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: P1590766

Luminaire Tested: 24CGTX-20-L92765-W2A-5700K

Issue Date: 9/7/2026

Report Generated By 670265710 / DESKTOP-98SHLC4

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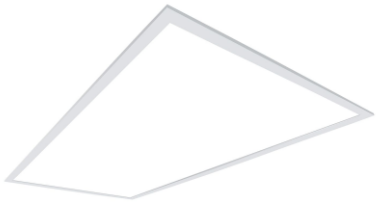
Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1590766
	TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G3-2510-586-4)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	9/7/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	24CGTX-20-L92765-W2A-5700K
Description:	2X4 2000 LUMEN CGTX TROFFER WITH VividTune LEDS AT 5700K CCT WITH FROSTED SMOOTH LENS
Light Source:	5700K CCT, 90 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2158.5 lumens
Efficiency:	N/A
Efficacy:	119.3 lumens/watt
Spacing Criteria (0/90/45):	1.27 / 1.26 / 1.39
Luminous Opening:	Rectangular (W 2' x L: 4' x H: 0')
CIE Type:	Direct
Input Watts (W):	18.1
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

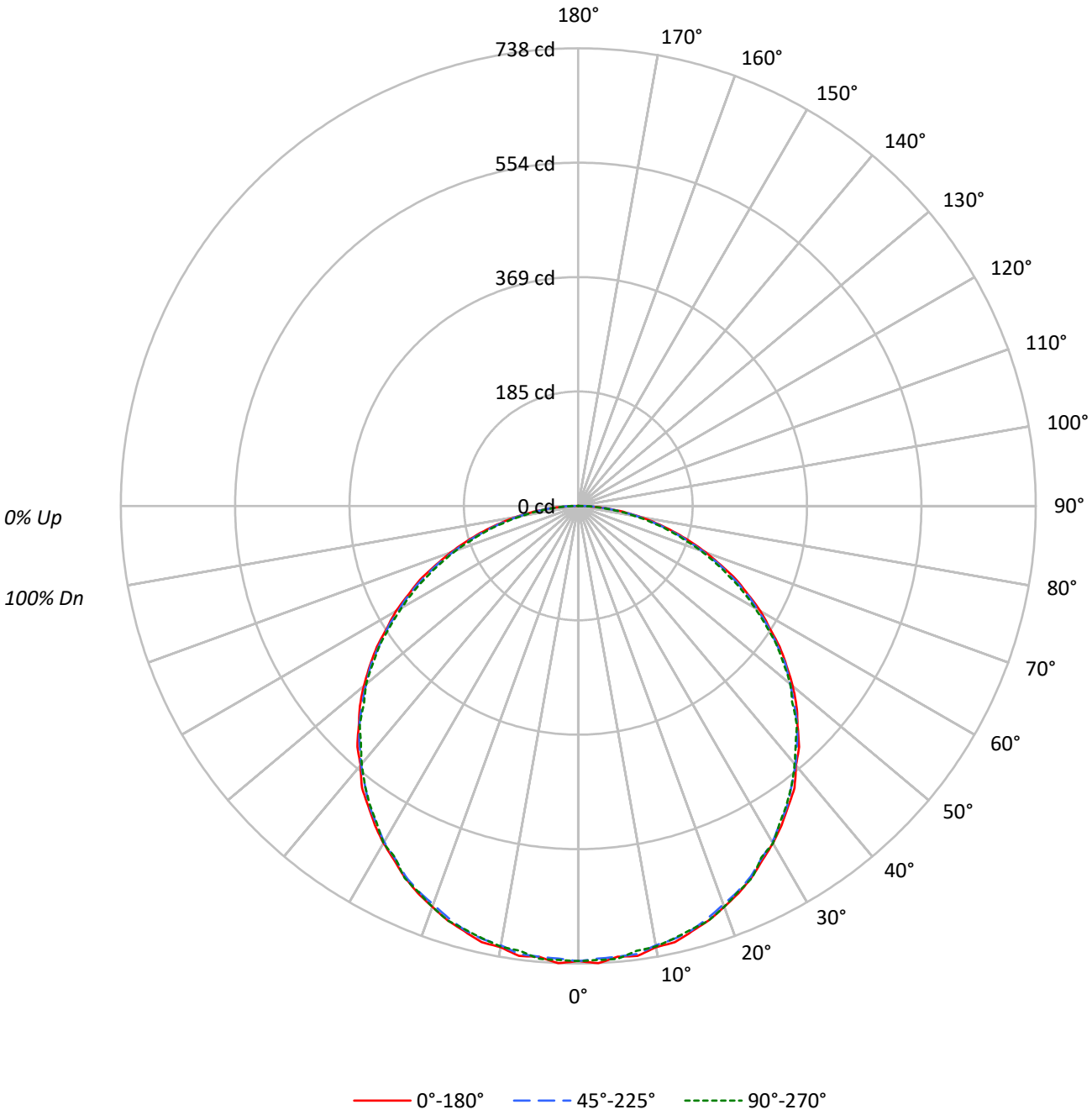


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Scaled Data Report

TEST NUMBER: P1590766
CATALOG NUMBER: 24CGTX-20-L92765-W2A-5700K

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	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	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	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	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	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	988	988	988
5°	986	986	990
10°	987	983	986
15°	989	986	985
20°	986	980	986
25°	982	979	983
30°	976	973	976
35°	970	967	964
40°	959	957	954
45°	952	950	948
50°	945	934	934
55°	930	918	916
60°	914	897	886
65°	896	876	856
70°	858	837	825
75°	820	799	777
80°	773	748	716
85°	689	673	625

