

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: P1049874

Luminaire Tested: **GALN-SA5B-850-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049874
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-850-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 5xLight Square PACKAGE
80CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18509.5 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

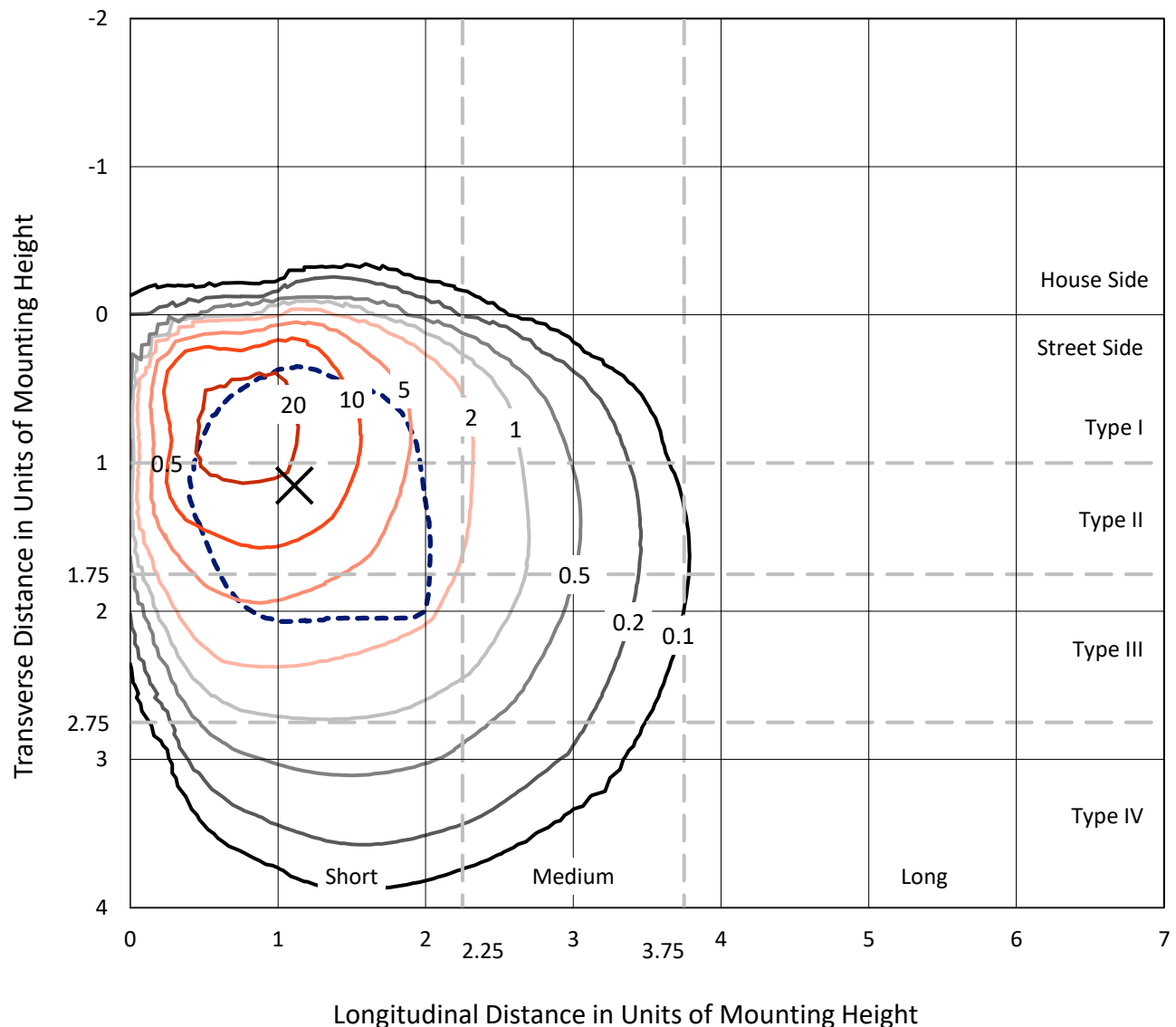
Input Watts (W): 178.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1049874

CATALOG NUMBER: GALN-SA5B-850-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

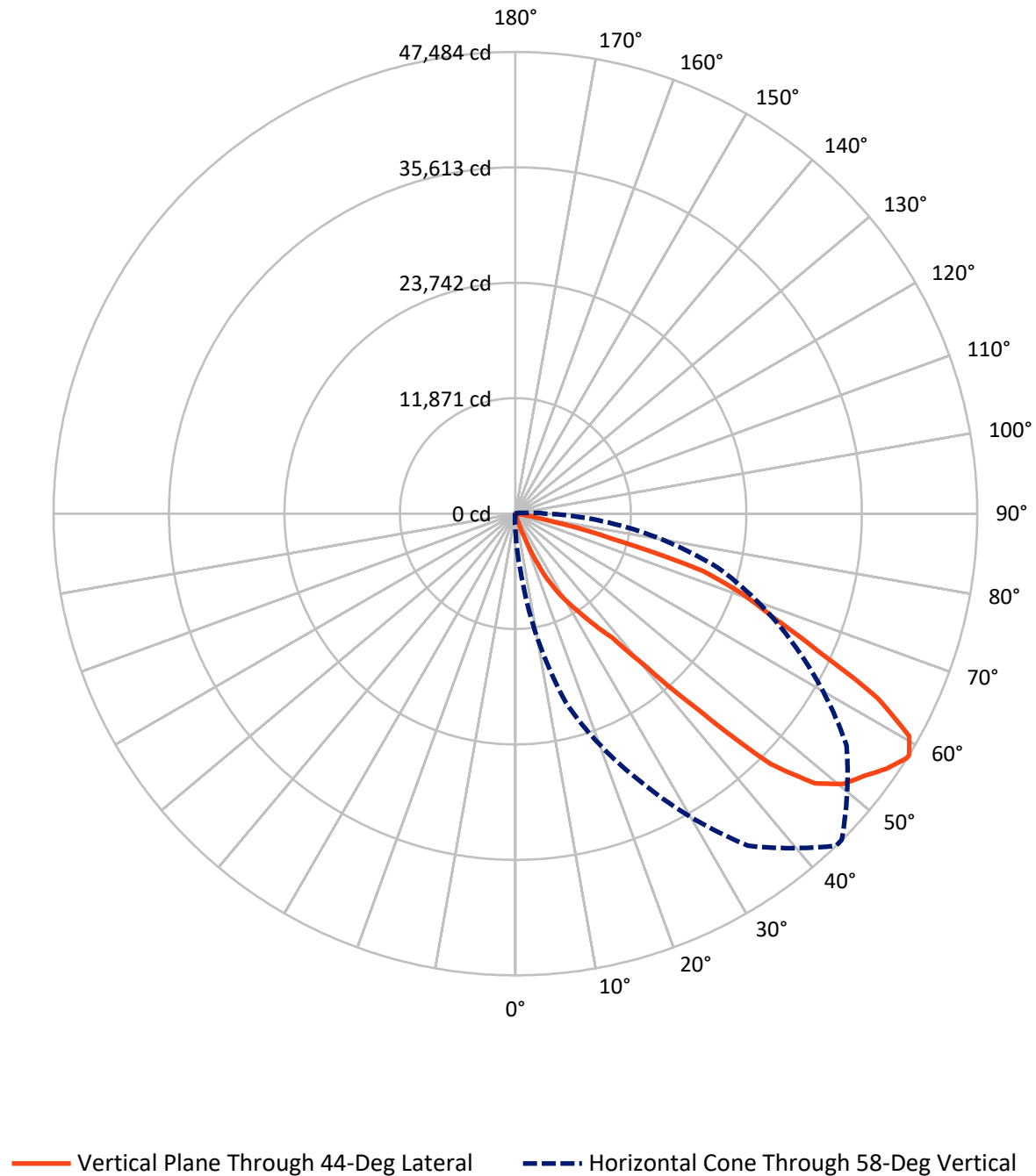
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 32.2 fc
 Type III - Short - N/A

