

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: P1049471

Luminaire Tested: **GALN-SA3C-740-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049471
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-740-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 3xLight Square PACKAGE
70CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15468.3 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

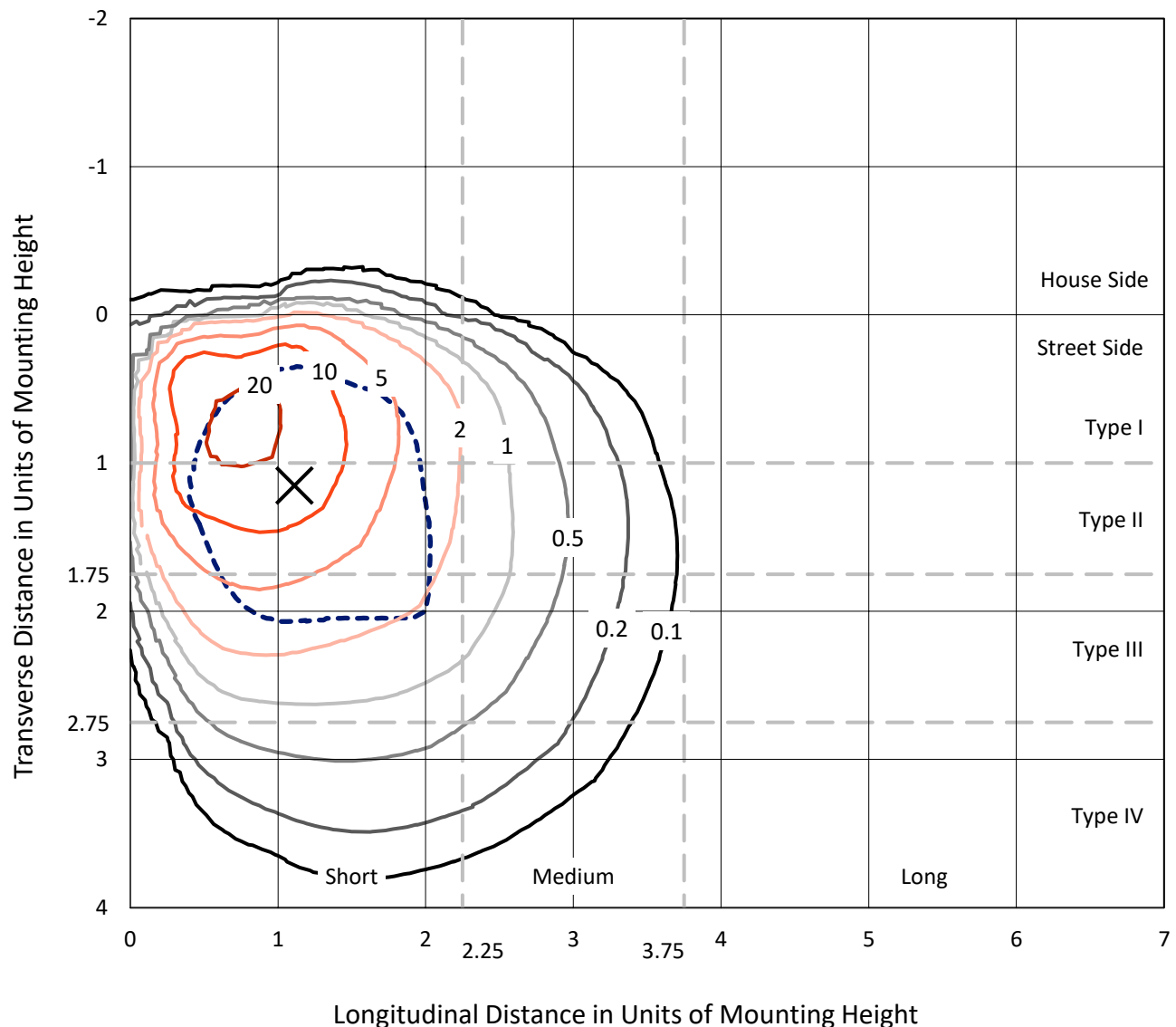
Input Watts (W): 140.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1049471

CATALOG NUMBER: GALN-SA3C-740-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

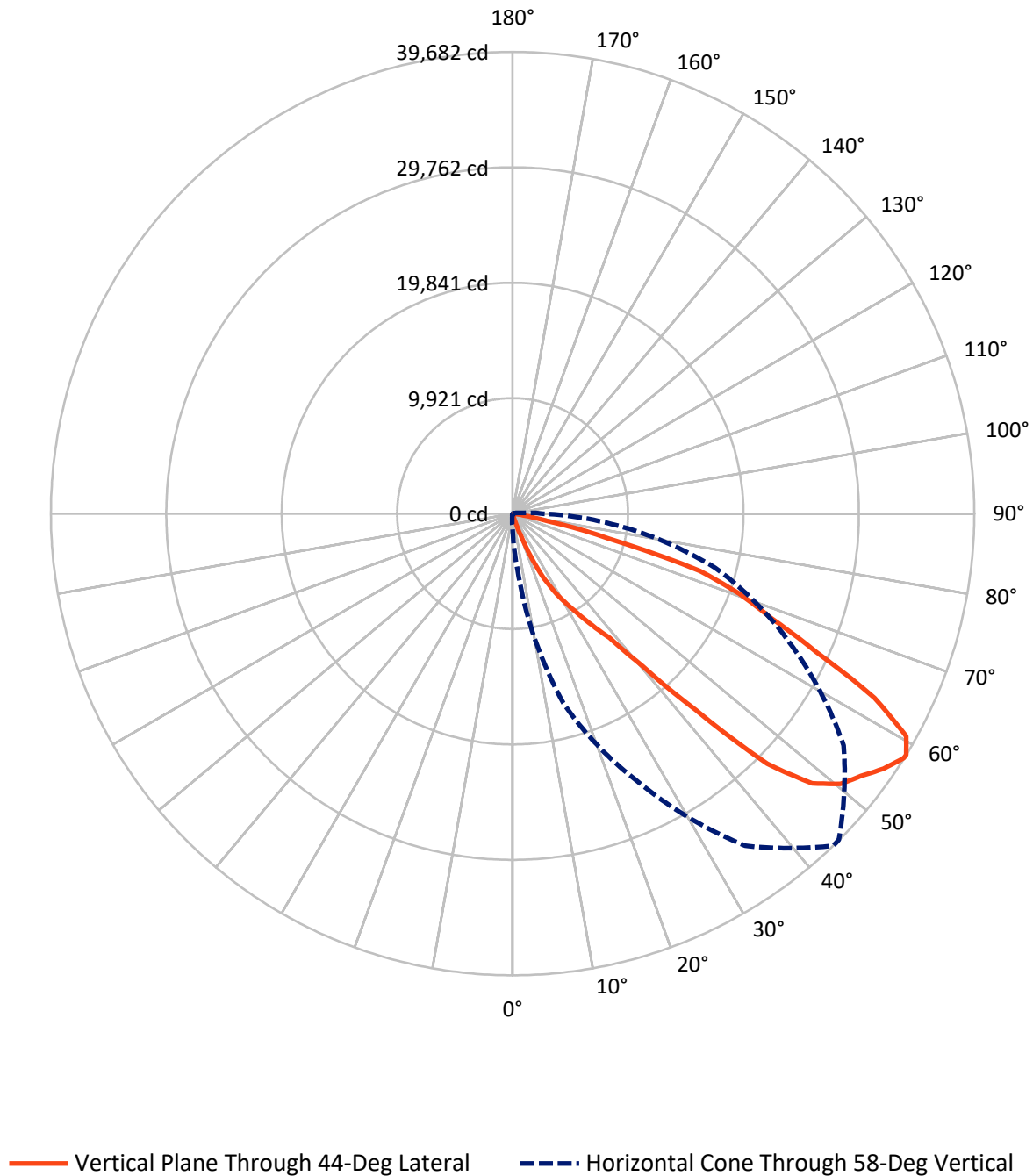
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 26.9 fc
 Type III - Short - N/A

