

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: P1049943

Luminaire Tested: **GALN-SA4C-930-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049943
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-930-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 4xLight Square PACKAGE
90CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14170.2 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

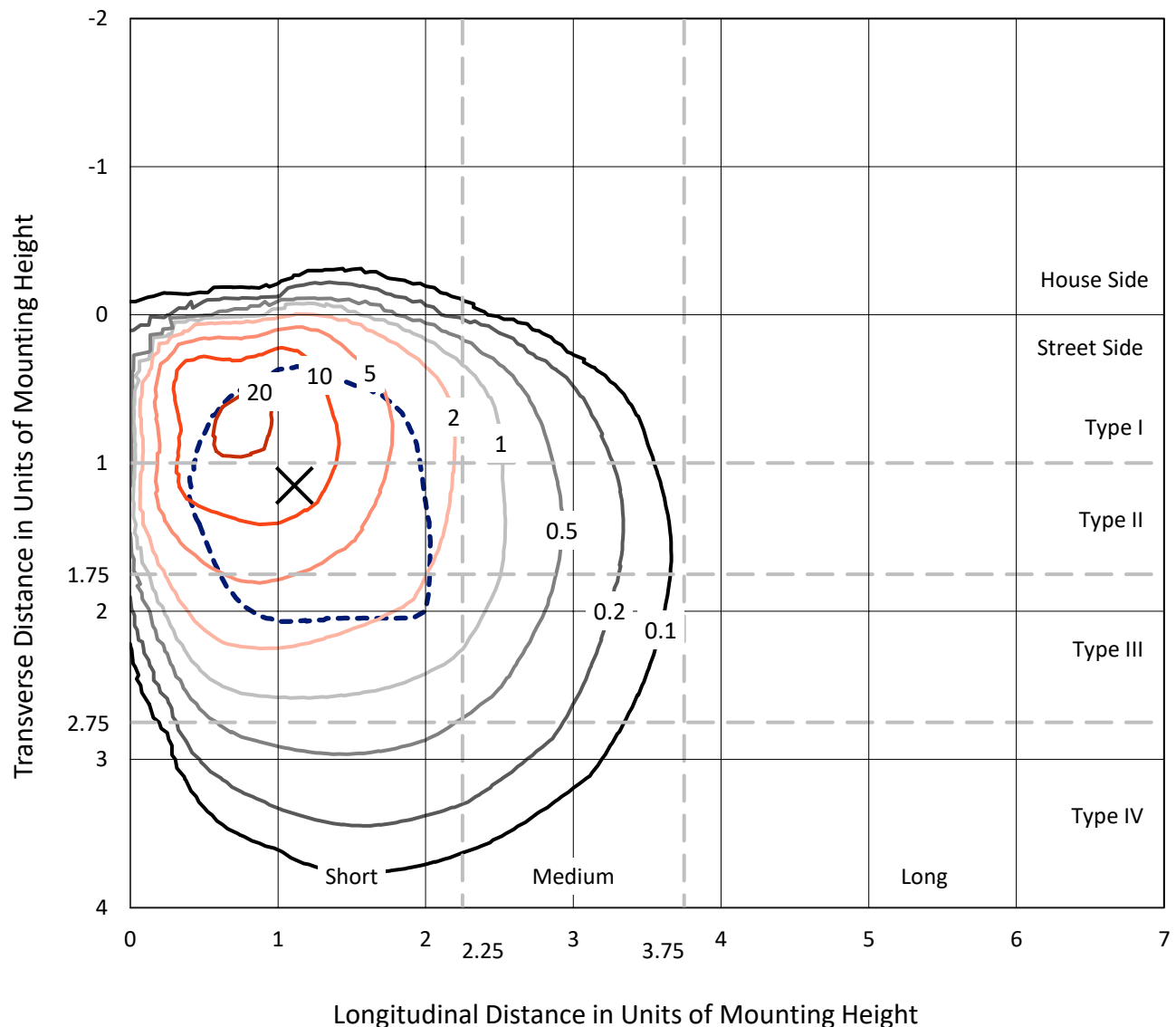
Input Watts (W): 190.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

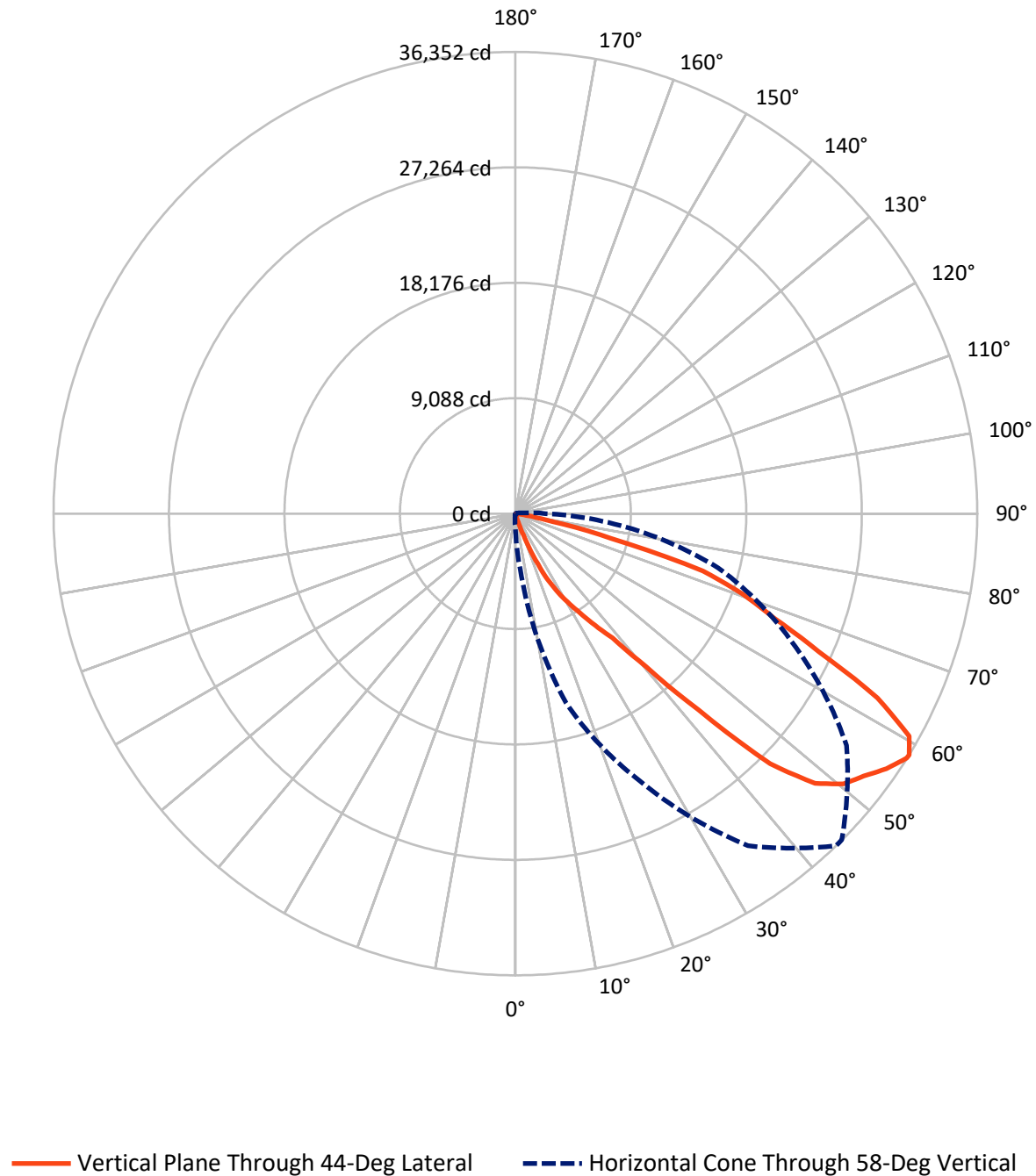
× Max cd
 - - - 1/2 Max cd



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	96.8	0.0	96.8
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	14073.4	0.0	14073.4
	% Fixture	99.3	0.0	99.3
Total	Lumens	14170.2	0.0	14170.2
	% 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°	335.7	2.4
30°-40°	992.8	7.0
40°-50°	2959.0	20.9
50°-60°	4695.1	33.1
60°-70°	3916.3	27.6
70°-80°	1207.9	8.5
80°-90°	26.8	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°	14170.2	100.0
0°-180°	14170.2	100.0



