

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: P1049521

Luminaire Tested: **GALN-SA7A-722-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049521
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-722-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 7xLight Square PACKAGE
70CRI 2200K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (98) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16614 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

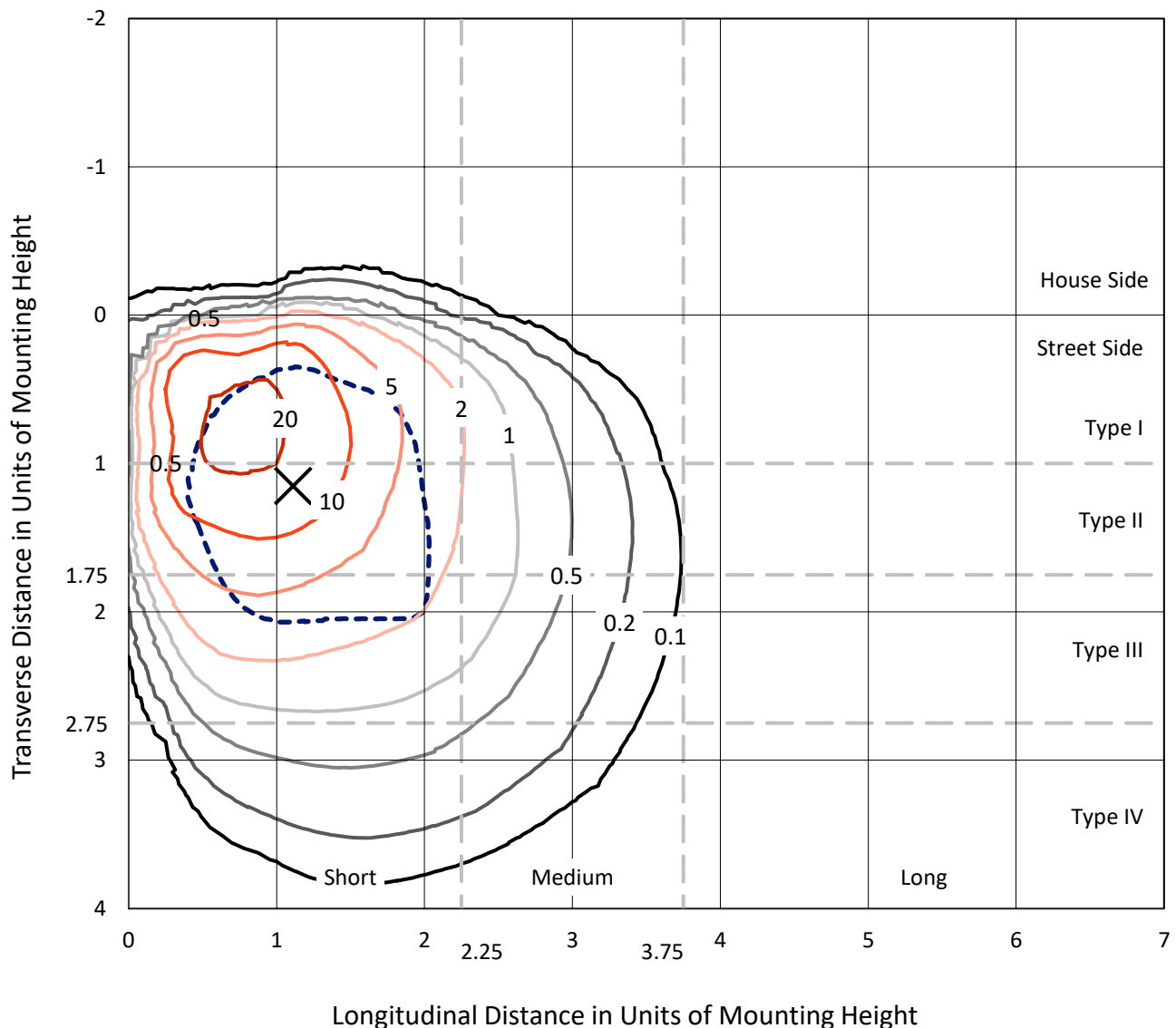
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd

