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: P1590946

Luminaire Tested: 24CGTX-40-L93050-W2A-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

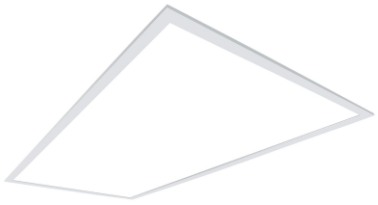
Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1590946
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	9/7/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	24CGTX-40-L93050-W2A-3000K
Description:	2X4 4000 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:	4576.5 lumens
Efficiency:	N/A
Efficacy:	117.0 lumens/watt
Spacing Criteria (0/90/45):	1.27 / 1.27 / 1.39
Luminous Opening:	Rectangular (W 1.81' x L: 3.83' x H: 0')
CIE Type:	Direct
Input Watts (W):	39.1
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

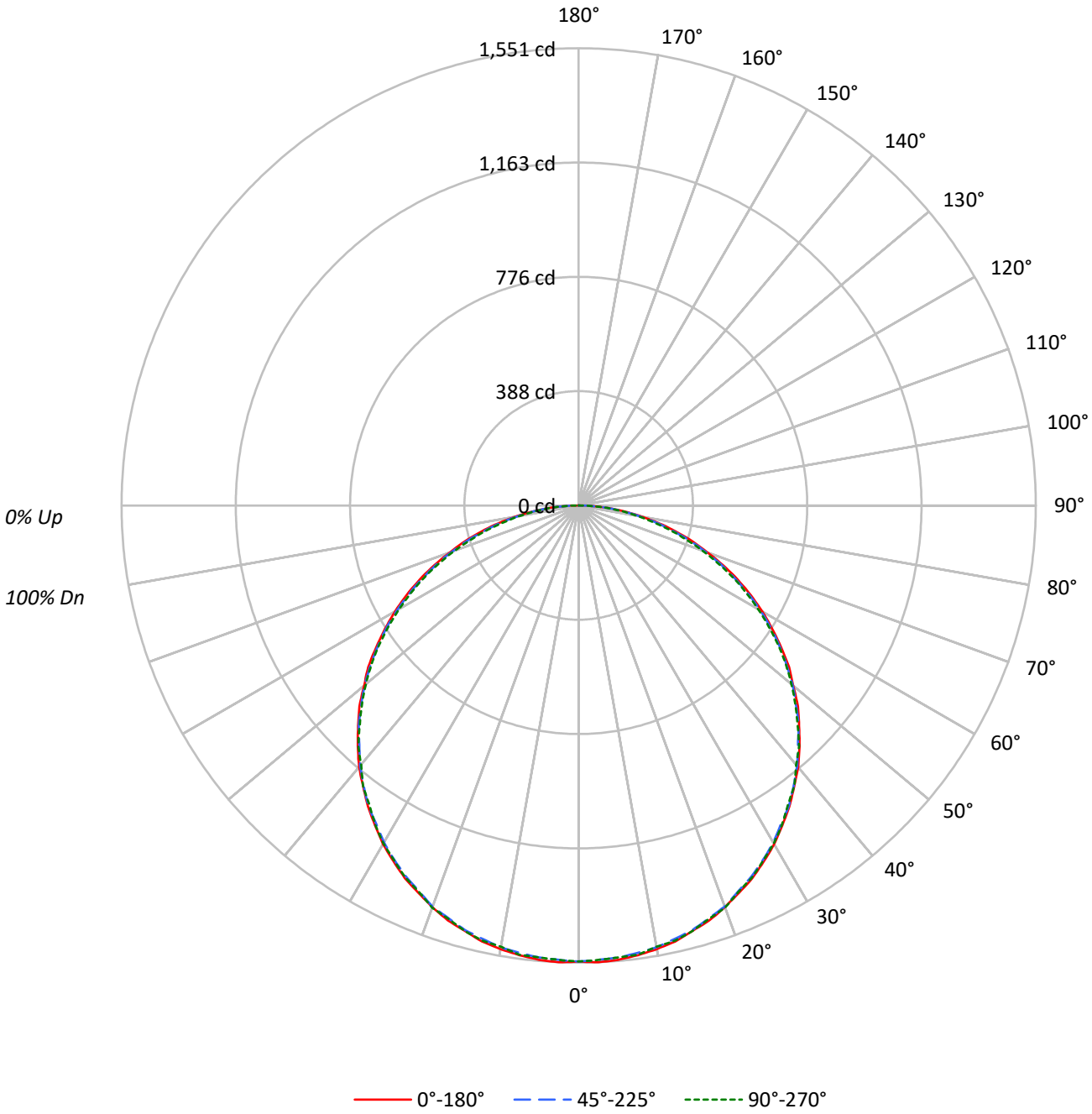


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Scaled Data Report

TEST NUMBER: P1590946
CATALOG NUMBER: 24CGTX-40-L93050-W2A-3000K

Luminous Intensity Polar Plot



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Scaled Data Report

TEST NUMBER: P1590946
CATALOG NUMBER: 24CGTX-40-L93050-W2A-3000K

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	31	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°	2397	2397	2397
5°	2406	2393	2393
10°	2404	2394	2391
15°	2396	2391	2396
20°	2391	2387	2394
25°	2385	2373	2379
30°	2374	2361	2368
35°	2358	2353	2341
40°	2344	2332	2322
45°	2318	2311	2300
50°	2290	2285	2270
55°	2263	2247	2234
60°	2228	2206	2178
65°	2181	2141	2119
70°	2102	2066	2020
75°	2047	1969	1909
80°	1918	1856	1784
85°	1795	1742	1653

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2318 cd/sqm

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Scaled Data Report

TEST NUMBER: P1590946
CATALOG NUMBER: 24CGTX-40-L93050-W2A-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.4	3.2
10°-20°	420.9	9.2
20°-30°	640.5	14.0
30°-40°	777.1	17.0
40°-50°	812.8	17.8
