

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: P1050025

Luminaire Tested: **GALN-SA7A-940-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1050025
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-940-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 7xLight Square PACKAGE
90CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (98) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16611.8 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

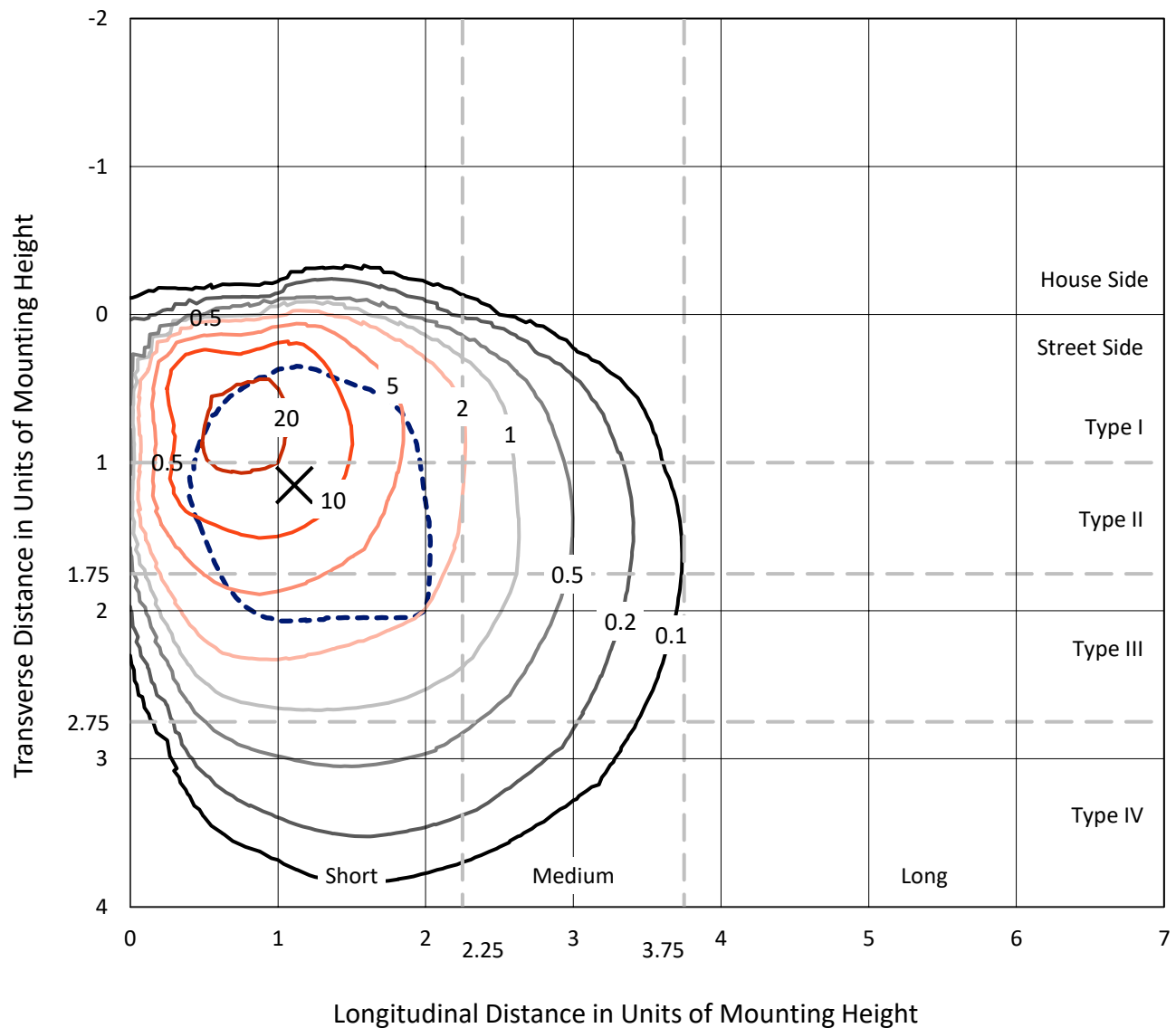
Input Watts (W): 193.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1050025

CATALOG NUMBER: GALN-SA7A-940-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

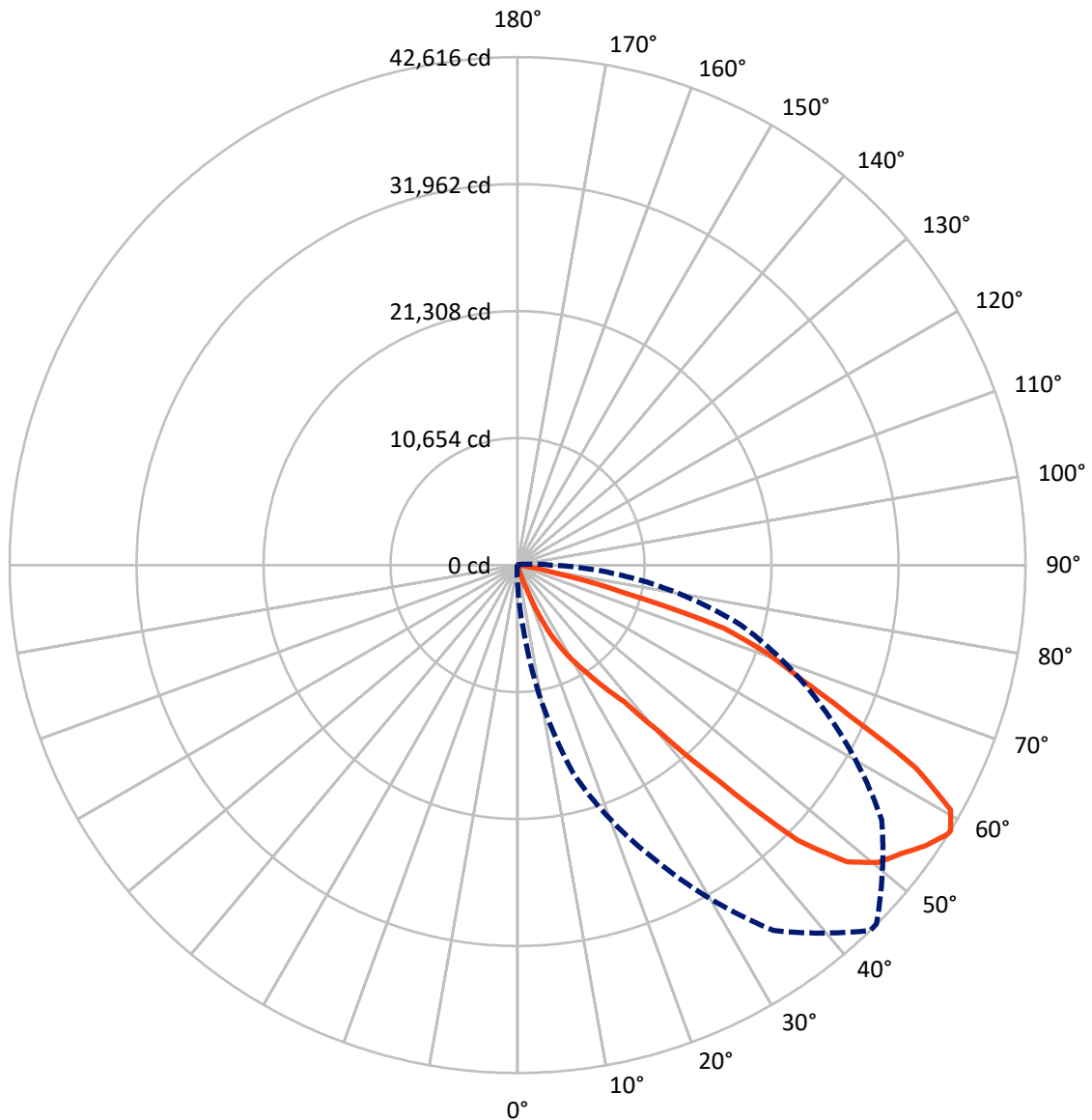
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 28.9 fc
 Type III - Short - N/A

