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: P1527763

Luminaire Tested: 24CGTX-40-B2750-W2A-2700K

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

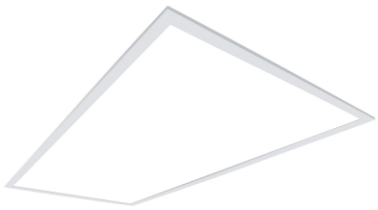
Test Information

Test Method:	LM-79-2019
Report Number:	P1527763
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	8/26/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	24CGTX-40-B2750-W2A-2700K
Description:	2X4 4000 LUMEN CGTX TROFFER WITH BIO UP LEDS AT 2700K CCT WITH FROSTED SMOOTH L
Light Source:	2700K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4011.1 lumens
Efficiency:	N/A
Efficacy:	114.0 lumens/watt
Spacing Criteria (0/90/45):	1.28 / 1.28 / 1.39
Luminous Opening:	Rectangular (W 1.81' x L: 3.83' x H: 0')
CIE Type:	Direct

Input Watts (W):	35.2
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

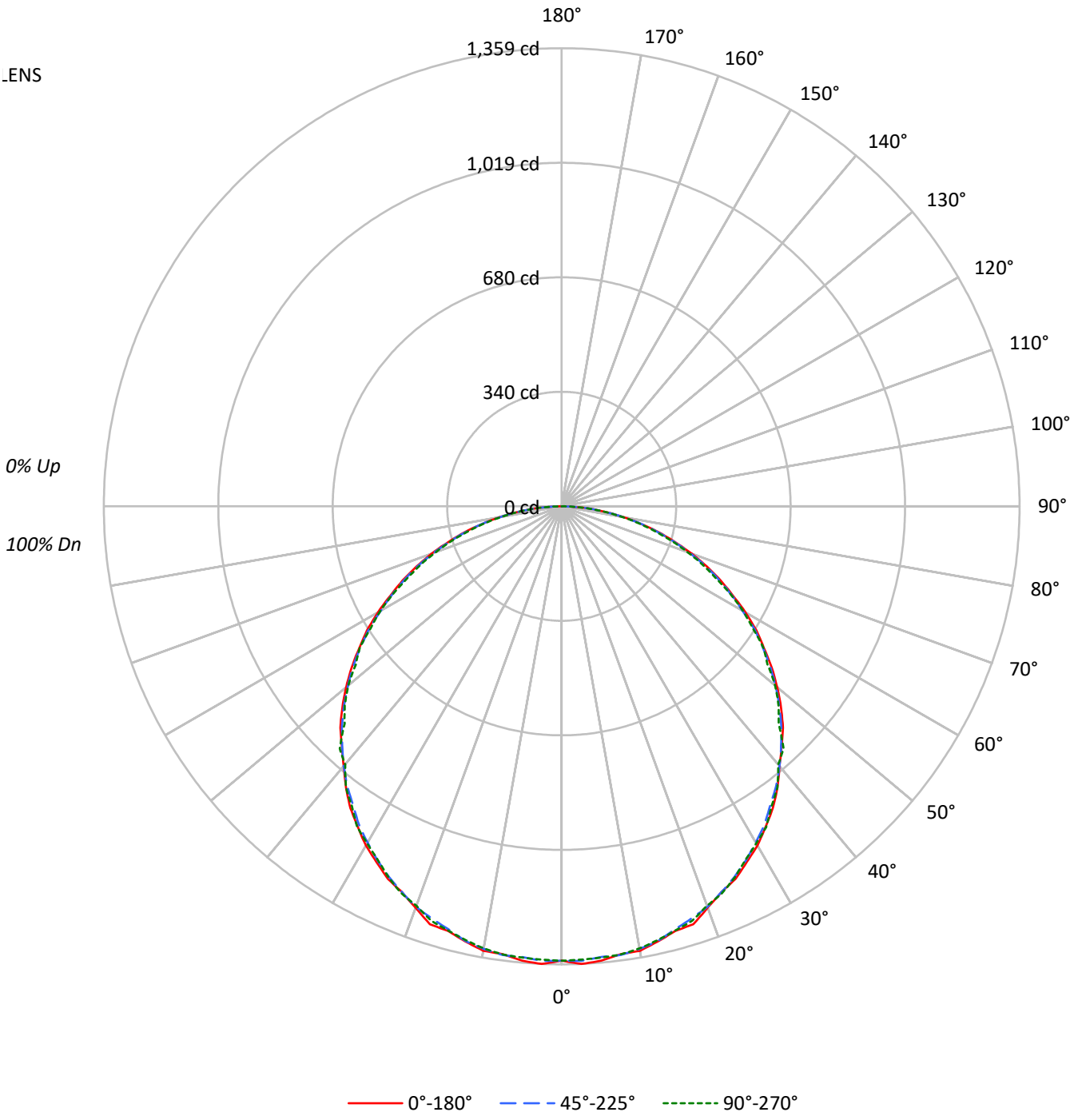


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Scaled Data Report

TEST NUMBER: P1527763
CATALOG NUMBER: 24CGTX-40-B2750-W2A-2700K

Luminous Intensity Polar Plot



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Scaled Data Report

TEST NUMBER: P1527763
CATALOG NUMBER: 24CGTX-40-B2750-W2A-2700K

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	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	39	51	44	39	50	44	39	37
7	64	50	42	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	36	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2088	2088	2088
5°	2104	2087	2090
10°	2106	2097	2095
15°	2091	2083	2090
20°	2089	2086	2079
25°	2085	2073	2077
30°	2079	2061	2066
35°	2067	2043	2054
40°	2035	2035	2022
45°	2035	2020	1996
50°	2012	1996	1993
55°	1980	1966	1974
60°	1952	1921	1927
65°	1910	1884	1851
70°	1862	1830	1803
75°	1790	1766	1718
80°	1677	1659	1633
85°	1529	1529	1511

