Signify Classified - Internal

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: P1559255

Luminaire Tested: 22CGTX-25-B2750-W2D-5000K

Issue Date: 8/30/2026

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:	P1559255
	TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G3-2510-581-18)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	8/30/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	22CGTX-25-B2750-W2D-5000K
Description:	2X2 2500 LUMEN CGTX TROFFER WITH BIO UP LEDS AT 5000K CCT WITH FROSTED SMOOTH l
Light Source:	5000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2808.3 lumens
Efficiency:	N/A
Efficacy:	111.4 lumens/watt
Spacing Criteria (0/90/45):	1.26 / 1.26 / 1.38
Luminous Opening:	Rectangular (W 2' x L: 2' x H: 0')
CIE Type:	Direct
Input Watts (W):	25.2
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

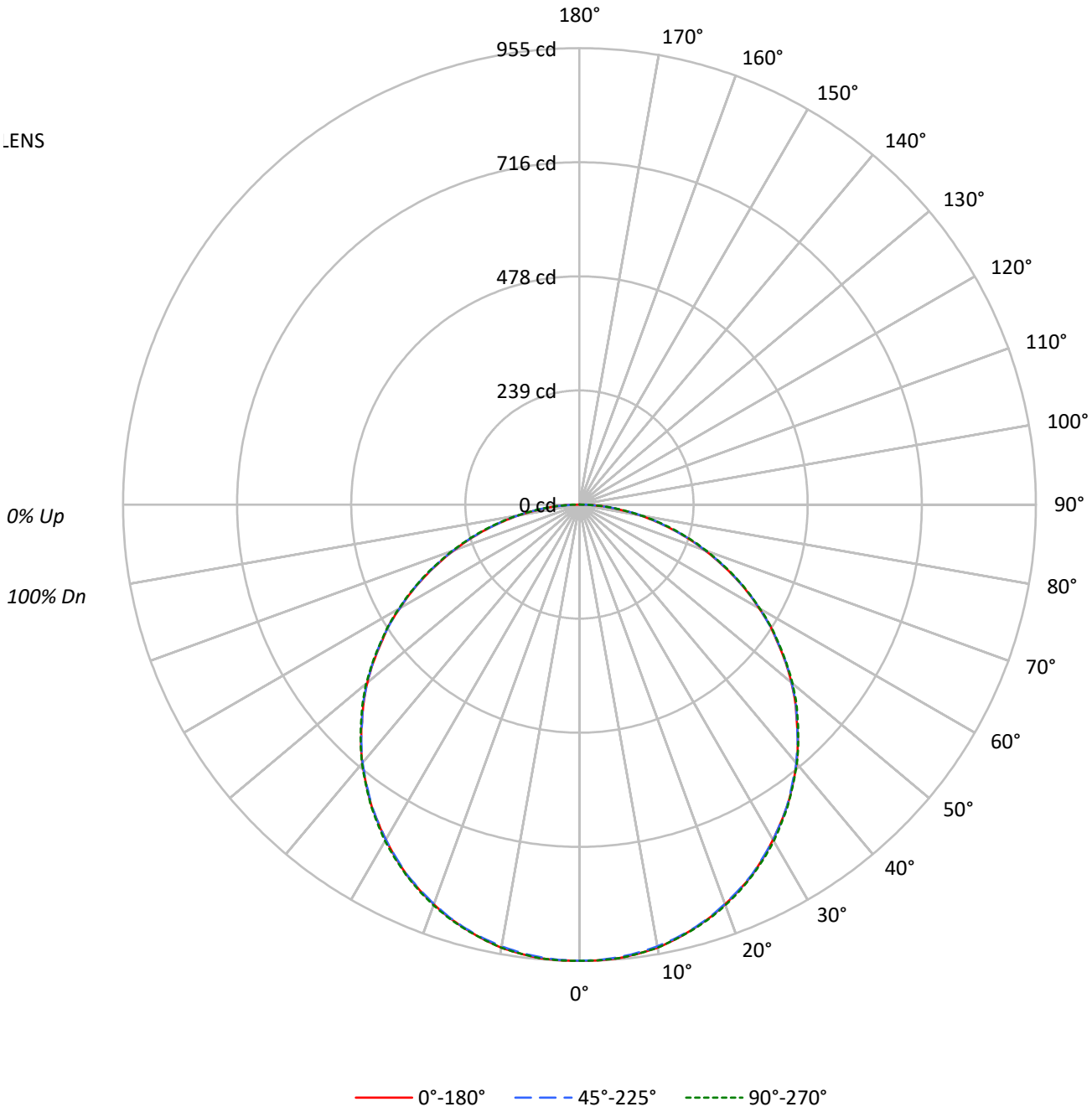


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Scaled Data Report

TEST NUMBER: P1559255
CATALOG NUMBER: 22CGTX-25-B2750-W2D-5000K

Luminous Intensity Polar Plot



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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	94	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	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	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	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	37	30	25	36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2569	2569	2569
5°	2573	2568	2573
10°	2573	2565	2573
15°	2562	2559	2565
20°	2550	2547	2556
25°	2540	2537	2542
30°	2517	2517	2527
35°	2503	2500	2507
40°	2483	2479	2486
45°	2449	2449	2460
50°	2425	2425	2438
55°	2379	2388	2393
60°	2334	2340	2350
65°	2276	2282	2295
70°	2188	2204	2220
75°	2098	2109	2140
80°	1976	2007	2022
85°	1735	1766	1859

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
Vertical Angle: 45°
Luminance: 2460 cd/sqm

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Scaled Data Report

TEST NUMBER: P1559255
CATALOG NUMBER: 22CGTX-25-B2750-W2D-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	3.2
10°-20°	259.5	9.2
20°-30°	393.7	14.0
