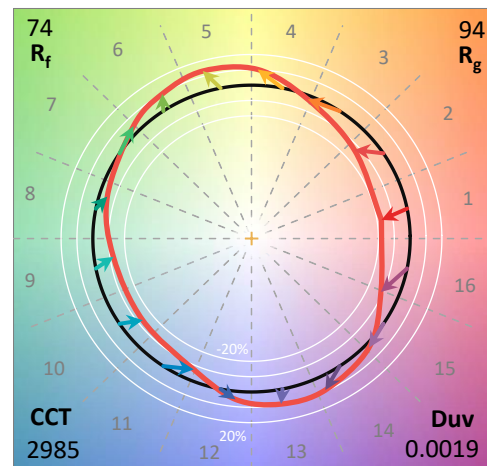
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

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

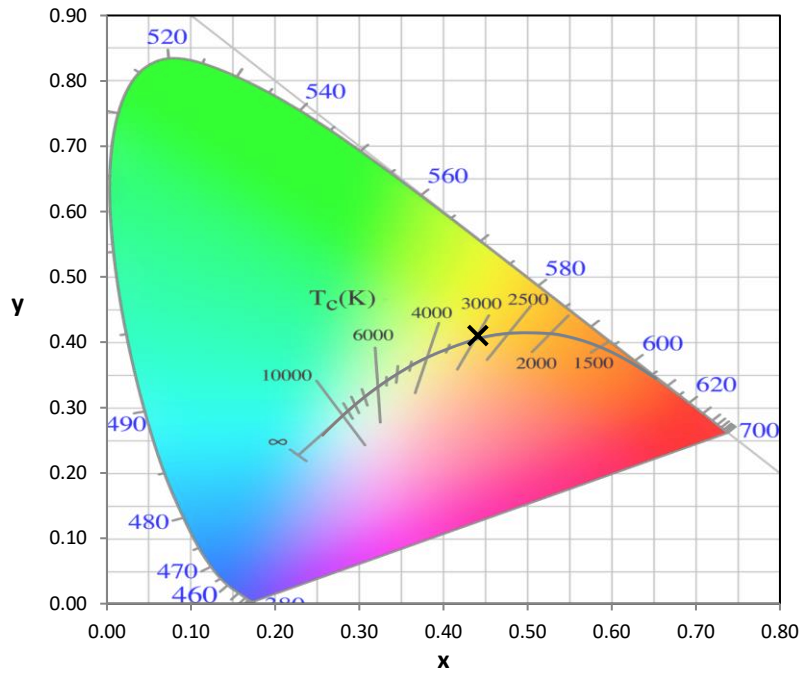
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

