

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: P1049954

Luminaire Tested: **GALN-SA7B-930-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049954
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-930-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 7xLight Square PACKAGE
90CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (98) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19678.8 lumens
Efficiency: N/A
Efficacy: 78.9 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): 249.5
Input Voltage (V): 120
Input Current (A_{in}): 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

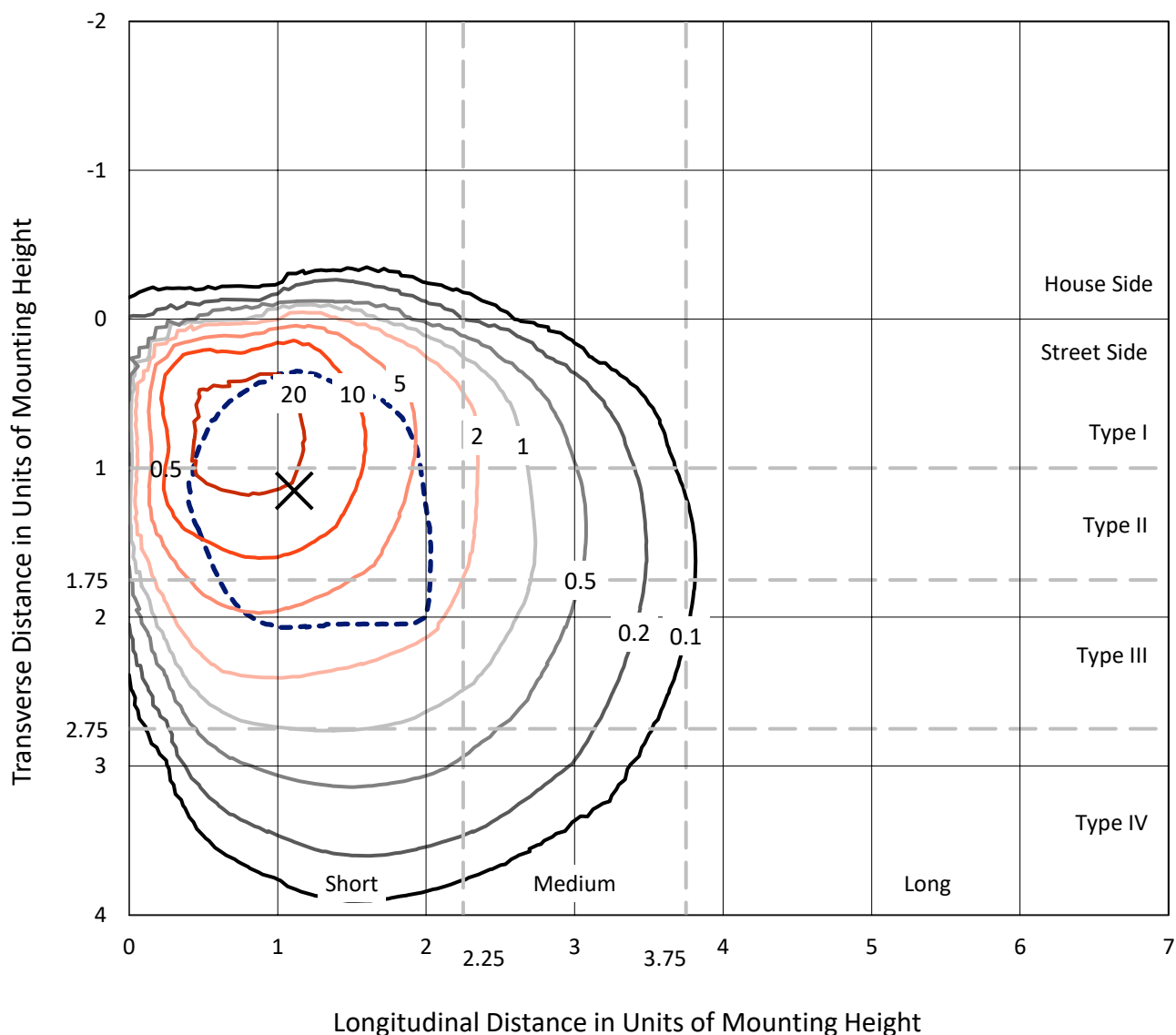
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

