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: P1590796

Luminaire Tested: 24CGTX-45-L92765-W2A-4500K

Issue Date: 9/7/2026

Report Generated By 670265710 / DESKTOP-98SHLC4

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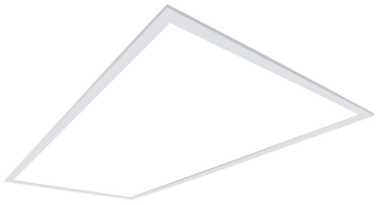
Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1590796
	TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G3-2510-586-8)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	9/7/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	24CGTX-45-L92765-W2A-4500K
Description:	2X4 4500 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:	5055.8 lumens
Efficiency:	N/A
Efficacy:	113.9 lumens/watt
Spacing Criteria (0/90/45):	1.27 / 1.27 / 1.39
Luminous Opening:	Rectangular (W 2' x L: 4' x H: 0')
CIE Type:	Direct
Input Watts (W):	44.4
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

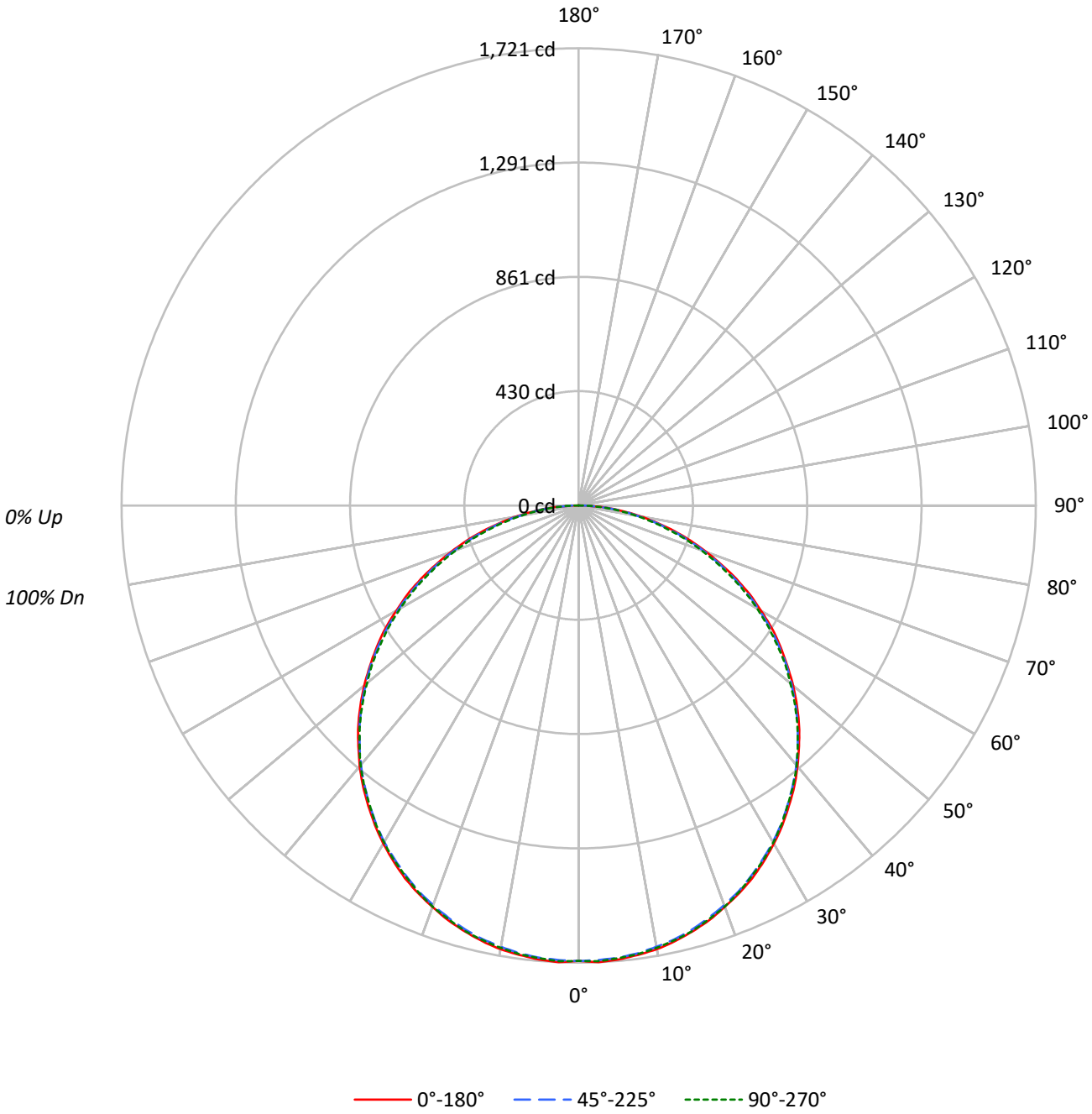


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Scaled Data Report

TEST NUMBER: P1590796
CATALOG NUMBER: 24CGTX-45-L92765-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	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	67	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	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	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	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2307	2307	2307
5°	2317	2308	2310
10°	2317	2305	2310
15°	2311	2302	2309
20°	2303	2293	2301
25°	2298	2283	2287
30°	2284	2273	2276
35°	2267	2255	2255
40°	2252	2239	2243
45°	2234	2218	2216
50°	2206	2189	2177
55°	2175	2156	2135
60°	2132	2110	2088
65°	2087	2047	2015
70°	2007	1971	1923
75°	1940	1876	1802
80°	1830	1759	1680
85°	1704	1595	1516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2234 cd/sqm