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2035 cd/sqm

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Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1527763
CATALOG NUMBER: 24CGTX-40-B2750-W2A-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.0	3.2
10°-20°	367.6	9.2
20°-30°	559.1	13.9
30°-40°	678.5	16.9
40°-50°	711.0	17.7
50°-60°	651.3	16.2
60°-70°	508.8	12.7
70°-80°	310.7	7.7
80°-90°	96.2	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°	1054.7	26.3
0°-40°	1733.2	43.2
0°-60°	3095.5	77.2
0°-90°	4011.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4011.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1348	1348	1348	1348	1348	
5°	1353	1341	1342	1346	1344	128
15°	1304	1292	1299	1300	1303	370
25°	1220	1214	1213	1208	1215	561
35°	1093	1081	1080	1079	1086	682
45°	929	923	922	920	911	714
55°	733	729	728	727	731	657
65°	521	516	514	512	505	515
75°	299	298	295	290	287	315
85°	86	87	86	84	85	97
90°	0	0	0	0	0	

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Scaled Data Report

TEST NUMBER: P1527763
CATALOG NUMBER: 24CGTX-40-B2750-W2A-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1348*	1348	1348	1348	1348
2.5°	*1359*	*1348*	*1350*	*1341*	*1346*
5°	*1353*	1341	1342	1346	1344
7.5°	*1340*	1345	1343	1339	1341
10°	*1339*	1327	1333	1327	1332
12.5°	*1322*	1321	1321	1311	1318
15°	*1304*	1292	1299	1300	1303
17.5°	*1300*	1286	1282	1285	1289
20°	*1267*	1262	1265	1264	1261
22.5°	*1239*	1240	1239	1234	1243
25°	*1220*	1214	1213	1208	1215
27.5°	*1190*	1181	1184	1183	1182
30°	*1162*	1154	1152	1153	1155
32.5°	*1127*	1126	1120	1111	1129
35°	*1093*	1081	1080	1079	1086
37.5°	*1052*	1049	1046	1047	1052
40°	*1006*	1005	1006	1007	1000
42.5°	*966*	968	964	966	975
45°	*929*	923	922	920	911
47.5°	*883*	878	876	875	873
50°	*835*	829	828	825	827
52.5°	*786*	781	780	777	770
55°	*733*	729	728	727	731
57.5°	*685*	682	678	673	672
60°	*630*	626	620	620	622
62.5°	*572*	573	568	568	565
65°	*521*	516	514	512	505
67.5°	*466*	464	461	453	453
70°	*411*	406	404	402	398
72.5°	*353*	352	349	347	343
75°	*299*	298	295	290	287
77.5°	*243*	243	242	236	235
80°	*188*	189	186	182	183
82.5°	*137*	137	134	132	133
85°	*86*	87	86	84	85
87.5°	*40*	40	41	40	42
90°	*0*	0	0	0	0

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TEST NUMBER: P1527763
CATALOG NUMBER: 24CGTX-40-B2750-W2A-2700K

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	14.59	16.26	14.96	16.57	16.88	14.49	16.16	14.86	16.47	16.79
	3H	16.53	18.04	16.90	18.36	18.72	16.40	17.91	16.78	18.23	18.59
	4H	17.29	18.72	17.69	19.06	19.44	17.14	18.57	17.54	18.92	19.29
	6H	17.89	19.21	18.30	19.57	19.96	17.73	19.05	18.14	19.41	19.80
	8H	18.10	19.36	18.52	19.75	20.15	17.93	19.20	18.36	19.59	19.98
	12H	18.25	19.46	18.68	19.84	20.27	18.08	19.30	18.51	19.68	20.11
4H	2H	15.25	16.67	15.64	17.02	17.39	15.17	16.59	15.57	16.94	17.32
	3H	17.41	18.61	17.82	19.01	19.41	17.31	18.51	17.72	18.90	19.30
	4H	18.32	19.40	18.75	19.82	20.25	18.19	19.28	18.62	19.69	20.12
	6H	19.06	20.01	19.51	20.45	20.90	18.91	19.86	19.36	20.30	20.76
	8H	19.32	20.22	19.78	20.66	21.12	19.17	20.06	19.63	20.51	20.97
	12H	19.53	20.33	20.01	20.80	21.27	19.37	20.18	19.85	20.65	21.12
8H	4H	18.67	19.56	19.13	20.01	20.47	18.56	19.45	19.02	19.89	20.36
	6H	19.55	20.30	20.04	20.78	21.26	19.42	20.16	19.91	20.65	21.12
	8H	19.90	20.57	20.41	21.08	21.56	19.76	20.43	20.27	20.93	21.42
	12H	20.20	20.79	20.70	21.28	21.84	20.05	20.64	20.55	21.13	21.69
12H	4H	18.72	19.52	19.20	20.00	20.46	18.61	19.42	19.09	19.89	20.36
	6H	19.62	20.30	20.13	20.80	21.28	19.50	20.17	20.00	20.67	21.16
	8H	20.04	20.64	20.55	21.13	21.68	19.91	20.50	20.41	20.99	21.55

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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: SP1-2505-441-19-R2

Test Date: 06/13/2025

Luminaire Tested: 24CGTX-55-B2750-W2A-2700K

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

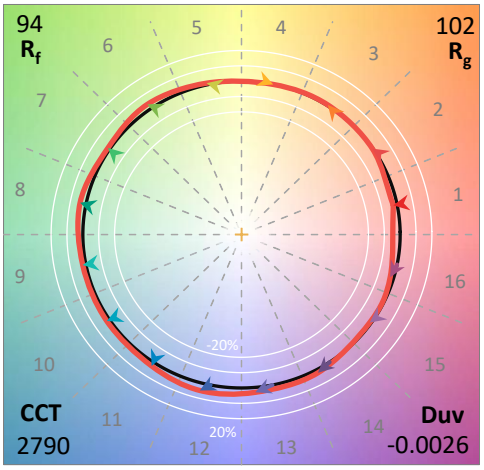
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2505-441-19-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-2700K**
Description:	*THIS IS A REVISION OF REPORT SP1-2504-441-19-R2 TO UPDATE THE CATALOG INFORMATION* 2X4 5500 LUMEN CGTX AT 9.0V

