

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: P1357332

Luminaire Tested: 6ASL4-20HE-2-35-UNV

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-7)
Test Lab: INNOVATION CENTER
Issue Date: 2/17/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: 6ASL4-20HE-2-35-UNV
Description: 6FT 2000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 3500K LEDS 2 ROW
Light Source: -
Ballast/Driver: -

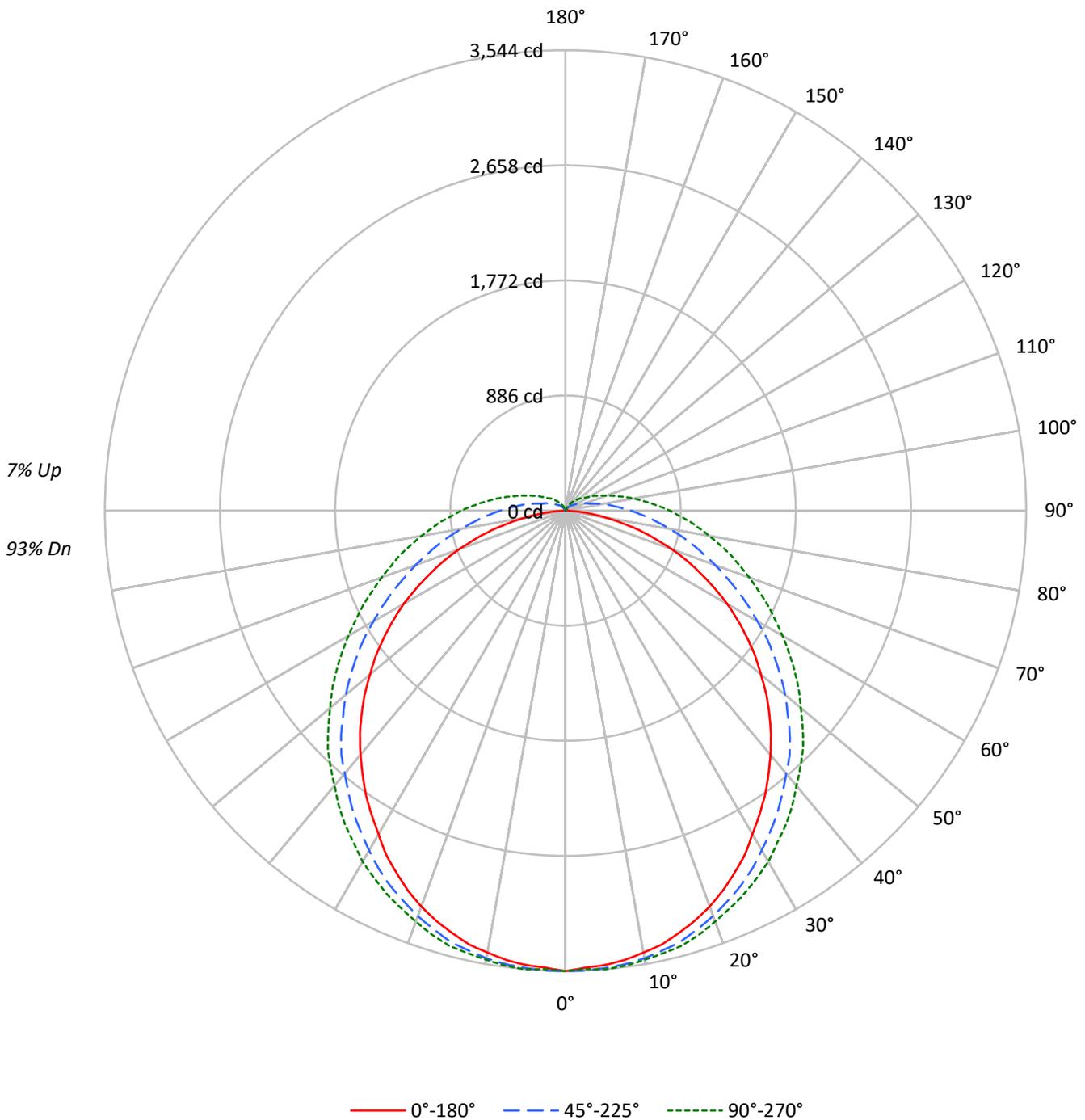
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12168.0 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 5.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 107.4
Input Voltage (V): NR
Input Current (A_{in}): 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

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Luminous Intensity Polar Plot





TEST NUMBER: P1357332

CATALOG NUMBER: 6ASL4-20HE-2-35-UNV

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	95	95	95	93
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	79	77	77	77	77	74
2	95	86	79	72	92	84	77	71	79	73	68	74	70	65	70	66	63	63	63	63	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	55	62	57	53	53	53	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	45	45	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	39	39	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	34	34	34	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	30	30	30	28
8	58	44	35	29	56	43	34	29	41	33	28	39	32	28	37	31	27	27	27	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	29	24	24	24	24	22
10	50	37	29	24	49	36	28	23	35	28	23	33	27	22	32	26	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19142	19142	19142
5°	19006	18772	18704
10°	18891	18435	18249
15°	18733	18066	17884
20°	18524	17596	17370
25°	18184	17132	16928
30°	17755	16601	16488
35°	17424	16108	15978
40°	17039	15575	15440
45°	16651	15117	15048
50°	16147	14509	14466
55°	15667	13855	14005
60°	15076	13119	13513
65°	14142	12437	13134
70°	13101	11799	12784
75°	11574	11314	12669
80°	9148	10894	12629
85°	5762	10926	12993

