

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: STREETWORKS

Report Number: P1065529

Luminaire Tested: **GLAN-SA1A-927-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1065529
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1A-927-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 1xLight Square PACKAGE
90CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2079.6 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

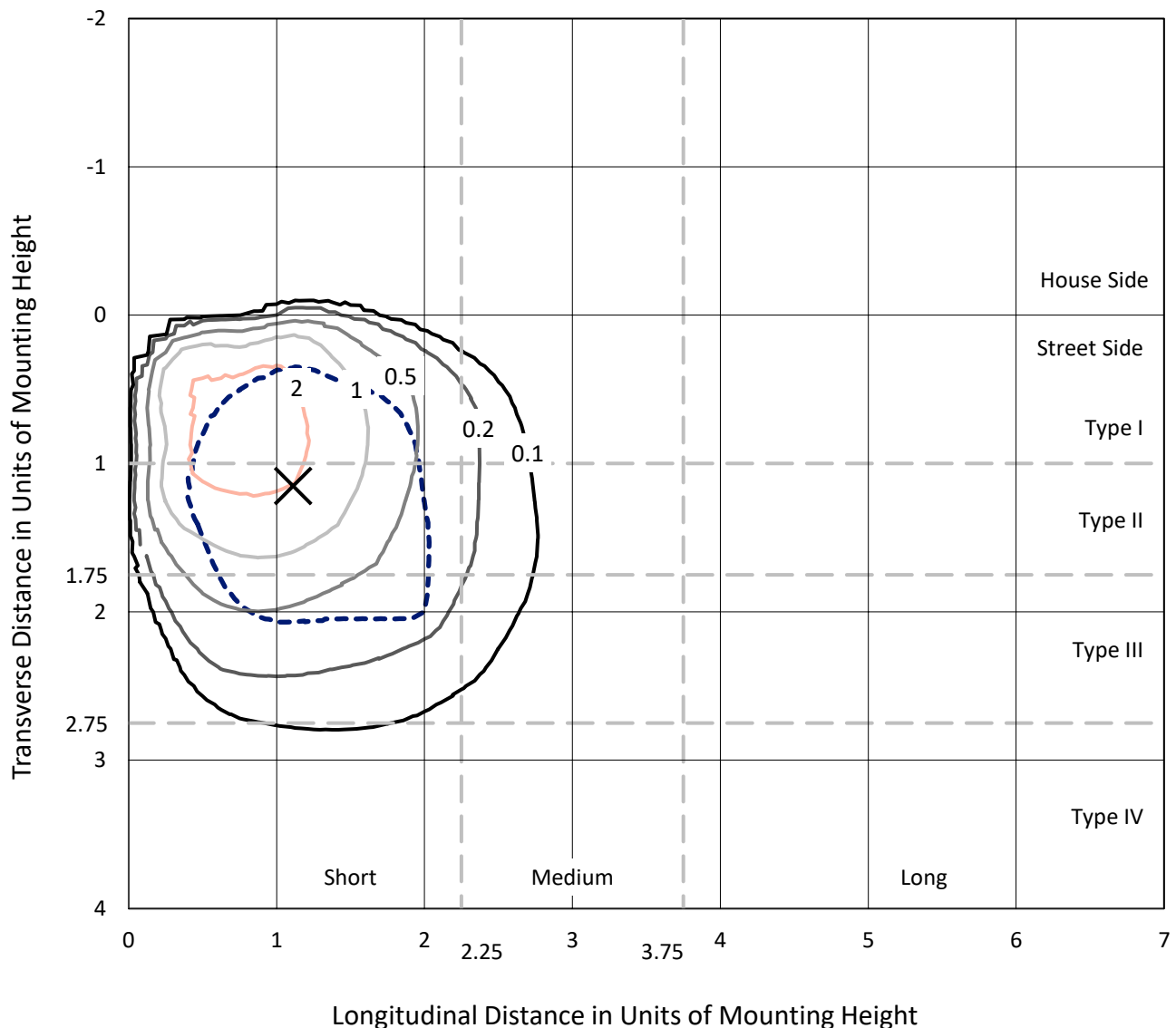
Input Watts (W): 29
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

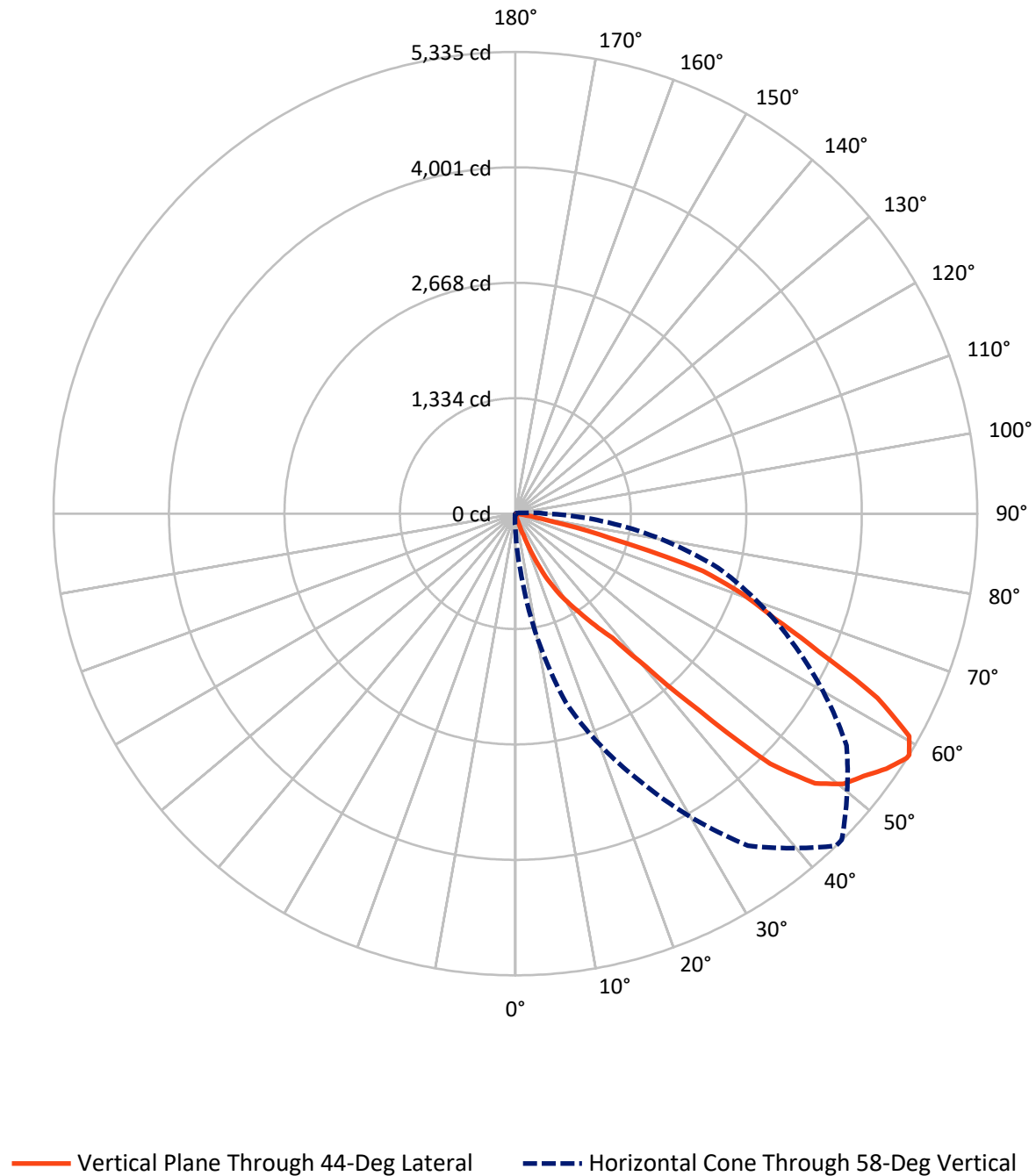
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.6 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	14.2	0.0	14.2
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	2065.4	0.0	2065.4
	% Fixture	99.3	0.0	99.3
Total	Lumens	2079.6	0.0	2079.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.8	0.0
10°-20°	4.6	0.2
20°-30°	49.3	2.4
30°-40°	145.7	7.0
40°-50°	434.3	20.9
50°-60°	689.1	33.1
60°-70°	574.8	27.6
70°-80°	177.3	8.5
80°-90°	3.9	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°	2079.6	100.0
0°-180°	2079.6	100.0



