

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: P1049913

Luminaire Tested: **GALN-SA6A-927-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049913
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-927-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 6xLight Square PACKAGE
90CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12151.3 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

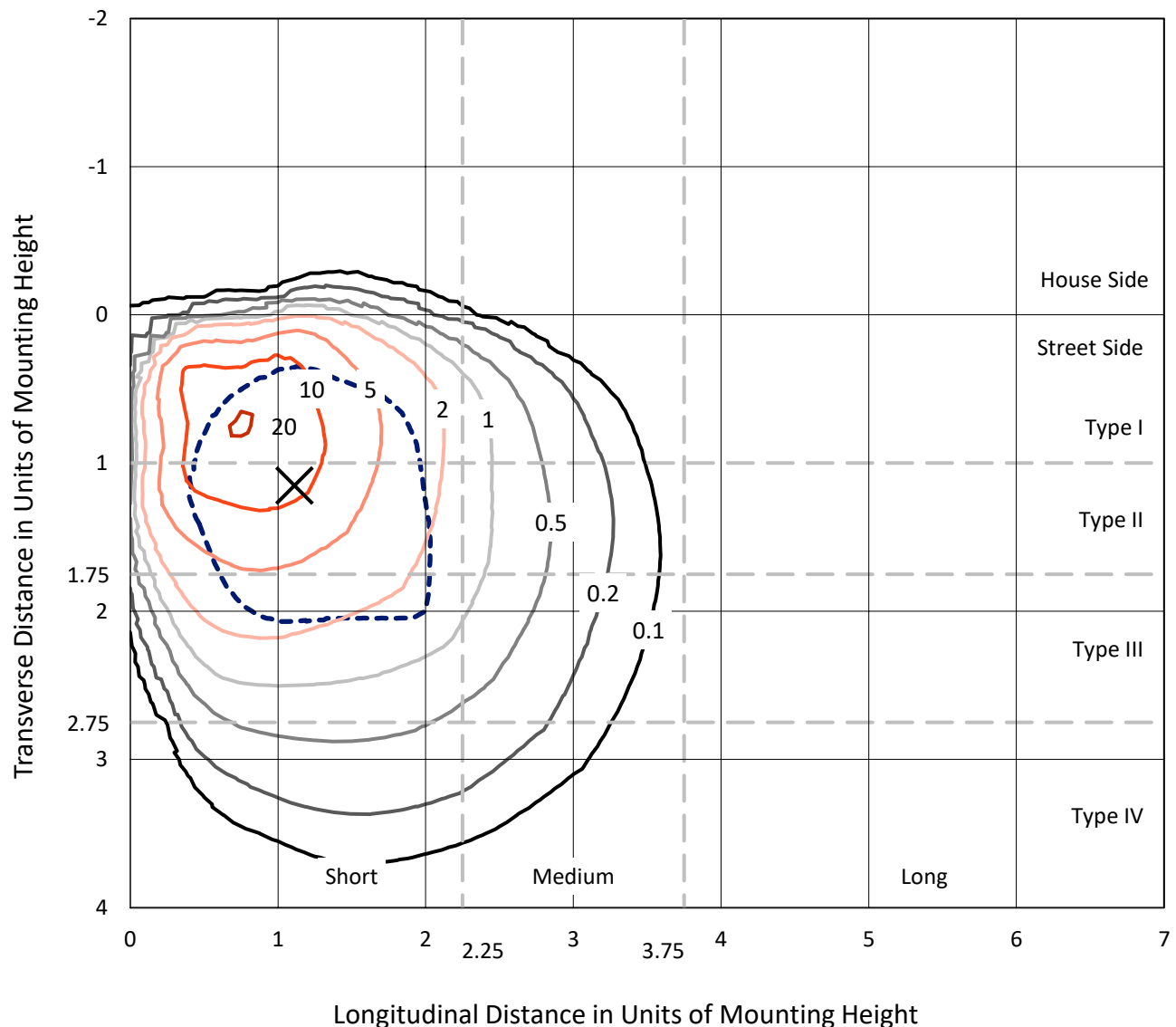
Input Watts (W): 162.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

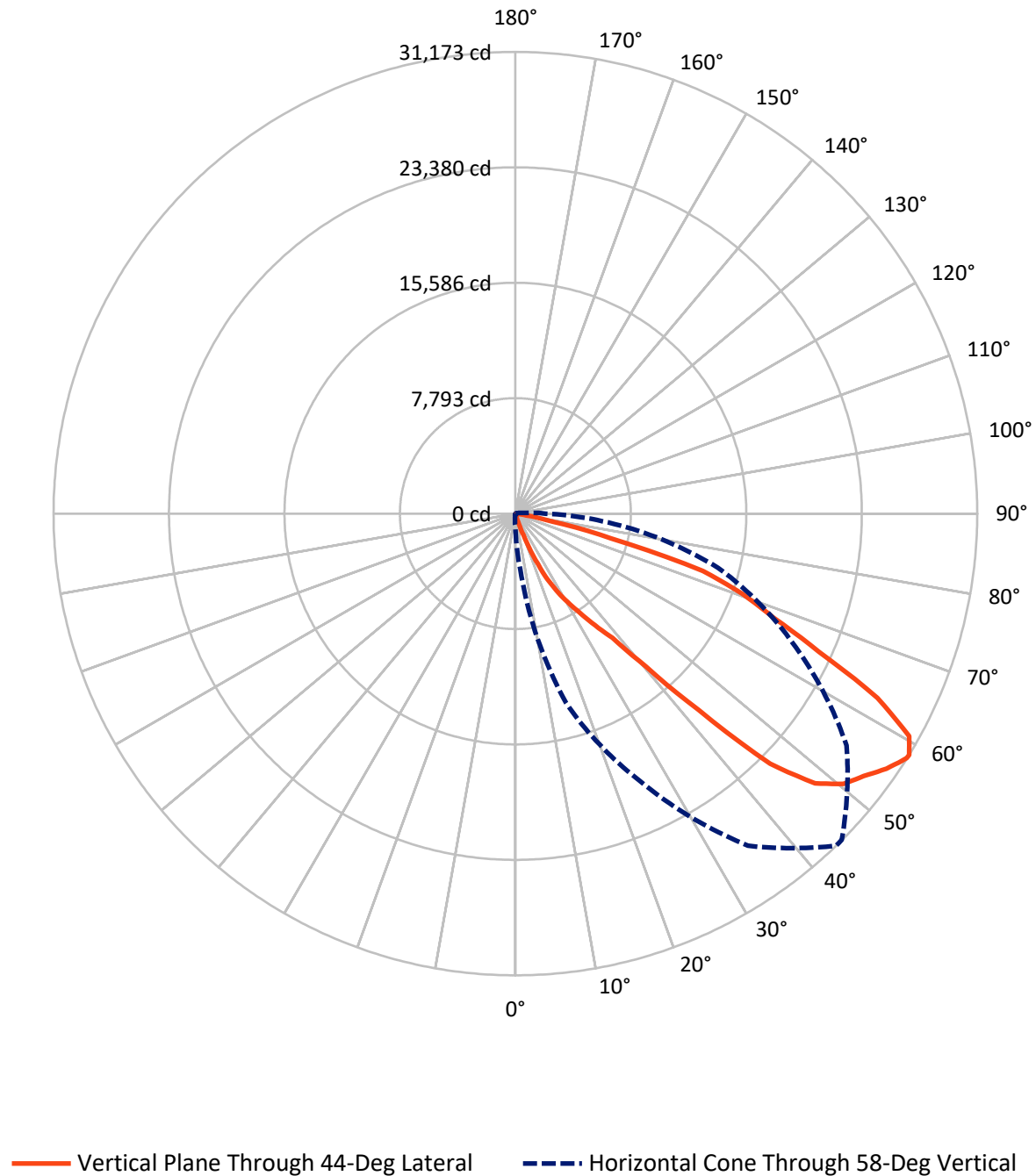
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 21.2 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	83.0	0.0	83.0
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	12068.3	0.0	12068.3
	% Fixture	99.3	0.0	99.3
Total	Lumens	12151.3	0.0	12151.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.7	0.0
10°-20°	26.6	0.2
20°-30°	287.9	2.4
30°-40°	851.3	7.0
40°-50°	2537.4	20.9
50°-60°	4026.2	33.1
60°-70°	3358.3	27.6
70°-80°	1035.8	8.5
80°-90°	23.0	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°	12151.3	100.0
0°-180°	12151.3	100.0



