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: P1559289

Luminaire Tested: 24CGTX-35-B2750-W2D-4000K

Issue Date: 9/2/2026

Report Generated By 670265710 / DESKTOP-98SHLC4

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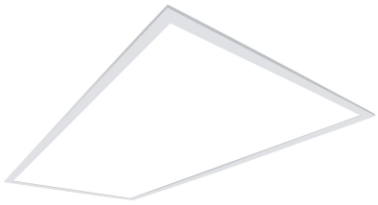
Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1559289
	TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G3-2510-581-23)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	9/2/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	24CGTX-35-B2750-W2D-4000K
Description:	2X4 3500 LUMEN CGTX TROFFER WITH BIO UP LEDS AT 4000K CCT WITH FROSTED SMOOTH l
Light Source:	4000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3556.4 lumens
Efficiency:	N/A
Efficacy:	115.1 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):	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

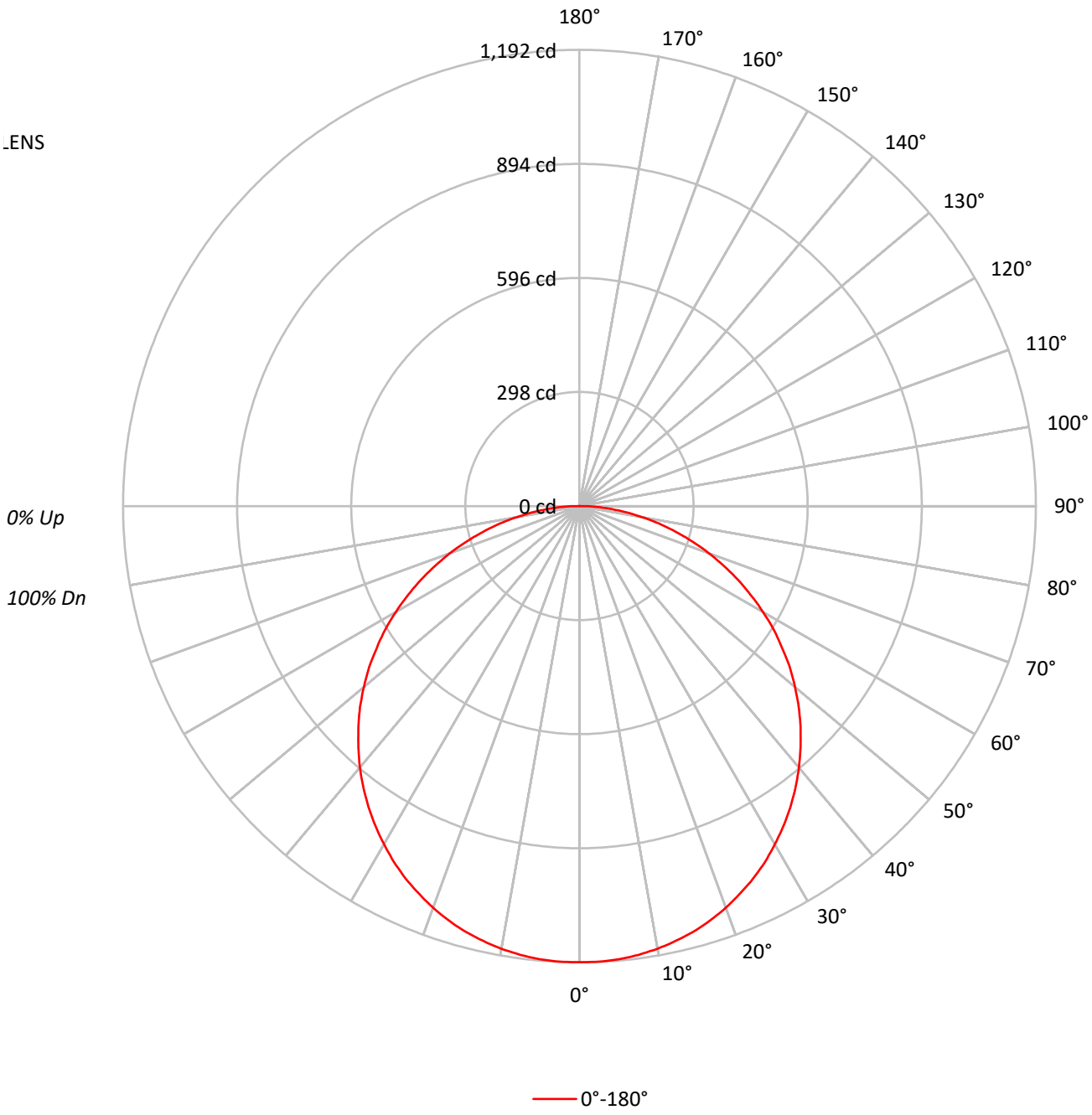


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Scaled Data Report

TEST NUMBER: P1559289
CATALOG NUMBER: 24CGTX-35-B2750-W2D-4000K

Luminous Intensity Polar Plot



LENS

0% Up

100% Dn

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TEST NUMBER: P1559289
CATALOG NUMBER: 24CGTX-35-B2750-W2D-4000K

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	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1603
5°	1605
10°	1605
15°	1604
20°	1600
25°	1594
30°	1586
35°	1577
40°	1566
45°	1553
50°	1538
55°	1516
60°	1490
65°	1455
70°	1413
75°	1355
80°	1287
85°	1181