REPORT NUMBER: P1050025
CATALOG NUMBER: GALN-SA7A-940-U-LBC

Luminous Intensity Polar Plot



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

REPORT NUMBER: P1050025

CATALOG NUMBER: GALN-SA7A-940-U-LBC

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	113.4	0.0	113.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	16498.3	0.0	16498.3
	% Fixture	99.3	0.0	99.3
Total	Lumens	16611.8	0.0	16611.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.5	0.0
10°-20°	36.4	0.2
20°-30°	393.5	2.4
30°-40°	1163.8	7.0
40°-50°	3468.8	20.9
50°-60°	5504.1	33.1
60°-70°	4591.1	27.6
70°-80°	1416.0	8.5
80°-90°	31.5	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°	16611.8	100.0
0°-180°	16611.8	100.0



REPORT NUMBER: P1050025

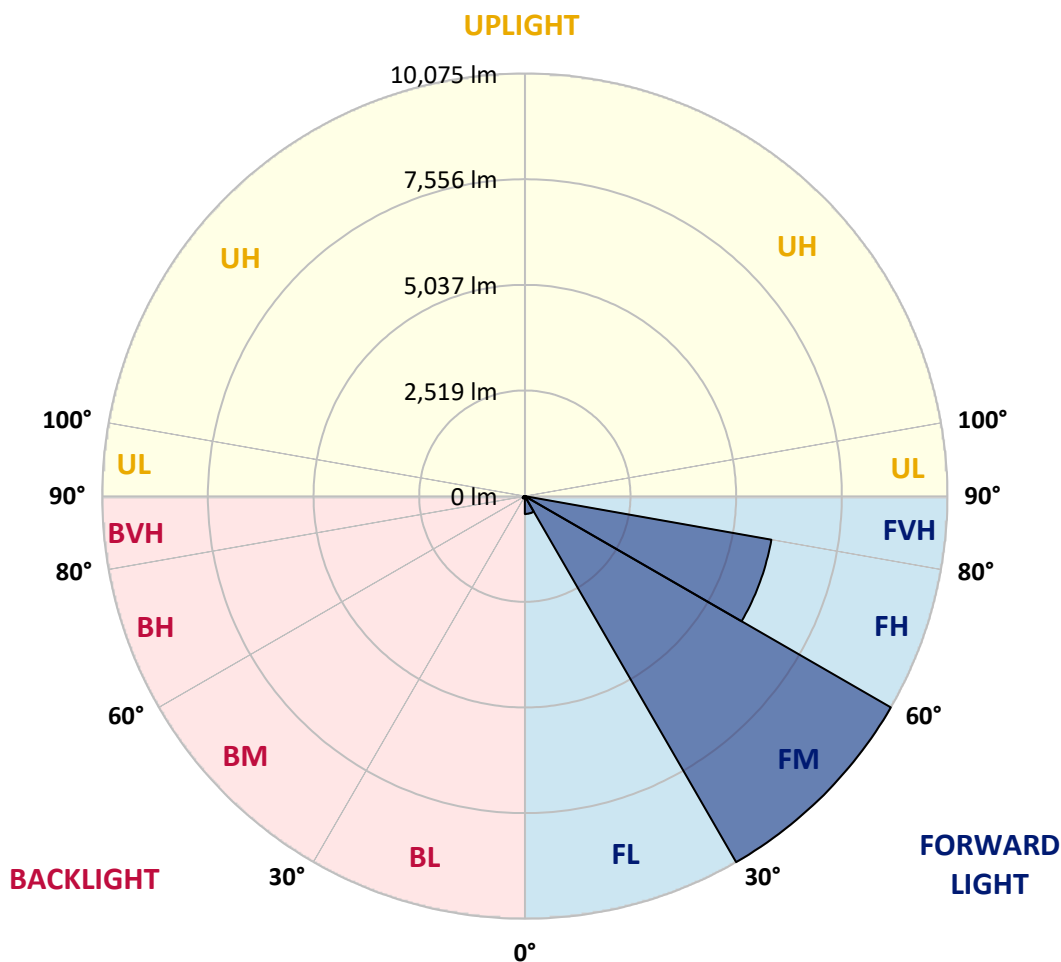
CATALOG NUMBER: GALN-SA7A-940-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	425.4	2.6			
FM	(30°-60°)	10074.7	60.6			
FH	(60°-80°)	5968.4	35.9			G3/7500
FVH	(80°-90°)	29.9	0.2			G1/100
BL	(0°-30°)	11.1	0.1	B0/110		
BM	(30°-60°)	62.1	0.4	B0/220		
BH	(60°-80°)	38.7	0.2	B0/110		G0/110
BVH	(80°-90°)	1.5	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: P1050025

