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: P1590924

Luminaire Tested: 22CGTX-45-L93050-W2A-4500K

Issue Date: 9/7/2026

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:	P1590924
	TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G3-2512-631-4)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	9/7/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	22CGTX-45-L93050-W2A-4500K
Description:	2X2 4500 LUMEN CGTX TROFFER WITH VividTune LEDS AT 4500K CCT
Light Source:	4500K CCT, 90 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5148.3 lumens
Efficiency:	N/A
Efficacy:	109.3 lumens/watt
Spacing Criteria (0/90/45):	1.27 / 1.27 / 1.39
Luminous Opening:	Rectangular (W 2' x L: 2' x H: 0')
CIE Type:	Direct
Input Watts (W):	47.1
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

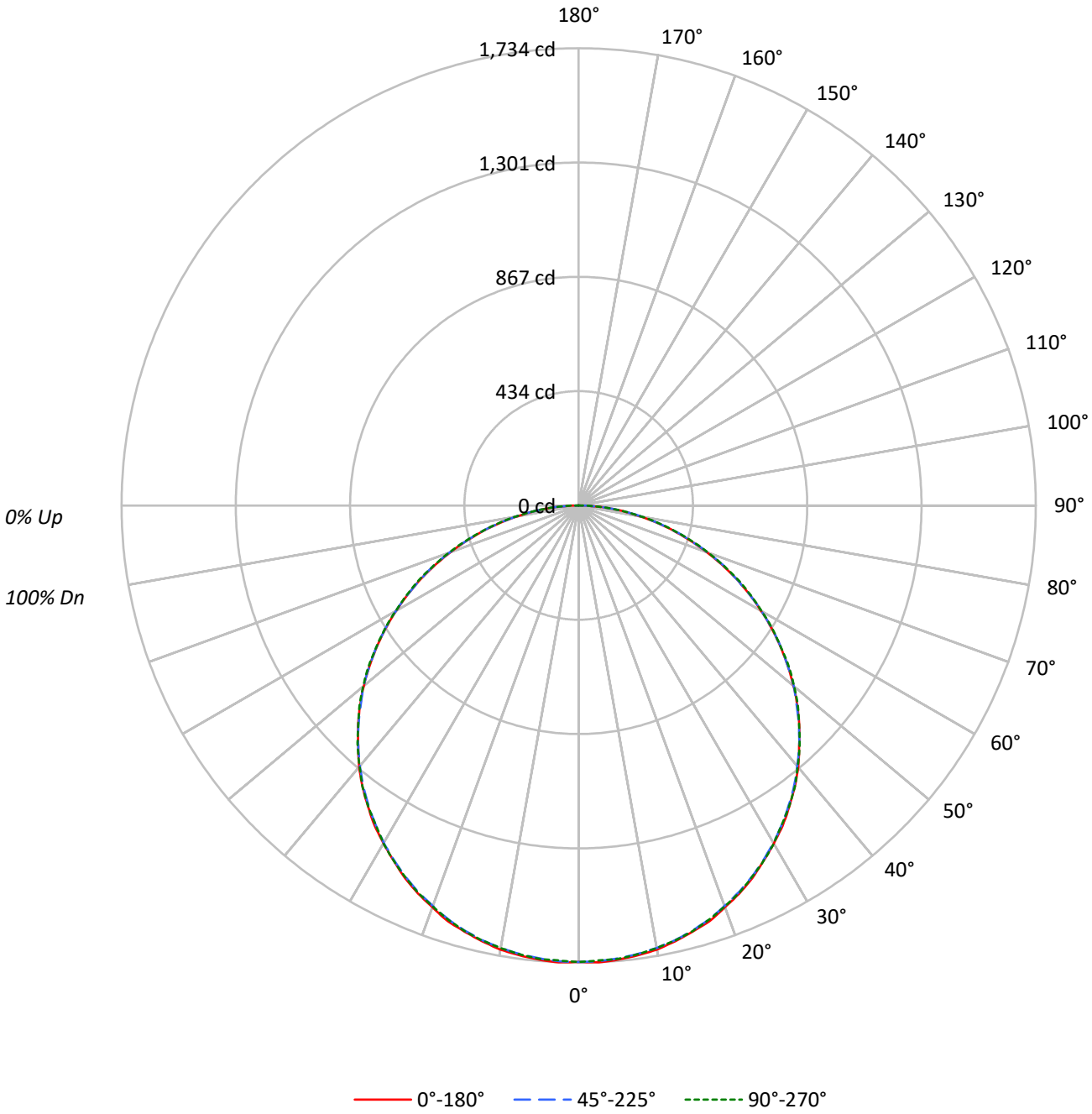


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Scaled Data Report

TEST NUMBER: P1590924
CATALOG NUMBER: 22CGTX-45-L93050-W2A-4500K

Luminous Intensity Polar Plot



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TEST NUMBER: P1590924
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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	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	68
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	55	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	39	51	44	39	50	43	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	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	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4659	4659	4659
5°	4671	4657	4663
10°	4674	4657	4657
15°	4661	4649	4655
20°	4644	4629	4635
25°	4630	4614	4617
30°	4599	4592	4599
35°	4577	4564	4574
40°	4551	4532	4539
45°	4505	4497	4501
50°	4454	4458	4467
55°	4384	4389	4394
60°	4300	4311	4316
65°	4204	4204	4250
70°	4062	4087	4127
75°	3904	3936	3947
80°	3653	3718	3750
85°	3350	3381	3446

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4505 cd/sqm

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Scaled Data Report

TEST NUMBER: P1590924
CATALOG NUMBER: 22CGTX-45-L93050-W2A-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.1	3.2
10°-20°	471.5	9.2
20°-30°	717.0	13.9
30°-40°	870.1	16.9
40°-50°	911.9	17.7
50°-60°	837.0	16.3
60°-70°	654.9	12.7
70°-80°	399.0	7.7
80°-90°	122.9	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°	1352.5	26.3
0°-40°	2222.6	43.2
0°-60°	3971.6	77.1
0°-90°	5148.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5148.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1731	1731	1731	1731	1731	
5°	1729	1728	1724	1725	1726	164
15°	1673	1671	1669	1667	1671	473
25°	1559	1557	1554	1555	1555	718
35°	1393	1391	1389	1390	1392	872
45°	1184	1181	1182	1184	1183	913
55°	934	939	936	939	937	835
65°	660	656	660	664	668	652
75°	376	376	379	379	380	395
85°	108	107	110	111	112	121
90°	0	0	0	0	0	