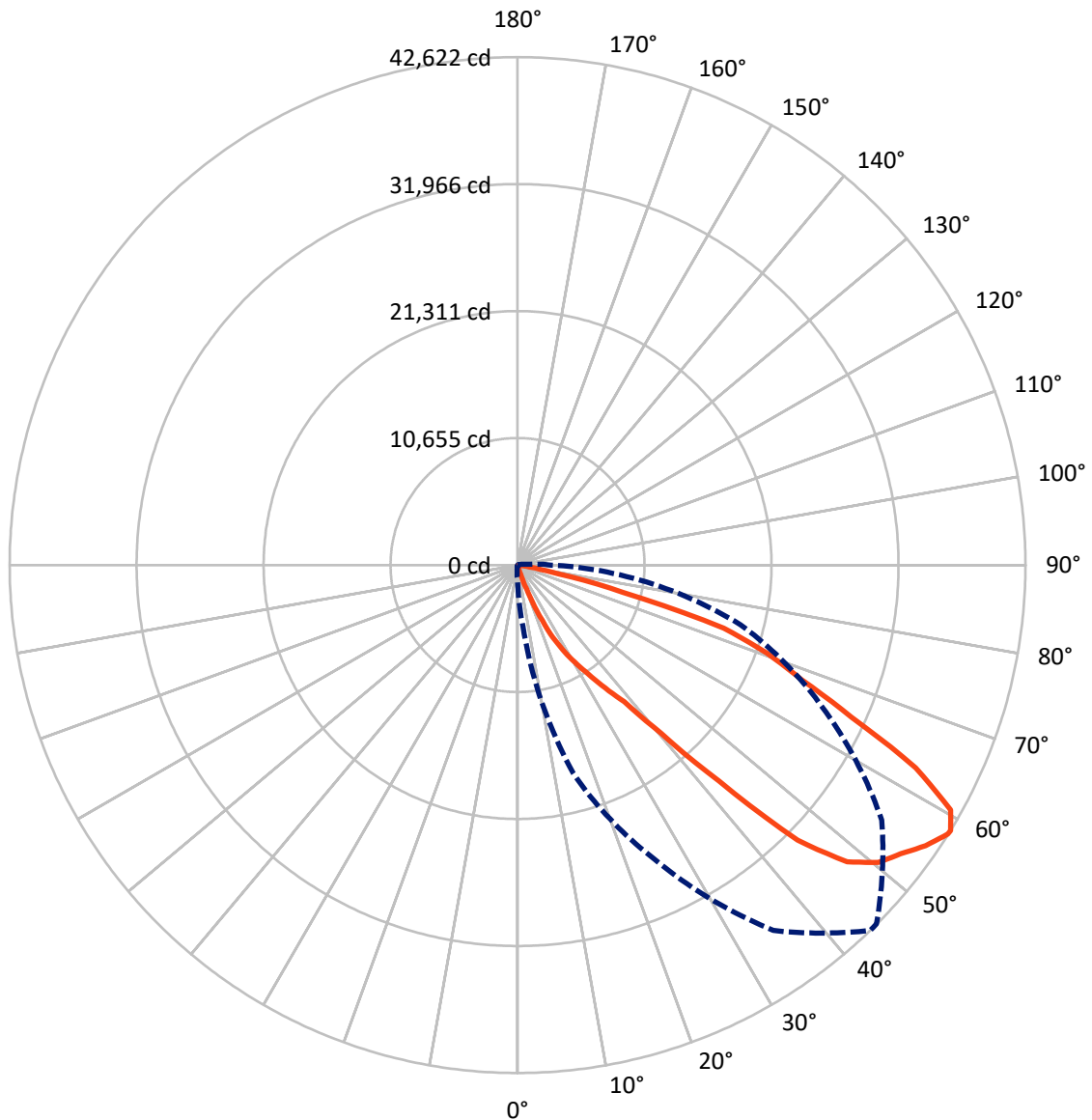


Based on 20 foot mounting height. Maximum calculated value = 28.9 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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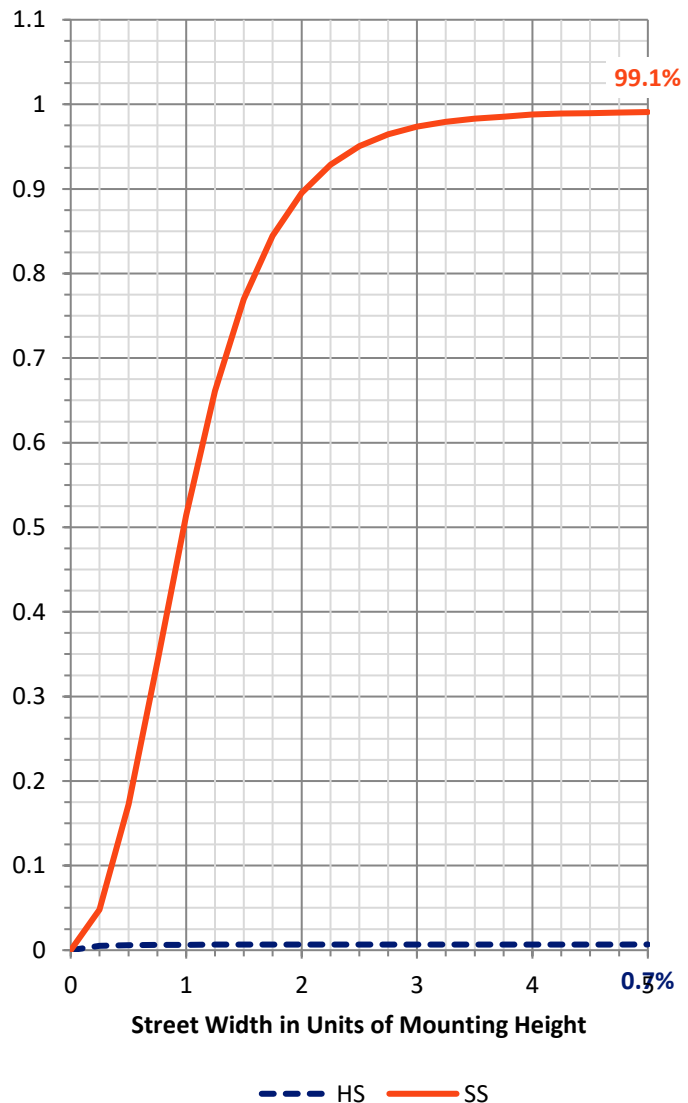
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	113.4	0.0	113.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	16500.6	0.0	16500.6
	% Fixture	99.3	0.0	99.3
Total	Lumens	16614.0	0.0	16614.0
	% 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°	393.6	2.4
30°-40°	1164.0	7.0
40°-50°	3469.3	20.9
50°-60°	5504.9	33.1
60°-70°	4591.7	27.6
70°-80°	1416.2	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°	16614.0	100.0
0°-180°	16614.0	100.0