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16651 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.1	2.8
10°-20°	966.2	7.9
20°-30°	1464.1	12.0
30°-40°	1770.8	14.6
40°-50°	1866.8	15.3
50°-60°	1742.3	14.3
60°-70°	1438.5	11.8
70°-80°	1043.5	8.6
80°-90°	659.3	5.4
90°-100°	393.6	3.2
100°-110°	225.6	1.9
110°-120°	128.1	1.1
120°-130°	73.1	0.6
130°-140°	39.6	0.3
140°-150°	17.3	0.1
150°-160°	3.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2766.4	22.7
0°-40°	4537.2	37.3
0°-60°	8146.3	66.9
0°-90°	11287.6	92.8
90°-120°	747.3	6.1
90°-150°	877.3	7.2
90°-180°	880.0	7.2
0°-180°	12168.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3544	3544	3544	3544	3544	
5°	3511	3544	3533	3533	3544	333
15°	3366	3411	3433	3444	3466	950
25°	3076	3121	3188	3232	3255	1417
35°	2675	2742	2842	2920	2954	1672
45°	2218	2307	2441	2541	2586	1710
55°	1705	1806	1962	2095	2151	1524
65°	1148	1271	1460	1638	1716	1140
75°	591	747	1014	1226	1315	621
85°	112	346	646	869	959	136
90°	0	212	502	713	802	5
95°	0	134	379	580	658	0
105°	0	45	212	368	424	0
115°	0	22	123	223	268	0
125°	0	11	78	145	167	0
135°	0	0	45	89	112	0
145°	0	0	22	56	67	0
155°	0	0	0	11	22	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3544.4	3544.4	3544.4	3544.4	3544.4
2.5°	3522.1	3555.6	3544.4	3533.3	3533.3
5°	3511.0	3544.4	3533.3	3533.3	3544.4
7.5°	3488.7	3522.1	3522.1	3522.1	3533.3
10°	3455.2	3499.8	3499.8	3499.8	3511.0
12.5°	3421.8	3455.2	3466.4	3477.5	3488.7
15°	3366.1	3410.7	3433.0	3444.1	3466.4
17.5°	3310.3	3343.8	3377.2	3410.7	3421.8
20°	3243.5	3288.1	3321.5	3354.9	3366.1
22.5°	3165.4	3210.0	3254.6	3288.1	3310.3
25°	3076.3	3120.9	3187.7	3232.3	3254.6
27.5°	2987.1	3031.7	3109.7	3165.4	3187.7
30°	2875.7	2942.5	3020.6	3087.4	3120.9
32.5°	2775.3	2842.2	2931.4	3009.4	3031.7
35°	2675.0	2741.9	2842.2	2920.2	2953.7
37.5°	2563.6	2641.6	2741.9	2831.1	2864.5
40°	2452.1	2530.1	2641.6	2741.9	2764.2
42.5°	2340.6	2418.7	2552.4	2641.6	2675.0
45°	2218.0	2307.2	2441.0	2541.3	2585.9
47.5°	2095.4	2184.6	2318.4	2429.8	2474.4
50°	1961.7	2062.0	2206.9	2318.4	2362.9
52.5°	1839.1	1939.4	2084.3	2206.9	2262.6
55°	1705.3	1805.6	1961.7	2095.4	2151.2
57.5°	1571.6	1671.9	1839.1	1984.0	2039.7
60°	1437.8	1538.1	1705.3	1872.5	1928.2
62.5°	1292.9	1404.4	1582.7	1749.9	1816.8
65°	1148.0	1270.6	1460.1	1638.5	1716.5
67.5°	1014.3	1136.9	1337.5	1538.1	1605.0
70°	869.4	1003.1	1226.1	1426.7	1504.7
72.5°	724.5	869.4	1114.6	1326.4	1404.4
75°	590.7	746.8	1014.3	1226.1	1315.2
77.5°	445.8	635.3	914.0	1136.9	1214.9
80°	323.2	523.9	813.7	1047.7	1125.7
82.5°	211.8	423.5	724.5	958.6	1036.6
85°	111.5	345.5	646.5	869.4	958.6
87.5°	33.4	267.5	568.4	791.4	869.4
90°	0.0	211.8	501.6	713.3	802.5
92.5°	0.0	167.2	434.7	646.5	724.5
95°	0.0	133.8	379.0	579.6	657.6
97.5°	0.0	111.5	334.4	523.9	590.7
100°	0.0	89.2	289.8	468.1	535.0
102.5°	0.0	66.9	245.2	412.4	479.3
105°	0.0	44.6	211.8	367.8	423.5
107.5°	0.0	33.4	178.3	323.2	379.0
110°	0.0	33.4	167.2	278.6	334.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	22.3	144.9	256.4	300.9
115°	0.0	22.3	122.6	222.9	267.5
117.5°	0.0	22.3	111.5	200.6	245.2
120°	0.0	22.3	100.3	178.3	211.8
122.5°	0.0	11.1	89.2	156.0	189.5
125°	0.0	11.1	78.0	144.9	167.2
127.5°	0.0	11.1	66.9	133.8	156.0
130°	0.0	11.1	66.9	122.6	144.9
132.5°	0.0	0.0	55.7	111.5	133.8
135°	0.0	0.0	44.6	89.2	111.5
137.5°	0.0	0.0	44.6	78.0	100.3
140°	0.0	0.0	33.4	78.0	89.2
142.5°	0.0	0.0	22.3	66.9	78.0
145°	0.0	0.0	22.3	55.7	66.9
147.5°	0.0	0.0	11.1	44.6	55.7
150°	0.0	0.0	11.1	33.4	44.6
152.5°	0.0	0.0	0.0	22.3	33.4
155°	0.0	0.0	0.0	11.1	22.3
157.5°	0.0	0.0	0.0	0.0	11.1
160°	0.0	0.0	0.0	0.0	0.0
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	19.58	21.11	20.05	21.57	22.06	21.67	23.20	22.14	23.66	24.15
	3H	21.08	22.48	21.57	22.95	23.48	24.13	25.53	24.62	26.00	26.53
	4H	21.56	22.89	22.07	23.38	23.92	25.35	26.68	25.86	27.17	27.71
	6H	21.83	23.07	22.35	23.57	24.13	26.64	27.88	27.16	28.38	28.94
	8H	21.89	23.07	22.42	23.60	24.16	27.31	28.50	27.85	29.02	29.59
	12H	21.90	23.04	22.44	23.56	24.15	28.07	29.20	28.61	29.72	30.32
4H	2H	20.46	21.79	20.97	22.28	22.82	22.10	23.42	22.60	23.91	24.45
	3H	22.21	23.34	22.72	23.87	24.44	24.79	25.92	25.31	26.45	27.02
	4H	22.81	23.85	23.35	24.39	24.99	26.18	27.22	26.72	27.76	28.36
	6H	23.22	24.13	23.77	24.70	25.31	27.67	28.59	28.23	29.15	29.77
	8H	23.31	24.17	23.88	24.74	25.37	28.45	29.31	29.02	29.88	30.51
	12H	23.36	24.14	23.95	24.74	25.37	29.33	30.11	29.92	30.71	31.34
8H	4H	23.52	24.38	24.08	24.94	25.57	26.40	27.26	26.97	27.83	28.46
	6H	24.10	24.83	24.70	25.44	26.07	28.06	28.80	28.66	29.40	30.04
	8H	24.29	24.95	24.90	25.57	26.21	28.99	29.65	29.60	30.27	30.91
	12H	24.41	25.00	25.02	25.61	26.32	30.06	30.64	30.67	31.25	31.96
12H	4H	23.72	24.50	24.31	25.10	25.73	26.41	27.19	27.00	27.79	28.42
	6H	24.41	25.07	25.02	25.69	26.33	28.10	28.76	28.71	29.38	30.03
	8H	24.70	25.29	25.31	25.90	26.61	29.10	29.69	29.71	30.29	31.00

