Signify Classified - Internal

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

Scaled data based on original data using

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

Test Report Prepared for

Cooper Lighting Solutions

Brand: METALUX

Report Number: P1590896

Luminaire Tested: 14CGTX-30-L93050-W2A-3000K

Issue Date: 9/7/2026

Report Generated By 670265710 / DESKTOP-98SHLC4

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

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1590896
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	9/7/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	14CGTX-30-L93050-W2A-3000K
Description:	1X4 3000 LUMEN CGTX TROFFER WITH VividTune LEDS AT 3000K CCT
Light Source:	3000K CCT, 90 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3126.3 lumens
Efficiency:	N/A
Efficacy:	104.6 lumens/watt
Spacing Criteria (0/90/45):	1.26 / 1.26 / 1.38
Luminous Opening:	Rectangular (W 0.83' x L: 3.85' x H: 0')
CIE Type:	Direct
Input Watts (W):	29.9
Input Voltage (V):	120
Input Current (Ain):	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

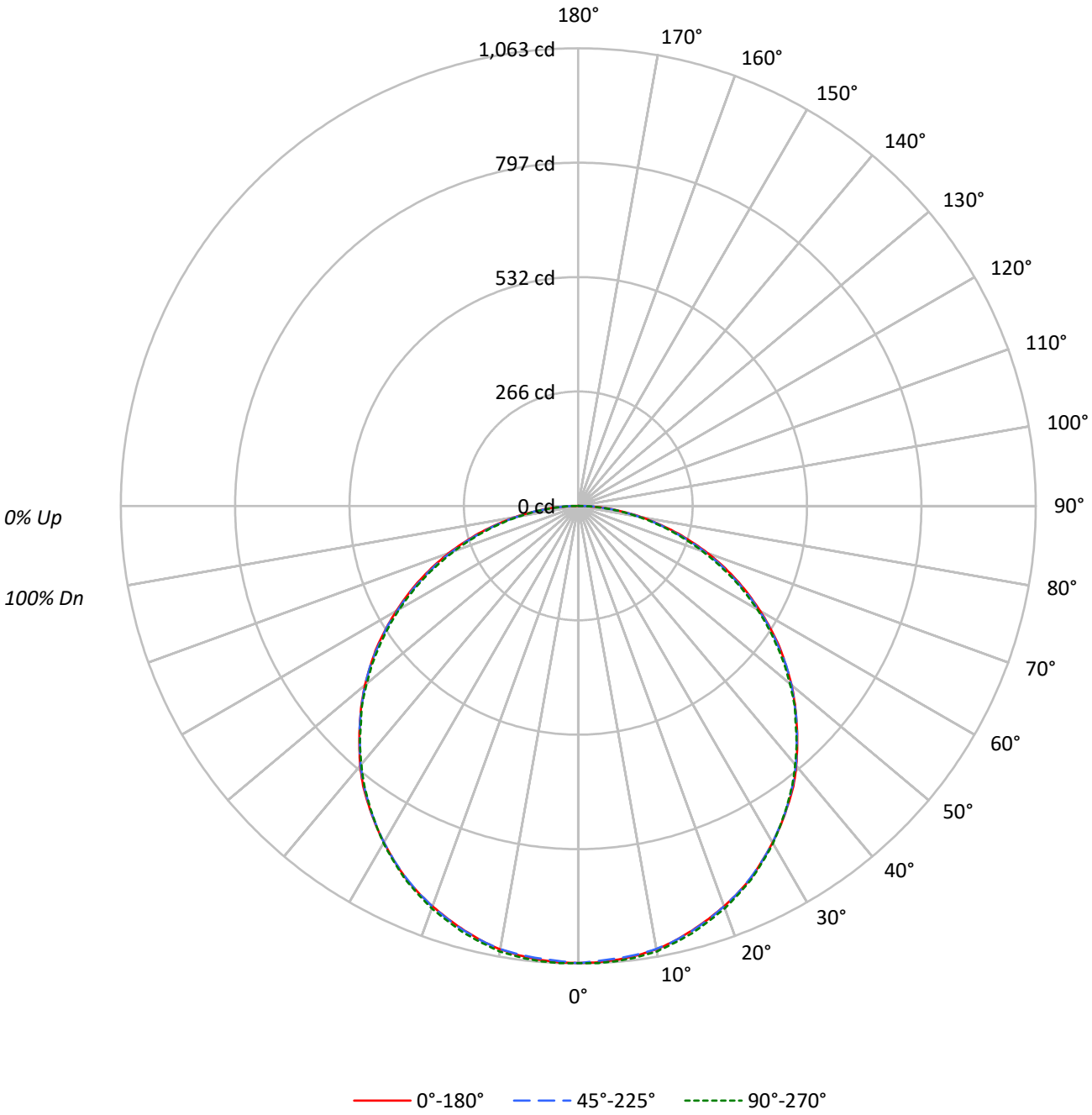


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Scaled Data Report

TEST NUMBER: P1590896
CATALOG NUMBER: 14CGTX-30-L93050-W2A-3000K

Luminous Intensity Polar Plot



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TEST NUMBER: P1590896
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	94	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	26	37	30	25	36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3559	3559	3559
5°	3559	3549	3569
10°	3560	3556	3577
15°	3542	3546	3563
20°	3531	3531	3549
25°	3520	3517	3531
30°	3494	3494	3502
35°	3473	3469	3465
40°	3447	3443	3430
45°	3403	3403	3384
50°	3373	3368	3342
55°	3336	3313	3284
60°	3271	3244	3217
65°	3212	3164	3124
70°	3126	3067	2998
75°	3004	2913	2849
80°	2856	2741	2663
85°	2615	2499	2346

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
Vertical Angle: 45°
Luminance: 3412 cd/sqm

