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: P1559286

Luminaire Tested: 24CGTX-35-B2750-W2D-2700K

Issue Date: 9/2/2026

Report Generated By 670265710 / DESKTOP-98SHLC4

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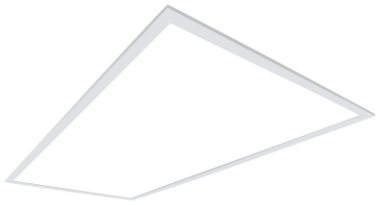
Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1559286
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	9/2/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	24CGTX-35-B2750-W2D-2700K
Description:	2X4 3500 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:	3533.4 lumens
Efficiency:	N/A
Efficacy:	114.3 lumens/watt
Spacing Criteria (0/90/45):	1.27 / 1.27 / 1.39
Luminous Opening:	Rectangular (W 1.81' x L: 3.83' x H: 0')
CIE Type:	Direct
Input Watts (W):	30.9
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

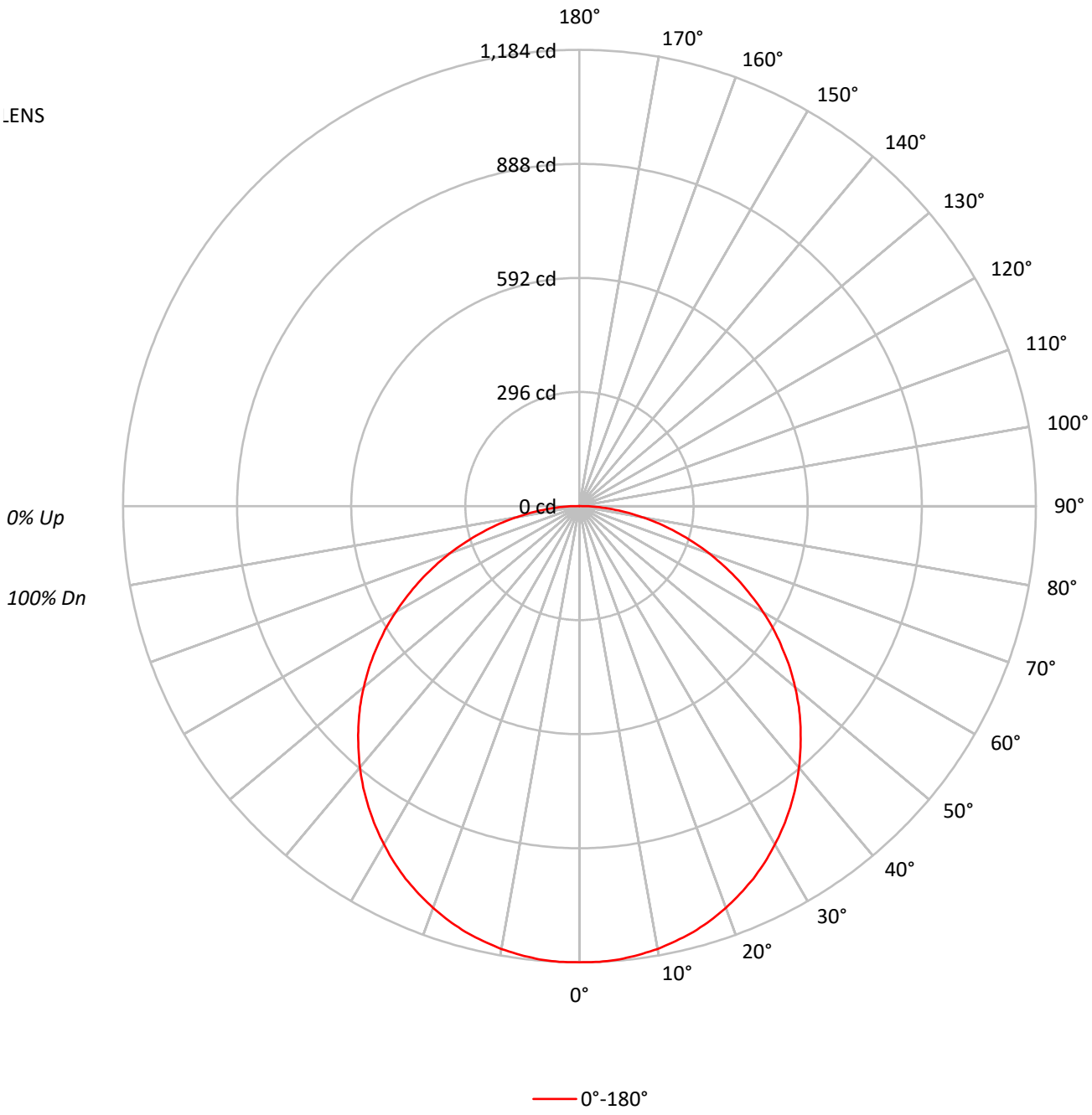


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Scaled Data Report

TEST NUMBER: P1559286
CATALOG NUMBER: 24CGTX-35-B2750-W2D-2700K

Luminous Intensity Polar Plot



LENS

0% Up

100% Dn

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CATALOG NUMBER: 24CGTX-35-B2750-W2D-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	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	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	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°
0°	1834
5°	1837
10°	1836
15°	1835
20°	1830
25°	1824
30°	1814
35°	1804
40°	1792
45°	1777
50°	1759
55°	1734
60°	1704
65°	1664
70°	1617
75°	1550
80°	1472
85°	1351

