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: P1590680

Luminaire Tested: 24CGTX-45-B35-HCD

Issue Date: 9/4/2026

Report Generated By 670265710 / DESKTOP-98SHLC4

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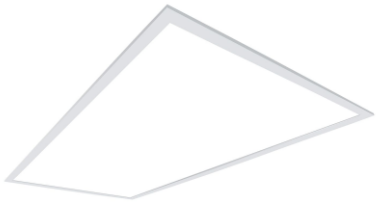
Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1590680
	TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2505-442-1)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	9/4/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	24CGTX-45-B35-HCD
Description:	2X4 4500 LUMEN CGTX TROFFER WITH BIO UP LEDS AT 3500K CCT WITH FROSTED SMOOTH LENS
Light Source:	3500K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4471.9 lumens
Efficiency:	N/A
Efficacy:	113.8 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):	39.3
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

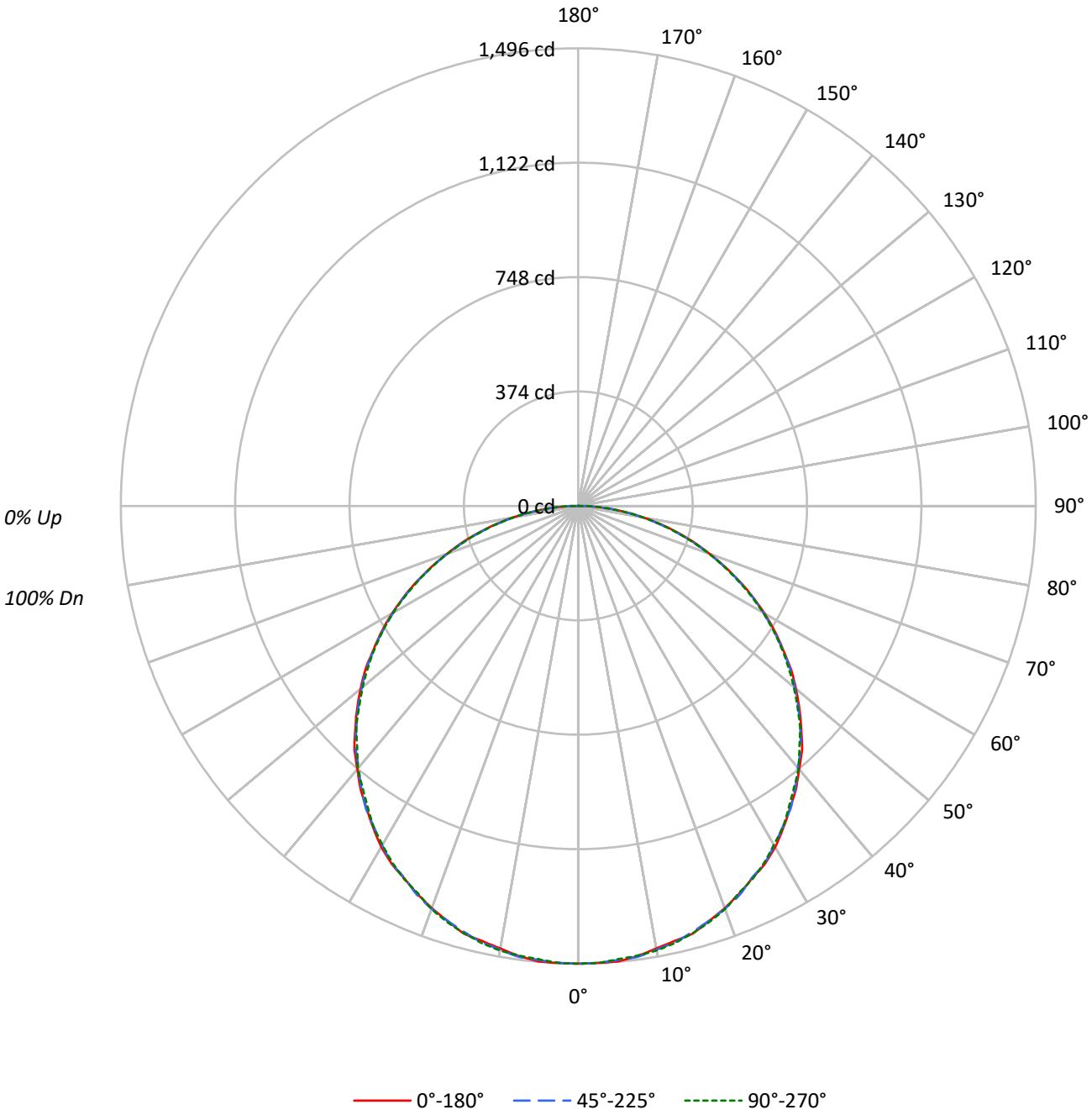


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Scaled Data Report

TEST NUMBER: P1590680
CATALOG NUMBER: 24CGTX-45-B35-HCD

Luminous Intensity Polar Plot



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TEST NUMBER: P1590680
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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	87	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	59	57
4	82	69	60	53	79	68	60	53	65	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	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	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	41	33	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2014	2014	2014
5°	2019	2012	2009
10°	2007	2012	2017
15°	2017	2009	2014
20°	2004	2007	2009
25°	1996	1992	1999
30°	2001	1991	1988
35°	1982	1987	1972
40°	1973	1962	1969
45°	1963	1953	1953
50°	1944	1935	1925
55°	1915	1909	1905
60°	1892	1881	1877
65°	1849	1839	1831
70°	1795	1782	1782
75°	1745	1720	1720
80°	1667	1635	1647
85°	1547	1496	1535

