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: P976283

Luminaire Tested: 14SR-LD2-30-S-UNV-L830-CD1-U

Issue Date: 03/18/2025

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:	P976283
Test Lab:	INNOVATION CENTER(P3)
Issue Date:	03/18/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	14SR-LD2-30-S-UNV-L830-CD1-U
Description:	METALUX SKYRIDGE 1x4 3000LM PACKAGE 80CRI 3000K STANDARD TROFFER
Light Source:	3000K CCT, 80+ CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2995.2 lumens
Efficiency:	N/A
Efficacy:	139.3 lumens/watt
Spacing Criteria (0/90/45):	1.2 / 1.5 / 1.46
Luminous Opening:	Rectangular (W 1' x L: 4' x H: 0')
CIE Type:	Direct

Input Watts (W):	21.5
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:	28.75 FT

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TEST NUMBER: P976283
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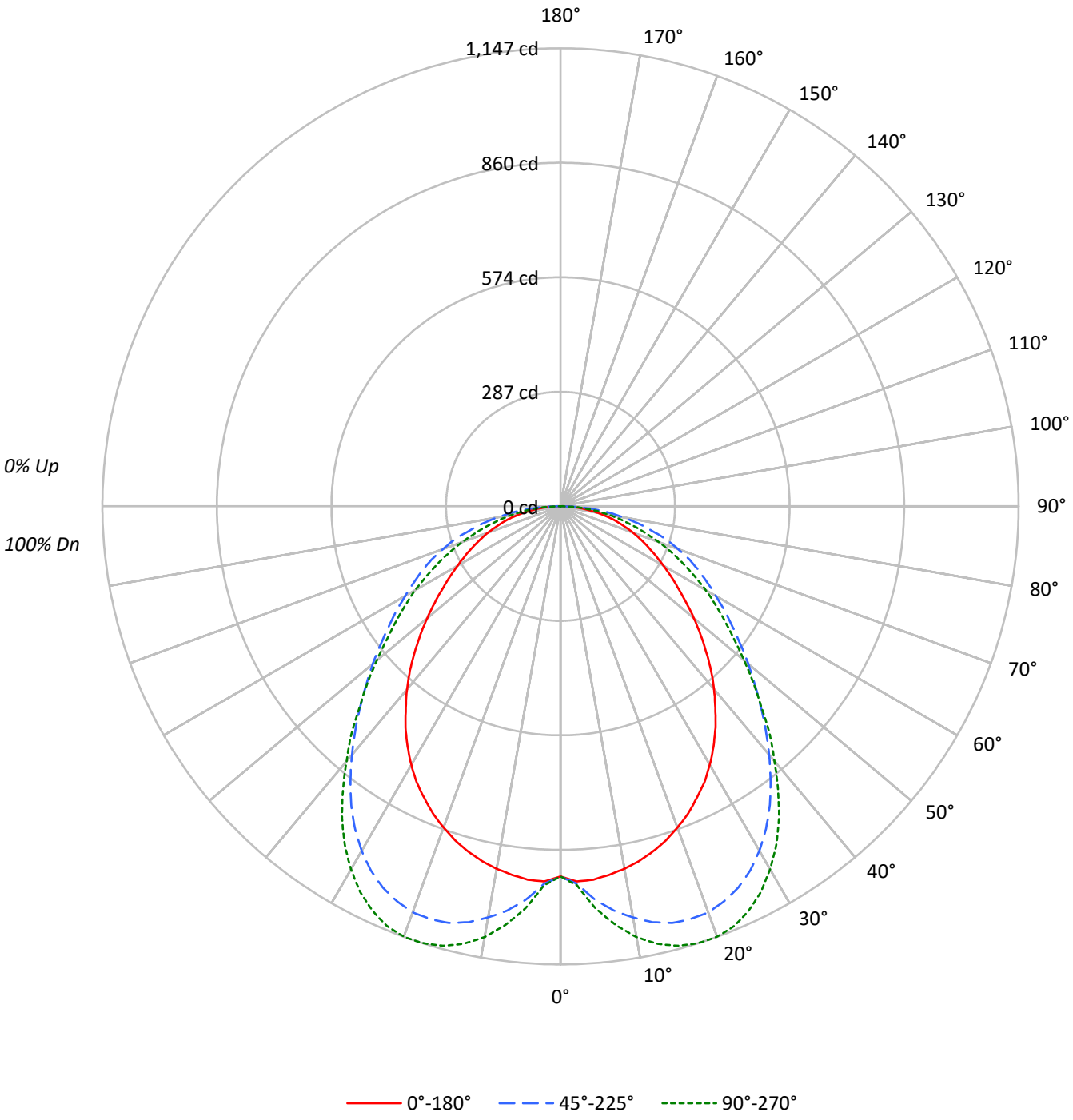
Luminous Intensity Polar Plot



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TEST NUMBER: P976283
CATALOG NUMBER: 14SR-LD2-30-S-UNV-L830-CD1-U

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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2494	2494	2494
5°	2535	2669	2731
10°	2517	2857	2993
15°	2492	3009	3173
20°	2452	3098	3284
25°	2395	3127	3314
30°	2322	3095	3260
35°	2222	3001	3133
40°	2101	2853	2927
45°	1964	2698	2706
50°	1824	2569	2513
55°	1695	2466	2358
60°	1605	2416	2264
65°	1545	2434	2154
70°	1519	2466	2059
75°	1511	2464	1969
80°	1481	2487	1925
85°	1417	2597	1948

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
Vertical Angle: 87.5°
Luminance: 3307 cd/sqm