Spectral Parameters

CCT (K):	2790
CIE u':	0.2594
CIE v':	0.5218
Duv:	-0.0026
CIE x:	0.4483
CIE y:	0.4008
CIE z:	0.1509
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	584
Purity:	54.87344
Rf:	93.8
Rg:	102.2

CRI (Ra):	95.1				
R1:	96.3	R9:	82.2		
R2:	97.2	R10:	95.9		
R3:	99.0	R11:	90.1		
R4:	95.3	R12:	90.6		
R5:	95.9	R13:	96.2		
R6:	91.0	R14:	97.9		
R7:	93.9	R15:	99.0		
R8:	92.1				



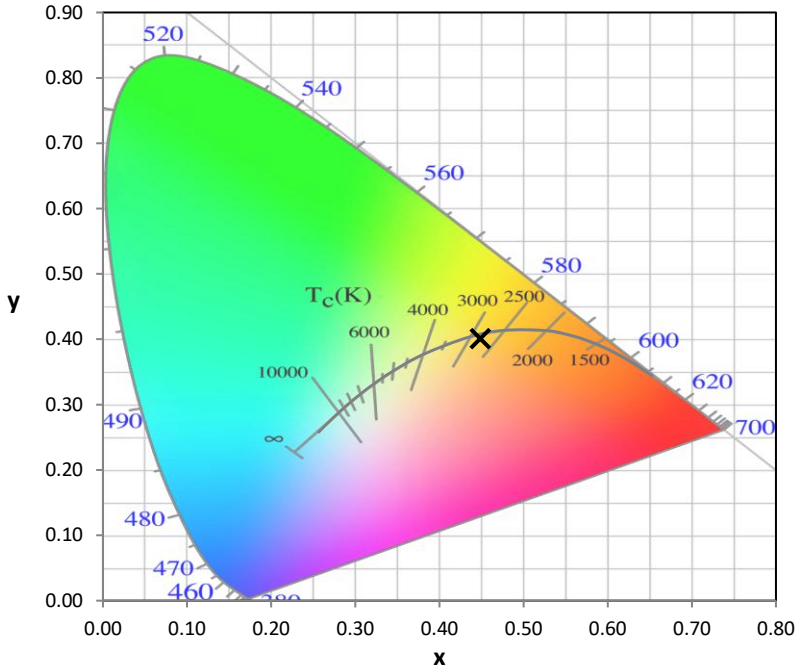
Test Conditions

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

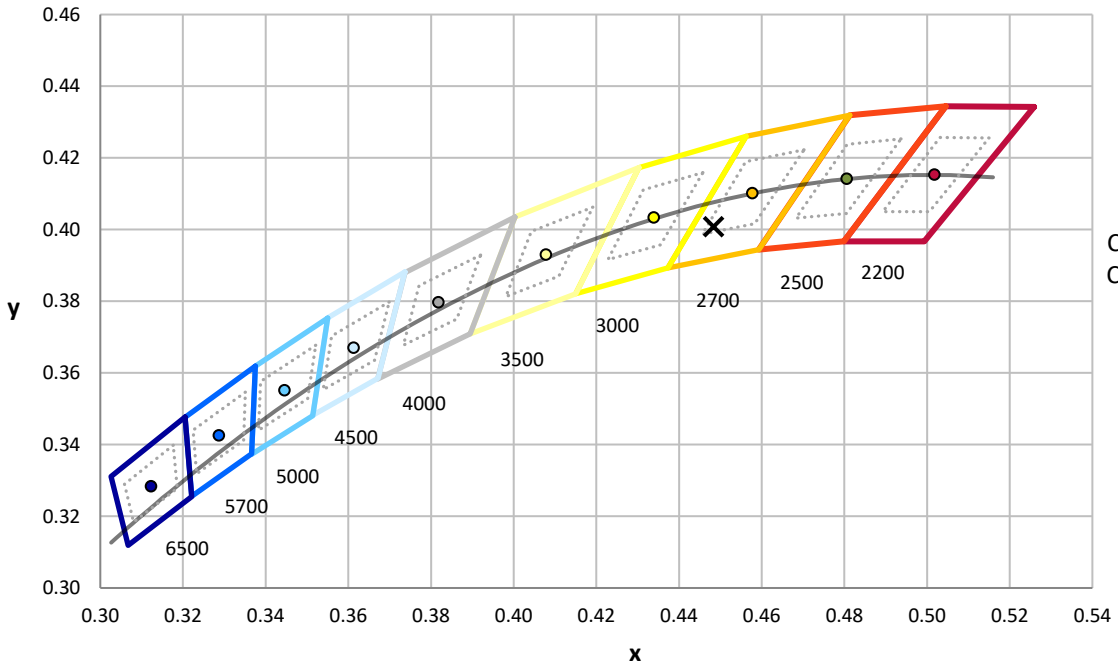
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2024	6/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

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CIE 1931 Chromaticity Diagram