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Scaled Data Report

TEST NUMBER: P1590896
CATALOG NUMBER: 14CGTX-30-L93050-W2A-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.6	3.2
10°-20°	288.9	9.2
20°-30°	438.9	14.0
30°-40°	530.8	17.0
40°-50°	553.9	17.7
50°-60°	506.8	16.2
60°-70°	394.8	12.6
70°-80°	239.2	7.7
80°-90°	72.4	2.3
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°-30°	828.4	26.5
0°-40°	1359.2	43.5
0°-60°	2420.0	77.4
0°-90°	3126.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3126.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1062	1062	1062	1062	1062	
5°	1058	1058	1055	1058	1061	101
15°	1021	1023	1022	1025	1027	288
25°	952	951	951	955	955	438
35°	849	850	848	848	847	531
45°	718	720	718	716	714	554
55°	571	573	567	564	562	509
65°	405	404	399	394	394	400
75°	232	230	225	221	220	245
85°	68	66	65	61	61	76
90°	0	0	0	0	0	

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TEST NUMBER: P1590896
CATALOG NUMBER: 14CGTX-30-L93050-W2A-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1062	1062	1062	1062	*1062*
2.5°	*1061*	*1060*	*1058*	*1062*	*1063*
5°	1058	1058	1055	1058	*1061*
7.5°	1053	1052	1051	1055	*1057*
10°	1046	1046	1045	1048	*1051*
12.5°	1035	1035	1035	1039	*1039*
15°	1021	1023	1022	1025	*1027*
17.5°	1006	1008	1007	1011	*1011*
20°	990	992	990	994	*995*
22.5°	972	973	972	975	*975*
25°	952	951	951	955	*955*
27.5°	928	928	928	931	*930*
30°	903	904	903	905	*905*
32.5°	877	877	876	878	*876*
35°	849	850	848	848	*847*
37.5°	821	819	818	817	*817*
40°	788	788	787	786	*784*
42.5°	753	756	751	751	*751*
45°	718	720	718	716	*714*
47.5°	683	686	682	681	*681*
50°	647	649	646	641	*641*
52.5°	608	610	609	603	*603*
55°	571	573	567	564	*562*
57.5°	529	531	528	522	*522*
60°	488	489	484	481	*480*
62.5°	447	446	443	437	*437*
65°	405	404	399	394	*394*
67.5°	362	360	357	350	*349*
70°	319	318	313	307	*306*
72.5°	275	274	270	264	*263*
75°	232	230	225	221	*220*
77.5°	189	188	185	181	*179*
80°	148	146	142	139	*138*
82.5°	106	106	104	99	*99*
85°	68	66	65	61	*61*
87.5°	30	30	28	26	*25*
90°	0	0	0	0	*0*

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TEST NUMBER: P1590896
CATALOG NUMBER: 14CGTX-30-L93050-W2A-3000K

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	16.40	18.06	16.76	18.37	18.68	16.28	17.94	16.65	18.26	18.57
	3H	18.33	19.84	18.71	20.16	20.52	18.16	19.67	18.54	19.99	20.35
	4H	19.09	20.51	19.49	20.86	21.23	18.89	20.31	19.29	20.66	21.03
	6H	19.69	21.01	20.10	21.37	21.76	19.46	20.78	19.87	21.14	21.53
	8H	19.90	21.16	20.32	21.55	21.95	19.65	20.91	20.08	21.30	21.70
	12H	20.05	21.26	20.48	21.64	22.07	19.79	20.99	20.22	21.38	21.80
4H	2H	17.05	18.47	17.45	18.82	19.19	16.96	18.38	17.36	18.73	19.10
	3H	19.22	20.41	19.62	20.81	21.21	19.07	20.26	19.48	20.66	21.06
	4H	20.11	21.20	20.55	21.61	22.05	19.93	21.01	20.36	21.43	21.86
	6H	20.86	21.80	21.31	22.24	22.70	20.64	21.58	21.09	22.02	22.48
	8H	21.12	22.01	21.58	22.45	22.92	20.88	21.77	21.34	22.21	22.68
	12H	21.32	22.13	21.80	22.60	23.07	21.06	21.86	21.54	22.34	22.81
8H	4H	20.46	21.35	20.92	21.79	22.25	20.30	21.19	20.76	21.63	22.09
	6H	21.34	22.08	21.83	22.56	23.04	21.14	21.88	21.63	22.37	22.84
	8H	21.69	22.36	22.20	22.86	23.34	21.46	22.13	21.97	22.63	23.12
	12H	21.98	22.57	22.49	23.06	23.62	21.73	22.32	22.23	22.81	23.36
12H	4H	20.50	21.30	20.98	21.78	22.24	20.35	21.15	20.83	21.62	22.09
	6H	21.41	22.08	21.91	22.58	23.06	21.22	21.88	21.72	22.39	22.87
	8H	21.82	22.41	22.33	22.90	23.46	21.61	22.20	22.11	22.69	23.25

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

Report Prepared for

Cooper Lighting Solutions

Metalux

Report Number: SP1-2512-631-41-R2

Test Date: 02/05/2026

Luminaire Tested: 22CGTX-50-L93050-W2A-3000K

Data in this report applies to families of products including 22CGTX

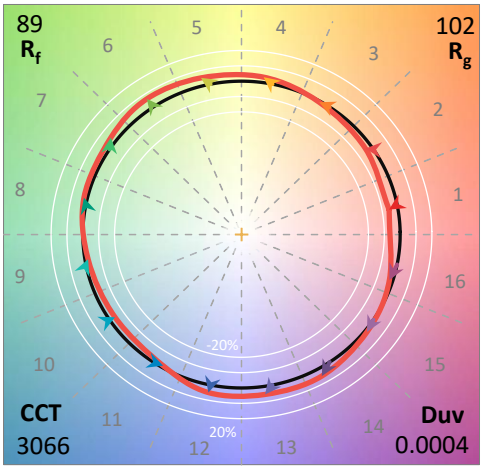
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Version: v7.05

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2512-631-41-R2
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	07/28/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Metalux
Catalog Number:	**22CGTX-50-L93050-W2A-3000K**
Description:	*THIS IS A REVISION OF REPORT SP1-2512-631-41-R2 TO UPDATE THE CATALOG INFORMATION* 2X2 5000 LUMEN HE CGTX TUNABLE WHITE FROM 3000K TO 5000K - 9.5 Volt

