

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P1357378

Luminaire Tested: 6ASL4-5-1-40-UNV

Issue Date: 2/17/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1357378  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/17/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: 6ASL4-5-1-40-UNV  
Description: 6FT 500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 4000K LEDS 1 ROW  
Light Source: -  
Ballast/Driver: -

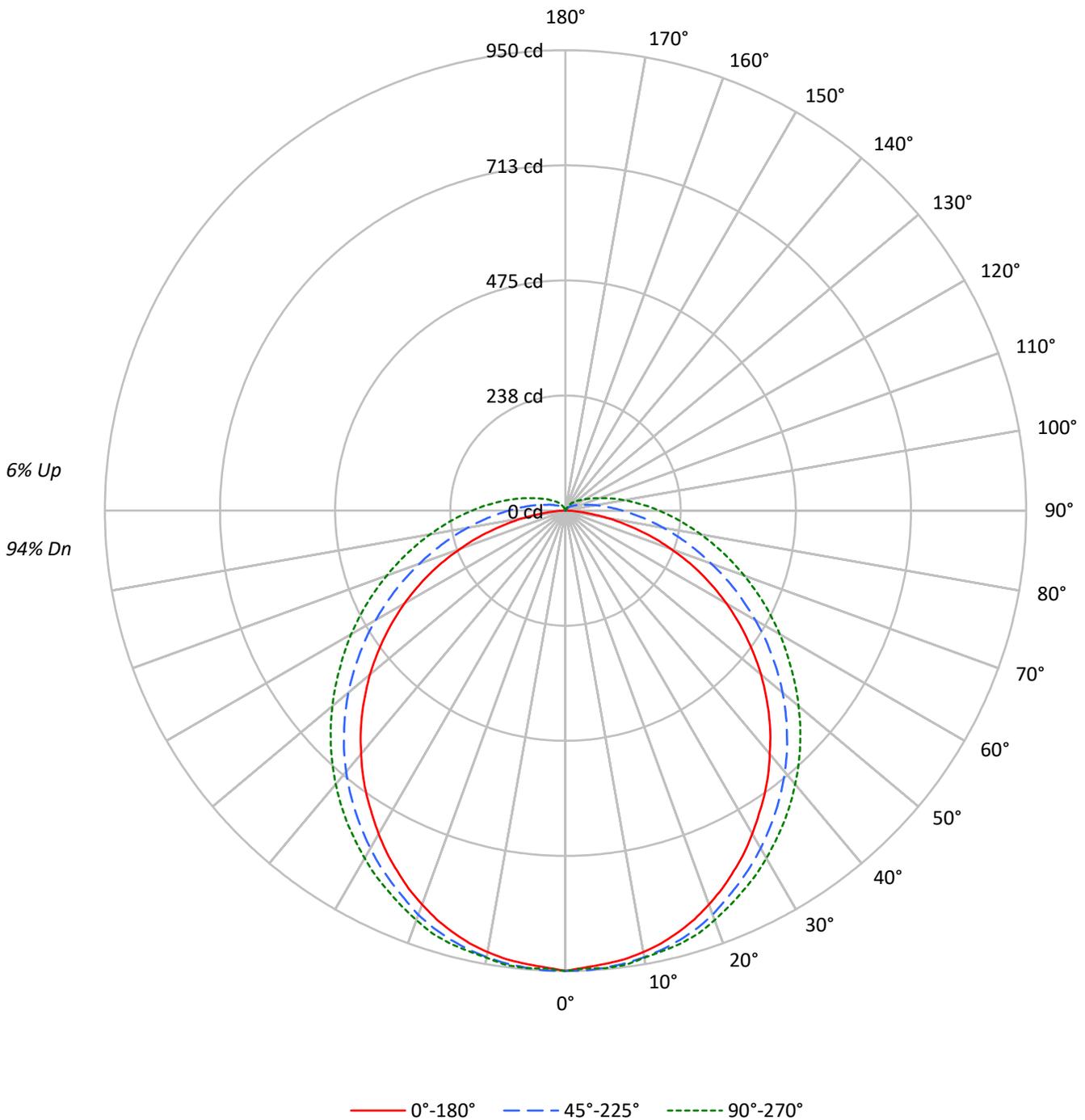
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3180.0 lumens  
Efficiency: N/A  
Efficacy: 123.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 5.98' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 25.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P1357378  
CATALOG NUMBER: 6ASL4-5-1-40-UNV

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	96	96	96	94
1	106	100	95	91	102	97	93	89	92	88	85	87	84	81	82	80	78	82	80	78	75
2	95	86	79	73	92	84	77	71	79	74	69	75	70	66	71	67	64	71	67	64	61
3	87	76	67	60	84	73	65	59	69	63	57	66	60	55	62	58	54	62	58	54	51
4	79	67	57	50	76	65	56	50	62	54	48	58	52	47	56	50	46	56	50	46	43
5	73	59	50	43	70	58	49	43	55	47	42	52	46	41	50	44	40	50	44	40	37
6	67	53	44	38	65	52	43	37	50	42	36	47	41	35	45	39	35	45	39	35	32
7	62	48	39	33	60	47	39	33	45	37	32	43	36	31	41	35	31	41	35	31	29
8	58	44	35	29	56	43	35	29	41	34	29	39	33	28	38	32	27	38	32	27	25
9	54	40	32	26	52	39	32	26	38	31	26	36	30	25	35	29	25	35	29	25	23
10	51	37	29	24	49	36	29	24	35	28	23	34	27	23	32	27	22	32	27	22	21