REPORT NUMBER: P1049874
CATALOG NUMBER: GALN-SA5B-850-U-LBC

Luminous Intensity Polar Plot



REPORT NUMBER: P1049874

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	126.4	0.0	126.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	18383.2	0.0	18383.2
	% Fixture	99.3	0.0	99.3
Total	Lumens	18509.5	0.0	18509.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	0.0
10°-20°	40.6	0.2
20°-30°	438.5	2.4
30°-40°	1296.8	7.0
40°-50°	3865.1	20.9
50°-60°	6133.0	33.1
60°-70°	5115.6	27.6
70°-80°	1577.7	8.5
80°-90°	35.0	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°	18509.5	100.0
0°-180°	18509.5	100.0



REPORT NUMBER: P1049874

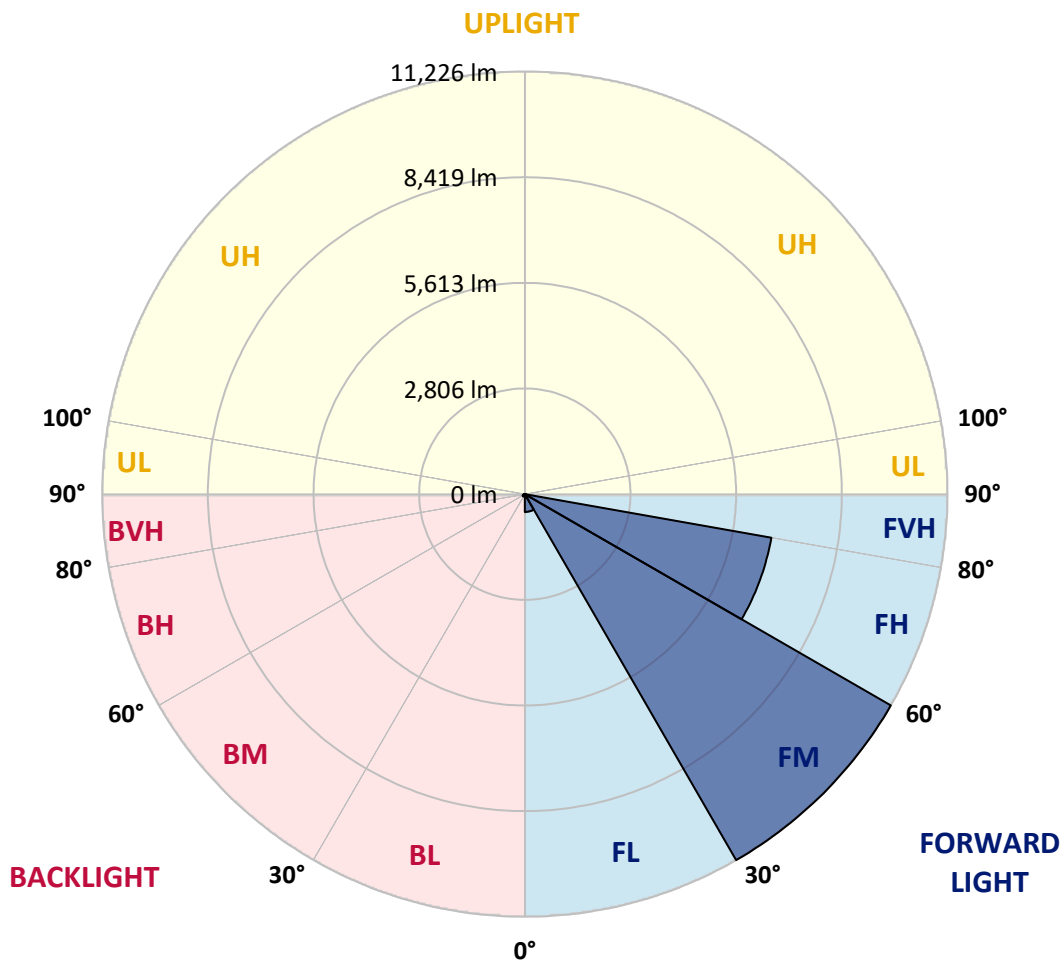
CATALOG NUMBER: GALN-SA5B-850-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	474.0	2.6			
FM	(30°-60°)	11225.6	60.6			
FH	(60°-80°)	6650.2	35.9			G3/7500
FVH	(80°-90°)	33.4	0.2			G1/100
BL	(0°-30°)	12.4	0.1	B0/110		
BM	(30°-60°)	69.2	0.4	B0/220		
BH	(60°-80°)	43.1	0.2	B0/110		G0/110
BVH	(80°-90°)	1.7	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