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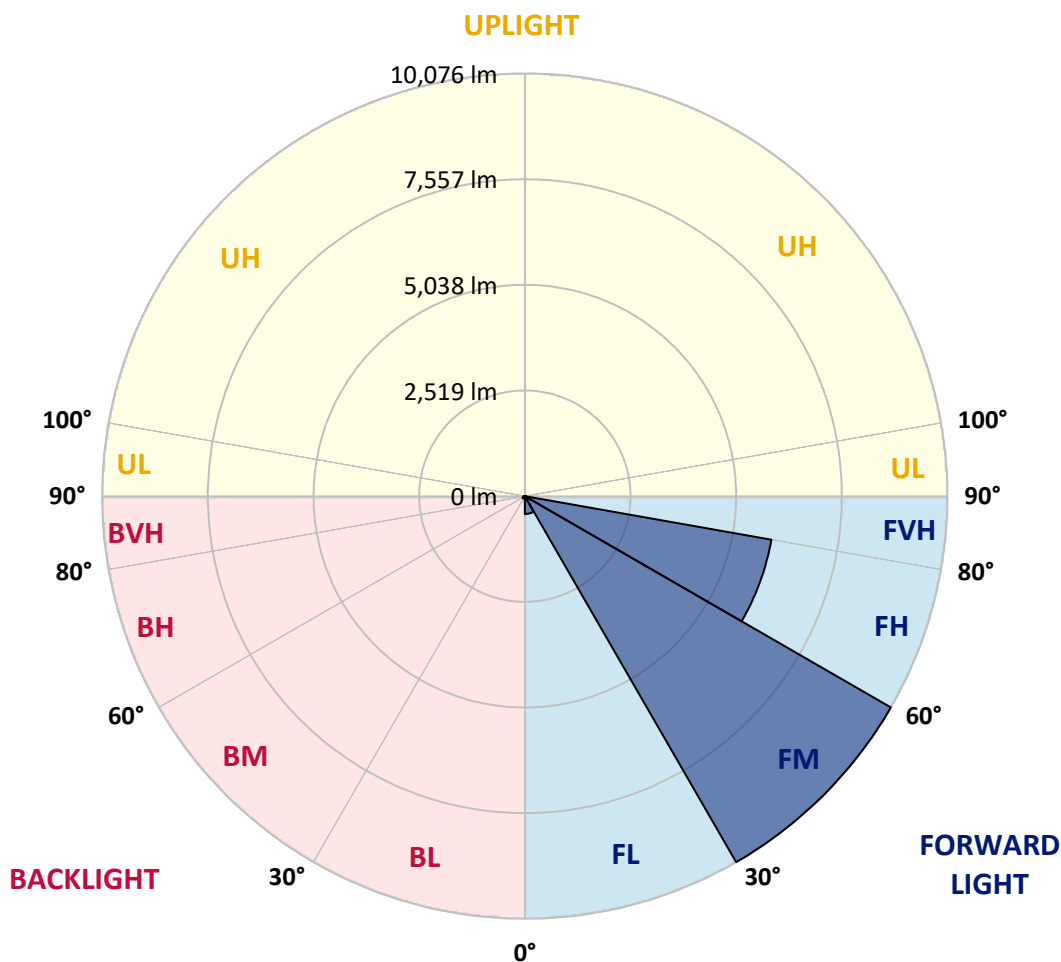
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	425.4	2.6			
FM	(30°-60°)	10076.1	60.6			
FH	(60°-80°)	5969.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	72.8	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	67.8
5°	97.9	97.9	96.6	92.9	87.9	84.1	84.1	80.3	77.8	75.3	72.8
7.5°	100.4	101.7	104.2	102.9	100.4	96.6	96.6	94.1	90.4	84.1	80.3
10°	104.2	107.9	113.0	115.5	116.7	116.7	115.5	114.2	107.9	99.1	89.1
12.5°	107.9	115.5	128.0	140.6	148.1	158.1	156.9	154.4	138.1	119.2	101.7
15°	115.5	126.8	153.1	189.5	246.0	281.1	294.9	282.4	228.4	160.6	118.0
17.5°	124.2	143.1	222.1	396.6	650.1	770.6	843.4	784.4	519.6	305.0	148.1
20°	133.0	174.5	412.9	1027.9	1686.8	2080.9	2190.1	2019.4	1296.5	581.1	219.6
22.5°	148.1	244.7	837.1	2124.8	3634.6	4225.8	4337.5	3791.5	2448.6	1147.1	330.1
25°	179.5	355.2	1443.3	3462.7	5424.3	6422.1	6375.7	5660.3	3972.2	1832.4	502.0
27.5°	224.7	517.1	2182.5	4919.8	7138.7	8018.5	8123.9	7239.1	5295.1	2694.6	712.9
30°	289.9	716.6	2975.7	6087.0	8513.0	9464.3	9481.9	8567.0	6478.6	3451.4	971.4
32.5°	352.7	904.9	3669.8	7215.3	9867.2	10910.1	10988.0	9862.2	7362.1	4239.6	1196.1
35°	400.4	1027.9	4372.6	8206.8	11232.7	12669.7	12664.7	11328.1	8408.8	4943.6	1507.3
37.5°	404.1	1150.9	5008.9	9220.9	12962.2	14571.1	14730.5	13257.1	9673.9	5814.6	1888.9
40°	395.3	1288.9	5814.6	10802.2	16078.4	18547.1	18687.7	16830.2	12211.6	7305.6	2485.0
42.5°	405.4	1528.7	7122.4	13722.7	21253.0	24798.5	25069.6	23116.8	16876.7	10347.9	3548.0
45°	458.1	1979.2	9862.2	18608.6	28628.9	32951.3	32861.0	30048.4	22304.7	14979.0	5651.5
47.5°	632.5	3082.4	13923.5	23364.0	33342.9	37192.1	37270.0	33832.4	25472.5	18539.6	8484.1
50°	972.7	4716.5	17336.0	25877.9	35369.8	39231.6	39158.8	35186.6	26676.1	20292.9	10219.9
52.5°	1265.1	5898.7	19047.9	26760.2	35629.6	40239.4	40234.4	35543.0	26863.1	20443.5	10437.0
55°	1337.9	5987.8	19061.7	26807.9	36212.0	41558.5	41724.1	36420.3	27105.3	19785.9	9620.0
57.5°	1309.0	5301.3	18266.0	27084.0	37248.6	42578.8	42587.6	37270.0	27720.3	19383.0	8267.0
58°	1283.9	5193.4	18105.3	27240.9	37426.8	42621.5	42600.2	37308.9	28221.1	19367.9	8054.9
60°	1143.4	4509.4	17479.1	27641.2	37162.0	41745.5	41545.9	36459.2	28147.0	19213.6	6986.9
62.5°	898.6	3517.9	16862.9	27178.1	34323.1	37504.7	37587.5	32278.6	25659.5	18313.7	5728.0
65°	715.4	2621.8	15577.7	23839.7	28263.7	30798.9	31107.7	26248.1	21417.4	15507.4	4223.2
67.5°	569.8	1895.1	13067.6	18980.1	22365.0	25704.7	25929.3	22037.4	16593.0	11881.6	3000.8
70°	463.1	1281.4	9020.0	13880.9	18446.7	22201.8	22215.6	18307.4	12384.8	7785.1	1882.6
72.5°	410.4	887.3	5236.1	10123.2	14957.7	18091.5	17726.3	14856.0	9518.3	4611.1	1122.0
75°	355.2	588.6	2567.8	6188.7	9069.0	9130.5	9269.8	6891.5	4757.9	2192.6	672.7
77.5°	292.4	417.9	1011.6	1690.6	2719.7	3481.5	3610.8	2736.0	1582.6	539.7	358.9
80°	200.8	198.3	272.3	518.3	778.1	975.2	909.9	704.1	414.2	207.1	128.0
82.5°	86.6	94.1	123.0	148.1	120.5	116.7	111.7	71.5	55.2	42.7	26.4
85°	27.6	25.1	26.4	26.4	21.3	16.3	16.3	7.5	0.0	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	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
2.5°	66.5	66.5	64.0	61.5	60.2	57.7	56.5	55.2	54.0	52.7	51.5
5°	70.3	69.0	65.3	61.5	57.7	54.0	51.5	48.9	46.4	45.2	43.9
7.5°	76.6	74.0	66.5	60.2	55.2	50.2	47.7	43.9	41.4	37.7	36.4
10°	84.1	79.1	69.0	61.5	54.0	47.7	43.9	40.2	36.4	31.4	30.1
12.5°	94.1	85.3	72.8	60.2	51.5	43.9	40.2	35.1	31.4	27.6	25.1
15°	102.9	91.6	74.0	60.2	48.9	40.2	35.1	30.1	26.4	21.3	18.8
17.5°	115.5	96.6	72.8	56.5	45.2	35.1	30.1	26.4	20.1	12.6	10.0
20°	136.8	100.4	70.3	52.7	38.9	28.9	22.6	17.6	8.8	2.5	0.0
22.5°	170.7	110.4	67.8	47.7	33.9	22.6	15.1	6.3	0.0	0.0	0.0
25°	235.9	128.0	67.8	45.2	30.1	16.3	5.0	0.0	0.0	0.0	0.0
27.5°	313.8	151.9	67.8	38.9	23.8	8.8	0.0	0.0	0.0	0.0	0.0
30°	392.8	178.2	67.8	33.9	18.8	1.3	0.0	0.0	0.0	0.0	0.0
32.5°	468.1	200.8	69.0	28.9	12.6	0.0	0.0	0.0	0.0	0.0	0.0
35°	544.7	204.6	67.8	25.1	7.5	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	642.6	197.0	64.0	22.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0
40°	790.7	200.8	60.2	21.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1064.3	217.1	55.2	21.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1839.9	291.2	50.2	22.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3043.5	523.4	48.9	22.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3884.4	658.9	51.5	23.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3878.1	734.2	54.0	25.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3447.6	748.0	57.7	27.6	16.3	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	2881.6	682.7	66.5	33.9	30.1	0.0	0.0	0.0	0.0	0.0	0.0
58°	2781.2	652.6	69.0	35.1	32.6	0.0	0.0	0.0	0.0	0.0	0.0
60°	2279.2	532.1	87.9	43.9	43.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1573.8	464.4	100.4	56.5	45.2	0.0	0.0	0.0	0.0	0.0	0.0
65°	1113.2	419.2	109.2	60.2	36.4	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	832.1	386.6	120.5	61.5	18.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	637.6	362.7	148.1	65.3	5.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	519.6	335.1	179.5	67.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	430.5	302.5	173.2	74.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	286.2	234.7	158.1	74.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	100.4	92.9	123.0	65.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	15.1	12.6	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	0.0