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 1777 cd/sqm

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TEST NUMBER: P1559286
CATALOG NUMBER: 24CGTX-35-B2750-W2D-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.3	3.2
10°-20°	322.8	9.1
20°-30°	491.7	13.9
30°-40°	596.8	16.9
40°-50°	625.7	17.7
50°-60°	574.4	16.3
60°-70°	449.1	12.7
70°-80°	274.3	7.8
80°-90°	86.4	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°	926.7	26.2
0°-40°	1523.5	43.1
0°-60°	2723.6	77.1
0°-90°	3533.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3533.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1184	
5°	1181	112
15°	1144	323
25°	1067	492
35°	954	597
45°	811	626
55°	642	574
65°	454	449
75°	259	274
85°	76	86
90°	0	

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TEST NUMBER: P1559286
CATALOG NUMBER: 24CGTX-35-B2750-W2D-2700K

CANDELA DISTRIBUTION (FULL):

	0°
0°	1184
2.5°	1184
5°	1181
7.5°	1175
10°	1167
12.5°	1156
15°	1144
17.5°	1128
20°	1110
22.5°	1089
25°	1067
27.5°	1042
30°	1014
32.5°	985
35°	954
37.5°	921
40°	886
42.5°	849
45°	811
47.5°	772
50°	730
52.5°	688
55°	642
57.5°	598
60°	550
62.5°	502
65°	454
67.5°	405
70°	357
72.5°	308
75°	259
77.5°	212
80°	165
82.5°	120
85°	76
87.5°	39
90°	0

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TEST NUMBER: P1559286
CATALOG NUMBER: 24CGTX-35-B2750-W2D-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	14.11	15.78	14.48	16.09	16.41	14.11	15.78	14.48	16.09	16.41
	3H	16.03	17.54	16.41	17.87	18.23	16.03	17.54	16.41	17.87	18.23
	4H	16.79	18.22	17.19	18.56	18.94	16.79	18.22	17.19	18.56	18.94
	6H	17.39	18.71	17.80	19.07	19.46	17.39	18.71	17.80	19.07	19.46
	8H	17.60	18.86	18.02	19.25	19.65	17.60	18.86	18.02	19.25	19.65
	12H	17.75	18.96	18.18	19.34	19.77	17.75	18.96	18.18	19.34	19.77
4H	2H	14.78	16.20	15.18	16.55	16.93	14.78	16.20	15.18	16.55	16.93
	3H	16.93	18.13	17.34	18.53	18.93	16.93	18.13	17.34	18.53	18.93
	4H	17.83	18.91	18.26	19.33	19.76	17.83	18.91	18.26	19.33	19.76
	6H	18.56	19.52	19.02	19.96	20.41	18.56	19.52	19.02	19.96	20.41
	8H	18.83	19.73	19.29	20.17	20.63	18.83	19.73	19.29	20.17	20.63
	12H	19.04	19.84	19.51	20.32	20.78	19.04	19.84	19.51	20.32	20.78
8H	4H	18.19	19.08	18.64	19.52	19.98	18.19	19.08	18.64	19.52	19.98
	6H	19.06	19.81	19.56	20.30	20.77	19.06	19.81	19.56	20.30	20.77
	8H	19.42	20.09	19.92	20.59	21.08	19.42	20.09	19.92	20.59	21.08
	12H	19.71	20.31	20.22	20.80	21.35	19.71	20.31	20.22	20.80	21.35
12H	4H	18.23	19.04	18.71	19.51	19.98	18.23	19.04	18.71	19.51	19.98
	6H	19.14	19.81	19.65	20.32	20.80	19.14	19.81	19.65	20.32	20.80
	8H	19.56	20.16	20.07	20.65	21.20	19.56	20.16	20.07	20.65	21.20

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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: SP1-2505-441-28-R2

Test Date: 07/10/2025

Luminaire Tested: 24CGTX-45-B2750-W2D-2700K

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

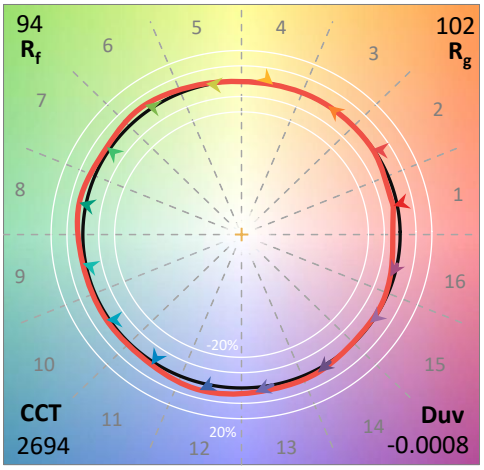
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Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2505-441-28-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:	**24CGTX-45-B2750-W2D-2700K**
Description:	*THIS IS A REVISION OF REPORT SP1-2504-441-28-R2 TO UPDATE THE CATALOG INFORMATION* 2X4 4500 LUMEN CGTX. Using WaveLinx PRO F1 sensor.

Spectral Parameters

CCT (K):	2694	CRI (Ra):	95.4		
CIE u':	0.2630	R1:	96.8	R9:	80.8
CIE v':	0.5264	R2:	98.3	R10:	98.3
Duv:	-0.0008	R3:	97.9	R11:	89.1
CIE x:	0.4590	R4:	94.6	R12:	93.4
CIE y:	0.4084	R5:	96.4	R13:	96.9
CIE z:	0.1326	R6:	92.3	R14:	97.1
Peak Wavelength (nm):	630	R7:	94.8	R15:	98.2
Dominant Wavelength (nm):	584	R8:	92.1		
Purity:	60.36523				
Rf:	93.8				
Rg:	102				



