

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: P1049909

Luminaire Tested: **GALN-SA5A-927-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049909
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-927-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 5xLight Square PACKAGE
90CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10139.7 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

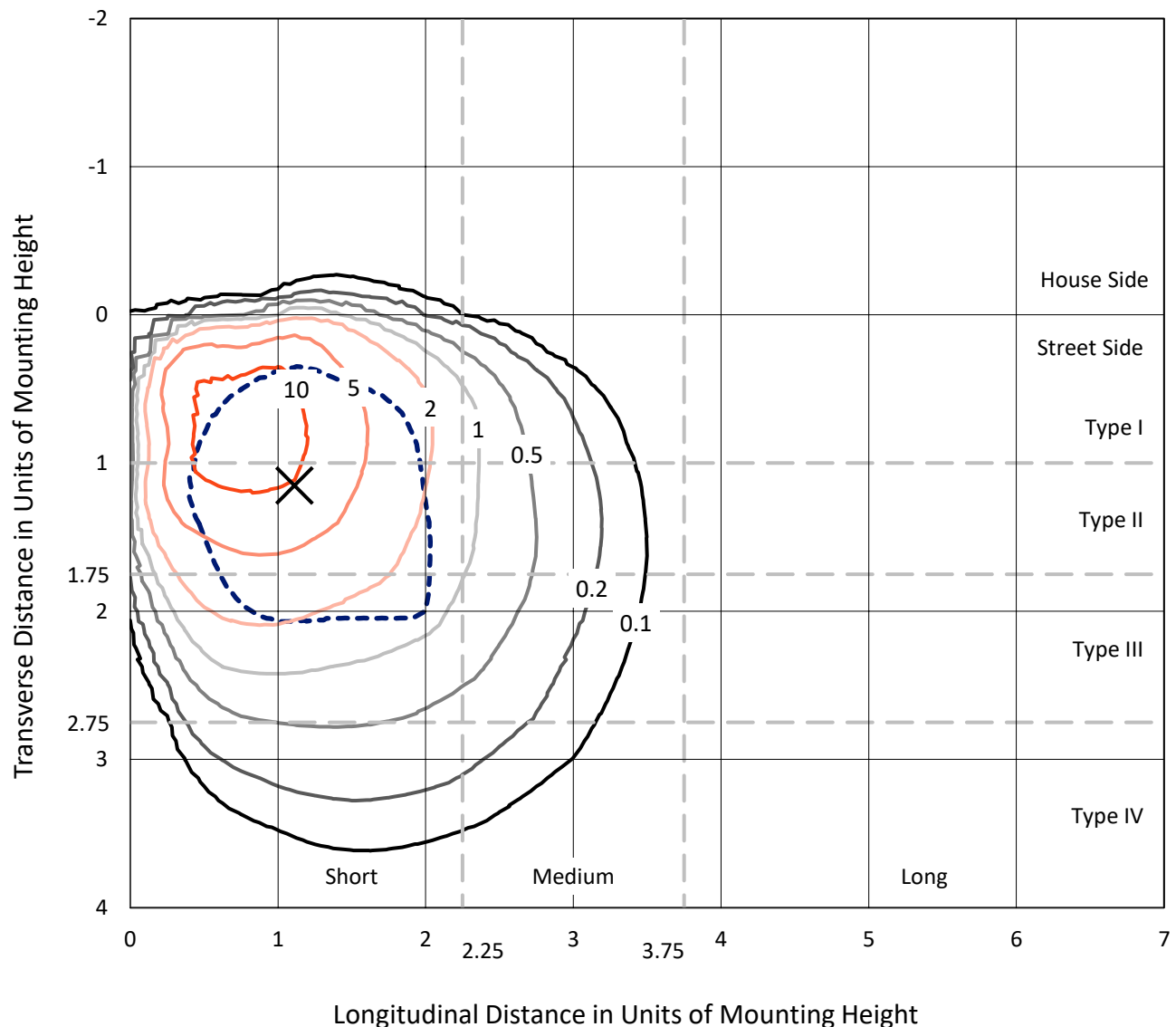
Input Watts (W): 136.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

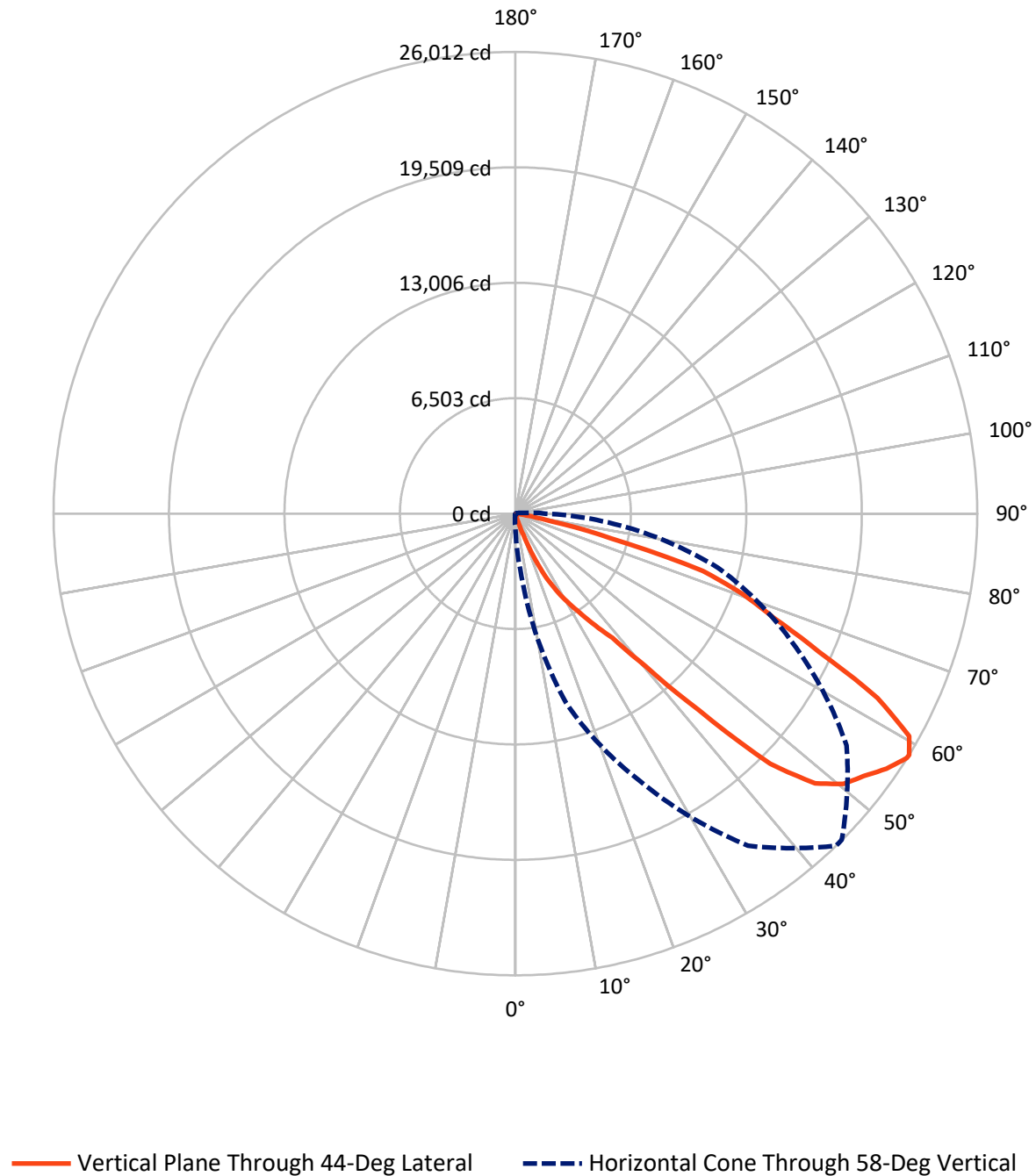
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 17.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	69.2	0.0	69.2
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	10070.4	0.0	10070.4
	% Fixture	99.3	0.0	99.3
Total	Lumens	10139.7	0.0	10139.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.0	0.0
10°-20°	22.2	0.2
20°-30°	240.2	2.4
30°-40°	710.4	7.0
40°-50°	2117.3	20.9
50°-60°	3359.7	33.1
60°-70°	2802.4	27.6
70°-80°	864.3	8.5
80°-90°	19.2	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°	10139.7	100.0
0°-180°	10139.7	100.0