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Scaled Data Report

TEST NUMBER: P976283
CATALOG NUMBER: 14SR-LD2-30-S-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.9	3.2
10°-20°	296.8	9.9
20°-30°	465.7	15.5
30°-40°	543.0	18.1
40°-50°	516.6	17.2
50°-60°	436.1	14.6
60°-70°	339.8	11.3
70°-80°	221.6	7.4
80°-90°	80.7	2.7
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°	857.3	28.6
0°-40°	1400.3	46.8
0°-60°	2353.1	78.6
0°-90°	2995.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2995.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	927	927	927	927	927	
5°	938	942	988	1011	1011	89
15°	894	982	1080	1128	1139	252
25°	806	938	1053	1103	1116	371
35°	676	810	913	946	954	422
45°	516	633	709	717	711	398
55°	361	474	526	510	503	325
65°	243	348	382	352	338	241
75°	145	233	237	199	189	153
85°	46	100	84	65	63	51
90°	0	0	0	0	0	

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TEST NUMBER: P976283
CATALOG NUMBER: 14SR-LD2-30-S-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	926.8	926.8	926.8	926.8	*926.8*
2.5°	940.2	928.9	946.0	957.5	*949.9*
5°	938.4	942.3	988.2	1010.9	*1010.9*
7.5°	930.7	957.5	1020.6	1051.1	*1056.8*
10°	921.3	970.9	1045.5	1085.7	*1095.2*
12.5°	909.7	980.4	1066.5	1110.4	*1122.0*
15°	894.5	982.5	1079.9	1127.5	*1139.1*
17.5°	*877.2*	*978.5*	*1083.6*	*1135.3*	*1146.7*
20°	856.1	970.9	1081.8	1133.3	*1146.7*
22.5°	833.3	957.5	1070.2	1122.0	*1137.2*
25°	806.5	938.4	1053.1	1102.8	*1116.2*
27.5°	779.7	911.8	1028.2	1073.9	*1087.3*
30°	747.4	882.9	995.9	1039.7	*1049.2*
32.5°	712.7	848.5	957.5	997.5	*1005.3*
35°	676.5	810.2	913.4	946.0	*953.6*
37.5°	636.3	766.3	863.8	892.6	*894.5*
40°	598.2	722.4	812.3	835.1	*833.3*
42.5°	558.0	678.5	760.7	776.0	*776.0*
45°	516.0	632.6	709.0	716.6	*711.1*
47.5°	475.8	590.5	659.4	661.2	*655.5*
50°	435.8	548.5	613.6	607.9	*600.2*
52.5°	397.5	508.3	567.7	556.1	*548.5*
55°	361.2	473.9	525.6	510.4	*502.6*
57.5°	328.7	439.7	487.3	468.2	*460.5*
60°	298.2	407.2	449.0	428.2	*420.6*
62.5°	269.5	376.7	414.8	389.9	*378.3*
65°	242.7	347.8	382.2	351.7	*338.3*
67.5°	217.8	319.2	349.9	311.6	*300.0*
70°	193.1	290.5	313.4	273.4	*261.7*
72.5°	168.1	261.7	279.0	235.1	*223.6*
75°	145.3	233.3	237.0	198.6	*189.4*
77.5°	120.3	208.3	200.7	164.4	*154.7*
80°	95.6	176.0	160.5	130.0	*124.2*
82.5°	70.7	137.6	122.4	97.5	*93.5*
85°	45.9	99.5	84.1	64.9	*63.1*
87.5°	22.9	53.6	42.0	32.6	*30.5*
90°	0.0	0.0	0.0	0.0	*0.0*

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TEST NUMBER: P976283
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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	14.2	15.8	14.6	16.1	16.5	14.9	16.6	15.3	16.9	17.2
	3H	16.0	17.4	16.4	17.8	18.1	16.7	18.2	17.1	18.5	18.9
	4H	16.7	18.1	17.1	18.4	18.8	17.5	18.8	17.8	19.2	19.6
	6H	17.3	18.6	17.7	18.9	19.3	18.0	19.3	18.4	19.7	20.1
	8H	17.5	18.7	17.9	19.1	19.5	18.2	19.5	18.7	19.9	20.3
	12H	17.7	18.8	18.1	19.2	19.6	18.4	19.6	18.8	20.0	20.4
4H	2H	15.2	16.6	15.6	16.9	17.3	15.7	17.1	16.1	17.4	17.8
	3H	17.3	18.5	17.7	18.9	19.3	17.8	18.9	18.2	19.3	19.7
	4H	18.3	19.4	18.7	19.8	20.2	18.6	19.7	19.0	20.1	20.5
	6H	19.1	20.1	19.6	20.5	20.9	19.3	20.2	19.8	20.7	21.1
	8H	19.4	20.3	19.9	20.7	21.2	19.6	20.4	20.0	20.9	21.3
	12H	19.6	20.4	20.1	20.9	21.3	19.8	20.6	20.3	21.1	21.5
8H	4H	18.8	19.7	19.3	20.2	20.6	19.1	20.0	19.5	20.4	20.9
	6H	19.9	20.7	20.4	21.2	21.6	19.9	20.7	20.4	21.2	21.6
	8H	20.4	21.1	20.9	21.6	22.1	20.3	21.0	20.8	21.5	22.0
	12H	20.8	21.4	21.3	21.9	22.4	20.6	21.2	21.1	21.7	22.3
12H	4H	18.9	19.7	19.4	20.2	20.6	19.2	20.0	19.7	20.4	20.9
	6H	20.1	20.7	20.6	21.2	21.7	20.1	20.8	20.6	21.2	21.8
	8H	20.6	21.2	21.1	21.7	22.3	20.5	21.1	21.0	21.6	22.2

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Peachtree City, GA 30269

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Metalux

Report Number: SP1-2506-457-5

Test Date: 07/02/2025

Luminaire Tested: 24SR-LD2-64-C-UNV-L930-CD1-U

Data in this report applies to families of products including 24SR-LD2-64-C-UNV-L930-CD1-U