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 1553 cd/sqm

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Scaled Data Report

TEST NUMBER: P1559289
CATALOG NUMBER: 24CGTX-35-B2750-W2D-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.0	3.2
10°-20°	324.9	9.1
20°-30°	494.9	13.9
30°-40°	600.7	16.9
40°-50°	629.7	17.7
50°-60°	578.2	16.3
60°-70°	452.0	12.7
70°-80°	276.1	7.8
80°-90°	87.0	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°	932.7	26.2
0°-40°	1533.4	43.1
0°-60°	2741.4	77.1
0°-90°	3556.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3556.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1192	
5°	1189	113
15°	1151	325
25°	1074	495
35°	960	601
45°	816	630
55°	646	578
65°	457	452
75°	261	276
85°	76	87
90°	0	

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Scaled Data Report

TEST NUMBER: P1559289
CATALOG NUMBER: 24CGTX-35-B2750-W2D-4000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	1191.7
2.5°	1191.7
5°	1188.7
7.5°	1182.6
10°	1174.6
12.5°	1163.5
15°	1151.4
17.5°	1135.3
20°	1117.2
22.5°	1096.1
25°	1073.9
27.5°	1048.8
30°	1020.6
32.5°	991.4
35°	960.2
37.5°	927.0
40°	891.8
42.5°	854.5
45°	816.3
47.5°	777.0
50°	734.8
52.5°	692.5
55°	646.2
57.5°	601.9
60°	553.6
62.5°	505.3
65°	457.0
67.5°	407.6
70°	359.3
72.5°	310.0
75°	260.7
77.5°	213.4
80°	166.1
82.5°	120.8
85°	76.5
87.5°	39.3
90°	0.0

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TEST NUMBER: P1559289
CATALOG NUMBER: 24CGTX-35-B2750-W2D-4000K

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	13.65	15.31	14.01	15.63	15.94	13.65	15.31	14.01	15.63	15.94
	3H	15.57	17.08	15.94	17.40	17.76	15.57	17.08	15.94	17.40	17.76
	4H	16.32	17.75	16.72	18.09	18.47	16.32	17.75	16.72	18.09	18.47
	6H	16.92	18.24	17.33	18.61	19.00	16.92	18.24	17.33	18.61	19.00
	8H	17.13	18.40	17.55	18.78	19.18	17.13	18.40	17.55	18.78	19.18
	12H	17.28	18.50	17.71	18.88	19.30	17.28	18.50	17.71	18.88	19.30
4H	2H	14.31	15.74	14.71	16.08	16.46	14.31	15.74	14.71	16.08	16.46
	3H	16.46	17.66	16.87	18.06	18.46	16.46	17.66	16.87	18.06	18.46
	4H	17.36	18.45	17.79	18.86	19.29	17.36	18.45	17.79	18.86	19.29
	6H	18.10	19.05	18.55	19.49	19.94	18.10	19.05	18.55	19.49	19.94
	8H	18.36	19.26	18.82	19.70	20.16	18.36	19.26	18.82	19.70	20.16
	12H	18.57	19.37	19.05	19.85	20.32	18.57	19.37	19.05	19.85	20.32
8H	4H	17.72	18.61	18.18	19.05	19.52	17.72	18.61	18.18	19.05	19.52
	6H	18.60	19.34	19.09	19.83	20.30	18.60	19.34	19.09	19.83	20.30
	8H	18.95	19.62	19.46	20.13	20.61	18.95	19.62	19.46	20.13	20.61
	12H	19.25	19.84	19.75	20.33	20.89	19.25	19.84	19.75	20.33	20.89
12H	4H	17.77	18.57	18.25	19.05	19.52	17.77	18.57	18.25	19.05	19.52
	6H	18.68	19.35	19.18	19.85	20.34	18.68	19.35	19.18	19.85	20.34
	8H	19.10	19.69	19.60	20.18	20.74	19.10	19.69	19.60	20.18	20.74

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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: SP1-2505-441-25-R2

Test Date: 06/11/2025

Luminaire Tested: 24CGTX-45-B2750-W2D-4000K

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

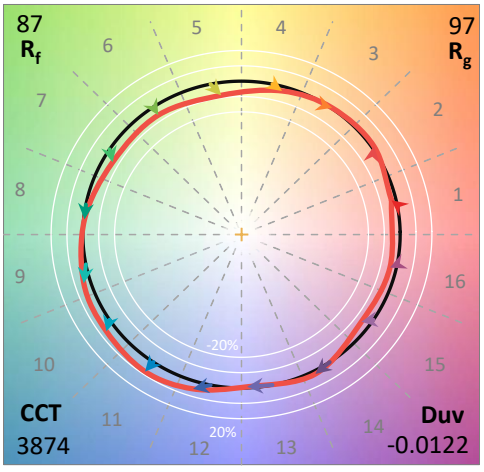
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2505-441-25-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-4000K**
Description:	*THIS IS A REVISION OF REPORT SP1-2504-441-25-R2 TO UPDATE THE CATALOG INFORMATION* 2X4 4500 LUMEN CGTX

Spectral Parameters

CCT (K):	3874
CIE u':	0.2341
CIE v':	0.4886
Duv:	-0.0122
CIE x:	0.3772
CIE y:	0.3498
CIE z:	0.2730
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	590
Purity:	18.12322
Rf:	87
Rg:	96.8

CRI (Ra):	87.1				
R1:	91.2	R9:	90.9		
R2:	86.5	R10:	73.3		
R3:	84.7	R11:	93.5		
R4:	91.9	R12:	67.9		
R5:	89.4	R13:	89.0		
R6:	79.3	R14:	93.0		
R7:	84.7	R15:	92.2		
R8:	88.7				



