

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: P1049823

Luminaire Tested: **GALN-SA1C-840-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049823
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-840-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 1xLight Square PACKAGE
80CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

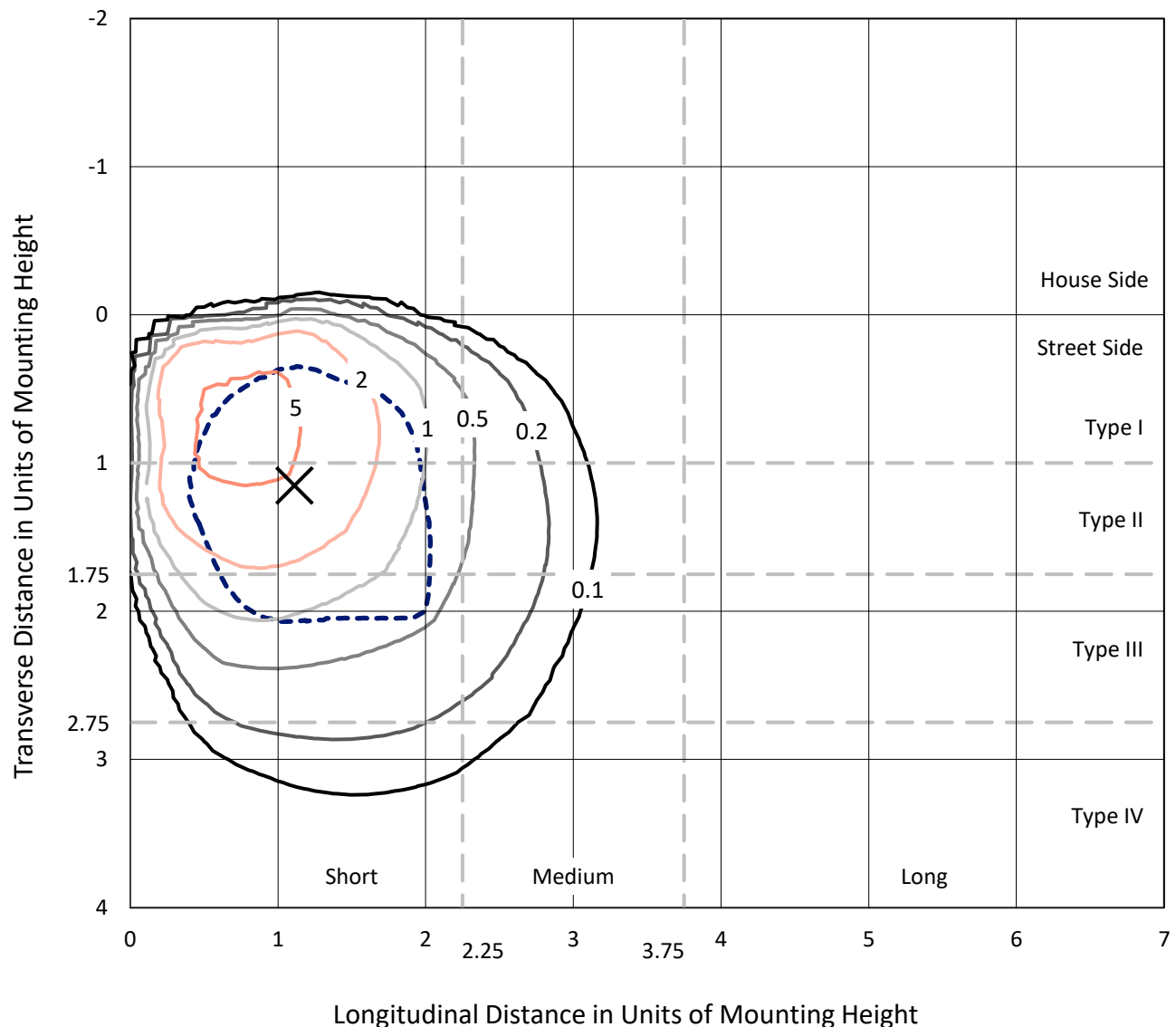
Lumens per Lamp: N/A
Luminaire Lumens: 4729.7 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 50.2
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: P1049823
 CATALOG NUMBER: GALN-SA1C-840-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

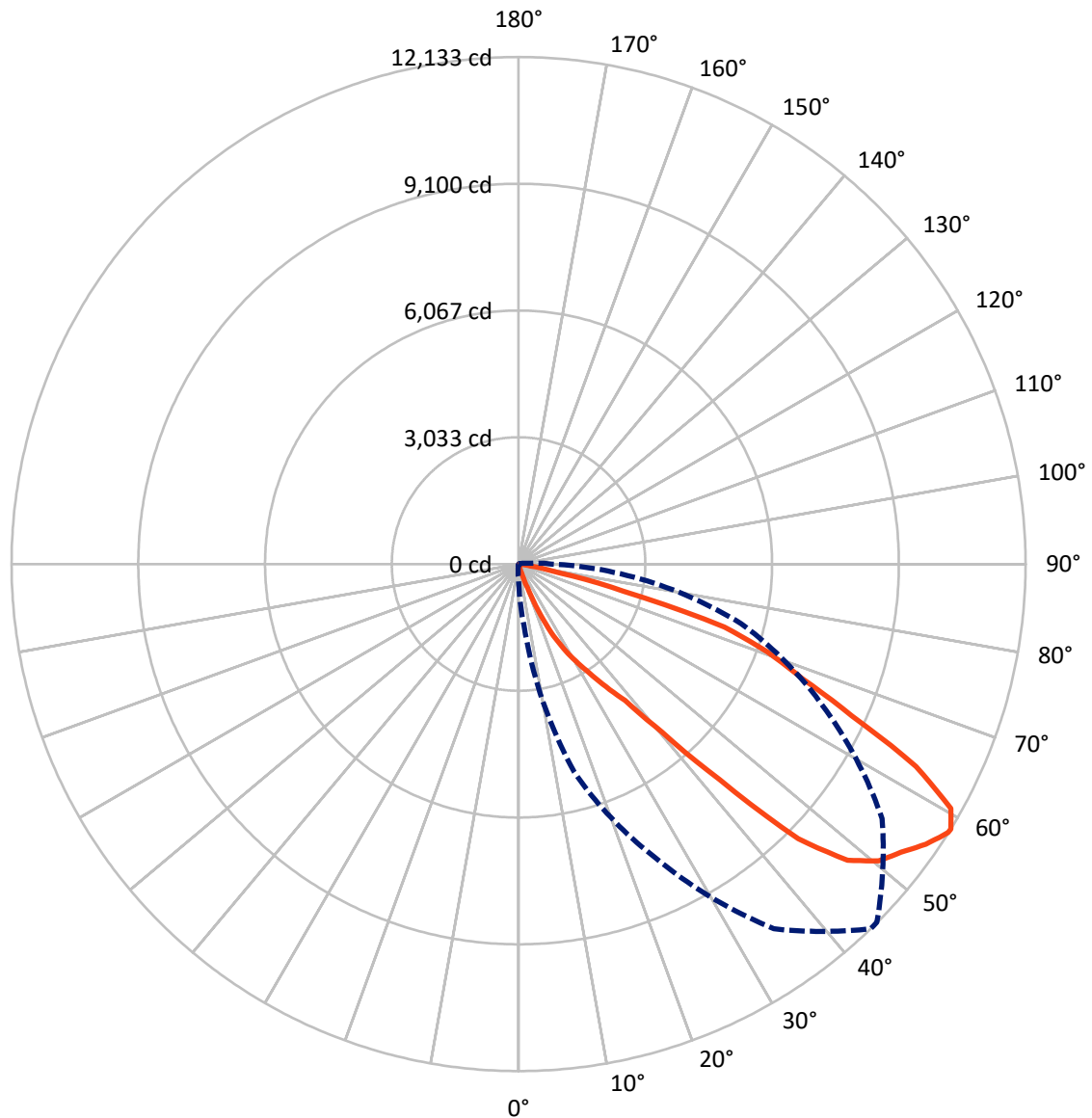
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Short - N/A

