

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: P1049819

Luminaire Tested: **GALN-SA9C-835-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049819
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-835-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 9xLight Square PACKAGE
80CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (126) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40424 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G5

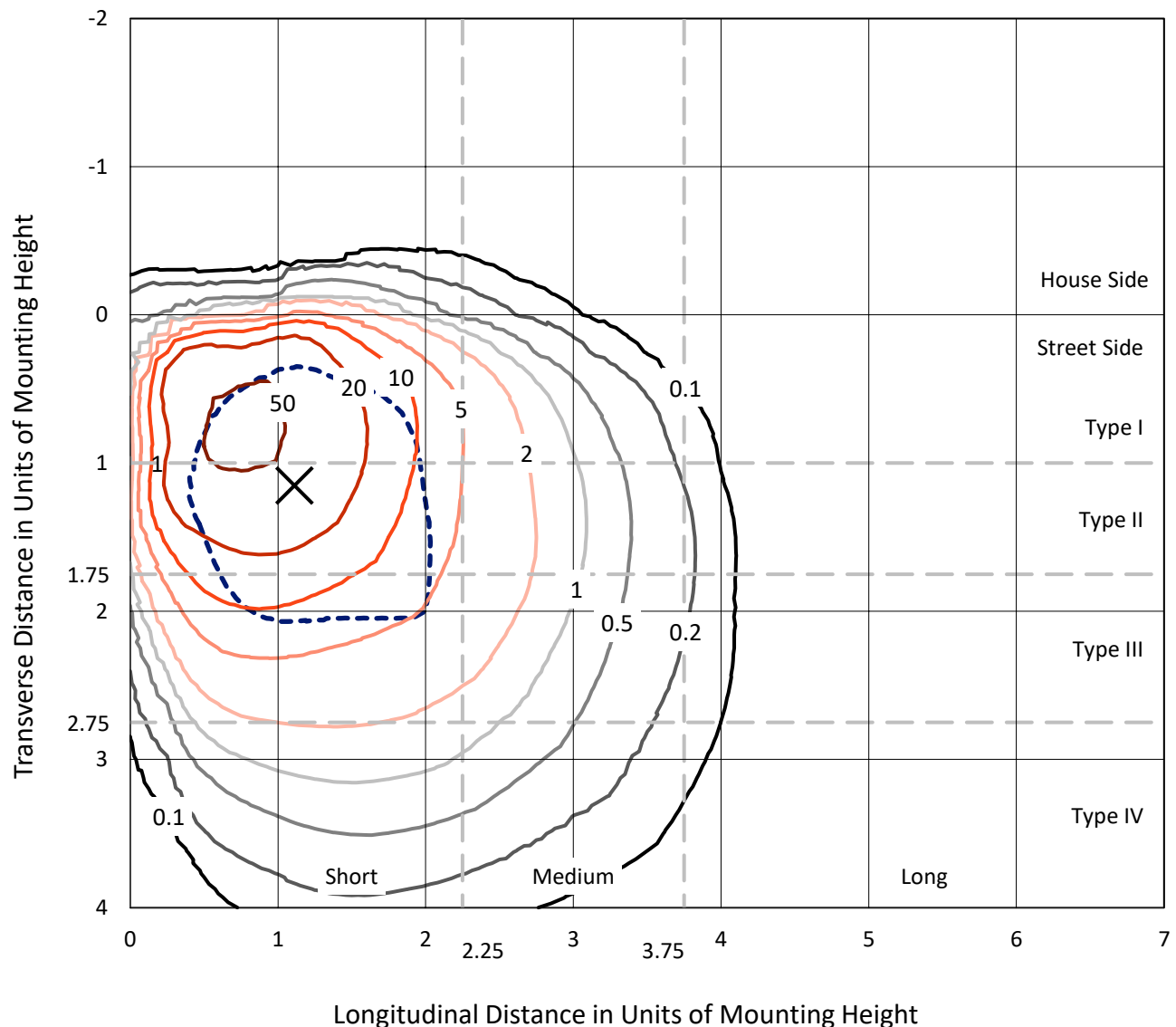
Input Watts (W): 417.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1049819

CATALOG NUMBER: GALN-SA9C-835-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

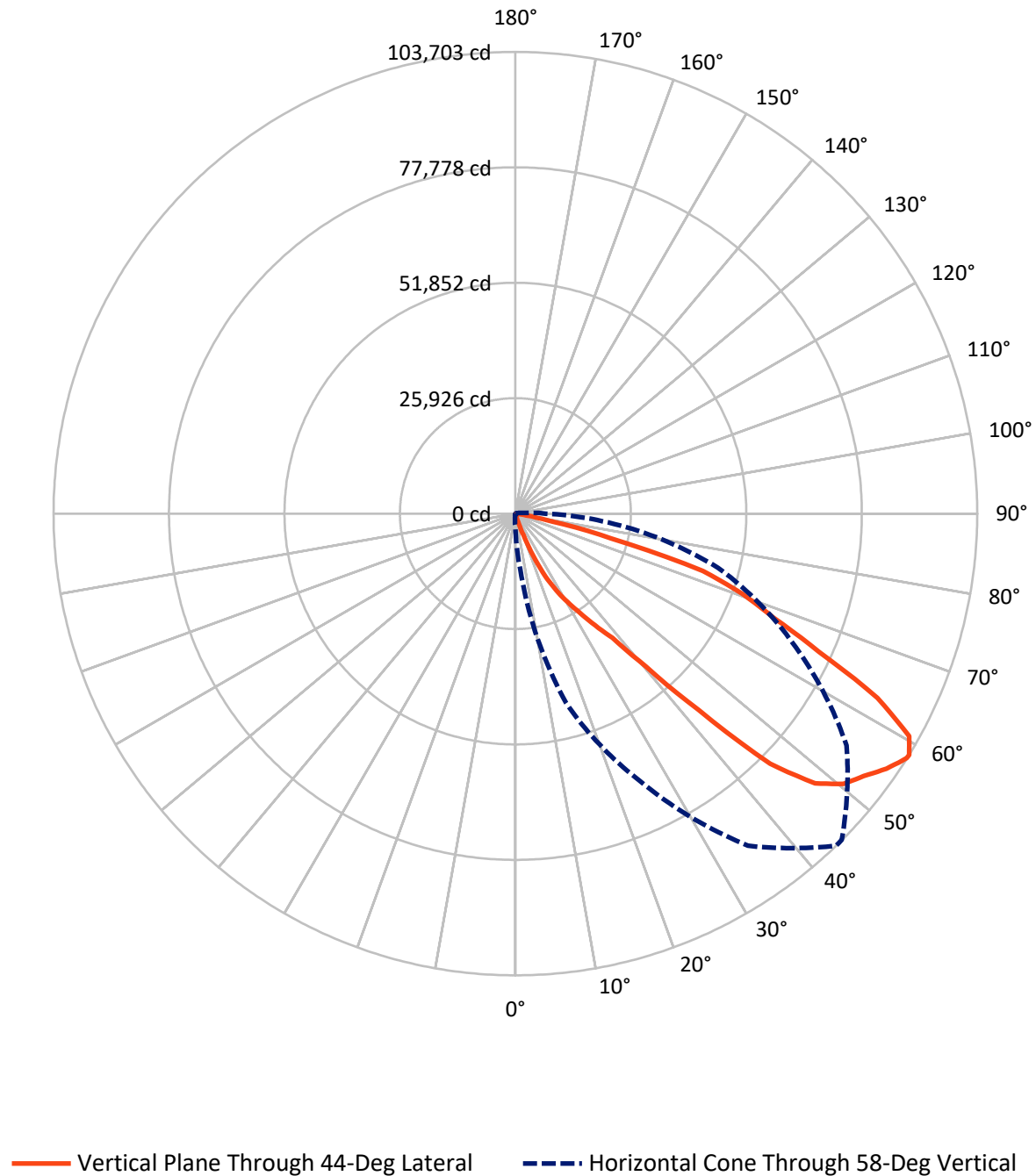
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 70.4 fc
 Type III - Short - N/A