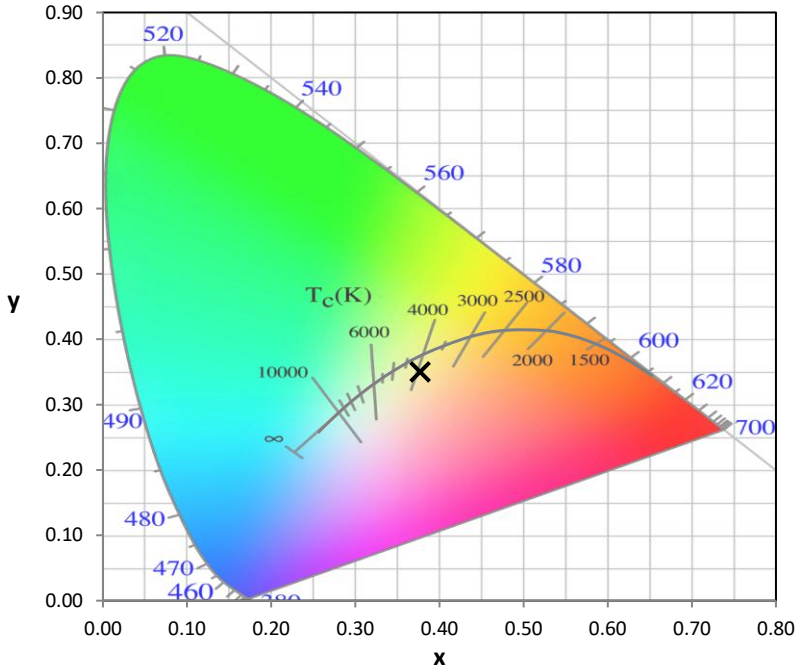
Test Conditions

Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	25.0

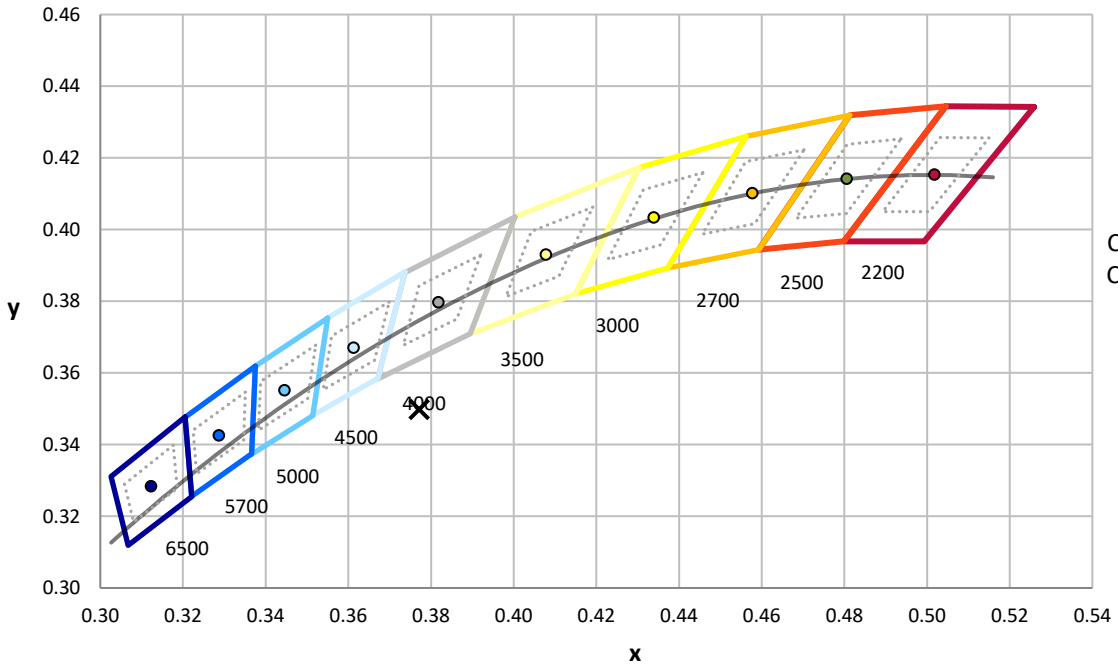
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2024	6/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