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 952 cd/sqm

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TEST NUMBER: P1590766
CATALOG NUMBER: 24CGTX-20-L92765-W2A-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	3.2
10°-20°	199.7	9.3
20°-30°	303.6	14.1
30°-40°	367.7	17.0
40°-50°	384.3	17.8
50°-60°	350.6	16.2
60°-70°	271.6	12.6
70°-80°	162.5	7.5
80°-90°	48.9	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°	572.8	26.5
0°-40°	940.5	43.6
0°-60°	1675.5	77.6
0°-90°	2158.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2158.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	734	734	734	734	734	
5°	730	732	730	732	733	70
15°	710	708	708	707	707	201
25°	661	659	659	657	662	305
35°	591	589	589	587	587	370
45°	500	499	499	496	498	387
55°	397	394	391	389	390	354
65°	281	277	275	272	269	276
75°	158	157	154	150	150	167
85°	45	45	44	42	40	51
90°	0	0	0	0	0	

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TEST NUMBER: P1590766
CATALOG NUMBER: 24CGTX-20-L92765-W2A-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*734.0*	734.0	734.0	734.0	734.0
2.5°	*738.1*	*735.0*	*730.9*	*729.8*	*733.0*
5°	*729.8*	731.9	729.8	731.9	733.0
7.5°	*731.9*	727.8	728.8	722.6	723.6
10°	*722.6*	723.6	719.5	722.6	721.5
12.5°	*720.5*	715.3	715.3	712.2	714.3
15°	*710.1*	708.0	708.0	707.0	707.0
17.5°	*700.8*	699.7	696.6	696.6	700.8
20°	*688.3*	687.3	684.2	685.2	688.3
22.5°	*675.9*	672.7	672.7	670.7	673.8
25°	*661.3*	659.2	659.2	657.2	662.4
27.5°	*643.7*	644.7	640.6	642.6	639.5
30°	*628.1*	626.0	626.0	623.9	628.1
32.5°	*610.4*	609.4	606.3	605.3	605.3
35°	*590.7*	588.6	588.6	586.6	586.6
37.5°	*573.1*	567.9	565.8	564.8	565.8
40°	*546.1*	547.1	545.0	544.0	543.0
42.5°	*527.4*	523.2	522.2	521.2	519.1
45°	*500.4*	499.4	499.4	496.2	498.3
47.5°	*477.6*	475.5	472.4	471.3	468.2
50°	*451.6*	449.5	446.4	445.4	446.4
52.5°	*423.6*	423.6	421.5	418.4	417.3
55°	*396.6*	393.5	391.4	389.3	390.4
57.5°	*365.4*	366.5	363.4	362.3	359.2
60°	*339.5*	337.4	333.3	332.2	329.1
62.5°	*308.3*	308.3	306.3	302.1	300.0
65°	*281.3*	277.2	275.1	272.0	268.9
67.5°	*248.1*	247.1	245.0	239.8	238.8
70°	*218.0*	217.0	212.8	209.7	209.7
72.5°	*187.9*	186.9	182.7	179.6	177.5
75°	*157.8*	156.8	153.6	149.5	149.5
77.5°	*128.7*	129.8	124.6	121.5	119.4
80°	*99.7*	99.7	96.6	93.4	92.4
82.5°	*72.7*	71.6	69.6	67.5	65.4
85°	*44.6*	44.6	43.6	41.5	40.5
87.5°	*20.8*	19.7	18.7	18.7	17.6
90°	*0.0*	0.0	0.0	0.0	0.0

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TEST NUMBER: P1590766
CATALOG NUMBER: 24CGTX-20-L92765-W2A-5700K

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	11.94	13.60	12.30	13.91	14.23	11.85	13.51	12.21	13.82	14.14
	3H	13.85	15.35	14.23	15.68	16.04	13.69	15.20	14.07	15.52	15.88
	4H	14.60	16.02	15.00	16.36	16.74	14.40	15.82	14.80	16.16	16.54
	6H	15.19	16.50	15.60	16.87	17.26	14.94	16.25	15.35	16.62	17.01
	8H	15.39	16.65	15.82	17.04	17.44	15.12	16.38	15.54	16.77	17.17
	12H	15.54	16.74	15.96	17.12	17.55	15.25	16.45	15.68	16.83	17.26
4H	2H	12.59	14.01	12.99	14.36	14.73	12.52	13.94	12.92	14.29	14.66
	3H	14.73	15.92	15.13	16.31	16.71	14.59	15.78	15.00	16.18	16.57
	4H	15.61	16.69	16.04	17.11	17.54	15.42	16.50	15.85	16.92	17.35
	6H	16.35	17.29	16.80	17.73	18.19	16.10	17.05	16.55	17.49	17.94
	8H	16.61	17.49	17.07	17.94	18.40	16.33	17.22	16.79	17.66	18.13
	12H	16.80	17.60	17.28	18.08	18.54	16.51	17.31	16.99	17.78	18.25
8H	4H	15.95	16.83	16.41	17.28	17.74	15.78	16.67	16.24	17.11	17.57
	6H	16.82	17.56	17.31	18.05	18.52	16.59	17.33	17.08	17.82	18.29
	8H	17.17	17.83	17.67	18.34	18.82	16.91	17.57	17.42	18.08	18.56
	12H	17.45	18.03	17.95	18.52	19.08	17.16	17.75	17.67	18.24	18.80
12H	4H	15.99	16.79	16.47	17.26	17.73	15.83	16.63	16.31	17.10	17.57
	6H	16.89	17.55	17.39	18.06	18.54	16.67	17.34	17.18	17.84	18.33
	8H	17.30	17.89	17.80	18.37	18.93	17.05	17.64	17.56	18.13	18.69

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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: SP1-2510-566-15-R2

Test Date: 10/15/2025

Luminaire Tested: 22CGTX-50-L92765-W2A-5700K

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

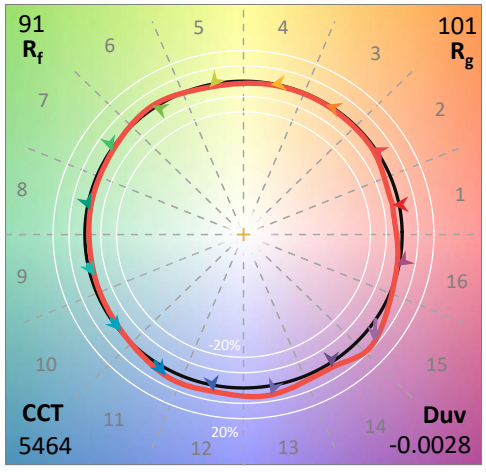
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2510-566-15-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-L92765-W2A-5700K**
Description:	*THIS IS A REVISION OF REPORT SP1-2512-566-15-R2 TO UPDATE THE CATALOG INFORMATION* 2X2 50000 Lumen CGTX TUNABLE WHITE FROM 2700K TO 6500K - 3 V