REPORT NUMBER: P1049874

CATALOG NUMBER: GALN-SA5B-850-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
2.5°	104.9	104.9	100.7	95.1	89.5	83.9	82.5	79.7	78.3	76.9
5°	109.1	109.1	107.7	103.5	97.9	93.7	93.7	89.5	86.7	83.9
7.5°	111.9	113.3	116.1	114.7	111.9	107.7	107.7	104.9	100.7	93.7
10°	116.1	120.2	125.8	128.6	130.0	130.0	128.6	127.2	120.2	110.5
12.5°	120.2	128.6	142.6	156.6	165.0	176.2	174.8	172.0	153.8	132.8
15°	128.6	141.2	170.6	211.1	274.1	313.2	328.6	314.6	254.5	179.0
17.5°	138.4	159.4	247.5	441.8	724.3	858.5	939.6	873.9	578.9	339.8
20°	148.2	194.4	460.0	1145.2	1879.2	2318.3	2439.9	2249.8	1444.4	647.4
22.5°	165.0	272.7	932.6	2367.2	4049.3	4707.9	4832.3	4224.1	2728.0	1278.0
25°	199.9	395.7	1608.0	3857.7	6043.2	7154.8	7103.1	6306.1	4425.4	2041.4
27.5°	250.3	576.1	2431.5	5481.1	7953.2	8933.3	9050.8	8065.0	5899.2	3002.0
30°	323.0	798.4	3315.2	6781.5	9484.2	10544.1	10563.7	9544.4	7217.7	3845.2
32.5°	392.9	1008.1	4088.4	8038.5	10992.9	12154.9	12241.6	10987.4	8202.1	4723.2
35°	446.0	1145.2	4871.5	9143.1	12514.2	14115.2	14109.6	12620.5	9368.2	5507.7
37.5°	450.2	1282.2	5580.4	10272.9	14441.0	16233.5	16411.1	14769.6	10777.6	6478.0
40°	440.4	1436.0	6478.0	12034.6	17912.8	20663.2	20819.8	18750.4	13604.9	8139.1
42.5°	451.6	1703.1	7935.0	15288.3	23677.8	27627.8	27929.8	25754.2	18802.1	11528.5
45°	510.4	2205.0	10987.4	20731.7	31895.2	36710.7	36610.1	33476.6	24849.5	16688.0
47.5°	704.7	3434.1	15512.1	26029.6	37147.0	41435.4	41522.1	37692.3	28378.6	20654.8
50°	1083.6	5254.6	19313.9	28830.3	39405.2	43707.5	43626.4	39201.0	29719.6	22608.1
52.5°	1409.4	6571.7	21221.1	29813.2	39694.6	44830.3	44824.7	39598.1	29927.9	22775.9
55°	1490.5	6671.0	21236.4	29866.4	40343.4	46299.9	46484.4	40575.5	30197.8	22043.2
57.5°	1458.4	5906.2	20350.0	30174.0	41498.3	47436.6	47446.4	41522.1	30882.9	21594.4
58°	1430.4	5785.9	20171.0	30348.8	41696.9	47484.2	47460.4	41565.4	31440.8	21577.6
60°	1273.8	5023.9	19473.3	30794.8	41401.8	46508.2	46285.9	40618.8	31358.3	21405.6
62.5°	1001.1	3919.3	18786.7	30278.8	38239.0	41783.6	41875.8	35961.3	28587.0	20403.1
65°	797.0	2920.9	17354.9	26559.5	31488.3	34312.8	34656.7	29242.8	23860.9	17276.6
67.5°	634.8	2111.3	14558.5	21145.6	24916.6	28637.3	28887.6	24551.7	18486.1	13237.1
70°	515.9	1427.6	10049.1	15464.5	20551.3	24734.8	24750.2	20396.1	13797.8	8673.3
72.5°	457.2	988.6	5833.4	11278.2	16664.2	20155.6	19748.7	16550.9	10604.2	5137.1
75°	395.7	655.8	2860.8	6894.7	10103.7	10172.2	10327.4	7677.7	5300.7	2442.7
77.5°	325.8	465.6	1127.0	1883.4	3030.0	3878.7	4022.7	3048.2	1763.2	601.2
80°	223.7	220.9	303.4	577.5	866.9	1086.4	1013.7	784.4	461.4	230.7
82.5°	96.5	104.9	137.0	165.0	134.2	130.0	124.4	79.7	61.5	47.5
85°	30.8	28.0	29.4	29.4	23.8	18.2	18.2	8.4	0.0	0.0
87.5°	15.4	12.6	12.6	11.2	7.0	2.8	1.4	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

REPORT NUMBER: P1049874

CATALOG NUMBER: GALN-SA5B-850-U-LBC

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
81.1	0°	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
75.5	2.5°	74.1	74.1	71.3	68.5	67.1	64.3	62.9	61.5	60.1	58.7
81.1	5°	78.3	76.9	72.7	68.5	64.3	60.1	57.3	54.5	51.7	50.3
89.5	7.5°	85.3	82.5	74.1	67.1	61.5	55.9	53.1	48.9	46.1	41.9
99.3	10°	93.7	88.1	76.9	68.5	60.1	53.1	48.9	44.7	40.5	35.0
113.3	12.5°	104.9	95.1	81.1	67.1	57.3	48.9	44.7	39.2	35.0	30.8
131.4	15°	114.7	102.1	82.5	67.1	54.5	44.7	39.2	33.6	29.4	23.8
165.0	17.5°	128.6	107.7	81.1	62.9	50.3	39.2	33.6	29.4	22.4	14.0
244.7	20°	152.4	111.9	78.3	58.7	43.3	32.2	25.2	19.6	9.8	2.8
367.7	22.5°	190.2	123.0	75.5	53.1	37.8	25.2	16.8	7.0	0.0	0.0
559.3	25°	262.9	142.6	75.5	50.3	33.6	18.2	5.6	0.0	0.0	0.0
794.2	27.5°	349.6	169.2	75.5	43.3	26.6	9.8	0.0	0.0	0.0	0.0
1082.2	30°	437.6	198.5	75.5	37.8	21.0	1.4	0.0	0.0	0.0	0.0
1332.5	32.5°	521.5	223.7	76.9	32.2	14.0	0.0	0.0	0.0	0.0	0.0
1679.3	35°	606.8	227.9	75.5	28.0	8.4	0.0	0.0	0.0	0.0	0.0
2104.3	37.5°	715.9	219.5	71.3	25.2	4.2	0.0	0.0	0.0	0.0	0.0
2768.5	40°	880.9	223.7	67.1	23.8	1.4	0.0	0.0	0.0	0.0	0.0
3952.8	42.5°	1185.7	241.9	61.5	23.8	0.0	0.0	0.0	0.0	0.0	0.0
6296.3	45°	2049.8	324.4	55.9	25.2	0.0	0.0	0.0	0.0	0.0	0.0
9452.1	47.5°	3390.7	583.1	54.5	25.2	0.0	0.0	0.0	0.0	0.0	0.0
11385.9	50°	4327.5	734.1	57.3	26.6	0.0	0.0	0.0	0.0	0.0	0.0
11627.7	52.5°	4320.6	818.0	60.1	28.0	5.6	0.0	0.0	0.0	0.0	0.0
10717.5	55°	3841.0	833.3	64.3	30.8	18.2	0.0	0.0	0.0	0.0	0.0
9210.2	57.5°	3210.4	760.6	74.1	37.8	33.6	0.0	0.0	0.0	0.0	0.0
8973.9	58°	3098.5	727.1	76.9	39.2	36.4	0.0	0.0	0.0	0.0	0.0
7784.0	60°	2539.2	592.9	97.9	48.9	48.9	0.0	0.0	0.0	0.0	0.0
6381.6	62.5°	1753.4	517.3	111.9	62.9	50.3	0.0	0.0	0.0	0.0	0.0
4705.1	65°	1240.2	467.0	121.6	67.1	40.5	0.0	0.0	0.0	0.0	0.0
3343.2	67.5°	927.0	430.7	134.2	68.5	21.0	0.0	0.0	0.0	0.0	0.0
2097.4	70°	710.3	404.1	165.0	72.7	5.6	0.0	0.0	0.0	0.0	0.0
1250.0	72.5°	578.9	373.3	199.9	75.5	0.0	0.0	0.0	0.0	0.0	0.0
749.5	75°	479.6	337.0	193.0	82.5	0.0	0.0	0.0	0.0	0.0	0.0
399.9	77.5°	318.8	261.5	176.2	82.5	0.0	0.0	0.0	0.0	0.0	0.0
142.6	80°	111.9	103.5	137.0	72.7	0.0	0.0	0.0	0.0	0.0	0.0
29.4	82.5°	16.8	14.0	19.6	25.2	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