50°-60°	743.7	16.2
60°-70°	578.3	12.6
70°-80°	348.8	7.6
80°-90°	108.1	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°	1207.9	26.4
0°-40°	1984.9	43.4
0°-60°	3541.4	77.4
0°-90°	4576.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4576.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1547	1547	1547	1547	1547	
5°	1547	1539	1539	1535	1539	147
15°	1494	1490	1491	1491	1494	422
25°	1395	1389	1388	1387	1392	642
35°	1247	1242	1244	1241	1238	780
45°	1058	1055	1055	1051	1050	817
55°	838	836	832	828	827	750
65°	595	591	584	579	578	588
75°	342	337	329	321	319	360
85°	101	100	98	92	93	112
90°	0	0	0	0	0	

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TEST NUMBER: P1590946
CATALOG NUMBER: 24CGTX-40-L93050-W2A-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1547*	1547	1547	1547	1547
2.5°	*1551*	*1543*	*1543*	*1539*	*1543*
5°	*1547*	1539	1539	1535	1539
7.5°	*1539*	1533	1531	1531	1537
10°	*1528*	1523	1522	1519	1520
12.5°	*1515*	1507	1506	1505	1512
15°	*1494*	1490	1491	1491	1494
17.5°	*1476*	1473	1468	1470	1470
20°	*1450*	1447	1448	1443	1452
22.5°	*1422*	1422	1416	1418	1418
25°	*1395*	1389	1388	1387	1392
27.5°	*1361*	1358	1355	1356	1357
30°	*1327*	1320	1320	1322	1324
32.5°	*1286*	1287	1279	1279	1284
35°	*1247*	1242	1244	1241	1238
37.5°	*1201*	1201	1198	1197	1201
40°	*1159*	1152	1153	1149	1148
42.5°	*1109*	1107	1101	1101	1107
45°	*1058*	1055	1055	1051	1050
47.5°	*1009*	1006	1000	998	997
50°	*950*	950	948	943	942
52.5°	*900*	896	889	888	886
55°	*838*	836	832	828	827
57.5°	*779*	777	773	768	765
60°	*719*	714	712	705	703
62.5°	*658*	653	648	641	640
65°	*595*	591	584	579	578
67.5°	*530*	527	522	513	512
70°	*464*	466	456	447	446
72.5°	*405*	400	393	385	380
75°	*342*	337	329	321	319
77.5°	*279*	275	270	260	257
80°	*215*	214	208	203	200
82.5°	*157*	157	153	145	146
85°	*101*	100	98	92	93
87.5°	*47*	45	44	45	44
90°	*0*	0	0	0	0