REPORT NUMBER: P1049819
CATALOG NUMBER: GALN-SA9C-835-U-LBC

Luminous Intensity Polar Plot



REPORT NUMBER: P1049819

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	276.0	0.0	276.0
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	40148.0	0.0	40148.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	40424.0	0.0	40424.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.8	0.0
10°-20°	88.7	0.2
20°-30°	957.6	2.4
30°-40°	2832.1	7.0
40°-50°	8441.2	20.9
50°-60°	13394.1	33.1
60°-70°	11172.3	27.6
70°-80°	3445.7	8.5
80°-90°	76.5	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°	40424.0	100.0
0°-180°	40424.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1049819

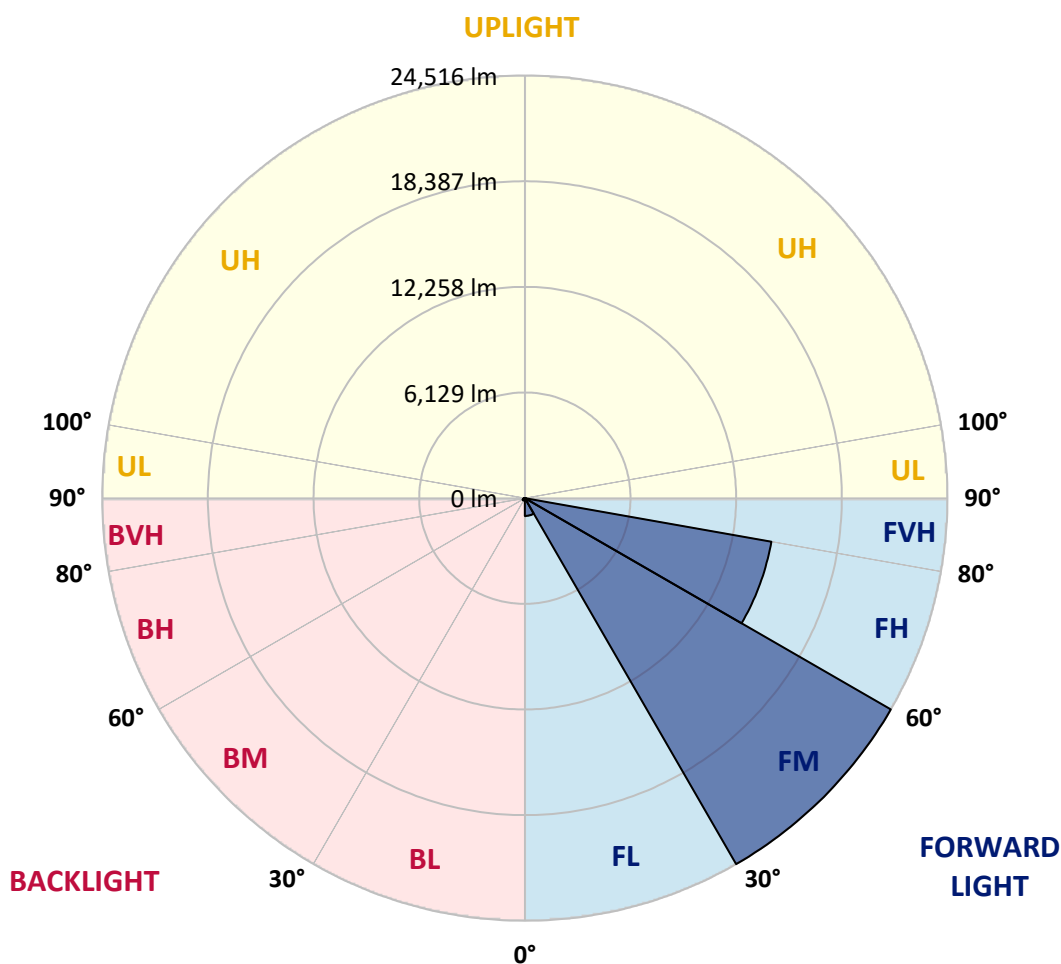
CATALOG NUMBER: GALN-SA9C-835-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1035.1	2.6			
FM	(30°-60°)	24516.3	60.6			
FH	(60°-80°)	14523.8	35.9			G5
FVH	(80°-90°)	72.8	0.2			G1/100
BL	(0°-30°)	27.0	0.1	B0/110		
BM	(30°-60°)	151.1	0.4	B0/220		
BH	(60°-80°)	94.2	0.2	B0/110		G0/110
BVH	(80°-90°)	3.7	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-G5