REPORT NUMBER: SP1-2505-441-25-R2

CIE 1931 Chromaticity Diagram



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

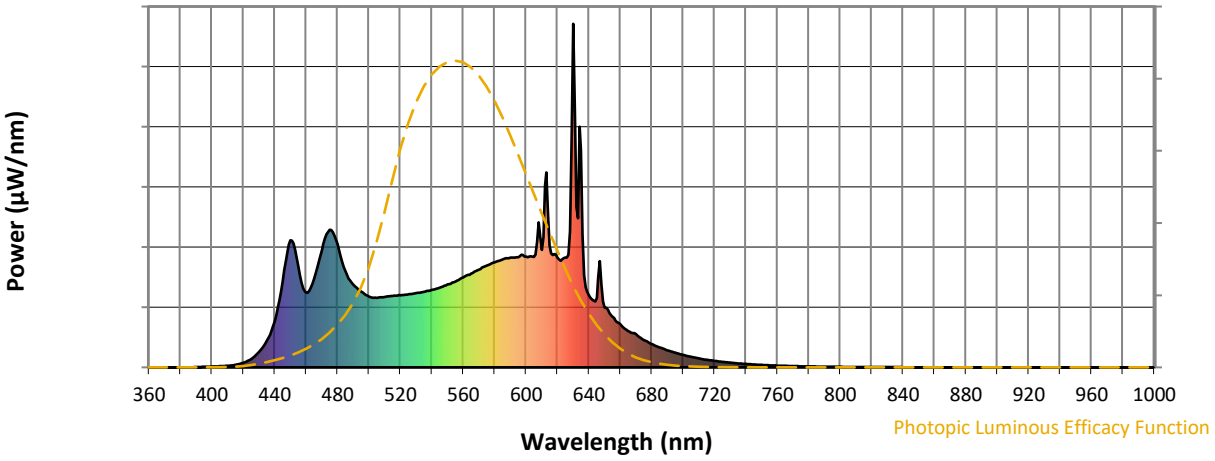


CCT = 3874K
CIE x = 0.3772
CIE y = 0.3498
Duv = -0.0122

Point lies outside the range

REPORT NUMBER: SP1-2505-441-25-R2

Photopic Flux vs. Wavelength

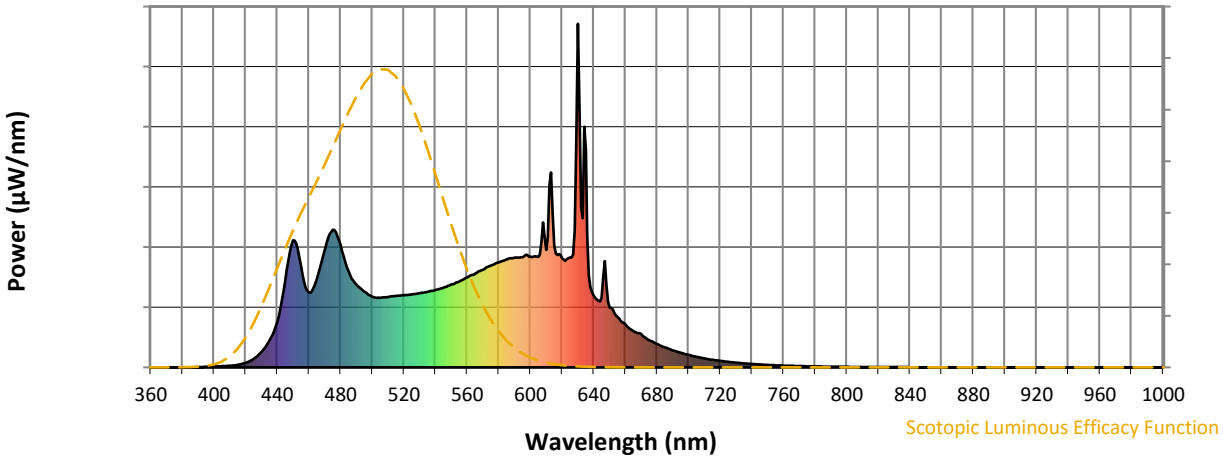


Photopic Lumens: NR

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	241	NR	620	319	NR	750	7	NR	880	0	NR
365	0	NR	495	220	NR	625	319	NR	755	6	NR	885	0	NR
370	0	NR	500	206	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	202	NR	635	632	NR	765	4	NR	895	0	NR
380	0	NR	510	205	NR	640	209	NR	770	4	NR	900	0	NR
385	0	NR	515	208	NR	645	202	NR	775	3	NR	905	0	NR
390	1	NR	520	210	NR	650	174	NR	780	3	NR	910	0	NR
395	2	NR	525	212	NR	655	147	NR	785	2	NR	915	0	NR
400	3	NR	530	216	NR	660	126	NR	790	2	NR	920	0	NR
405	3	NR	535	220	NR	665	106	NR	795	2	NR	925	0	NR
410	5	NR	540	226	NR	670	97	NR	800	2	NR	930	0	NR
415	7	NR	545	232	NR	675	79	NR	805	1	NR	935	0	NR
420	13	NR	550	241	NR	680	68	NR	810	1	NR	940	0	NR
425	24	NR	555	250	NR	685	58	NR	815	1	NR	945	0	NR
430	44	NR	560	262	NR	690	50	NR	820	1	NR	950	0	NR
435	78	NR	565	273	NR	695	43	NR	825	1	NR	955	0	NR
440	133	NR	570	285	NR	700	36	NR	830	1	NR	960	0	NR
445	250	NR	575	296	NR	705	31	NR	835	1	NR	965	0	NR
450	370	NR	580	306	NR	710	26	NR	840	0	NR	970	0	NR
455	293	NR	585	314	NR	715	22	NR	845	0	NR	975	0	NR
460	218	NR	590	319	NR	720	19	NR	850	0	NR	980	0	NR
465	258	NR	595	320	NR	725	16	NR	855	0	NR	985	0	NR
470	342	NR	600	322	NR	730	14	NR	860	0	NR	990	0	NR
475	400	NR	605	322	NR	735	12	NR	865	0	NR	995	0	NR
480	358	NR	610	342	NR	740	10	NR	870	0	NR	1000	0	NR
485	280	NR	615	355	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2505-441-25-R2