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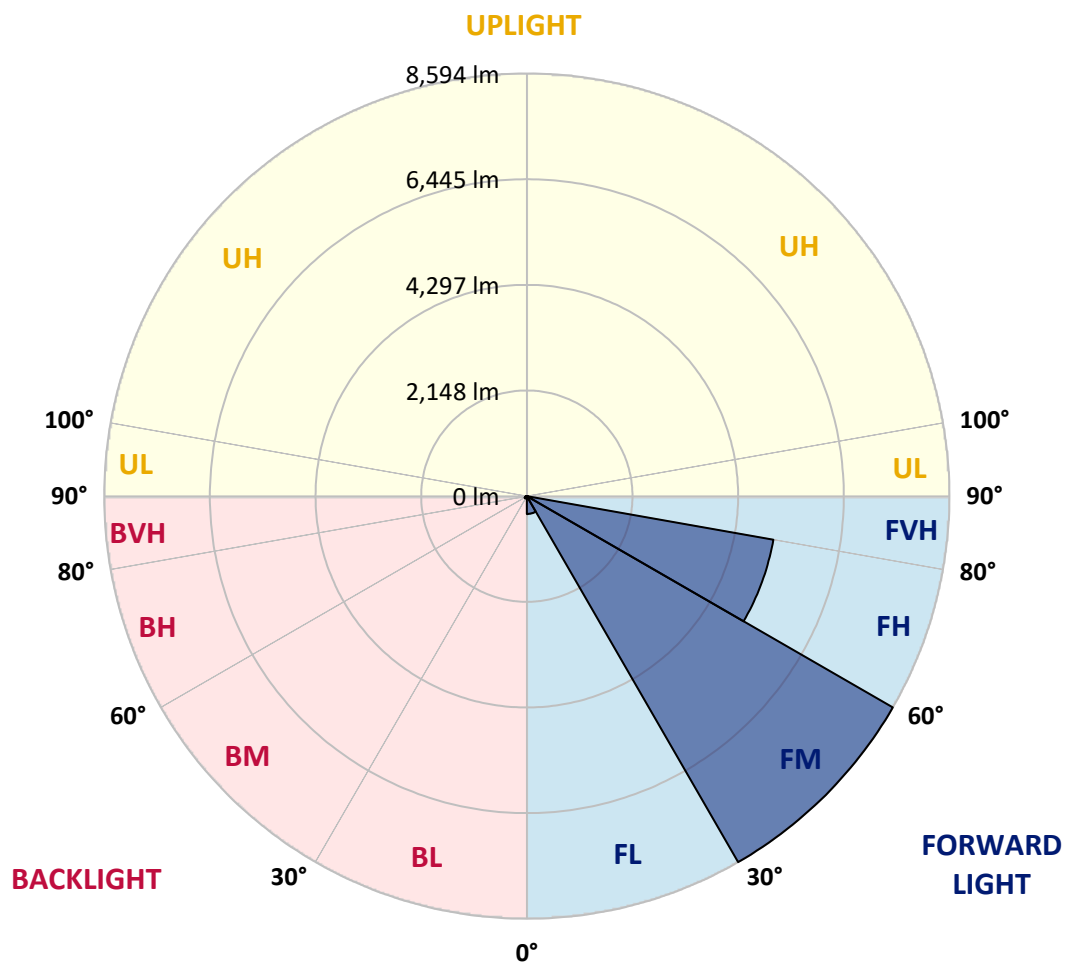
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	362.8	2.6			
FM	(30°-60°)	8593.9	60.6			
FH	(60°-80°)	5091.1	35.9			G3/7500
FVH	(80°-90°)	25.5	0.2			G1/100
BL	(0°-30°)	9.5	0.1	B0/110		
BM	(30°-60°)	53.0	0.4	B0/220		
BH	(60°-80°)	33.0	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°	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
2.5°	80.3	80.3	77.1	72.8	68.5	64.2	63.2	61.0	59.9	58.9
5°	83.5	83.5	82.4	79.2	74.9	71.7	71.7	68.5	66.4	64.2
7.5°	85.6	86.7	88.8	87.8	85.6	82.4	82.4	80.3	77.1	71.7
10°	88.8	92.1	96.3	98.5	99.6	99.6	98.5	97.4	92.1	84.6
12.5°	92.1	98.5	109.2	119.9	126.3	134.9	133.8	131.7	117.7	101.7
15°	98.5	108.1	130.6	161.6	209.8	239.8	251.6	240.8	194.8	137.0
17.5°	106.0	122.0	189.5	338.3	554.5	657.2	719.3	669.0	443.2	260.1
20°	113.5	148.8	352.2	876.7	1438.7	1774.8	1867.9	1722.3	1105.8	495.6
22.5°	126.3	208.7	714.0	1812.2	3100.0	3604.2	3699.4	3233.8	2088.4	978.4
25°	153.1	302.9	1231.0	2953.3	4626.4	5477.4	5437.8	4827.7	3387.9	1562.8
27.5°	191.6	441.0	1861.5	4196.1	6088.6	6839.0	6928.9	6174.3	4516.2	2298.2
30°	247.3	611.2	2538.0	5191.6	7260.8	8072.2	8087.1	7306.8	5525.6	2943.7
32.5°	300.8	771.8	3130.0	6153.9	8415.8	9305.3	9371.7	8411.5	6279.2	3615.9
35°	341.5	876.7	3729.4	6999.6	9580.4	10806.0	10801.8	9661.8	7171.9	4216.4
37.5°	344.7	981.6	4272.1	7864.5	11055.5	12427.8	12563.7	11307.0	8250.9	4959.3
40°	337.2	1099.3	4959.3	9213.2	13713.3	15818.9	15938.8	14354.5	10415.3	6231.0
42.5°	345.8	1303.8	6074.7	11704.1	18126.8	21150.7	21381.9	19716.4	14394.1	8825.7
45°	390.7	1688.1	8411.5	15871.3	24417.7	28104.3	28027.2	25628.4	19023.8	12775.6
47.5°	539.5	2629.0	11875.4	19927.2	28438.3	31721.3	31787.7	28855.7	21725.6	15812.5
50°	829.6	4022.7	14785.9	22071.3	30167.0	33460.7	33398.7	30010.7	22752.1	17307.9
52.5°	1079.0	5031.0	16246.0	22823.8	30388.6	34320.3	34316.0	30314.7	22911.6	17436.3
55°	1141.1	5107.0	16257.8	22864.5	30885.3	35445.3	35586.6	31063.0	23118.2	16875.4
57.5°	1116.5	4521.5	15579.1	23100.0	31769.5	36315.6	36323.1	31787.7	23642.7	16531.8
58°	1095.1	4429.5	15442.1	23233.8	31921.5	36352.0	36333.8	31820.8	24069.8	16519.0
60°	975.2	3846.1	14908.0	23575.3	31695.6	35604.8	35434.6	31096.2	24006.7	16387.3
62.5°	766.4	3000.4	14382.4	23180.3	29274.3	31987.8	32058.5	27530.5	21885.1	15619.8
65°	610.1	2236.1	13286.2	20332.9	24106.2	26268.5	26531.8	22387.1	18267.0	13226.3
67.5°	486.0	1616.4	11145.4	16188.2	19075.2	21923.6	22115.2	18795.8	14152.2	10133.8
70°	395.0	1092.9	7693.2	11839.0	15733.3	18936.0	18947.8	15614.4	10563.1	6639.9
72.5°	350.0	756.8	4465.9	8634.1	12757.5	15430.3	15118.8	12670.7	8118.2	3932.8
75°	302.9	502.0	2190.1	5278.3	7735.0	7787.4	7906.2	5877.8	4058.0	1870.1
77.5°	249.4	356.5	862.8	1441.9	2319.6	2969.4	3079.6	2333.5	1349.8	460.3
80°	171.3	169.1	232.3	442.1	663.7	831.7	776.1	600.5	353.2	176.6
82.5°	73.9	80.3	104.9	126.3	102.8	99.6	95.3	61.0	47.1	36.4
85°	23.5	21.4	22.5	22.5	18.2	13.9	13.9	6.4	0.0	0.0
87.5°	11.8	9.6	9.6	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°
62.1	0°	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
57.8	2.5°	56.7	56.7	54.6	52.5	51.4	49.2	48.2	47.1	46.0	45.0
62.1	5°	59.9	58.9	55.7	52.5	49.2	46.0	43.9	41.7	39.6	38.5
68.5	7.5°	65.3	63.2	56.7	51.4	47.1	42.8	40.7	37.5	35.3	32.1
76.0	10°	71.7	67.4	58.9	52.5	46.0	40.7	37.5	34.3	31.0	26.8
86.7	12.5°	80.3	72.8	62.1	51.4	43.9	37.5	34.3	30.0	26.8	23.5
100.6	15°	87.8	78.1	63.2	51.4	41.7	34.3	30.0	25.7	22.5	18.2
126.3	17.5°	98.5	82.4	62.1	48.2	38.5	30.0	25.7	22.5	17.1	10.7
187.3	20°	116.7	85.6	59.9	45.0	33.2	24.6	19.3	15.0	7.5	2.1
281.5	22.5°	145.6	94.2	57.8	40.7	28.9	19.3	12.8	5.4	0.0	0.0
428.2	25°	201.2	109.2	57.8	38.5	25.7	13.9	4.3	0.0	0.0	0.0
608.0	27.5°	267.6	129.5	57.8	33.2	20.3	7.5	0.0	0.0	0.0	0.0
828.5	30°	335.0	152.0	57.8	28.9	16.1	1.1	0.0	0.0	0.0	0.0
1020.1	32.5°	399.3	171.3	58.9	24.6	10.7	0.0	0.0	0.0	0.0	0.0
1285.6	35°	464.6	174.5	57.8	21.4	6.4	0.0	0.0	0.0	0.0	0.0
1611.0	37.5°	548.1	168.1	54.6	19.3	3.2	0.0	0.0	0.0	0.0	0.0
2119.5	40°	674.4	171.3	51.4	18.2	1.1	0.0	0.0	0.0	0.0	0.0
