

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: P1049961

Luminaire Tested: **GALN-SA9A-930-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049961
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-930-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 9xLight Square PACKAGE
90CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (126) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20285.4 lumens
Efficiency: N/A
Efficacy: 82.9 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

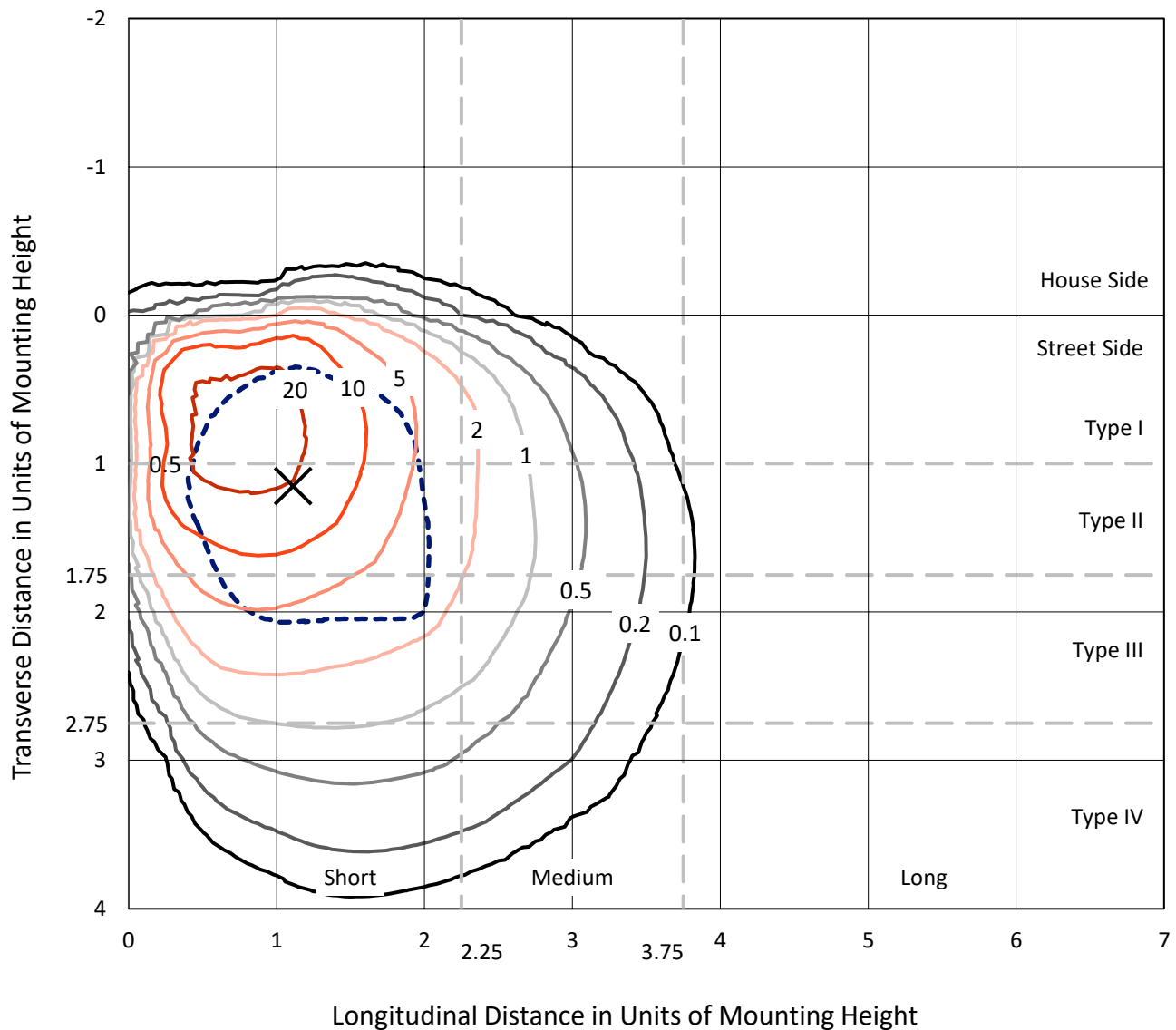
Input Watts (W): 244.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

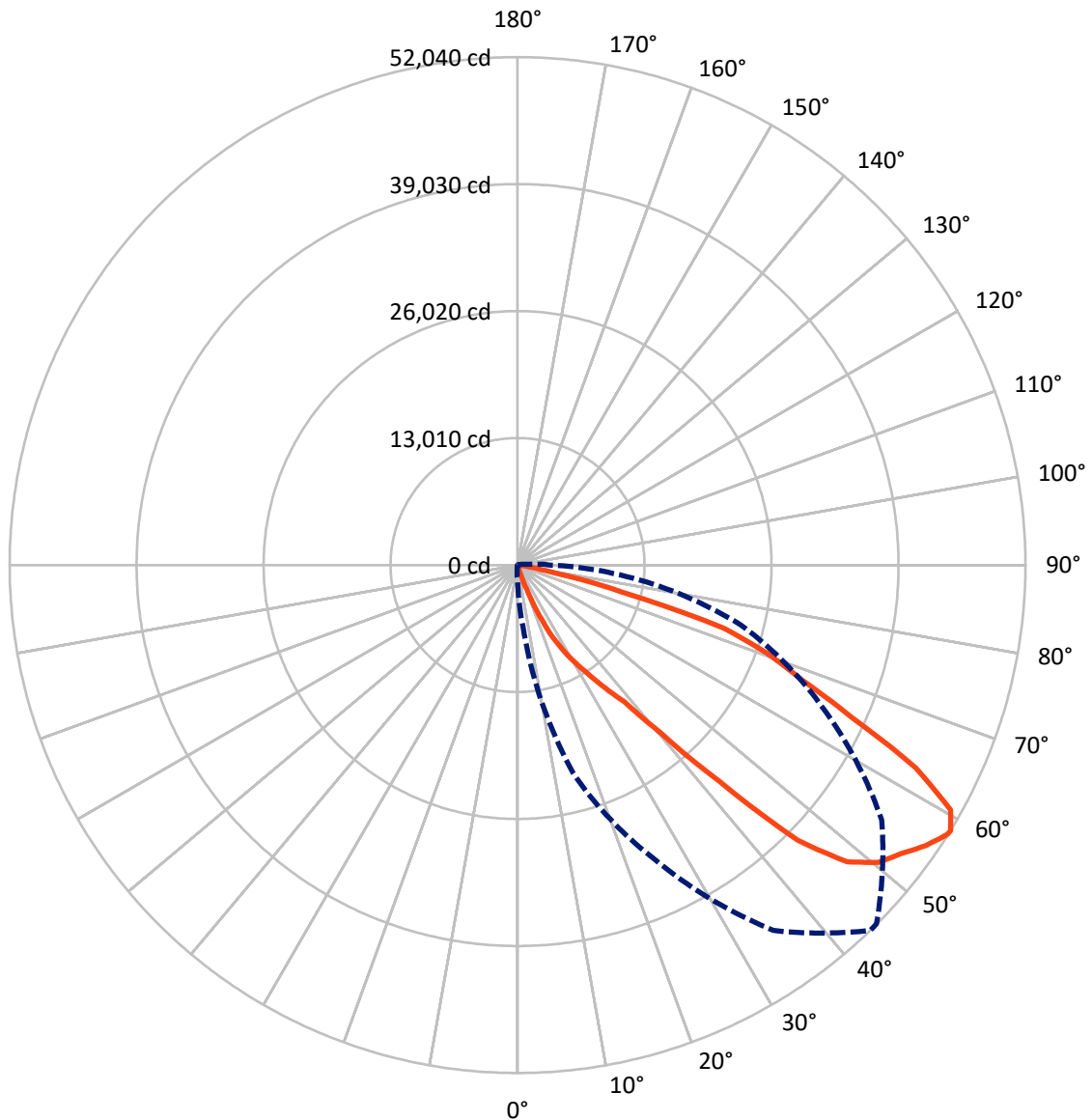
× Max cd
- - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 35.3 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	138.5	0.0	138.5
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	20146.9	0.0	20146.9
	% Fixture	99.3	0.0	99.3
Total	Lumens	20285.4	0.0	20285.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.9	0.0
10°-20°	44.5	0.2
20°-30°	480.6	2.4
30°-40°	1421.2	7.0
40°-50°	4235.9	20.9
50°-60°	6721.4	33.1
60°-70°	5606.4	27.6
70°-80°	1729.1	8.5
80°-90°	38.4	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°	20285.4	100.0
0°-180°	20285.4	100.0