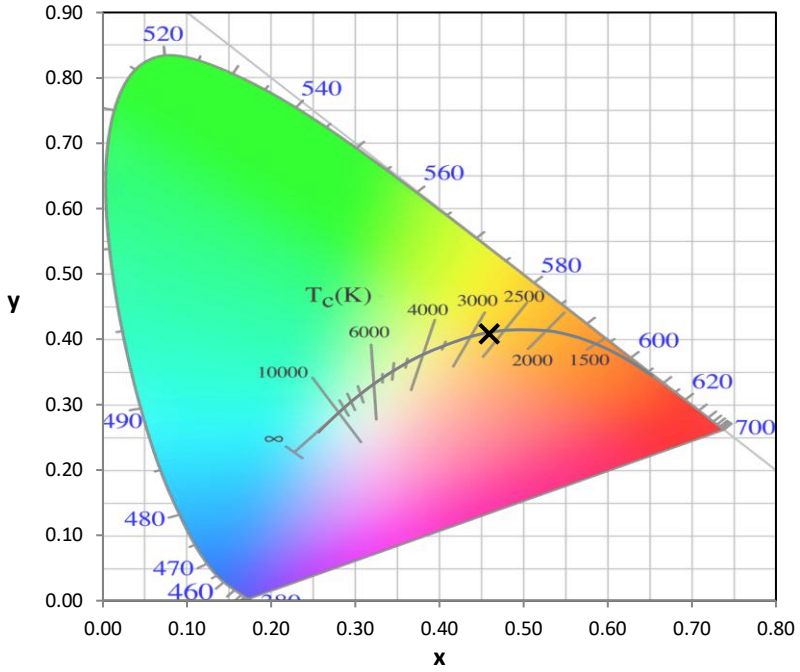
Test Conditions

Stabilization Time:	24M
Operation Time:	1H 24M
Sphere Temperature (°C):	24.0

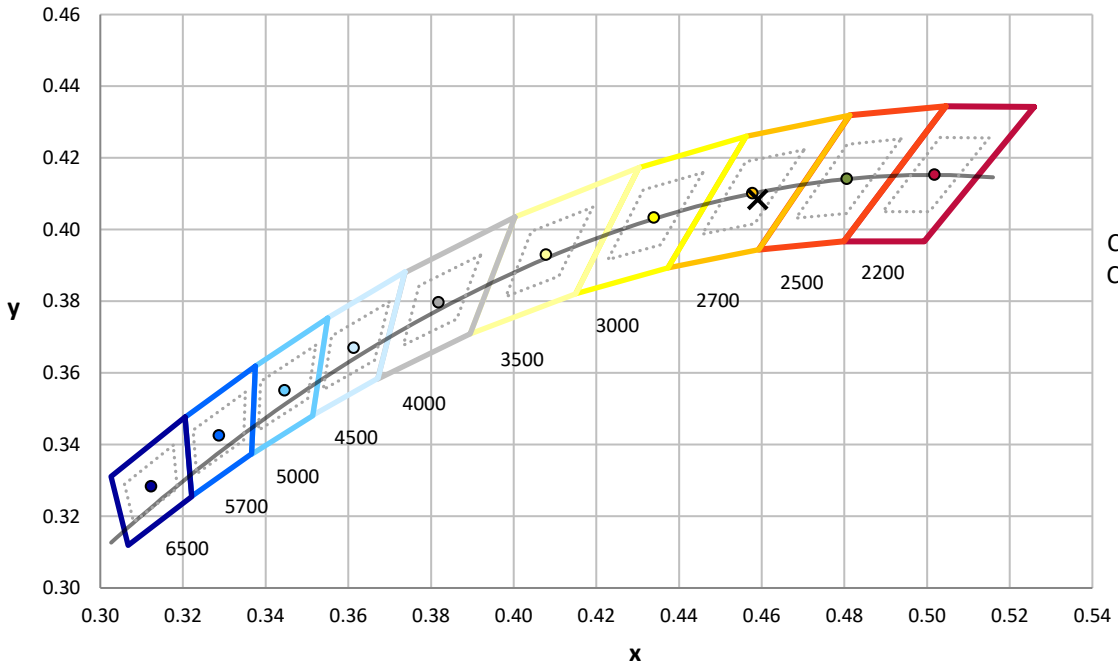
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2505-441-28-R2

CIE 1931 Chromaticity Diagram



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

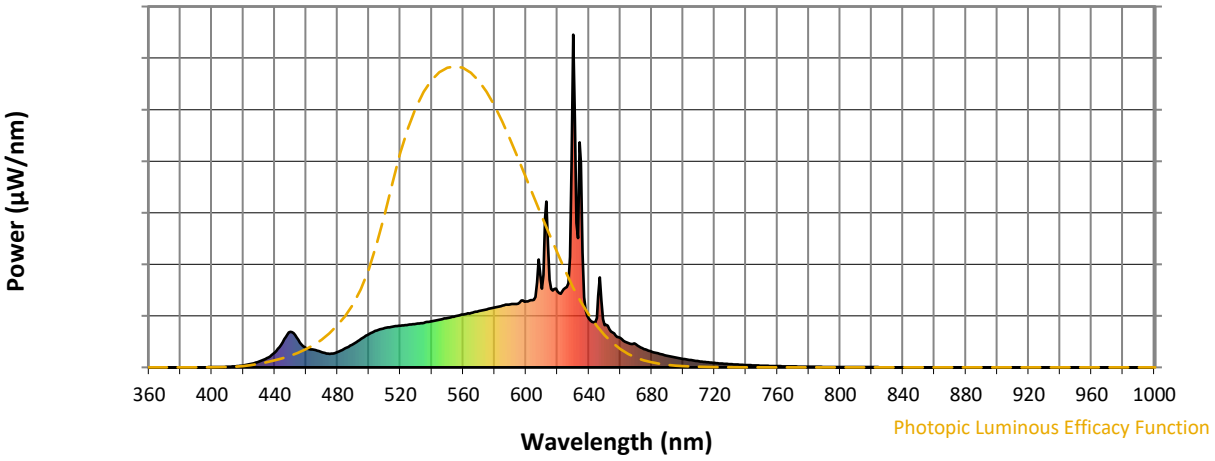


CCT = 2694K
CIE x = 0.4590
CIE y = 0.4084
Duv = -0.0008

Point lies inside the ANSI 2700K 4-step quadrangle

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Photopic Flux vs. Wavelength