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

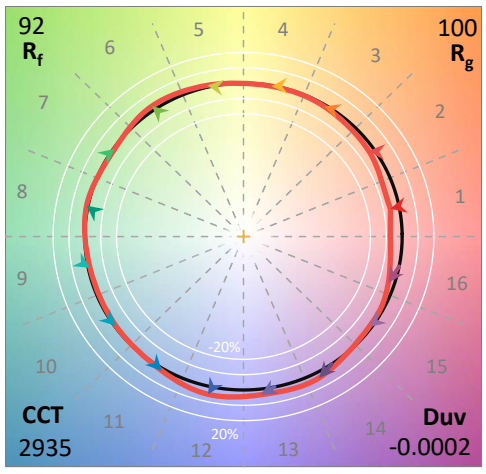
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2506-457-5
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	07/02/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Metalux
Catalog Number:	**24SR-LD2-64-C-UNV-L930-CD1-U**
Description:	2X4 SKYRIDGE 6400LM Fixture with new LTN chip

Spectral Parameters

CCT (K):	2935
CIE u':	0.2530
CIE v':	0.5224
Duv:	-0.0002
CIE x:	0.4413
CIE y:	0.4049
CIE z:	0.1538
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	583
Purity:	53.99297
Rf:	91.8
Rg:	99.6

CRI (Ra):	93.5				
R1:	94.7	R9:	55.1		
R2:	97.2	R10:	92.3		
R3:	98.6	R11:	97.0		
R4:	95.2	R12:	86.4		
R5:	94.7	R13:	95.3		
R6:	96.8	R14:	98.2		
R7:	90.9	R15:	89.3		
R8:	80.4				



Test Conditions

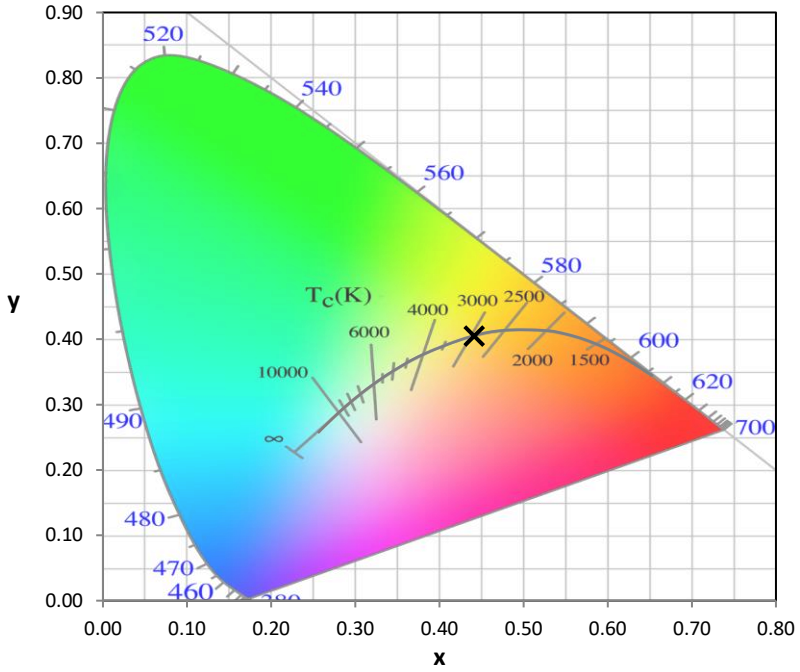
Stabilization Time:	40M
Operation Time:	1H 40M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-457-5

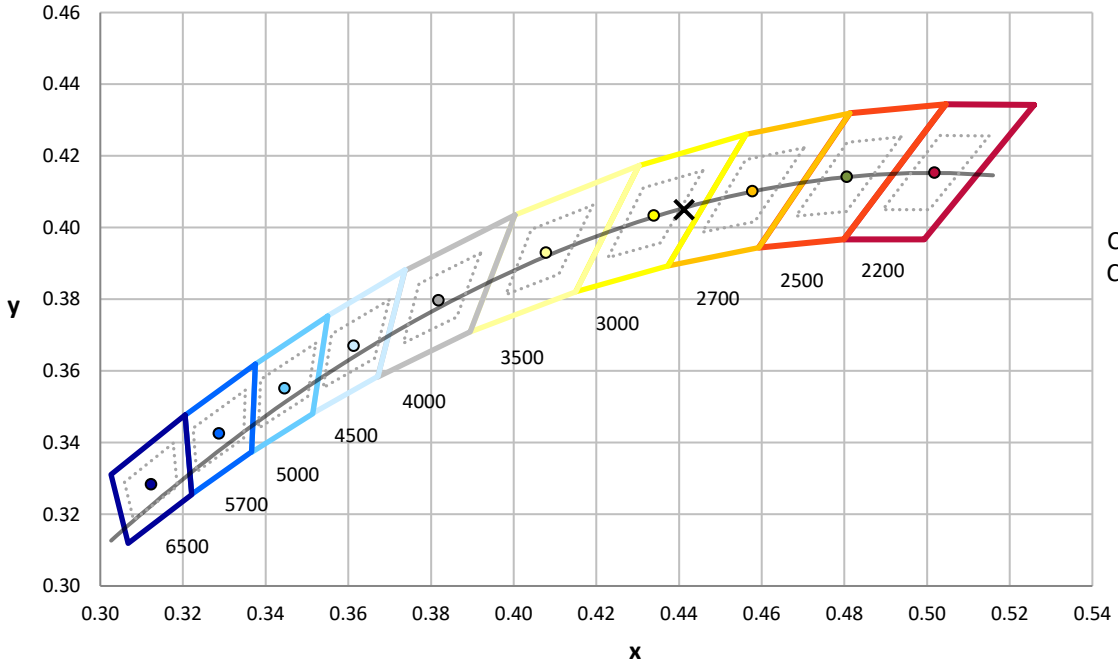
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2506-457-5