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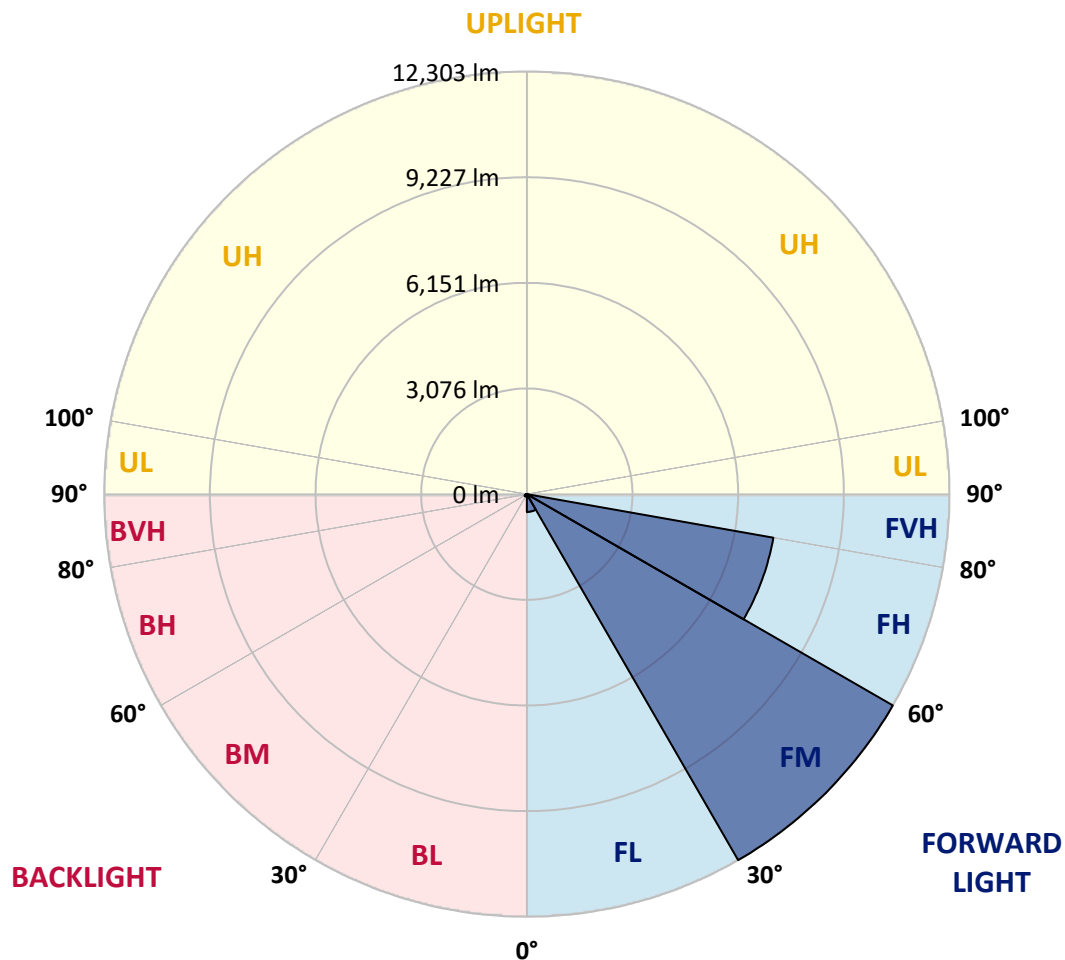
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	519.4	2.6			
FM	(30°-60°)	12302.7	60.6			
FH	(60°-80°)	7288.3	35.9			G3/7500
FVH	(80°-90°)	36.6	0.2			G1/100
BL	(0°-30°)	13.6	0.1	B0/110		
BM	(30°-60°)	75.8	0.4	B0/220		
BH	(60°-80°)	47.3	0.2	B0/110		G0/110
BVH	(80°-90°)	1.9	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°	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
2.5°	114.9	114.9	110.3	104.2	98.1	91.9	90.4	87.3	85.8	84.3
5°	119.5	119.5	118.0	113.4	107.3	102.7	102.7	98.1	95.0	91.9
7.5°	122.6	124.1	127.2	125.7	122.6	118.0	118.0	114.9	110.3	102.7
10°	127.2	131.8	137.9	141.0	142.5	142.5	141.0	139.4	131.8	121.1
12.5°	131.8	141.0	156.3	171.6	180.8	193.1	191.5	188.5	168.6	145.6
15°	141.0	154.8	187.0	231.4	300.3	343.3	360.1	344.8	278.9	196.1
17.5°	151.7	174.7	271.2	484.2	793.8	940.9	1029.8	957.7	634.4	372.4
20°	162.4	213.0	504.2	1255.0	2059.5	2540.7	2674.0	2465.6	1583.0	709.5
22.5°	180.8	298.8	1022.1	2594.3	4437.8	5159.6	5295.9	4629.4	2989.7	1400.6
25°	219.1	433.7	1762.3	4227.9	6623.0	7841.3	7784.6	6911.1	4850.0	2237.3
27.5°	274.3	631.3	2664.8	6007.0	8716.2	9790.5	9919.2	8838.8	6465.2	3290.0
30°	354.0	875.0	3633.3	7432.1	10394.2	11555.8	11577.2	10460.1	7910.2	4214.1
32.5°	430.6	1104.9	4480.7	8809.7	12047.7	13321.1	13416.1	12041.5	8989.0	5176.4
35°	488.8	1255.0	5338.9	10020.3	13714.9	15469.5	15463.4	13831.4	10267.0	6036.1
37.5°	493.4	1405.2	6115.8	11258.5	15826.5	17791.1	17985.7	16186.7	11811.7	7099.6
40°	482.7	1573.8	7099.6	13189.3	19631.5	22645.7	22817.3	20549.4	14910.2	8920.1
42.5°	495.0	1866.5	8696.3	16755.2	25949.5	30278.5	30609.5	28225.1	20606.1	12634.6
45°	559.3	2416.6	12041.5	22720.8	34955.4	40233.0	40122.6	36688.5	27233.7	18289.1
47.5°	772.3	3763.6	17000.4	28527.0	40711.1	45410.9	45505.9	41308.7	31101.4	22636.5
50°	1187.6	5758.7	21166.9	31596.4	43185.9	47901.1	47812.2	42962.2	32571.0	24777.3
52.5°	1544.7	7202.2	23257.1	32673.7	43503.1	49131.6	49125.4	43397.4	32799.3	24961.1
55°	1633.5	7311.0	23274.0	32731.9	44214.1	50742.1	50944.4	44468.5	33095.1	24158.2
57.5°	1598.3	6472.8	22302.4	33069.0	45479.9	51987.9	51998.7	45505.9	33845.9	23666.3
58°	1567.6	6341.0	22106.3	33260.6	45697.5	52040.0	52014.0	45553.4	34457.4	23647.9
60°	1396.0	5505.9	21341.6	33749.4	45374.1	50970.4	50726.8	44516.0	34367.0	23459.4
62.5°	1097.2	4295.3	20589.2	33184.0	41907.9	45792.5	45893.6	39411.6	31329.8	22360.7
65°	873.5	3201.2	19020.1	29107.8	34509.5	37604.9	37981.9	32048.5	26150.3	18934.2
67.5°	695.7	2313.9	15955.3	23174.4	27307.2	31384.9	31659.2	26907.3	20259.8	14507.2
70°	565.5	1564.6	11013.3	16948.3	22523.1	27108.0	27124.9	22353.0	15121.6	9505.4
