

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: P1049950

Luminaire Tested: **GALN-SA6B-930-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049950
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-930-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 6xLight Square PACKAGE
90CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16819.9 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

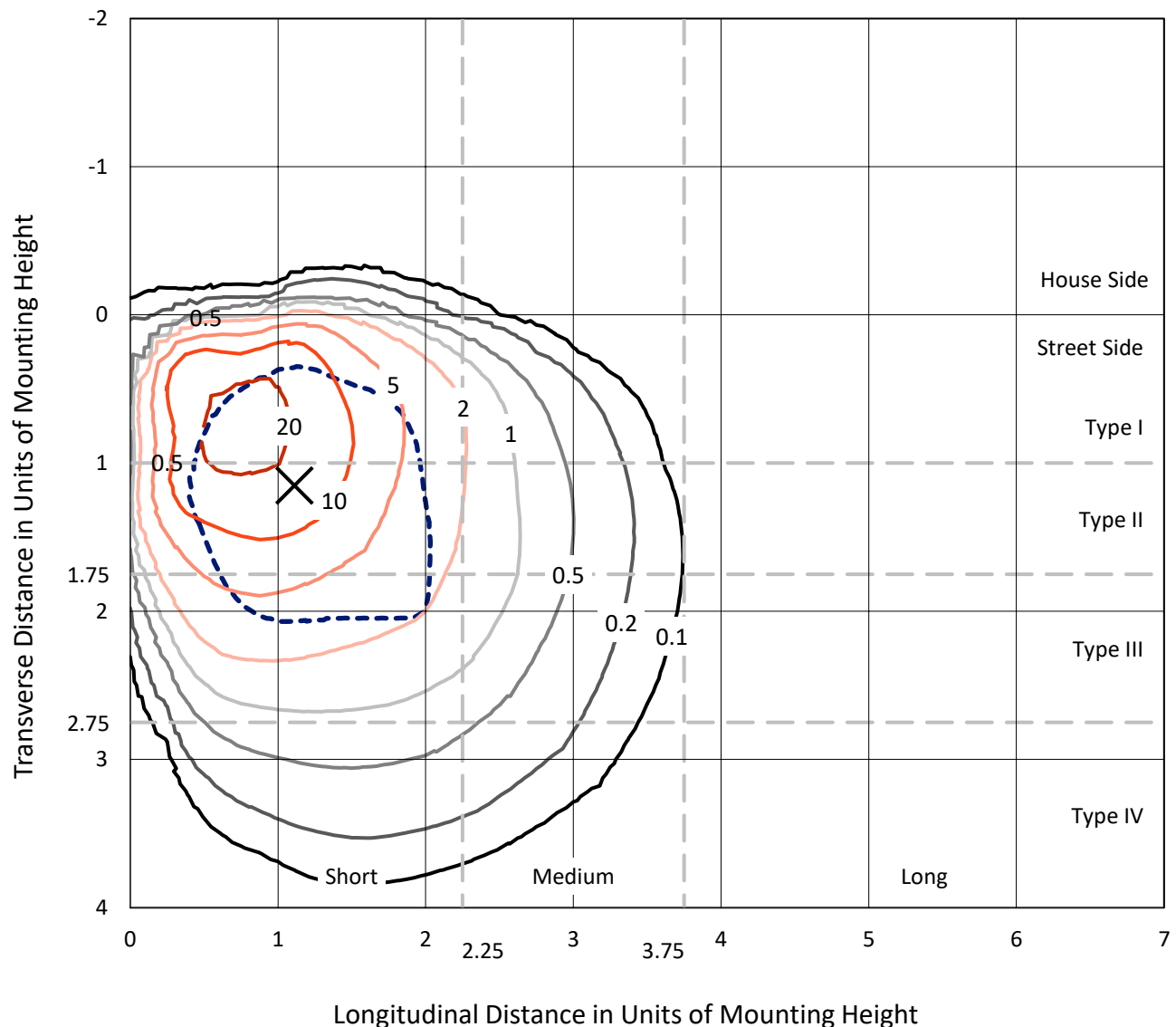
Input Watts (W): 213.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

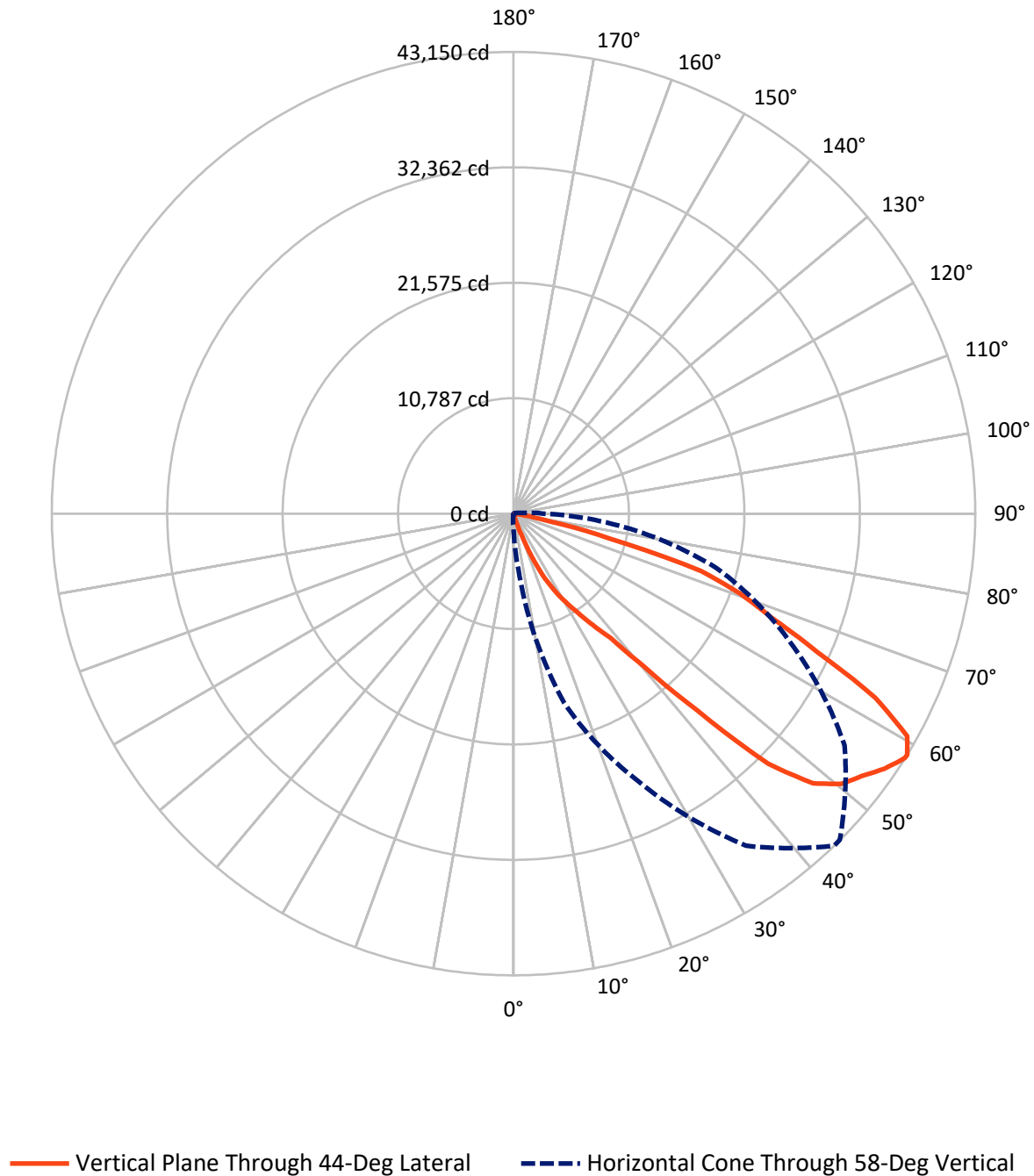
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 29.3 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	114.8	0.0	114.8
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	16705.0	0.0	16705.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	16819.9	0.0	16819.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.6	0.0
10°-20°	36.9	0.2
20°-30°	398.5	2.4
30°-40°	1178.4	7.0
40°-50°	3512.3	20.9
50°-60°	5573.1	33.1
60°-70°	4648.6	27.6
70°-80°	1433.7	8.5
80°-90°	31.8	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°	16819.9	100.0
0°-180°	16819.9	100.0



