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: P1527719

Luminaire Tested: 22CGTX-20-B2750-W2A-4500K

Issue Date: 8/26/2026

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:	P1527719
	TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G3-2510-581-4)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	8/26/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	22CGTX-20-B2750-W2A-4500K
Description:	2X2 2000 LUMEN CGTX TROFFER WITH BIO UP LEDS AT 4500K CCT WITH FROSTED SMOOTH L
Light Source:	4500K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2113.5 lumens
Efficiency:	N/A
Efficacy:	113.6 lumens/watt
Spacing Criteria (0/90/45):	1.26 / 1.27 / 1.38
Luminous Opening:	Rectangular (W 2' x L: 2' x H: 0')
CIE Type:	Direct

Input Watts (W):	18.6
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

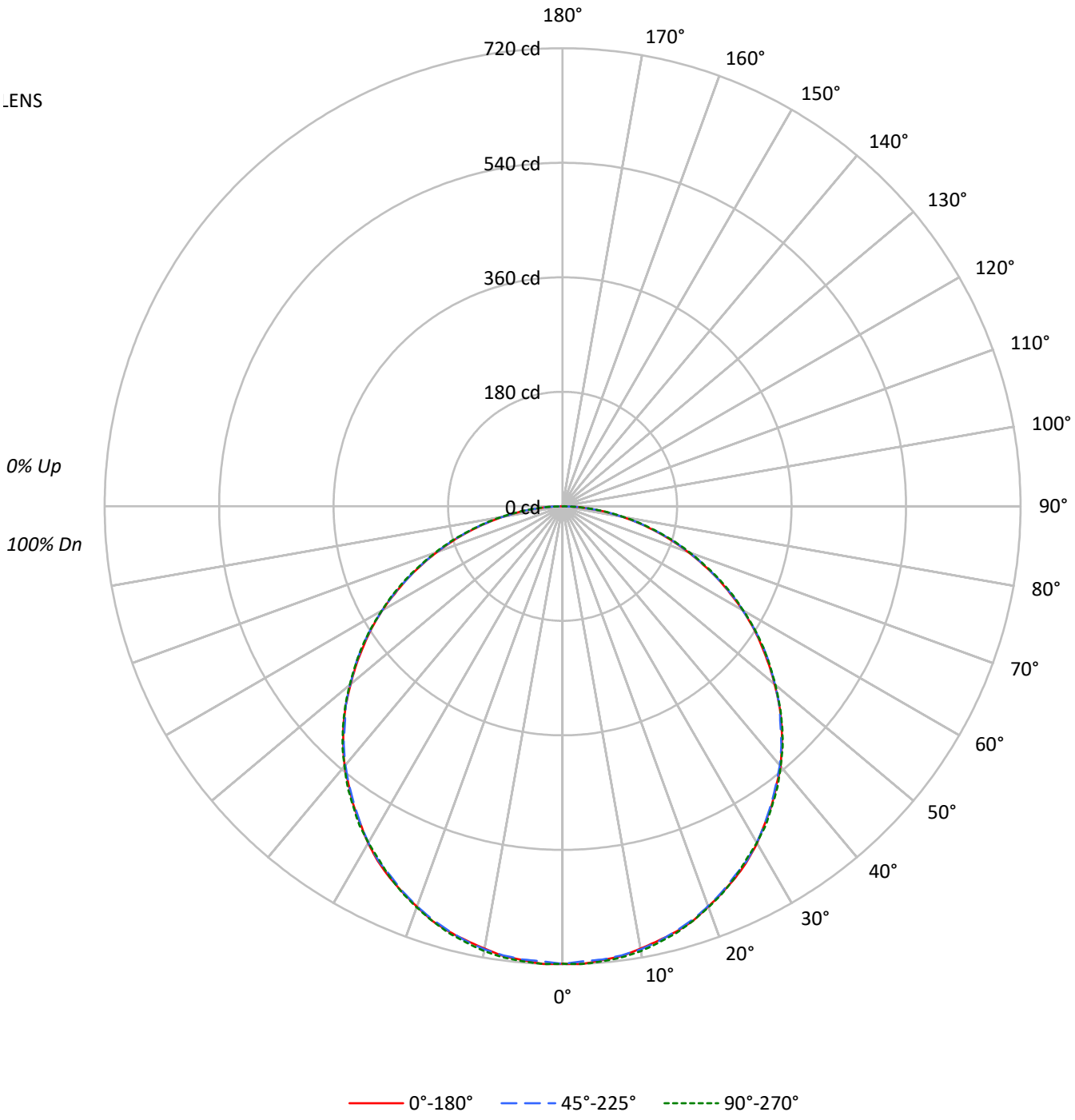


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TEST NUMBER: P1527719
CATALOG NUMBER: 22CGTX-20-B2750-W2A-4500K

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°	1935	1935	1935
5°	1934	1931	1940
10°	1929	1932	1940
15°	1928	1925	1933
20°	1918	1915	1921
25°	1911	1902	1908
30°	1900	1897	1897
35°	1884	1877	1887
40°	1873	1866	1873
45°	1854	1842	1858
50°	1820	1824	1829
55°	1790	1804	1804
60°	1762	1762	1767
65°	1713	1713	1733
70°	1651	1659	1675
75°	1576	1598	1608
80°	1478	1494	1525
85°	1334	1334	1396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
Vertical Angle: 45°
Luminance: 1858 cd/sqm

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TEST NUMBER: P1527719
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	3.2
10°-20°	195.3	9.2
20°-30°	296.2	14.0
30°-40°	358.6	17.0
40°-50°	374.7	17.7
50°-60°	342.7	16.2
60°-70°	266.8	12.6
70°-80°	162.1	7.7
80°-90°	49.0	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°	559.6	26.5
0°-40°	918.2	43.4
0°-60°	1635.6	77.4
0°-90°	2113.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2113.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	719	719	719	719	719	
5°	716	715	715	716	718	68
15°	692	693	691	692	694	195
25°	644	643	641	644	643	297
35°	573	573	571	574	574	359
45°	487	486	484	485	488	375
55°	382	383	385	384	385	342
65°	269	268	269	270	272	266
75°	152	152	154	155	155	161
85°	43	42	43	44	45	48
90°	0	0	0	0	0	