REPORT NUMBER: P1049471
CATALOG NUMBER: GALN-SA3C-740-U-LBC

Luminous Intensity Polar Plot



REPORT NUMBER: P1049471

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	105.6	0.0	105.6
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	15362.7	0.0	15362.7
	% Fixture	99.3	0.0	99.3
Total	Lumens	15468.3	0.0	15468.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.0	0.0
10°-20°	33.9	0.2
20°-30°	366.4	2.4
30°-40°	1083.7	7.0
40°-50°	3230.0	20.9
50°-60°	5125.3	33.1
60°-70°	4275.1	27.6
70°-80°	1318.5	8.5
80°-90°	29.3	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°	15468.3	100.0
0°-180°	15468.3	100.0



REPORT NUMBER: P1049471

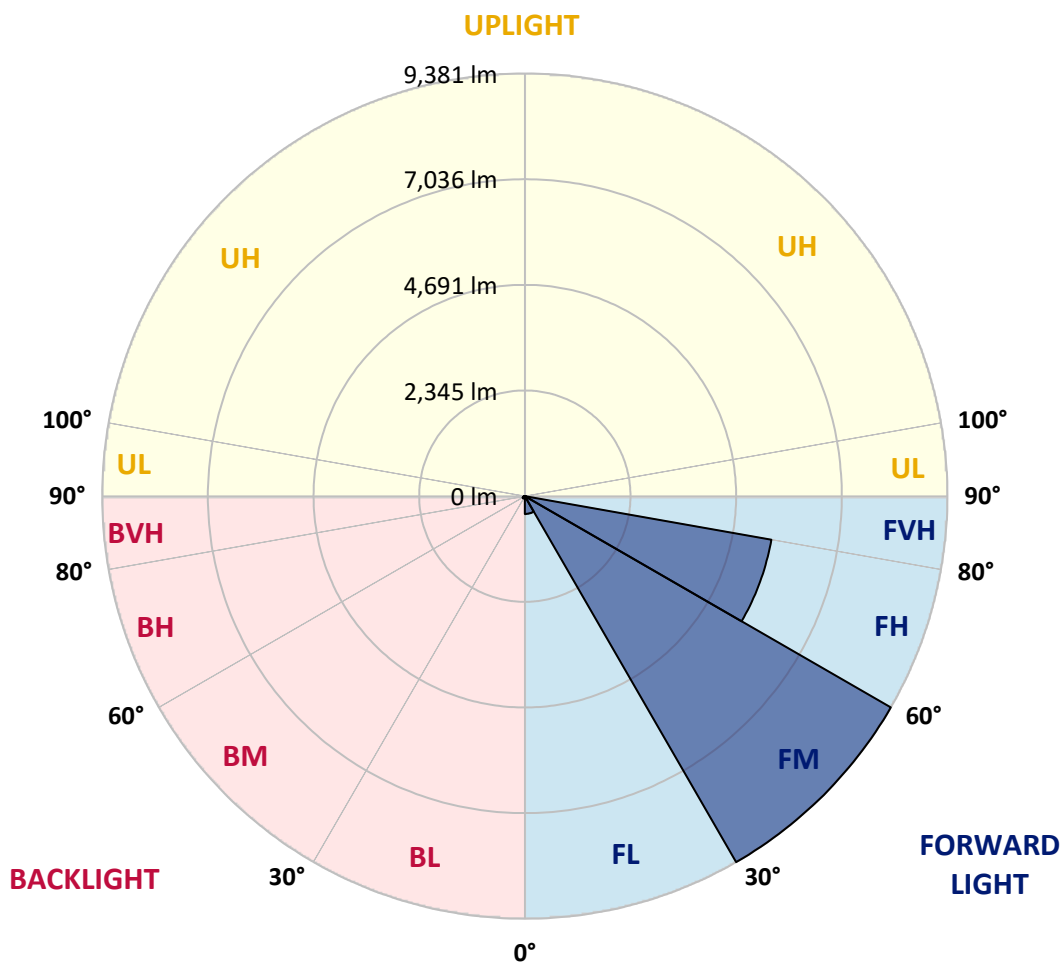
CATALOG NUMBER: GALN-SA3C-740-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	396.1	2.6			
FM	(30°-60°)	9381.2	60.6			
FH	(60°-80°)	5557.5	35.9			G3/7500
FVH	(80°-90°)	27.9	0.2			G1/100
BL	(0°-30°)	10.3	0.1	B0/110		
BM	(30°-60°)	57.8	0.4	B0/220		
BH	(60°-80°)	36.1	0.2	B0/110		G0/110
BVH	(80°-90°)	1.4	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-G3