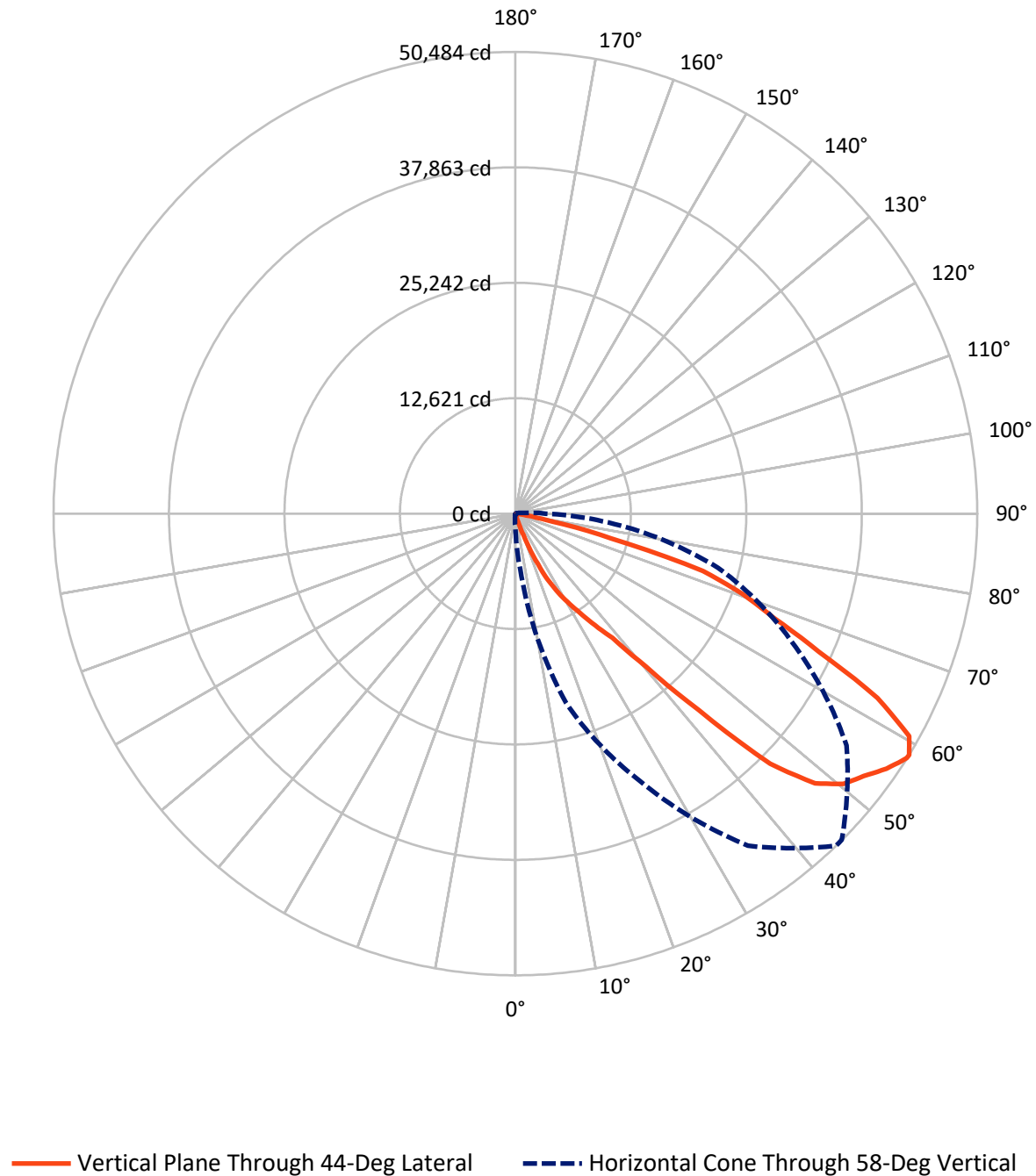


Based on 20 foot mounting height. Maximum calculated value = 34.3 fc

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	134.4	0.0	134.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	19544.4	0.0	19544.4
	% Fixture	99.3	0.0	99.3
Total	Lumens	19678.8	0.0	19678.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.7	0.0
10°-20°	43.2	0.2
20°-30°	466.2	2.4
30°-40°	1378.7	7.0
40°-50°	4109.2	20.9
50°-60°	6520.4	33.1
60°-70°	5438.8	27.6
70°-80°	1677.4	8.5
80°-90°	37.3	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°	19678.8	100.0
0°-180°	19678.8	100.0