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CATALOG NUMBER: 22CGTX-20-B2750-W2A-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*719.0*	719.0	719.0	719.0	719.0
2.5°	*720.1*	*718.0*	*716.0*	*718.0*	*720.1*
5°	*716.0*	715.0	715.0	716.0	718.0
7.5°	*713.0*	711.0	712.0	712.0	715.0
10°	*706.0*	707.0	707.0	708.0	710.0
12.5°	*699.0*	701.0	700.0	701.0	702.0
15°	*691.9*	692.9	690.9	691.9	693.9
17.5°	*682.9*	682.9	680.9	680.9	682.9
20°	*669.8*	669.8	668.8	669.8	670.8
22.5°	*656.8*	656.8	655.8	657.8	657.8
25°	*643.7*	642.7	640.7	643.7	642.7
27.5°	*628.7*	626.7	627.7	627.7	625.7
30°	*611.6*	609.6	610.6	610.6	610.6
32.5°	*591.5*	592.5	591.5	592.5	594.5
35°	*573.4*	573.4	571.4	574.4	574.4
37.5°	*552.3*	552.3	551.3	554.3	555.4
40°	*533.3*	530.2	531.3	532.3	533.3
42.5°	*510.2*	508.2	509.2	509.2	512.2
45°	*487.1*	486.1	484.1	485.1	488.1
47.5°	*462.0*	461.0	462.0	461.0	463.0
50°	*434.8*	435.8	435.8	436.9	436.9
52.5°	*408.7*	409.7	410.7	411.7	410.7
55°	*381.6*	382.6	384.6	383.6	384.6
57.5°	*355.5*	354.5	356.5	356.5	357.5
60°	*327.4*	327.4	327.4	328.4	328.4
62.5°	*297.3*	297.3	299.3	299.3	301.3
65°	*269.1*	268.1	269.1	270.1	272.2
67.5°	*239.0*	239.0	241.0	241.0	242.0
70°	*209.9*	209.9	210.9	212.9	212.9
72.5°	*180.8*	180.8	182.8	183.8	184.8
75°	*151.6*	151.6	153.7	154.7	154.7
77.5°	*123.5*	122.5	124.5	126.5	127.5
80°	*95.4*	95.4	96.4	97.4	98.4
82.5°	*68.3*	68.3	69.3	71.3	71.3
85°	*43.2*	42.2	43.2	44.2	45.2
87.5°	*18.1*	18.1	18.1	20.1	20.1
90°	*0.0*	0.0	0.0	0.0	0.0

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TEST NUMBER: P1527719
CATALOG NUMBER: 22CGTX-20-B2750-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	14.19	15.86	14.56	16.17	16.48	14.23	15.89	14.60	16.21	16.52
	3H	16.09	17.60	16.47	17.93	18.29	16.15	17.66	16.53	17.98	18.34
	4H	16.84	18.26	17.24	18.60	18.98	16.91	18.33	17.31	18.68	19.05
	6H	17.41	18.73	17.82	19.10	19.49	17.51	18.83	17.92	19.19	19.59
	8H	17.61	18.87	18.04	19.26	19.66	17.72	18.98	18.14	19.37	19.77
	12H	17.75	18.96	18.18	19.34	19.77	17.87	19.08	18.30	19.46	19.89
4H	2H	14.86	16.28	15.26	16.63	17.00	14.89	16.31	15.29	16.66	17.03
	3H	16.99	18.19	17.40	18.58	18.98	17.04	18.24	17.45	18.63	19.03
	4H	17.87	18.95	18.30	19.36	19.80	17.94	19.03	18.37	19.44	19.87
	6H	18.58	19.53	19.03	19.97	20.42	18.68	19.63	19.13	20.07	20.52
	8H	18.83	19.72	19.29	20.16	20.63	18.95	19.84	19.40	20.28	20.74
	12H	19.02	19.82	19.50	20.30	20.77	19.15	19.95	19.63	20.42	20.89
8H	4H	18.23	19.12	18.69	19.56	20.02	18.29	19.18	18.75	19.62	20.09
	6H	19.08	19.82	19.57	20.31	20.78	19.17	19.91	19.66	20.40	20.87
	8H	19.41	20.08	19.92	20.58	21.07	19.52	20.19	20.03	20.69	21.18
	12H	19.68	20.27	20.19	20.76	21.32	19.81	20.40	20.31	20.89	21.45
12H	4H	18.28	19.08	18.76	19.55	20.02	18.34	19.14	18.82	19.61	20.08
	6H	19.15	19.82	19.66	20.33	20.81	19.24	19.91	19.75	20.41	20.90
	8H	19.55	20.14	20.06	20.63	21.19	19.66	20.25	20.16	20.74	21.30

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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: SP1-2505-441-7-R2

Test Date: 06/12/2025

Luminaire Tested: 24CGTX-55-B2750-W2A-4500K

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

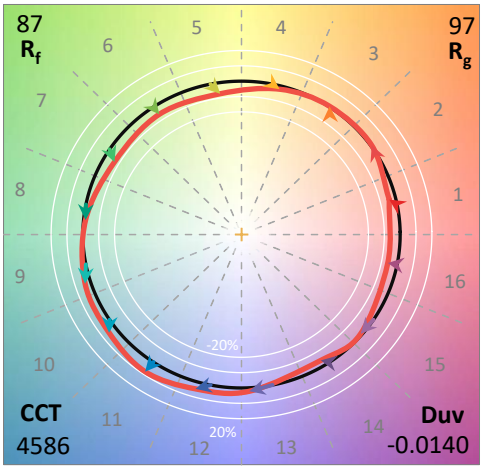
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2505-441-7-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-55-B2750-W2A-4500K**
Description:	*THIS IS A REVISION OF REPORT SP1-2504-441-7-R2 TO UPDATE THE CATALOG INFORMATION* 2X4 5500 LUMEN CGTX AT 3.0V

