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: P1590961

Luminaire Tested: 24CGTX-65-L93050-W2A2-3000K

Issue Date: 9/7/2026

Report Generated By 670265710 / DESKTOP-98SHLC4

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

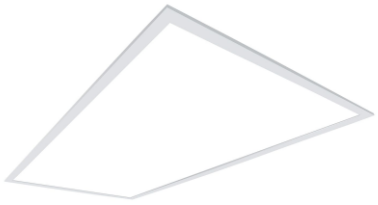
Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1590961
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	9/7/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	24CGTX-65-L93050-W2A2-3000K
Description:	2X4 6500 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:	7016.7 lumens
Efficiency:	N/A
Efficacy:	109.3 lumens/watt
Spacing Criteria (0/90/45):	1.28 / 1.27 / 1.39
Luminous Opening:	Rectangular (W 1.81' x L: 3.83' x H: 0')
CIE Type:	Direct
Input Watts (W):	64.2
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

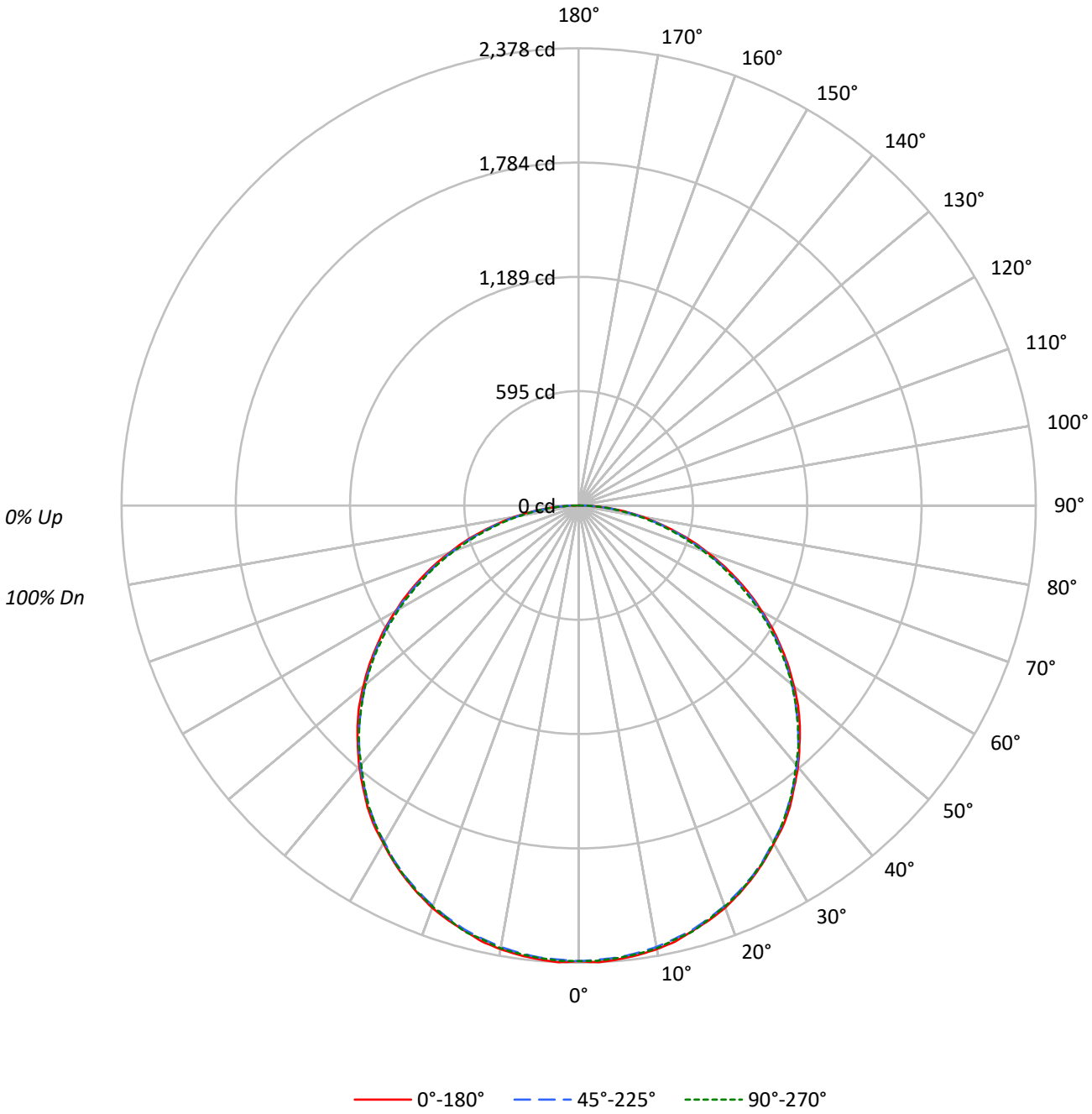


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Scaled Data Report

TEST NUMBER: P1590961
CATALOG NUMBER: 24CGTX-65-L93050-W2A2-3000K

Luminous Intensity Polar Plot



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TEST NUMBER: P1590961
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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	93	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	57
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	62	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	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3672	3672	3672
5°	3686	3670	3673
10°	3686	3669	3680
15°	3673	3665	3679
20°	3672	3655	3660
25°	3655	3643	3646
30°	3633	3617	3624
35°	3622	3597	3605
40°	3590	3574	3559
45°	3565	3534	3534
50°	3524	3492	3488
55°	3471	3446	3417
60°	3408	3387	3346
65°	3336	3274	3233
70°	3221	3162	3107
75°	3107	3029	2933
80°	2989	2855	2739
85°	2720	2595	2524

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3565 cd/sqm

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Scaled Data Report

TEST NUMBER: P1590961
CATALOG NUMBER: 24CGTX-65-L93050-W2A2-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.6	3.2
10°-20°	645.5	9.2
20°-30°	982.4	14.0