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Scaled Data Report

TEST NUMBER: P1590796
CATALOG NUMBER: 24CGTX-45-L92765-W2A-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.6	3.2
10°-20°	466.9	9.2
20°-30°	710.3	14.0
30°-40°	860.7	17.0
40°-50°	899.7	17.8
50°-60°	821.2	16.2
60°-70°	636.4	12.6
70°-80°	381.8	7.6
80°-90°	116.2	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°	1339.7	26.5
0°-40°	2200.5	43.5
0°-60°	3921.4	77.6
0°-90°	5055.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5055.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1715	1715	1715	1715	1715	
5°	1716	1710	1708	1706	1710	163
15°	1659	1655	1652	1651	1657	468
25°	1548	1542	1538	1541	1541	713
35°	1380	1379	1373	1372	1373	864
45°	1174	1170	1166	1162	1165	905
55°	927	924	919	914	910	829
65°	655	651	643	635	633	647
75°	373	368	361	354	347	393
85°	110	107	103	99	98	122
90°	0	0	0	0	0	

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TEST NUMBER: P1590796
CATALOG NUMBER: 24CGTX-45-L92765-W2A-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1714.6*	1714.6	1714.6	1714.6	1714.6
2.5°	*1720.8*	*1714.6*	*1712.6*	*1710.5*	*1716.7*
5°	*1715.7*	1710.5	1708.5	1706.5	1710.5
7.5°	*1706.5*	1702.4	1700.3	1698.3	1703.4
10°	*1696.2*	1691.1	1687.0	1686.0	1691.1
12.5°	*1679.9*	1673.7	1671.7	1671.7	1675.8
15°	*1659.4*	1655.3	1652.3	1651.2	1657.4
17.5°	*1636.9*	1631.8	1627.7	1628.7	1632.8
20°	*1608.3*	1605.2	1601.1	1603.2	1607.3
22.5°	*1579.7*	1576.6	1572.5	1572.5	1575.6
25°	*1548.0*	1541.8	1537.8	1540.8	1540.8
27.5°	*1510.1*	1505.0	1500.9	1502.0	1505.0
30°	*1470.3*	1467.2	1463.1	1462.1	1465.2
32.5°	*1427.3*	1423.2	1420.2	1419.1	1422.2
35°	*1380.3*	1379.3	1373.1	1372.1	1373.1
37.5°	*1333.3*	1330.2	1325.1	1325.1	1327.1
40°	*1282.1*	1278.1	1275.0	1271.9	1277.0
42.5°	*1228.0*	1225.9	1220.8	1219.8	1220.8
45°	*1173.8*	1169.7	1165.6	1162.5	1164.6
47.5°	*1114.5*	1113.4	1107.3	1104.2	1103.2
50°	*1054.1*	1052.1	1046.0	1041.9	1039.8
52.5°	*989.7*	988.7	985.6	979.5	979.5
55°	*927.4*	924.3	919.2	914.1	910.0
57.5°	*864.0*	857.8	852.7	845.6	844.5
60°	*792.4*	789.3	784.2	777.1	776.0
62.5°	*727.0*	720.8	714.7	707.5	704.5
65°	*655.4*	651.3	643.1	634.9	632.9
67.5°	*581.8*	579.7	573.6	562.3	561.3
70°	*510.2*	507.1	501.0	492.8	488.7
72.5°	*442.7*	438.6	429.4	424.3	420.2
75°	*373.2*	368.1	360.9	353.8	346.6
77.5°	*301.6*	300.6	294.5	285.3	281.2
80°	*236.2*	232.1	227.0	218.8	216.8
82.5°	*171.8*	169.7	165.6	157.5	156.4
85°	*110.4*	107.4	103.3	99.2	98.2
87.5°	*47.0*	47.0	47.0	45.0	45.0
90°	*0.0*	0.0	0.0	0.0	0.0