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5130	5130	5130
5°	5083	5029	5001
10°	5058	4930	4870
15°	5011	4823	4768
20°	4940	4702	4641
25°	4852	4556	4504
30°	4757	4423	4376
35°	4661	4287	4249
40°	4554	4150	4117
45°	4452	3999	3983
50°	4334	3843	3842
55°	4186	3666	3700
60°	4022	3480	3577
65°	3812	3285	3453
70°	3481	3081	3332
75°	3053	2900	3239
80°	2463	2747	3183
85°	1499	2652	3204

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4452 cd/sqm



TEST NUMBER: P1357378  
 CATALOG NUMBER: 6ASL4-5-1-40-UNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.9	2.8
10°-20°	258.2	8.1
20°-30°	390.4	12.3
30°-40°	471.9	14.8
40°-50°	496.1	15.6
50°-60°	462.2	14.5
60°-70°	379.7	11.9
70°-80°	269.5	8.5
80°-90°	162.5	5.1
90°-100°	91.0	2.9
100°-110°	50.4	1.6
110°-120°	28.1	0.9
120°-130°	16.2	0.5
130°-140°	8.9	0.3
140°-150°	3.9	0.1
150°-160°	0.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	738.5	23.2
0°-40°	1210.4	38.1
0°-60°	2168.8	68.2
0°-90°	2980.5	93.7
90°-120°	169.6	5.3
90°-150°	198.5	6.2
90°-180°	199.0	6.3
0°-180°	3180.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	950	950	950	950	950	
5°	939	948	947	946	948	89
15°	900	912	916	921	924	254
25°	821	836	848	860	866	378
35°	716	734	756	776	785	447
45°	593	615	646	673	684	457
55°	456	481	519	553	568	407
65°	309	337	386	431	451	305
75°	156	196	260	314	336	167
85°	29	84	157	215	236	36
90°	0	49	117	172	192	1
95°	0	29	86	135	155	0
105°	0	11	45	82	97	0
115°	0	5	28	49	59	0
125°	0	3	17	32	38	0
135°	0	1	11	20	26	0
145°	1	0	4	12	15	1
155°	1	1	0	3	4	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P1357378

CATALOG NUMBER: 6ASL4-5-1-40-UNV

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	949.8	949.8	949.8	949.8	949.8
2.5°	943.4	952.0	949.8	945.5	945.5
5°	939.1	947.7	946.6	945.5	947.7
7.5°	933.7	942.3	942.3	943.4	945.5
10°	925.1	935.9	935.9	935.9	936.9
12.5°	914.4	925.1	927.3	928.3	930.5
15°	900.4	912.2	916.5	920.8	924.1
17.5°	884.3	896.1	903.6	909.0	914.4
20°	865.0	877.8	887.5	894.0	899.3
22.5°	844.5	857.4	867.1	876.8	883.2
25°	820.9	835.9	847.8	859.6	866.0
27.5°	797.3	812.3	827.3	841.3	848.8
30°	770.4	787.6	804.8	820.9	828.4
32.5°	742.5	760.7	781.1	798.3	806.9
35°	715.6	733.9	756.4	775.8	785.4
37.5°	686.6	704.9	730.6	752.1	761.8
40°	655.4	675.8	703.8	726.3	737.1
42.5°	625.3	645.8	675.8	700.6	711.3
45°	593.1	614.6	645.8	672.6	684.4
47.5°	559.8	582.4	615.7	643.6	656.5
50°	526.5	550.1	584.5	614.6	627.5
52.5°	491.0	515.7	552.3	584.5	598.5
55°	455.6	481.4	519.0	553.4	568.4
57.5°	420.1	445.9	486.7	523.3	539.4
60°	383.6	410.5	452.4	492.1	510.4
62.5°	346.0	373.9	418.0	461.0	480.3
65°	309.4	337.4	385.7	430.9	451.3
67.5°	270.8	300.9	352.4	399.7	421.2
70°	231.0	265.4	320.2	370.7	392.2
72.5°	195.6	231.0	290.1	341.7	364.2
75°	155.8	195.6	260.0	313.7	336.3
77.5°	121.4	164.4	232.1	286.9	309.4
80°	87.0	134.3	205.2	261.1	283.7
82.5°	55.9	107.4	180.5	237.5	258.9
85°	29.0	83.8	156.9	214.9	236.4
87.5°	8.6	64.5	135.4	192.3	213.8
90°	0.0	49.4	117.1	171.9	192.3
92.5°	0.0	37.6	101.0	153.7	174.1
95°	0.0	29.0	86.0	135.4	154.7
97.5°	0.0	22.6	74.1	119.3	138.6
100°	0.0	18.3	63.4	105.3	123.6
102.5°	0.0	15.0	54.8	93.5	109.6
105°	0.0	10.7	45.1	81.7	96.7
107.5°	0.0	7.5	39.8	72.0	84.9
110°	0.0	6.4	35.5	62.3	75.2