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

Report Prepared for

Cooper Lighting Solutions

Fail-Safe

Report Number: SP1-2511-597-1

Test Date: 11/17/2025

Luminaire Tested: 4ASL-2-35-UNV-OPL-1_600mA

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

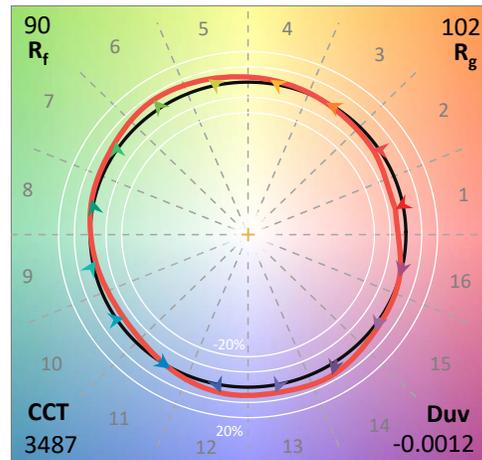
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2511-597-1
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 11/18/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Fail-Safe
 Catalog Number: **4ASL-2-35-UNV-OPL-1_600mA**
 Description: 2foot 4ASL LED LUMINAIRE WITH OPL LENS AND 3500K LEDs with 1 rows at 600mA

Spectral Parameters

CCT (K): 3487
 CIE u': 0.2366
 CIE v': 0.5099
 Duv: -0.0012
 CIE x: 0.4047
 CIE y: 0.3876
 CIE z: 0.2077
 Peak Wavelength (nm): 630
 Dominant Wavelength (nm): 581
 Purity: 37.79273
 Rf: 90
 Rg: 102.4

