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: P1559245

Luminaire Tested: 22CGTX-20-B2750-W2D-3000K

Issue Date: 8/30/2026

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:	P1559245
	TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G3-2510-581-17)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	8/30/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	22CGTX-20-B2750-W2D-3000K
Description:	2X2 2000 LUMEN CGTX TROFFER WITH BIO UP LEDS AT 3000K CCT WITH FROSTED SMOOTH l
Light Source:	3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2183.4 lumens
Efficiency:	N/A
Efficacy:	113.7 lumens/watt
Spacing Criteria (0/90/45):	1.26 / 1.26 / 1.38
Luminous Opening:	Rectangular (W 2' x L: 2' x H: 0')
CIE Type:	Direct
Input Watts (W):	19.2
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

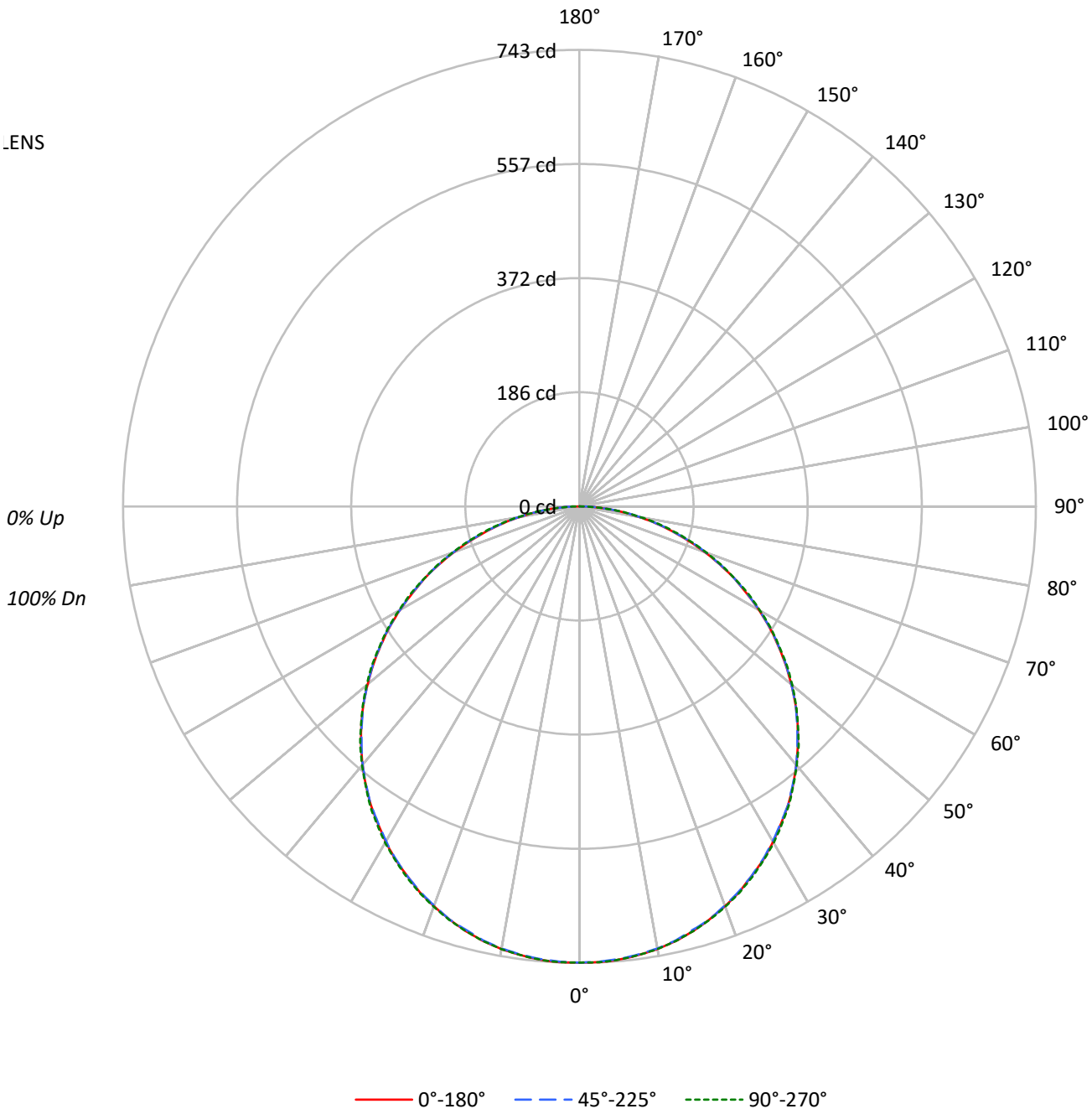


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Scaled Data Report

TEST NUMBER: P1559245
CATALOG NUMBER: 22CGTX-20-B2750-W2D-3000K

Luminous Intensity Polar Plot



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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	25	37	30	25	36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1998	1998	1998
5°	2001	1998	2001
10°	1999	1996	1999
15°	1994	1988	1994
20°	1983	1980	1986
25°	1970	1970	1976
30°	1959	1956	1965
35°	1946	1946	1952
40°	1929	1929	1933
45°	1911	1907	1915
50°	1884	1884	1892
55°	1853	1857	1862
60°	1817	1817	1828
65°	1774	1774	1780
70°	1703	1719	1727
75°	1625	1635	1667
80°	1522	1537	1568
85°	1362	1362	1392

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
Vertical Angle: 45°
Luminance: 1915 cd/sqm

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TEST NUMBER: P1559245
CATALOG NUMBER: 22CGTX-20-B2750-W2D-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.3	3.2
10°-20°	201.8	9.2
20°-30°	306.1	14.0
30°-40°	370.4	17.0
40°-50°	387.2	17.7
50°-60°	353.9	16.2
60°-70°	275.7	12.6
70°-80°	167.3	7.7
80°-90°	50.5	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°	578.2	26.5
0°-40°	948.7	43.4
0°-60°	1689.8	77.4
0°-90°	2183.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2183.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	743	743	743	743	743	
5°	741	740	740	740	741	70
15°	716	715	714	716	716	202
25°	663	663	663	664	666	306
35°	592	591	592	592	594	370
45°	502	502	501	502	503	387
55°	395	396	396	396	397	353
65°	279	278	279	280	280	275
75°	156	156	157	159	160	165
85°	44	44	44	45	45	50
90°	0	0	0	0	0	