TEST NUMBER: P1357378  
 CATALOG NUMBER: 6ASL4-5-1-40-UNV

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	5.4	31.2	55.9	66.6
115°	0.0	5.4	27.9	49.4	59.1
117.5°	0.0	4.3	23.6	44.1	52.6
120°	0.0	4.3	21.5	39.8	47.3
122.5°	0.0	3.2	19.3	35.5	43.0
125°	0.0	3.2	17.2	32.2	37.6
127.5°	0.0	2.1	15.0	29.0	34.4
130°	0.0	2.1	14.0	25.8	31.2
132.5°	0.0	1.1	12.9	23.6	27.9
135°	0.0	1.1	10.7	20.4	25.8
137.5°	0.0	0.0	9.7	18.3	22.6
140°	0.0	0.0	7.5	16.1	20.4
142.5°	1.1	0.0	6.4	14.0	17.2
145°	1.1	0.0	4.3	11.8	15.0
147.5°	1.1	1.1	3.2	9.7	11.8
150°	1.1	1.1	2.1	6.4	9.7
152.5°	1.1	1.1	1.1	4.3	6.4
155°	1.1	1.1	0.0	3.2	4.3
157.5°	1.1	1.1	0.0	1.1	2.1
160°	1.1	1.1	0.0	0.0	1.1
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.10	16.65	15.56	17.09	17.56	17.11	18.66	17.57	19.10	19.57
	3H	16.59	18.00	17.06	18.45	18.96	19.53	20.94	20.00	21.40	21.91
	4H	17.06	18.40	17.55	18.87	19.40	20.71	22.05	21.20	22.52	23.04
	6H	17.34	18.59	17.84	19.07	19.61	21.93	23.18	22.44	23.66	24.20
	8H	17.39	18.59	17.91	19.10	19.64	22.57	23.76	23.08	24.27	24.81
	12H	17.40	18.55	17.93	19.05	19.63	23.27	24.42	23.80	24.92	25.50
4H	2H	15.97	17.31	16.46	17.78	18.30	17.54	18.88	18.03	19.35	19.87
	3H	17.69	18.84	18.20	19.35	19.90	20.19	21.33	20.69	21.84	22.39
	4H	18.29	19.34	18.82	19.86	20.44	21.53	22.57	22.05	23.10	23.68
	6H	18.69	19.61	19.23	20.16	20.75	22.94	23.87	23.49	24.42	25.01
	8H	18.78	19.65	19.33	20.20	20.80	23.68	24.55	24.23	25.10	25.71
	12H	18.82	19.61	19.40	20.19	20.80	24.51	25.30	25.09	25.88	26.49
8H	4H	18.95	19.82	19.50	20.37	20.97	21.74	22.61	22.29	23.16	23.76
	6H	19.52	20.25	20.10	20.85	21.46	23.32	24.06	23.90	24.65	25.26
	8H	19.69	20.36	20.29	20.96	21.59	24.20	24.86	24.79	25.47	26.09
	12H	19.80	20.40	20.40	20.99	21.68	25.21	25.80	25.81	26.39	27.09
12H	4H	19.13	19.92	19.71	20.50	21.11	21.75	22.54	22.32	23.12	23.73
	6H	19.80	20.46	20.39	21.06	21.69	23.36	24.02	23.95	24.62	25.25
	8H	20.07	20.66	20.66	21.25	21.94	24.30	24.89	24.90	25.48	26.18

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

Report Prepared for

Cooper Lighting Solutions

Fail-Safe

Report Number: SP1-2511-597-4

Test Date: 11/18/2025

Luminaire Tested: 4ASL-2-40-UNV-OPL-1\_600mA

Data in this report applies to families of products including 4ASL

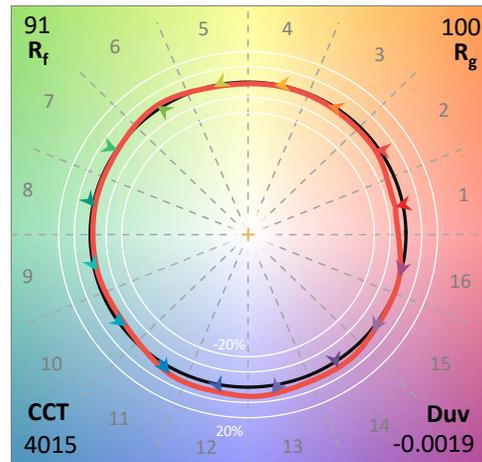
**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2511-597-4  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry:  $4\pi$   
 Issue Date: 11/18/2025  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: Fail-Safe  
 Catalog Number: **4ASL-2-40-UNV-OPL-1\_600mA**  
 Description: 2foot 4ASL LED LUMINAIRE WITH OPL LENS AND 4000K LEDs with 1 rows at 600mA

**Spectral Parameters**

CCT (K): 4015  
 CIE u': 0.2259  
 CIE v': 0.4990  
 Duv: -0.0019  
 CIE x: 0.3785  
 CIE y: 0.3715  
 CIE z: 0.2500  
 Peak Wavelength (nm): 630  
 Dominant Wavelength (nm): 580  
 Purity: 25.06827  
 Rf: 90.7  
 Rg: 100.2

CRI (Ra): 93.9  
 R1: 95.7  
 R2: 96.3  
 R3: 94.8  
 R4: 95.2  
 R5: 94.6  
 R6: 93.5  
 R7: 94.0  
 R8: 87.2  
 R9: 66.3  
 R10: 89.1  
 R11: 95.0  
 R12: 73.8  
 R13: 96.0  
 R14: 96.4  
 R15: 93.2