CIE 1931 Chromaticity Diagram



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

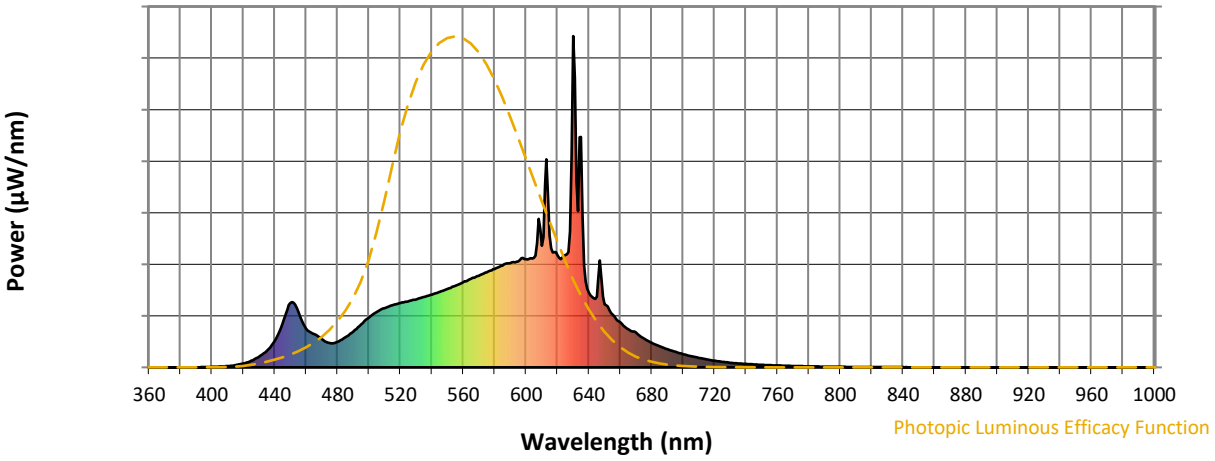


CCT = 2935K
CIE x = 0.4413
CIE y = 0.4049
Duv = -0.0002

Point lies inside the ANSI 3000K 7-step quadrangle

REPORT NUMBER: SP1-2506-457-5

Photopic Flux vs. Wavelength

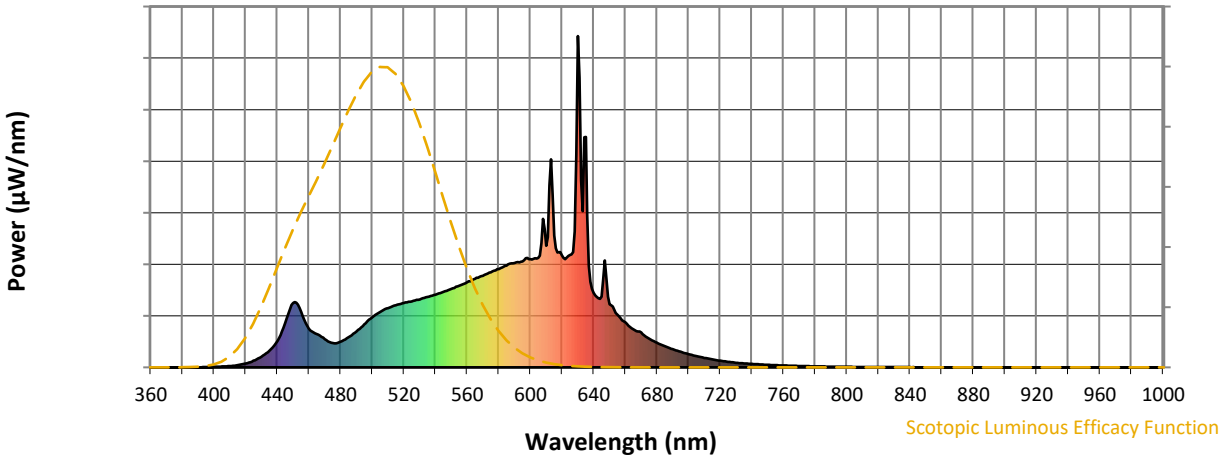


Photopic Lumens: NR

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	108	NR	620	338	NR	750	8	NR	880	0	NR
365	0	NR	495	129	NR	625	339	NR	755	7	NR	885	0	NR
370	0	NR	500	151	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	168	NR	635	695	NR	765	5	NR	895	0	NR
380	0	NR	510	179	NR	640	225	NR	770	4	NR	900	0	NR
385	0	NR	515	187	NR	645	214	NR	775	4	NR	905	0	NR
390	0	NR	520	194	NR	650	190	NR	780	3	NR	910	0	NR
395	1	NR	525	199	NR	655	160	NR	785	3	NR	915	0	NR
400	2	NR	530	205	NR	660	136	NR	790	2	NR	920	0	NR
405	2	NR	535	213	NR	665	115	NR	795	2	NR	925	0	NR
410	4	NR	540	219	NR	670	106	NR	800	2	NR	930	0	NR
415	7	NR	545	228	NR	675	87	NR	805	1	NR	935	0	NR
420	12	NR	550	236	NR	680	74	NR	810	1	NR	940	0	NR
425	20	NR	555	247	NR	685	64	NR	815	1	NR	945	0	NR
430	32	NR	560	257	NR	690	55	NR	820	1	NR	950	0	NR
435	50	NR	565	267	NR	695	47	NR	825	1	NR	955	0	NR
440	79	NR	570	277	NR	700	40	NR	830	1	NR	960	0	NR
445	133	NR	575	287	NR	705	34	NR	835	1	NR	965	0	NR
450	194	NR	580	297	NR	710	29	NR	840	1	NR	970	0	NR
455	168	NR	585	308	NR	715	24	NR	845	0	NR	975	0	NR
460	117	NR	590	315	NR	720	20	NR	850	0	NR	980	0	NR
465	101	NR	595	320	NR	725	17	NR	855	0	NR	985	0	NR
470	85	NR	600	327	NR	730	14	NR	860	0	NR	990	0	NR
475	73	NR	605	331	NR	735	12	NR	865	0	NR	995	0	NR
480	77	NR	610	367	NR	740	10	NR	870	0	NR	1000	0	NR
485	91	NR	615	398	NR	745	9	NR	875	0	NR			