Spectral Parameters

CCT (K):	4586	CRI (Ra):	86.0		
CIE u':	0.2254	R1:	90.9	R9:	88.3
CIE v':	0.4753	R2:	86.0	R10:	73.4
Duv:	-0.0140	R3:	84.1	R11:	89.8
CIE x:	0.3529	R4:	88.1	R12:	69.1
CIE y:	0.3308	R5:	89.1	R13:	88.9
CIE z:	0.3163	R6:	80.3	R14:	92.7
Peak Wavelength (nm):	630	R7:	83.3	R15:	91.4
Dominant Wavelength (nm):	637	R8:	86.7		
Purity:	5.105834				
Rf:	86.9				
Rg:	96.7				



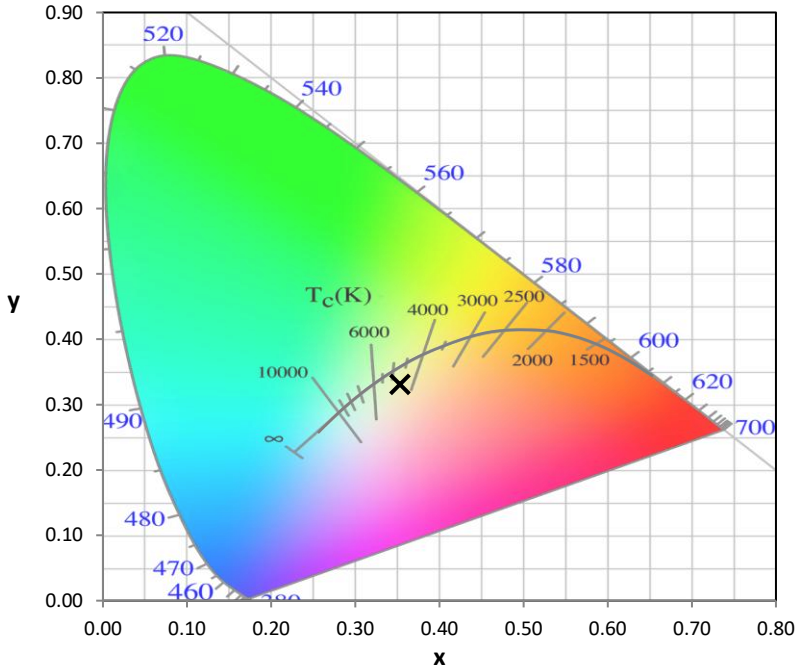
Test Conditions

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

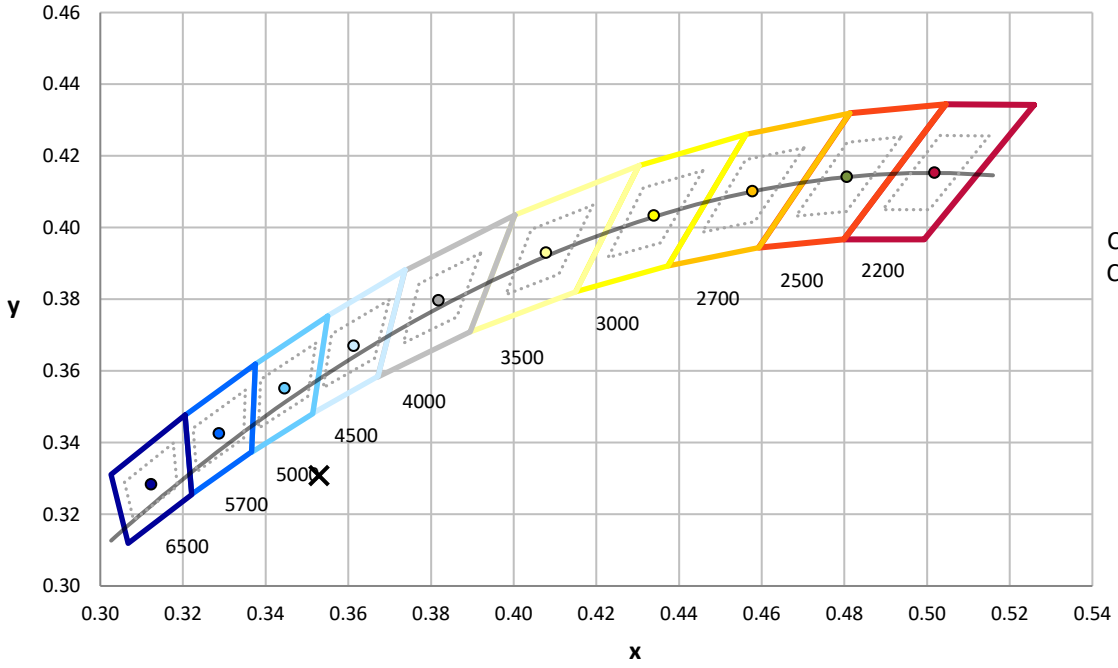
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2024	6/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2505-441-7-R2