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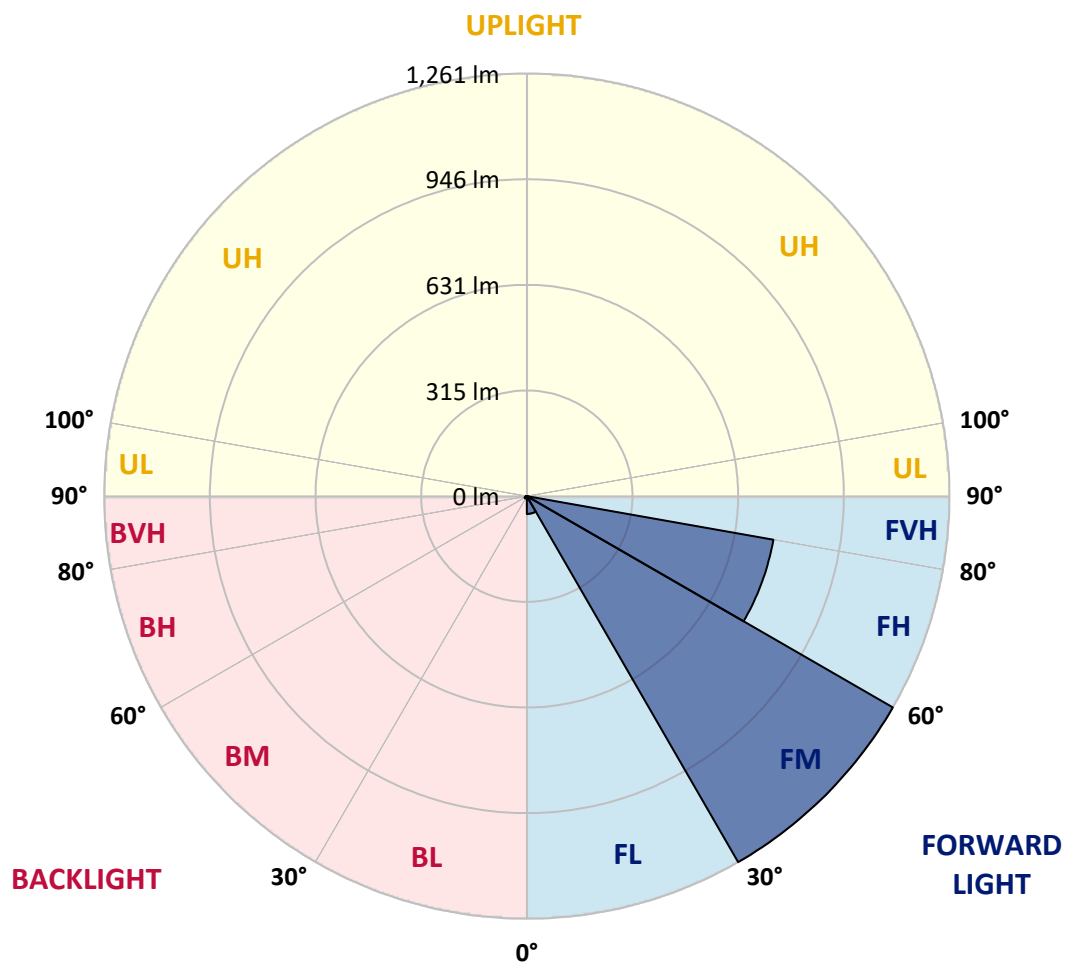
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	53.3	2.6			
FM	(30°-60°)	1261.2	60.6			
FH	(60°-80°)	747.2	35.9			G1/1800
FVH	(80°-90°)	3.7	0.2			G0/10
BL	(0°-30°)	1.4	0.1	B0/110		
BM	(30°-60°)	7.8	0.4	B0/220		
BH	(60°-80°)	4.9	0.2	B0/110		G0/110
BVH	(80°-90°)	0.2	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
2.5°	11.8	11.8	11.3	10.7	10.1	9.4	9.3	9.0	8.8	8.6
5°	12.3	12.3	12.1	11.6	11.0	10.5	10.5	10.1	9.7	9.4
7.5°	12.6	12.7	13.0	12.9	12.6	12.1	12.1	11.8	11.3	10.5
10°	13.0	13.5	14.1	14.5	14.6	14.6	14.5	14.3	13.5	12.4
12.5°	13.5	14.5	16.0	17.6	18.5	19.8	19.6	19.3	17.3	14.9
15°	14.5	15.9	19.2	23.7	30.8	35.2	36.9	35.3	28.6	20.1
17.5°	15.6	17.9	27.8	49.6	81.4	96.5	105.6	98.2	65.0	38.2
20°	16.7	21.8	51.7	128.7	211.1	260.5	274.1	252.8	162.3	72.7
22.5°	18.5	30.6	104.8	266.0	454.9	528.9	542.9	474.6	306.5	143.6
25°	22.5	44.5	180.7	433.4	679.0	803.9	798.0	708.5	497.2	229.4
27.5°	28.1	64.7	273.2	615.8	893.6	1003.7	1016.9	906.1	662.8	337.3
30°	36.3	89.7	372.5	761.9	1065.6	1184.7	1186.9	1072.3	810.9	432.0
32.5°	44.1	113.3	459.3	903.1	1235.1	1365.6	1375.4	1234.5	921.5	530.7
35°	50.1	128.7	547.3	1027.2	1406.0	1585.9	1585.3	1417.9	1052.5	618.8
37.5°	50.6	144.1	627.0	1154.2	1622.5	1823.9	1843.8	1659.4	1210.9	727.8
40°	49.5	161.3	727.8	1352.1	2012.6	2321.6	2339.2	2106.7	1528.5	914.5
42.5°	50.7	191.3	891.5	1717.7	2660.3	3104.1	3138.0	2893.5	2112.5	1295.3
45°	57.3	247.7	1234.5	2329.3	3583.5	4124.5	4113.2	3761.2	2791.9	1874.9
47.5°	79.2	385.8	1742.8	2924.5	4173.6	4655.4	4665.1	4234.8	3188.4	2320.6
50°	121.7	590.4	2170.0	3239.2	4427.3	4910.7	4901.5	4404.3	3339.1	2540.1
52.5°	158.4	738.3	2384.2	3349.6	4459.8	5036.8	5036.2	4448.9	3362.5	2558.9
55°	167.5	749.5	2386.0	3355.6	4532.7	5201.9	5222.6	4558.8	3392.8	2476.6
57.5°	163.9	663.6	2286.4	3390.1	4662.4	5329.6	5330.7	4665.1	3469.8	2426.2
58°	160.7	650.1	2266.3	3409.8	4684.8	5335.0	5332.3	4670.0	3532.5	2424.3
60°	143.1	564.4	2187.9	3459.9	4651.6	5225.3	5200.3	4563.6	3523.2	2405.0
62.5°	112.5	440.3	2110.7	3401.9	4296.3	4694.5	4704.9	4040.3	3211.8	2292.3
65°	89.5	328.2	1949.9	2984.0	3537.8	3855.1	3893.8	3285.5	2680.8	1941.1
67.5°	71.3	237.2	1635.7	2375.8	2799.4	3217.5	3245.6	2758.4	2077.0	1487.2
70°	58.0	160.4	1129.0	1737.5	2309.0	2779.0	2780.8	2291.6	1550.2	974.5
72.5°	51.4	111.1	655.4	1267.1	1872.3	2264.5	2218.8	1859.5	1191.4	577.2
75°	44.5	73.7	321.4	774.6	1135.2	1142.9	1160.3	862.6	595.5	274.4
77.5°	36.6	52.3	126.6	211.6	340.4	435.8	452.0	342.5	198.1	67.6
80°	25.1	24.8	34.1	64.9	97.4	122.1	113.9	88.1	51.8	25.9
82.5°	10.8	11.8	15.4	18.5	15.1	14.6	14.0	9.0	6.9	5.3
85°	3.5	3.1	3.3	3.3	2.7	2.0	2.0	0.9	0.0	0.0
87.5°	1.7	1.4	1.4	1.3	0.8	0.3	0.2	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°
9.1	0°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
8.5	2.5°	8.3	8.3	8.0	7.7	7.5	7.2	7.1	6.9	6.8	6.6
9.1	5°	8.8	8.6	8.2	7.7	7.2	6.8	6.4	6.1	5.8	5.7
10.1	7.5°	9.6	9.3	8.3	7.5	6.9	6.3	6.0	5.5	5.2	4.7
11.2	10°	10.5	9.9	8.6	7.7	6.8	6.0	5.5	5.0	4.6	3.9
12.7	12.5°	11.8	10.7	9.1	7.5	6.4	5.5	5.0	4.4	3.9	3.5
14.8	15°	12.9	11.5	9.3	7.5	6.1	5.0	4.4	3.8	3.3	2.7
18.5	17.5°	14.5	12.1	9.1	7.1	5.7	4.4	3.8	3.3	2.5	1.6
27.5	20°	17.1	12.6	8.8	6.6	4.9	3.6	2.8	2.2	1.1	0.3
41.3	22.5°	21.4	13.8	8.5	6.0	4.2	2.8	1.9	0.8	0.0	0.0
62.8	25°	29.5	16.0	8.5	5.7	3.8	2.0	0.6	0.0	0.0	0.0
89.2	27.5°	39.3	19.0	8.5	4.9	3.0	1.1	0.0	0.0	0.0	0.0
121.6	30°	49.2	22.3	8.5	4.2	2.4	0.2	0.0	0.0	0.0	0.0
149.7	32.5°	58.6	25.1	8.6	3.6	1.6	0.0	0.0	0.0	0.0	0.0
188.7	35°	68.2	25.6	8.5	3.1	0.9	0.0	0.0	0.0	0.0	0.0
236.4	37.5°	80.4	24.7	8.0	2.8	0.5	0.0	0.0	0.0	0.0	0.0
311.0	40°	99.0	25.1	7.5	2.7	0.2	0.0	0.0	0.0	0.0	0.0
444.1	42.5°	133.2	27.2	6.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0
707.4	45°	230.3	36.4	6.3	2.8	0.0	0.0	0.0	0.0	0.0	0.0