Type III Short



REPORT NUMBER: P1049819

CATALOG NUMBER: GALN-SA9C-835-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	177.1	177.1	177.1	177.1	177.1	177.1	177.1	177.1	177.1	177.1
2.5°	229.0	229.0	219.9	207.7	195.4	183.2	180.2	174.1	171.0	168.0
5°	238.2	238.2	235.1	226.0	213.8	204.6	204.6	195.4	189.3	183.2
7.5°	244.3	247.3	253.5	250.4	244.3	235.1	235.1	229.0	219.9	204.6
10°	253.5	262.6	274.8	280.9	284.0	284.0	280.9	277.9	262.6	241.2
12.5°	262.6	280.9	311.5	342.0	360.3	384.8	381.7	375.6	335.9	290.1
15°	280.9	308.4	372.6	461.1	598.5	684.0	717.6	687.1	555.8	390.9
17.5°	302.3	348.1	540.5	965.0	1581.8	1875.0	2052.1	1908.6	1264.2	742.0
20°	323.7	424.5	1004.7	2501.0	4104.2	5063.0	5328.7	4913.4	3154.5	1413.9
22.5°	360.3	595.5	2036.8	5169.9	8843.5	10281.8	10553.6	9225.2	5957.8	2791.1
25°	436.7	864.2	3511.7	8425.1	13198.1	15625.7	15512.8	13772.2	9664.9	4458.4
27.5°	546.6	1258.1	5310.4	11970.5	17369.4	19510.0	19766.6	17613.7	12883.5	6556.3
30°	705.4	1743.7	7240.3	14810.4	20713.2	23027.9	23070.6	20844.5	15763.2	8397.7
32.5°	858.1	2201.7	8929.0	17555.7	24008.1	26545.7	26735.1	23995.9	17913.0	10315.4
35°	974.1	2501.0	10639.1	19968.1	27330.5	30827.0	30814.8	27562.6	20459.7	12028.5
37.5°	983.3	2800.2	12187.3	22435.5	31538.5	35453.4	35841.2	32256.2	23537.9	14147.8
40°	961.9	3136.1	14147.8	26283.1	39120.9	45127.5	45469.5	40950.0	29712.4	17775.5
42.5°	986.3	3719.4	17329.7	33389.1	51711.2	60337.9	60997.5	56246.0	41063.0	25177.7
45°	1114.6	4815.7	23995.9	45277.1	69657.8	80174.7	79954.8	73111.5	54270.2	36445.8
47.5°	1539.1	7499.9	33877.7	56847.5	81127.4	90493.1	90682.4	82318.4	61977.7	45109.1
50°	2366.6	11475.8	42180.7	62964.1	86059.2	95455.4	95278.3	85613.3	64906.2	49375.2
52.5°	3078.1	14352.4	46345.9	65110.8	86691.3	97907.5	97895.3	86480.6	65361.2	49741.6
55°	3255.2	14569.2	46379.5	65226.9	88108.2	101116.9	101520.0	88615.1	65950.6	48141.5
57.5°	3185.0	12898.8	44443.4	65898.7	90630.5	103599.6	103620.9	90682.4	67446.9	47161.2
58°	3123.9	12636.2	44052.6	66280.4	91064.2	103703.4	103651.5	90777.1	68665.3	47124.6
60°	2781.9	10971.9	42528.8	67254.5	90419.8	101571.9	101086.4	88709.8	68485.2	46749.0
62.5°	2186.4	8559.5	41029.4	66127.7	83512.4	91253.5	91455.0	78537.9	62432.7	44559.5
65°	1740.6	6379.2	37902.4	58004.9	68769.2	74937.6	75688.8	63864.9	52111.3	37731.4
67.5°	1386.4	4611.1	31795.0	46181.0	54416.8	62542.7	63089.3	53619.8	40372.9	28909.3
70°	1126.8	3117.8	21946.9	33773.8	44883.2	54019.8	54053.4	44544.2	30133.8	18942.1
72.5°	998.6	2159.0	12740.0	24631.1	36393.9	44019.0	43130.4	36146.6	23159.2	11219.3
75°	864.2	1432.2	6247.9	15057.8	22066.0	22215.6	22554.6	16767.8	11576.5	5334.8
77.5°	711.5	1016.9	2461.3	4113.3	6617.4	8470.9	8785.5	6657.0	3850.7	1313.1
80°	488.6	482.5	662.7	1261.2	1893.3	2372.7	2213.9	1713.1	1007.7	503.9
82.5°	210.7	229.0	299.3	360.3	293.2	284.0	271.8	174.1	134.4	103.8
85°	67.2	61.1	64.1	64.1	51.9	39.7	39.7	18.3	0.0	0.0
87.5°	33.6	27.5	27.5	24.4	15.3	6.1	3.1	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: P1049819

CATALOG NUMBER: GALN-SA9C-835-U-LBC

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
177.1	0°	177.1	177.1	177.1	177.1	177.1	177.1	177.1	177.1	177.1	177.1
164.9	2.5°	161.8	161.8	155.7	149.6	146.6	140.5	137.4	134.4	131.3	128.3
177.1	5°	171.0	168.0	158.8	149.6	140.5	131.3	125.2	119.1	113.0	109.9
195.4	7.5°	186.3	180.2	161.8	146.6	134.4	122.1	116.0	106.9	100.8	91.6
216.8	10°	204.6	192.4	168.0	149.6	131.3	116.0	106.9	97.7	88.6	76.3
247.3	12.5°	229.0	207.7	177.1	146.6	125.2	106.9	97.7	85.5	76.3	67.2
287.0	15°	250.4	222.9	180.2	146.6	119.1	97.7	85.5	73.3	64.1	51.9
360.3	17.5°	280.9	235.1	177.1	137.4	109.9	85.5	73.3	64.1	48.9	30.5
534.4	20°	332.9	244.3	171.0	128.3	94.7	70.2	55.0	42.8	21.4	6.1
803.1	22.5°	415.3	268.7	164.9	116.0	82.4	55.0	36.6	15.3	0.0	0.0
1221.5	25°	574.1	311.5	164.9	109.9	73.3	39.7	12.2	0.0	0.0	0.0
1734.5	27.5°	763.4	369.5	164.9	94.7	58.0	21.4	0.0	0.0	0.0	0.0
2363.6	30°	955.8	433.6	164.9	82.4	45.8	3.1	0.0	0.0	0.0	0.0
2910.2	32.5°	1139.0	488.6	168.0	70.2	30.5	0.0	0.0	0.0	0.0	0.0
3667.5	35°	1325.3	497.8	164.9	61.1	18.3	0.0	0.0	0.0	0.0	0.0
4595.8	37.5°	1563.5	479.4	155.7	55.0	9.2	0.0	0.0	0.0	0.0	0.0
6046.3	40°	1923.8	488.6	146.6	51.9	3.1	0.0	0.0	0.0	0.0	0.0
8632.8	42.5°	2589.5	528.3	134.4	51.9	0.0	0.0	0.0	0.0	0.0	0.0
13750.8	45°	4476.7	708.5	122.1	55.0	0.0	0.0	0.0	0.0	0.0	0.0
20643.0	47.5°	7405.2	1273.4	119.1	55.0	0.0	0.0	0.0	0.0	0.0	0.0
24866.2	50°	9451.2	1603.2	125.2	58.0	0.0	0.0	0.0	0.0	0.0	0.0
25394.5	52.5°	9435.9	1786.4	131.3	61.1	12.2	0.0	0.0	0.0	0.0	0.0
23406.6	55°	8388.5	1820.0	140.5	67.2	39.7	0.0	0.0	0.0	0.0	0.0
20114.7	57.5°	7011.3	1661.2	161.8	82.4	73.3	0.0	0.0	0.0	0.0	0.0
19598.6	58°	6767.0	1587.9	168.0	85.5	79.4	0.0	0.0	0.0	0.0	0.0
16999.9	60°	5545.5	1294.8	213.8	106.9	106.9	0.0	0.0	0.0	0.0	0.0
13937.1	62.5°	3829.3	1129.9	244.3	137.4	109.9	0.0	0.0	0.0	0.0	0.0
10275.7	65°	2708.6	1019.9	265.7	146.6	88.6	0.0	0.0	0.0	0.0	0.0
7301.4	67.5°	2024.6	940.5	293.2	149.6	45.8	0.0	0.0	0.0	0.0	0.0
4580.5	70°	1551.3	882.5	360.3	158.8	12.2	0.0	0.0	0.0	0.0	0.0
2730.0	72.5°	1264.2	815.3	436.7	164.9	0.0	0.0	0.0	0.0	0.0	0.0
1636.8	75°	1047.4	735.9	421.4	180.2	0.0	0.0	0.0	0.0	0.0	0.0
873.4	77.5°	696.2	571.0	384.8	180.2	0.0	0.0	0.0	0.0	0.0	0.0
311.5	80°	244.3	226.0	299.3	158.8	0.0	0.0	0.0	0.0	0.0	0.0
64.1	82.5°	36.6	30.5	42.8	55.0	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	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: P1049819