CATALOG NUMBER: GALN-SA7A-940-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
2.5°	94.1	94.1	90.4	85.3	80.3	75.3	74.0	71.5	70.3	69.0
5°	97.9	97.9	96.6	92.9	87.8	84.1	84.1	80.3	77.8	75.3
7.5°	100.4	101.6	104.2	102.9	100.4	96.6	96.6	94.1	90.4	84.1
10°	104.2	107.9	112.9	115.4	116.7	116.7	115.4	114.2	107.9	99.1
12.5°	107.9	115.4	128.0	140.5	148.1	158.1	156.9	154.4	138.0	119.2
15°	115.4	126.7	153.1	189.5	246.0	281.1	294.9	282.3	228.4	160.6
17.5°	124.2	143.1	222.1	396.5	650.0	770.5	843.3	784.3	519.5	304.9
20°	133.0	174.4	412.9	1027.7	1686.6	2080.6	2189.8	2019.1	1296.3	581.0
22.5°	148.1	244.7	837.0	2124.5	3634.1	4225.2	4336.9	3791.0	2448.3	1147.0
25°	179.4	355.1	1443.1	3462.2	5423.6	6421.2	6374.8	5659.5	3971.7	1832.1
27.5°	224.6	517.0	2182.2	4919.1	7137.7	8017.4	8122.8	7238.1	5294.3	2694.2
30°	289.9	716.5	2975.3	6086.2	8511.8	9463.0	9480.6	8565.8	6477.7	3450.9
32.5°	352.6	904.8	3669.3	7214.3	9865.9	10908.7	10986.5	9860.8	7361.1	4239.0
35°	400.3	1027.7	4372.0	8205.6	11231.2	12668.0	12663.0	11326.5	8407.7	4943.0
37.5°	404.1	1150.7	5008.2	9219.6	12960.4	14569.1	14728.5	13255.3	9672.6	5813.9
40°	395.3	1288.8	5813.9	10800.7	16076.2	18544.6	18685.1	16827.9	12210.0	7304.6
42.5°	405.3	1528.4	7121.4	13720.8	21250.1	24795.1	25066.2	23113.6	16874.3	10346.5
45°	458.0	1978.9	9860.8	18606.1	28625.0	32946.8	32856.5	30044.3	22301.7	14977.0
47.5°	632.5	3082.0	13921.6	23360.8	33338.4	37187.1	37264.9	33827.8	25469.0	18537.1
50°	972.5	4715.8	17333.6	25874.3	35365.0	39226.2	39153.5	35181.8	26672.4	20290.1
52.5°	1264.9	5897.9	19045.3	26756.5	35624.7	40233.9	40228.9	35538.2	26859.4	20440.7
55°	1337.7	5987.0	19059.1	26804.2	36207.0	41552.8	41718.4	36415.3	27101.6	19783.2
57.5°	1308.8	5300.6	18263.5	27080.3	37243.5	42573.0	42581.8	37264.9	27716.5	19380.3
58°	1283.7	5192.7	18102.9	27237.1	37421.7	42615.7	42594.3	37303.8	28217.2	19365.3
60°	1143.2	4508.8	17476.7	27637.4	37156.9	41739.8	41540.2	36454.2	28143.2	19210.9
62.5°	898.5	3517.4	16860.5	27174.4	34318.4	37499.5	37582.4	32274.2	25656.0	18311.2
65°	715.3	2621.4	15575.6	23836.4	28259.9	30794.7	31103.4	26244.5	21414.5	15505.3
67.5°	569.7	1894.9	13065.8	18977.5	22361.9	25701.2	25925.8	22034.4	16590.7	11879.9
70°	463.1	1281.2	9018.8	13879.0	18444.2	22198.8	22212.6	18304.9	12383.1	7784.0
72.5°	410.3	887.2	5235.4	10121.8	14955.6	18089.1	17723.9	14854.0	9517.0	4610.4
75°	355.1	588.5	2567.5	6187.8	9067.8	9129.2	9268.5	6890.5	4757.2	2192.3
77.5°	292.4	417.9	1011.4	1690.3	2719.3	3481.0	3610.3	2735.6	1582.4	539.6
80°	200.8	198.3	272.3	518.3	778.0	975.0	909.8	704.0	414.1	207.1
82.5°	86.6	94.1	123.0	148.1	120.5	116.7	111.7	71.5	55.2	42.7
85°	27.6	25.1	26.4	26.4	21.3	16.3	16.3	7.5	0.0	0.0
87.5°	13.8	11.3	11.3	10.0	6.3	2.5	1.3	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: P1050025

CATALOG NUMBER: GALN-SA7A-940-U-LBC

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
72.8	0°	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
67.8	2.5°	66.5	66.5	64.0	61.5	60.2	57.7	56.5	55.2	54.0	52.7
72.8	5°	70.3	69.0	65.3	61.5	57.7	54.0	51.5	48.9	46.4	45.2
80.3	7.5°	76.5	74.0	66.5	60.2	55.2	50.2	47.7	43.9	41.4	37.6
89.1	10°	84.1	79.1	69.0	61.5	54.0	47.7	43.9	40.2	36.4	31.4
101.6	12.5°	94.1	85.3	72.8	60.2	51.5	43.9	40.2	35.1	31.4	27.6
118.0	15°	102.9	91.6	74.0	60.2	48.9	40.2	35.1	30.1	26.4	21.3
148.1	17.5°	115.4	96.6	72.8	56.5	45.2	35.1	30.1	26.4	20.1	12.5
219.6	20°	136.8	100.4	70.3	52.7	38.9	28.9	22.6	17.6	8.8	2.5
330.0	22.5°	170.7	110.4	67.8	47.7	33.9	22.6	15.1	6.3	0.0	0.0
502.0	25°	235.9	128.0	67.8	45.2	30.1	16.3	5.0	0.0	0.0	0.0
712.8	27.5°	313.7	151.8	67.8	38.9	23.8	8.8	0.0	0.0	0.0	0.0
971.3	30°	392.8	178.2	67.8	33.9	18.8	1.3	0.0	0.0	0.0	0.0
1195.9	32.5°	468.1	200.8	69.0	28.9	12.5	0.0	0.0	0.0	0.0	0.0
1507.1	35°	544.6	204.5	67.8	25.1	7.5	0.0	0.0	0.0	0.0	0.0
1888.6	37.5°	642.5	197.0	64.0	22.6	3.8	0.0	0.0	0.0	0.0	0.0
2484.7	40°	790.6	200.8	60.2	21.3	1.3	0.0	0.0	0.0	0.0	0.0
3547.5	42.5°	1064.1	217.1	55.2	21.3	0.0	0.0	0.0	0.0	0.0	0.0
5650.7	45°	1839.7	291.1	50.2	22.6	0.0	0.0	0.0	0.0	0.0	0.0
8483.0	47.5°	3043.1	523.3	48.9	22.6	0.0	0.0	0.0	0.0	0.0	0.0
10218.5	50°	3883.8	658.8	51.5	23.8	0.0	0.0	0.0	0.0	0.0	0.0
10435.6	52.5°	3877.6	734.1	54.0	25.1	5.0	0.0	0.0	0.0	0.0	0.0
9618.6	55°	3447.2	747.9	57.7	27.6	16.3	0.0	0.0	0.0	0.0	0.0
8265.9	57.5°	2881.2	682.7	66.5	33.9	30.1	0.0	0.0	0.0	0.0	0.0
8053.8	58°	2780.8	652.5	69.0	35.1	32.6	0.0	0.0	0.0	0.0	0.0
6985.9	60°	2278.9	532.1	87.8	43.9	43.9	0.0	0.0	0.0	0.0	0.0
5727.3	62.5°	1573.6	464.3	100.4	56.5	45.2	0.0	0.0	0.0	0.0	0.0
4222.7	65°	1113.1	419.1	109.2	60.2	36.4	0.0	0.0	0.0	0.0	0.0
3000.4	67.5°	832.0	386.5	120.5	61.5	18.8	0.0	0.0	0.0	0.0	0.0
1882.3	70°	637.5	362.7	148.1	65.3	5.0	0.0	0.0	0.0	0.0	0.0
1121.9	72.5°	519.5	335.1	179.4	67.8	0.0	0.0	0.0	0.0	0.0	0.0
672.6	75°	430.4	302.4	173.2	74.0	0.0	0.0	0.0	0.0	0.0	0.0
358.9	77.5°	286.1	234.7	158.1	74.0	0.0	0.0	0.0	0.0	0.0	0.0
128.0	80°	100.4	92.9	123.0	65.3	0.0	0.0	0.0	0.0	0.0	0.0
26.4	82.5°	15.1	12.5	17.6	22.6	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1050025