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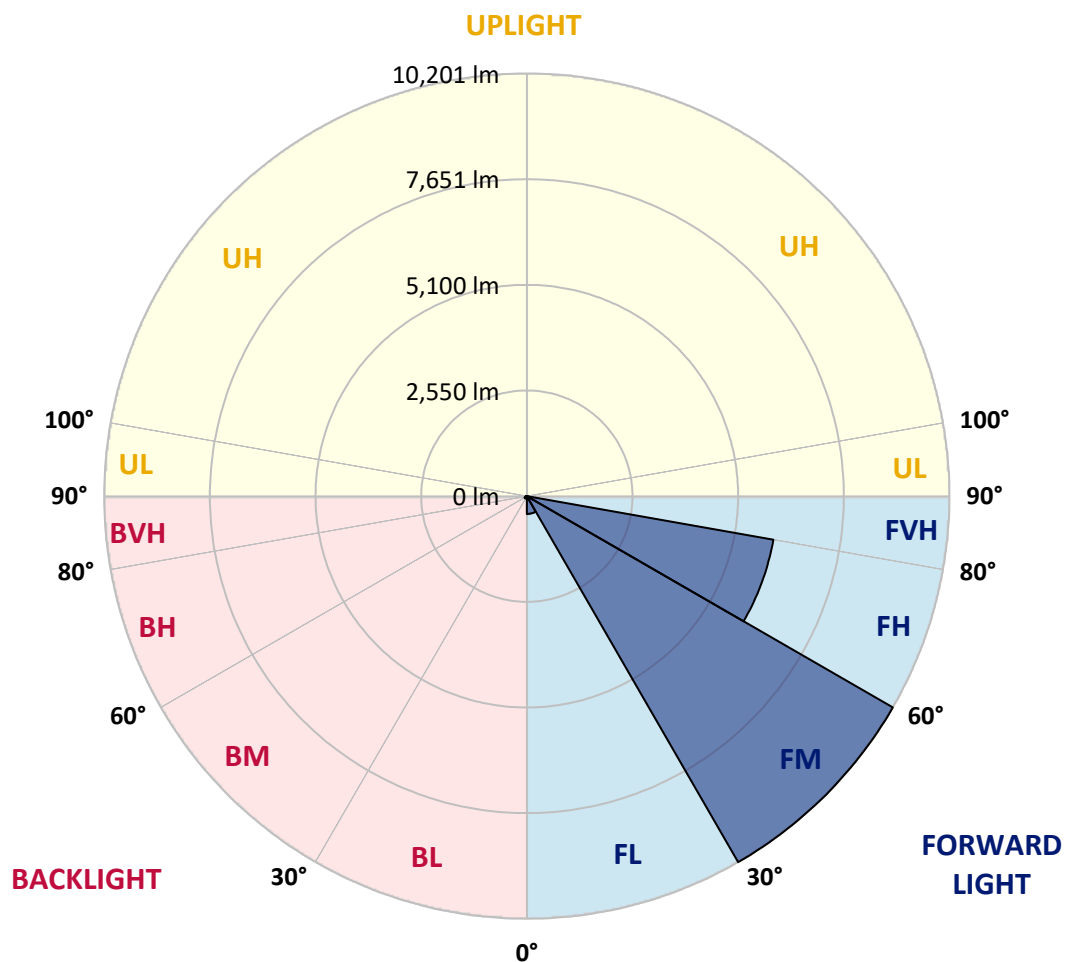
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	430.7	2.6			
FM	(30°-60°)	10200.9	60.6			
FH	(60°-80°)	6043.1	35.9			G3/7500
FVH	(80°-90°)	30.3	0.2			G1/100
BL	(0°-30°)	11.2	0.1	B0/110		
BM	(30°-60°)	62.9	0.4	B0/220		
BH	(60°-80°)	39.2	0.2	B0/110		G0/110
BVH	(80°-90°)	1.5	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°	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
2.5°	95.3	95.3	91.5	86.4	81.3	76.2	75.0	72.4	71.2	69.9
5°	99.1	99.1	97.8	94.0	88.9	85.1	85.1	81.3	78.8	76.2
7.5°	101.6	102.9	105.5	104.2	101.6	97.8	97.8	95.3	91.5	85.1
10°	105.5	109.3	114.4	116.9	118.2	118.2	116.9	115.6	109.3	100.4
12.5°	109.3	116.9	129.6	142.3	149.9	160.1	158.8	156.3	139.8	120.7
15°	116.9	128.3	155.0	191.9	249.0	284.6	298.6	285.9	231.2	162.6
17.5°	125.8	144.8	224.9	401.5	658.2	780.1	853.8	794.1	526.0	308.8
20°	134.7	176.6	418.0	1040.6	1707.7	2106.7	2217.2	2044.4	1312.5	588.3
22.5°	149.9	247.8	847.5	2151.1	3679.6	4278.1	4391.2	3838.5	2478.9	1161.3
25°	181.7	359.6	1461.2	3505.6	5491.5	6501.6	6454.6	5730.4	4021.4	1855.1
27.5°	227.4	523.5	2209.6	4980.7	7227.2	8117.8	8224.6	7328.8	5360.6	2728.0
30°	293.5	725.5	3012.6	6162.4	8618.5	9581.6	9599.4	8673.1	6558.8	3494.1
32.5°	357.0	916.1	3715.2	7304.7	9989.4	11045.3	11124.1	9984.4	7453.3	4292.1
35°	405.3	1040.6	4426.8	8308.4	11371.8	12826.7	12821.6	11468.4	8513.0	5004.9
37.5°	409.1	1165.1	5071.0	9335.1	13122.7	14751.6	14913.0	13421.3	9793.8	5886.7
40°	400.2	1304.9	5886.7	10936.0	16277.6	18776.9	18919.2	17038.7	12362.9	7396.1
42.5°	410.4	1547.6	7210.6	13892.7	21516.3	25105.7	25380.2	23403.1	17085.7	10476.1
45°	463.8	2003.7	9984.4	18839.1	28983.6	33359.5	33268.0	30420.6	22581.1	15164.6
47.5°	640.4	3120.6	14096.0	23653.4	33756.0	37652.9	37731.7	34251.5	25788.0	18769.3
50°	984.7	4774.9	17550.8	26198.4	35808.0	39717.6	39643.9	35622.5	27006.5	20544.3
52.5°	1280.8	5971.8	19283.9	27091.7	36071.0	40737.9	40732.8	35983.3	27195.9	20696.8
55°	1354.5	6062.0	19297.8	27140.0	36660.5	42073.3	42241.0	36871.5	27441.1	20031.0
57.5°	1325.2	5367.0	18492.3	27419.5	37710.1	43106.3	43115.2	37731.7	28063.7	19623.1
58°	1299.8	5257.7	18329.6	27578.3	37890.5	43149.5	43127.9	37771.0	28570.6	19607.9
60°	1157.5	4565.3	17695.6	27983.6	37622.4	42262.6	42060.6	36910.8	28495.7	19451.6
62.5°	909.7	3561.5	17071.7	27514.8	34748.3	37969.3	38053.1	32678.5	25977.4	18540.6
65°	724.2	2654.3	15770.7	24135.0	28613.8	31180.5	31493.0	26573.3	21682.7	15699.5
67.5°	576.9	1918.6	13229.5	19215.2	22642.0	26023.1	26250.5	22310.4	16798.6	12028.7
70°	468.9	1297.3	9131.8	14052.8	18675.2	22476.9	22490.8	18534.2	12538.3	7881.5
72.5°	415.5	898.3	5300.9	10248.6	15143.0	18315.7	17945.9	15040.1	9636.2	4668.2
75°	359.6	595.9	2599.6	6265.3	9181.3	9243.6	9384.6	6976.8	4816.8	2219.7
77.5°	296.0	423.1	1024.1	1711.5	2753.4	3524.6	3655.5	2769.9	1602.2	546.4
80°	203.3	200.8	275.7	524.8	787.8	987.3	921.2	712.8	419.3	209.6
82.5°	87.7	95.3	124.5	149.9	122.0	118.2	113.1	72.4	55.9	43.2
85°	28.0	25.4	26.7	26.7	21.6	16.5	16.5	7.6	0.0	0.0
87.5°	14.0	11.4	11.4	10.2	6.4	2.5	1.3	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°
73.7	0°	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
68.6	2.5°	67.3	67.3	64.8	62.3	61.0	58.4	57.2	55.9	54.6	53.4
73.7	5°	71.2	69.9	66.1	62.3	58.4	54.6	52.1	49.6	47.0	45.7
81.3	7.5°	77.5	75.0	67.3	61.0	55.9	50.8	48.3	44.5	41.9	38.1
90.2	10°	85.1	80.0	69.9	62.3	54.6	48.3	44.5	40.7	36.8	31.8
102.9	12.5°	95.3	86.4	73.7	61.0	52.1	44.5	40.7	35.6	31.8	28.0
119.4	15°	104.2	92.8	75.0	61.0	49.6	40.7	35.6	30.5	26.7	21.6
149.9	17.5°	116.9	97.8	73.7	57.2	45.7	35.6	30.5	26.7	20.3	12.7
222.4	20°	138.5	101.6	71.2	53.4	39.4	29.2	22.9	17.8	8.9	2.5
334.2	22.5°	172.8	111.8	68.6	48.3	34.3	22.9	15.2	6.4	0.0	0.0
508.2	25°	238.9	129.6	68.6	45.7	30.5	16.5	5.1	0.0	0.0	0.0
721.7	27.5°	317.6	153.7	68.6	39.4	24.1	8.9	0.0	0.0	0.0	0.0
983.4	30°	397.7	180.4	68.6	34.3	19.1	1.3	0.0	0.0	0.0	0.0
1210.9	32.5°	473.9	203.3	69.9	29.2	12.7	0.0	0.0	0.0	0.0	0.0
1526.0	35°	551.4	207.1	68.6	25.4	7.6	0.0	0.0	0.0	0.0	0.0
1912.2	37.5°	650.5	199.5	64.8	22.9	3.8	0.0	0.0	0.0	0.0	0.0
2515.8	40°	800.5	203.3	61.0	21.6	1.3	0.0	0.0	0.0	0.0	0.0
3592.0	42.5°	1077.5	219.8	55.9	21.6	0.0	0.0	0.0	0.0	0.0	0.0
