

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: P1049917

Luminaire Tested: **GALN-SA7A-927-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049917
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-927-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 7xLight Square PACKAGE
90CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (98) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14195.5 lumens
Efficiency: N/A
Efficacy: 73.5 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

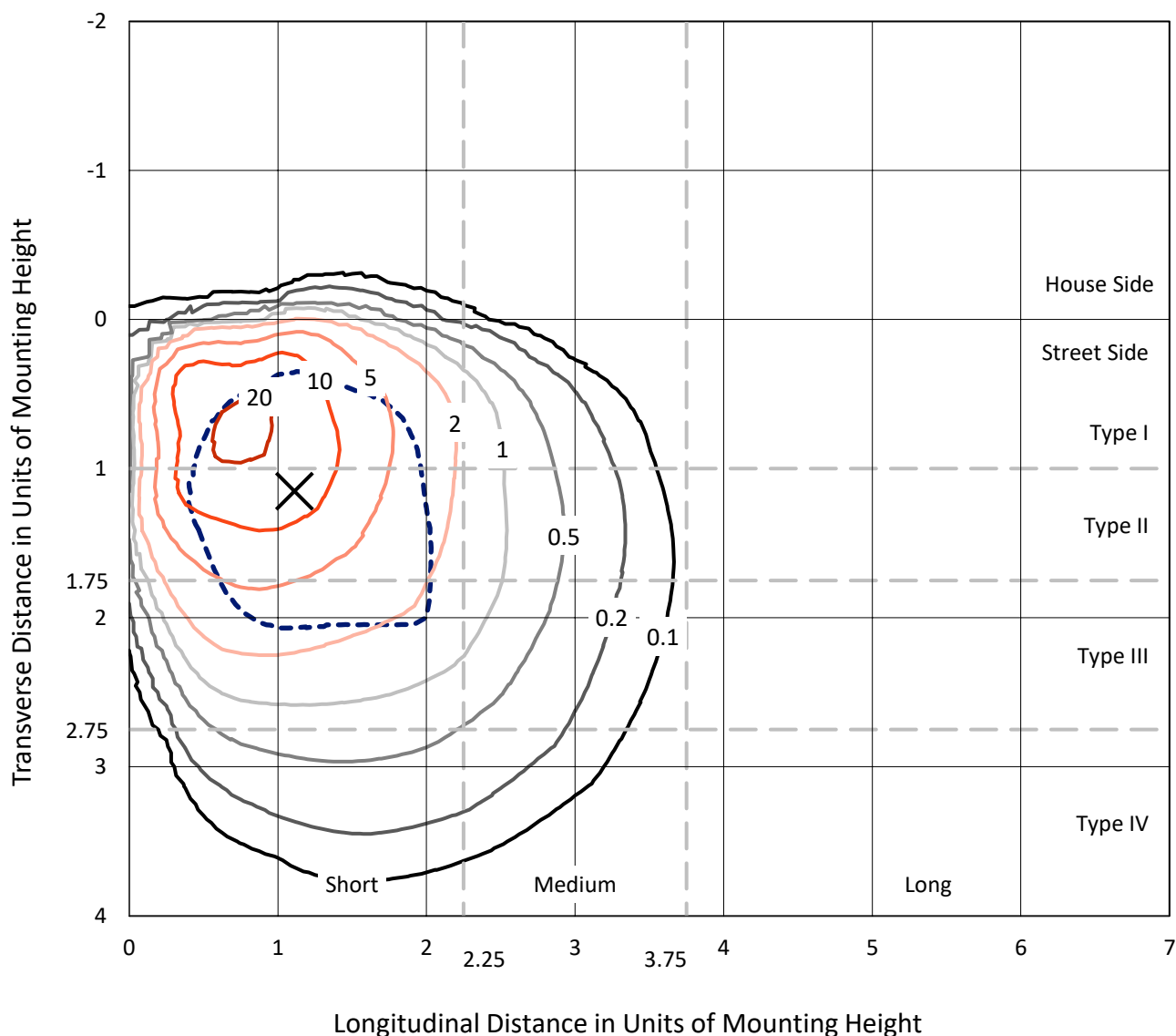
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

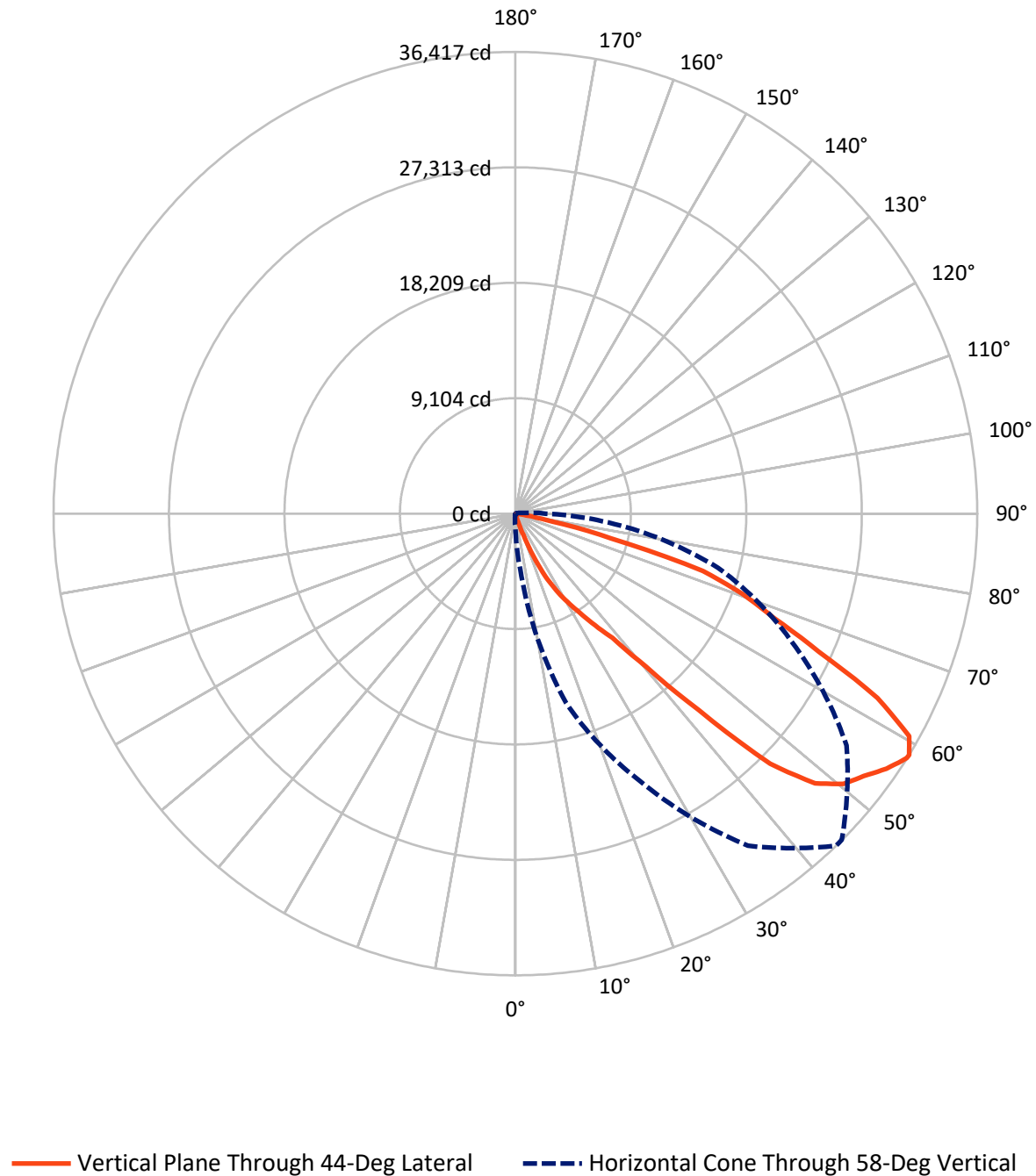


Based on 20 foot mounting height. Maximum calculated value = 24.7 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	96.9	0.0	96.9
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	14098.6	0.0	14098.6
	% Fixture	99.3	0.0	99.3
Total	Lumens	14195.5	0.0	14195.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	0.0
10°-20°	31.1	0.2
20°-30°	336.3	2.4
30°-40°	994.5	7.0
40°-50°	2964.3	20.9
50°-60°	4703.5	33.1
60°-70°	3923.3	27.6
70°-80°	1210.0	8.5
80°-90°	26.9	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°	14195.5	100.0
0°-180°	14195.5	100.0