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TEST NUMBER: P1590924
CATALOG NUMBER: 22CGTX-45-L93050-W2A-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1731.3*	1731.3	1731.3	1731.3	1731.3
2.5°	*1734.5*	*1731.3*	*1730.3*	*1728.2*	*1727.2*
5°	*1729.3*	1728.2	1724.0	1725.1	1726.1
7.5°	*1720.9*	1717.8	1715.7	1715.7	1716.7
10°	*1710.5*	1707.4	1704.2	1705.3	1704.2
12.5°	*1692.8*	1692.8	1688.6	1688.6	1689.6
15°	*1672.9*	1670.9	1668.8	1666.7	1670.9
17.5°	*1653.1*	1647.9	1645.8	1647.9	1646.9
20°	*1621.8*	1620.8	1616.6	1617.7	1618.7
22.5°	*1592.6*	1590.5	1587.4	1588.5	1590.5
25°	*1559.3*	1557.2	1554.0	1555.1	1555.1
27.5°	*1519.6*	1519.6	1516.5	1517.5	1519.6
30°	*1480.0*	1478.9	1477.9	1478.9	1480.0
32.5°	*1440.4*	1436.2	1434.1	1434.1	1434.1
35°	*1393.4*	1391.3	1389.2	1390.3	1392.4
37.5°	*1346.5*	1342.3	1342.3	1341.3	1346.5
40°	*1295.4*	1292.2	1290.2	1290.2	1292.2
42.5°	*1238.0*	1237.0	1238.0	1238.0	1241.1
45°	*1183.8*	1180.7	1181.7	1183.8	1182.7
47.5°	*1125.4*	1124.3	1121.2	1124.3	1128.5
50°	*1063.8*	1062.8	1064.9	1063.8	1067.0
52.5°	*1000.2*	1001.3	1000.2	1002.3	1005.4
55°	*934.5*	938.7	935.6	938.7	936.6
57.5°	*867.8*	868.8	869.8	871.9	871.9
60°	*798.9*	803.1	801.0	802.0	802.0
62.5°	*730.1*	733.2	730.1	734.3	734.3
65°	*660.2*	656.0	660.2	664.4	667.5
67.5°	*588.2*	588.2	593.5	595.5	593.5
70°	*516.3*	517.3	519.4	522.5	524.6
72.5°	*443.3*	443.3	447.4	450.6	451.6
75°	*375.5*	375.5	378.6	378.6	379.6
77.5°	*304.5*	304.5	308.7	310.8	311.9
80°	*235.7*	239.9	239.9	240.9	242.0
82.5°	*171.0*	170.0	174.2	175.2	175.2
85°	*108.5*	107.4	109.5	110.6	111.6
87.5°	*48.0*	49.0	48.0	50.1	51.1
90°	*0.0*	0.0	0.0	0.0	0.0

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TEST NUMBER: P1590924
CATALOG NUMBER: 22CGTX-45-L93050-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	17.32	18.99	17.69	19.30	19.61	17.35	19.01	17.71	19.32	19.64
	3H	19.24	20.75	19.61	21.07	21.43	19.29	20.79	19.66	21.12	21.48
	4H	19.99	21.41	20.38	21.76	22.13	20.04	21.47	20.44	21.82	22.19
	6H	20.57	21.89	20.98	22.26	22.65	20.65	21.97	21.06	22.33	22.72
	8H	20.78	22.04	21.20	22.43	22.83	20.86	22.12	21.28	22.51	22.91
	12H	20.92	22.13	21.35	22.51	22.94	21.01	22.22	21.44	22.60	23.03
4H	2H	17.99	19.41	18.39	19.76	20.13	18.01	19.43	18.41	19.78	20.15
	3H	20.13	21.33	20.54	21.73	22.13	20.18	21.38	20.59	21.77	22.17
	4H	21.02	22.11	21.45	22.52	22.96	21.07	22.16	21.51	22.57	23.01
	6H	21.75	22.70	22.20	23.14	23.59	21.82	22.77	22.27	23.21	23.66
	8H	22.01	22.90	22.47	23.34	23.81	22.08	22.98	22.54	23.42	23.88
	12H	22.21	23.01	22.68	23.48	23.95	22.29	23.09	22.77	23.57	24.04
8H	4H	21.39	22.28	21.84	22.72	23.18	21.43	22.32	21.89	22.77	23.23
	6H	22.25	23.00	22.74	23.48	23.96	22.31	23.06	22.81	23.55	24.02
	8H	22.59	23.26	23.10	23.77	24.25	22.67	23.34	23.17	23.84	24.33
	12H	22.88	23.47	23.38	23.96	24.52	22.96	23.55	23.47	24.04	24.60
12H	4H	21.43	22.24	21.91	22.71	23.18	21.48	22.28	21.96	22.76	23.23
	6H	22.33	23.00	22.84	23.51	23.99	22.39	23.06	22.90	23.57	24.05
	8H	22.74	23.33	23.24	23.82	24.38	22.81	23.40	23.31	23.89	24.45

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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: SP1-2512-631-28-R2

Test Date: 02/05/2026

Luminaire Tested: 22CGTX-50-L93050-W2A-4500K

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

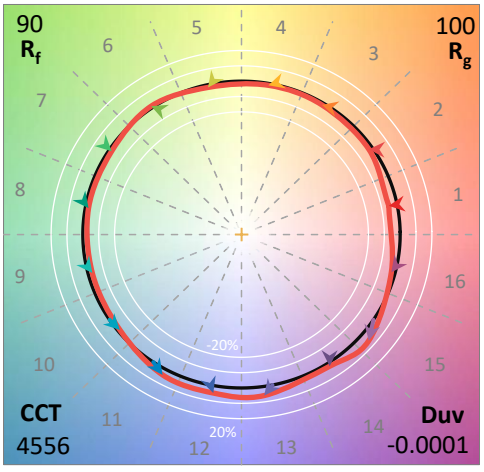
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2512-631-28-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-4500K**
Description:	*THIS IS A REVISION OF REPORT SP1-2512-631-28-R2 TO UPDATE THE CATALOG INFORMATION* 2X2 5000 LUMEN HE CGTX TUNABLE WHITE FROM 3000K TO 5000K - 3 Volt