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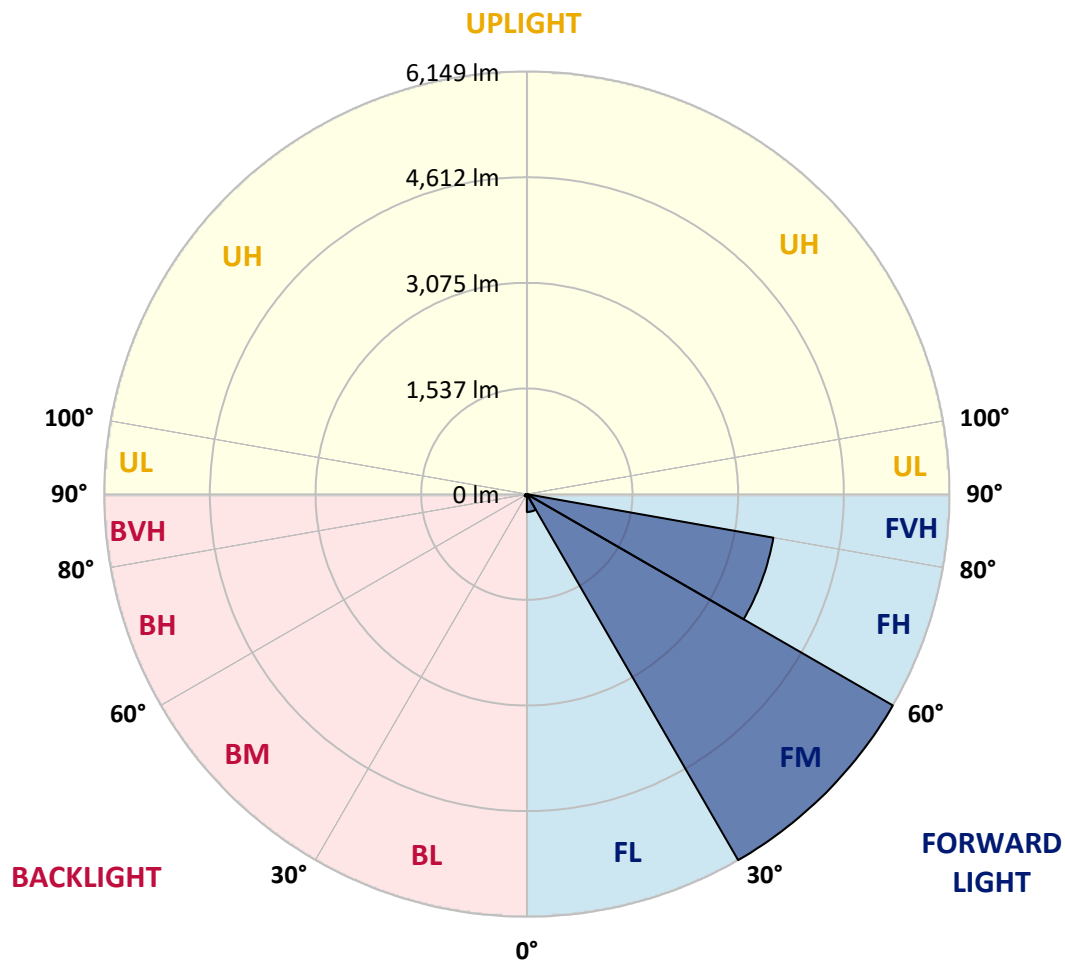
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	259.6	2.6			
FM	(30°-60°)	6149.5	60.6			
FH	(60°-80°)	3643.0	35.9			G2/5000
FVH	(80°-90°)	18.3	0.2			G1/100
BL	(0°-30°)	6.8	0.1	B0/110		
BM	(30°-60°)	37.9	0.4	B0/220		
BH	(60°-80°)	23.6	0.2	B0/110		G0/110
BVH	(80°-90°)	0.9	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2.5°	57.4	57.4	55.1	52.1	49.0	46.0	45.2	43.7	42.9	42.1
5°	59.7	59.7	59.0	56.7	53.6	51.3	51.3	49.0	47.5	46.0
7.5°	61.3	62.0	63.6	62.8	61.3	59.0	59.0	57.4	55.1	51.3
10°	63.6	65.9	68.9	70.5	71.2	71.2	70.5	69.7	65.9	60.5
12.5°	65.9	70.5	78.1	85.8	90.4	96.5	95.7	94.2	84.3	72.8
15°	70.5	77.4	93.4	115.7	150.1	171.6	180.0	172.3	139.4	98.0
17.5°	75.8	87.3	135.6	242.0	396.8	470.3	514.7	478.7	317.1	186.1
20°	81.2	106.5	252.0	627.3	1029.5	1270.0	1336.6	1232.4	791.2	354.6
22.5°	90.4	149.4	510.9	1296.8	2218.2	2579.0	2647.2	2314.0	1494.4	700.1
25°	109.5	216.8	880.9	2113.3	3310.5	3919.4	3891.1	3454.5	2424.3	1118.3
27.5°	137.1	315.6	1332.0	3002.6	4356.8	4893.7	4958.1	4418.1	3231.6	1644.5
30°	176.9	437.4	1816.1	3714.9	5195.5	5776.1	5786.9	5228.5	3953.9	2106.4
32.5°	215.2	552.3	2239.7	4403.5	6022.0	6658.5	6706.0	6019.0	4493.1	2587.4
35°	244.3	627.3	2668.6	5008.6	6855.4	7732.4	7729.3	6913.6	5132.0	3017.1
37.5°	246.6	702.4	3057.0	5627.5	7910.9	8892.9	8990.1	8090.9	5904.1	3548.7
40°	241.3	786.6	3548.7	6592.7	9812.8	11319.4	11405.2	10271.6	7452.8	4458.7
42.5°	247.4	932.9	4346.8	8375.1	12970.8	15134.7	15300.1	14108.3	10299.9	6315.4
45°	279.6	1207.9	6019.0	11357.0	17472.4	20110.4	20055.3	18338.7	13612.7	9141.8
47.5°	386.0	1881.2	8497.6	14259.2	20349.4	22698.6	22746.1	20648.1	15546.0	11314.8
50°	593.6	2878.5	10580.3	15793.4	21586.4	23943.3	23898.9	21474.6	16280.6	12384.9
52.5°	772.1	3600.0	11625.0	16331.9	21745.0	24558.4	24555.3	21692.1	16394.7	12476.8
55°	816.5	3654.4	11633.5	16361.0	22100.4	25363.4	25464.5	22227.5	16542.5	12075.4
57.5°	798.9	3235.4	11147.9	16529.5	22733.1	25986.1	25991.5	22746.1	16917.9	11829.6
58°	783.6	3169.6	11049.8	16625.3	22841.8	26012.2	25999.1	22769.8	17223.5	11820.4
60°	697.8	2752.1	10667.6	16869.6	22680.2	25477.5	25355.7	22251.3	17178.3	11726.2
62.5°	548.4	2147.0	10291.5	16587.0	20947.6	22889.3	22939.9	19699.8	15660.1	11177.0
65°	436.6	1600.1	9507.2	14549.5	17249.5	18796.8	18985.2	16019.4	13071.2	9464.3
67.5°	347.7	1156.6	7975.2	11583.7	13649.5	15687.7	15824.8	13449.6	10126.8	7251.4
70°	282.6	782.0	5505.0	8471.6	11258.1	13549.9	13558.3	11173.1	7558.5	4751.3
72.5°	250.5	541.5	3195.6	6178.3	9128.8	11041.4	10818.5	9066.7	5809.1	2814.2
75°	216.8	359.2	1567.2	3777.0	5534.9	5572.4	5657.4	4205.9	2903.8	1338.1
77.5°	178.5	255.1	617.4	1031.8	1659.8	2124.8	2203.7	1669.8	965.9	329.4