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

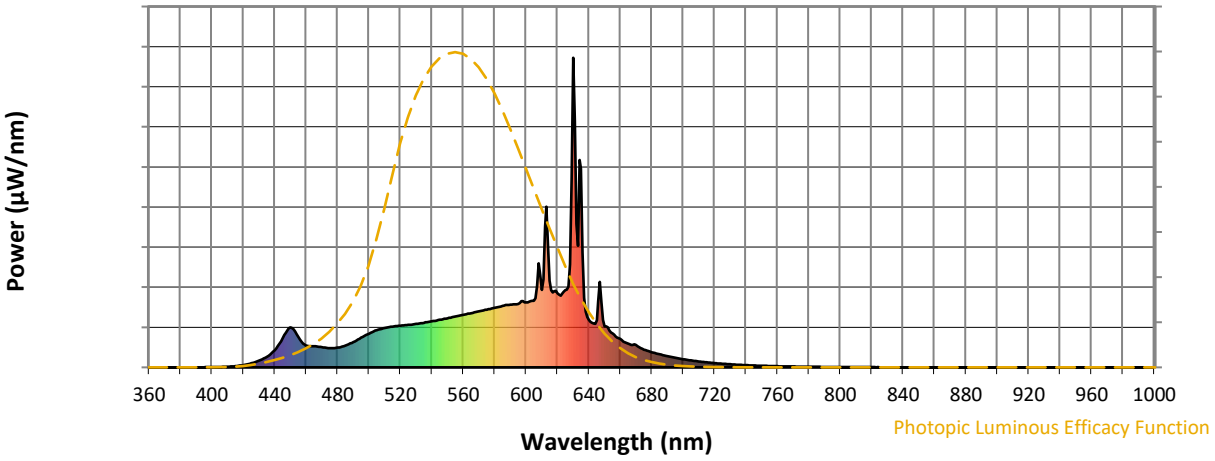


CCT = 2790K
CIE x = 0.4483
CIE y = 0.4008
Duv = -0.0026

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2505-441-19-R2

Photopic Flux vs. Wavelength

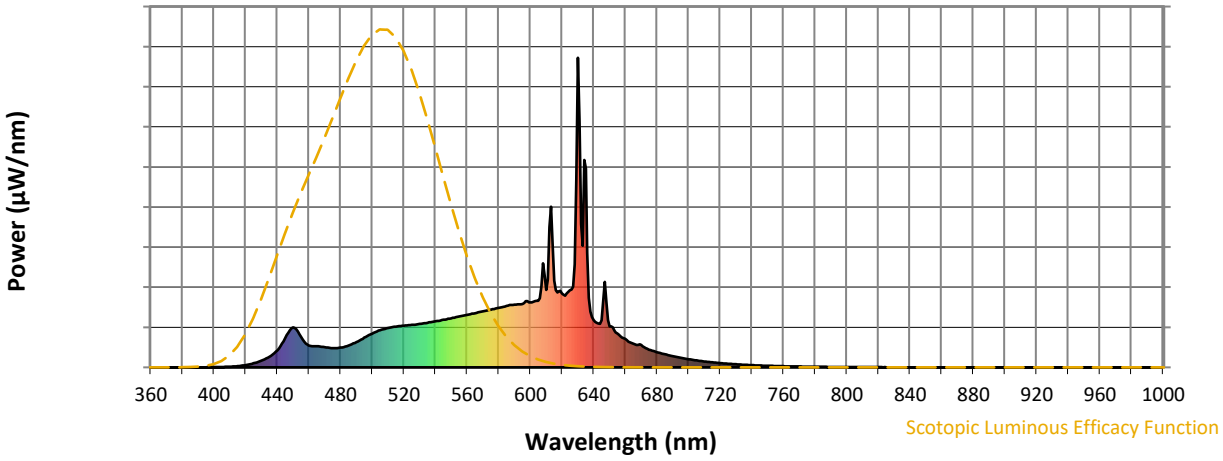


Photopic Lumens: NR

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	81	NR	620	239	NR	750	5	NR	880	0	NR
365	0	NR	495	96	NR	625	249	NR	755	4	NR	885	0	NR
370	0	NR	500	109	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	120	NR	635	641	NR	765	3	NR	895	0	NR
380	0	NR	510	127	NR	640	153	NR	770	3	NR	900	0	NR
385	0	NR	515	131	NR	645	152	NR	775	2	NR	905	0	NR
390	0	NR	520	135	NR	650	132	NR	780	2	NR	910	0	NR
395	0	NR	525	137	NR	655	109	NR	785	2	NR	915	0	NR
400	1	NR	530	140	NR	660	92	NR	790	1	NR	920	0	NR
405	1	NR	535	144	NR	665	76	NR	795	1	NR	925	0	NR
410	2	NR	540	149	NR	670	72	NR	800	1	NR	930	0	NR
415	4	NR	545	154	NR	675	57	NR	805	1	NR	935	0	NR
420	7	NR	550	158	NR	680	49	NR	810	1	NR	940	0	NR
425	13	NR	555	164	NR	685	42	NR	815	1	NR	945	0	NR
430	22	NR	560	170	NR	690	36	NR	820	1	NR	950	0	NR
435	34	NR	565	175	NR	695	31	NR	825	1	NR	955	0	NR
440	55	NR	570	181	NR	700	26	NR	830	0	NR	960	0	NR
445	94	NR	575	186	NR	705	22	NR	835	0	NR	965	0	NR
450	129	NR	580	192	NR	710	19	NR	840	0	NR	970	0	NR
455	99	NR	585	198	NR	715	16	NR	845	0	NR	975	0	NR
460	71	NR	590	203	NR	720	14	NR	850	0	NR	980	0	NR
465	68	NR	595	204	NR	725	12	NR	855	0	NR	985	0	NR
470	65	NR	600	210	NR	730	10	NR	860	0	NR	990	0	NR
475	62	NR	605	216	NR	735	8	NR	865	0	NR	995	0	NR
480	64	NR	610	250	NR	740	7	NR	870	0	NR	1000	0	NR
485	71	NR	615	281	NR	745	6	NR	875	0	NR			