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TEST NUMBER: P1559245
CATALOG NUMBER: 22CGTX-20-B2750-W2D-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*742.6*	*742.6*	*742.6*	*742.6*	*742.6*
2.5°	*742.6*	741.6	741.6	742.6	742.6
5°	*740.6*	739.6	739.6	739.6	740.6
7.5°	*736.6*	735.6	735.6	736.6	736.6
10°	*731.6*	730.6	730.6	731.6	731.6
12.5°	*724.6*	723.6	723.6	723.6	724.6
15°	*715.6*	714.6	713.6	715.6	715.6
17.5°	*704.5*	704.5	704.5	704.5	705.5
20°	*692.5*	691.5	691.5	692.5	693.5
22.5°	*679.5*	678.5	678.5	679.5	680.5
25°	*663.4*	663.4	663.4	664.4	665.5
27.5°	*648.4*	648.4	647.4	648.4	649.4
30°	*630.4*	630.4	629.4	631.4	632.4
32.5°	*611.3*	611.3	610.3	612.3	613.3
35°	*592.3*	591.3	592.3	592.3	594.3
37.5°	*571.2*	571.2	570.2	571.2	572.2
40°	*549.2*	549.2	549.2	550.2	550.2
42.5°	*526.1*	526.1	525.1	527.2	528.2
45°	*502.1*	502.1	501.1	502.1	503.1
47.5°	*477.0*	476.0	477.0	478.0	478.0
50°	*450.0*	450.0	450.0	451.0	452.0
52.5°	*422.9*	422.9	423.9	424.9	425.9
55°	*394.9*	395.9	395.9	395.9	396.9
57.5°	*366.8*	366.8	367.8	368.8	369.8
60°	*337.7*	336.7	337.7	339.7	339.7
62.5°	*306.7*	307.7	307.7	309.7	310.7
65°	*278.6*	277.6	278.6	279.6	279.6
67.5°	*247.5*	247.5	248.5	249.5	250.5
70°	*216.5*	217.5	218.5	220.5	219.5
72.5°	*185.4*	187.4	188.4	189.4	190.4
75°	*156.3*	156.3	157.3	159.3	160.3
77.5°	*127.3*	127.3	128.3	130.3	132.3
80°	*98.2*	99.2	99.2	101.2	101.2
82.5°	*71.2*	71.2	71.2	73.2	73.2
85°	*44.1*	44.1	44.1	45.1	45.1
87.5°	*19.0*	19.0	19.0	20.0	20.0
90°	*0.0*	0.0	0.0	0.0	0.0

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TEST NUMBER: P1559245
CATALOG NUMBER: 22CGTX-20-B2750-W2D-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	14.31	15.97	14.68	16.29	16.60	14.36	16.02	14.72	16.33	16.64
	3H	16.22	17.72	16.59	18.05	18.41	16.28	17.78	16.65	18.11	18.47
	4H	16.95	18.37	17.35	18.72	19.10	17.03	18.45	17.43	18.80	19.17
	6H	17.53	18.85	17.94	19.21	19.60	17.63	18.95	18.04	19.31	19.71
	8H	17.73	18.99	18.15	19.38	19.78	17.84	19.10	18.26	19.49	19.88
	12H	17.87	19.08	18.30	19.46	19.89	17.98	19.19	18.41	19.57	20.00
4H	2H	14.98	16.40	15.38	16.75	17.12	15.01	16.43	15.41	16.78	17.16
	3H	17.11	18.31	17.52	18.70	19.10	17.16	18.36	17.57	18.76	19.16
	4H	17.98	19.07	18.42	19.48	19.92	18.06	19.14	18.49	19.55	19.99
	6H	18.70	19.65	19.15	20.09	20.54	18.80	19.75	19.25	20.19	20.64
	8H	18.95	19.84	19.41	20.28	20.75	19.06	19.95	19.52	20.39	20.86
	12H	19.14	19.95	19.62	20.42	20.89	19.25	20.06	19.73	20.53	21.00
8H	4H	18.34	19.23	18.80	19.67	20.14	18.41	19.30	18.87	19.74	20.20
	6H	19.19	19.94	19.69	20.42	20.90	19.28	20.03	19.78	20.51	20.99
	8H	19.53	20.20	20.04	20.70	21.19	19.63	20.30	20.14	20.80	21.29
	12H	19.81	20.40	20.31	20.89	21.44	19.91	20.50	20.42	20.99	21.55
12H	4H	18.39	19.19	18.87	19.67	20.13	18.45	19.25	18.93	19.73	20.20
	6H	19.27	19.94	19.78	20.44	20.93	19.36	20.02	19.86	20.53	21.01
	8H	19.67	20.26	20.18	20.75	21.31	19.77	20.36	20.27	20.85	21.41

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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: SP1-2510-581-7-R2

Test Date: 02/03/2026

Luminaire Tested: 24CGTX-45-B2750-W2D-3000K

Data in this report applies to families of products including 24CGTX-45-UNV

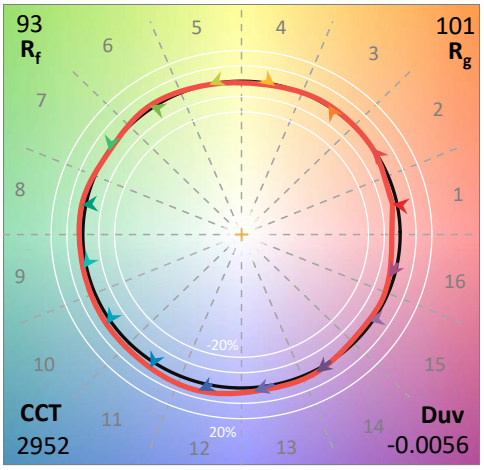
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Version: v7.05