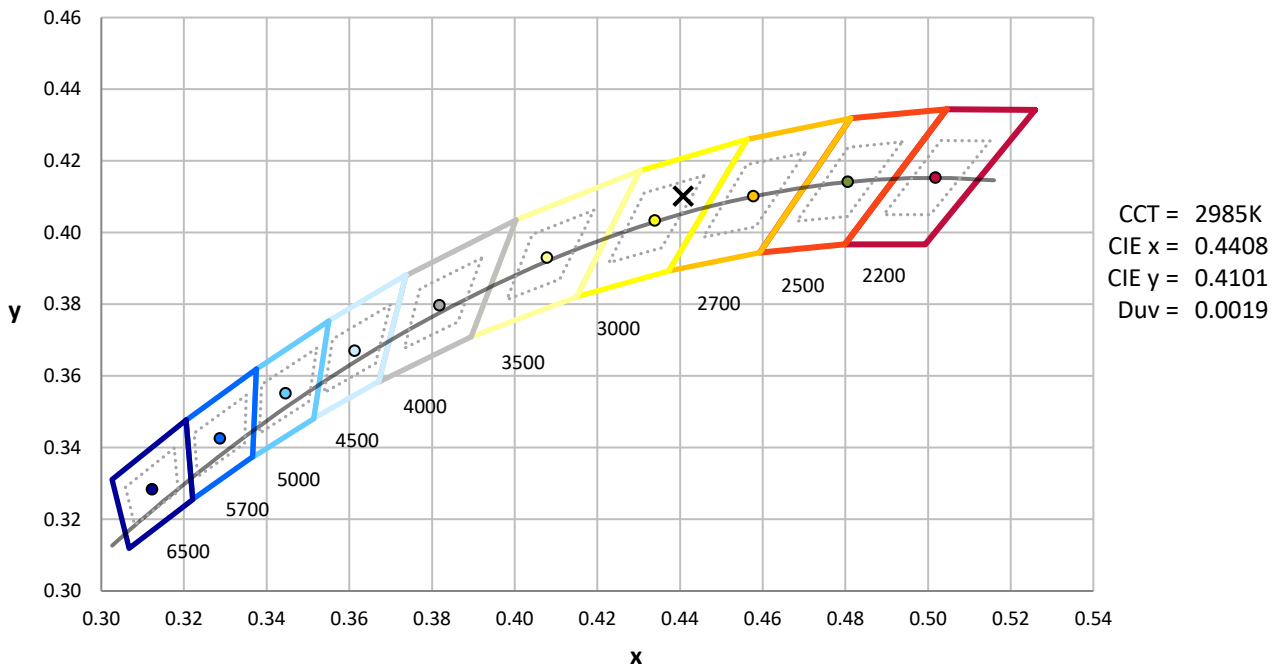
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



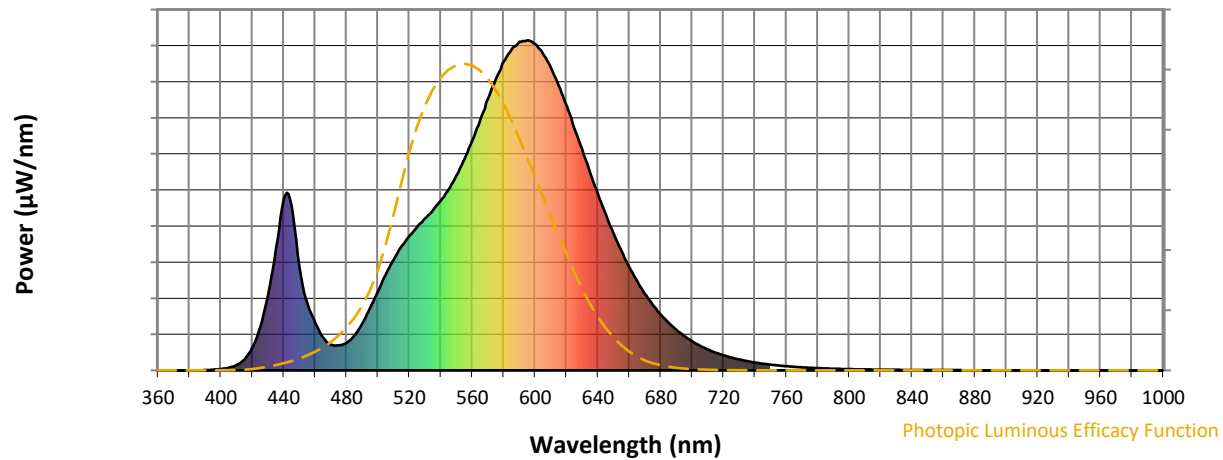
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