**Test Conditions**

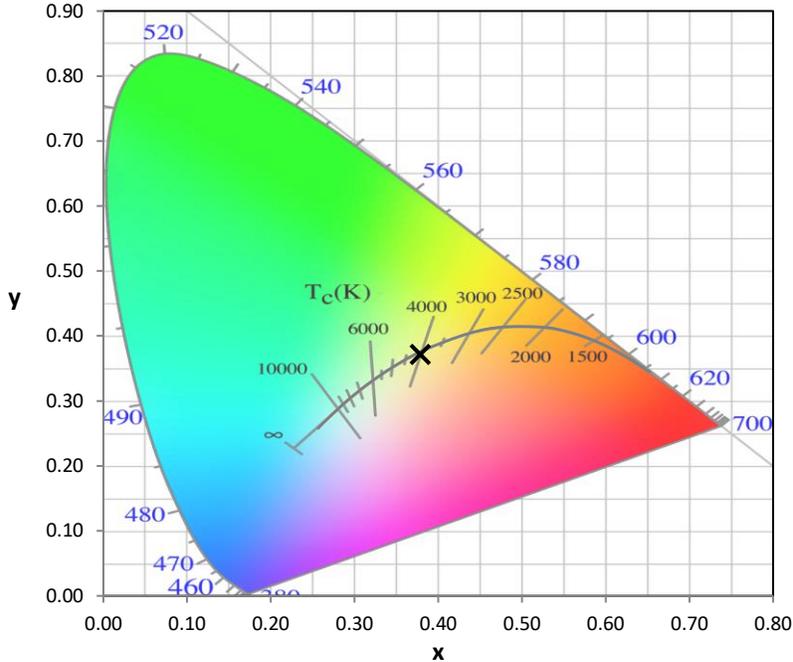
Stabilization Time: 23M  
 Operation Time: 1H 23M  
 Sphere Temperature (°C): 24.1

REPORT NUMBER: SP1-2511-597-4

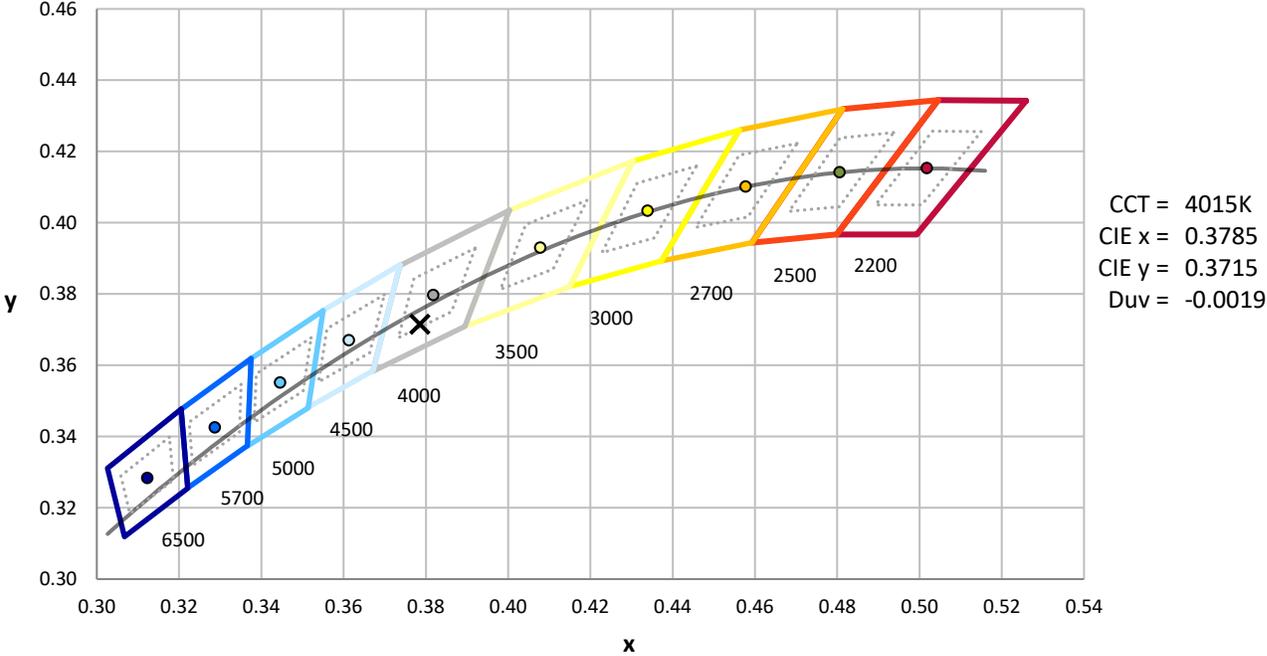
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	10/21/2025	10/21/2026
Sphere Thermometer	ONSET IN0085	10/21/2025	10/21/2026
Room Thermometer	ONSET IN0046	10/21/2025	10/21/2026