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2510-581-7-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:	**24CGTX-45-B2750-W2D-3000K**
Description:	*THIS IS A REVISION OF REPORT SP1-2510-581-7-R2 TO UPDATE THE CATALOG INFORMATION* 2X4 CGTX 4500 lumen with BioUp Boards - 3000K

Spectral Parameters

CCT (K):	2952	CRI (Ra):	93.5		
CIE u':	0.2542	R1:	95.6	R9:	82.5
CIE v':	0.5145	R2:	94.7	R10:	90.6
Duv:	-0.0056	R3:	96.0	R11:	92.8
CIE x:	0.4322	R4:	97.3	R12:	84.0
CIE y:	0.3888	R5:	94.8	R13:	94.8
CIE z:	0.1790	R6:	87.8	R14:	98.9
Peak Wavelength (nm):	630	R7:	91.5	R15:	98.9
Dominant Wavelength (nm):	585	R8:	90.6		
Purity:	46.40923				
Rf:	93.3				
Rg:	101.3				



Test Conditions

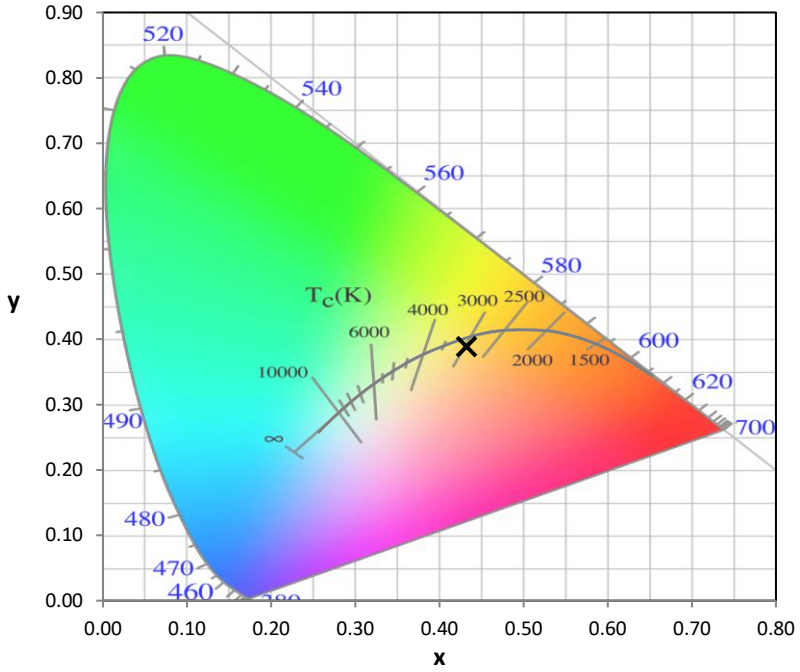
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	25.1

REPORT NUMBER: SP1-2510-581-7-R2

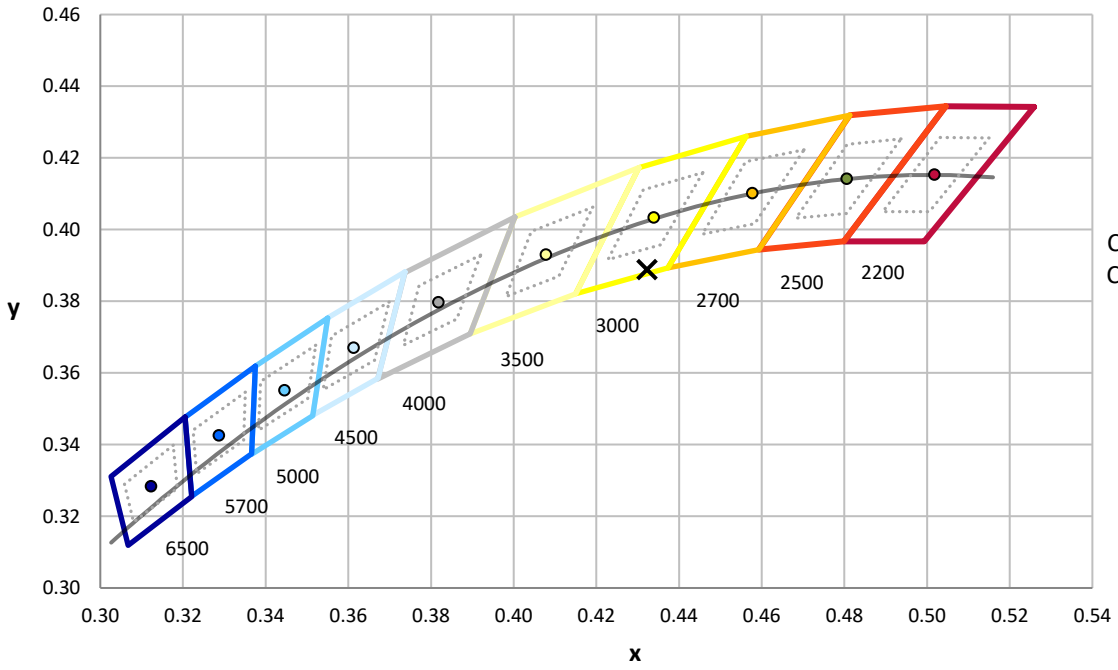
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	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: SP1-2510-581-7-R2