REPORT NUMBER: P1049874

CATALOG NUMBER: GALN-SA5B-850-U-LBC

CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
81.1	0°	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
57.3	2.5°	57.3	57.3	55.9	57.3	57.3	60.1	67.1	76.9	88.1	92.3
48.9	5°	47.5	46.1	44.7	44.7	44.7	48.9	54.5	65.7	78.3	83.9
40.5	7.5°	39.2	37.8	36.4	35.0	35.0	37.8	44.7	57.3	69.9	75.5
33.6	10°	32.2	29.4	28.0	26.6	26.6	29.4	36.4	48.9	62.9	68.5
28.0	12.5°	26.6	22.4	19.6	18.2	16.8	21.0	28.0	39.2	54.5	61.5
21.0	15°	18.2	14.0	9.8	8.4	7.0	11.2	18.2	30.8	46.1	54.5
11.2	17.5°	9.8	4.2	1.4	0.0	0.0	2.8	8.4	22.4	37.8	44.7
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2	28.0	35.0
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	16.8	23.8
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	12.6
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
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	4.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	11.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1049874

CATALOG NUMBER: GALN-SA5B-850-U-LBC

CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
81.1	0°	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
96.5	2.5°	99.3	97.9	95.1	92.3	92.3	92.3	96.5	100.7	104.9	104.9
86.7	5°	92.3	92.3	90.9	88.1	88.1	89.5	95.1	102.1	107.7	109.1
79.7	7.5°	85.3	88.1	85.3	83.9	85.3	86.7	92.3	100.7	109.1	111.9
74.1	10°	81.1	82.5	82.5	81.1	81.1	83.9	89.5	100.7	111.9	116.1
67.1	12.5°	75.5	78.3	76.9	76.9	76.9	79.7	86.7	99.3	114.7	120.2
60.1	15°	69.9	74.1	74.1	72.7	72.7	74.1	83.9	97.9	118.9	128.6
51.7	17.5°	64.3	68.5	69.9	67.1	67.1	69.9	79.7	97.9	121.6	138.4
41.9	20°	53.1	60.1	64.3	60.1	60.1	62.9	72.7	92.3	123.0	148.2
30.8	22.5°	41.9	48.9	54.5	53.1	53.1	54.5	67.1	88.1	124.4	165.0
18.2	25°	30.8	37.8	41.9	44.7	44.7	48.9	61.5	85.3	130.0	199.9
8.4	27.5°	18.2	26.6	32.2	35.0	36.4	41.9	57.3	82.5	139.8	250.3
0.0	30°	8.4	15.4	22.4	28.0	28.0	37.8	53.1	79.7	152.4	323.0
0.0	32.5°	0.0	7.0	11.2	19.6	21.0	30.8	48.9	76.9	170.6	392.9
0.0	35°	0.0	0.0	5.6	15.4	15.4	25.2	44.7	74.1	198.5	446.0
0.0	37.5°	0.0	0.0	0.0	11.2	12.6	22.4	43.3	72.7	204.1	450.2
0.0	40°	0.0	0.0	0.0	8.4	9.8	21.0	43.3	74.1	184.6	440.4
0.0	42.5°	0.0	0.0	0.0	5.6	7.0	21.0	43.3	76.9	166.4	451.6
0.0	45°	0.0	0.0	0.0	4.2	5.6	22.4	41.9	75.5	156.6	510.4
0.0	47.5°	0.0	0.0	0.0	5.6	8.4	22.4	40.5	74.1	158.0	704.7
0.0	50°	0.0	0.0	0.0	7.0	9.8	22.4	41.9	71.3	173.4	1083.6
0.0	52.5°	0.0	0.0	0.0	5.6	8.4	25.2	46.1	69.9	188.8	1409.4
0.0	55°	0.0	0.0	0.0	1.4	4.2	32.2	50.3	69.9	212.5	1490.5
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	36.4	57.3	74.1	251.7	1458.4
0.0	58°	0.0	0.0	0.0	0.0	0.0	36.4	58.7	74.1	254.5	1430.4
0.0	60°	0.0	0.0	0.0	0.0	0.0	36.4	64.3	82.5	274.1	1273.8
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	30.8	76.9	103.5	285.2	1001.1
0.0	65°	0.0	0.0	0.0	0.0	0.0	25.2	90.9	113.3	293.6	797.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	23.8	93.7	114.7	297.8	634.8
0.0	70°	0.0	0.0	0.0	0.0	0.0	25.2	92.3	123.0	311.8	515.9
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	28.0	83.9	135.6	311.8	457.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	29.4	78.3	152.4	283.8	395.7
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	28.0	76.9	177.6	253.1	325.8
0.0	80°	2.8	4.2	4.2	2.8	2.8	23.8	75.5	180.4	215.3	223.7
1.4	82.5°	8.4	11.2	9.8	7.0	7.0	21.0	67.1	151.0	111.9	96.5
8.4	85°	15.4	18.2	18.2	15.4	15.4	19.6	41.9	54.5	37.8	30.8
15.4	87.5°	21.0	23.8	23.8	21.0	21.0	19.6	18.2	16.8	15.4	15.4
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: SP1-2407-184-12

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-850-U-5WQ

Data in this report applies to families of products including GSS-SB1A-850-U-5WQ

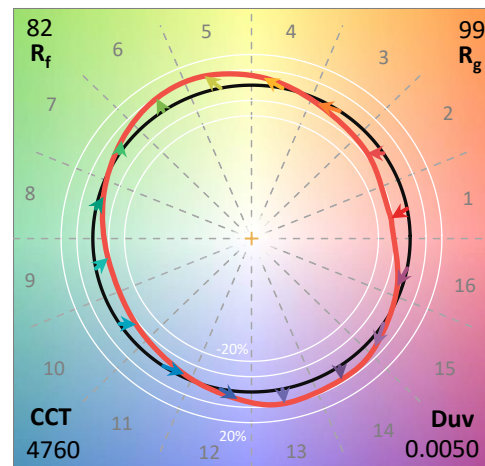
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-12
 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-850-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K): 4760
 CIE u' : 0.2107
 CIE v' : 0.4939
 Duv: 0.0050
 CIE x: 0.3537
 CIE y: 0.3685
 CIE z: 0.2779
 Peak Wavelength (nm): 443
 Dominant Wavelength (nm): 571
 Purity: 16.69598
 R_f: 82
 R_g: 99.4

CRI (Ra): 81.1
 R1: 79.8
 R2: 83.5
 R3: 87.9
 R4: 83.1
 R5: 80.5
 R6: 79.1
 R7: 86.1
 R8: 69.0
 R9: 8.7
 R10: 62.4
 R11: 83.8
 R12: 63.0
 R13: 79.9
 R14: 93.3
 R15: 72.7



