

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: P1049925

Luminaire Tested: **GALN-SA9A-927-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049925
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-927-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 9xLight Square PACKAGE
90CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (126) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

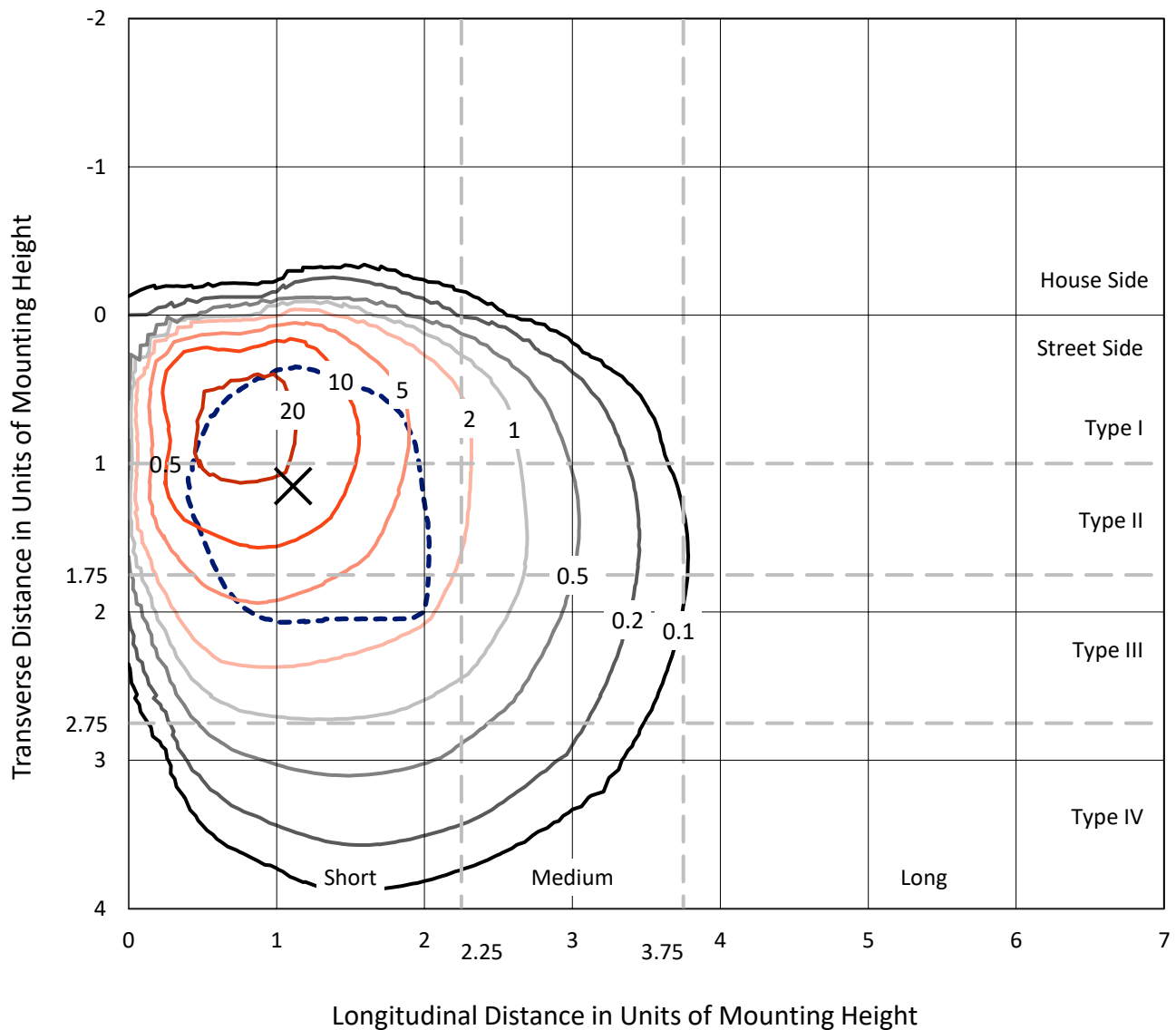
Lumens per Lamp: N/A
Luminaire Lumens: 18348.2 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 244.6
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

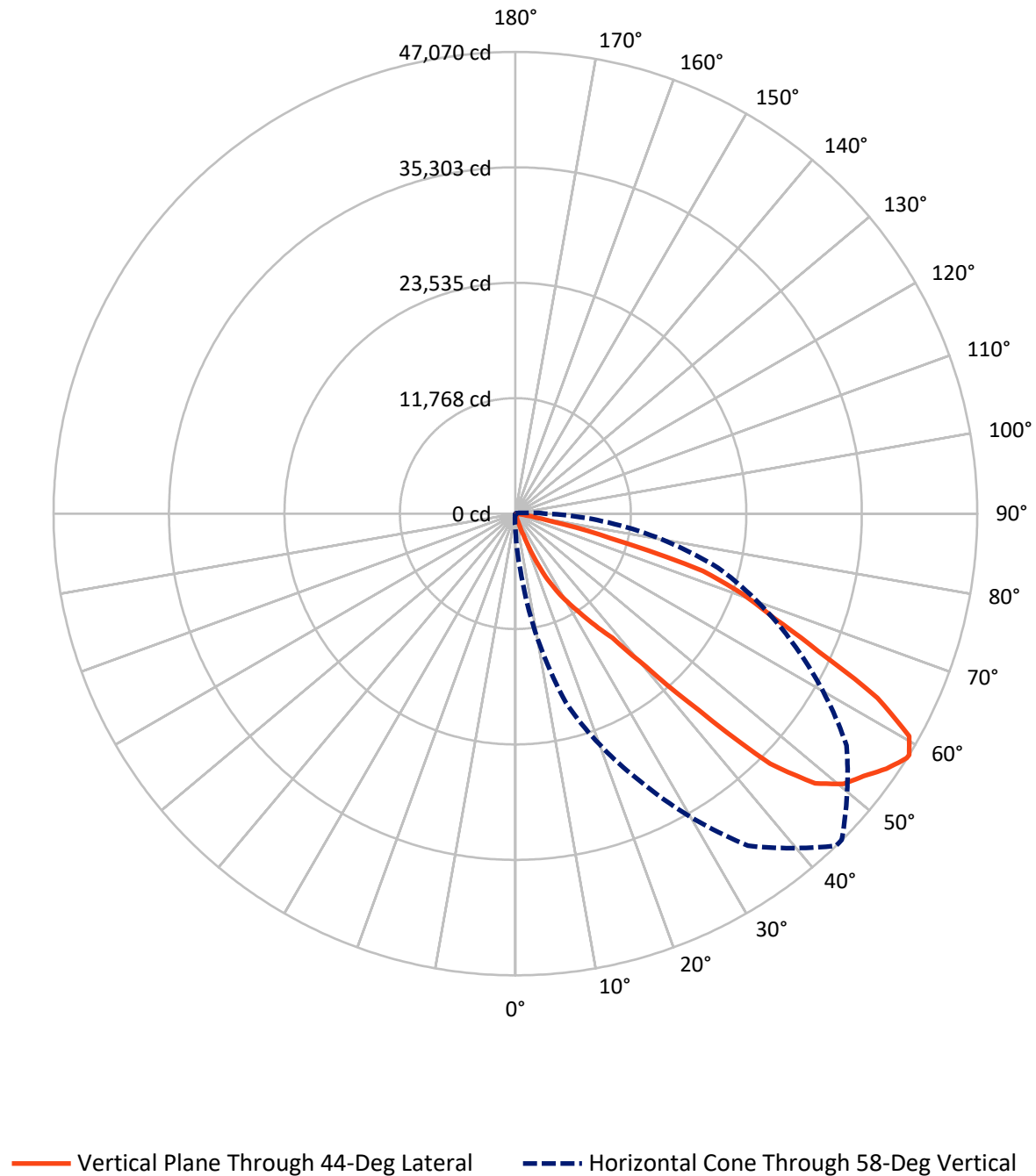
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 31.9 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	125.3	0.0	125.3
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	18222.9	0.0	18222.9
	% Fixture	99.3	0.0	99.3
Total	Lumens	18348.2	0.0	18348.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	0.0
10°-20°	40.2	0.2
20°-30°	434.7	2.4
30°-40°	1285.5	7.0
40°-50°	3831.4	20.9
50°-60°	6079.5	33.1
60°-70°	5071.0	27.6
70°-80°	1564.0	8.5
80°-90°	34.7	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°	18348.2	100.0
0°-180°	18348.2	100.0