CIE 1931 Chromaticity Diagram



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

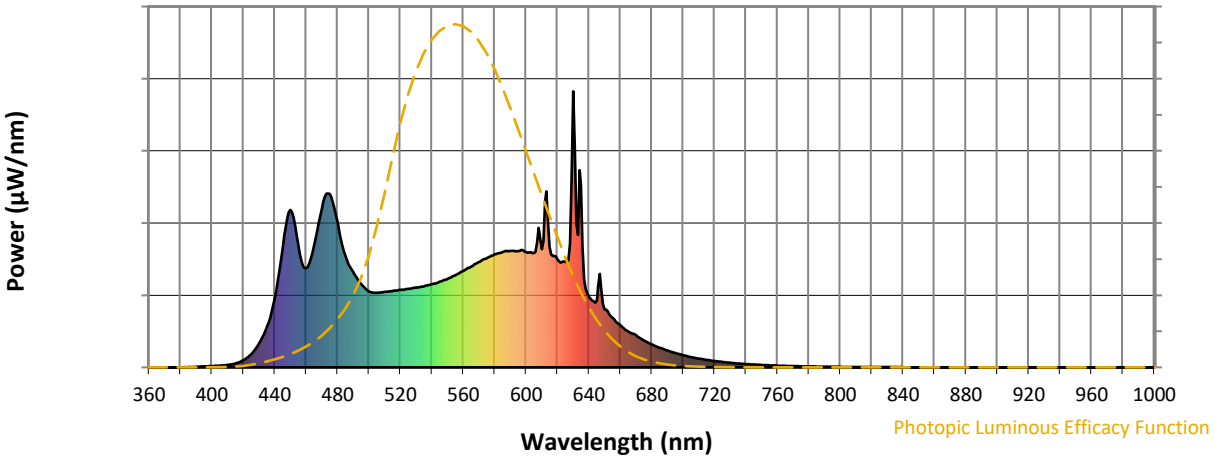


CCT = 4586K
CIE x = 0.3529
CIE y = 0.3308
Duv = -0.0140

Point lies outside the range

REPORT NUMBER: SP1-2505-441-7-R2

Photopic Flux vs. Wavelength

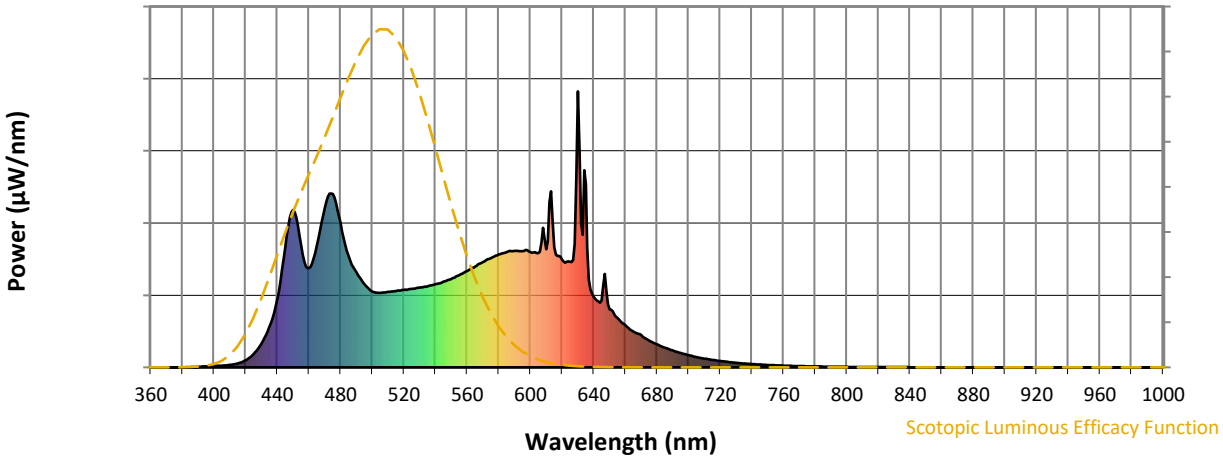


Photopic Lumens: NR

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	344	NR	620	391	NR	750	9	NR	880	0	NR
365	0	NR	495	302	NR	625	383	NR	755	7	NR	885	0	NR
370	0	NR	500	275	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	270	NR	635	663	NR	765	5	NR	895	0	NR
380	0	NR	510	274	NR	640	257	NR	770	5	NR	900	0	NR
385	1	NR	515	276	NR	645	242	NR	775	4	NR	905	0	NR
390	2	NR	520	281	NR	650	210	NR	780	3	NR	910	0	NR
395	3	NR	525	284	NR	655	179	NR	785	3	NR	915	0	NR
400	5	NR	530	289	NR	660	153	NR	790	2	NR	920	0	NR
405	6	NR	535	294	NR	665	130	NR	795	2	NR	925	0	NR
410	9	NR	540	302	NR	670	117	NR	800	2	NR	930	0	NR
415	14	NR	545	310	NR	675	97	NR	805	2	NR	935	0	NR
420	26	NR	550	321	NR	680	83	NR	810	1	NR	940	0	NR
425	48	NR	555	334	NR	685	71	NR	815	1	NR	945	0	NR
430	86	NR	560	349	NR	690	61	NR	820	1	NR	950	0	NR
435	148	NR	565	365	NR	695	52	NR	825	1	NR	955	0	NR
440	248	NR	570	382	NR	700	44	NR	830	1	NR	960	0	NR
445	431	NR	575	396	NR	705	38	NR	835	1	NR	965	0	NR
450	571	NR	580	409	NR	710	32	NR	840	1	NR	970	0	NR
455	443	NR	585	418	NR	715	27	NR	845	1	NR	975	0	NR
460	359	NR	590	422	NR	720	23	NR	850	1	NR	980	0	NR
465	441	NR	595	421	NR	725	20	NR	855	0	NR	985	0	NR
470	578	NR	600	418	NR	730	17	NR	860	0	NR	990	0	NR
475	628	NR	605	414	NR	735	14	NR	865	0	NR	995	0	NR
480	525	NR	610	428	NR	740	12	NR	870	0	NR	1000	0	NR
485	405	NR	615	435	NR	745	10	NR	875	0	NR			

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Scotopic Flux vs. Wavelength