5721.5	45°	1862.7	294.8	50.8	22.9	0.0	0.0	0.0	0.0	0.0	0.0
8589.2	47.5°	3081.2	529.8	49.6	22.9	0.0	0.0	0.0	0.0	0.0	0.0
10346.5	50°	3932.5	667.1	52.1	24.1	0.0	0.0	0.0	0.0	0.0	0.0
10566.3	52.5°	3926.1	743.3	54.6	25.4	5.1	0.0	0.0	0.0	0.0	0.0
9739.1	55°	3490.3	757.3	58.4	28.0	16.5	0.0	0.0	0.0	0.0	0.0
8369.4	57.5°	2917.3	691.2	67.3	34.3	30.5	0.0	0.0	0.0	0.0	0.0
8154.7	58°	2815.6	660.7	69.9	35.6	33.0	0.0	0.0	0.0	0.0	0.0
7073.4	60°	2307.4	538.7	88.9	44.5	44.5	0.0	0.0	0.0	0.0	0.0
5799.0	62.5°	1593.3	470.1	101.6	57.2	45.7	0.0	0.0	0.0	0.0	0.0
4275.6	65°	1127.0	424.4	110.5	61.0	36.8	0.0	0.0	0.0	0.0	0.0
3038.0	67.5°	842.4	391.3	122.0	62.3	19.1	0.0	0.0	0.0	0.0	0.0
1905.9	70°	645.5	367.2	149.9	66.1	5.1	0.0	0.0	0.0	0.0	0.0
1135.9	72.5°	526.0	339.2	181.7	68.6	0.0	0.0	0.0	0.0	0.0	0.0
681.0	75°	435.8	306.2	175.3	75.0	0.0	0.0	0.0	0.0	0.0	0.0
363.4	77.5°	289.7	237.6	160.1	75.0	0.0	0.0	0.0	0.0	0.0	0.0
129.6	80°	101.6	94.0	124.5	66.1	0.0	0.0	0.0	0.0	0.0	0.0
26.7	82.5°	15.2	12.7	17.8	22.9	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°
73.7	0°	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
52.1	2.5°	52.1	52.1	50.8	52.1	52.1	54.6	61.0	69.9	80.0	83.9
44.5	5°	43.2	41.9	40.7	40.7	40.7	44.5	49.6	59.7	71.2	76.2
36.8	7.5°	35.6	34.3	33.0	31.8	31.8	34.3	40.7	52.1	63.5	68.6
30.5	10°	29.2	26.7	25.4	24.1	24.1	26.7	33.0	44.5	57.2	62.3
25.4	12.5°	24.1	20.3	17.8	16.5	15.2	19.1	25.4	35.6	49.6	55.9
19.1	15°	16.5	12.7	8.9	7.6	6.4	10.2	16.5	28.0	41.9	49.6
10.2	17.5°	8.9	3.8	1.3	0.0	0.0	2.5	7.6	20.3	34.3	40.7
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2	25.4	31.8
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	15.2	21.6
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	11.4
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
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	3.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	10.2
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°
73.7	0°	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
87.7	2.5°	90.2	88.9	86.4	83.9	83.9	83.9	87.7	91.5	95.3	95.3
78.8	5°	83.9	83.9	82.6	80.0	80.0	81.3	86.4	92.8	97.8	99.1
72.4	7.5°	77.5	80.0	77.5	76.2	77.5	78.8	83.9	91.5	99.1	101.6
67.3	10°	73.7	75.0	75.0	73.7	73.7	76.2	81.3	91.5	101.6	105.5
61.0	12.5°	68.6	71.2	69.9	69.9	69.9	72.4	78.8	90.2	104.2	109.3
54.6	15°	63.5	67.3	67.3	66.1	66.1	67.3	76.2	88.9	108.0	116.9
47.0	17.5°	58.4	62.3	63.5	61.0	61.0	63.5	72.4	88.9	110.5	125.8
38.1	20°	48.3	54.6	58.4	54.6	54.6	57.2	66.1	83.9	111.8	134.7
28.0	22.5°	38.1	44.5	49.6	48.3	48.3	49.6	61.0	80.0	113.1	149.9
16.5	25°	28.0	34.3	38.1	40.7	40.7	44.5	55.9	77.5	118.2	181.7
7.6	27.5°	16.5	24.1	29.2	31.8	33.0	38.1	52.1	75.0	127.1	227.4
0.0	30°	7.6	14.0	20.3	25.4	25.4	34.3	48.3	72.4	138.5	293.5
0.0	32.5°	0.0	6.4	10.2	17.8	19.1	28.0	44.5	69.9	155.0	357.0
0.0	35°	0.0	0.0	5.1	14.0	14.0	22.9	40.7	67.3	180.4	405.3
0.0	37.5°	0.0	0.0	0.0	10.2	11.4	20.3	39.4	66.1	185.5	409.1
0.0	40°	0.0	0.0	0.0	7.6	8.9	19.1	39.4	67.3	167.7	400.2
0.0	42.5°	0.0	0.0	0.0	5.1	6.4	19.1	39.4	69.9	151.2	410.4
0.0	45°	0.0	0.0	0.0	3.8	5.1	20.3	38.1	68.6	142.3	463.8
0.0	47.5°	0.0	0.0	0.0	5.1	7.6	20.3	36.8	67.3	143.6	640.4
0.0	50°	0.0	0.0	0.0	6.4	8.9	20.3	38.1	64.8	157.6	984.7
0.0	52.5°	0.0	0.0	0.0	5.1	7.6	22.9	41.9	63.5	171.5	1280.8
0.0	55°	0.0	0.0	0.0	1.3	3.8	29.2	45.7	63.5	193.1	1354.5
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	33.0	52.1	67.3	228.7	1325.2
0.0	58°	0.0	0.0	0.0	0.0	0.0	33.0	53.4	67.3	231.2	1299.8
0.0	60°	0.0	0.0	0.0	0.0	0.0	33.0	58.4	75.0	249.0	1157.5
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	28.0	69.9	94.0	259.2	909.7
0.0	65°	0.0	0.0	0.0	0.0	0.0	22.9	82.6	102.9	266.8	724.2
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	21.6	85.1	104.2	270.6	576.9
0.0	70°	0.0	0.0	0.0	0.0	0.0	22.9	83.9	111.8	283.3	468.9
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	25.4	76.2	123.2	283.3	415.5
0.0	75°	0.0	0.0	0.0	0.0	0.0	26.7	71.2	138.5	257.9	359.6
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	25.4	69.9	161.4	230.0	296.0
0.0	80°	2.5	3.8	3.8	2.5	2.5	21.6	68.6	163.9	195.7	203.3
1.3	82.5°	7.6	10.2	8.9	6.4	6.4	19.1	61.0	137.2	101.6	87.7
7.6	85°	14.0	16.5	16.5	14.0	14.0	17.8	38.1	49.6	34.3	28.0
14.0	87.5°	19.1	21.6	21.6	19.1	19.1	17.8	16.5	15.2	14.0	14.0
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