Test Conditions

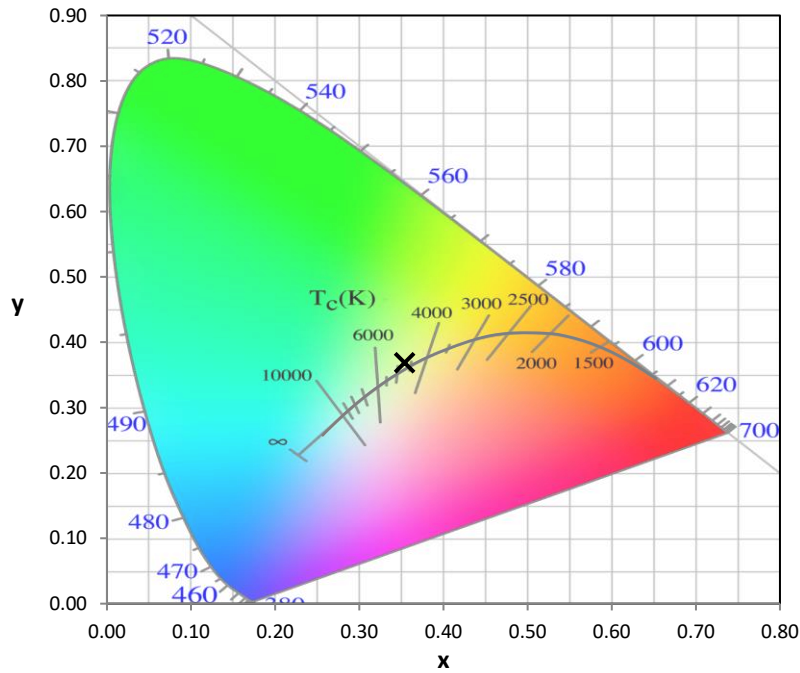
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-12

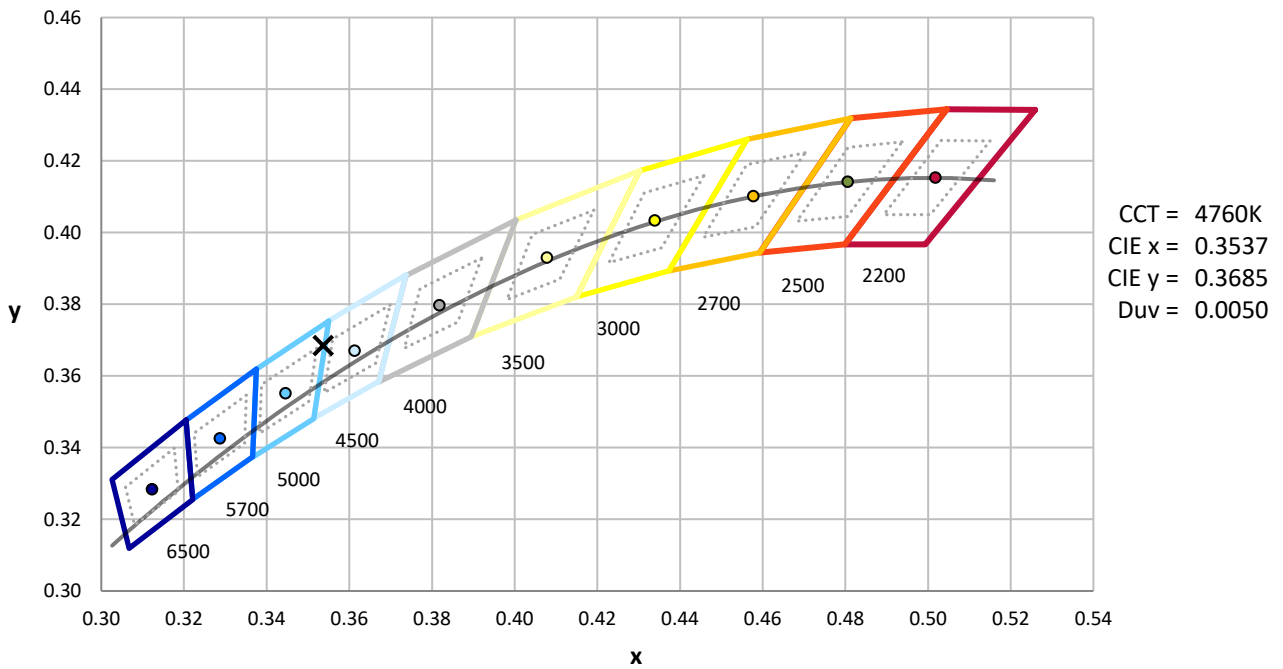
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-12

CIE 1931 Chromaticity Diagram



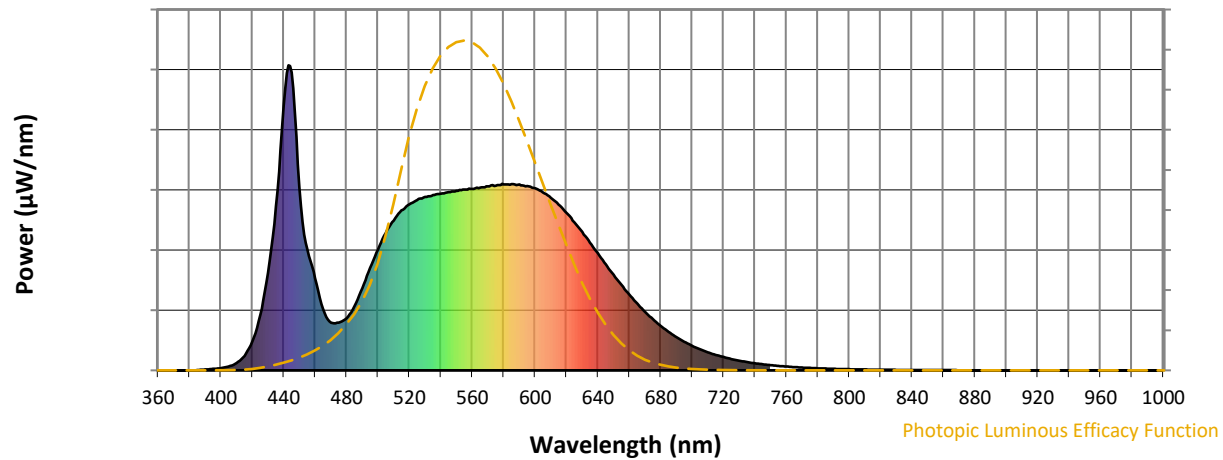
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-12