Coefficient of Utilization



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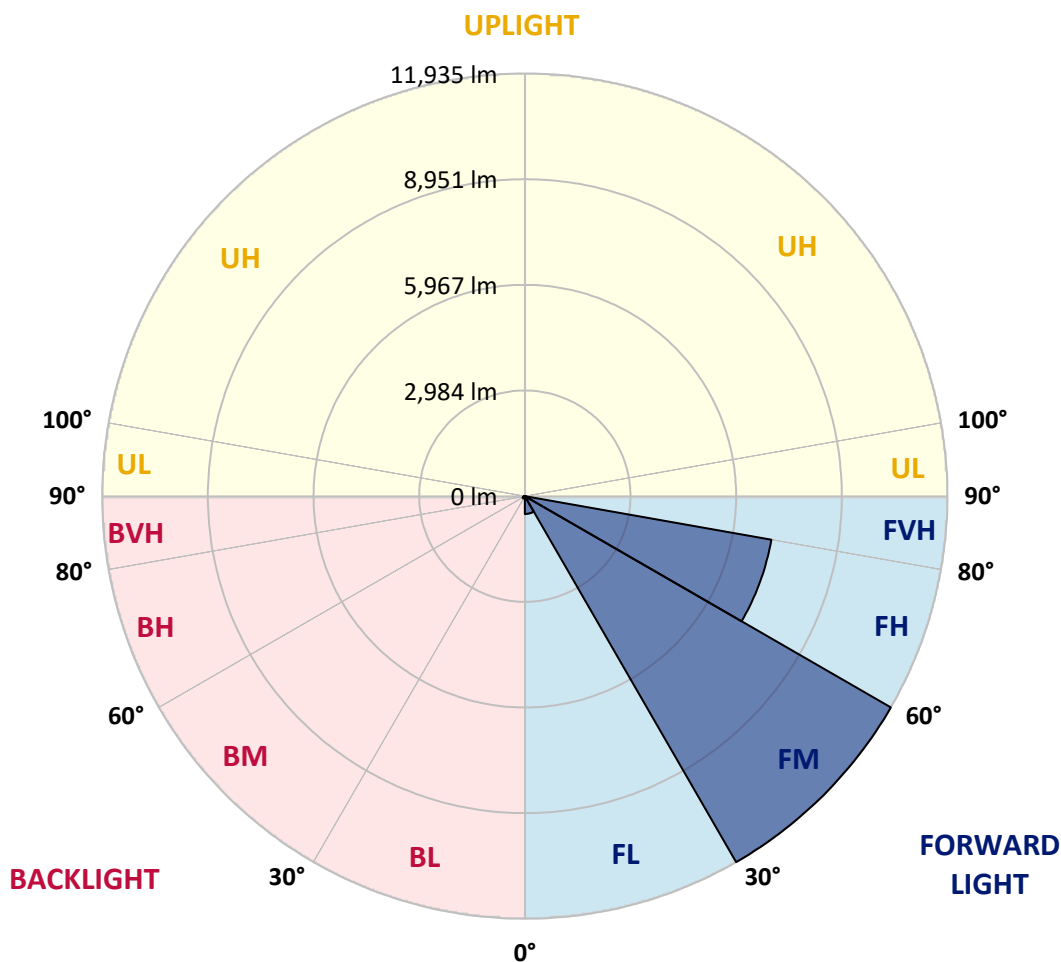
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	503.9	2.6			
FM	(30°-60°)	11934.8	60.6			
FH	(60°-80°)	7070.3	35.9			G3/7500
FVH	(80°-90°)	35.5	0.2			G1/100
BL	(0°-30°)	13.1	0.1	B0/110		
BM	(30°-60°)	73.5	0.4	B0/220		
BH	(60°-80°)	45.9	0.2	B0/110		G0/110
BVH	(80°-90°)	1.8	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°	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
2.5°	111.5	111.5	107.0	101.1	95.1	89.2	87.7	84.7	83.2	81.8
5°	116.0	116.0	114.5	110.0	104.1	99.6	99.6	95.1	92.2	89.2
7.5°	118.9	120.4	123.4	121.9	118.9	114.5	114.5	111.5	107.0	99.6
10°	123.4	127.8	133.8	136.8	138.3	138.3	136.8	135.3	127.8	117.4
12.5°	127.8	136.8	151.6	166.5	175.4	187.3	185.8	182.8	163.5	141.2
15°	136.8	150.1	181.4	224.5	291.4	333.0	349.3	334.5	270.6	190.3
17.5°	147.2	169.5	263.1	469.8	770.0	912.8	999.0	929.1	615.4	361.2
20°	157.6	206.6	489.1	1217.5	1997.9	2464.7	2594.1	2391.9	1535.6	688.3
22.5°	175.4	289.9	991.5	2516.8	4305.1	5005.3	5137.6	4490.9	2900.3	1358.7
25°	212.6	420.7	1709.5	4101.4	6424.9	7606.8	7551.7	6704.4	4705.0	2170.4
27.5°	266.1	612.5	2585.1	5827.3	8455.6	9497.7	9622.5	8574.5	6271.8	3191.7
30°	343.4	848.8	3524.6	7209.8	10083.4	11210.2	11231.0	10147.3	7673.6	4088.1
32.5°	417.7	1071.8	4346.7	8546.3	11687.4	12922.7	13014.9	11681.4	8720.2	5021.6
35°	474.2	1217.5	5179.2	9720.6	13304.8	15006.9	15000.9	13417.7	9960.0	5855.6
37.5°	478.7	1363.2	5932.9	10921.8	15353.2	17259.0	17447.8	15702.6	11458.4	6887.3
40°	468.3	1526.7	6887.3	12794.9	19044.4	21968.5	22134.9	19934.8	14464.3	8653.3
42.5°	480.2	1810.6	8436.3	16254.1	25173.5	29373.0	29694.1	27381.0	19989.8	12256.7
45°	542.6	2344.3	11681.4	22041.3	33910.0	39029.8	38922.7	35591.3	26419.2	17742.1
47.5°	749.2	3651.0	16491.9	27673.9	39493.6	44052.9	44145.0	40073.3	30171.3	21959.5
50°	1152.1	5586.5	20533.9	30651.5	41894.4	46468.5	46382.3	41677.3	31596.9	24036.3
52.5°	1498.5	6986.9	22561.6	31696.5	42202.1	47662.2	47656.3	42099.5	31818.4	24214.7
55°	1584.7	7092.4	22577.9	31753.0	42891.8	49224.6	49420.8	43138.6	32105.3	23435.7
57.5°	1550.5	6279.2	21635.5	32080.1	44119.7	50433.2	50443.6	44145.0	32833.8	22958.5
58°	1520.8	6151.4	21445.2	32265.9	44330.8	50483.7	50458.5	44191.1	33426.9	22940.7
60°	1354.3	5341.2	20703.4	32740.1	44017.2	49446.1	49209.7	43184.7	33339.2	22757.8
62.5°	1064.4	4166.8	19973.5	32191.6	40654.6	44423.0	44521.1	38233.0	30392.8	21692.0
65°	847.3	3105.4	18451.2	28237.3	33477.4	36480.3	36846.0	31090.0	25368.2	18368.0
67.5°	674.9	2244.7	15478.1	22481.3	26490.6	30446.3	30712.4	26102.6	19653.9	14073.3
70°	548.5	1517.8	10683.9	16441.4	21849.5	26297.3	26313.7	21684.5	14669.4	9221.2
72.5°	486.1	1051.0	6201.9	11990.6	17716.9	21428.8	20996.2	17596.5	11274.1	5461.6
75°	420.7	697.2	3041.5	7330.2	10741.9	10814.8	10979.8	8162.7	5635.6	2597.0
77.5°	346.4	495.0	1198.2	2002.4	3221.4	4123.7	4276.8	3240.7	1874.6	639.2
80°	237.9	234.9	322.6	614.0	921.7	1155.1	1077.8	834.0	490.6	245.3
82.5°	102.6	111.5	145.7	175.4	142.7	138.3	132.3	84.7	65.4	50.5
85°	32.7	29.7	31.2	31.2	25.3	19.3	19.3	8.9	0.0	0.0
87.5°	16.4	13.4	13.4	11.9	7.4	3.0	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°
86.2	0°	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
80.3	2.5°	78.8	78.8	75.8	72.8	71.4	68.4	66.9	65.4	63.9	62.4
86.2	5°	83.2	81.8	77.3	72.8	68.4	63.9	60.9	58.0	55.0	53.5
95.1	7.5°	90.7	87.7	78.8	71.4	65.4	59.5	56.5	52.0	49.1	44.6
105.5	10°	99.6	93.7	81.8	72.8	63.9	56.5	52.0	47.6	43.1	37.2
120.4	12.5°	111.5	101.1	86.2	71.4	60.9	52.0	47.6	41.6	37.2	32.7
139.7	15°	121.9	108.5	87.7	71.4	58.0	47.6	41.6	35.7	31.2	25.3
175.4	17.5°	136.8	114.5	86.2	66.9	53.5	41.6	35.7	31.2	23.8	14.9
260.1	20°	162.0	118.9	83.2	62.4	46.1	34.2	26.8	20.8	10.4	3.0
391.0	22.5°	202.2	130.8	80.3	56.5	40.1	26.8	17.8	7.4	0.0	0.0
594.6	25°	279.5	151.6	80.3	53.5	35.7	19.3	5.9	0.0	0.0	0.0
844.4	27.5°	371.6	179.9	80.3	46.1	28.2	10.4	0.0	0.0	0.0	0.0
1150.6	30°	465.3	211.1	80.3	40.1	22.3	1.5	0.0	0.0	0.0	0.0
1416.7	32.5°	554.5	237.9	81.8	34.2	14.9	0.0	0.0	0.0	0.0	0.0
1785.4	35°	645.2	242.3	80.3	29.7	8.9	0.0	0.0	0.0	0.0	0.0
2237.3	37.5°	761.1	233.4	75.8	26.8	4.5	0.0	0.0	0.0	0.0	0.0
2943.4	40°	936.5	237.9	71.4	25.3	1.5	0.0	0.0	0.0	0.0	0.0
4202.5	42.5°	1260.6	257.2	65.4	25.3	0.0	0.0	0.0	0.0	0.0	0.0