REPORT NUMBER: SP1-2505-441-19-R2

Scotopic Flux vs. Wavelength

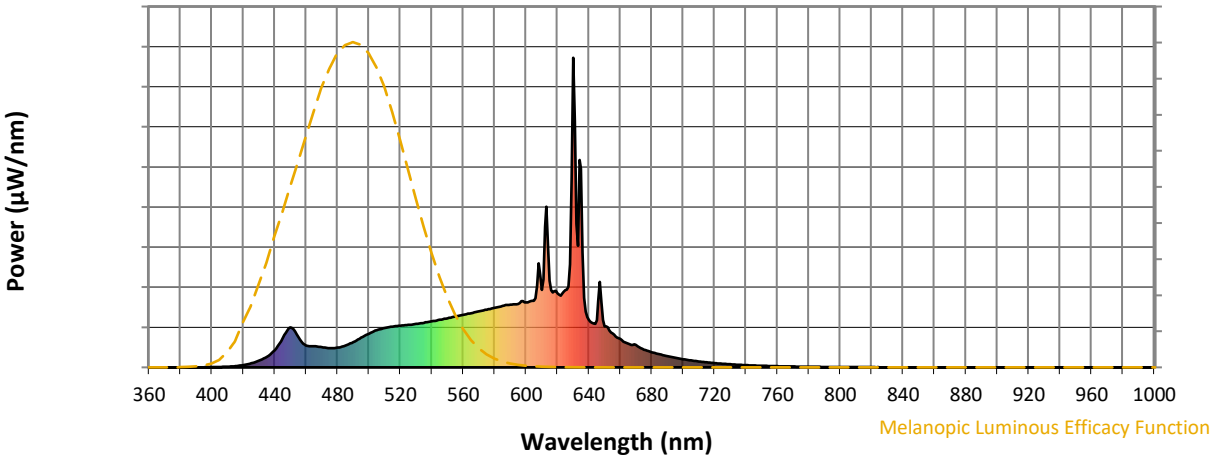


Scotopic Lumens: NR **S/P: 1.41**

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	81	NR	620	239	NR	750	5	NR	880	0	NR
365	0	NR	495	96	NR	625	249	NR	755	4	NR	885	0	NR
370	0	NR	500	109	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	120	NR	635	641	NR	765	3	NR	895	0	NR
380	0	NR	510	127	NR	640	153	NR	770	3	NR	900	0	NR
385	0	NR	515	131	NR	645	152	NR	775	2	NR	905	0	NR
390	0	NR	520	135	NR	650	132	NR	780	2	NR	910	0	NR
395	0	NR	525	137	NR	655	109	NR	785	2	NR	915	0	NR
400	1	NR	530	140	NR	660	92	NR	790	1	NR	920	0	NR
405	1	NR	535	144	NR	665	76	NR	795	1	NR	925	0	NR
410	2	NR	540	149	NR	670	72	NR	800	1	NR	930	0	NR
415	4	NR	545	154	NR	675	57	NR	805	1	NR	935	0	NR
420	7	NR	550	158	NR	680	49	NR	810	1	NR	940	0	NR
425	13	NR	555	164	NR	685	42	NR	815	1	NR	945	0	NR
430	22	NR	560	170	NR	690	36	NR	820	1	NR	950	0	NR
435	34	NR	565	175	NR	695	31	NR	825	1	NR	955	0	NR
440	55	NR	570	181	NR	700	26	NR	830	0	NR	960	0	NR
445	94	NR	575	186	NR	705	22	NR	835	0	NR	965	0	NR
450	129	NR	580	192	NR	710	19	NR	840	0	NR	970	0	NR
455	99	NR	585	198	NR	715	16	NR	845	0	NR	975	0	NR
460	71	NR	590	203	NR	720	14	NR	850	0	NR	980	0	NR
465	68	NR	595	204	NR	725	12	NR	855	0	NR	985	0	NR
470	65	NR	600	210	NR	730	10	NR	860	0	NR	990	0	NR
475	62	NR	605	216	NR	735	8	NR	865	0	NR	995	0	NR
480	64	NR	610	250	NR	740	7	NR	870	0	NR	1000	0	NR
485	71	NR	615	281	NR	745	6	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.77**

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	81	NR	620	239	NR	750	5	NR	880	0	NR
365	0	NR	495	96	NR	625	249	NR	755	4	NR	885	0	NR
370	0	NR	500	109	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	120	NR	635	641	NR	765	3	NR	895	0	NR
380	0	NR	510	127	NR	640	153	NR	770	3	NR	900	0	NR
385	0	NR	515	131	NR	645	152	NR	775	2	NR	905	0	NR
390	0	NR	520	135	NR	650	132	NR	780	2	NR	910	0	NR
395	0	NR	525	137	NR	655	109	NR	785	2	NR	915	0	NR
400	1	NR	530	140	NR	660	92	NR	790	1	NR	920	0	NR
405	1	NR	535	144	NR	665	76	NR	795	1	NR	925	0	NR
410	2	NR	540	149	NR	670	72	NR	800	1	NR	930	0	NR
415	4	NR	545	154	NR	675	57	NR	805	1	NR	935	0	NR
420	7	NR	550	158	NR	680	49	NR	810	1	NR	940	0	NR
425	13	NR	555	164	NR	685	42	NR	815	1	NR	945	0	NR
430	22	NR	560	170	NR	690	36	NR	820	1	NR	950	0	NR
435	34	NR	565	175	NR	695	31	NR	825	1	NR	955	0	NR
440	55	NR	570	181	NR	700	26	NR	830	0	NR	960	0	NR
445	94	NR	575	186	NR	705	22	NR	835	0	NR	965	0	NR
450	129	NR	580	192	NR	710	19	NR	840	0	NR	970	0	NR
455	99	NR	585	198	NR	715	16	NR	845	0	NR	975	0	NR
460	71	NR	590	203	NR	720	14	NR	850	0	NR	980	0	NR
465	68	NR	595	204	NR	725	12	NR	855	0	NR	985	0	NR
470	65	NR	600	210	NR	730	10	NR	860	0	NR	990	0	NR
475	62	NR	605	216	NR	735	8	NR	865	0	NR	995	0	NR
480	64	NR	610	250	NR	740	7	NR	870	0	NR	1000	0	NR
485	71	NR	615	281	NR	745	6	NR	875	0	NR			