3026.1	42.5°	907.7	185.2	47.1	18.2	0.0	0.0	0.0	0.0	0.0	0.0
4820.2	45°	1569.3	248.3	42.8	19.3	0.0	0.0	0.0	0.0	0.0	0.0
7236.1	47.5°	2595.8	446.4	41.7	19.3	0.0	0.0	0.0	0.0	0.0	0.0
8716.6	50°	3313.0	562.0	43.9	20.3	0.0	0.0	0.0	0.0	0.0	0.0
8901.7	52.5°	3307.6	626.2	46.0	21.4	4.3	0.0	0.0	0.0	0.0	0.0
8204.9	55°	2940.5	638.0	49.2	23.5	13.9	0.0	0.0	0.0	0.0	0.0
7051.0	57.5°	2457.7	582.3	56.7	28.9	25.7	0.0	0.0	0.0	0.0	0.0
6870.1	58°	2372.1	556.6	58.9	30.0	27.8	0.0	0.0	0.0	0.0	0.0
5959.1	60°	1943.9	453.9	74.9	37.5	37.5	0.0	0.0	0.0	0.0	0.0
4885.5	62.5°	1342.3	396.1	85.6	48.2	38.5	0.0	0.0	0.0	0.0	0.0
3602.0	65°	949.5	357.5	93.1	51.4	31.0	0.0	0.0	0.0	0.0	0.0
2559.4	67.5°	709.7	329.7	102.8	52.5	16.1	0.0	0.0	0.0	0.0	0.0
1605.7	70°	543.8	309.4	126.3	55.7	4.3	0.0	0.0	0.0	0.0	0.0
957.0	72.5°	443.2	285.8	153.1	57.8	0.0	0.0	0.0	0.0	0.0	0.0
573.8	75°	367.2	258.0	147.7	63.2	0.0	0.0	0.0	0.0	0.0	0.0
306.1	77.5°	244.1	200.2	134.9	63.2	0.0	0.0	0.0	0.0	0.0	0.0
109.2	80°	85.6	79.2	104.9	55.7	0.0	0.0	0.0	0.0	0.0	0.0
22.5	82.5°	12.8	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°
62.1	0°	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
43.9	2.5°	43.9	43.9	42.8	43.9	43.9	46.0	51.4	58.9	67.4	70.6
37.5	5°	36.4	35.3	34.3	34.3	34.3	37.5	41.7	50.3	59.9	64.2
31.0	7.5°	30.0	28.9	27.8	26.8	26.8	28.9	34.3	43.9	53.5	57.8
25.7	10°	24.6	22.5	21.4	20.3	20.3	22.5	27.8	37.5	48.2	52.5
21.4	12.5°	20.3	17.1	15.0	13.9	12.8	16.1	21.4	30.0	41.7	47.1
16.1	15°	13.9	10.7	7.5	6.4	5.4	8.6	13.9	23.5	35.3	41.7
8.6	17.5°	7.5	3.2	1.1	0.0	0.0	2.1	6.4	17.1	28.9	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	12.8	18.2
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	9.6
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°
62.1	0°	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
73.9	2.5°	76.0	74.9	72.8	70.6	70.6	70.6	73.9	77.1	80.3	80.3
66.4	5°	70.6	70.6	69.6	67.4	67.4	68.5	72.8	78.1	82.4	83.5
61.0	7.5°	65.3	67.4	65.3	64.2	65.3	66.4	70.6	77.1	83.5	85.6
56.7	10°	62.1	63.2	63.2	62.1	62.1	64.2	68.5	77.1	85.6	88.8
51.4	12.5°	57.8	59.9	58.9	58.9	58.9	61.0	66.4	76.0	87.8	92.1
46.0	15°	53.5	56.7	56.7	55.7	55.7	56.7	64.2	74.9	91.0	98.5
39.6	17.5°	49.2	52.5	53.5	51.4	51.4	53.5	61.0	74.9	93.1	106.0
32.1	20°	40.7	46.0	49.2	46.0	46.0	48.2	55.7	70.6	94.2	113.5
23.5	22.5°	32.1	37.5	41.7	40.7	40.7	41.7	51.4	67.4	95.3	126.3
13.9	25°	23.5	28.9	32.1	34.3	34.3	37.5	47.1	65.3	99.6	153.1
6.4	27.5°	13.9	20.3	24.6	26.8	27.8	32.1	43.9	63.2	107.0	191.6
0.0	30°	6.4	11.8	17.1	21.4	21.4	28.9	40.7	61.0	116.7	247.3
0.0	32.5°	0.0	5.4	8.6	15.0	16.1	23.5	37.5	58.9	130.6	300.8
0.0	35°	0.0	0.0	4.3	11.8	11.8	19.3	34.3	56.7	152.0	341.5
0.0	37.5°	0.0	0.0	0.0	8.6	9.6	17.1	33.2	55.7	156.3	344.7
0.0	40°	0.0	0.0	0.0	6.4	7.5	16.1	33.2	56.7	141.3	337.2
0.0	42.5°	0.0	0.0	0.0	4.3	5.4	16.1	33.2	58.9	127.4	345.8
0.0	45°	0.0	0.0	0.0	3.2	4.3	17.1	32.1	57.8	119.9	390.7
0.0	47.5°	0.0	0.0	0.0	4.3	6.4	17.1	31.0	56.7	121.0	539.5
0.0	50°	0.0	0.0	0.0	5.4	7.5	17.1	32.1	54.6	132.7	829.6
0.0	52.5°	0.0	0.0	0.0	4.3	6.4	19.3	35.3	53.5	144.5	1079.0
0.0	55°	0.0	0.0	0.0	1.1	3.2	24.6	38.5	53.5	162.7	1141.1
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	27.8	43.9	56.7	192.7	1116.5
0.0	58°	0.0	0.0	0.0	0.0	0.0	27.8	45.0	56.7	194.8	1095.1
0.0	60°	0.0	0.0	0.0	0.0	0.0	27.8	49.2	63.2	209.8	975.2
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	23.5	58.9	79.2	218.4	766.4
0.0	65°	0.0	0.0	0.0	0.0	0.0	19.3	69.6	86.7	224.8	610.1
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	18.2	71.7	87.8	228.0	486.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	19.3	70.6	94.2	238.7	395.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	21.4	64.2	103.8	238.7	350.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	22.5	59.9	116.7	217.3	302.9
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	21.4	58.9	135.9	193.7	249.4
0.0	80°	2.1	3.2	3.2	2.1	2.1	18.2	57.8	138.1	164.8	171.3
1.1	82.5°	6.4	8.6	7.5	5.4	5.4	16.1	51.4	115.6	85.6	73.9
6.4	85°	11.8	13.9	13.9	11.8	11.8	15.0	32.1	41.7	28.9	23.5
11.8	87.5°	16.1	18.2	18.2	16.1	16.1	15.0	13.9	12.8	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: SP1-2407-184-14