80°	122.6	121.0	166.2	316.3	474.9	595.2	555.3	429.7	252.8	126.4
82.5°	52.9	57.4	75.1	90.4	73.5	71.2	68.2	43.7	33.7	26.0
85°	16.9	15.3	16.1	16.1	13.0	10.0	10.0	4.6	0.0	0.0
87.5°	8.4	6.9	6.9	6.1	3.8	1.5	0.8	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°
44.4	0°	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
41.4	2.5°	40.6	40.6	39.1	37.5	36.8	35.2	34.5	33.7	32.9	32.2
44.4	5°	42.9	42.1	39.8	37.5	35.2	32.9	31.4	29.9	28.3	27.6
49.0	7.5°	46.7	45.2	40.6	36.8	33.7	30.6	29.1	26.8	25.3	23.0
54.4	10°	51.3	48.3	42.1	37.5	32.9	29.1	26.8	24.5	22.2	19.1
62.0	12.5°	57.4	52.1	44.4	36.8	31.4	26.8	24.5	21.4	19.1	16.9
72.0	15°	62.8	55.9	45.2	36.8	29.9	24.5	21.4	18.4	16.1	13.0
90.4	17.5°	70.5	59.0	44.4	34.5	27.6	21.4	18.4	16.1	12.3	7.7
134.0	20°	83.5	61.3	42.9	32.2	23.7	17.6	13.8	10.7	5.4	1.5
201.4	22.5°	104.2	67.4	41.4	29.1	20.7	13.8	9.2	3.8	0.0	0.0
306.4	25°	144.0	78.1	41.4	27.6	18.4	10.0	3.1	0.0	0.0	0.0
435.1	27.5°	191.5	92.7	41.4	23.7	14.6	5.4	0.0	0.0	0.0	0.0
592.9	30°	239.7	108.8	41.4	20.7	11.5	0.8	0.0	0.0	0.0	0.0
730.0	32.5°	285.7	122.6	42.1	17.6	7.7	0.0	0.0	0.0	0.0	0.0
919.9	35°	332.4	124.9	41.4	15.3	4.6	0.0	0.0	0.0	0.0	0.0
1152.8	37.5°	392.2	120.3	39.1	13.8	2.3	0.0	0.0	0.0	0.0	0.0
1516.6	40°	482.6	122.6	36.8	13.0	0.8	0.0	0.0	0.0	0.0	0.0
2165.4	42.5°	649.5	132.5	33.7	13.0	0.0	0.0	0.0	0.0	0.0	0.0
3449.1	45°	1122.9	177.7	30.6	13.8	0.0	0.0	0.0	0.0	0.0	0.0
5177.9	47.5°	1857.5	319.4	29.9	13.8	0.0	0.0	0.0	0.0	0.0	0.0
6237.3	50°	2370.7	402.1	31.4	14.6	0.0	0.0	0.0	0.0	0.0	0.0
6369.8	52.5°	2366.8	448.1	32.9	15.3	3.1	0.0	0.0	0.0	0.0	0.0
5871.1	55°	2104.1	456.5	35.2	16.9	10.0	0.0	0.0	0.0	0.0	0.0
5045.4	57.5°	1758.7	416.7	40.6	20.7	18.4	0.0	0.0	0.0	0.0	0.0
4916.0	58°	1697.4	398.3	42.1	21.4	19.9	0.0	0.0	0.0	0.0	0.0
4264.1	60°	1391.0	324.8	53.6	26.8	26.8	0.0	0.0	0.0	0.0	0.0
3495.9	62.5°	960.5	283.4	61.3	34.5	27.6	0.0	0.0	0.0	0.0	0.0
2577.5	65°	679.4	255.8	66.6	36.8	22.2	0.0	0.0	0.0	0.0	0.0
1831.4	67.5°	507.8	235.9	73.5	37.5	11.5	0.0	0.0	0.0	0.0	0.0
1148.9	70°	389.1	221.4	90.4	39.8	3.1	0.0	0.0	0.0	0.0	0.0
684.8	72.5°	317.1	204.5	109.5	41.4	0.0	0.0	0.0	0.0	0.0	0.0
410.6	75°	262.7	184.6	105.7	45.2	0.0	0.0	0.0	0.0	0.0	0.0
219.1	77.5°	174.6	143.2	96.5	45.2	0.0	0.0	0.0	0.0	0.0	0.0
78.1	80°	61.3	56.7	75.1	39.8	0.0	0.0	0.0	0.0	0.0	0.0
16.1	82.5°	9.2	7.7	10.7	13.8	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°
44.4	0°	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
31.4	2.5°	31.4	31.4	30.6	31.4	31.4	32.9	36.8	42.1	48.3	50.6
26.8	5°	26.0	25.3	24.5	24.5	24.5	26.8	29.9	36.0	42.9	46.0
22.2	7.5°	21.4	20.7	19.9	19.1	19.1	20.7	24.5	31.4	38.3	41.4
18.4	10°	17.6	16.1	15.3	14.6	14.6	16.1	19.9	26.8	34.5	37.5
15.3	12.5°	14.6	12.3	10.7	10.0	9.2	11.5	15.3	21.4	29.9	33.7
11.5	15°	10.0	7.7	5.4	4.6	3.8	6.1	10.0	16.9	25.3	29.9