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CATALOG NUMBER: 24CGTX-45-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	14.90	16.56	15.27	16.88	17.19	14.79	16.45	15.16	16.76	17.08
	3H	16.81	18.31	17.19	18.64	19.00	16.64	18.15	17.02	18.47	18.83
	4H	17.57	18.98	17.96	19.33	19.71	17.35	18.77	17.75	19.12	19.49
	6H	18.15	19.47	18.57	19.83	20.23	17.90	19.21	18.31	19.58	19.97
	8H	18.36	19.62	18.79	20.01	20.41	18.08	19.34	18.51	19.73	20.13
	12H	18.52	19.72	18.95	20.10	20.53	18.22	19.42	18.65	19.80	20.23
4H	2H	15.55	16.97	15.95	17.31	17.69	15.46	16.88	15.86	17.23	17.60
	3H	17.68	18.88	18.09	19.27	19.67	17.54	18.74	17.95	19.13	19.53
	4H	18.58	19.66	19.01	20.07	20.51	18.39	19.47	18.82	19.88	20.32
	6H	19.31	20.26	19.76	20.69	21.15	19.06	20.01	19.52	20.45	20.91
	8H	19.57	20.46	20.03	20.90	21.37	19.30	20.19	19.76	20.63	21.10
	12H	19.78	20.58	20.26	21.05	21.52	19.49	20.28	19.96	20.76	21.23
8H	4H	18.91	19.80	19.37	20.24	20.71	18.75	19.64	19.21	20.08	20.54
	6H	19.78	20.52	20.27	21.01	21.48	19.56	20.30	20.05	20.79	21.26
	8H	20.13	20.80	20.64	21.30	21.79	19.88	20.54	20.39	21.05	21.53
	12H	20.43	21.02	20.94	21.51	22.07	20.14	20.73	20.65	21.22	21.78
12H	4H	18.96	19.76	19.44	20.23	20.70	18.80	19.60	19.28	20.07	20.54
	6H	19.85	20.52	20.36	21.02	21.51	19.64	20.30	20.15	20.81	21.29
	8H	20.27	20.86	20.77	21.35	21.91	20.02	20.61	20.53	21.10	21.66

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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

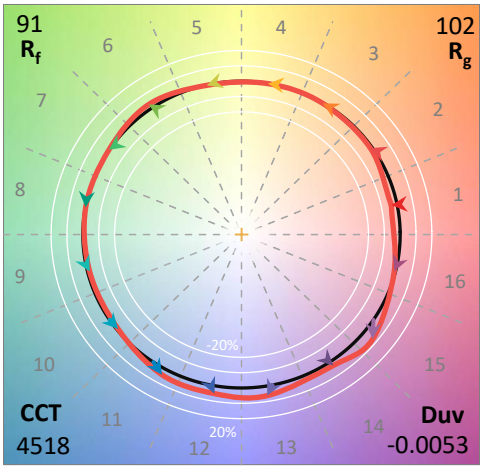
Test Information

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

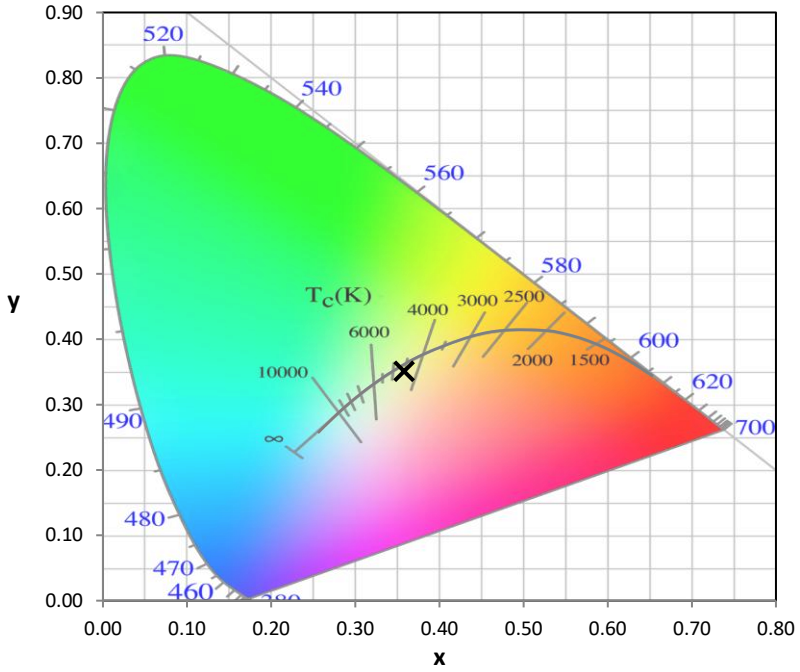
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	25.0