Photopic Flux vs. Wavelength

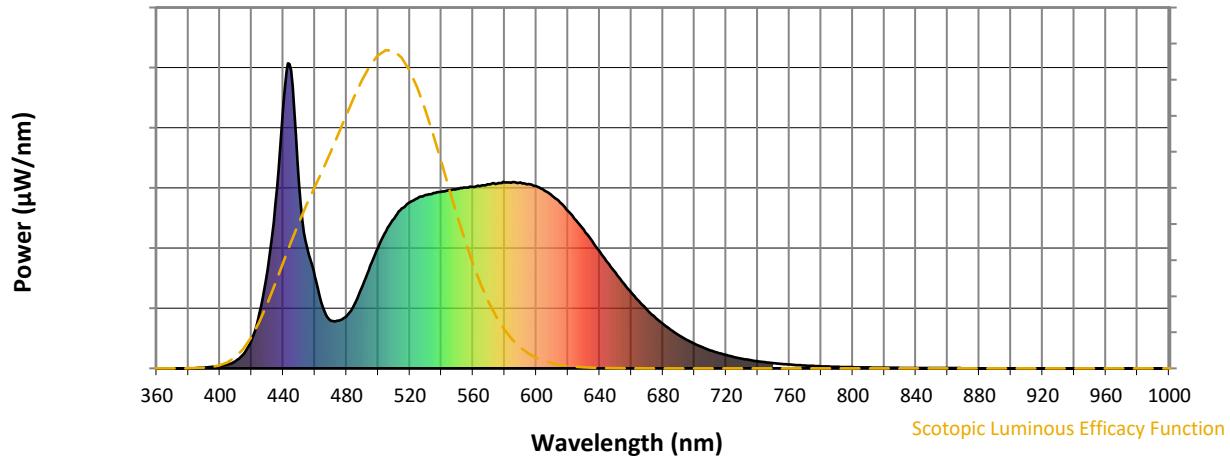


Photopic Lumens: NR

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	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-12

Scotopic Flux vs. Wavelength



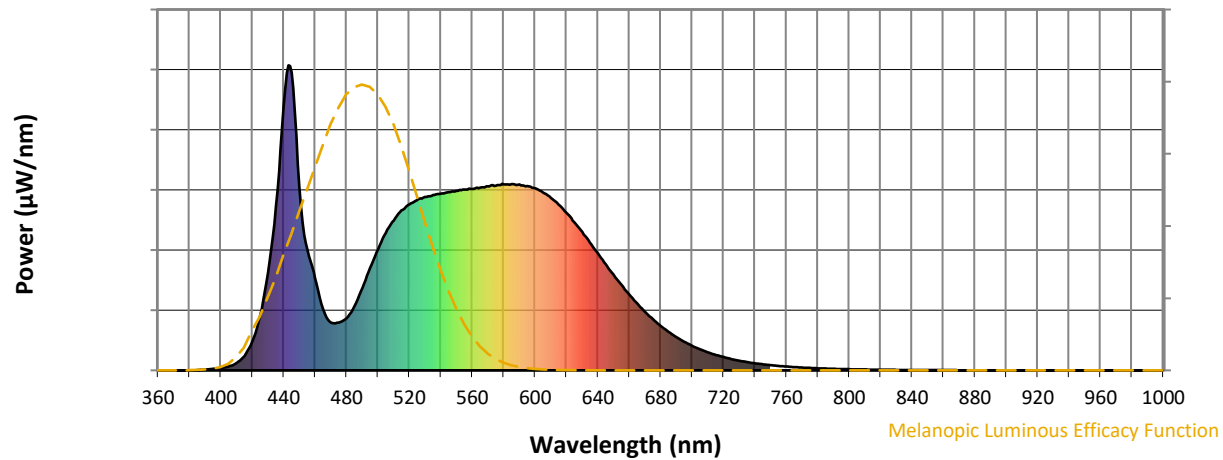
Scotopic Lumens: NR

S/P: 1.83

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	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-12

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.74

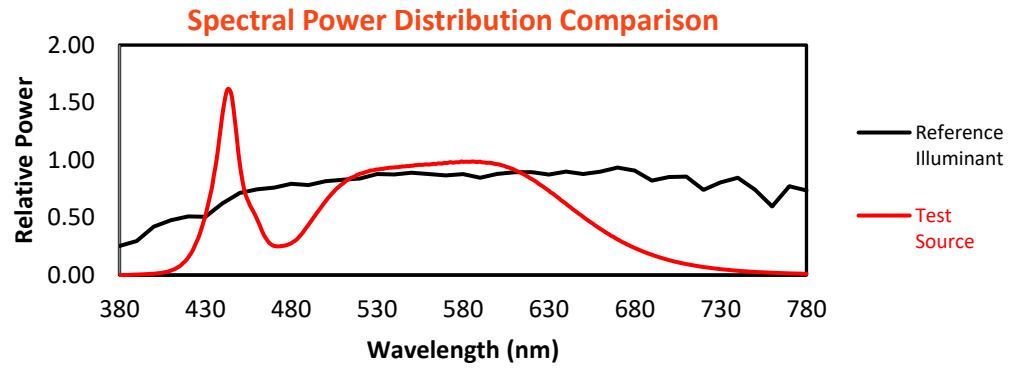
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-12

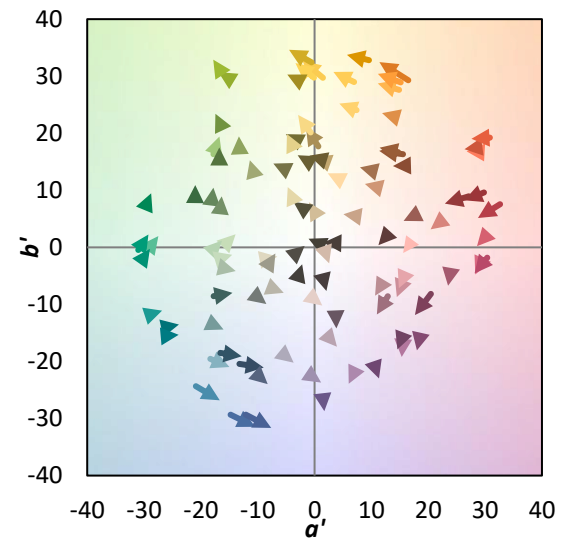
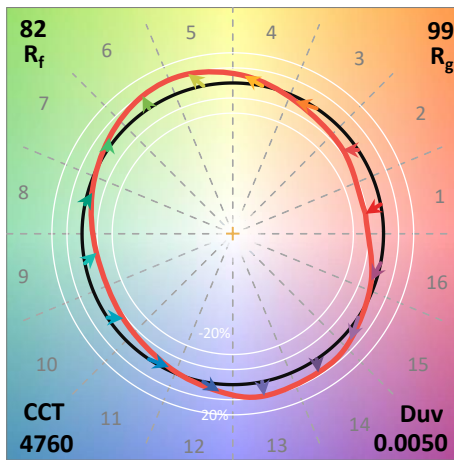
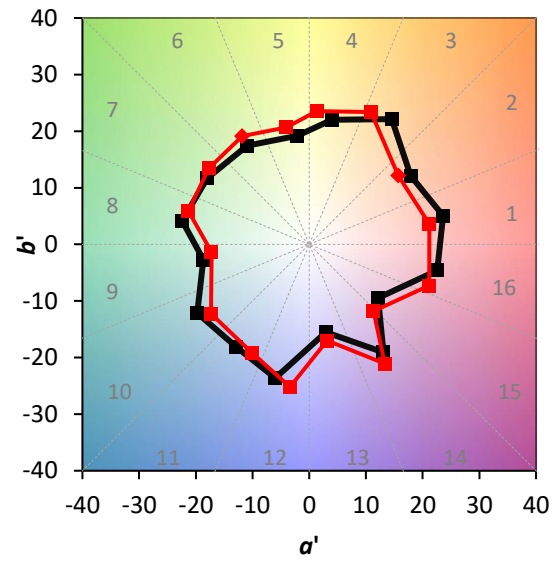
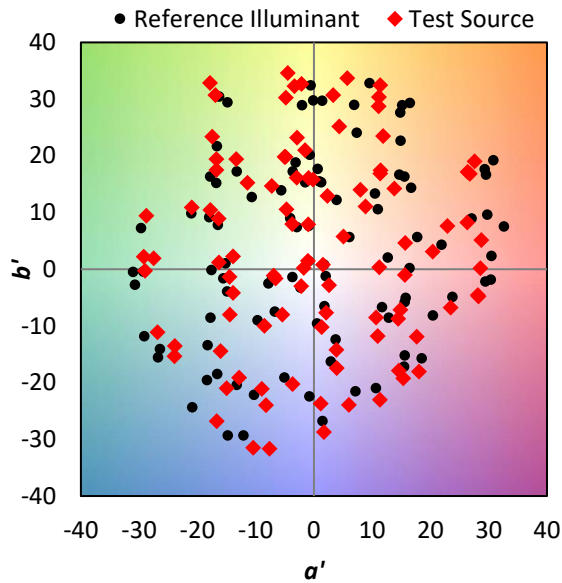
TM-30-18