6.1	17.5°	5.4	2.3	0.8	0.0	0.0	1.5	4.6	12.3	20.7	24.5
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	15.3	19.1
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	9.2	13.0
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	6.9
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
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	2.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	6.1
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°
44.4	0°	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
52.9	2.5°	54.4	53.6	52.1	50.6	50.6	50.6	52.9	55.1	57.4	57.4
47.5	5°	50.6	50.6	49.8	48.3	48.3	49.0	52.1	55.9	59.0	59.7
43.7	7.5°	46.7	48.3	46.7	46.0	46.7	47.5	50.6	55.1	59.7	61.3
40.6	10°	44.4	45.2	45.2	44.4	44.4	46.0	49.0	55.1	61.3	63.6
36.8	12.5°	41.4	42.9	42.1	42.1	42.1	43.7	47.5	54.4	62.8	65.9
32.9	15°	38.3	40.6	40.6	39.8	39.8	40.6	46.0	53.6	65.1	70.5
28.3	17.5°	35.2	37.5	38.3	36.8	36.8	38.3	43.7	53.6	66.6	75.8
23.0	20°	29.1	32.9	35.2	32.9	32.9	34.5	39.8	50.6	67.4	81.2
16.9	22.5°	23.0	26.8	29.9	29.1	29.1	29.9	36.8	48.3	68.2	90.4
10.0	25°	16.9	20.7	23.0	24.5	24.5	26.8	33.7	46.7	71.2	109.5
4.6	27.5°	10.0	14.6	17.6	19.1	19.9	23.0	31.4	45.2	76.6	137.1
0.0	30°	4.6	8.4	12.3	15.3	15.3	20.7	29.1	43.7	83.5	176.9
0.0	32.5°	0.0	3.8	6.1	10.7	11.5	16.9	26.8	42.1	93.4	215.2
0.0	35°	0.0	0.0	3.1	8.4	8.4	13.8	24.5	40.6	108.8	244.3
0.0	37.5°	0.0	0.0	0.0	6.1	6.9	12.3	23.7	39.8	111.8	246.6
0.0	40°	0.0	0.0	0.0	4.6	5.4	11.5	23.7	40.6	101.1	241.3
0.0	42.5°	0.0	0.0	0.0	3.1	3.8	11.5	23.7	42.1	91.1	247.4
0.0	45°	0.0	0.0	0.0	2.3	3.1	12.3	23.0	41.4	85.8	279.6
0.0	47.5°	0.0	0.0	0.0	3.1	4.6	12.3	22.2	40.6	86.6	386.0
0.0	50°	0.0	0.0	0.0	3.8	5.4	12.3	23.0	39.1	95.0	593.6
0.0	52.5°	0.0	0.0	0.0	3.1	4.6	13.8	25.3	38.3	103.4	772.1
0.0	55°	0.0	0.0	0.0	0.8	2.3	17.6	27.6	38.3	116.4	816.5
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	19.9	31.4	40.6	137.9	798.9
0.0	58°	0.0	0.0	0.0	0.0	0.0	19.9	32.2	40.6	139.4	783.6
0.0	60°	0.0	0.0	0.0	0.0	0.0	19.9	35.2	45.2	150.1	697.8
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	16.9	42.1	56.7	156.3	548.4
0.0	65°	0.0	0.0	0.0	0.0	0.0	13.8	49.8	62.0	160.9	436.6
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	13.0	51.3	62.8	163.2	347.7
0.0	70°	0.0	0.0	0.0	0.0	0.0	13.8	50.6	67.4	170.8	282.6
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	15.3	46.0	74.3	170.8	250.5
0.0	75°	0.0	0.0	0.0	0.0	0.0	16.1	42.9	83.5	155.5	216.8
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	15.3	42.1	97.3	138.6	178.5
0.0	80°	1.5	2.3	2.3	1.5	1.5	13.0	41.4	98.8	118.0	122.6
0.8	82.5°	4.6	6.1	5.4	3.8	3.8	11.5	36.8	82.7	61.3	52.9
4.6	85°	8.4	10.0	10.0	8.4	8.4	10.7	23.0	29.9	20.7	16.9
8.4	87.5°	11.5	13.0	13.0	11.5	11.5	10.7	10.0	9.2	8.4	8.4
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: SP1-2407-184-13

