

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: P1049861

Luminaire Tested: **GALN-SA2A-850-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049861
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-850-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 2xLight Square PACKAGE
80CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6081.6 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

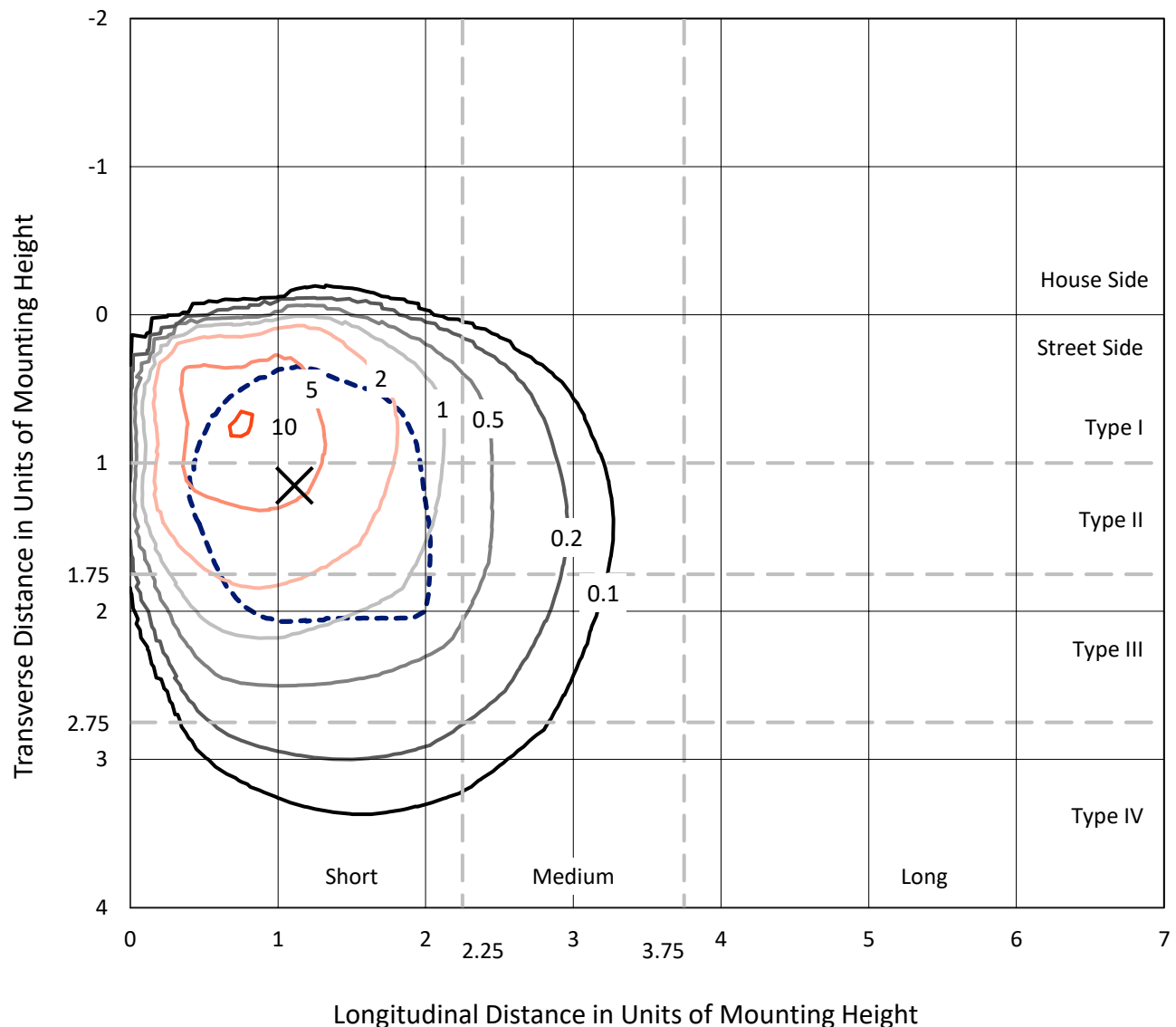
Input Watts (W): 55.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

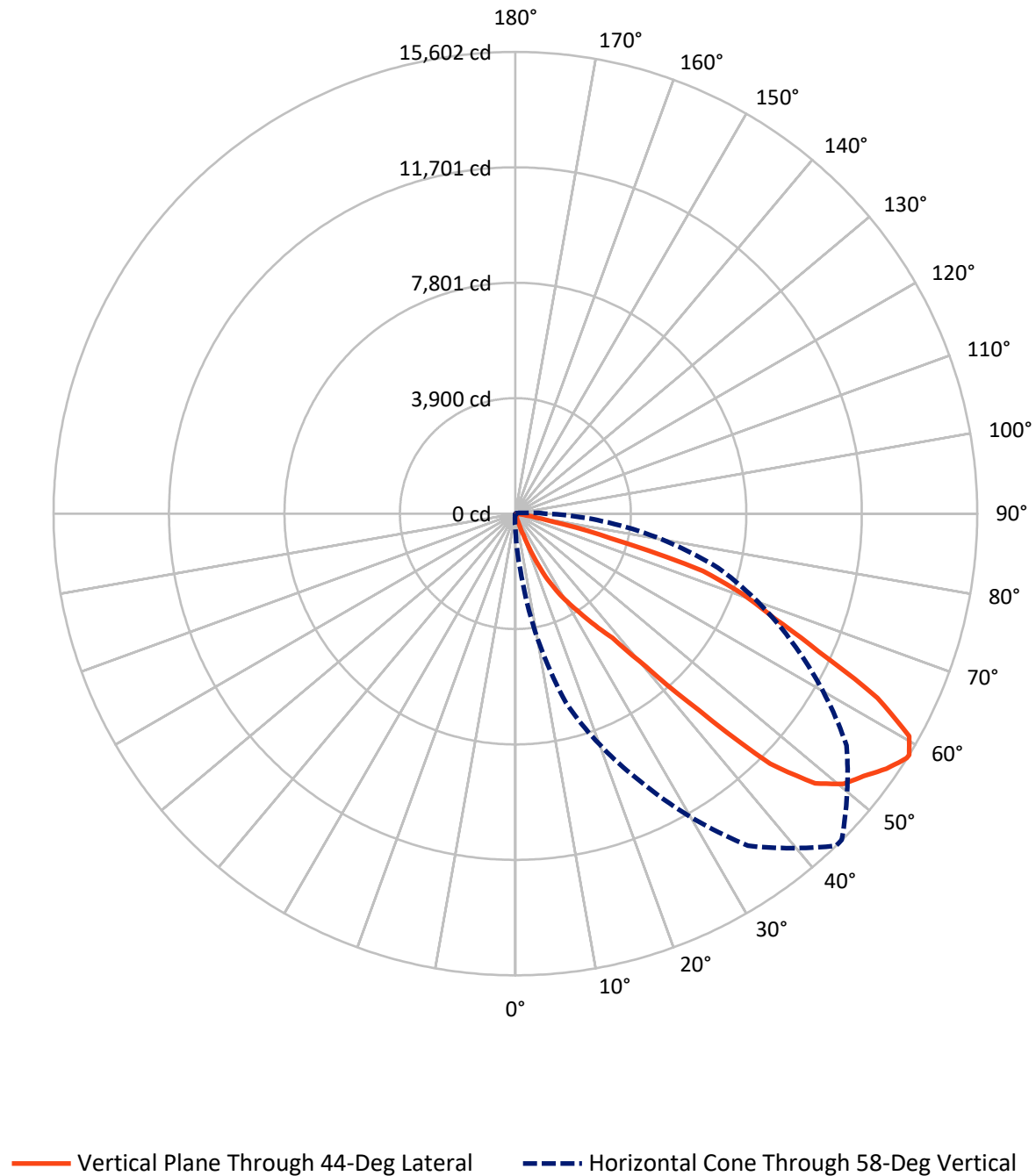
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.6 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	41.5	0.0	41.5
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	6040.0	0.0	6040.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	6081.6	0.0	6081.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.4	0.0
10°-20°	13.3	0.2
20°-30°	144.1	2.4
30°-40°	426.1	7.0
40°-50°	1269.9	20.9
50°-60°	2015.1	33.1
60°-70°	1680.8	27.6
70°-80°	518.4	8.5
80°-90°	11.5	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°	6081.6	100.0
0°-180°	6081.6	100.0