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

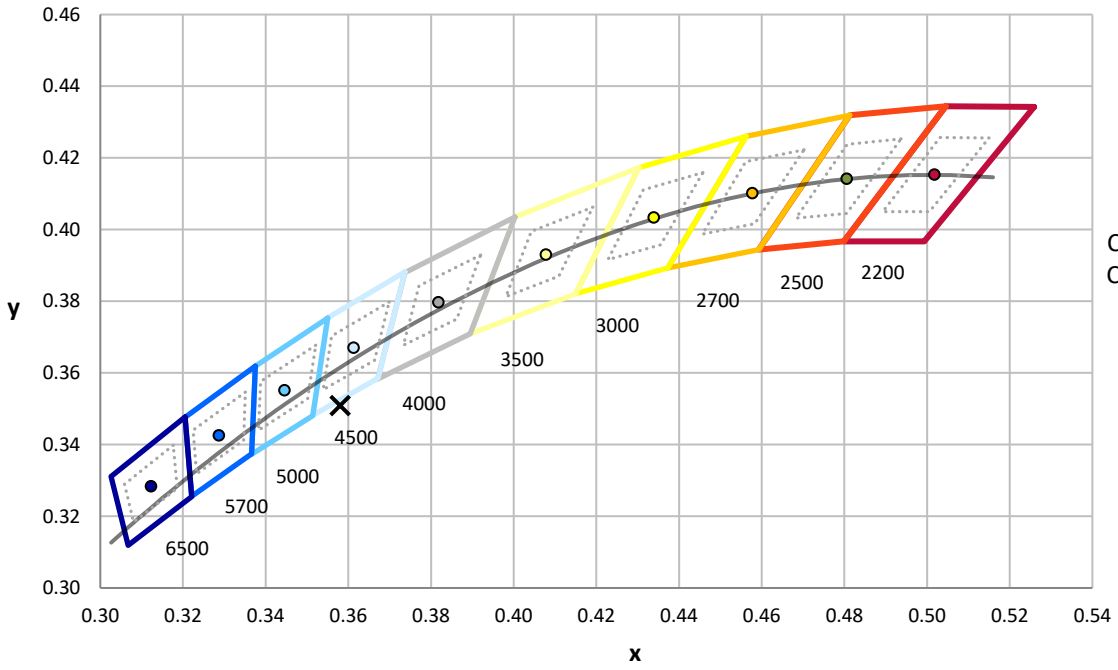
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