REPORT NUMBER: P1049823
CATALOG NUMBER: GALN-SA1C-840-U-LBC

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

REPORT NUMBER: P1049823

CATALOG NUMBER: GALN-SA1C-840-U-LBC

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	32.3	0.0	32.3
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	4697.4	0.0	4697.4
	% Fixture	99.3	0.0	99.3
Total	Lumens	4729.7	0.0	4729.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.0
10°-20°	10.4	0.2
20°-30°	112.0	2.4
30°-40°	331.4	7.0
40°-50°	987.6	20.9
50°-60°	1567.1	33.1
60°-70°	1307.2	27.6
70°-80°	403.2	8.5
80°-90°	9.0	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°	4729.7	100.0
0°-180°	4729.7	100.0



REPORT NUMBER: P1049823

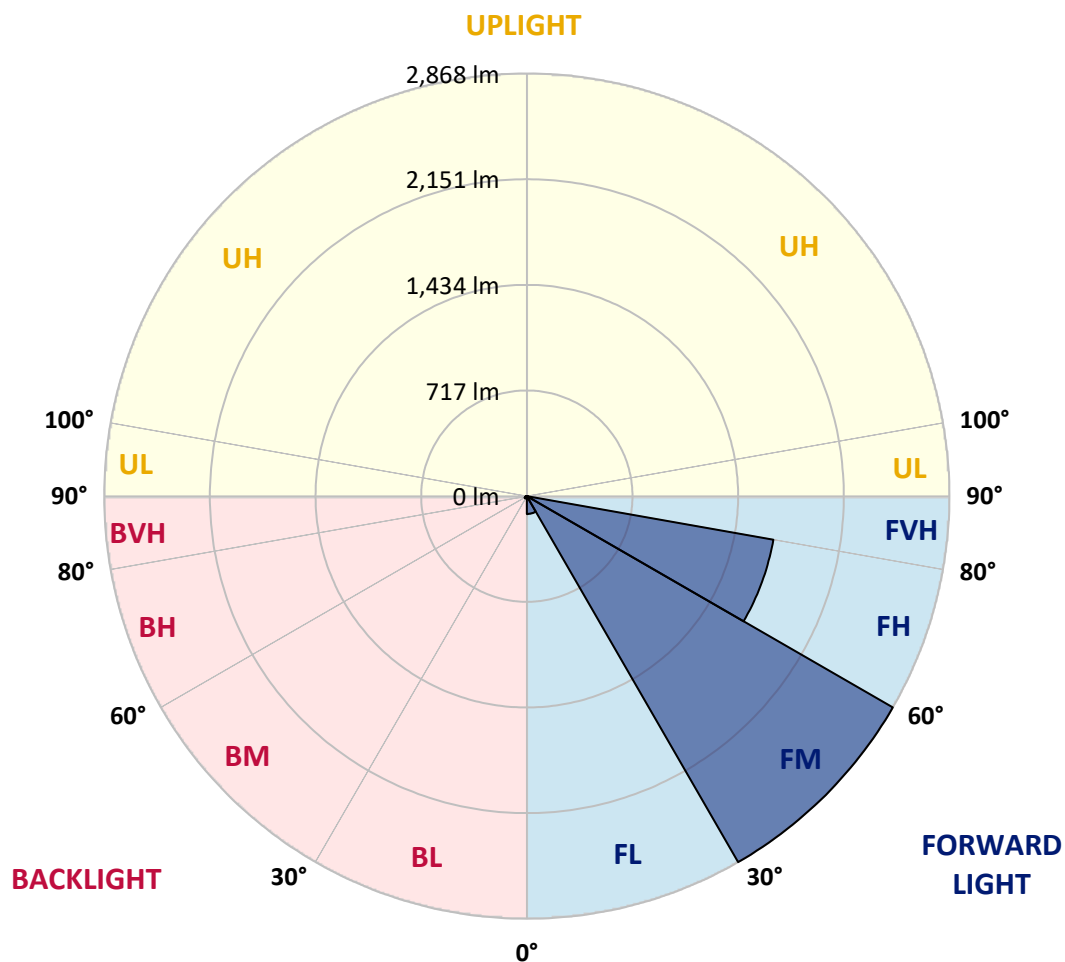
CATALOG NUMBER: GALN-SA1C-840-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	121.1	2.6			
FM	(30°-60°)	2868.4	60.6			
FH	(60°-80°)	1699.3	35.9			G1/1800
FVH	(80°-90°)	8.5	0.2			G0/10
BL	(0°-30°)	3.2	0.1	B0/110		
BM	(30°-60°)	17.7	0.4	B0/220		
BH	(60°-80°)	11.0	0.2	B0/110		G0/110
BVH	(80°-90°)	0.4	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-G1