6694.0	45°	2179.3	344.9	59.5	26.8	0.0	0.0	0.0	0.0	0.0	0.0
10049.2	47.5°	3604.9	619.9	58.0	26.8	0.0	0.0	0.0	0.0	0.0	0.0
12105.1	50°	4600.9	780.4	60.9	28.2	0.0	0.0	0.0	0.0	0.0	0.0
12362.3	52.5°	4593.5	869.6	63.9	29.7	5.9	0.0	0.0	0.0	0.0	0.0
11394.5	55°	4083.6	886.0	68.4	32.7	19.3	0.0	0.0	0.0	0.0	0.0
9792.0	57.5°	3413.2	808.7	78.8	40.1	35.7	0.0	0.0	0.0	0.0	0.0
9540.8	58°	3294.2	773.0	81.8	41.6	38.7	0.0	0.0	0.0	0.0	0.0
8275.7	60°	2699.6	630.3	104.1	52.0	52.0	0.0	0.0	0.0	0.0	0.0
6784.7	62.5°	1864.2	550.0	118.9	66.9	53.5	0.0	0.0	0.0	0.0	0.0
5002.3	65°	1318.6	496.5	129.3	71.4	43.1	0.0	0.0	0.0	0.0	0.0
3554.4	67.5°	985.6	457.9	142.7	72.8	22.3	0.0	0.0	0.0	0.0	0.0
2229.8	70°	755.2	429.6	175.4	77.3	5.9	0.0	0.0	0.0	0.0	0.0
1329.0	72.5°	615.4	396.9	212.6	80.3	0.0	0.0	0.0	0.0	0.0	0.0
796.8	75°	509.9	358.3	205.1	87.7	0.0	0.0	0.0	0.0	0.0	0.0
425.2	77.5°	338.9	278.0	187.3	87.7	0.0	0.0	0.0	0.0	0.0	0.0
151.6	80°	118.9	110.0	145.7	77.3	0.0	0.0	0.0	0.0	0.0	0.0
31.2	82.5°	17.8	14.9	20.8	26.8	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°
86.2	0°	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
60.9	2.5°	60.9	60.9	59.5	60.9	60.9	63.9	71.4	81.8	93.7	98.1
52.0	5°	50.5	49.1	47.6	47.6	47.6	52.0	58.0	69.9	83.2	89.2
43.1	7.5°	41.6	40.1	38.7	37.2	37.2	40.1	47.6	60.9	74.3	80.3
35.7	10°	34.2	31.2	29.7	28.2	28.2	31.2	38.7	52.0	66.9	72.8
29.7	12.5°	28.2	23.8	20.8	19.3	17.8	22.3	29.7	41.6	58.0	65.4
22.3	15°	19.3	14.9	10.4	8.9	7.4	11.9	19.3	32.7	49.1	58.0
11.9	17.5°	10.4	4.5	1.5	0.0	0.0	3.0	8.9	23.8	40.1	47.6
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9	29.7	37.2
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	17.8	25.3
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	13.4
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
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	4.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	11.9
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°
86.2	0°	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
102.6	2.5°	105.5	104.1	101.1	98.1	98.1	98.1	102.6	107.0	111.5	111.5
92.2	5°	98.1	98.1	96.6	93.7	93.7	95.1	101.1	108.5	114.5	116.0
84.7	7.5°	90.7	93.7	90.7	89.2	90.7	92.2	98.1	107.0	116.0	118.9
78.8	10°	86.2	87.7	87.7	86.2	86.2	89.2	95.1	107.0	118.9	123.4
71.4	12.5°	80.3	83.2	81.8	81.8	81.8	84.7	92.2	105.5	121.9	127.8
63.9	15°	74.3	78.8	78.8	77.3	77.3	78.8	89.2	104.1	126.4	136.8
55.0	17.5°	68.4	72.8	74.3	71.4	71.4	74.3	84.7	104.1	129.3	147.2
44.6	20°	56.5	63.9	68.4	63.9	63.9	66.9	77.3	98.1	130.8	157.6
32.7	22.5°	44.6	52.0	58.0	56.5	56.5	58.0	71.4	93.7	132.3	175.4
19.3	25°	32.7	40.1	44.6	47.6	47.6	52.0	65.4	90.7	138.3	212.6
8.9	27.5°	19.3	28.2	34.2	37.2	38.7	44.6	60.9	87.7	148.7	266.1
0.0	30°	8.9	16.4	23.8	29.7	29.7	40.1	56.5	84.7	162.0	343.4
0.0	32.5°	0.0	7.4	11.9	20.8	22.3	32.7	52.0	81.8	181.4	417.7
0.0	35°	0.0	0.0	5.9	16.4	16.4	26.8	47.6	78.8	211.1	474.2
0.0	37.5°	0.0	0.0	0.0	11.9	13.4	23.8	46.1	77.3	217.0	478.7
0.0	40°	0.0	0.0	0.0	8.9	10.4	22.3	46.1	78.8	196.2	468.3
0.0	42.5°	0.0	0.0	0.0	5.9	7.4	22.3	46.1	81.8	176.9	480.2
0.0	45°	0.0	0.0	0.0	4.5	5.9	23.8	44.6	80.3	166.5	542.6
0.0	47.5°	0.0	0.0	0.0	5.9	8.9	23.8	43.1	78.8	168.0	749.2
0.0	50°	0.0	0.0	0.0	7.4	10.4	23.8	44.6	75.8	184.3	1152.1
0.0	52.5°	0.0	0.0	0.0	5.9	8.9	26.8	49.1	74.3	200.7	1498.5
0.0	55°	0.0	0.0	0.0	1.5	4.5	34.2	53.5	74.3	226.0	1584.7
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	38.7	60.9	78.8	267.6	1550.5
0.0	58°	0.0	0.0	0.0	0.0	0.0	38.7	62.4	78.8	270.6	1520.8
0.0	60°	0.0	0.0	0.0	0.0	0.0	38.7	68.4	87.7	291.4	1354.3
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	32.7	81.8	110.0	303.3	1064.4
0.0	65°	0.0	0.0	0.0	0.0	0.0	26.8	96.6	120.4	312.2	847.3
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	25.3	99.6	121.9	316.6	674.9
0.0	70°	0.0	0.0	0.0	0.0	0.0	26.8	98.1	130.8	331.5	548.5
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	29.7	89.2	144.2	331.5	486.1
0.0	75°	0.0	0.0	0.0	0.0	0.0	31.2	83.2	162.0	301.8	420.7
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	29.7	81.8	188.8	269.1	346.4
0.0	80°	3.0	4.5	4.5	3.0	3.0	25.3	80.3	191.8	228.9	237.9
1.5	82.5°	8.9	11.9	10.4	7.4	7.4	22.3	71.4	160.5	118.9	102.6
8.9	85°	16.4	19.3	19.3	16.4	16.4	20.8	44.6	58.0	40.1	32.7
16.4	87.5°	22.3	25.3	25.3	22.3	22.3	20.8	19.3	17.8	16.4	16.4
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