CATALOG NUMBER: GALN-SA9C-835-U-LBC

CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
177.1	0°	177.1	177.1	177.1	177.1	177.1	177.1	177.1	177.1	177.1	177.1
125.2	2.5°	125.2	125.2	122.1	125.2	125.2	131.3	146.6	168.0	192.4	201.5
106.9	5°	103.8	100.8	97.7	97.7	97.7	106.9	119.1	143.5	171.0	183.2
88.6	7.5°	85.5	82.4	79.4	76.3	76.3	82.4	97.7	125.2	152.7	164.9
73.3	10°	70.2	64.1	61.1	58.0	58.0	64.1	79.4	106.9	137.4	149.6
61.1	12.5°	58.0	48.9	42.8	39.7	36.6	45.8	61.1	85.5	119.1	134.4
45.8	15°	39.7	30.5	21.4	18.3	15.3	24.4	39.7	67.2	100.8	119.1
24.4	17.5°	21.4	9.2	3.1	0.0	0.0	6.1	18.3	48.9	82.4	97.7
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.4	61.1	76.3
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	36.6	51.9
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.3	27.5
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1
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	9.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.2	24.4
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: P1049819

CATALOG NUMBER: GALN-SA9C-835-U-LBC

CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
177.1	0°	177.1	177.1	177.1	177.1	177.1	177.1	177.1	177.1	177.1	177.1
210.7	2.5°	216.8	213.8	207.7	201.5	201.5	201.5	210.7	219.9	229.0	229.0
189.3	5°	201.5	201.5	198.5	192.4	192.4	195.4	207.7	222.9	235.1	238.2
174.1	7.5°	186.3	192.4	186.3	183.2	186.3	189.3	201.5	219.9	238.2	244.3
161.8	10°	177.1	180.2	180.2	177.1	177.1	183.2	195.4	219.9	244.3	253.5
146.6	12.5°	164.9	171.0	168.0	168.0	168.0	174.1	189.3	216.8	250.4	262.6
131.3	15°	152.7	161.8	161.8	158.8	158.8	161.8	183.2	213.8	259.6	280.9
113.0	17.5°	140.5	149.6	152.7	146.6	146.6	152.7	174.1	213.8	265.7	302.3
91.6	20°	116.0	131.3	140.5	131.3	131.3	137.4	158.8	201.5	268.7	323.7
67.2	22.5°	91.6	106.9	119.1	116.0	116.0	119.1	146.6	192.4	271.8	360.3
39.7	25°	67.2	82.4	91.6	97.7	97.7	106.9	134.4	186.3	284.0	436.7
18.3	27.5°	39.7	58.0	70.2	76.3	79.4	91.6	125.2	180.2	305.4	546.6
0.0	30°	18.3	33.6	48.9	61.1	61.1	82.4	116.0	174.1	332.9	705.4
0.0	32.5°	0.0	15.3	24.4	42.8	45.8	67.2	106.9	168.0	372.6	858.1
0.0	35°	0.0	0.0	12.2	33.6	33.6	55.0	97.7	161.8	433.6	974.1
0.0	37.5°	0.0	0.0	0.0	24.4	27.5	48.9	94.7	158.8	445.8	983.3
0.0	40°	0.0	0.0	0.0	18.3	21.4	45.8	94.7	161.8	403.1	961.9
0.0	42.5°	0.0	0.0	0.0	12.2	15.3	45.8	94.7	168.0	363.4	986.3
0.0	45°	0.0	0.0	0.0	9.2	12.2	48.9	91.6	164.9	342.0	1114.6
0.0	47.5°	0.0	0.0	0.0	12.2	18.3	48.9	88.6	161.8	345.1	1539.1
0.0	50°	0.0	0.0	0.0	15.3	21.4	48.9	91.6	155.7	378.7	2366.6
0.0	52.5°	0.0	0.0	0.0	12.2	18.3	55.0	100.8	152.7	412.2	3078.1
0.0	55°	0.0	0.0	0.0	3.1	9.2	70.2	109.9	152.7	464.2	3255.2
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	79.4	125.2	161.8	549.7	3185.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	79.4	128.3	161.8	555.8	3123.9
0.0	60°	0.0	0.0	0.0	0.0	0.0	79.4	140.5	180.2	598.5	2781.9
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	67.2	168.0	226.0	623.0	2186.4
0.0	65°	0.0	0.0	0.0	0.0	0.0	55.0	198.5	247.3	641.3	1740.6
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	51.9	204.6	250.4	650.4	1386.4
0.0	70°	0.0	0.0	0.0	0.0	0.0	55.0	201.5	268.7	681.0	1126.8
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	61.1	183.2	296.2	681.0	998.6
0.0	75°	0.0	0.0	0.0	0.0	0.0	64.1	171.0	332.9	619.9	864.2
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	61.1	168.0	387.8	552.7	711.5
0.0	80°	6.1	9.2	9.2	6.1	6.1	51.9	164.9	393.9	470.3	488.6
3.1	82.5°	18.3	24.4	21.4	15.3	15.3	45.8	146.6	329.8	244.3	210.7
18.3	85°	33.6	39.7	39.7	33.6	33.6	42.8	91.6	119.1	82.4	67.2
33.6	87.5°	45.8	51.9	51.9	45.8	45.8	42.8	39.7	36.6	33.6	33.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-10

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-835-U-5WQ

Data in this report applies to families of products including GSS-SB1A-835-U-5WQ

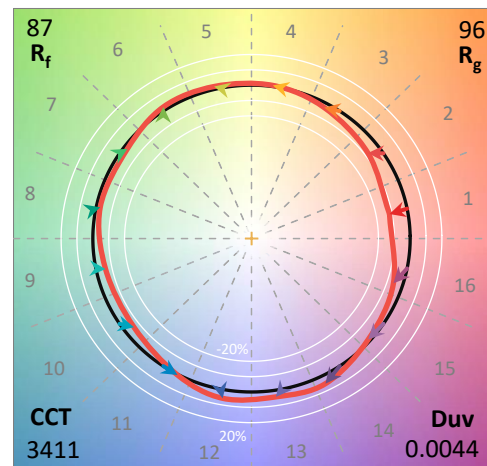
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-10
 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-835-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K): 3411
 CIE u' : 0.2360
 CIE v' : 0.5189
 Duv: 0.0044
 CIE x: 0.4154
 CIE y: 0.4059
 CIE z: 0.1787
 Peak Wavelength (nm): 601
 Dominant Wavelength (nm): 579
 Purity: 46.51914
 R_f: 86.6
 R_g: 95.9

CRI (Ra): 83.5
 R1: 81.1
 R2: 88.9
 R3: 97.2
 R4: 83.8
 R5: 81.7
 R6: 86.9
 R7: 86.1
 R8: 62.2
 R9: 6.3
 R10: 75.4
 R11: 84.1
 R12: 69.7
 R13: 82.8
 R14: 98.5
 R15: 72.6