CRI (Ra):	92.5		
R1:	94.7	R9:	61.3
R2:	94.3	R10:	85.5
R3:	92.9	R11:	93.7
R4:	93.3	R12:	80.8
R5:	93.9	R13:	94.3
R6:	93.4	R14:	95.1
R7:	92.5	R15:	90.9
R8:	85.2		



Test Conditions

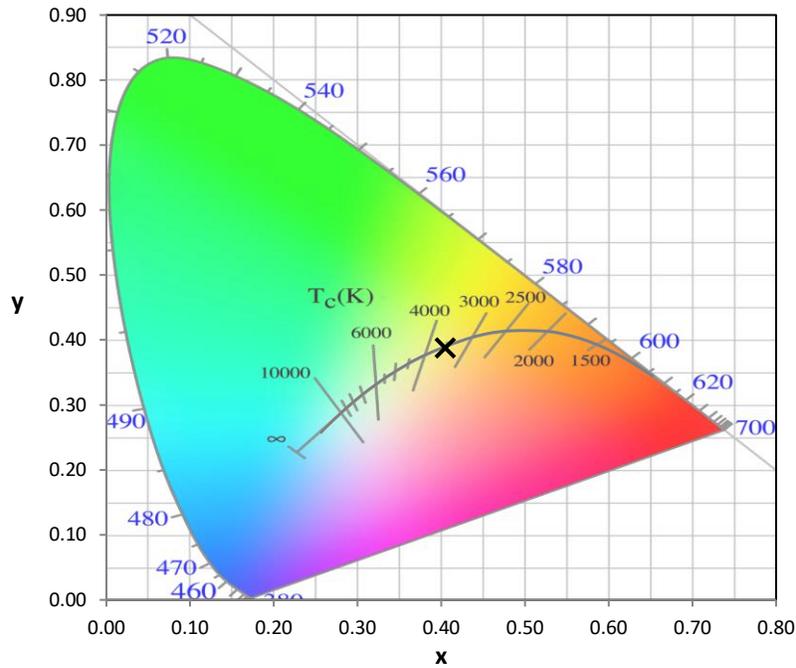
Stabilization Time: 31M
 Operation Time: 1H 31M
 Sphere Temperature (°C): 24.1

REPORT NUMBER: SP1-2511-597-1

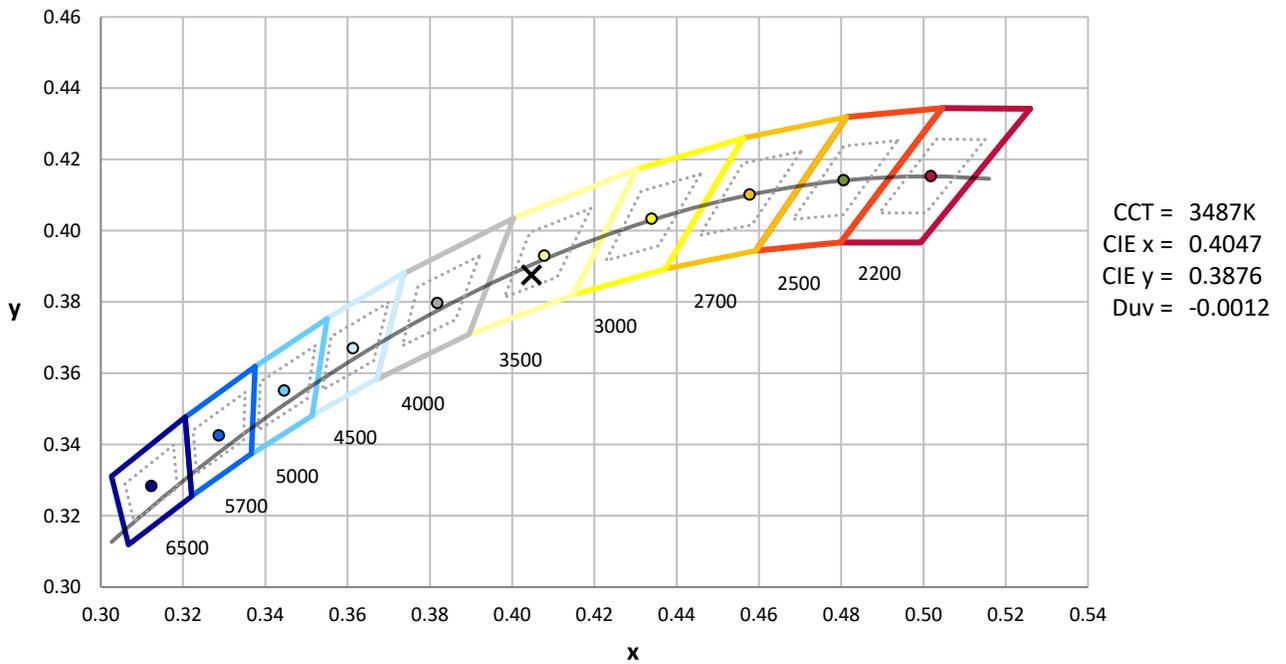
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

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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 3500K 4-step quadrangle

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Photopic Flux vs. Wavelength