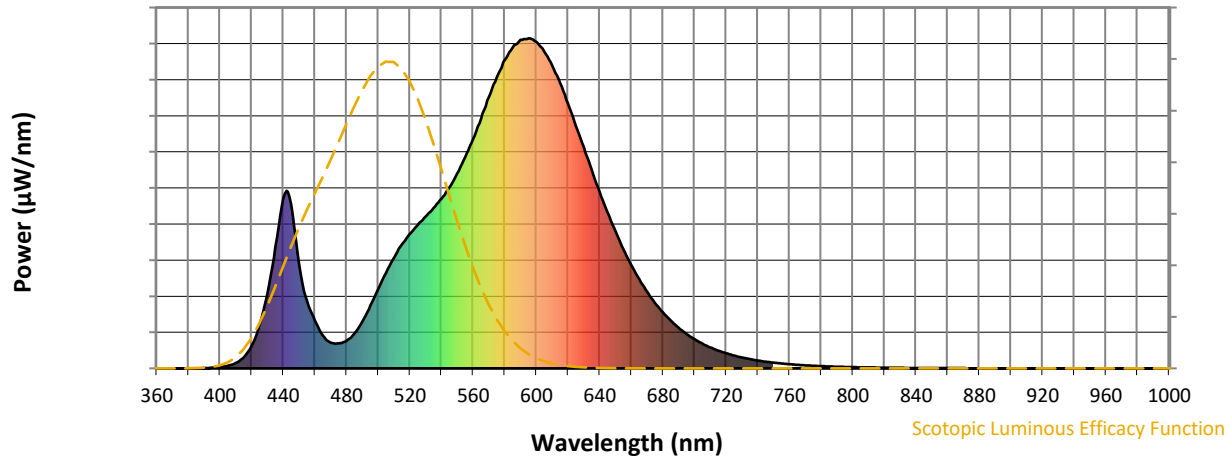


Photopic Lumens: NR

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



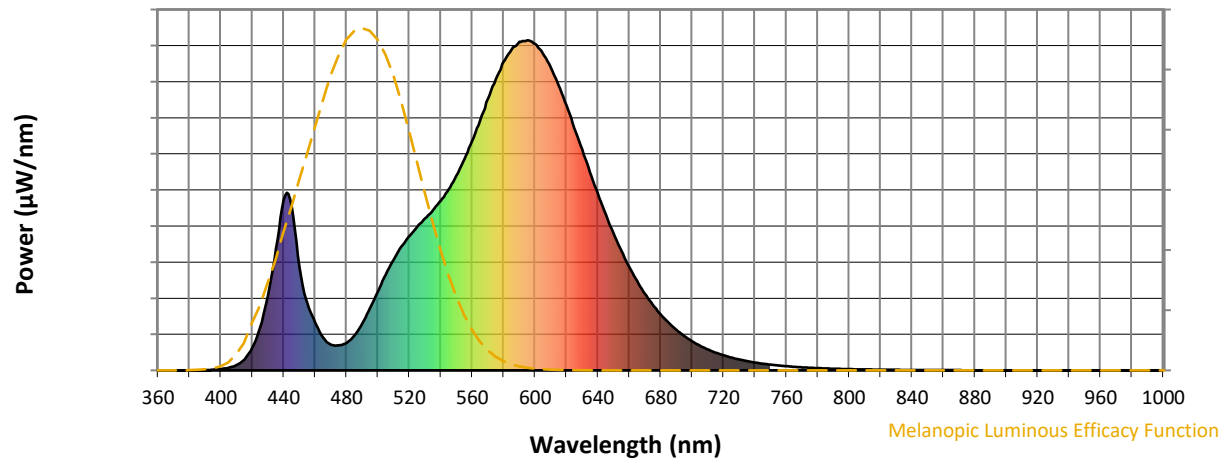
Scotopic Lumens: NR

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

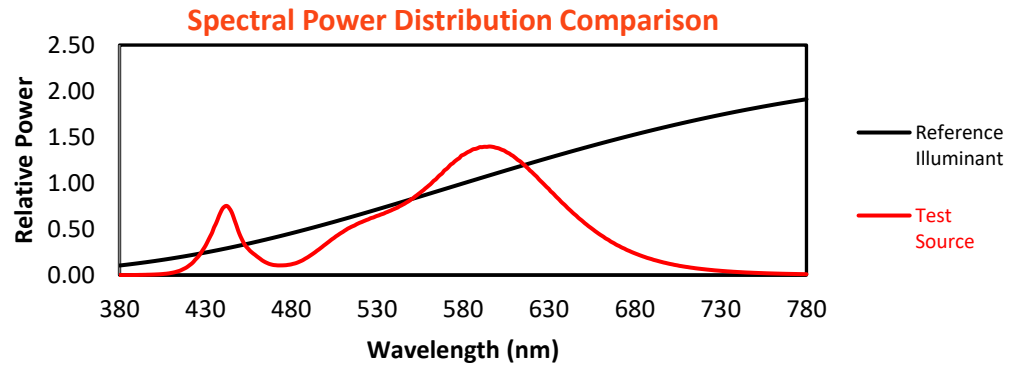
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	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			