CATALOG NUMBER: GALN-SA7A-940-U-LBC

CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
72.8	0°	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
51.5	2.5°	51.5	51.5	50.2	51.5	51.5	54.0	60.2	69.0	79.1	82.8
43.9	5°	42.7	41.4	40.2	40.2	40.2	43.9	48.9	59.0	70.3	75.3
36.4	7.5°	35.1	33.9	32.6	31.4	31.4	33.9	40.2	51.5	62.7	67.8
30.1	10°	28.9	26.4	25.1	23.8	23.8	26.4	32.6	43.9	56.5	61.5
25.1	12.5°	23.8	20.1	17.6	16.3	15.1	18.8	25.1	35.1	48.9	55.2
18.8	15°	16.3	12.5	8.8	7.5	6.3	10.0	16.3	27.6	41.4	48.9
10.0	17.5°	8.8	3.8	1.3	0.0	0.0	2.5	7.5	20.1	33.9	40.2
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	25.1	31.4
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	15.1	21.3
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	11.3
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
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	3.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	10.0
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: P1050025

CATALOG NUMBER: GALN-SA7A-940-U-LBC

CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
72.8	0°	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
86.6	2.5°	89.1	87.8	85.3	82.8	82.8	82.8	86.6	90.4	94.1	94.1
77.8	5°	82.8	82.8	81.6	79.1	79.1	80.3	85.3	91.6	96.6	97.9
71.5	7.5°	76.5	79.1	76.5	75.3	76.5	77.8	82.8	90.4	97.9	100.4
66.5	10°	72.8	74.0	74.0	72.8	72.8	75.3	80.3	90.4	100.4	104.2
60.2	12.5°	67.8	70.3	69.0	69.0	69.0	71.5	77.8	89.1	102.9	107.9
54.0	15°	62.7	66.5	66.5	65.3	65.3	66.5	75.3	87.8	106.7	115.4
46.4	17.5°	57.7	61.5	62.7	60.2	60.2	62.7	71.5	87.8	109.2	124.2
37.6	20°	47.7	54.0	57.7	54.0	54.0	56.5	65.3	82.8	110.4	133.0
27.6	22.5°	37.6	43.9	48.9	47.7	47.7	48.9	60.2	79.1	111.7	148.1
16.3	25°	27.6	33.9	37.6	40.2	40.2	43.9	55.2	76.5	116.7	179.4
7.5	27.5°	16.3	23.8	28.9	31.4	32.6	37.6	51.5	74.0	125.5	224.6
0.0	30°	7.5	13.8	20.1	25.1	25.1	33.9	47.7	71.5	136.8	289.9
0.0	32.5°	0.0	6.3	10.0	17.6	18.8	27.6	43.9	69.0	153.1	352.6
0.0	35°	0.0	0.0	5.0	13.8	13.8	22.6	40.2	66.5	178.2	400.3
0.0	37.5°	0.0	0.0	0.0	10.0	11.3	20.1	38.9	65.3	183.2	404.1
0.0	40°	0.0	0.0	0.0	7.5	8.8	18.8	38.9	66.5	165.6	395.3
0.0	42.5°	0.0	0.0	0.0	5.0	6.3	18.8	38.9	69.0	149.3	405.3
0.0	45°	0.0	0.0	0.0	3.8	5.0	20.1	37.6	67.8	140.5	458.0
0.0	47.5°	0.0	0.0	0.0	5.0	7.5	20.1	36.4	66.5	141.8	632.5
0.0	50°	0.0	0.0	0.0	6.3	8.8	20.1	37.6	64.0	155.6	972.5
0.0	52.5°	0.0	0.0	0.0	5.0	7.5	22.6	41.4	62.7	169.4	1264.9
0.0	55°	0.0	0.0	0.0	1.3	3.8	28.9	45.2	62.7	190.7	1337.7
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	32.6	51.5	66.5	225.9	1308.8
0.0	58°	0.0	0.0	0.0	0.0	0.0	32.6	52.7	66.5	228.4	1283.7
0.0	60°	0.0	0.0	0.0	0.0	0.0	32.6	57.7	74.0	246.0	1143.2
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	27.6	69.0	92.9	256.0	898.5
0.0	65°	0.0	0.0	0.0	0.0	0.0	22.6	81.6	101.6	263.5	715.3
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	21.3	84.1	102.9	267.3	569.7
0.0	70°	0.0	0.0	0.0	0.0	0.0	22.6	82.8	110.4	279.8	463.1
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	25.1	75.3	121.7	279.8	410.3
0.0	75°	0.0	0.0	0.0	0.0	0.0	26.4	70.3	136.8	254.7	355.1
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	25.1	69.0	159.4	227.1	292.4
0.0	80°	2.5	3.8	3.8	2.5	2.5	21.3	67.8	161.9	193.3	200.8
1.3	82.5°	7.5	10.0	8.8	6.3	6.3	18.8	60.2	135.5	100.4	86.6
7.5	85°	13.8	16.3	16.3	13.8	13.8	17.6	37.6	48.9	33.9	27.6
13.8	87.5°	18.8	21.3	21.3	18.8	18.8	17.6	16.3	15.1	13.8	13.8
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: SP1-2407-184-16

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-940-U-5WQ

Data in this report applies to families of products including GSS-SB1A-940-U-5WQ

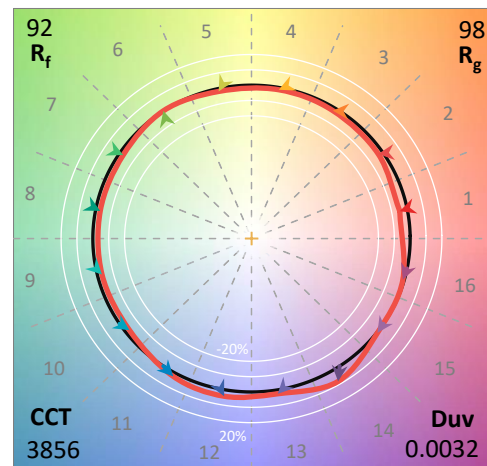
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-16
 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-940-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 4000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3856
 CIE u' : 0.2261
 CIE v' : 0.5084
 Duv: 0.0032
 CIE x: 0.3896
 CIE y: 0.3894
 CIE z: 0.2211
 Peak Wavelength (nm): 614
 Dominant Wavelength (nm): 578
 Purity: 33.77304
 R_f: 91.8
 R_g: 98.4

CRI (Ra): 92.1
 R1: 91.8
 R2: 94.1
 R3: 95.3
 R4: 92.8
 R5: 91.0
 R6: 91.6
 R7: 95.0
 R8: 85.2
 R9: 60.7
 R10: 85.2
 R11: 92.4
 R12: 74.5
 R13: 92.3
 R14: 97.0
 R15: 88.5