Spectral Parameters

CCT (K):	5464
CIE u':	0.2093
CIE v':	0.4752
Duv:	-0.0028
CIE x:	0.3332
CIE y:	0.3363
CIE z:	0.3306
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	552
Purity:	0.8453147
Rf:	90.5
Rg:	100.7

CRI (Ra):	95.3				
R1:	97.1	R9:	81.4
R2:	97.2	R10:	91.8
R3:	93.9	R11:	95.7
R4:	97.1	R12:	72.4
R5:	96.2	R13:	98.1
R6:	92.3	R14:	96.0
R7:	95.5	R15:	97.9
R8:	93.3		



Test Conditions

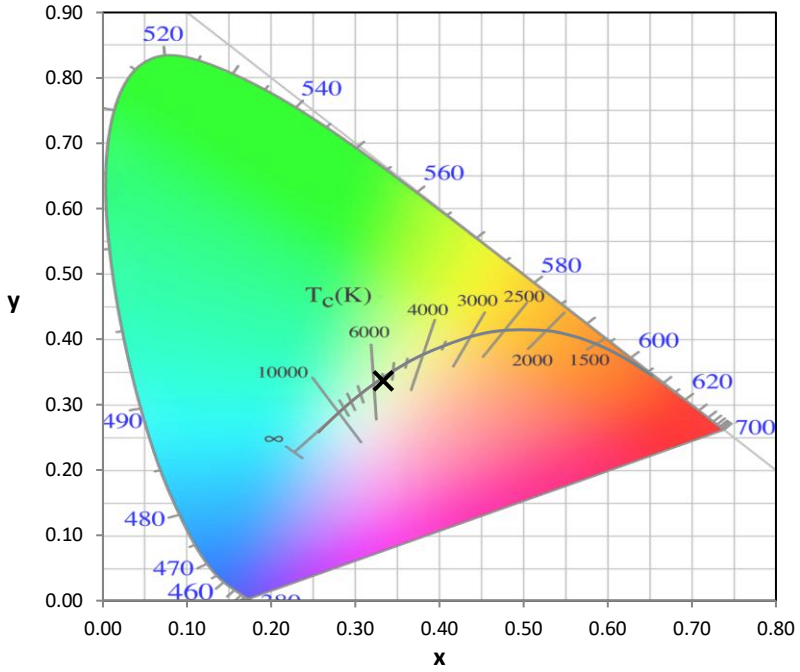
Stabilization Time:	33M
Operation Time:	1H 33M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2510-566-15-R2

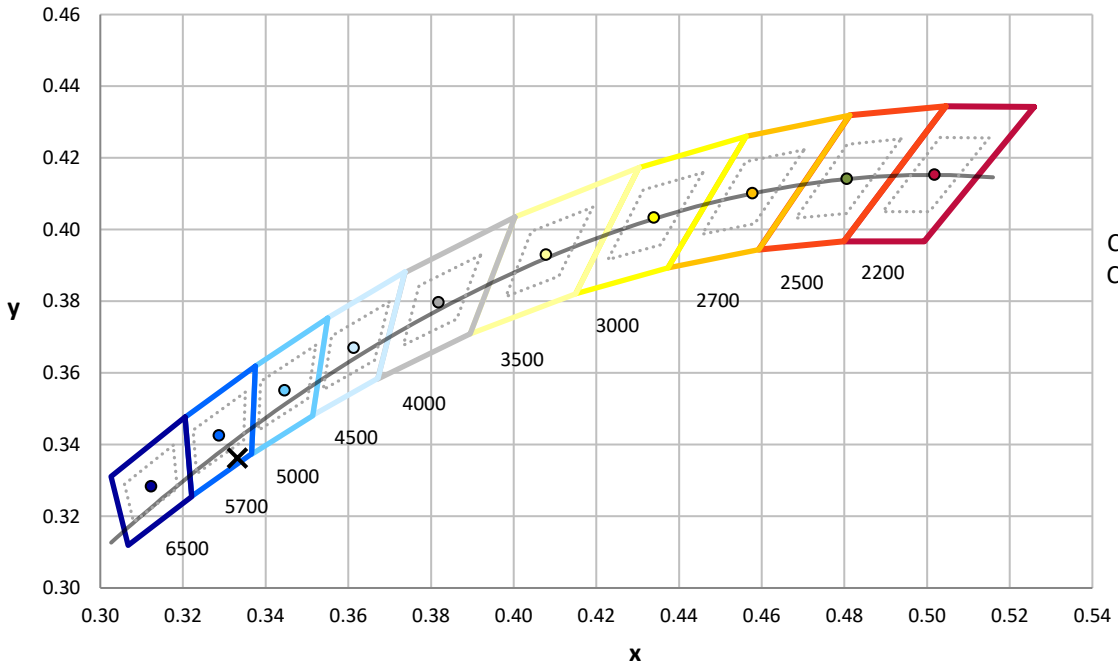
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	10/22/2024	10/22/2025
Sphere Thermometer	ONSET IN0085	10/22/2024	10/22/2025
Room Thermometer	ONSET IN0046	10/22/2024	10/22/2025