REPORT NUMBER: SP1-2407-184-4

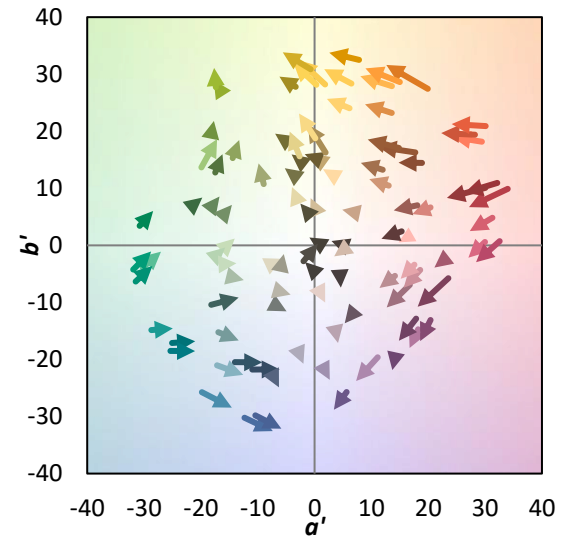
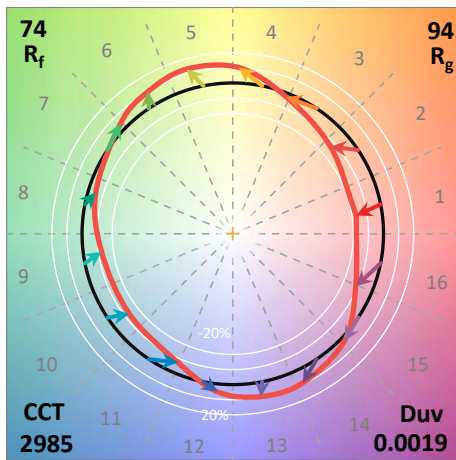
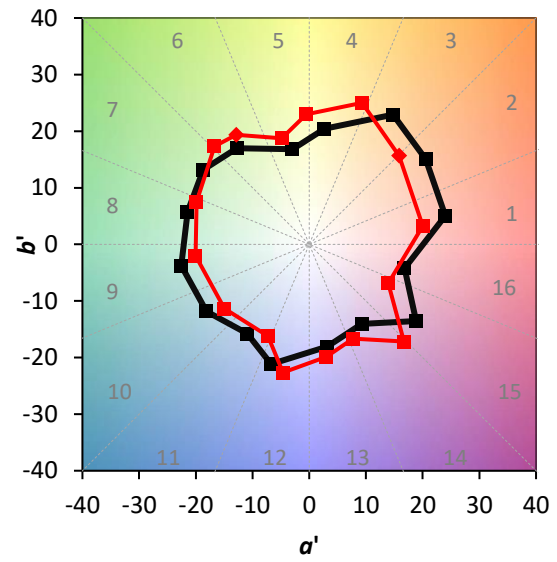
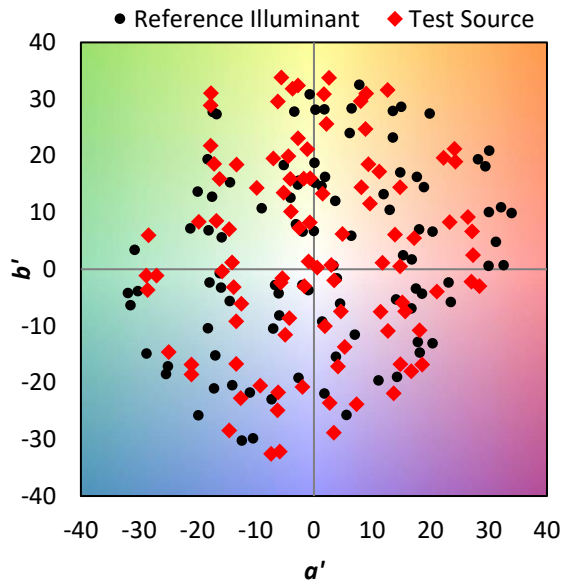
TM-30-18