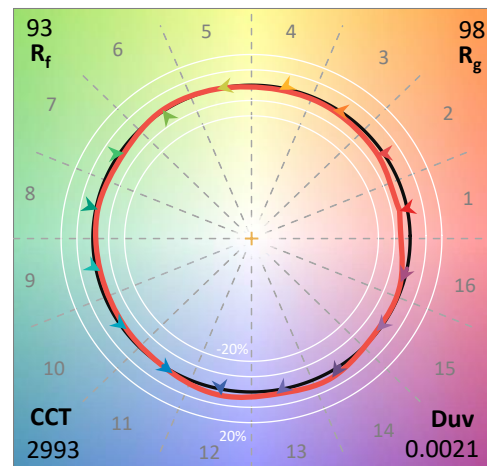
Test Information

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

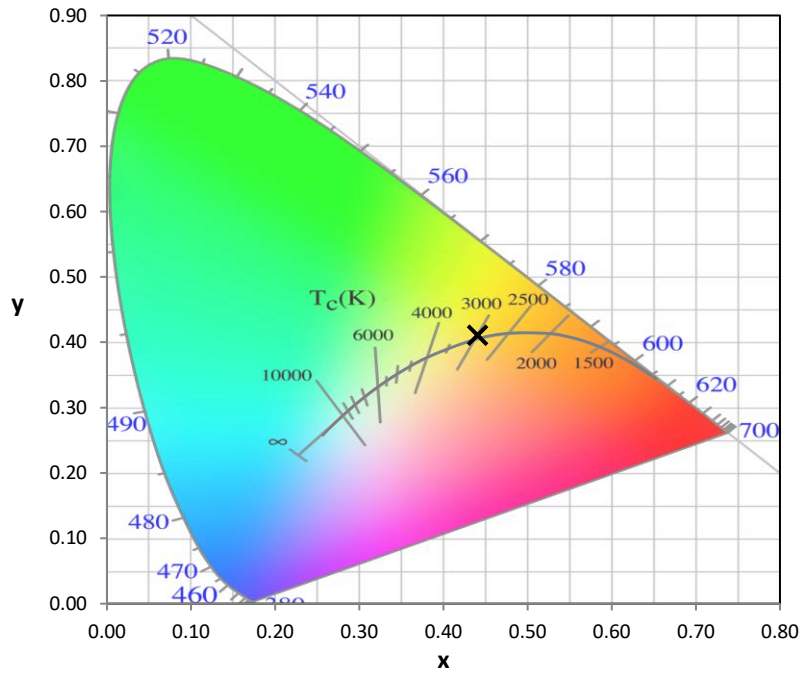
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-14

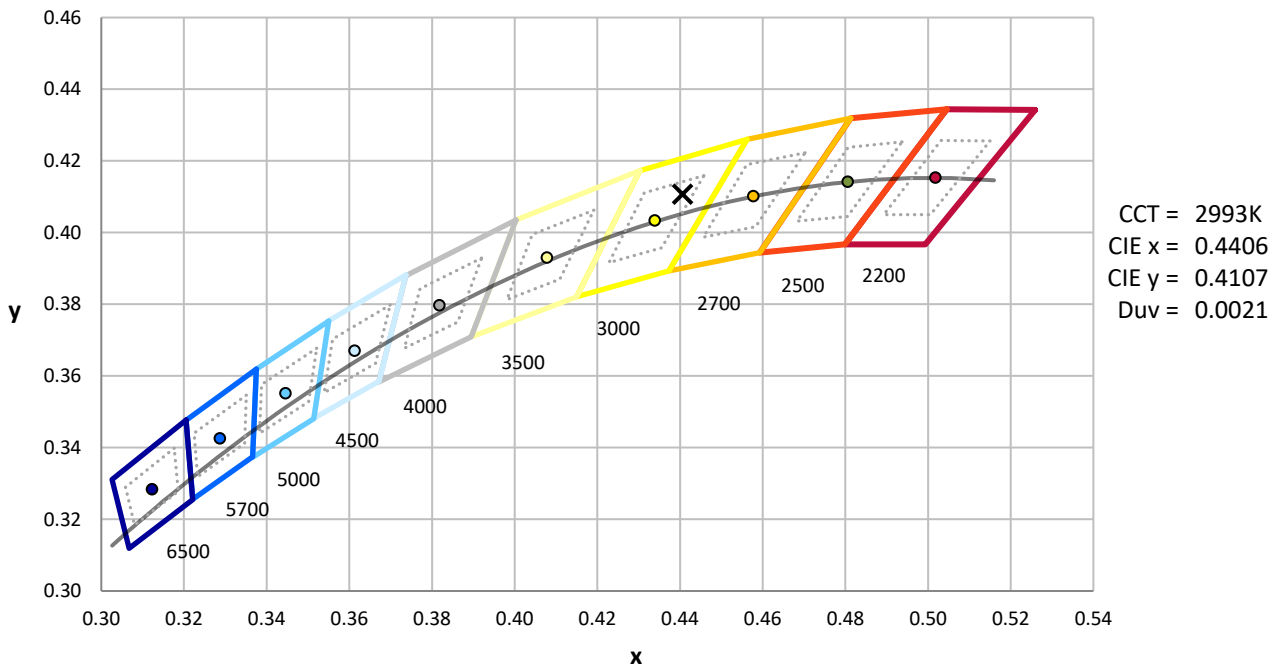
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



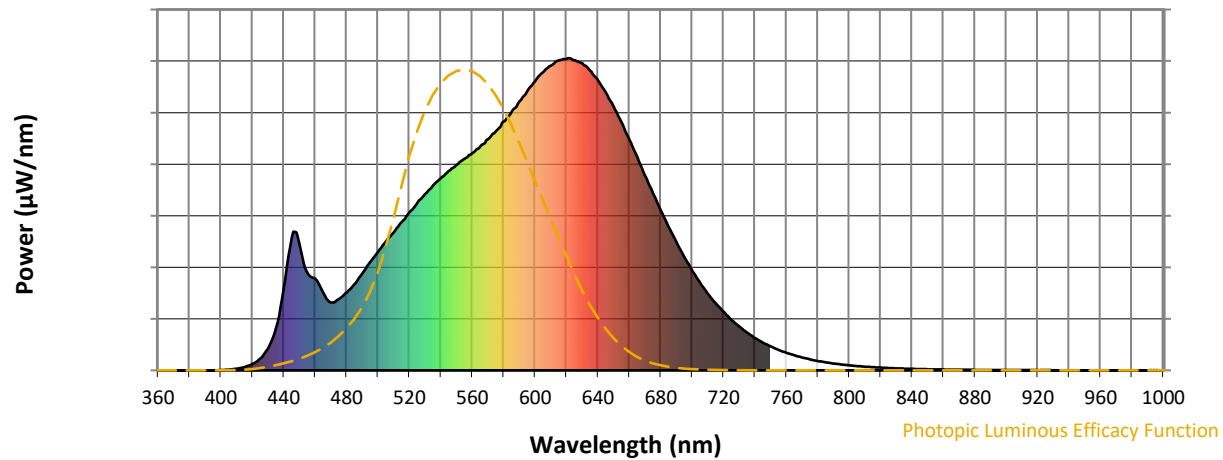
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-14