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-930-U-5WQ

Data in this report applies to families of products including GSS-SB1A-930-U-5WQ

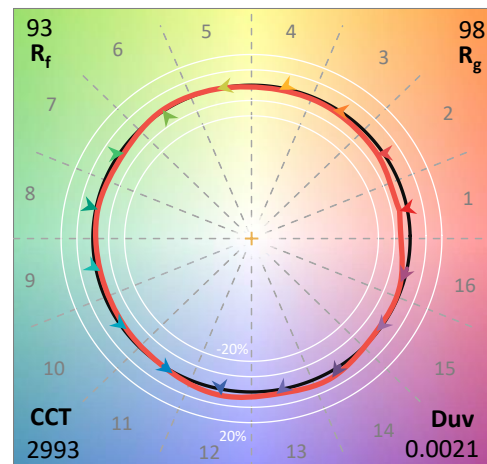
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-14
 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-930-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 2993
 CIE u' : 0.2501
 CIE v' : 0.5245
 Duv: 0.0021
 CIE x: 0.4406
 CIE y: 0.4107
 CIE z: 0.1487
 Peak Wavelength (nm): 621
 Dominant Wavelength (nm): 582
 Purity: 55.53327
 R_f: 92.6
 R_g: 98.5

CRI (Ra): 92.4
 R1: 92.2
 R2: 95.2
 R3: 97.0
 R4: 93.1
 R5: 91.7
 R6: 94.2
 R7: 93.3
 R8: 82.3
 R9: 58.2
 R10: 87.7
 R11: 93.5
 R12: 81.7
 R13: 92.9
 R14: 97.6
 R15: 88.1



Test Conditions

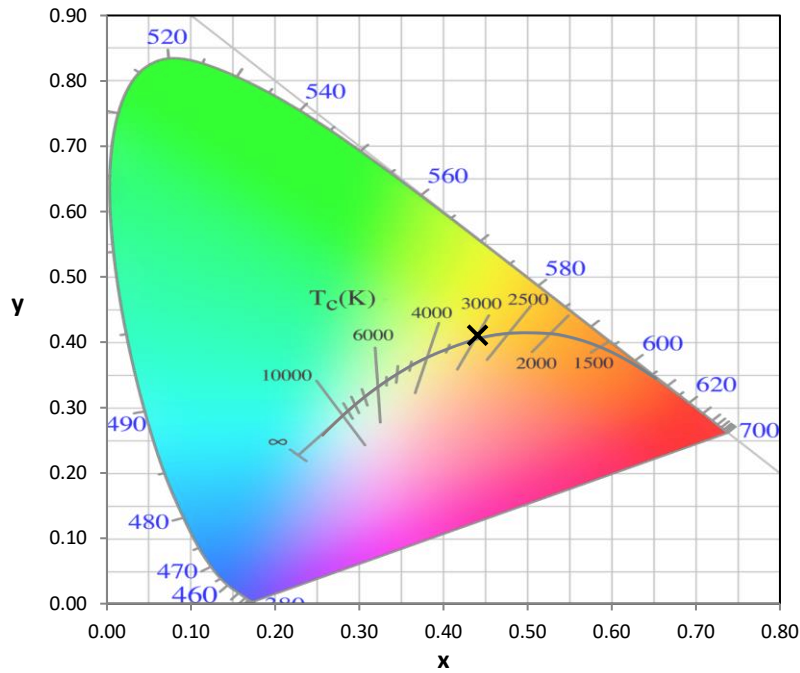
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-14

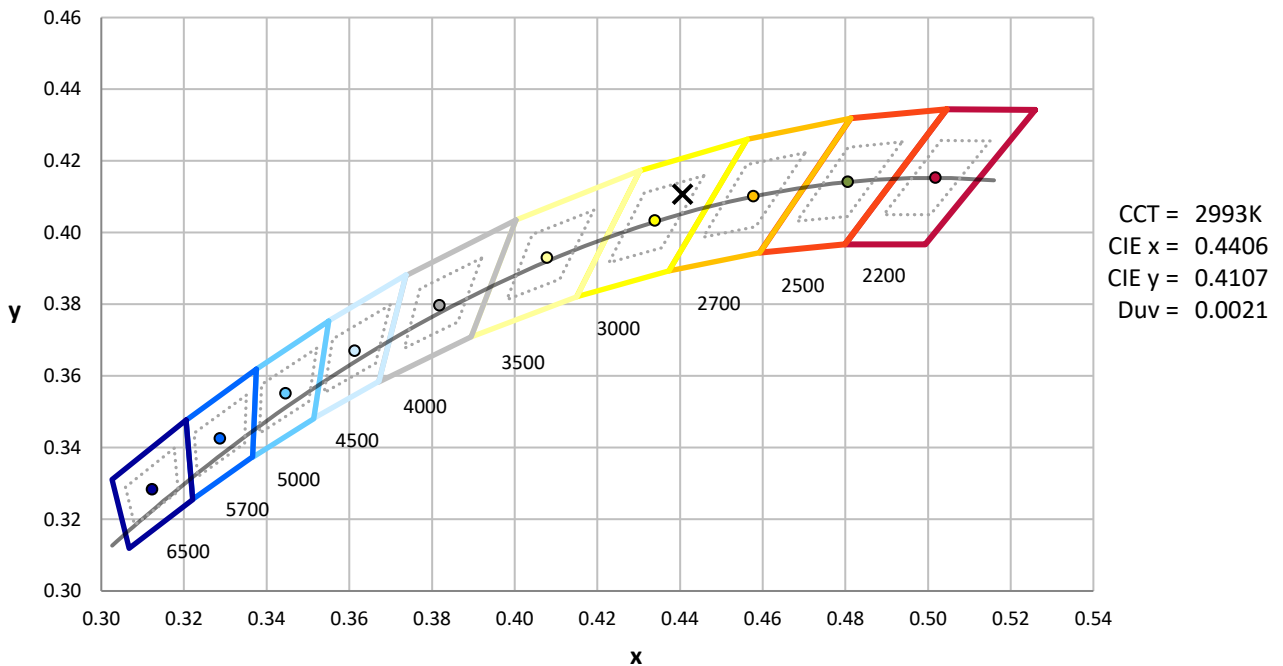
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