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
2.5°	51.5	51.5	50.2	51.5	51.5	54.0	60.2	69.0	79.1	82.8	86.6
5°	42.7	41.4	40.2	40.2	40.2	43.9	48.9	59.0	70.3	75.3	77.8
7.5°	35.1	33.9	32.6	31.4	31.4	33.9	40.2	51.5	62.8	67.8	71.5
10°	28.9	26.4	25.1	23.8	23.8	26.4	32.6	43.9	56.5	61.5	66.5
12.5°	23.8	20.1	17.6	16.3	15.1	18.8	25.1	35.1	48.9	55.2	60.2
15°	16.3	12.6	8.8	7.5	6.3	10.0	16.3	27.6	41.4	48.9	54.0
17.5°	8.8	3.8	1.3	0.0	0.0	2.5	7.5	20.1	33.9	40.2	46.4
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	25.1	31.4	37.7
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	15.1	21.3	27.6
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	11.3	16.3
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	7.5
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	1.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	7.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	10.0	13.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
0°	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
2.5°	89.1	87.9	85.3	82.8	82.8	82.8	86.6	90.4	94.1	94.1
5°	82.8	82.8	81.6	79.1	79.1	80.3	85.3	91.6	96.6	97.9
7.5°	76.6	79.1	76.6	75.3	76.6	77.8	82.8	90.4	97.9	100.4
10°	72.8	74.0	74.0	72.8	72.8	75.3	80.3	90.4	100.4	104.2
12.5°	67.8	70.3	69.0	69.0	69.0	71.5	77.8	89.1	102.9	107.9
15°	62.8	66.5	66.5	65.3	65.3	66.5	75.3	87.9	106.7	115.5
17.5°	57.7	61.5	62.8	60.2	60.2	62.8	71.5	87.9	109.2	124.2
20°	47.7	54.0	57.7	54.0	54.0	56.5	65.3	82.8	110.4	133.0
22.5°	37.7	43.9	48.9	47.7	47.7	48.9	60.2	79.1	111.7	148.1
25°	27.6	33.9	37.7	40.2	40.2	43.9	55.2	76.6	116.7	179.5
27.5°	16.3	23.8	28.9	31.4	32.6	37.7	51.5	74.0	125.5	224.7
30°	7.5	13.8	20.1	25.1	25.1	33.9	47.7	71.5	136.8	289.9
32.5°	0.0	6.3	10.0	17.6	18.8	27.6	43.9	69.0	153.1	352.7
35°	0.0	0.0	5.0	13.8	13.8	22.6	40.2	66.5	178.2	400.4
37.5°	0.0	0.0	0.0	10.0	11.3	20.1	38.9	65.3	183.2	404.1
40°	0.0	0.0	0.0	7.5	8.8	18.8	38.9	66.5	165.7	395.3
42.5°	0.0	0.0	0.0	5.0	6.3	18.8	38.9	69.0	149.4	405.4
45°	0.0	0.0	0.0	3.8	5.0	20.1	37.7	67.8	140.6	458.1
47.5°	0.0	0.0	0.0	5.0	7.5	20.1	36.4	66.5	141.8	632.5
50°	0.0	0.0	0.0	6.3	8.8	20.1	37.7	64.0	155.6	972.7
52.5°	0.0	0.0	0.0	5.0	7.5	22.6	41.4	62.8	169.4	1265.1
55°	0.0	0.0	0.0	1.3	3.8	28.9	45.2	62.8	190.8	1337.9
57.5°	0.0	0.0	0.0	0.0	0.0	32.6	51.5	66.5	225.9	1309.0
58°	0.0	0.0	0.0	0.0	0.0	32.6	52.7	66.5	228.4	1283.9
60°	0.0	0.0	0.0	0.0	0.0	32.6	57.7	74.0	246.0	1143.4
62.5°	0.0	0.0	0.0	0.0	0.0	27.6	69.0	92.9	256.0	898.6
65°	0.0	0.0	0.0	0.0	0.0	22.6	81.6	101.7	263.6	715.4
67.5°	0.0	0.0	0.0	0.0	0.0	21.3	84.1	102.9	267.3	569.8
70°	0.0	0.0	0.0	0.0	0.0	22.6	82.8	110.4	279.9	463.1
72.5°	0.0	0.0	0.0	0.0	0.0	25.1	75.3	121.7	279.9	410.4
75°	0.0	0.0	0.0	0.0	0.0	26.4	70.3	136.8	254.8	355.2
77.5°	0.0	0.0	0.0	0.0	0.0	25.1	69.0	159.4	227.2	292.4
80°	2.5	3.8	3.8	2.5	2.5	21.3	67.8	161.9	193.3	200.8
82.5°	7.5	10.0	8.8	6.3	6.3	18.8	60.2	135.5	100.4	86.6
85°	13.8	16.3	16.3	13.8	13.8	17.6	37.7	48.9	33.9	27.6
87.5°	18.8	21.3	21.3	18.8	18.8	17.6	16.3	15.1	13.8	13.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-2