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TEST NUMBER: P1590946
CATALOG NUMBER: 24CGTX-40-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	15.04	16.70	15.41	17.02	17.33	14.95	16.61	15.32	16.93	17.24
	3H	16.97	18.48	17.35	18.80	19.16	16.82	18.32	17.19	18.65	19.01
	4H	17.74	19.16	18.14	19.51	19.88	17.53	18.95	17.93	19.30	19.67
	6H	18.34	19.66	18.75	20.02	20.41	18.08	19.40	18.49	19.77	20.16
	8H	18.55	19.81	18.98	20.20	20.60	18.28	19.54	18.70	19.93	20.32
	12H	18.71	19.92	19.14	20.30	20.73	18.42	19.63	18.85	20.01	20.44
4H	2H	15.69	17.11	16.09	17.46	17.84	15.62	17.04	16.02	17.39	17.77
	3H	17.85	19.05	18.26	19.45	19.85	17.71	18.91	18.12	19.31	19.70
	4H	18.76	19.84	19.19	20.26	20.69	18.56	19.64	18.99	20.06	20.49
	6H	19.50	20.45	19.95	20.89	21.34	19.25	20.20	19.70	20.64	21.09
	8H	19.77	20.66	20.23	21.10	21.57	19.50	20.39	19.96	20.83	21.29
	12H	19.98	20.78	20.46	21.26	21.72	19.69	20.49	20.17	20.97	21.44
8H	4H	19.10	19.99	19.56	20.43	20.89	18.93	19.82	19.38	20.26	20.72
	6H	19.98	20.72	20.47	21.21	21.68	19.75	20.49	20.24	20.98	21.46
	8H	20.34	21.01	20.85	21.51	22.00	20.08	20.75	20.59	21.25	21.74
	12H	20.64	21.23	21.15	21.72	22.28	20.36	20.95	20.86	21.44	22.00
12H	4H	19.14	19.94	19.62	20.42	20.89	18.98	19.78	19.46	20.25	20.72
	6H	20.05	20.72	20.56	21.22	21.71	19.83	20.50	20.34	21.01	21.49
	8H	20.48	21.07	20.98	21.56	22.11	20.23	20.82	20.74	21.31	21.87

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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

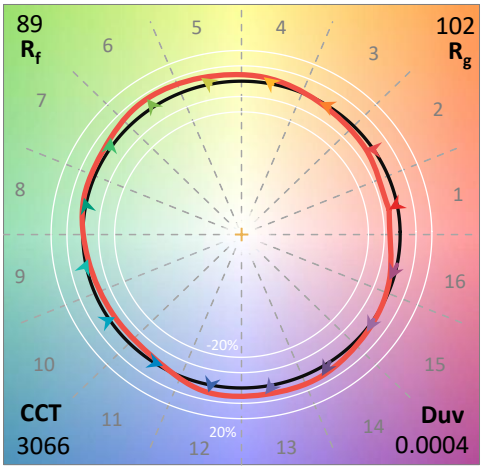
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