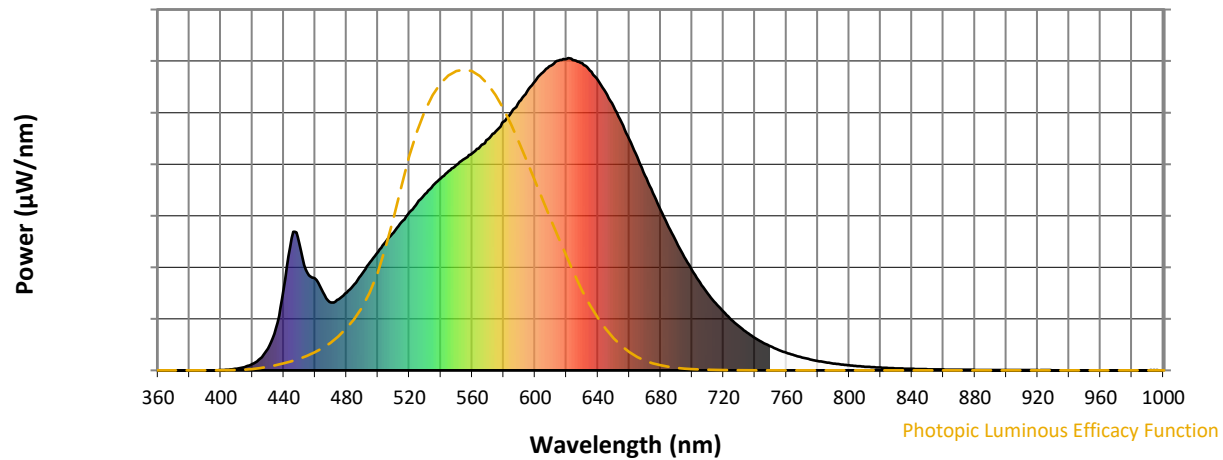
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-14

Photopic Flux vs. Wavelength

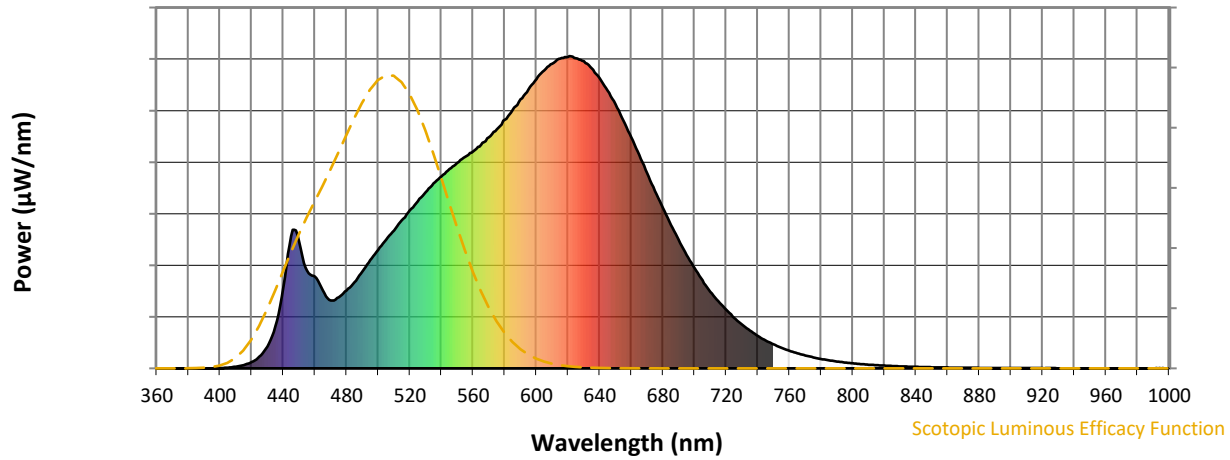


Photopic Lumens: NR

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	310	NR	620	998	NR	750	77	NR	880	2	NR
365	0	NR	495	347	NR	625	993	NR	755	66	NR	885	1	NR
370	0	NR	500	379	NR	630	983	NR	760	56	NR	890	1	NR
375	0	NR	505	412	NR	635	960	NR	765	48	NR	895	1	NR
380	0	NR	510	442	NR	640	930	NR	770	41	NR	900	1	NR
385	0	NR	515	475	NR	645	889	NR	775	35	NR	905	1	NR
390	0	NR	520	506	NR	650	846	NR	780	30	NR	910	1	NR
395	0	NR	525	535	NR	655	794	NR	785	26	NR	915	1	NR
400	1	NR	530	565	NR	660	740	NR	790	22	NR	920	1	NR
405	2	NR	535	592	NR	665	684	NR	795	19	NR	925	1	NR
410	6	NR	540	615	NR	670	624	NR	800	16	NR	930	0	NR
415	10	NR	545	638	NR	675	567	NR	805	14	NR	935	0	NR
420	20	NR	550	658	NR	680	513	NR	810	12	NR	940	0	NR
425	38	NR	555	678	NR	685	459	NR	815	10	NR	945	0	NR
430	70	NR	560	695	NR	690	412	NR	820	9	NR	950	0	NR
435	136	NR	565	716	NR	695	363	NR	825	8	NR	955	0	NR
440	262	NR	570	740	NR	700	320	NR	830	7	NR	960	0	NR
445	424	NR	575	765	NR	705	281	NR	835	6	NR	965	0	NR
450	406	NR	580	796	NR	710	245	NR	840	5	NR	970	0	NR
455	313	NR	585	827	NR	715	215	NR	845	4	NR	975	0	NR
460	294	NR	590	861	NR	720	188	NR	850	4	NR	980	0	NR
465	250	NR	595	894	NR	725	162	NR	855	3	NR	985	0	NR
470	217	NR	600	927	NR	730	140	NR	860	3	NR	990	0	NR
475	228	NR	605	954	NR	735	121	NR	865	2	NR	995	0	NR
480	249	NR	610	976	NR	740	104	NR	870	2	NR	1000	0	NR
485	276	NR	615	992	NR	745	89	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-14