Test Conditions

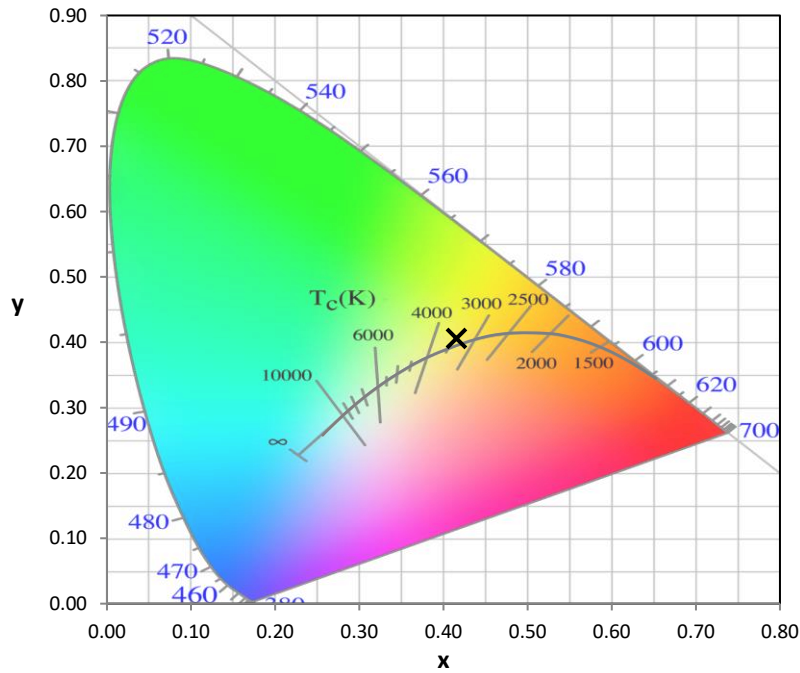
Stabilization Time: 35M
 Operation Time: 1H 35M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-10

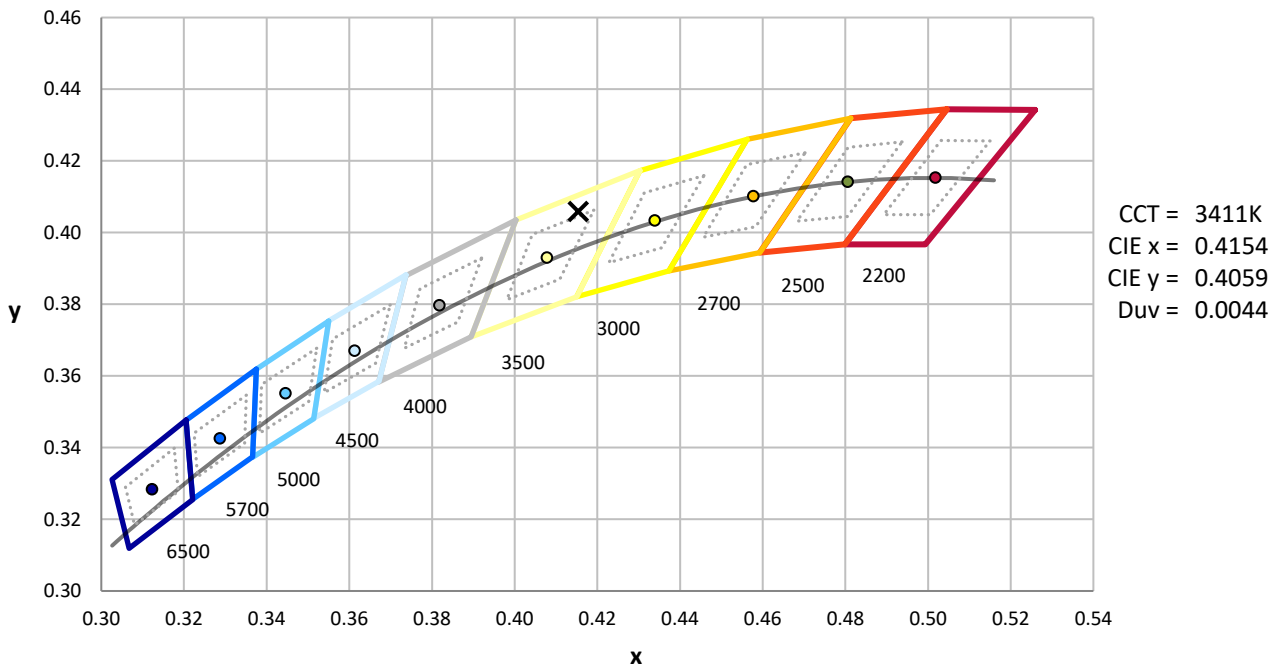
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-10

CIE 1931 Chromaticity Diagram



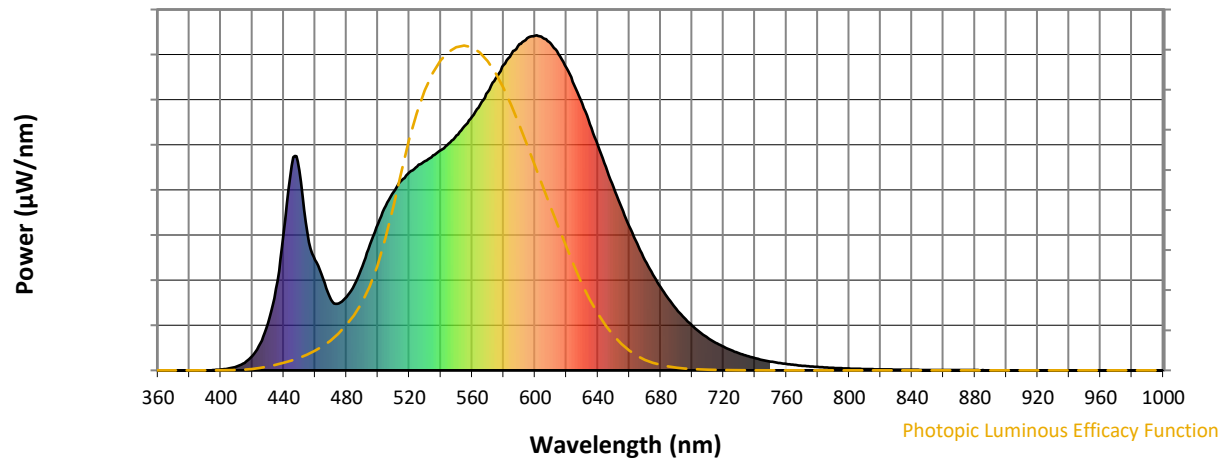
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-10