Coefficient of Utilization



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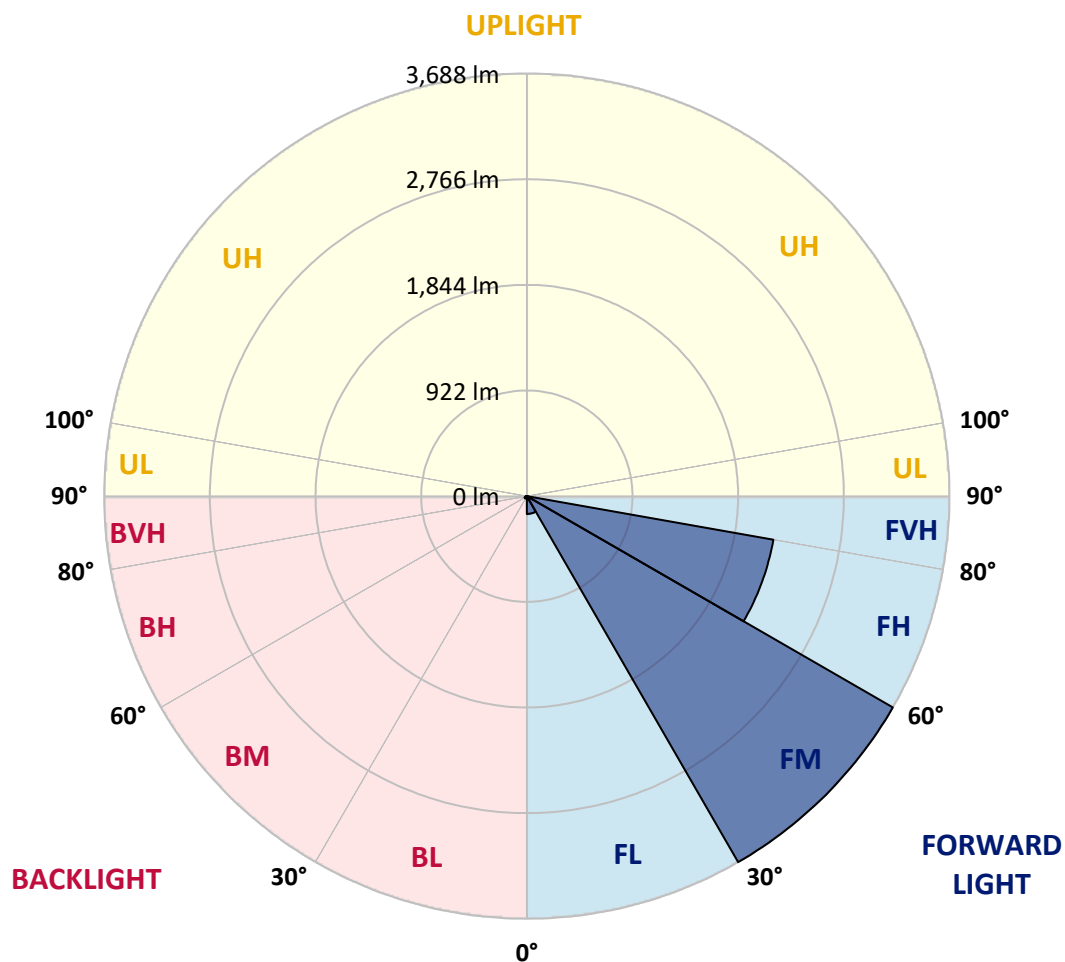
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	155.7	2.6			
FM	(30°-60°)	3688.3	60.6			
FH	(60°-80°)	2185.0	35.9			G2/5000
FVH	(80°-90°)	11.0	0.2			G1/100
BL	(0°-30°)	4.1	0.1	B0/110		
BM	(30°-60°)	22.7	0.4	B0/220		
BH	(60°-80°)	14.2	0.2	B0/110		G0/110
BVH	(80°-90°)	0.6	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°	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6
2.5°	34.5	34.5	33.1	31.2	29.4	27.6	27.1	26.2	25.7	25.3
5°	35.8	35.8	35.4	34.0	32.2	30.8	30.8	29.4	28.5	27.6
7.5°	36.8	37.2	38.1	37.7	36.8	35.4	35.4	34.5	33.1	30.8
10°	38.1	39.5	41.3	42.3	42.7	42.7	42.3	41.8	39.5	36.3
12.5°	39.5	42.3	46.9	51.5	54.2	57.9	57.4	56.5	50.5	43.6
15°	42.3	46.4	56.0	69.4	90.0	102.9	108.0	103.4	83.6	58.8
17.5°	45.5	52.4	81.3	145.2	238.0	282.1	308.7	287.1	190.2	111.6
20°	48.7	63.9	151.1	376.3	617.4	761.7	801.7	739.2	474.6	212.7
22.5°	54.2	89.6	306.4	777.8	1330.5	1546.8	1587.7	1387.9	896.3	419.9
25°	65.7	130.0	528.3	1267.5	1985.6	2350.8	2333.8	2071.9	1454.0	670.7
27.5°	82.2	189.3	798.9	1800.9	2613.1	2935.2	2973.8	2649.9	1938.3	986.4
30°	106.1	262.3	1089.3	2228.1	3116.2	3464.4	3470.8	3135.9	2371.5	1263.4
32.5°	129.1	331.2	1343.3	2641.2	3611.9	3993.7	4022.1	3610.1	2694.9	1551.9
35°	146.6	376.3	1600.6	3004.1	4111.7	4637.8	4635.9	4146.6	3078.1	1809.6
37.5°	147.9	421.3	1833.5	3375.3	4744.8	5333.8	5392.1	4852.8	3541.1	2128.5
40°	144.7	471.8	2128.5	3954.1	5885.5	6789.2	6840.6	6160.7	4470.1	2674.2
42.5°	148.4	559.6	2607.2	5023.2	7779.7	9077.5	9176.7	8461.9	6177.7	3787.8
45°	167.7	724.5	3610.1	6811.7	10479.6	12061.8	12028.8	10999.2	8164.6	5483.1
47.5°	231.5	1128.3	5096.7	8552.4	12205.2	13614.2	13642.7	12384.3	9324.2	6786.4
50°	356.0	1726.5	6345.8	9472.6	12947.1	14360.7	14334.1	12880.0	9764.8	7428.2
52.5°	463.1	2159.2	6972.5	9795.6	13042.2	14729.6	14727.8	13010.5	9833.2	7483.3
55°	489.7	2191.8	6977.5	9813.0	13255.4	15212.5	15273.1	13331.6	9921.9	7242.6
57.5°	479.2	1940.6	6686.3	9914.1	13634.9	15586.0	15589.2	13642.7	10147.0	7095.1
58°	470.0	1901.0	6627.5	9971.5	13700.1	15601.6	15593.8	13656.9	10330.3	7089.6
60°	418.5	1650.7	6398.2	10118.1	13603.2	15280.9	15207.9	13345.9	10303.2	7033.1
62.5°	328.9	1287.7	6172.6	9948.5	12564.0	13728.6	13758.9	11815.6	9392.7	6703.7
65°	261.9	959.7	5702.2	8726.5	10345.9	11273.9	11387.0	9608.1	7839.8	5676.5
67.5°	208.6	693.7	4783.4	6947.7	8186.7	9409.2	9491.4	8066.8	6073.9	4349.2
70°	169.5	469.1	3301.8	5081.1	6752.4	8127.0	8132.0	6701.4	4533.5	2849.7
72.5°	150.2	324.8	1916.7	3705.6	5475.3	6622.4	6488.7	5438.0	3484.2	1687.9
75°	130.0	215.5	940.0	2265.4	3319.7	3342.2	3393.2	2522.6	1741.6	802.6
77.5°	107.0	153.0	370.3	618.8	995.5	1274.4	1321.7	1001.5	579.3	197.5
80°	73.5	72.6	99.7	189.7	284.8	357.0	333.1	257.7	151.6	75.8
82.5°	31.7	34.5	45.0	54.2	44.1	42.7	40.9	26.2	20.2	15.6
85°	10.1	9.2	9.6	9.6	7.8	6.0	6.0	2.8	0.0	0.0
87.5°	5.1	4.1	4.1	3.7	2.3	0.9	0.5	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°
26.6	0°	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6
24.8	2.5°	24.3	24.3	23.4	22.5	22.1	21.1	20.7	20.2	19.8	19.3
26.6	5°	25.7	25.3	23.9	22.5	21.1	19.8	18.8	17.9	17.0	16.5
29.4	7.5°	28.0	27.1	24.3	22.1	20.2	18.4	17.5	16.1	15.2	13.8
32.6	10°	30.8	28.9	25.3	22.5	19.8	17.5	16.1	14.7	13.3	11.5
37.2	12.5°	34.5	31.2	26.6	22.1	18.8	16.1	14.7	12.9	11.5	10.1
43.2	15°	37.7	33.5	27.1	22.1	17.9	14.7	12.9	11.0	9.6	7.8
54.2	17.5°	42.3	35.4	26.6	20.7	16.5	12.9	11.0	9.6	7.4	4.6
80.4	20°	50.1	36.8	25.7	19.3	14.2	10.6	8.3	6.4	3.2	0.9
120.8	22.5°	62.5	40.4	24.8	17.5	12.4	8.3	5.5	2.3	0.0	0.0
183.8	25°	86.4	46.9	24.8	16.5	11.0	6.0	1.8	0.0	0.0	0.0
260.9	27.5°	114.9	55.6	24.8	14.2	8.7	3.2	0.0	0.0	0.0	0.0
355.6	30°	143.8	65.2	24.8	12.4	6.9	0.5	0.0	0.0	0.0	0.0
437.8	32.5°	171.4	73.5	25.3	10.6	4.6	0.0	0.0	0.0	0.0	0.0
551.8	35°	199.4	74.9	24.8	9.2	2.8	0.0	0.0	0.0	0.0	0.0
691.4	37.5°	235.2	72.1	23.4	8.3	1.4	0.0	0.0	0.0	0.0	0.0
909.6	40°	289.4	73.5	22.1	7.8	0.5	0.0	0.0	0.0	0.0	0.0
1298.8	42.5°	389.6	79.5	20.2	7.8	0.0	0.0	0.0	0.0	0.0	0.0
2068.7	45°	673.5	106.6	18.4	8.3	0.0	0.0	0.0	0.0	0.0	0.0