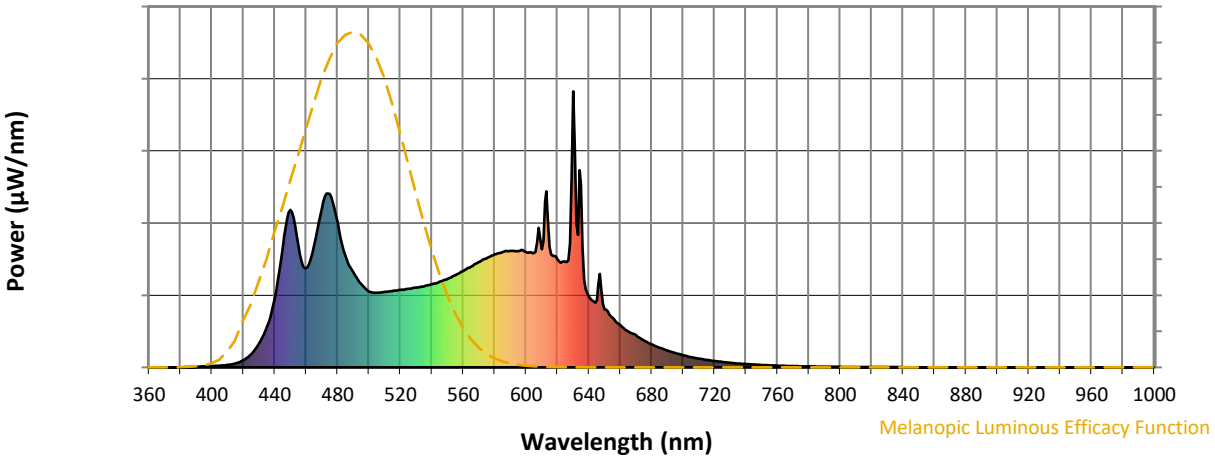


Scotopic Lumens: NR **S/P: 2.19**

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	344	NR	620	391	NR	750	9	NR	880	0	NR
365	0	NR	495	302	NR	625	383	NR	755	7	NR	885	0	NR
370	0	NR	500	275	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	270	NR	635	663	NR	765	5	NR	895	0	NR
380	0	NR	510	274	NR	640	257	NR	770	5	NR	900	0	NR
385	1	NR	515	276	NR	645	242	NR	775	4	NR	905	0	NR
390	2	NR	520	281	NR	650	210	NR	780	3	NR	910	0	NR
395	3	NR	525	284	NR	655	179	NR	785	3	NR	915	0	NR
400	5	NR	530	289	NR	660	153	NR	790	2	NR	920	0	NR
405	6	NR	535	294	NR	665	130	NR	795	2	NR	925	0	NR
410	9	NR	540	302	NR	670	117	NR	800	2	NR	930	0	NR
415	14	NR	545	310	NR	675	97	NR	805	2	NR	935	0	NR
420	26	NR	550	321	NR	680	83	NR	810	1	NR	940	0	NR
425	48	NR	555	334	NR	685	71	NR	815	1	NR	945	0	NR
430	86	NR	560	349	NR	690	61	NR	820	1	NR	950	0	NR
435	148	NR	565	365	NR	695	52	NR	825	1	NR	955	0	NR
440	248	NR	570	382	NR	700	44	NR	830	1	NR	960	0	NR
445	431	NR	575	396	NR	705	38	NR	835	1	NR	965	0	NR
450	571	NR	580	409	NR	710	32	NR	840	1	NR	970	0	NR
455	443	NR	585	418	NR	715	27	NR	845	1	NR	975	0	NR
460	359	NR	590	422	NR	720	23	NR	850	1	NR	980	0	NR
465	441	NR	595	421	NR	725	20	NR	855	0	NR	985	0	NR
470	578	NR	600	418	NR	730	17	NR	860	0	NR	990	0	NR
475	628	NR	605	414	NR	735	14	NR	865	0	NR	995	0	NR
480	525	NR	610	428	NR	740	12	NR	870	0	NR	1000	0	NR
485	405	NR	615	435	NR	745	10	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 5.06**

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	344	NR	620	391	NR	750	9	NR	880	0	NR
365	0	NR	495	302	NR	625	383	NR	755	7	NR	885	0	NR
370	0	NR	500	275	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	270	NR	635	663	NR	765	5	NR	895	0	NR
380	0	NR	510	274	NR	640	257	NR	770	5	NR	900	0	NR
385	1	NR	515	276	NR	645	242	NR	775	4	NR	905	0	NR
390	2	NR	520	281	NR	650	210	NR	780	3	NR	910	0	NR
395	3	NR	525	284	NR	655	179	NR	785	3	NR	915	0	NR
400	5	NR	530	289	NR	660	153	NR	790	2	NR	920	0	NR
405	6	NR	535	294	NR	665	130	NR	795	2	NR	925	0	NR
410	9	NR	540	302	NR	670	117	NR	800	2	NR	930	0	NR
415	14	NR	545	310	NR	675	97	NR	805	2	NR	935	0	NR
420	26	NR	550	321	NR	680	83	NR	810	1	NR	940	0	NR
425	48	NR	555	334	NR	685	71	NR	815	1	NR	945	0	NR
430	86	NR	560	349	NR	690	61	NR	820	1	NR	950	0	NR
435	148	NR	565	365	NR	695	52	NR	825	1	NR	955	0	NR
440	248	NR	570	382	NR	700	44	NR	830	1	NR	960	0	NR
445	431	NR	575	396	NR	705	38	NR	835	1	NR	965	0	NR
450	571	NR	580	409	NR	710	32	NR	840	1	NR	970	0	NR
455	443	NR	585	418	NR	715	27	NR	845	1	NR	975	0	NR
460	359	NR	590	422	NR	720	23	NR	850	1	NR	980	0	NR
465	441	NR	595	421	NR	725	20	NR	855	0	NR	985	0	NR
470	578	NR	600	418	NR	730	17	NR	860	0	NR	990	0	NR
475	628	NR	605	414	NR	735	14	NR	865	0	NR	995	0	NR
480	525	NR	610	428	NR	740	12	NR	870	0	NR	1000	0	NR
485	405	NR	615	435	NR	745	10	NR	875	0	NR			