30°-40°	1191.5	17.0
40°-50°	1245.8	17.8
50°-60°	1140.0	16.2
60°-70°	885.9	12.6
70°-80°	535.1	7.6
80°-90°	166.0	2.4
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°	1852.4	26.4
0°-40°	3043.9	43.4
0°-60°	5429.7	77.4
0°-90°	7016.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7016.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2370	2370	2370	2370	2370	
5°	2370	2363	2360	2360	2362	225
15°	2290	2290	2285	2285	2294	647
25°	2138	2132	2131	2126	2133	985
35°	1915	1906	1902	1902	1906	1197
45°	1627	1617	1613	1609	1613	1254
55°	1285	1284	1276	1268	1265	1150
65°	910	903	893	884	882	900
75°	519	516	506	496	490	550
85°	153	154	146	143	142	173
90°	0	0	0	0	0	

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TEST NUMBER: P1590961
CATALOG NUMBER: 24CGTX-65-L93050-W2A2-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*2370*	2370	2370	2370	2370
2.5°	*2378*	*2370*	*2364*	*2362*	*2370*
5°	*2370*	2363	2360	2360	2362
7.5°	*2359*	2353	2347	2346	2352
10°	*2343*	2332	2332	2330	2339
12.5°	*2323*	2314	2309	2311	2312
15°	*2290*	2290	2285	2285	2294
17.5°	*2261*	2255	2252	2255	2255
20°	*2227*	2218	2217	2213	2220
22.5°	*2184*	2179	2175	2176	2181
25°	*2138*	2132	2131	2126	2133
27.5°	*2087*	2082	2080	2079	2084
30°	*2031*	2026	2022	2024	2026
32.5°	*1978*	1969	1969	1965	1968
35°	*1915*	1906	1902	1902	1906
37.5°	*1843*	1840	1836	1833	1833
40°	*1775*	1769	1767	1764	1760
42.5°	*1700*	1696	1691	1690	1692
45°	*1627*	1617	1613	1609	1613
47.5°	*1549*	1539	1531	1529	1531
50°	*1462*	1456	1449	1446	1447
52.5°	*1376*	1367	1364	1361	1359
55°	*1285*	1284	1276	1268	1265
57.5°	*1197*	1192	1183	1177	1175
60°	*1100*	1098	1093	1084	1080
62.5°	*1008*	1001	996	983	981
65°	*910*	903	893	884	882
67.5°	*813*	805	797	787	787
70°	*711*	709	698	689	686
72.5°	*619*	612	602	590	587
75°	*519*	516	506	496	490
77.5°	*423*	422	414	401	398
80°	*335*	329	320	311	307
82.5°	*243*	240	232	225	225
85°	*153*	154	146	143	142
87.5°	*73*	71	69	68	69
90°	*0*	0	0	0	0

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TEST NUMBER: P1590961
CATALOG NUMBER: 24CGTX-65-L93050-W2A2-3000K