Test Conditions

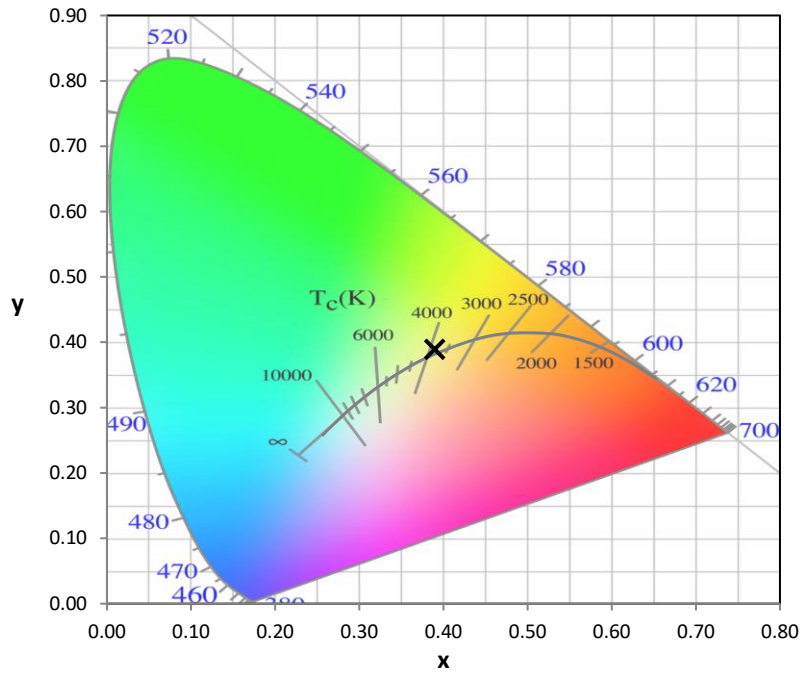
Stabilization Time: 23M
 Operation Time: 1H 23M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-16

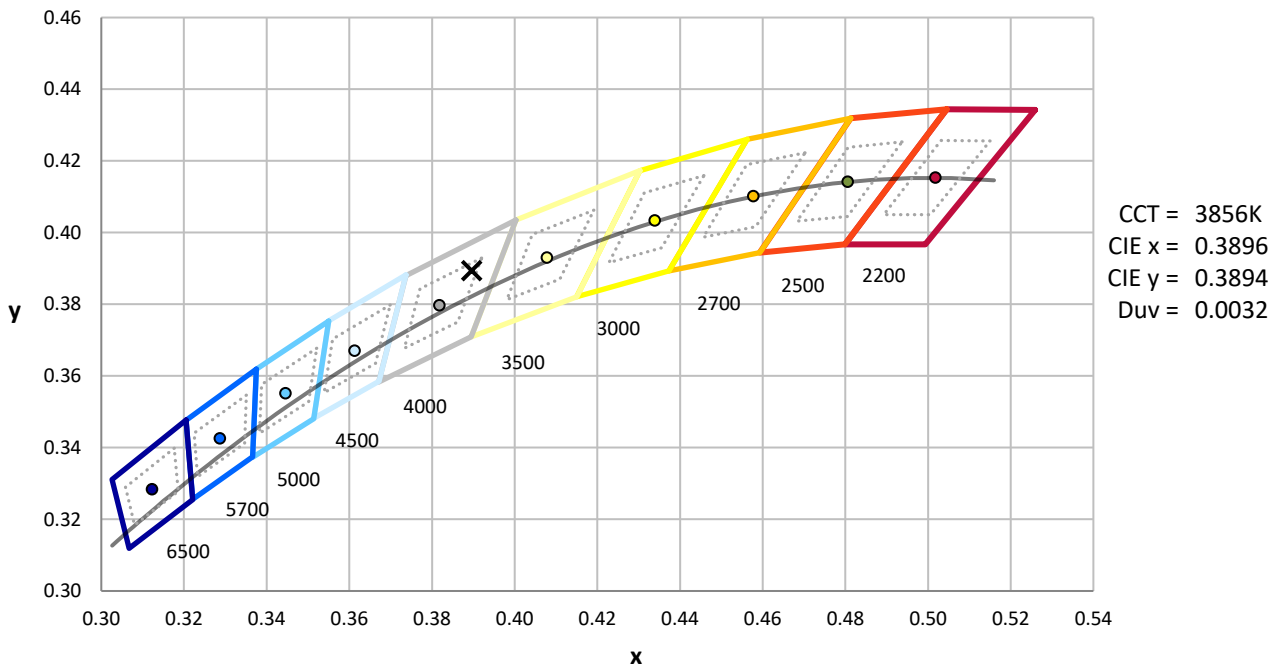
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-16

CIE 1931 Chromaticity Diagram



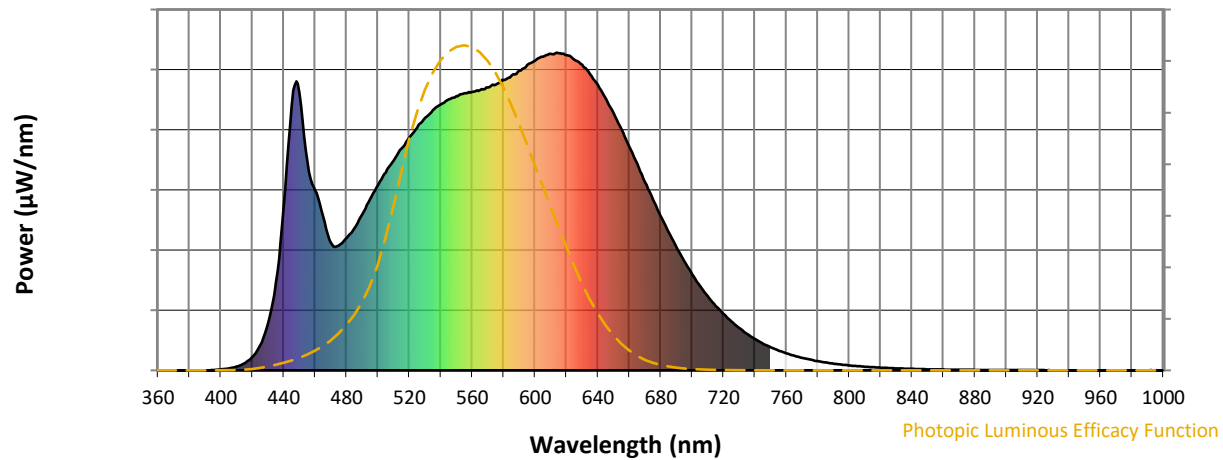
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-16