Photopic Flux vs. Wavelength

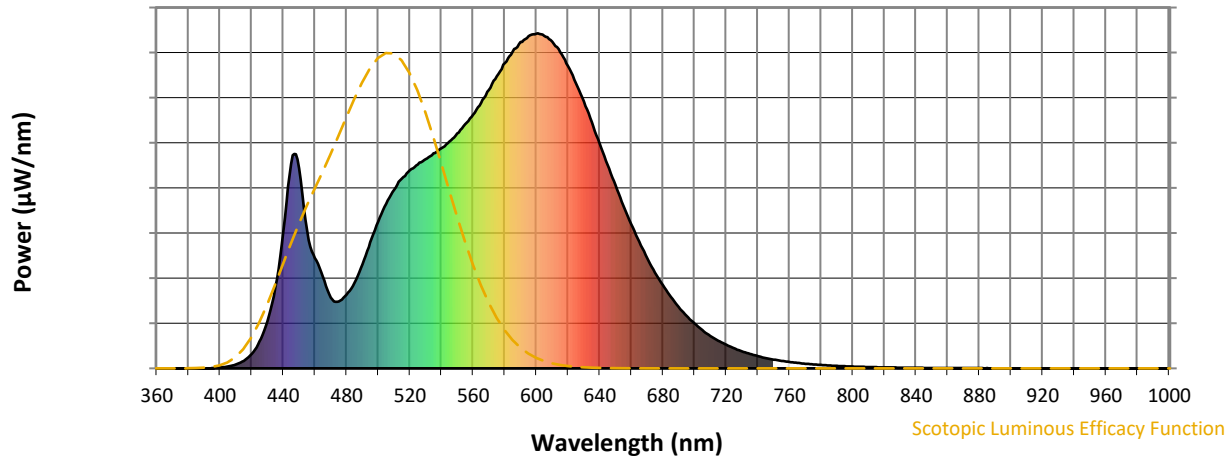


Photopic Lumens: NR

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

Scotopic Flux vs. Wavelength



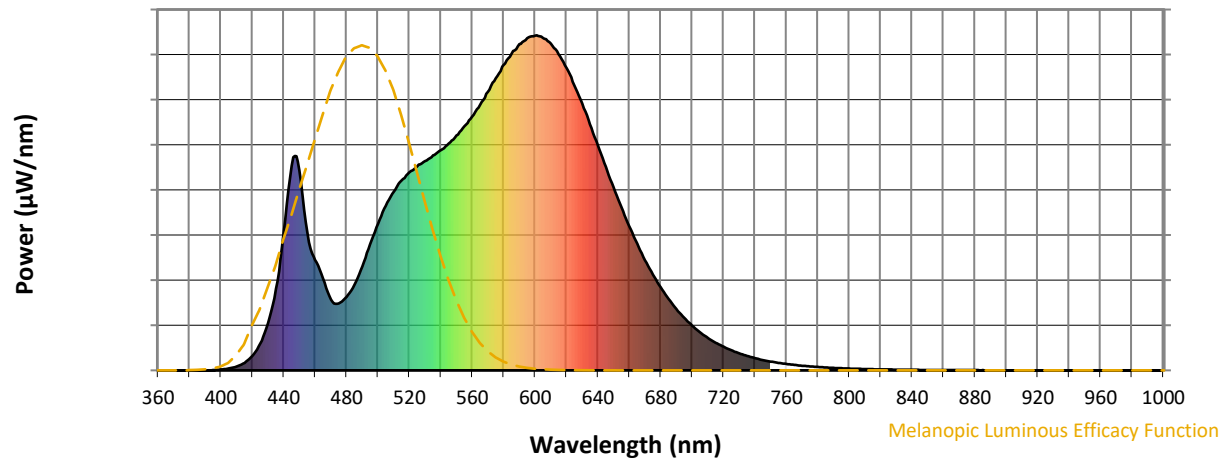
Scotopic Lumens: NR

S/P: 1.48

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.88

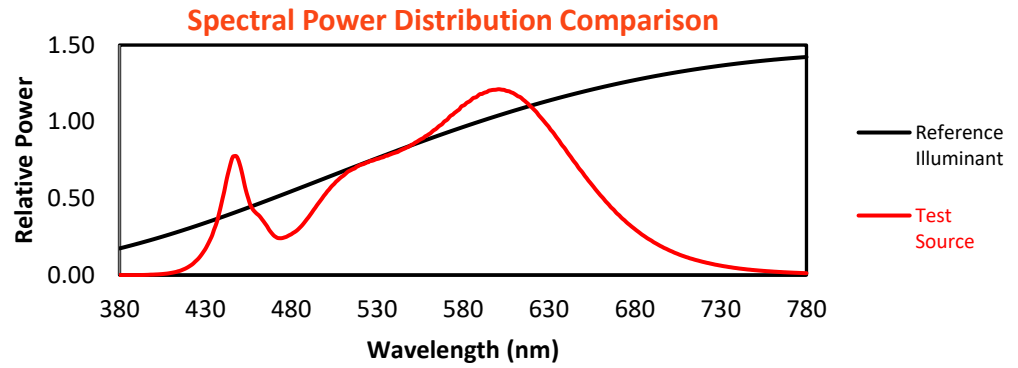
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

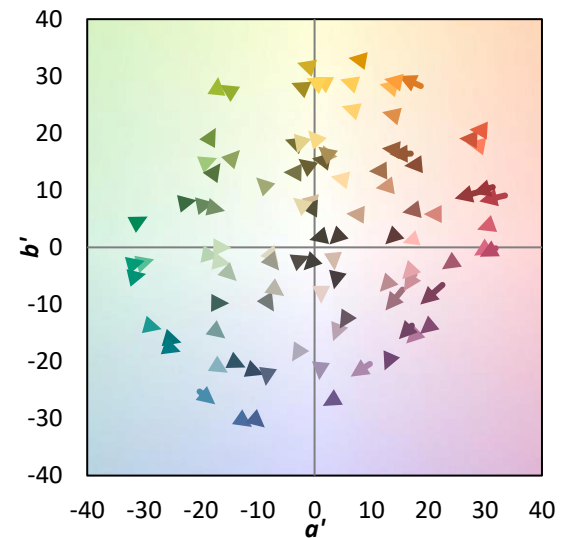
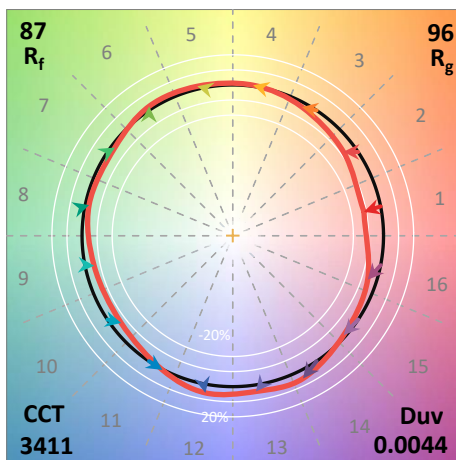
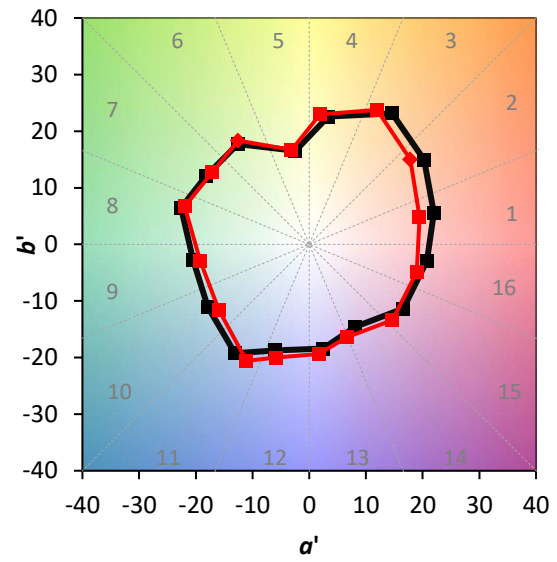
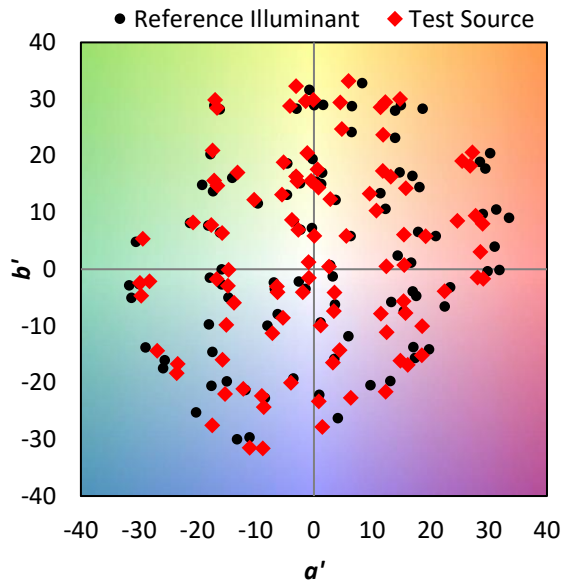
TM-30-18