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	16.53	18.19	16.90	18.51	18.82	16.44	18.10	16.80	18.41	18.73
	3H	18.45	19.96	18.83	20.28	20.64	18.31	19.82	18.69	20.14	20.50
	4H	19.21	20.63	19.61	20.98	21.36	19.03	20.45	19.43	20.80	21.17
	6H	19.82	21.13	20.23	21.50	21.89	19.59	20.90	20.00	21.27	21.66
	8H	20.03	21.29	20.46	21.68	22.08	19.78	21.04	20.20	21.43	21.83
	12H	20.19	21.39	20.61	21.78	22.20	19.92	21.13	20.35	21.51	21.94
4H	2H	17.18	18.60	17.58	18.95	19.32	17.11	18.53	17.50	18.87	19.25
	3H	19.33	20.53	19.74	20.92	21.32	19.20	20.40	19.61	20.80	21.20
	4H	20.23	21.31	20.66	21.73	22.16	20.06	21.14	20.49	21.56	21.99
	6H	20.98	21.93	21.43	22.37	22.82	20.75	21.70	21.20	22.14	22.60
	8H	21.25	22.14	21.71	22.58	23.05	21.00	21.89	21.46	22.33	22.80
	12H	21.46	22.26	21.94	22.74	23.20	21.20	22.00	21.67	22.47	22.94
8H	4H	20.57	21.46	21.03	21.91	22.37	20.42	21.31	20.88	21.75	22.22
	6H	21.46	22.20	21.95	22.69	23.16	21.25	22.00	21.74	22.48	22.96
	8H	21.82	22.49	22.33	22.99	23.48	21.59	22.25	22.09	22.76	23.24
	12H	22.12	22.71	22.63	23.20	23.76	21.86	22.46	22.37	22.94	23.50
12H	4H	20.62	21.42	21.10	21.89	22.36	20.47	21.28	20.95	21.75	22.22
	6H	21.53	22.20	22.04	22.70	23.19	21.33	22.00	21.84	22.51	22.99
	8H	21.96	22.55	22.46	23.04	23.60	21.73	22.32	22.24	22.81	23.37

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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

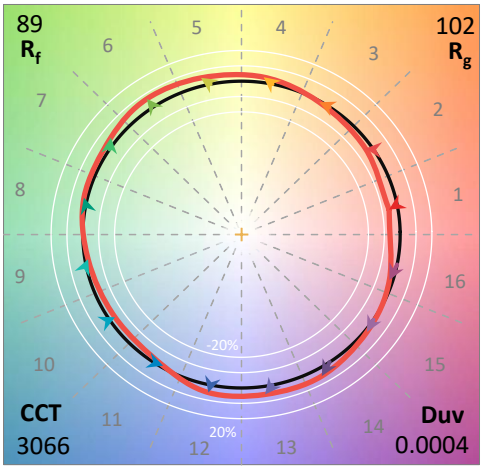
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

