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: P1590764

Luminaire Tested: 24CGTX-20-L92765-W2A-4500K

Issue Date: 9/7/2026

Report Generated By 670265710 / DESKTOP-98SHLC4

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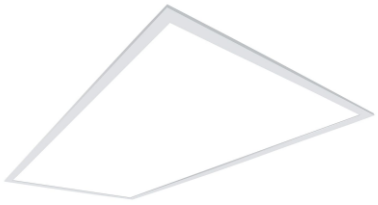
Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1590764
	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-4500K
Description:	2X4 2000 LUMEN CGTX TROFFER WITH VividTune LEDS AT 4500K CCT WITH FROSTED SMOOTH LENS
Light Source:	4500K CCT, 90 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2125.6 lumens
Efficiency:	N/A
Efficacy:	117.4 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

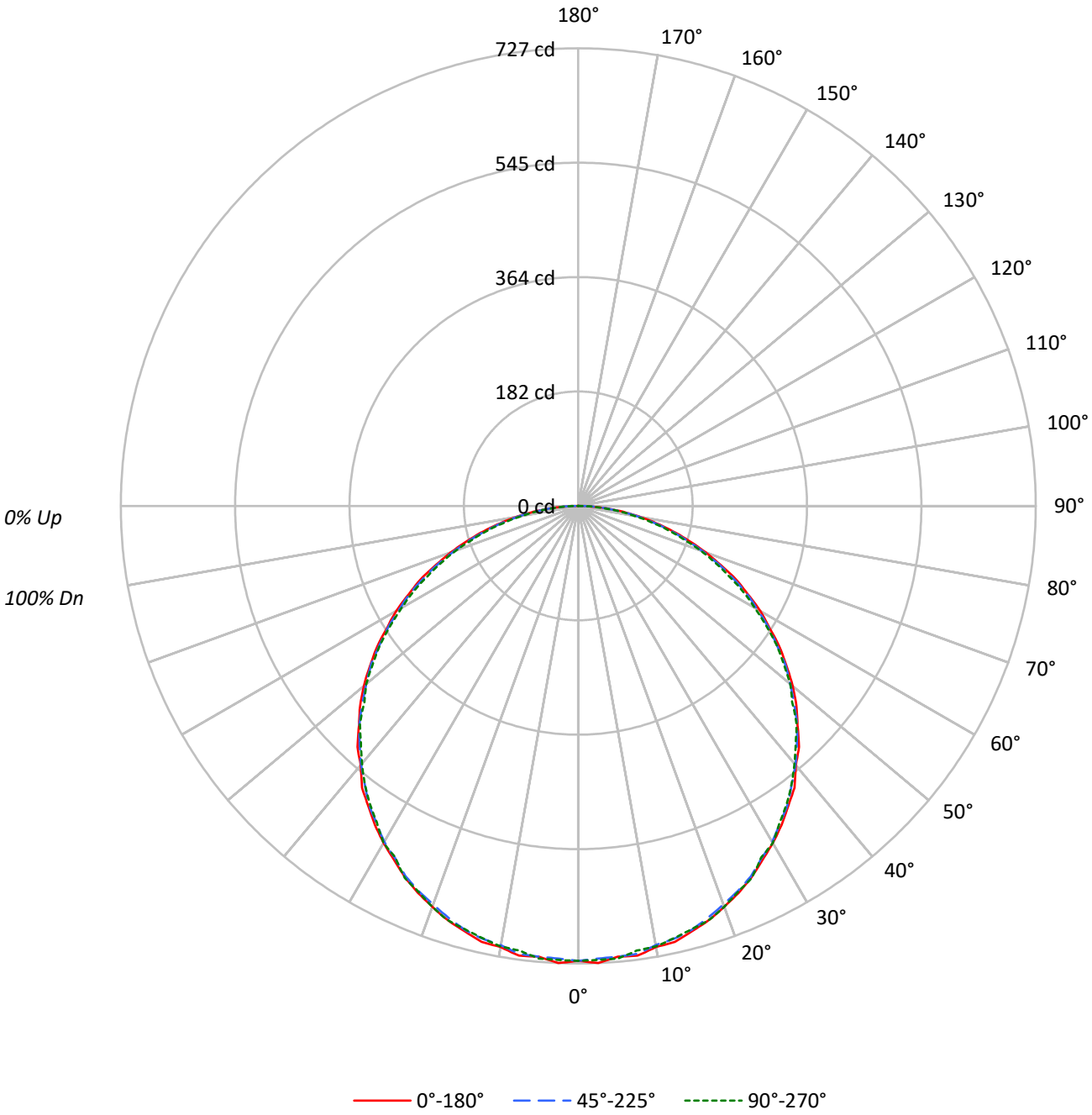


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Scaled Data Report

TEST NUMBER: P1590764
CATALOG NUMBER: 24CGTX-20-L92765-W2A-4500K

Luminous Intensity Polar Plot



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TEST NUMBER: P1590764
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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°	973	973	973
5°	971	971	975
10°	972	968	971
15°	974	971	970
20°	971	965	971
25°	967	964	968
30°	961	958	961
35°	955	952	949
40°	944	943	939
45°	938	936	934
50°	931	920	920
55°	916	904	902
60°	900	883	872
65°	882	862	843
70°	845	825	812
75°	808	787	765
80°	760	737	705
85°	679	662	616

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 938 cd/sqm

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TEST NUMBER: P1590764
CATALOG NUMBER: 24CGTX-20-L92765-W2A-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.4	3.2
10°-20°	196.7	9.3
20°-30°	299.0	14.1
30°-40°	362.1	17.0
40°-50°	378.5	17.8
50°-60°	345.2	16.2
60°-70°	267.5	12.6
70°-80°	160.0	7.5
80°-90°	48.2	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°	564.0	26.5
0°-40°	926.2	43.6
0°-60°	1649.9	77.6
0°-90°	2125.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2125.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	723	723	723	723	723	
5°	719	721	719	721	722	69
15°	699	697	697	696	696	197
25°	651	649	649	647	652	300
35°	582	580	580	578	578	364
45°	493	492	492	489	491	381
55°	390	388	385	383	384	348
65°	277	273	271	268	265	272
75°	155	154	151	147	147	164
85°	44	44	43	41	40	50
90°	0	0	0	0	0	