Photopic Flux vs. Wavelength

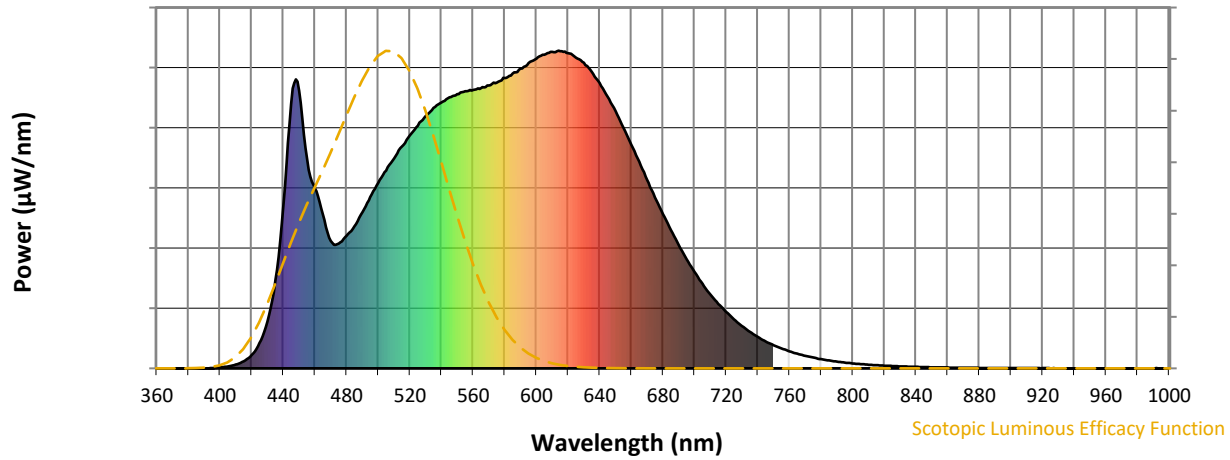


Photopic Lumens: NR

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	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-16

Scotopic Flux vs. Wavelength



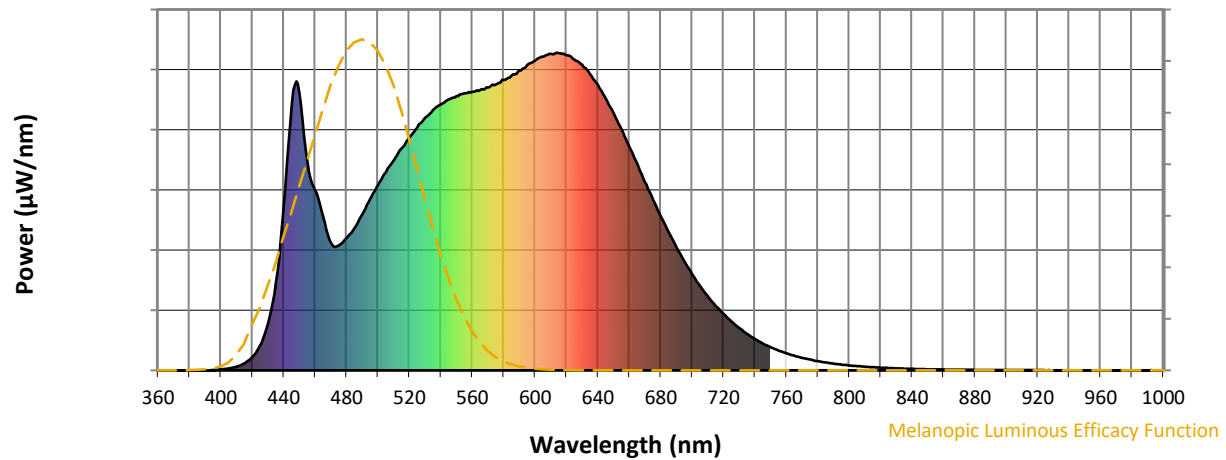
Scotopic Lumens: NR

S/P: 1.72

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	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-16

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.52

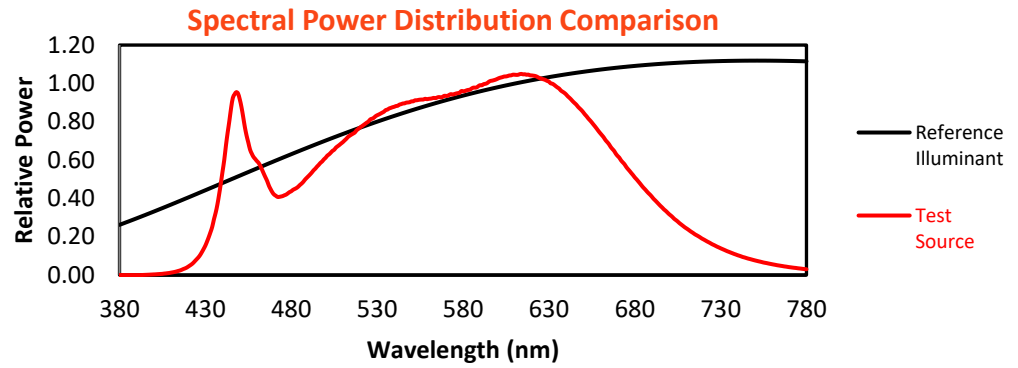
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-16

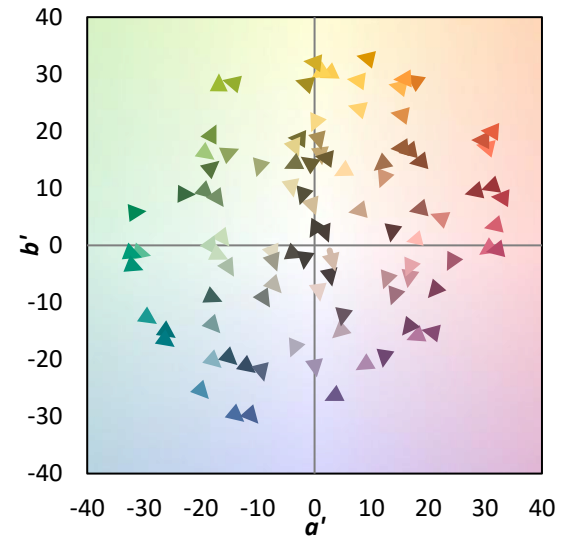
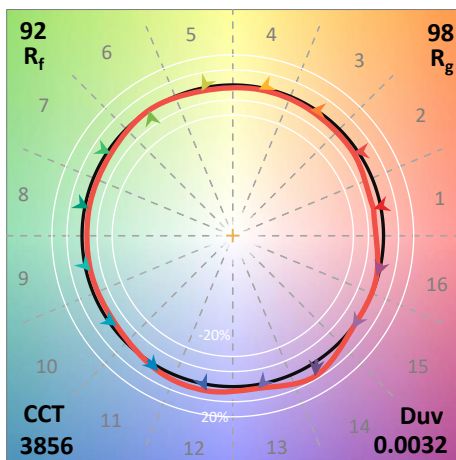
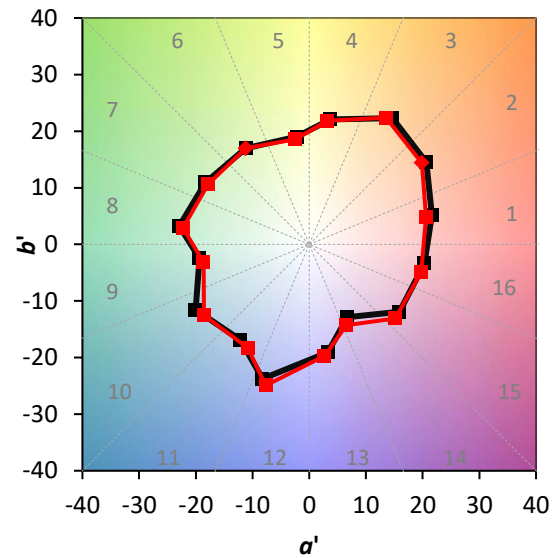
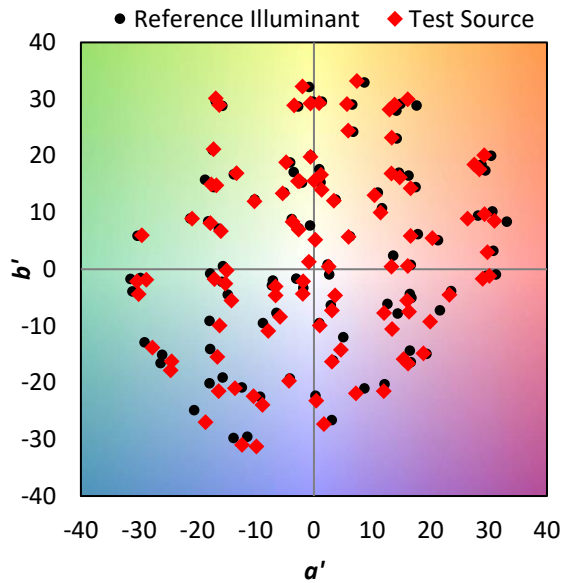
TM-30-18