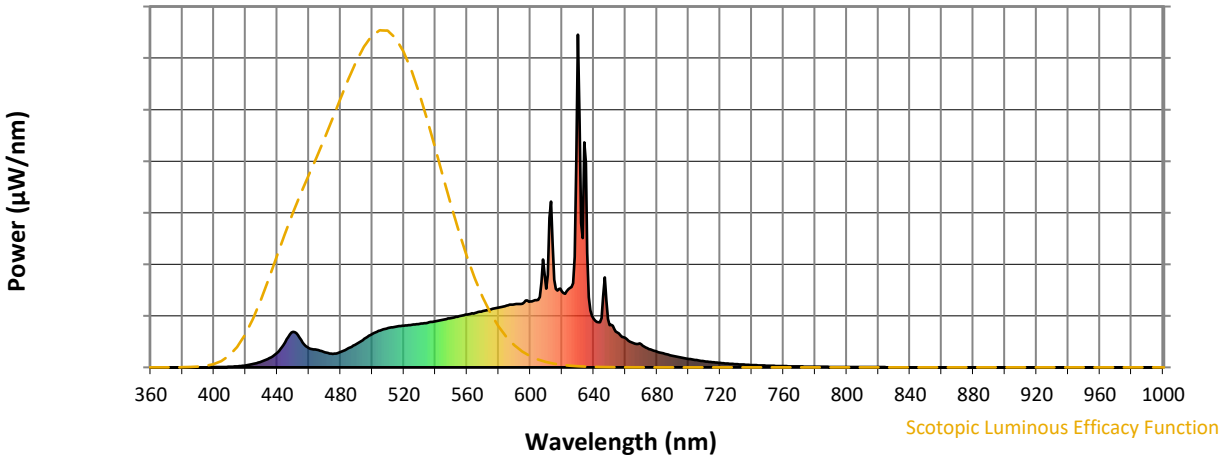


Photopic Lumens: NR

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	70	NR	620	228	NR	750	5	NR	880	0	NR
365	0	NR	495	86	NR	625	239	NR	755	4	NR	885	0	NR
370	0	NR	500	100	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	111	NR	635	614	NR	765	3	NR	895	0	NR
380	0	NR	510	118	NR	640	147	NR	770	3	NR	900	0	NR
385	0	NR	515	122	NR	645	148	NR	775	2	NR	905	0	NR
390	0	NR	520	126	NR	650	127	NR	780	2	NR	910	0	NR
395	0	NR	525	128	NR	655	105	NR	785	2	NR	915	0	NR
400	1	NR	530	130	NR	660	88	NR	790	1	NR	920	0	NR
405	1	NR	535	134	NR	665	73	NR	795	1	NR	925	0	NR
410	2	NR	540	139	NR	670	70	NR	800	1	NR	930	0	NR
415	3	NR	545	143	NR	675	55	NR	805	1	NR	935	0	NR
420	6	NR	550	148	NR	680	47	NR	810	1	NR	940	0	NR
425	10	NR	555	154	NR	685	41	NR	815	1	NR	945	0	NR
430	18	NR	560	159	NR	690	35	NR	820	1	NR	950	0	NR
435	28	NR	565	164	NR	695	30	NR	825	1	NR	955	0	NR
440	44	NR	570	169	NR	700	25	NR	830	0	NR	960	0	NR
445	75	NR	575	175	NR	705	22	NR	835	0	NR	965	0	NR
450	107	NR	580	179	NR	710	18	NR	840	0	NR	970	0	NR
455	82	NR	585	186	NR	715	16	NR	845	0	NR	975	0	NR
460	58	NR	590	190	NR	720	13	NR	850	0	NR	980	0	NR
465	53	NR	595	192	NR	725	11	NR	855	0	NR	985	0	NR
470	45	NR	600	198	NR	730	10	NR	860	0	NR	990	0	NR
475	41	NR	605	203	NR	735	8	NR	865	0	NR	995	0	NR
480	46	NR	610	237	NR	740	7	NR	870	0	NR	1000	0	NR
485	57	NR	615	264	NR	745	6	NR	875	0	NR			

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Scotopic Flux vs. Wavelength