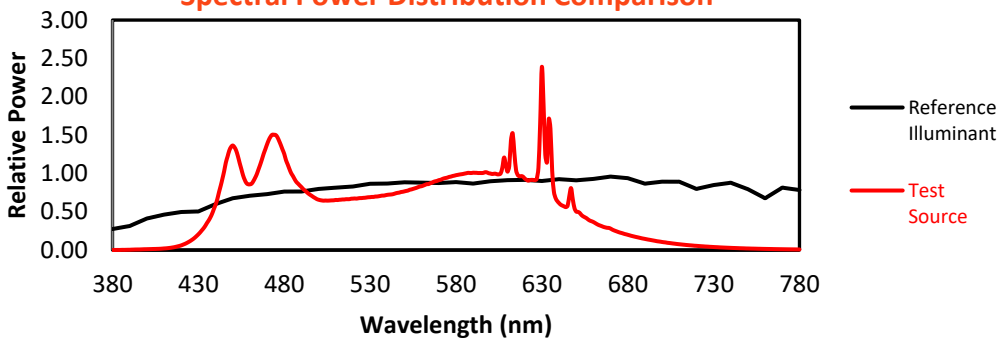
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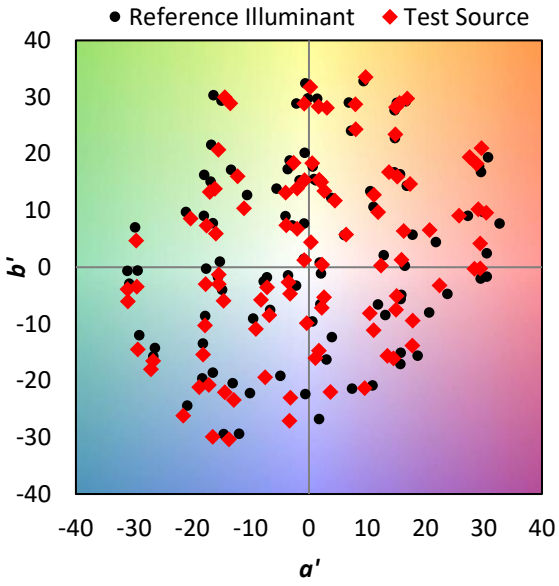
Summary

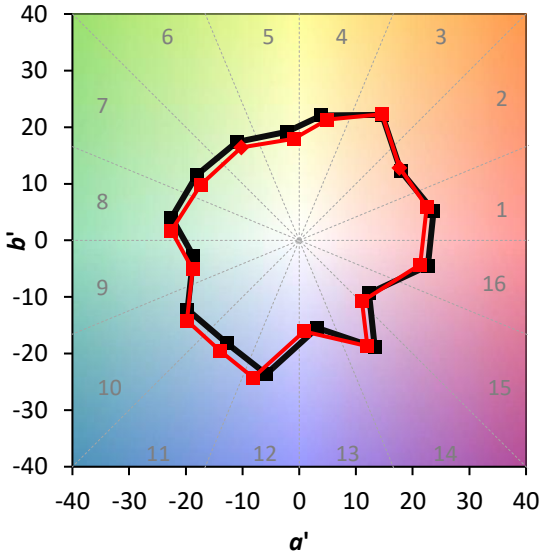
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R_g = 96.7
CIE R_a = 86.0
R_9 = 88.3