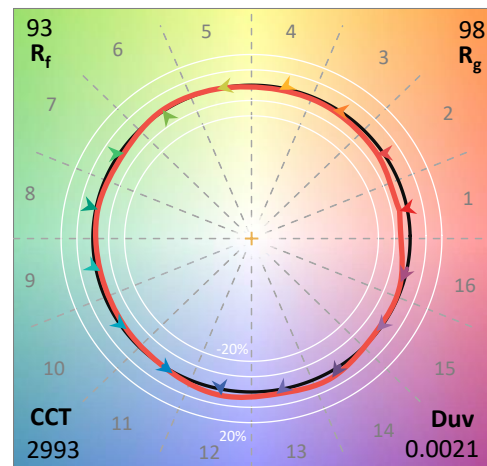
Test Information

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

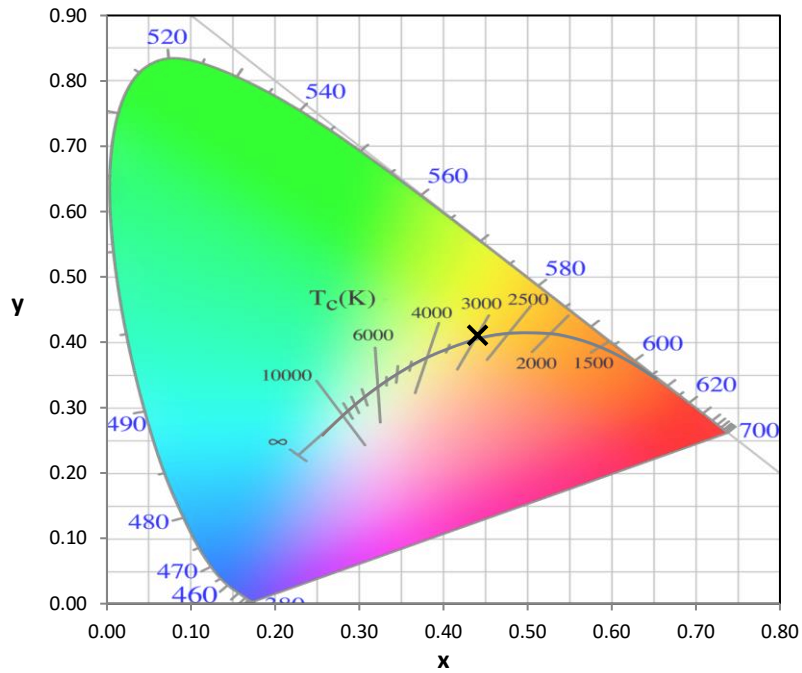
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-14

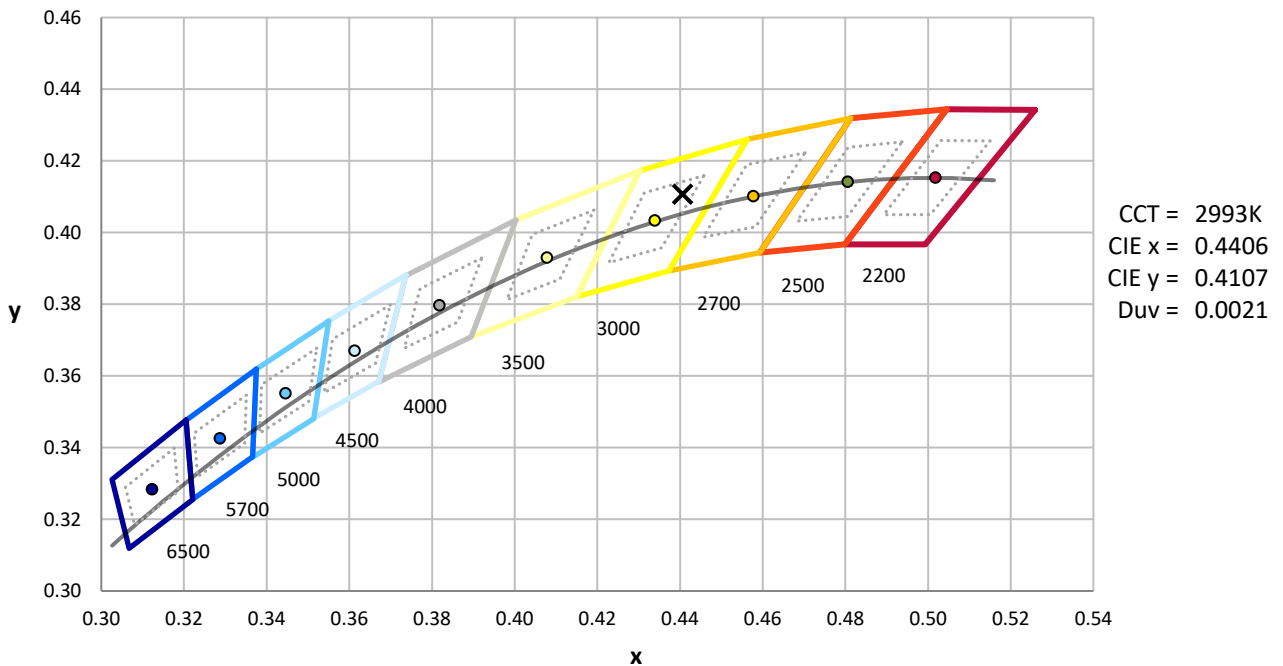
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



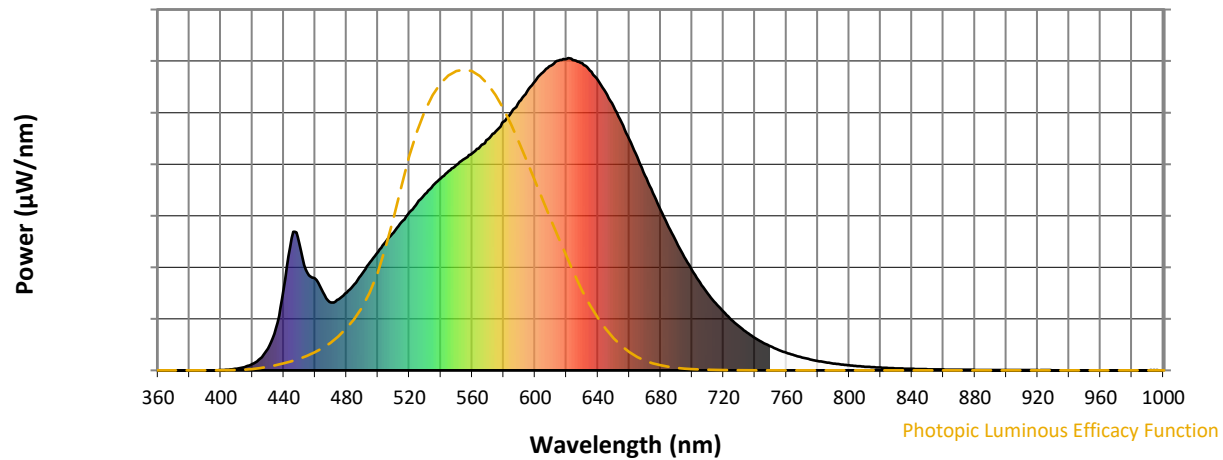
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-14