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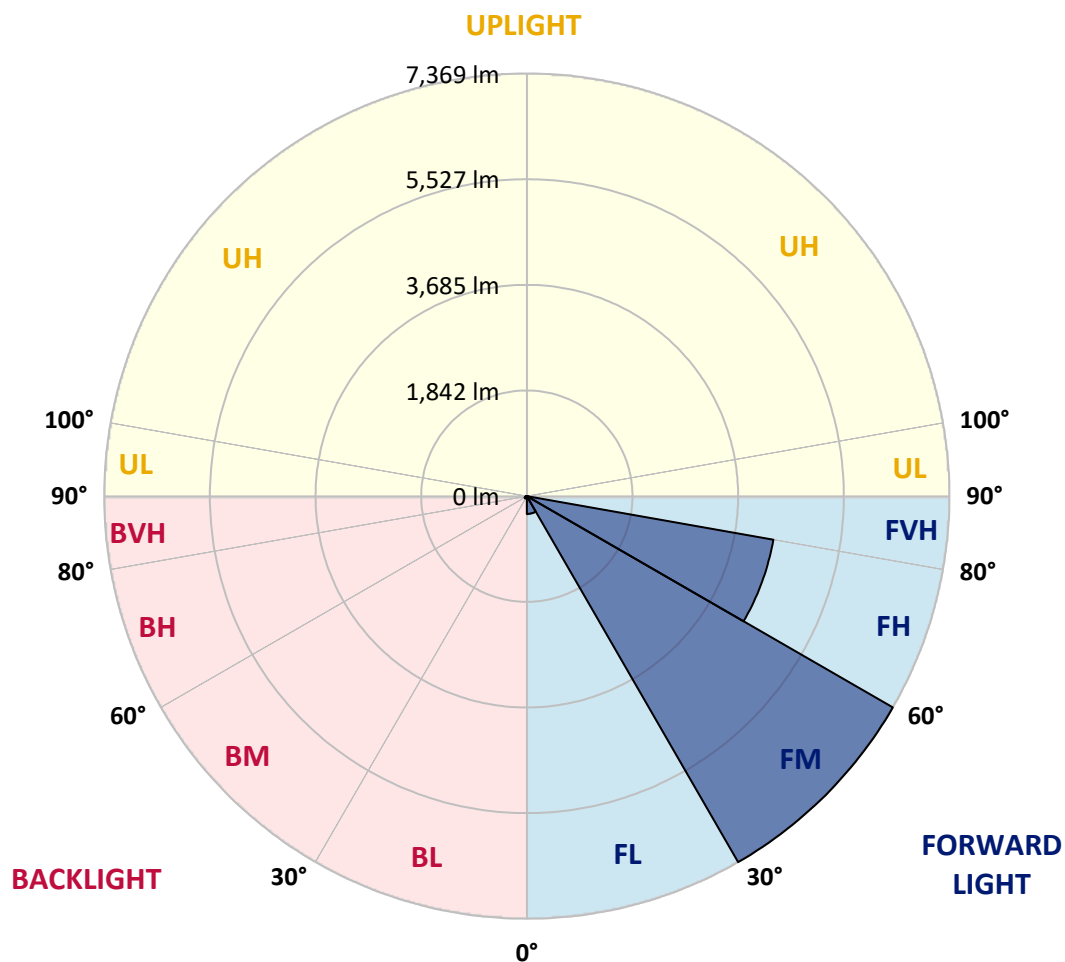
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	311.1	2.6			
FM	(30°-60°)	7369.5	60.6			
FH	(60°-80°)	4365.8	35.9			G2/5000
FVH	(80°-90°)	21.9	0.2			G1/100
BL	(0°-30°)	8.1	0.1	B0/110		
BM	(30°-60°)	45.4	0.4	B0/220		
BH	(60°-80°)	28.3	0.2	B0/110		G0/110
BVH	(80°-90°)	1.1	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
2.5°	68.8	68.8	66.1	62.4	58.7	55.1	54.2	52.3	51.4	50.5
5°	71.6	71.6	70.7	67.9	64.3	61.5	61.5	58.7	56.9	55.1
7.5°	73.4	74.4	76.2	75.3	73.4	70.7	70.7	68.8	66.1	61.5
10°	76.2	78.9	82.6	84.4	85.4	85.4	84.4	83.5	78.9	72.5
12.5°	78.9	84.4	93.6	102.8	108.3	115.7	114.7	112.9	101.0	87.2
15°	84.4	92.7	112.0	138.6	179.9	205.6	215.7	206.5	167.1	117.5
17.5°	90.9	104.6	162.5	290.1	475.5	563.6	616.8	573.7	380.0	223.1
20°	97.3	127.6	302.0	751.8	1233.7	1521.9	1601.8	1476.9	948.2	425.0
22.5°	108.3	179.0	612.3	1554.0	2658.3	3090.7	3172.3	2773.1	1790.9	839.0
25°	131.3	259.8	1055.6	2532.6	3967.3	4697.0	4663.1	4139.8	2905.2	1340.2
27.5°	164.3	378.2	1596.3	3598.3	5221.2	5864.6	5941.7	5294.6	3872.7	1970.8
30°	212.0	524.1	2176.4	4451.9	6226.3	6922.1	6934.9	6265.8	4738.3	2524.3
32.5°	257.9	661.8	2684.0	5277.2	7216.7	7979.5	8036.4	7213.1	5384.5	3100.8
35°	292.8	751.8	3198.1	6002.3	8215.4	9266.5	9262.8	8285.2	6150.1	3615.7
37.5°	295.6	841.7	3663.4	6744.0	9480.3	10657.1	10773.7	9696.0	7075.4	4252.7
40°	289.1	942.7	4252.7	7900.6	11759.5	13565.1	13667.9	12309.4	8931.4	5343.2
42.5°	296.5	1118.0	5209.2	10036.6	15544.1	18137.3	18335.6	16907.3	12343.3	7568.3
45°	335.0	1447.6	7213.1	13610.1	20938.8	24100.1	24034.0	21977.0	16313.4	10955.4
47.5°	462.6	2254.4	10183.5	17088.1	24386.5	27201.8	27258.7	24744.5	18630.2	13559.6
50°	711.4	3449.6	12679.3	18926.7	25869.0	28693.4	28640.2	25735.0	19510.5	14841.9
52.5°	925.3	4314.2	13931.4	19572.0	26059.0	29430.5	29426.8	25995.6	19647.3	14952.1
55°	978.5	4379.4	13941.4	19606.9	26484.9	30395.3	30516.4	26637.3	19824.4	14471.1
57.5°	957.4	3877.3	13359.5	19808.8	27243.1	31141.5	31148.0	27258.7	20274.2	14176.4
58°	939.0	3798.4	13242.0	19923.6	27373.4	31172.7	31157.1	27287.2	20640.5	14165.4
60°	836.2	3298.1	12783.9	20216.4	27179.8	30532.0	30386.1	26665.7	20586.3	14052.5
62.5°	657.2	2572.9	12333.2	19877.7	25103.4	27430.4	27490.9	23608.1	18767.0	13394.4
65°	523.2	1917.5	11393.3	17436.0	20671.7	22525.9	22751.7	19197.5	15664.4	11341.9
67.5°	416.7	1386.1	9557.4	13881.8	16357.4	18800.0	18964.3	16117.8	12135.9	8690.0
70°	338.7	937.2	6597.1	10152.3	13491.7	16238.1	16248.2	13389.8	9058.1	5693.9
72.5°	300.2	649.0	3829.6	7404.0	10939.8	13231.9	12964.8	10865.5	6961.5	3372.5
75°	259.8	430.5	1878.1	4526.3	6632.9	6677.9	6779.8	5040.3	3479.9	1603.6
77.5°	213.9	305.7	739.8	1236.4	1989.1	2546.3	2640.9	2001.1	1157.5	394.7
80°	146.9	145.0	199.2	379.1	569.1	713.2	665.5	515.0	302.9	151.5
82.5°	63.3	68.8	90.0	108.3	88.1	85.4	81.7	52.3	40.4	31.2
85°	20.2	18.4	19.3	19.3	15.6	11.9	11.9	5.5	0.0	0.0
87.5°	10.1	8.3	8.3	7.3	4.6	1.8	0.9	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°
53.2	0°	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
49.6	2.5°	48.7	48.7	46.8	45.0	44.1	42.2	41.3	40.4	39.5	38.6
53.2	5°	51.4	50.5	47.7	45.0	42.2	39.5	37.6	35.8	34.0	33.0
58.7	7.5°	56.0	54.2	48.7	44.1	40.4	36.7	34.9	32.1	30.3	27.5
65.2	10°	61.5	57.8	50.5	45.0	39.5	34.9	32.1	29.4	26.6	22.9
74.4	12.5°	68.8	62.4	53.2	44.1	37.6	32.1	29.4	25.7	22.9	20.2
86.3	15°	75.3	67.0	54.2	44.1	35.8	29.4	25.7	22.0	19.3	15.6
108.3	17.5°	84.4	70.7	53.2	41.3	33.0	25.7	22.0	19.3	14.7	9.2
160.6	20°	100.1	73.4	51.4	38.6	28.5	21.1	16.5	12.9	6.4	1.8
241.4	22.5°	124.8	80.8	49.6	34.9	24.8	16.5	11.0	4.6	0.0	0.0
367.2	25°	172.6	93.6	49.6	33.0	22.0	11.9	3.7	0.0	0.0	0.0
521.4	27.5°	229.5	111.1	49.6	28.5	17.4	6.4	0.0	0.0	0.0	0.0
710.5	30°	287.3	130.3	49.6	24.8	13.8	0.9	0.0	0.0	0.0	0.0
874.8	32.5°	342.4	146.9	50.5	21.1	9.2	0.0	0.0	0.0	0.0	0.0
1102.4	35°	398.4	149.6	49.6	18.4	5.5	0.0	0.0	0.0	0.0	0.0
1381.5	37.5°	470.0	144.1	46.8	16.5	2.8	0.0	0.0	0.0	0.0	0.0
1817.5	40°	578.3	146.9	44.1	15.6	0.9	0.0	0.0	0.0	0.0	0.0
2595.0	42.5°	778.4	158.8	40.4	15.6	0.0	0.0	0.0	0.0	0.0	0.0
4133.4	45°	1345.7	213.0	36.7	16.5	0.0	0.0	0.0	0.0	0.0	0.0