REPORT NUMBER: SP1-2510-566-15-R2

CIE 1931 Chromaticity Diagram



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

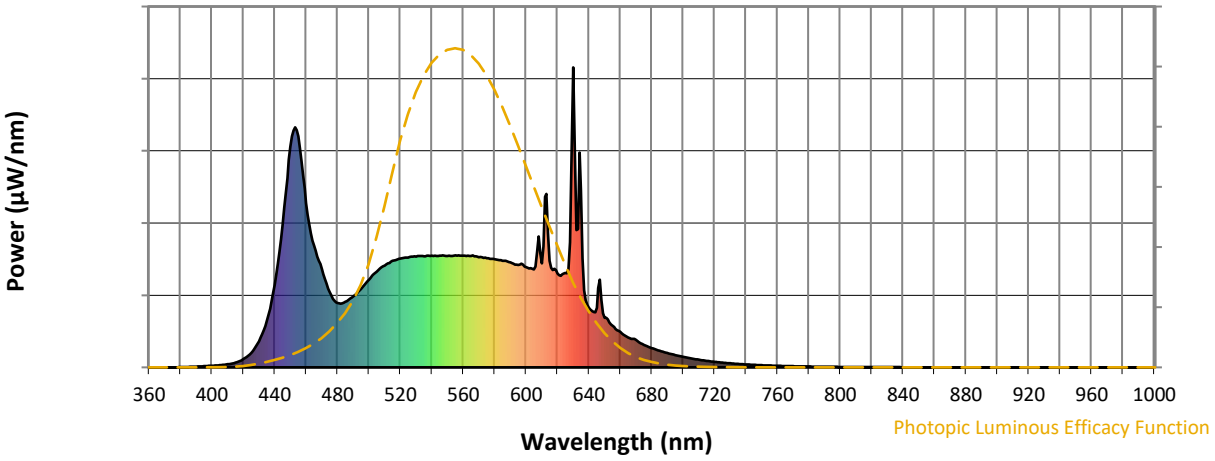


CCT = 5464K
CIE x = 0.3332
CIE y = 0.3363
Duv = -0.0028

Point lies inside the ANSI 5700K 7-step quadrangle

REPORT NUMBER: SP1-2510-566-15-R2

Photopic Flux vs. Wavelength

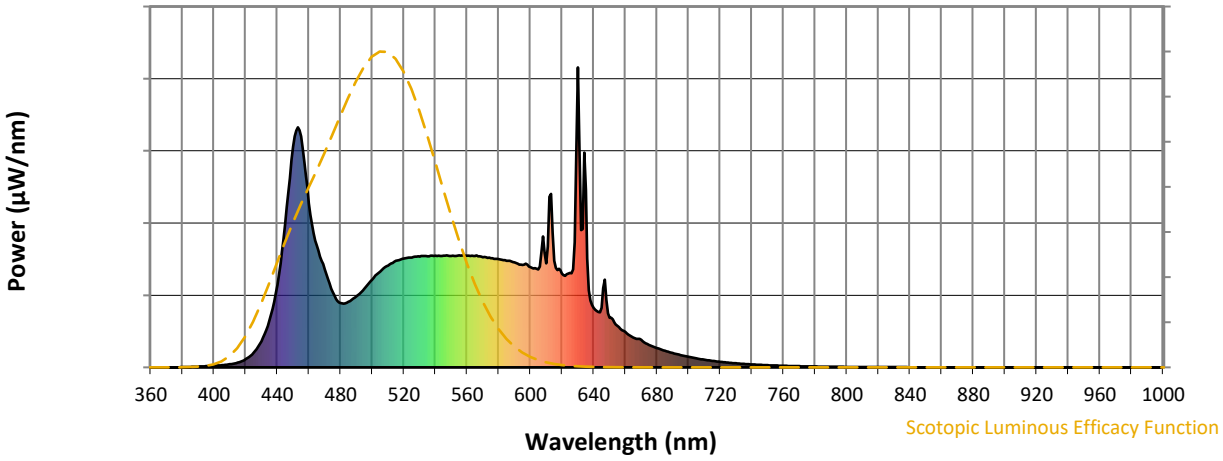


Photopic Lumens: NR

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	237	NR	620	313	NR	750	7	NR	880	0	NR
365	0	NR	495	262	NR	625	315	NR	755	6	NR	885	0	NR
370	0	NR	500	293	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	319	NR	635	592	NR	765	4	NR	895	0	NR
380	1	NR	510	339	NR	640	199	NR	770	4	NR	900	0	NR
385	2	NR	515	355	NR	645	198	NR	775	3	NR	905	0	NR
390	2	NR	520	363	NR	650	166	NR	780	3	NR	910	0	NR
395	4	NR	525	366	NR	655	139	NR	785	2	NR	915	0	NR
400	5	NR	530	369	NR	660	118	NR	790	2	NR	920	0	NR
405	7	NR	535	371	NR	665	100	NR	795	2	NR	925	0	NR
410	10	NR	540	373	NR	670	92	NR	800	2	NR	930	0	NR
415	16	NR	545	372	NR	675	75	NR	805	1	NR	935	0	NR
420	28	NR	550	372	NR	680	64	NR	810	1	NR	940	0	NR
425	48	NR	555	374	NR	685	55	NR	815	1	NR	945	0	NR
430	86	NR	560	372	NR	690	48	NR	820	1	NR	950	0	NR
435	157	NR	565	371	NR	695	41	NR	825	1	NR	955	0	NR
440	274	NR	570	368	NR	700	35	NR	830	1	NR	960	0	NR
445	477	NR	575	364	NR	705	30	NR	835	1	NR	965	0	NR
450	736	NR	580	361	NR	710	25	NR	840	1	NR	970	0	NR
455	770	NR	585	356	NR	715	22	NR	845	0	NR	975	0	NR
460	547	NR	590	351	NR	720	19	NR	850	0	NR	980	0	NR
465	406	NR	595	341	NR	725	16	NR	855	0	NR	985	0	NR
470	327	NR	600	334	NR	730	14	NR	860	0	NR	990	0	NR
475	251	NR	605	327	NR	735	12	NR	865	0	NR	995	0	NR
480	215	NR	610	347	NR	740	10	NR	870	0	NR	1000	0	NR
485	218	NR	615	355	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2510-566-15-R2