Type III Short





REPORT NUMBER: P1049823

CATALOG NUMBER: GALN-SA1C-840-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
2.5°	26.8	26.8	25.7	24.3	22.9	21.4	21.1	20.4	20.0	19.7
5°	27.9	27.9	27.5	26.4	25.0	23.9	23.9	22.9	22.2	21.4
7.5°	28.6	28.9	29.7	29.3	28.6	27.5	27.5	26.8	25.7	23.9
10°	29.7	30.7	32.2	32.9	33.2	33.2	32.9	32.5	30.7	28.2
12.5°	30.7	32.9	36.4	40.0	42.2	45.0	44.7	43.9	39.3	33.9
15°	32.9	36.1	43.6	54.0	70.0	80.0	84.0	80.4	65.0	45.7
17.5°	35.4	40.7	63.2	112.9	185.1	219.4	240.1	223.3	147.9	86.8
20°	37.9	49.7	117.5	292.6	480.2	592.4	623.5	574.9	369.1	165.4
22.5°	42.2	69.7	238.3	604.9	1034.7	1203.0	1234.8	1079.4	697.1	326.6
25°	51.1	101.1	410.9	985.8	1544.2	1828.2	1815.0	1611.4	1130.8	521.6
27.5°	64.0	147.2	621.3	1400.6	2032.2	2282.7	2312.7	2060.8	1507.4	767.1
30°	82.5	204.0	847.1	1732.8	2423.5	2694.3	2699.3	2438.8	1844.3	982.5
32.5°	100.4	257.6	1044.7	2054.0	2809.0	3105.9	3128.0	2807.6	2095.8	1206.9
35°	114.0	292.6	1244.8	2336.3	3197.7	3606.8	3605.4	3224.9	2393.8	1407.4
37.5°	115.0	327.6	1425.9	2625.0	3690.1	4148.1	4193.5	3774.0	2754.0	1655.3
40°	112.5	366.9	1655.3	3075.2	4577.2	5280.0	5320.0	4791.2	3476.4	2079.8
42.5°	115.4	435.2	2027.6	3906.6	6050.3	7059.6	7136.8	6580.9	4804.4	2945.8
45°	130.4	563.4	2807.6	5297.5	8150.1	9380.6	9354.8	8554.1	6349.7	4264.2
47.5°	180.1	877.5	3963.7	6651.2	9492.0	10587.8	10610.0	9631.4	7251.5	5277.8
50°	276.9	1342.7	4935.2	7366.9	10069.0	11168.4	11147.7	10016.9	7594.1	5777.0
52.5°	360.1	1679.2	5422.5	7618.1	10143.0	11455.3	11453.9	10118.3	7647.4	5819.8
55°	380.9	1704.6	5426.5	7631.6	10308.8	11830.8	11878.0	10368.1	7716.3	5632.6
57.5°	372.6	1509.2	5199.9	7710.2	10603.9	12121.3	12123.8	10610.0	7891.4	5517.9
58°	365.5	1478.5	5154.2	7754.9	10654.6	12133.4	12127.4	10621.0	8033.9	5513.6
60°	325.5	1283.7	4975.9	7868.9	10579.2	11884.1	11827.2	10379.2	8012.9	5469.7
62.5°	255.8	1001.5	4800.5	7737.0	9771.1	10676.8	10700.4	9189.0	7304.7	5213.5
65°	203.7	746.4	4434.6	6786.7	8046.1	8767.8	8855.7	7472.3	6097.1	4414.6
67.5°	162.2	539.5	3720.1	5403.2	6366.8	7317.6	7381.5	6273.6	4723.7	3382.4
70°	131.8	364.8	2567.8	3951.6	5251.4	6320.4	6324.3	5211.7	3525.7	2216.2
72.5°	116.8	252.6	1490.6	2881.9	4258.1	5150.3	5046.3	4229.2	2709.7	1312.7
75°	101.1	167.6	731.0	1761.8	2581.8	2599.3	2638.9	1961.9	1354.5	624.2
77.5°	83.2	119.0	288.0	481.3	774.2	991.1	1027.9	778.9	450.5	153.6
80°	57.2	56.5	77.5	147.6	221.5	277.6	259.0	200.4	117.9	59.0
82.5°	24.7	26.8	35.0	42.2	34.3	33.2	31.8	20.4	15.7	12.1
85°	7.9	7.1	7.5	7.5	6.1	4.6	4.6	2.1	0.0	0.0
87.5°	3.9	3.2	3.2	2.9	1.8	0.7	0.4	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: P1049823

CATALOG NUMBER: GALN-SA1C-840-U-LBC

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
20.7	0°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
19.3	2.5°	18.9	18.9	18.2	17.5	17.1	16.4	16.1	15.7	15.4	15.0
20.7	5°	20.0	19.7	18.6	17.5	16.4	15.4	14.6	13.9	13.2	12.9
22.9	7.5°	21.8	21.1	18.9	17.1	15.7	14.3	13.6	12.5	11.8	10.7
25.4	10°	23.9	22.5	19.7	17.5	15.4	13.6	12.5	11.4	10.4	8.9
28.9	12.5°	26.8	24.3	20.7	17.1	14.6	12.5	11.4	10.0	8.9	7.9
33.6	15°	29.3	26.1	21.1	17.1	13.9	11.4	10.0	8.6	7.5	6.1
42.2	17.5°	32.9	27.5	20.7	16.1	12.9	10.0	8.6	7.5	5.7	3.6
62.5	20°	38.9	28.6	20.0	15.0	11.1	8.2	6.4	5.0	2.5	0.7
94.0	22.5°	48.6	31.4	19.3	13.6	9.6	6.4	4.3	1.8	0.0	0.0
142.9	25°	67.2	36.4	19.3	12.9	8.6	4.6	1.4	0.0	0.0	0.0
202.9	27.5°	89.3	43.2	19.3	11.1	6.8	2.5	0.0	0.0	0.0	0.0
276.5	30°	111.8	50.7	19.3	9.6	5.4	0.4	0.0	0.0	0.0	0.0
340.5	32.5°	133.3	57.2	19.7	8.2	3.6	0.0	0.0	0.0	0.0	0.0
429.1	35°	155.1	58.2	19.3	7.1	2.1	0.0	0.0	0.0	0.0	0.0
537.7	37.5°	182.9	56.1	18.2	6.4	1.1	0.0	0.0	0.0	0.0	0.0
707.4	40°	225.1	57.2	17.1	6.1	0.4	0.0	0.0	0.0	0.0	0.0
1010.0	42.5°	303.0	61.8	15.7	6.1	0.0	0.0	0.0	0.0	0.0	0.0
1608.9	45°	523.8	82.9	14.3	6.4	0.0	0.0	0.0	0.0	0.0	0.0
2415.3	47.5°	866.4	149.0	13.9	6.4	0.0	0.0	0.0	0.0	0.0	0.0
2909.4	50°	1105.8	187.6	14.6	6.8	0.0	0.0	0.0	0.0	0.0	0.0
2971.2	52.5°	1104.0	209.0	15.4	7.1	1.4	0.0	0.0	0.0	0.0	0.0
2738.6	55°	981.5	212.9	16.4	7.9	4.6	0.0	0.0	0.0	0.0	0.0
2353.4	57.5°	820.3	194.4	18.9	9.6	8.6	0.0	0.0	0.0	0.0	0.0
2293.1	58°	791.7	185.8	19.7	10.0	9.3	0.0	0.0	0.0	0.0	0.0
1989.0	60°	648.8	151.5	25.0	12.5	12.5	0.0	0.0	0.0	0.0	0.0
1630.7	62.5°	448.0	132.2	28.6	16.1	12.9	0.0	0.0	0.0	0.0	0.0
1202.3	65°	316.9	119.3	31.1	17.1	10.4	0.0	0.0	0.0	0.0	0.0
854.3	67.5°	236.9	110.0	34.3	17.5	5.4	0.0	0.0	0.0	0.0	0.0
535.9	70°	181.5	103.3	42.2	18.6	1.4	0.0	0.0	0.0	0.0	0.0
319.4	72.5°	147.9	95.4	51.1	19.3	0.0	0.0	0.0	0.0	0.0	0.0
191.5	75°	122.5	86.1	49.3	21.1	0.0	0.0	0.0	0.0	0.0	0.0
102.2	77.5°	81.5	66.8	45.0	21.1	0.0	0.0	0.0	0.0	0.0	0.0
36.4	80°	28.6	26.4	35.0	18.6	0.0	0.0	0.0	0.0	0.0	0.0
7.5	82.5°	4.3	3.6	5.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1049823