Spectral Parameters

CCT (K):	4556
CIE u':	0.2166
CIE v':	0.4916
Duv:	-0.0001
CIE x:	0.3588
CIE y:	0.3619
CIE z:	0.2793
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	576
Purity:	16.26758
Rf:	90.4
Rg:	99.5

CRI (Ra):	93.8		
R1:	95.1	R9:	68.4
R2:	96.4	R10:	89.0
R3:	95.1	R11:	94.6
R4:	94.5	R12:	68.9
R5:	93.5	R13:	95.8
R6:	93.0	R14:	96.7
R7:	94.8	R15:	92.7
R8:	88.3		



Test Conditions

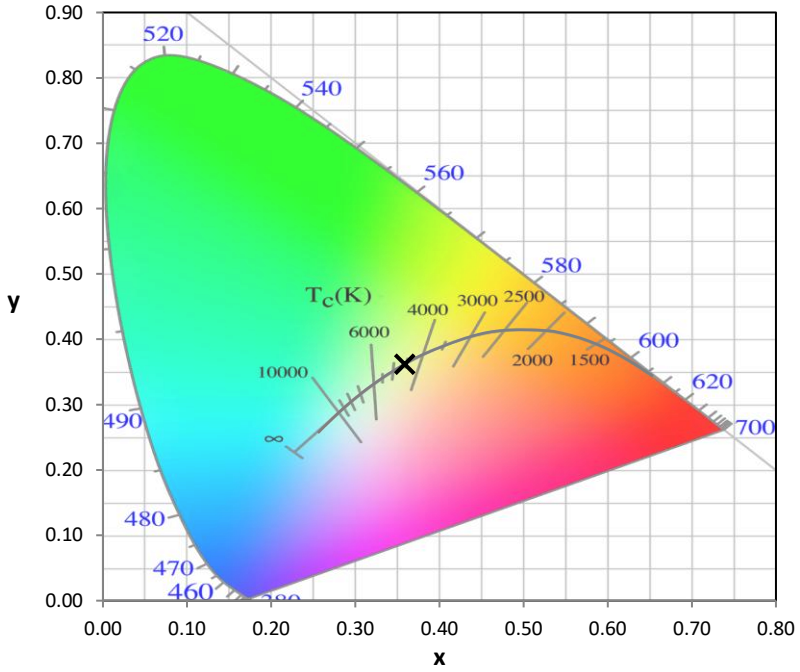
Stabilization Time:	41M
Operation Time:	1H 41M
Sphere Temperature (°C):	25.1

REPORT NUMBER: SP1-2512-631-28-R2

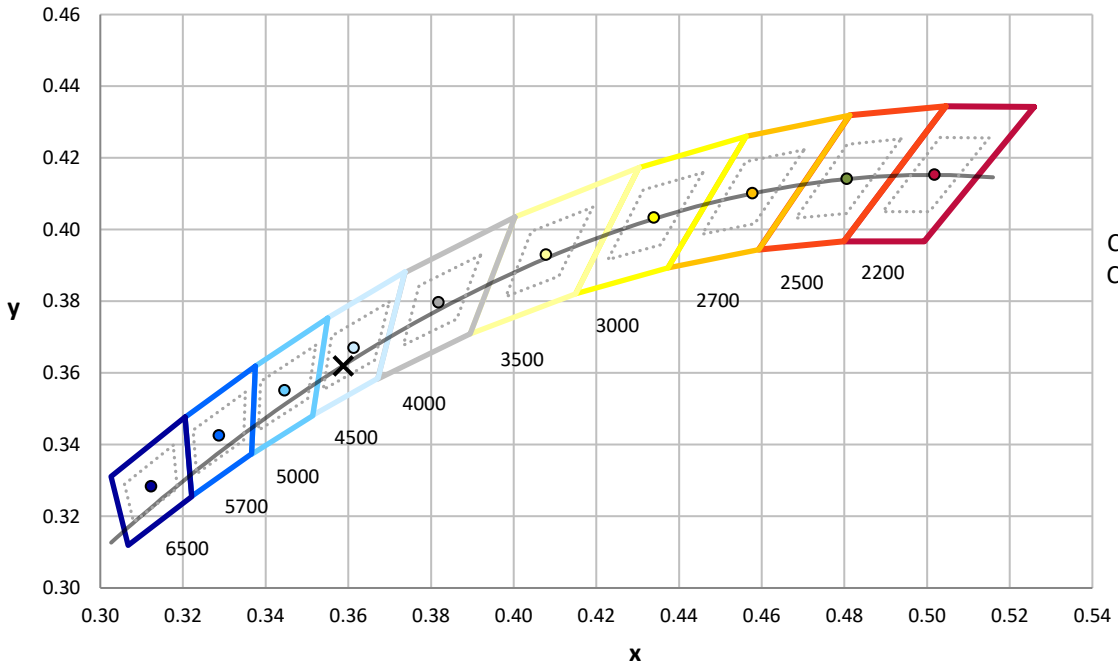
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	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: SP1-2512-631-28-R2