Spectral Parameters

CCT (K):	3066	CRI (Ra):	91.7		
CIE u':	0.2482	R1:	93.0	R9:	52.5
CIE v':	0.5206	R2:	94.0	R10:	85.0
Duv:	0.0004	R3:	94.3	R11:	94.8
CIE x:	0.4328	R4:	93.4	R12:	82.8
CIE y:	0.4036	R5:	92.4	R13:	92.9
CIE z:	0.1636	R6:	94.1	R14:	95.7
Peak Wavelength (nm):	630	R7:	91.5	R15:	87.8
Dominant Wavelength (nm):	582	R8:	80.7		
Purity:	51.0461				
Rf:	89.5				
Rg:	102				



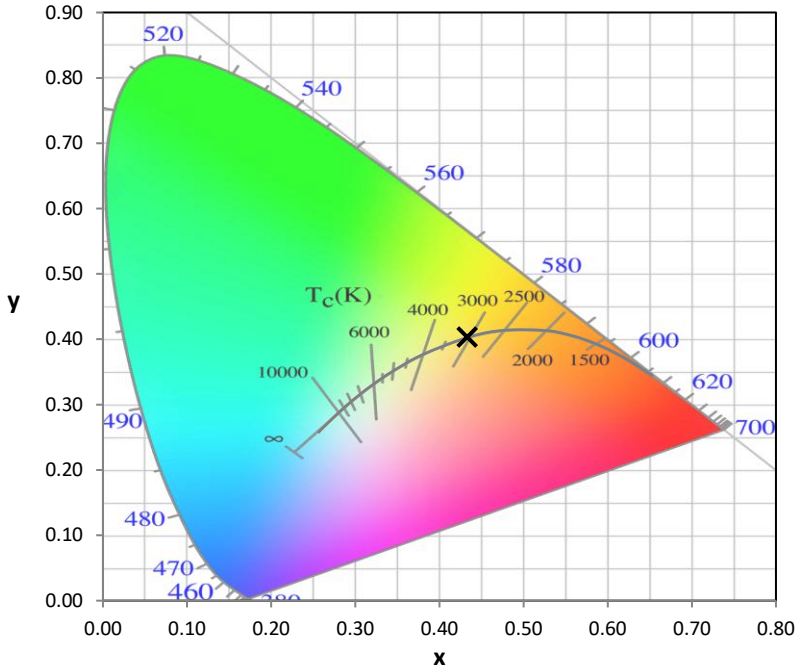
Test Conditions

Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	25.1

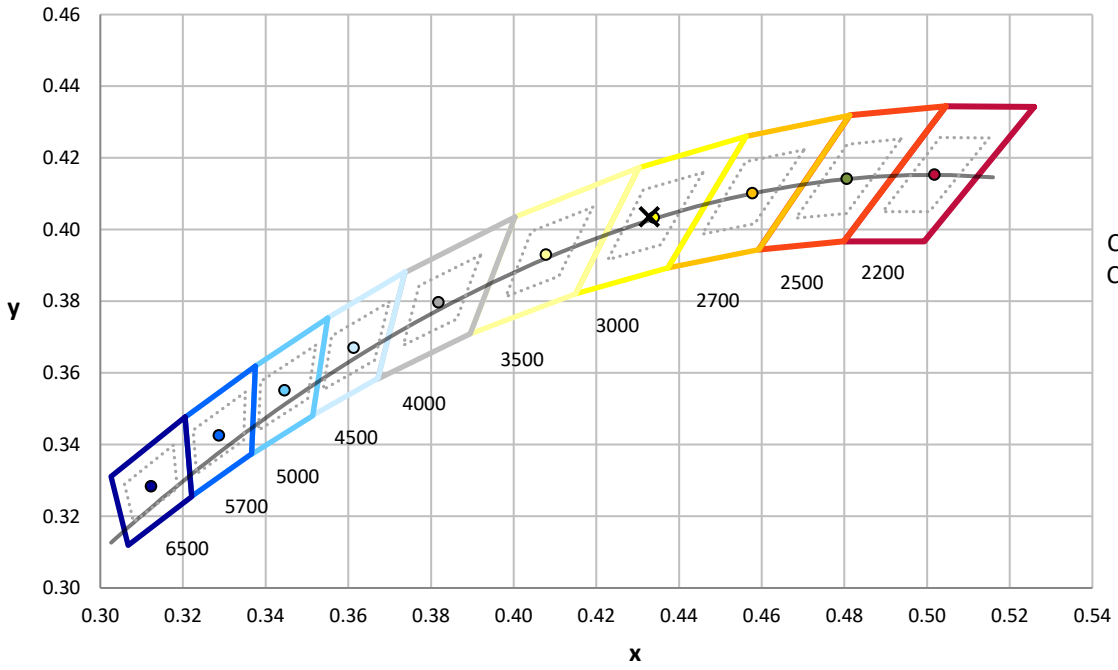
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	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: SP1-2512-631-41-R2