72.5°	501.1	1083.4	6393.1	12360.3	18263.1	22089.4	21643.5	18138.9	11621.7	5630.0
75°	433.7	718.7	3135.3	7556.2	11073.1	11148.2	11318.2	8414.4	5809.3	2677.1
77.5°	357.0	510.3	1235.1	2064.1	3320.7	4250.9	4408.7	3340.6	1932.3	658.9
80°	245.2	242.1	332.5	632.9	950.1	1190.7	1111.0	859.7	505.7	252.8
82.5°	105.7	114.9	150.2	180.8	147.1	142.5	136.4	87.3	67.4	52.1
85°	33.7	30.6	32.2	32.2	26.1	19.9	19.9	9.2	0.0	0.0
87.5°	16.9	13.8	13.8	12.3	7.7	3.1	1.5	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°
88.9	0°	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
82.7	2.5°	81.2	81.2	78.2	75.1	73.6	70.5	69.0	67.4	65.9	64.4
88.9	5°	85.8	84.3	79.7	75.1	70.5	65.9	62.8	59.8	56.7	55.2
98.1	7.5°	93.5	90.4	81.2	73.6	67.4	61.3	58.2	53.6	50.6	46.0
108.8	10°	102.7	96.5	84.3	75.1	65.9	58.2	53.6	49.0	44.4	38.3
124.1	12.5°	114.9	104.2	88.9	73.6	62.8	53.6	49.0	42.9	38.3	33.7
144.0	15°	125.7	111.9	90.4	73.6	59.8	49.0	42.9	36.8	32.2	26.1
180.8	17.5°	141.0	118.0	88.9	69.0	55.2	42.9	36.8	32.2	24.5	15.3
268.2	20°	167.0	122.6	85.8	64.4	47.5	35.2	27.6	21.5	10.7	3.1
403.0	22.5°	208.4	134.9	82.7	58.2	41.4	27.6	18.4	7.7	0.0	0.0
613.0	25°	288.1	156.3	82.7	55.2	36.8	19.9	6.1	0.0	0.0	0.0
870.4	27.5°	383.1	185.4	82.7	47.5	29.1	10.7	0.0	0.0	0.0	0.0
1186.1	30°	479.6	217.6	82.7	41.4	23.0	1.5	0.0	0.0	0.0	0.0
1460.4	32.5°	571.6	245.2	84.3	35.2	15.3	0.0	0.0	0.0	0.0	0.0
1840.4	35°	665.1	249.8	82.7	30.6	9.2	0.0	0.0	0.0	0.0	0.0
2306.3	37.5°	784.6	240.6	78.2	27.6	4.6	0.0	0.0	0.0	0.0	0.0
3034.1	40°	965.4	245.2	73.6	26.1	1.5	0.0	0.0	0.0	0.0	0.0
4332.1	42.5°	1299.5	265.1	67.4	26.1	0.0	0.0	0.0	0.0	0.0	0.0
6900.4	45°	2246.5	355.5	61.3	27.6	0.0	0.0	0.0	0.0	0.0	0.0
10359.0	47.5°	3716.1	639.0	59.8	27.6	0.0	0.0	0.0	0.0	0.0	0.0
12478.3	50°	4742.8	804.5	62.8	29.1	0.0	0.0	0.0	0.0	0.0	0.0
12743.4	52.5°	4735.1	896.4	65.9	30.6	6.1	0.0	0.0	0.0	0.0	0.0
11745.8	55°	4209.5	913.3	70.5	33.7	19.9	0.0	0.0	0.0	0.0	0.0
10093.9	57.5°	3518.4	833.6	81.2	41.4	36.8	0.0	0.0	0.0	0.0	0.0
9834.9	58°	3395.8	796.8	84.3	42.9	39.8	0.0	0.0	0.0	0.0	0.0
8530.8	60°	2782.8	649.7	107.3	53.6	53.6	0.0	0.0	0.0	0.0	0.0
6993.8	62.5°	1921.6	567.0	122.6	69.0	55.2	0.0	0.0	0.0	0.0	0.0
5156.5	65°	1359.2	511.8	133.3	73.6	44.4	0.0	0.0	0.0	0.0	0.0
3664.0	67.5°	1016.0	472.0	147.1	75.1	23.0	0.0	0.0	0.0	0.0	0.0
2298.6	70°	778.5	442.9	180.8	79.7	6.1	0.0	0.0	0.0	0.0	0.0
1370.0	72.5°	634.4	409.1	219.1	82.7	0.0	0.0	0.0	0.0	0.0	0.0
821.4	75°	525.6	369.3	211.5	90.4	0.0	0.0	0.0	0.0	0.0	0.0
438.3	77.5°	349.4	286.6	193.1	90.4	0.0	0.0	0.0	0.0	0.0	0.0
156.3	80°	122.6	113.4	150.2	79.7	0.0	0.0	0.0	0.0	0.0	0.0
32.2	82.5°	18.4	15.3	21.5	27.6	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