Coefficient of Utilization



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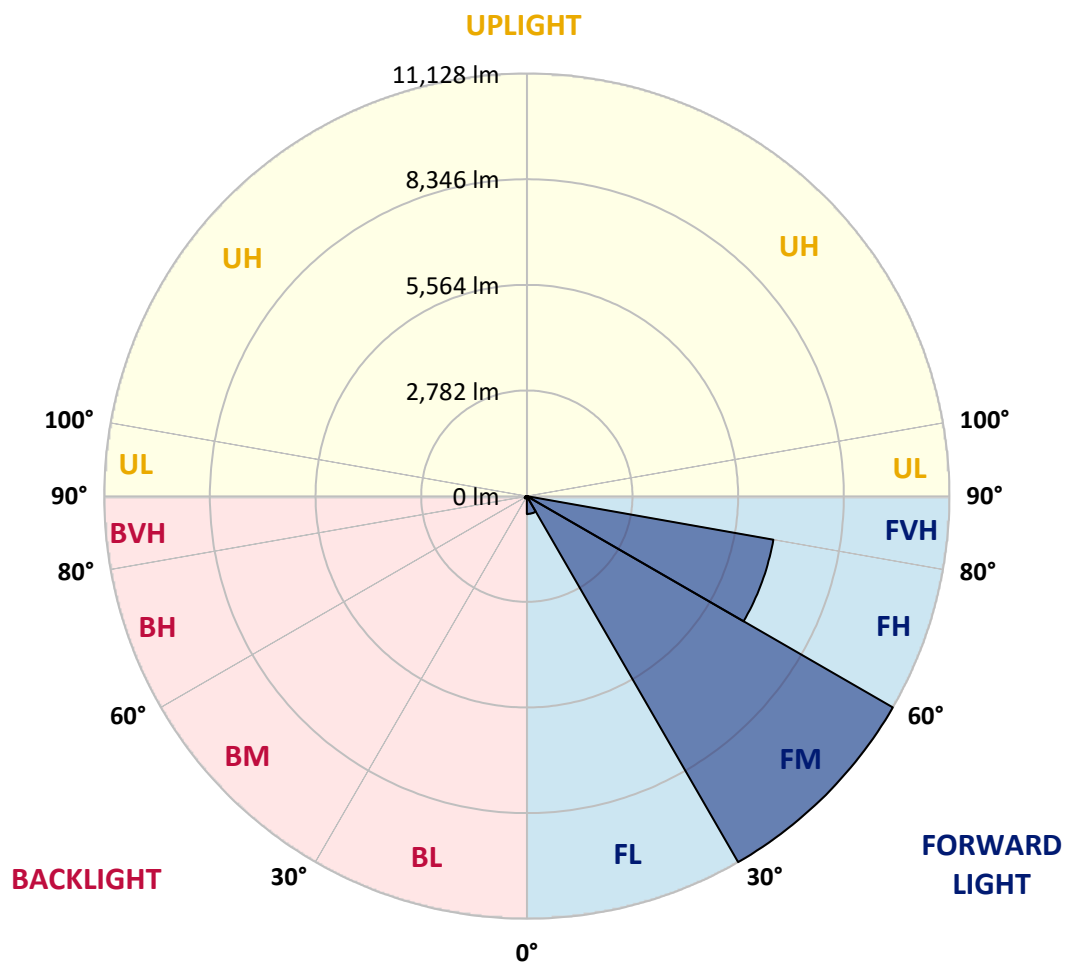
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	469.8	2.6			
FM	(30°-60°)	11127.8	60.6			
FH	(60°-80°)	6592.2	35.9			G3/7500
FVH	(80°-90°)	33.1	0.2			G1/100
BL	(0°-30°)	12.3	0.1	B0/110		
BM	(30°-60°)	68.6	0.4	B0/220		
BH	(60°-80°)	42.8	0.2	B0/110		G0/110
BVH	(80°-90°)	1.7	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°	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
2.5°	104.0	104.0	99.8	94.3	88.7	83.2	81.8	79.0	77.6	76.2
5°	108.1	108.1	106.7	102.6	97.0	92.9	92.9	88.7	85.9	83.2
7.5°	110.9	112.3	115.0	113.7	110.9	106.7	106.7	104.0	99.8	92.9
10°	115.0	119.2	124.7	127.5	128.9	128.9	127.5	126.1	119.2	109.5
12.5°	119.2	127.5	141.4	155.2	163.6	174.6	173.3	170.5	152.5	131.7
15°	127.5	140.0	169.1	209.3	271.7	310.5	325.7	311.9	252.3	177.4
17.5°	137.2	158.0	245.3	438.0	718.0	851.0	931.4	866.3	573.8	336.8
20°	146.9	192.7	456.0	1135.2	1862.8	2298.1	2418.7	2230.2	1431.8	641.7
22.5°	163.6	270.3	924.5	2346.6	4014.0	4666.8	4790.2	4187.3	2704.2	1266.8
25°	198.2	392.3	1594.0	3824.1	5990.5	7092.4	7041.1	6251.1	4386.8	2023.6
27.5°	248.1	571.1	2410.3	5433.3	7883.8	8855.5	8971.9	7994.7	5847.7	2975.8
30°	320.2	791.4	3286.3	6722.3	9401.6	10452.2	10471.6	9461.2	7154.8	3811.6
32.5°	389.5	999.3	4052.8	7968.4	10897.1	12048.9	12134.9	10891.6	8130.6	4682.1
35°	442.1	1135.2	4829.0	9063.4	12405.1	13992.2	13986.6	12510.5	9286.5	5459.6
37.5°	446.3	1271.0	5531.7	10183.3	14315.1	16092.0	16268.1	14640.8	10683.7	6421.6
40°	436.6	1423.5	6421.6	11929.7	17756.7	20483.0	20638.3	18586.9	13486.3	8068.2
42.5°	447.7	1688.2	7865.8	15155.1	23471.4	27386.9	27686.3	25529.6	18638.2	11428.0
45°	505.9	2185.8	10891.6	20550.9	31617.2	36390.7	36290.9	33184.8	24632.9	16542.5
47.5°	698.6	3404.1	15376.8	25802.7	36823.2	41074.2	41160.1	37363.7	28131.3	20474.7
50°	1074.2	5208.8	19145.5	28578.9	39061.6	43326.5	43246.1	38859.3	29460.5	22411.0
52.5°	1397.1	6514.4	21036.1	29553.3	39348.5	44439.5	44434.0	39252.9	29667.0	22577.4
55°	1477.5	6612.8	21051.3	29606.0	39991.7	45896.2	46079.2	40221.8	29934.5	21851.1
57.5°	1445.6	5854.7	20172.6	29910.9	41136.5	47023.1	47032.8	41160.1	30613.7	21406.1
58°	1417.9	5735.5	19995.1	30084.2	41333.4	47070.2	47046.7	41203.1	31166.7	21389.5
60°	1262.7	4980.1	19303.5	30526.3	41040.9	46102.8	45882.4	40264.7	31084.9	21219.0
62.5°	992.4	3885.1	18623.0	30014.9	37905.7	41419.3	41510.8	35647.8	28337.8	20225.2
65°	790.0	2895.5	17203.6	26328.0	31213.8	34013.6	34354.6	28987.8	23652.9	17126.0
67.5°	629.3	2092.9	14431.5	20961.2	24699.4	28387.7	28635.8	24337.6	18325.0	13121.7
70°	511.5	1415.2	9961.5	15329.7	20372.1	24519.2	24534.5	20218.3	13677.5	8597.7
72.5°	453.2	979.9	5782.6	11179.9	16518.9	19979.9	19576.6	16406.7	10511.8	5092.3
75°	392.3	650.1	2835.9	6834.6	10015.6	10083.5	10237.4	7610.8	5254.5	2421.4