CIE 1931 Chromaticity Diagram



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

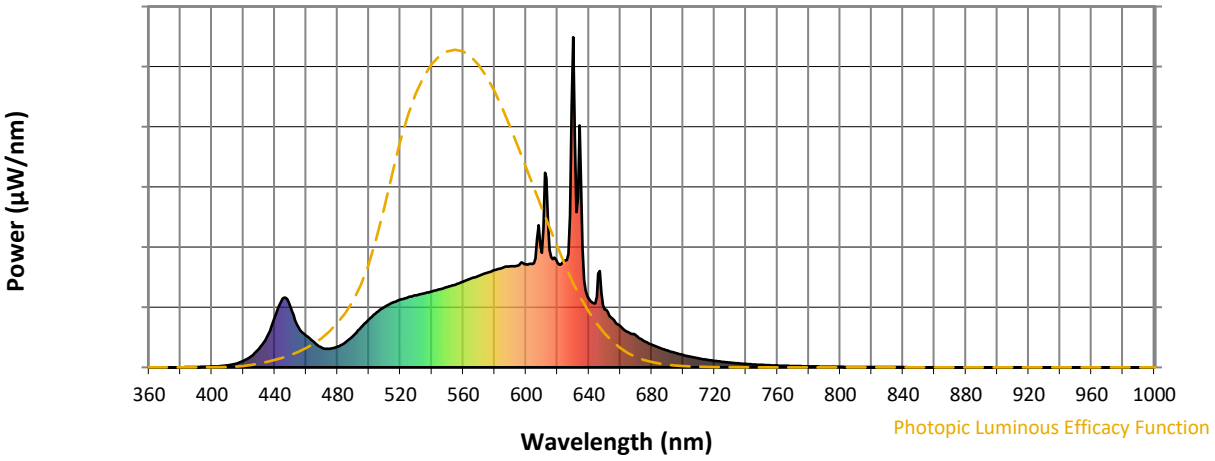


CCT = 3066K
CIE x = 0.4328
CIE y = 0.4036
Duv = 0.0004

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2512-631-41-R2

Photopic Flux vs. Wavelength

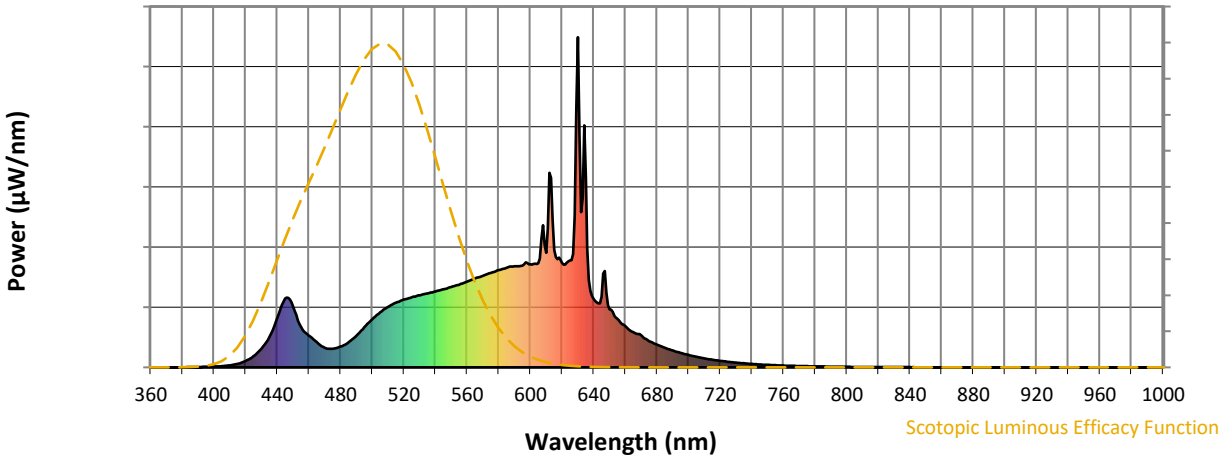


Photopic Lumens: NR

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	96	NR	620	317	NR	750	8	NR	880	0	NR
365	0	NR	495	121	NR	625	324	NR	755	7	NR	885	0	NR
370	0	NR	500	146	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	167	NR	635	572	NR	765	5	NR	895	0	NR
380	0	NR	510	183	NR	640	207	NR	770	4	NR	900	0	NR
385	1	NR	515	196	NR	645	215	NR	775	3	NR	905	0	NR
390	1	NR	520	205	NR	650	175	NR	780	3	NR	910	0	NR
395	2	NR	525	212	NR	655	147	NR	785	3	NR	915	0	NR
400	3	NR	530	218	NR	660	125	NR	790	2	NR	920	0	NR
405	4	NR	535	224	NR	665	106	NR	795	2	NR	925	0	NR
410	6	NR	540	230	NR	670	97	NR	800	2	NR	930	0	NR
415	11	NR	545	236	NR	675	80	NR	805	1	NR	935	0	NR
420	19	NR	550	244	NR	680	69	NR	810	1	NR	940	0	NR
425	34	NR	555	250	NR	685	59	NR	815	1	NR	945	0	NR
430	57	NR	560	260	NR	690	51	NR	820	1	NR	950	0	NR
435	92	NR	565	269	NR	695	44	NR	825	1	NR	955	0	NR
440	151	NR	570	277	NR	700	37	NR	830	1	NR	960	0	NR
445	208	NR	575	286	NR	705	32	NR	835	1	NR	965	0	NR
450	184	NR	580	294	NR	710	27	NR	840	1	NR	970	0	NR
455	122	NR	585	301	NR	715	23	NR	845	0	NR	975	0	NR
460	96	NR	590	307	NR	720	20	NR	850	0	NR	980	0	NR
465	76	NR	595	308	NR	725	17	NR	855	0	NR	985	0	NR
470	59	NR	600	312	NR	730	14	NR	860	0	NR	990	0	NR
475	57	NR	605	315	NR	735	12	NR	865	0	NR	995	0	NR
480	63	NR	610	347	NR	740	10	NR	870	0	NR	1000	0	NR
485	76	NR	615	356	NR	745	9	NR	875	0	NR			