6205.2	47.5°	2226.0	382.8	35.8	16.5	0.0	0.0	0.0	0.0	0.0	0.0
7474.7	50°	2841.0	481.9	37.6	17.4	0.0	0.0	0.0	0.0	0.0	0.0
7633.5	52.5°	2836.4	537.0	39.5	18.4	3.7	0.0	0.0	0.0	0.0	0.0
7035.9	55°	2521.5	547.1	42.2	20.2	11.9	0.0	0.0	0.0	0.0	0.0
6046.4	57.5°	2107.6	499.4	48.7	24.8	22.0	0.0	0.0	0.0	0.0	0.0
5891.2	58°	2034.1	477.3	50.5	25.7	23.9	0.0	0.0	0.0	0.0	0.0
5110.1	60°	1667.0	389.2	64.3	32.1	32.1	0.0	0.0	0.0	0.0	0.0
4189.4	62.5°	1151.1	339.6	73.4	41.3	33.0	0.0	0.0	0.0	0.0	0.0
3088.8	65°	814.2	306.6	79.9	44.1	26.6	0.0	0.0	0.0	0.0	0.0
2194.8	67.5°	608.6	282.7	88.1	45.0	13.8	0.0	0.0	0.0	0.0	0.0
1376.9	70°	466.3	265.3	108.3	47.7	3.7	0.0	0.0	0.0	0.0	0.0
820.6	72.5°	380.0	245.1	131.3	49.6	0.0	0.0	0.0	0.0	0.0	0.0
492.0	75°	314.8	221.2	126.7	54.2	0.0	0.0	0.0	0.0	0.0	0.0
262.5	77.5°	209.3	171.7	115.7	54.2	0.0	0.0	0.0	0.0	0.0	0.0
93.6	80°	73.4	67.9	90.0	47.7	0.0	0.0	0.0	0.0	0.0	0.0
19.3	82.5°	11.0	9.2	12.9	16.5	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°
53.2	0°	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
37.6	2.5°	37.6	37.6	36.7	37.6	37.6	39.5	44.1	50.5	57.8	60.6
32.1	5°	31.2	30.3	29.4	29.4	29.4	32.1	35.8	43.1	51.4	55.1
26.6	7.5°	25.7	24.8	23.9	22.9	22.9	24.8	29.4	37.6	45.9	49.6
22.0	10°	21.1	19.3	18.4	17.4	17.4	19.3	23.9	32.1	41.3	45.0
18.4	12.5°	17.4	14.7	12.9	11.9	11.0	13.8	18.4	25.7	35.8	40.4
13.8	15°	11.9	9.2	6.4	5.5	4.6	7.3	11.9	20.2	30.3	35.8
7.3	17.5°	6.4	2.8	0.9	0.0	0.0	1.8	5.5	14.7	24.8	29.4
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	18.4	22.9
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	11.0	15.6
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	8.3
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
0.0	30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	7.3
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°
53.2	0°	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
63.3	2.5°	65.2	64.3	62.4	60.6	60.6	60.6	63.3	66.1	68.8	68.8
56.9	5°	60.6	60.6	59.7	57.8	57.8	58.7	62.4	67.0	70.7	71.6
52.3	7.5°	56.0	57.8	56.0	55.1	56.0	56.9	60.6	66.1	71.6	73.4
48.7	10°	53.2	54.2	54.2	53.2	53.2	55.1	58.7	66.1	73.4	76.2
44.1	12.5°	49.6	51.4	50.5	50.5	50.5	52.3	56.9	65.2	75.3	78.9
39.5	15°	45.9	48.7	48.7	47.7	47.7	48.7	55.1	64.3	78.0	84.4
34.0	17.5°	42.2	45.0	45.9	44.1	44.1	45.9	52.3	64.3	79.9	90.9
27.5	20°	34.9	39.5	42.2	39.5	39.5	41.3	47.7	60.6	80.8	97.3
20.2	22.5°	27.5	32.1	35.8	34.9	34.9	35.8	44.1	57.8	81.7	108.3
11.9	25°	20.2	24.8	27.5	29.4	29.4	32.1	40.4	56.0	85.4	131.3
5.5	27.5°	11.9	17.4	21.1	22.9	23.9	27.5	37.6	54.2	91.8	164.3
0.0	30°	5.5	10.1	14.7	18.4	18.4	24.8	34.9	52.3	100.1	212.0
0.0	32.5°	0.0	4.6	7.3	12.9	13.8	20.2	32.1	50.5	112.0	257.9
0.0	35°	0.0	0.0	3.7	10.1	10.1	16.5	29.4	48.7	130.3	292.8
0.0	37.5°	0.0	0.0	0.0	7.3	8.3	14.7	28.5	47.7	134.0	295.6
0.0	40°	0.0	0.0	0.0	5.5	6.4	13.8	28.5	48.7	121.2	289.1
0.0	42.5°	0.0	0.0	0.0	3.7	4.6	13.8	28.5	50.5	109.2	296.5
0.0	45°	0.0	0.0	0.0	2.8	3.7	14.7	27.5	49.6	102.8	335.0
0.0	47.5°	0.0	0.0	0.0	3.7	5.5	14.7	26.6	48.7	103.7	462.6
0.0	50°	0.0	0.0	0.0	4.6	6.4	14.7	27.5	46.8	113.8	711.4
0.0	52.5°	0.0	0.0	0.0	3.7	5.5	16.5	30.3	45.9	123.9	925.3
0.0	55°	0.0	0.0	0.0	0.9	2.8	21.1	33.0	45.9	139.5	978.5
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	23.9	37.6	48.7	165.2	957.4
0.0	58°	0.0	0.0	0.0	0.0	0.0	23.9	38.6	48.7	167.1	939.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	23.9	42.2	54.2	179.9	836.2
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	20.2	50.5	67.9	187.3	657.2
0.0	65°	0.0	0.0	0.0	0.0	0.0	16.5	59.7	74.4	192.8	523.2
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	15.6	61.5	75.3	195.5	416.7
0.0	70°	0.0	0.0	0.0	0.0	0.0	16.5	60.6	80.8	204.7	338.7
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	18.4	55.1	89.0	204.7	300.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	19.3	51.4	100.1	186.3	259.8
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	18.4	50.5	116.6	166.1	213.9
0.0	80°	1.8	2.8	2.8	1.8	1.8	15.6	49.6	118.4	141.4	146.9
0.9	82.5°	5.5	7.3	6.4	4.6	4.6	13.8	44.1	99.1	73.4	63.3
5.5	85°	10.1	11.9	11.9	10.1	10.1	12.9	27.5	35.8	24.8	20.2
10.1	87.5°	13.8	15.6	15.6	13.8	13.8	12.9	11.9	11.0	10.1	10.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-13