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TEST NUMBER: P1590764
CATALOG NUMBER: 24CGTX-20-L92765-W2A-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*722.8*	722.8	722.8	722.8	722.8
2.5°	*726.9*	*723.8*	*719.7*	*718.7*	*721.8*
5°	*718.7*	720.7	718.7	720.7	721.8
7.5°	*720.7*	716.6	717.7	711.5	712.6
10°	*711.5*	712.6	708.5	711.5	710.5
12.5°	*709.5*	704.4	704.4	701.3	703.4
15°	*699.3*	697.2	697.2	696.2	696.2
17.5°	*690.1*	689.0	686.0	686.0	690.1
20°	*677.8*	676.8	673.7	674.7	677.8
22.5°	*665.5*	662.5	662.5	660.4	663.5
25°	*651.2*	649.2	649.2	647.1	652.2
27.5°	*633.8*	634.9	630.8	632.8	629.7
30°	*618.5*	616.5	616.5	614.4	618.5
32.5°	*601.1*	600.1	597.0	596.0	596.0
35°	*581.7*	579.7	579.7	577.6	577.6
37.5°	*564.3*	559.2	557.2	556.1	557.2
40°	*537.7*	538.8	536.7	535.7	534.7
42.5°	*519.3*	515.2	514.2	513.2	511.2
45°	*492.8*	491.7	491.7	488.7	490.7
47.5°	*470.3*	468.2	465.2	464.1	461.1
50°	*444.7*	442.7	439.6	438.6	439.6
52.5°	*417.1*	417.1	415.1	412.0	411.0
55°	*390.5*	387.5	385.4	383.4	384.4
57.5°	*359.9*	360.9	357.8	356.8	353.7
60°	*334.3*	332.3	328.2	327.1	324.1
62.5°	*303.6*	303.6	301.6	297.5	295.4
65°	*277.0*	273.0	270.9	267.8	264.8
67.5°	*244.3*	243.3	241.3	236.2	235.1
70°	*214.7*	213.7	209.6	206.5	206.5
72.5°	*185.0*	184.0	179.9	176.9	174.8
75°	*155.4*	154.4	151.3	147.2	147.2
77.5°	*126.8*	127.8	122.7	119.6	117.6
80°	*98.1*	98.1	95.1	92.0	91.0
82.5°	*71.6*	70.5	68.5	66.5	64.4
85°	*44.0*	44.0	42.9	40.9	39.9
87.5°	*20.4*	19.4	18.4	18.4	17.4
90°	*0.0*	0.0	0.0	0.0	0.0

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TEST NUMBER: P1590764
CATALOG NUMBER: 24CGTX-20-L92765-W2A-4500K

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	11.89	13.54	12.25	13.86	14.17	11.80	13.45	12.16	13.77	14.08
	3H	13.80	15.30	14.17	15.63	15.99	13.64	15.14	14.02	15.47	15.83
	4H	14.54	15.96	14.94	16.31	16.68	14.35	15.76	14.74	16.11	16.49
	6H	15.13	16.45	15.54	16.81	17.20	14.89	16.20	15.30	16.57	16.96
	8H	15.34	16.60	15.76	16.99	17.38	15.07	16.33	15.49	16.71	17.11
	12H	15.48	16.69	15.91	17.07	17.50	15.19	16.40	15.62	16.78	17.21
4H	2H	12.54	13.96	12.94	14.30	14.68	12.47	13.89	12.87	14.23	14.61
	3H	14.67	15.86	15.08	16.26	16.66	14.53	15.73	14.94	16.12	16.52
	4H	15.56	16.64	15.99	17.05	17.49	15.37	16.45	15.80	16.86	17.30
	6H	16.29	17.24	16.75	17.68	18.13	16.05	16.99	16.50	17.43	17.89
	8H	16.55	17.44	17.01	17.88	18.35	16.28	17.17	16.74	17.61	18.07
	12H	16.75	17.55	17.23	18.02	18.49	16.45	17.25	16.93	17.73	18.20
8H	4H	15.89	16.78	16.35	17.22	17.69	15.73	16.62	16.19	17.06	17.52
	6H	16.77	17.51	17.26	17.99	18.47	16.54	17.28	17.03	17.76	18.24
	8H	17.11	17.78	17.62	18.28	18.77	16.86	17.52	17.36	18.02	18.51
	12H	17.39	17.98	17.90	18.47	19.03	17.11	17.70	17.62	18.19	18.75
12H	4H	15.94	16.73	16.41	17.21	17.68	15.78	16.58	16.26	17.05	17.52
	6H	16.83	17.50	17.34	18.00	18.49	16.62	17.28	17.12	17.79	18.27
	8H	17.24	17.83	17.75	18.32	18.88	17.00	17.59	17.50	18.08	18.63

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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: SP1-2510-566-12-R2

Test Date: 10/14/2025

Luminaire Tested: 22CGTX-50-L92765-W2A-4500K

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

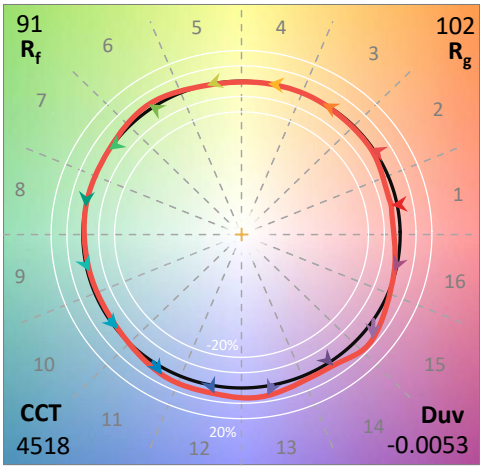
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2510-566-12-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-4500K**
Description:	*THIS IS A REVISION OF REPORT SP1-2512-566-12-R2 TO UPDATE THE CATALOG INFORMATION* 2X2 50000 Lumen CGTX TUNABLE WHITE FROM 2700K TO 6500K - 4.5 V