CATALOG NUMBER: GALN-SA1C-840-U-LBC

CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
20.7	0°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
14.6	2.5°	14.6	14.6	14.3	14.6	14.6	15.4	17.1	19.7	22.5	23.6
12.5	5°	12.1	11.8	11.4	11.4	11.4	12.5	13.9	16.8	20.0	21.4
10.4	7.5°	10.0	9.6	9.3	8.9	8.9	9.6	11.4	14.6	17.9	19.3
8.6	10°	8.2	7.5	7.1	6.8	6.8	7.5	9.3	12.5	16.1	17.5
7.1	12.5°	6.8	5.7	5.0	4.6	4.3	5.4	7.1	10.0	13.9	15.7
5.4	15°	4.6	3.6	2.5	2.1	1.8	2.9	4.6	7.9	11.8	13.9
2.9	17.5°	2.5	1.1	0.4	0.0	0.0	0.7	2.1	5.7	9.6	11.4
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	7.1	8.9
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	4.3	6.1
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.2
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
0.0	30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.9
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: P1049823

CATALOG NUMBER: GALN-SA1C-840-U-LBC

CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
20.7	0°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
24.7	2.5°	25.4	25.0	24.3	23.6	23.6	23.6	24.7	25.7	26.8	26.8
22.2	5°	23.6	23.6	23.2	22.5	22.5	22.9	24.3	26.1	27.5	27.9
20.4	7.5°	21.8	22.5	21.8	21.4	21.8	22.2	23.6	25.7	27.9	28.6
18.9	10°	20.7	21.1	21.1	20.7	20.7	21.4	22.9	25.7	28.6	29.7
17.1	12.5°	19.3	20.0	19.7	19.7	19.7	20.4	22.2	25.4	29.3	30.7
15.4	15°	17.9	18.9	18.9	18.6	18.6	18.9	21.4	25.0	30.4	32.9
13.2	17.5°	16.4	17.5	17.9	17.1	17.1	17.9	20.4	25.0	31.1	35.4
10.7	20°	13.6	15.4	16.4	15.4	15.4	16.1	18.6	23.6	31.4	37.9
7.9	22.5°	10.7	12.5	13.9	13.6	13.6	13.9	17.1	22.5	31.8	42.2
4.6	25°	7.9	9.6	10.7	11.4	11.4	12.5	15.7	21.8	33.2	51.1
2.1	27.5°	4.6	6.8	8.2	8.9	9.3	10.7	14.6	21.1	35.7	64.0
0.0	30°	2.1	3.9	5.7	7.1	7.1	9.6	13.6	20.4	38.9	82.5
0.0	32.5°	0.0	1.8	2.9	5.0	5.4	7.9	12.5	19.7	43.6	100.4
0.0	35°	0.0	0.0	1.4	3.9	3.9	6.4	11.4	18.9	50.7	114.0
0.0	37.5°	0.0	0.0	0.0	2.9	3.2	5.7	11.1	18.6	52.2	115.0
0.0	40°	0.0	0.0	0.0	2.1	2.5	5.4	11.1	18.9	47.2	112.5
0.0	42.5°	0.0	0.0	0.0	1.4	1.8	5.4	11.1	19.7	42.5	115.4
0.0	45°	0.0	0.0	0.0	1.1	1.4	5.7	10.7	19.3	40.0	130.4
0.0	47.5°	0.0	0.0	0.0	1.4	2.1	5.7	10.4	18.9	40.4	180.1
0.0	50°	0.0	0.0	0.0	1.8	2.5	5.7	10.7	18.2	44.3	276.9
0.0	52.5°	0.0	0.0	0.0	1.4	2.1	6.4	11.8	17.9	48.2	360.1
0.0	55°	0.0	0.0	0.0	0.4	1.1	8.2	12.9	17.9	54.3	380.9
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	9.3	14.6	18.9	64.3	372.6
0.0	58°	0.0	0.0	0.0	0.0	0.0	9.3	15.0	18.9	65.0	365.5
0.0	60°	0.0	0.0	0.0	0.0	0.0	9.3	16.4	21.1	70.0	325.5
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	7.9	19.7	26.4	72.9	255.8
0.0	65°	0.0	0.0	0.0	0.0	0.0	6.4	23.2	28.9	75.0	203.7
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	6.1	23.9	29.3	76.1	162.2
0.0	70°	0.0	0.0	0.0	0.0	0.0	6.4	23.6	31.4	79.7	131.8
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	7.1	21.4	34.7	79.7	116.8
0.0	75°	0.0	0.0	0.0	0.0	0.0	7.5	20.0	38.9	72.5	101.1
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	7.1	19.7	45.4	64.7	83.2
0.0	80°	0.7	1.1	1.1	0.7	0.7	6.1	19.3	46.1	55.0	57.2
0.4	82.5°	2.1	2.9	2.5	1.8	1.8	5.4	17.1	38.6	28.6	24.7
2.1	85°	3.9	4.6	4.6	3.9	3.9	5.0	10.7	13.9	9.6	7.9
3.9	87.5°	5.4	6.1	6.1	5.4	5.4	5.0	4.6	4.3	3.9	3.9
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: SP1-2407-184-11

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-840-U-5WQ

Data in this report applies to families of products including GSS-SB1A-840-U-5WQ

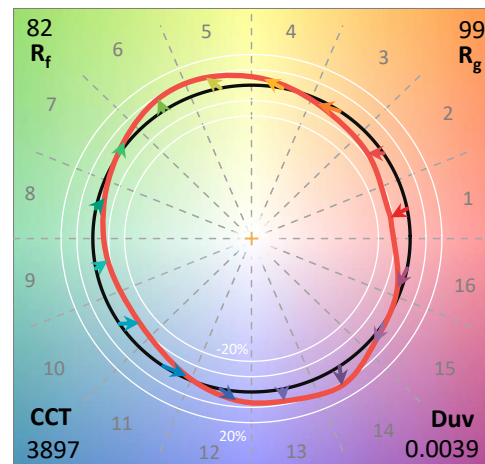
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-11
 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-840-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 4000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3897
 CIE u' : 0.2249
 CIE v' : 0.5084
 Duv: 0.0039
 CIE x: 0.3882
 CIE y: 0.3900
 CIE z: 0.2218
 Peak Wavelength (nm): 445
 Dominant Wavelength (nm): 577
 Purity: 33.54925
 R_f: 81.8
 R_g: 98.6

CRI (Ra): 80.2
 R1: 78.9
 R2: 83.5
 R3: 88.3
 R4: 82.1
 R5: 78.8
 R6: 78.4
 R7: 85.8
 R8: 65.8
 R9: 6.7
 R10: 61.9
 R11: 81.9
 R12: 58.9
 R13: 79.2
 R14: 93.2
 R15: 71.9