Photopic Lumens: NR

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	122	NR	620	322	NR	750	8	NR	880	0	NR
365	0	NR	495	152	NR	625	323	NR	755	7	NR	885	0	NR
370	0	NR	500	180	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	205	NR	635	589	NR	765	5	NR	895	0	NR
380	0	NR	510	223	NR	640	210	NR	770	4	NR	900	0	NR
385	1	NR	515	238	NR	645	214	NR	775	4	NR	905	0	NR
390	1	NR	520	247	NR	650	181	NR	780	3	NR	910	0	NR
395	2	NR	525	252	NR	655	155	NR	785	3	NR	915	0	NR
400	3	NR	530	258	NR	660	133	NR	790	2	NR	920	0	NR
405	5	NR	535	262	NR	665	113	NR	795	2	NR	925	0	NR
410	7	NR	540	267	NR	670	104	NR	800	2	NR	930	0	NR
415	13	NR	545	271	NR	675	86	NR	805	2	NR	935	0	NR
420	24	NR	550	277	NR	680	74	NR	810	1	NR	940	0	NR
425	42	NR	555	284	NR	685	64	NR	815	1	NR	945	0	NR
430	72	NR	560	291	NR	690	55	NR	820	1	NR	950	0	NR
435	122	NR	565	296	NR	695	47	NR	825	1	NR	955	0	NR
440	207	NR	570	301	NR	700	40	NR	830	1	NR	960	0	NR
445	317	NR	575	306	NR	705	34	NR	835	1	NR	965	0	NR
450	304	NR	580	310	NR	710	29	NR	840	1	NR	970	0	NR
455	193	NR	585	315	NR	715	25	NR	845	1	NR	975	0	NR
460	149	NR	590	318	NR	720	21	NR	850	0	NR	980	0	NR
465	117	NR	595	320	NR	725	18	NR	855	0	NR	985	0	NR
470	85	NR	600	322	NR	730	15	NR	860	0	NR	990	0	NR
475	78	NR	605	325	NR	735	13	NR	865	0	NR	995	0	NR
480	84	NR	610	351	NR	740	11	NR	870	0	NR	1000	0	NR
485	98	NR	615	362	NR	745	10	NR	875	0	NR			

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.58

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	122	NR	620	322	NR	750	8	NR	880	0	NR
365	0	NR	495	152	NR	625	323	NR	755	7	NR	885	0	NR
370	0	NR	500	180	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	205	NR	635	589	NR	765	5	NR	895	0	NR
380	0	NR	510	223	NR	640	210	NR	770	4	NR	900	0	NR
385	1	NR	515	238	NR	645	214	NR	775	4	NR	905	0	NR
390	1	NR	520	247	NR	650	181	NR	780	3	NR	910	0	NR
395	2	NR	525	252	NR	655	155	NR	785	3	NR	915	0	NR
400	3	NR	530	258	NR	660	133	NR	790	2	NR	920	0	NR
405	5	NR	535	262	NR	665	113	NR	795	2	NR	925	0	NR
410	7	NR	540	267	NR	670	104	NR	800	2	NR	930	0	NR
415	13	NR	545	271	NR	675	86	NR	805	2	NR	935	0	NR
420	24	NR	550	277	NR	680	74	NR	810	1	NR	940	0	NR
425	42	NR	555	284	NR	685	64	NR	815	1	NR	945	0	NR
430	72	NR	560	291	NR	690	55	NR	820	1	NR	950	0	NR
435	122	NR	565	296	NR	695	47	NR	825	1	NR	955	0	NR
440	207	NR	570	301	NR	700	40	NR	830	1	NR	960	0	NR
445	317	NR	575	306	NR	705	34	NR	835	1	NR	965	0	NR
450	304	NR	580	310	NR	710	29	NR	840	1	NR	970	0	NR
455	193	NR	585	315	NR	715	25	NR	845	1	NR	975	0	NR
460	149	NR	590	318	NR	720	21	NR	850	0	NR	980	0	NR
465	117	NR	595	320	NR	725	18	NR	855	0	NR	985	0	NR
470	85	NR	600	322	NR	730	15	NR	860	0	NR	990	0	NR
475	78	NR	605	325	NR	735	13	NR	865	0	NR	995	0	NR
480	84	NR	610	351	NR	740	11	NR	870	0	NR	1000	0	NR
485	98	NR	615	362	NR	745	10	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