REPORT NUMBER: SP1-2511-597-4

CIE 1931 Chromaticity Diagram



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

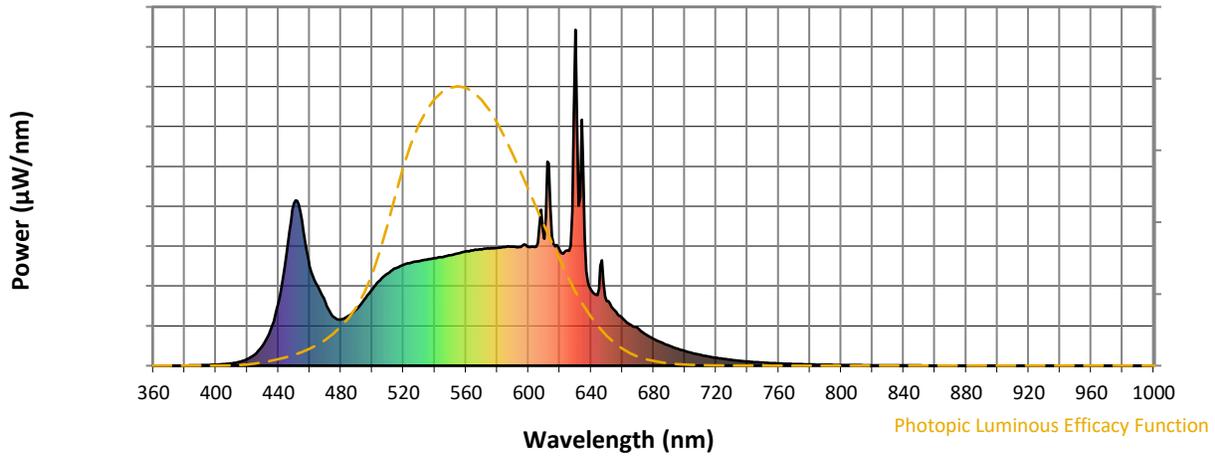


CCT = 4015K  
 CIE x = 0.3785  
 CIE y = 0.3715  
 Duv = -0.0019

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2511-597-4

**Photopic Flux vs. Wavelength**



**Photopic Lumens: NR**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)
360	0	NR	490	169	NR	620	343	NR	750	9	NR	880	0	NR
365	0	NR	495	197	NR	625	343	NR	755	8	NR	885	0	NR
370	0	NR	500	228	NR	630	1000	NR	760	7	NR	890	0	NR
375	0	NR	505	254	NR	635	591	NR	765	6	NR	895	0	NR
380	0	NR	510	274	NR	640	225	NR	770	5	NR	900	0	NR
385	1	NR	515	290	NR	645	229	NR	775	4	NR	905	0	NR
390	1	NR	520	300	NR	650	193	NR	780	4	NR	910	0	NR
395	2	NR	525	307	NR	655	165	NR	785	3	NR	915	0	NR
400	3	NR	530	311	NR	660	142	NR	790	3	NR	920	0	NR
405	5	NR	535	316	NR	665	122	NR	795	2	NR	925	0	NR
410	7	NR	540	320	NR	670	112	NR	800	2	NR	930	0	NR
415	11	NR	545	323	NR	675	93	NR	805	2	NR	935	0	NR
420	20	NR	550	329	NR	680	80	NR	810	2	NR	940	0	NR
425	35	NR	555	334	NR	685	69	NR	815	1	NR	945	0	NR
430	61	NR	560	340	NR	690	59	NR	820	1	NR	950	0	NR
435	108	NR	565	344	NR	695	51	NR	825	1	NR	955	0	NR
440	187	NR	570	346	NR	700	43	NR	830	1	NR	960	0	NR
445	329	NR	575	349	NR	705	37	NR	835	1	NR	965	0	NR
450	484	NR	580	351	NR	710	32	NR	840	1	NR	970	0	NR
455	433	NR	585	353	NR	715	27	NR	845	1	NR	975	0	NR
460	296	NR	590	354	NR	720	23	NR	850	1	NR	980	0	NR
465	237	NR	595	353	NR	725	20	NR	855	0	NR	985	0	NR
470	188	NR	600	354	NR	730	17	NR	860	0	NR	990	0	NR
475	146	NR	605	354	NR	735	15	NR	865	0	NR	995	0	NR
480	138	NR	610	378	NR	740	12	NR	870	0	NR	1000	0	NR
485	149	NR	615	385	NR	745	11	NR	875	0	NR			