CIE 1931 Chromaticity Diagram



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

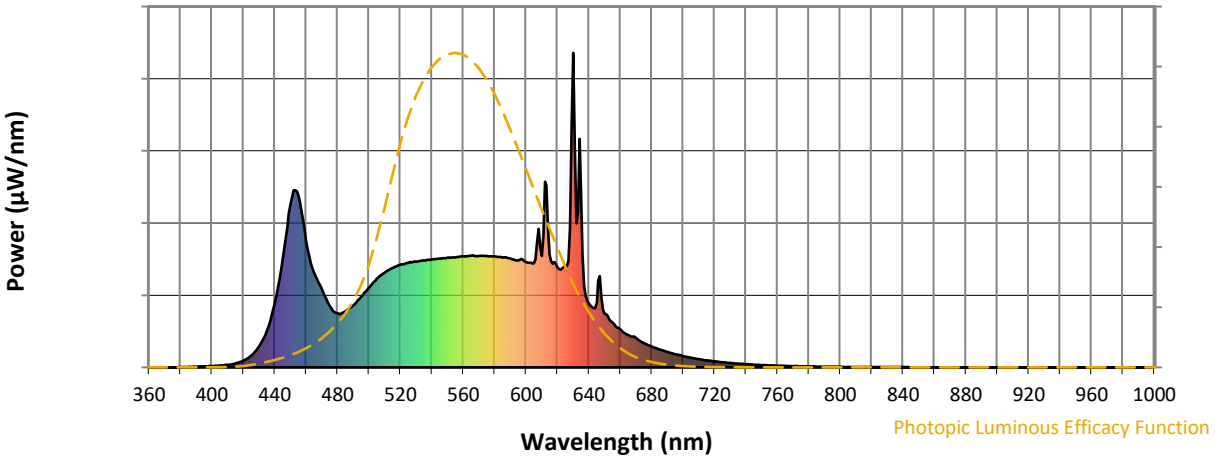


CCT = 4556K
CIE x = 0.3588
CIE y = 0.3619
Duv = -0.0001

Point lies inside the ANSI 4500K 4-step quadrangle

REPORT NUMBER: SP1-2512-631-28-R2

Photopic Flux vs. Wavelength

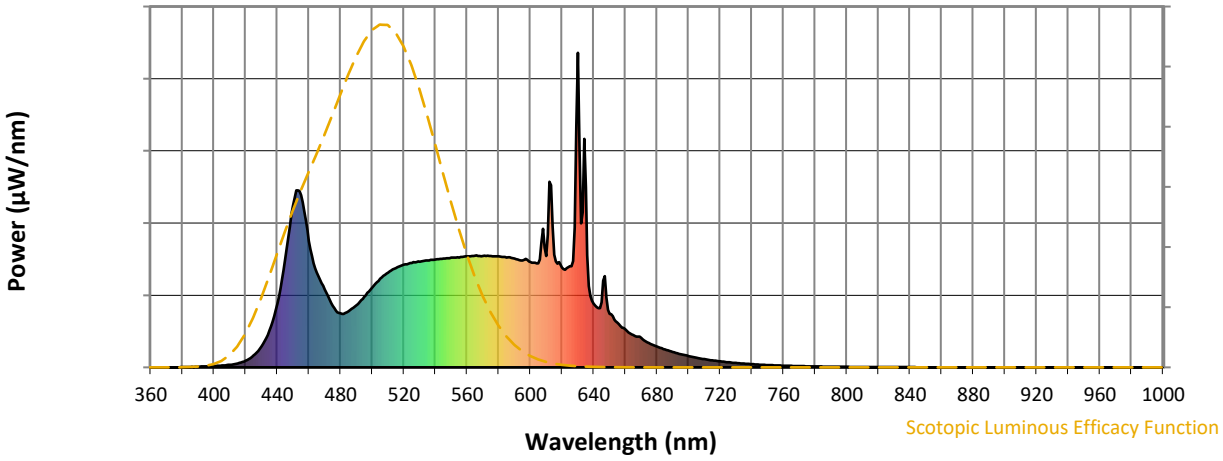


Photopic Lumens: NR

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	198	NR	620	318	NR	750	7	NR	880	0	NR
365	0	NR	495	223	NR	625	321	NR	755	6	NR	885	0	NR
370	0	NR	500	254	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	282	NR	635	572	NR	765	5	NR	895	0	NR
380	1	NR	510	301	NR	640	202	NR	770	4	NR	900	0	NR
385	1	NR	515	316	NR	645	207	NR	775	3	NR	905	0	NR
390	2	NR	520	327	NR	650	170	NR	780	3	NR	910	0	NR
395	3	NR	525	332	NR	655	143	NR	785	2	NR	915	0	NR
400	4	NR	530	336	NR	660	121	NR	790	2	NR	920	0	NR
405	6	NR	535	340	NR	665	102	NR	795	2	NR	925	0	NR
410	8	NR	540	343	NR	670	94	NR	800	2	NR	930	0	NR
415	12	NR	545	346	NR	675	77	NR	805	1	NR	935	0	NR
420	21	NR	550	349	NR	680	66	NR	810	1	NR	940	0	NR
425	37	NR	555	349	NR	685	57	NR	815	1	NR	945	0	NR
430	66	NR	560	353	NR	690	49	NR	820	1	NR	950	0	NR
435	117	NR	565	355	NR	695	42	NR	825	1	NR	955	0	NR
440	203	NR	570	354	NR	700	36	NR	830	1	NR	960	0	NR
445	343	NR	575	354	NR	705	31	NR	835	1	NR	965	0	NR
450	516	NR	580	353	NR	710	26	NR	840	1	NR	970	0	NR
455	547	NR	585	349	NR	715	22	NR	845	0	NR	975	0	NR
460	402	NR	590	346	NR	720	19	NR	850	0	NR	980	0	NR
465	301	NR	595	340	NR	725	16	NR	855	0	NR	985	0	NR
470	248	NR	600	335	NR	730	14	NR	860	0	NR	990	0	NR
475	195	NR	605	330	NR	735	12	NR	865	0	NR	995	0	NR
480	172	NR	610	354	NR	740	10	NR	870	0	NR	1000	0	NR
485	178	NR	615	358	NR	745	9	NR	875	0	NR			