Scotopic Flux vs. Wavelength

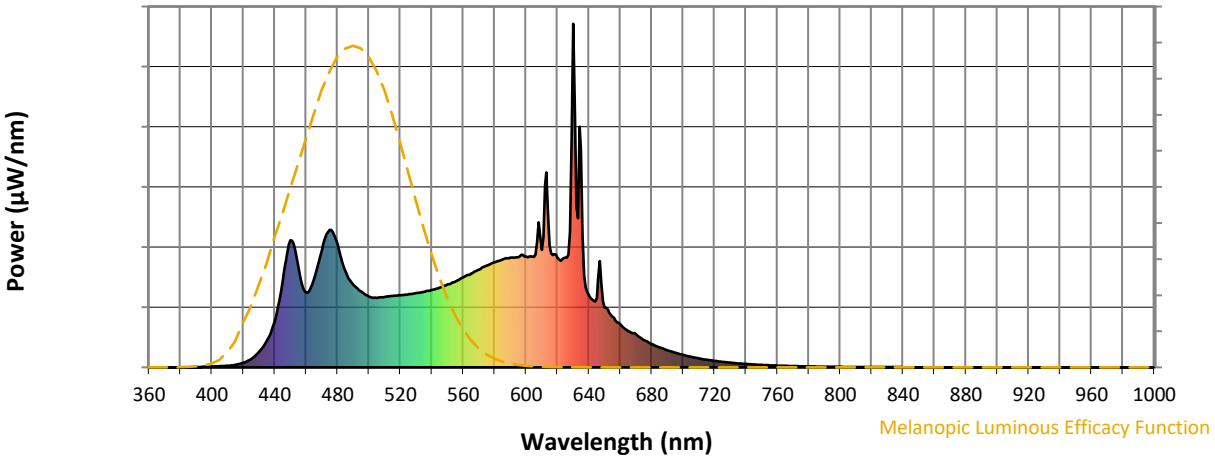


Scotopic Lumens: NR **S/P: 2**

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	241	NR	620	319	NR	750	7	NR	880	0	NR
365	0	NR	495	220	NR	625	319	NR	755	6	NR	885	0	NR
370	0	NR	500	206	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	202	NR	635	632	NR	765	4	NR	895	0	NR
380	0	NR	510	205	NR	640	209	NR	770	4	NR	900	0	NR
385	0	NR	515	208	NR	645	202	NR	775	3	NR	905	0	NR
390	1	NR	520	210	NR	650	174	NR	780	3	NR	910	0	NR
395	2	NR	525	212	NR	655	147	NR	785	2	NR	915	0	NR
400	3	NR	530	216	NR	660	126	NR	790	2	NR	920	0	NR
405	3	NR	535	220	NR	665	106	NR	795	2	NR	925	0	NR
410	5	NR	540	226	NR	670	97	NR	800	2	NR	930	0	NR
415	7	NR	545	232	NR	675	79	NR	805	1	NR	935	0	NR
420	13	NR	550	241	NR	680	68	NR	810	1	NR	940	0	NR
425	24	NR	555	250	NR	685	58	NR	815	1	NR	945	0	NR
430	44	NR	560	262	NR	690	50	NR	820	1	NR	950	0	NR
435	78	NR	565	273	NR	695	43	NR	825	1	NR	955	0	NR
440	133	NR	570	285	NR	700	36	NR	830	1	NR	960	0	NR
445	250	NR	575	296	NR	705	31	NR	835	1	NR	965	0	NR
450	370	NR	580	306	NR	710	26	NR	840	0	NR	970	0	NR
455	293	NR	585	314	NR	715	22	NR	845	0	NR	975	0	NR
460	218	NR	590	319	NR	720	19	NR	850	0	NR	980	0	NR
465	258	NR	595	320	NR	725	16	NR	855	0	NR	985	0	NR
470	342	NR	600	322	NR	730	14	NR	860	0	NR	990	0	NR
475	400	NR	605	322	NR	735	12	NR	865	0	NR	995	0	NR
480	358	NR	610	342	NR	740	10	NR	870	0	NR	1000	0	NR
485	280	NR	615	355	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2505-441-25-R2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 4.5**

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	241	NR	620	319	NR	750	7	NR	880	0	NR
365	0	NR	495	220	NR	625	319	NR	755	6	NR	885	0	NR
370	0	NR	500	206	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	202	NR	635	632	NR	765	4	NR	895	0	NR
380	0	NR	510	205	NR	640	209	NR	770	4	NR	900	0	NR
385	0	NR	515	208	NR	645	202	NR	775	3	NR	905	0	NR
390	1	NR	520	210	NR	650	174	NR	780	3	NR	910	0	NR
395	2	NR	525	212	NR	655	147	NR	785	2	NR	915	0	NR
400	3	NR	530	216	NR	660	126	NR	790	2	NR	920	0	NR
405	3	NR	535	220	NR	665	106	NR	795	2	NR	925	0	NR
410	5	NR	540	226	NR	670	97	NR	800	2	NR	930	0	NR
415	7	NR	545	232	NR	675	79	NR	805	1	NR	935	0	NR
420	13	NR	550	241	NR	680	68	NR	810	1	NR	940	0	NR
425	24	NR	555	250	NR	685	58	NR	815	1	NR	945	0	NR
430	44	NR	560	262	NR	690	50	NR	820	1	NR	950	0	NR
435	78	NR	565	273	NR	695	43	NR	825	1	NR	955	0	NR
440	133	NR	570	285	NR	700	36	NR	830	1	NR	960	0	NR
445	250	NR	575	296	NR	705	31	NR	835	1	NR	965	0	NR
450	370	NR	580	306	NR	710	26	NR	840	0	NR	970	0	NR
455	293	NR	585	314	NR	715	22	NR	845	0	NR	975	0	NR
460	218	NR	590	319	NR	720	19	NR	850	0	NR	980	0	NR
465	258	NR	595	320	NR	725	16	NR	855	0	NR	985	0	NR
470	342	NR	600	322	NR	730	14	NR	860	0	NR	990	0	NR
475	400	NR	605	322	NR	735	12	NR	865	0	NR	995	0	NR
480	358	NR	610	342	NR	740	10	NR	870	0	NR	1000	0	NR
485	280	NR	615	355	NR	745	8	NR	875	0	NR			