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				



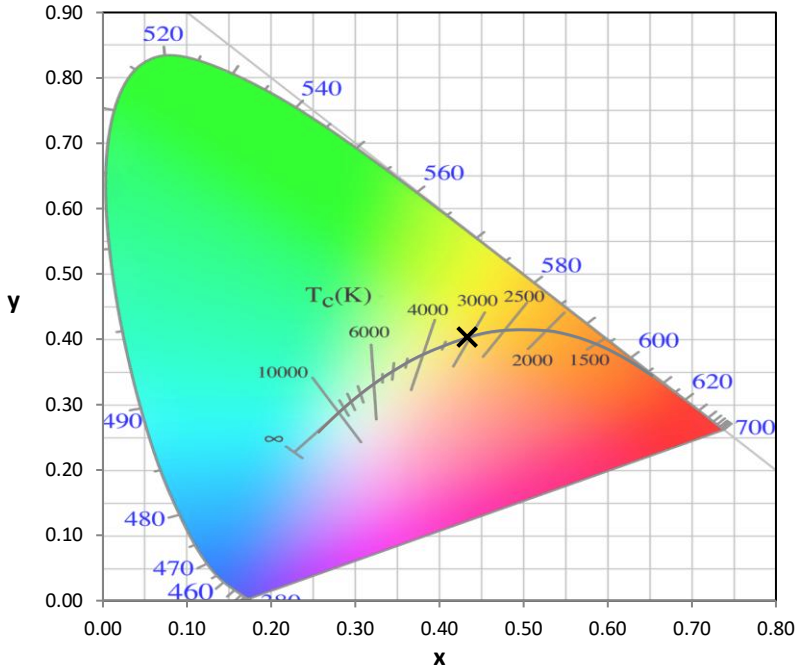
Test Conditions

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

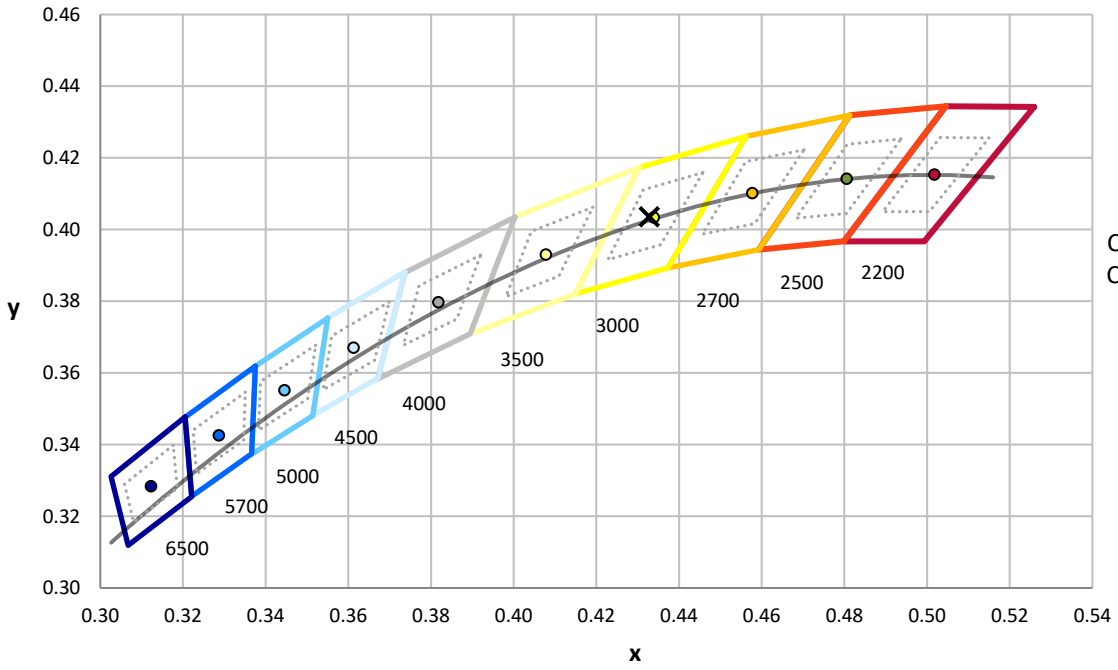
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

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CIE 1931 Chromaticity Diagram