Type III Short



REPORT NUMBER: P1049471

CATALOG NUMBER: GALN-SA3C-740-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
2.5°	87.6	87.6	84.1	79.5	74.8	70.1	68.9	66.6	65.4	64.3
5°	91.1	91.1	90.0	86.5	81.8	78.3	78.3	74.8	72.4	70.1
7.5°	93.5	94.6	97.0	95.8	93.5	90.0	90.0	87.6	84.1	78.3
10°	97.0	100.5	105.2	107.5	108.7	108.7	107.5	106.3	100.5	92.3
12.5°	100.5	107.5	119.2	130.9	137.9	147.2	146.1	143.7	128.5	111.0
15°	107.5	118.0	142.6	176.4	229.0	261.7	274.6	262.9	212.7	149.6
17.5°	115.7	133.2	206.8	369.2	605.3	717.5	785.2	730.3	483.8	283.9
20°	123.9	162.4	384.4	957.0	1570.5	1937.4	2039.0	1880.1	1207.1	541.0
22.5°	137.9	227.9	779.4	1978.3	3384.0	3934.3	4038.3	3530.0	2279.7	1068.0
25°	167.1	330.7	1343.8	3223.9	5050.3	5979.2	5936.0	5269.9	3698.3	1706.0
27.5°	209.2	481.4	2032.0	4580.5	6646.4	7465.5	7563.7	6739.9	4929.9	2508.8
30°	269.9	667.2	2770.5	5667.2	7925.9	8811.7	8828.0	7976.2	6031.8	3213.4
32.5°	328.3	842.5	3416.7	6717.7	9186.7	10157.8	10230.2	9182.1	6854.4	3947.2
35°	372.8	957.0	4071.1	7640.8	10458.1	11796.0	11791.3	10546.9	7828.9	4602.7
37.5°	376.3	1071.5	4663.5	8585.0	12068.3	13566.3	13714.7	12342.9	9006.8	5413.7
40°	368.1	1200.0	5413.7	10057.3	14969.7	17268.1	17399.0	15669.6	11369.5	6801.8
42.5°	377.4	1423.2	6631.2	12776.4	19787.4	23088.4	23340.8	21522.6	15712.8	9634.3
45°	426.5	1842.7	9182.1	17325.3	26654.6	30679.0	30594.8	27976.2	20766.6	13946.0
47.5°	588.9	2869.8	12963.3	21752.8	31043.5	34627.3	34699.8	31499.2	23715.9	17261.1
50°	905.6	4391.2	16140.5	24093.3	32930.7	36526.1	36458.4	32760.1	24836.5	18893.5
52.5°	1177.8	5491.9	17734.3	24914.8	33172.5	37464.4	37459.8	33091.9	25010.6	19033.7
55°	1245.6	5574.9	17747.2	24959.2	33714.7	38692.5	38846.8	33908.7	25236.1	18421.4
57.5°	1218.7	4935.7	17006.3	25216.2	34679.9	39642.5	39650.7	34699.8	25808.7	18046.3
58°	1195.4	4835.3	16856.8	25362.3	34845.8	39682.3	39662.4	34736.0	26274.9	18032.3
60°	1064.5	4198.4	16273.7	25735.0	34599.3	38866.6	38680.8	33944.9	26205.9	17888.6
62.5°	836.6	3275.3	15700.0	25303.9	31956.1	34918.3	34995.4	30052.6	23890.0	17050.7
65°	666.0	2441.0	14503.4	22195.7	26314.6	28675.0	28962.4	24438.0	19940.4	14438.0
67.5°	530.5	1764.4	12166.4	17671.2	20822.7	23932.0	24141.2	20517.7	15448.7	11062.2
70°	431.2	1193.0	8398.0	12923.6	17174.6	20670.8	20683.6	17044.9	11530.8	7248.2
72.5°	382.1	826.1	4875.0	9425.1	13926.2	16843.9	16503.9	13831.5	8861.9	4293.1
75°	330.7	548.0	2390.8	5761.9	8443.6	8500.8	8630.5	6416.2	4429.8	2041.4
77.5°	272.3	389.1	941.8	1574.0	2532.1	3241.4	3361.8	2547.3	1473.5	502.5
80°	187.0	184.6	253.6	482.6	724.5	907.9	847.2	655.5	385.6	192.8
82.5°	80.6	87.6	114.5	137.9	112.2	108.7	104.0	66.6	51.4	39.7
85°	25.7	23.4	24.5	24.5	19.9	15.2	15.2	7.0	0.0	0.0
87.5°	12.9	10.5	10.5	9.3	5.8	2.3	1.2	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1049471

CATALOG NUMBER: GALN-SA3C-740-U-LBC

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
67.8	0°	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
63.1	2.5°	61.9	61.9	59.6	57.3	56.1	53.8	52.6	51.4	50.2	49.1
67.8	5°	65.4	64.3	60.8	57.3	53.8	50.2	47.9	45.6	43.2	42.1
74.8	7.5°	71.3	68.9	61.9	56.1	51.4	46.7	44.4	40.9	38.6	35.1
83.0	10°	78.3	73.6	64.3	57.3	50.2	44.4	40.9	37.4	33.9	29.2
94.6	12.5°	87.6	79.5	67.8	56.1	47.9	40.9	37.4	32.7	29.2	25.7
109.8	15°	95.8	85.3	68.9	56.1	45.6	37.4	32.7	28.0	24.5	19.9
137.9	17.5°	107.5	90.0	67.8	52.6	42.1	32.7	28.0	24.5	18.7	11.7
204.5	20°	127.4	93.5	65.4	49.1	36.2	26.9	21.0	16.4	8.2	2.3
307.3	22.5°	158.9	102.8	63.1	44.4	31.5	21.0	14.0	5.8	0.0	0.0
467.4	25°	219.7	119.2	63.1	42.1	28.0	15.2	4.7	0.0	0.0	0.0
663.7	27.5°	292.1	141.4	63.1	36.2	22.2	8.2	0.0	0.0	0.0	0.0
904.4	30°	365.7	165.9	63.1	31.5	17.5	1.2	0.0	0.0	0.0	0.0
1113.6	32.5°	435.9	187.0	64.3	26.9	11.7	0.0	0.0	0.0	0.0	0.0
1403.4	35°	507.1	190.5	63.1	23.4	7.0	0.0	0.0	0.0	0.0	0.0
1758.6	37.5°	598.3	183.5	59.6	21.0	3.5	0.0	0.0	0.0	0.0	0.0
2313.6	40°	736.2	187.0	56.1	19.9	1.2	0.0	0.0	0.0	0.0	0.0
3303.3	42.5°	990.9	202.2	51.4	19.9	0.0	0.0	0.0	0.0	0.0	0.0
5261.8	45°	1713.0	271.1	46.7	21.0	0.0	0.0	0.0	0.0	0.0	0.0
7899.1	47.5°	2833.6	487.3	45.6	21.0	0.0	0.0	0.0	0.0	0.0	0.0
9515.1	50°	3616.5	613.5	47.9	22.2	0.0	0.0	0.0	0.0	0.0	0.0
9717.2	52.5°	3610.7	683.6	50.2	23.4	4.7	0.0	0.0	0.0	0.0	0.0
8956.6	55°	3209.9	696.4	53.8	25.7	15.2	0.0	0.0	0.0	0.0	0.0
7696.9	57.5°	2682.9	635.7	61.9	31.5	28.0	0.0	0.0	0.0	0.0	0.0
7499.4	58°	2589.4	607.6	64.3	32.7	30.4	0.0	0.0	0.0	0.0	0.0
6505.0	60°	2122.0	495.4	81.8	40.9	40.9	0.0	0.0	0.0	0.0	0.0
5333.0	62.5°	1465.3	432.3	93.5	52.6	42.1	0.0	0.0	0.0	0.0	0.0
3932.0	65°	1036.5	390.3	101.7	56.1	33.9	0.0	0.0	0.0	0.0	0.0
2793.9	67.5°	774.7	359.9	112.2	57.3	17.5	0.0	0.0	0.0	0.0	0.0
1752.7	70°	593.6	337.7	137.9	60.8	4.7	0.0	0.0	0.0	0.0	0.0
1044.6	72.5°	483.8	312.0	167.1	63.1	0.0	0.0	0.0	0.0	0.0	0.0
626.3	75°	400.8	281.6	161.3	68.9	0.0	0.0	0.0	0.0	0.0	0.0
334.2	77.5°	266.4	218.5	147.2	68.9	0.0	0.0	0.0	0.0	0.0	0.0
119.2	80°	93.5	86.5	114.5	60.8	0.0	0.0	0.0	0.0	0.0	0.0
24.5	82.5°	14.0	11.7	16.4	21.0	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: P1049471