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 1963 cd/sqm

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TEST NUMBER: P1590680
CATALOG NUMBER: 24CGTX-45-B35-HCD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.8	3.2
10°-20°	407.4	9.1
20°-30°	620.5	13.9
30°-40°	754.0	16.9
40°-50°	790.9	17.7
50°-60°	726.9	16.3
60°-70°	571.0	12.8
70°-80°	349.7	7.8
80°-90°	109.7	2.5
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°	1169.7	26.2
0°-40°	1923.7	43.0
0°-60°	3441.5	77.0
0°-90°	4471.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4471.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1496	1496	1496	1496	1496	
5°	1495	1489	1490	1493	1488	142
15°	1448	1442	1442	1443	1446	407
25°	1344	1349	1342	1343	1347	621
35°	1206	1206	1210	1201	1201	756
45°	1031	1026	1026	1019	1026	796
55°	816	816	814	809	812	732
65°	581	584	578	571	575	575
75°	336	335	331	325	331	354
85°	100	99	97	94	99	112
90°	0	0	0	0	0	

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Scaled Data Report

TEST NUMBER: P1590680
CATALOG NUMBER: 24CGTX-45-B35-HCD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1496.5*	*1496.5*	*1496.5*	*1496.5*	*1496.5*
2.5°	*1495.7*	1496.5	1494.9	1494.1	1495.7
5°	*1494.9*	1489.2	1490.0	1493.3	1487.6
7.5°	*1484.3*	1482.7	1487.6	1487.6	1482.7
10°	*1468.8*	1474.5	1472.9	1468.8	1476.2
12.5°	*1456.6*	1459.1	1461.5	1461.5	1463.1
15°	*1447.7*	1442.0	1442.0	1442.8	1446.0
17.5°	*1422.4*	1422.4	1421.6	1422.4	1426.5
20°	*1399.6*	1402.9	1402.0	1399.6	1402.9
22.5°	*1373.5*	1377.6	1377.6	1375.2	1370.3
25°	*1344.2*	1349.1	1341.8	1343.4	1346.6
27.5°	*1320.6*	1312.4	1318.9	1311.6	1315.7
30°	*1288.0*	1282.3	1281.5	1273.3	1279.8
32.5°	*1248.1*	1250.5	1244.0	1238.3	1245.6
35°	*1206.5*	1206.5	1209.8	1200.8	1200.8
37.5°	*1169.0*	1169.0	1165.0	1157.6	1159.3
40°	*1123.4*	1123.4	1116.9	1112.8	1121.0
42.5°	*1083.5*	1077.0	1077.0	1066.4	1069.7
45°	*1031.4*	1025.7	1026.5	1019.1	1026.5
47.5°	*980.9*	980.9	976.0	968.6	971.9
50°	*928.7*	926.3	924.6	916.5	919.8
52.5°	*877.4*	870.9	872.5	860.3	866.0
55°	*816.3*	815.5	813.9	809.0	812.2
57.5°	*761.7*	759.3	757.6	751.1	756.0
60°	*703.1*	701.4	699.0	693.3	697.4
62.5°	*642.8*	643.6	639.5	631.4	637.1
65°	*580.9*	584.1	577.6	571.1	575.2
67.5°	*518.1*	518.9	515.7	510.0	514.9
70°	*456.2*	457.8	453.0	447.3	453.0
72.5°	*396.7*	396.7	391.9	387.0	391.0
75°	*335.6*	334.8	330.8	325.1	330.8
77.5°	*275.4*	273.7	269.7	264.8	271.3
80°	*215.1*	213.4	211.0	205.3	212.6
82.5°	*157.2*	155.6	154.8	149.1	154.8
85°	*100.2*	98.6	96.9	93.7	99.4
87.5°	*46.4*	46.4	46.4	45.6	50.5
90°	*0.0*	0.0	0.0	0.0	0.0

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TEST NUMBER: P1590680
CATALOG NUMBER: 24CGTX-45-B35-HCD

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	14.47	16.13	14.83	16.45	16.76	14.40	16.06	14.76	16.38	16.69
	3H	16.41	17.92	16.79	18.25	18.61	16.33	17.84	16.71	18.17	18.53
	4H	17.19	18.61	17.59	18.96	19.34	17.10	18.52	17.49	18.87	19.24
	6H	17.80	19.13	18.21	19.49	19.88	17.71	19.03	18.12	19.39	19.78
	8H	18.02	19.29	18.45	19.68	20.08	17.92	19.19	18.35	19.58	19.97
	12H	18.18	19.40	18.61	19.78	20.21	18.08	19.29	18.51	19.68	20.10
4H	2H	15.14	16.56	15.53	16.91	17.29	15.08	16.51	15.48	16.85	17.23
	3H	17.31	18.51	17.72	18.91	19.31	17.24	18.44	17.65	18.84	19.23
	4H	18.23	19.32	18.66	19.73	20.16	18.13	19.22	18.56	19.63	20.07
	6H	18.99	19.94	19.44	20.38	20.83	18.88	19.83	19.33	20.27	20.72
	8H	19.26	20.16	19.72	20.60	21.06	19.15	20.04	19.61	20.48	20.95
	12H	19.48	20.28	19.95	20.76	21.23	19.36	20.17	19.84	20.64	21.11
8H	4H	18.58	19.48	19.04	19.92	20.38	18.50	19.40	18.96	19.84	20.30
	6H	19.48	20.23	19.97	20.72	21.19	19.38	20.13	19.87	20.61	21.09
	8H	19.85	20.52	20.35	21.02	21.51	19.73	20.41	20.24	20.91	21.39
	12H	20.15	20.75	20.66	21.24	21.80	20.03	20.63	20.54	21.12	21.67
12H	4H	18.63	19.44	19.11	19.91	20.38	18.55	19.36	19.03	19.83	20.30
	6H	19.56	20.23	20.07	20.74	21.22	19.46	20.13	19.97	20.64	21.12
	8H	19.99	20.59	20.50	21.08	21.63	19.88	20.48	20.39	20.97	21.53

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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: SP1-2507-484-6-R2

Test Date: 08/13/2025

Luminaire Tested: 24CGTX-55HE-B35-HCD

Data in this report applies to families of products including 24CGTX-55HE-B35-HCD