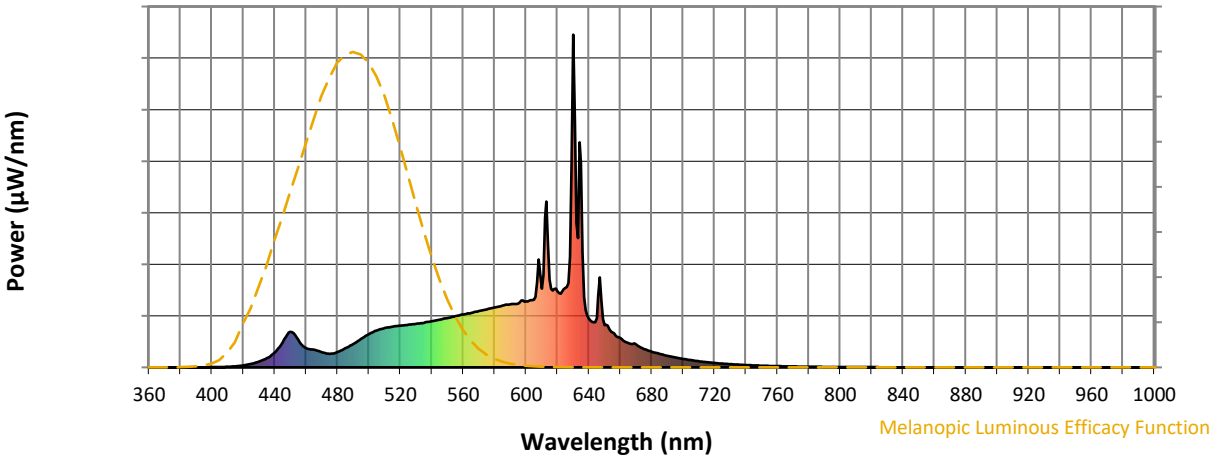


Scotopic Lumens: NR **S/P: 1.34**

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	70	NR	620	228	NR	750	5	NR	880	0	NR
365	0	NR	495	86	NR	625	239	NR	755	4	NR	885	0	NR
370	0	NR	500	100	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	111	NR	635	614	NR	765	3	NR	895	0	NR
380	0	NR	510	118	NR	640	147	NR	770	3	NR	900	0	NR
385	0	NR	515	122	NR	645	148	NR	775	2	NR	905	0	NR
390	0	NR	520	126	NR	650	127	NR	780	2	NR	910	0	NR
395	0	NR	525	128	NR	655	105	NR	785	2	NR	915	0	NR
400	1	NR	530	130	NR	660	88	NR	790	1	NR	920	0	NR
405	1	NR	535	134	NR	665	73	NR	795	1	NR	925	0	NR
410	2	NR	540	139	NR	670	70	NR	800	1	NR	930	0	NR
415	3	NR	545	143	NR	675	55	NR	805	1	NR	935	0	NR
420	6	NR	550	148	NR	680	47	NR	810	1	NR	940	0	NR
425	10	NR	555	154	NR	685	41	NR	815	1	NR	945	0	NR
430	18	NR	560	159	NR	690	35	NR	820	1	NR	950	0	NR
435	28	NR	565	164	NR	695	30	NR	825	1	NR	955	0	NR
440	44	NR	570	169	NR	700	25	NR	830	0	NR	960	0	NR
445	75	NR	575	175	NR	705	22	NR	835	0	NR	965	0	NR
450	107	NR	580	179	NR	710	18	NR	840	0	NR	970	0	NR
455	82	NR	585	186	NR	715	16	NR	845	0	NR	975	0	NR
460	58	NR	590	190	NR	720	13	NR	850	0	NR	980	0	NR
465	53	NR	595	192	NR	725	11	NR	855	0	NR	985	0	NR
470	45	NR	600	198	NR	730	10	NR	860	0	NR	990	0	NR
475	41	NR	605	203	NR	735	8	NR	865	0	NR	995	0	NR
480	46	NR	610	237	NR	740	7	NR	870	0	NR	1000	0	NR
485	57	NR	615	264	NR	745	6	NR	875	0	NR			

REPORT NUMBER: SP1-2505-441-28-R2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.58**

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	70	NR	620	228	NR	750	5	NR	880	0	NR
365	0	NR	495	86	NR	625	239	NR	755	4	NR	885	0	NR
370	0	NR	500	100	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	111	NR	635	614	NR	765	3	NR	895	0	NR
380	0	NR	510	118	NR	640	147	NR	770	3	NR	900	0	NR
385	0	NR	515	122	NR	645	148	NR	775	2	NR	905	0	NR
390	0	NR	520	126	NR	650	127	NR	780	2	NR	910	0	NR
395	0	NR	525	128	NR	655	105	NR	785	2	NR	915	0	NR
400	1	NR	530	130	NR	660	88	NR	790	1	NR	920	0	NR
405	1	NR	535	134	NR	665	73	NR	795	1	NR	925	0	NR
410	2	NR	540	139	NR	670	70	NR	800	1	NR	930	0	NR
415	3	NR	545	143	NR	675	55	NR	805	1	NR	935	0	NR
420	6	NR	550	148	NR	680	47	NR	810	1	NR	940	0	NR
425	10	NR	555	154	NR	685	41	NR	815	1	NR	945	0	NR
430	18	NR	560	159	NR	690	35	NR	820	1	NR	950	0	NR
435	28	NR	565	164	NR	695	30	NR	825	1	NR	955	0	NR
440	44	NR	570	169	NR	700	25	NR	830	0	NR	960	0	NR
445	75	NR	575	175	NR	705	22	NR	835	0	NR	965	0	NR
450	107	NR	580	179	NR	710	18	NR	840	0	NR	970	0	NR
455	82	NR	585	186	NR	715	16	NR	845	0	NR	975	0	NR
460	58	NR	590	190	NR	720	13	NR	850	0	NR	980	0	NR
465	53	NR	595	192	NR	725	11	NR	855	0	NR	985	0	NR
470	45	NR	600	198	NR	730	10	NR	860	0	NR	990	0	NR
475	41	NR	605	203	NR	735	8	NR	865	0	NR	995	0	NR
480	46	NR	610	237	NR	740	7	NR	870	0	NR	1000	0	NR
485	57	NR	615	264	NR	745	6	NR	875	0	NR			