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

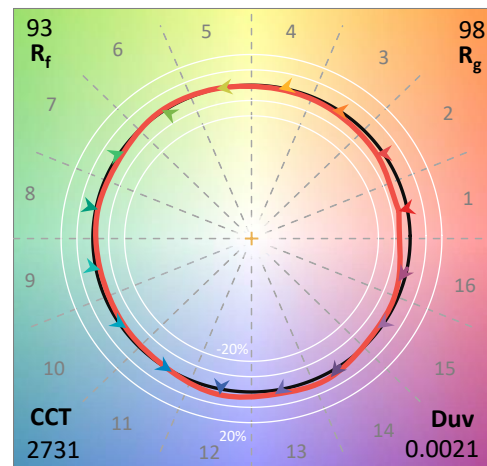
Test Information

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

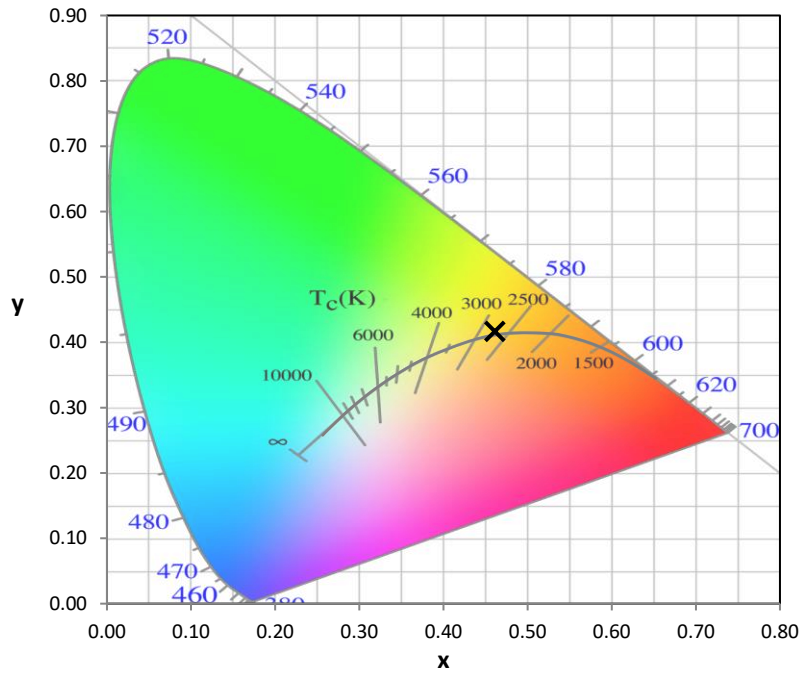
Stabilization Time: M
 Operation Time: 1H 0M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-13

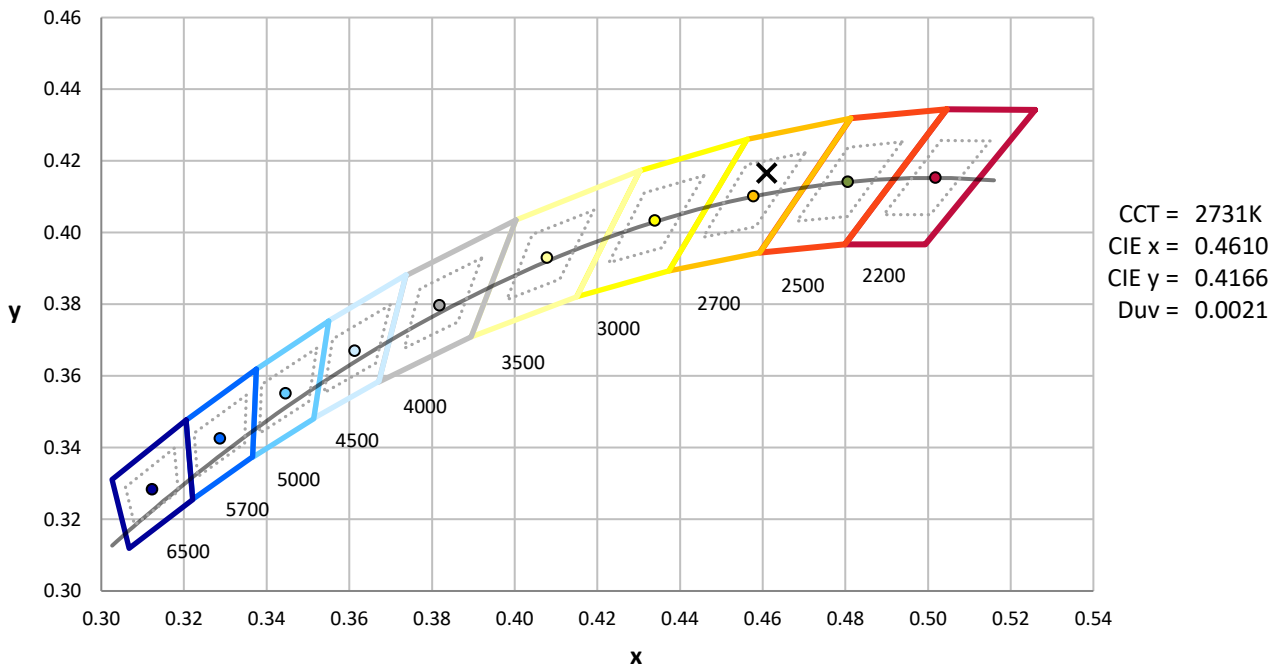
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-13

CIE 1931 Chromaticity Diagram



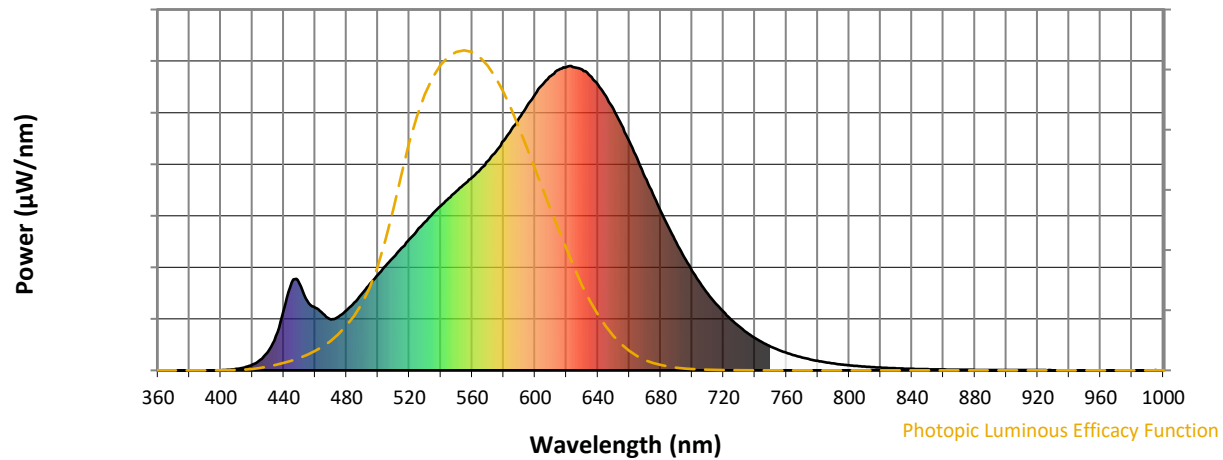
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-13