Summary

$R_f = 82$
 $R_g = 99.4$
 $\text{CIE } R_a = 81.1$
 $R_9 = 8.7$

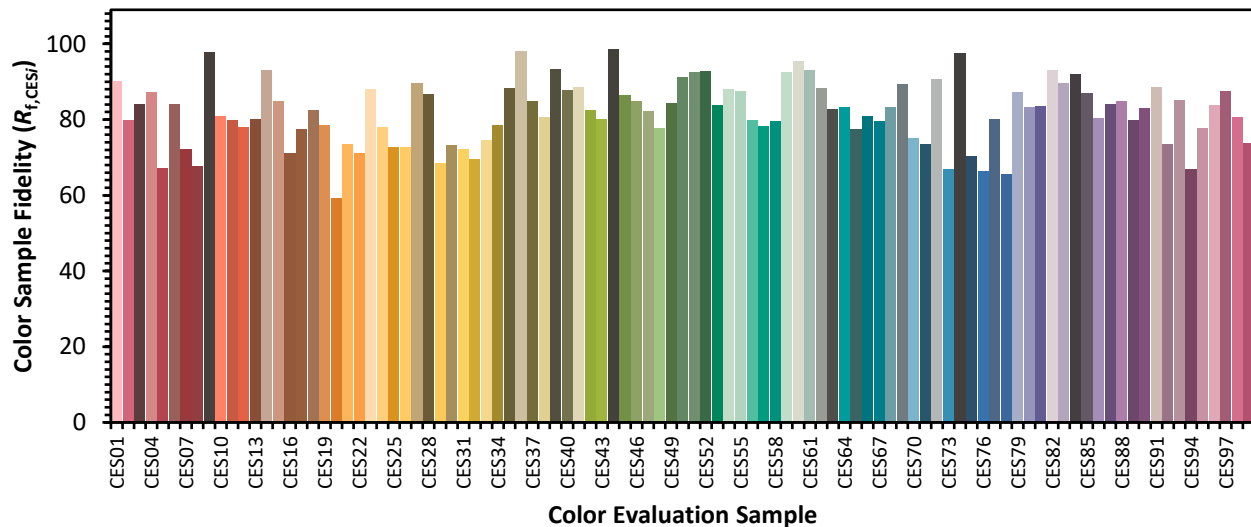


Color Vector Graphics

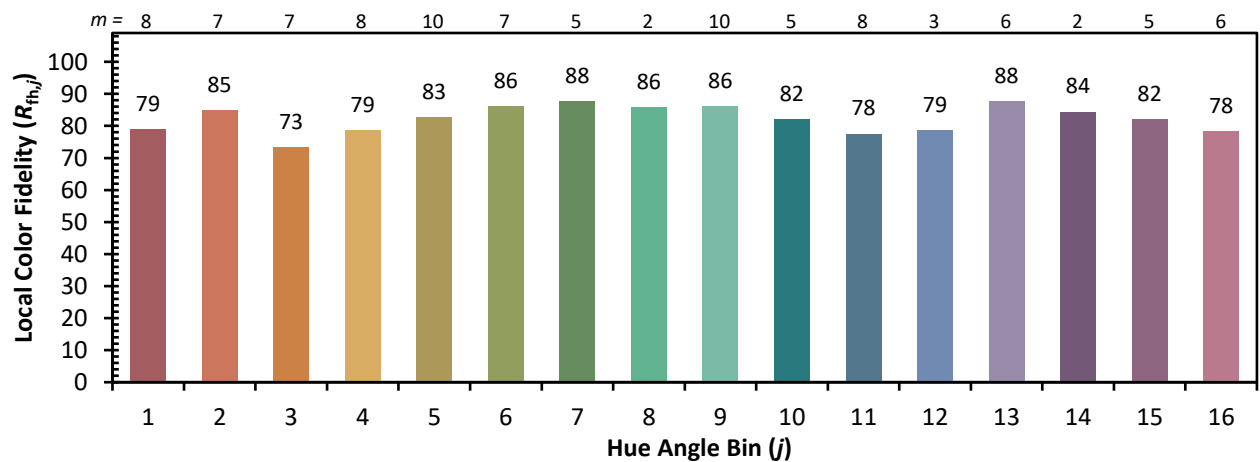
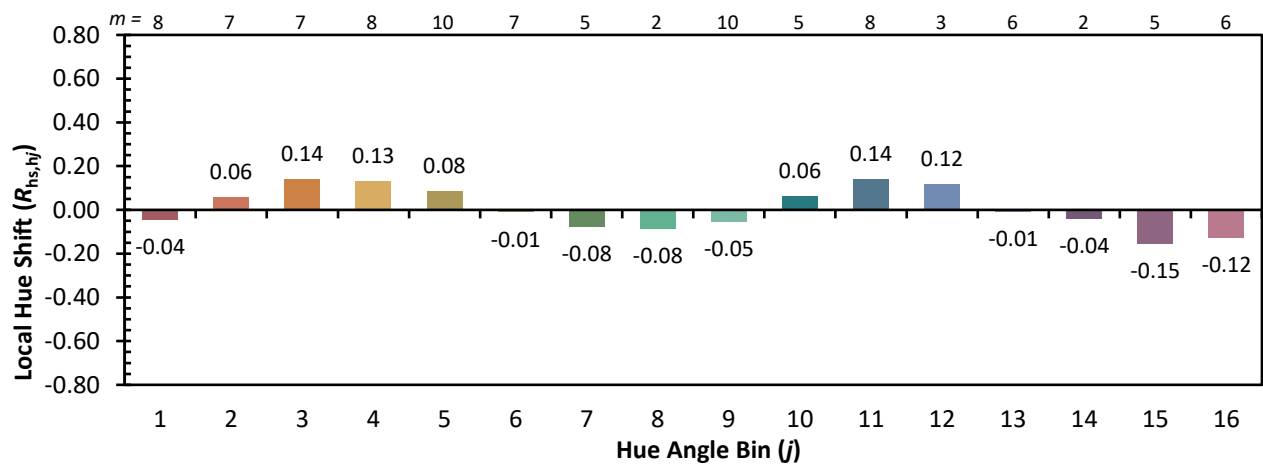
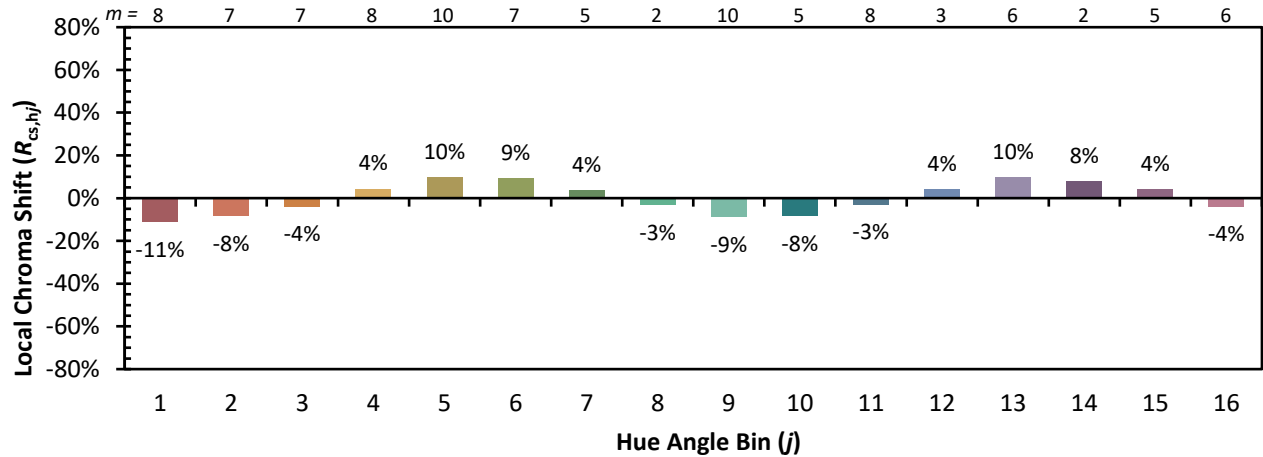