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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
88.9	0°	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
62.8	2.5°	62.8	62.8	61.3	62.8	62.8	65.9	73.6	84.3	96.5	101.1
53.6	5°	52.1	50.6	49.0	49.0	49.0	53.6	59.8	72.0	85.8	91.9
44.4	7.5°	42.9	41.4	39.8	38.3	38.3	41.4	49.0	62.8	76.6	82.7
36.8	10°	35.2	32.2	30.6	29.1	29.1	32.2	39.8	53.6	69.0	75.1
30.6	12.5°	29.1	24.5	21.5	19.9	18.4	23.0	30.6	42.9	59.8	67.4
23.0	15°	19.9	15.3	10.7	9.2	7.7	12.3	19.9	33.7	50.6	59.8
12.3	17.5°	10.7	4.6	1.5	0.0	0.0	3.1	9.2	24.5	41.4	49.0
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.3	30.6	38.3
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	18.4	26.1
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	13.8
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
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	4.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	12.3
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°
88.9	0°	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
105.7	2.5°	108.8	107.3	104.2	101.1	101.1	101.1	105.7	110.3	114.9	114.9
95.0	5°	101.1	101.1	99.6	96.5	96.5	98.1	104.2	111.9	118.0	119.5
87.3	7.5°	93.5	96.5	93.5	91.9	93.5	95.0	101.1	110.3	119.5	122.6
81.2	10°	88.9	90.4	90.4	88.9	88.9	91.9	98.1	110.3	122.6	127.2
73.6	12.5°	82.7	85.8	84.3	84.3	84.3	87.3	95.0	108.8	125.7	131.8
65.9	15°	76.6	81.2	81.2	79.7	79.7	81.2	91.9	107.3	130.3	141.0
56.7	17.5°	70.5	75.1	76.6	73.6	73.6	76.6	87.3	107.3	133.3	151.7
46.0	20°	58.2	65.9	70.5	65.9	65.9	69.0	79.7	101.1	134.9	162.4
33.7	22.5°	46.0	53.6	59.8	58.2	58.2	59.8	73.6	96.5	136.4	180.8
19.9	25°	33.7	41.4	46.0	49.0	49.0	53.6	67.4	93.5	142.5	219.1
9.2	27.5°	19.9	29.1	35.2	38.3	39.8	46.0	62.8	90.4	153.2	274.3
0.0	30°	9.2	16.9	24.5	30.6	30.6	41.4	58.2	87.3	167.0	354.0
0.0	32.5°	0.0	7.7	12.3	21.5	23.0	33.7	53.6	84.3	187.0	430.6
0.0	35°	0.0	0.0	6.1	16.9	16.9	27.6	49.0	81.2	217.6	488.8
0.0	37.5°	0.0	0.0	0.0	12.3	13.8	24.5	47.5	79.7	223.7	493.4
0.0	40°	0.0	0.0	0.0	9.2	10.7	23.0	47.5	81.2	202.3	482.7
0.0	42.5°	0.0	0.0	0.0	6.1	7.7	23.0	47.5	84.3	182.4	495.0
0.0	45°	0.0	0.0	0.0	4.6	6.1	24.5	46.0	82.7	171.6	559.3
0.0	47.5°	0.0	0.0	0.0	6.1	9.2	24.5	44.4	81.2	173.2	772.3
0.0	50°	0.0	0.0	0.0	7.7	10.7	24.5	46.0	78.2	190.0	1187.6
0.0	52.5°	0.0	0.0	0.0	6.1	9.2	27.6	50.6	76.6	206.9	1544.7
0.0	55°	0.0	0.0	0.0	1.5	4.6	35.2	55.2	76.6	232.9	1633.5
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	39.8	62.8	81.2	275.8	1598.3
0.0	58°	0.0	0.0	0.0	0.0	0.0	39.8	64.4	81.2	278.9	1567.6
0.0	60°	0.0	0.0	0.0	0.0	0.0	39.8	70.5	90.4	300.3	1396.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	33.7	84.3	113.4	312.6	1097.2
0.0	65°	0.0	0.0	0.0	0.0	0.0	27.6	99.6	124.1	321.8	873.5
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	26.1	102.7	125.7	326.4	695.7
0.0	70°	0.0	0.0	0.0	0.0	0.0	27.6	101.1	134.9	341.7	565.5
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	30.6	91.9	148.6	341.7	501.1
0.0	75°	0.0	0.0	0.0	0.0	0.0	32.2	85.8	167.0	311.1	433.7
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	30.6	84.3	194.6	277.4	357.0
0.0	80°	3.1	4.6	4.6	3.1	3.1	26.1	82.7	197.7	236.0	245.2
1.5	82.5°	9.2	12.3	10.7	7.7	7.7	23.0	73.6	165.5	122.6	105.7
9.2	85°	16.9	19.9	19.9	16.9	16.9	21.5	46.0	59.8	41.4	33.7
16.9	87.5°	23.0	26.1	26.1	23.0	23.0	21.5	19.9	18.4	16.9	16.9
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