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				



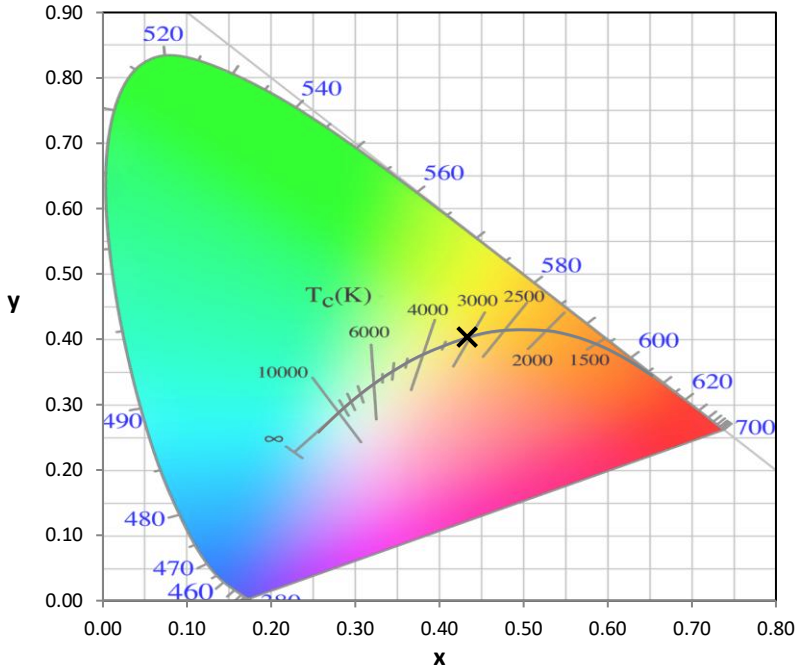
Test Conditions

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

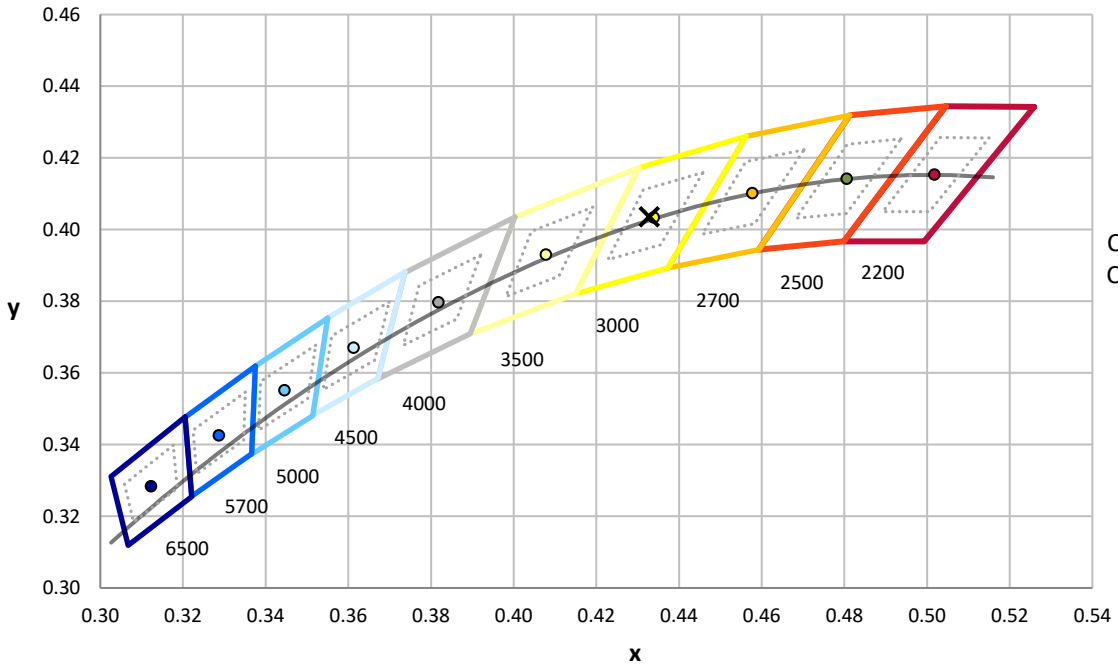
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