REPORT NUMBER: SP1-2506-457-5

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.4**

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	108	NR	620	338	NR	750	8	NR	880	0	NR
365	0	NR	495	129	NR	625	339	NR	755	7	NR	885	0	NR
370	0	NR	500	151	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	168	NR	635	695	NR	765	5	NR	895	0	NR
380	0	NR	510	179	NR	640	225	NR	770	4	NR	900	0	NR
385	0	NR	515	187	NR	645	214	NR	775	4	NR	905	0	NR
390	0	NR	520	194	NR	650	190	NR	780	3	NR	910	0	NR
395	1	NR	525	199	NR	655	160	NR	785	3	NR	915	0	NR
400	2	NR	530	205	NR	660	136	NR	790	2	NR	920	0	NR
405	2	NR	535	213	NR	665	115	NR	795	2	NR	925	0	NR
410	4	NR	540	219	NR	670	106	NR	800	2	NR	930	0	NR
415	7	NR	545	228	NR	675	87	NR	805	1	NR	935	0	NR
420	12	NR	550	236	NR	680	74	NR	810	1	NR	940	0	NR
425	20	NR	555	247	NR	685	64	NR	815	1	NR	945	0	NR
430	32	NR	560	257	NR	690	55	NR	820	1	NR	950	0	NR
435	50	NR	565	267	NR	695	47	NR	825	1	NR	955	0	NR
440	79	NR	570	277	NR	700	40	NR	830	1	NR	960	0	NR
445	133	NR	575	287	NR	705	34	NR	835	1	NR	965	0	NR
450	194	NR	580	297	NR	710	29	NR	840	1	NR	970	0	NR
455	168	NR	585	308	NR	715	24	NR	845	0	NR	975	0	NR
460	117	NR	590	315	NR	720	20	NR	850	0	NR	980	0	NR
465	101	NR	595	320	NR	725	17	NR	855	0	NR	985	0	NR
470	85	NR	600	327	NR	730	14	NR	860	0	NR	990	0	NR
475	73	NR	605	331	NR	735	12	NR	865	0	NR	995	0	NR
480	77	NR	610	367	NR	740	10	NR	870	0	NR	1000	0	NR
485	91	NR	615	398	NR	745	9	NR	875	0	NR			

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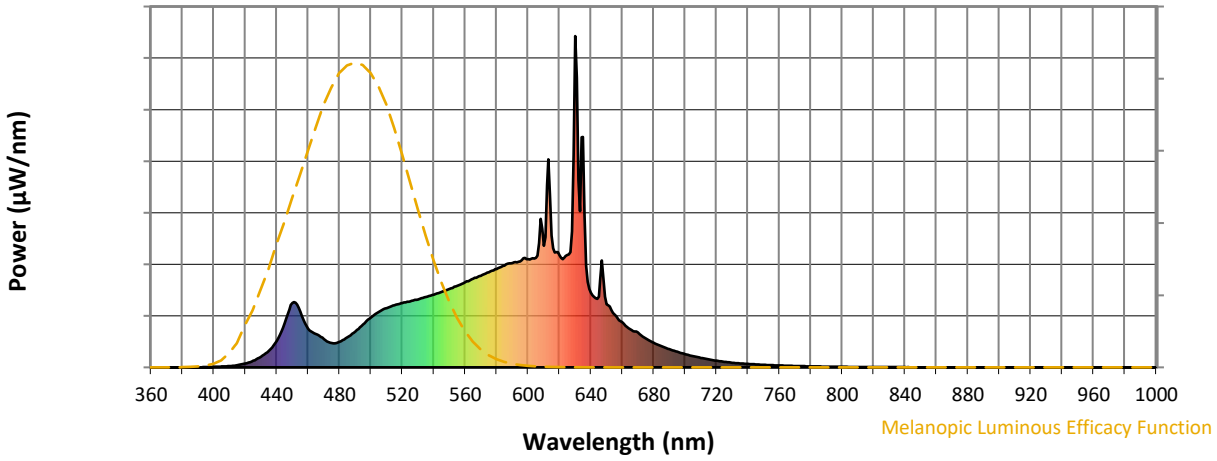
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.72**

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	108	NR	620	338	NR	750	8	NR	880	0	NR
365	0	NR	495	129	NR	625	339	NR	755	7	NR	885	0	NR
370	0	NR	500	151	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	168	NR	635	695	NR	765	5	NR	895	0	NR
380	0	NR	510	179	NR	640	225	NR	770	4	NR	900	0	NR
385	0	NR	515	187	NR	645	214	NR	775	4	NR	905	0	NR
390	0	NR	520	194	NR	650	190	NR	780	3	NR	910	0	NR
395	1	NR	525	199	NR	655	160	NR	785	3	NR	915	0	NR
400	2	NR	530	205	NR	660	136	NR	790	2	NR	920	0	NR
405	2	NR	535	213	NR	665	115	NR	795	2	NR	925	0	NR
410	4	NR	540	219	NR	670	106	NR	800	2	NR	930	0	NR
415	7	NR	545	228	NR	675	87	NR	805	1	NR	935	0	NR
420	12	NR	550	236	NR	680	74	NR	810	1	NR	940	0	NR
425	20	NR	555	247	NR	685	64	NR	815	1	NR	945	0	NR
430	32	NR	560	257	NR	690	55	NR	820	1	NR	950	0	NR
435	50	NR	565	267	NR	695	47	NR	825	1	NR	955	0	NR
440	79	NR	570	277	NR	700	40	NR	830	1	NR	960	0	NR
445	133	NR	575	287	NR	705	34	NR	835	1	NR	965	0	NR
450	194	NR	580	297	NR	710	29	NR	840	1	NR	970	0	NR
455	168	NR	585	308	NR	715	24	NR	845	0	NR	975	0	NR
460	117	NR	590	315	NR	720	20	NR	850	0	NR	980	0	NR
465	101	NR	595	320	NR	725	17	NR	855	0	NR	985	0	NR
470	85	NR	600	327	NR	730	14	NR	860	0	NR	990	0	NR
475	73	NR	605	331	NR	735	12	NR	865	0	NR	995	0	NR
480	77	NR	610	367	NR	740	10	NR	870	0	NR	1000	0	NR
485	91	NR	615	398	NR	745	9	NR	875	0	NR			