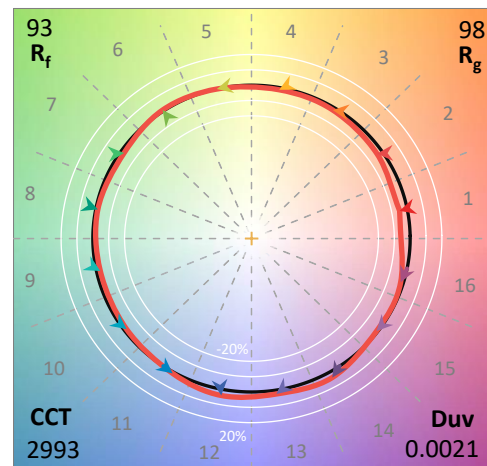
Test Information

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

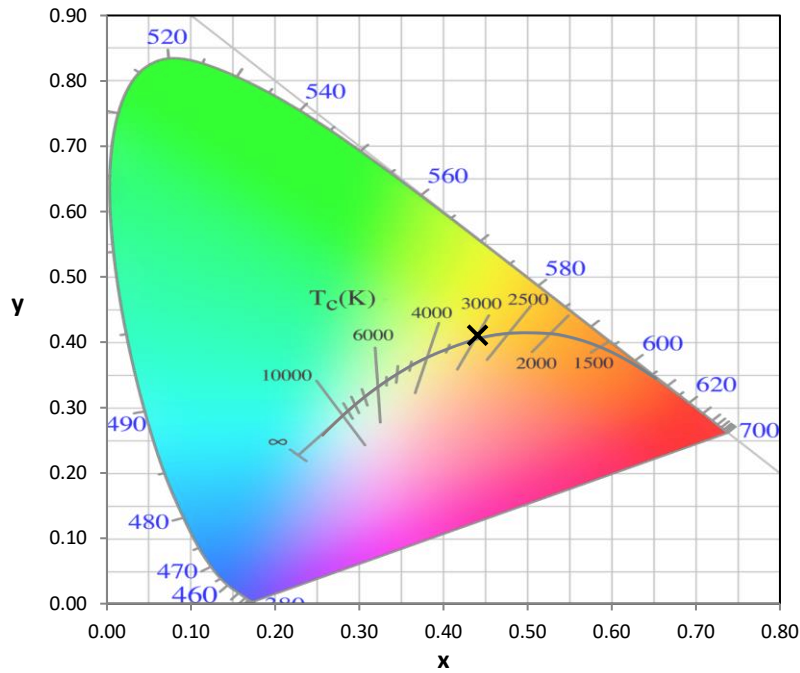
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-14

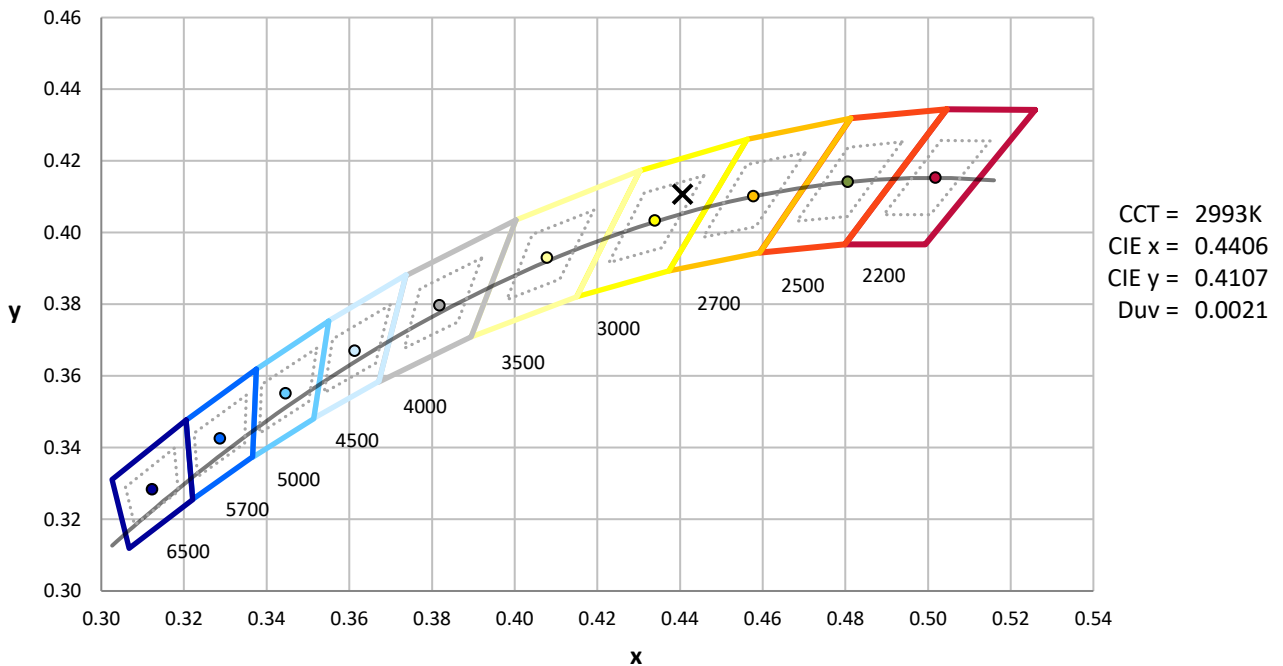
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-14

CIE 1931 Chromaticity Diagram



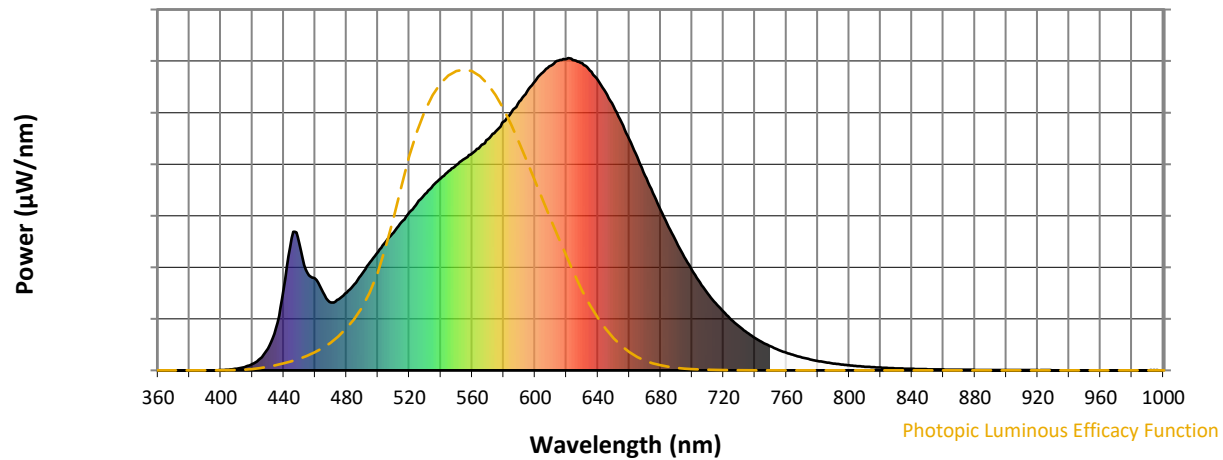
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-14