REPORT NUMBER: SP1-2511-597-4

**Scotopic Flux vs. Wavelength**



**Scotopic Lumens: NR**

**S/P: 1.79**

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	169	NR	620	343	NR	750	9	NR	880	0	NR
365	0	NR	495	197	NR	625	343	NR	755	8	NR	885	0	NR
370	0	NR	500	228	NR	630	1000	NR	760	7	NR	890	0	NR
375	0	NR	505	254	NR	635	591	NR	765	6	NR	895	0	NR
380	0	NR	510	274	NR	640	225	NR	770	5	NR	900	0	NR
385	1	NR	515	290	NR	645	229	NR	775	4	NR	905	0	NR
390	1	NR	520	300	NR	650	193	NR	780	4	NR	910	0	NR
395	2	NR	525	307	NR	655	165	NR	785	3	NR	915	0	NR
400	3	NR	530	311	NR	660	142	NR	790	3	NR	920	0	NR
405	5	NR	535	316	NR	665	122	NR	795	2	NR	925	0	NR
410	7	NR	540	320	NR	670	112	NR	800	2	NR	930	0	NR
415	11	NR	545	323	NR	675	93	NR	805	2	NR	935	0	NR
420	20	NR	550	329	NR	680	80	NR	810	2	NR	940	0	NR
425	35	NR	555	334	NR	685	69	NR	815	1	NR	945	0	NR
430	61	NR	560	340	NR	690	59	NR	820	1	NR	950	0	NR
435	108	NR	565	344	NR	695	51	NR	825	1	NR	955	0	NR
440	187	NR	570	346	NR	700	43	NR	830	1	NR	960	0	NR
445	329	NR	575	349	NR	705	37	NR	835	1	NR	965	0	NR
450	484	NR	580	351	NR	710	32	NR	840	1	NR	970	0	NR
455	433	NR	585	353	NR	715	27	NR	845	1	NR	975	0	NR
460	296	NR	590	354	NR	720	23	NR	850	1	NR	980	0	NR
465	237	NR	595	353	NR	725	20	NR	855	0	NR	985	0	NR
470	188	NR	600	354	NR	730	17	NR	860	0	NR	990	0	NR
475	146	NR	605	354	NR	735	15	NR	865	0	NR	995	0	NR
480	138	NR	610	378	NR	740	12	NR	870	0	NR	1000	0	NR
485	149	NR	615	385	NR	745	11	NR	875	0	NR			