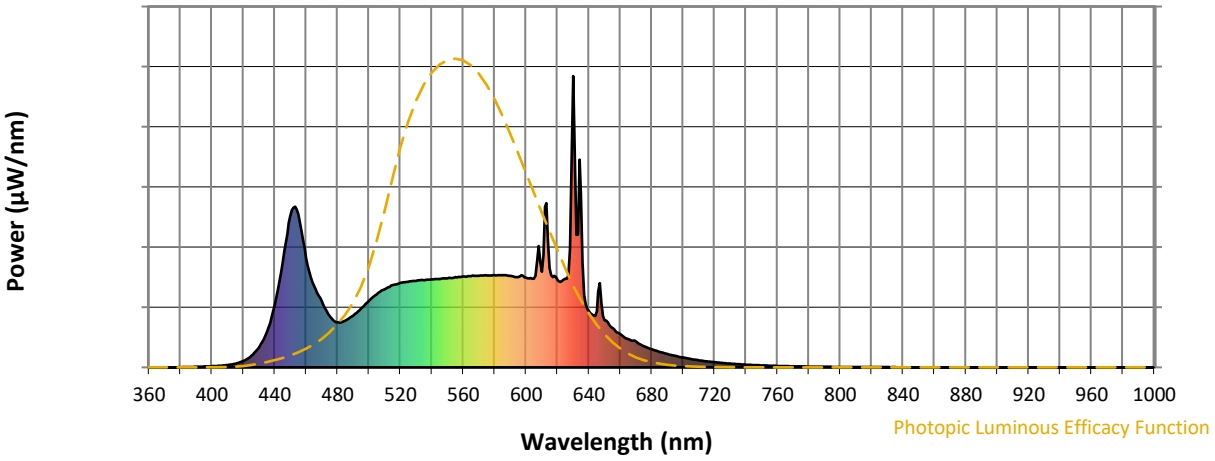


CCT = 4518K
CIE x = 0.3580
CIE y = 0.3509
Duv = -0.0053

Point lies outside the range

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

Photopic Flux vs. Wavelength

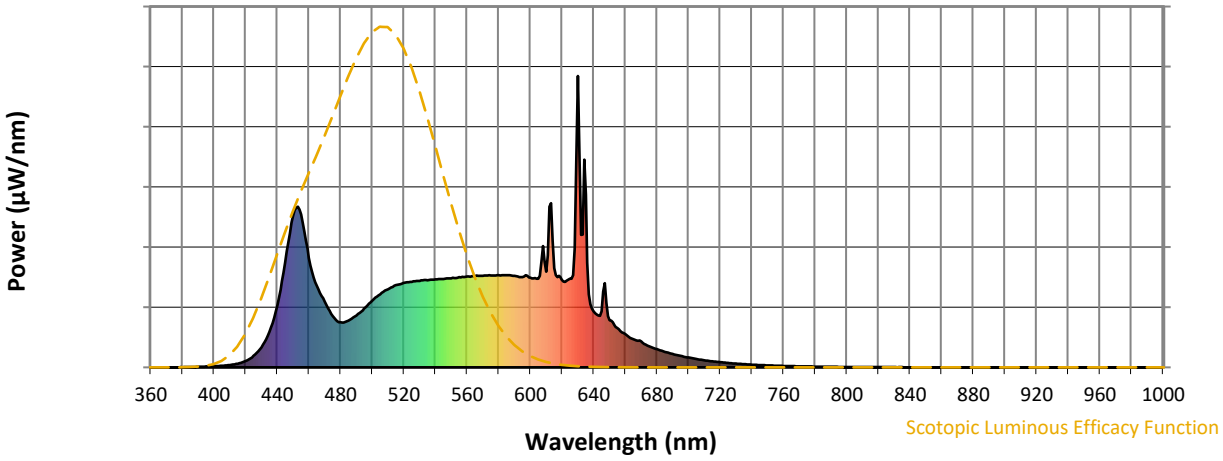


Photopic Lumens: NR

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

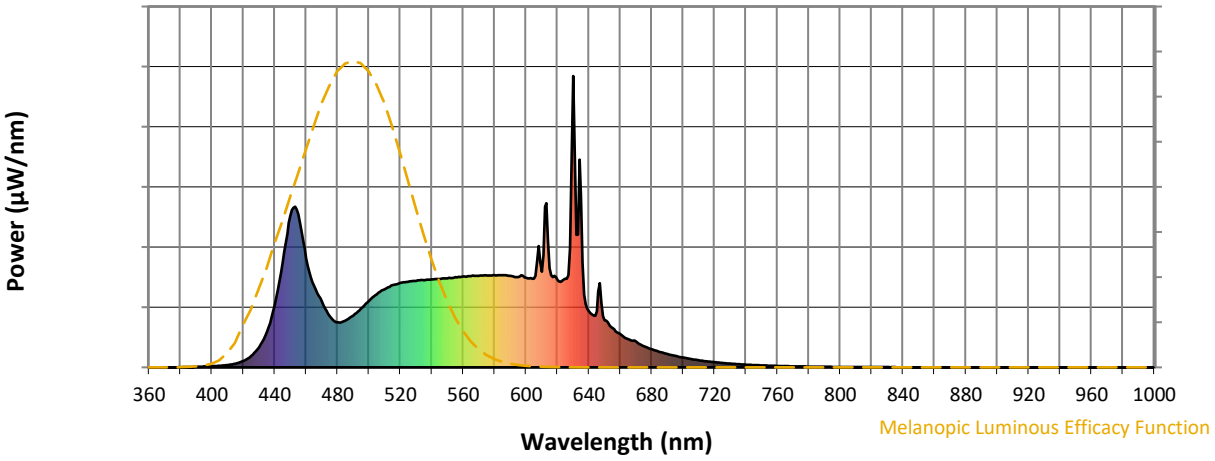


Scotopic Lumens: NR **S/P: 1.97**

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			