Summary

$R_f = 91.8$
 $R_g = 98.4$
 $CIE R_a = 92.1$
 $R_9 = 60.7$

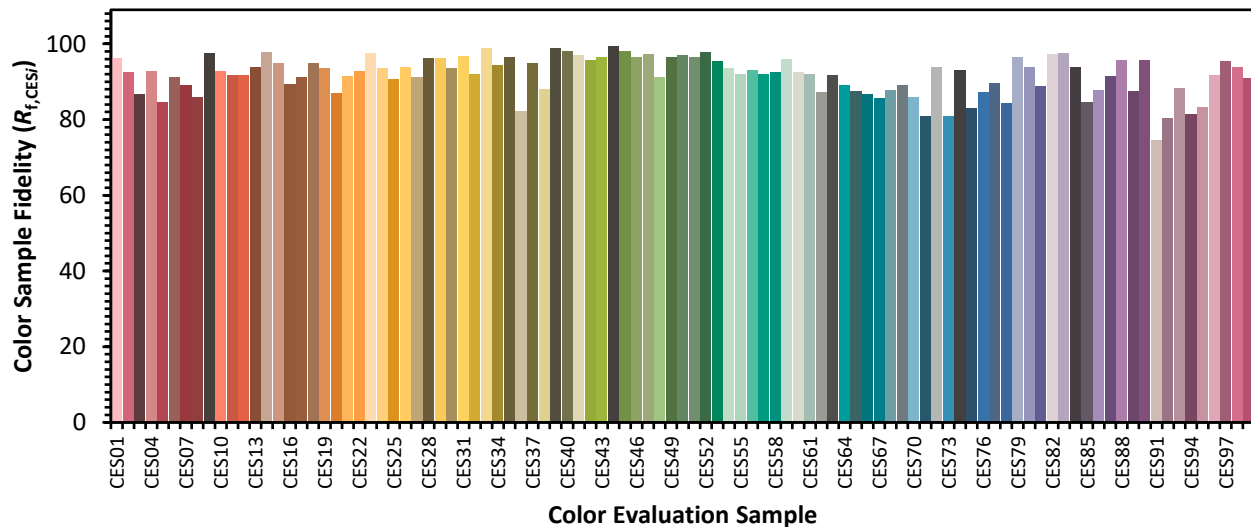


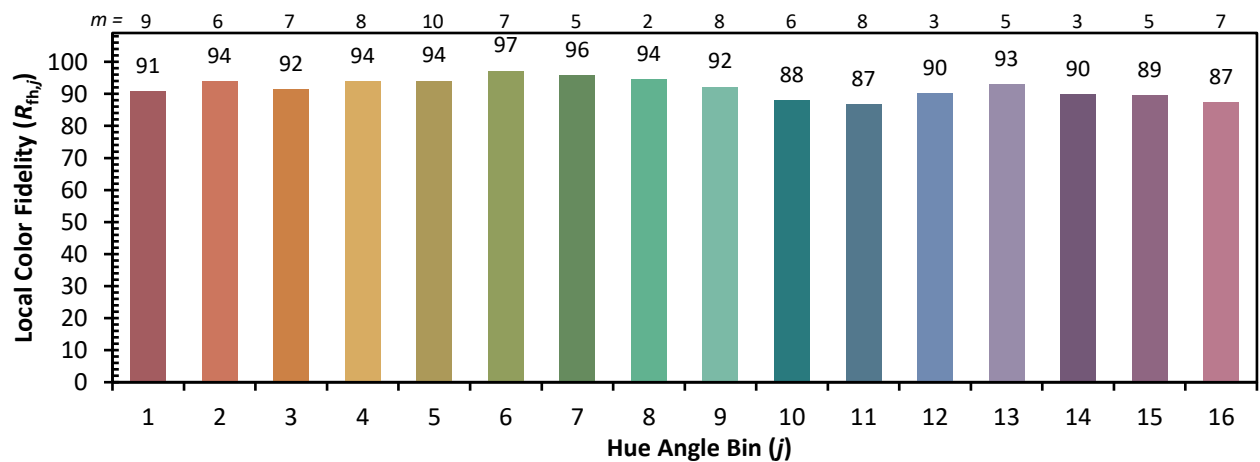
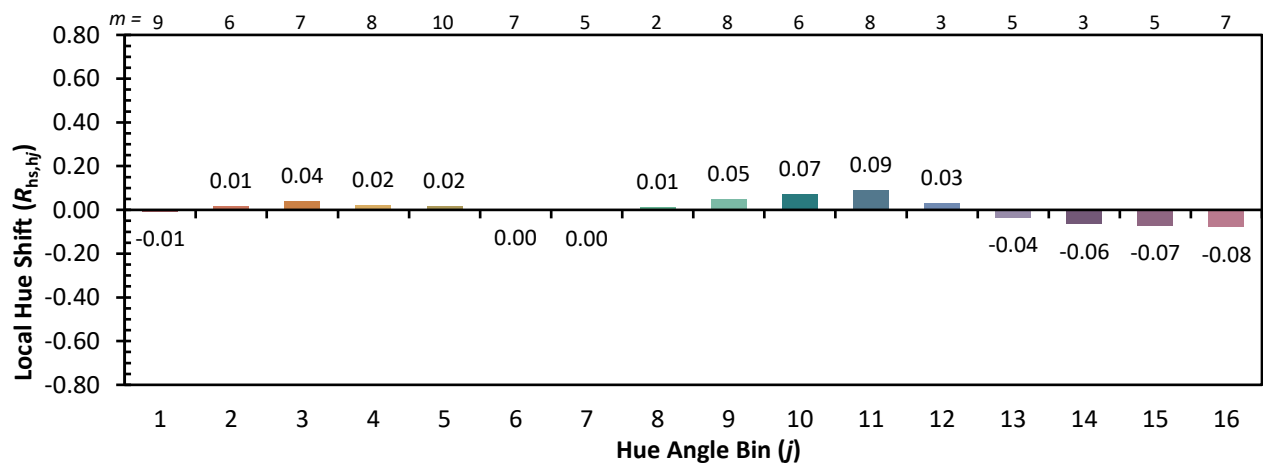
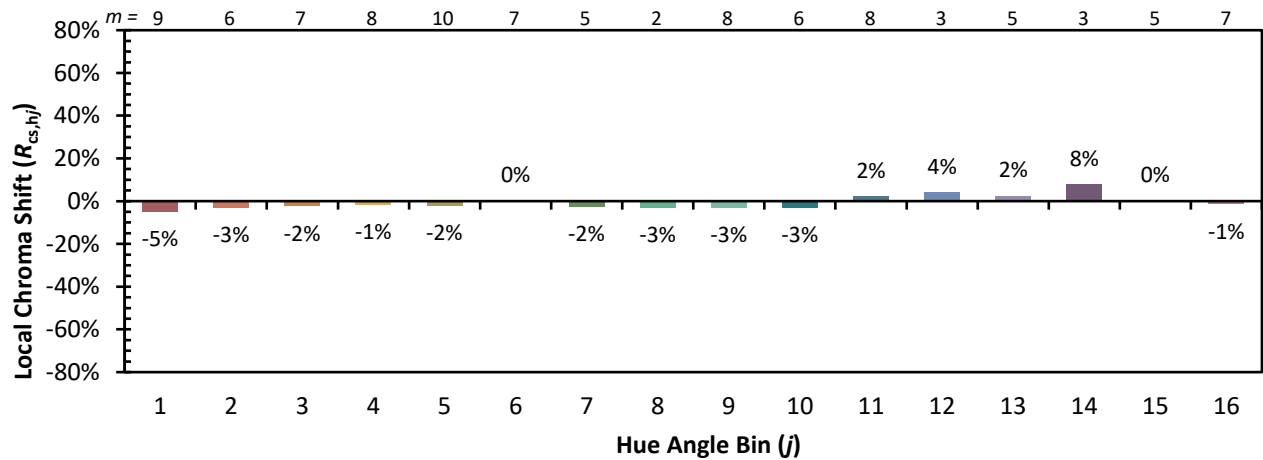
Color Vector Graphics