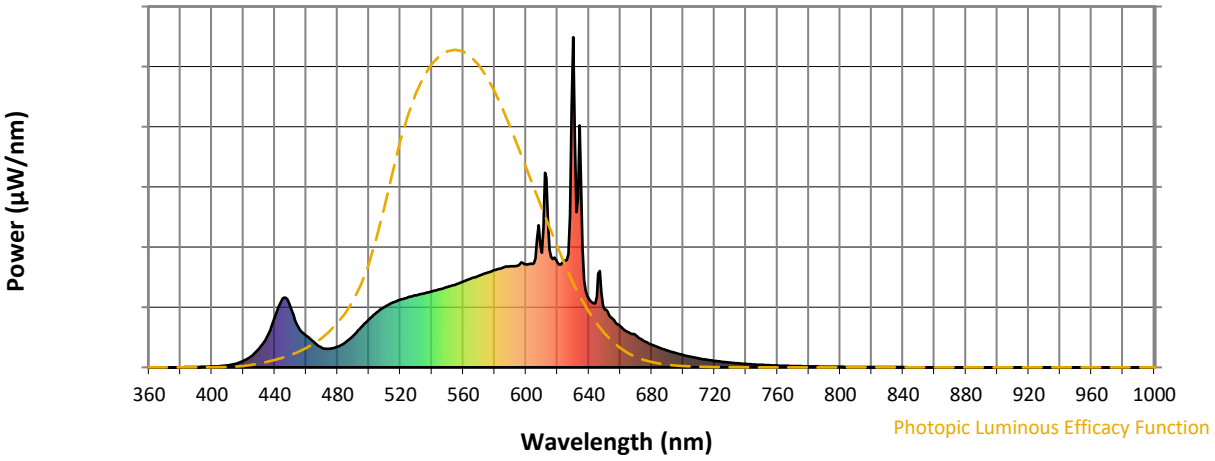


CCT = 3066K
CIE x = 0.4328
CIE y = 0.4036
Duv = 0.0004

Point lies inside the ANSI 3000K 4-step quadrangle

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

Photopic Flux vs. Wavelength

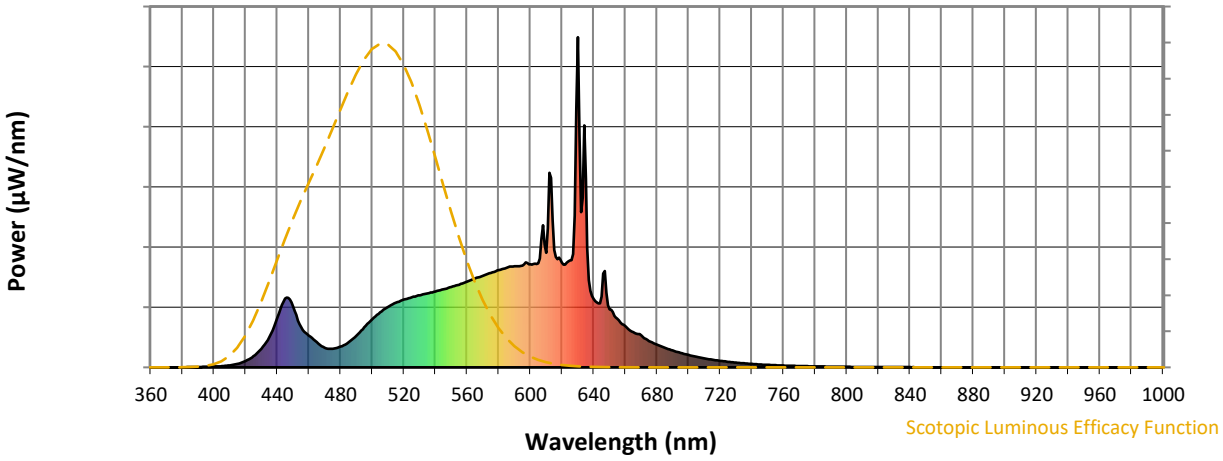


Photopic Lumens: NR

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

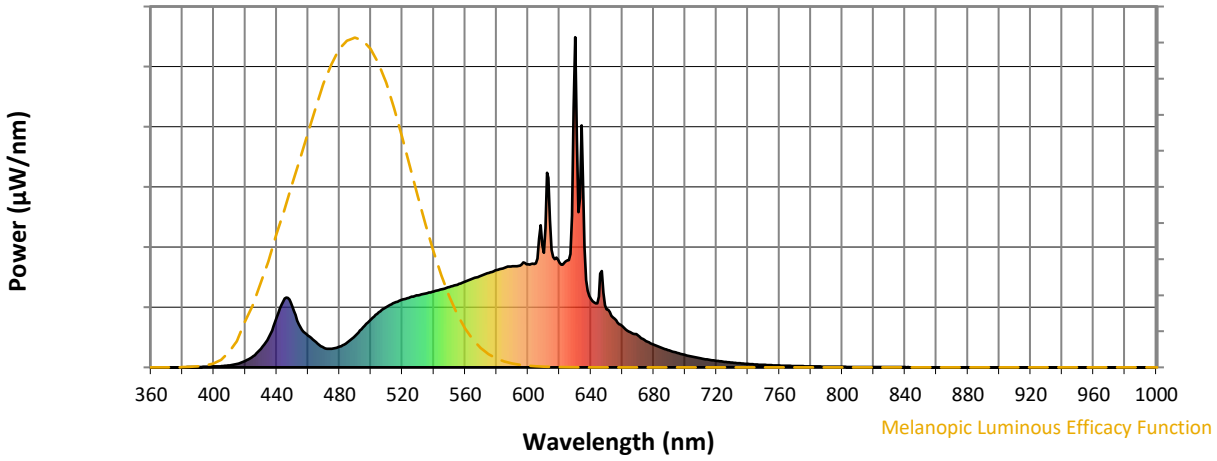