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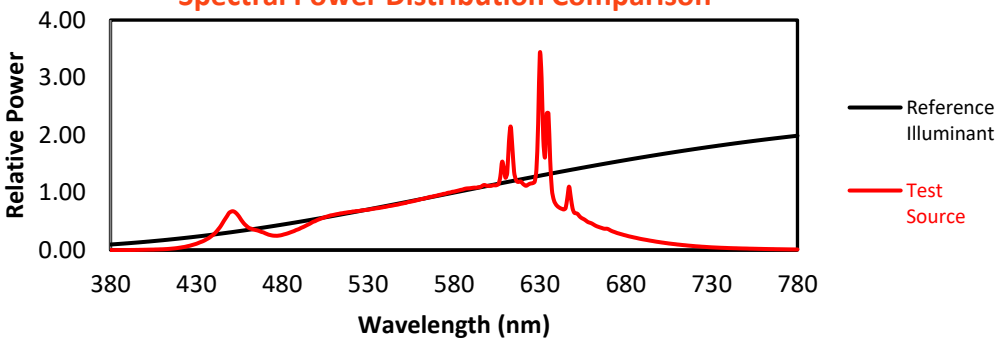
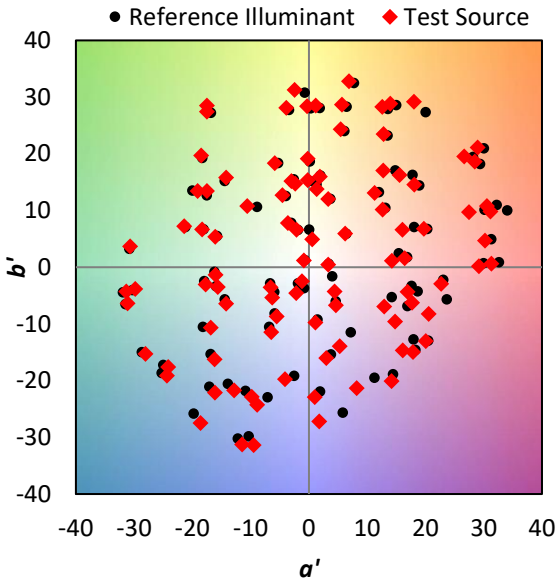
Summary

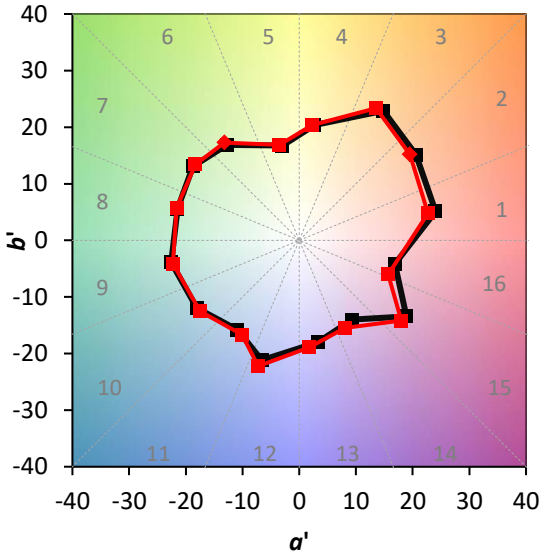
R_f = 91.8
R_g = 99.6
CIE R_a = 93.5
R_9 = 55.1