REPORT NUMBER: SP1-2512-631-41-R2

Scotopic Flux vs. Wavelength

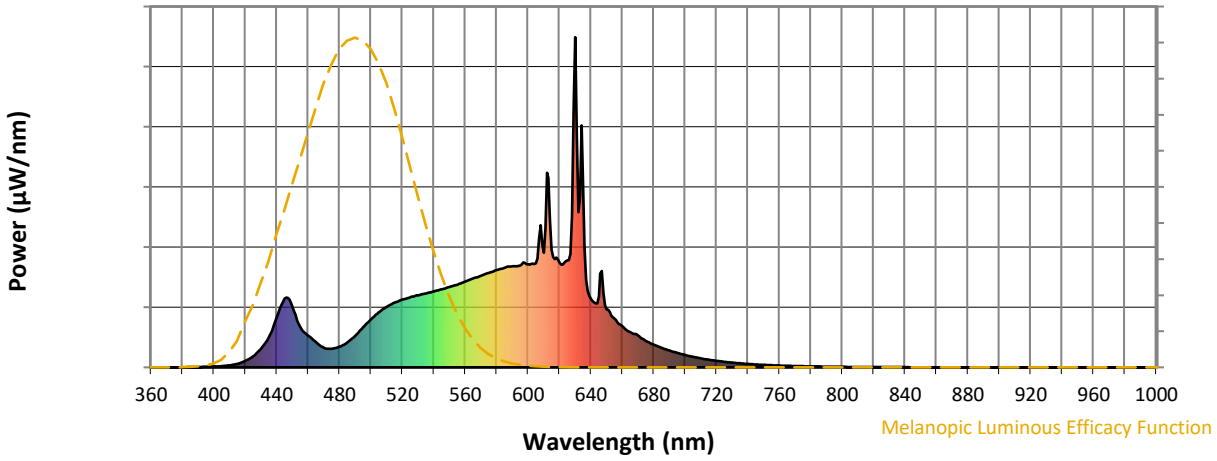


Scotopic Lumens: NR **S/P: 1.41**

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	96	NR	620	317	NR	750	8	NR	880	0	NR
365	0	NR	495	121	NR	625	324	NR	755	7	NR	885	0	NR
370	0	NR	500	146	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	167	NR	635	572	NR	765	5	NR	895	0	NR
380	0	NR	510	183	NR	640	207	NR	770	4	NR	900	0	NR
385	1	NR	515	196	NR	645	215	NR	775	3	NR	905	0	NR
390	1	NR	520	205	NR	650	175	NR	780	3	NR	910	0	NR
395	2	NR	525	212	NR	655	147	NR	785	3	NR	915	0	NR
400	3	NR	530	218	NR	660	125	NR	790	2	NR	920	0	NR
405	4	NR	535	224	NR	665	106	NR	795	2	NR	925	0	NR
410	6	NR	540	230	NR	670	97	NR	800	2	NR	930	0	NR
415	11	NR	545	236	NR	675	80	NR	805	1	NR	935	0	NR
420	19	NR	550	244	NR	680	69	NR	810	1	NR	940	0	NR
425	34	NR	555	250	NR	685	59	NR	815	1	NR	945	0	NR
430	57	NR	560	260	NR	690	51	NR	820	1	NR	950	0	NR
435	92	NR	565	269	NR	695	44	NR	825	1	NR	955	0	NR
440	151	NR	570	277	NR	700	37	NR	830	1	NR	960	0	NR
445	208	NR	575	286	NR	705	32	NR	835	1	NR	965	0	NR
450	184	NR	580	294	NR	710	27	NR	840	1	NR	970	0	NR
455	122	NR	585	301	NR	715	23	NR	845	0	NR	975	0	NR
460	96	NR	590	307	NR	720	20	NR	850	0	NR	980	0	NR
465	76	NR	595	308	NR	725	17	NR	855	0	NR	985	0	NR
470	59	NR	600	312	NR	730	14	NR	860	0	NR	990	0	NR
475	57	NR	605	315	NR	735	12	NR	865	0	NR	995	0	NR
480	63	NR	610	347	NR	740	10	NR	870	0	NR	1000	0	NR
485	76	NR	615	356	NR	745	9	NR	875	0	NR			

REPORT NUMBER: SP1-2512-631-41-R2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.7**

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	96	NR	620	317	NR	750	8	NR	880	0	NR
365	0	NR	495	121	NR	625	324	NR	755	7	NR	885	0	NR
370	0	NR	500	146	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	167	NR	635	572	NR	765	5	NR	895	0	NR
380	0	NR	510	183	NR	640	207	NR	770	4	NR	900	0	NR
385	1	NR	515	196	NR	645	215	NR	775	3	NR	905	0	NR
390	1	NR	520	205	NR	650	175	NR	780	3	NR	910	0	NR
395	2	NR	525	212	NR	655	147	NR	785	3	NR	915	0	NR
400	3	NR	530	218	NR	660	125	NR	790	2	NR	920	0	NR
405	4	NR	535	224	NR	665	106	NR	795	2	NR	925	0	NR
410	6	NR	540	230	NR	670	97	NR	800	2	NR	930	0	NR
415	11	NR	545	236	NR	675	80	NR	805	1	NR	935	0	NR
420	19	NR	550	244	NR	680	69	NR	810	1	NR	940	0	NR
425	34	NR	555	250	NR	685	59	NR	815	1	NR	945	0	NR
430	57	NR	560	260	NR	690	51	NR	820	1	NR	950	0	NR
435	92	NR	565	269	NR	695	44	NR	825	1	NR	955	0	NR
440	151	NR	570	277	NR	700	37	NR	830	1	NR	960	0	NR
445	208	NR	575	286	NR	705	32	NR	835	1	NR	965	0	NR
450	184	NR	580	294	NR	710	27	NR	840	1	NR	970	0	NR
455	122	NR	585	301	NR	715	23	NR	845	0	NR	975	0	NR
460	96	NR	590	307	NR	720	20	NR	850	0	NR	980	0	NR
465	76	NR	595	308	NR	725	17	NR	855	0	NR	985	0	NR
470	59	NR	600	312	NR	730	14	NR	860	0	NR	990	0	NR
475	57	NR	605	315	NR	735	12	NR	865	0	NR	995	0	NR
480	63	NR	610	347	NR	740	10	NR	870	0	NR	1000	0	NR
485	76	NR	615	356	NR	745	9	NR	875	0	NR			