REPORT NUMBER: SP1-2511-597-4

**Melanopic Flux vs. Wavelength**



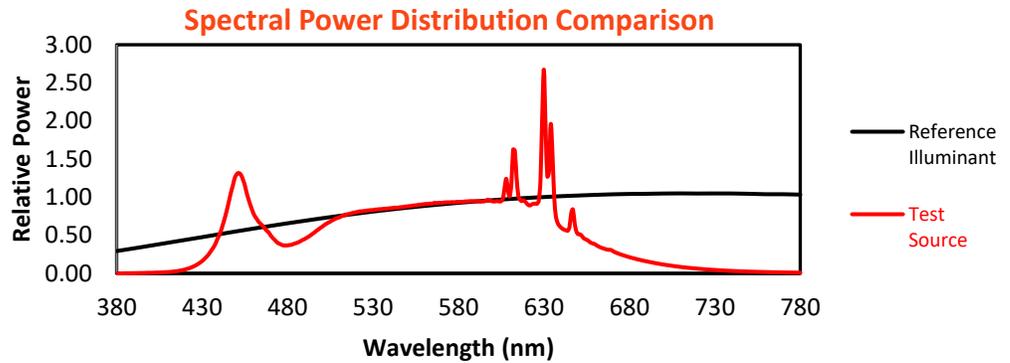
**Melanopic Lumens: NR**

**M/P: 3.74**

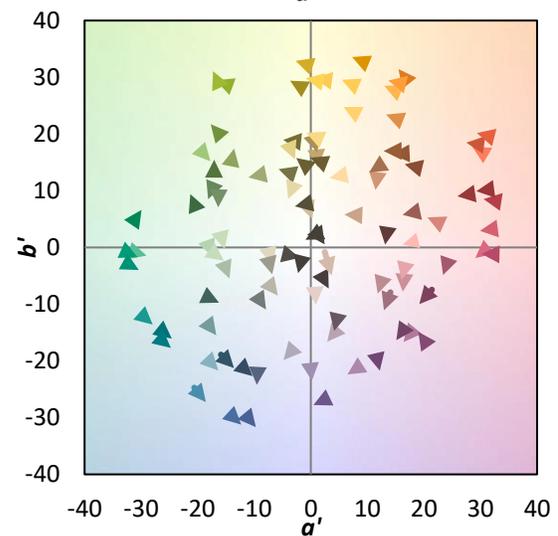
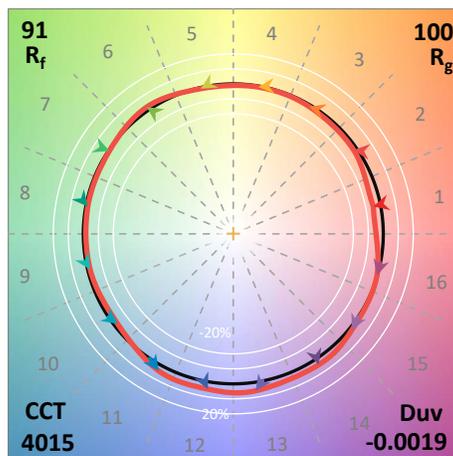
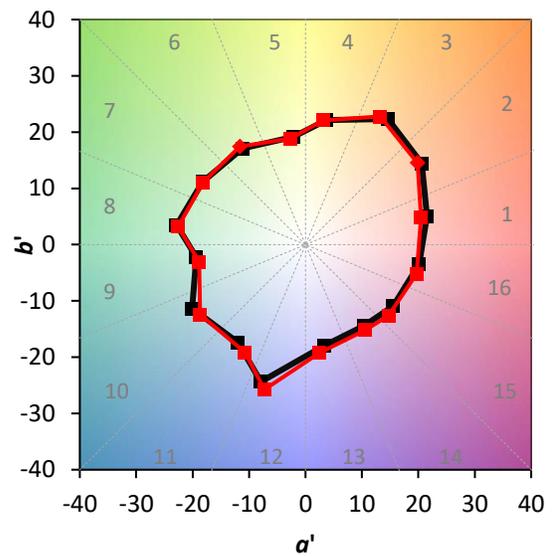
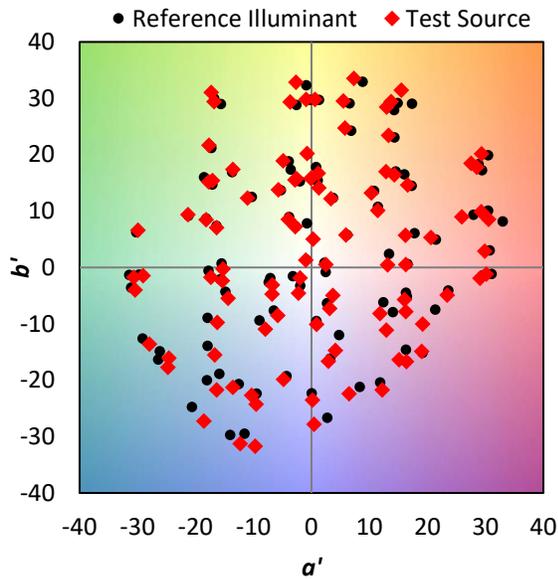
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	169	NR	620	343	NR	750	9	NR	880	0	NR
365	0	NR	495	197	NR	625	343	NR	755	8	NR	885	0	NR
370	0	NR	500	228	NR	630	1000	NR	760	7	NR	890	0	NR
375	0	NR	505	254	NR	635	591	NR	765	6	NR	895	0	NR
380	0	NR	510	274	NR	640	225	NR	770	5	NR	900	0	NR
385	1	NR	515	290	NR	645	229	NR	775	4	NR	905	0	NR
390	1	NR	520	300	NR	650	193	NR	780	4	NR	910	0	NR
395	2	NR	525	307	NR	655	165	NR	785	3	NR	915	0	NR
400	3	NR	530	311	NR	660	142	NR	790	3	NR	920	0	NR
405	5	NR	535	316	NR	665	122	NR	795	2	NR	925	0	NR
410	7	NR	540	320	NR	670	112	NR	800	2	NR	930	0	NR
415	11	NR	545	323	NR	675	93	NR	805	2	NR	935	0	NR
420	20	NR	550	329	NR	680	80	NR	810	2	NR	940	0	NR
425	35	NR	555	334	NR	685	69	NR	815	1	NR	945	0	NR
430	61	NR	560	340	NR	690	59	NR	820	1	NR	950	0	NR
435	108	NR	565	344	NR	695	51	NR	825	1	NR	955	0	NR
440	187	NR	570	346	NR	700	43	NR	830	1	NR	960	0	NR
445	329	NR	575	349	NR	705	37	NR	835	1	NR	965	0	NR
450	484	NR	580	351	NR	710	32	NR	840	1	NR	970	0	NR
455	433	NR	585	353	NR	715	27	NR	845	1	NR	975	0	NR
460	296	NR	590	354	NR	720	23	NR	850	1	NR	980	0	NR
465	237	NR	595	353	NR	725	20	NR	855	0	NR	985	0	NR
470	188	NR	600	354	NR	730	17	NR	860	0	NR	990	0	NR
475	146	NR	605	354	NR	735	15	NR	865	0	NR	995	0	NR
480	138	NR	610	378	NR	740	12	NR	870	0	NR	1000	0	NR
485	149	NR	615	385	NR	745	11	NR	875	0	NR			