Test Conditions

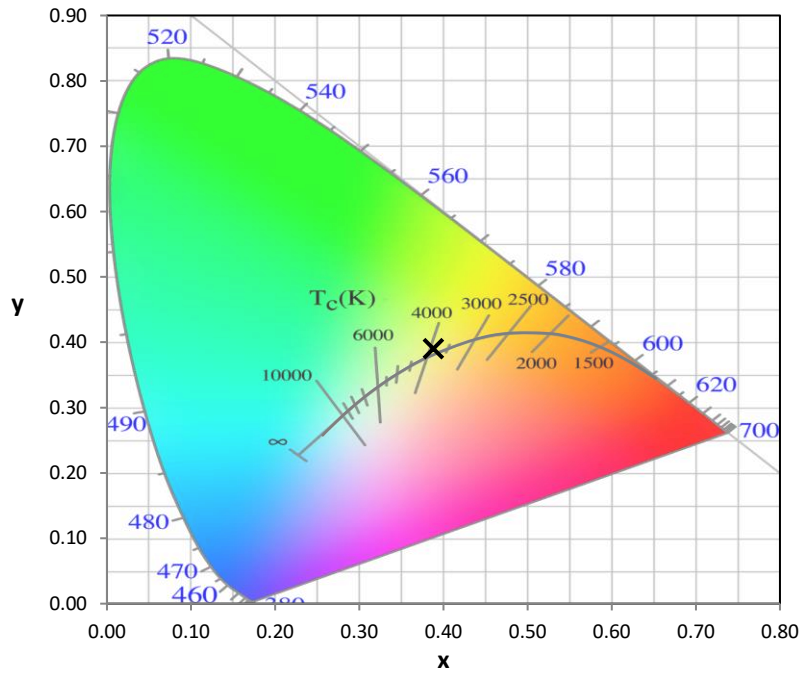
Stabilization Time: 24M
 Operation Time: 1H 24M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-11

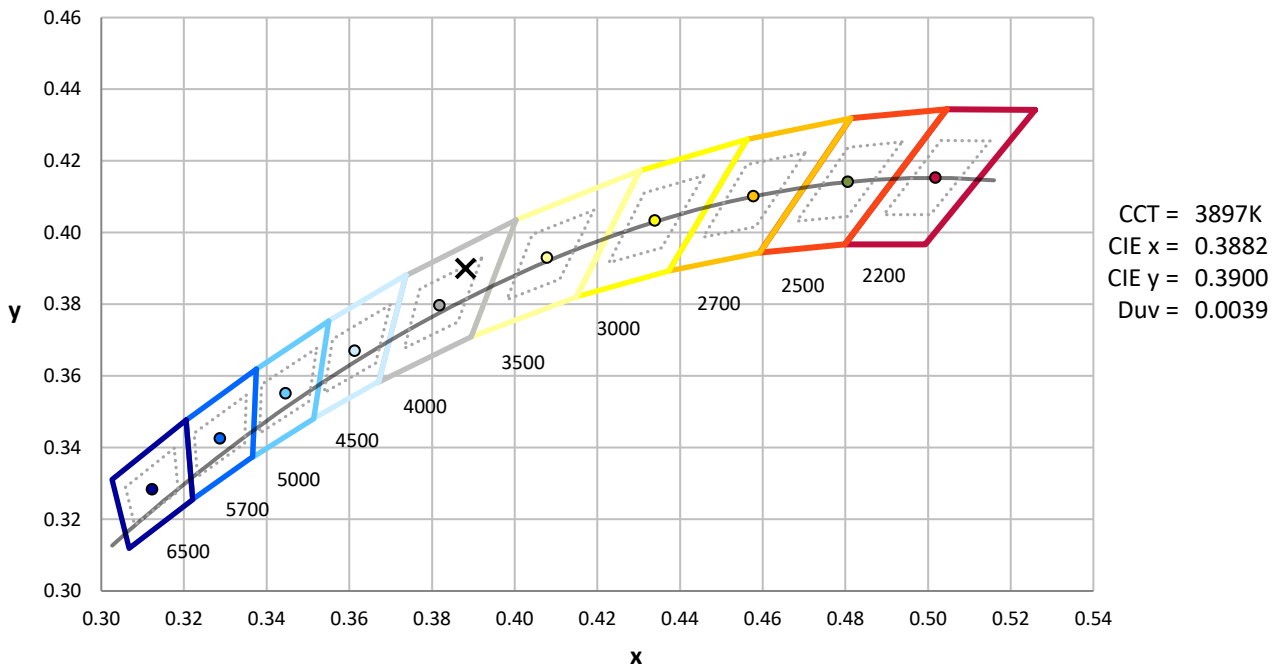
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-11

CIE 1931 Chromaticity Diagram



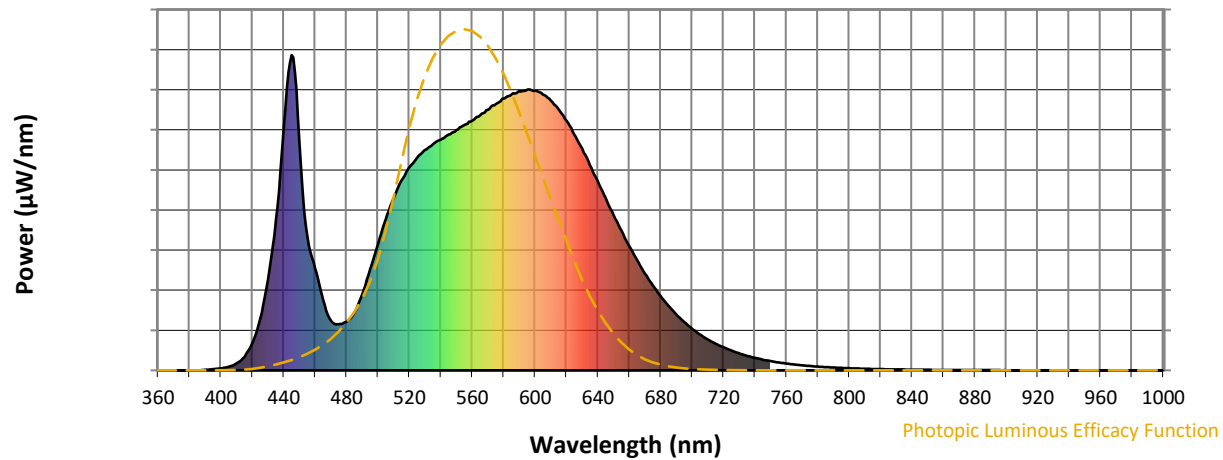
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-11