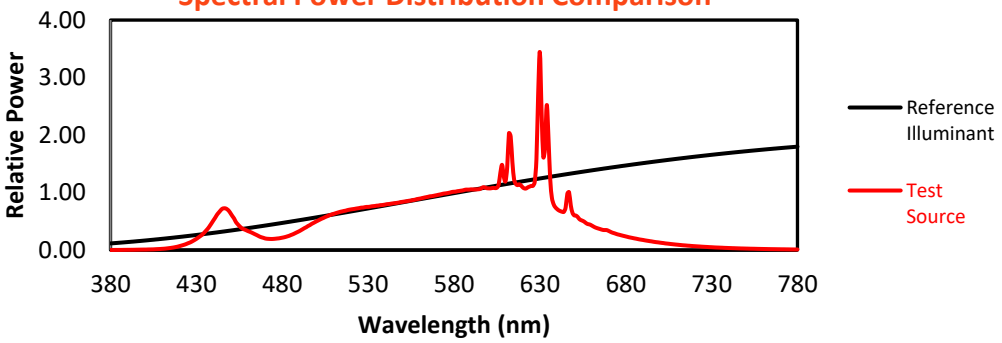
REPORT NUMBER: SP1-2512-631-41-R2

TM-30-18

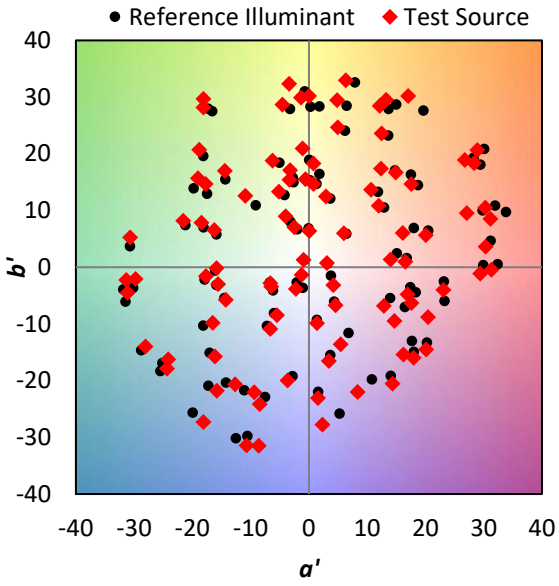
Summary

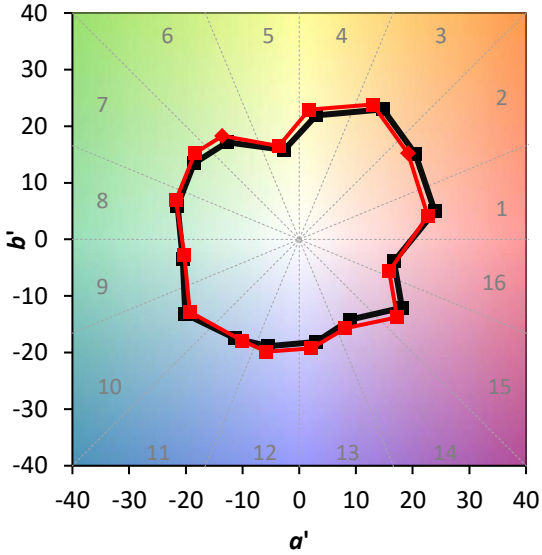
R_f = 89.5
R_g = 102
CIE R_a = 91.7
R_9 = 52.5