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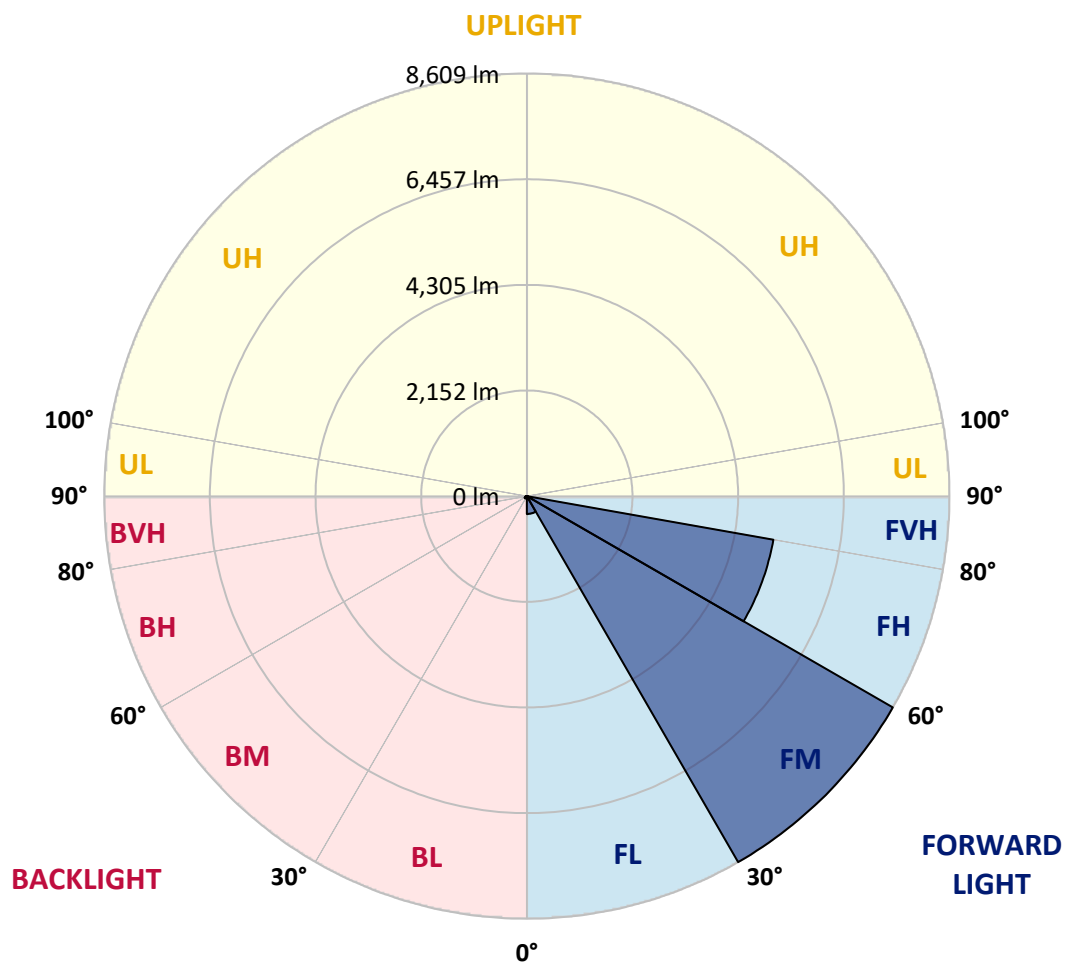
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	363.5	2.6			
FM	(30°-60°)	8609.3	60.6			
FH	(60°-80°)	5100.2	35.9			G3/7500
FVH	(80°-90°)	25.6	0.2			G1/100
BL	(0°-30°)	9.5	0.1	B0/110		
BM	(30°-60°)	53.1	0.4	B0/220		
BH	(60°-80°)	33.1	0.2	B0/110		G0/110
BVH	(80°-90°)	1.3	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°
0°	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
2.5°	80.4	80.4	77.2	72.9	68.6	64.3	63.3	61.1	60.1	59.0
5°	83.6	83.6	82.6	79.4	75.1	71.8	71.8	68.6	66.5	64.3
7.5°	85.8	86.9	89.0	87.9	85.8	82.6	82.6	80.4	77.2	71.8
10°	89.0	92.2	96.5	98.7	99.7	99.7	98.7	97.6	92.2	84.7
12.5°	92.2	98.7	109.4	120.1	126.5	135.1	134.0	131.9	118.0	101.9
15°	98.7	108.3	130.8	161.9	210.2	240.2	252.0	241.3	195.2	137.3
17.5°	106.2	122.2	189.8	338.9	555.5	658.4	720.6	670.2	444.0	260.6
20°	113.7	149.1	352.8	878.3	1441.2	1778.0	1871.3	1725.4	1107.7	496.5
22.5°	126.5	209.1	715.3	1815.5	3105.5	3610.6	3706.0	3239.6	2092.2	980.1
25°	153.3	303.5	1233.2	2958.6	4634.7	5487.2	5447.5	4836.3	3394.0	1565.6
27.5°	192.0	441.8	1864.8	4203.6	6099.5	6851.2	6941.3	6185.3	4524.2	2302.3
30°	247.7	612.3	2542.5	5200.9	7273.8	8086.6	8101.6	7319.9	5535.5	2949.0
32.5°	301.3	773.2	3135.6	6164.9	8430.8	9321.9	9388.4	8426.5	6290.4	3622.4
35°	342.1	878.3	3736.1	7012.1	9597.5	10825.4	10821.1	9679.0	7184.7	4224.0
37.5°	345.3	983.3	4279.8	7878.6	11075.2	12450.0	12586.2	11327.2	8265.7	4968.2
40°	337.8	1101.3	4968.2	9229.7	13737.9	15847.2	15967.3	14380.2	10434.0	6242.2
42.5°	346.4	1306.1	6085.6	11725.1	18159.2	21188.6	21420.2	19751.6	14419.9	8841.5
45°	391.4	1691.1	8426.5	15899.7	24461.4	28154.6	28077.4	25674.2	19057.8	12798.5
47.5°	540.5	2633.7	11896.7	19962.9	28489.1	31778.0	31844.5	28907.4	21764.4	15840.8
50°	831.1	4029.9	14812.4	22110.8	30221.0	33520.6	33458.4	30064.4	22792.8	17338.8
52.5°	1080.9	5040.0	16275.1	22864.7	30443.0	34381.7	34377.4	30369.0	22952.6	17467.5
55°	1143.1	5116.2	16286.9	22905.4	30940.5	35508.7	35650.3	31118.5	23159.6	16905.6
57.5°	1118.5	4529.6	15607.0	23141.3	31826.3	36380.6	36388.1	31844.5	23685.0	16561.4
58°	1097.0	4437.4	15469.7	23275.4	31978.6	36417.0	36398.8	31877.8	24112.9	16548.5
60°	976.9	3853.0	14934.6	23617.4	31752.3	35668.5	35498.0	31151.8	24049.6	16416.6
62.5°	767.8	3005.8	14408.1	23221.8	29326.6	32045.1	32115.8	27579.8	21924.2	15647.7
65°	611.2	2240.1	13310.0	20369.3	24149.3	26315.5	26579.3	22427.1	18299.7	13250.0
67.5°	486.8	1619.2	11165.3	16217.2	19109.3	21962.8	22154.8	18829.4	14177.5	10151.9
70°	395.7	1094.9	7707.0	11860.2	15761.4	18969.9	18981.7	15642.4	10582.0	6651.8
72.5°	350.7	758.2	4473.8	8649.6	12780.3	15457.9	15145.9	12693.4	8132.7	3939.8
75°	303.5	502.9	2194.0	5287.8	7748.8	7801.4	7920.4	5888.3	4065.3	1873.4
77.5°	249.9	357.1	864.3	1444.5	2323.8	2974.7	3085.2	2337.7	1352.2	461.1
80°	171.6	169.4	232.7	442.9	664.9	833.2	777.5	601.6	353.9	176.9
82.5°	74.0	80.4	105.1	126.5	102.9	99.7	95.4	61.1	47.2	36.5
85°	23.6	21.4	22.5	22.5	18.2	13.9	13.9	6.4	0.0	0.0
87.5°	11.8	9.7	9.7	8.6	5.4	2.1	1.1	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
62.2	0°	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
57.9	2.5°	56.8	56.8	54.7	52.5	51.5	49.3	48.3	47.2	46.1	45.0
62.2	5°	60.1	59.0	55.8	52.5	49.3	46.1	44.0	41.8	39.7	38.6
68.6	7.5°	65.4	63.3	56.8	51.5	47.2	42.9	40.7	37.5	35.4	32.2
76.1	10°	71.8	67.6	59.0	52.5	46.1	40.7	37.5	34.3	31.1	26.8
86.9	12.5°	80.4	72.9	62.2	51.5	44.0	37.5	34.3	30.0	26.8	23.6
100.8	15°	87.9	78.3	63.3	51.5	41.8	34.3	30.0	25.7	22.5	18.2
126.5	17.5°	98.7	82.6	62.2	48.3	38.6	30.0	25.7	22.5	17.2	10.7
187.7	20°	116.9	85.8	60.1	45.0	33.2	24.7	19.3	15.0	7.5	2.1
282.0	22.5°	145.8	94.4	57.9	40.7	29.0	19.3	12.9	5.4	0.0	0.0
428.9	25°	201.6	109.4	57.9	38.6	25.7	13.9	4.3	0.0	0.0	0.0
609.1	27.5°	268.1	129.8	57.9	33.2	20.4	7.5	0.0	0.0	0.0	0.0
830.0	30°	335.6	152.3	57.9	29.0	16.1	1.1	0.0	0.0	0.0	0.0
1022.0	32.5°	400.0	171.6	59.0	24.7	10.7	0.0	0.0	0.0	0.0	0.0
1287.9	35°	465.4	174.8	57.9	21.4	6.4	0.0	0.0	0.0	0.0	0.0
1613.9	37.5°	549.0	168.4	54.7	19.3	3.2	0.0	0.0	0.0	0.0	0.0
2123.3	40°	675.6	171.6	51.5	18.2	1.1	0.0	0.0	0.0	0.0	0.0
3031.5	42.5°	909.4	185.5	47.2	18.2	0.0	0.0	0.0	0.0	0.0	0.0
4828.8	45°	1572.1	248.8	42.9	19.3	0.0	0.0	0.0	0.0	0.0	0.0
7249.1	47.5°	2600.5	447.2	41.8	19.3	0.0	0.0	0.0	0.0	0.0	0.0
8732.2	50°	3318.9	563.0	44.0	20.4	0.0	0.0	0.0	0.0	0.0	0.0
8917.7	52.5°	3313.6	627.3	46.1	21.4	4.3	0.0	0.0	0.0	0.0	0.0
8219.6	55°	2945.7	639.1	49.3	23.6	13.9	0.0	0.0	0.0	0.0	0.0
7063.6	57.5°	2462.1	583.4	56.8	29.0	25.7	0.0	0.0	0.0	0.0	0.0
6882.3	58°	2376.3	557.6	59.0	30.0	27.9	0.0	0.0	0.0	0.0	0.0
5969.8	60°	1947.4	454.7	75.1	37.5	37.5	0.0	0.0	0.0	0.0	0.0
4894.2	62.5°	1344.7	396.8	85.8	48.3	38.6	0.0	0.0	0.0	0.0	0.0
3608.5	65°	951.2	358.2	93.3	51.5	31.1	0.0	0.0	0.0	0.0	0.0
2564.0	67.5°	711.0	330.3	102.9	52.5	16.1	0.0	0.0	0.0	0.0	0.0
1608.5	70°	544.8	309.9	126.5	55.8	4.3	0.0	0.0	0.0	0.0	0.0
958.7	72.5°	444.0	286.3	153.3	57.9	0.0	0.0	0.0	0.0	0.0	0.0
574.8	75°	367.8	258.4	148.0	63.3	0.0	0.0	0.0	0.0	0.0	0.0
306.7	77.5°	244.5	200.5	135.1	63.3	0.0	0.0	0.0	0.0	0.0	0.0
109.4	80°	85.8	79.4	105.1	55.8	0.0	0.0	0.0	0.0	0.0	0.0
22.5	82.5°	12.9	10.7	15.0	19.3	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