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-722-U-5WQ

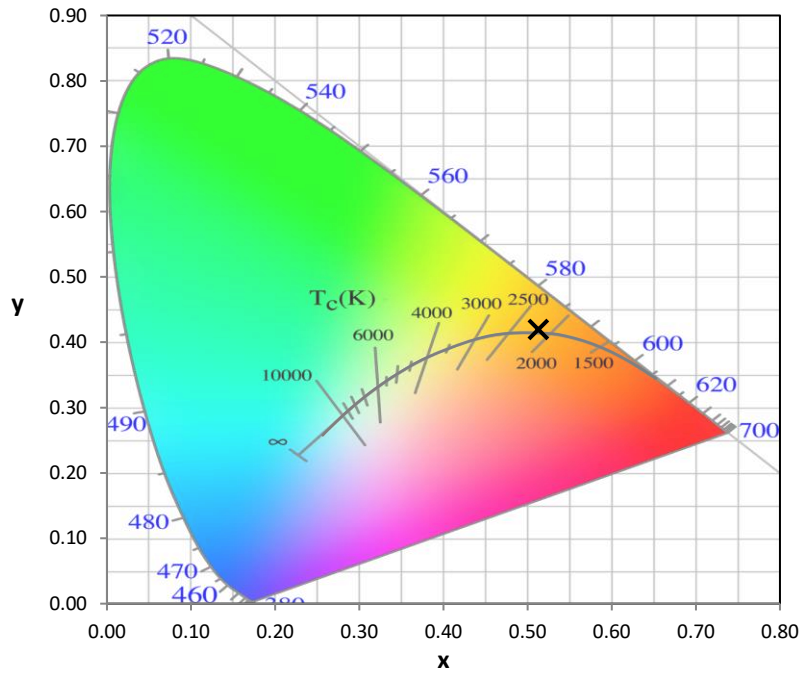
Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

REPORT NUMBER: SP1-2407-184-2

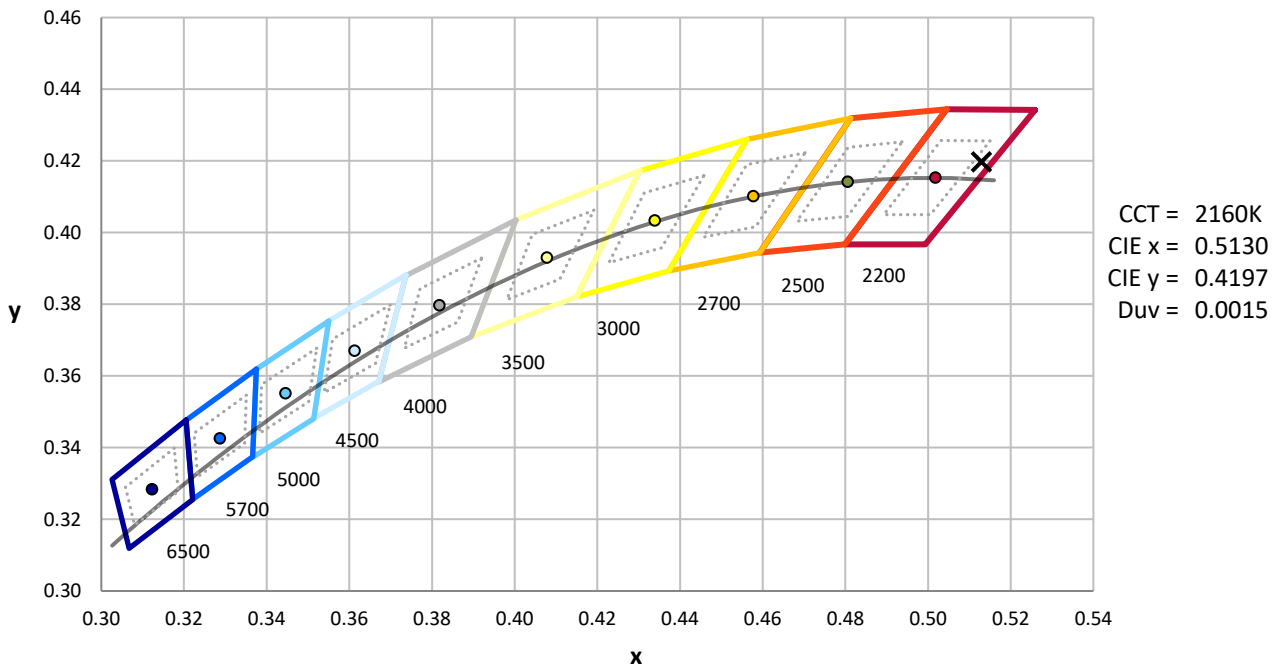
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



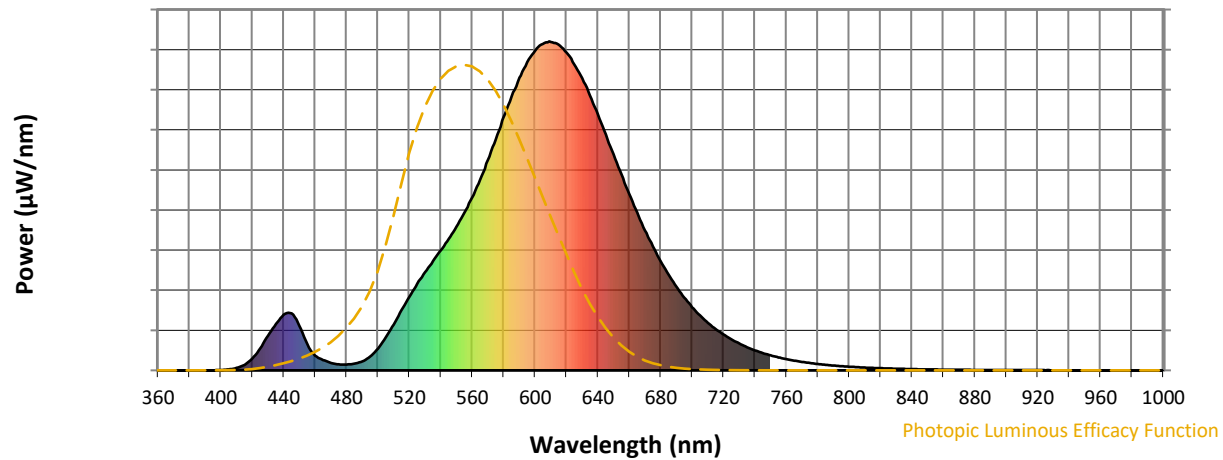
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