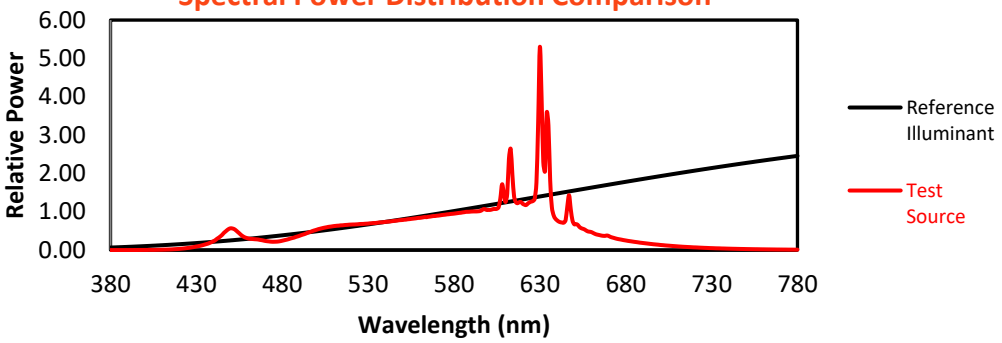
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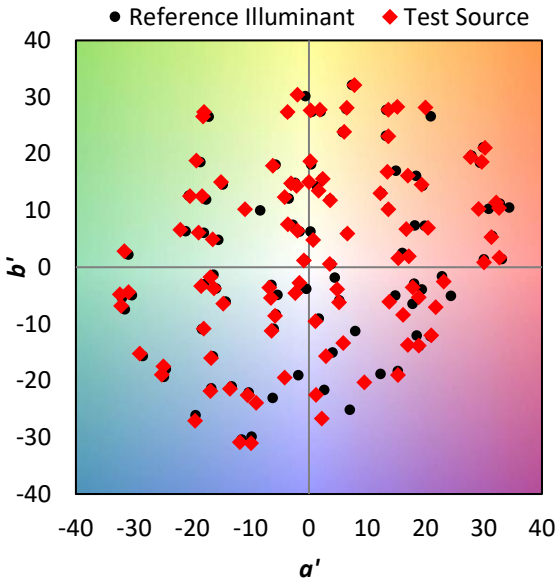
Summary

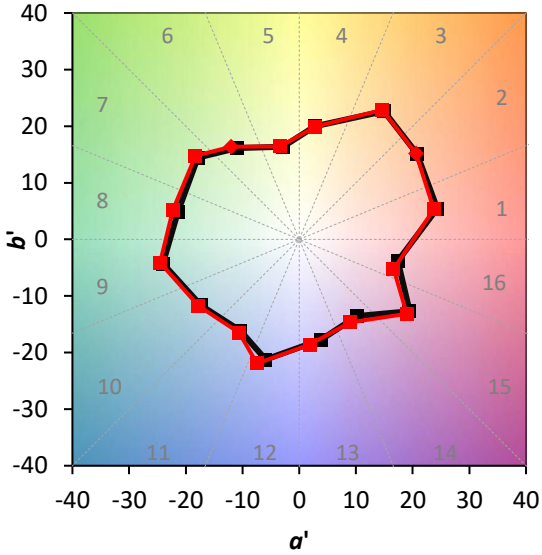
R_f = 93.8
R_g = 102
CIE R_a = 95.4
R_9 = 80.8

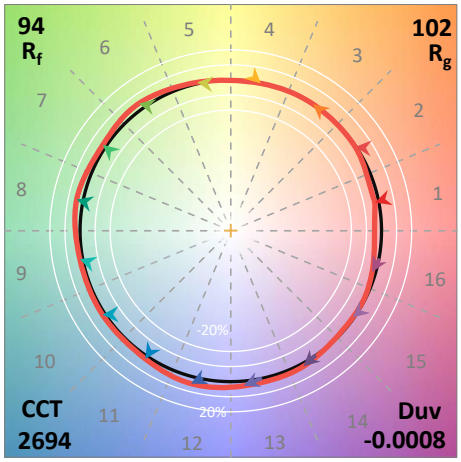
Spectral Power Distribution Comparison

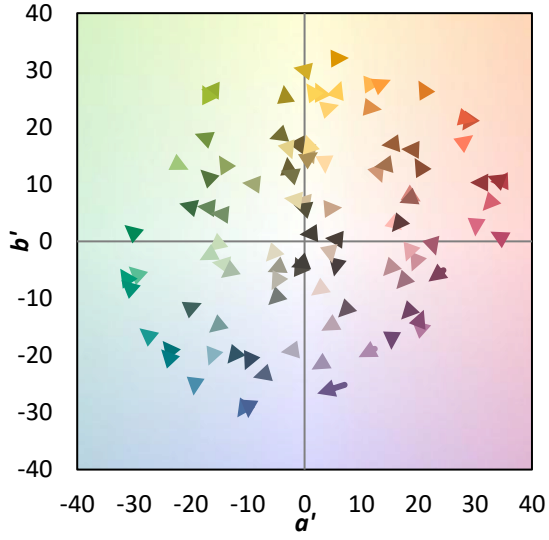


Color Vector Graphics







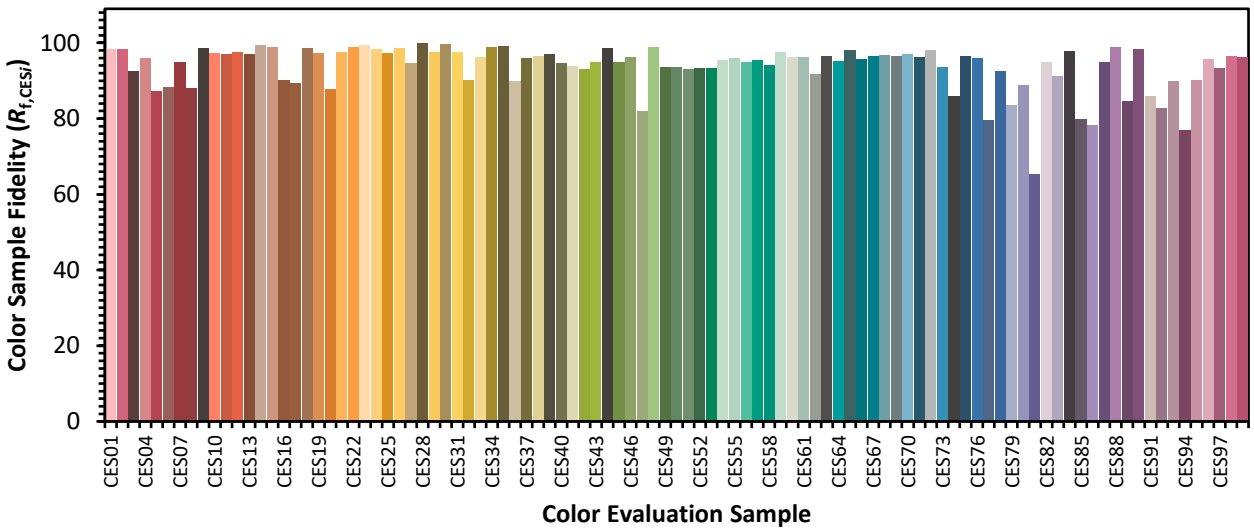


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Individual Sample Fidelity Index ($R_{f,i}$)