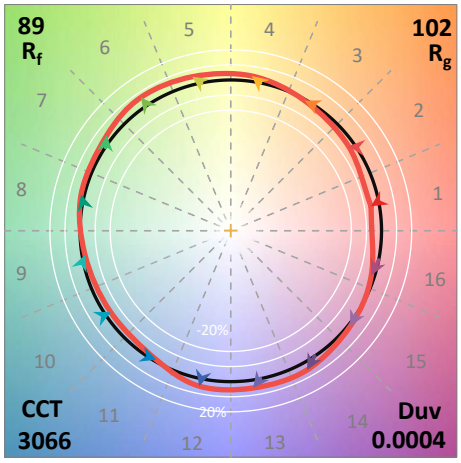
Spectral Power Distribution Comparison

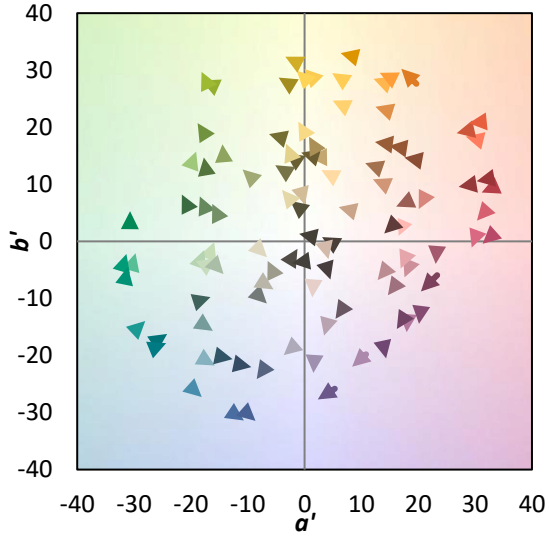


Color Vector Graphics







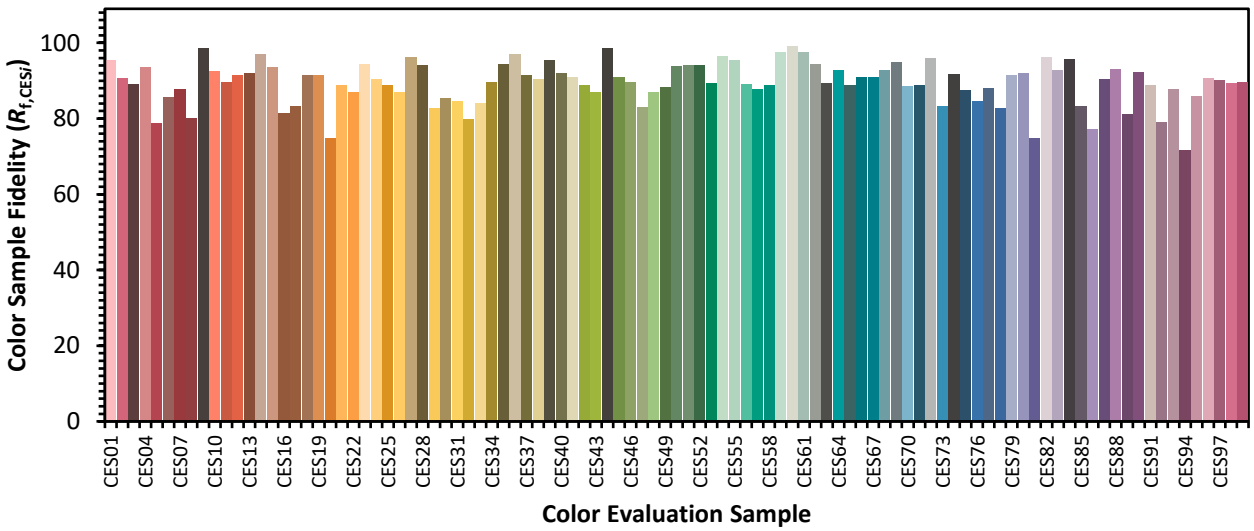


REPORT NUMBER: SP1-2512-631-41-R2

TM-30-18

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

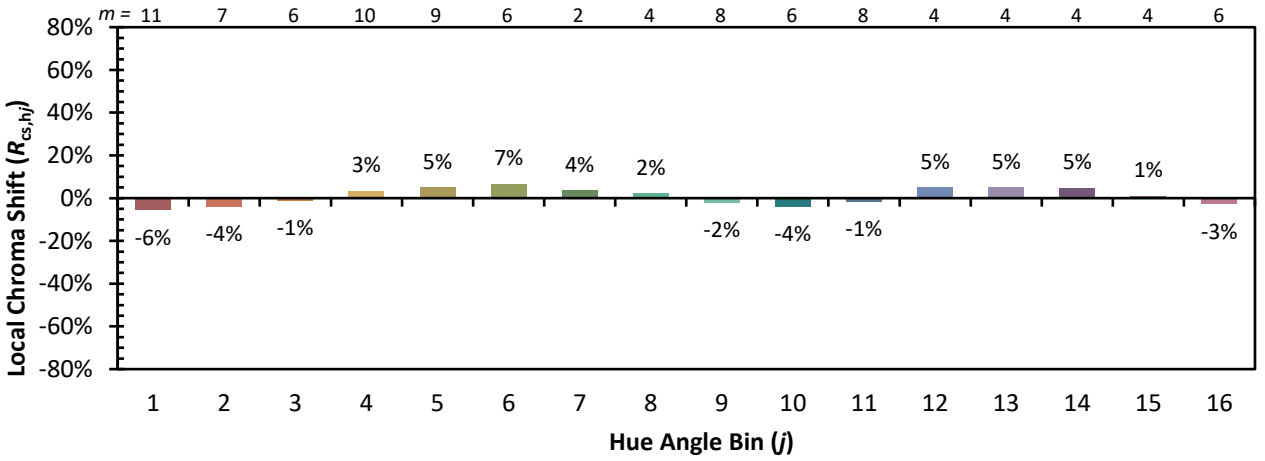
CES01 = 86	CES26 = 87	CES51 = 94	CES76 = 85
CES02 = 63	CES27 = 96	CES52 = 94	CES77 = 88
CES03 = 32	CES28 = 94	CES53 = 89	CES78 = 83
CES04 = 70	CES29 = 83	CES54 = 97	CES79 = 92
CES05 = 50	CES30 = 85	CES55 = 95	CES80 = 92
CES06 = 51	CES31 = 85	CES56 = 89	CES81 = 75
CES07 = 43	CES32 = 80	CES57 = 88	CES82 = 96
CES08 = 42	CES33 = 84	CES58 = 89	CES83 = 93
CES09 = 29	CES34 = 90	CES59 = 98	CES84 = 96
CES10 = 76	CES35 = 94	CES60 = 99	CES85 = 83
CES11 = 58	CES36 = 97	CES61 = 97	CES86 = 77
CES12 = 65	CES37 = 91	CES62 = 94	CES87 = 91
CES13 = 44	CES38 = 90	CES63 = 89	CES88 = 93
CES14 = 74	CES39 = 95	CES64 = 93	CES89 = 81
CES15 = 72	CES40 = 92	CES65 = 89	CES90 = 92
CES16 = 48	CES41 = 91	CES66 = 91	CES91 = 89
CES17 = 50	CES42 = 89	CES67 = 91	CES92 = 79
CES18 = 57	CES43 = 87	CES68 = 93	CES93 = 88
CES19 = 72	CES44 = 99	CES69 = 95	CES94 = 72
CES20 = 67	CES45 = 91	CES70 = 89	CES95 = 86
CES21 = 86	CES46 = 90	CES71 = 89	CES96 = 91
CES22 = 79	CES47 = 83	CES72 = 96	CES97 = 90
CES23 = 92	CES48 = 87	CES73 = 83	CES98 = 89
CES24 = 91	CES49 = 88	CES74 = 92	CES99 = 90
CES25 = 72	CES50 = 94	CES75 = 87	