Photopic Flux vs. Wavelength

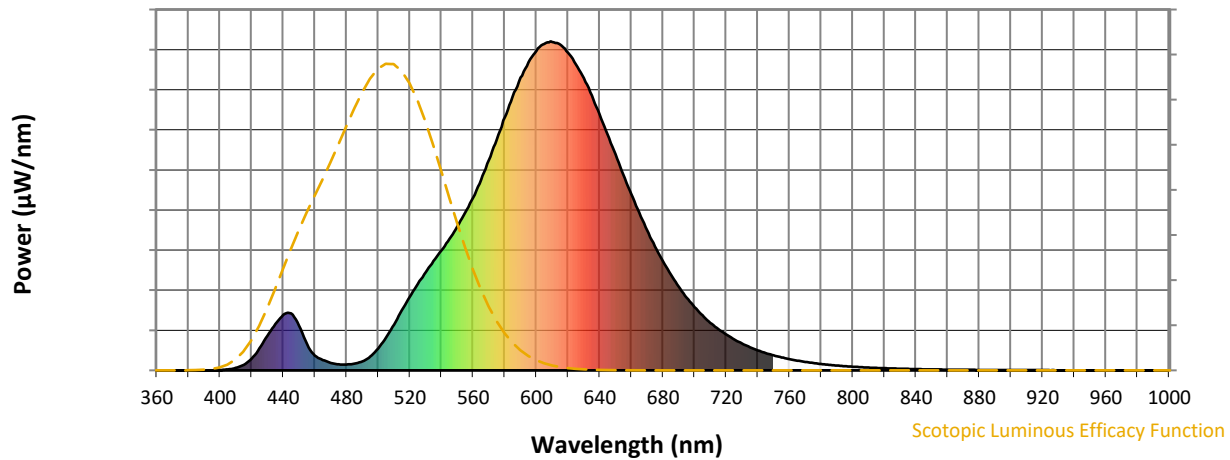


Photopic Lumens: NR

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

Scotopic Flux vs. Wavelength



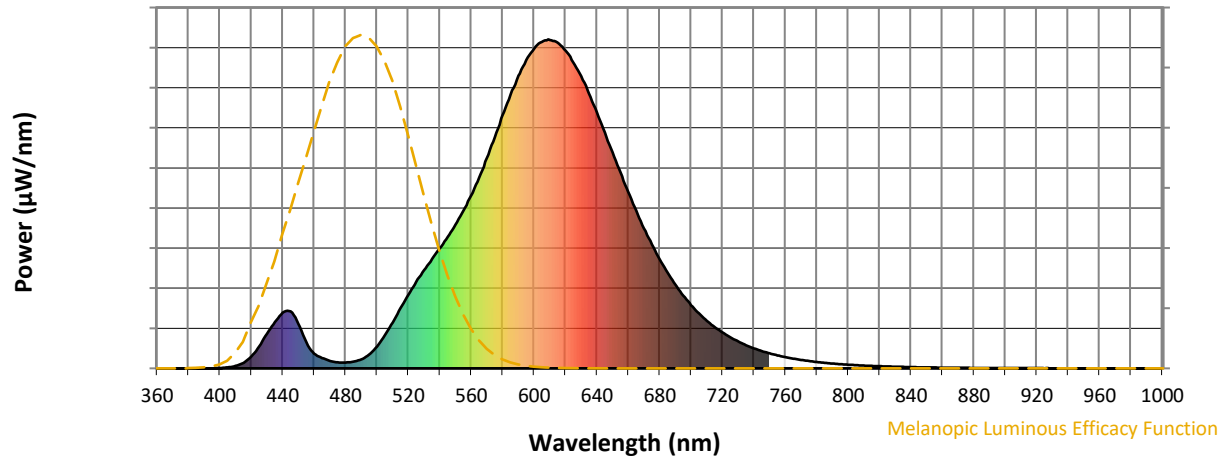
Scotopic Lumens: NR

S/P: 0.8

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 1.21

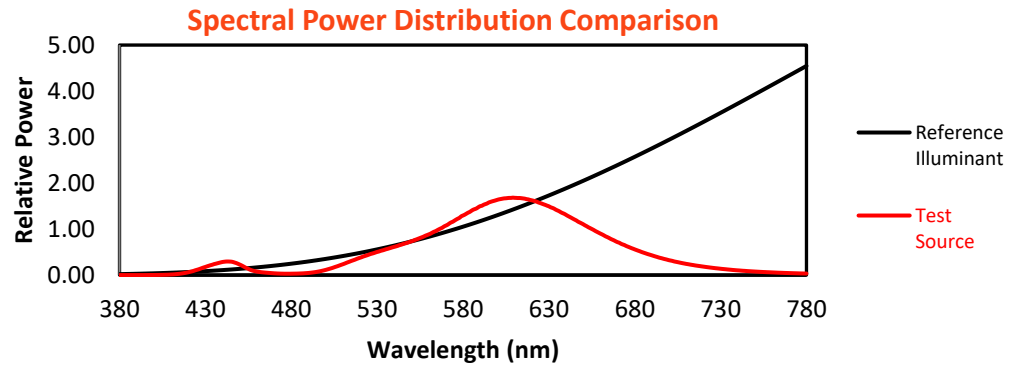
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

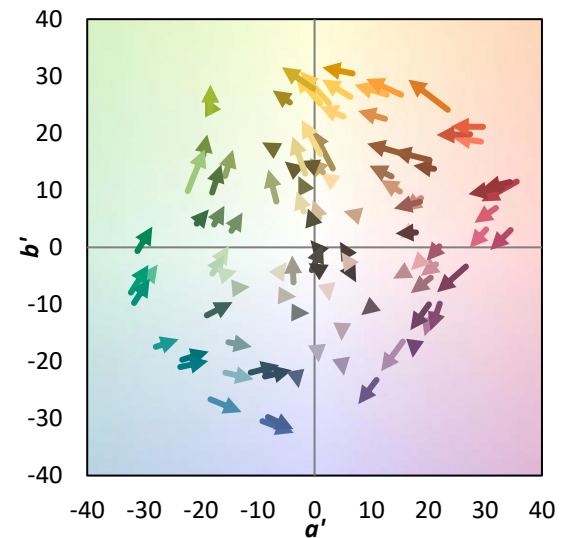
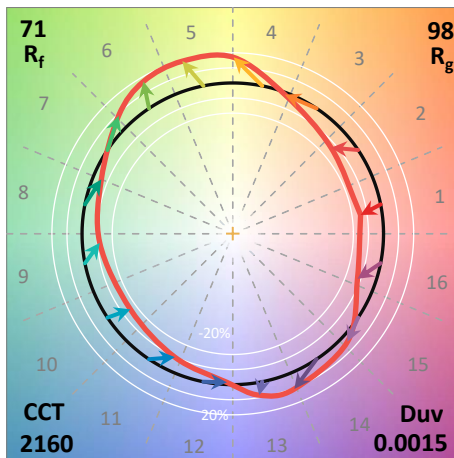
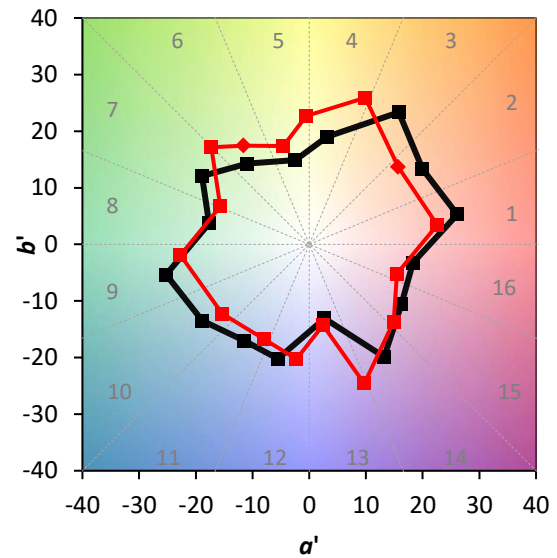
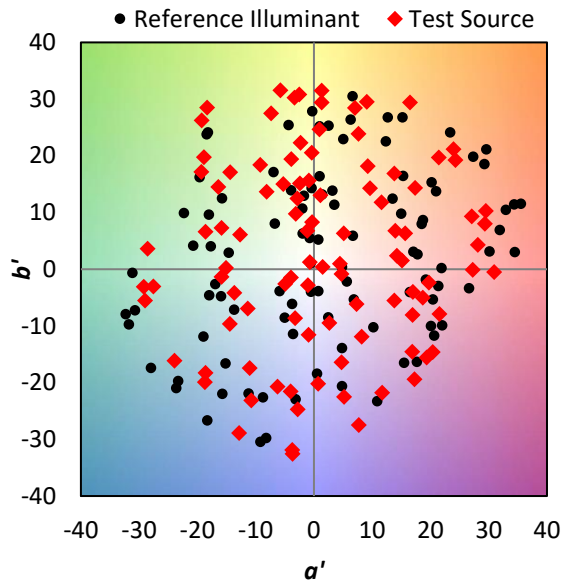
TM-30-18