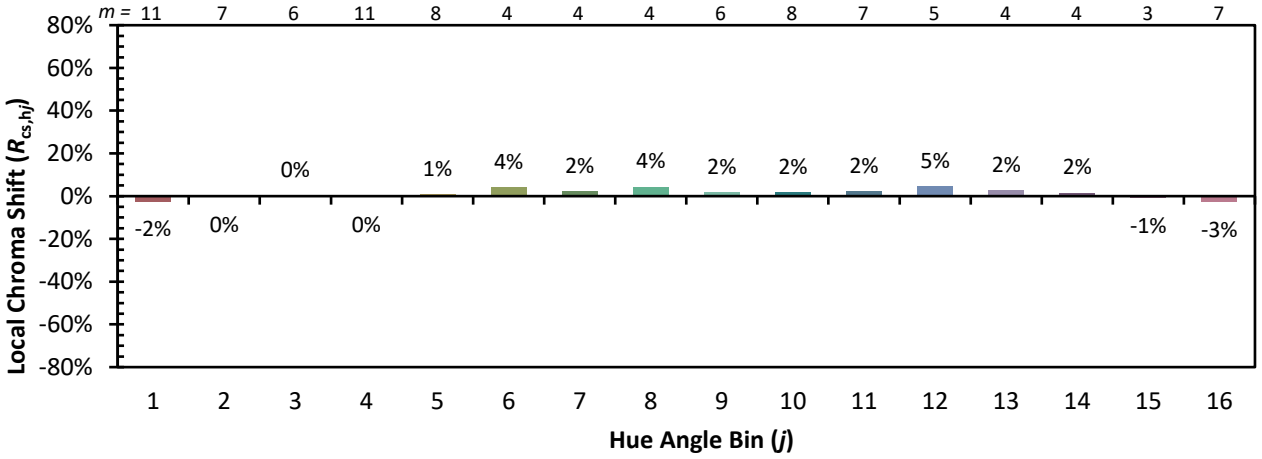
CES01 = 86	CES26 = 99	CES51 = 93	CES76 = 96
CES02 = 64	CES27 = 95	CES52 = 93	CES77 = 79
CES03 = 32	CES28 = 100	CES53 = 93	CES78 = 92
CES04 = 70	CES29 = 97	CES54 = 96	CES79 = 84
CES05 = 52	CES30 = 100	CES55 = 96	CES80 = 89
CES06 = 51	CES31 = 98	CES56 = 95	CES81 = 65
CES07 = 45	CES32 = 90	CES57 = 95	CES82 = 95
CES08 = 43	CES33 = 96	CES58 = 94	CES83 = 91
CES09 = 29	CES34 = 99	CES59 = 97	CES84 = 98
CES10 = 77	CES35 = 99	CES60 = 96	CES85 = 80
CES11 = 59	CES36 = 90	CES61 = 96	CES86 = 78
CES12 = 66	CES37 = 96	CES62 = 92	CES87 = 95
CES13 = 45	CES38 = 96	CES63 = 97	CES88 = 99
CES14 = 74	CES39 = 97	CES64 = 95	CES89 = 85
CES15 = 72	CES40 = 95	CES65 = 98	CES90 = 98
CES16 = 49	CES41 = 94	CES66 = 96	CES91 = 86
CES17 = 50	CES42 = 93	CES67 = 96	CES92 = 83
CES18 = 57	CES43 = 95	CES68 = 97	CES93 = 90
CES19 = 72	CES44 = 99	CES69 = 97	CES94 = 77
CES20 = 68	CES45 = 95	CES70 = 97	CES95 = 90
CES21 = 87	CES46 = 96	CES71 = 96	CES96 = 96
CES22 = 79	CES47 = 82	CES72 = 98	CES97 = 93
CES23 = 92	CES48 = 99	CES73 = 94	CES98 = 97
CES24 = 91	CES49 = 94	CES74 = 86	CES99 = 96
CES25 = 72	CES50 = 94	CES75 = 96	