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

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			

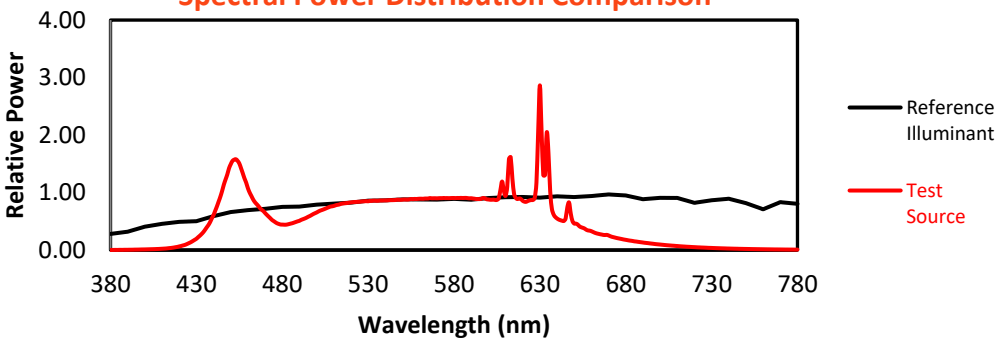
REPORT NUMBER: SP1-2510-566-12-R2

TM-30-18

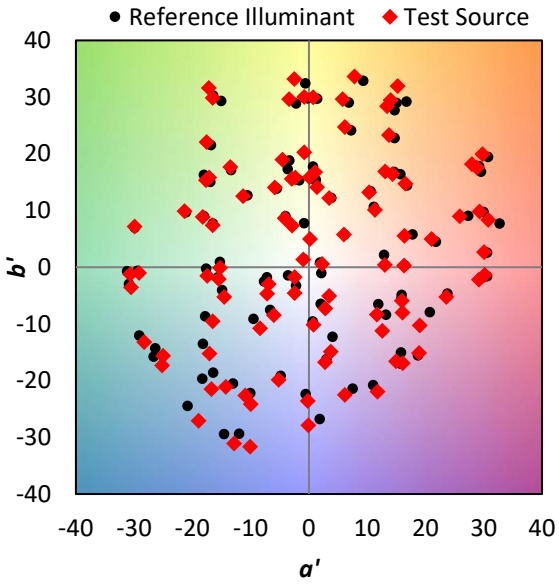
Summary

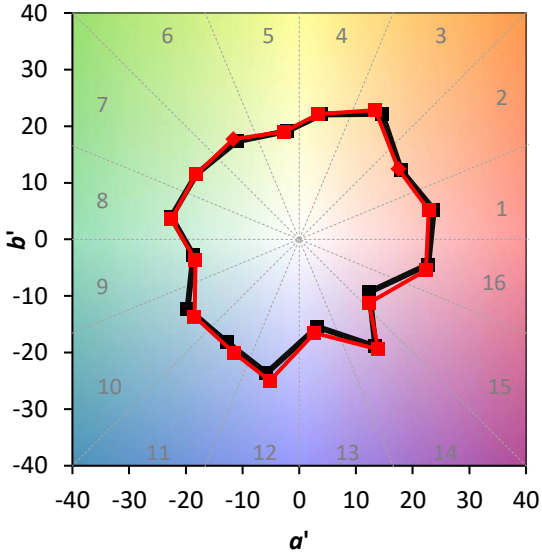
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R_g = 102
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R_9 = 83.9