Summary

$R_f = 70.6$
 $R_g = 97.6$
 $CIE R_a = 71.9$
 $R_g = -17.8$

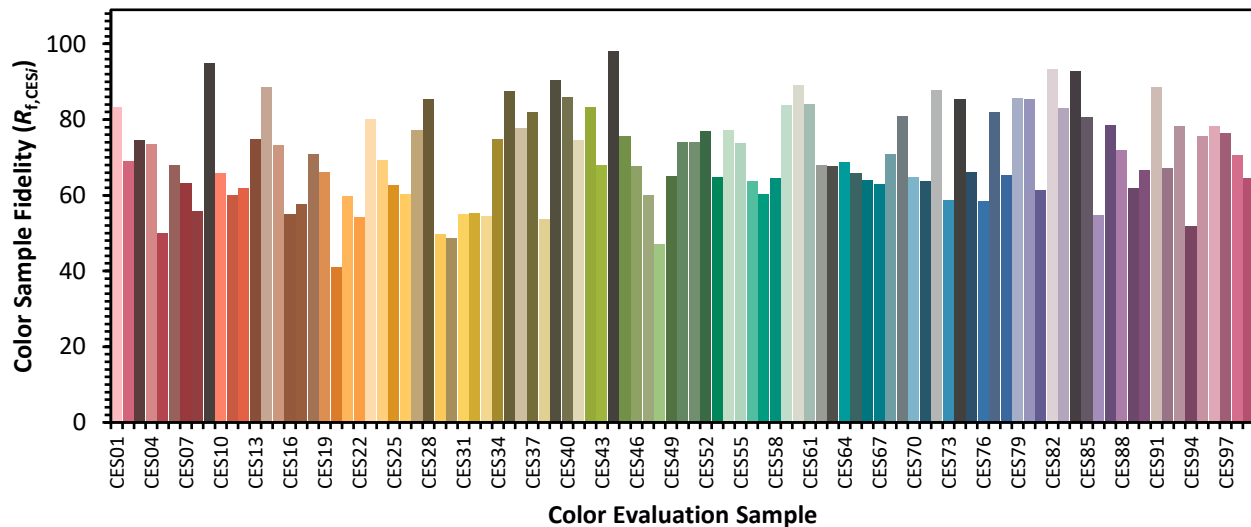


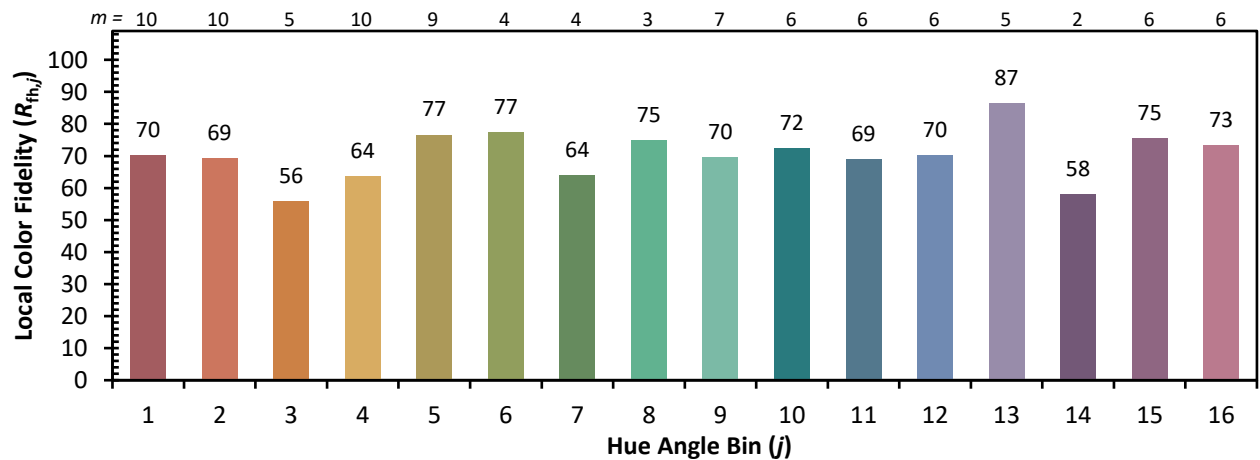
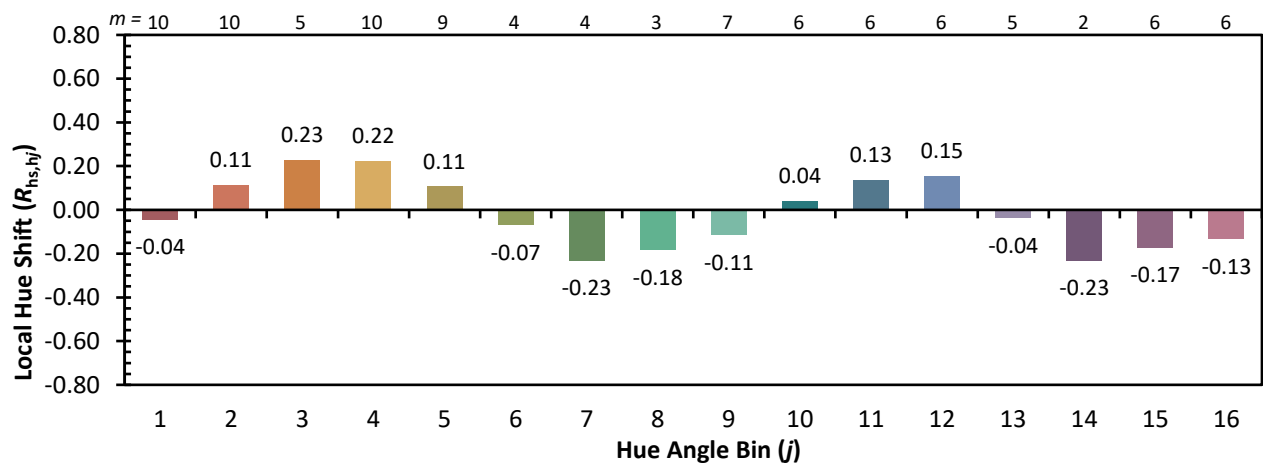
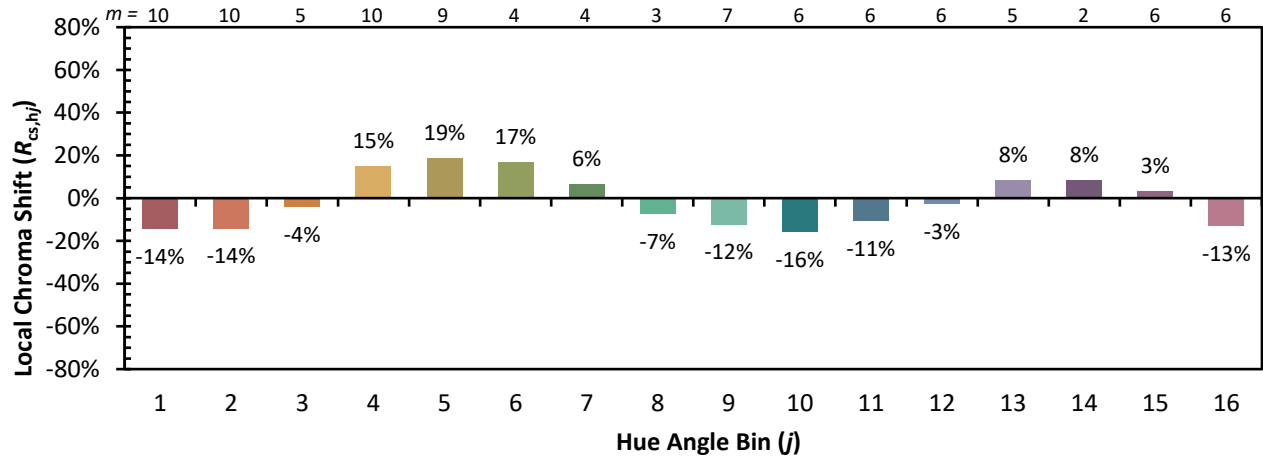
Color Vector Graphics