Photopic Flux vs. Wavelength

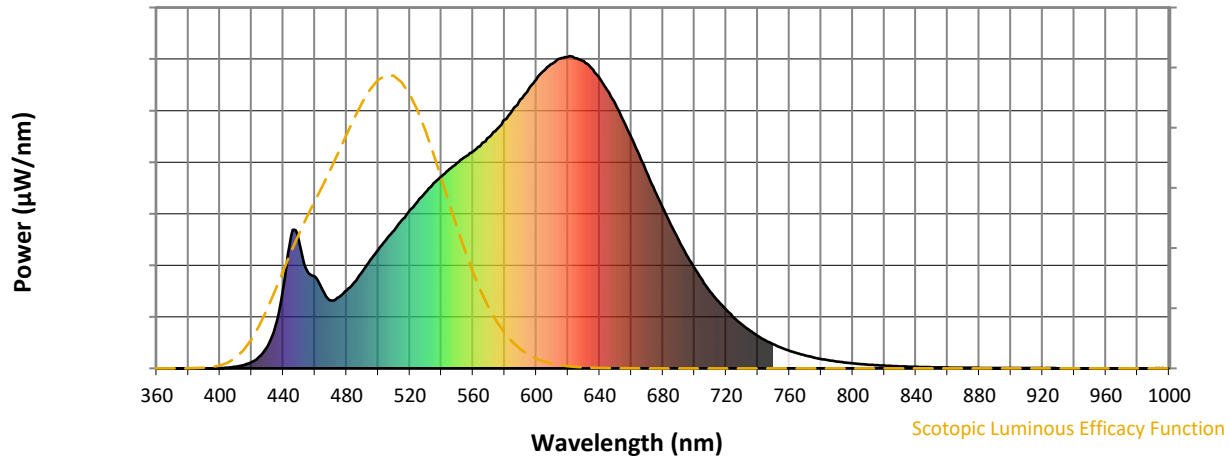


Photopic Lumens: NR

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

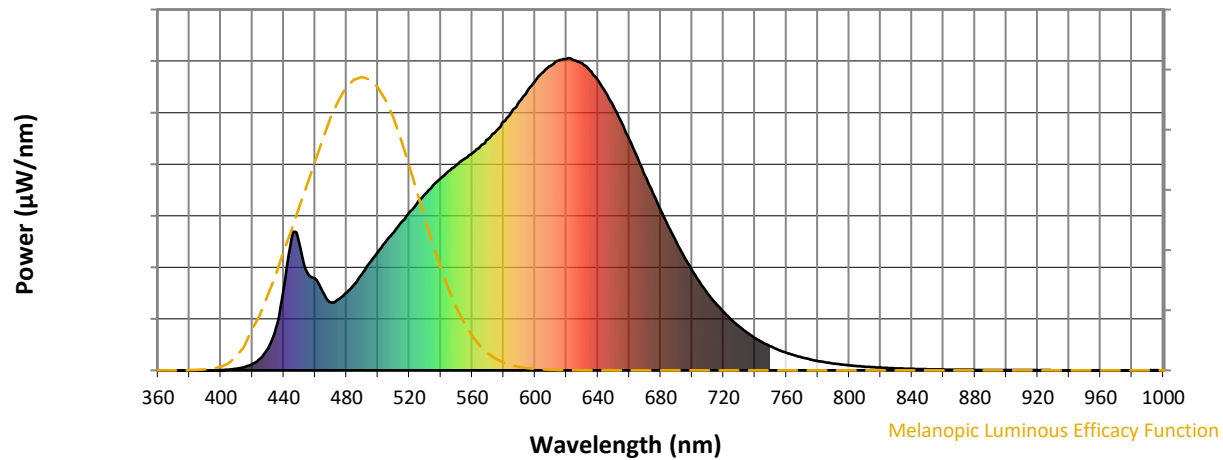
Scotopic Flux vs. Wavelength


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

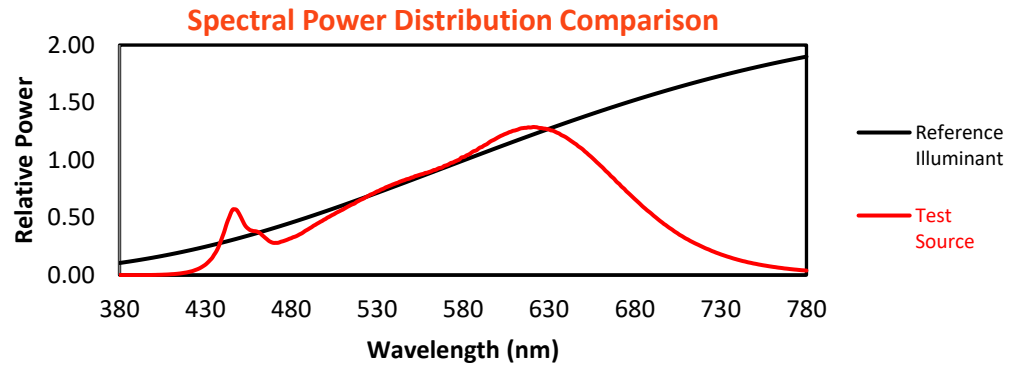
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	310	NR	620	998	NR	750	77	NR	880	2	NR
365	0	NR	495	347	NR	625	993	NR	755	66	NR	885	1	NR
370	0	NR	500	379	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