1062.0	47.5°	381.0	65.5	6.1	2.8	0.0	0.0	0.0	0.0	0.0	0.0
1279.2	50°	486.2	82.5	6.4	3.0	0.0	0.0	0.0	0.0	0.0	0.0
1306.4	52.5°	485.4	91.9	6.8	3.1	0.6	0.0	0.0	0.0	0.0	0.0
1204.1	55°	431.5	93.6	7.2	3.5	2.0	0.0	0.0	0.0	0.0	0.0
1034.8	57.5°	360.7	85.5	8.3	4.2	3.8	0.0	0.0	0.0	0.0	0.0
1008.2	58°	348.1	81.7	8.6	4.4	4.1	0.0	0.0	0.0	0.0	0.0
874.6	60°	285.3	66.6	11.0	5.5	5.5	0.0	0.0	0.0	0.0	0.0
717.0	62.5°	197.0	58.1	12.6	7.1	5.7	0.0	0.0	0.0	0.0	0.0
528.6	65°	139.3	52.5	13.7	7.5	4.6	0.0	0.0	0.0	0.0	0.0
375.6	67.5°	104.2	48.4	15.1	7.7	2.4	0.0	0.0	0.0	0.0	0.0
235.6	70°	79.8	45.4	18.5	8.2	0.6	0.0	0.0	0.0	0.0	0.0
140.4	72.5°	65.0	41.9	22.5	8.5	0.0	0.0	0.0	0.0	0.0	0.0
84.2	75°	53.9	37.9	21.7	9.3	0.0	0.0	0.0	0.0	0.0	0.0
44.9	77.5°	35.8	29.4	19.8	9.3	0.0	0.0	0.0	0.0	0.0	0.0
16.0	80°	12.6	11.6	15.4	8.2	0.0	0.0	0.0	0.0	0.0	0.0
3.3	82.5°	1.9	1.6	2.2	2.8	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°
9.1	0°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
6.4	2.5°	6.4	6.4	6.3	6.4	6.4	6.8	7.5	8.6	9.9	10.4
5.5	5°	5.3	5.2	5.0	5.0	5.0	5.5	6.1	7.4	8.8	9.4
4.6	7.5°	4.4	4.2	4.1	3.9	3.9	4.2	5.0	6.4	7.9	8.5
3.8	10°	3.6	3.3	3.1	3.0	3.0	3.3	4.1	5.5	7.1	7.7
3.1	12.5°	3.0	2.5	2.2	2.0	1.9	2.4	3.1	4.4	6.1	6.9
2.4	15°	2.0	1.6	1.1	0.9	0.8	1.3	2.0	3.5	5.2	6.1
1.3	17.5°	1.1	0.5	0.2	0.0	0.0	0.3	0.9	2.5	4.2	5.0
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.1	3.9
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.9	2.7
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.4
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
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	0.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.3
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°
9.1	0°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
10.8	2.5°	11.2	11.0	10.7	10.4	10.4	10.4	10.8	11.3	11.8	11.8
9.7	5°	10.4	10.4	10.2	9.9	9.9	10.1	10.7	11.5	12.1	12.3
9.0	7.5°	9.6	9.9	9.6	9.4	9.6	9.7	10.4	11.3	12.3	12.6
8.3	10°	9.1	9.3	9.3	9.1	9.1	9.4	10.1	11.3	12.6	13.0
7.5	12.5°	8.5	8.8	8.6	8.6	8.6	9.0	9.7	11.2	12.9	13.5
6.8	15°	7.9	8.3	8.3	8.2	8.2	8.3	9.4	11.0	13.4	14.5
5.8	17.5°	7.2	7.7	7.9	7.5	7.5	7.9	9.0	11.0	13.7	15.6
4.7	20°	6.0	6.8	7.2	6.8	6.8	7.1	8.2	10.4	13.8	16.7
3.5	22.5°	4.7	5.5	6.1	6.0	6.0	6.1	7.5	9.9	14.0	18.5
2.0	25°	3.5	4.2	4.7	5.0	5.0	5.5	6.9	9.6	14.6	22.5
0.9	27.5°	2.0	3.0	3.6	3.9	4.1	4.7	6.4	9.3	15.7	28.1
0.0	30°	0.9	1.7	2.5	3.1	3.1	4.2	6.0	9.0	17.1	36.3
0.0	32.5°	0.0	0.8	1.3	2.2	2.4	3.5	5.5	8.6	19.2	44.1
0.0	35°	0.0	0.0	0.6	1.7	1.7	2.8	5.0	8.3	22.3	50.1
0.0	37.5°	0.0	0.0	0.0	1.3	1.4	2.5	4.9	8.2	22.9	50.6
0.0	40°	0.0	0.0	0.0	0.9	1.1	2.4	4.9	8.3	20.7	49.5
0.0	42.5°	0.0	0.0	0.0	0.6	0.8	2.4	4.9	8.6	18.7	50.7
0.0	45°	0.0	0.0	0.0	0.5	0.6	2.5	4.7	8.5	17.6	57.3
0.0	47.5°	0.0	0.0	0.0	0.6	0.9	2.5	4.6	8.3	17.8	79.2
0.0	50°	0.0	0.0	0.0	0.8	1.1	2.5	4.7	8.0	19.5	121.7
0.0	52.5°	0.0	0.0	0.0	0.6	0.9	2.8	5.2	7.9	21.2	158.4
0.0	55°	0.0	0.0	0.0	0.2	0.5	3.6	5.7	7.9	23.9	167.5
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	4.1	6.4	8.3	28.3	163.9
0.0	58°	0.0	0.0	0.0	0.0	0.0	4.1	6.6	8.3	28.6	160.7
0.0	60°	0.0	0.0	0.0	0.0	0.0	4.1	7.2	9.3	30.8	143.1
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	3.5	8.6	11.6	32.0	112.5
0.0	65°	0.0	0.0	0.0	0.0	0.0	2.8	10.2	12.7	33.0	89.5
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	2.7	10.5	12.9	33.5	71.3
0.0	70°	0.0	0.0	0.0	0.0	0.0	2.8	10.4	13.8	35.0	58.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	3.1	9.4	15.2	35.0	51.4
0.0	75°	0.0	0.0	0.0	0.0	0.0	3.3	8.8	17.1	31.9	44.5
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	3.1	8.6	20.0	28.4	36.6
0.0	80°	0.3	0.5	0.5	0.3	0.3	2.7	8.5	20.3	24.2	25.1
0.2	82.5°	0.9	1.3	1.1	0.8	0.8	2.4	7.5	17.0	12.6	10.8
0.9	85°	1.7	2.0	2.0	1.7	1.7	2.2	4.7	6.1	4.2	3.5
1.7	87.5°	2.4	2.7	2.7	2.4	2.4	2.2	2.0	1.9	1.7	1.7
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