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-927-U-5WQ

Data in this report applies to families of products including GSS-SB1A-927-U-5WQ

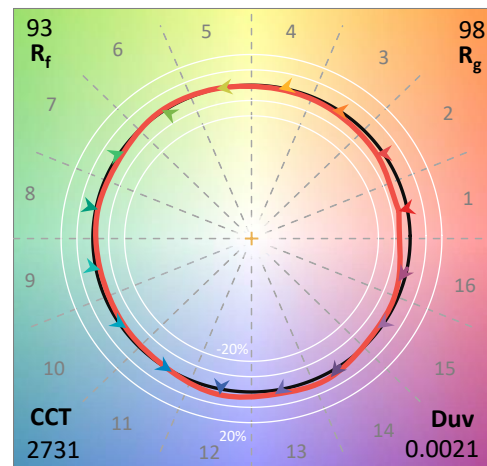
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-13
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/15/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGraw-Edison
 Catalog Number: **GSS-SB1A-927-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K): 2731
 CIE u' : 0.2605
 CIE v' : 0.5298
 Duv: 0.0021
 CIE x: 0.4610
 CIE y: 0.4166
 CIE z: 0.1224
 Peak Wavelength (nm): 622
 Dominant Wavelength (nm): 583
 Purity: 63.43685
 R_f: 92.6
 R_g: 98

CRI (Ra): 91.8
 R1: 91.4
 R2: 95.1
 R3: 97.6
 R4: 92.3
 R5: 91.1
 R6: 94.7
 R7: 92.3
 R8: 80.0
 R9: 54.7
 R10: 87.7
 R11: 92.9
 R12: 84.0
 R13: 92.2
 R14: 97.8
 R15: 86.8



Test Conditions

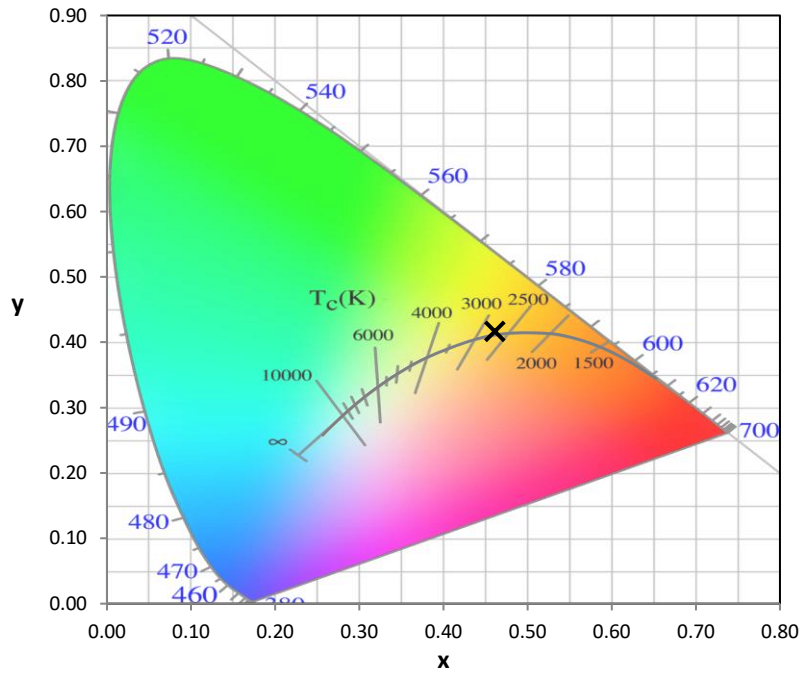
Stabilization Time: M
 Operation Time: 1H 0M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-13

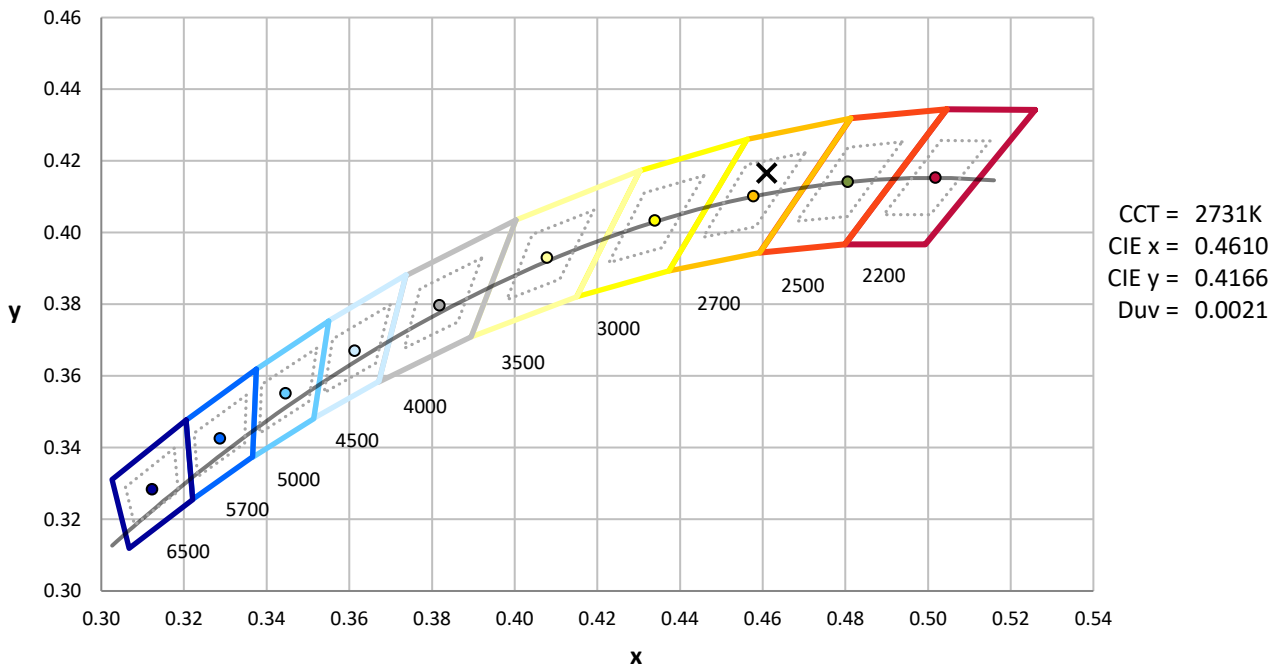
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