Scotopic Flux vs. Wavelength

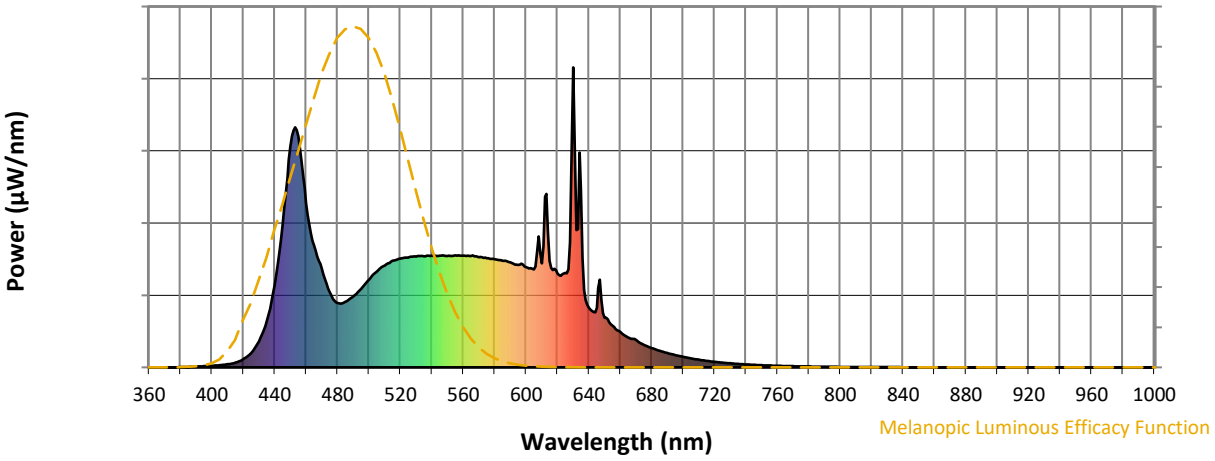


Scotopic Lumens: NR **S/P: 2.18**

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	237	NR	620	313	NR	750	7	NR	880	0	NR
365	0	NR	495	262	NR	625	315	NR	755	6	NR	885	0	NR
370	0	NR	500	293	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	319	NR	635	592	NR	765	4	NR	895	0	NR
380	1	NR	510	339	NR	640	199	NR	770	4	NR	900	0	NR
385	2	NR	515	355	NR	645	198	NR	775	3	NR	905	0	NR
390	2	NR	520	363	NR	650	166	NR	780	3	NR	910	0	NR
395	4	NR	525	366	NR	655	139	NR	785	2	NR	915	0	NR
400	5	NR	530	369	NR	660	118	NR	790	2	NR	920	0	NR
405	7	NR	535	371	NR	665	100	NR	795	2	NR	925	0	NR
410	10	NR	540	373	NR	670	92	NR	800	2	NR	930	0	NR
415	16	NR	545	372	NR	675	75	NR	805	1	NR	935	0	NR
420	28	NR	550	372	NR	680	64	NR	810	1	NR	940	0	NR
425	48	NR	555	374	NR	685	55	NR	815	1	NR	945	0	NR
430	86	NR	560	372	NR	690	48	NR	820	1	NR	950	0	NR
435	157	NR	565	371	NR	695	41	NR	825	1	NR	955	0	NR
440	274	NR	570	368	NR	700	35	NR	830	1	NR	960	0	NR
445	477	NR	575	364	NR	705	30	NR	835	1	NR	965	0	NR
450	736	NR	580	361	NR	710	25	NR	840	1	NR	970	0	NR
455	770	NR	585	356	NR	715	22	NR	845	0	NR	975	0	NR
460	547	NR	590	351	NR	720	19	NR	850	0	NR	980	0	NR
465	406	NR	595	341	NR	725	16	NR	855	0	NR	985	0	NR
470	327	NR	600	334	NR	730	14	NR	860	0	NR	990	0	NR
475	251	NR	605	327	NR	735	12	NR	865	0	NR	995	0	NR
480	215	NR	610	347	NR	740	10	NR	870	0	NR	1000	0	NR
485	218	NR	615	355	NR	745	8	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 4.82**

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	237	NR	620	313	NR	750	7	NR	880	0	NR
365	0	NR	495	262	NR	625	315	NR	755	6	NR	885	0	NR
370	0	NR	500	293	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	319	NR	635	592	NR	765	4	NR	895	0	NR
380	1	NR	510	339	NR	640	199	NR	770	4	NR	900	0	NR
385	2	NR	515	355	NR	645	198	NR	775	3	NR	905	0	NR
390	2	NR	520	363	NR	650	166	NR	780	3	NR	910	0	NR
395	4	NR	525	366	NR	655	139	NR	785	2	NR	915	0	NR
400	5	NR	530	369	NR	660	118	NR	790	2	NR	920	0	NR
405	7	NR	535	371	NR	665	100	NR	795	2	NR	925	0	NR
410	10	NR	540	373	NR	670	92	NR	800	2	NR	930	0	NR
415	16	NR	545	372	NR	675	75	NR	805	1	NR	935	0	NR
420	28	NR	550	372	NR	680	64	NR	810	1	NR	940	0	NR
425	48	NR	555	374	NR	685	55	NR	815	1	NR	945	0	NR
430	86	NR	560	372	NR	690	48	NR	820	1	NR	950	0	NR
435	157	NR	565	371	NR	695	41	NR	825	1	NR	955	0	NR
440	274	NR	570	368	NR	700	35	NR	830	1	NR	960	0	NR
445	477	NR	575	364	NR	705	30	NR	835	1	NR	965	0	NR
450	736	NR	580	361	NR	710	25	NR	840	1	NR	970	0	NR
455	770	NR	585	356	NR	715	22	NR	845	0	NR	975	0	NR
460	547	NR	590	351	NR	720	19	NR	850	0	NR	980	0	NR
465	406	NR	595	341	NR	725	16	NR	855	0	NR	985	0	NR
470	327	NR	600	334	NR	730	14	NR	860	0	NR	990	0	NR
475	251	NR	605	327	NR	735	12	NR	865	0	NR	995	0	NR
480	215	NR	610	347	NR	740	10	NR	870	0	NR	1000	0	NR
485	218	NR	615	355	NR	745	8	NR	875	0	NR			