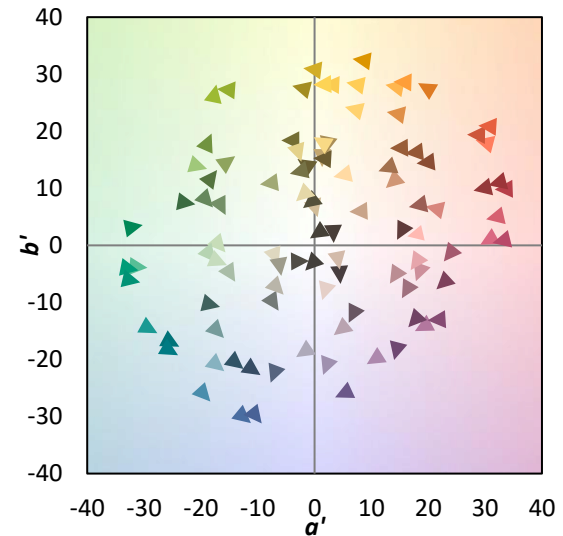
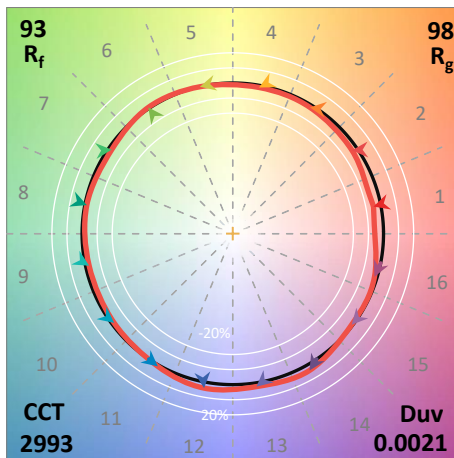
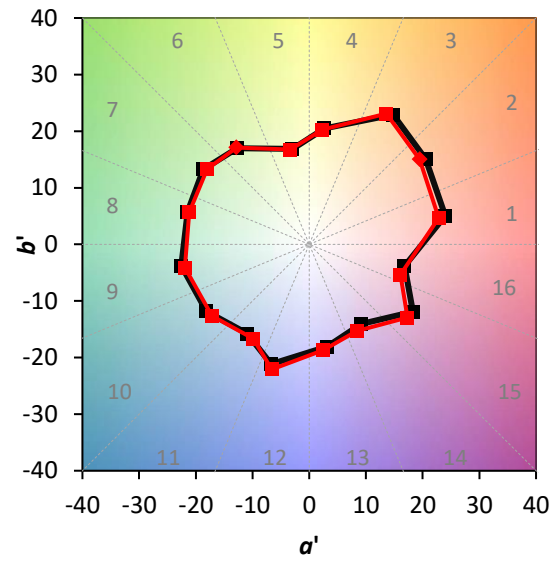
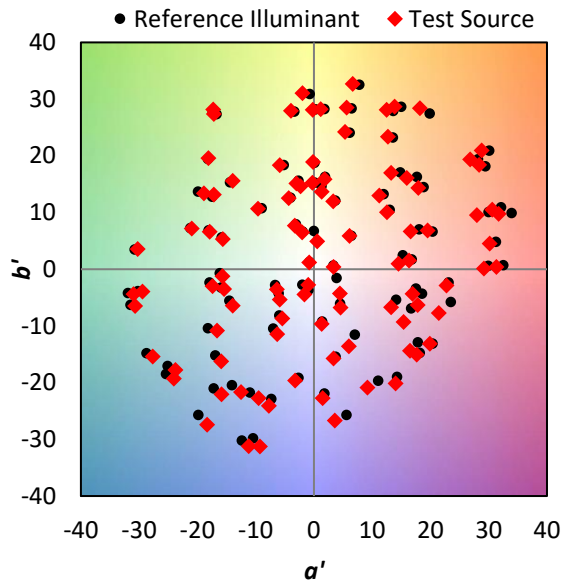
TM-30-18