Scotopic Lumens: NR **S/P: 1.41**

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			

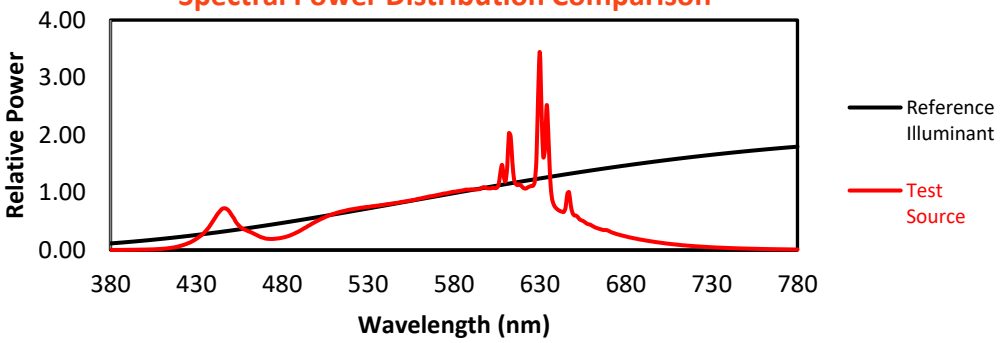
REPORT NUMBER: SP1-2512-631-41-R2

TM-30-18

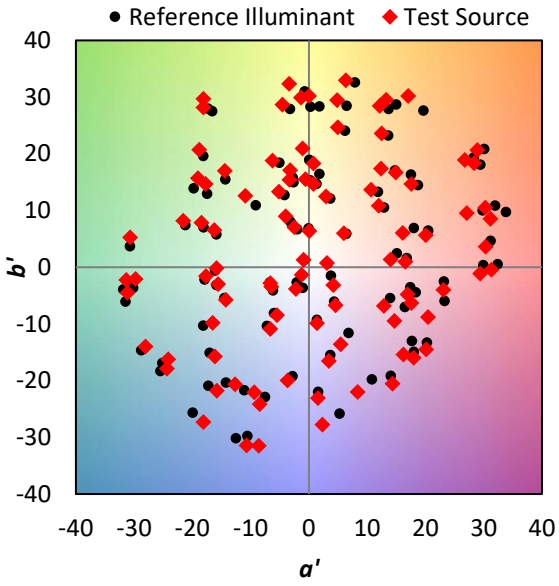
Summary

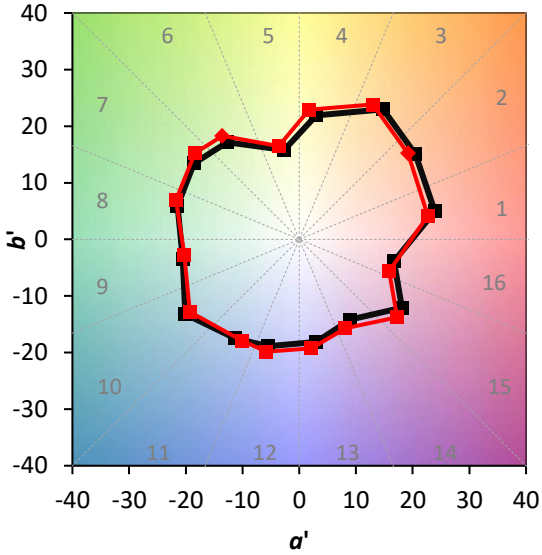
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R_g = 102
CIE R_a = 91.7
R_9 = 52.5