Photopic Flux vs. Wavelength

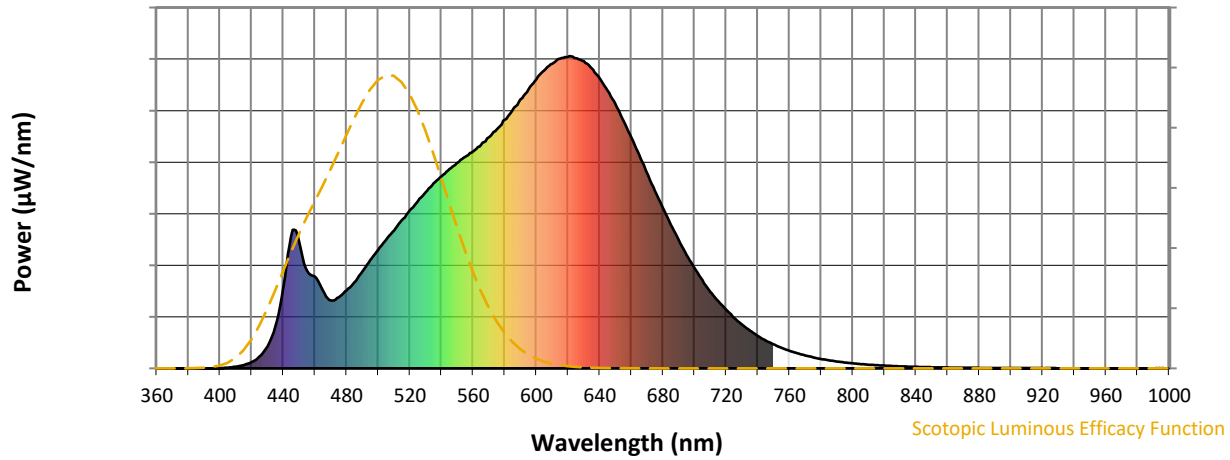


Photopic Lumens: NR

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



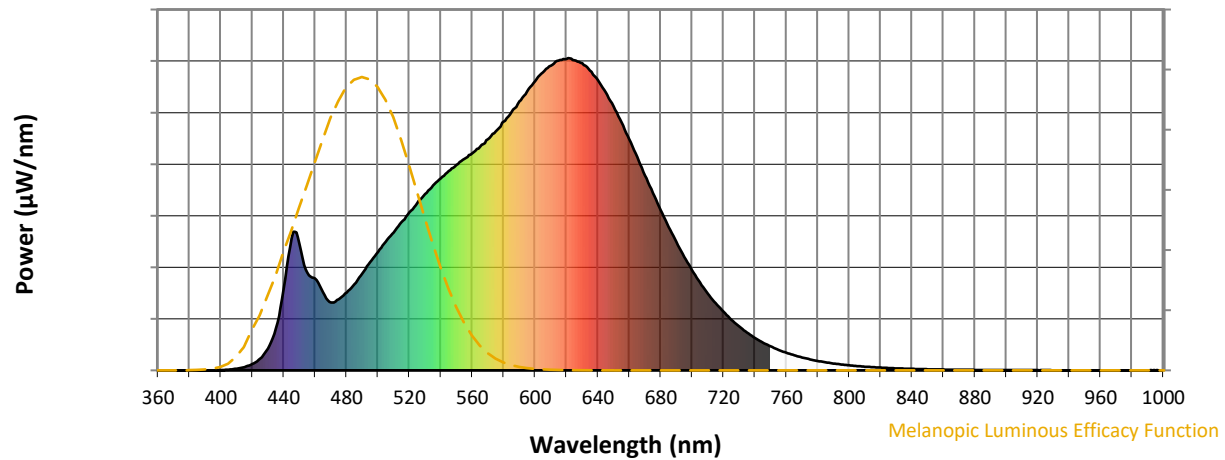
Scotopic Lumens: NR

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

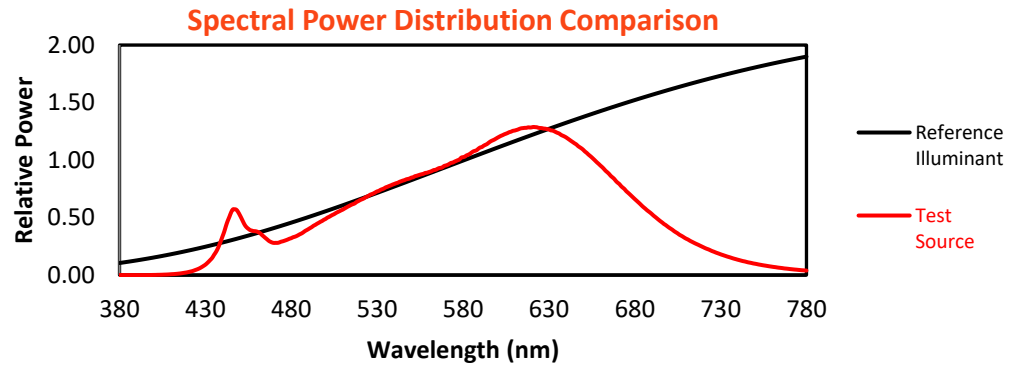
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	310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