Spectral Parameters

CCT (K):	4518
CIE u':	0.2205
CIE v':	0.4863
Duv:	-0.0053
CIE x:	0.3580
CIE y:	0.3509
CIE z:	0.2911
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	582
Purity:	12.71062
Rf:	91.1
Rg:	102

CRI (Ra):	96.1				
R1:	97.8	R9:	83.9		
R2:	98.1	R10:	94.2		
R3:	94.9	R11:	95.5		
R4:	97.7	R12:	73.6		
R5:	97.3	R13:	98.9		
R6:	93.5	R14:	96.3		
R7:	95.7	R15:	98.1		
R8:	93.8				



Test Conditions

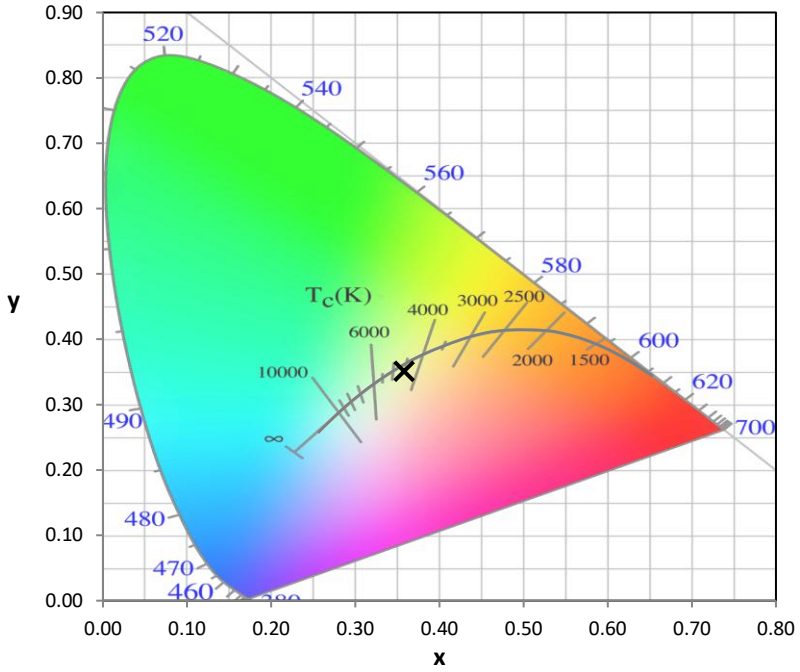
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2510-566-12-R2

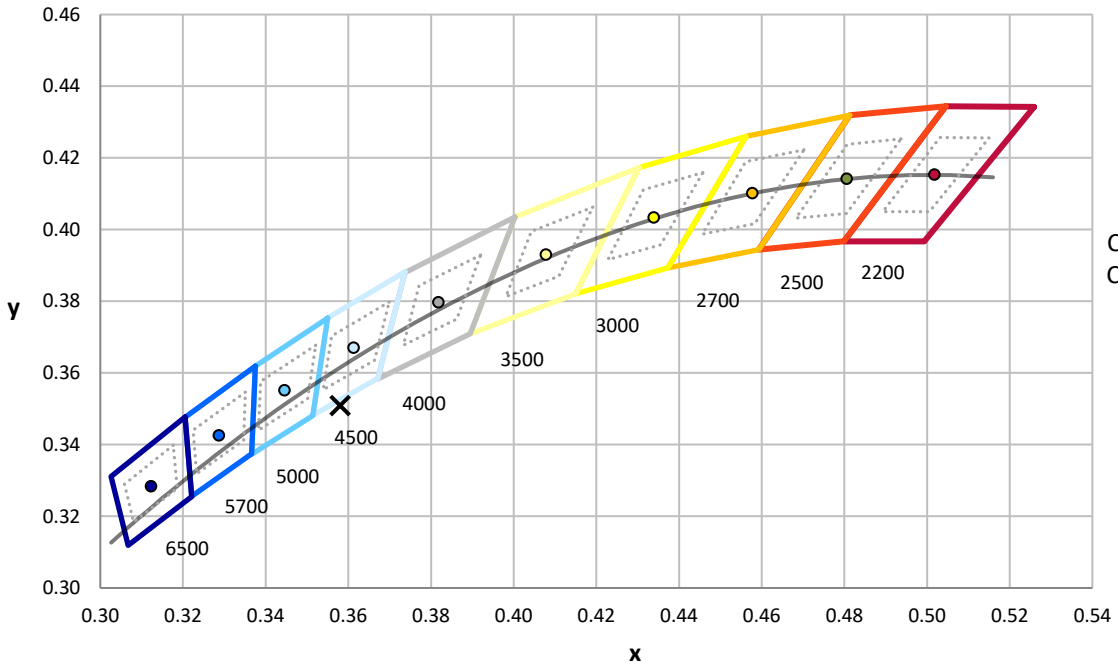
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2510-566-12-R2