77.5°	322.9	461.6	1117.2	1867.0	3003.6	3844.9	3987.7	3021.6	1747.8	596.0
80°	221.8	219.0	300.8	572.4	859.4	1077.0	1004.9	777.6	457.4	228.7
82.5°	95.6	104.0	135.8	163.6	133.1	128.9	123.4	79.0	61.0	47.1
85°	30.5	27.7	29.1	29.1	23.6	18.0	18.0	8.3	0.0	0.0
87.5°	15.2	12.5	12.5	11.1	6.9	2.8	1.4	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
80.4	0°	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
74.8	2.5°	73.5	73.5	70.7	67.9	66.5	63.8	62.4	61.0	59.6	58.2
80.4	5°	77.6	76.2	72.1	67.9	63.8	59.6	56.8	54.1	51.3	49.9
88.7	7.5°	84.5	81.8	73.5	66.5	61.0	55.4	52.7	48.5	45.7	41.6
98.4	10°	92.9	87.3	76.2	67.9	59.6	52.7	48.5	44.4	40.2	34.7
112.3	12.5°	104.0	94.3	80.4	66.5	56.8	48.5	44.4	38.8	34.7	30.5
130.3	15°	113.7	101.2	81.8	66.5	54.1	44.4	38.8	33.3	29.1	23.6
163.6	17.5°	127.5	106.7	80.4	62.4	49.9	38.8	33.3	29.1	22.2	13.9
242.6	20°	151.1	110.9	77.6	58.2	43.0	31.9	24.9	19.4	9.7	2.8
364.5	22.5°	188.5	122.0	74.8	52.7	37.4	24.9	16.6	6.9	0.0	0.0
554.4	25°	260.6	141.4	74.8	49.9	33.3	18.0	5.5	0.0	0.0	0.0
787.3	27.5°	346.5	167.7	74.8	43.0	26.3	9.7	0.0	0.0	0.0	0.0
1072.8	30°	433.8	196.8	74.8	37.4	20.8	1.4	0.0	0.0	0.0	0.0
1320.9	32.5°	517.0	221.8	76.2	31.9	13.9	0.0	0.0	0.0	0.0	0.0
1664.6	35°	601.5	225.9	74.8	27.7	8.3	0.0	0.0	0.0	0.0	0.0
2086.0	37.5°	709.7	217.6	70.7	24.9	4.2	0.0	0.0	0.0	0.0	0.0
2744.4	40°	873.2	221.8	66.5	23.6	1.4	0.0	0.0	0.0	0.0	0.0
3918.4	42.5°	1175.4	239.8	61.0	23.6	0.0	0.0	0.0	0.0	0.0	0.0
6241.4	45°	2031.9	321.6	55.4	24.9	0.0	0.0	0.0	0.0	0.0	0.0
9369.7	47.5°	3361.2	578.0	54.1	24.9	0.0	0.0	0.0	0.0	0.0	0.0
11286.6	50°	4289.8	727.7	56.8	26.3	0.0	0.0	0.0	0.0	0.0	0.0
11526.4	52.5°	4282.9	810.8	59.6	27.7	5.5	0.0	0.0	0.0	0.0	0.0
10624.1	55°	3807.5	826.1	63.8	30.5	18.0	0.0	0.0	0.0	0.0	0.0
9129.9	57.5°	3182.4	754.0	73.5	37.4	33.3	0.0	0.0	0.0	0.0	0.0
8895.7	58°	3071.5	720.7	76.2	38.8	36.0	0.0	0.0	0.0	0.0	0.0
7716.1	60°	2517.1	587.7	97.0	48.5	48.5	0.0	0.0	0.0	0.0	0.0
6325.9	62.5°	1738.1	512.8	110.9	62.4	49.9	0.0	0.0	0.0	0.0	0.0
4664.1	65°	1229.4	462.9	120.6	66.5	40.2	0.0	0.0	0.0	0.0	0.0
3314.0	67.5°	919.0	426.9	133.1	67.9	20.8	0.0	0.0	0.0	0.0	0.0
2079.1	70°	704.1	400.6	163.6	72.1	5.5	0.0	0.0	0.0	0.0	0.0
1239.1	72.5°	573.8	370.1	198.2	74.8	0.0	0.0	0.0	0.0	0.0	0.0
742.9	75°	475.4	334.0	191.3	81.8	0.0	0.0	0.0	0.0	0.0	0.0
396.4	77.5°	316.0	259.2	174.6	81.8	0.0	0.0	0.0	0.0	0.0	0.0
141.4	80°	110.9	102.6	135.8	72.1	0.0	0.0	0.0	0.0	0.0	0.0
29.1	82.5°	16.6	13.9	19.4	24.9	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°
80.4	0°	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
56.8	2.5°	56.8	56.8	55.4	56.8	56.8	59.6	66.5	76.2	87.3	91.5
48.5	5°	47.1	45.7	44.4	44.4	44.4	48.5	54.1	65.1	77.6	83.2
40.2	7.5°	38.8	37.4	36.0	34.7	34.7	37.4	44.4	56.8	69.3	74.8
33.3	10°	31.9	29.1	27.7	26.3	26.3	29.1	36.0	48.5	62.4	67.9
27.7	12.5°	26.3	22.2	19.4	18.0	16.6	20.8	27.7	38.8	54.1	61.0
20.8	15°	18.0	13.9	9.7	8.3	6.9	11.1	18.0	30.5	45.7	54.1