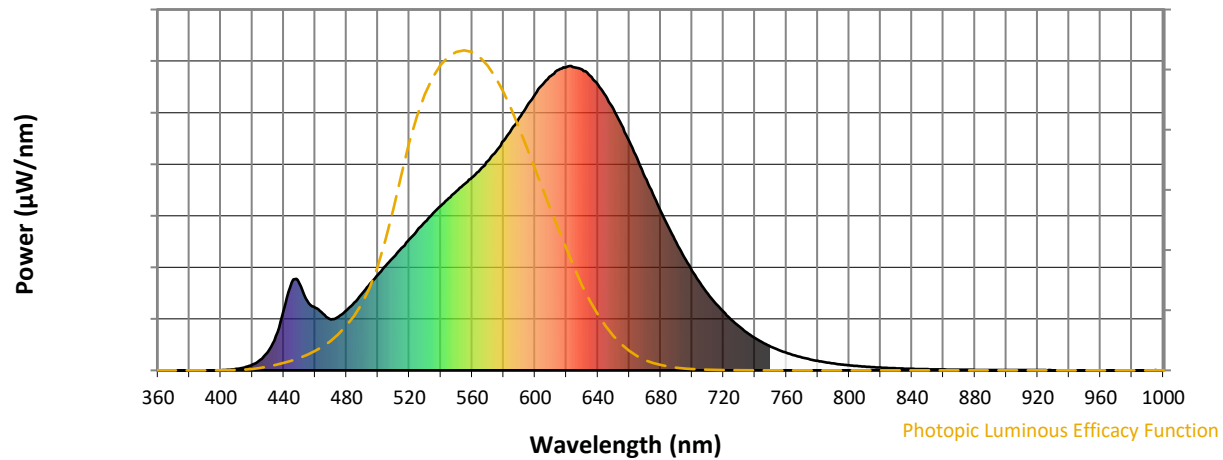
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-13

Photopic Flux vs. Wavelength

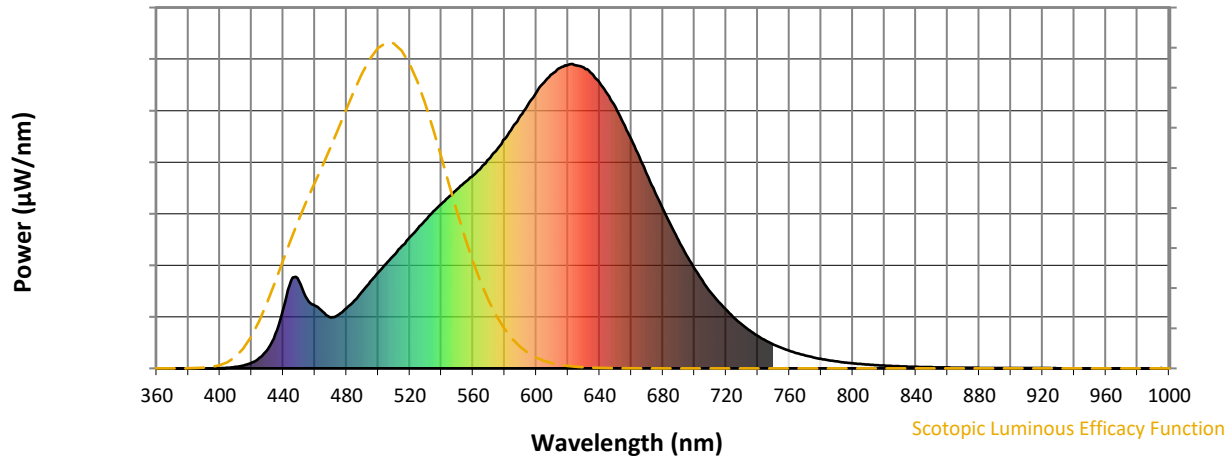


Photopic Lumens: NR

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	253	NR	620	997	NR	750	78	NR	880	2	NR
365	0	NR	495	285	NR	625	996	NR	755	67	NR	885	1	NR
370	0	NR	500	314	NR	630	989	NR	760	58	NR	890	1	NR
375	0	NR	505	343	NR	635	969	NR	765	50	NR	895	1	NR
380	0	NR	510	372	NR	640	939	NR	770	42	NR	900	1	NR
385	0	NR	515	401	NR	645	901	NR	775	36	NR	905	1	NR
390	0	NR	520	431	NR	650	858	NR	780	31	NR	910	1	NR
395	0	NR	525	459	NR	655	806	NR	785	26	NR	915	1	NR
400	0	NR	530	488	NR	660	752	NR	790	23	NR	920	1	NR
405	2	NR	535	516	NR	665	696	NR	795	19	NR	925	1	NR
410	5	NR	540	540	NR	670	636	NR	800	17	NR	930	0	NR
415	10	NR	545	566	NR	675	579	NR	805	14	NR	935	0	NR
420	19	NR	550	589	NR	680	524	NR	810	12	NR	940	0	NR
425	34	NR	555	612	NR	685	470	NR	815	11	NR	945	0	NR
430	61	NR	560	634	NR	690	421	NR	820	9	NR	950	0	NR
435	113	NR	565	660	NR	695	371	NR	825	8	NR	955	0	NR
440	198	NR	570	688	NR	700	327	NR	830	7	NR	960	0	NR
445	288	NR	575	719	NR	705	288	NR	835	6	NR	965	0	NR
450	286	NR	580	754	NR	710	251	NR	840	5	NR	970	0	NR
455	228	NR	585	791	NR	715	220	NR	845	4	NR	975	0	NR
460	207	NR	590	831	NR	720	192	NR	850	4	NR	980	0	NR
465	186	NR	595	870	NR	725	166	NR	855	3	NR	985	0	NR
470	168	NR	600	907	NR	730	144	NR	860	3	NR	990	1	NR
475	177	NR	605	940	NR	735	124	NR	865	2	NR	995	1	NR
480	198	NR	610	967	NR	740	106	NR	870	2	NR	1000	0	NR
485	223	NR	615	988	NR	745	91	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-13