REPORT NUMBER: SP1-2512-631-28-R2

Scotopic Flux vs. Wavelength

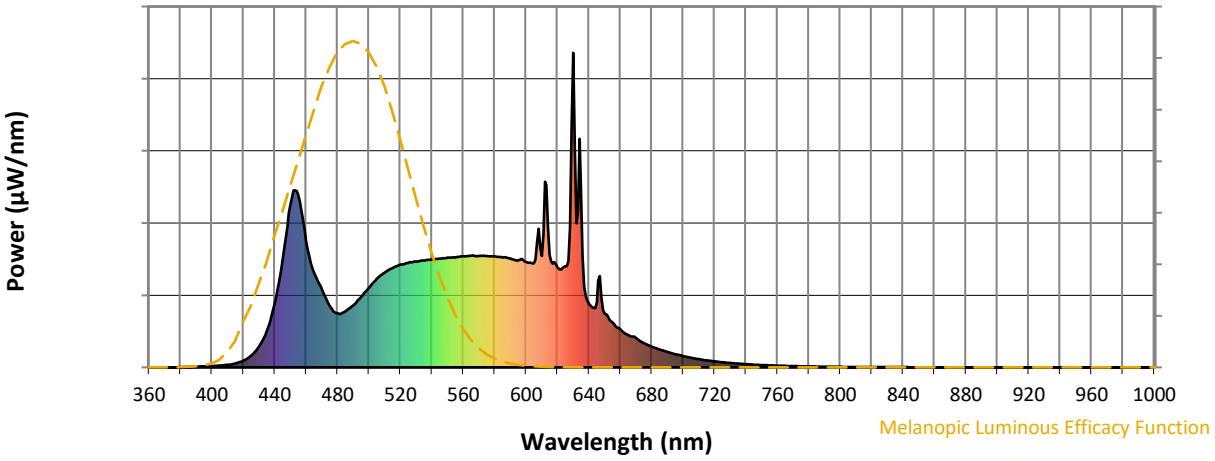


Scotopic Lumens: NR **S/P: 1.95**

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	198	NR	620	318	NR	750	7	NR	880	0	NR
365	0	NR	495	223	NR	625	321	NR	755	6	NR	885	0	NR
370	0	NR	500	254	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	282	NR	635	572	NR	765	5	NR	895	0	NR
380	1	NR	510	301	NR	640	202	NR	770	4	NR	900	0	NR
385	1	NR	515	316	NR	645	207	NR	775	3	NR	905	0	NR
390	2	NR	520	327	NR	650	170	NR	780	3	NR	910	0	NR
395	3	NR	525	332	NR	655	143	NR	785	2	NR	915	0	NR
400	4	NR	530	336	NR	660	121	NR	790	2	NR	920	0	NR
405	6	NR	535	340	NR	665	102	NR	795	2	NR	925	0	NR
410	8	NR	540	343	NR	670	94	NR	800	2	NR	930	0	NR
415	12	NR	545	346	NR	675	77	NR	805	1	NR	935	0	NR
420	21	NR	550	349	NR	680	66	NR	810	1	NR	940	0	NR
425	37	NR	555	349	NR	685	57	NR	815	1	NR	945	0	NR
430	66	NR	560	353	NR	690	49	NR	820	1	NR	950	0	NR
435	117	NR	565	355	NR	695	42	NR	825	1	NR	955	0	NR
440	203	NR	570	354	NR	700	36	NR	830	1	NR	960	0	NR
445	343	NR	575	354	NR	705	31	NR	835	1	NR	965	0	NR
450	516	NR	580	353	NR	710	26	NR	840	1	NR	970	0	NR
455	547	NR	585	349	NR	715	22	NR	845	0	NR	975	0	NR
460	402	NR	590	346	NR	720	19	NR	850	0	NR	980	0	NR
465	301	NR	595	340	NR	725	16	NR	855	0	NR	985	0	NR
470	248	NR	600	335	NR	730	14	NR	860	0	NR	990	0	NR
475	195	NR	605	330	NR	735	12	NR	865	0	NR	995	0	NR
480	172	NR	610	354	NR	740	10	NR	870	0	NR	1000	0	NR
485	178	NR	615	358	NR	745	9	NR	875	0	NR			

REPORT NUMBER: SP1-2512-631-28-R2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 4.17**

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	198	NR	620	318	NR	750	7	NR	880	0	NR
365	0	NR	495	223	NR	625	321	NR	755	6	NR	885	0	NR
370	0	NR	500	254	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	282	NR	635	572	NR	765	5	NR	895	0	NR
380	1	NR	510	301	NR	640	202	NR	770	4	NR	900	0	NR
385	1	NR	515	316	NR	645	207	NR	775	3	NR	905	0	NR
390	2	NR	520	327	NR	650	170	NR	780	3	NR	910	0	NR
395	3	NR	525	332	NR	655	143	NR	785	2	NR	915	0	NR
400	4	NR	530	336	NR	660	121	NR	790	2	NR	920	0	NR
405	6	NR	535	340	NR	665	102	NR	795	2	NR	925	0	NR
410	8	NR	540	343	NR	670	94	NR	800	2	NR	930	0	NR
415	12	NR	545	346	NR	675	77	NR	805	1	NR	935	0	NR
420	21	NR	550	349	NR	680	66	NR	810	1	NR	940	0	NR
425	37	NR	555	349	NR	685	57	NR	815	1	NR	945	0	NR
430	66	NR	560	353	NR	690	49	NR	820	1	NR	950	0	NR
435	117	NR	565	355	NR	695	42	NR	825	1	NR	955	0	NR
440	203	NR	570	354	NR	700	36	NR	830	1	NR	960	0	NR
445	343	NR	575	354	NR	705	31	NR	835	1	NR	965	0	NR
450	516	NR	580	353	NR	710	26	NR	840	1	NR	970	0	NR
455	547	NR	585	349	NR	715	22	NR	845	0	NR	975	0	NR
460	402	NR	590	346	NR	720	19	NR	850	0	NR	980	0	NR
465	301	NR	595	340	NR	725	16	NR	855	0	NR	985	0	NR
470	248	NR	600	335	NR	730	14	NR	860	0	NR	990	0	NR
475	195	NR	605	330	NR	735	12	NR	865	0	NR	995	0	NR
480	172	NR	610	354	NR	740	10	NR	870	0	NR	1000	0	NR
485	178	NR	615	358	NR	745	9	NR	875	0	NR			