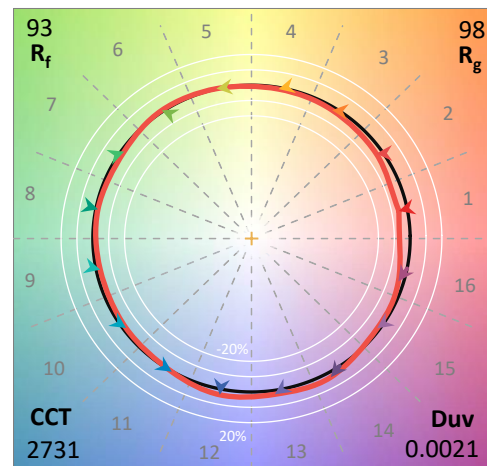
Test Information

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

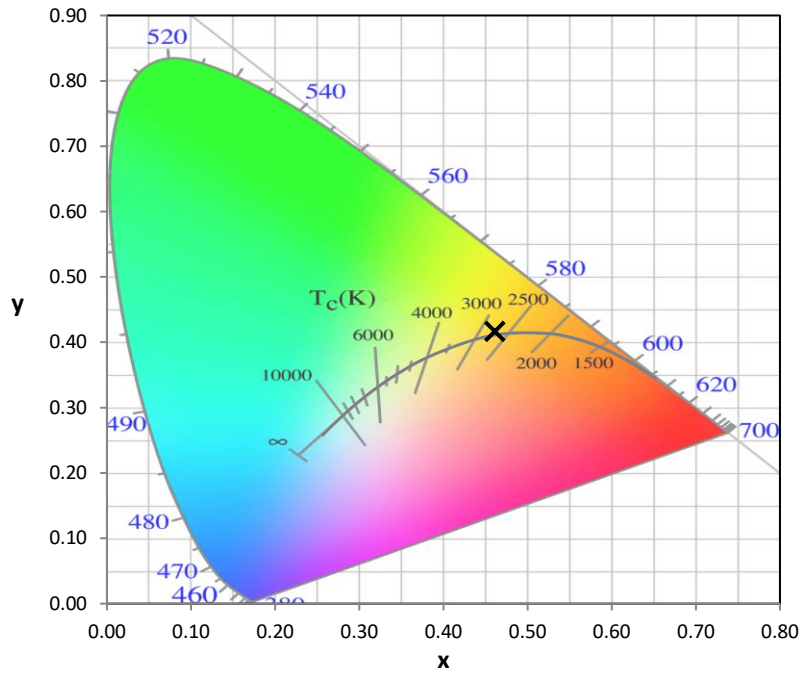
Stabilization Time: M
 Operation Time: 1H 0M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-13

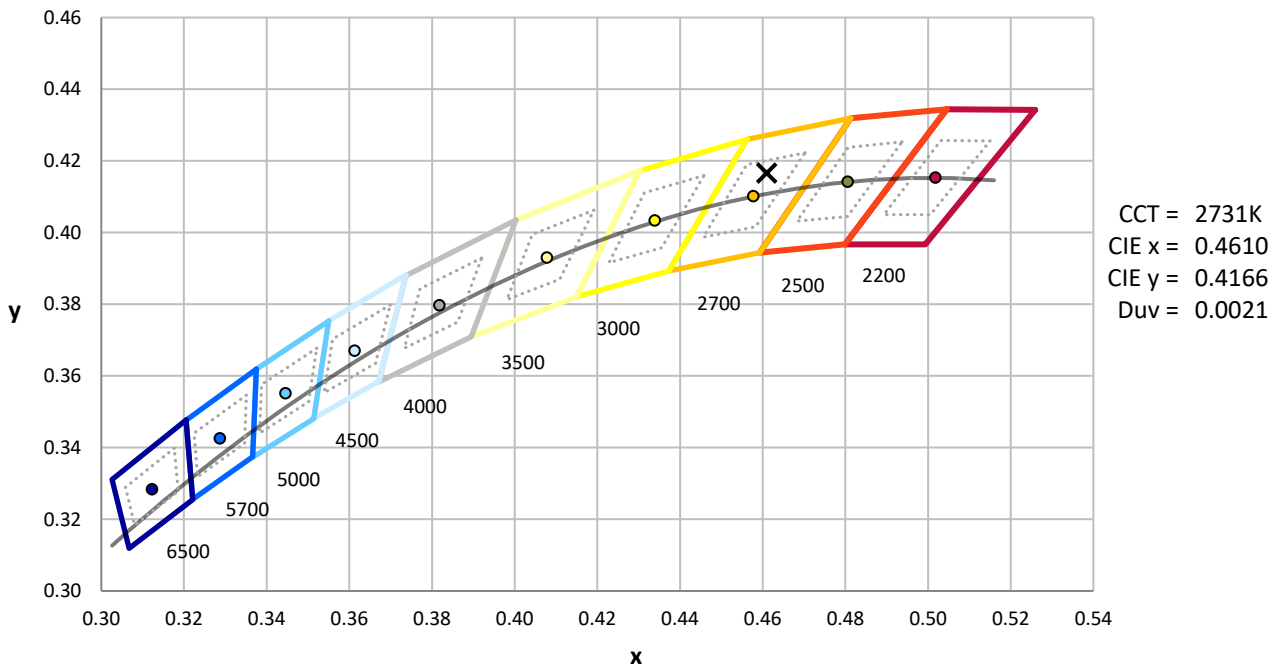
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