11.1	17.5°	9.7	4.2	1.4	0.0	0.0	2.8	8.3	22.2	37.4	44.4
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	27.7	34.7
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	16.6	23.6
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	12.5
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
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	4.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	11.1
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°
80.4	0°	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
95.6	2.5°	98.4	97.0	94.3	91.5	91.5	91.5	95.6	99.8	104.0	104.0
85.9	5°	91.5	91.5	90.1	87.3	87.3	88.7	94.3	101.2	106.7	108.1
79.0	7.5°	84.5	87.3	84.5	83.2	84.5	85.9	91.5	99.8	108.1	110.9
73.5	10°	80.4	81.8	81.8	80.4	80.4	83.2	88.7	99.8	110.9	115.0
66.5	12.5°	74.8	77.6	76.2	76.2	76.2	79.0	85.9	98.4	113.7	119.2
59.6	15°	69.3	73.5	73.5	72.1	72.1	73.5	83.2	97.0	117.8	127.5
51.3	17.5°	63.8	67.9	69.3	66.5	66.5	69.3	79.0	97.0	120.6	137.2
41.6	20°	52.7	59.6	63.8	59.6	59.6	62.4	72.1	91.5	122.0	146.9
30.5	22.5°	41.6	48.5	54.1	52.7	52.7	54.1	66.5	87.3	123.4	163.6
18.0	25°	30.5	37.4	41.6	44.4	44.4	48.5	61.0	84.5	128.9	198.2
8.3	27.5°	18.0	26.3	31.9	34.7	36.0	41.6	56.8	81.8	138.6	248.1
0.0	30°	8.3	15.2	22.2	27.7	27.7	37.4	52.7	79.0	151.1	320.2
0.0	32.5°	0.0	6.9	11.1	19.4	20.8	30.5	48.5	76.2	169.1	389.5
0.0	35°	0.0	0.0	5.5	15.2	15.2	24.9	44.4	73.5	196.8	442.1
0.0	37.5°	0.0	0.0	0.0	11.1	12.5	22.2	43.0	72.1	202.4	446.3
0.0	40°	0.0	0.0	0.0	8.3	9.7	20.8	43.0	73.5	183.0	436.6
0.0	42.5°	0.0	0.0	0.0	5.5	6.9	20.8	43.0	76.2	164.9	447.7
0.0	45°	0.0	0.0	0.0	4.2	5.5	22.2	41.6	74.8	155.2	505.9
0.0	47.5°	0.0	0.0	0.0	5.5	8.3	22.2	40.2	73.5	156.6	698.6
0.0	50°	0.0	0.0	0.0	6.9	9.7	22.2	41.6	70.7	171.9	1074.2
0.0	52.5°	0.0	0.0	0.0	5.5	8.3	24.9	45.7	69.3	187.1	1397.1
0.0	55°	0.0	0.0	0.0	1.4	4.2	31.9	49.9	69.3	210.7	1477.5
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	36.0	56.8	73.5	249.5	1445.6
0.0	58°	0.0	0.0	0.0	0.0	0.0	36.0	58.2	73.5	252.3	1417.9
0.0	60°	0.0	0.0	0.0	0.0	0.0	36.0	63.8	81.8	271.7	1262.7
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	30.5	76.2	102.6	282.8	992.4
0.0	65°	0.0	0.0	0.0	0.0	0.0	24.9	90.1	112.3	291.1	790.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	23.6	92.9	113.7	295.2	629.3
0.0	70°	0.0	0.0	0.0	0.0	0.0	24.9	91.5	122.0	309.1	511.5
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	27.7	83.2	134.4	309.1	453.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	29.1	77.6	151.1	281.4	392.3
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	27.7	76.2	176.0	250.9	322.9
0.0	80°	2.8	4.2	4.2	2.8	2.8	23.6	74.8	178.8	213.5	221.8
1.4	82.5°	8.3	11.1	9.7	6.9	6.9	20.8	66.5	149.7	110.9	95.6
8.3	85°	15.2	18.0	18.0	15.2	15.2	19.4	41.6	54.1	37.4	30.5
15.2	87.5°	20.8	23.6	23.6	20.8	20.8	19.4	18.0	16.6	15.2	15.2
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