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

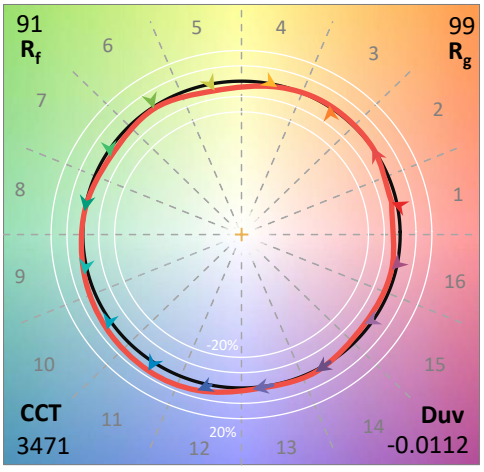
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2507-484-6-R2
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	09/08/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Metalux
Catalog Number:	**24CGTX-55HE-B35-HCD**
Description:	*THIS IS A REVISION OF REPORT SP1-2504-484-6 TO UPDATE THE CATALOG INFORMATION* 2X4 5500 Lumen CGTX with MDER board at 3500K

Spectral Parameters

CCT (K):	3471
CIE u':	0.2417
CIE v':	0.4970
Duv:	-0.0112
CIE x:	0.3956
CIE y:	0.3615
CIE z:	0.2429
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	587
Purity:	27.18426
Rf:	90.9
Rg:	99.4

CRI (Ra):	90.5
R1:	93.4
R2:	90.2
R3:	90.1
R4:	96.6
R5:	92.2
R6:	83.3
R7:	88.1
R8:	90.3
R9:	87.9
R10:	81.6
R11:	95.9
R12:	74.5
R13:	91.7
R14:	96.1
R15:	94.9



Test Conditions

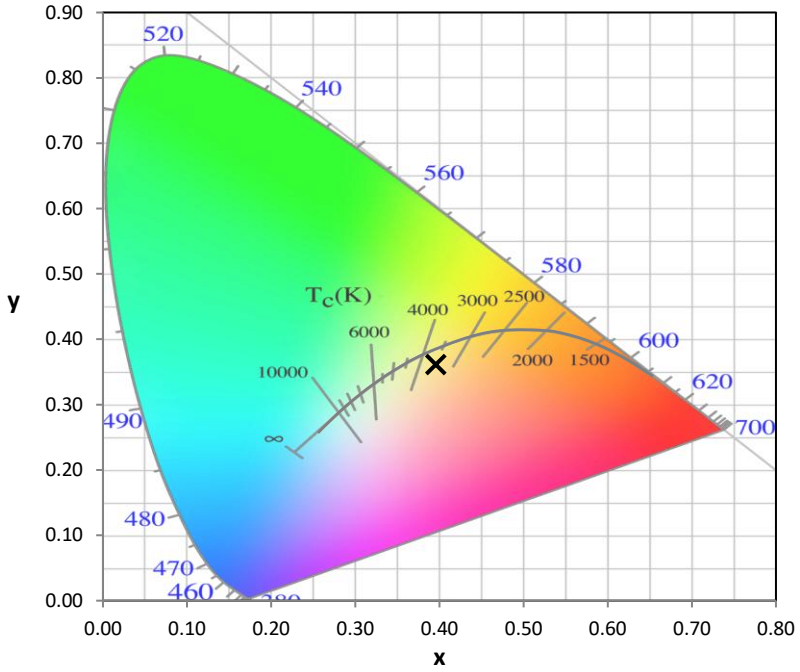
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2507-484-6-R2

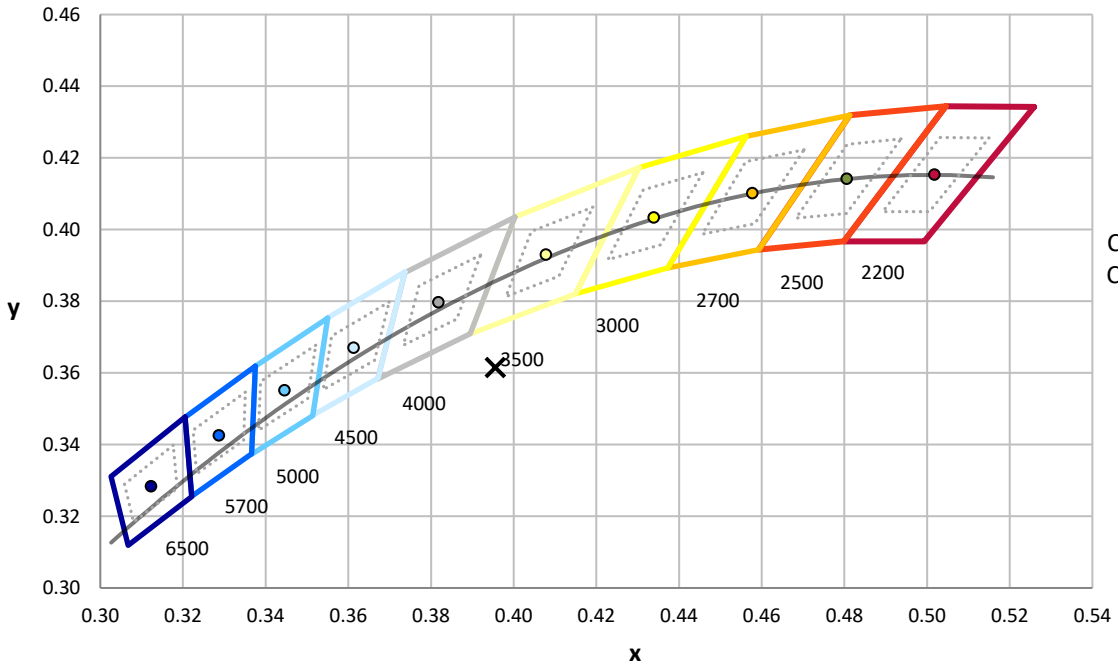
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2507-484-6-R2