30°-40°	476.4	17.0
40°-50°	497.8	17.7
50°-60°	455.3	16.2
60°-70°	354.7	12.6
70°-80°	215.2	7.7
80°-90°	65.2	2.3
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°	743.7	26.5
0°-40°	1220.0	43.4
0°-60°	2173.2	77.4
0°-90°	2808.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2808.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	955	955	955	955	955	
5°	953	952	951	952	953	91
15°	920	919	919	920	921	260
25°	855	854	854	854	856	394
35°	762	761	761	762	763	476
45°	644	646	644	646	646	497
55°	507	508	509	511	510	454
65°	357	357	358	360	360	353
75°	202	202	203	205	206	213
85°	56	56	57	58	60	64
90°	0	0	0	0	0	

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TEST NUMBER: P1559255
CATALOG NUMBER: 22CGTX-25-B2750-W2D-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*954.7*	*954.7*	*954.7*	*954.7*	*954.7*
2.5°	*954.7*	953.7	953.7	954.7	954.7
5°	*952.7*	951.7	950.7	951.7	952.7
7.5°	*947.7*	946.7	945.7	946.7	947.7
10°	*941.7*	939.7	938.6	940.7	941.7
12.5°	*931.6*	930.6	929.6	930.6	931.6
15°	*919.6*	918.6	918.6	919.6	920.6
17.5°	*906.5*	905.5	905.5	906.5	907.5
20°	*890.5*	890.5	889.5	891.5	892.5
22.5°	*873.4*	872.4	872.4	873.4	875.4
25°	*855.3*	854.3	854.3	854.3	856.3
27.5°	*833.2*	832.2	832.2	834.2	835.2
30°	*810.1*	811.2	810.1	811.2	813.2
32.5°	*786.1*	787.1	786.1	788.1	788.1
35°	*762.0*	761.0	761.0	762.0	763.0
37.5°	*733.9*	733.9	732.8	734.9	734.9
40°	*706.7*	705.7	705.7	706.7	707.8
42.5°	*676.6*	675.6	675.6	677.6	677.6
45°	*643.5*	645.5	643.5	645.5	646.5
47.5°	*612.4*	612.4	613.4	615.4	615.4
50°	*579.3*	579.3	579.3	580.3	582.3
52.5°	*544.1*	545.1	545.1	547.1	546.1
55°	*507.0*	508.0	509.0	511.0	510.0
57.5°	*473.8*	472.8	472.8	473.8	474.8
60°	*433.7*	434.7	434.7	435.7	436.7
62.5°	*396.5*	395.5	397.5	399.6	398.5
65°	*357.4*	357.4	358.4	360.4	360.4
67.5°	*318.2*	317.2	319.2	321.2	321.2
70°	*278.1*	278.1	280.1	283.1	282.1
72.5°	*240.9*	239.9	241.9	243.9	245.0
75°	*201.8*	201.8	202.8	204.8	205.8
77.5°	*163.6*	163.6	165.6	167.7	168.7
80°	*127.5*	126.5	129.5	130.5	130.5
82.5°	*90.4*	91.4	92.4	93.4	93.4
85°	*56.2*	56.2	57.2	58.2	60.2
87.5°	*24.1*	24.1	26.1	26.1	27.1
90°	*0.0*	0.0	0.0	0.0	0.0