CATALOG NUMBER: GALN-SA3C-740-U-LBC

CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
67.8	0°	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
47.9	2.5°	47.9	47.9	46.7	47.9	47.9	50.2	56.1	64.3	73.6	77.1
40.9	5°	39.7	38.6	37.4	37.4	37.4	40.9	45.6	54.9	65.4	70.1
33.9	7.5°	32.7	31.5	30.4	29.2	29.2	31.5	37.4	47.9	58.4	63.1
28.0	10°	26.9	24.5	23.4	22.2	22.2	24.5	30.4	40.9	52.6	57.3
23.4	12.5°	22.2	18.7	16.4	15.2	14.0	17.5	23.4	32.7	45.6	51.4
17.5	15°	15.2	11.7	8.2	7.0	5.8	9.3	15.2	25.7	38.6	45.6
9.3	17.5°	8.2	3.5	1.2	0.0	0.0	2.3	7.0	18.7	31.5	37.4
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3	23.4	29.2
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	14.0	19.9
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	10.5
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
0.0	30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	9.3
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: P1049471

CATALOG NUMBER: GALN-SA3C-740-U-LBC

CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
67.8	0°	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
80.6	2.5°	83.0	81.8	79.5	77.1	77.1	77.1	80.6	84.1	87.6	87.6
72.4	5°	77.1	77.1	76.0	73.6	73.6	74.8	79.5	85.3	90.0	91.1
66.6	7.5°	71.3	73.6	71.3	70.1	71.3	72.4	77.1	84.1	91.1	93.5
61.9	10°	67.8	68.9	68.9	67.8	67.8	70.1	74.8	84.1	93.5	97.0
56.1	12.5°	63.1	65.4	64.3	64.3	64.3	66.6	72.4	83.0	95.8	100.5
50.2	15°	58.4	61.9	61.9	60.8	60.8	61.9	70.1	81.8	99.3	107.5
43.2	17.5°	53.8	57.3	58.4	56.1	56.1	58.4	66.6	81.8	101.7	115.7
35.1	20°	44.4	50.2	53.8	50.2	50.2	52.6	60.8	77.1	102.8	123.9
25.7	22.5°	35.1	40.9	45.6	44.4	44.4	45.6	56.1	73.6	104.0	137.9
15.2	25°	25.7	31.5	35.1	37.4	37.4	40.9	51.4	71.3	108.7	167.1
7.0	27.5°	15.2	22.2	26.9	29.2	30.4	35.1	47.9	68.9	116.8	209.2
0.0	30°	7.0	12.9	18.7	23.4	23.4	31.5	44.4	66.6	127.4	269.9
0.0	32.5°	0.0	5.8	9.3	16.4	17.5	25.7	40.9	64.3	142.6	328.3
0.0	35°	0.0	0.0	4.7	12.9	12.9	21.0	37.4	61.9	165.9	372.8
0.0	37.5°	0.0	0.0	0.0	9.3	10.5	18.7	36.2	60.8	170.6	376.3
0.0	40°	0.0	0.0	0.0	7.0	8.2	17.5	36.2	61.9	154.2	368.1
0.0	42.5°	0.0	0.0	0.0	4.7	5.8	17.5	36.2	64.3	139.1	377.4
0.0	45°	0.0	0.0	0.0	3.5	4.7	18.7	35.1	63.1	130.9	426.5
0.0	47.5°	0.0	0.0	0.0	4.7	7.0	18.7	33.9	61.9	132.0	588.9
0.0	50°	0.0	0.0	0.0	5.8	8.2	18.7	35.1	59.6	144.9	905.6
0.0	52.5°	0.0	0.0	0.0	4.7	7.0	21.0	38.6	58.4	157.7	1177.8
0.0	55°	0.0	0.0	0.0	1.2	3.5	26.9	42.1	58.4	177.6	1245.6
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	30.4	47.9	61.9	210.3	1218.7
0.0	58°	0.0	0.0	0.0	0.0	0.0	30.4	49.1	61.9	212.7	1195.4
0.0	60°	0.0	0.0	0.0	0.0	0.0	30.4	53.8	68.9	229.0	1064.5
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	25.7	64.3	86.5	238.4	836.6
0.0	65°	0.0	0.0	0.0	0.0	0.0	21.0	76.0	94.6	245.4	666.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	19.9	78.3	95.8	248.9	530.5
0.0	70°	0.0	0.0	0.0	0.0	0.0	21.0	77.1	102.8	260.6	431.2
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	23.4	70.1	113.3	260.6	382.1
0.0	75°	0.0	0.0	0.0	0.0	0.0	24.5	65.4	127.4	237.2	330.7
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	23.4	64.3	148.4	211.5	272.3
0.0	80°	2.3	3.5	3.5	2.3	2.3	19.9	63.1	150.7	179.9	187.0
1.2	82.5°	7.0	9.3	8.2	5.8	5.8	17.5	56.1	126.2	93.5	80.6
7.0	85°	12.9	15.2	15.2	12.9	12.9	16.4	35.1	45.6	31.5	25.7
12.9	87.5°	17.5	19.9	19.9	17.5	17.5	16.4	15.2	14.0	12.9	12.9
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: SP1-2407-184-1

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-740-U-5WQ

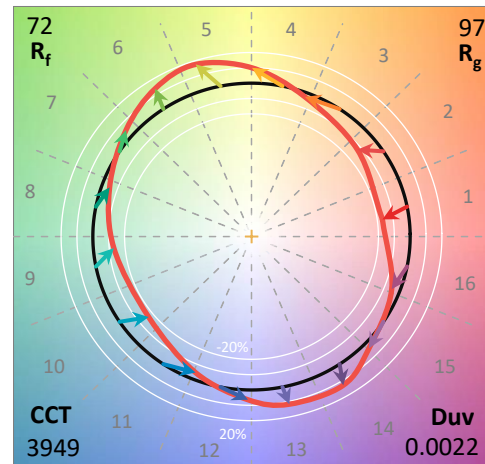
Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-1
 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-740-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3949	CRI (Ra):	70.7		
CIE u':	0.2248	R1:	68.0	R9:	-36.7
CIE v':	0.5053	R2:	76.0	R10:	45.1
Duv:	0.0022	R3:	84.3	R11:	70.7
CIE x:	0.3844	R4:	72.0	R12:	47.1
CIE y:	0.3840	R5:	68.6	R13:	68.5
CIE z:	0.2316	R6:	68.3	R14:	91.1
Peak Wavelength (nm):	440	R7:	77.9	R15:	58.7
Dominant Wavelength (nm):	578	R8:	50.3		
Purity:	30.60026				
Rf:	71.8				
Rg:	96.5				