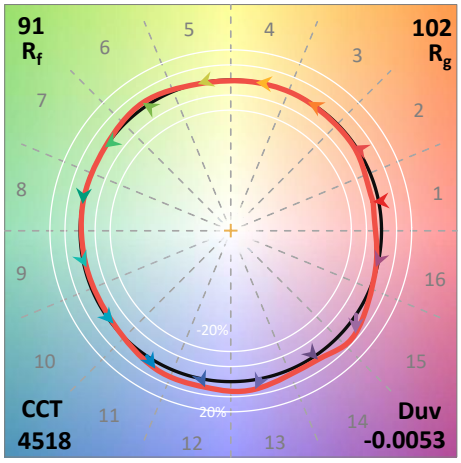
Spectral Power Distribution Comparison

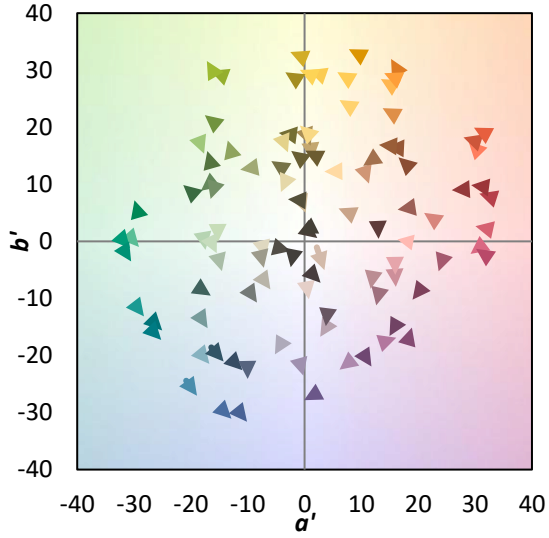


Color Vector Graphics







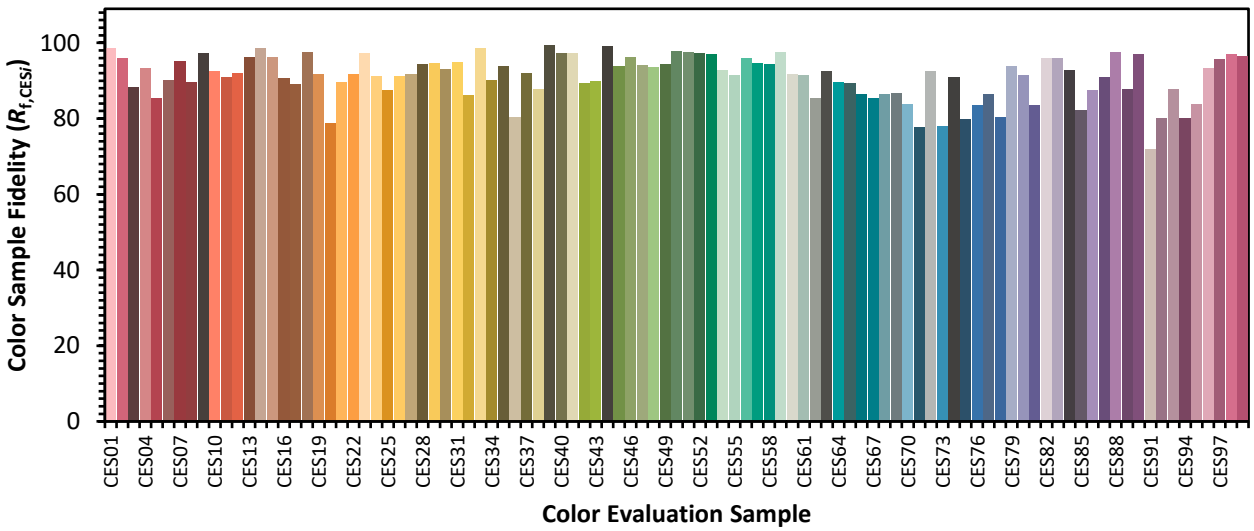


REPORT NUMBER: SP1-2510-566-12-R2

TM-30-18

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

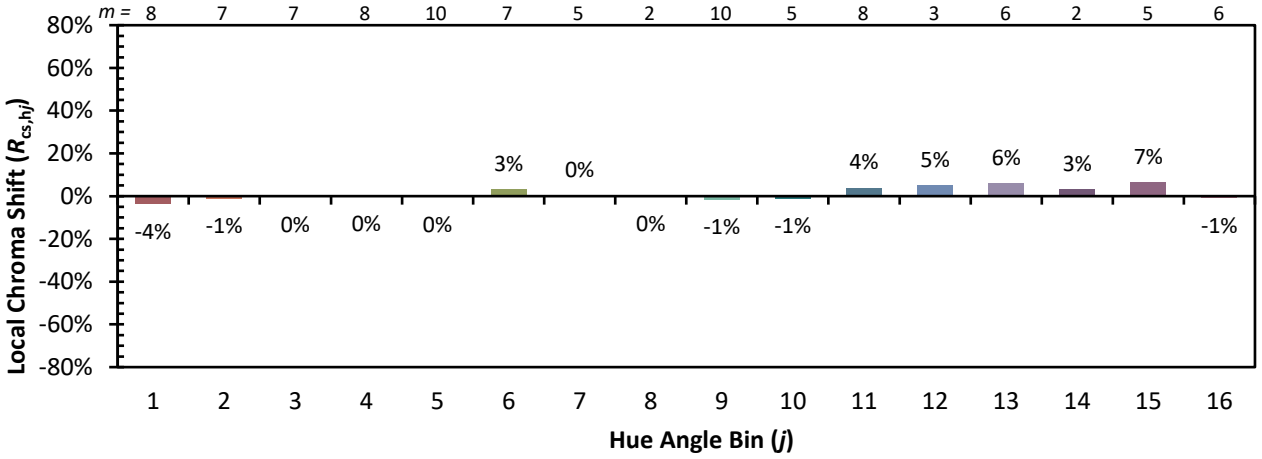
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CES02 = 61	CES27 = 92	CES52 = 97	CES77 = 87
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CES04 = 69	CES29 = 95	CES54 = 93	CES79 = 94
CES05 = 49	CES30 = 93	CES55 = 91	CES80 = 91
CES06 = 50	CES31 = 95	CES56 = 96	CES81 = 83
CES07 = 42	CES32 = 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	