3105.6	47.5°	1114.1	191.6	17.9	8.3	0.0	0.0	0.0	0.0	0.0	0.0
3741.0	50°	1421.9	241.2	18.8	8.7	0.0	0.0	0.0	0.0	0.0	0.0
3820.5	52.5°	1419.6	268.8	19.8	9.2	1.8	0.0	0.0	0.0	0.0	0.0
3521.4	55°	1262.0	273.8	21.1	10.1	6.0	0.0	0.0	0.0	0.0	0.0
3026.1	57.5°	1054.8	249.9	24.3	12.4	11.0	0.0	0.0	0.0	0.0	0.0
2948.5	58°	1018.1	238.9	25.3	12.9	11.9	0.0	0.0	0.0	0.0	0.0
2557.5	60°	834.3	194.8	32.2	16.1	16.1	0.0	0.0	0.0	0.0	0.0
2096.8	62.5°	576.1	170.0	36.8	20.7	16.5	0.0	0.0	0.0	0.0	0.0
1545.9	65°	407.5	153.4	40.0	22.1	13.3	0.0	0.0	0.0	0.0	0.0
1098.5	67.5°	304.6	141.5	44.1	22.5	6.9	0.0	0.0	0.0	0.0	0.0
689.1	70°	233.4	132.8	54.2	23.9	1.8	0.0	0.0	0.0	0.0	0.0
410.7	72.5°	190.2	122.7	65.7	24.8	0.0	0.0	0.0	0.0	0.0	0.0
246.2	75°	157.6	110.7	63.4	27.1	0.0	0.0	0.0	0.0	0.0	0.0
131.4	77.5°	104.7	85.9	57.9	27.1	0.0	0.0	0.0	0.0	0.0	0.0
46.9	80°	36.8	34.0	45.0	23.9	0.0	0.0	0.0	0.0	0.0	0.0
9.6	82.5°	5.5	4.6	6.4	8.3	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°
26.6	0°	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6
18.8	2.5°	18.8	18.8	18.4	18.8	18.8	19.8	22.1	25.3	28.9	30.3
16.1	5°	15.6	15.2	14.7	14.7	14.7	16.1	17.9	21.6	25.7	27.6
13.3	7.5°	12.9	12.4	11.9	11.5	11.5	12.4	14.7	18.8	23.0	24.8
11.0	10°	10.6	9.6	9.2	8.7	8.7	9.6	11.9	16.1	20.7	22.5
9.2	12.5°	8.7	7.4	6.4	6.0	5.5	6.9	9.2	12.9	17.9	20.2
6.9	15°	6.0	4.6	3.2	2.8	2.3	3.7	6.0	10.1	15.2	17.9
3.7	17.5°	3.2	1.4	0.5	0.0	0.0	0.9	2.8	7.4	12.4	14.7
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	9.2	11.5
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	5.5	7.8
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	4.1
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
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	1.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.7
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°
26.6	0°	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6
31.7	2.5°	32.6	32.2	31.2	30.3	30.3	30.3	31.7	33.1	34.5	34.5
28.5	5°	30.3	30.3	29.9	28.9	28.9	29.4	31.2	33.5	35.4	35.8
26.2	7.5°	28.0	28.9	28.0	27.6	28.0	28.5	30.3	33.1	35.8	36.8
24.3	10°	26.6	27.1	27.1	26.6	26.6	27.6	29.4	33.1	36.8	38.1
22.1	12.5°	24.8	25.7	25.3	25.3	25.3	26.2	28.5	32.6	37.7	39.5
19.8	15°	23.0	24.3	24.3	23.9	23.9	24.3	27.6	32.2	39.0	42.3
17.0	17.5°	21.1	22.5	23.0	22.1	22.1	23.0	26.2	32.2	40.0	45.5
13.8	20°	17.5	19.8	21.1	19.8	19.8	20.7	23.9	30.3	40.4	48.7
10.1	22.5°	13.8	16.1	17.9	17.5	17.5	17.9	22.1	28.9	40.9	54.2
6.0	25°	10.1	12.4	13.8	14.7	14.7	16.1	20.2	28.0	42.7	65.7
2.8	27.5°	6.0	8.7	10.6	11.5	11.9	13.8	18.8	27.1	45.9	82.2
0.0	30°	2.8	5.1	7.4	9.2	9.2	12.4	17.5	26.2	50.1	106.1
0.0	32.5°	0.0	2.3	3.7	6.4	6.9	10.1	16.1	25.3	56.0	129.1
0.0	35°	0.0	0.0	1.8	5.1	5.1	8.3	14.7	24.3	65.2	146.6
0.0	37.5°	0.0	0.0	0.0	3.7	4.1	7.4	14.2	23.9	67.1	147.9
0.0	40°	0.0	0.0	0.0	2.8	3.2	6.9	14.2	24.3	60.6	144.7
0.0	42.5°	0.0	0.0	0.0	1.8	2.3	6.9	14.2	25.3	54.7	148.4
0.0	45°	0.0	0.0	0.0	1.4	1.8	7.4	13.8	24.8	51.5	167.7
0.0	47.5°	0.0	0.0	0.0	1.8	2.8	7.4	13.3	24.3	51.9	231.5
0.0	50°	0.0	0.0	0.0	2.3	3.2	7.4	13.8	23.4	57.0	356.0
0.0	52.5°	0.0	0.0	0.0	1.8	2.8	8.3	15.2	23.0	62.0	463.1
0.0	55°	0.0	0.0	0.0	0.5	1.4	10.6	16.5	23.0	69.8	489.7
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	11.9	18.8	24.3	82.7	479.2
0.0	58°	0.0	0.0	0.0	0.0	0.0	11.9	19.3	24.3	83.6	470.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	11.9	21.1	27.1	90.0	418.5
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	10.1	25.3	34.0	93.7	328.9
0.0	65°	0.0	0.0	0.0	0.0	0.0	8.3	29.9	37.2	96.5	261.9
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	7.8	30.8	37.7	97.9	208.6
0.0	70°	0.0	0.0	0.0	0.0	0.0	8.3	30.3	40.4	102.4	169.5
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	9.2	27.6	44.6	102.4	150.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	9.6	25.7	50.1	93.3	130.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	9.2	25.3	58.3	83.2	107.0
0.0	80°	0.9	1.4	1.4	0.9	0.9	7.8	24.8	59.3	70.7	73.5
0.5	82.5°	2.8	3.7	3.2	2.3	2.3	6.9	22.1	49.6	36.8	31.7
2.8	85°	5.1	6.0	6.0	5.1	5.1	6.4	13.8	17.9	12.4	10.1
5.1	87.5°	6.9	7.8	7.8	6.9	6.9	6.4	6.0	5.5	5.1	5.1
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: SP1-2407-184-12