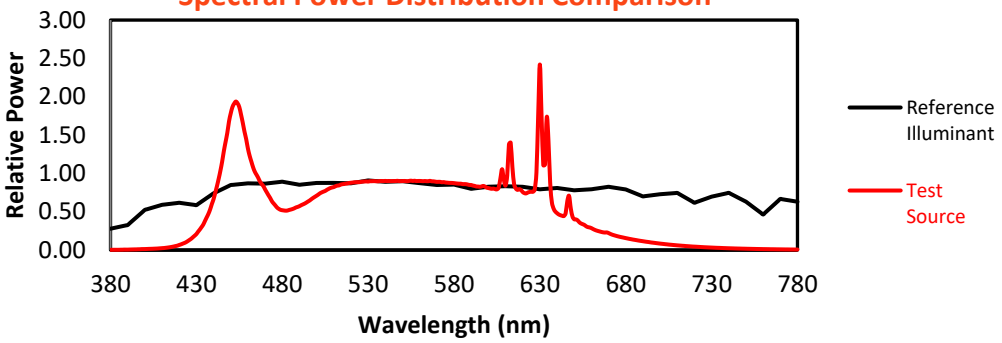
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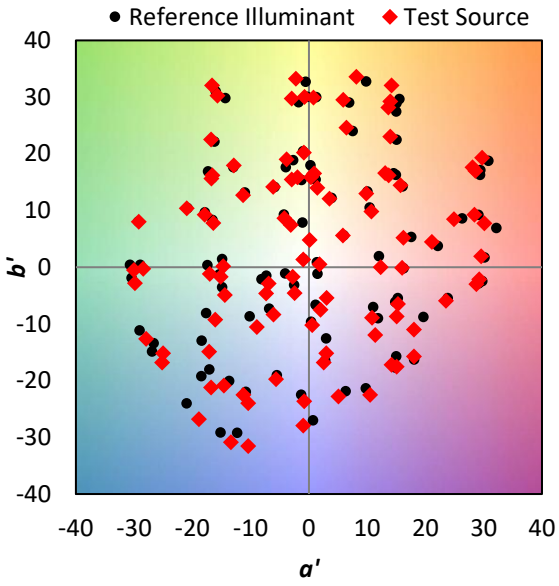
Summary

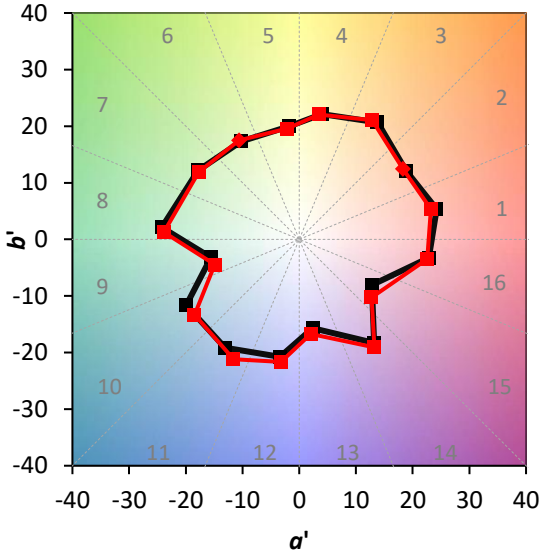
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R_g = 100.7
CIE R_a = 95.3
R_9 = 81.4