Summary

$R_f = 86.6$
 $R_g = 95.9$
 $\text{CIE } R_a = 83.5$
 $R_9 = 6.3$

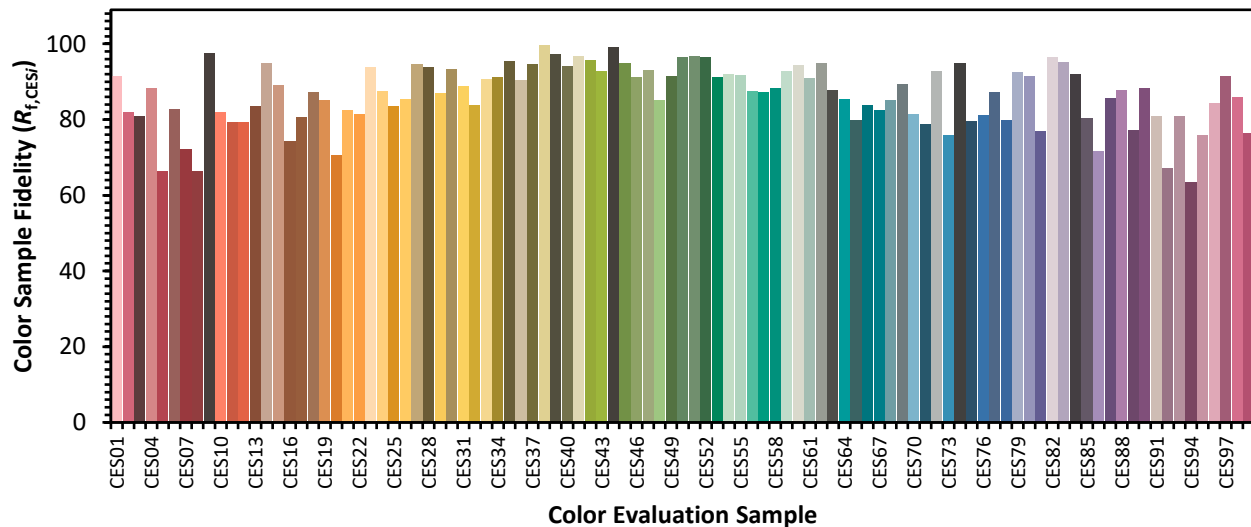


Color Vector Graphics

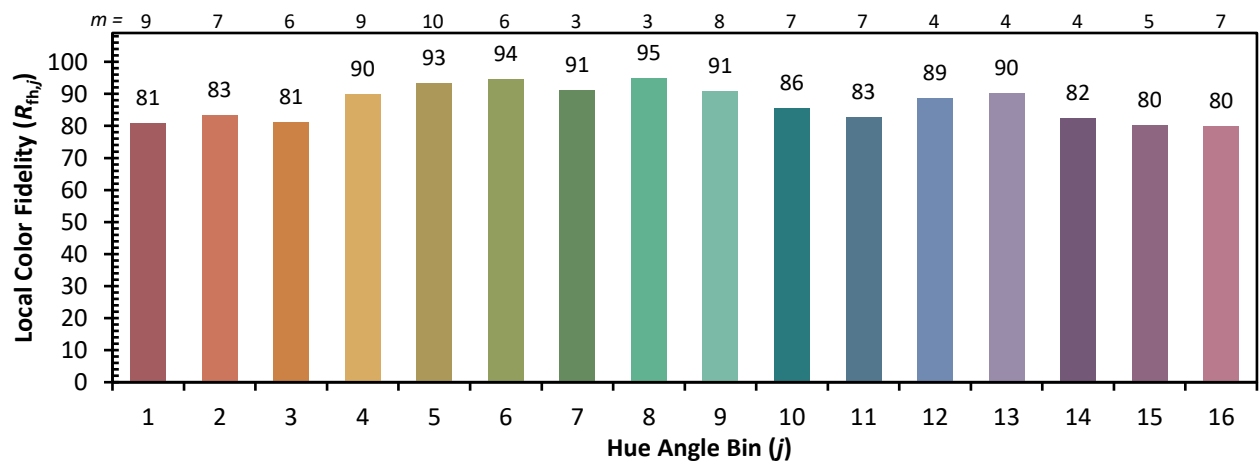
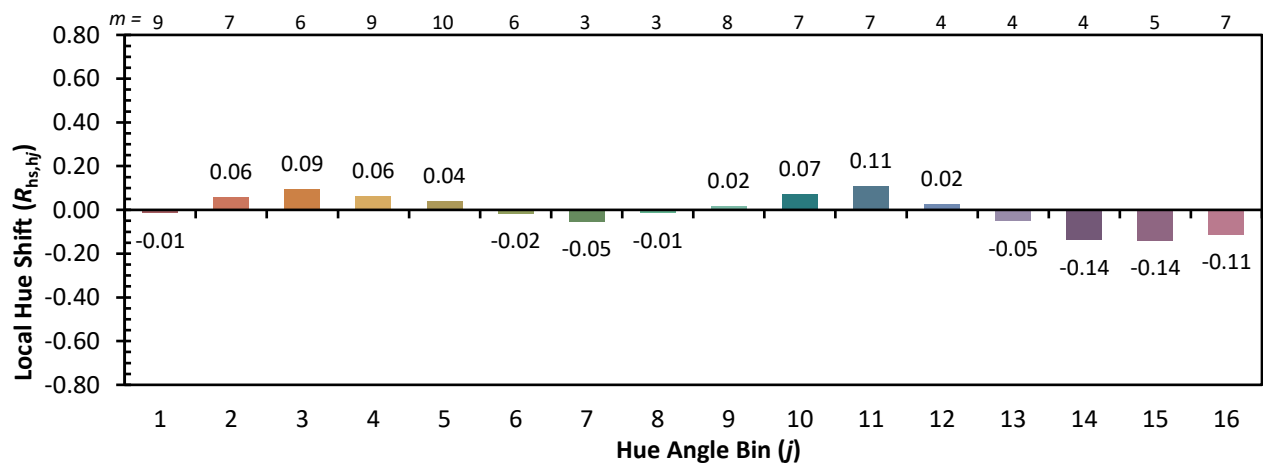
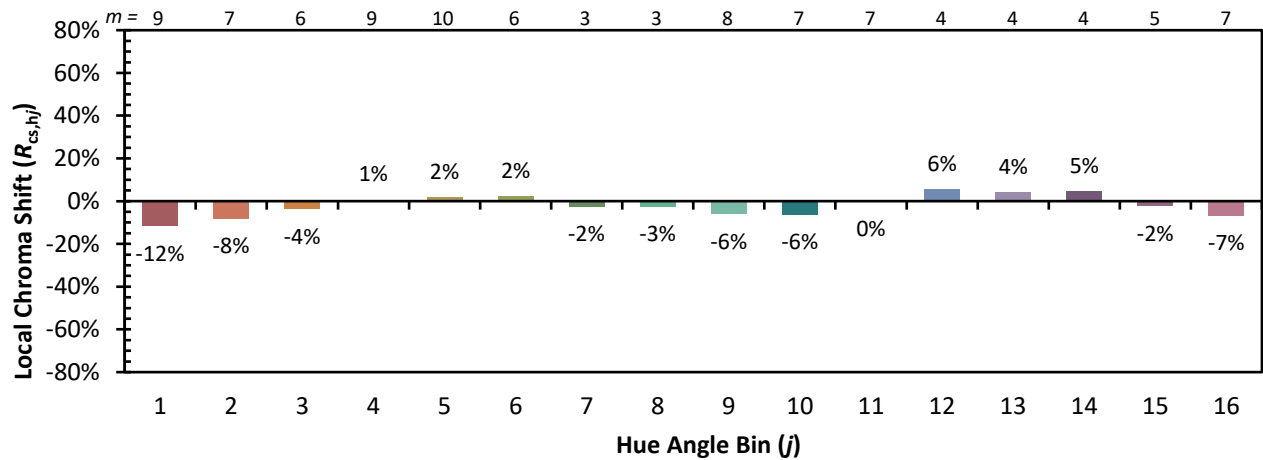