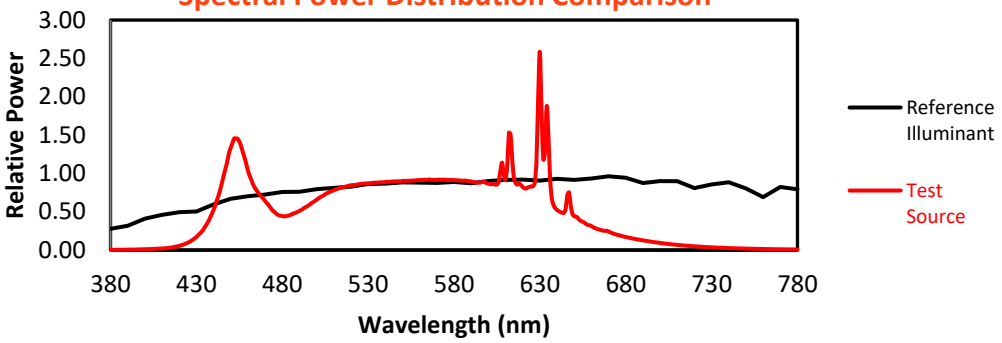
REPORT NUMBER: SP1-2512-631-28-R2

TM-30-18

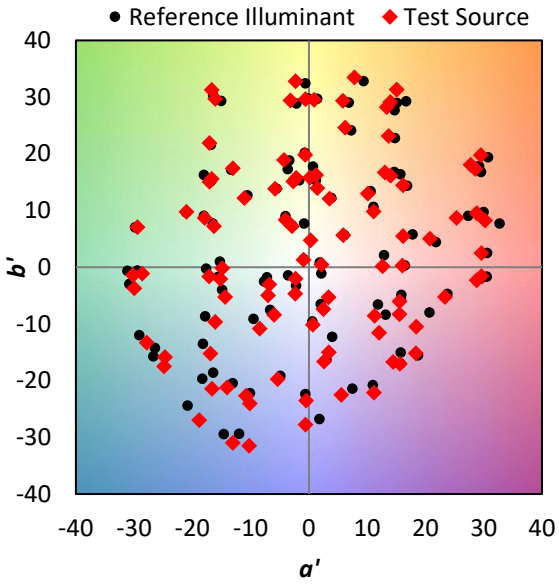
Summary

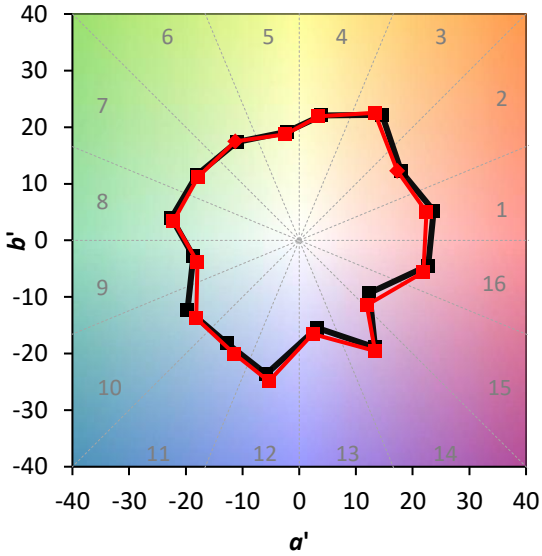
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R_g = 99.5
CIE R_a = 93.8
R_9 = 68.4