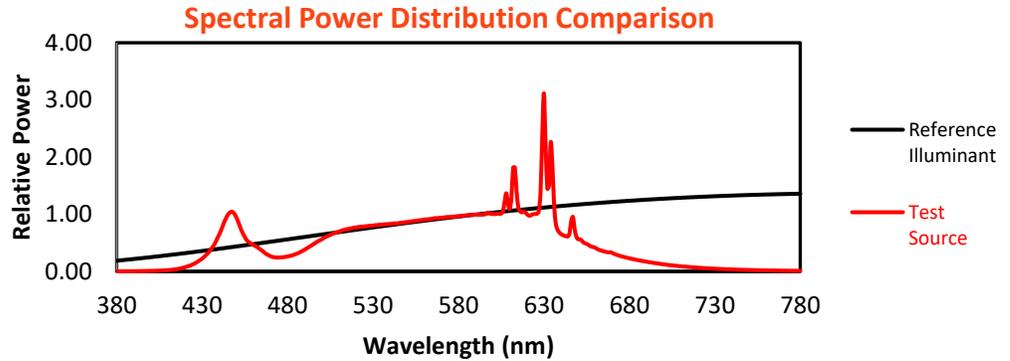
Melanopic Lumens: NR

M/P: 3.15

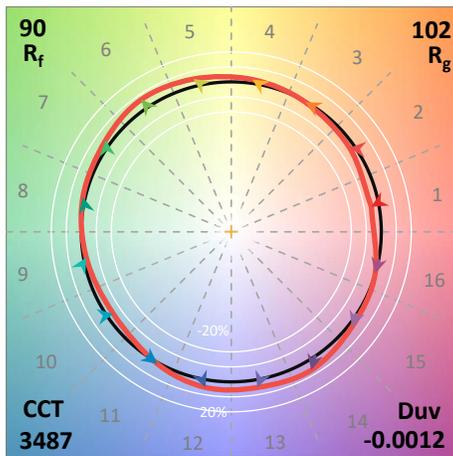
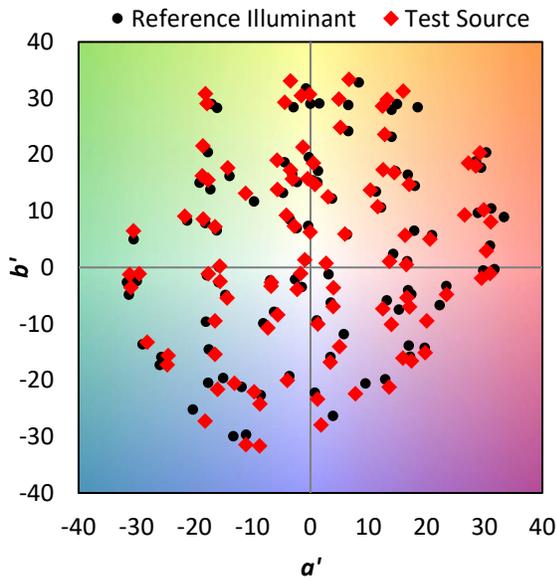
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)												
360	0	NR	490	122	NR	620	322	NR	750	8	NR	880	0	NR
365	0	NR	495	152	NR	625	323	NR	755	7	NR	885	0	NR
370	0	NR	500	180	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	205	NR	635	589	NR	765	5	NR	895	0	NR
380	0	NR	510	223	NR	640	210	NR	770	4	NR	900	0	NR
385	1	NR	515	238	NR	645	214	NR	775	4	NR	905	0	NR
390	1	NR	520	247	NR	650	181	NR	780	3	NR	910	0	NR
395	2	NR	525	252	NR	655	155	NR	785	3	NR	915	0	NR
400	3	NR	530	258	NR	660	133	NR	790	2	NR	920	0	NR
405	5	NR	535	262	NR	665	113	NR	795	2	NR	925	0	NR
410	7	NR	540	267	NR	670	104	NR	800	2	NR	930	0	NR
415	13	NR	545	271	NR	675	86	NR	805	2	NR	935	0	NR
420	24	NR	550	277	NR	680	74	NR	810	1	NR	940	0	NR
425	42	NR	555	284	NR	685	64	NR	815	1	NR	945	0	NR
430	72	NR	560	291	NR	690	55	NR	820	1	NR	950	0	NR
435	122	NR	565	296	NR	695	47	NR	825	1	NR	955	0	NR
440	207	NR	570	301	NR	700	40	NR	830	1	NR	960	0	NR
445	317	NR	575	306	NR	705	34	NR	835	1	NR	965	0	NR
450	304	NR	580	310	NR	710	29	NR	840	1	NR	970	0	NR
455	193	NR	585	315	NR	715	25	NR	845	1	NR	975	0	NR
460	149	NR	590	318	NR	720	21	NR	850	0	NR	980	0	NR
465	117	NR	595	320	NR	725	18	NR	855	0	NR	985	0	NR
470	85	NR	600	322	NR	730	15	NR	860	0	NR	990	0	NR
475	78	NR	605	325	NR	735	13	NR	865	0	NR	995	0	NR
480	84	NR	610	351	NR	740	11	NR	870	0	NR	1000	0	NR
485	98	NR	615	362	NR	745	10	NR	875	0	NR			