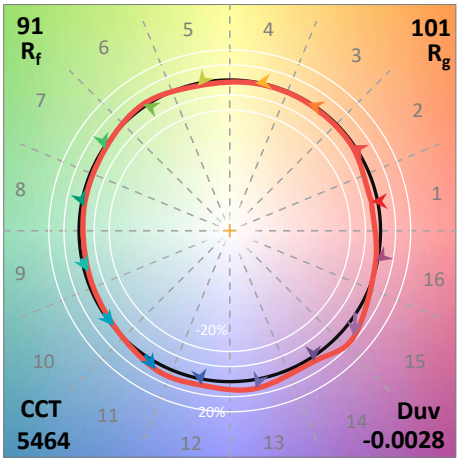
Spectral Power Distribution Comparison

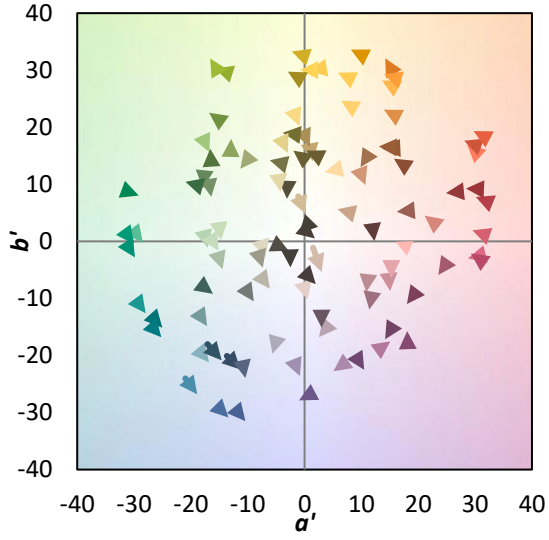


Color Vector Graphics







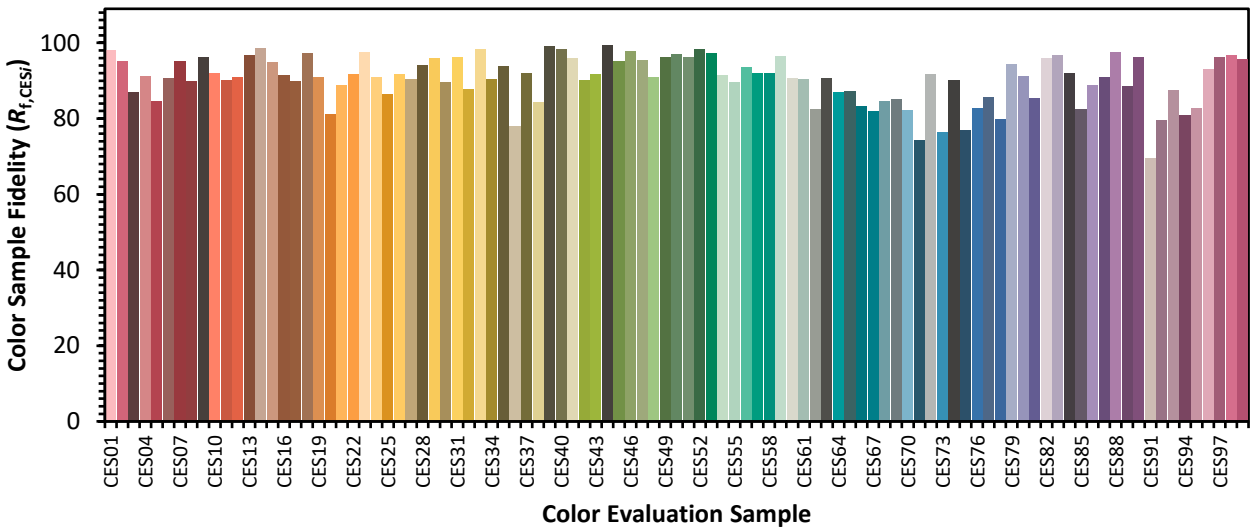


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Individual Sample Fidelity Index ($R_{f,i}$)

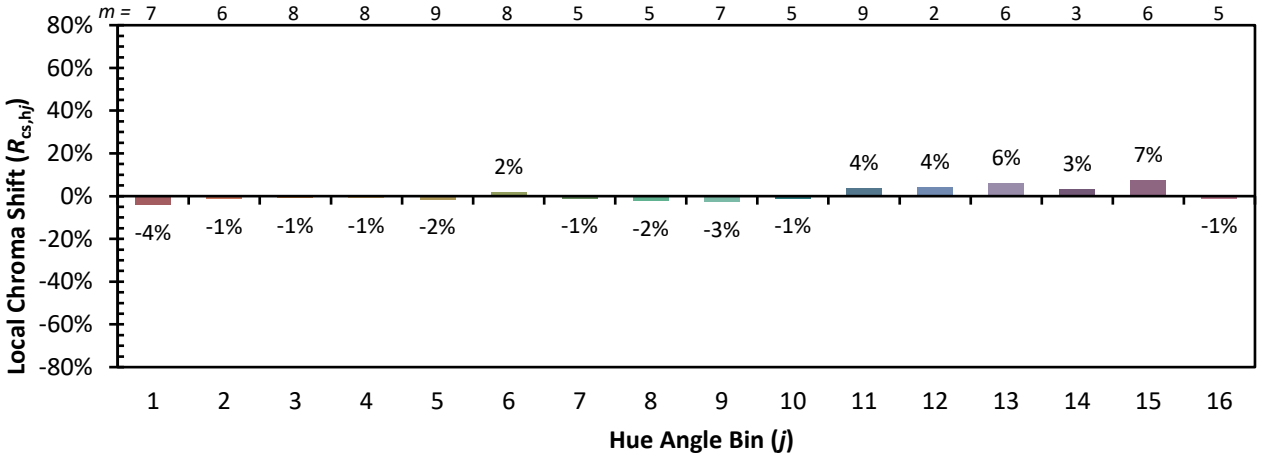
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CES02 = 61	CES27 = 90	CES52 = 98	CES77 = 86
CES03 = 31	CES28 = 94	CES53 = 97	CES78 = 80
CES04 = 68	CES29 = 96	CES54 = 92	CES79 = 94
CES05 = 48	CES30 = 90	CES55 = 90	CES80 = 91
CES06 = 50	CES31 = 96	CES56 = 94	CES81 = 86
CES07 = 41	CES32 = 88	CES57 = 92	CES82 = 96
CES08 = 40	CES33 = 98	CES58 = 92	CES83 = 97
CES09 = 29	CES34 = 90	CES59 = 97	CES84 = 92
CES10 = 73	CES35 = 94	CES60 = 91	CES85 = 83
CES11 = 56	CES36 = 78	CES61 = 90	CES86 = 89
CES12 = 62	CES37 = 92	CES62 = 82	CES87 = 91
CES13 = 42	CES38 = 84	CES63 = 91	CES88 = 98
CES14 = 74	CES39 = 99	CES64 = 87	CES89 = 89
CES15 = 71	CES40 = 98	CES65 = 87	CES90 = 96
CES16 = 46	CES41 = 96	CES66 = 83	CES91 = 70
CES17 = 48	CES42 = 90	CES67 = 82	CES92 = 80
CES18 = 56	CES43 = 92	CES68 = 85	CES93 = 87
CES19 = 70	CES44 = 99	CES69 = 85	CES94 = 81
CES20 = 65	CES45 = 95	CES70 = 82	CES95 = 83
CES21 = 84	CES46 = 98	CES71 = 74	CES96 = 93
CES22 = 77	CES47 = 95	CES72 = 92	CES97 = 96
CES23 = 91	CES48 = 91	CES73 = 76	CES98 = 97
CES24 = 90	CES49 = 96	CES74 = 90	CES99 = 96
CES25 = 70	CES50 = 97	CES75 = 77	