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

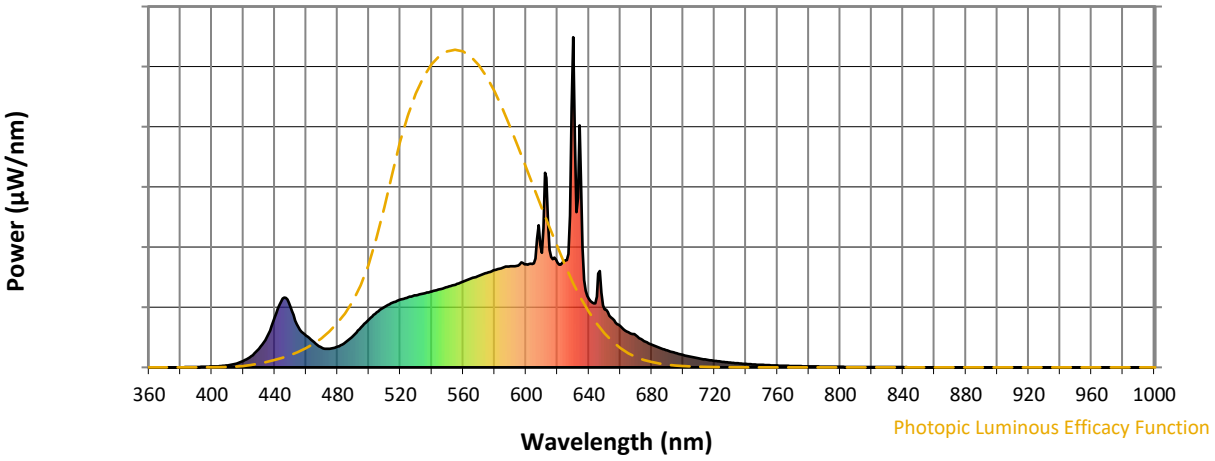


CCT = 3066K
CIE x = 0.4328
CIE y = 0.4036
Duv = 0.0004

Point lies inside the ANSI 3000K 4-step quadrangle

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

Photopic Flux vs. Wavelength

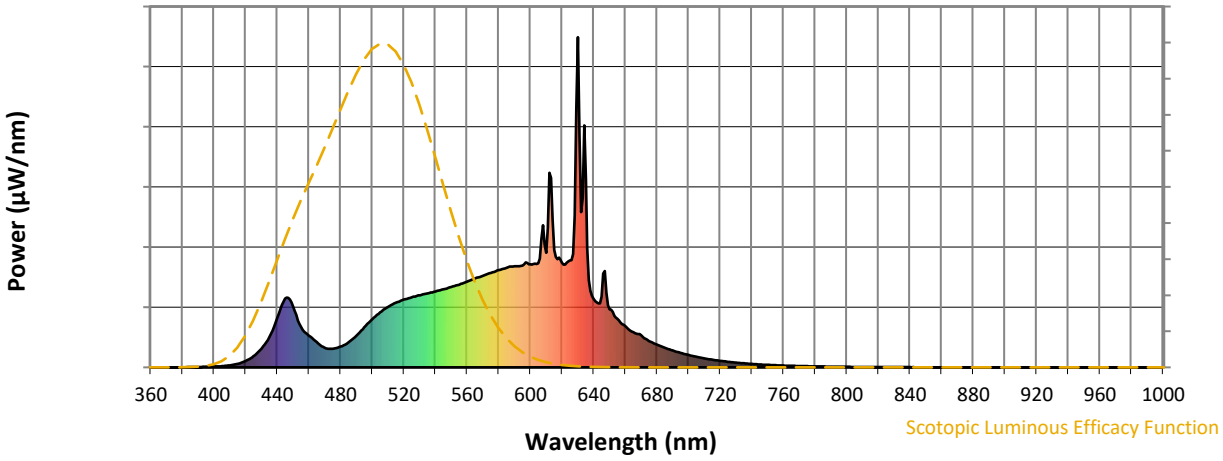


Photopic Lumens: NR

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

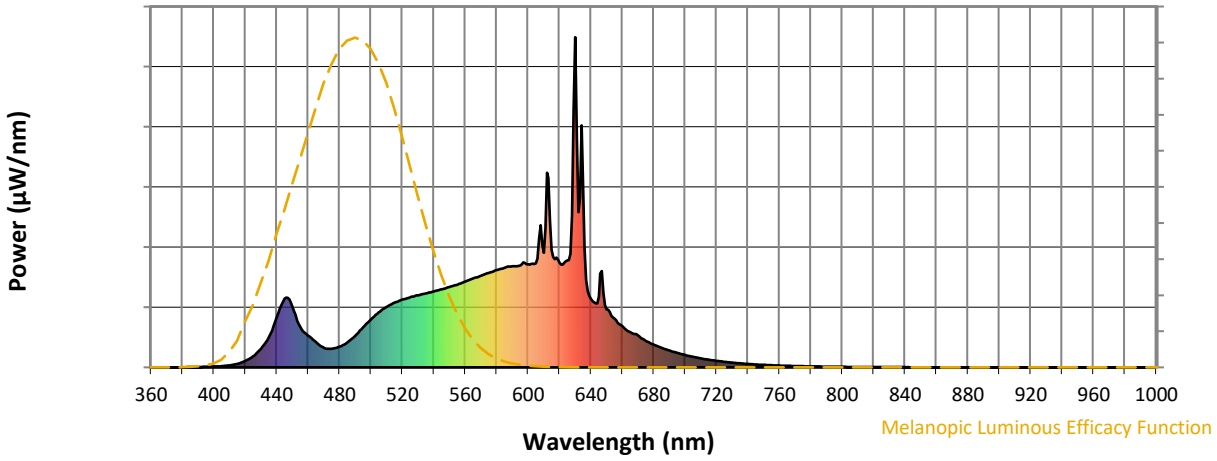


Scotopic Lumens: NR **S/P: 1.41**

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			

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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			

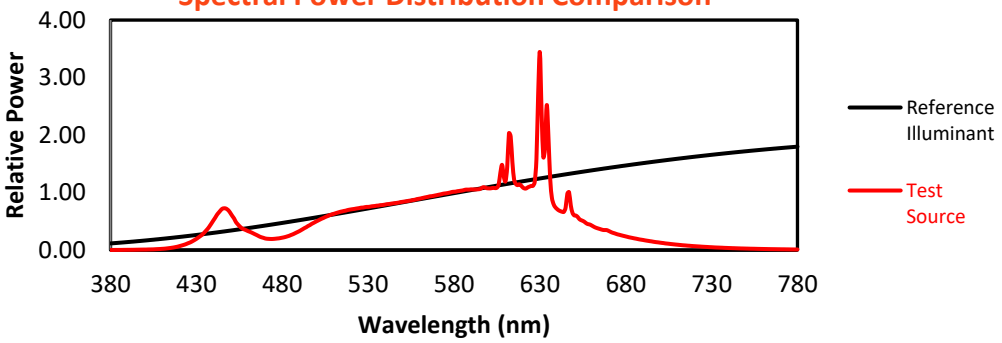
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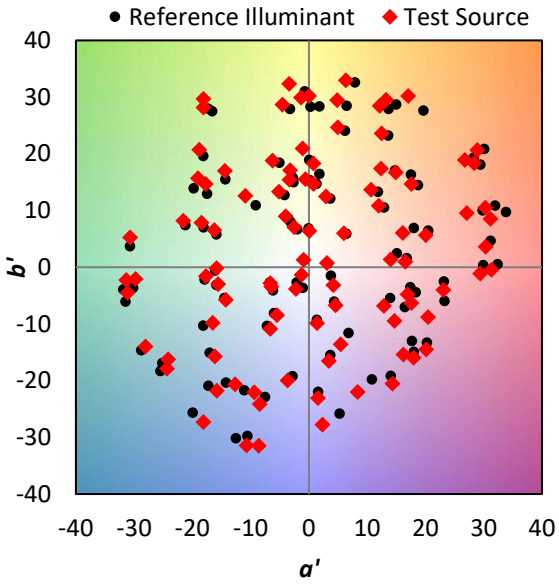
Summary