Scotopic Flux vs. Wavelength



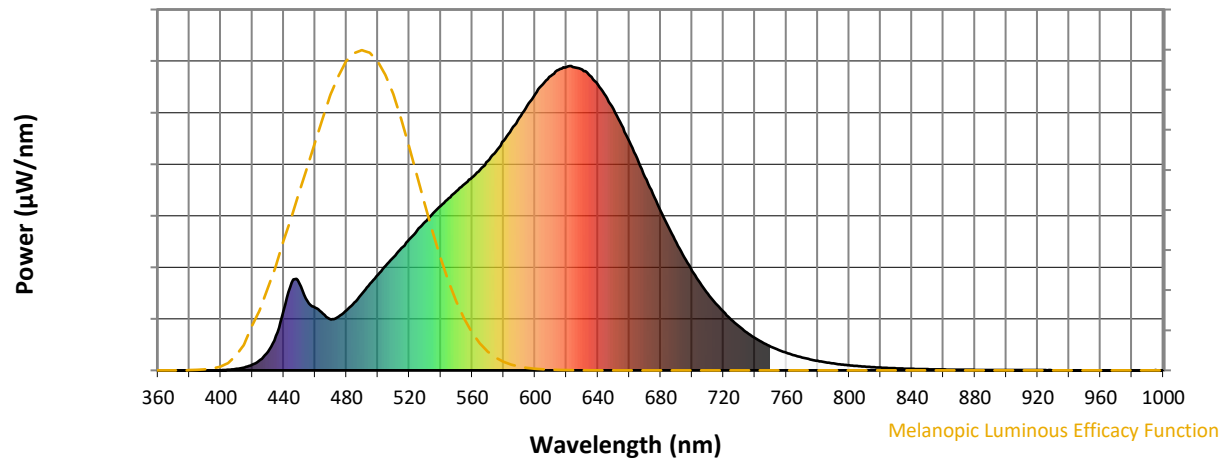
Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	253	NR	620	997	NR	750	78	NR	880	2	NR
365	0	NR	495	285	NR	625	996	NR	755	67	NR	885	1	NR
370	0	NR	500	314	NR	630	989	NR	760	58	NR	890	1	NR
375	0	NR	505	343	NR	635	969	NR	765	50	NR	895	1	NR
380	0	NR	510	372	NR	640	939	NR	770	42	NR	900	1	NR
385	0	NR	515	401	NR	645	901	NR	775	36	NR	905	1	NR
390	0	NR	520	431	NR	650	858	NR	780	31	NR	910	1	NR
395	0	NR	525	459	NR	655	806	NR	785	26	NR	915	1	NR
400	0	NR	530	488	NR	660	752	NR	790	23	NR	920	1	NR
405	2	NR	535	516	NR	665	696	NR	795	19	NR	925	1	NR
410	5	NR	540	540	NR	670	636	NR	800	17	NR	930	0	NR
415	10	NR	545	566	NR	675	579	NR	805	14	NR	935	0	NR
420	19	NR	550	589	NR	680	524	NR	810	12	NR	940	0	NR
425	34	NR	555	612	NR	685	470	NR	815	11	NR	945	0	NR
430	61	NR	560	634	NR	690	421	NR	820	9	NR	950	0	NR
435	113	NR	565	660	NR	695	371	NR	825	8	NR	955	0	NR
440	198	NR	570	688	NR	700	327	NR	830	7	NR	960	0	NR
445	288	NR	575	719	NR	705	288	NR	835	6	NR	965	0	NR
450	286	NR	580	754	NR	710	251	NR	840	5	NR	970	0	NR
455	228	NR	585	791	NR	715	220	NR	845	4	NR	975	0	NR
460	207	NR	590	831	NR	720	192	NR	850	4	NR	980	0	NR
465	186	NR	595	870	NR	725	166	NR	855	3	NR	985	0	NR
470	168	NR	600	907	NR	730	144	NR	860	3	NR	990	1	NR
475	177	NR	605	940	NR	735	124	NR	865	2	NR	995	1	NR
480	198	NR	610	967	NR	740	106	NR	870	2	NR	1000	0	NR
485	223	NR	615	988	NR	745	91	NR	875	2	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.38

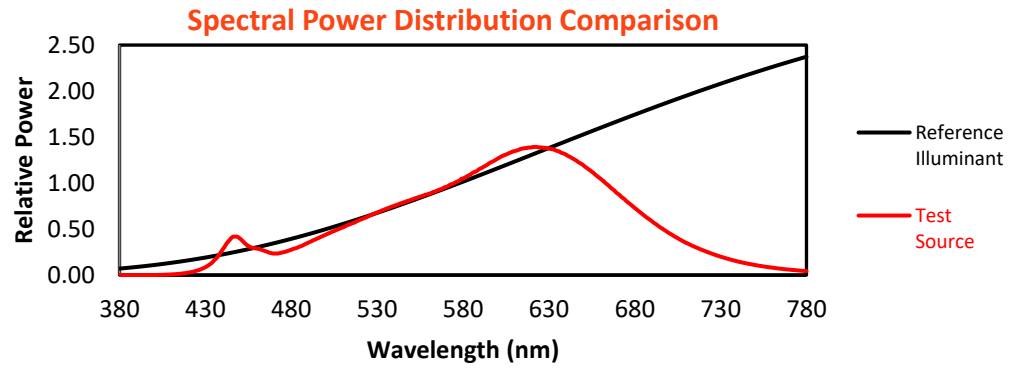
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	253	NR	620	997	NR	750	78	NR	880	2	NR
365	0	NR	495	285	NR	625	996	NR	755	67	NR	885	1	NR
370	0	NR	500	314	NR	630	989	NR	760	58	NR	890	1	NR
375	0	NR	505	343	NR	635	969	NR	765	50	NR	895	1	NR
380	0	NR	510	372	NR	640	939	NR	770	42	NR	900	1	NR
385	0	NR	515	401	NR	645	901	NR	775	36	NR	905	1	NR
390	0	NR	520	431	NR	650	858	NR	780	31	NR	910	1	NR
395	0	NR	525	459	NR	655	806	NR	785	26	NR	915	1	NR
400	0	NR	530	488	NR	660	752	NR	790	23	NR	920	1	NR
405	2	NR	535	516	NR	665	696	NR	795	19	NR	925	1	NR
410	5	NR	540	540	NR	670	636	NR	800	17	NR	930	0	NR
415	10	NR	545	566	NR	675	579	NR	805	14	NR	935	0	NR
420	19	NR	550	589	NR	680	524	NR	810	12	NR	940	0	NR
425	34	NR	555	612	NR	685	470	NR	815	11	NR	945	0	NR
430	61	NR	560	634	NR	690	421	NR	820	9	NR	950	0	NR
435	113	NR	565	660	NR	695	371	NR	825	8	NR	955	0	NR
440	198	NR	570	688	NR	700	327	NR	830	7	NR	960	0	NR
445	288	NR	575	719	NR	705	288	NR	835	6	NR	965	0	NR
450	286	NR	580	754	NR	710	251	NR	840	5	NR	970	0	NR
455	228	NR	585	791	NR	715	220	NR	845	4	NR	975	0	NR
460	207	NR	590	831	NR	720	192	NR	850	4	NR	980	0	NR
465	186	NR	595	870	NR	725	166	NR	855	3	NR	985	0	NR
470	168	NR	600	907	NR	730	144	NR	860	3	NR	990	1	NR
475	177	NR	605	940	NR	735	124	NR	865	2	NR	995	1	NR
480	198	NR	610	967	NR	740	106	NR	870	2	NR	1000	0	NR
485	223	NR	615	988	NR	745	91	NR	875	2	NR			