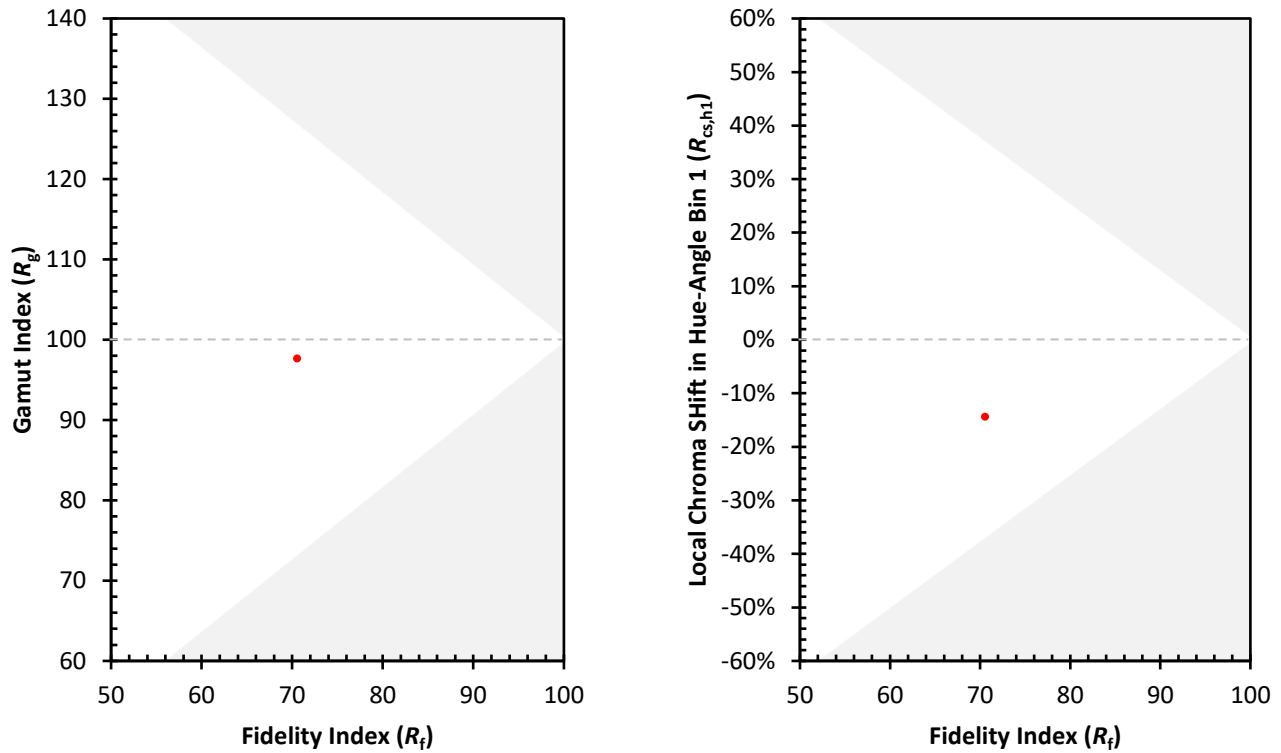
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 87	CES26 = 60	CES51 = 74	CES76 = 58
CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82 = 93
CES08 = 43	CES33 = 55	CES58 = 64	CES83 = 83
CES09 = 29	CES34 = 75	CES59 = 84	CES84 = 93
CES10 = 79	CES35 = 88	CES60 = 89	CES85 = 81
CES11 = 62	CES36 = 78	CES61 = 84	CES86 = 55
CES12 = 68	CES37 = 82	CES62 = 68	CES87 = 79
CES13 = 45	CES38 = 54	CES63 = 68	CES88 = 72
CES14 = 75	CES39 = 90	CES64 = 69	CES89 = 62
CES15 = 72	CES40 = 86	CES65 = 66	CES90 = 67
CES16 = 49	CES41 = 75	CES66 = 64	CES91 = 89
CES17 = 51	CES42 = 83	CES67 = 63	CES92 = 67
CES18 = 57	CES43 = 68	CES68 = 71	CES93 = 78
CES19 = 74	CES44 = 98	CES69 = 81	CES94 = 52
CES20 = 68	CES45 = 76	CES70 = 65	CES95 = 76
CES21 = 89	CES46 = 68	CES71 = 64	CES96 = 78
CES22 = 81	CES47 = 60	CES72 = 88	CES97 = 76
CES23 = 92	CES48 = 47	CES73 = 59	CES98 = 71
CES24 = 92	CES49 = 65	CES74 = 85	CES99 = 65
CES25 = 74	CES50 = 74	CES75 = 66	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)