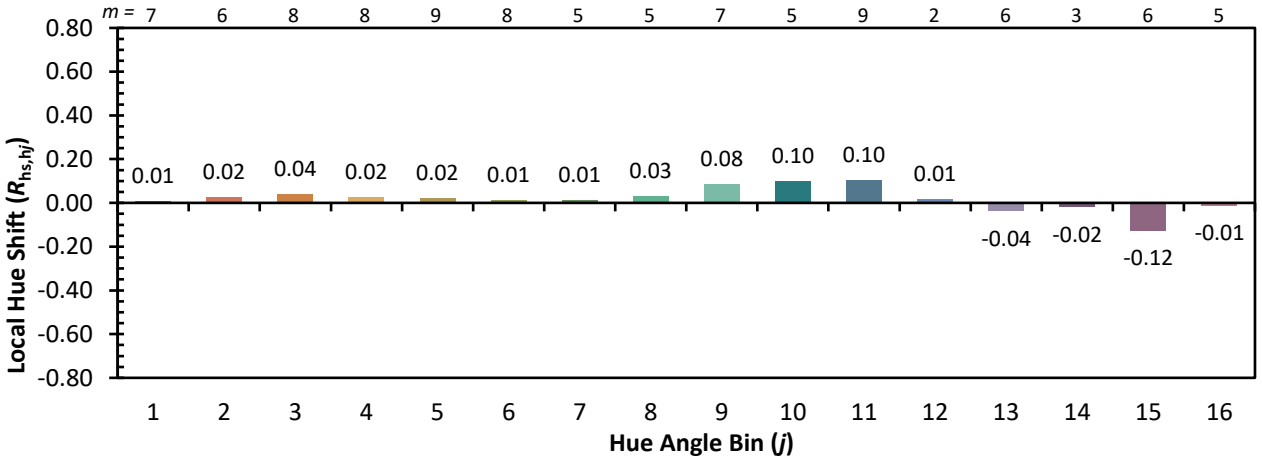


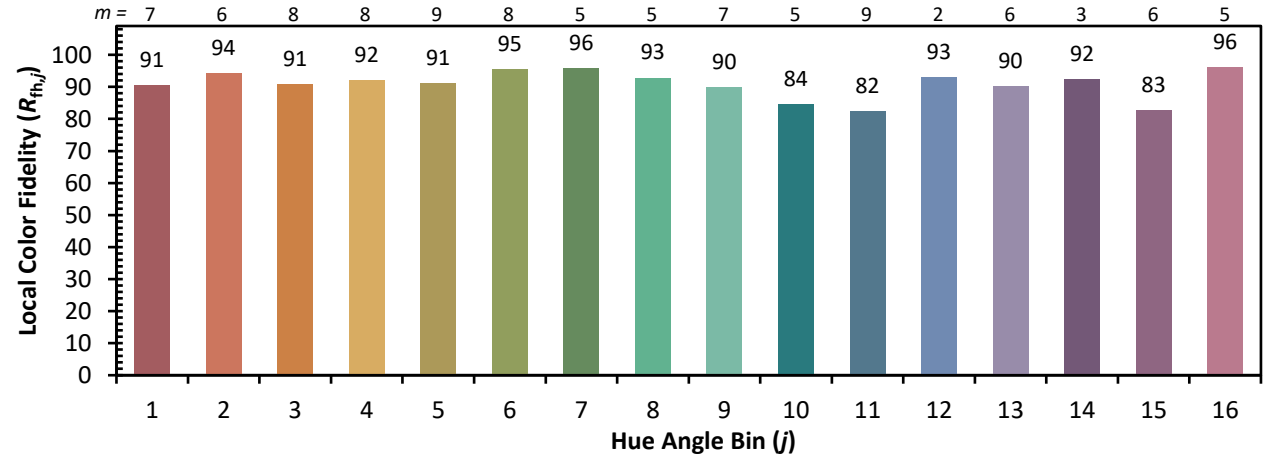
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Color Rendition by Hue-Angle Bin



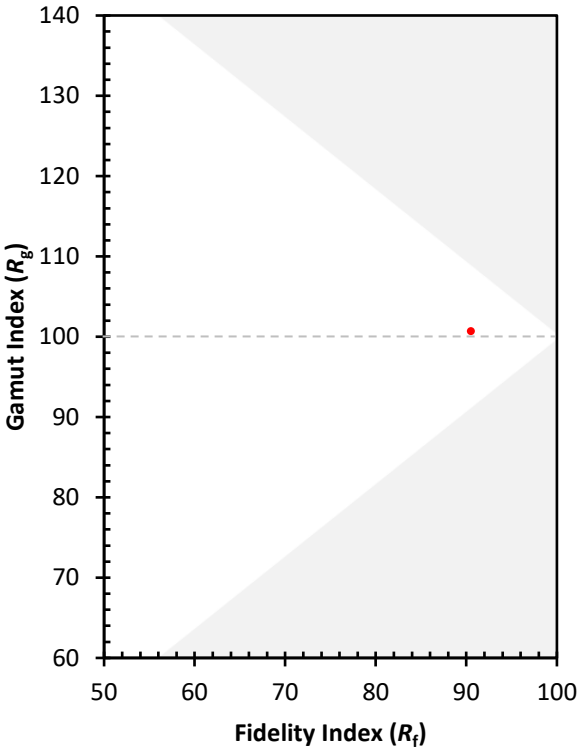


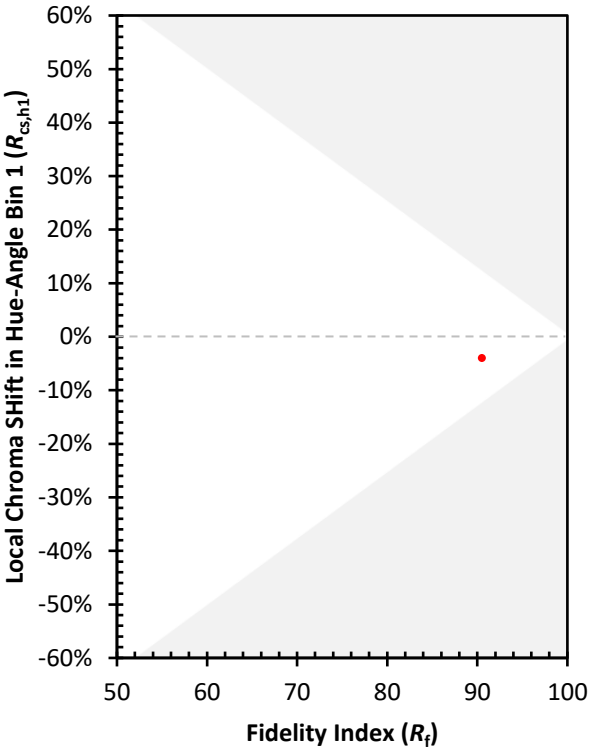


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Measure Comparisons





(END OF REPORT)