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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
62.2	0°	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
44.0	2.5°	44.0	44.0	42.9	44.0	44.0	46.1	51.5	59.0	67.6	70.8
37.5	5°	36.5	35.4	34.3	34.3	34.3	37.5	41.8	50.4	60.1	64.3
31.1	7.5°	30.0	29.0	27.9	26.8	26.8	29.0	34.3	44.0	53.6	57.9
25.7	10°	24.7	22.5	21.4	20.4	20.4	22.5	27.9	37.5	48.3	52.5
21.4	12.5°	20.4	17.2	15.0	13.9	12.9	16.1	21.4	30.0	41.8	47.2
16.1	15°	13.9	10.7	7.5	6.4	5.4	8.6	13.9	23.6	35.4	41.8
8.6	17.5°	7.5	3.2	1.1	0.0	0.0	2.1	6.4	17.2	29.0	34.3
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	21.4	26.8
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	12.9	18.2
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	9.7
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
0.0	30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	8.6
0.0	90°	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):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
62.2	0°	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
74.0	2.5°	76.1	75.1	72.9	70.8	70.8	70.8	74.0	77.2	80.4	80.4
66.5	5°	70.8	70.8	69.7	67.6	67.6	68.6	72.9	78.3	82.6	83.6
61.1	7.5°	65.4	67.6	65.4	64.3	65.4	66.5	70.8	77.2	83.6	85.8
56.8	10°	62.2	63.3	63.3	62.2	62.2	64.3	68.6	77.2	85.8	89.0
51.5	12.5°	57.9	60.1	59.0	59.0	59.0	61.1	66.5	76.1	87.9	92.2
46.1	15°	53.6	56.8	56.8	55.8	55.8	56.8	64.3	75.1	91.1	98.7
39.7	17.5°	49.3	52.5	53.6	51.5	51.5	53.6	61.1	75.1	93.3	106.2
32.2	20°	40.7	46.1	49.3	46.1	46.1	48.3	55.8	70.8	94.4	113.7
23.6	22.5°	32.2	37.5	41.8	40.7	40.7	41.8	51.5	67.6	95.4	126.5
13.9	25°	23.6	29.0	32.2	34.3	34.3	37.5	47.2	65.4	99.7	153.3
6.4	27.5°	13.9	20.4	24.7	26.8	27.9	32.2	44.0	63.3	107.2	192.0
0.0	30°	6.4	11.8	17.2	21.4	21.4	29.0	40.7	61.1	116.9	247.7
0.0	32.5°	0.0	5.4	8.6	15.0	16.1	23.6	37.5	59.0	130.8	301.3
0.0	35°	0.0	0.0	4.3	11.8	11.8	19.3	34.3	56.8	152.3	342.1
0.0	37.5°	0.0	0.0	0.0	8.6	9.7	17.2	33.2	55.8	156.6	345.3
0.0	40°	0.0	0.0	0.0	6.4	7.5	16.1	33.2	56.8	141.6	337.8
0.0	42.5°	0.0	0.0	0.0	4.3	5.4	16.1	33.2	59.0	127.6	346.4
0.0	45°	0.0	0.0	0.0	3.2	4.3	17.2	32.2	57.9	120.1	391.4
0.0	47.5°	0.0	0.0	0.0	4.3	6.4	17.2	31.1	56.8	121.2	540.5
0.0	50°	0.0	0.0	0.0	5.4	7.5	17.2	32.2	54.7	133.0	831.1
0.0	52.5°	0.0	0.0	0.0	4.3	6.4	19.3	35.4	53.6	144.8	1080.9
0.0	55°	0.0	0.0	0.0	1.1	3.2	24.7	38.6	53.6	163.0	1143.1
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	27.9	44.0	56.8	193.0	1118.5
0.0	58°	0.0	0.0	0.0	0.0	0.0	27.9	45.0	56.8	195.2	1097.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	27.9	49.3	63.3	210.2	976.9
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	23.6	59.0	79.4	218.8	767.8
0.0	65°	0.0	0.0	0.0	0.0	0.0	19.3	69.7	86.9	225.2	611.2
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	18.2	71.8	87.9	228.4	486.8
0.0	70°	0.0	0.0	0.0	0.0	0.0	19.3	70.8	94.4	239.1	395.7
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	21.4	64.3	104.0	239.1	350.7
0.0	75°	0.0	0.0	0.0	0.0	0.0	22.5	60.1	116.9	217.7	303.5
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	21.4	59.0	136.2	194.1	249.9
0.0	80°	2.1	3.2	3.2	2.1	2.1	18.2	57.9	138.3	165.1	171.6
1.1	82.5°	6.4	8.6	7.5	5.4	5.4	16.1	51.5	115.8	85.8	74.0
6.4	85°	11.8	13.9	13.9	11.8	11.8	15.0	32.2	41.8	29.0	23.6
11.8	87.5°	16.1	18.2	18.2	16.1	16.1	15.0	13.9	12.9	11.8	11.8
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: SP1-2407-184-13