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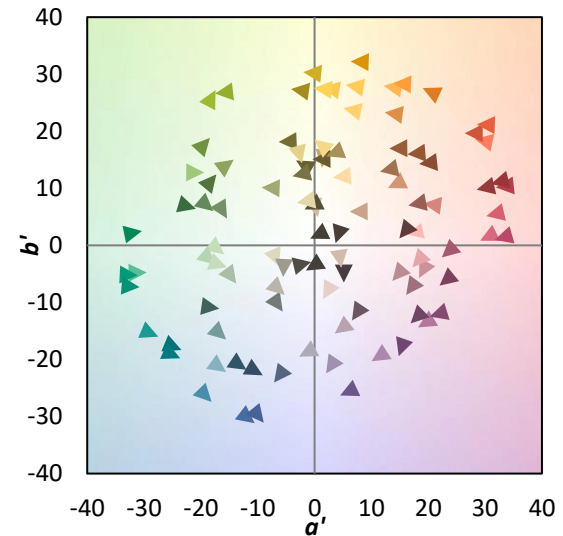
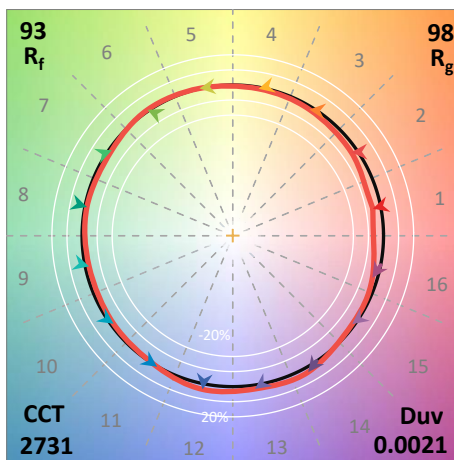
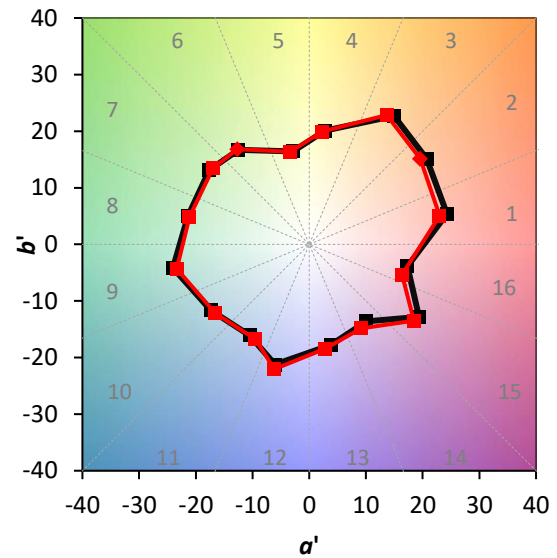
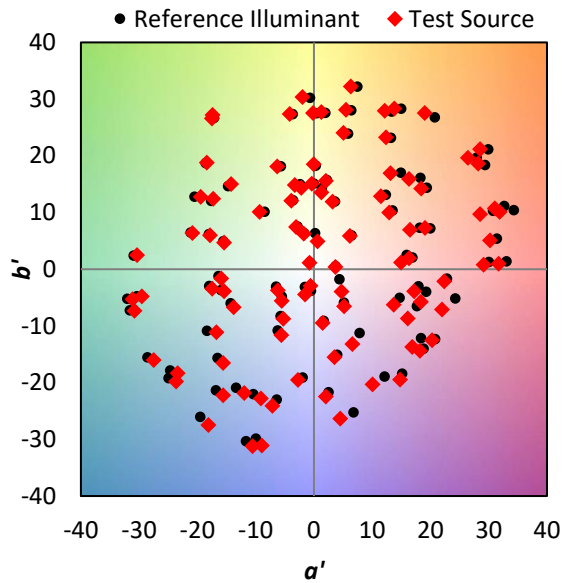
TM-30-18

Summary

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

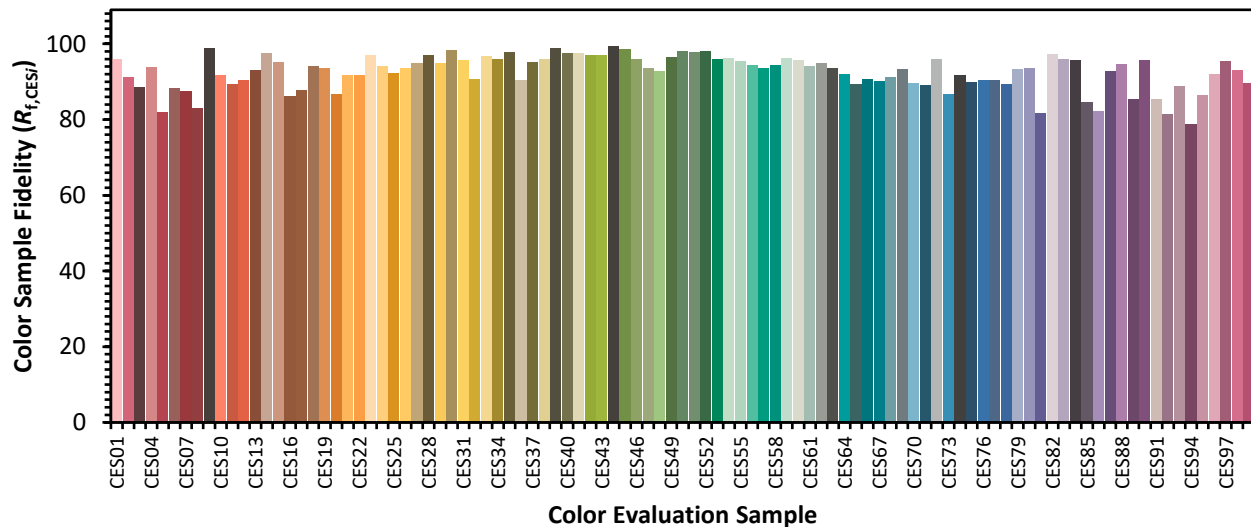


Color Vector Graphics

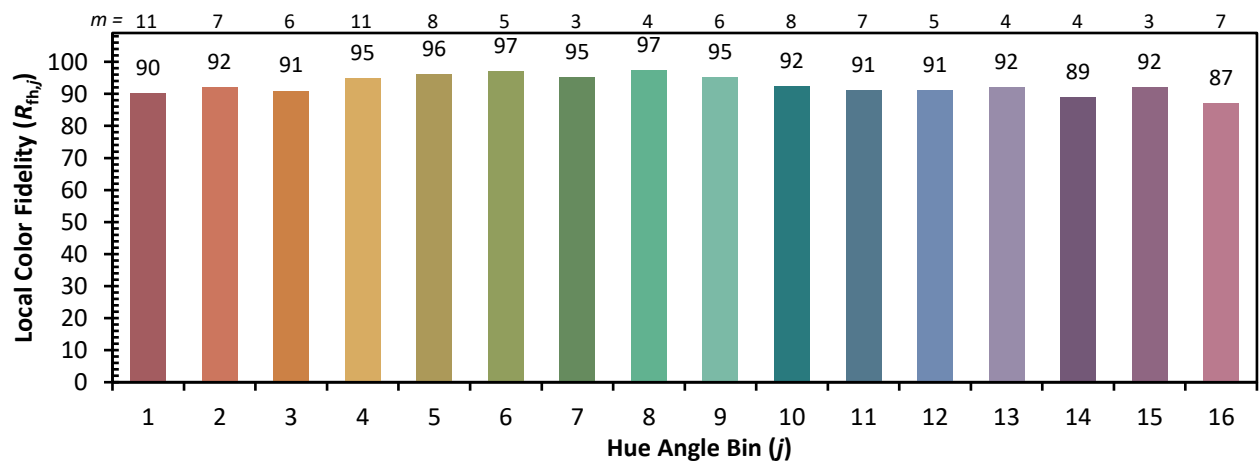
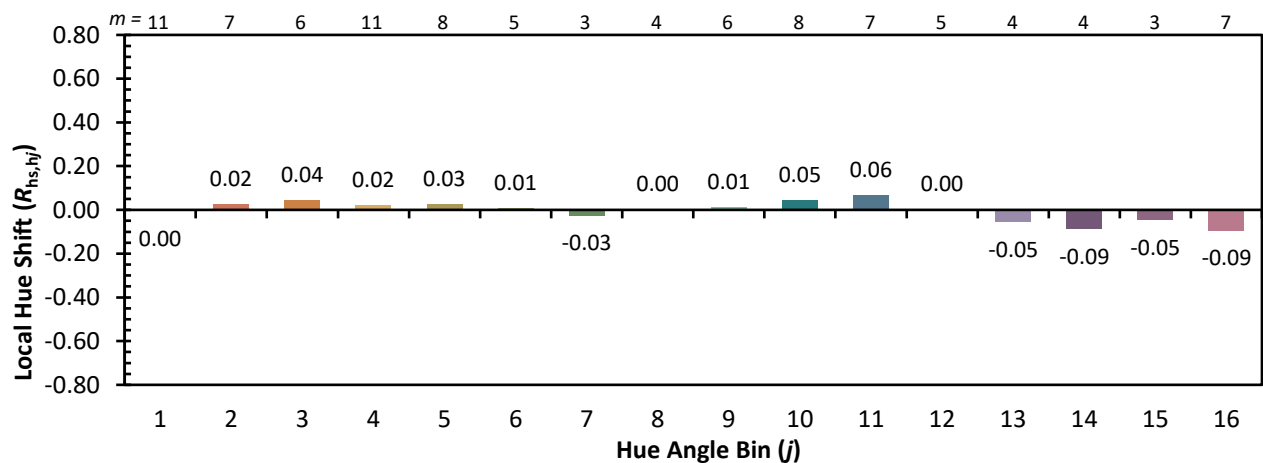
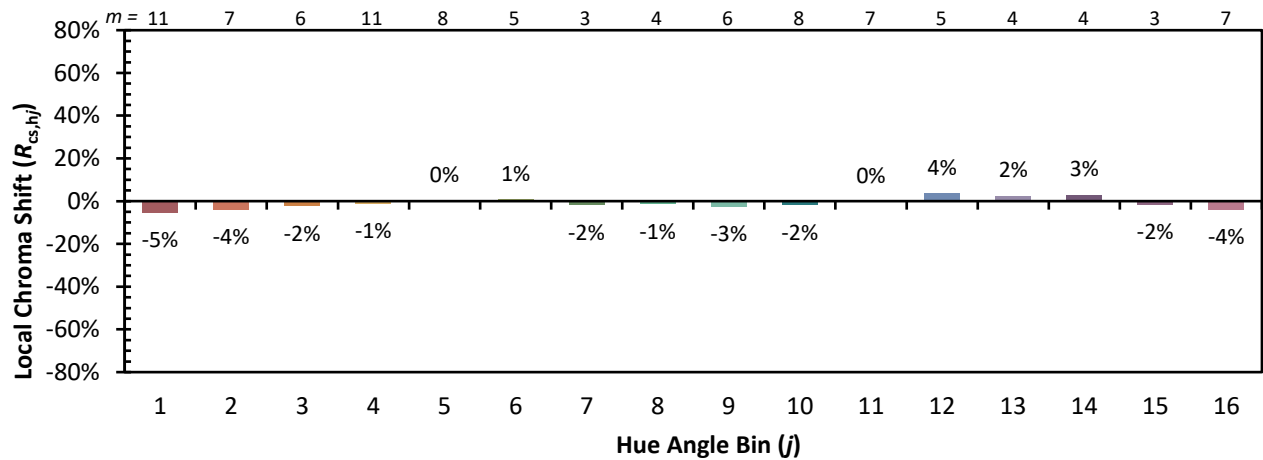