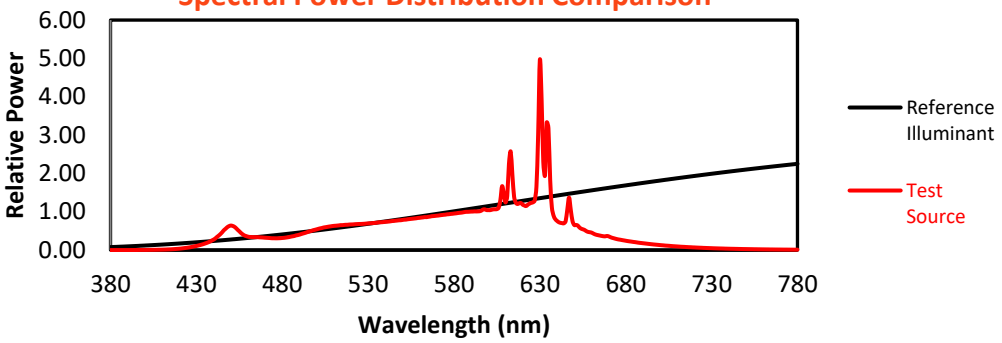
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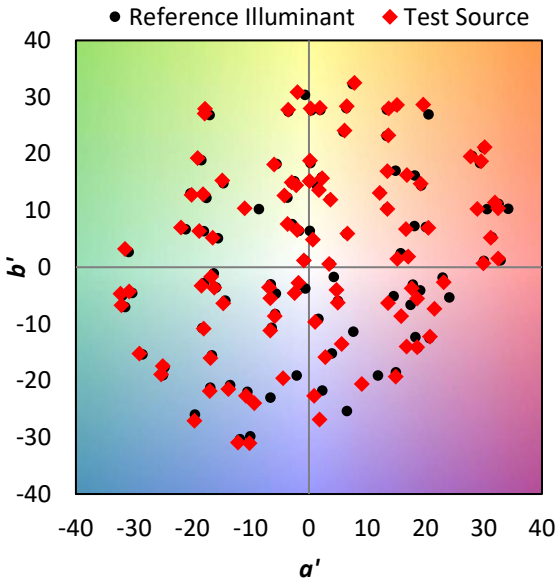
Summary

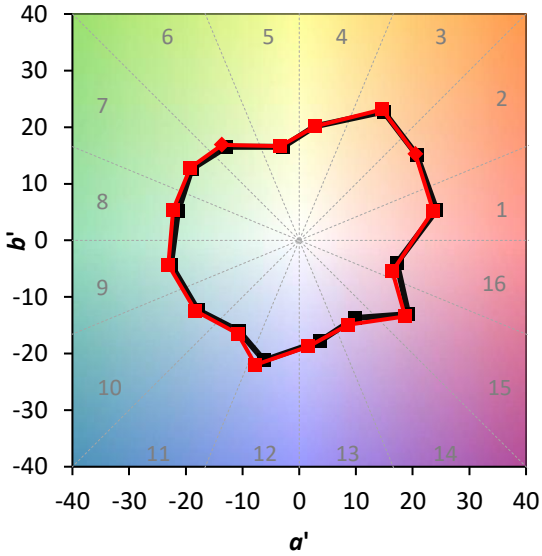
R_f = 93.8
R_g = 102.2
CIE R_a = 95.1
R_9 = 82.2