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TEST NUMBER: P1559255
CATALOG NUMBER: 22CGTX-25-B2750-W2D-5000K

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	15.21	16.87	15.57	17.18	17.49	15.22	16.88	15.58	17.20	17.51
	3H	17.09	18.60	17.47	18.92	19.28	17.14	18.65	17.52	18.97	19.33
	4H	17.84	19.26	18.23	19.60	19.98	17.90	19.32	18.30	19.67	20.04
	6H	18.41	19.73	18.82	20.09	20.48	18.50	19.82	18.91	20.18	20.57
	8H	18.61	19.87	19.03	20.26	20.65	18.70	19.96	19.12	20.35	20.75
	12H	18.74	19.95	19.17	20.33	20.76	18.85	20.06	19.28	20.44	20.87
4H	2H	15.87	17.29	16.27	17.64	18.01	15.88	17.30	16.28	17.65	18.02
	3H	17.98	19.18	18.39	19.58	19.98	18.03	19.23	18.44	19.62	20.02
	4H	18.86	19.95	19.29	20.36	20.79	18.93	20.01	19.36	20.42	20.86
	6H	19.58	20.53	20.03	20.97	21.42	19.67	20.62	20.12	21.06	21.51
	8H	19.83	20.72	20.29	21.16	21.62	19.93	20.82	20.38	21.26	21.72
	12H	20.01	20.82	20.49	21.29	21.76	20.13	20.93	20.60	21.40	21.87
8H	4H	19.22	20.11	19.68	20.55	21.02	19.28	20.17	19.74	20.61	21.07
	6H	20.07	20.81	20.56	21.30	21.77	20.16	20.90	20.65	21.38	21.86
	8H	20.41	21.07	20.91	21.58	22.06	20.50	21.17	21.01	21.67	22.16
	12H	20.68	21.27	21.18	21.76	22.31	20.79	21.38	21.29	21.87	22.42
12H	4H	19.27	20.07	19.75	20.55	21.01	19.32	20.12	19.80	20.60	21.07
	6H	20.15	20.82	20.66	21.32	21.81	20.23	20.90	20.74	21.40	21.89
	8H	20.55	21.14	21.05	21.63	22.19	20.64	21.23	21.14	21.72	22.28

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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: SP1-2510-581-14-R2

Test Date: 02/04/2026

Luminaire Tested: 24CGTX-45-B2750-W2D-5000K

Data in this report applies to families of products including 24CGTX-45-UNV

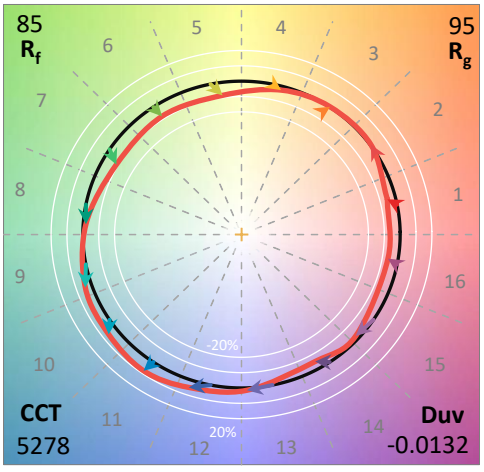
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2510-581-14-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-5000K**
Description:	*THIS IS A REVISION OF REPORT SP1-2510-581-14-R2 TO UPDATE THE CATALOG INFORMATION* 2X4 CGTX 4500 lumen with BioUp Boards - 6500K