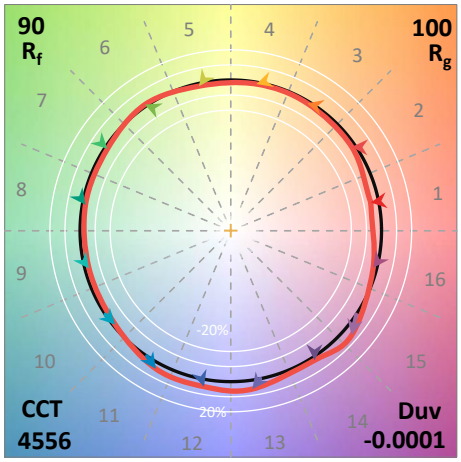
Spectral Power Distribution Comparison

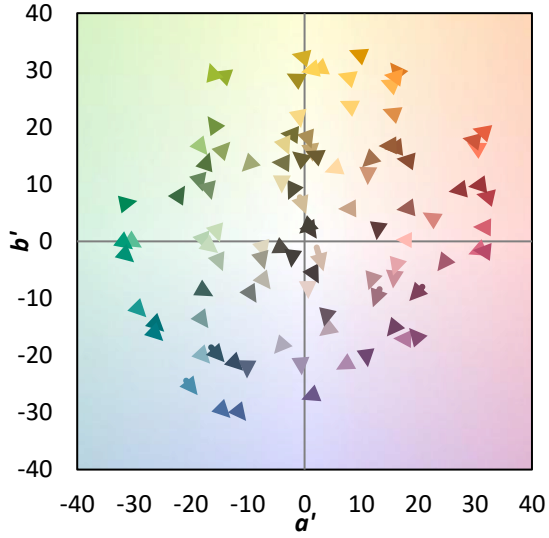


Color Vector Graphics







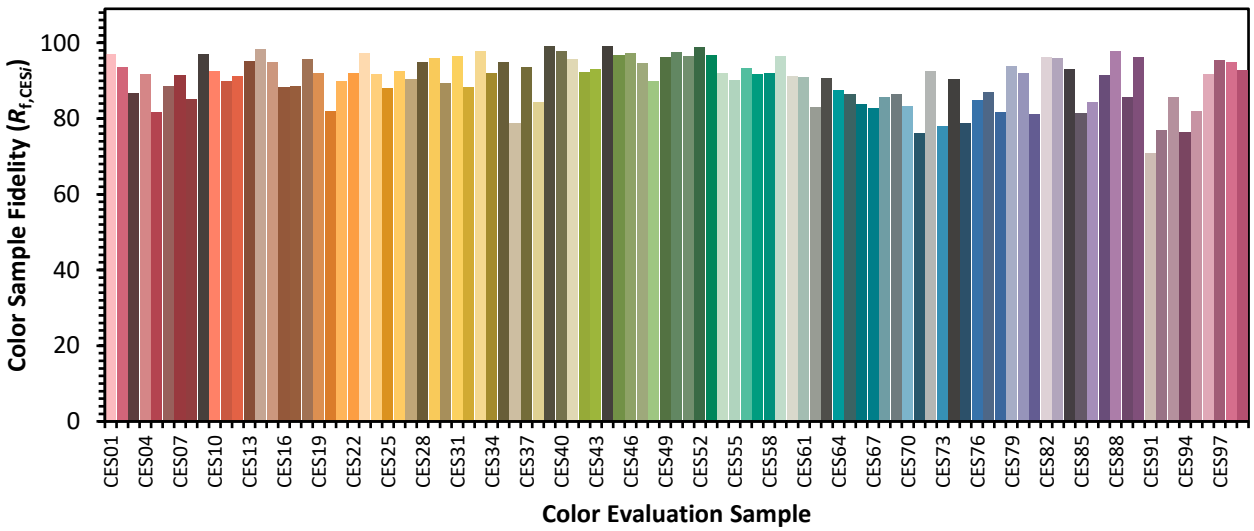


REPORT NUMBER: SP1-2512-631-28-R2

TM-30-18

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

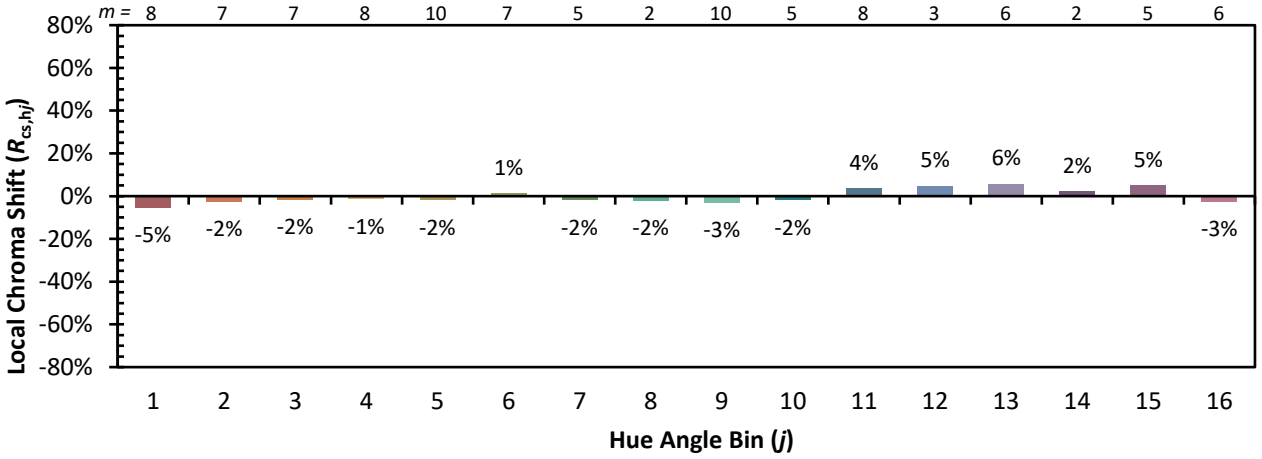
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CES02 = 61	CES27 = 90	CES52 = 99	CES77 = 87
CES03 = 31	CES28 = 95	CES53 = 97	CES78 = 82
CES04 = 69	CES29 = 96	CES54 = 92	CES79 = 94
CES05 = 48	CES30 = 89	CES55 = 90	CES80 = 92
CES06 = 50	CES31 = 97	CES56 = 93	CES81 = 81
CES07 = 41	CES32 = 88	CES57 = 92	CES82 = 96
CES08 = 40	CES33 = 98	CES58 = 92	CES83 = 96
CES09 = 29	CES34 = 92	CES59 = 97	CES84 = 93
CES10 = 74	CES35 = 95	CES60 = 91	CES85 = 82
CES11 = 56	CES36 = 79	CES61 = 91	CES86 = 84
CES12 = 62	CES37 = 94	CES62 = 83	CES87 = 91
CES13 = 43	CES38 = 84	CES63 = 91	CES88 = 98
CES14 = 74	CES39 = 99	CES64 = 87	CES89 = 86
CES15 = 71	CES40 = 98	CES65 = 86	CES90 = 96
CES16 = 47	CES41 = 96	CES66 = 84	CES91 = 71
CES17 = 49	CES42 = 92	CES67 = 83	CES92 = 77
CES18 = 56	CES43 = 93	CES68 = 86	CES93 = 86
CES19 = 70	CES44 = 99	CES69 = 87	CES94 = 76
CES20 = 65	CES45 = 97	CES70 = 83	CES95 = 82
CES21 = 85	CES46 = 97	CES71 = 76	CES96 = 92
CES22 = 77	CES47 = 95	CES72 = 92	CES97 = 95
CES23 = 91	CES48 = 90	CES73 = 78	CES98 = 95
CES24 = 90	CES49 = 96	CES74 = 91	CES99 = 93
CES25 = 70	CES50 = 98	CES75 = 79	