Scotopic Flux vs. Wavelength



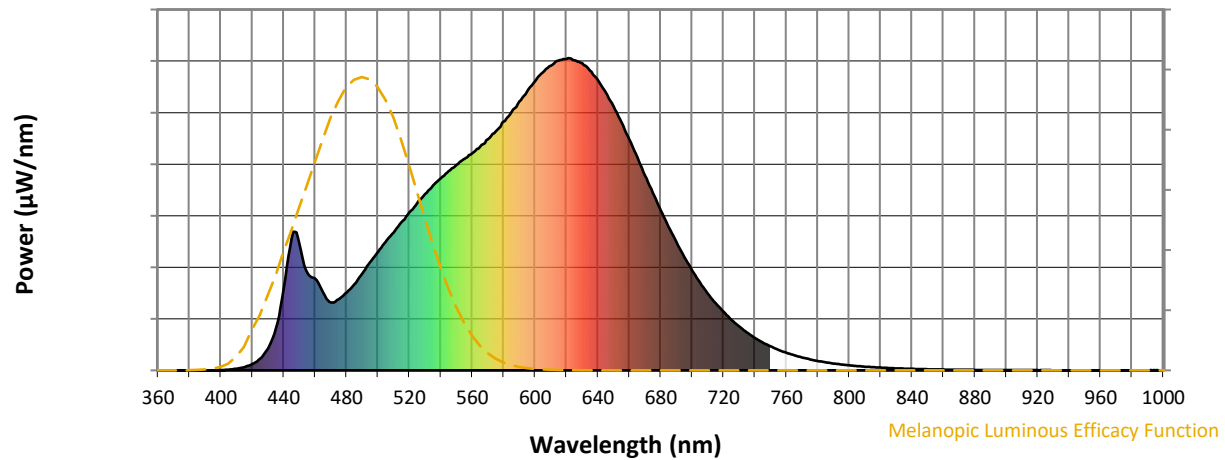
Scotopic Lumens: NR

S/P: 1.39

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	310	NR	620	998	NR	750	77	NR	880	2	NR
365	0	NR	495	347	NR	625	993	NR	755	66	NR	885	1	NR
370	0	NR	500	379	NR	630	983	NR	760	56	NR	890	1	NR
375	0	NR	505	412	NR	635	960	NR	765	48	NR	895	1	NR
380	0	NR	510	442	NR	640	930	NR	770	41	NR	900	1	NR
385	0	NR	515	475	NR	645	889	NR	775	35	NR	905	1	NR
390	0	NR	520	506	NR	650	846	NR	780	30	NR	910	1	NR
395	0	NR	525	535	NR	655	794	NR	785	26	NR	915	1	NR
400	1	NR	530	565	NR	660	740	NR	790	22	NR	920	1	NR
405	2	NR	535	592	NR	665	684	NR	795	19	NR	925	1	NR
410	6	NR	540	615	NR	670	624	NR	800	16	NR	930	0	NR
415	10	NR	545	638	NR	675	567	NR	805	14	NR	935	0	NR
420	20	NR	550	658	NR	680	513	NR	810	12	NR	940	0	NR
425	38	NR	555	678	NR	685	459	NR	815	10	NR	945	0	NR
430	70	NR	560	695	NR	690	412	NR	820	9	NR	950	0	NR
435	136	NR	565	716	NR	695	363	NR	825	8	NR	955	0	NR
440	262	NR	570	740	NR	700	320	NR	830	7	NR	960	0	NR
445	424	NR	575	765	NR	705	281	NR	835	6	NR	965	0	NR
450	406	NR	580	796	NR	710	245	NR	840	5	NR	970	0	NR
455	313	NR	585	827	NR	715	215	NR	845	4	NR	975	0	NR
460	294	NR	590	861	NR	720	188	NR	850	4	NR	980	0	NR
465	250	NR	595	894	NR	725	162	NR	855	3	NR	985	0	NR
470	217	NR	600	927	NR	730	140	NR	860	3	NR	990	0	NR
475	228	NR	605	954	NR	735	121	NR	865	2	NR	995	0	NR
480	249	NR	610	976	NR	740	104	NR	870	2	NR	1000	0	NR
485	276	NR	615	992	NR	745	89	NR	875	2	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.69

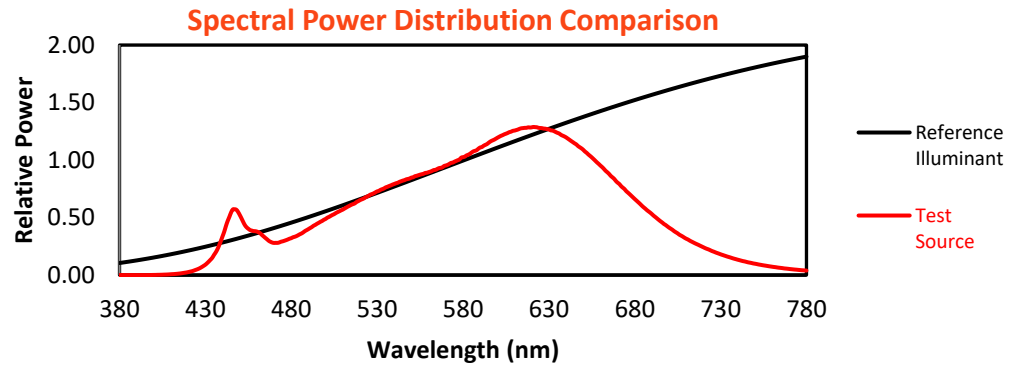
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	310	NR	620	998	NR	750	77	NR	880	2	NR
365	0	NR	495	347	NR	625	993	NR	755	66	NR	885	1	NR
370	0	NR	500	379	NR	630	983	NR	760	56	NR	890	1	NR
375	0	NR	505	412	NR	635	960	NR	765	48	NR	895	1	NR
380	0	NR	510	442	NR	640	930	NR	770	41	NR	900	1	NR
385	0	NR	515	475	NR	645	889	NR	775	35	NR	905	1	NR
390	0	NR	520	506	NR	650	846	NR	780	30	NR	910	1	NR
395	0	NR	525	535	NR	655	794	NR	785	26	NR	915	1	NR
400	1	NR	530	565	NR	660	740	NR	790	22	NR	920	1	NR
405	2	NR	535	592	NR	665	684	NR	795	19	NR	925	1	NR
410	6	NR	540	615	NR	670	624	NR	800	16	NR	930	0	NR
415	10	NR	545	638	NR	675	567	NR	805	14	NR	935	0	NR
420	20	NR	550	658	NR	680	513	NR	810	12	NR	940	0	NR
425	38	NR	555	678	NR	685	459	NR	815	10	NR	945	0	NR
430	70	NR	560	695	NR	690	412	NR	820	9	NR	950	0	NR
435	136	NR	565	716	NR	695	363	NR	825	8	NR	955	0	NR
440	262	NR	570	740	NR	700	320	NR	830	7	NR	960	0	NR
445	424	NR	575	765	NR	705	281	NR	835	6	NR	965	0	NR
450	406	NR	580	796	NR	710	245	NR	840	5	NR	970	0	NR
455	313	NR	585	827	NR	715	215	NR	845	4	NR	975	0	NR
460	294	NR	590	861	NR	720	188	NR	850	4	NR	980	0	NR
465	250	NR	595	894	NR	725	162	NR	855	3	NR	985	0	NR
470	217	NR	600	927	NR	730	140	NR	860	3	NR	990	0	NR
475	228	NR	605	954	NR	735	121	NR	865	2	NR	995	0	NR
480	249	NR	610	976	NR	740	104	NR	870	2	NR	1000	0	NR
485	276	NR	615	992	NR	745	89	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-14