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-927-U-5WQ

Data in this report applies to families of products including GSS-SB1A-927-U-5WQ

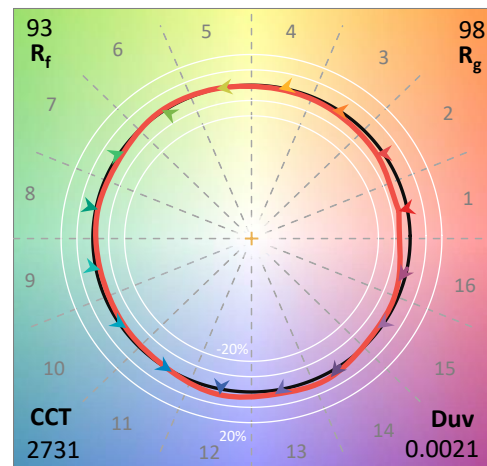
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-13
 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-927-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K): 2731
 CIE u' : 0.2605
 CIE v' : 0.5298
 Duv: 0.0021
 CIE x: 0.4610
 CIE y: 0.4166
 CIE z: 0.1224
 Peak Wavelength (nm): 622
 Dominant Wavelength (nm): 583
 Purity: 63.43685
 R_f: 92.6
 R_g: 98

CRI (Ra): 91.8
 R1: 91.4
 R2: 95.1
 R3: 97.6
 R4: 92.3
 R5: 91.1
 R6: 94.7
 R7: 92.3
 R8: 80.0
 R9: 54.7
 R10: 87.7
 R11: 92.9
 R12: 84.0
 R13: 92.2
 R14: 97.8
 R15: 86.8



Test Conditions

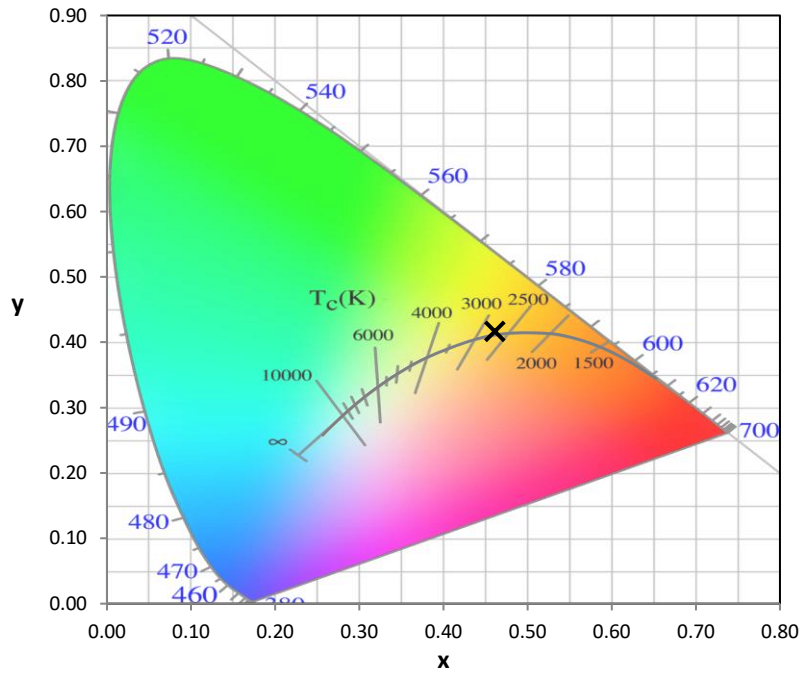
Stabilization Time: M
 Operation Time: 1H 0M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-13

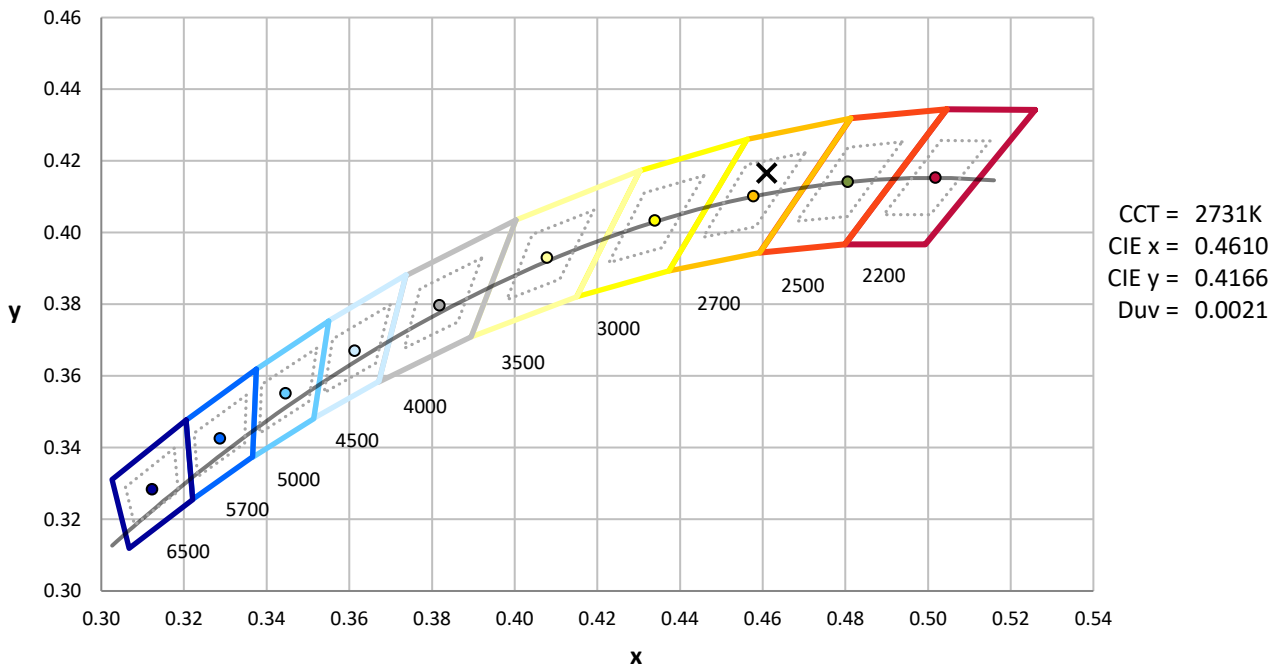
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