CIE 1931 Chromaticity Diagram



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

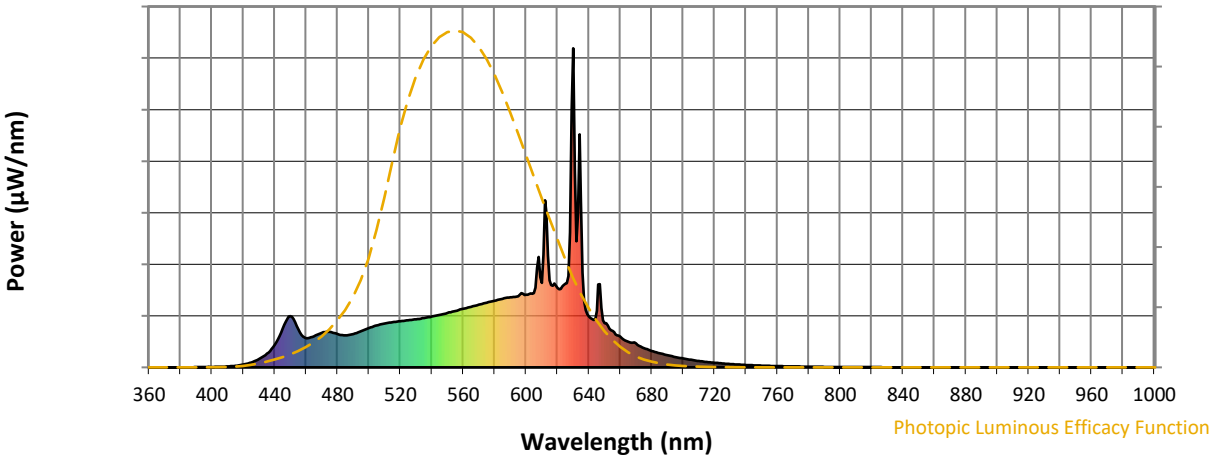


CCT = 2952K
CIE x = 0.4322
CIE y = 0.3888
Duv = -0.0056

Point lies inside the ANSI 3000K 7-step quadrangle

REPORT NUMBER: SP1-2510-581-7-R2

Photopic Flux vs. Wavelength

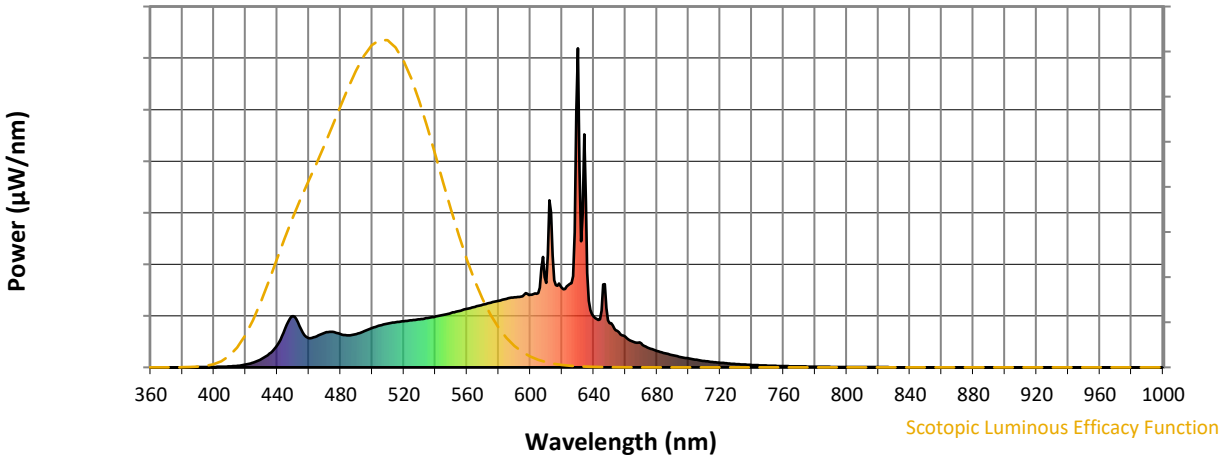


Photopic Lumens: NR

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	104	NR	620	249	NR	750	5	NR	880	0	NR
365	0	NR	495	113	NR	625	262	NR	755	5	NR	885	0	NR
370	0	NR	500	123	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	131	NR	635	519	NR	765	3	NR	895	0	NR
380	0	NR	510	137	NR	640	160	NR	770	3	NR	900	0	NR
385	0	NR	515	141	NR	645	177	NR	775	2	NR	905	0	NR
390	1	NR	520	145	NR	650	138	NR	780	2	NR	910	0	NR
395	1	NR	525	147	NR	655	114	NR	785	2	NR	915	0	NR
400	1	NR	530	151	NR	660	96	NR	790	2	NR	920	0	NR
405	2	NR	535	155	NR	665	80	NR	795	1	NR	925	0	NR
410	3	NR	540	159	NR	670	75	NR	800	1	NR	930	0	NR
415	5	NR	545	165	NR	675	60	NR	805	1	NR	935	0	NR
420	9	NR	550	171	NR	680	52	NR	810	1	NR	940	0	NR
425	15	NR	555	176	NR	685	44	NR	815	1	NR	945	0	NR
430	26	NR	560	184	NR	690	38	NR	820	1	NR	950	0	NR
435	43	NR	565	190	NR	695	32	NR	825	1	NR	955	0	NR
440	70	NR	570	197	NR	700	28	NR	830	1	NR	960	0	NR
445	121	NR	575	203	NR	705	24	NR	835	0	NR	965	0	NR
450	160	NR	580	209	NR	710	20	NR	840	0	NR	970	0	NR
455	120	NR	585	215	NR	715	17	NR	845	0	NR	975	0	NR
460	91	NR	590	220	NR	720	14	NR	850	0	NR	980	0	NR
465	98	NR	595	223	NR	725	12	NR	855	0	NR	985	0	NR
470	108	NR	600	228	NR	730	10	NR	860	0	NR	990	0	NR
475	111	NR	605	233	NR	735	9	NR	865	0	NR	995	0	NR
480	104	NR	610	265	NR	740	8	NR	870	0	NR	1000	0	NR
485	100	NR	615	273	NR	745	6	NR	875	0	NR			