Summary

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

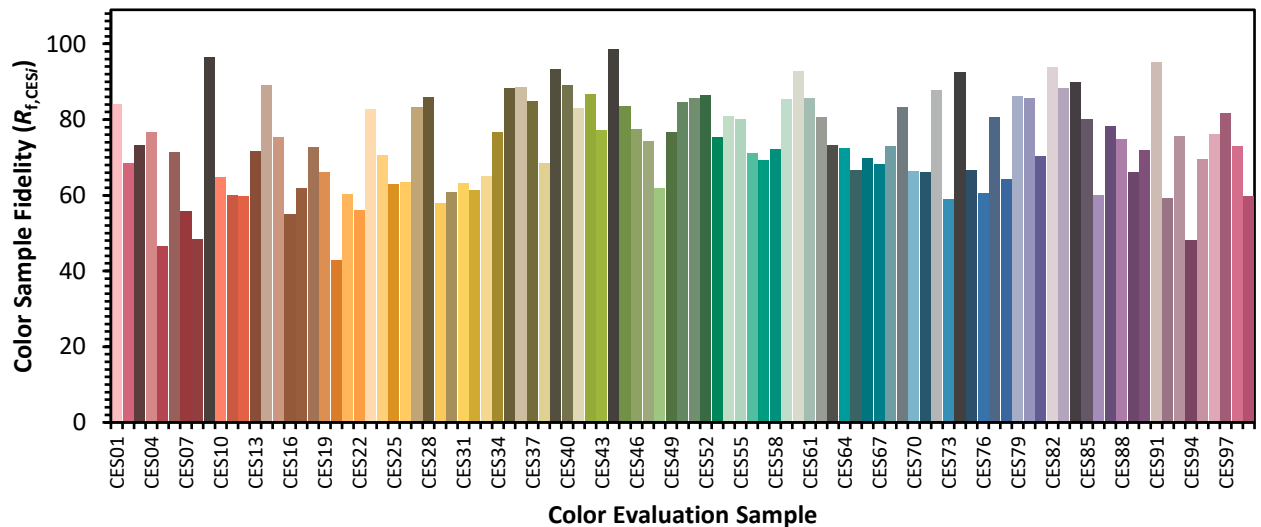


Color Vector Graphics