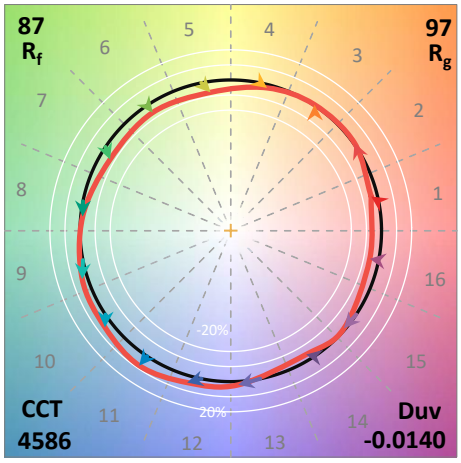
Spectral Power Distribution Comparison

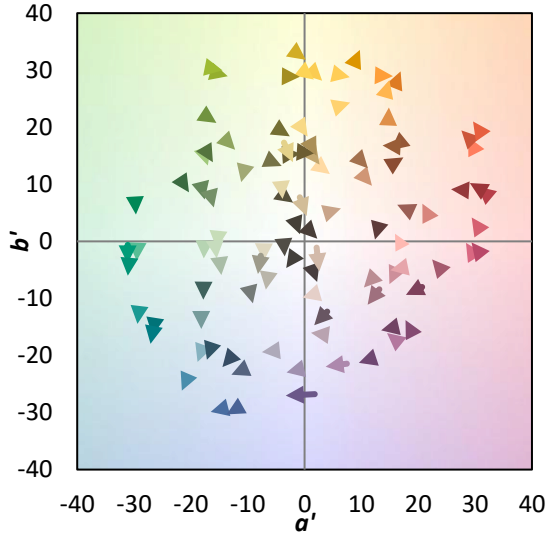


Color Vector Graphics







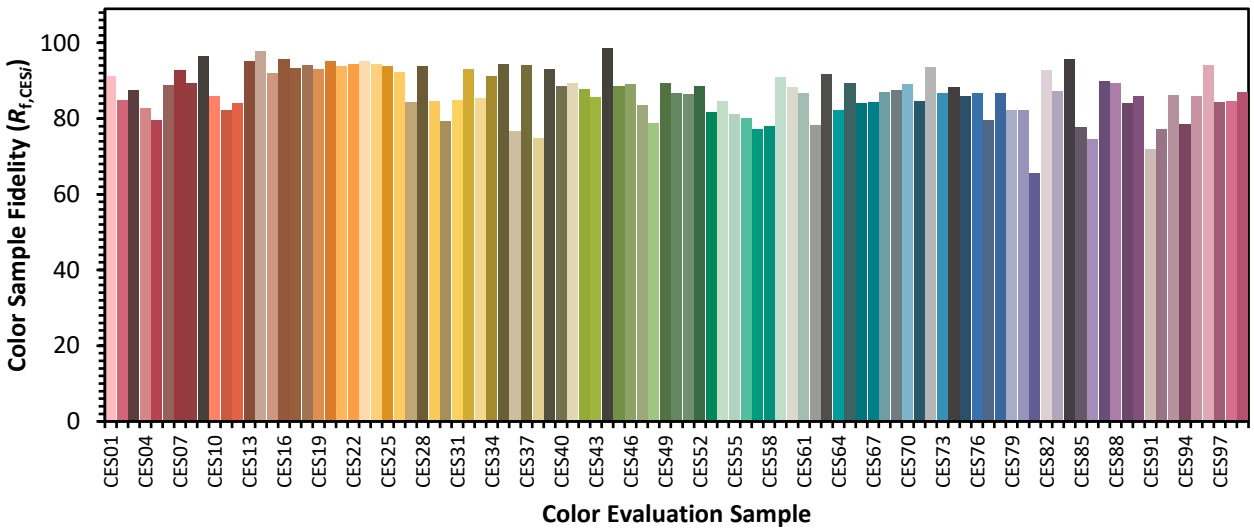


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Individual Sample Fidelity Index ($R_{f,i}$)

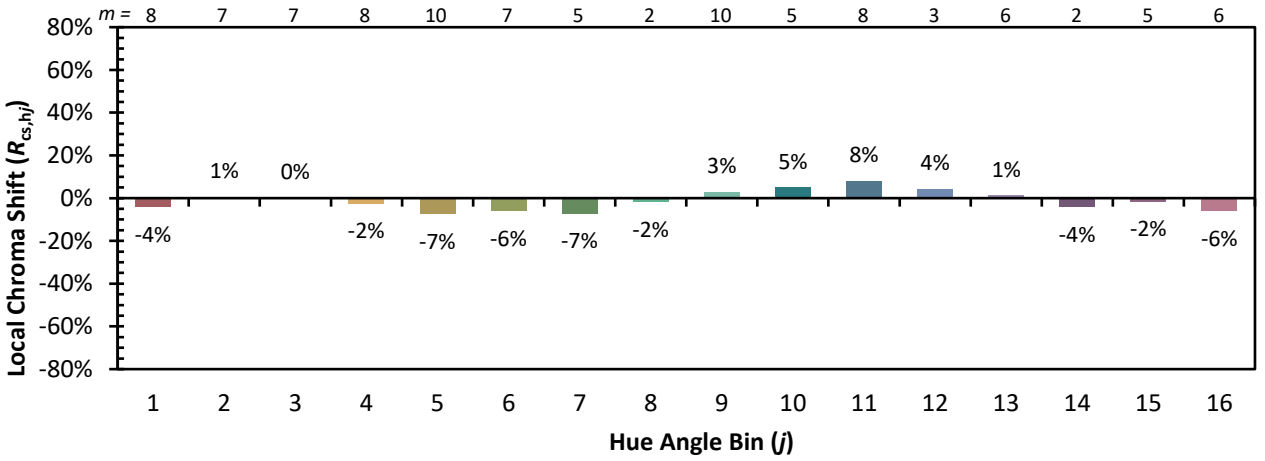
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CES02 = 62	CES27 = 84	CES52 = 89	CES77 = 80
CES03 = 31	CES28 = 94	CES53 = 82	CES78 = 87
CES04 = 69	CES29 = 85	CES54 = 85	CES79 = 82
CES05 = 49	CES30 = 79	CES55 = 81	CES80 = 82
CES06 = 50	CES31 = 85	CES56 = 80	CES81 = 65
CES07 = 42	CES32 = 93	CES57 = 77	CES82 = 93
CES08 = 41	CES33 = 85	CES58 = 78	CES83 = 87
CES09 = 29	CES34 = 91	CES59 = 91	CES84 = 96
CES10 = 75	CES35 = 94	CES60 = 88	CES85 = 78
CES11 = 57	CES36 = 77	CES61 = 87	CES86 = 75
CES12 = 63	CES37 = 94	CES62 = 78	CES87 = 90
CES13 = 43	CES38 = 75	CES63 = 92	CES88 = 89
CES14 = 74	CES39 = 93	CES64 = 82	CES89 = 84
CES15 = 71	CES40 = 89	CES65 = 89	CES90 = 86
CES16 = 47	CES41 = 89	CES66 = 84	CES91 = 72
CES17 = 49	CES42 = 88	CES67 = 84	CES92 = 77
CES18 = 56	CES43 = 86	CES68 = 87	CES93 = 86
CES19 = 71	CES44 = 99	CES69 = 87	CES94 = 79
CES20 = 66	CES45 = 88	CES70 = 89	CES95 = 86
CES21 = 85	CES46 = 89	CES71 = 85	CES96 = 94
CES22 = 78	CES47 = 84	CES72 = 94	CES97 = 84
CES23 = 91	CES48 = 79	CES73 = 87	CES98 = 85
CES24 = 90	CES49 = 89	CES74 = 88	CES99 = 87
CES25 = 70	CES50 = 87	CES75 = 86	