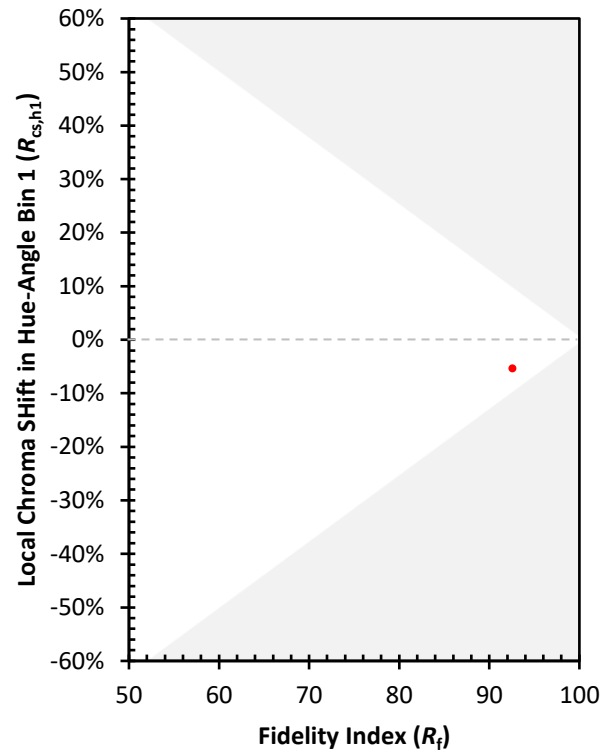
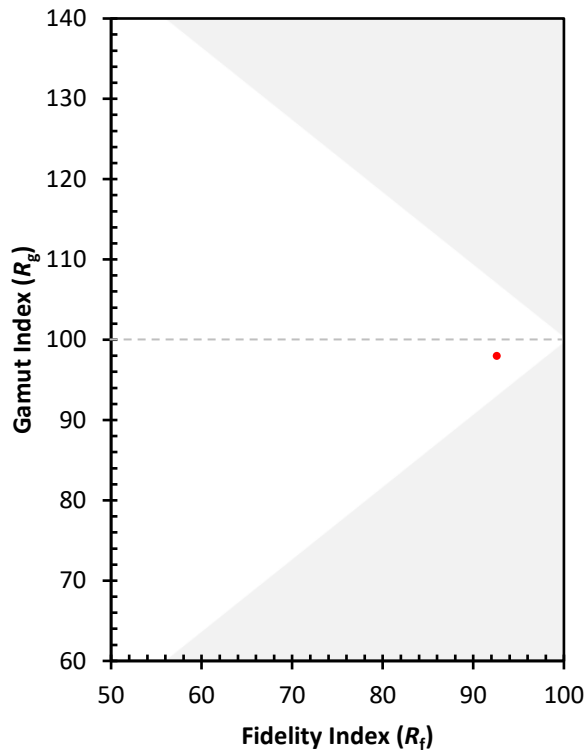
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 94	CES51 = 98	CES76 = 90
CES02 = 64	CES27 = 95	CES52 = 98	CES77 = 90
CES03 = 32	CES28 = 97	CES53 = 96	CES78 = 89
CES04 = 71	CES29 = 95	CES54 = 96	CES79 = 93
CES05 = 51	CES30 = 98	CES55 = 95	CES80 = 94
CES06 = 52	CES31 = 96	CES56 = 94	CES81 = 82
CES07 = 44	CES32 = 91	CES57 = 94	CES82 = 97
CES08 = 43	CES33 = 97	CES58 = 94	CES83 = 96
CES09 = 29	CES34 = 96	CES59 = 96	CES84 = 96
CES10 = 77	CES35 = 98	CES60 = 96	CES85 = 85
CES11 = 59	CES36 = 90	CES61 = 94	CES86 = 82
CES12 = 66	CES37 = 95	CES62 = 95	CES87 = 93
CES13 = 44	CES38 = 96	CES63 = 94	CES88 = 95
CES14 = 74	CES39 = 99	CES64 = 92	CES89 = 85
CES15 = 72	CES40 = 98	CES65 = 89	CES90 = 96
CES16 = 48	CES41 = 98	CES66 = 91	CES91 = 85
CES17 = 50	CES42 = 97	CES67 = 90	CES92 = 82
CES18 = 57	CES43 = 97	CES68 = 91	CES93 = 89
CES19 = 72	CES44 = 99	CES69 = 93	CES94 = 79
CES20 = 68	CES45 = 99	CES70 = 90	CES95 = 87
CES21 = 87	CES46 = 96	CES71 = 89	CES96 = 92
CES22 = 79	CES47 = 94	CES72 = 96	CES97 = 96
CES23 = 92	CES48 = 93	CES73 = 87	CES98 = 93
CES24 = 91	CES49 = 96	CES74 = 92	CES99 = 90
CES25 = 72	CES50 = 98	CES75 = 90	



Color Rendition by Hue-Angle Bin



Measure Comparisons


(END OF REPORT)