REPORT NUMBER: SP1-2510-581-7-R2

Scotopic Flux vs. Wavelength

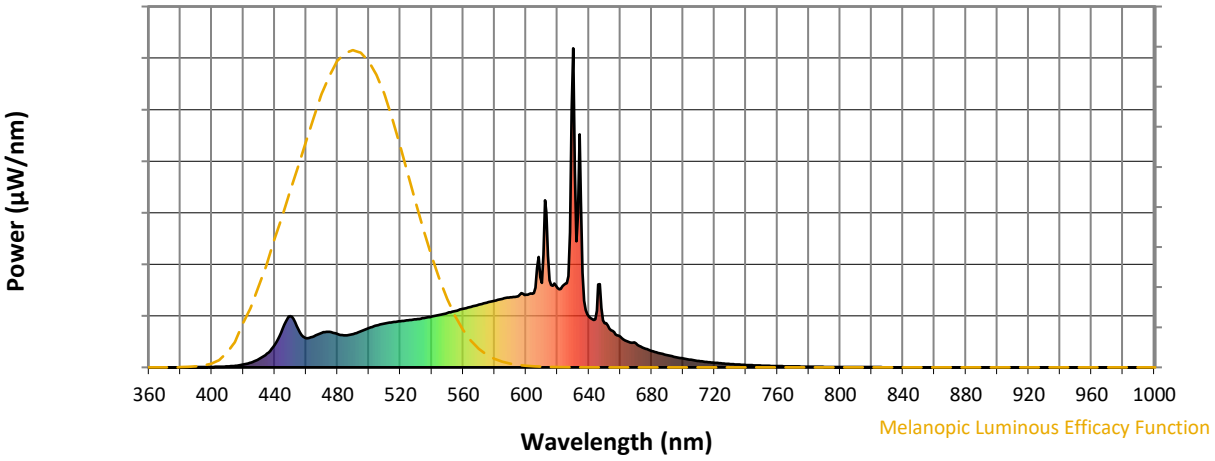


Scotopic Lumens: NR **S/P: 1.53**

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	104	NR	620	249	NR	750	5	NR	880	0	NR
365	0	NR	495	113	NR	625	262	NR	755	5	NR	885	0	NR
370	0	NR	500	123	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	131	NR	635	519	NR	765	3	NR	895	0	NR
380	0	NR	510	137	NR	640	160	NR	770	3	NR	900	0	NR
385	0	NR	515	141	NR	645	177	NR	775	2	NR	905	0	NR
390	1	NR	520	145	NR	650	138	NR	780	2	NR	910	0	NR
395	1	NR	525	147	NR	655	114	NR	785	2	NR	915	0	NR
400	1	NR	530	151	NR	660	96	NR	790	2	NR	920	0	NR
405	2	NR	535	155	NR	665	80	NR	795	1	NR	925	0	NR
410	3	NR	540	159	NR	670	75	NR	800	1	NR	930	0	NR
415	5	NR	545	165	NR	675	60	NR	805	1	NR	935	0	NR
420	9	NR	550	171	NR	680	52	NR	810	1	NR	940	0	NR
425	15	NR	555	176	NR	685	44	NR	815	1	NR	945	0	NR
430	26	NR	560	184	NR	690	38	NR	820	1	NR	950	0	NR
435	43	NR	565	190	NR	695	32	NR	825	1	NR	955	0	NR
440	70	NR	570	197	NR	700	28	NR	830	1	NR	960	0	NR
445	121	NR	575	203	NR	705	24	NR	835	0	NR	965	0	NR
450	160	NR	580	209	NR	710	20	NR	840	0	NR	970	0	NR
455	120	NR	585	215	NR	715	17	NR	845	0	NR	975	0	NR
460	91	NR	590	220	NR	720	14	NR	850	0	NR	980	0	NR
465	98	NR	595	223	NR	725	12	NR	855	0	NR	985	0	NR
470	108	NR	600	228	NR	730	10	NR	860	0	NR	990	0	NR
475	111	NR	605	233	NR	735	9	NR	865	0	NR	995	0	NR
480	104	NR	610	265	NR	740	8	NR	870	0	NR	1000	0	NR
485	100	NR	615	273	NR	745	6	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.12**

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	104	NR	620	249	NR	750	5	NR	880	0	NR
365	0	NR	495	113	NR	625	262	NR	755	5	NR	885	0	NR
370	0	NR	500	123	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	131	NR	635	519	NR	765	3	NR	895	0	NR
380	0	NR	510	137	NR	640	160	NR	770	3	NR	900	0	NR
385	0	NR	515	141	NR	645	177	NR	775	2	NR	905	0	NR
390	1	NR	520	145	NR	650	138	NR	780	2	NR	910	0	NR
395	1	NR	525	147	NR	655	114	NR	785	2	NR	915	0	NR
400	1	NR	530	151	NR	660	96	NR	790	2	NR	920	0	NR
405	2	NR	535	155	NR	665	80	NR	795	1	NR	925	0	NR
410	3	NR	540	159	NR	670	75	NR	800	1	NR	930	0	NR
415	5	NR	545	165	NR	675	60	NR	805	1	NR	935	0	NR
420	9	NR	550	171	NR	680	52	NR	810	1	NR	940	0	NR
425	15	NR	555	176	NR	685	44	NR	815	1	NR	945	0	NR
430	26	NR	560	184	NR	690	38	NR	820	1	NR	950	0	NR
435	43	NR	565	190	NR	695	32	NR	825	1	NR	955	0	NR
440	70	NR	570	197	NR	700	28	NR	830	1	NR	960	0	NR
445	121	NR	575	203	NR	705	24	NR	835	0	NR	965	0	NR
450	160	NR	580	209	NR	710	20	NR	840	0	NR	970	0	NR
455	120	NR	585	215	NR	715	17	NR	845	0	NR	975	0	NR
460	91	NR	590	220	NR	720	14	NR	850	0	NR	980	0	NR
465	98	NR	595	223	NR	725	12	NR	855	0	NR	985	0	NR
470	108	NR	600	228	NR	730	10	NR	860	0	NR	990	0	NR
475	111	NR	605	233	NR	735	9	NR	865	0	NR	995	0	NR
480	104	NR	610	265	NR	740	8	NR	870	0	NR	1000	0	NR
485	100	NR	615	273	NR	745	6	NR	875	0	NR			