Individual Sample Fidelity Index ($R_{f,i}$)

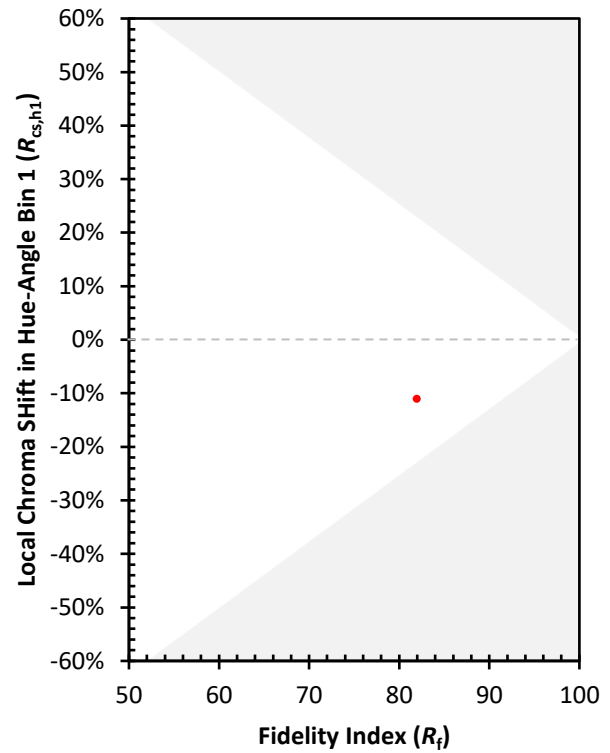
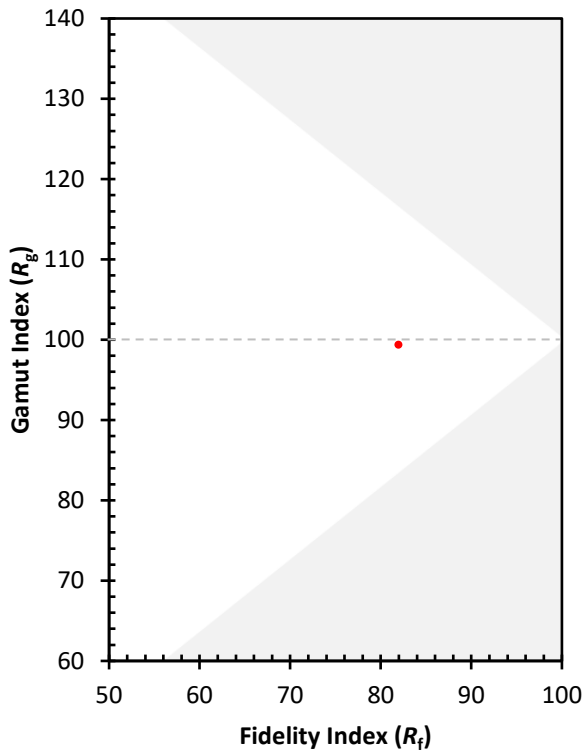
CES01 = 85	CES26 = 73	CES51 = 92	CES76 = 66
CES02 = 60	CES27 = 90	CES52 = 93	CES77 = 80
CES03 = 30	CES28 = 87	CES53 = 84	CES78 = 65
CES04 = 69	CES29 = 69	CES54 = 88	CES79 = 87
CES05 = 47	CES30 = 73	CES55 = 88	CES80 = 83
CES06 = 50	CES31 = 72	CES56 = 80	CES81 = 84
CES07 = 40	CES32 = 69	CES57 = 78	CES82 = 93
CES08 = 39	CES33 = 75	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 78	CES59 = 93	CES84 = 92
CES10 = 73	CES35 = 88	CES60 = 95	CES85 = 87
CES11 = 56	CES36 = 98	CES61 = 93	CES86 = 80
CES12 = 62	CES37 = 85	CES62 = 88	CES87 = 84
CES13 = 42	CES38 = 81	CES63 = 83	CES88 = 85
CES14 = 74	CES39 = 93	CES64 = 83	CES89 = 80
CES15 = 71	CES40 = 88	CES65 = 77	CES90 = 83
CES16 = 46	CES41 = 89	CES66 = 81	CES91 = 89
CES17 = 48	CES42 = 82	CES67 = 80	CES92 = 73
CES18 = 55	CES43 = 80	CES68 = 83	CES93 = 85
CES19 = 70	CES44 = 99	CES69 = 89	CES94 = 67
CES20 = 64	CES45 = 87	CES70 = 75	CES95 = 78
CES21 = 85	CES46 = 85	CES71 = 73	CES96 = 84
CES22 = 77	CES47 = 82	CES72 = 91	CES97 = 87
CES23 = 91	CES48 = 78	CES73 = 67	CES98 = 81
CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 74
CES25 = 71	CES50 = 91	CES75 = 70	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)