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-850-U-5WQ

Data in this report applies to families of products including GSS-SB1A-850-U-5WQ

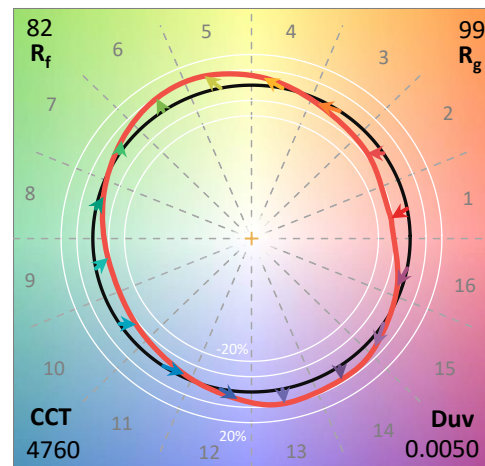
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-12
 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-850-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K): 4760
 CIE u' : 0.2107
 CIE v' : 0.4939
 Duv: 0.0050
 CIE x: 0.3537
 CIE y: 0.3685
 CIE z: 0.2779
 Peak Wavelength (nm): 443
 Dominant Wavelength (nm): 571
 Purity: 16.69598
 R_f: 82
 R_g: 99.4

CRI (Ra): 81.1
 R1: 79.8
 R2: 83.5
 R3: 87.9
 R4: 83.1
 R5: 80.5
 R6: 79.1
 R7: 86.1
 R8: 69.0
 R9: 8.7
 R10: 62.4
 R11: 83.8
 R12: 63.0
 R13: 79.9
 R14: 93.3
 R15: 72.7