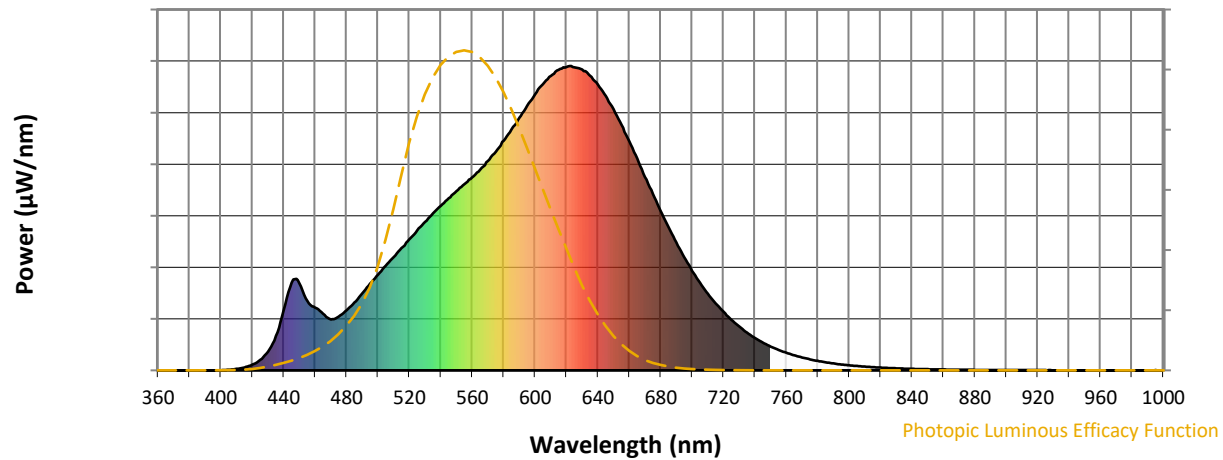


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



REPORT NUMBER: SP1-2407-184-13

Photopic Flux vs. Wavelength

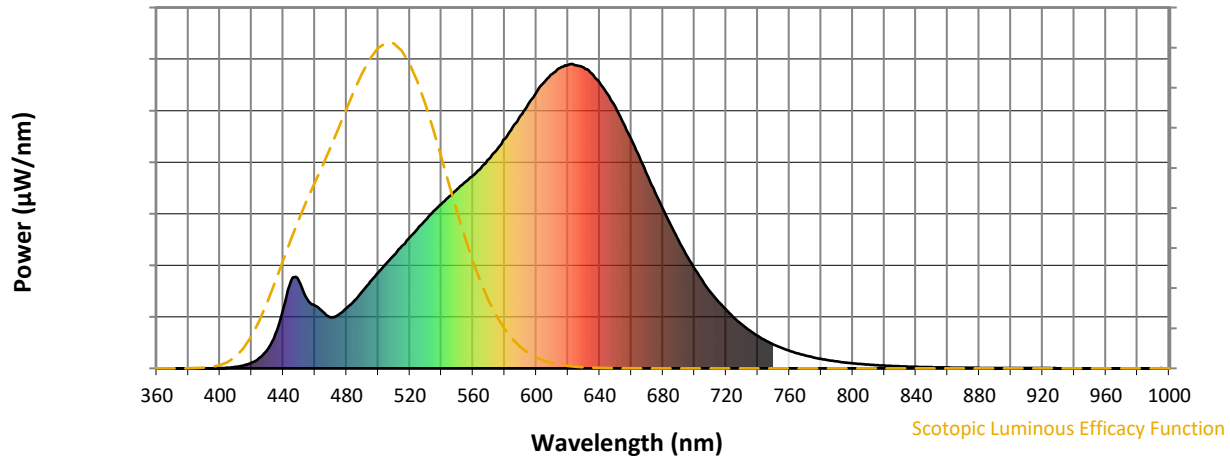


Photopic Lumens: NR

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



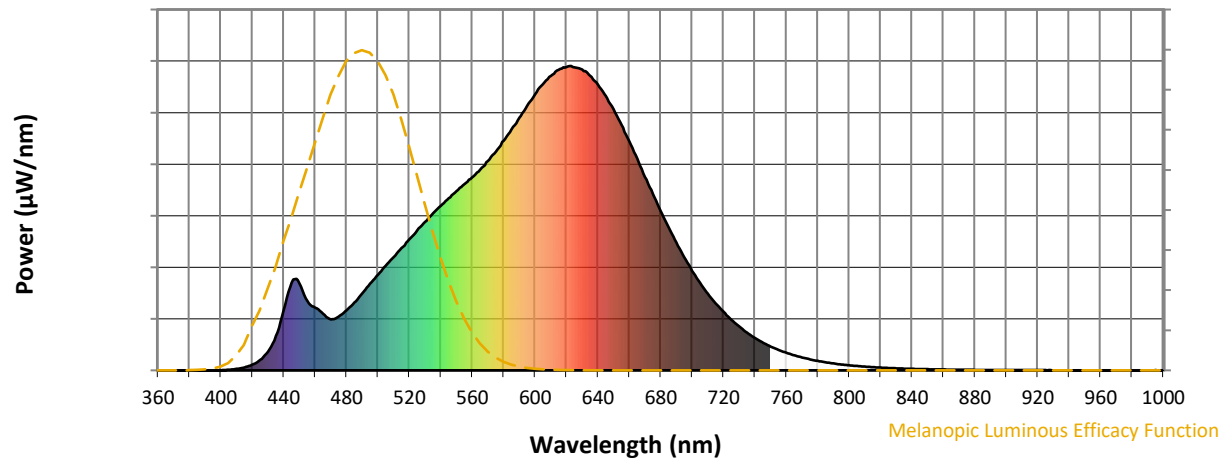
Scotopic Lumens: NR

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