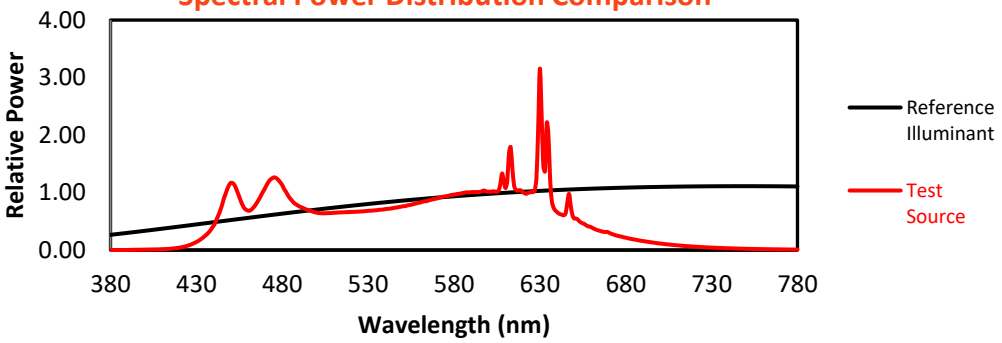
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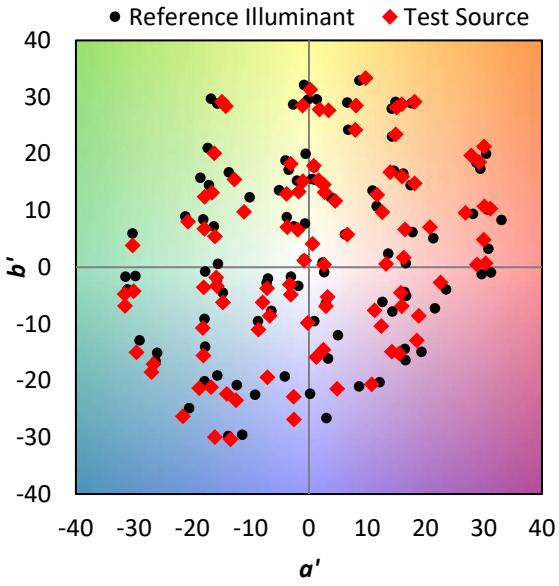
Summary

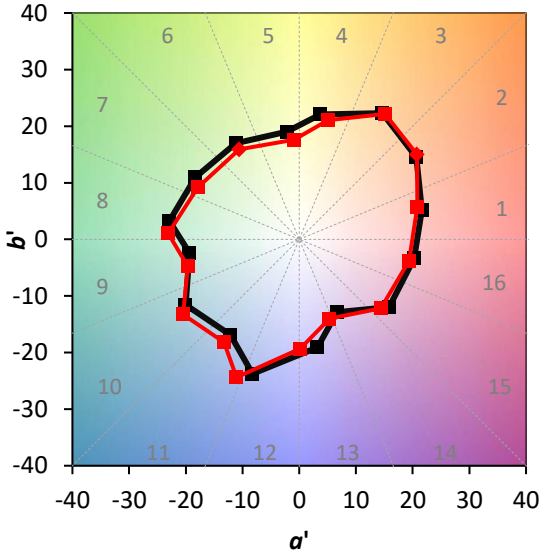
R_f = 87
R_g = 96.8
CIE R_a = 87.1
R_9 = 90.9

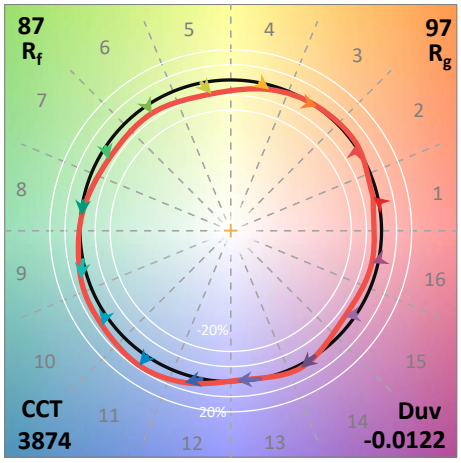
Spectral Power Distribution Comparison

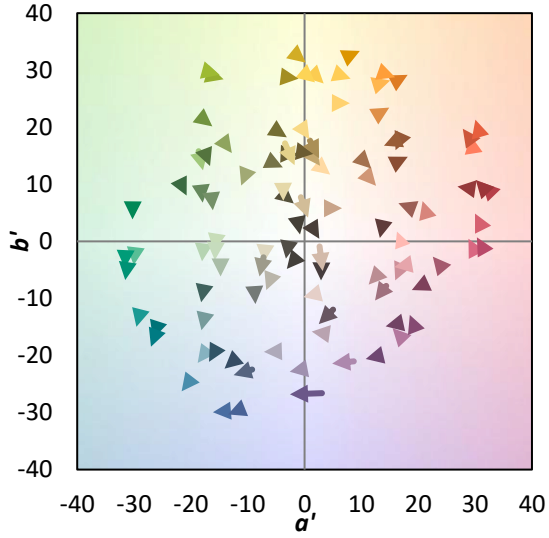


Color Vector Graphics







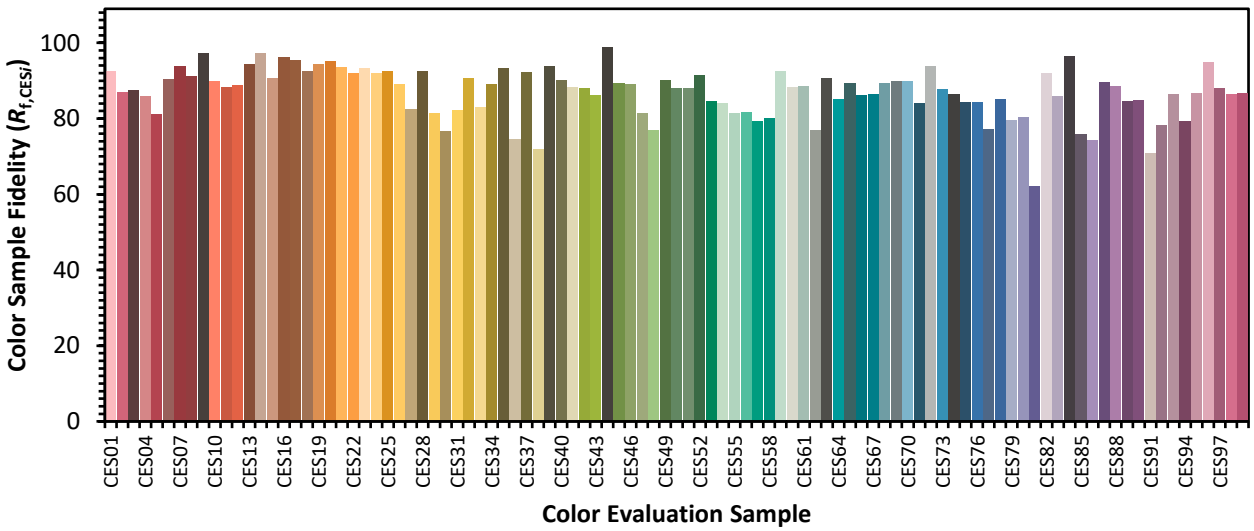


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Individual Sample Fidelity Index ($R_{f,i}$)