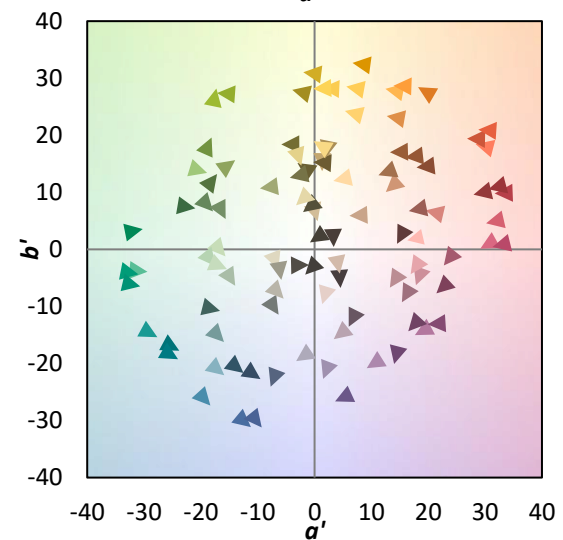
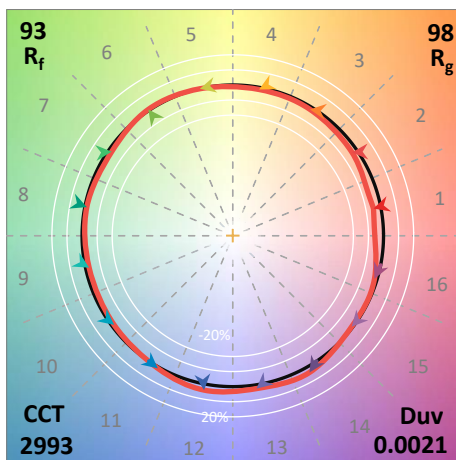
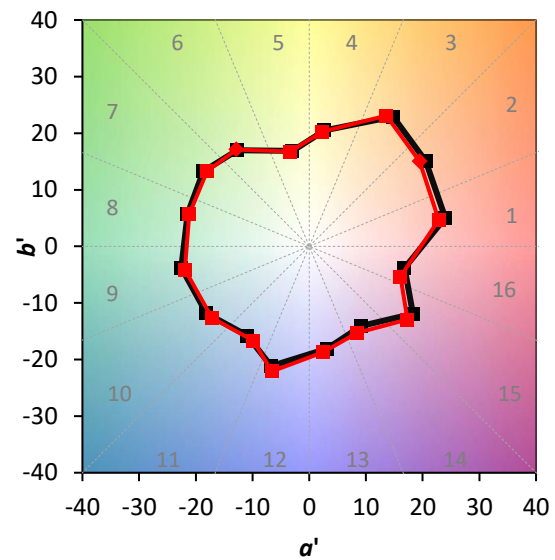
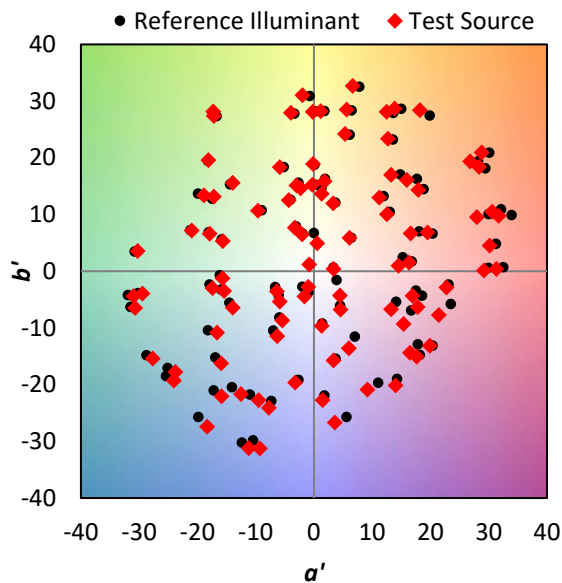
TM-30-18

Summary

$R_f = 92.6$
 $R_g = 98.5$
 $CIE R_a = 92.4$
 $R_9 = 58.2$

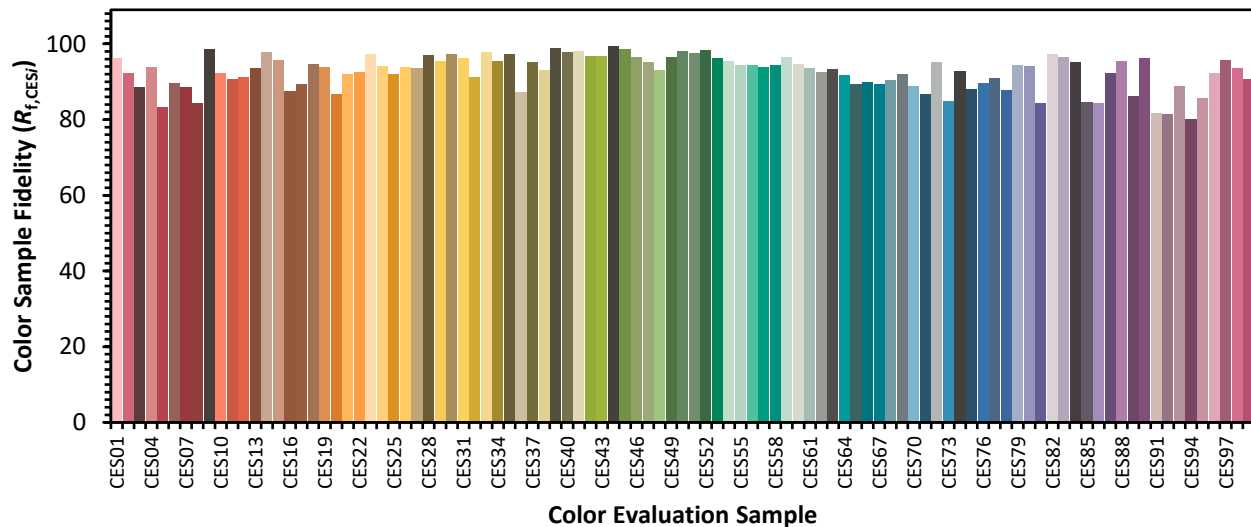


Color Vector Graphics

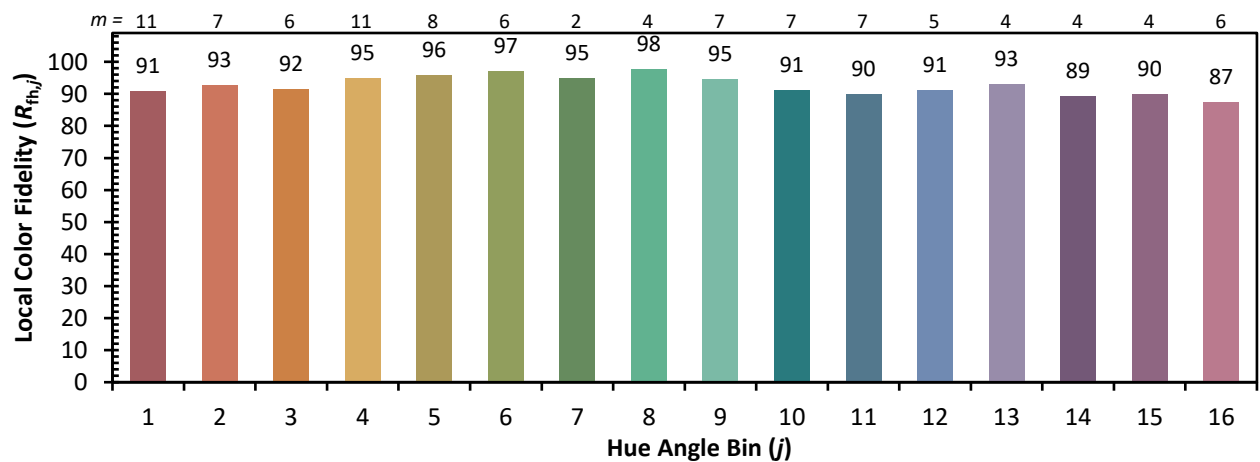
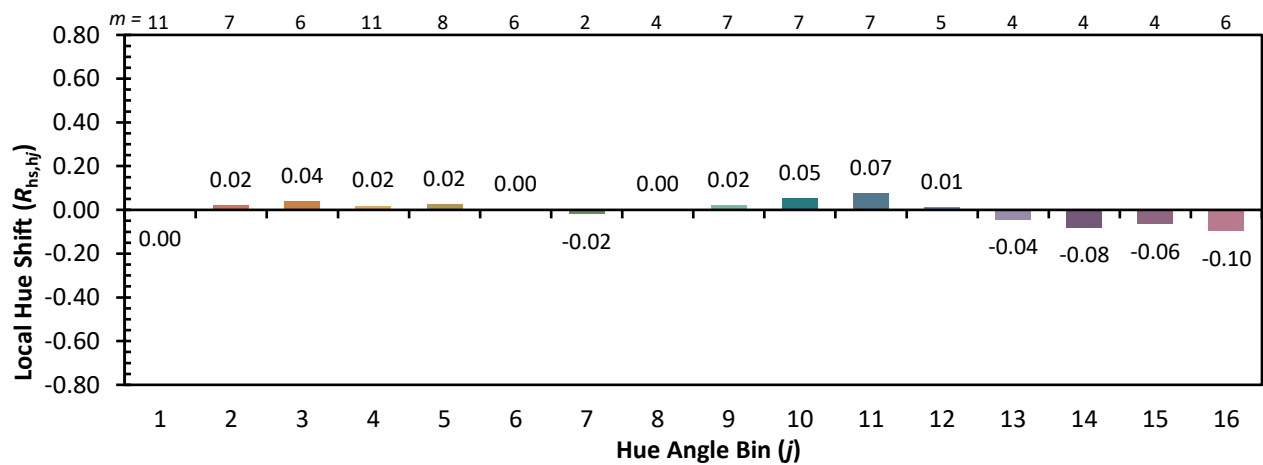
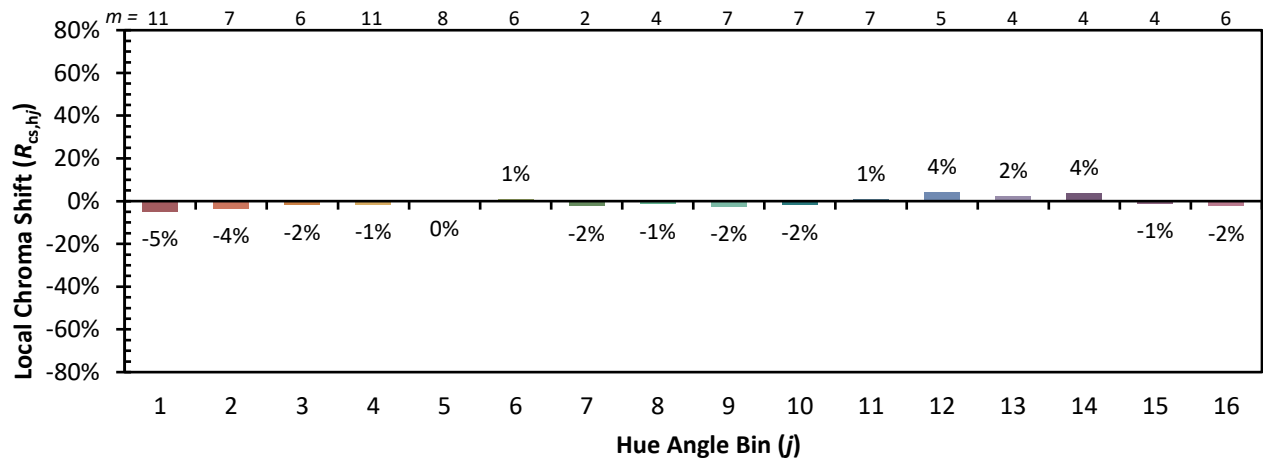