Summary

$R_f = 90$
 $R_g = 102.4$
 CIE $R_a = 92.5$
 $R_9 = 61.3$



Color Vector Graphics

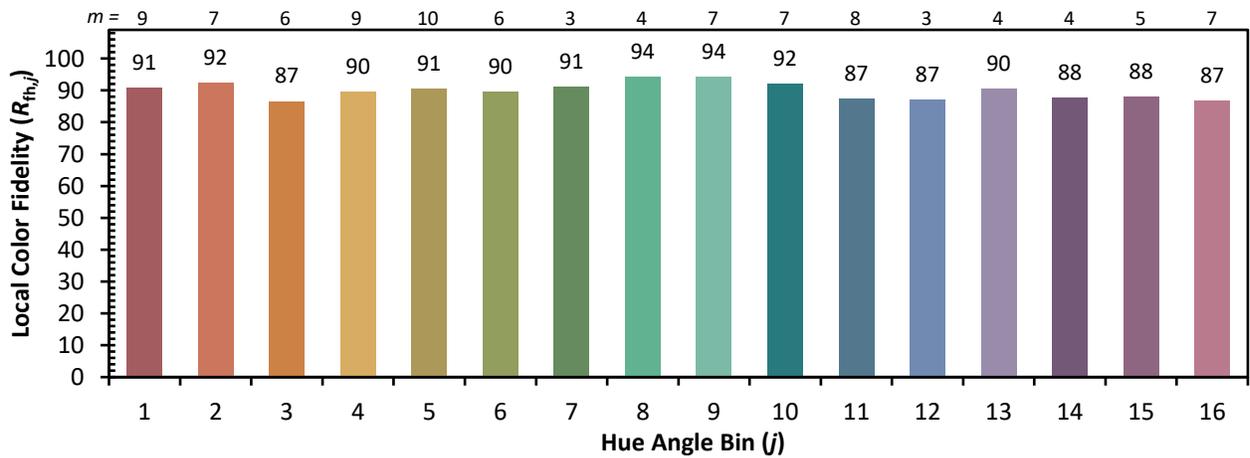
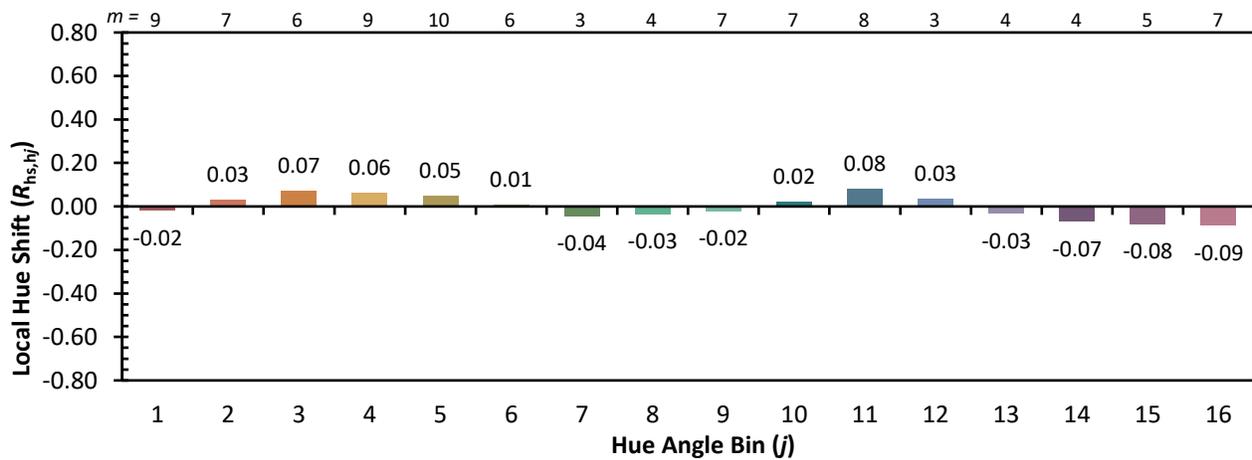
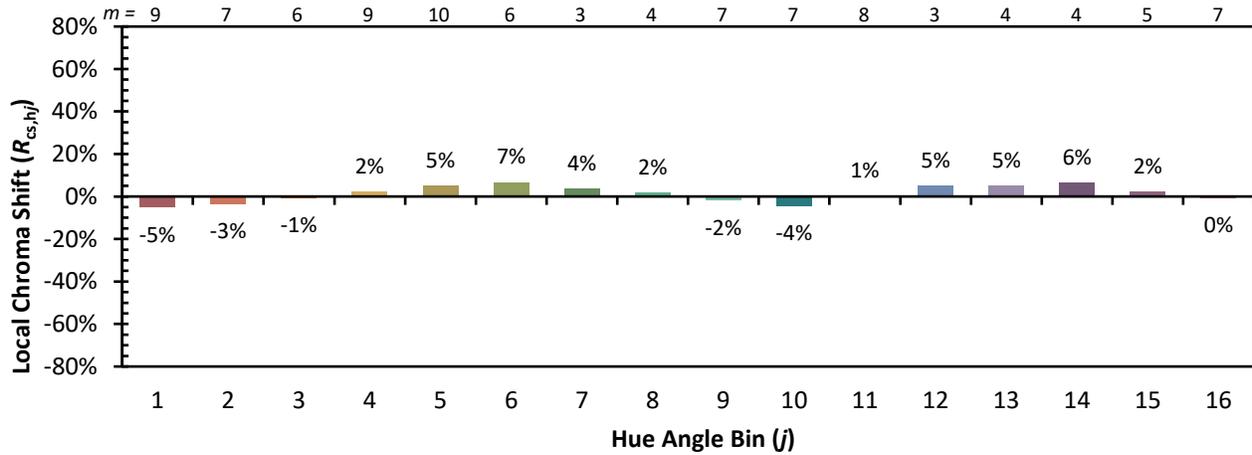