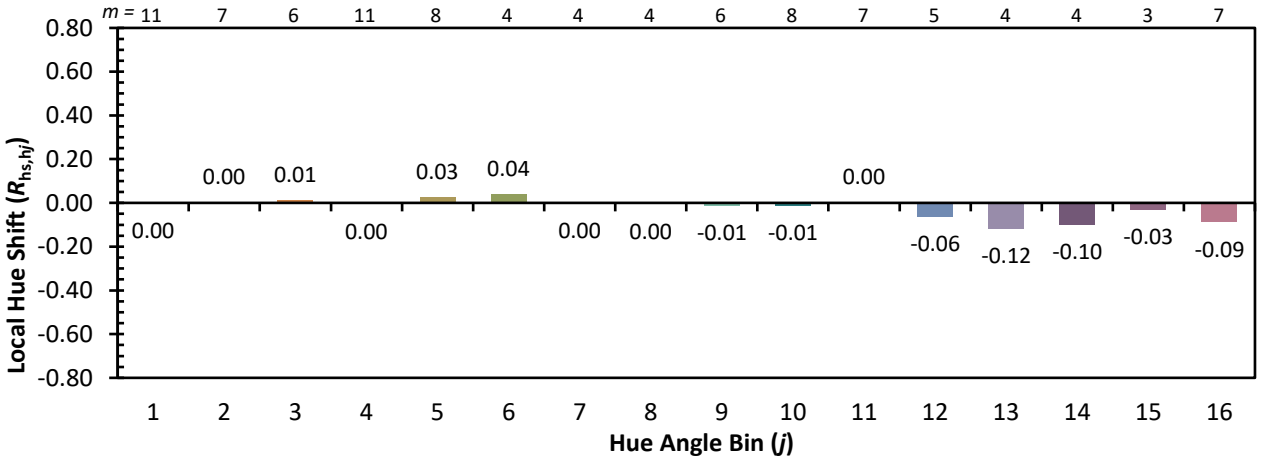


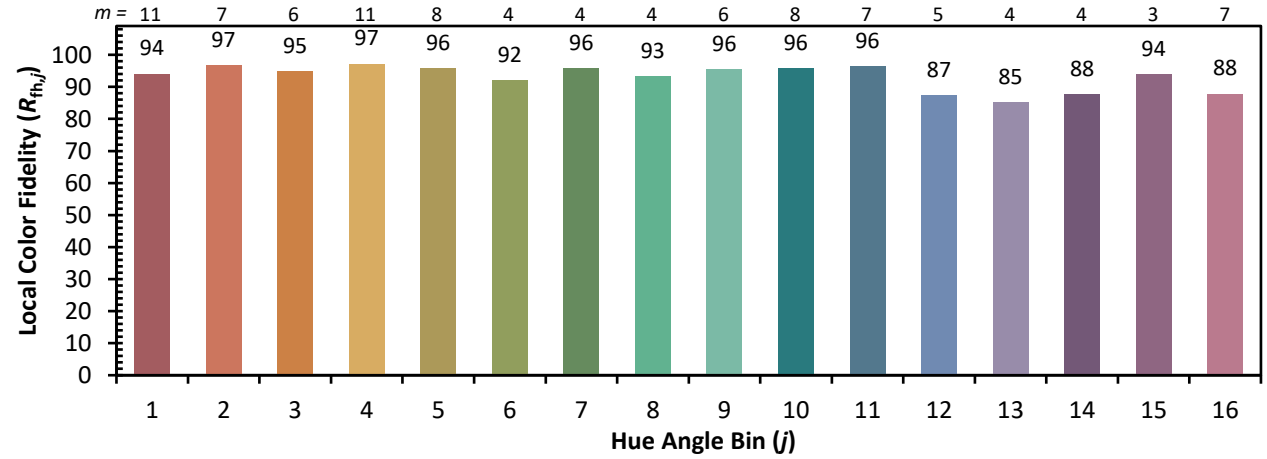
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Color Rendition by Hue-Angle Bin



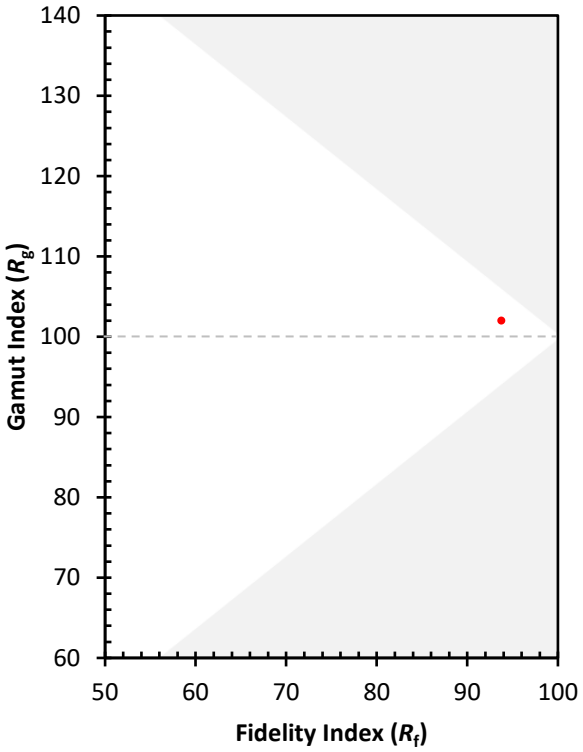


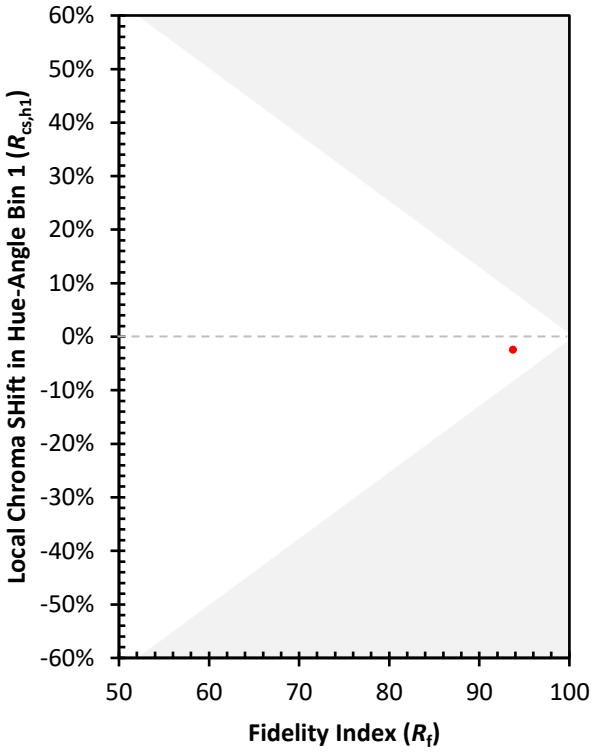


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Measure Comparisons





(END OF REPORT)