CIE 1931 Chromaticity Diagram



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

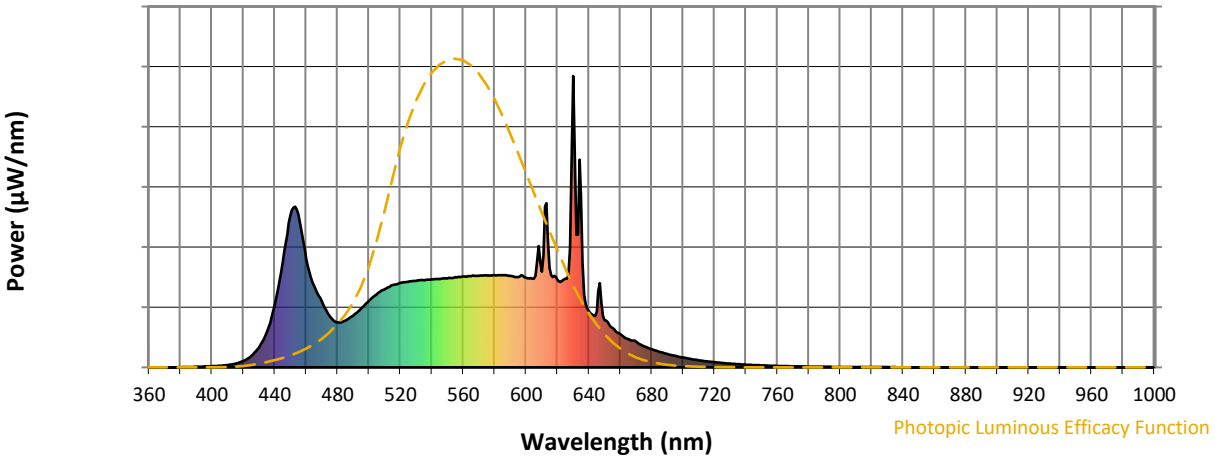


CCT = 4518K
CIE x = 0.3580
CIE y = 0.3509
Duv = -0.0053

Point lies outside the range

REPORT NUMBER: SP1-2510-566-12-R2

Photopic Flux vs. Wavelength

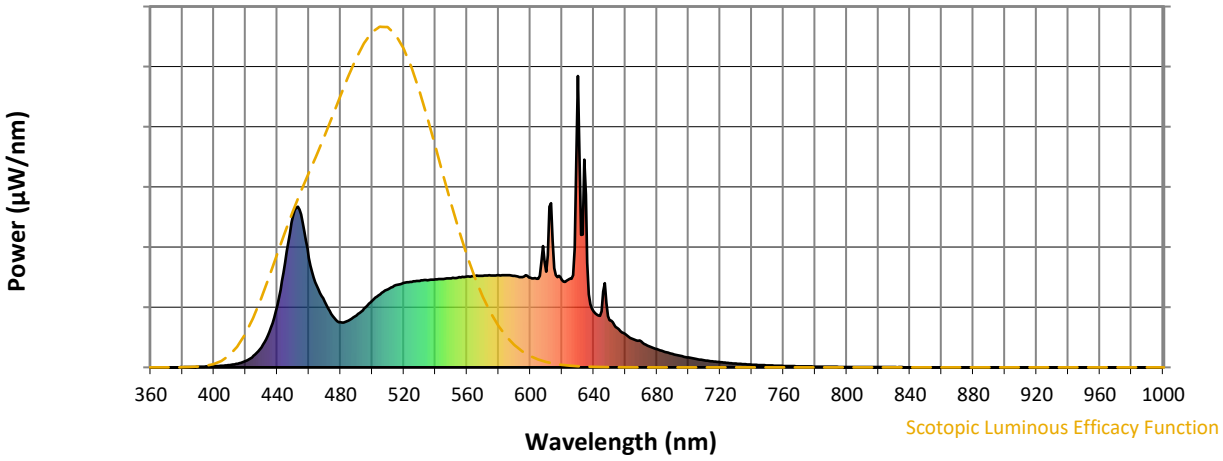


Photopic Lumens: NR

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	178	NR	620	299	NR	750	7	NR	880	0	NR
365	0	NR	495	202	NR	625	304	NR	755	6	NR	885	0	NR
370	0	NR	500	228	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	251	NR	635	592	NR	765	4	NR	895	0	NR
380	1	NR	510	268	NR	640	192	NR	770	4	NR	900	0	NR
385	1	NR	515	282	NR	645	192	NR	775	3	NR	905	0	NR
390	2	NR	520	290	NR	650	161	NR	780	3	NR	910	0	NR
395	3	NR	525	293	NR	655	135	NR	785	2	NR	915	0	NR
400	4	NR	530	296	NR	660	115	NR	790	2	NR	920	0	NR
405	6	NR	535	299	NR	665	96	NR	795	2	NR	925	0	NR
410	8	NR	540	302	NR	670	89	NR	800	1	NR	930	0	NR
415	13	NR	545	304	NR	675	73	NR	805	1	NR	935	0	NR
420	22	NR	550	306	NR	680	62	NR	810	1	NR	940	0	NR
425	39	NR	555	310	NR	685	53	NR	815	1	NR	945	0	NR
430	69	NR	560	312	NR	690	46	NR	820	1	NR	950	0	NR
435	122	NR	565	313	NR	695	39	NR	825	1	NR	955	0	NR
440	213	NR	570	314	NR	700	34	NR	830	1	NR	960	0	NR
445	359	NR	575	315	NR	705	29	NR	835	1	NR	965	0	NR
450	521	NR	580	316	NR	710	25	NR	840	1	NR	970	0	NR
455	526	NR	585	316	NR	715	21	NR	845	0	NR	975	0	NR
460	375	NR	590	315	NR	720	18	NR	850	0	NR	980	0	NR
465	280	NR	595	309	NR	725	15	NR	855	0	NR	985	0	NR
470	225	NR	600	307	NR	730	13	NR	860	0	NR	990	0	NR
475	176	NR	605	304	NR	735	11	NR	865	0	NR	995	0	NR
480	155	NR	610	328	NR	740	9	NR	870	0	NR	1000	0	NR
485	161	NR	615	340	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2510-566-12-R2