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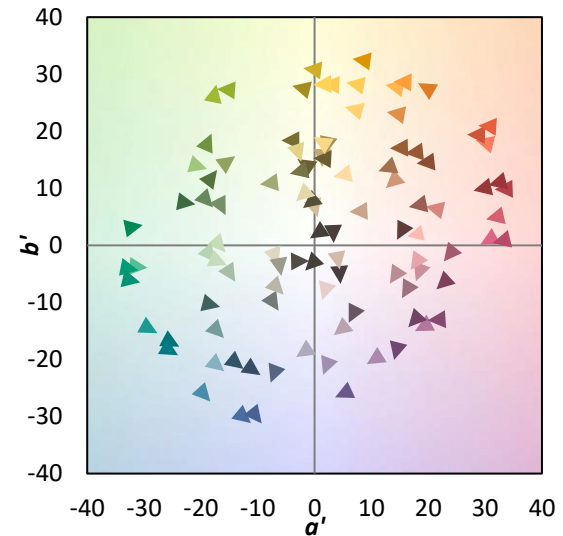
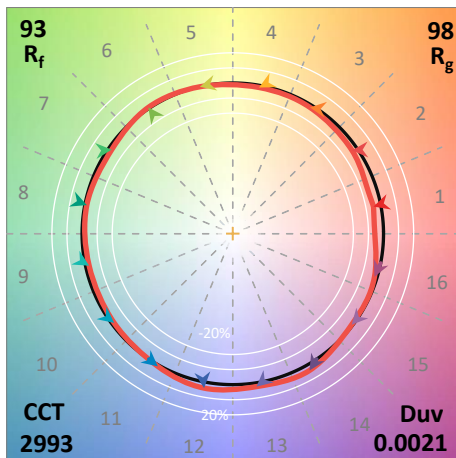
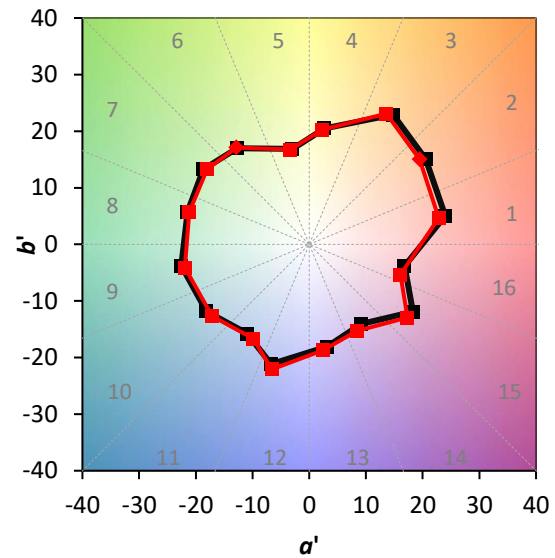
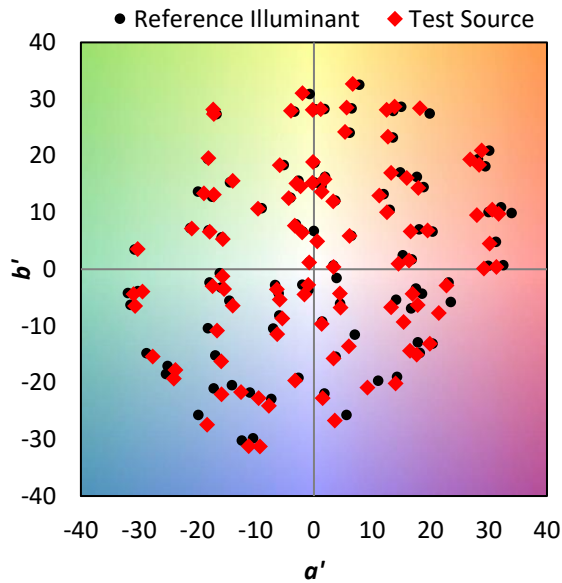
TM-30-18