CIE 1931 Chromaticity Diagram



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

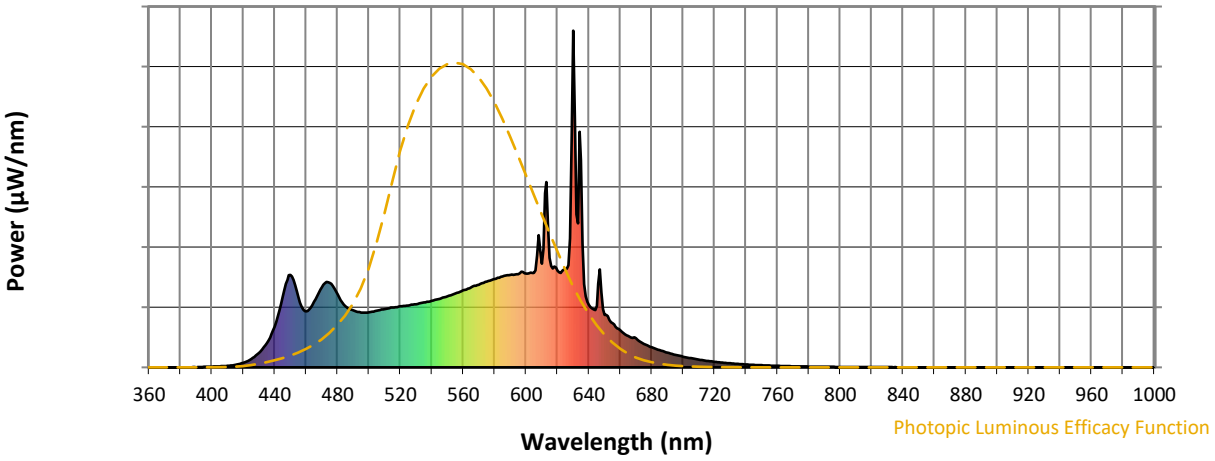


CCT = 3471K
CIE x = 0.3956
CIE y = 0.3615
Duv = -0.0112

Point lies outside the range

REPORT NUMBER: SP1-2507-484-6-R2

Photopic Flux vs. Wavelength

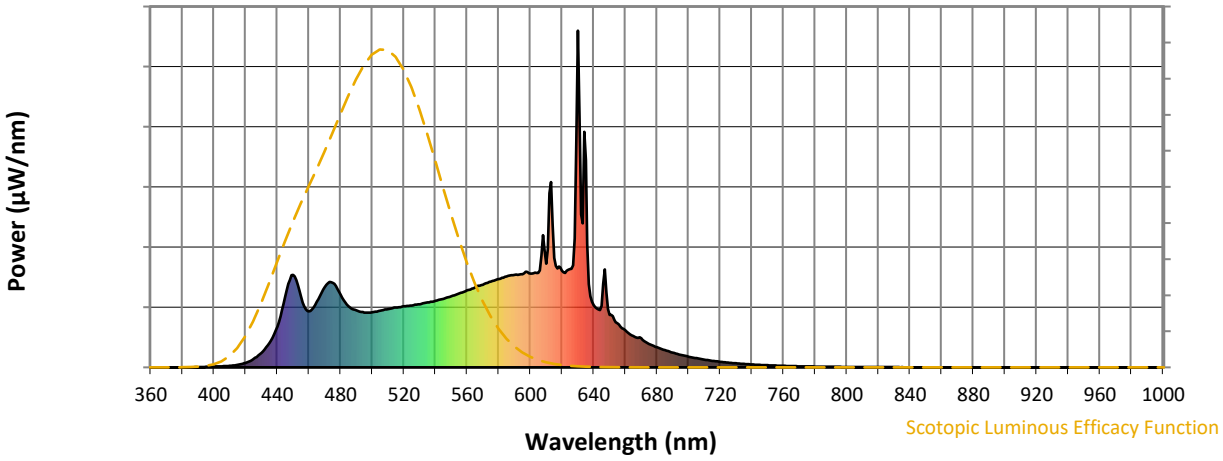


Photopic Lumens: NR

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	169	NR	620	287	NR	750	6	NR	880	0	NR
365	0	NR	495	163	NR	625	292	NR	755	5	NR	885	0	NR
370	0	NR	500	164	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	168	NR	635	615	NR	765	4	NR	895	0	NR
380	0	NR	510	173	NR	640	186	NR	770	3	NR	900	0	NR
385	0	NR	515	178	NR	645	183	NR	775	3	NR	905	0	NR
390	0	NR	520	181	NR	650	156	NR	780	2	NR	910	0	NR
395	2	NR	525	184	NR	655	131	NR	785	2	NR	915	0	NR
400	2	NR	530	187	NR	660	111	NR	790	2	NR	920	0	NR
405	3	NR	535	193	NR	665	93	NR	795	2	NR	925	0	NR
410	5	NR	540	198	NR	670	86	NR	800	1	NR	930	0	NR
415	7	NR	545	203	NR	675	70	NR	805	1	NR	935	0	NR
420	14	NR	550	211	NR	680	60	NR	810	1	NR	940	0	NR
425	25	NR	555	220	NR	685	51	NR	815	1	NR	945	0	NR
430	43	NR	560	229	NR	690	44	NR	820	1	NR	950	0	NR
435	72	NR	565	237	NR	695	37	NR	825	1	NR	955	0	NR
440	121	NR	570	246	NR	700	32	NR	830	1	NR	960	0	NR
445	209	NR	575	255	NR	705	27	NR	835	1	NR	965	0	NR
450	275	NR	580	263	NR	710	23	NR	840	0	NR	970	0	NR
455	209	NR	585	270	NR	715	20	NR	845	0	NR	975	0	NR
460	166	NR	590	275	NR	720	17	NR	850	0	NR	980	0	NR
465	195	NR	595	277	NR	725	14	NR	855	0	NR	985	0	NR
470	239	NR	600	279	NR	730	12	NR	860	0	NR	990	0	NR
475	251	NR	605	281	NR	735	10	NR	865	0	NR	995	0	NR
480	217	NR	610	308	NR	740	9	NR	870	0	NR	1000	0	NR
485	182	NR	615	325	NR	745	7	NR	875	0	NR			