Scotopic Flux vs. Wavelength

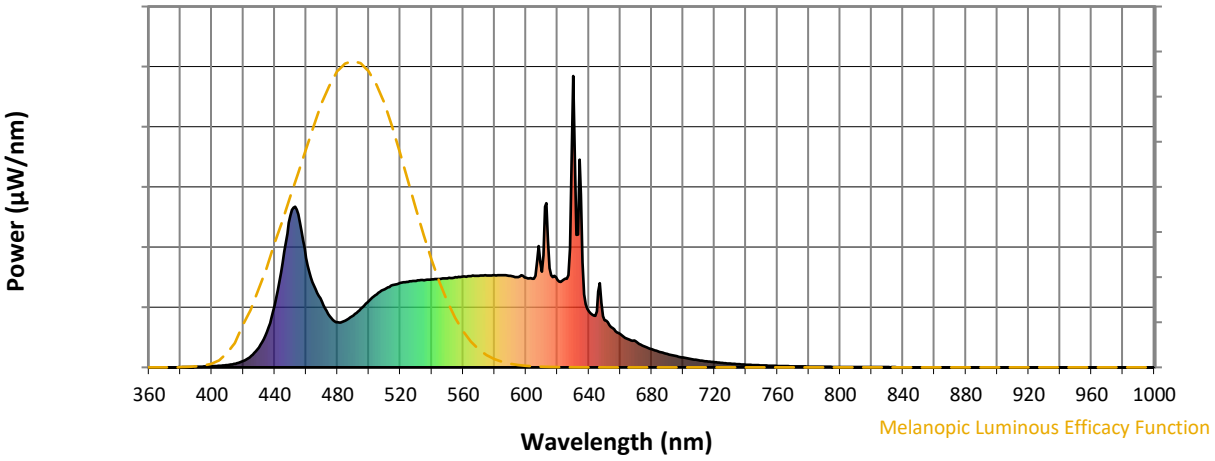


Scotopic Lumens: NR **S/P: 1.97**

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	178	NR	620	299	NR	750	7	NR	880	0	NR
365	0	NR	495	202	NR	625	304	NR	755	6	NR	885	0	NR
370	0	NR	500	228	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	251	NR	635	592	NR	765	4	NR	895	0	NR
380	1	NR	510	268	NR	640	192	NR	770	4	NR	900	0	NR
385	1	NR	515	282	NR	645	192	NR	775	3	NR	905	0	NR
390	2	NR	520	290	NR	650	161	NR	780	3	NR	910	0	NR
395	3	NR	525	293	NR	655	135	NR	785	2	NR	915	0	NR
400	4	NR	530	296	NR	660	115	NR	790	2	NR	920	0	NR
405	6	NR	535	299	NR	665	96	NR	795	2	NR	925	0	NR
410	8	NR	540	302	NR	670	89	NR	800	1	NR	930	0	NR
415	13	NR	545	304	NR	675	73	NR	805	1	NR	935	0	NR
420	22	NR	550	306	NR	680	62	NR	810	1	NR	940	0	NR
425	39	NR	555	310	NR	685	53	NR	815	1	NR	945	0	NR
430	69	NR	560	312	NR	690	46	NR	820	1	NR	950	0	NR
435	122	NR	565	313	NR	695	39	NR	825	1	NR	955	0	NR
440	213	NR	570	314	NR	700	34	NR	830	1	NR	960	0	NR
445	359	NR	575	315	NR	705	29	NR	835	1	NR	965	0	NR
450	521	NR	580	316	NR	710	25	NR	840	1	NR	970	0	NR
455	526	NR	585	316	NR	715	21	NR	845	0	NR	975	0	NR
460	375	NR	590	315	NR	720	18	NR	850	0	NR	980	0	NR
465	280	NR	595	309	NR	725	15	NR	855	0	NR	985	0	NR
470	225	NR	600	307	NR	730	13	NR	860	0	NR	990	0	NR
475	176	NR	605	304	NR	735	11	NR	865	0	NR	995	0	NR
480	155	NR	610	328	NR	740	9	NR	870	0	NR	1000	0	NR
485	161	NR	615	340	NR	745	8	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 4.25**

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	178	NR	620	299	NR	750	7	NR	880	0	NR
365	0	NR	495	202	NR	625	304	NR	755	6	NR	885	0	NR
370	0	NR	500	228	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	251	NR	635	592	NR	765	4	NR	895	0	NR
380	1	NR	510	268	NR	640	192	NR	770	4	NR	900	0	NR
385	1	NR	515	282	NR	645	192	NR	775	3	NR	905	0	NR
390	2	NR	520	290	NR	650	161	NR	780	3	NR	910	0	NR
395	3	NR	525	293	NR	655	135	NR	785	2	NR	915	0	NR
400	4	NR	530	296	NR	660	115	NR	790	2	NR	920	0	NR
405	6	NR	535	299	NR	665	96	NR	795	2	NR	925	0	NR
410	8	NR	540	302	NR	670	89	NR	800	1	NR	930	0	NR
415	13	NR	545	304	NR	675	73	NR	805	1	NR	935	0	NR
420	22	NR	550	306	NR	680	62	NR	810	1	NR	940	0	NR
425	39	NR	555	310	NR	685	53	NR	815	1	NR	945	0	NR
430	69	NR	560	312	NR	690	46	NR	820	1	NR	950	0	NR
435	122	NR	565	313	NR	695	39	NR	825	1	NR	955	0	NR
440	213	NR	570	314	NR	700	34	NR	830	1	NR	960	0	NR
445	359	NR	575	315	NR	705	29	NR	835	1	NR	965	0	NR
450	521	NR	580	316	NR	710	25	NR	840	1	NR	970	0	NR
455	526	NR	585	316	NR	715	21	NR	845	0	NR	975	0	NR
460	375	NR	590	315	NR	720	18	NR	850	0	NR	980	0	NR
465	280	NR	595	309	NR	725	15	NR	855	0	NR	985	0	NR
470	225	NR	600	307	NR	730	13	NR	860	0	NR	990	0	NR
475	176	NR	605	304	NR	735	11	NR	865	0	NR	995	0	NR
480	155	NR	610	328	NR	740	9	NR	870	0	NR	1000	0	NR
485	161	NR	615	340	NR	745	8	NR	875	0	NR			