Test Conditions

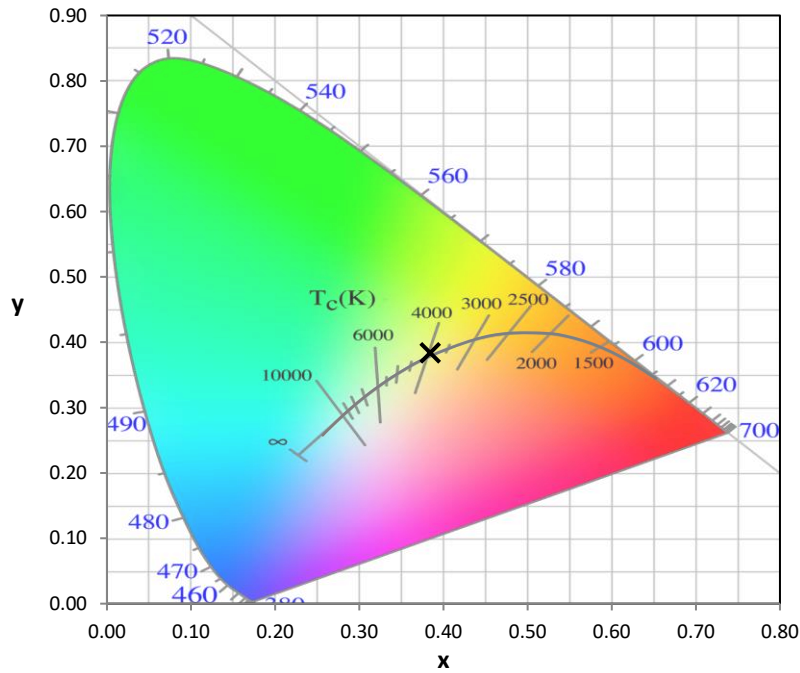
Stabilization Time: 34M
 Operation Time: 1H 34M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-1

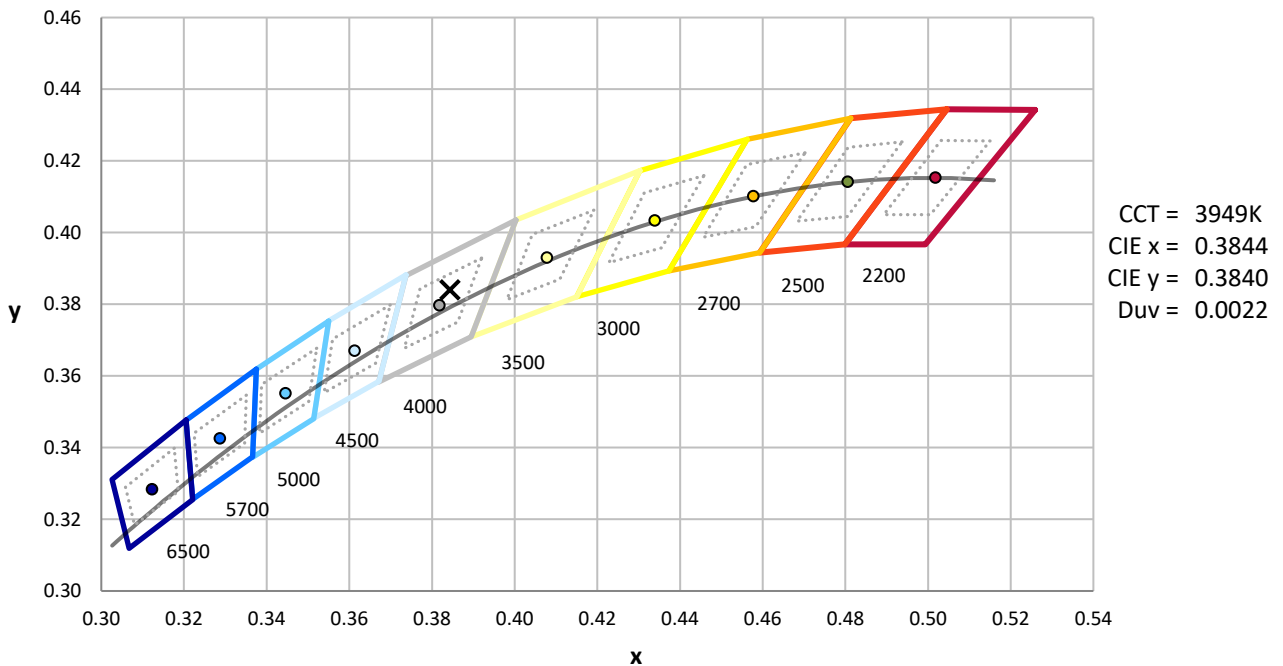
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-1

CIE 1931 Chromaticity Diagram



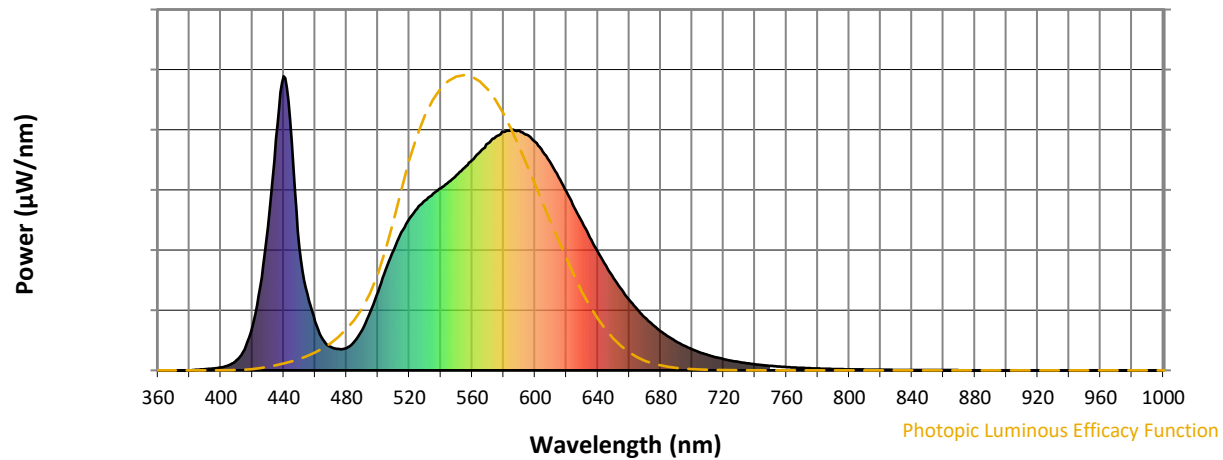
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