REPORT NUMBER: SP1-2507-484-6-R2

Scotopic Flux vs. Wavelength

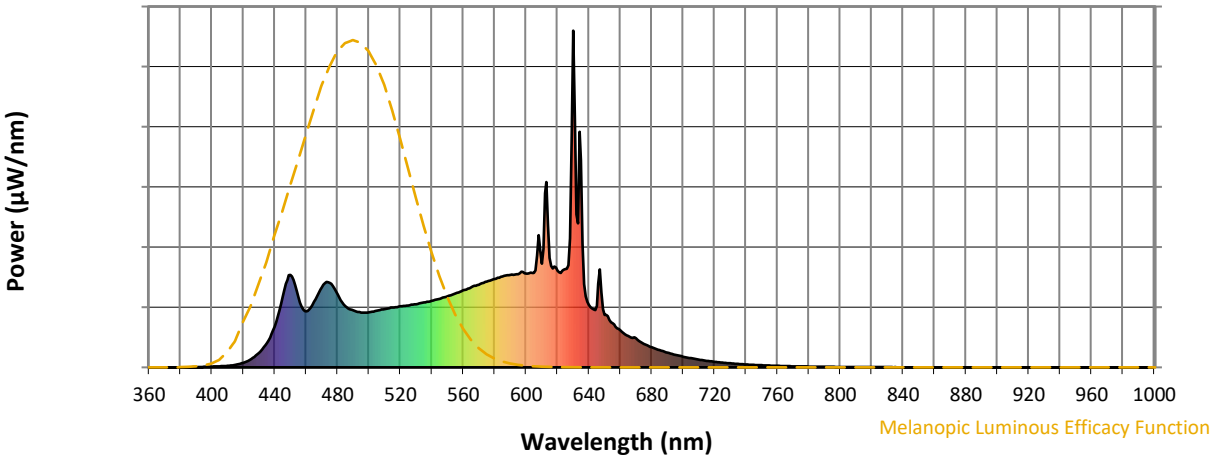


Scotopic Lumens: NR **S/P: 1.8**

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	169	NR	620	287	NR	750	6	NR	880	0	NR
365	0	NR	495	163	NR	625	292	NR	755	5	NR	885	0	NR
370	0	NR	500	164	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	168	NR	635	615	NR	765	4	NR	895	0	NR
380	0	NR	510	173	NR	640	186	NR	770	3	NR	900	0	NR
385	0	NR	515	178	NR	645	183	NR	775	3	NR	905	0	NR
390	0	NR	520	181	NR	650	156	NR	780	2	NR	910	0	NR
395	2	NR	525	184	NR	655	131	NR	785	2	NR	915	0	NR
400	2	NR	530	187	NR	660	111	NR	790	2	NR	920	0	NR
405	3	NR	535	193	NR	665	93	NR	795	2	NR	925	0	NR
410	5	NR	540	198	NR	670	86	NR	800	1	NR	930	0	NR
415	7	NR	545	203	NR	675	70	NR	805	1	NR	935	0	NR
420	14	NR	550	211	NR	680	60	NR	810	1	NR	940	0	NR
425	25	NR	555	220	NR	685	51	NR	815	1	NR	945	0	NR
430	43	NR	560	229	NR	690	44	NR	820	1	NR	950	0	NR
435	72	NR	565	237	NR	695	37	NR	825	1	NR	955	0	NR
440	121	NR	570	246	NR	700	32	NR	830	1	NR	960	0	NR
445	209	NR	575	255	NR	705	27	NR	835	1	NR	965	0	NR
450	275	NR	580	263	NR	710	23	NR	840	0	NR	970	0	NR
455	209	NR	585	270	NR	715	20	NR	845	0	NR	975	0	NR
460	166	NR	590	275	NR	720	17	NR	850	0	NR	980	0	NR
465	195	NR	595	277	NR	725	14	NR	855	0	NR	985	0	NR
470	239	NR	600	279	NR	730	12	NR	860	0	NR	990	0	NR
475	251	NR	605	281	NR	735	10	NR	865	0	NR	995	0	NR
480	217	NR	610	308	NR	740	9	NR	870	0	NR	1000	0	NR
485	182	NR	615	325	NR	745	7	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.93**

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	169	NR	620	287	NR	750	6	NR	880	0	NR
365	0	NR	495	163	NR	625	292	NR	755	5	NR	885	0	NR
370	0	NR	500	164	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	168	NR	635	615	NR	765	4	NR	895	0	NR
380	0	NR	510	173	NR	640	186	NR	770	3	NR	900	0	NR
385	0	NR	515	178	NR	645	183	NR	775	3	NR	905	0	NR
390	0	NR	520	181	NR	650	156	NR	780	2	NR	910	0	NR
395	2	NR	525	184	NR	655	131	NR	785	2	NR	915	0	NR
400	2	NR	530	187	NR	660	111	NR	790	2	NR	920	0	NR
405	3	NR	535	193	NR	665	93	NR	795	2	NR	925	0	NR
410	5	NR	540	198	NR	670	86	NR	800	1	NR	930	0	NR
415	7	NR	545	203	NR	675	70	NR	805	1	NR	935	0	NR
420	14	NR	550	211	NR	680	60	NR	810	1	NR	940	0	NR
425	25	NR	555	220	NR	685	51	NR	815	1	NR	945	0	NR
430	43	NR	560	229	NR	690	44	NR	820	1	NR	950	0	NR
435	72	NR	565	237	NR	695	37	NR	825	1	NR	955	0	NR
440	121	NR	570	246	NR	700	32	NR	830	1	NR	960	0	NR
445	209	NR	575	255	NR	705	27	NR	835	1	NR	965	0	NR
450	275	NR	580	263	NR	710	23	NR	840	0	NR	970	0	NR
455	209	NR	585	270	NR	715	20	NR	845	0	NR	975	0	NR
460	166	NR	590	275	NR	720	17	NR	850	0	NR	980	0	NR
465	195	NR	595	277	NR	725	14	NR	855	0	NR	985	0	NR
470	239	NR	600	279	NR	730	12	NR	860	0	NR	990	0	NR
475	251	NR	605	281	NR	735	10	NR	865	0	NR	995	0	NR
480	217	NR	610	308	NR	740	9	NR	870	0	NR	1000	0	NR
485	182	NR	615	325	NR	745	7	NR	875	0	NR			