Test Conditions

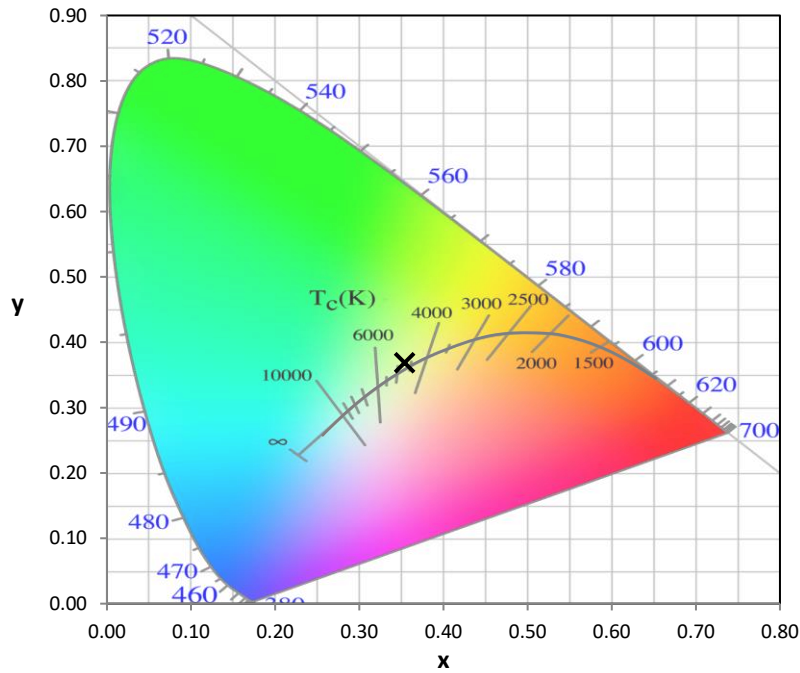
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-12

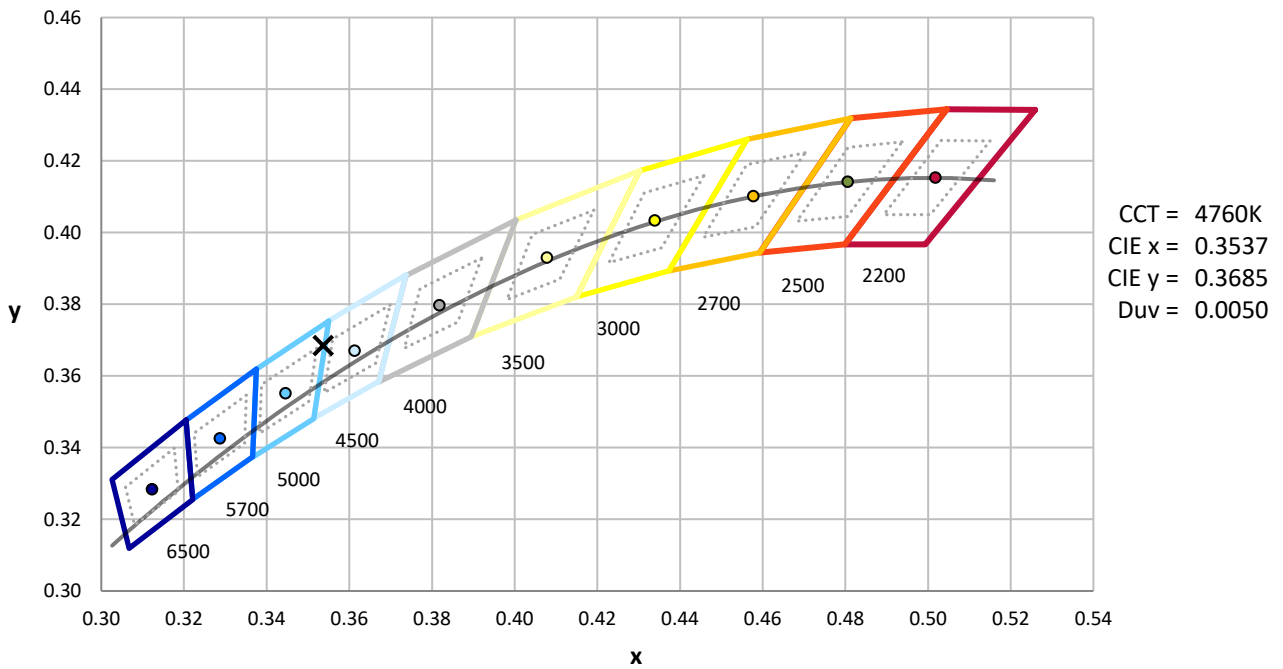
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-12

CIE 1931 Chromaticity Diagram



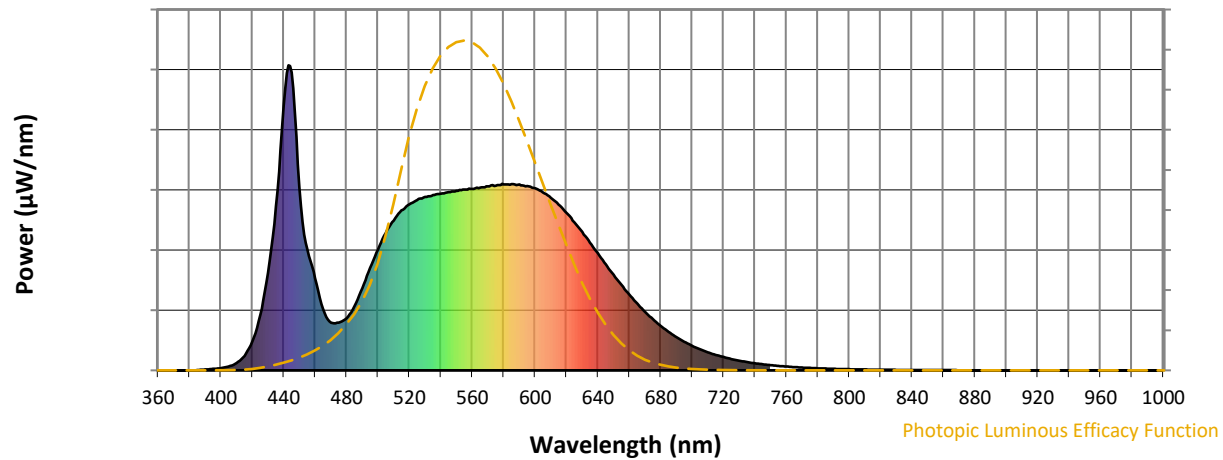
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-12

Photopic Flux vs. Wavelength

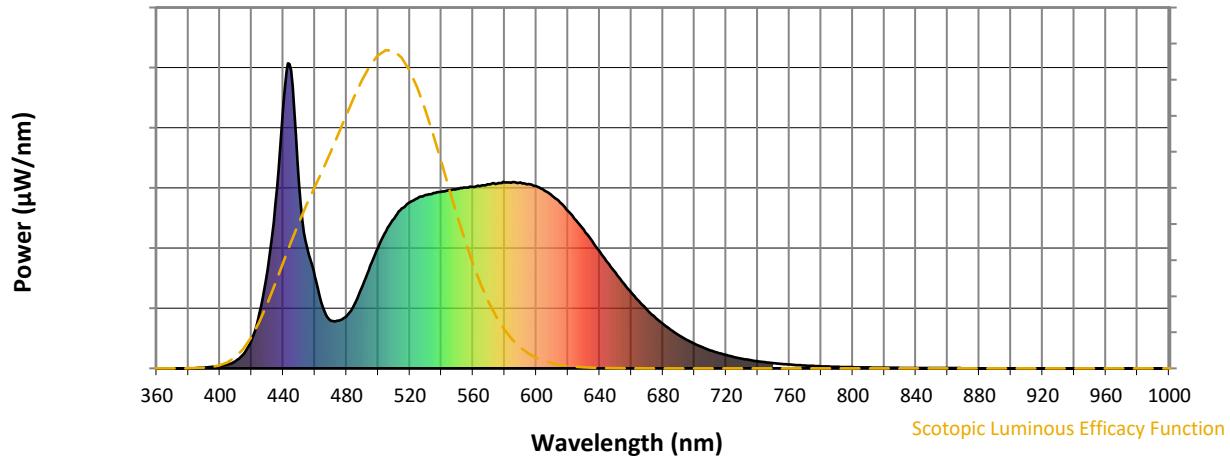


Photopic Lumens: NR

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	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-12