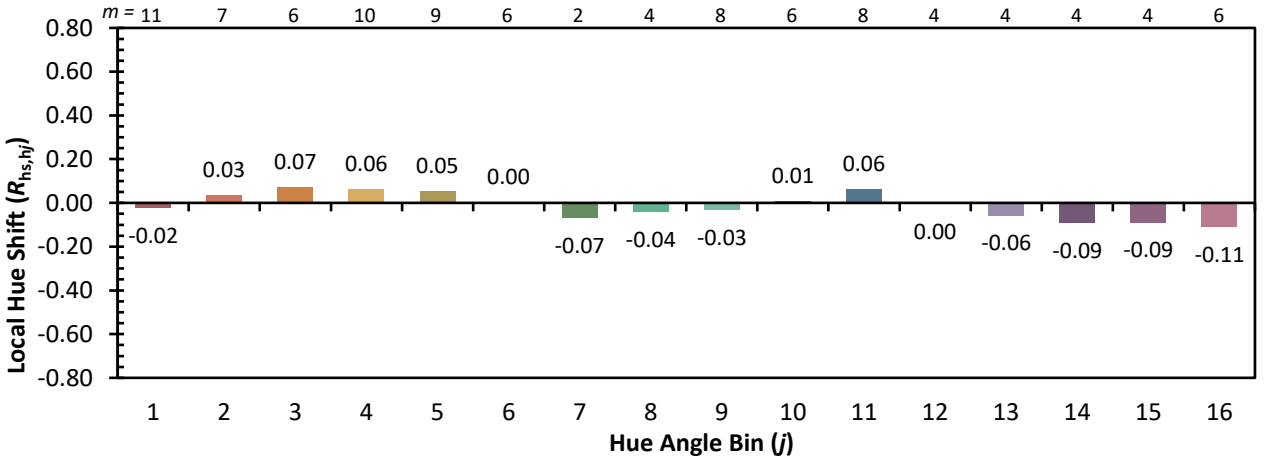


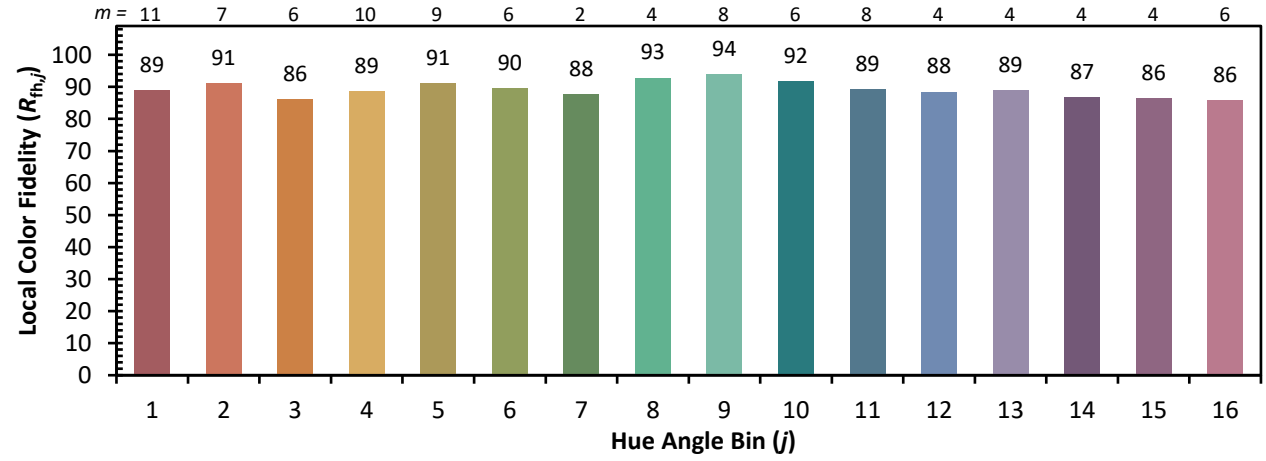
REPORT NUMBER: SP1-2512-631-41-R2

TM-30-18

Color Rendition by Hue-Angle Bin



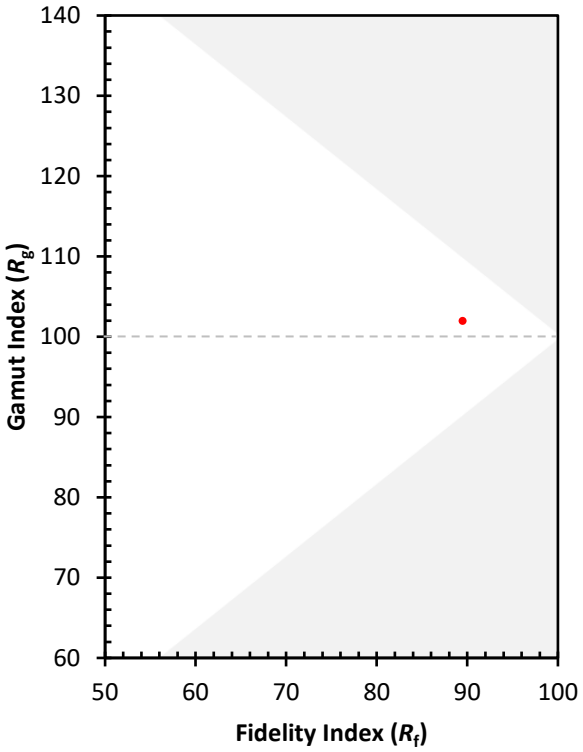


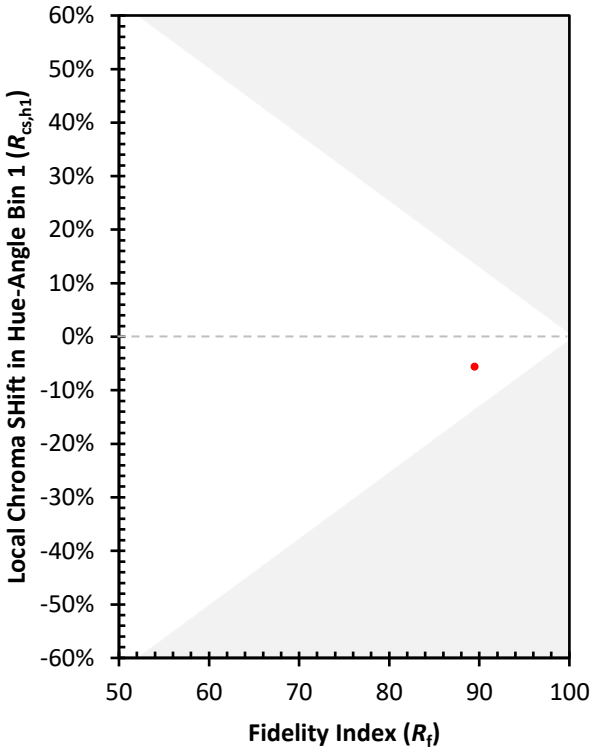


REPORT NUMBER: SP1-2512-631-41-R2

TM-30-18

Measure Comparisons





(END OF REPORT)