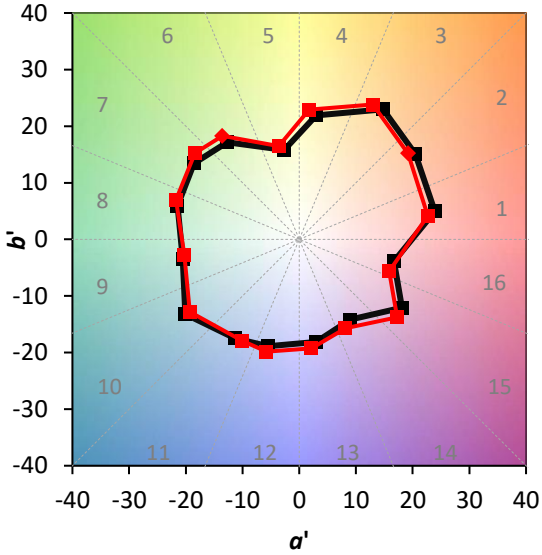
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R_g = 102
CIE R_a = 91.7
R_9 = 52.5

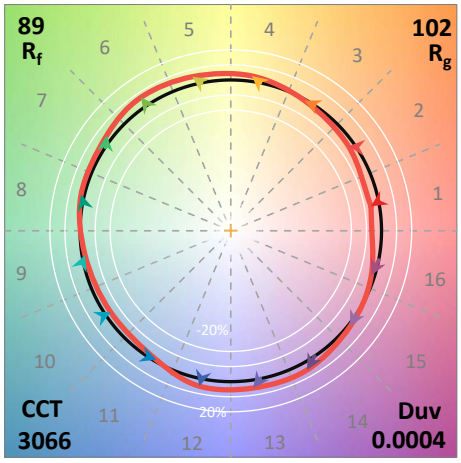
Spectral Power Distribution Comparison

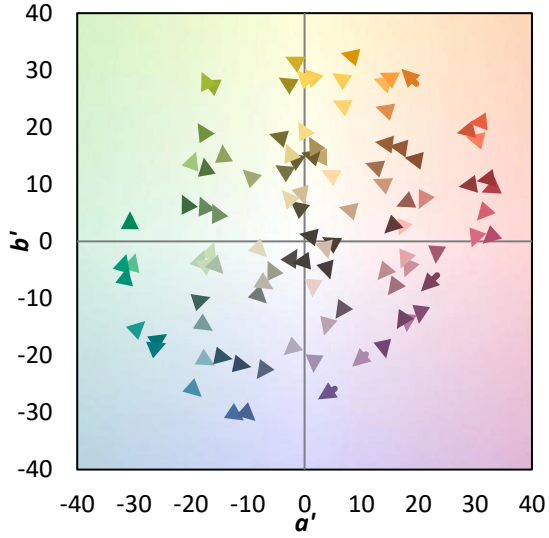


Color Vector Graphics







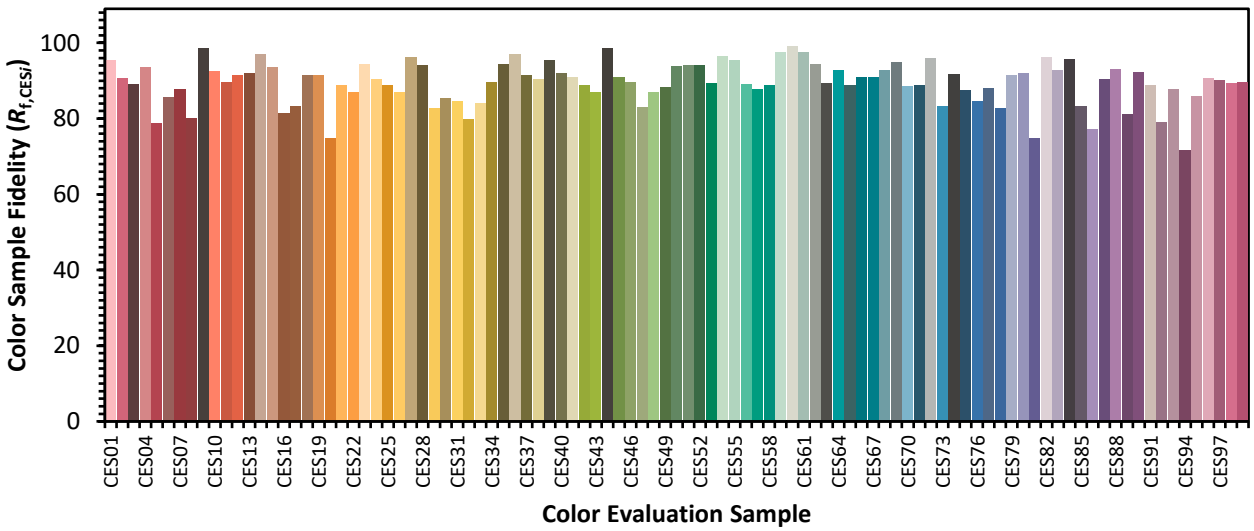


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Individual Sample Fidelity Index ($R_{f,i}$)