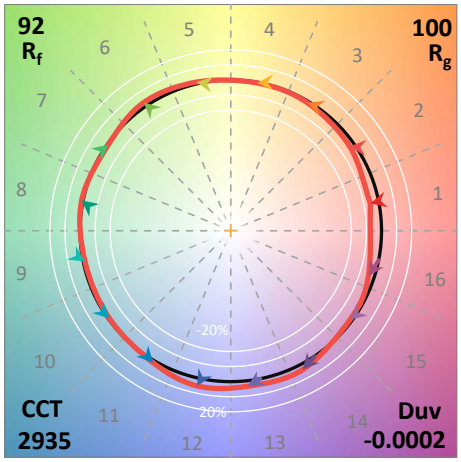
Spectral Power Distribution Comparison

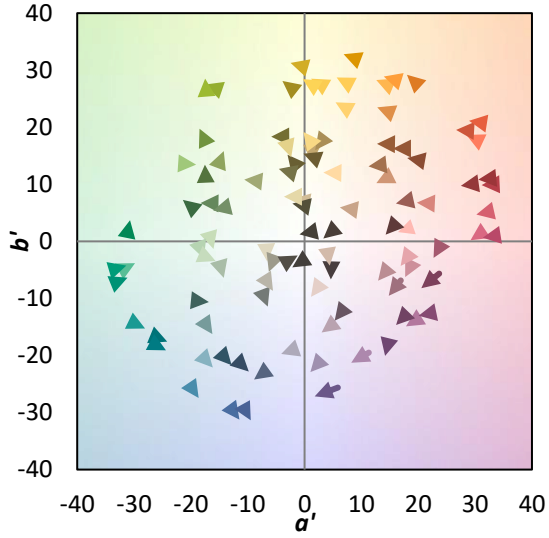


Color Vector Graphics









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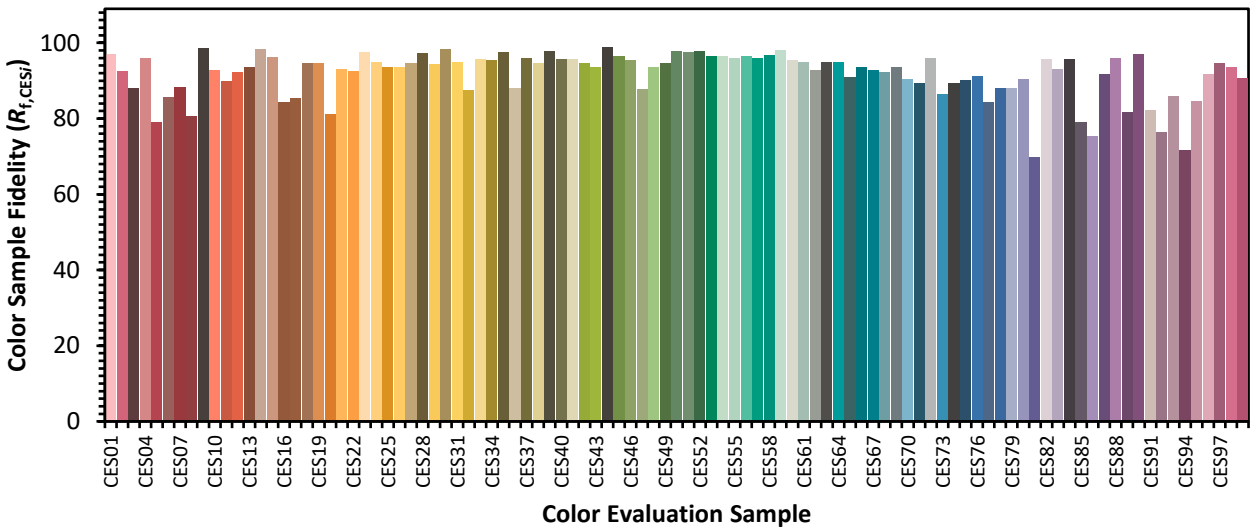
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 94	CES51 = 97	CES76 = 91
CES02 = 63	CES27 = 95	CES52 = 98	CES77 = 84
CES03 = 32	CES28 = 97	CES53 = 97	CES78 = 88
CES04 = 70	CES29 = 94	CES54 = 96	CES79 = 88
CES05 = 51	CES30 = 98	CES55 = 96	CES80 = 90
CES06 = 51	CES31 = 95	CES56 = 97	CES81 = 70
CES07 = 44	CES32 = 87	CES57 = 96	CES82 = 96
CES08 = 42	CES33 = 96	CES58 = 97	CES83 = 93
CES09 = 29	CES34 = 95	CES59 = 98	CES84 = 96
CES10 = 76	CES35 = 97	CES60 = 95	CES85 = 79
CES11 = 59	CES36 = 88	CES61 = 95	CES86 = 75
CES12 = 65	CES37 = 96	CES62 = 93	CES87 = 92
CES13 = 44	CES38 = 95	CES63 = 95	CES88 = 96
CES14 = 74	CES39 = 98	CES64 = 95	CES89 = 82
CES15 = 72	CES40 = 96	CES65 = 91	CES90 = 97
CES16 = 48	CES41 = 96	CES66 = 94	CES91 = 82
CES17 = 50	CES42 = 95	CES67 = 93	CES92 = 77
CES18 = 57	CES43 = 94	CES68 = 92	CES93 = 86
CES19 = 72	CES44 = 99	CES69 = 93	CES94 = 72
CES20 = 67	CES45 = 97	CES70 = 91	CES95 = 85
CES21 = 86	CES46 = 95	CES71 = 89	CES96 = 92
CES22 = 79	CES47 = 88	CES72 = 96	CES97 = 95
CES23 = 92	CES48 = 94	CES73 = 86	CES98 = 94
CES24 = 91	CES49 = 95	CES74 = 89	CES99 = 91
CES25 = 72	CES50 = 98	CES75 = 90	