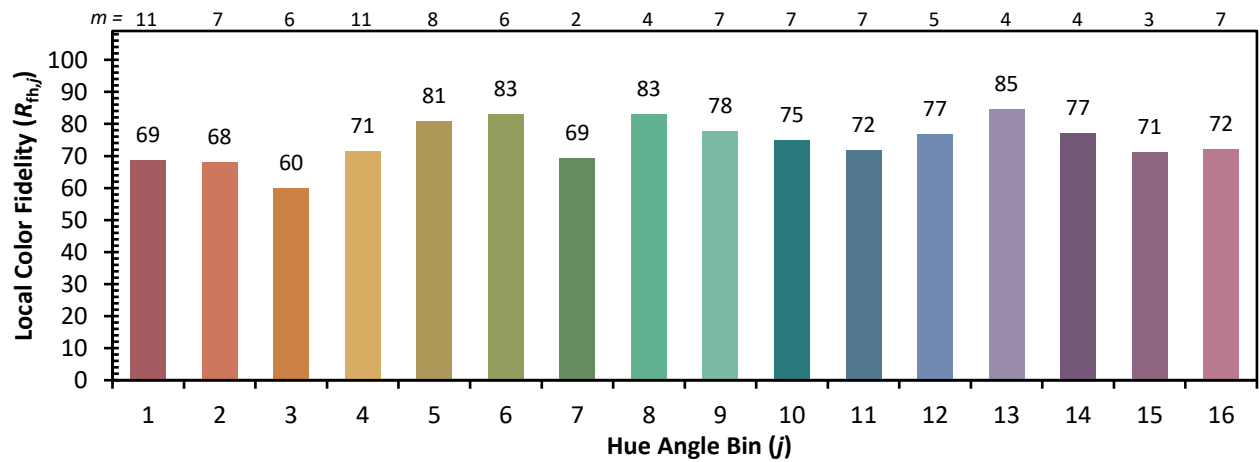
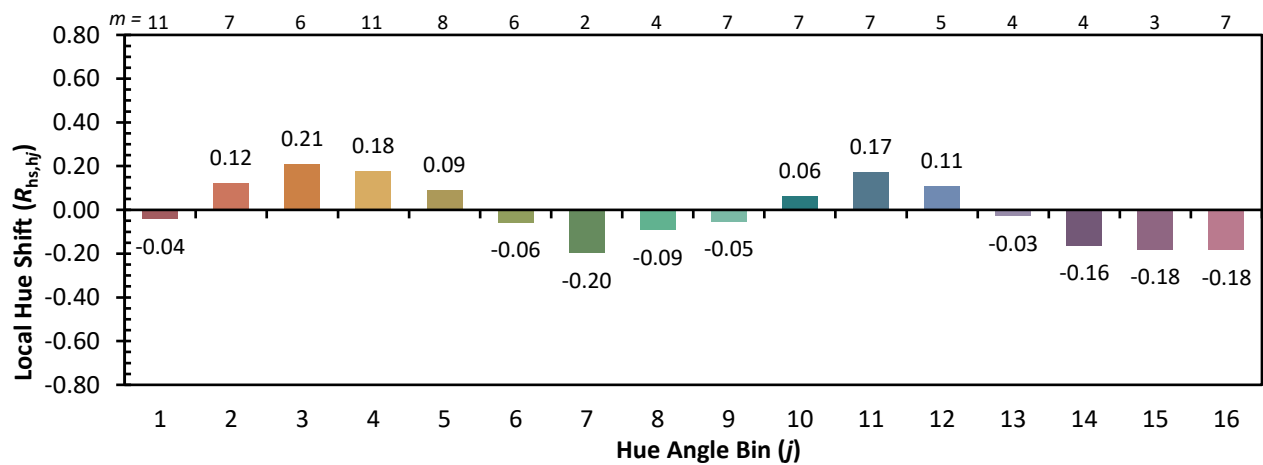
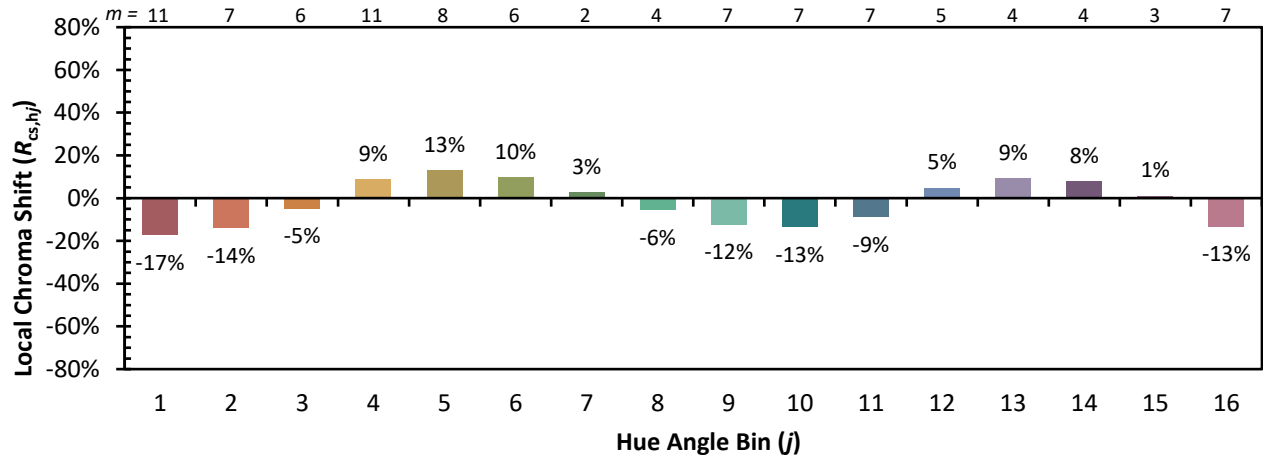