Photopic Flux vs. Wavelength

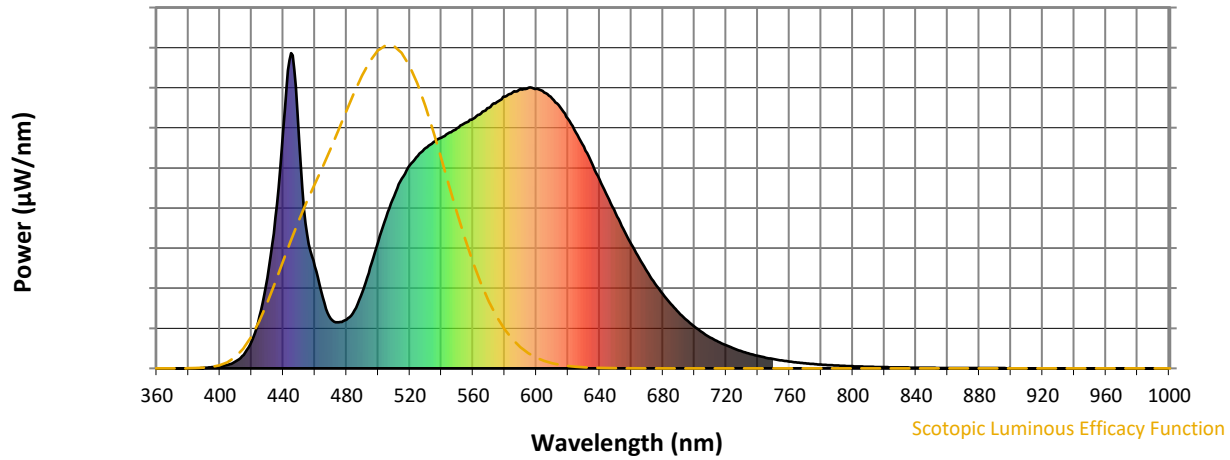


Photopic Lumens: NR

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

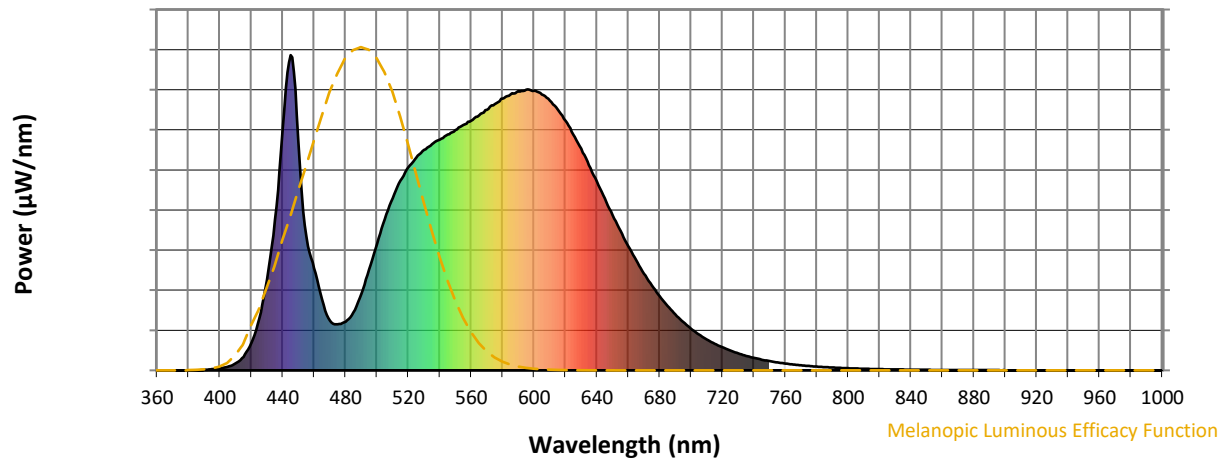
Scotopic Flux vs. Wavelength


Scotopic Lumens: NR
S/P: 1.57

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.06

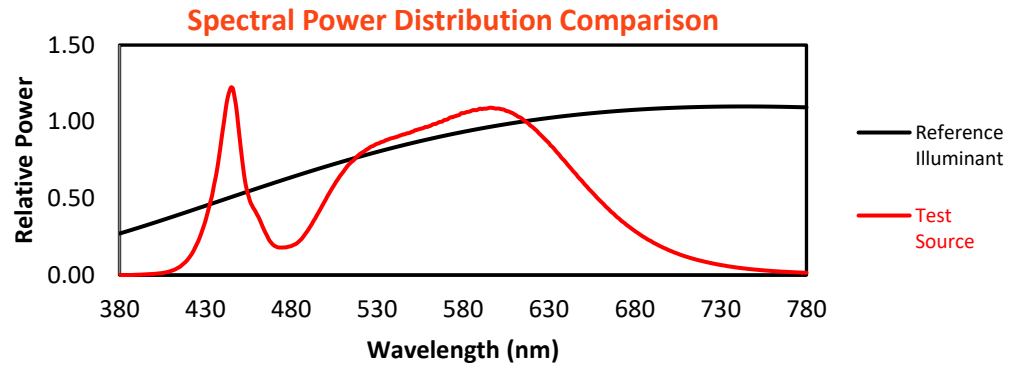
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

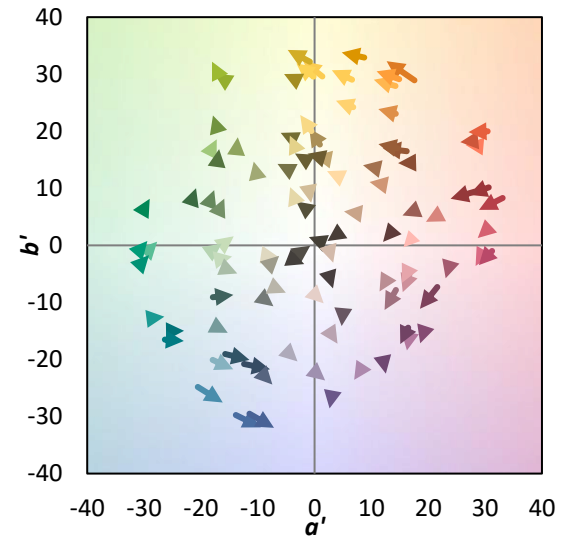
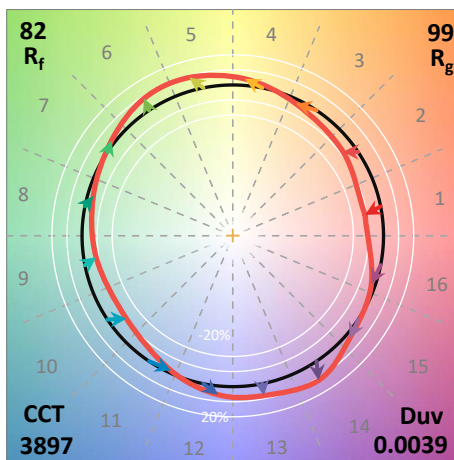
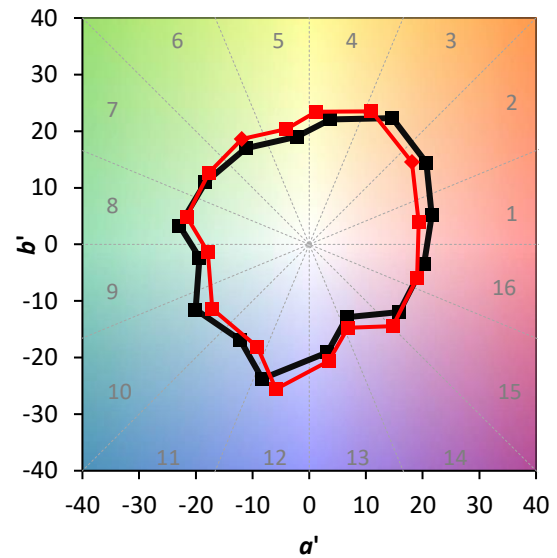
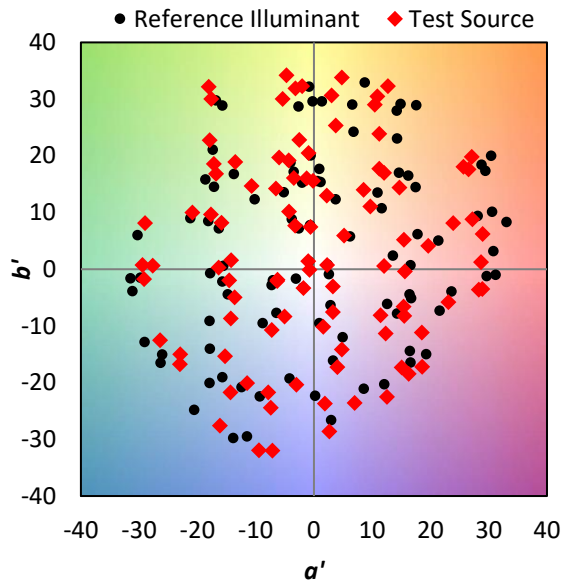
TM-30-18