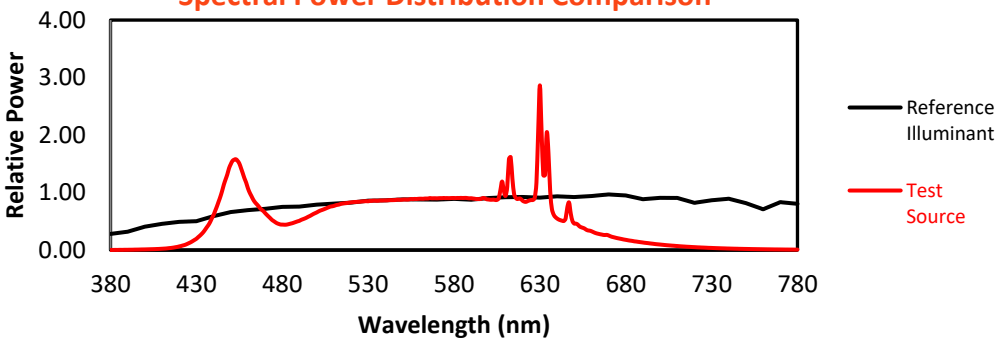
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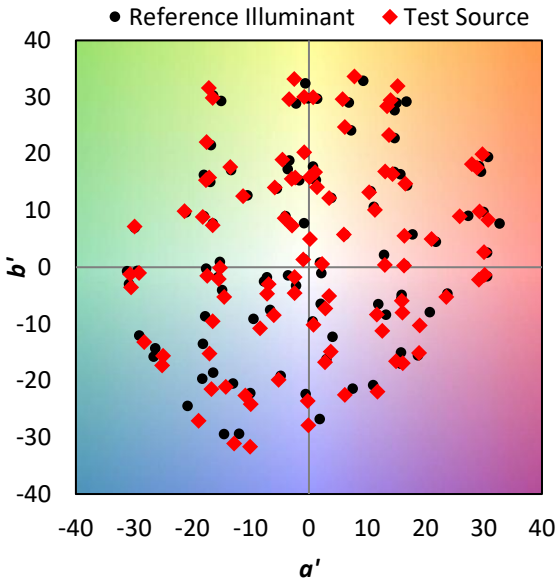
Summary

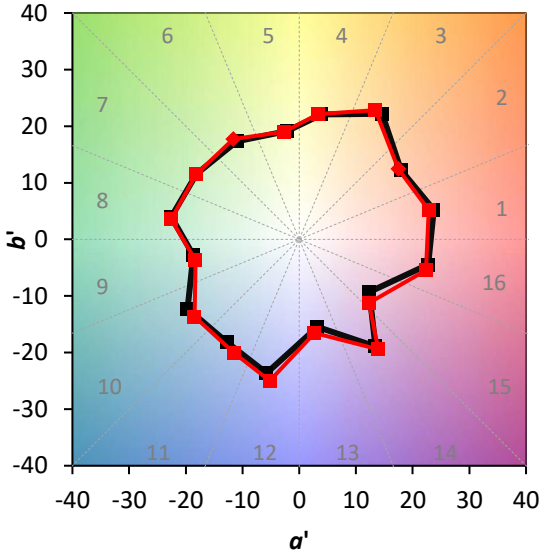
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R_g = 102
CIE R_a = 96.1
R_9 = 83.9