Photopic Flux vs. Wavelength

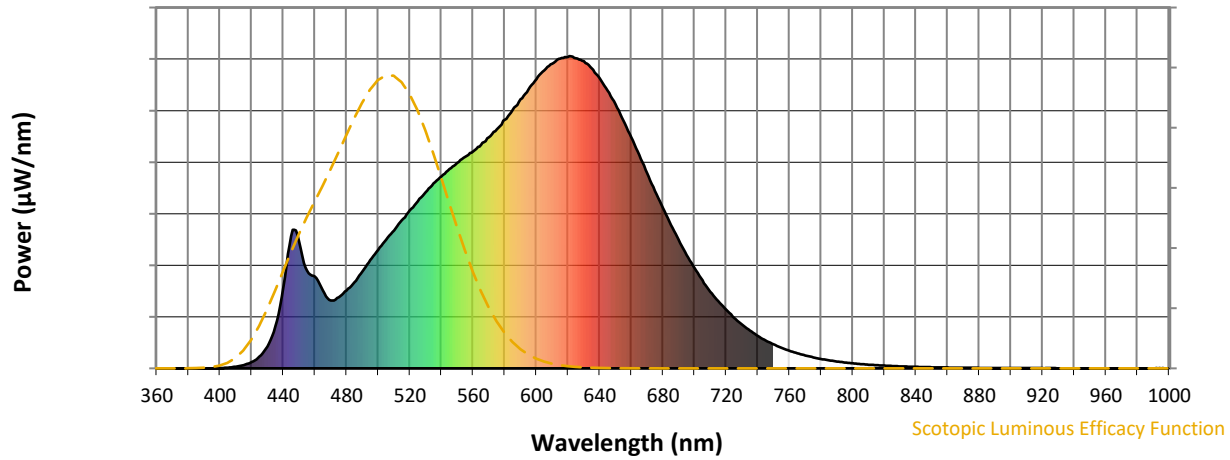


Photopic Lumens: NR

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



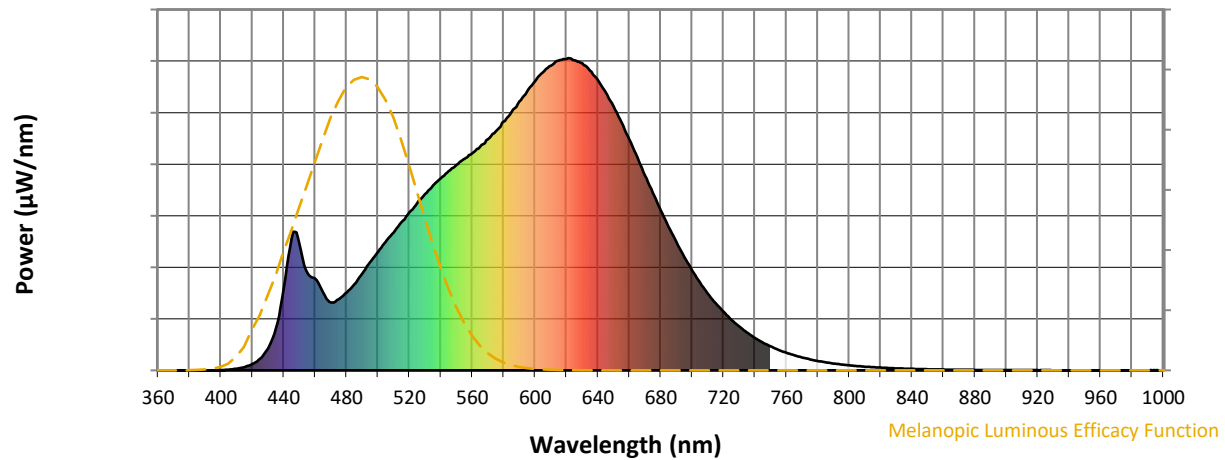
Scotopic Lumens: NR

S/P: 1.39

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.69

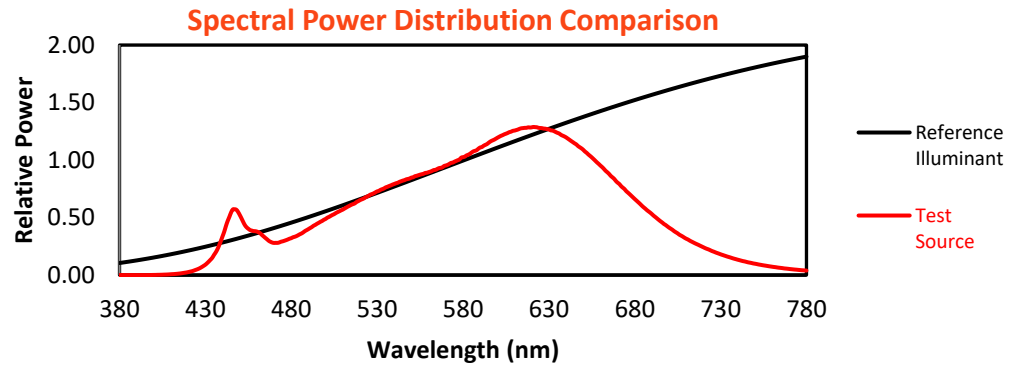
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	310	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