Summary

$R_f = 81.8$
 $R_g = 98.6$
 $CIE R_a = 80.2$
 $R_9 = 6.7$

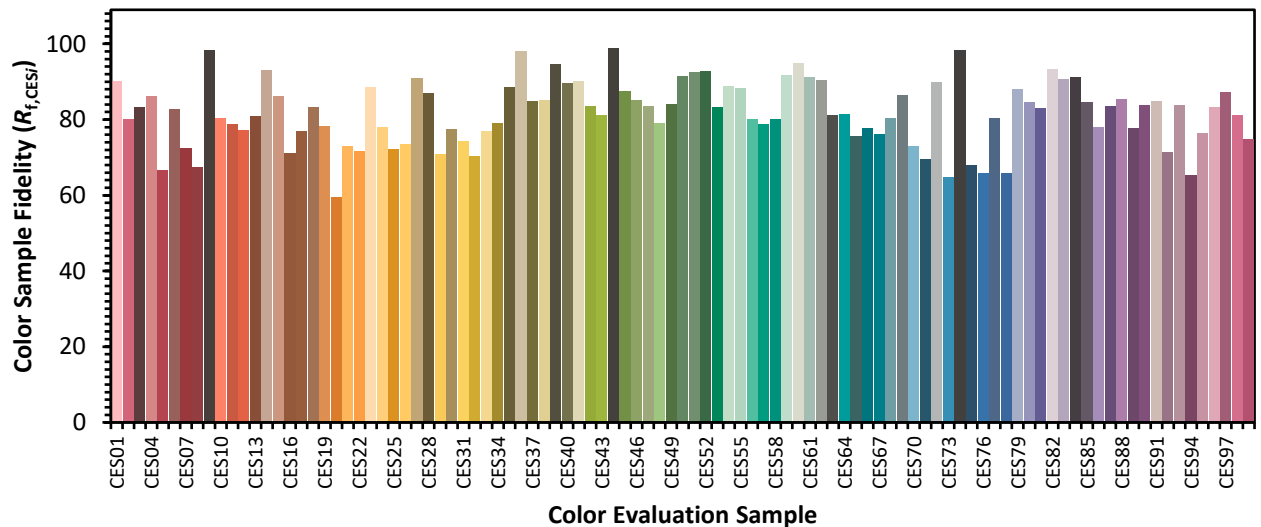


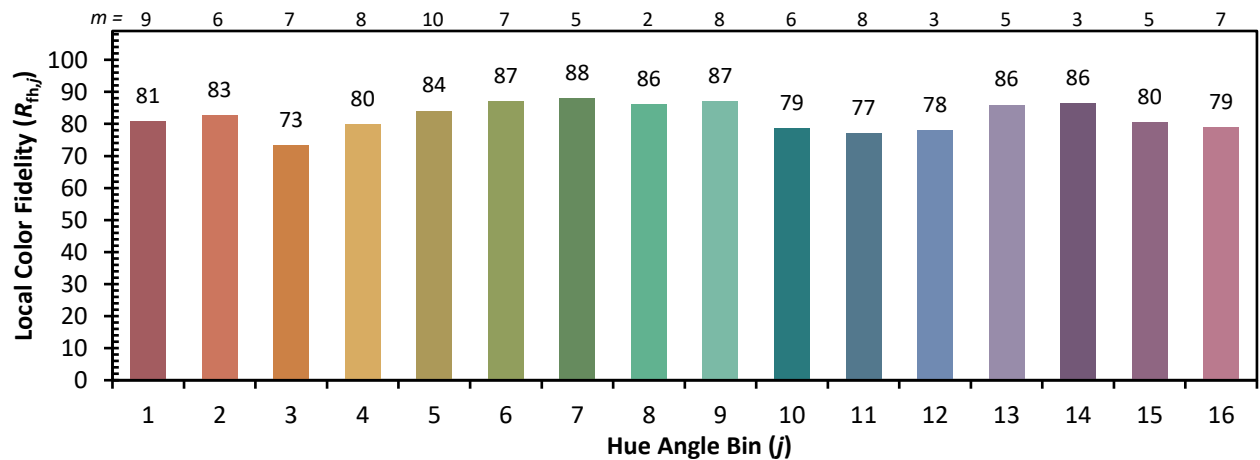
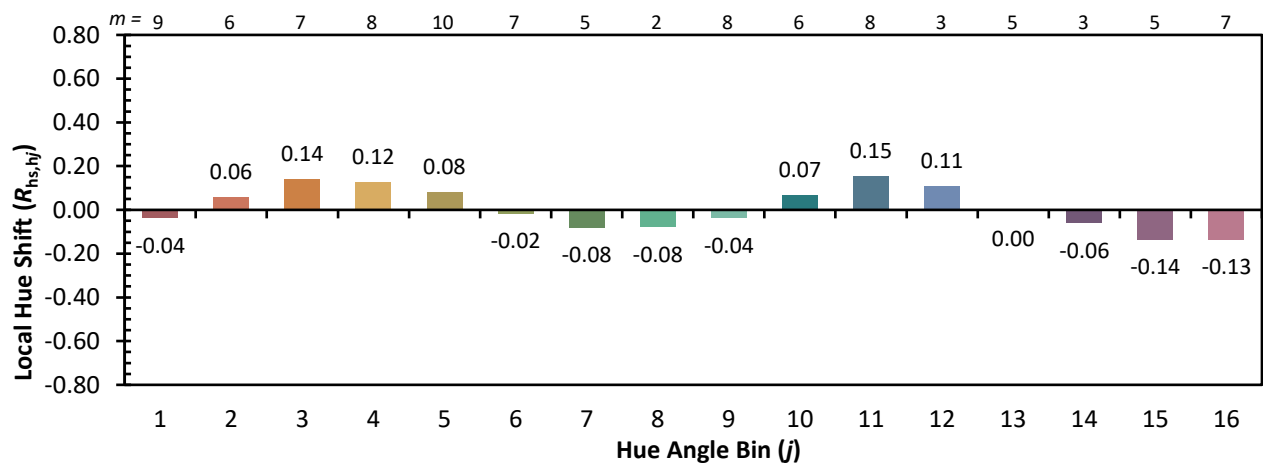
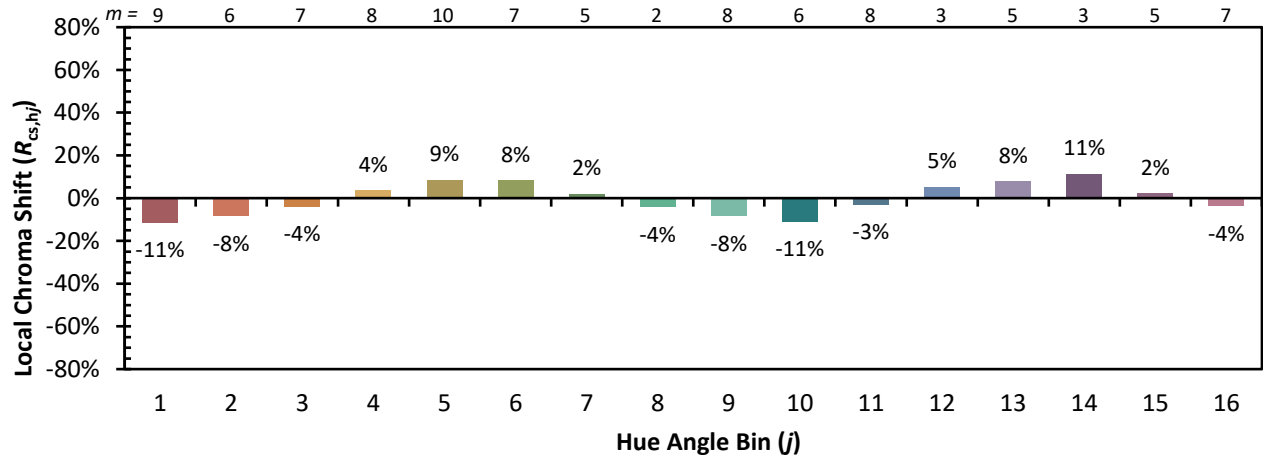
Color Vector Graphics