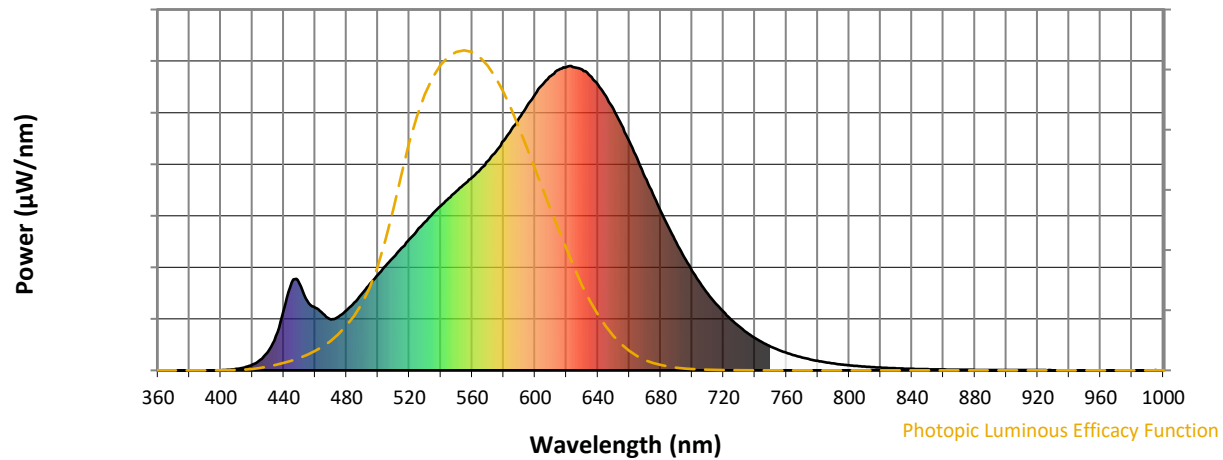
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-13

Photopic Flux vs. Wavelength

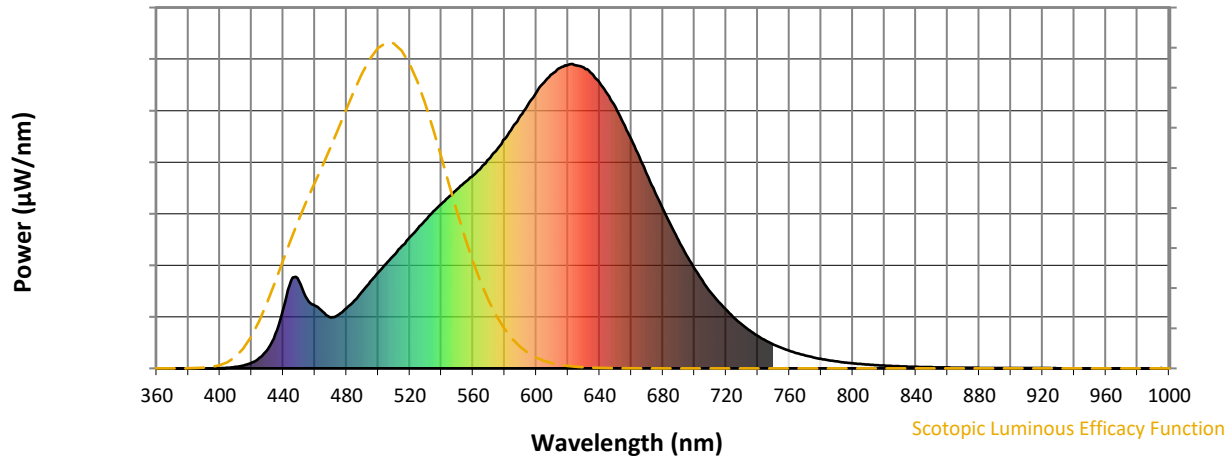


Photopic Lumens: NR

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	253	NR	620	997	NR	750	78	NR	880	2	NR
365	0	NR	495	285	NR	625	996	NR	755	67	NR	885	1	NR
370	0	NR	500	314	NR	630	989	NR	760	58	NR	890	1	NR
375	0	NR	505	343	NR	635	969	NR	765	50	NR	895	1	NR
380	0	NR	510	372	NR	640	939	NR	770	42	NR	900	1	NR
385	0	NR	515	401	NR	645	901	NR	775	36	NR	905	1	NR
390	0	NR	520	431	NR	650	858	NR	780	31	NR	910	1	NR
395	0	NR	525	459	NR	655	806	NR	785	26	NR	915	1	NR
400	0	NR	530	488	NR	660	752	NR	790	23	NR	920	1	NR
405	2	NR	535	516	NR	665	696	NR	795	19	NR	925	1	NR
410	5	NR	540	540	NR	670	636	NR	800	17	NR	930	0	NR
415	10	NR	545	566	NR	675	579	NR	805	14	NR	935	0	NR
420	19	NR	550	589	NR	680	524	NR	810	12	NR	940	0	NR
425	34	NR	555	612	NR	685	470	NR	815	11	NR	945	0	NR
430	61	NR	560	634	NR	690	421	NR	820	9	NR	950	0	NR
435	113	NR	565	660	NR	695	371	NR	825	8	NR	955	0	NR
440	198	NR	570	688	NR	700	327	NR	830	7	NR	960	0	NR
445	288	NR	575	719	NR	705	288	NR	835	6	NR	965	0	NR
450	286	NR	580	754	NR	710	251	NR	840	5	NR	970	0	NR
455	228	NR	585	791	NR	715	220	NR	845	4	NR	975	0	NR
460	207	NR	590	831	NR	720	192	NR	850	4	NR	980	0	NR
465	186	NR	595	870	NR	725	166	NR	855	3	NR	985	0	NR
470	168	NR	600	907	NR	730	144	NR	860	3	NR	990	1	NR
475	177	NR	605	940	NR	735	124	NR	865	2	NR	995	1	NR
480	198	NR	610	967	NR	740	106	NR	870	2	NR	1000	0	NR
485	223	NR	615	988	NR	745	91	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-13