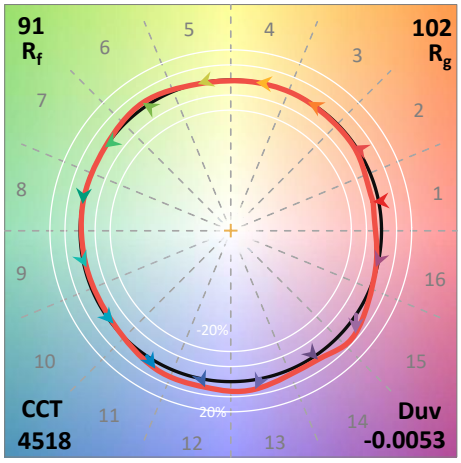
Spectral Power Distribution Comparison

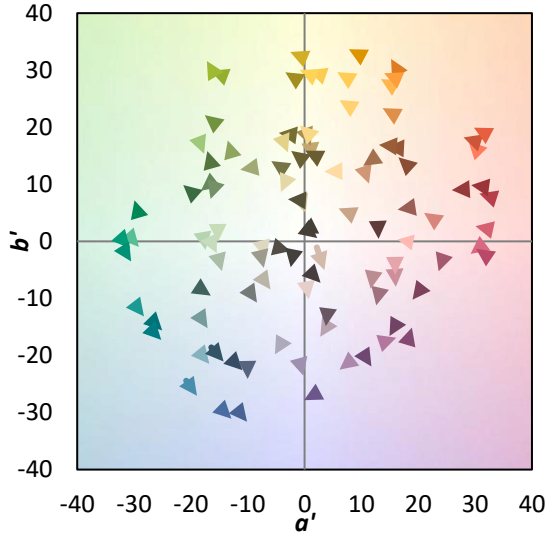


Color Vector Graphics







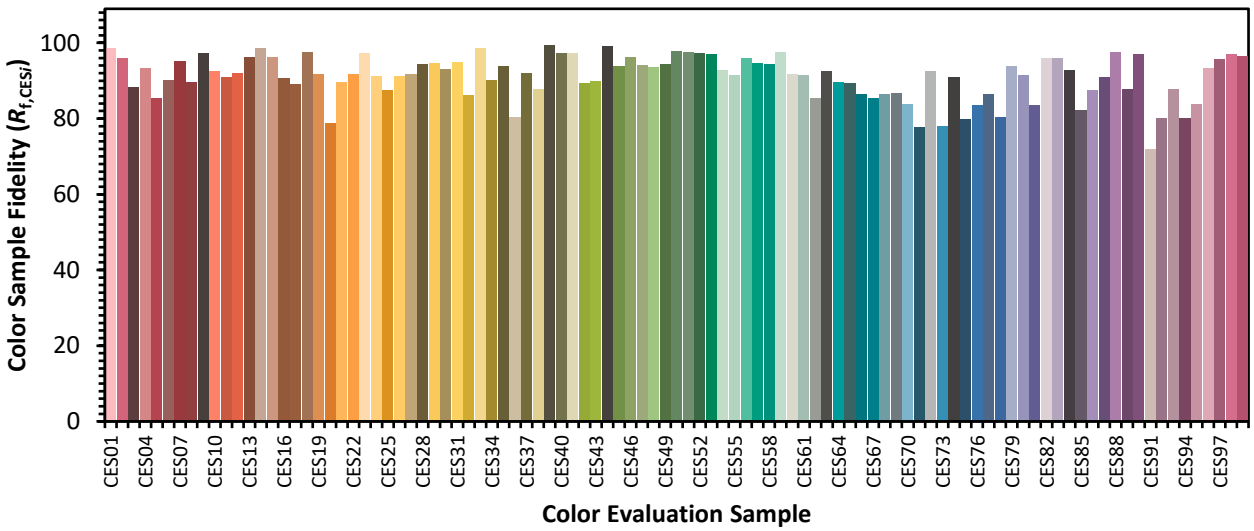


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Individual Sample Fidelity Index ($R_{f,i}$)

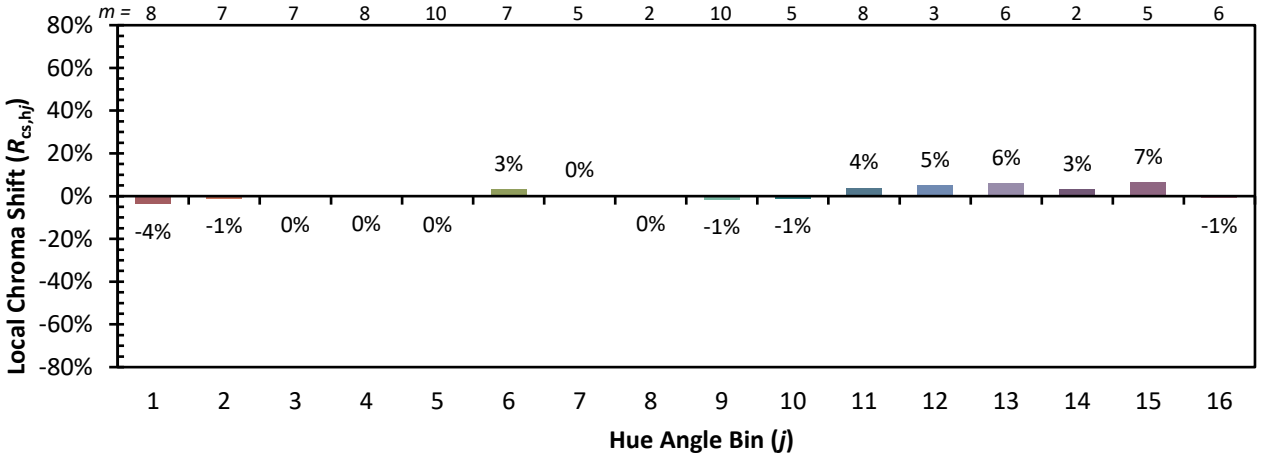
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CES02 = 61	CES27 = 92	CES52 = 97	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 97	CES78 = 80
CES04 = 69	CES29 = 95	CES54 = 93	CES79 = 94
CES05 = 49	CES30 = 93	CES55 = 91	CES80 = 91
CES06 = 50	CES31 = 95	CES56 = 96	CES81 = 83
CES07 = 42	CES32 = 86	CES57 = 95	CES82 = 96
CES08 = 41	CES33 = 99	CES58 = 94	CES83 = 96
CES09 = 29	CES34 = 90	CES59 = 97	CES84 = 93
CES10 = 74	CES35 = 94	CES60 = 92	CES85 = 82
CES11 = 56	CES36 = 80	CES61 = 92	CES86 = 88
CES12 = 63	CES37 = 92	CES62 = 85	CES87 = 91
CES13 = 43	CES38 = 88	CES63 = 92	CES88 = 97
CES14 = 74	CES39 = 99	CES64 = 90	CES89 = 88
CES15 = 71	CES40 = 97	CES65 = 89	CES90 = 97
CES16 = 47	CES41 = 97	CES66 = 87	CES91 = 72
CES17 = 49	CES42 = 89	CES67 = 85	CES92 = 80
CES18 = 56	CES43 = 90	CES68 = 86	CES93 = 88
CES19 = 71	CES44 = 99	CES69 = 87	CES94 = 80
CES20 = 66	CES45 = 94	CES70 = 84	CES95 = 84
CES21 = 85	CES46 = 96	CES71 = 78	CES96 = 93
CES22 = 77	CES47 = 94	CES72 = 93	CES97 = 96
CES23 = 91	CES48 = 94	CES73 = 78	CES98 = 97
CES24 = 90	CES49 = 94	CES74 = 91	CES99 = 96
CES25 = 71	CES50 = 98	CES75 = 80	