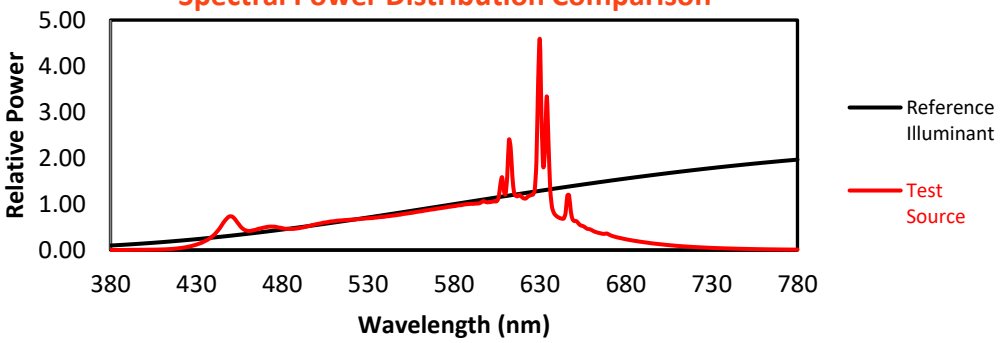
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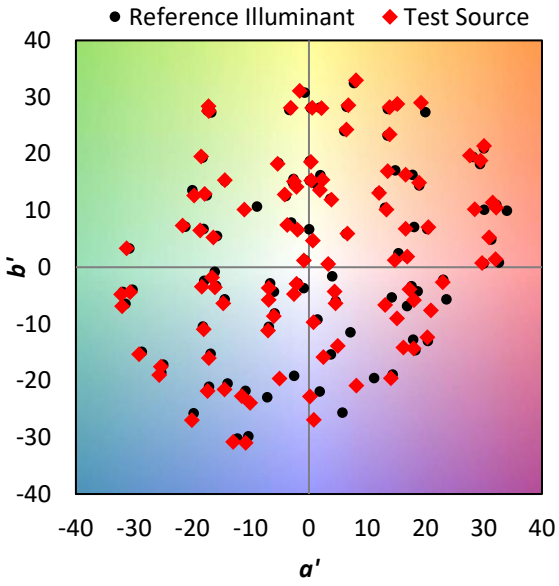
Summary

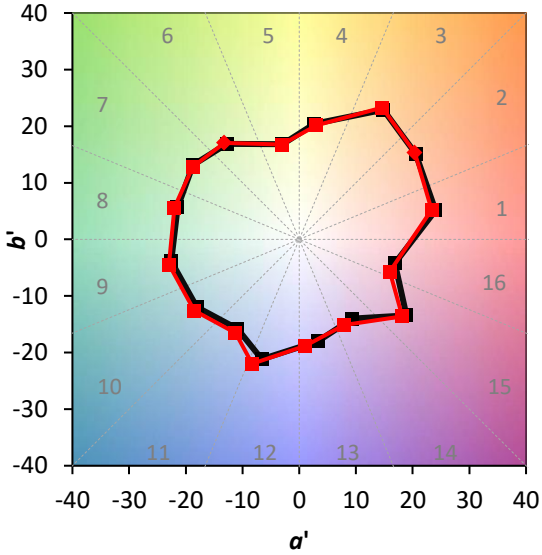
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R_g = 101.3
CIE R_a = 93.5
R_9 = 82.5