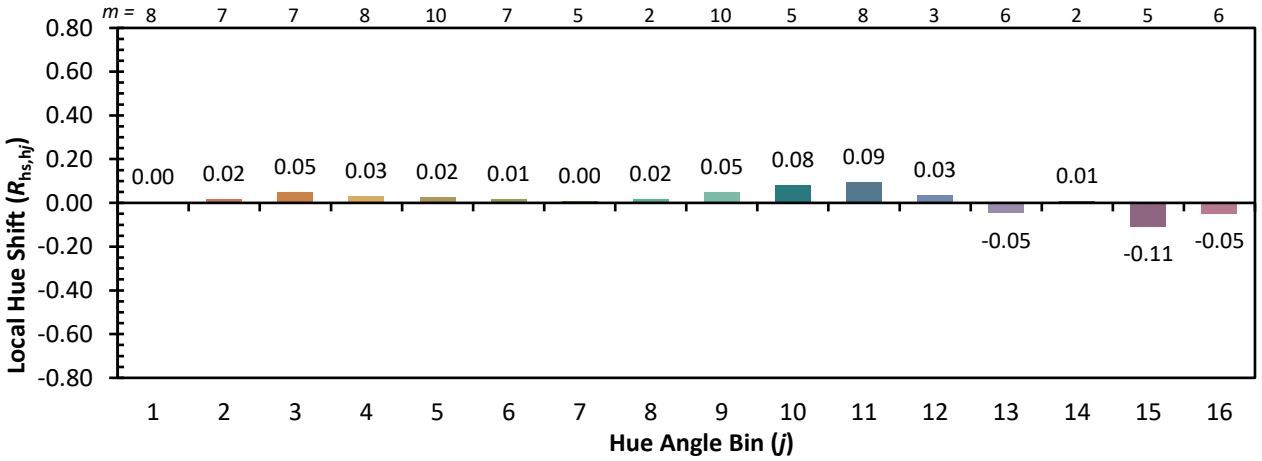


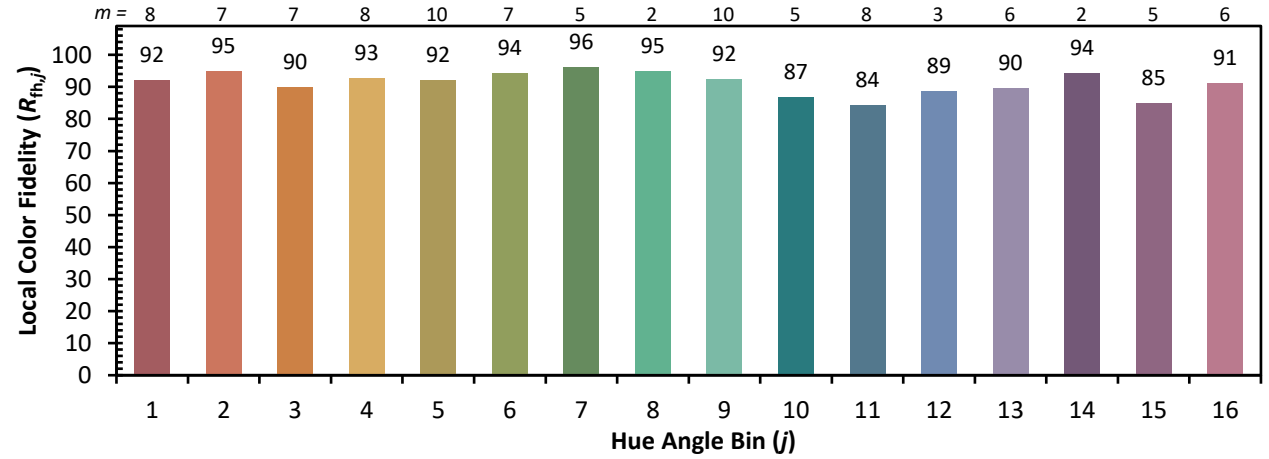
REPORT NUMBER: SP1-2510-566-12-R2

TM-30-18

Color Rendition by Hue-Angle Bin



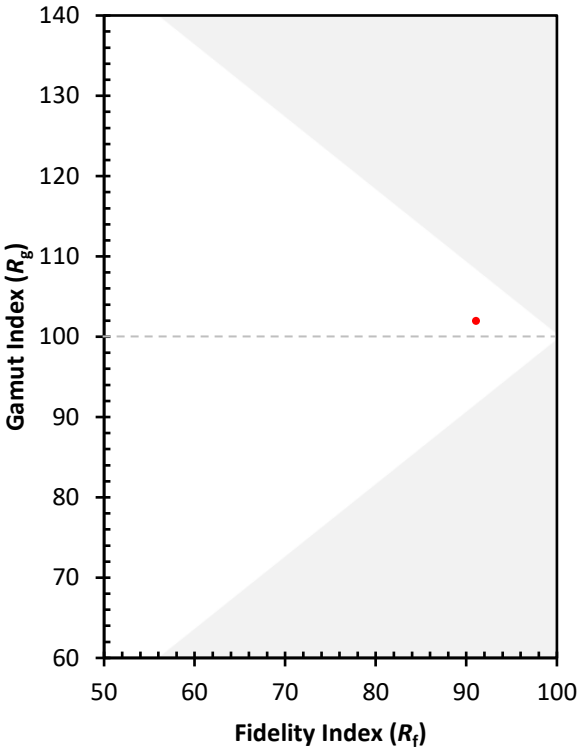


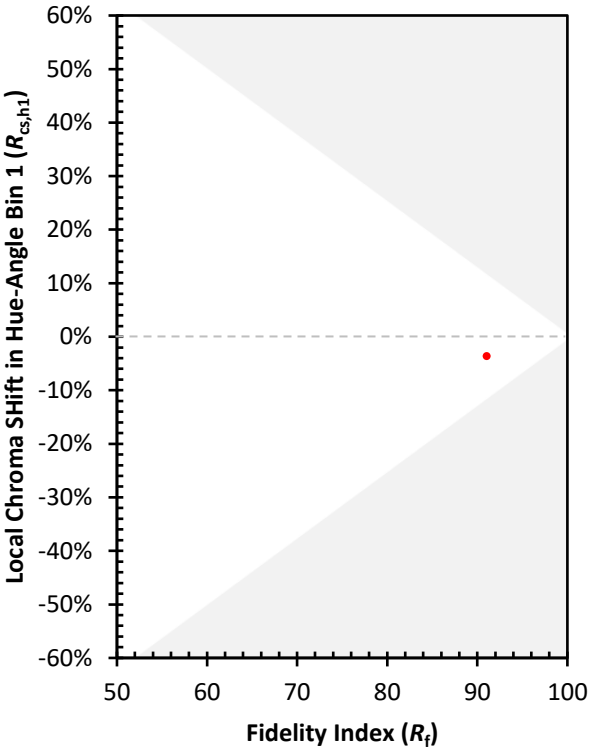


REPORT NUMBER: SP1-2510-566-12-R2

TM-30-18

Measure Comparisons





(END OF REPORT)