Summary

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

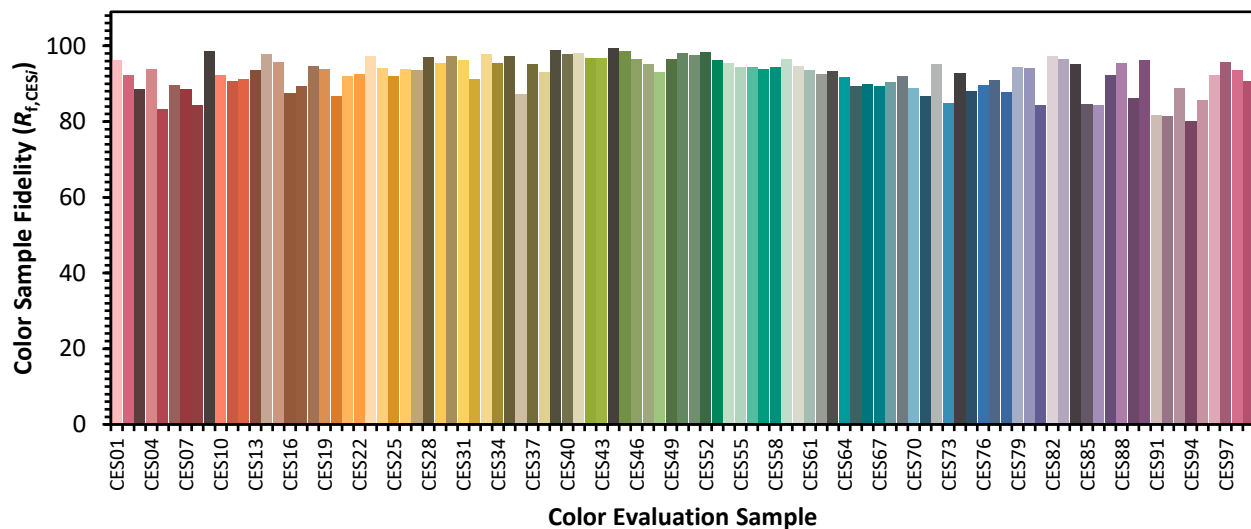


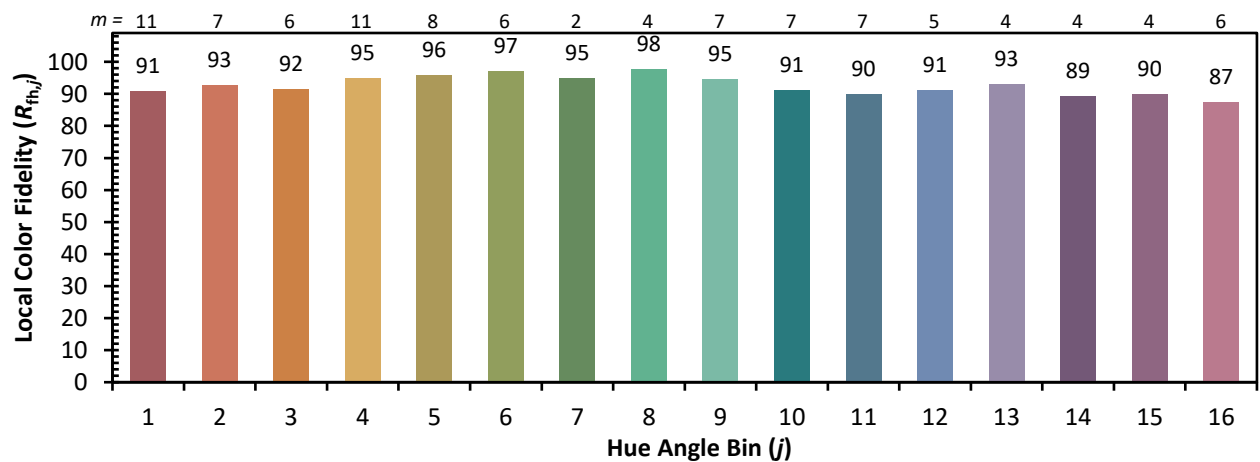
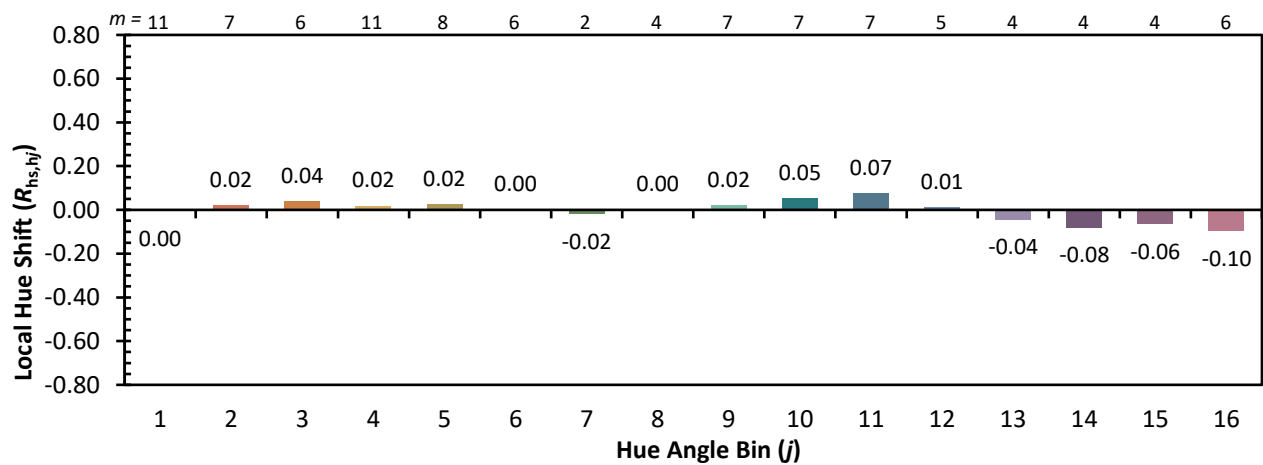
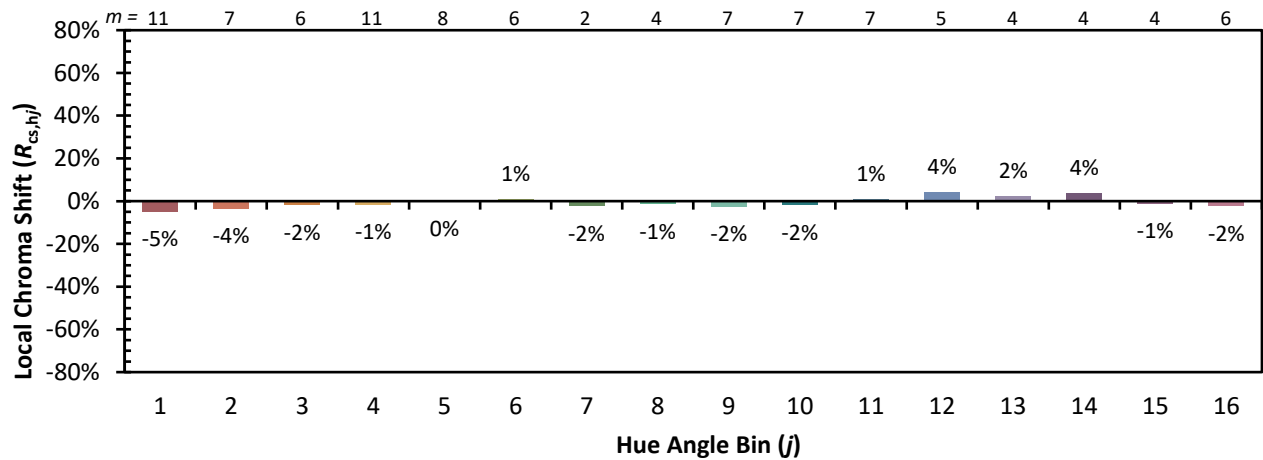