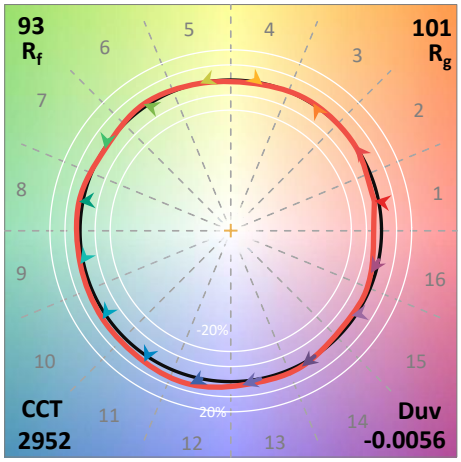
Spectral Power Distribution Comparison

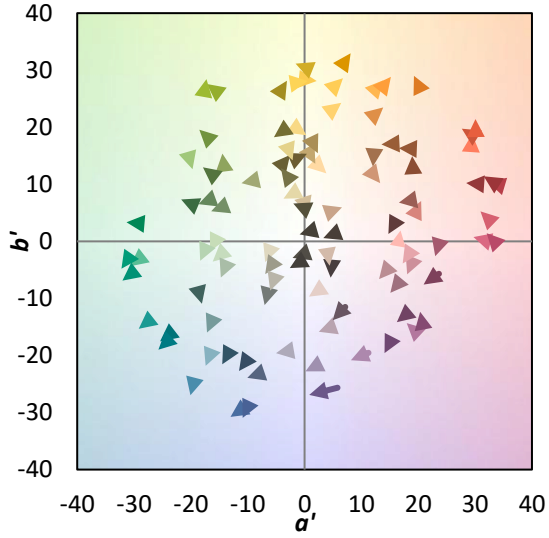


Color Vector Graphics







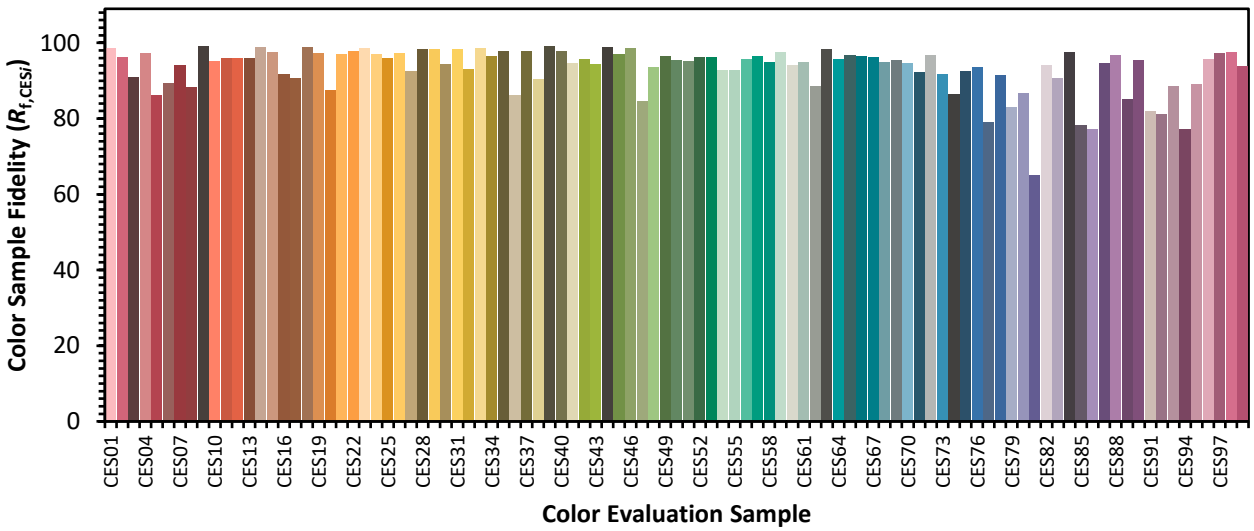


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Individual Sample Fidelity Index ($R_{f,i}$)

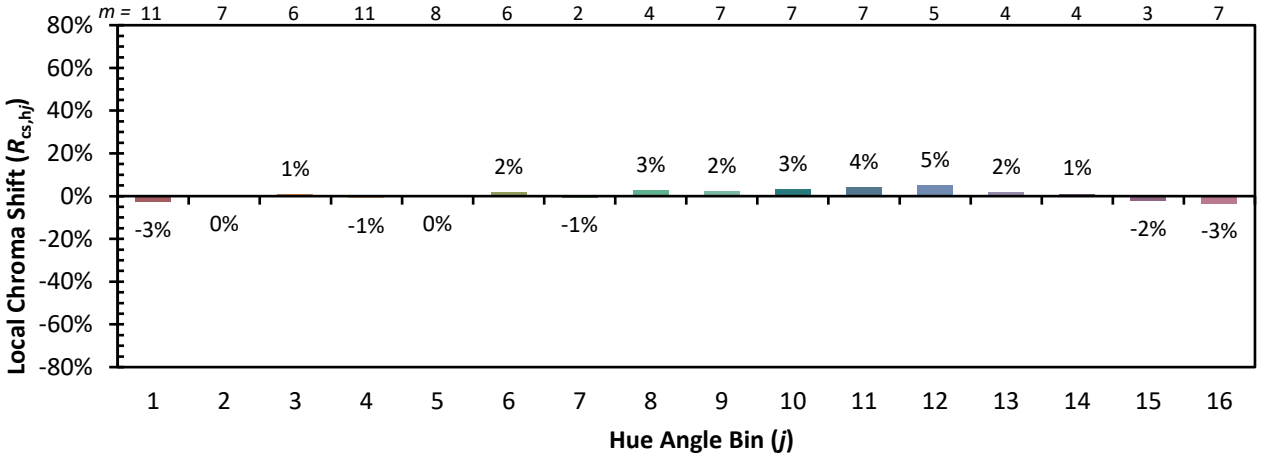
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CES02 = 64	CES27 = 92	CES52 = 96	CES77 = 79
CES03 = 32	CES28 = 98	CES53 = 96	CES78 = 92
CES04 = 70	CES29 = 98	CES54 = 93	CES79 = 83
CES05 = 51	CES30 = 94	CES55 = 93	CES80 = 87
CES06 = 51	CES31 = 98	CES56 = 96	CES81 = 65
CES07 = 44	CES32 = 93	CES57 = 96	CES82 = 94
CES08 = 43	CES33 = 99	CES58 = 95	CES83 = 91
CES09 = 29	CES34 = 97	CES59 = 98	CES84 = 98
CES10 = 76	CES35 = 98	CES60 = 94	CES85 = 78
CES11 = 59	CES36 = 86	CES61 = 95	CES86 = 77
CES12 = 65	CES37 = 98	CES62 = 89	CES87 = 95
CES13 = 44	CES38 = 90	CES63 = 98	CES88 = 97
CES14 = 74	CES39 = 99	CES64 = 96	CES89 = 85
CES15 = 72	CES40 = 98	CES65 = 97	CES90 = 95
CES16 = 48	CES41 = 95	CES66 = 96	CES91 = 82
CES17 = 50	CES42 = 96	CES67 = 96	CES92 = 81
CES18 = 57	CES43 = 94	CES68 = 95	CES93 = 88
CES19 = 72	CES44 = 99	CES69 = 95	CES94 = 77
CES20 = 68	CES45 = 97	CES70 = 95	CES95 = 89
CES21 = 86	CES46 = 99	CES71 = 92	CES96 = 96
CES22 = 79	CES47 = 85	CES72 = 97	CES97 = 97
CES23 = 91	CES48 = 94	CES73 = 92	CES98 = 98
CES24 = 90	CES49 = 97	CES74 = 86	CES99 = 94
CES25 = 71	CES50 = 95	CES75 = 92	