Individual Sample Fidelity Index ($R_{f,i}$)

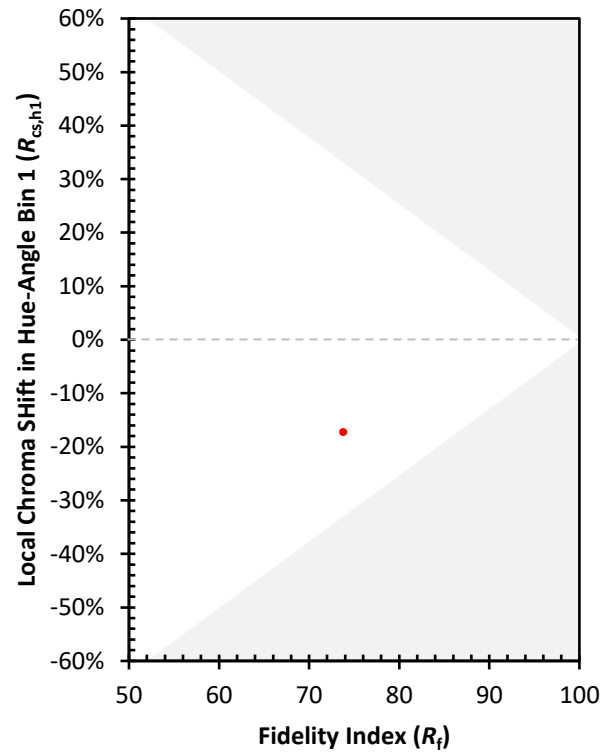
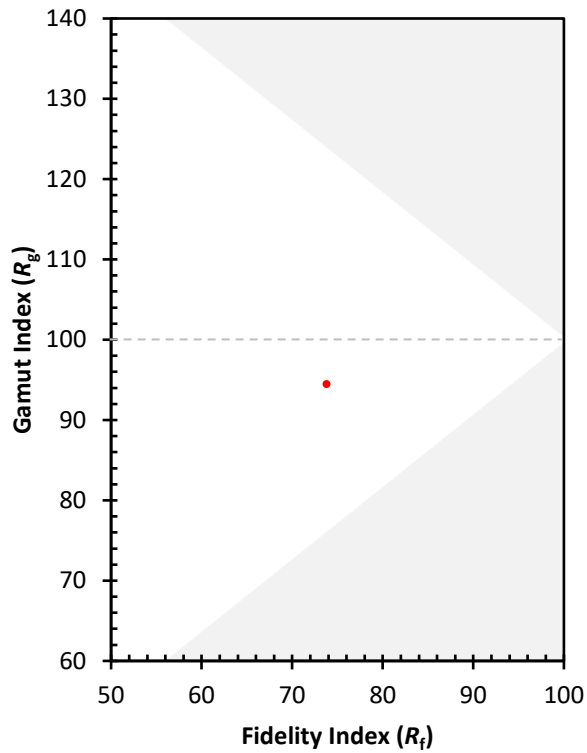
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 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)