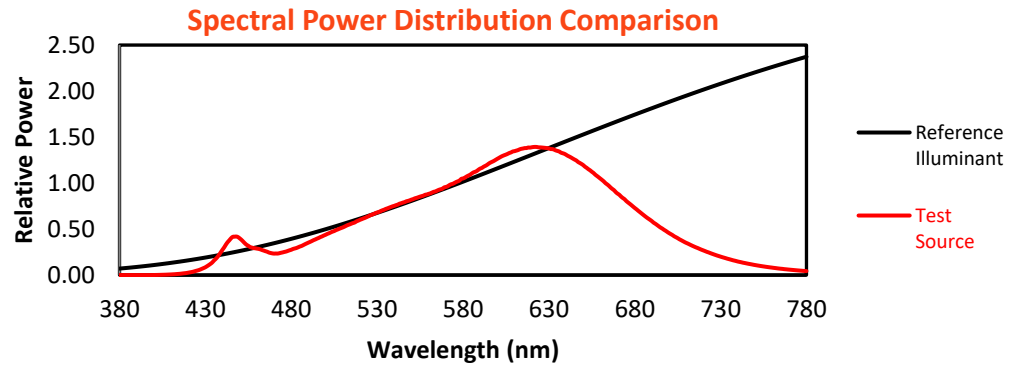
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	253	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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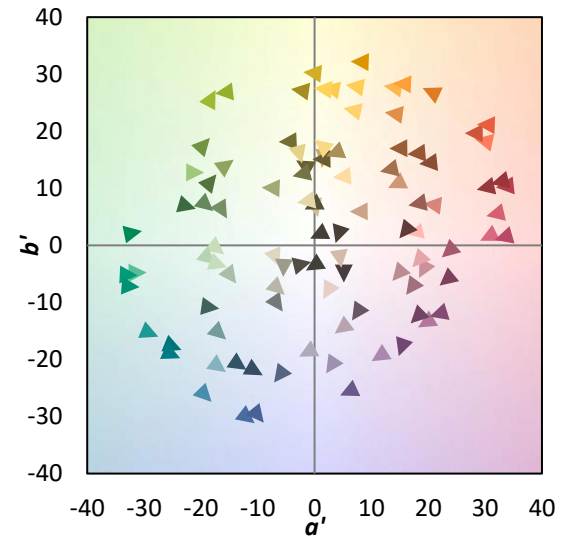
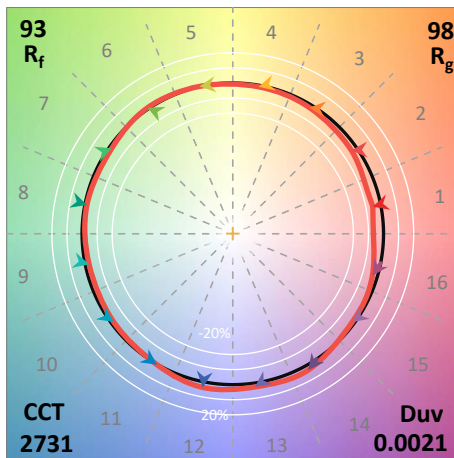
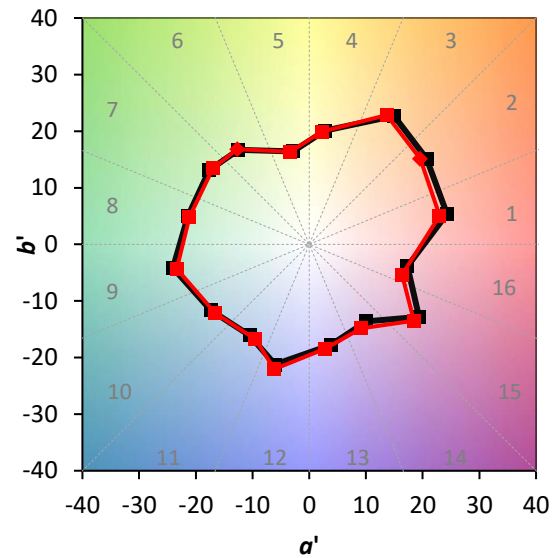
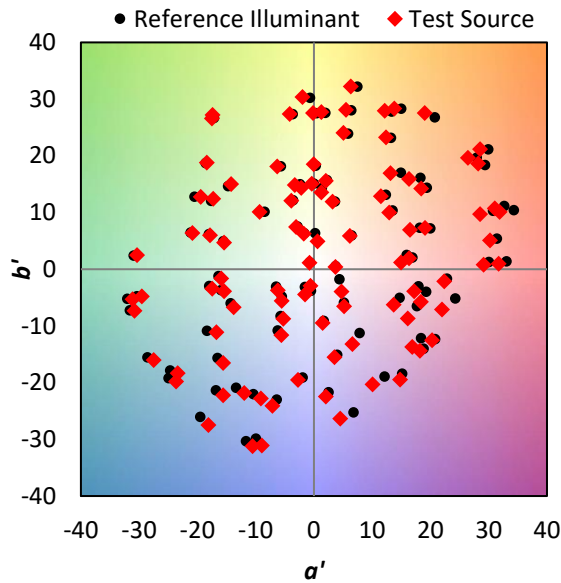
TM-30-18