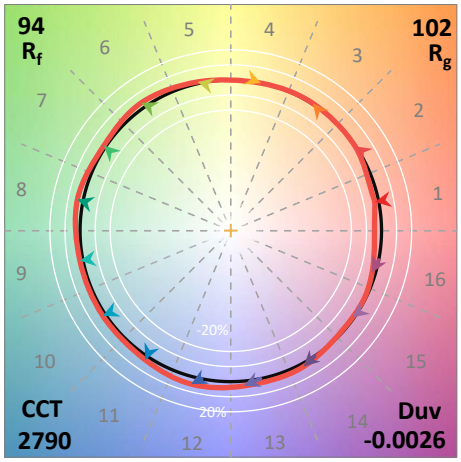
Spectral Power Distribution Comparison

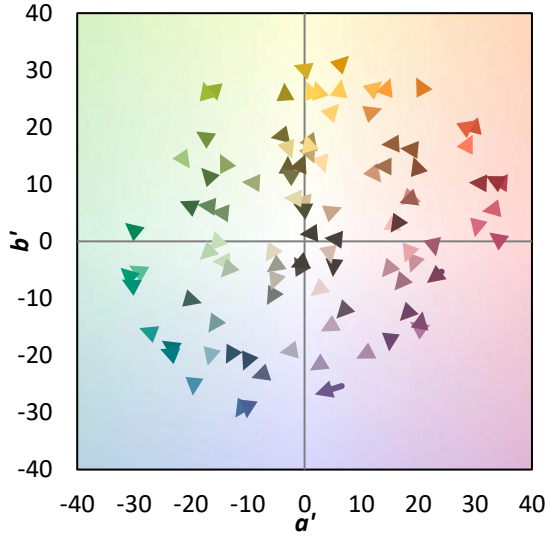


Color Vector Graphics







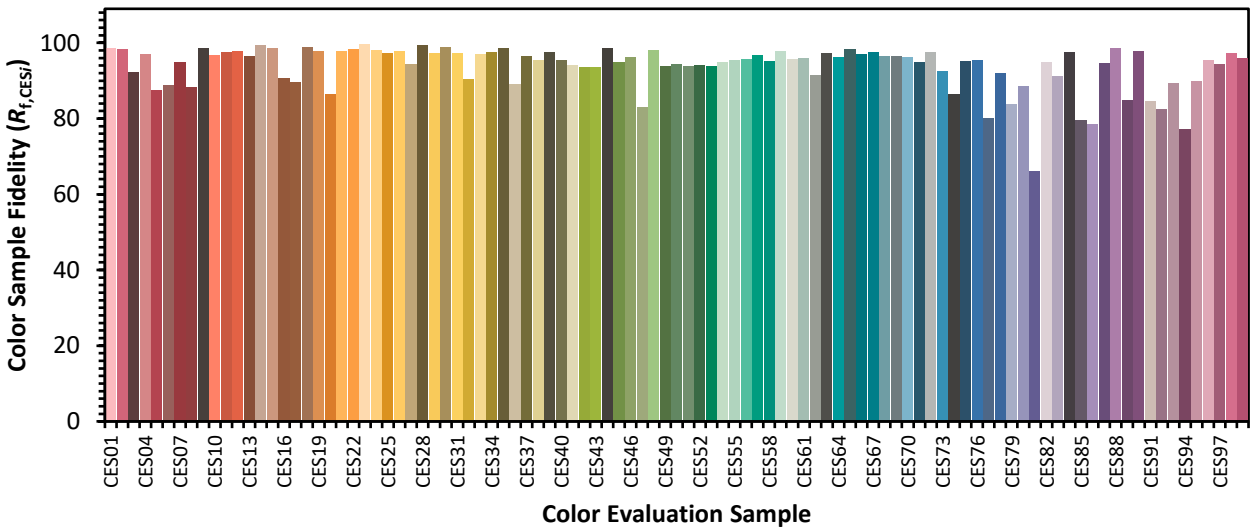


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Individual Sample Fidelity Index ($R_{f,i}$)

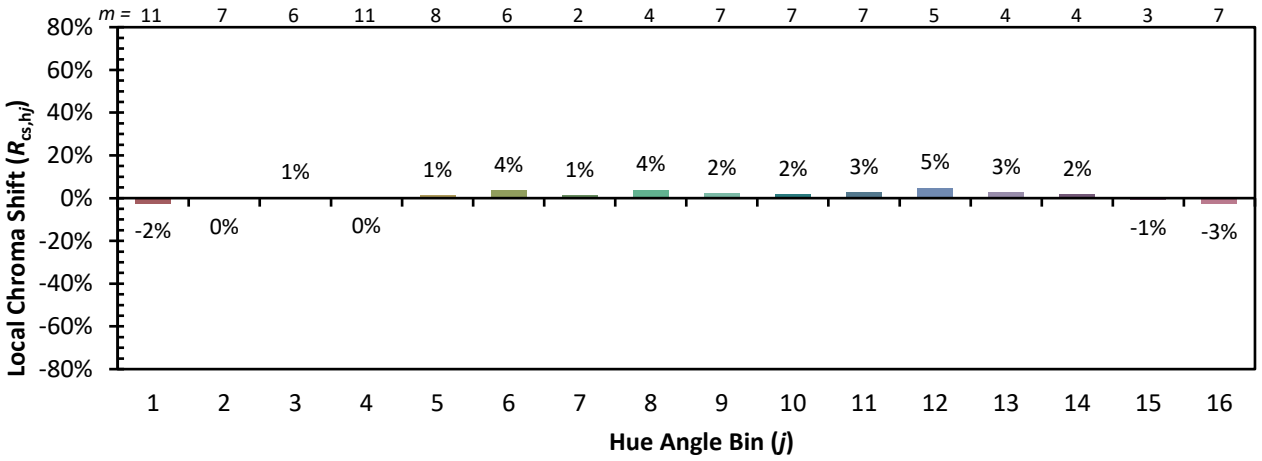
CES01 = 86	CES26 = 98	CES51 = 94	CES76 = 95
CES02 = 64	CES27 = 94	CES52 = 94	CES77 = 80
CES03 = 32	CES28 = 99	CES53 = 94	CES78 = 92
CES04 = 70	CES29 = 97	CES54 = 95	CES79 = 84
CES05 = 51	CES30 = 99	CES55 = 95	CES80 = 89
CES06 = 51	CES31 = 97	CES56 = 96	CES81 = 66
CES07 = 45	CES32 = 90	CES57 = 97	CES82 = 95
CES08 = 43	CES33 = 97	CES58 = 95	CES83 = 91
CES09 = 29	CES34 = 97	CES59 = 98	CES84 = 98
CES10 = 77	CES35 = 99	CES60 = 96	CES85 = 80
CES11 = 59	CES36 = 89	CES61 = 96	CES86 = 79
CES12 = 66	CES37 = 96	CES62 = 91	CES87 = 95
CES13 = 45	CES38 = 95	CES63 = 97	CES88 = 99
CES14 = 74	CES39 = 98	CES64 = 96	CES89 = 85
CES15 = 72	CES40 = 95	CES65 = 98	CES90 = 98
CES16 = 48	CES41 = 94	CES66 = 97	CES91 = 85
CES17 = 50	CES42 = 94	CES67 = 97	CES92 = 83
CES18 = 57	CES43 = 94	CES68 = 96	CES93 = 89
CES19 = 72	CES44 = 99	CES69 = 96	CES94 = 77
CES20 = 68	CES45 = 95	CES70 = 96	CES95 = 90
CES21 = 86	CES46 = 96	CES71 = 95	CES96 = 96
CES22 = 79	CES47 = 83	CES72 = 98	CES97 = 94
CES23 = 92	CES48 = 98	CES73 = 93	CES98 = 97
CES24 = 90	CES49 = 94	CES74 = 86	CES99 = 96
CES25 = 72	CES50 = 94	CES75 = 95	