Summary

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

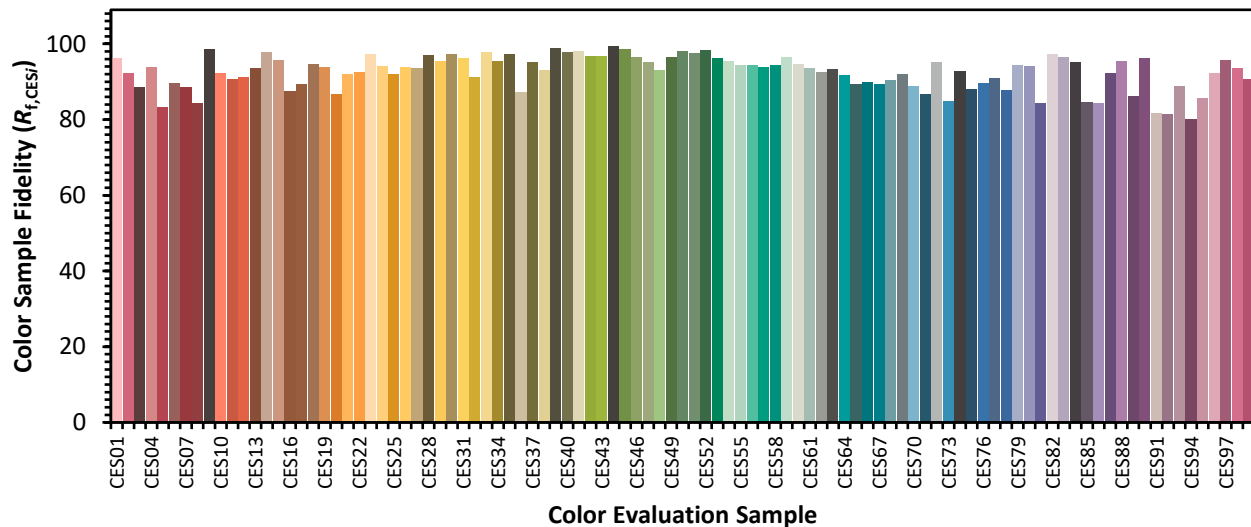


Color Vector Graphics

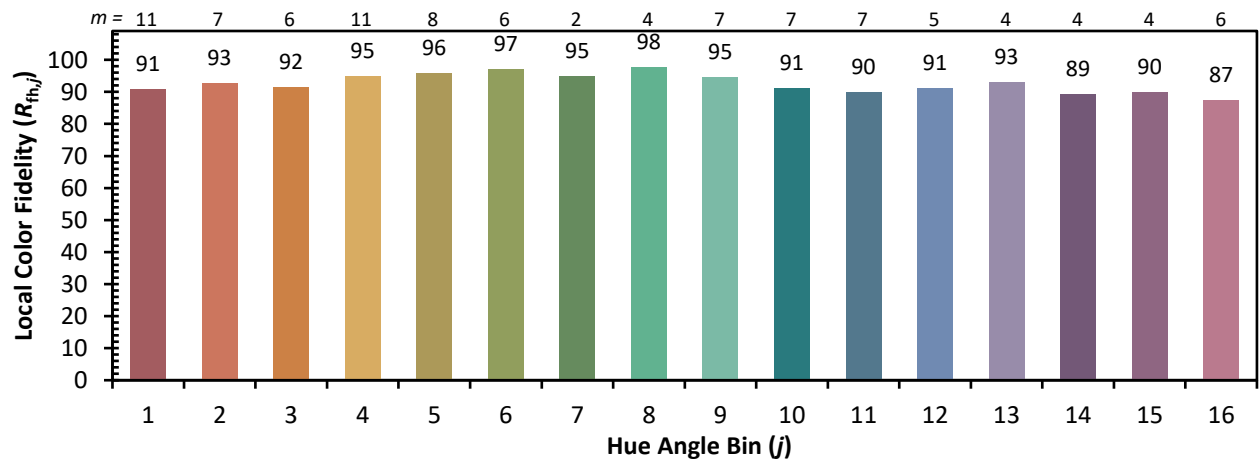
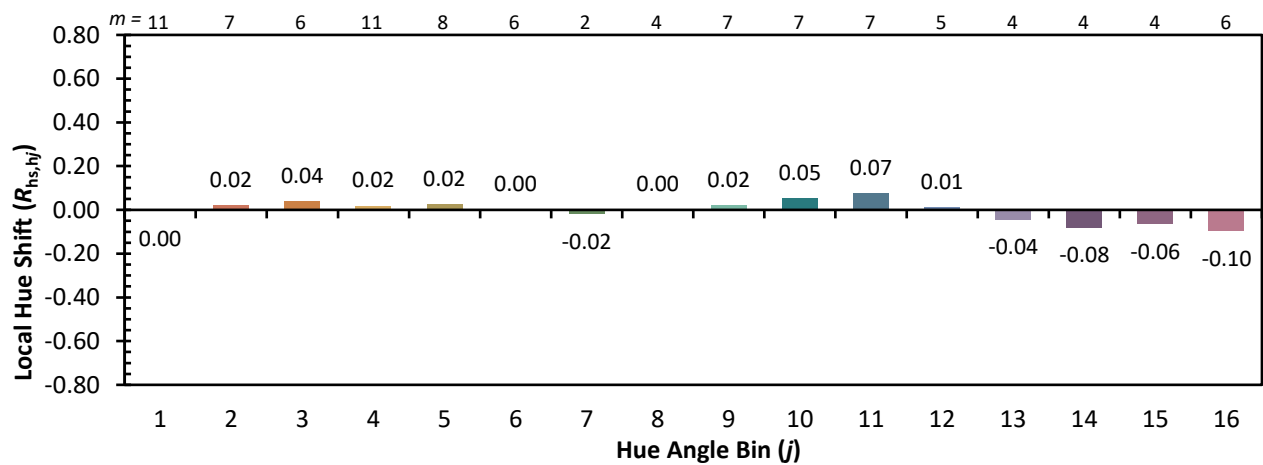
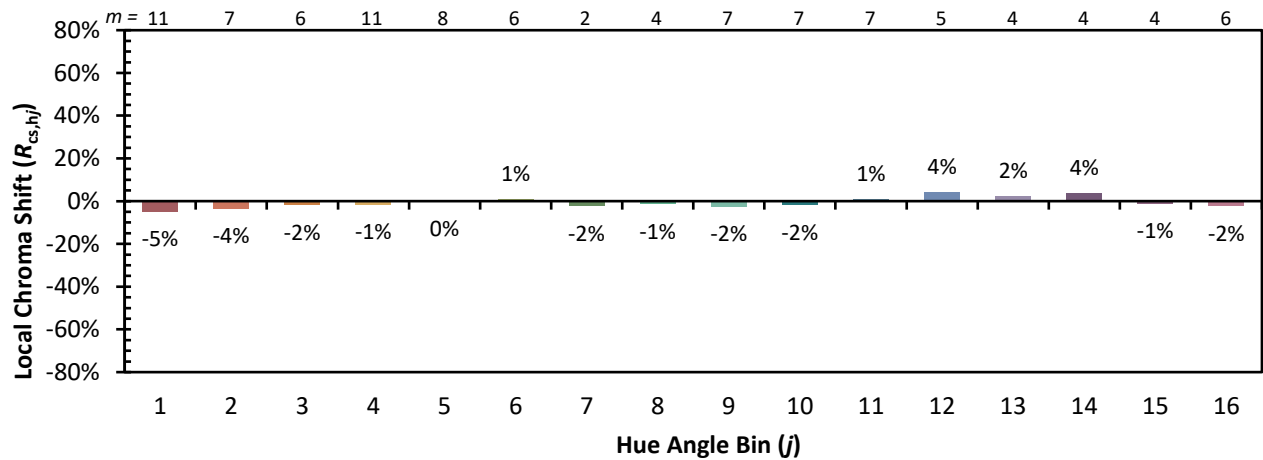


Individual Sample Fidelity Index ($R_{f,i}$)

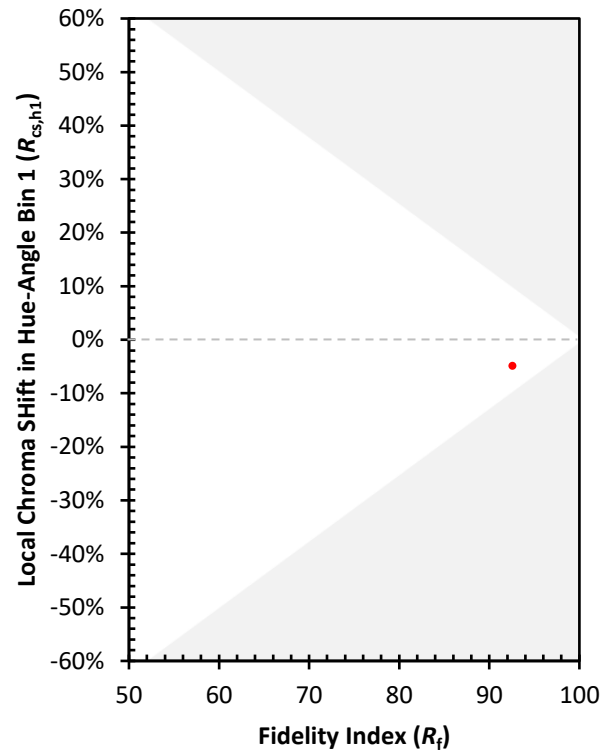
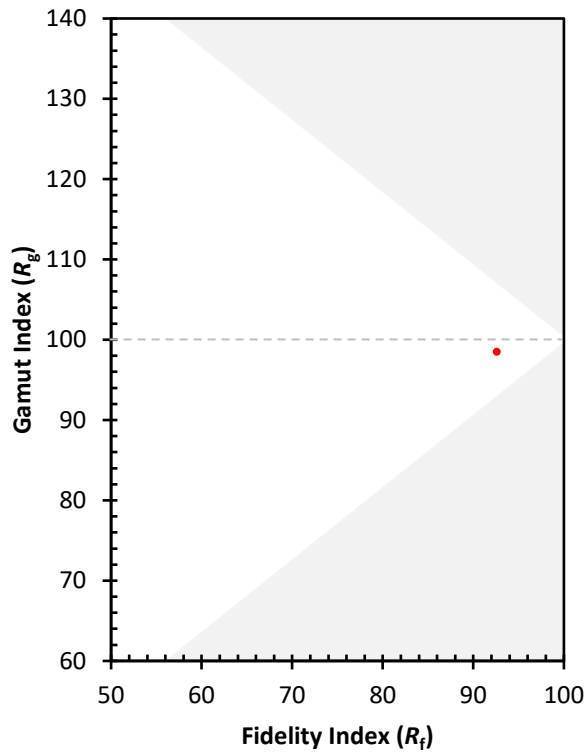
CES01 = 86	CES26 = 94	CES51 = 98	CES76 = 90
CES02 = 63	CES27 = 94	CES52 = 98	CES77 = 91
CES03 = 32	CES28 = 97	CES53 = 96	CES78 = 88
CES04 = 70	CES29 = 95	CES54 = 95	CES79 = 94
CES05 = 51	CES30 = 97	CES55 = 94	CES80 = 94
CES06 = 51	CES31 = 96	CES56 = 94	CES81 = 84
CES07 = 43	CES32 = 91	CES57 = 94	CES82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