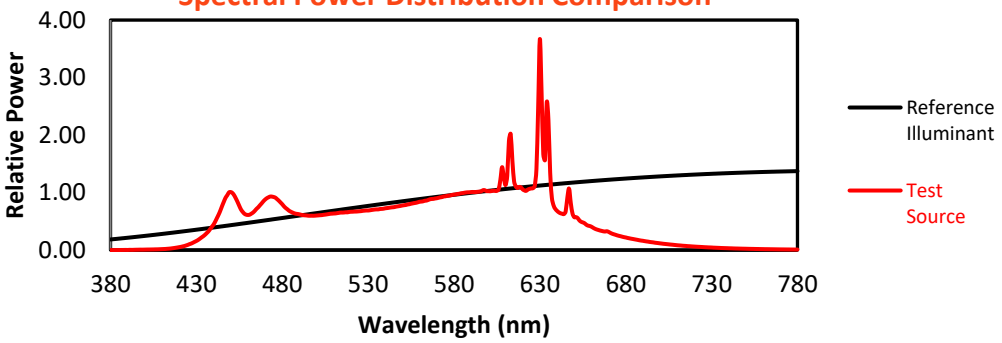
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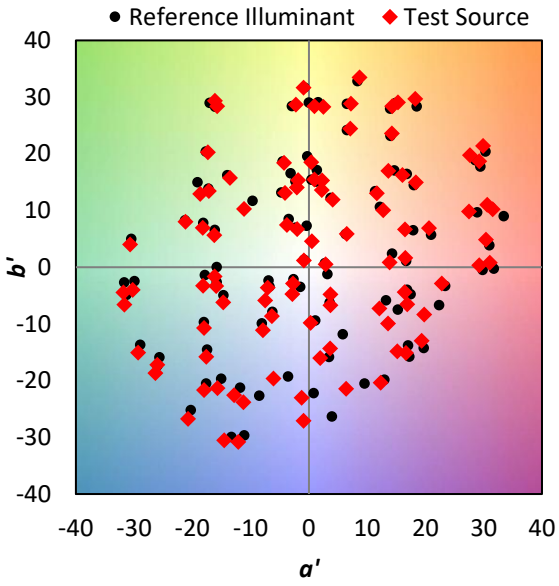
Summary

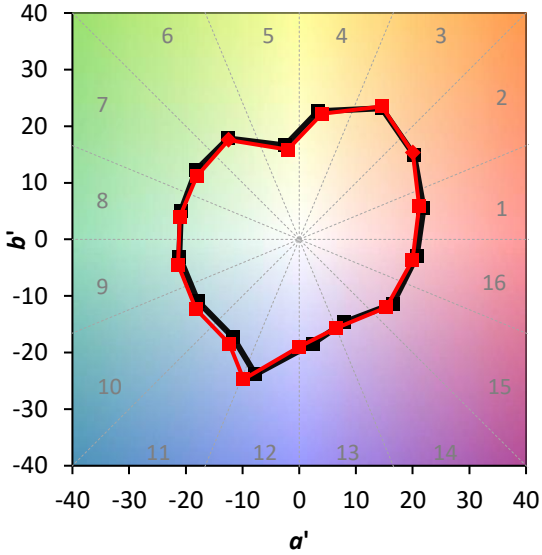
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R_g = 99.4
CIE R_a = 90.5
R_9 = 87.9