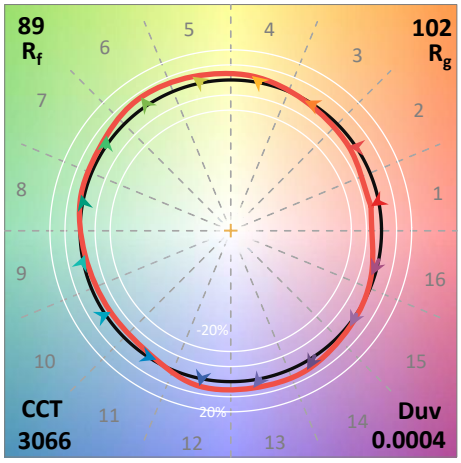
Spectral Power Distribution Comparison

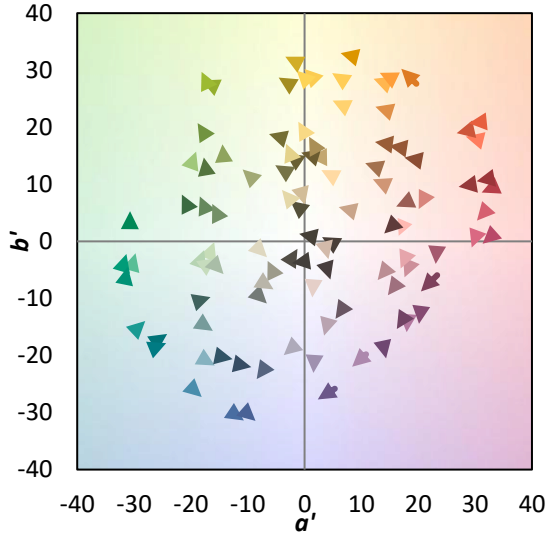


Color Vector Graphics







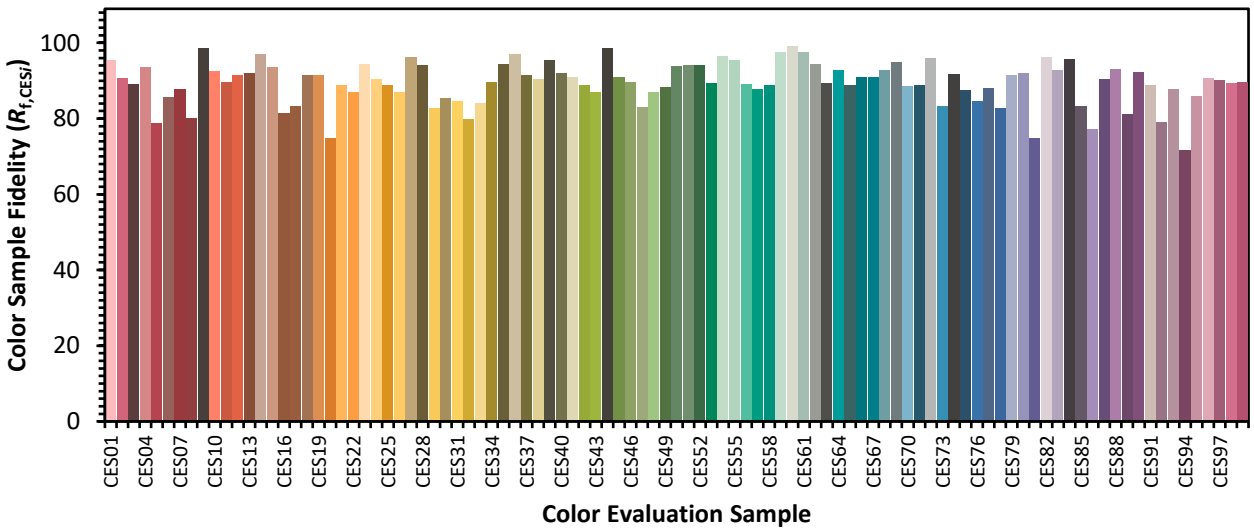


REPORT NUMBER: SP1-2512-631-41-R2

TM-30-18

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

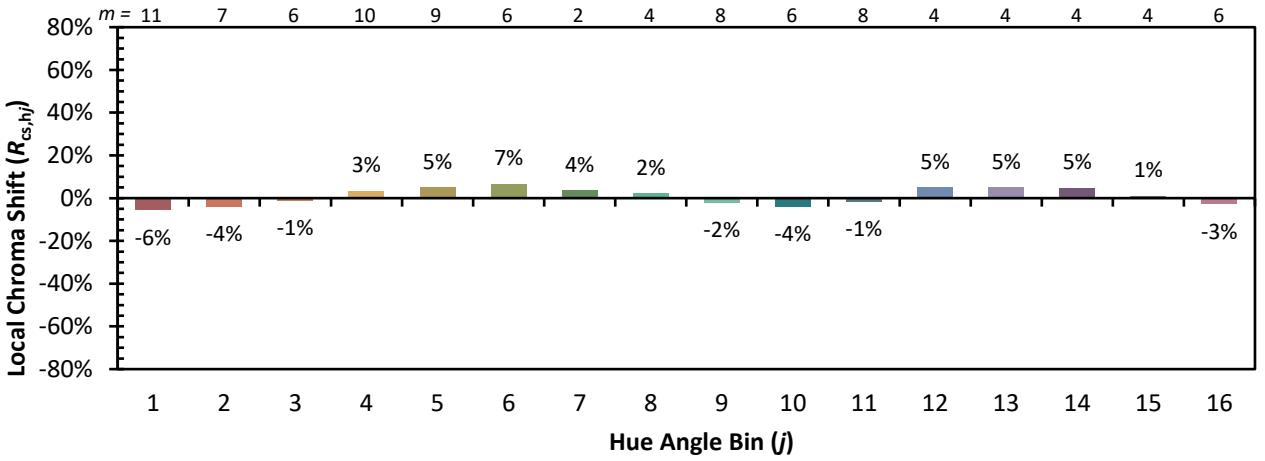
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CES02 = 63	CES27 = 96	CES52 = 94	CES77 = 88
CES03 = 32	CES28 = 94	CES53 = 89	CES78 = 83
CES04 = 70	CES29 = 83	CES54 = 97	CES79 = 92
CES05 = 50	CES30 = 85	CES55 = 95	CES80 = 92
CES06 = 51	CES31 = 85	CES56 = 89	CES81 = 75
CES07 = 43	CES32 = 80	CES57 = 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	