Individual Sample Fidelity Index ($R_{f,i}$)

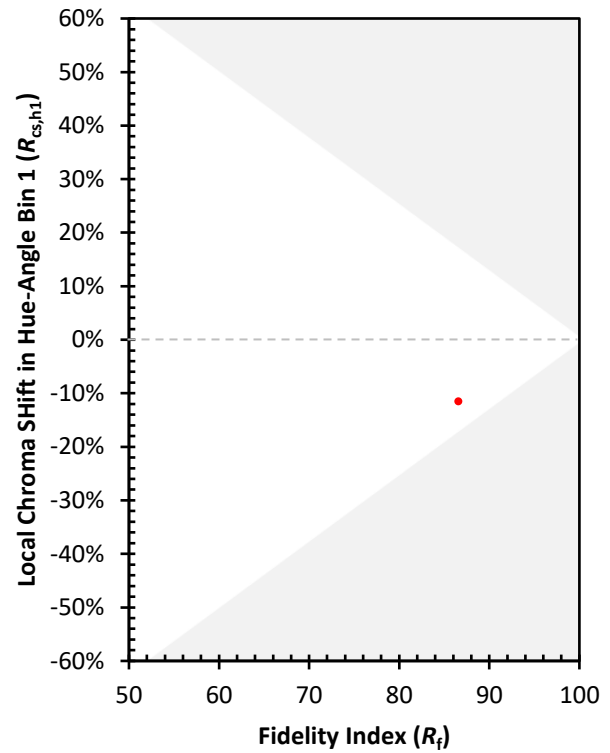
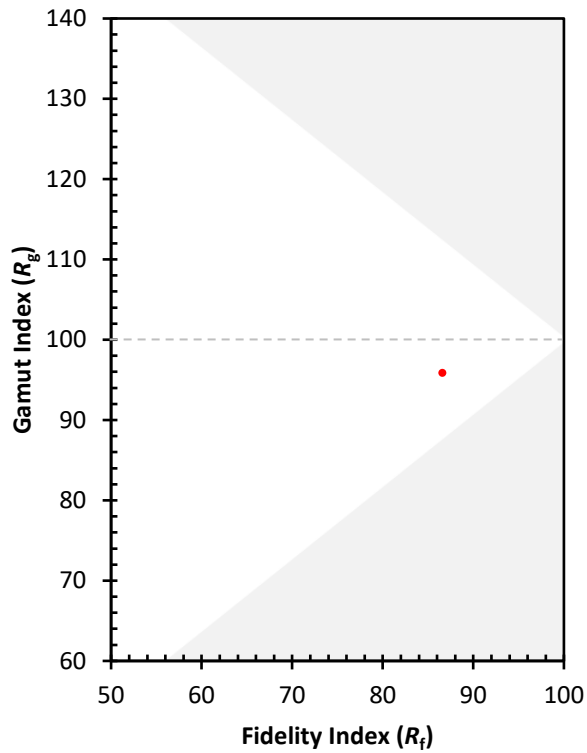
CES01 = 86	CES26 = 85	CES51 = 97	CES76 = 81
CES02 = 62	CES27 = 95	CES52 = 96	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 91	CES78 = 80
CES04 = 70	CES29 = 87	CES54 = 92	CES79 = 93
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 91
CES06 = 51	CES31 = 89	CES56 = 88	CES81 = 77
CES07 = 41	CES32 = 84	CES57 = 87	CES82 = 96
CES08 = 40	CES33 = 91	CES58 = 88	CES83 = 95
CES09 = 29	CES34 = 91	CES59 = 93	CES84 = 92
CES10 = 75	CES35 = 95	CES60 = 94	CES85 = 80
CES11 = 58	CES36 = 90	CES61 = 91	CES86 = 72
CES12 = 64	CES37 = 95	CES62 = 95	CES87 = 86
CES13 = 43	CES38 = 100	CES63 = 88	CES88 = 88
CES14 = 74	CES39 = 97	CES64 = 85	CES89 = 77
CES15 = 71	CES40 = 94	CES65 = 80	CES90 = 88
CES16 = 47	CES41 = 97	CES66 = 84	CES91 = 81
CES17 = 49	CES42 = 96	CES67 = 82	CES92 = 67
CES18 = 56	CES43 = 93	CES68 = 85	CES93 = 81
CES19 = 72	CES44 = 99	CES69 = 89	CES94 = 63
CES20 = 66	CES45 = 95	CES70 = 81	CES95 = 76
CES21 = 86	CES46 = 91	CES71 = 79	CES96 = 84
CES22 = 78	CES47 = 93	CES72 = 93	CES97 = 92
CES23 = 91	CES48 = 85	CES73 = 76	CES98 = 86
CES24 = 90	CES49 = 92	CES74 = 95	CES99 = 77
CES25 = 72	CES50 = 96	CES75 = 80	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)