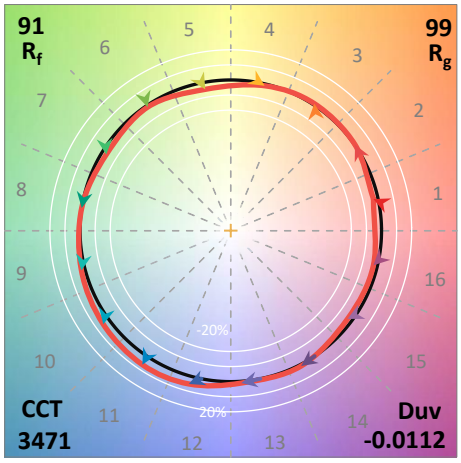
Spectral Power Distribution Comparison

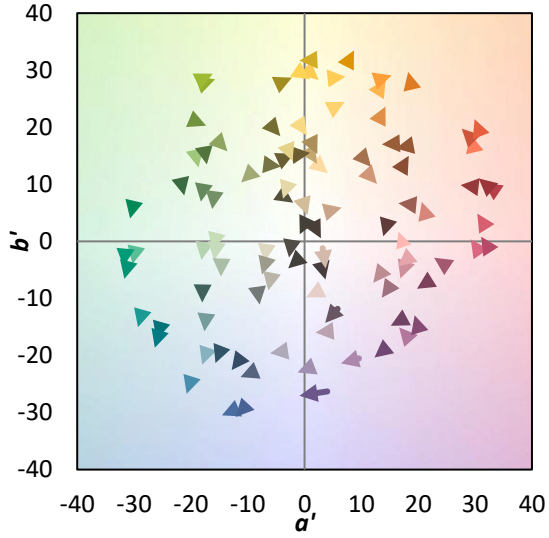


Color Vector Graphics







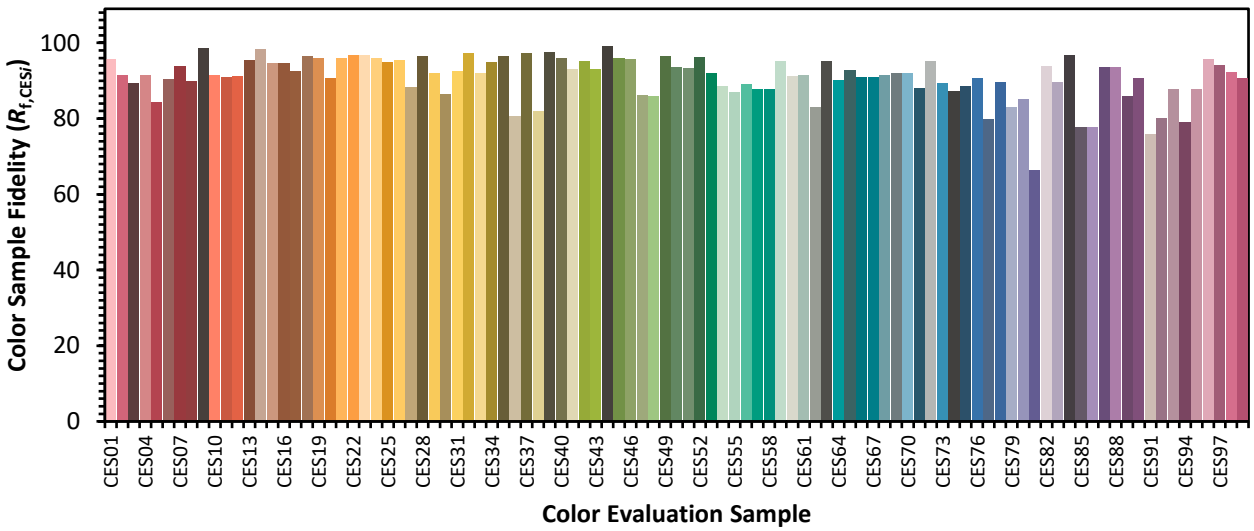


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Individual Sample Fidelity Index ($R_{f,i}$)

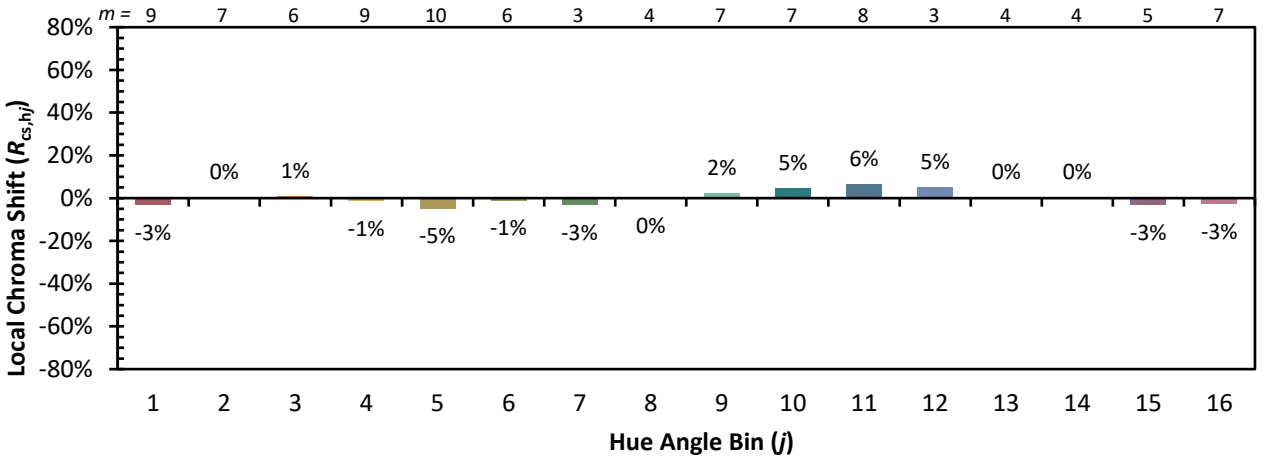
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CES02 = 63	CES27 = 88	CES52 = 96	CES77 = 80
CES03 = 32	CES28 = 96	CES53 = 92	CES78 = 90
CES04 = 70	CES29 = 92	CES54 = 88	CES79 = 83
CES05 = 50	CES30 = 86	CES55 = 87	CES80 = 85
CES06 = 51	CES31 = 92	CES56 = 89	CES81 = 66
CES07 = 43	CES32 = 97	CES57 = 88	CES82 = 94
CES08 = 42	CES33 = 92	CES58 = 88	CES83 = 90
CES09 = 29	CES34 = 95	CES59 = 95	CES84 = 97
CES10 = 76	CES35 = 97	CES60 = 91	CES85 = 78
CES11 = 58	CES36 = 81	CES61 = 92	CES86 = 78
CES12 = 65	CES37 = 97	CES62 = 83	CES87 = 93
CES13 = 44	CES38 = 82	CES63 = 95	CES88 = 93
CES14 = 74	CES39 = 97	CES64 = 90	CES89 = 86
CES15 = 72	CES40 = 96	CES65 = 93	CES90 = 91
CES16 = 48	CES41 = 93	CES66 = 91	CES91 = 76
CES17 = 49	CES42 = 95	CES67 = 91	CES92 = 80
CES18 = 57	CES43 = 93	CES68 = 92	CES93 = 88
CES19 = 71	CES44 = 99	CES69 = 92	CES94 = 79
CES20 = 67	CES45 = 96	CES70 = 92	CES95 = 88
CES21 = 86	CES46 = 96	CES71 = 88	CES96 = 96
CES22 = 78	CES47 = 86	CES72 = 95	CES97 = 94
CES23 = 91	CES48 = 86	CES73 = 89	CES98 = 92
CES24 = 90	CES49 = 97	CES74 = 87	CES99 = 91
CES25 = 71	CES50 = 94	CES75 = 89	