Individual Sample Fidelity Index ($R_{f,i}$)

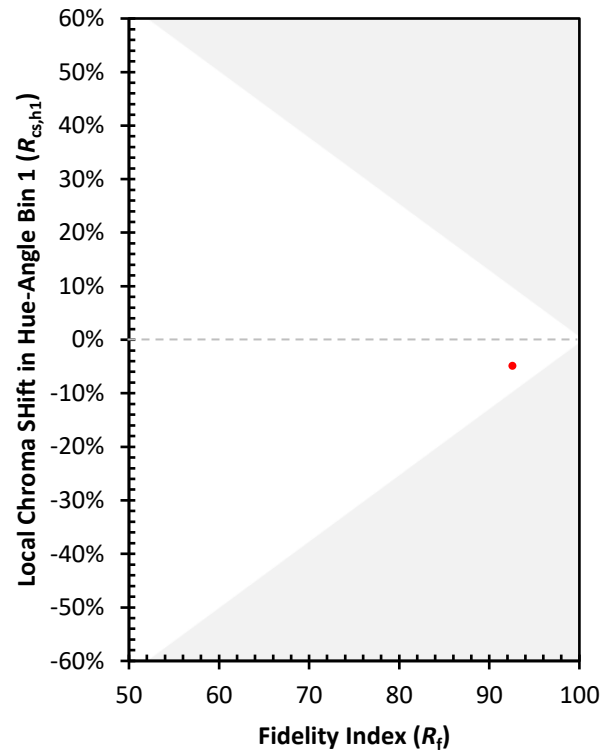
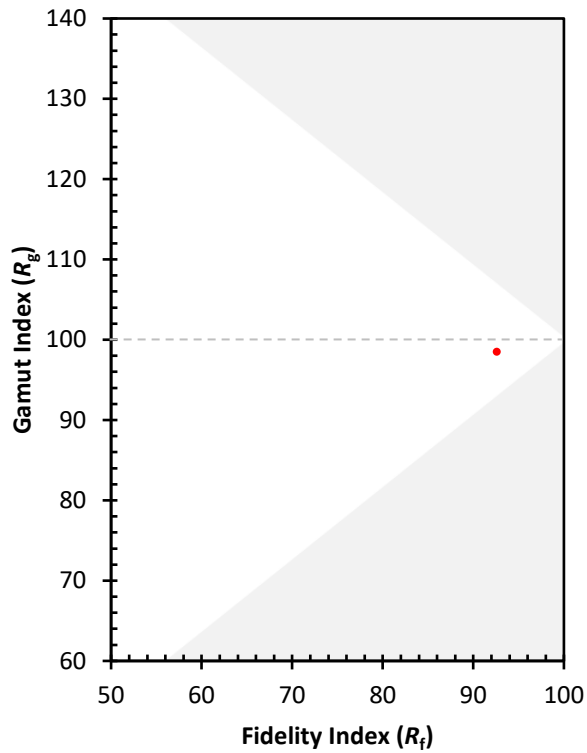
CES01 = 86	CES26 = 94	CES51 = 98	CES76 = 90
CES02 = 63	CES27 = 94	CES52 = 98	CES77 = 91
CES03 = 32	CES28 = 97	CES53 = 96	CES78 = 88
CES04 = 70	CES29 = 95	CES54 = 95	CES79 = 94
CES05 = 51	CES30 = 97	CES55 = 94	CES80 = 94
CES06 = 51	CES31 = 96	CES56 = 94	CES81 = 84
CES07 = 43	CES32 = 91	CES57 = 94	CES82 = 97
CES08 = 42	CES33 = 98	CES58 = 94	CES83 = 97
CES09 = 29	CES34 = 96	CES59 = 97	CES84 = 95
CES10 = 76	CES35 = 97	CES60 = 95	CES85 = 85
CES11 = 59	CES36 = 87	CES61 = 94	CES86 = 84
CES12 = 65	CES37 = 95	CES62 = 92	CES87 = 92
CES13 = 44	CES38 = 93	CES63 = 93	CES88 = 95
CES14 = 74	CES39 = 99	CES64 = 92	CES89 = 86
CES15 = 72	CES40 = 98	CES65 = 89	CES90 = 96
CES16 = 48	CES41 = 98	CES66 = 90	CES91 = 82
CES17 = 50	CES42 = 97	CES67 = 89	CES92 = 81
CES18 = 57	CES43 = 97	CES68 = 90	CES93 = 89
CES19 = 72	CES44 = 99	CES69 = 92	CES94 = 80
CES20 = 67	CES45 = 99	CES70 = 89	CES95 = 86
CES21 = 86	CES46 = 96	CES71 = 87	CES96 = 92
CES22 = 79	CES47 = 95	CES72 = 95	CES97 = 96
CES23 = 92	CES48 = 93	CES73 = 85	CES98 = 94
CES24 = 91	CES49 = 97	CES74 = 93	CES99 = 91
CES25 = 72	CES50 = 98	CES75 = 88	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)