Photopic Flux vs. Wavelength

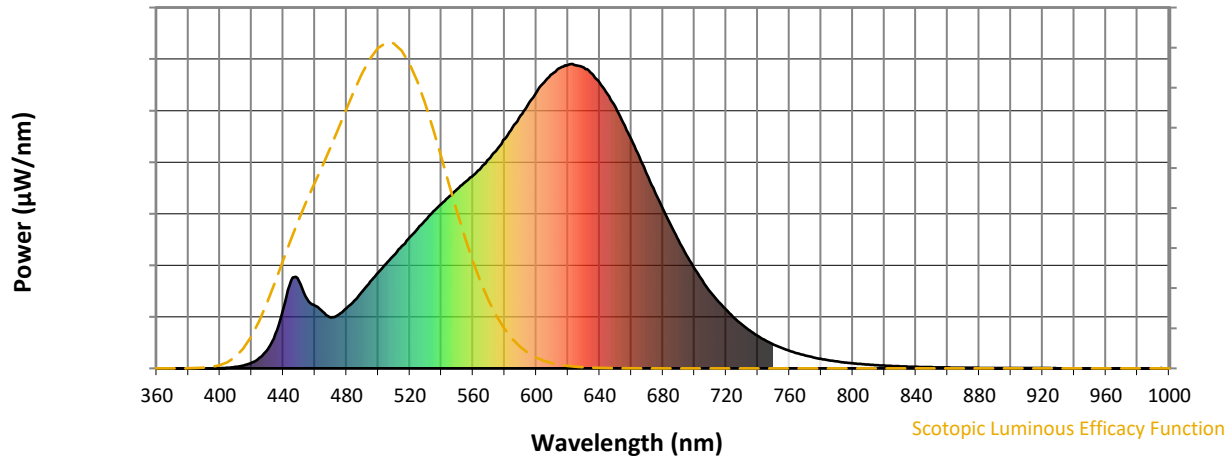


Photopic Lumens: NR

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



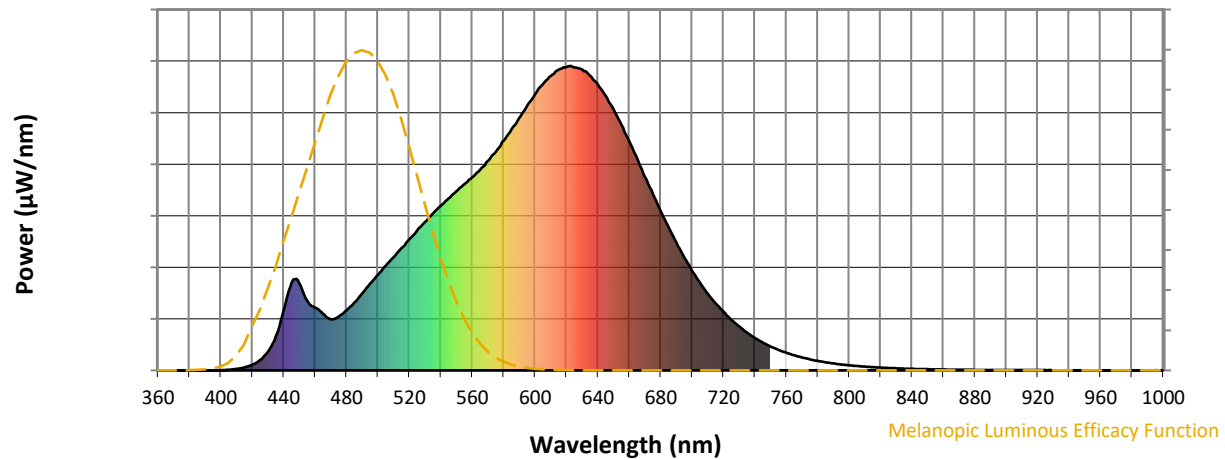
Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power 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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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.38

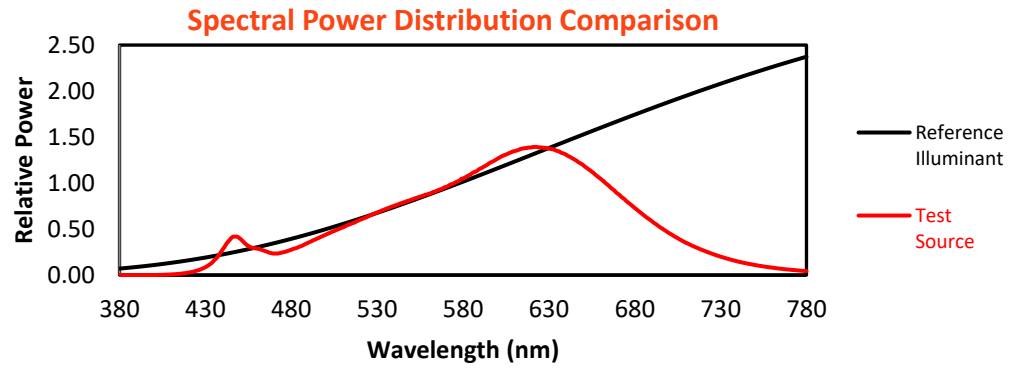
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	253	NR	620	997	NR	750	78	NR	880	2	NR
365	0	NR	495	285	NR	625	996	NR	755	67	NR	885	1	NR
370	0	NR	500	314	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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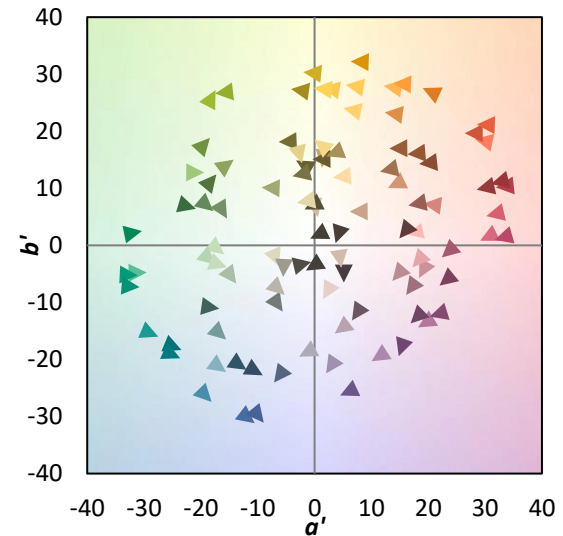
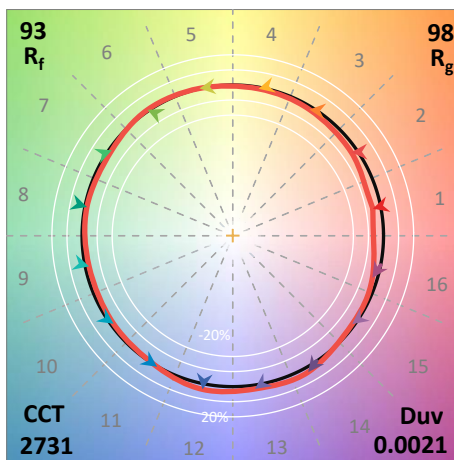
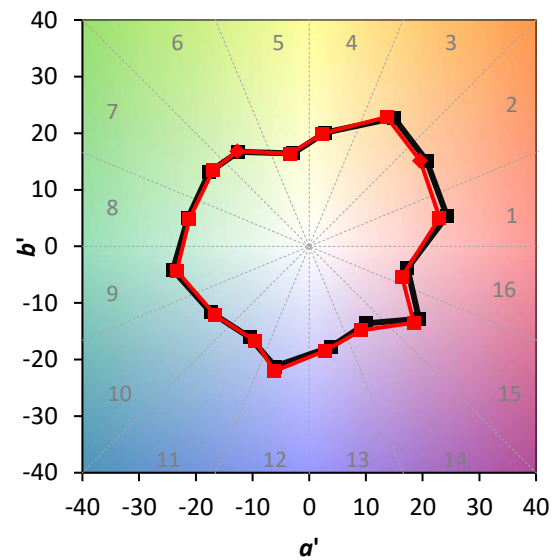
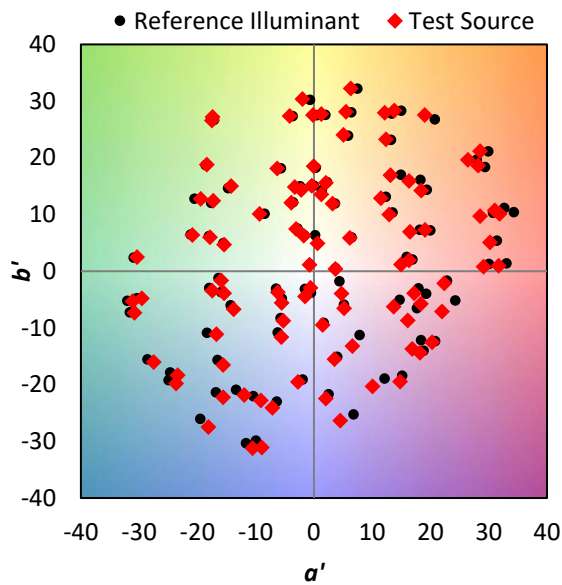
TM-30-18