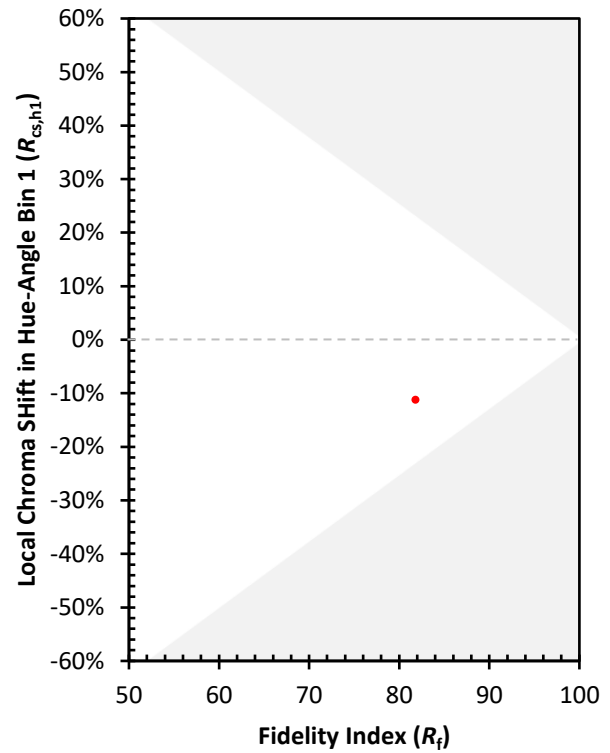
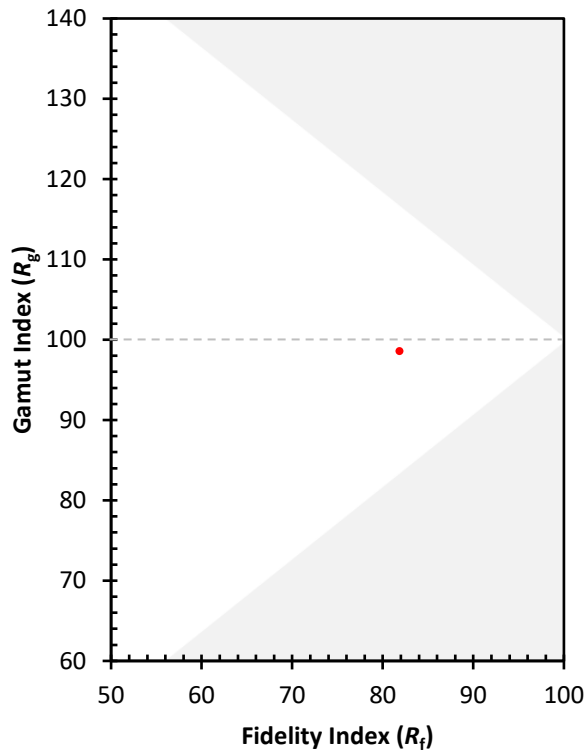
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 73	CES51 = 93	CES76 = 66
CES02 = 61	CES27 = 91	CES52 = 93	CES77 = 80
CES03 = 31	CES28 = 87	CES53 = 83	CES78 = 66
CES04 = 69	CES29 = 71	CES54 = 89	CES79 = 88
CES05 = 48	CES30 = 77	CES55 = 88	CES80 = 85
CES06 = 50	CES31 = 74	CES56 = 80	CES81 = 83
CES07 = 41	CES32 = 70	CES57 = 79	CES82 = 93
CES08 = 40	CES33 = 77	CES58 = 80	CES83 = 91
CES09 = 29	CES34 = 79	CES59 = 92	CES84 = 91
CES10 = 74	CES35 = 88	CES60 = 95	CES85 = 84
CES11 = 57	CES36 = 98	CES61 = 91	CES86 = 78
CES12 = 63	CES37 = 85	CES62 = 90	CES87 = 84
CES13 = 42	CES38 = 85	CES63 = 81	CES88 = 85
CES14 = 74	CES39 = 95	CES64 = 81	CES89 = 78
CES15 = 71	CES40 = 90	CES65 = 76	CES90 = 84
CES16 = 47	CES41 = 90	CES66 = 78	CES91 = 85
CES17 = 49	CES42 = 84	CES67 = 76	CES92 = 71
CES18 = 56	CES43 = 81	CES68 = 80	CES93 = 84
CES19 = 71	CES44 = 99	CES69 = 86	CES94 = 65
CES20 = 65	CES45 = 87	CES70 = 73	CES95 = 77
CES21 = 86	CES46 = 85	CES71 = 70	CES96 = 83
CES22 = 78	CES47 = 84	CES72 = 90	CES97 = 87
CES23 = 91	CES48 = 79	CES73 = 65	CES98 = 81
CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 75
CES25 = 71	CES50 = 91	CES75 = 68	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)