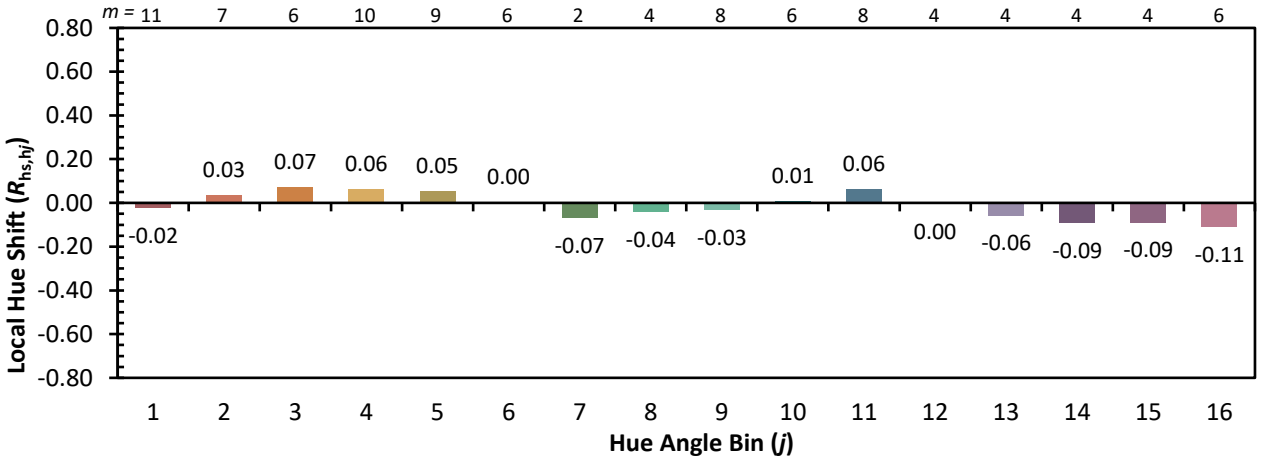


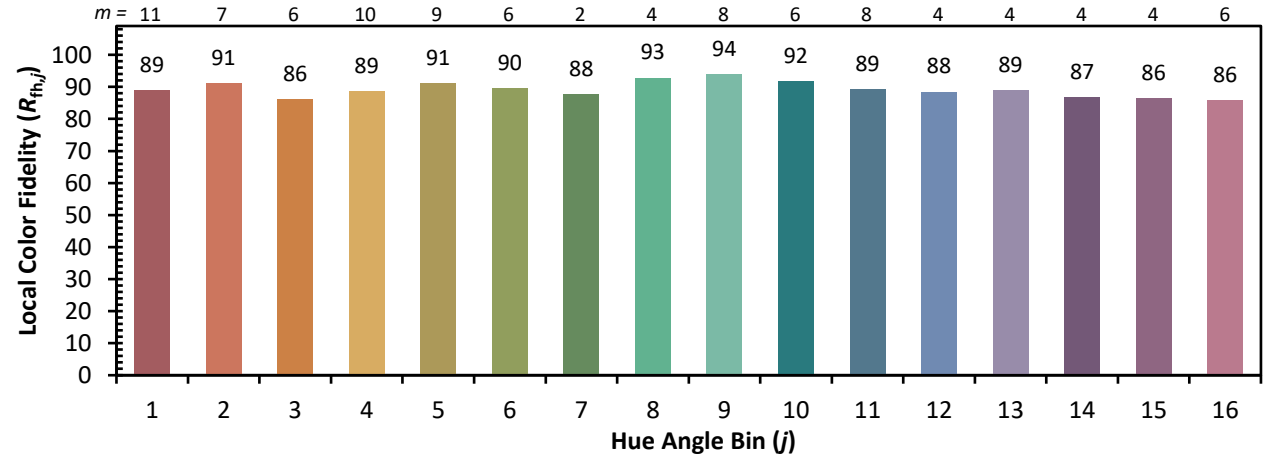
REPORT NUMBER: SP1-2512-631-41-R2

TM-30-18

Color Rendition by Hue-Angle Bin



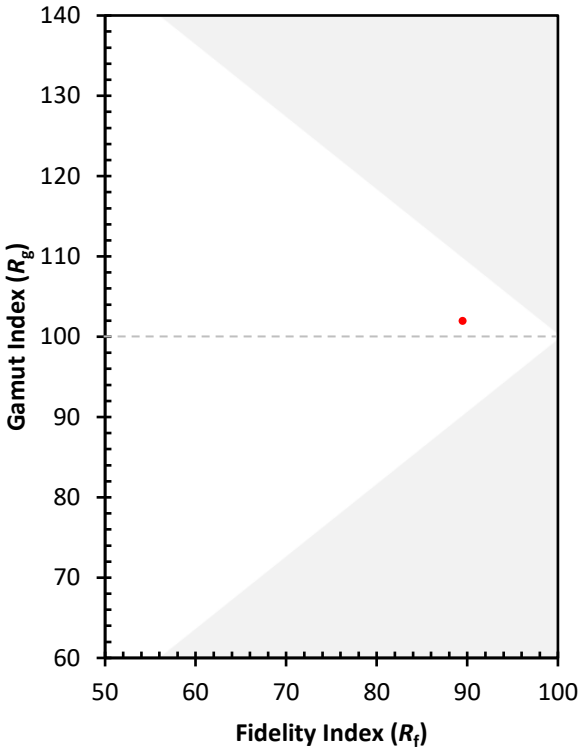


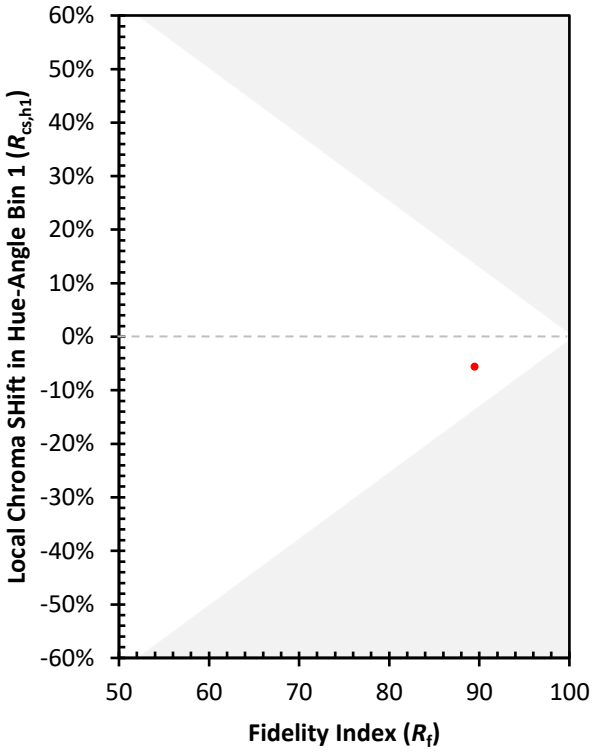


REPORT NUMBER: SP1-2512-631-41-R2

TM-30-18

Measure Comparisons





(END OF REPORT)