Summary

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

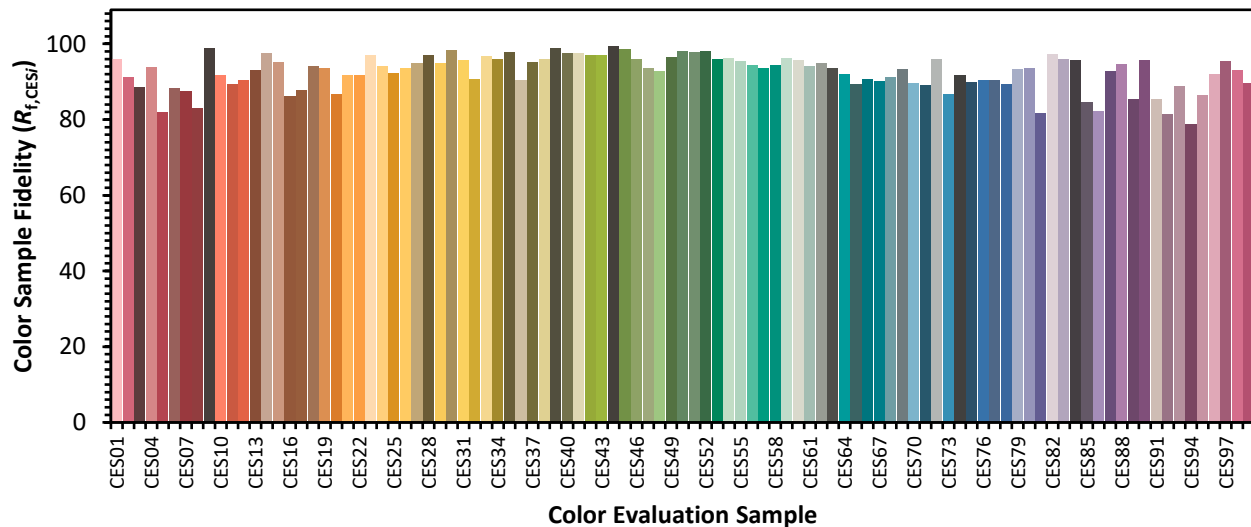


Color Vector Graphics

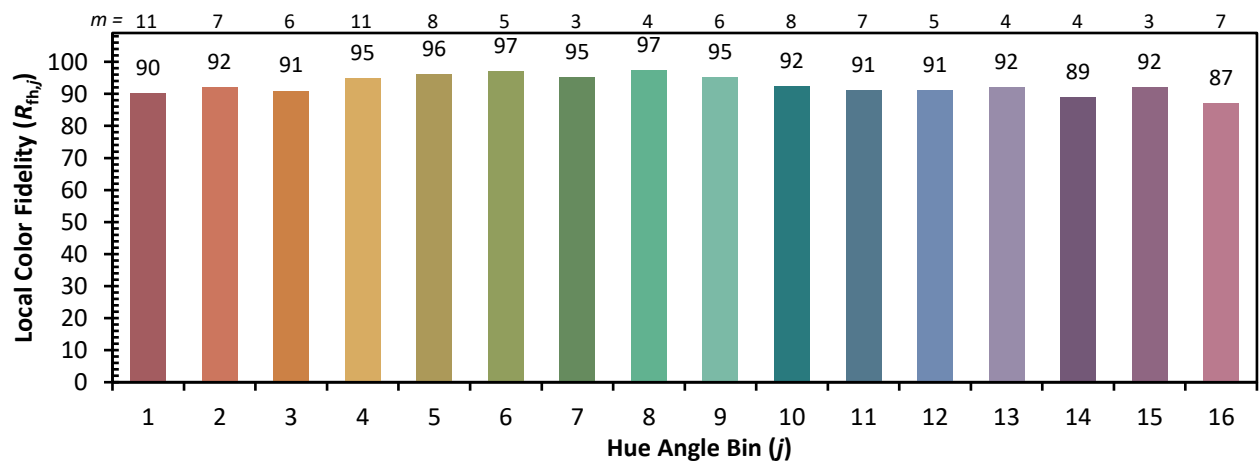
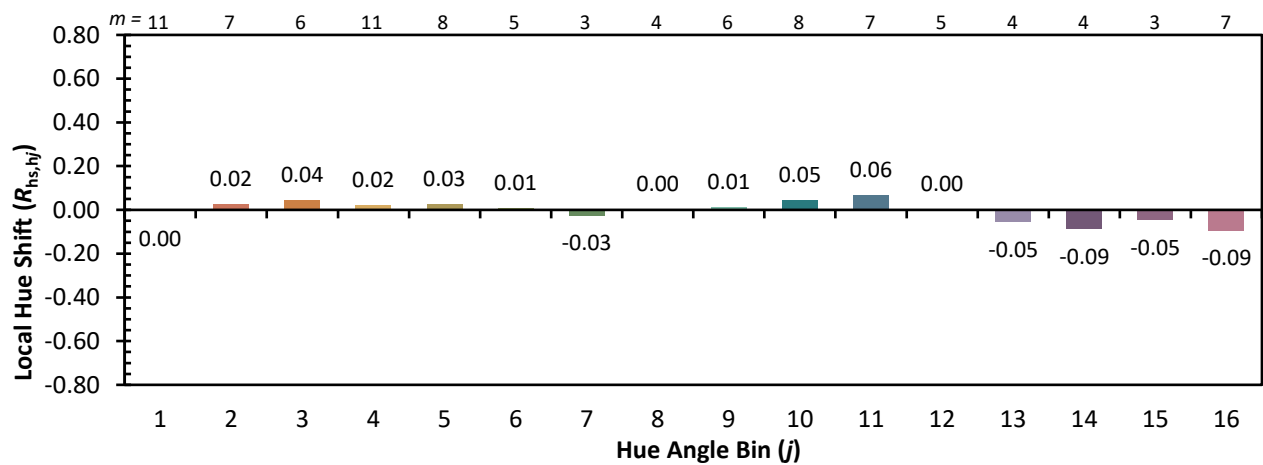
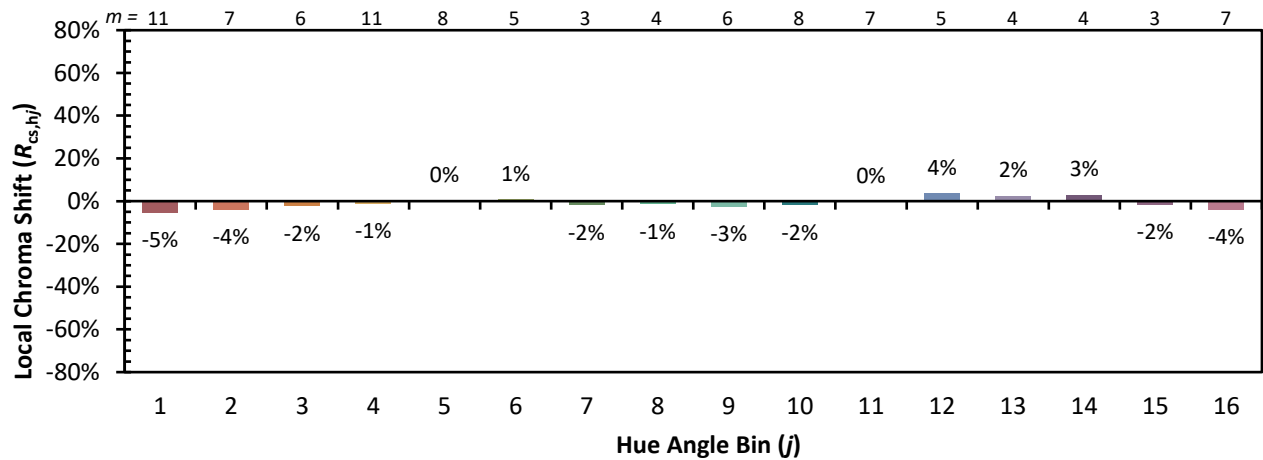


Individual Sample Fidelity Index ($R_{f,i}$)

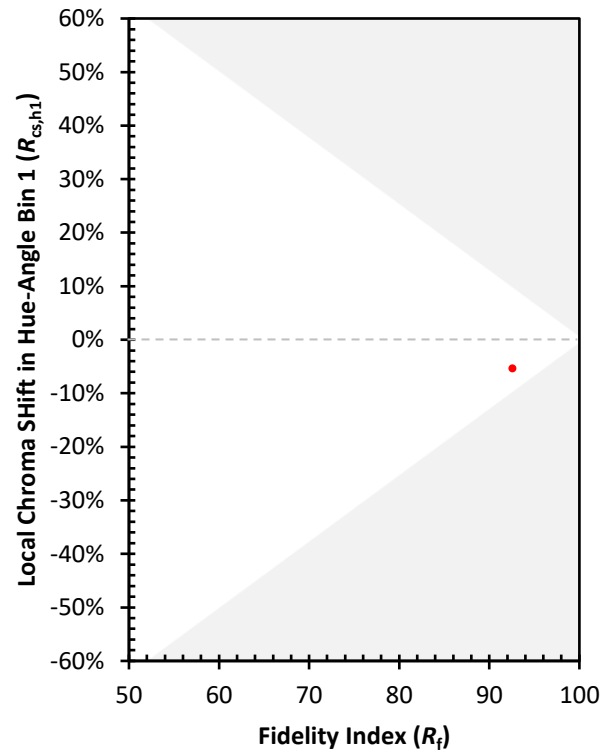
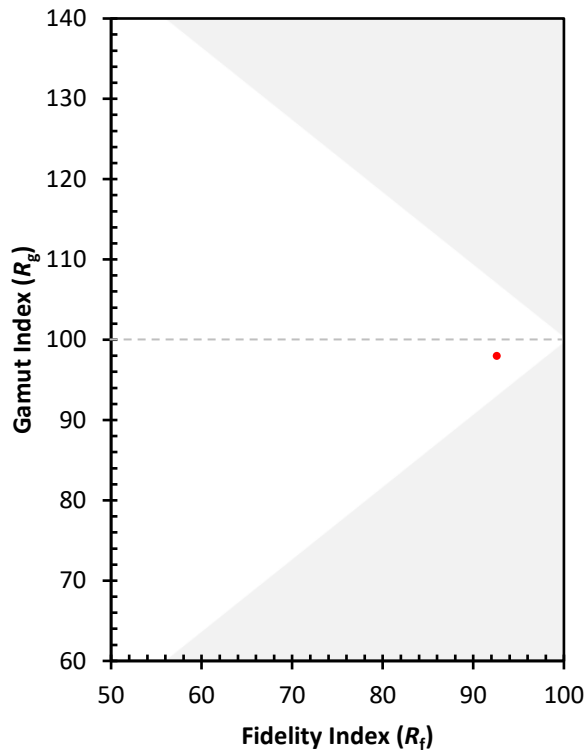
CES01 = 86	CES26 = 94	CES51 = 98	CES76 = 90
CES02 = 64	CES27 = 95	CES52 = 98	CES77 = 90
CES03 = 32	CES28 = 97	CES53 = 96	CES78 = 89
CES04 = 71	CES29 = 95	CES54 = 96	CES79 = 93
CES05 = 51	CES30 = 98	CES55 = 95	CES80 = 94
CES06 = 52	CES31 = 96	CES56 = 94	CES81 = 82
CES07 = 44	CES32 = 91	CES57 = 94	CES82 = 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)