Scotopic Flux vs. Wavelength



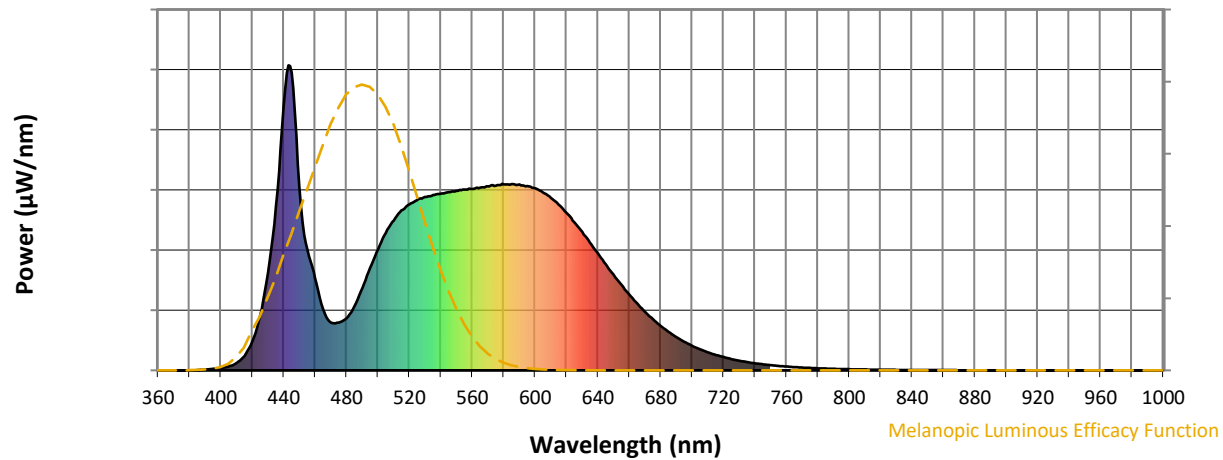
Scotopic Lumens: NR

S/P: 1.83

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	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.74

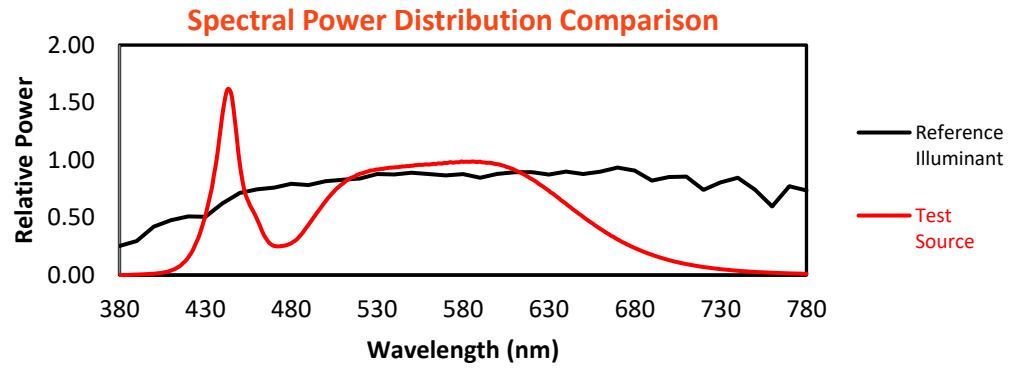
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-12

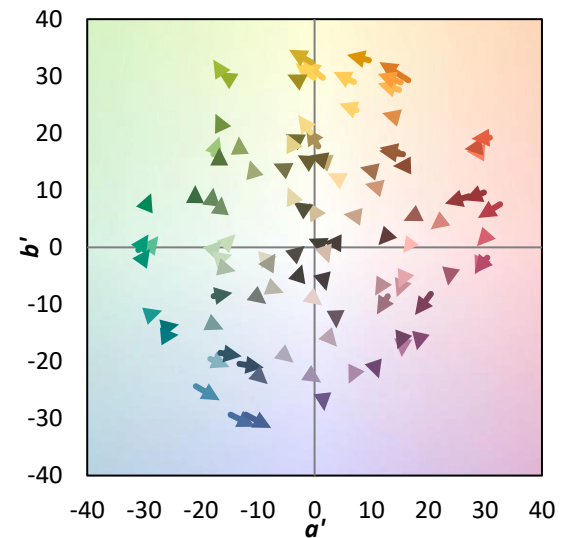
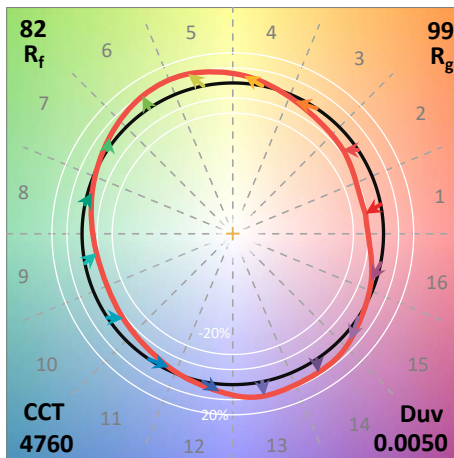
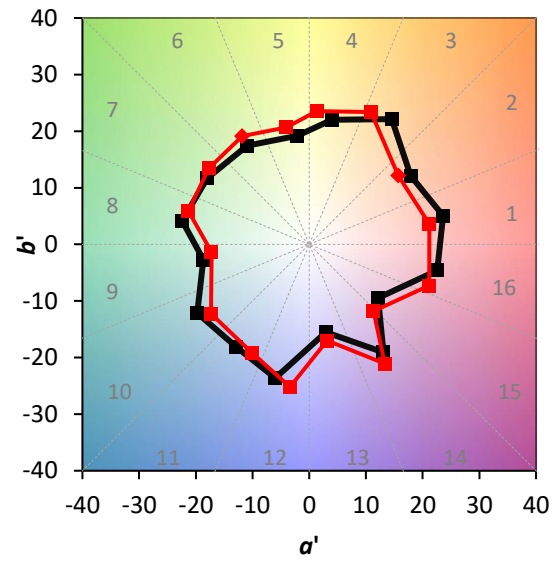
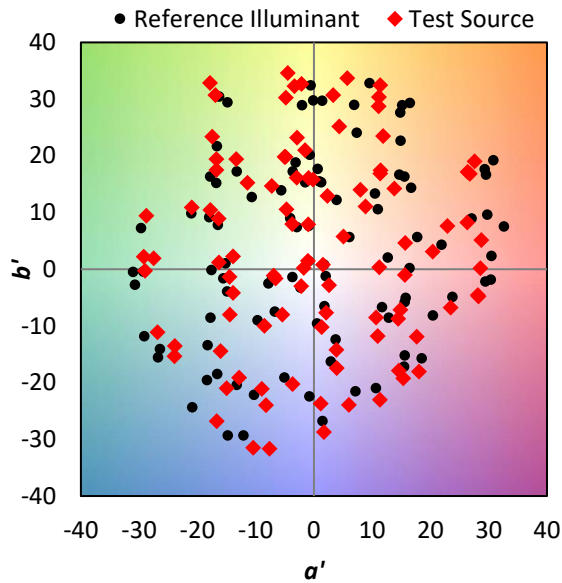
TM-30-18