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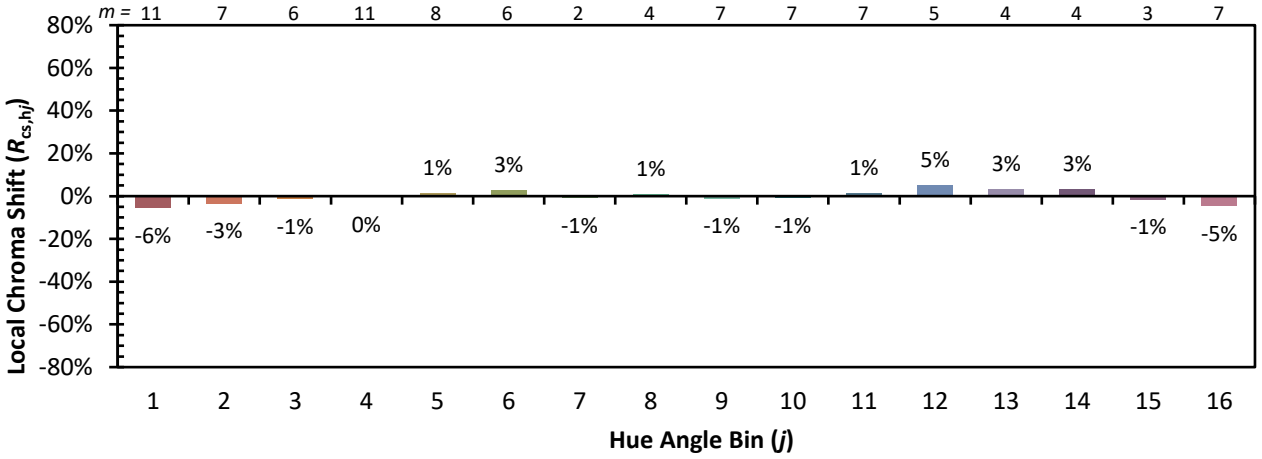
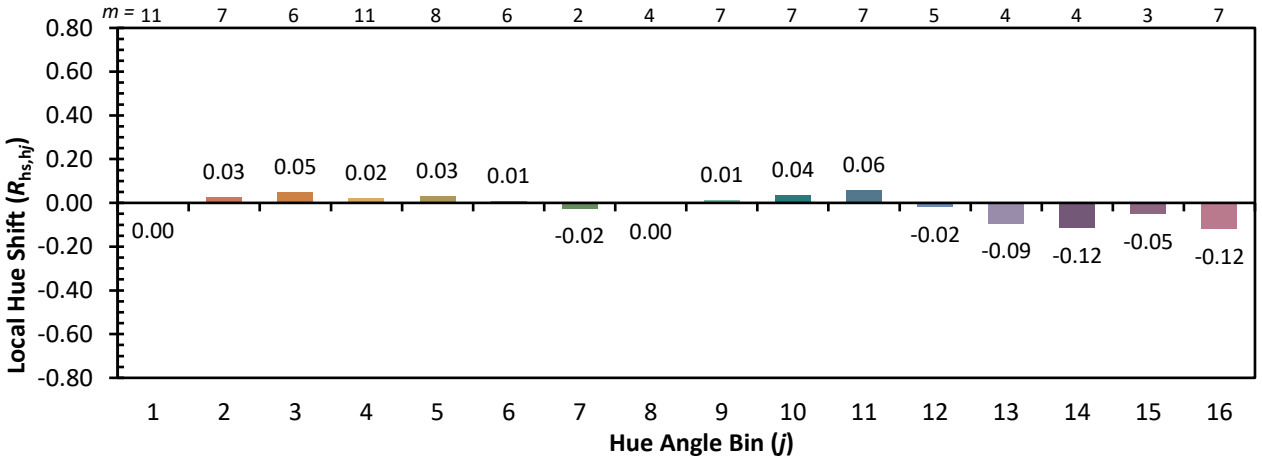
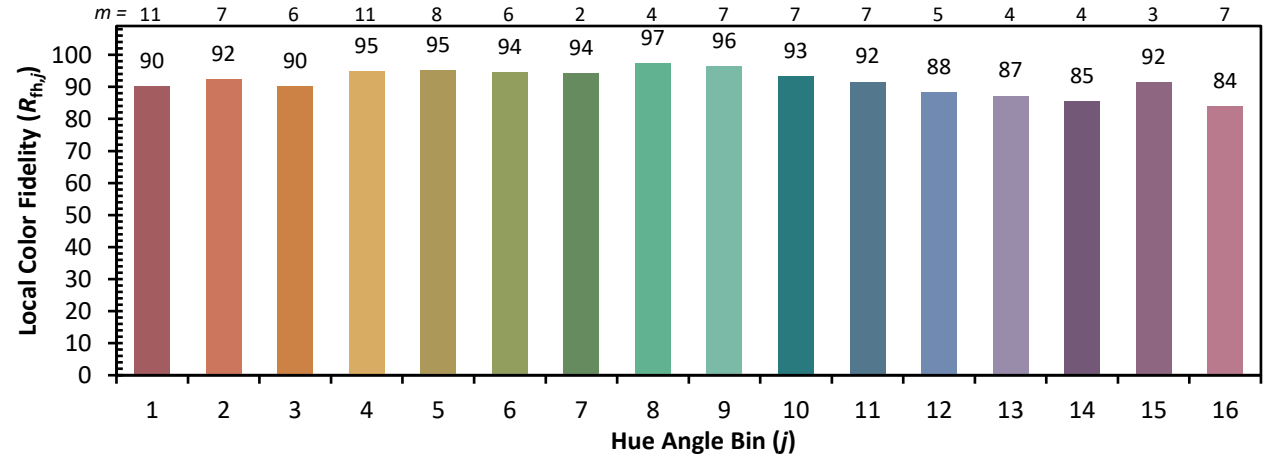
Color Rendition by Hue-Angle Bin







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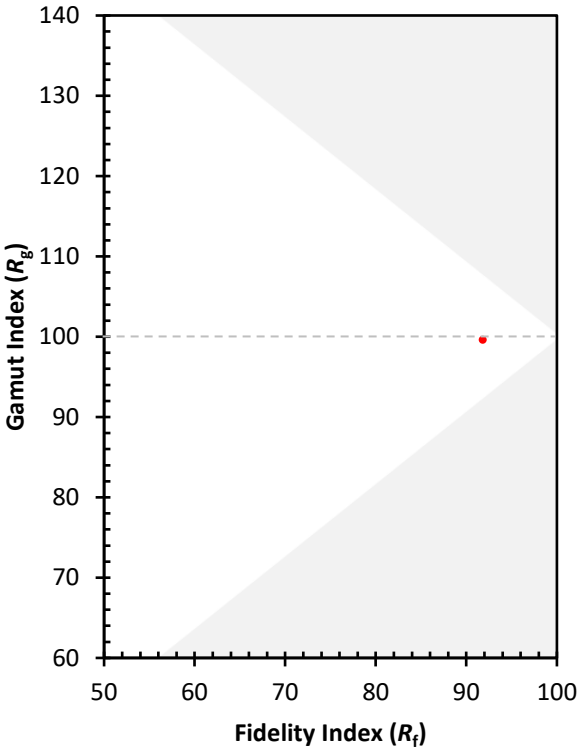
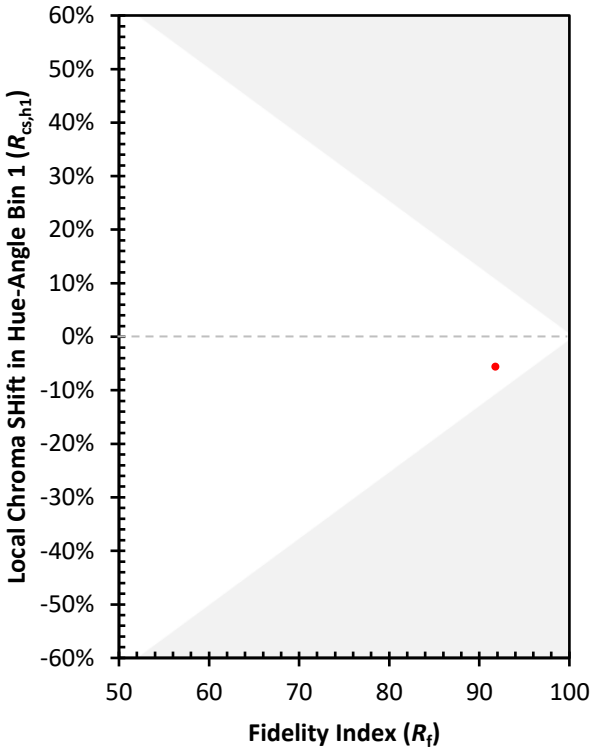
Measure Comparisons





(END OF REPORT)