Summary

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

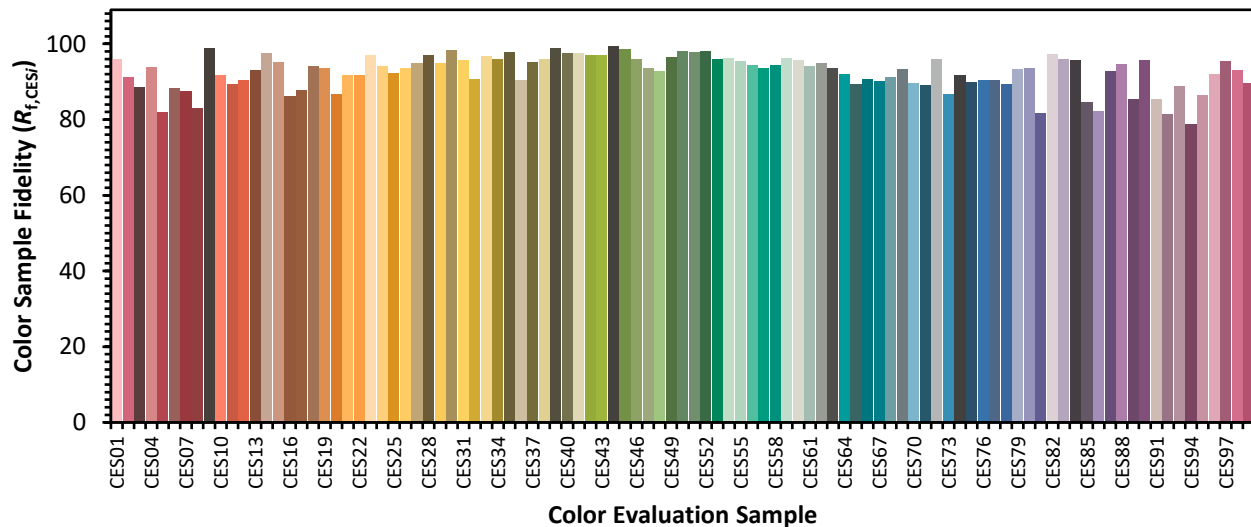


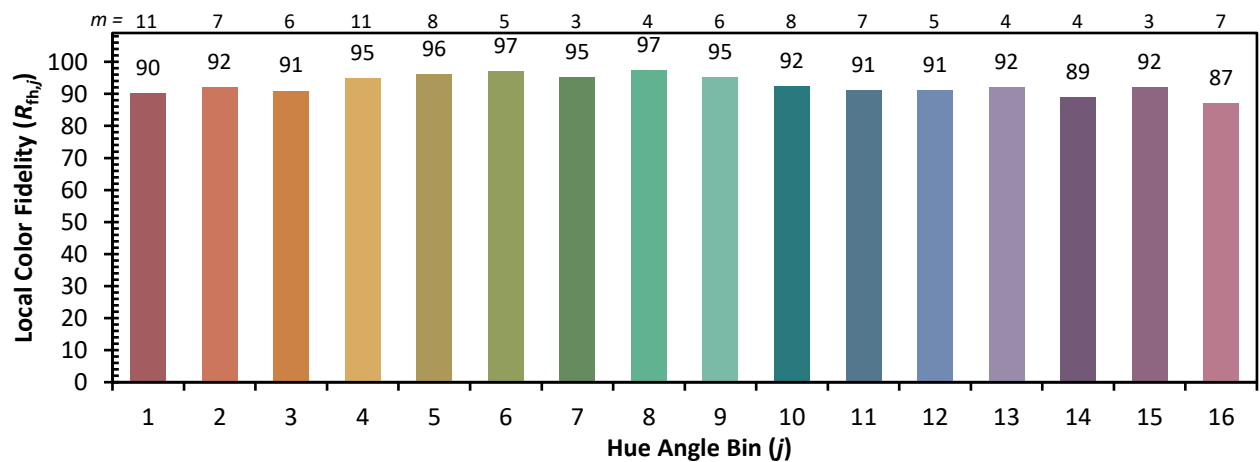
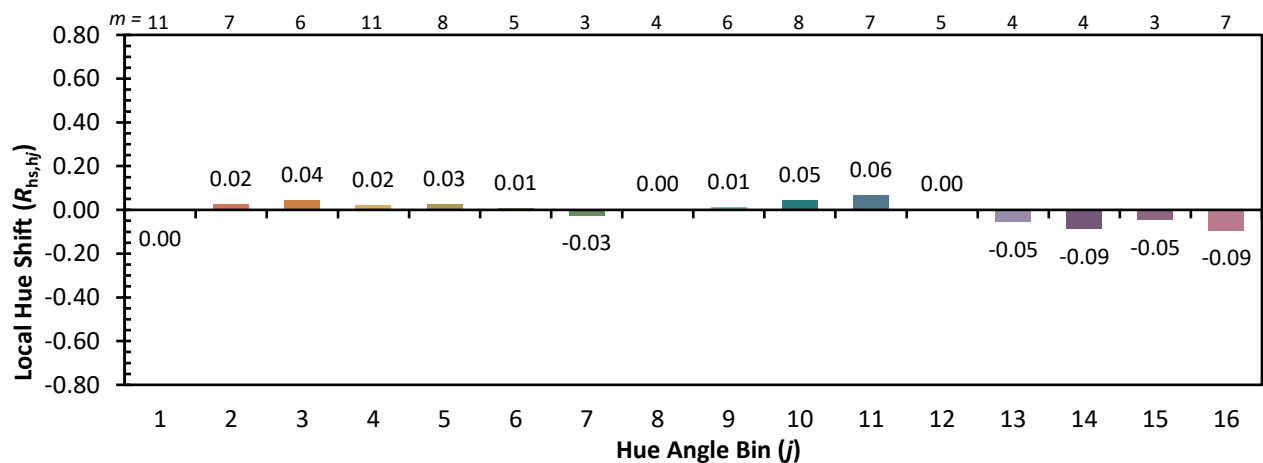
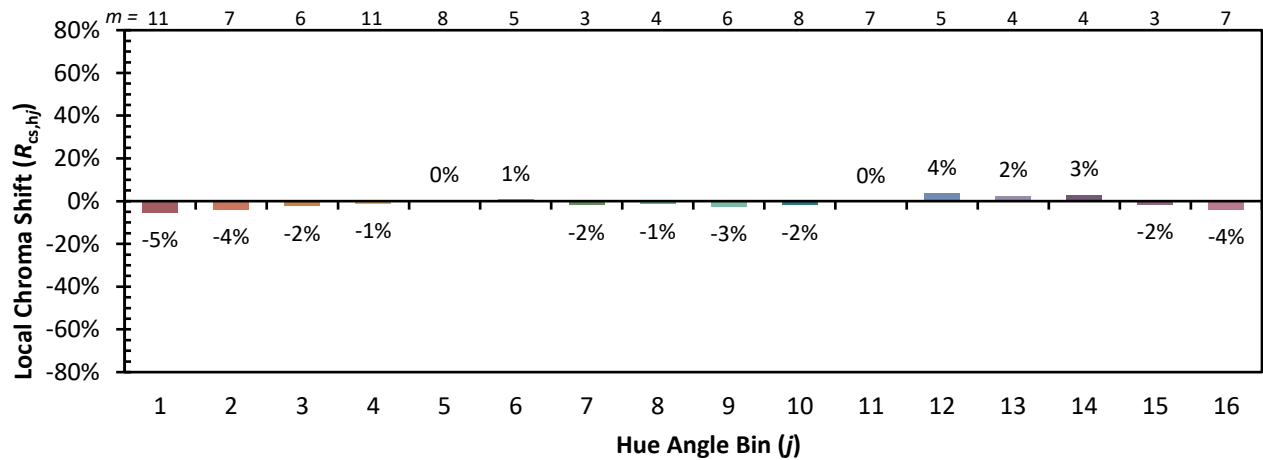