Spectral Parameters

CCT (K):	5278	CRI (Ra):	84.0		
CIE u':	0.2184	R1:	90.0	R9:	81.1
CIE v':	0.4670	R2:	84.5	R10:	70.3
Duv:	-0.0132	R3:	81.1	R11:	85.7
CIE x:	0.3366	R4:	85.2	R12:	68.5
CIE y:	0.3199	R5:	87.9	R13:	87.9
CIE z:	0.3435	R6:	78.8	R14:	91.1
Peak Wavelength (nm):	474	R7:	80.9	R15:	92.2
Dominant Wavelength (nm):	0	R8:	83.2		
Purity:	0				
Rf:	85				
Rg:	94.8				



Test Conditions

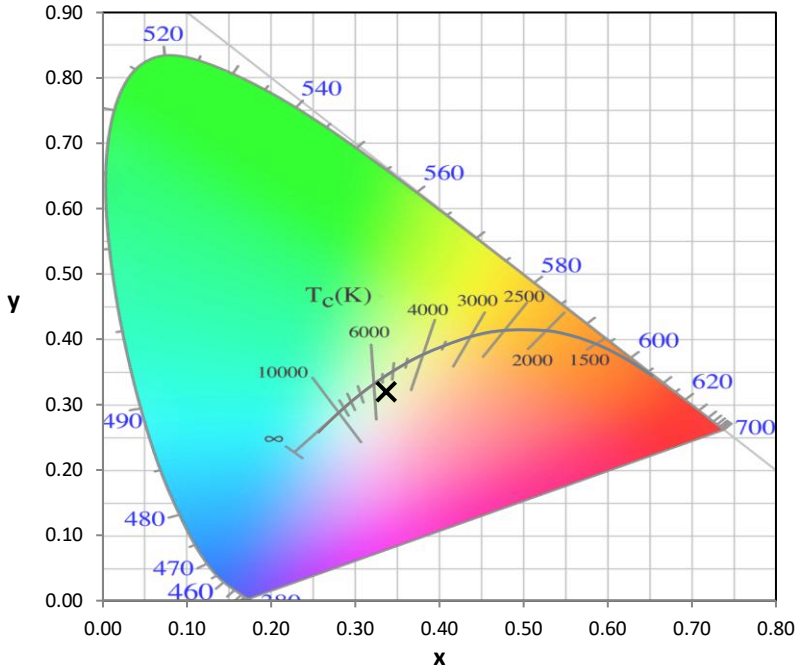
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	25.1