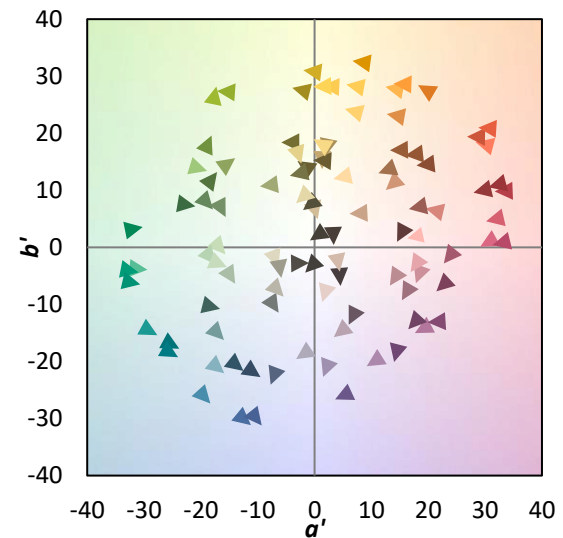
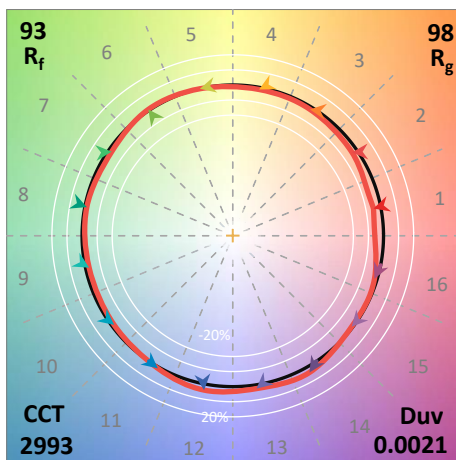
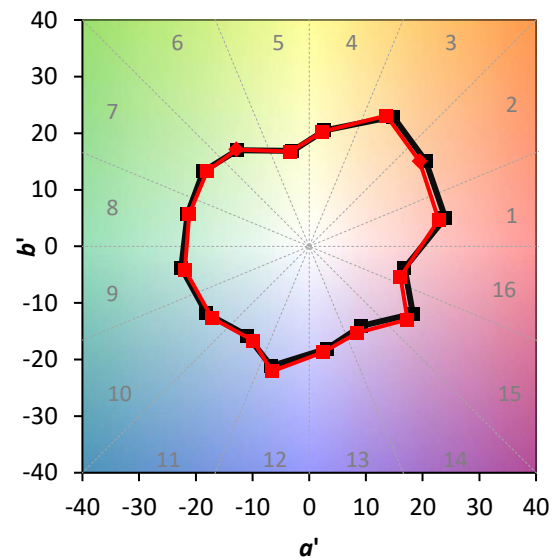
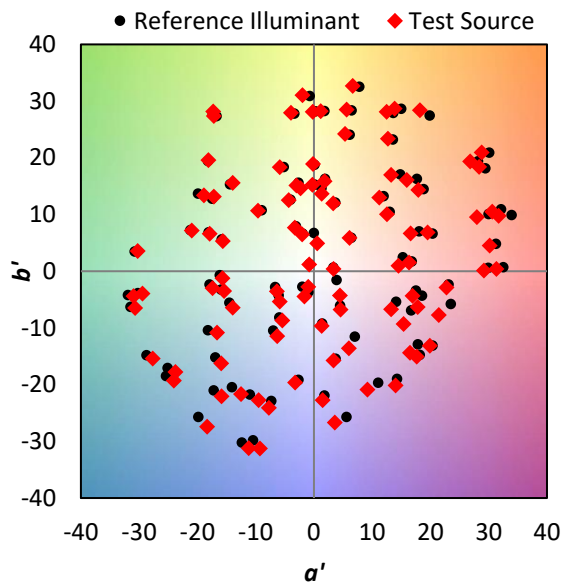
TM-30-18