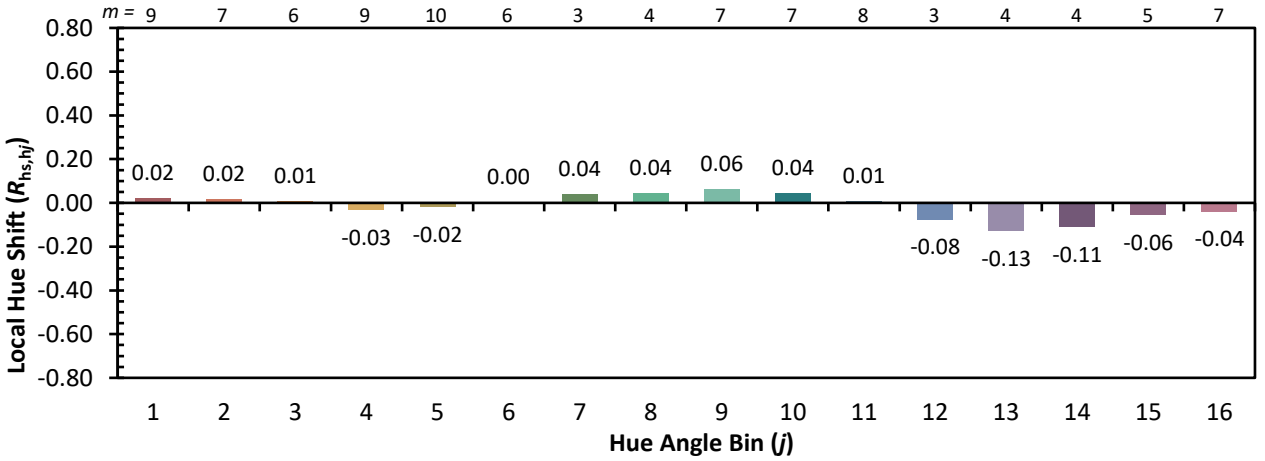


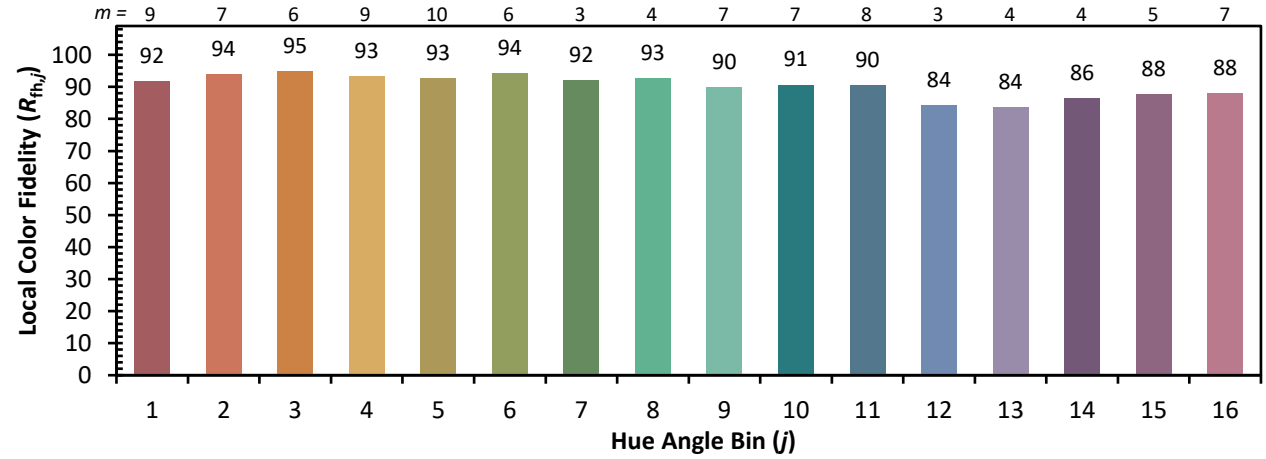
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Color Rendition by Hue-Angle Bin



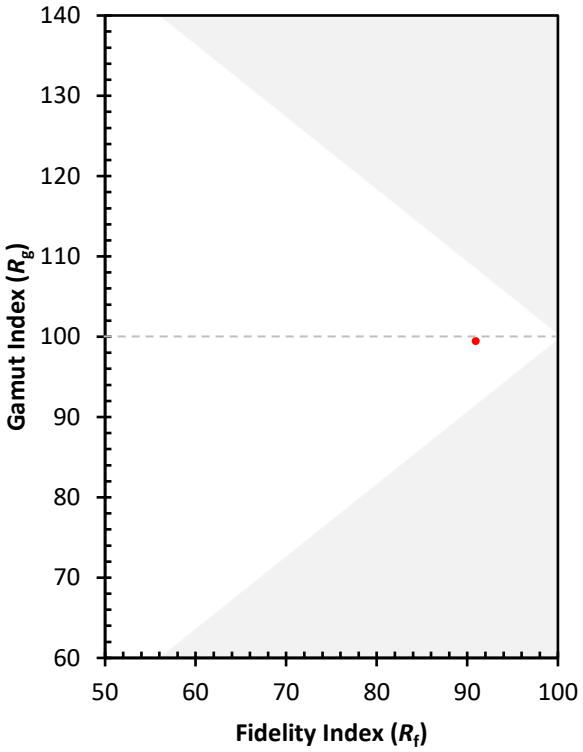


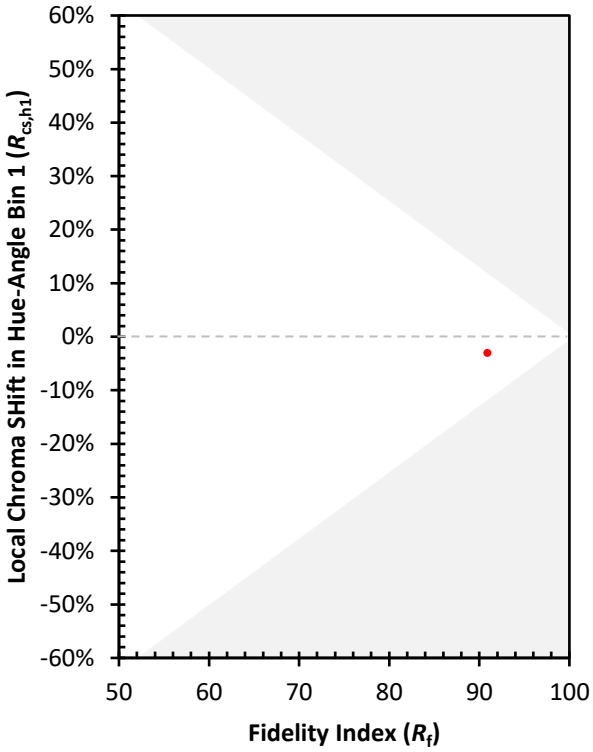


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Measure Comparisons





(END OF REPORT)