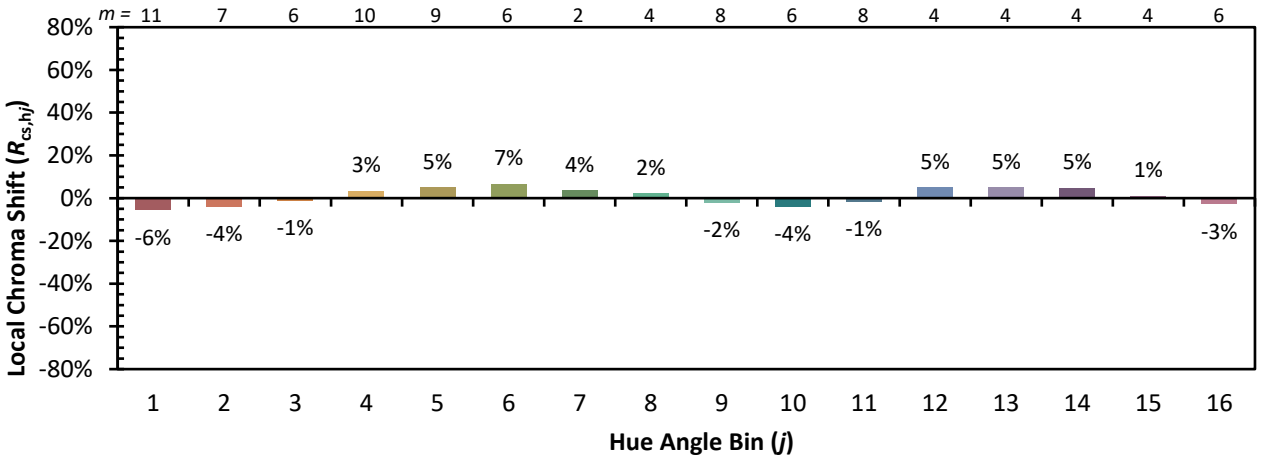
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CES02 = 63	CES27 = 96	CES52 = 94	CES77 = 88
CES03 = 32	CES28 = 94	CES53 = 89	CES78 = 83
CES04 = 70	CES29 = 83	CES54 = 97	CES79 = 92
CES05 = 50	CES30 = 85	CES55 = 95	CES80 = 92
CES06 = 51	CES31 = 85	CES56 = 89	CES81 = 75
CES07 = 43	CES32 = 80	CES57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