Summary

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

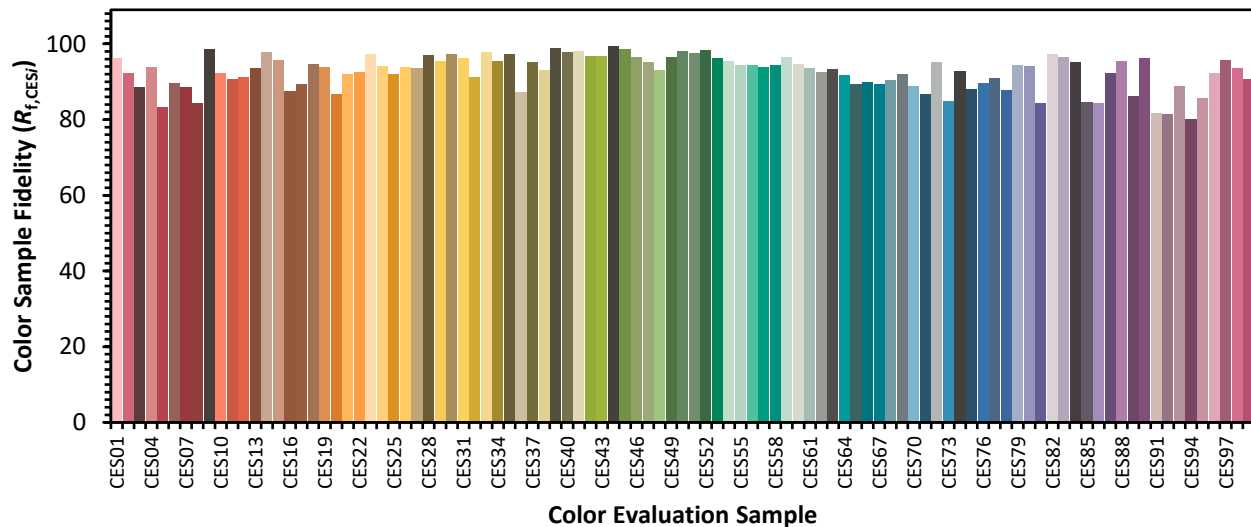


Color Vector Graphics

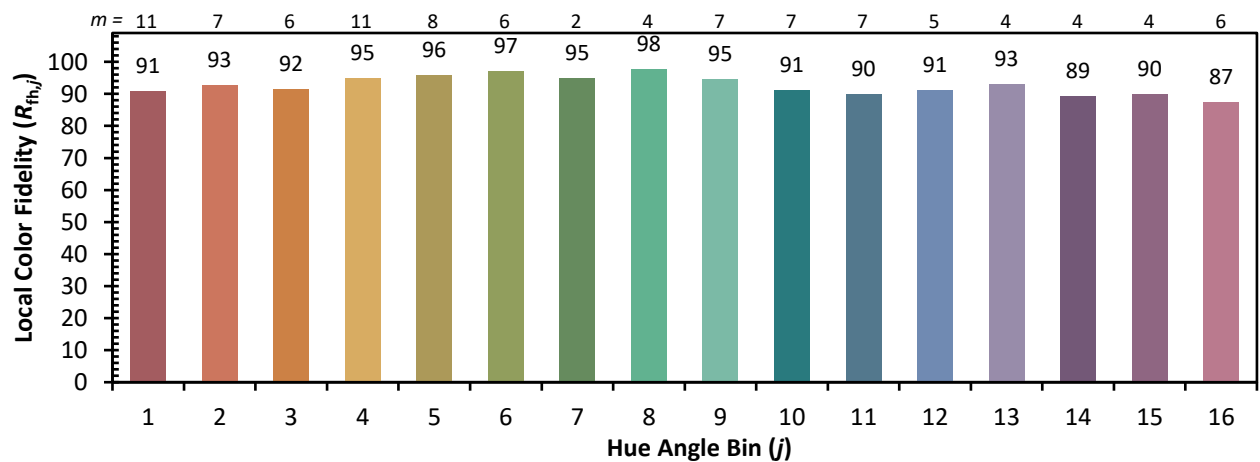
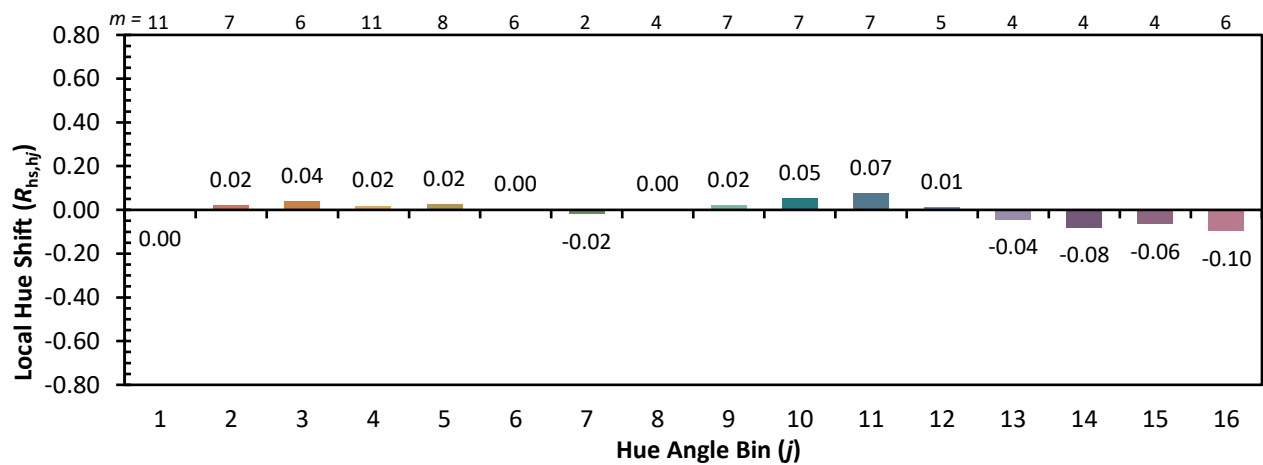
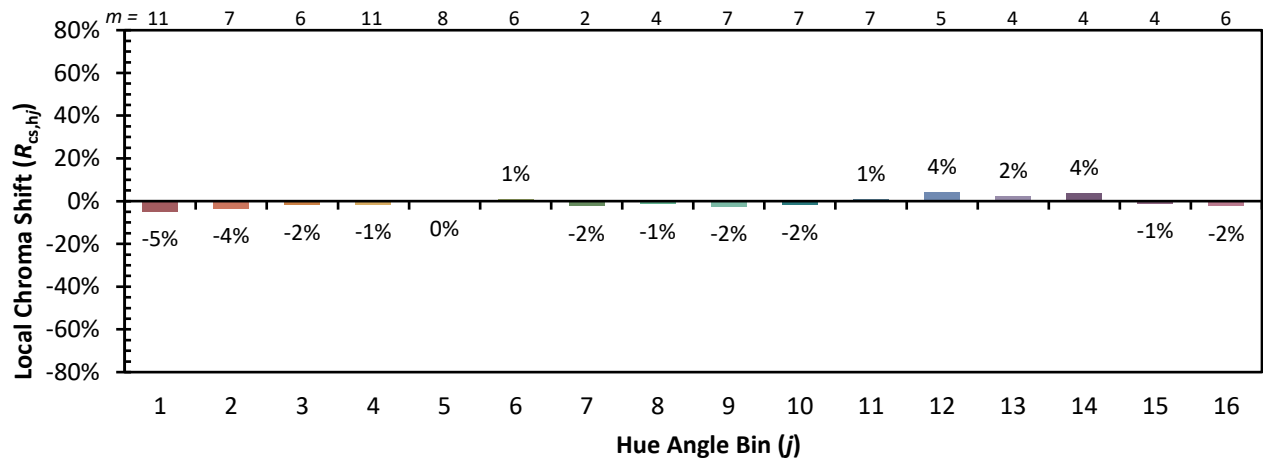


Individual Sample Fidelity Index ($R_{f,i}$)

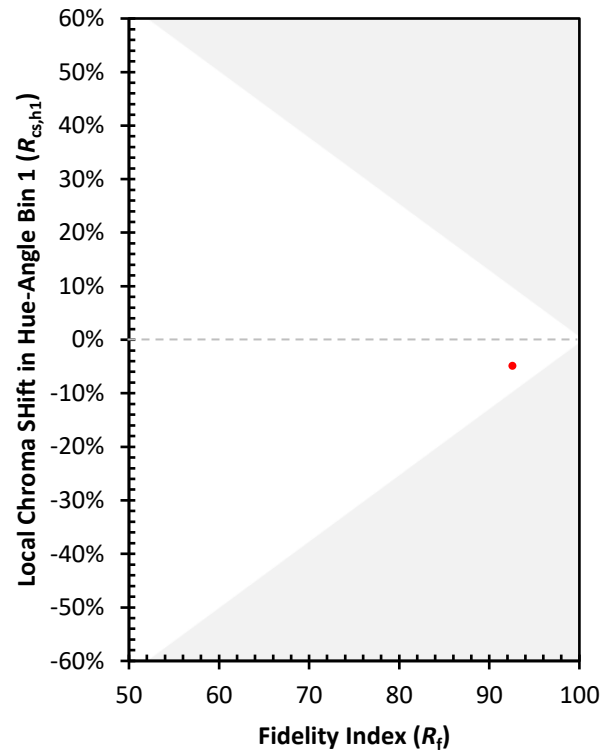
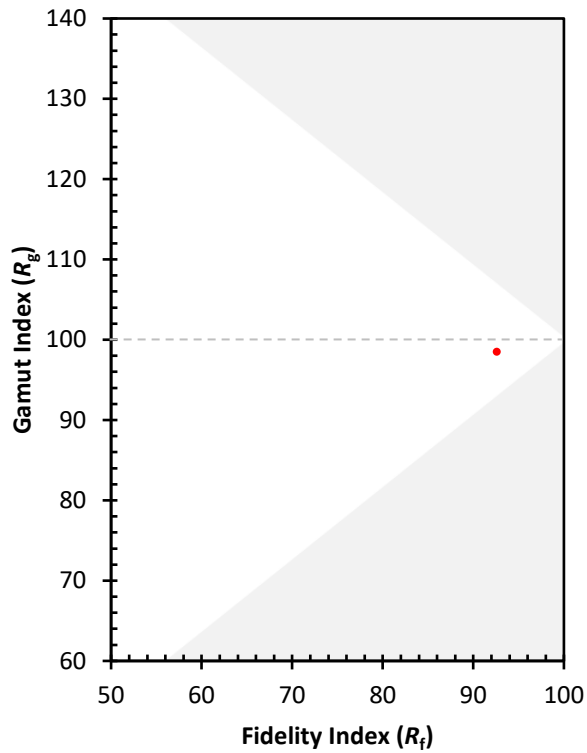
CES01 = 86	CES26 = 94	CES51 = 98	CES76 = 90
CES02 = 63	CES27 = 94	CES52 = 98	CES77 = 91
CES03 = 32	CES28 = 97	CES53 = 96	CES78 = 88
CES04 = 70	CES29 = 95	CES54 = 95	CES79 = 94
CES05 = 51	CES30 = 97	CES55 = 94	CES80 = 94
CES06 = 51	CES31 = 96	CES56 = 94	CES81 = 84
CES07 = 43	CES32 = 91	CES57 = 94	CES82 = 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)