REPORT NUMBER: SP1-2510-581-14-R2

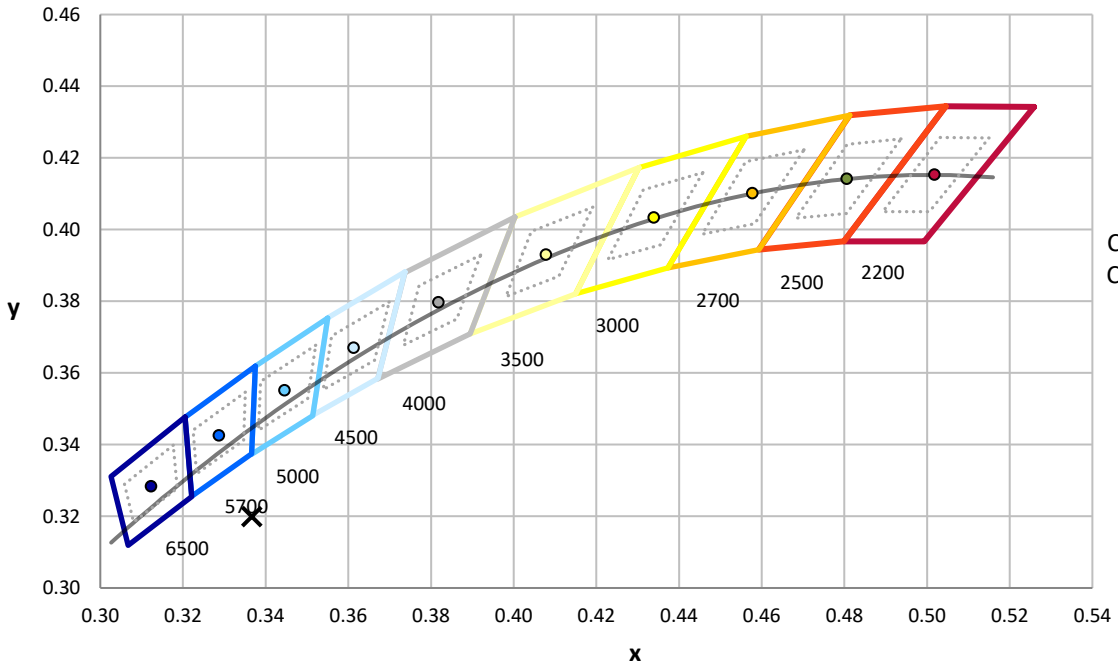
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	10/21/2025	10/21/2026
Sphere Thermometer	ONSET IN0085	10/21/2025	10/21/2026
Room Thermometer	ONSET IN0046	10/21/2025	10/21/2026