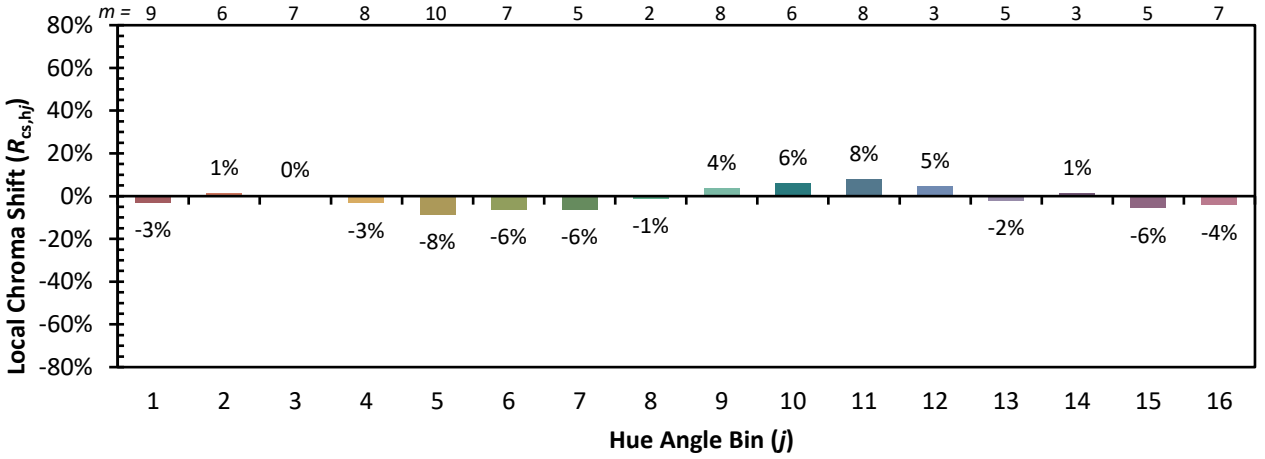
CES01 = 86	CES26 = 89	CES51 = 88	CES76 = 84
CES02 = 63	CES27 = 82	CES52 = 92	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 85	CES78 = 85
CES04 = 70	CES29 = 81	CES54 = 84	CES79 = 80
CES05 = 50	CES30 = 77	CES55 = 81	CES80 = 80
CES06 = 51	CES31 = 82	CES56 = 82	CES81 = 62
CES07 = 43	CES32 = 91	CES57 = 79	CES82 = 92
CES08 = 41	CES33 = 83	CES58 = 80	CES83 = 86
CES09 = 29	CES34 = 89	CES59 = 93	CES84 = 97
CES10 = 75	CES35 = 93	CES60 = 88	CES85 = 76
CES11 = 58	CES36 = 75	CES61 = 89	CES86 = 74
CES12 = 64	CES37 = 92	CES62 = 77	CES87 = 90
CES13 = 43	CES38 = 72	CES63 = 91	CES88 = 88
CES14 = 74	CES39 = 94	CES64 = 85	CES89 = 85
CES15 = 72	CES40 = 90	CES65 = 89	CES90 = 85
CES16 = 47	CES41 = 88	CES66 = 86	CES91 = 71
CES17 = 49	CES42 = 88	CES67 = 86	CES92 = 78
CES18 = 56	CES43 = 86	CES68 = 89	CES93 = 87
CES19 = 71	CES44 = 99	CES69 = 90	CES94 = 79
CES20 = 67	CES45 = 89	CES70 = 90	CES95 = 87
CES21 = 85	CES46 = 89	CES71 = 84	CES96 = 95
CES22 = 78	CES47 = 81	CES72 = 94	CES97 = 88
CES23 = 91	CES48 = 77	CES73 = 88	CES98 = 87
CES24 = 90	CES49 = 90	CES74 = 86	CES99 = 87
CES25 = 71	CES50 = 88	CES75 = 84	