Individual Sample Fidelity Index ($R_{f,i}$)

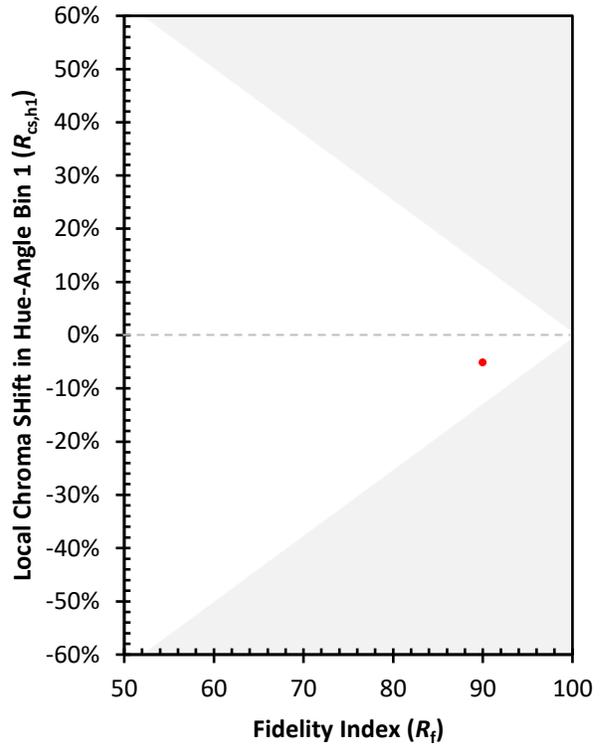
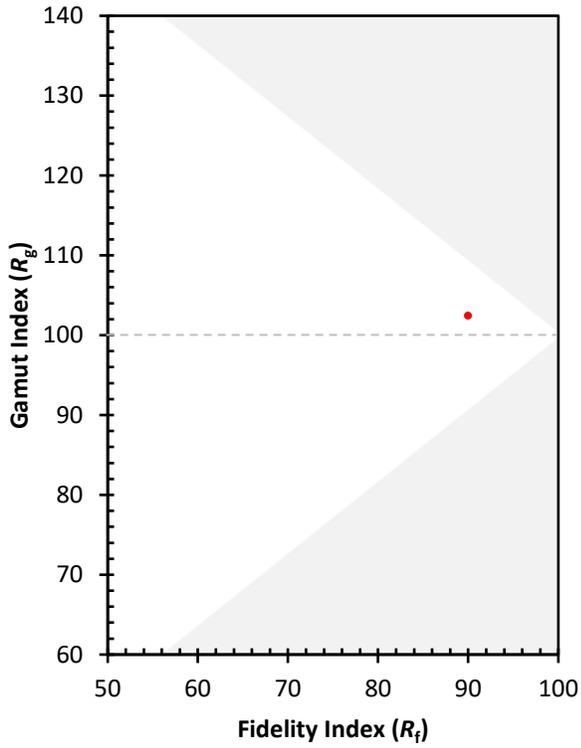
CES01 = 86	CES26 = 87	CES51 = 95	CES76 = 82
CES02 = 62	CES27 = 96	CES52 = 94	CES77 = 89
CES03 = 31	CES28 = 93	CES53 = 90	CES78 = 79
CES04 = 70	CES29 = 84	CES54 = 98	CES79 = 93
CES05 = 50	CES30 = 89	CES55 = 97	CES80 = 91
CES06 = 51	CES31 = 85	CES56 = 91	CES81 = 81
CES07 = 43	CES32 = 80	CES57 = 90	CES82 = 96
CES08 = 41	CES33 = 86	CES58 = 91	CES83 = 94
CES09 = 29	CES34 = 88	CES59 = 98	CES84 = 95
CES10 = 75	CES35 = 93	CES60 = 97	CES85 = 84
CES11 = 58	CES36 = 93	CES61 = 96	CES86 = 82
CES12 = 64	CES37 = 91	CES62 = 98	CES87 = 90
CES13 = 43	CES38 = 95	CES63 = 91	CES88 = 94
CES14 = 74	CES39 = 96	CES64 = 93	CES89 = 83
CES15 = 71	CES40 = 92	CES65 = 90	CES90 = 94
CES16 = 47	CES41 = 93	CES66 = 91	CES91 = 83
CES17 = 49	CES42 = 87	CES67 = 91	CES92 = 80
CES18 = 56	CES43 = 85	CES68 = 91	CES93 = 89
CES19 = 71	CES44 = 99	CES69 = 93	CES94 = 75
CES20 = 66	CES45 = 90	CES70 = 87	CES95 = 85
CES21 = 86	CES46 = 90	CES71 = 85	CES96 = 91
CES22 = 78	CES47 = 86	CES72 = 95	CES97 = 90
CES23 = 91	CES48 = 91	CES73 = 80	CES98 = 91
CES24 = 90	CES49 = 88	CES74 = 94	CES99 = 92
CES25 = 71	CES50 = 94	CES75 = 84	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)