Scotopic Flux vs. Wavelength



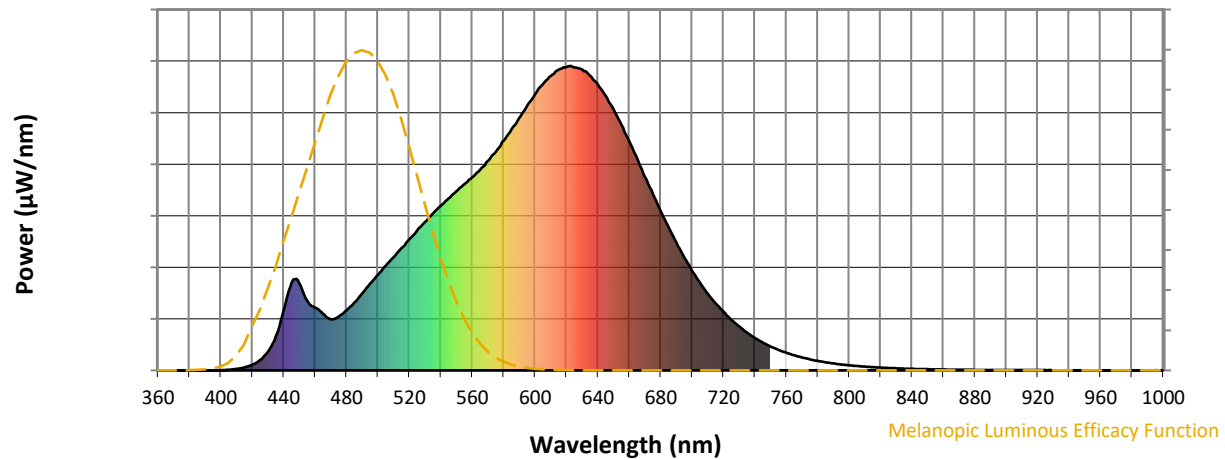
Scotopic Lumens: NR

S/P: 1.27

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	253	NR	620	997	NR	750	78	NR	880	2	NR
365	0	NR	495	285	NR	625	996	NR	755	67	NR	885	1	NR
370	0	NR	500	314	NR	630	989	NR	760	58	NR	890	1	NR
375	0	NR	505	343	NR	635	969	NR	765	50	NR	895	1	NR
380	0	NR	510	372	NR	640	939	NR	770	42	NR	900	1	NR
385	0	NR	515	401	NR	645	901	NR	775	36	NR	905	1	NR
390	0	NR	520	431	NR	650	858	NR	780	31	NR	910	1	NR
395	0	NR	525	459	NR	655	806	NR	785	26	NR	915	1	NR
400	0	NR	530	488	NR	660	752	NR	790	23	NR	920	1	NR
405	2	NR	535	516	NR	665	696	NR	795	19	NR	925	1	NR
410	5	NR	540	540	NR	670	636	NR	800	17	NR	930	0	NR
415	10	NR	545	566	NR	675	579	NR	805	14	NR	935	0	NR
420	19	NR	550	589	NR	680	524	NR	810	12	NR	940	0	NR
425	34	NR	555	612	NR	685	470	NR	815	11	NR	945	0	NR
430	61	NR	560	634	NR	690	421	NR	820	9	NR	950	0	NR
435	113	NR	565	660	NR	695	371	NR	825	8	NR	955	0	NR
440	198	NR	570	688	NR	700	327	NR	830	7	NR	960	0	NR
445	288	NR	575	719	NR	705	288	NR	835	6	NR	965	0	NR
450	286	NR	580	754	NR	710	251	NR	840	5	NR	970	0	NR
455	228	NR	585	791	NR	715	220	NR	845	4	NR	975	0	NR
460	207	NR	590	831	NR	720	192	NR	850	4	NR	980	0	NR
465	186	NR	595	870	NR	725	166	NR	855	3	NR	985	0	NR
470	168	NR	600	907	NR	730	144	NR	860	3	NR	990	1	NR
475	177	NR	605	940	NR	735	124	NR	865	2	NR	995	1	NR
480	198	NR	610	967	NR	740	106	NR	870	2	NR	1000	0	NR
485	223	NR	615	988	NR	745	91	NR	875	2	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.38

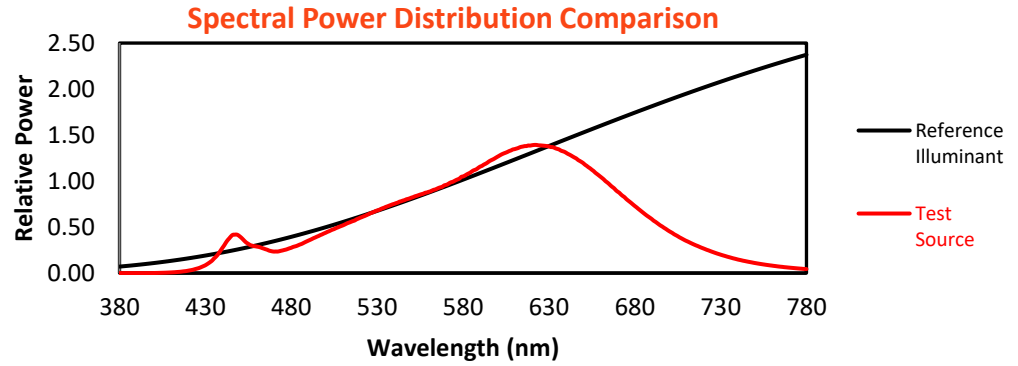
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	253	NR	620	997	NR	750	78	NR	880	2	NR
365	0	NR	495	285	NR	625	996	NR	755	67	NR	885	1	NR
370	0	NR	500	314	NR	630	989	NR	760	58	NR	890	1	NR
375	0	NR	505	343	NR	635	969	NR	765	50	NR	895	1	NR
380	0	NR	510	372	NR	640	939	NR	770	42	NR	900	1	NR
385	0	NR	515	401	NR	645	901	NR	775	36	NR	905	1	NR
390	0	NR	520	431	NR	650	858	NR	780	31	NR	910	1	NR
395	0	NR	525	459	NR	655	806	NR	785	26	NR	915	1	NR
400	0	NR	530	488	NR	660	752	NR	790	23	NR	920	1	NR
405	2	NR	535	516	NR	665	696	NR	795	19	NR	925	1	NR
410	5	NR	540	540	NR	670	636	NR	800	17	NR	930	0	NR
415	10	NR	545	566	NR	675	579	NR	805	14	NR	935	0	NR
420	19	NR	550	589	NR	680	524	NR	810	12	NR	940	0	NR
425	34	NR	555	612	NR	685	470	NR	815	11	NR	945	0	NR
430	61	NR	560	634	NR	690	421	NR	820	9	NR	950	0	NR
435	113	NR	565	660	NR	695	371	NR	825	8	NR	955	0	NR
440	198	NR	570	688	NR	700	327	NR	830	7	NR	960	0	NR
445	288	NR	575	719	NR	705	288	NR	835	6	NR	965	0	NR
450	286	NR	580	754	NR	710	251	NR	840	5	NR	970	0	NR
455	228	NR	585	791	NR	715	220	NR	845	4	NR	975	0	NR
460	207	NR	590	831	NR	720	192	NR	850	4	NR	980	0	NR
465	186	NR	595	870	NR	725	166	NR	855	3	NR	985	0	NR
470	168	NR	600	907	NR	730	144	NR	860	3	NR	990	1	NR
475	177	NR	605	940	NR	735	124	NR	865	2	NR	995	1	NR
480	198	NR	610	967	NR	740	106	NR	870	2	NR	1000	0	NR
485	223	NR	615	988	NR	745	91	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-13