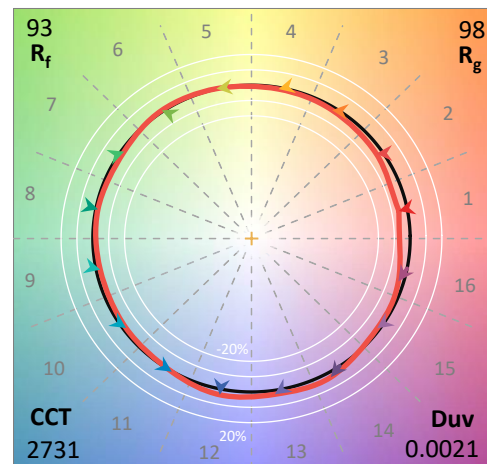
Test Information

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

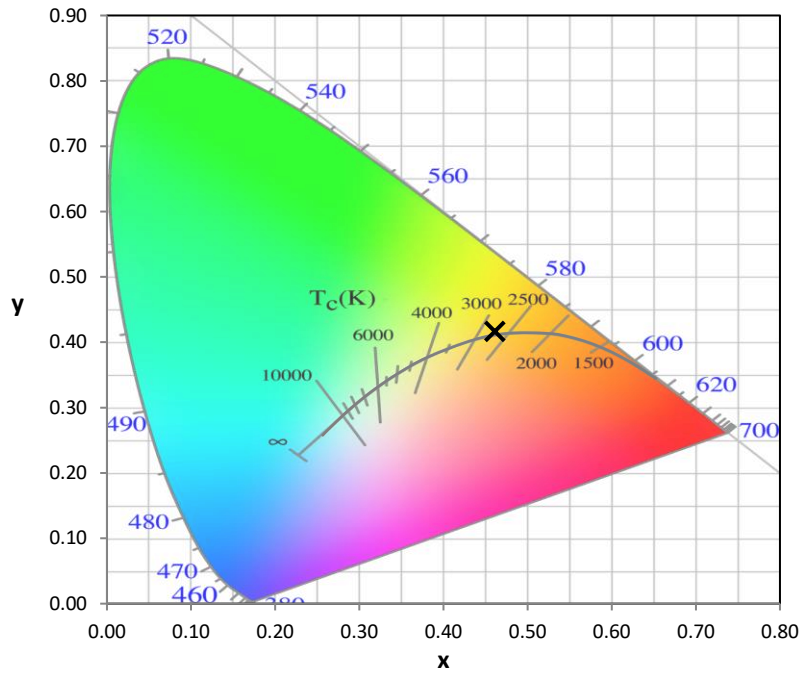
Stabilization Time: M
 Operation Time: 1H 0M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-13

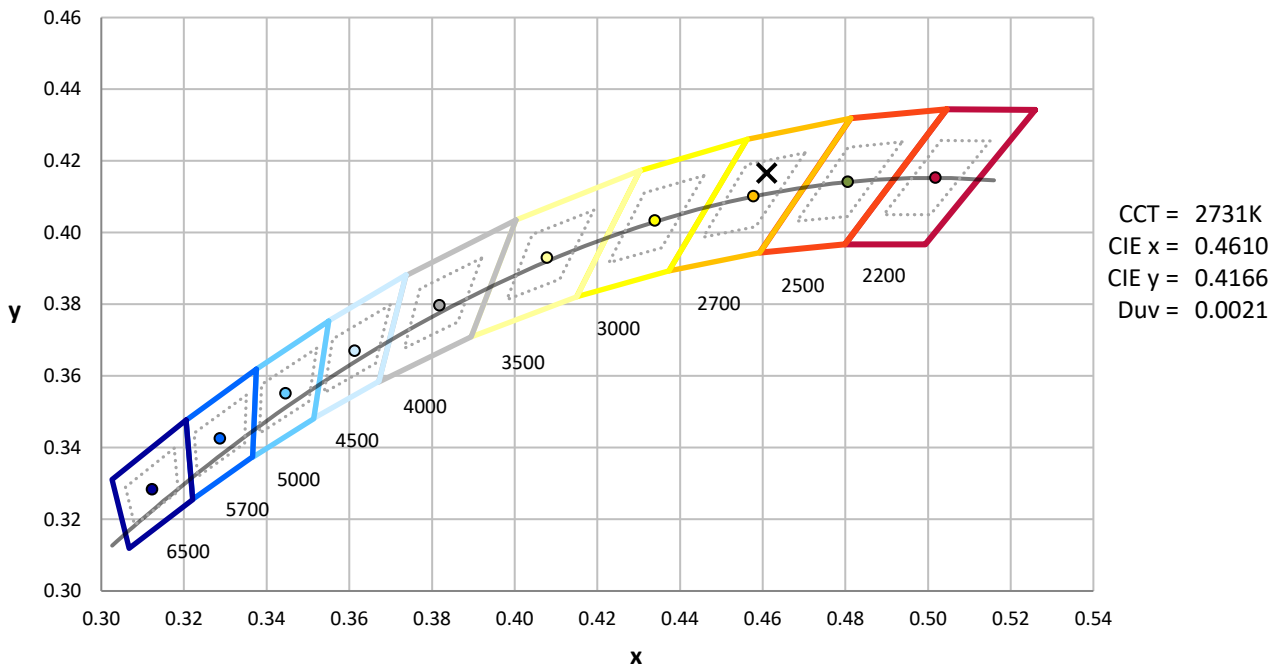
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-13

CIE 1931 Chromaticity Diagram



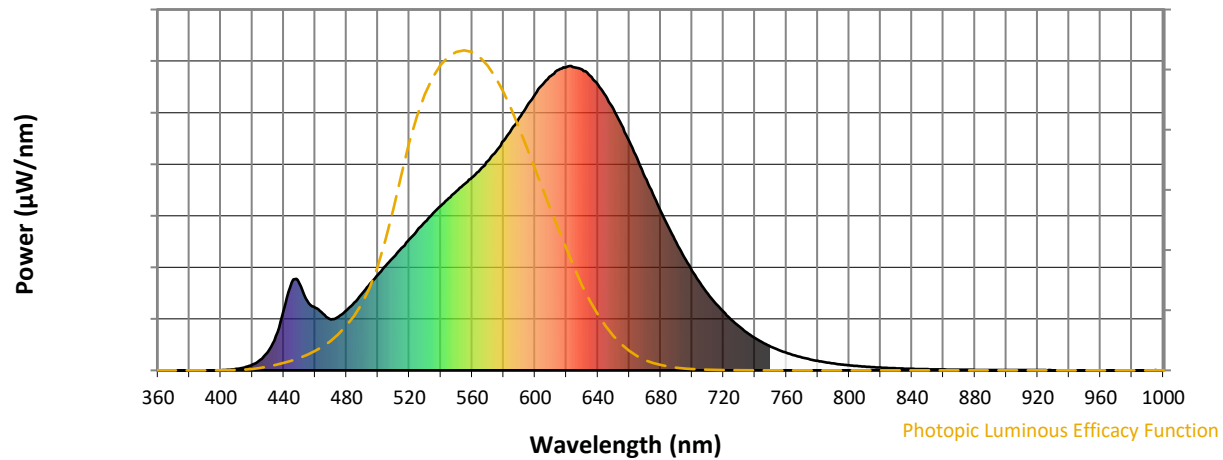
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-13