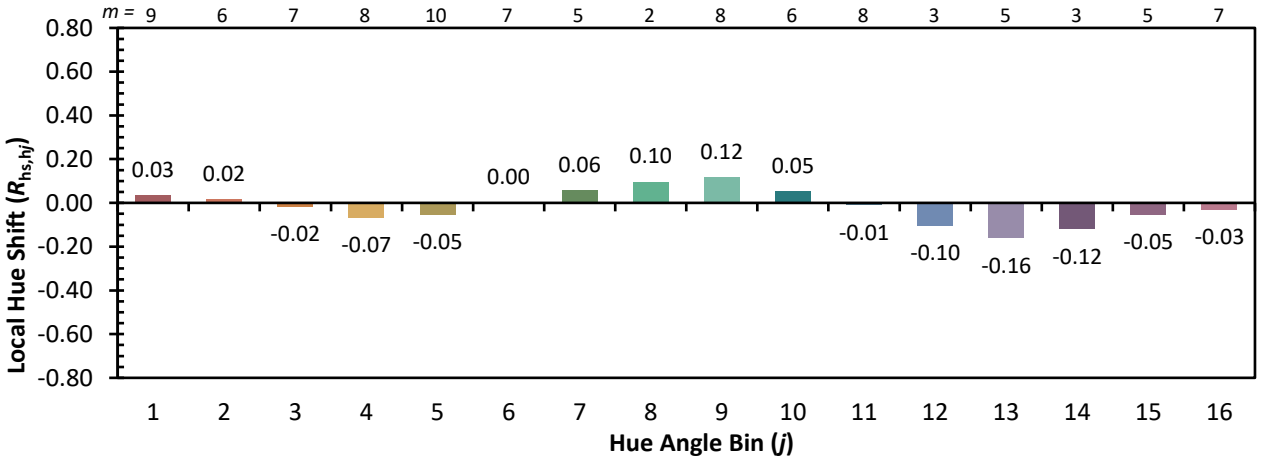


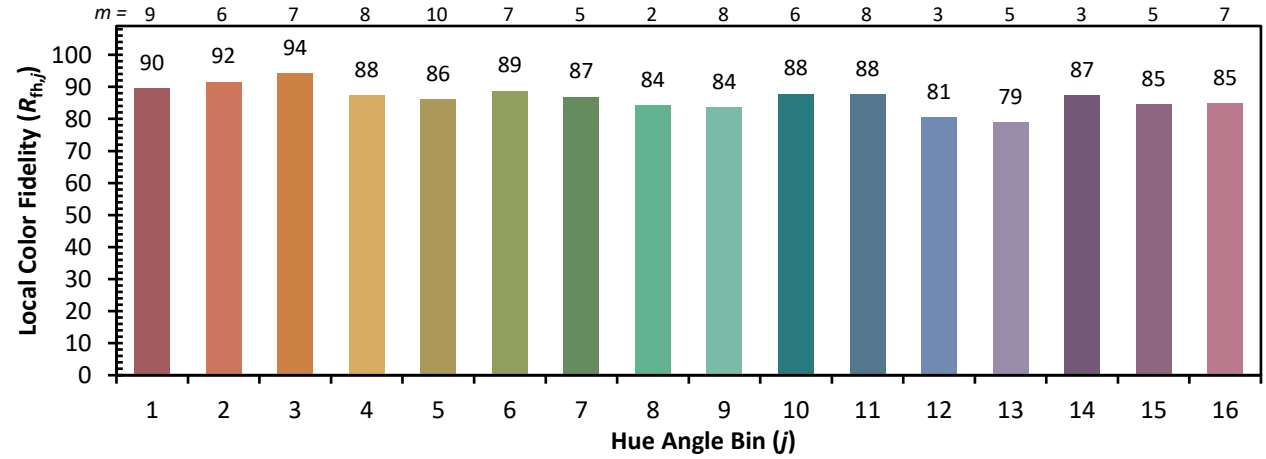
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Color Rendition by Hue-Angle Bin



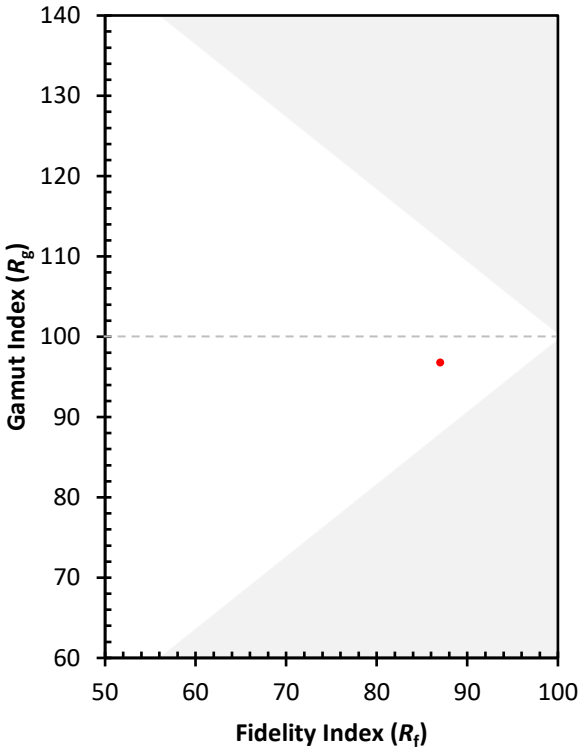


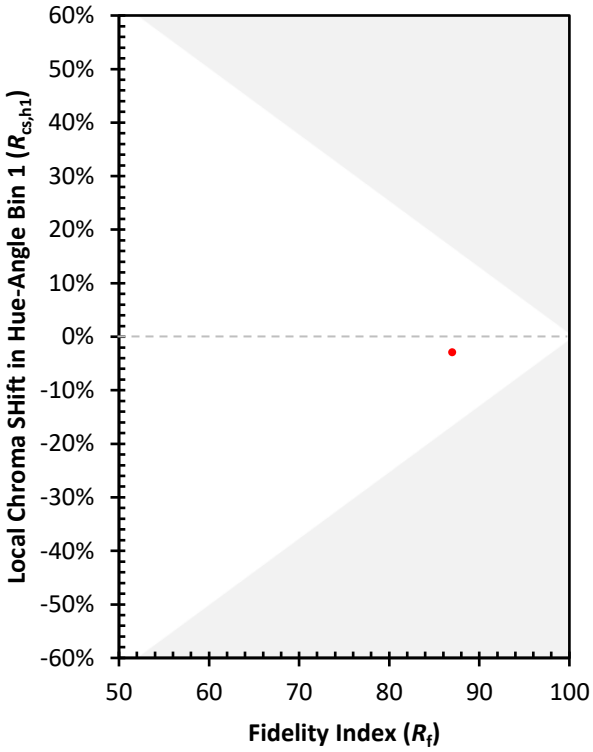


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Measure Comparisons





(END OF REPORT)