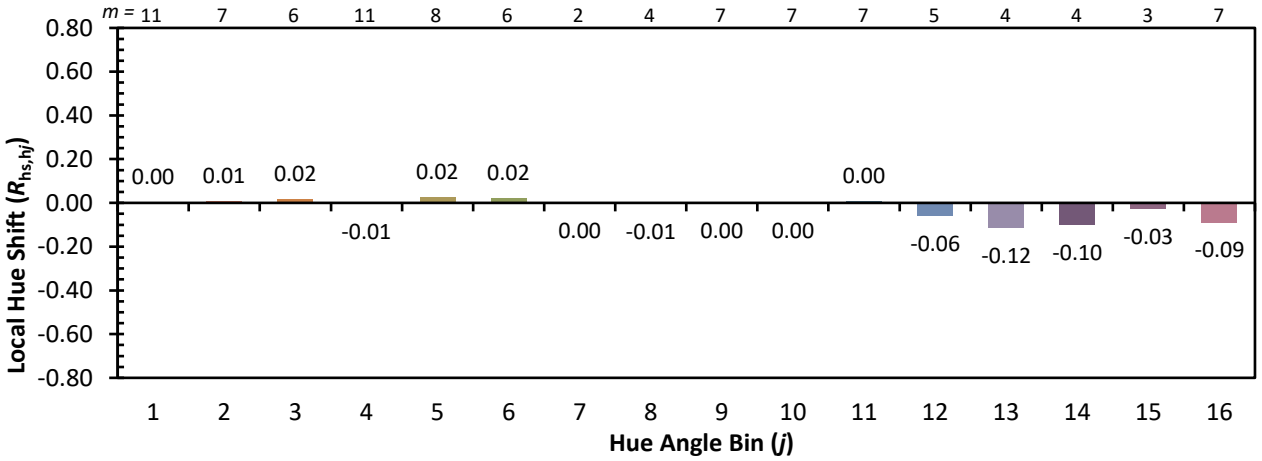


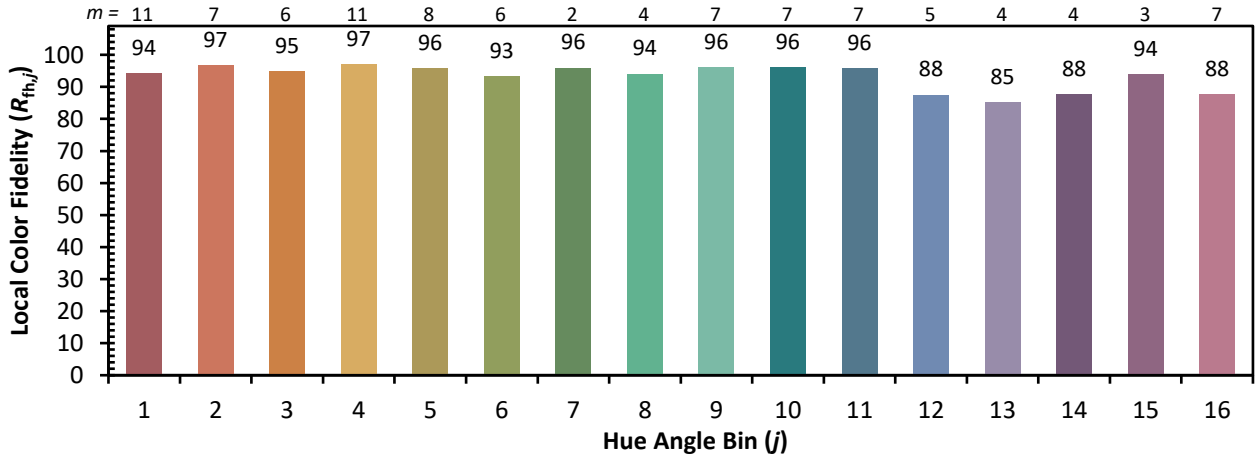
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Color Rendition by Hue-Angle Bin



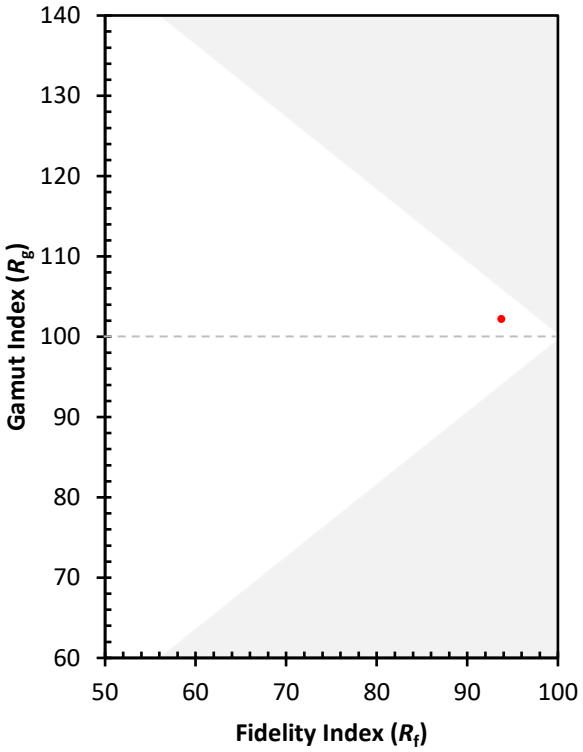


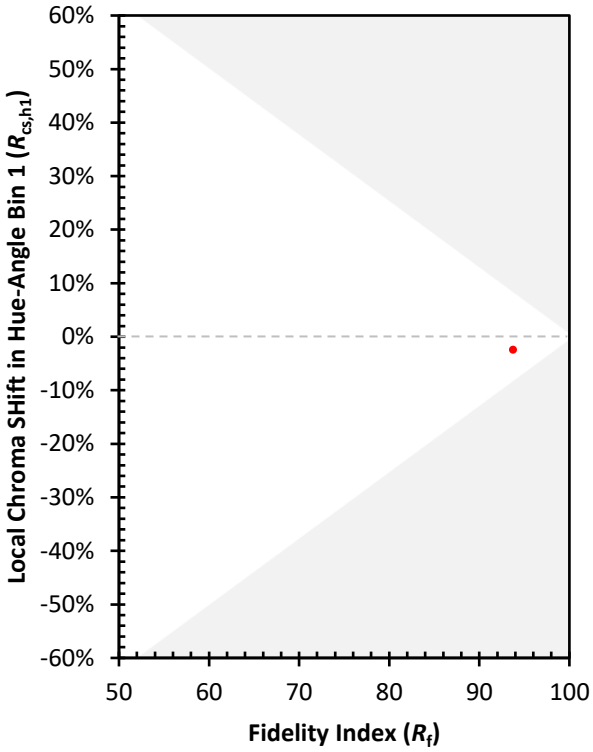


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Measure Comparisons





(END OF REPORT)