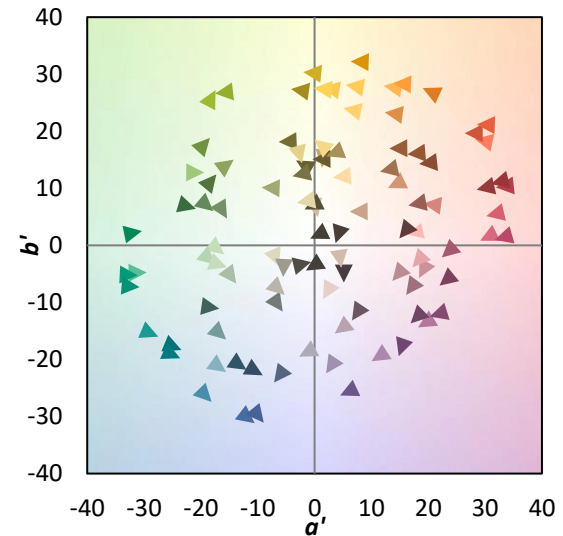
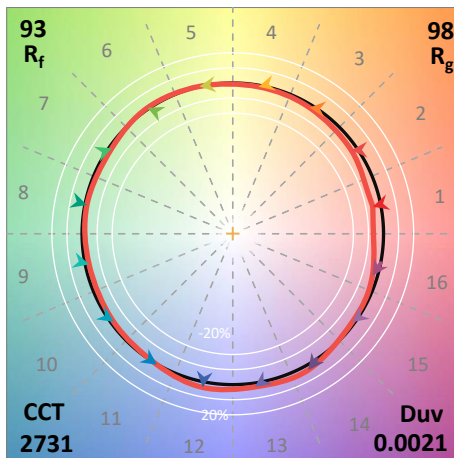
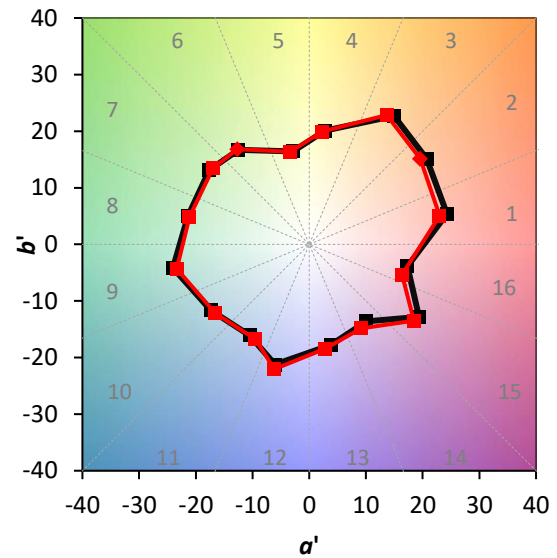
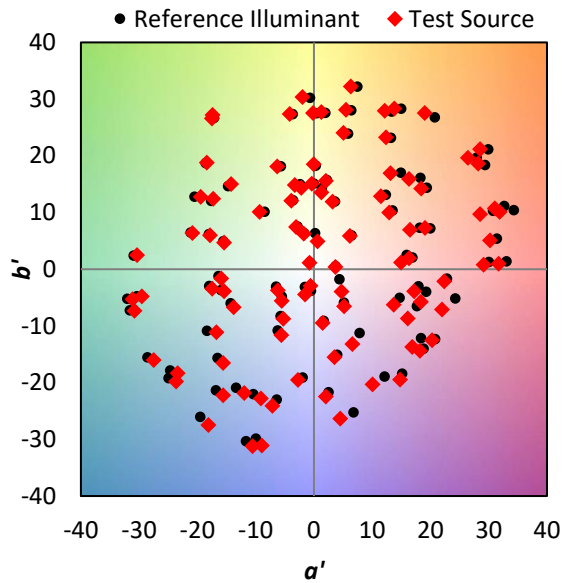
TM-30-18