Color Vector Graphics

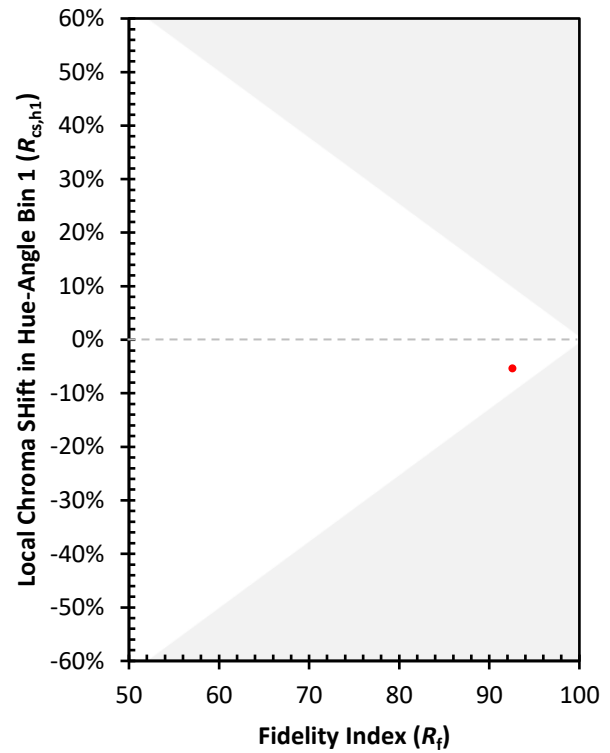
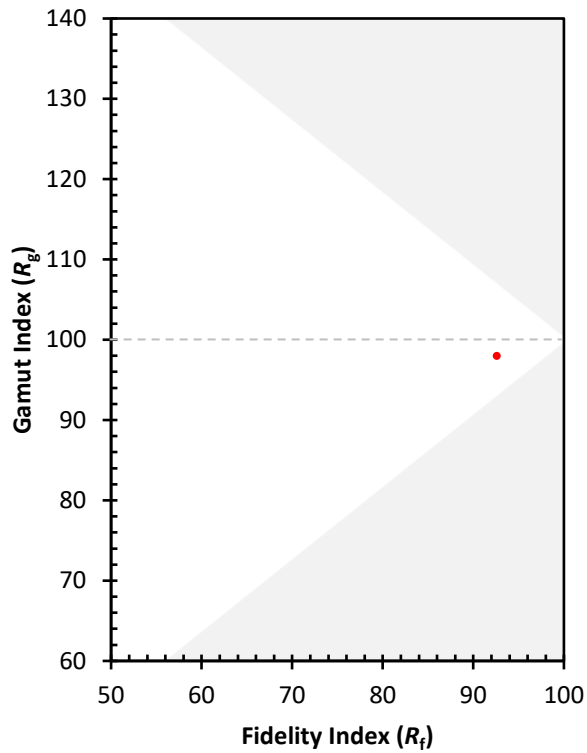


Individual Sample Fidelity Index ($R_{f,i}$)

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)