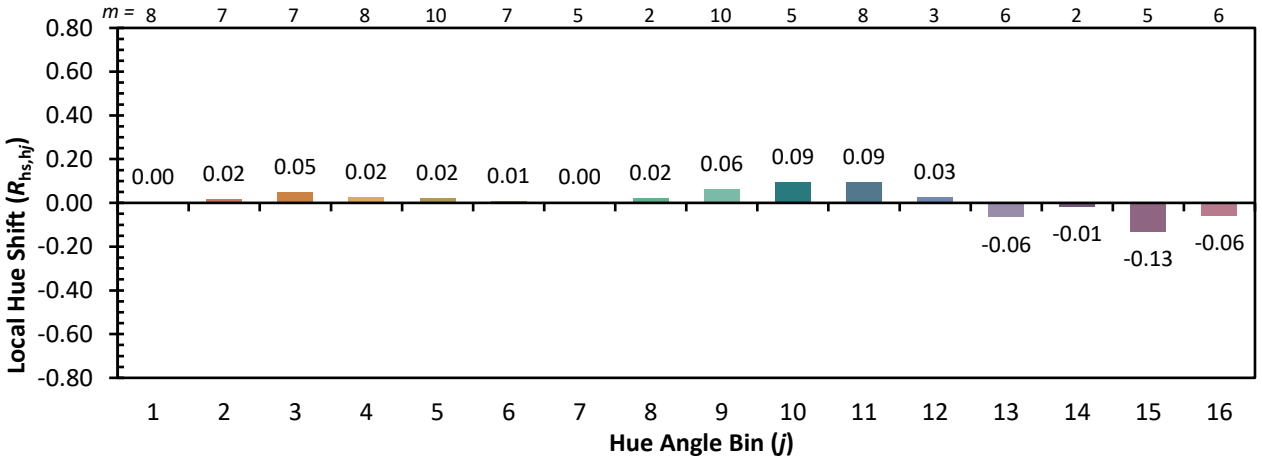


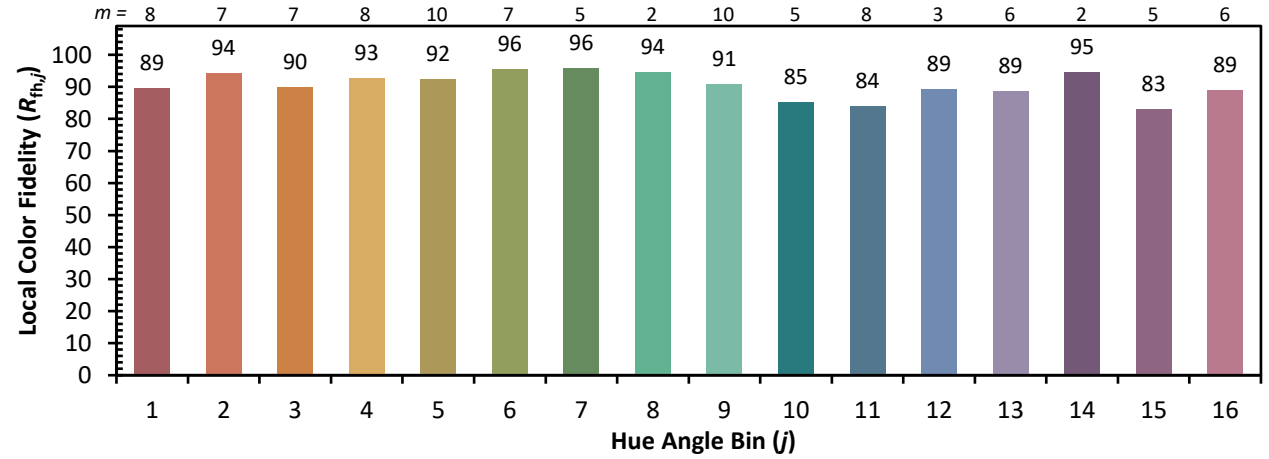
REPORT NUMBER: SP1-2512-631-28-R2

TM-30-18

Color Rendition by Hue-Angle Bin



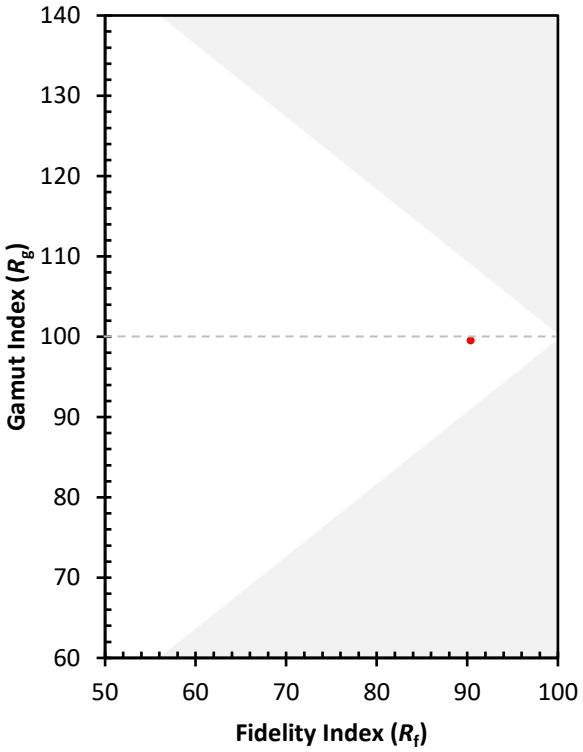


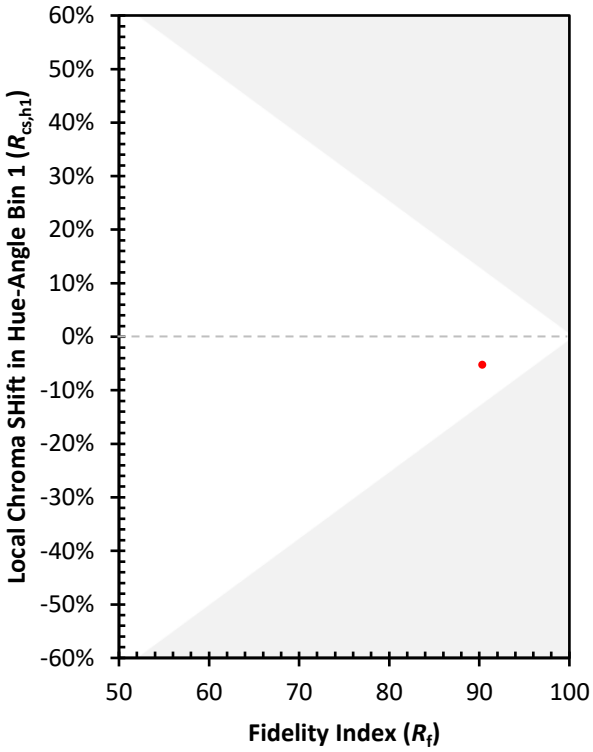


REPORT NUMBER: SP1-2512-631-28-R2

TM-30-18

Measure Comparisons





(END OF REPORT)