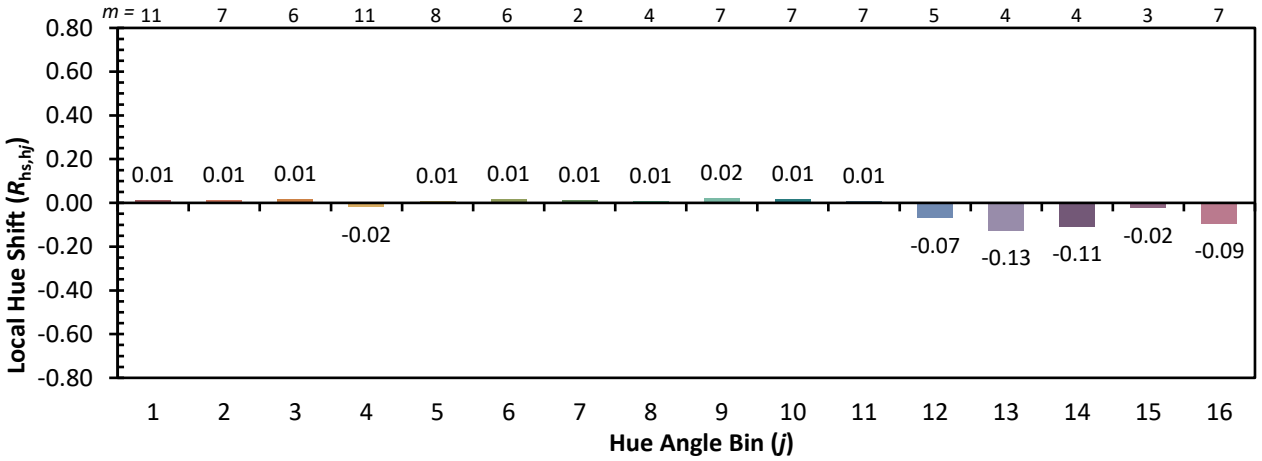


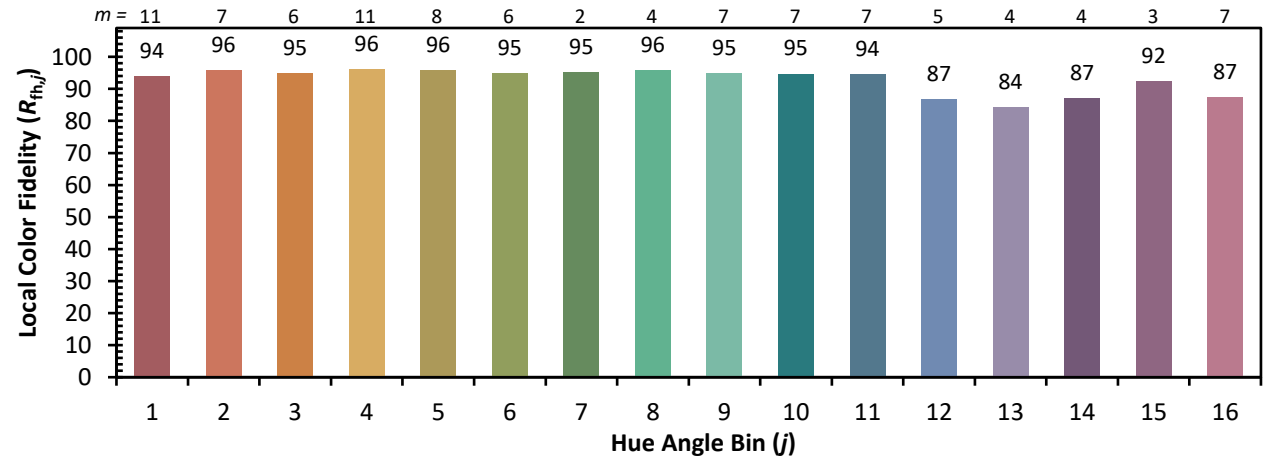
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Color Rendition by Hue-Angle Bin



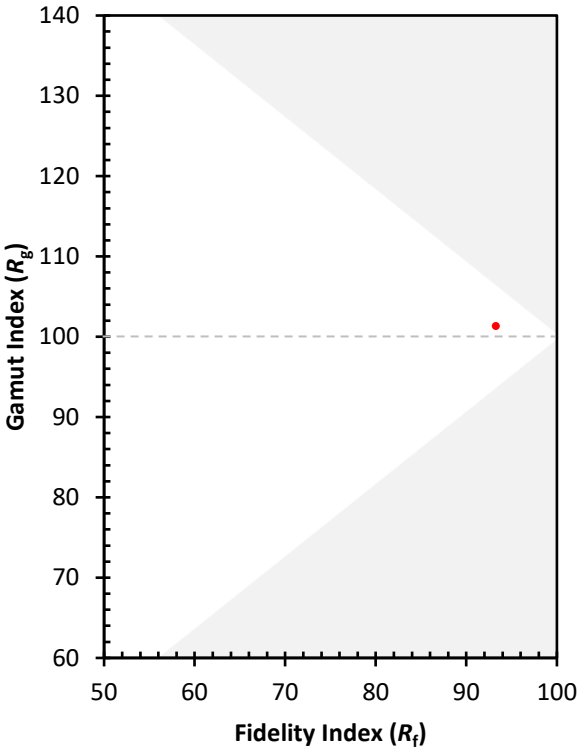


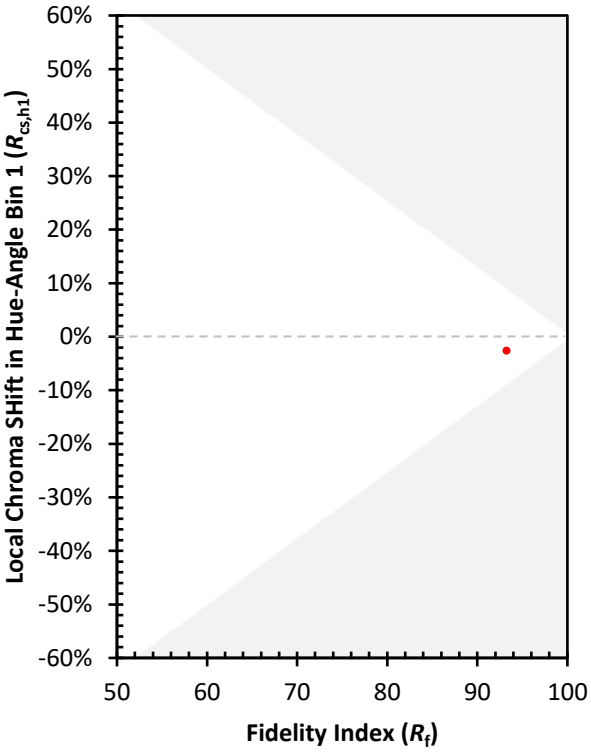


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Measure Comparisons





(END OF REPORT)