**Summary**

$R_f = 90.7$   
 $R_g = 100.2$   
 CIE  $R_a = 93.9$   
 $R_9 = 66.3$

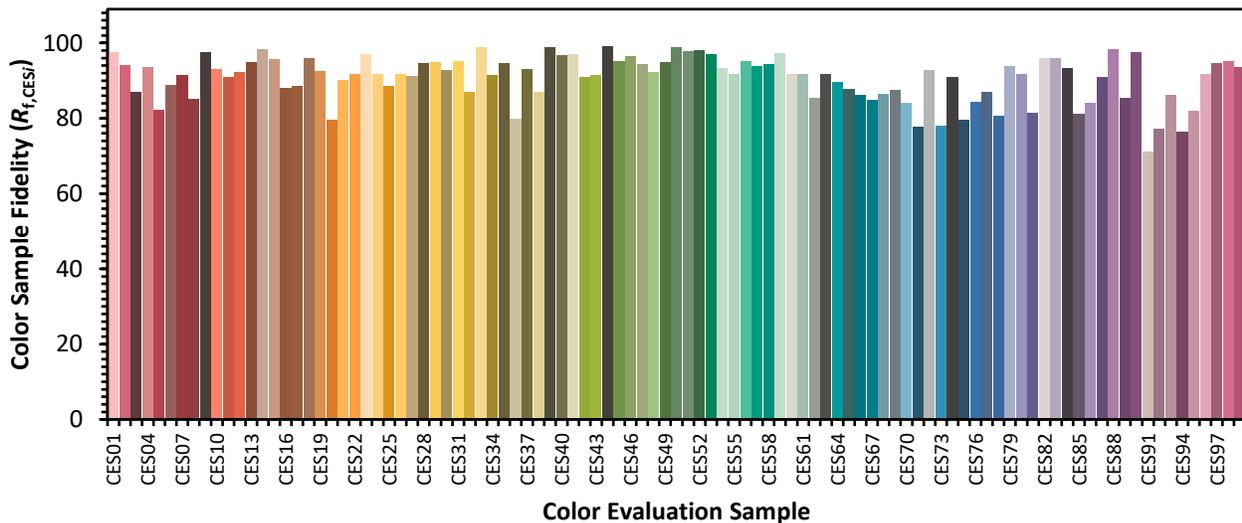


**Color Vector Graphics**



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

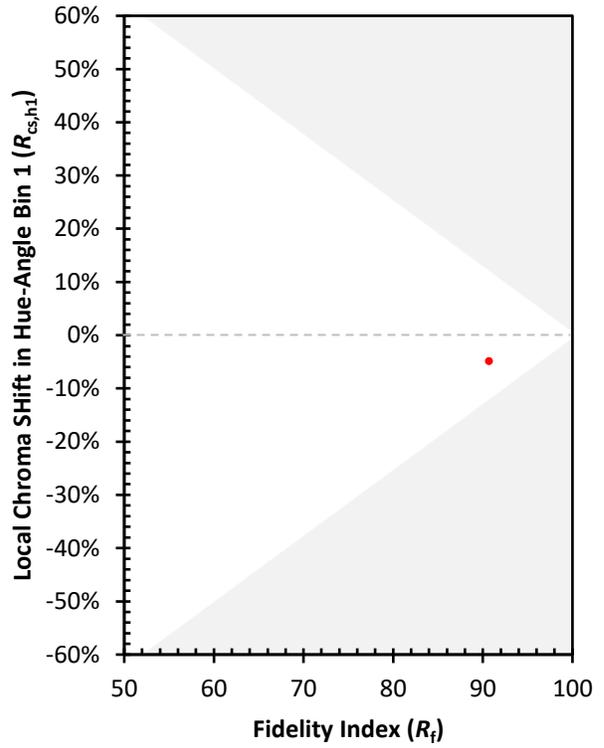
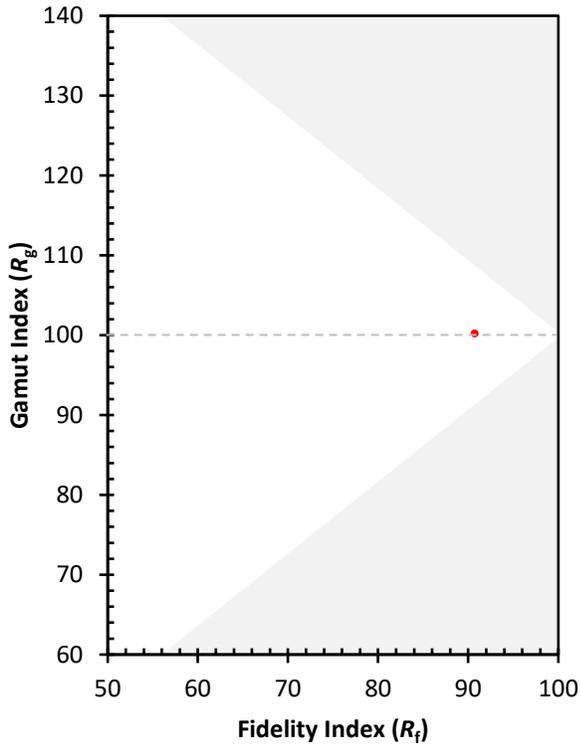
CES01 = 86	CES26 = 92	CES51 = 98	CES76 = 84
CES02 = 62	CES27 = 91	CES52 = 98	CES77 = 87
CES03 = 31	CES28 = 95	CES53 = 97	CES78 = 81
CES04 = 69	CES29 = 95	CES54 = 93	CES79 = 94
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 92
CES06 = 50	CES31 = 95	CES56 = 95	CES81 = 81
CES07 = 42	CES32 = 87	CES57 = 94	CES82 = 96
CES08 = 41	CES33 = 99	CES58 = 94	CES83 = 96
CES09 = 29	CES34 = 91	CES59 = 97	CES84 = 93
CES10 = 74	CES35 = 95	CES60 = 92	CES85 = 81
CES11 = 57	CES36 = 80	CES61 = 92	CES86 = 84
CES12 = 63	CES37 = 93	CES62 = 85	CES87 = 91
CES13 = 43	CES38 = 87	CES63 = 92	CES88 = 98
CES14 = 74	CES39 = 99	CES64 = 90	CES89 = 85
CES15 = 71	CES40 = 97	CES65 = 88	CES90 = 98
CES16 = 47	CES41 = 97	CES66 = 86	CES91 = 71
CES17 = 49	CES42 = 91	CES67 = 85	CES92 = 77
CES18 = 56	CES43 = 91	CES68 = 87	CES93 = 86
CES19 = 71	CES44 = 99	CES69 = 87	CES94 = 76
CES20 = 66	CES45 = 95	CES70 = 84	CES95 = 82
CES21 = 85	CES46 = 96	CES71 = 78	CES96 = 92
CES22 = 78	CES47 = 94	CES72 = 93	CES97 = 95
CES23 = 91	CES48 = 92	CES73 = 78	CES98 = 95
CES24 = 90	CES49 = 95	CES74 = 91	CES99 = 94
CES25 = 71	CES50 = 99	CES75 = 80	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)