Summary

$R_f = 82$
 $R_g = 99.4$
 $CIE R_a = 81.1$
 $R_9 = 8.7$

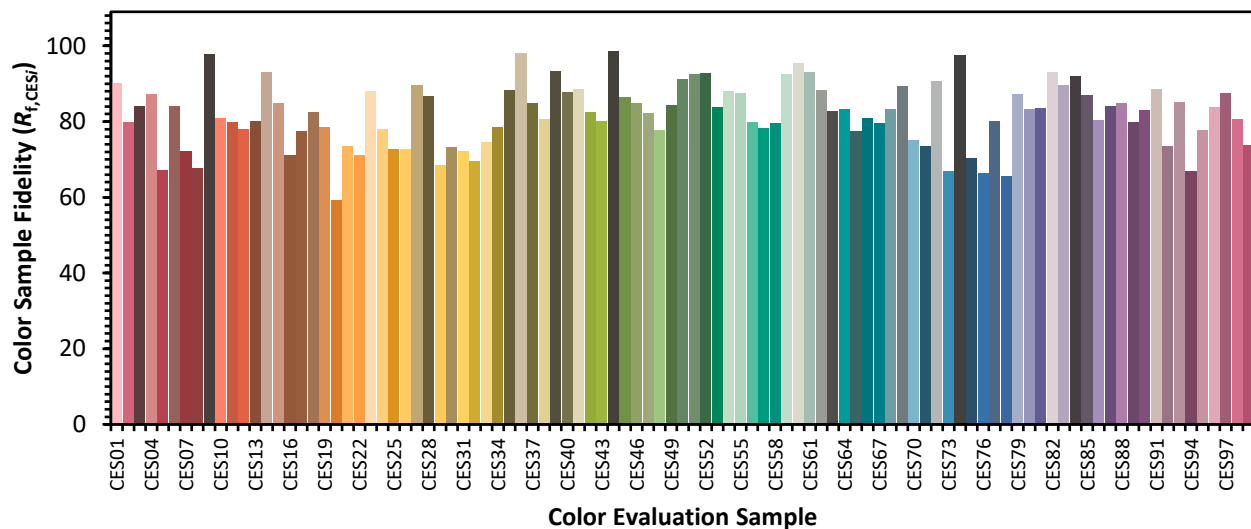


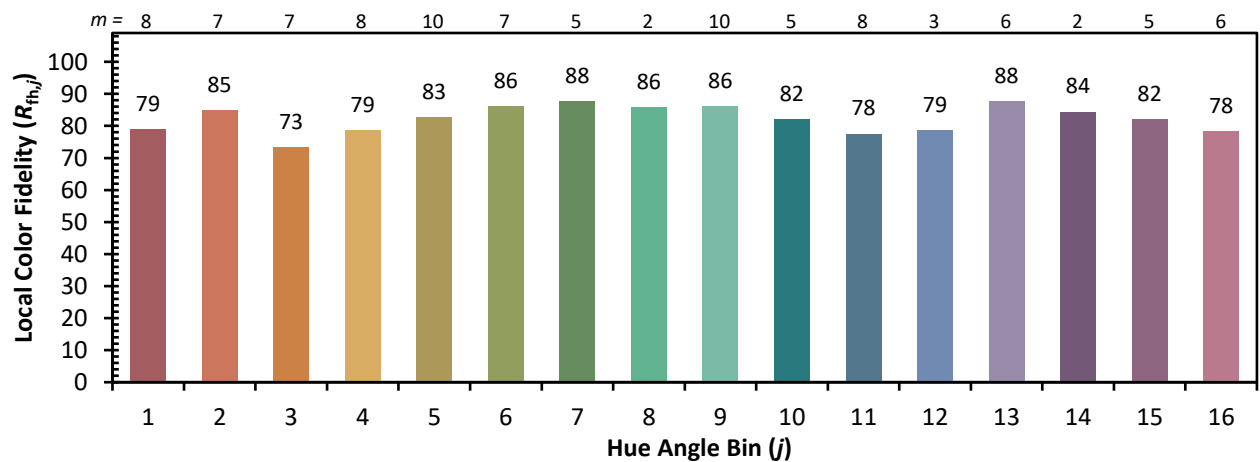
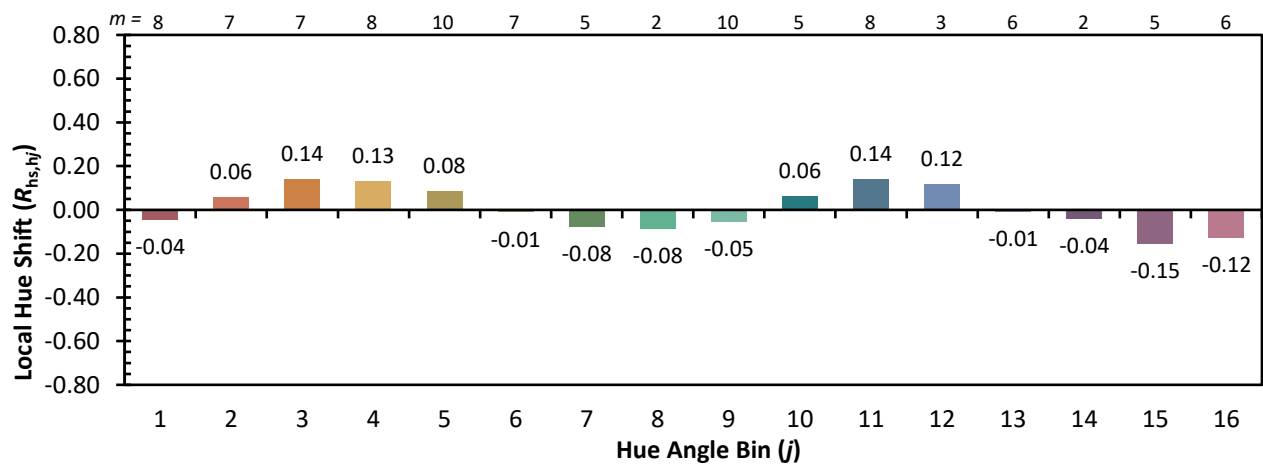
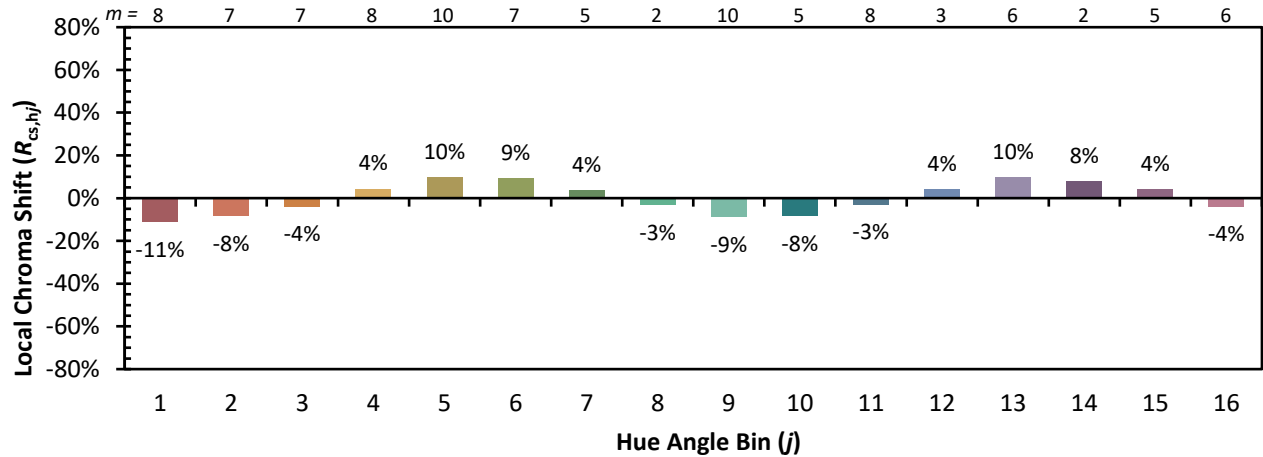
Color Vector Graphics