Color Vector Graphics



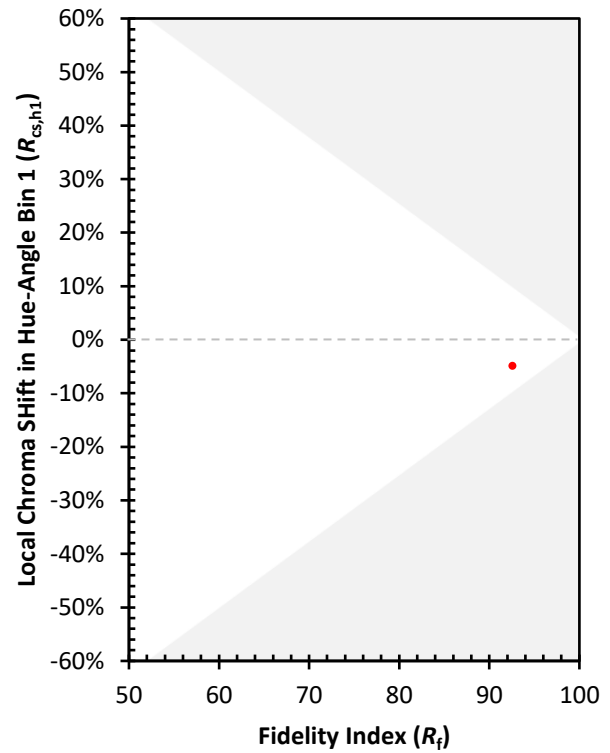
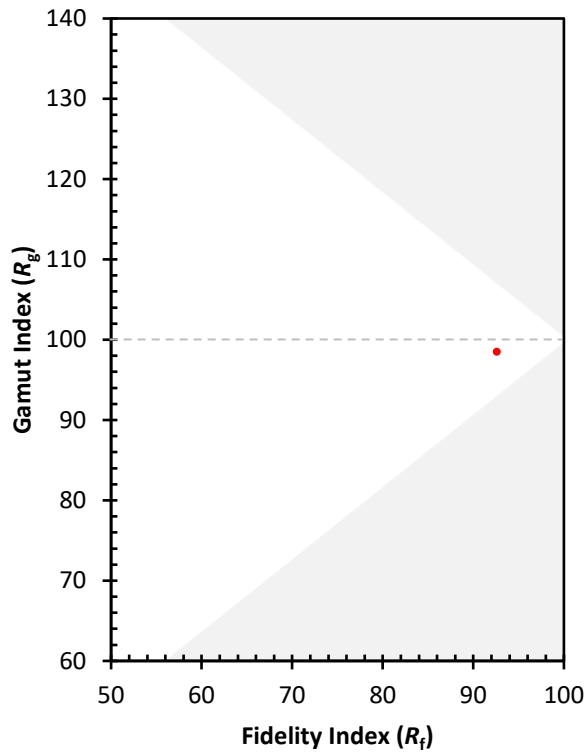
Individual Sample Fidelity Index ($R_{f,i}$)

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)