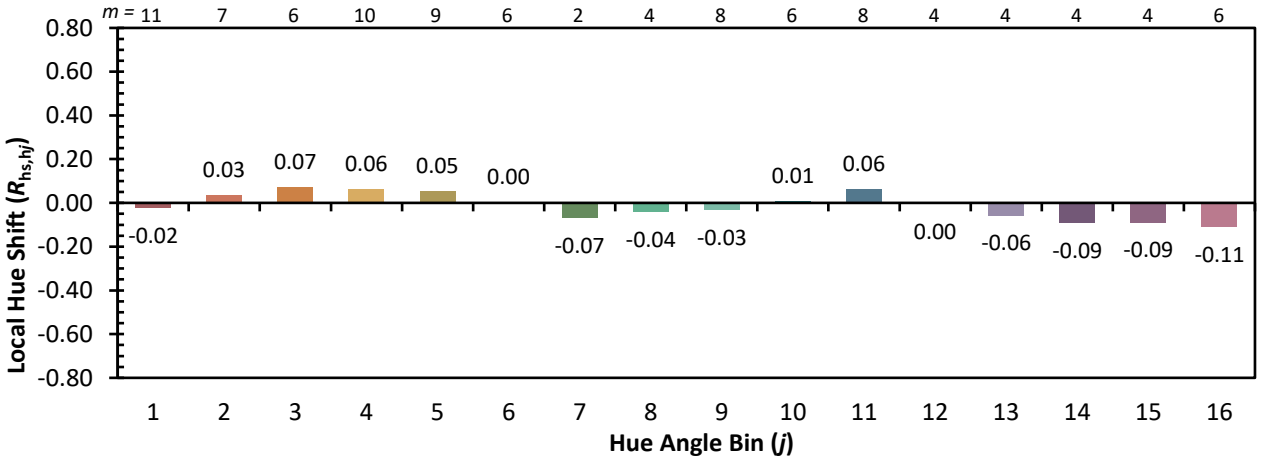


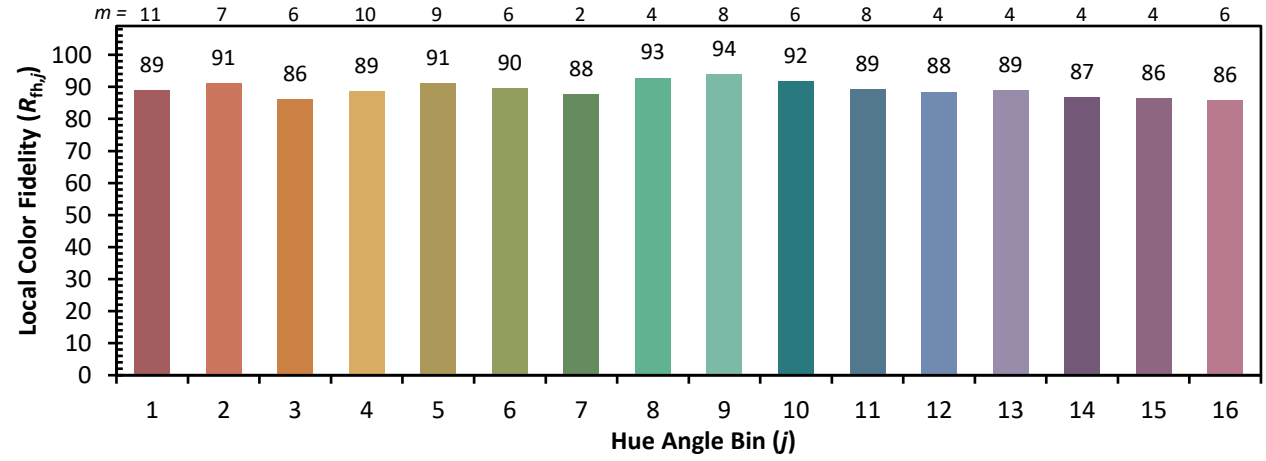
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Color Rendition by Hue-Angle Bin



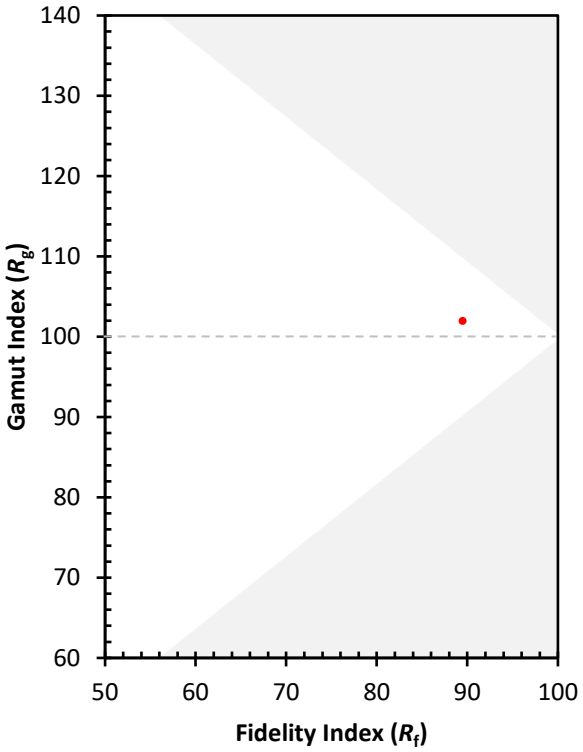


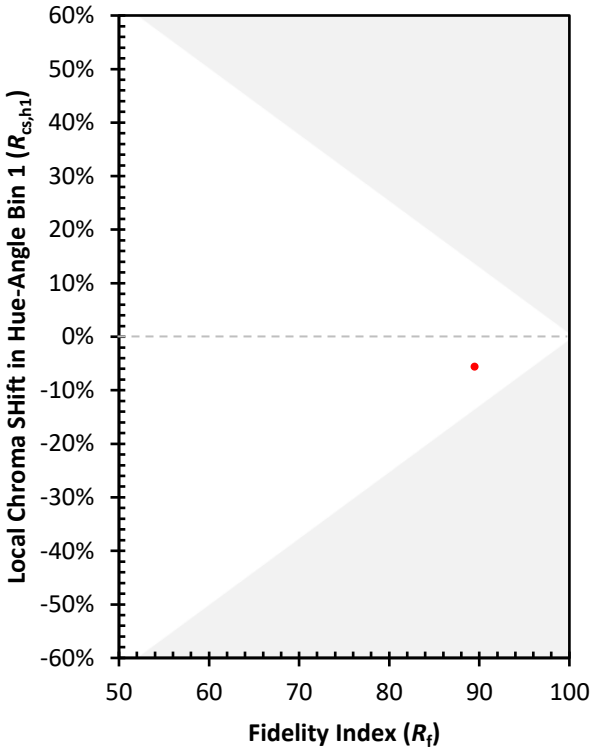


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Measure Comparisons





(END OF REPORT)