Summary

$R_f = 92.6$
 $R_g = 98$
 $CIE R_a = 91.8$
 $R_9 = 54.7$

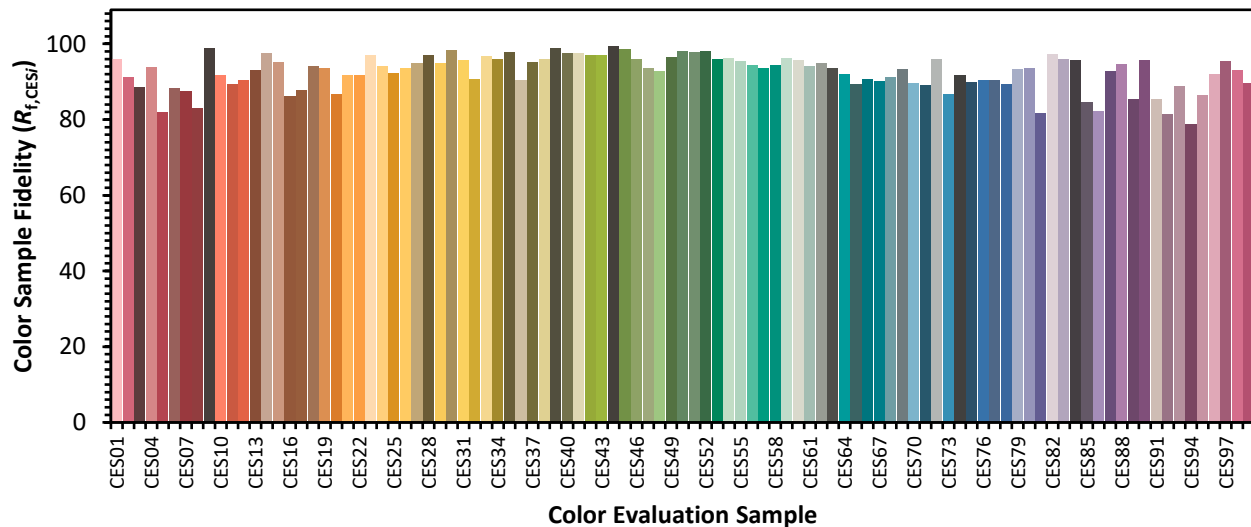


Color Vector Graphics

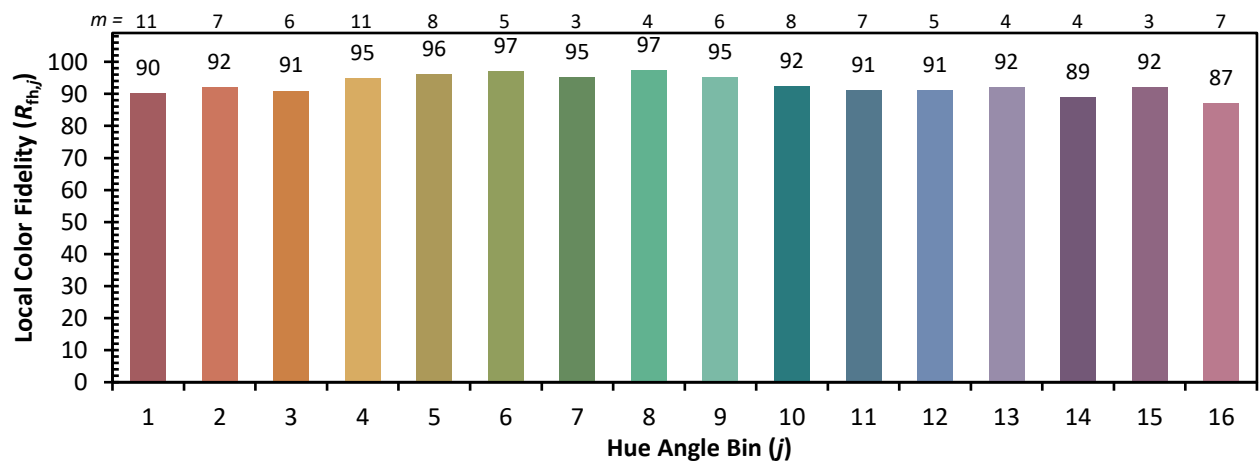
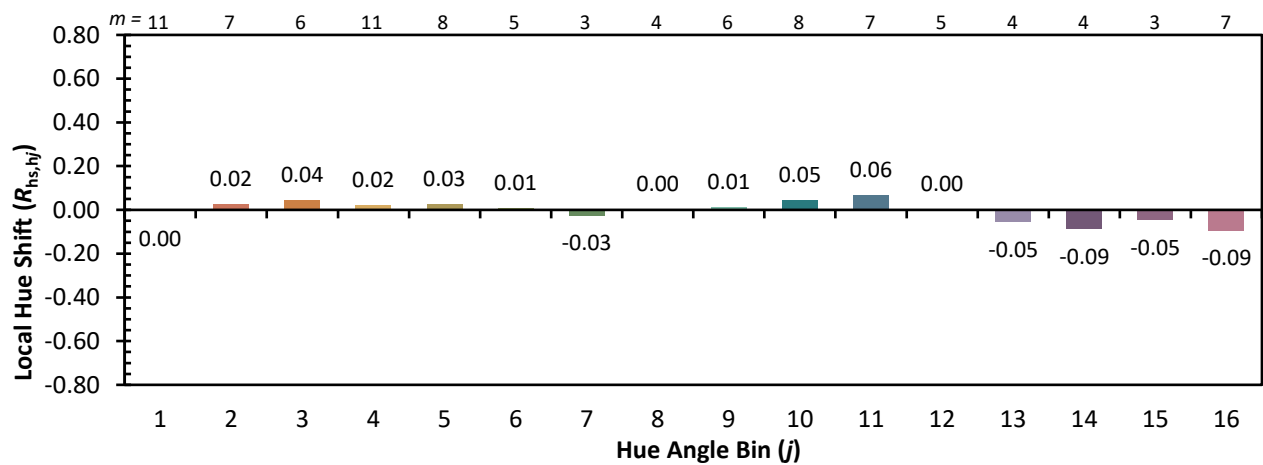
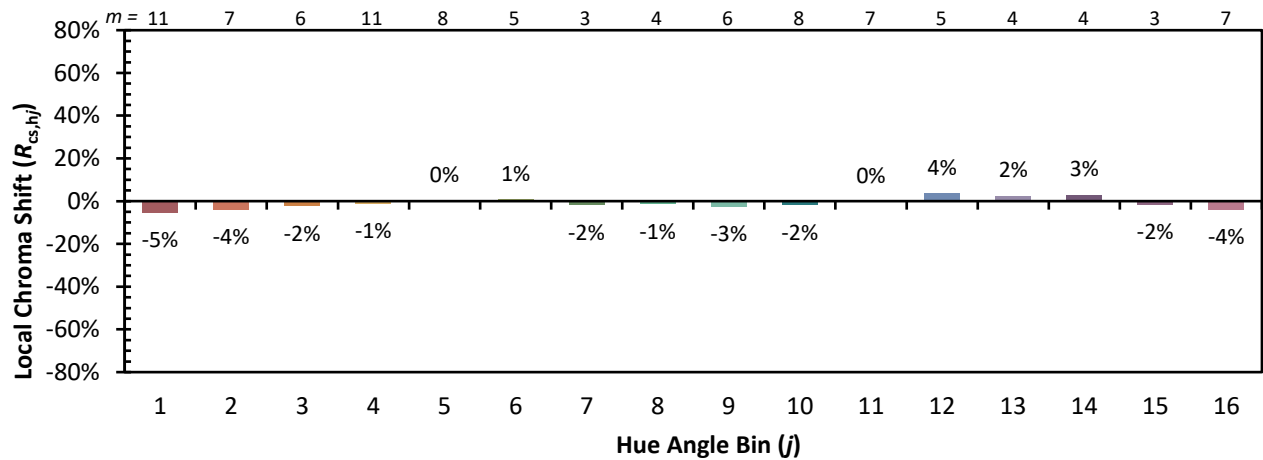


Individual Sample Fidelity Index ($R_{f,i}$)

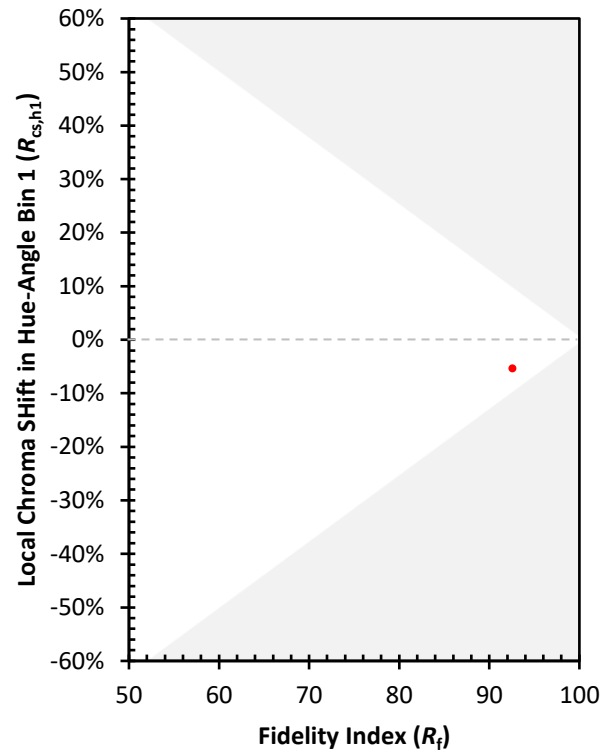
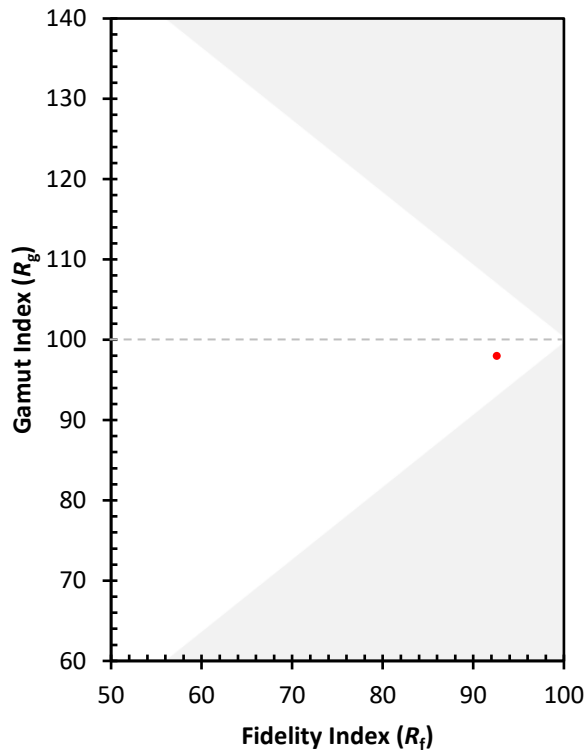
CES01 = 86	CES26 = 94	CES51 = 98	CES76 = 90
CES02 = 64	CES27 = 95	CES52 = 98	CES77 = 90
CES03 = 32	CES28 = 97	CES53 = 96	CES78 = 89
CES04 = 71	CES29 = 95	CES54 = 96	CES79 = 93
CES05 = 51	CES30 = 98	CES55 = 95	CES80 = 94
CES06 = 52	CES31 = 96	CES56 = 94	CES81 = 82
CES07 = 44	CES32 = 91	CES57 = 94	CES82 = 97
CES08 = 43	CES33 = 97	CES58 = 94	CES83 = 96
CES09 = 29	CES34 = 96	CES59 = 96	CES84 = 96
CES10 = 77	CES35 = 98	CES60 = 96	CES85 = 85
CES11 = 59	CES36 = 90	CES61 = 94	CES86 = 82
CES12 = 66	CES37 = 95	CES62 = 95	CES87 = 93
CES13 = 44	CES38 = 96	CES63 = 94	CES88 = 95
CES14 = 74	CES39 = 99	CES64 = 92	CES89 = 85
CES15 = 72	CES40 = 98	CES65 = 89	CES90 = 96
CES16 = 48	CES41 = 98	CES66 = 91	CES91 = 85
CES17 = 50	CES42 = 97	CES67 = 90	CES92 = 82
CES18 = 57	CES43 = 97	CES68 = 91	CES93 = 89
CES19 = 72	CES44 = 99	CES69 = 93	CES94 = 79
CES20 = 68	CES45 = 99	CES70 = 90	CES95 = 87
CES21 = 87	CES46 = 96	CES71 = 89	CES96 = 92
CES22 = 79	CES47 = 94	CES72 = 96	CES97 = 96
CES23 = 92	CES48 = 93	CES73 = 87	CES98 = 93
CES24 = 91	CES49 = 96	CES74 = 92	CES99 = 90
CES25 = 72	CES50 = 98	CES75 = 90	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)