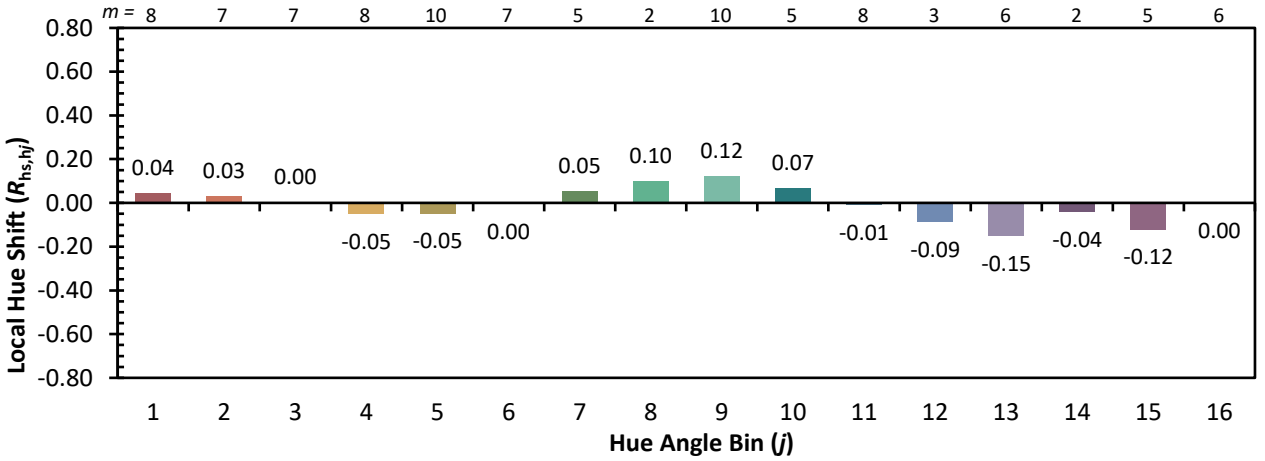


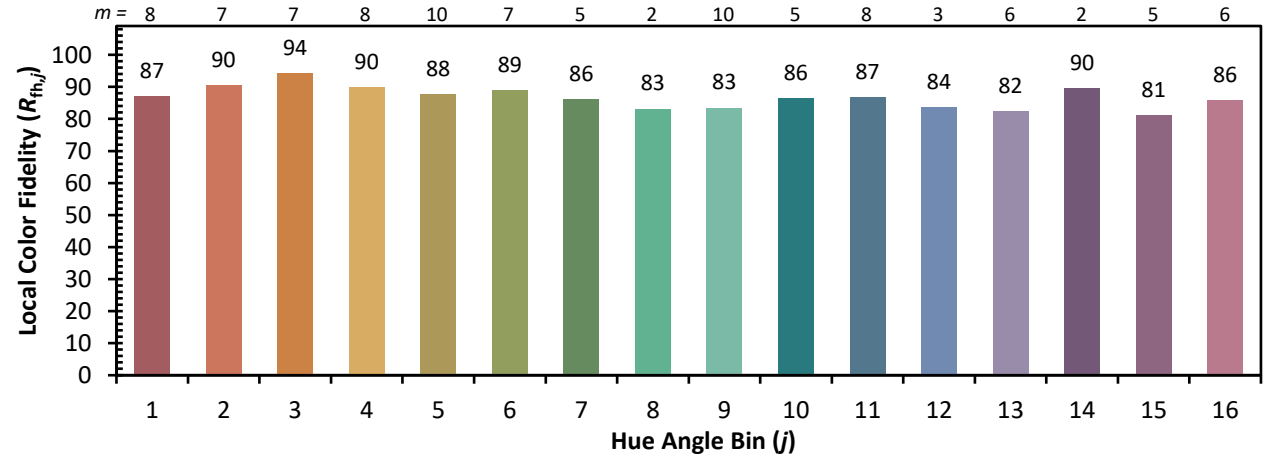
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Color Rendition by Hue-Angle Bin



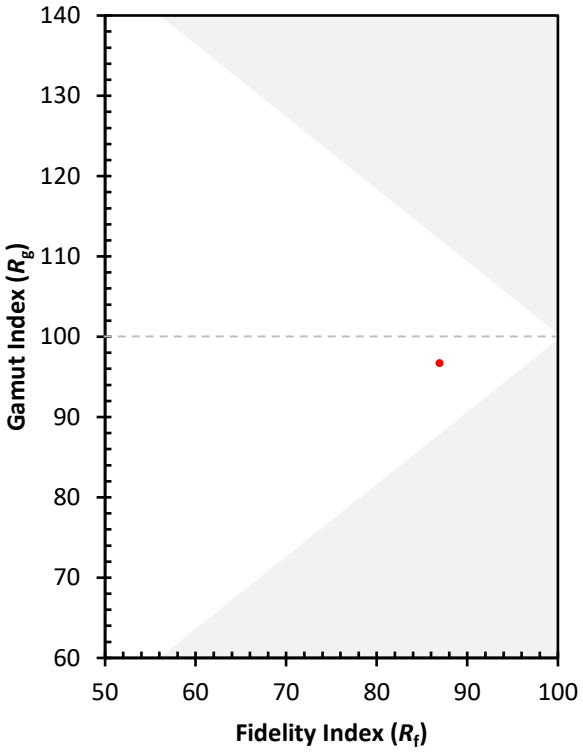


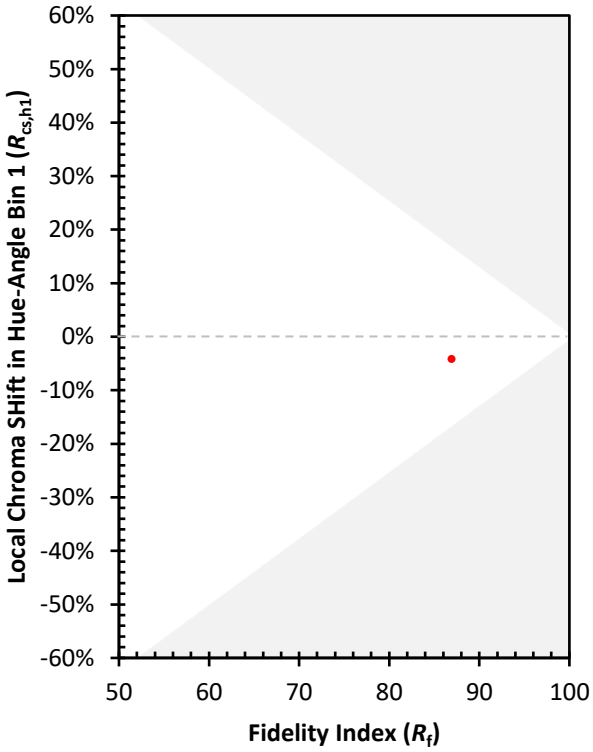


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Measure Comparisons





(END OF REPORT)