Photopic Flux vs. Wavelength

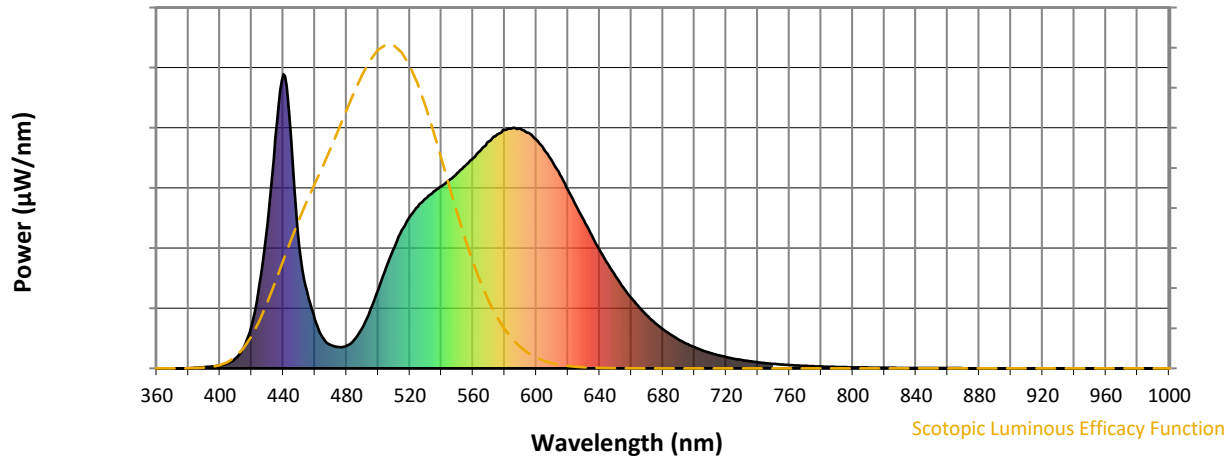


Photopic Lumens: NR

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Scotopic Flux vs. Wavelength



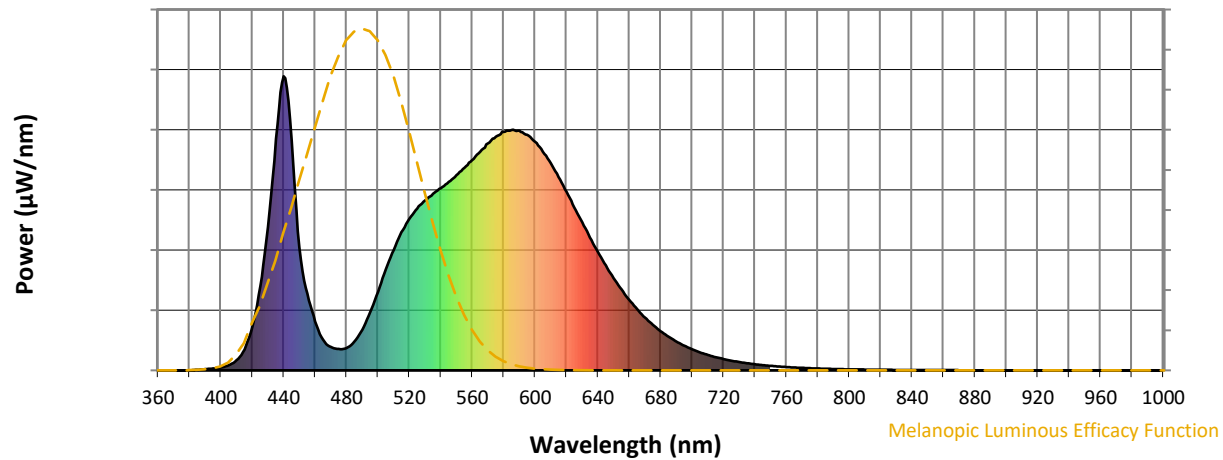
Scotopic Lumens: NR

S/P: 1.47

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.78

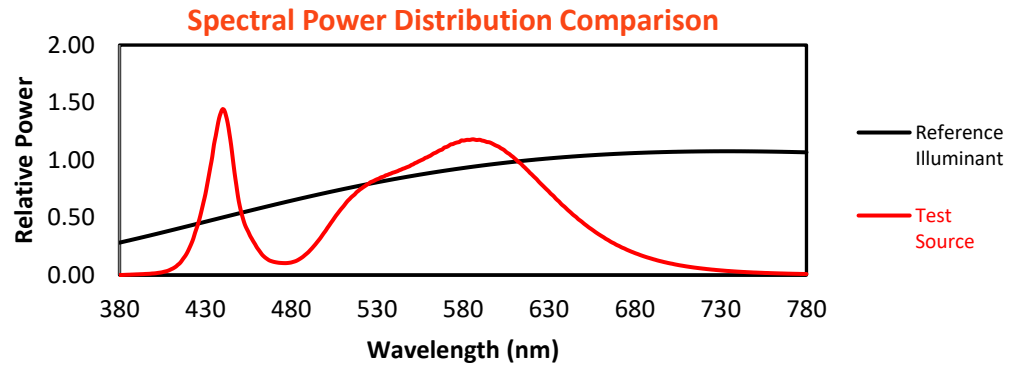
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

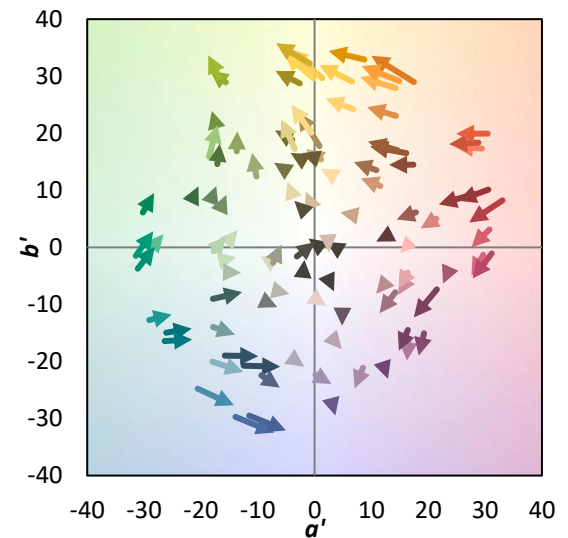
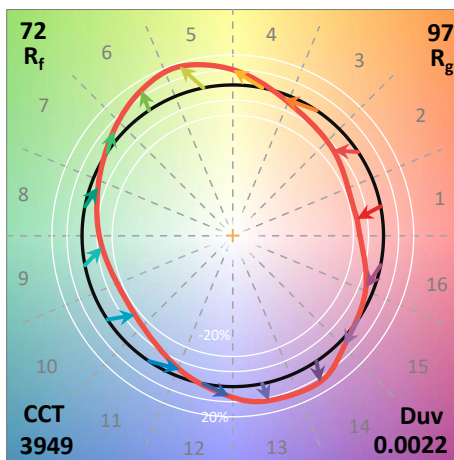
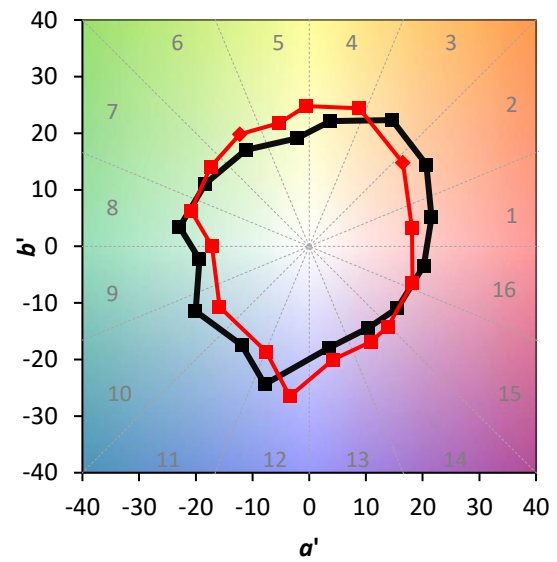
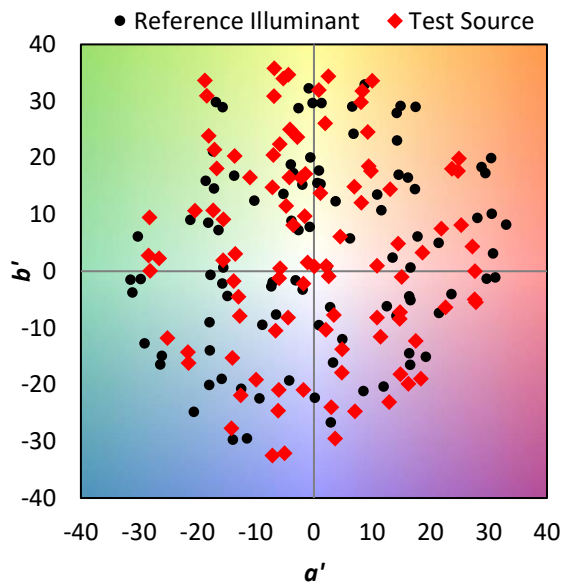
TM-30-18