Photopic Flux vs. Wavelength

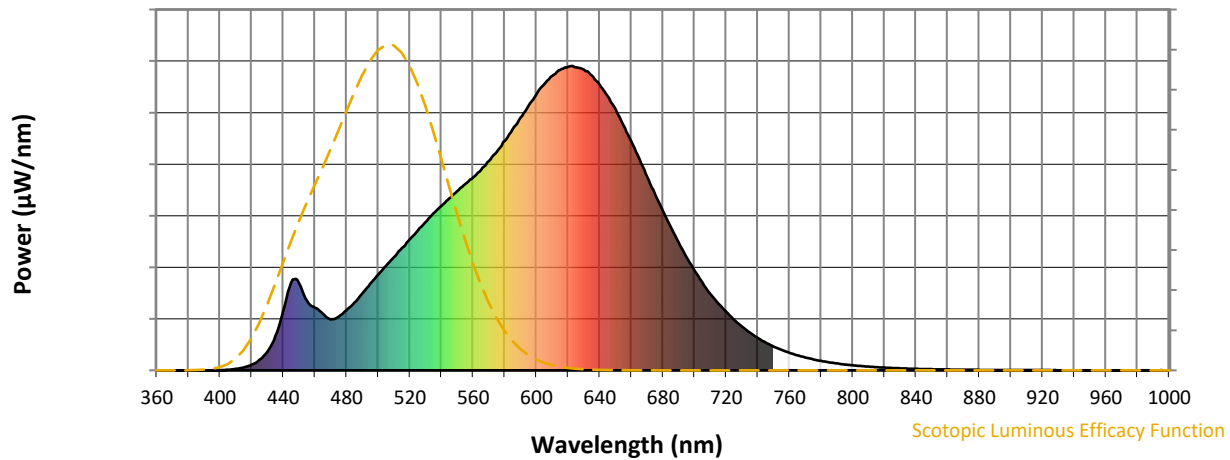


Photopic Lumens: NR

λ (nm)	Power 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	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



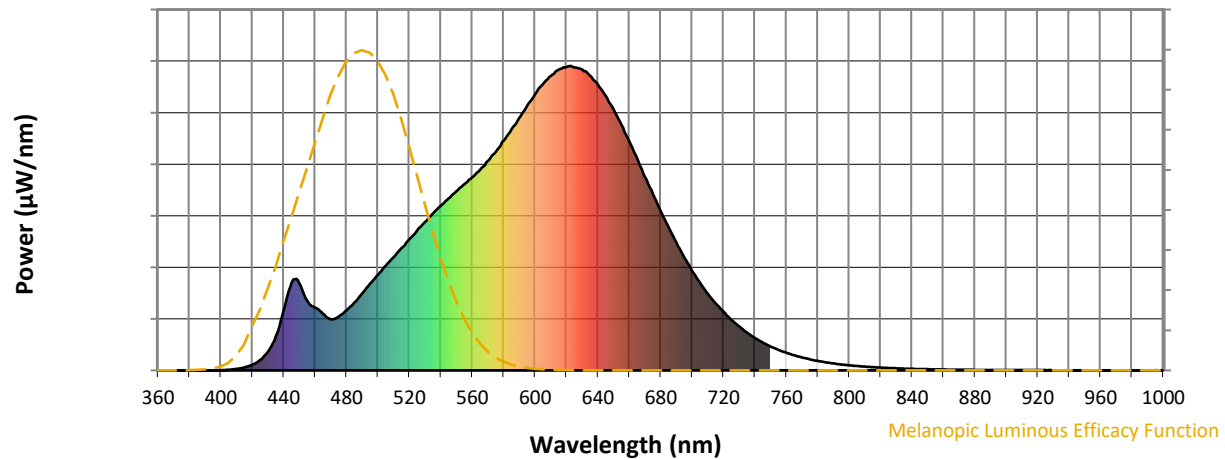
Scotopic Lumens: NR

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

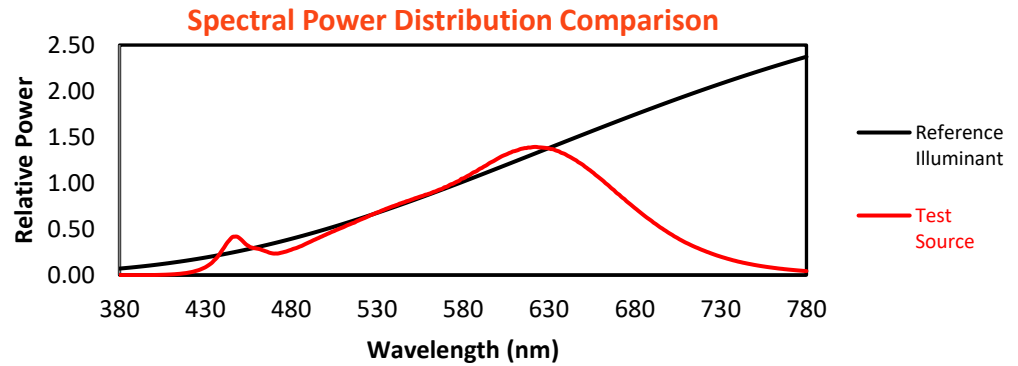
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	253	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

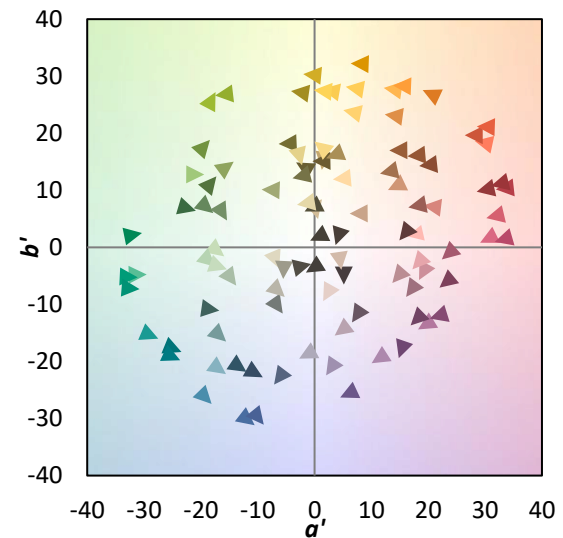
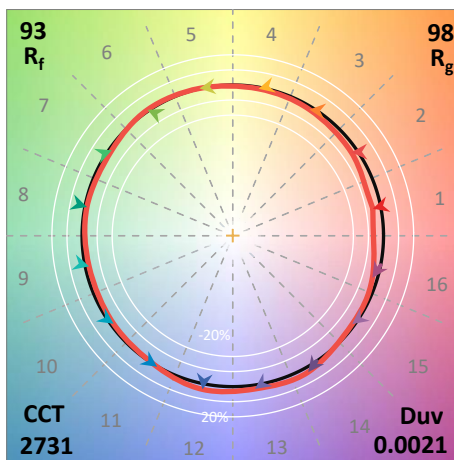
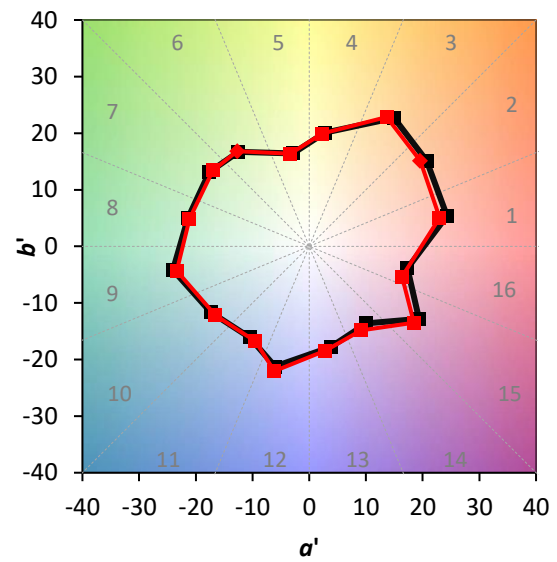
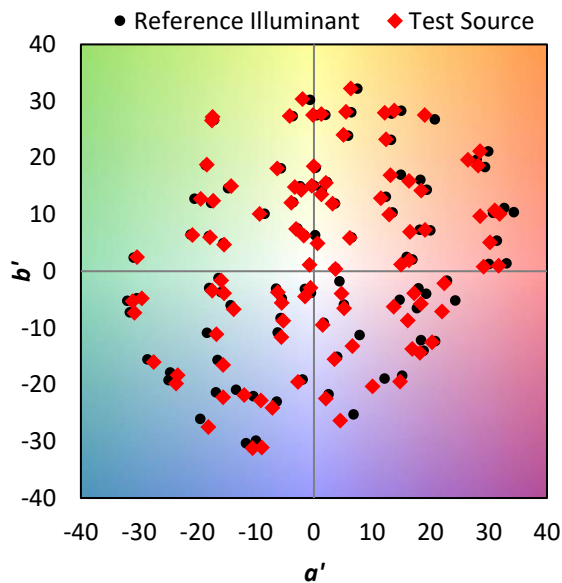
TM-30-18