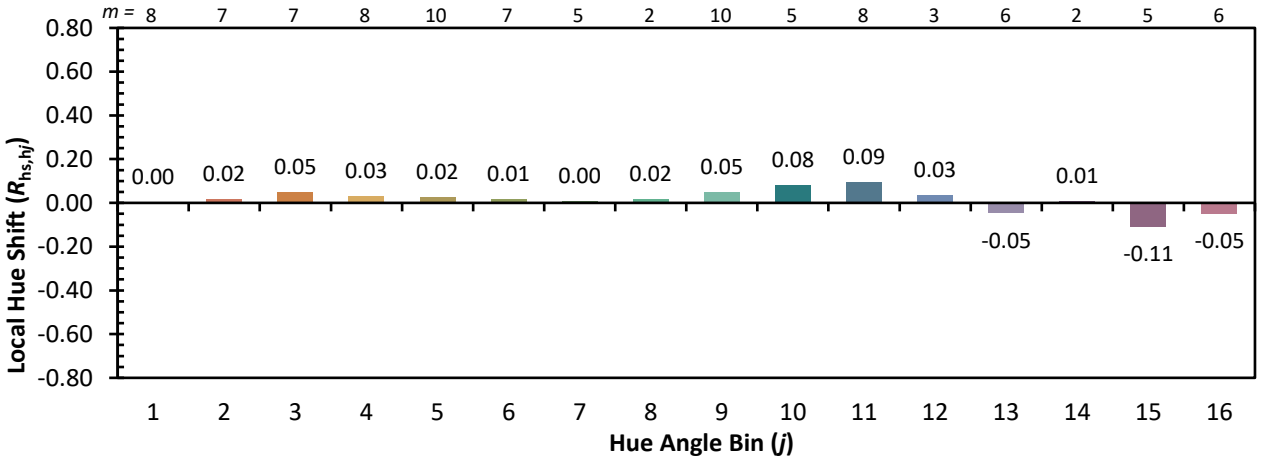


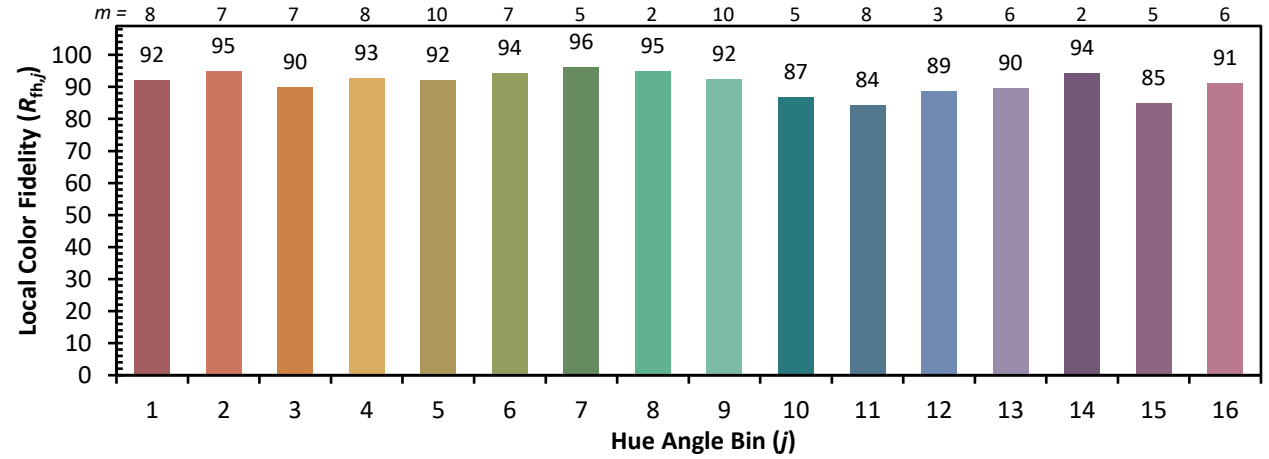
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Color Rendition by Hue-Angle Bin



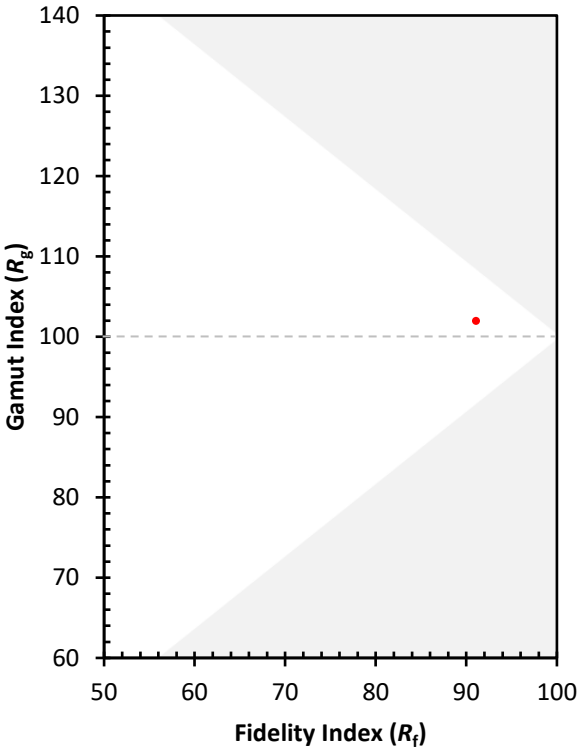


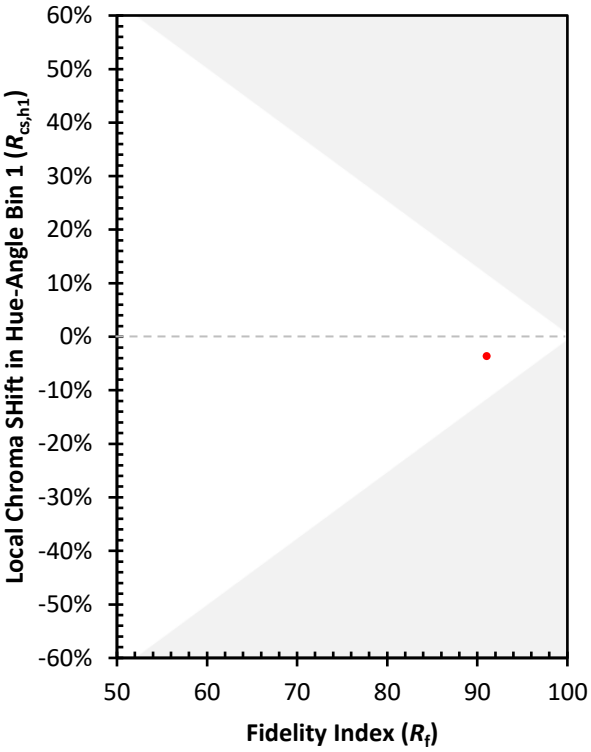


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Measure Comparisons





(END OF REPORT)