Summary

$R_f = 71.8$
 $R_g = 96.5$
 $CIE R_a = 70.7$
 $R_g = -36.7$

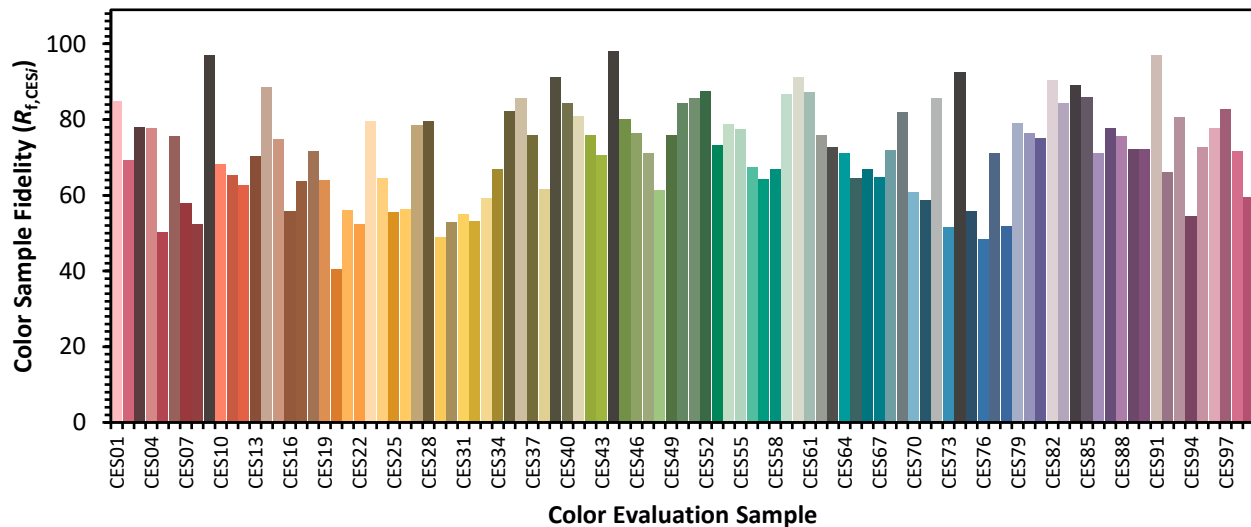


Color Vector Graphics

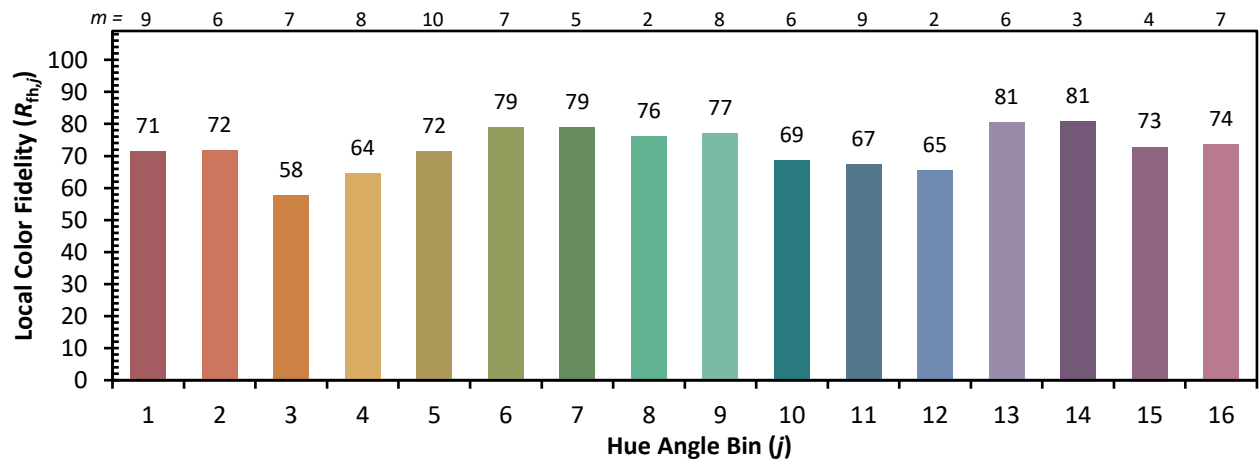
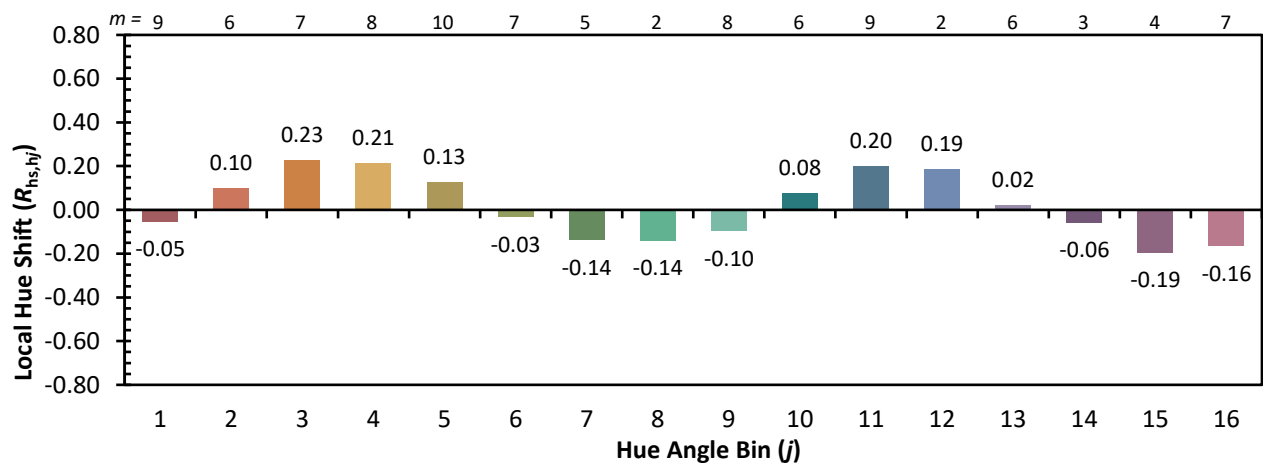
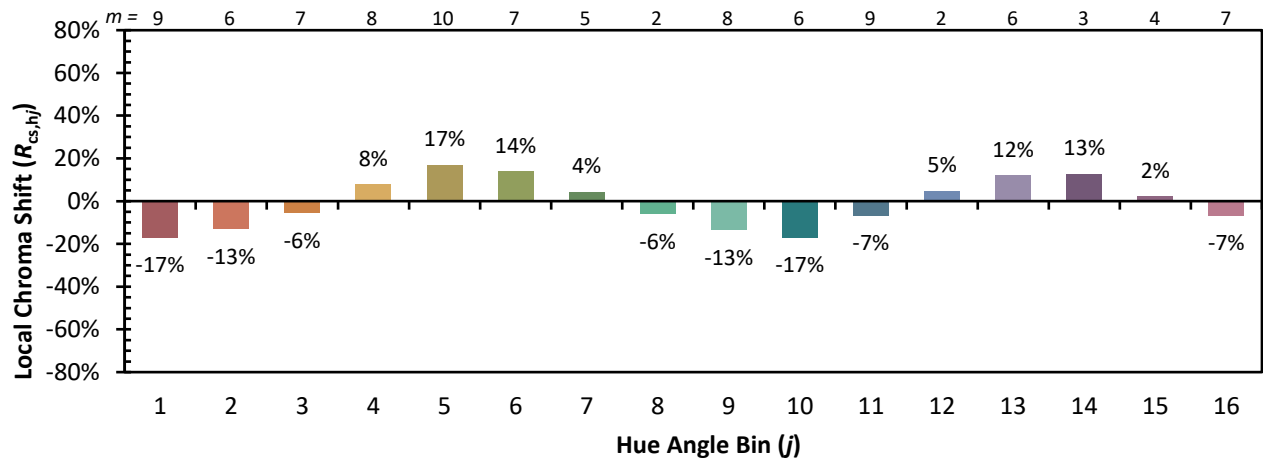