Summary

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

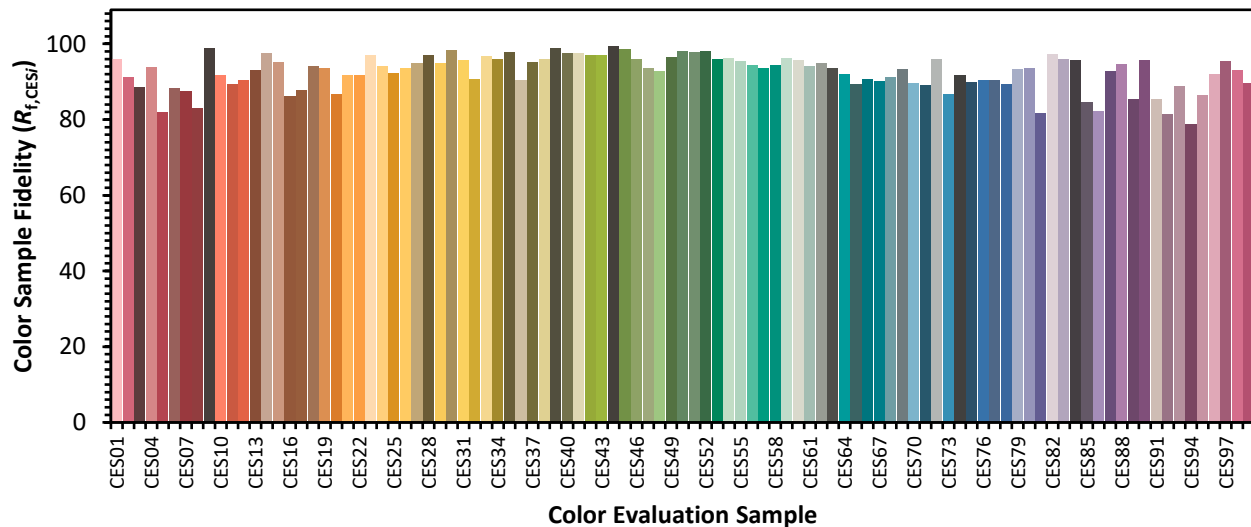


Color Vector Graphics

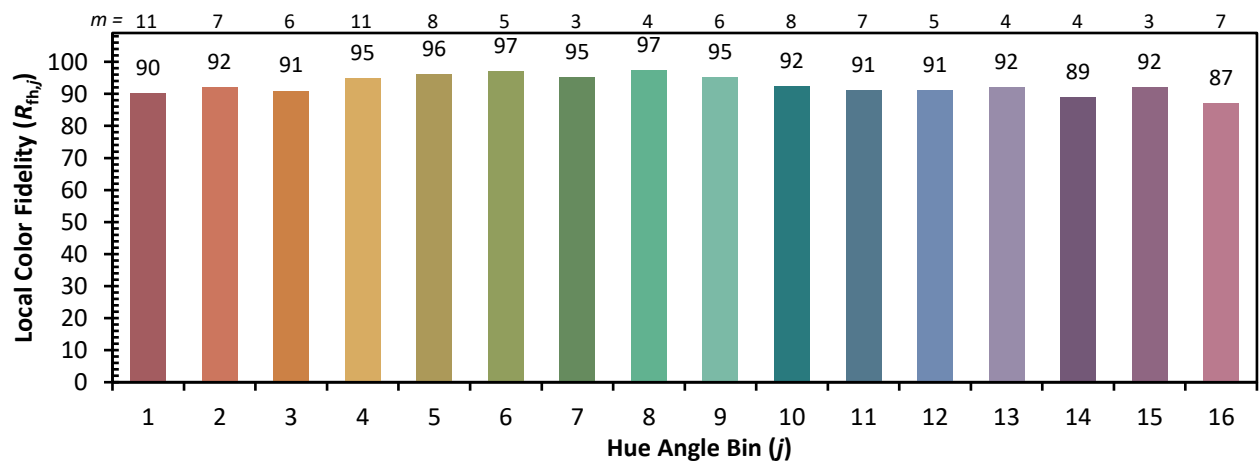
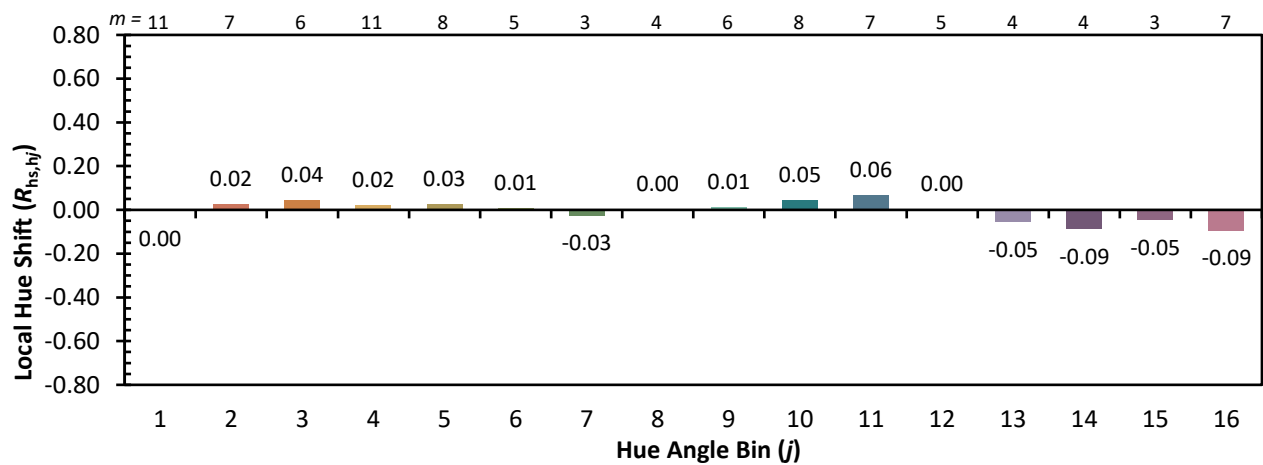
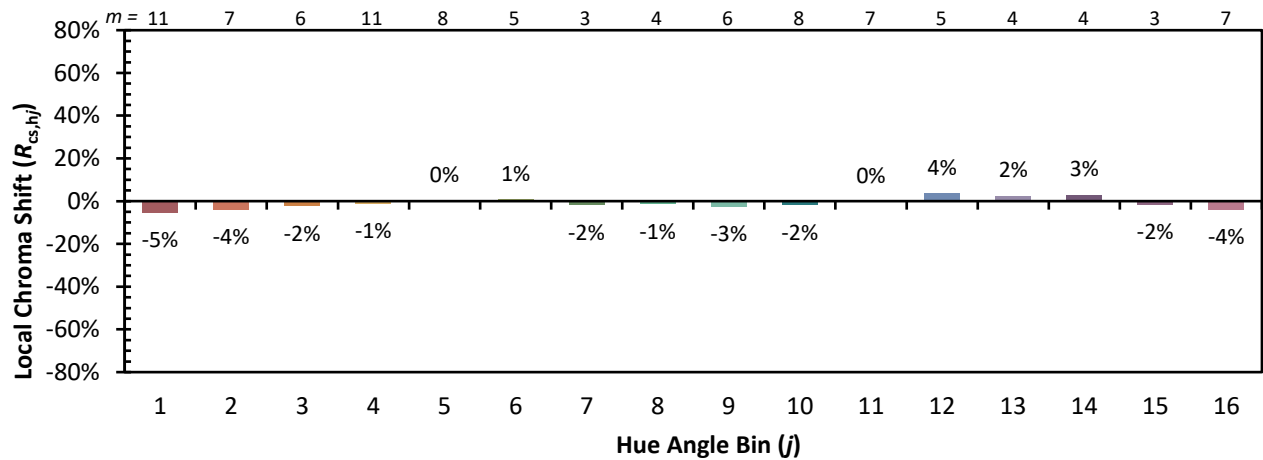


Individual Sample Fidelity Index ($R_{f,i}$)

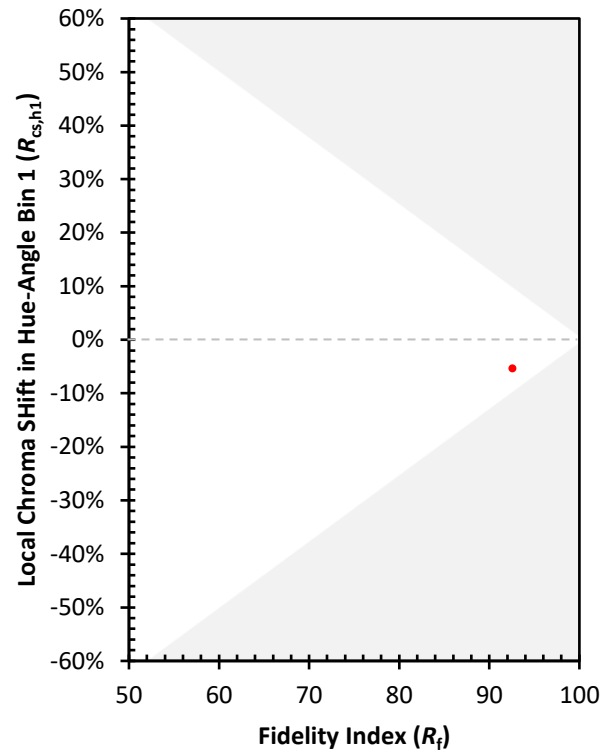
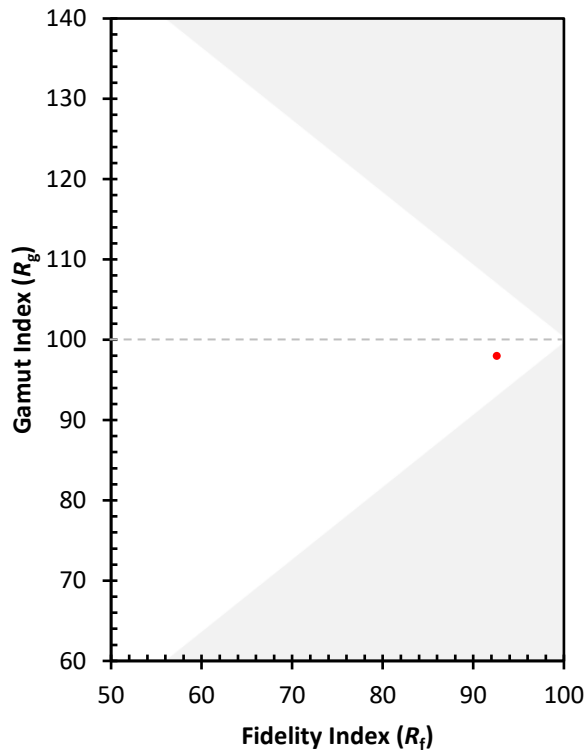
CES01 = 86	CES26 = 94	CES51 = 98	CES76 = 90
CES02 = 64	CES27 = 95	CES52 = 98	CES77 = 90
CES03 = 32	CES28 = 97	CES53 = 96	CES78 = 89
CES04 = 71	CES29 = 95	CES54 = 96	CES79 = 93
CES05 = 51	CES30 = 98	CES55 = 95	CES80 = 94
CES06 = 52	CES31 = 96	CES56 = 94	CES81 = 82
CES07 = 44	CES32 = 91	CES57 = 94	CES82 = 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)