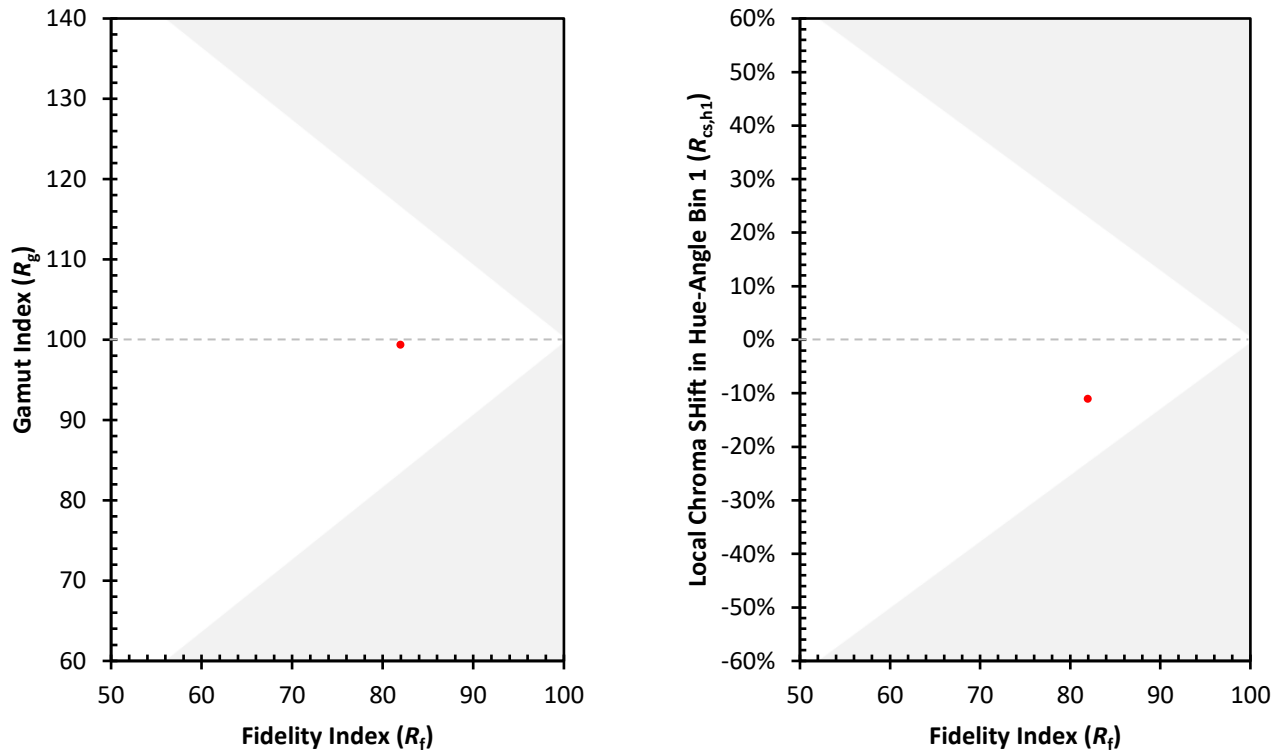


Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 73	CES51 = 92	CES76 = 66
CES02 = 60	CES27 = 90	CES52 = 93	CES77 = 80
CES03 = 30	CES28 = 87	CES53 = 84	CES78 = 65
CES04 = 69	CES29 = 69	CES54 = 88	CES79 = 87
CES05 = 47	CES30 = 73	CES55 = 88	CES80 = 83
CES06 = 50	CES31 = 72	CES56 = 80	CES81 = 84
CES07 = 40	CES32 = 69	CES57 = 78	CES82 = 93
CES08 = 39	CES33 = 75	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 78	CES59 = 93	CES84 = 92
CES10 = 73	CES35 = 88	CES60 = 95	CES85 = 87
CES11 = 56	CES36 = 98	CES61 = 93	CES86 = 80
CES12 = 62	CES37 = 85	CES62 = 88	CES87 = 84
CES13 = 42	CES38 = 81	CES63 = 83	CES88 = 85
CES14 = 74	CES39 = 93	CES64 = 83	CES89 = 80
CES15 = 71	CES40 = 88	CES65 = 77	CES90 = 83
CES16 = 46	CES41 = 89	CES66 = 81	CES91 = 89
CES17 = 48	CES42 = 82	CES67 = 80	CES92 = 73
CES18 = 55	CES43 = 80	CES68 = 83	CES93 = 85
CES19 = 70	CES44 = 99	CES69 = 89	CES94 = 67
CES20 = 64	CES45 = 87	CES70 = 75	CES95 = 78
CES21 = 85	CES46 = 85	CES71 = 73	CES96 = 84
CES22 = 77	CES47 = 82	CES72 = 91	CES97 = 87
CES23 = 91	CES48 = 78	CES73 = 67	CES98 = 81
CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 74
CES25 = 71	CES50 = 91	CES75 = 70	



Color Rendition by Hue-Angle Bin


Measure Comparisons


(END OF REPORT)