Individual Sample Fidelity Index ($R_{f,i}$)

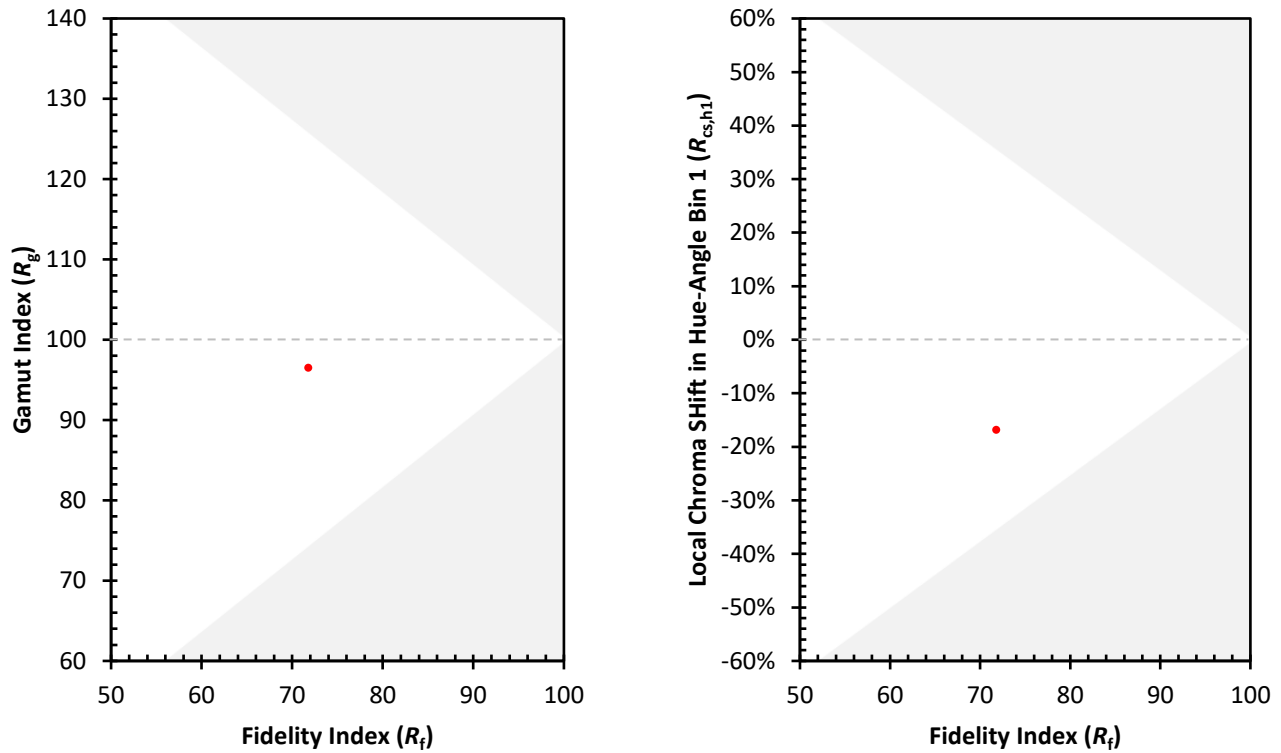
CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82 = 90
CES08 = 39	CES33 = 59	CES58 = 67	CES83 = 84
CES09 = 29	CES34 = 67	CES59 = 87	CES84 = 89
CES10 = 74	CES35 = 82	CES60 = 91	CES85 = 86
CES11 = 57	CES36 = 86	CES61 = 87	CES86 = 71
CES12 = 63	CES37 = 76	CES62 = 76	CES87 = 78
CES13 = 42	CES38 = 62	CES63 = 73	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 71	CES89 = 72
CES15 = 71	CES40 = 84	CES65 = 64	CES90 = 72
CES16 = 46	CES41 = 81	CES66 = 67	CES91 = 97
CES17 = 49	CES42 = 76	CES67 = 65	CES92 = 66
CES18 = 56	CES43 = 71	CES68 = 72	CES93 = 81
CES19 = 72	CES44 = 98	CES69 = 82	CES94 = 55
CES20 = 65	CES45 = 80	CES70 = 61	CES95 = 73
CES21 = 86	CES46 = 76	CES71 = 59	CES96 = 78
CES22 = 78	CES47 = 71	CES72 = 86	CES97 = 83
CES23 = 92	CES48 = 61	CES73 = 52	CES98 = 72
CES24 = 91	CES49 = 76	CES74 = 93	CES99 = 60
CES25 = 72	CES50 = 84	CES75 = 56	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)