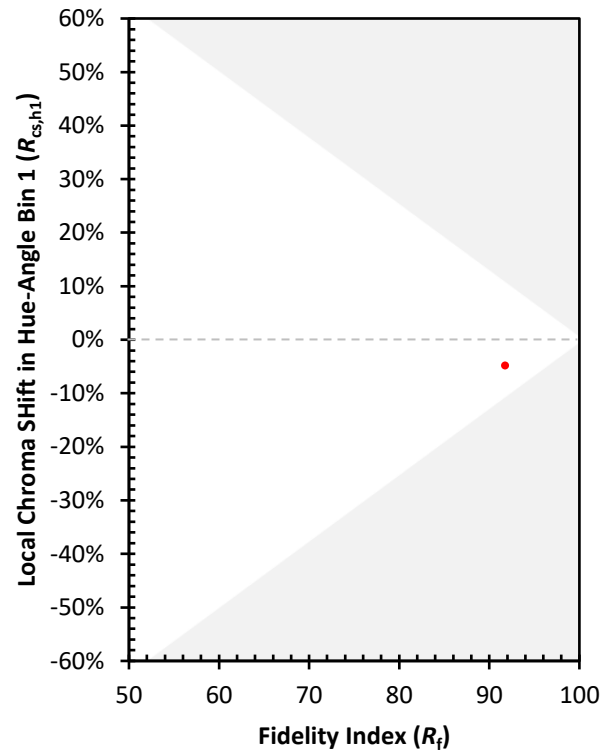
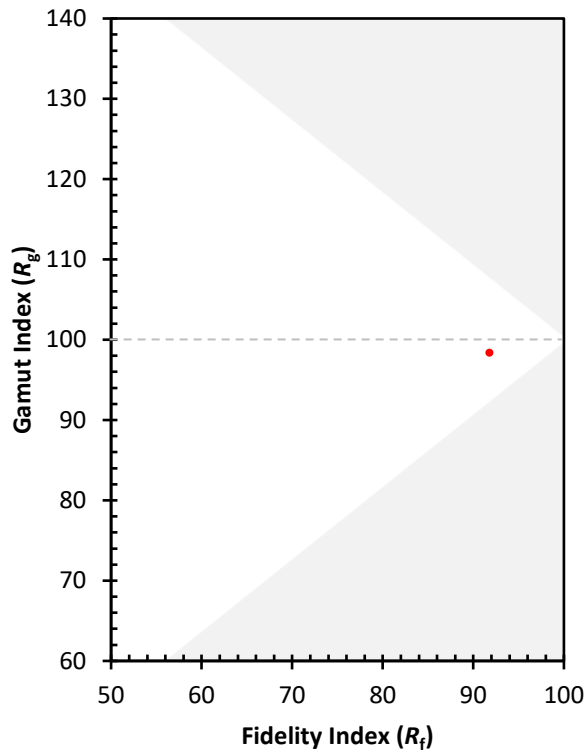
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 94	CES51 = 96	CES76 = 87
CES02 = 62	CES27 = 91	CES52 = 98	CES77 = 90
CES03 = 31	CES28 = 96	CES53 = 95	CES78 = 84
CES04 = 69	CES29 = 96	CES54 = 94	CES79 = 96
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 94
CES06 = 50	CES31 = 97	CES56 = 93	CES81 = 89
CES07 = 42	CES32 = 92	CES57 = 92	CES82 = 97
CES08 = 41	CES33 = 99	CES58 = 92	CES83 = 98
CES09 = 29	CES34 = 94	CES59 = 96	CES84 = 94
CES10 = 74	CES35 = 96	CES60 = 93	CES85 = 85
CES11 = 57	CES36 = 82	CES61 = 92	CES86 = 88
CES12 = 63	CES37 = 95	CES62 = 87	CES87 = 92
CES13 = 43	CES38 = 88	CES63 = 92	CES88 = 96
CES14 = 74	CES39 = 99	CES64 = 89	CES89 = 87
CES15 = 71	CES40 = 98	CES65 = 88	CES90 = 96
CES16 = 47	CES41 = 97	CES66 = 87	CES91 = 74
CES17 = 49	CES42 = 96	CES67 = 86	CES92 = 80
CES18 = 56	CES43 = 96	CES68 = 88	CES93 = 88
CES19 = 71	CES44 = 99	CES69 = 89	CES94 = 82
CES20 = 66	CES45 = 98	CES70 = 86	CES95 = 83
CES21 = 85	CES46 = 97	CES71 = 81	CES96 = 92
CES22 = 78	CES47 = 97	CES72 = 94	CES97 = 95
CES23 = 91	CES48 = 91	CES73 = 81	CES98 = 94
CES24 = 90	CES49 = 96	CES74 = 93	CES99 = 91
CES25 = 71	CES50 = 97	CES75 = 83	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)