REPORT NUMBER: SP1-2510-581-14-R2

CIE 1931 Chromaticity Diagram



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

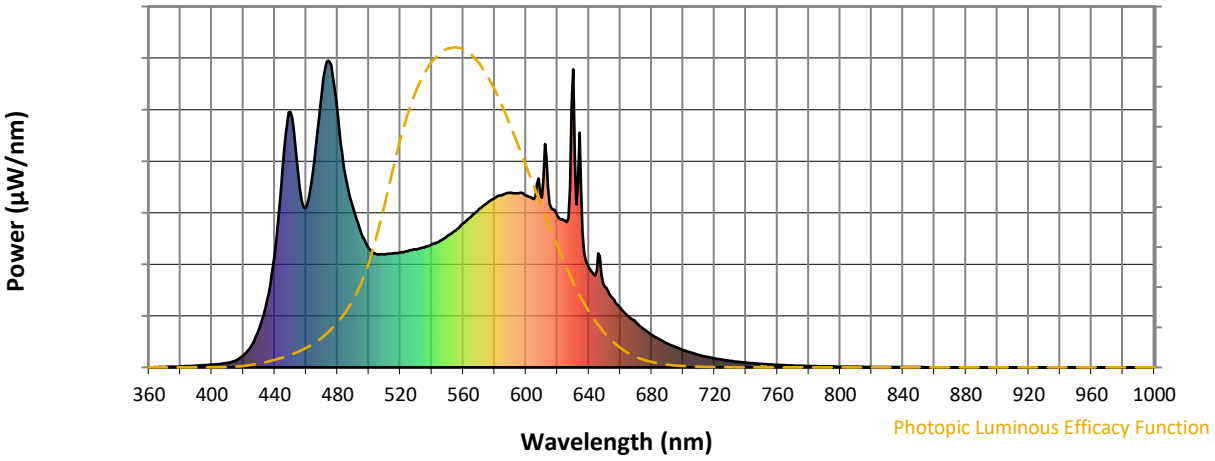


CCT = 5278K
CIE x = 0.3366
CIE y = 0.3199
Duv = -0.0132

Point lies outside the range

REPORT NUMBER: SP1-2510-581-14-R2

Photopic Flux vs. Wavelength

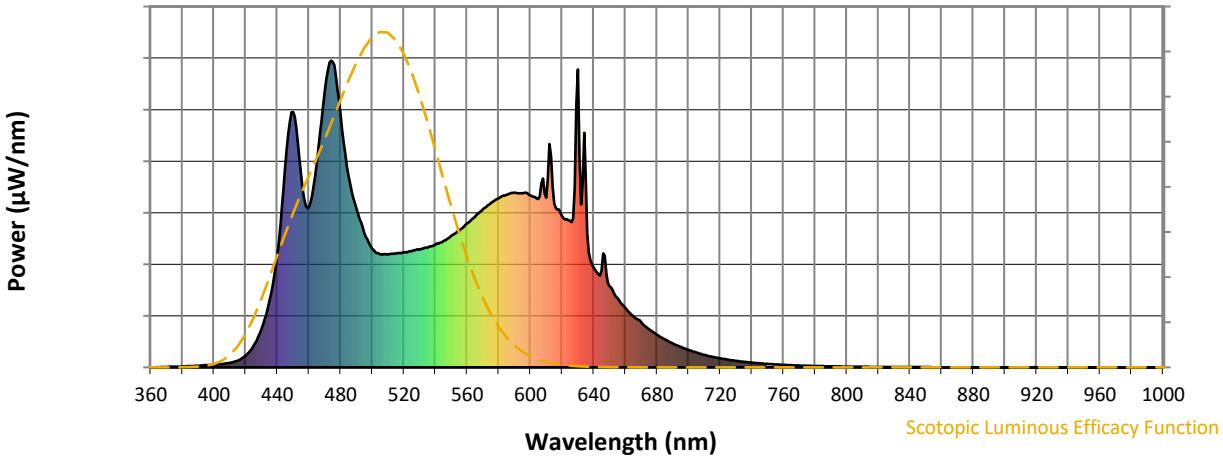


Photopic Lumens: NR

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	518	NR	620	494	NR	750	11	NR	880	0	NR
365	0	NR	495	440	NR	625	478	NR	755	10	NR	885	0	NR
370	1	NR	500	387	NR	630	971	NR	760	8	NR	890	0	NR
375	2	NR	505	368	NR	635	598	NR	765	7	NR	895	0	NR
380	3	NR	510	368	NR	640	326	NR	770	6	NR	900	0	NR
385	4	NR	515	371	NR	645	316	NR	775	5	NR	905	0	NR
390	5	NR	520	374	NR	650	264	NR	780	4	NR	910	0	NR
395	7	NR	525	379	NR	655	226	NR	785	4	NR	915	0	NR
400	9	NR	530	384	NR	660	194	NR	790	3	NR	920	0	NR
405	11	NR	535	390	NR	665	167	NR	795	3	NR	925	0	NR
410	15	NR	540	401	NR	670	148	NR	800	2	NR	930	0	NR
415	22	NR	545	412	NR	675	124	NR	805	2	NR	935	0	NR
420	39	NR	550	429	NR	680	107	NR	810	2	NR	940	0	NR
425	70	NR	555	445	NR	685	91	NR	815	2	NR	945	0	NR
430	124	NR	560	469	NR	690	78	NR	820	1	NR	950	0	NR
435	217	NR	565	491	NR	695	67	NR	825	1	NR	955	0	NR
440	368	NR	570	515	NR	700	57	NR	830	1	NR	960	0	NR
445	652	NR	575	535	NR	705	48	NR	835	1	NR	965	0	NR
450	832	NR	580	552	NR	710	41	NR	840	1	NR	970	0	NR
455	627	NR	585	563	NR	715	34	NR	845	1	NR	975	0	NR
460	522	NR	590	569	NR	720	29	NR	850	1	NR	980	0	NR
465	665	NR	595	567	NR	725	25	NR	855	1	NR	985	0	NR
470	901	NR	600	560	NR	730	21	NR	860	0	NR	990	0	NR
475	996	NR	605	549	NR	735	18	NR	865	0	NR	995	0	NR
480	828	NR	610	553	NR	740	15	NR	870	0	NR	1000	0	NR
485	625	NR	615	534	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2510-581-14-R2

Scotopic Flux vs. Wavelength

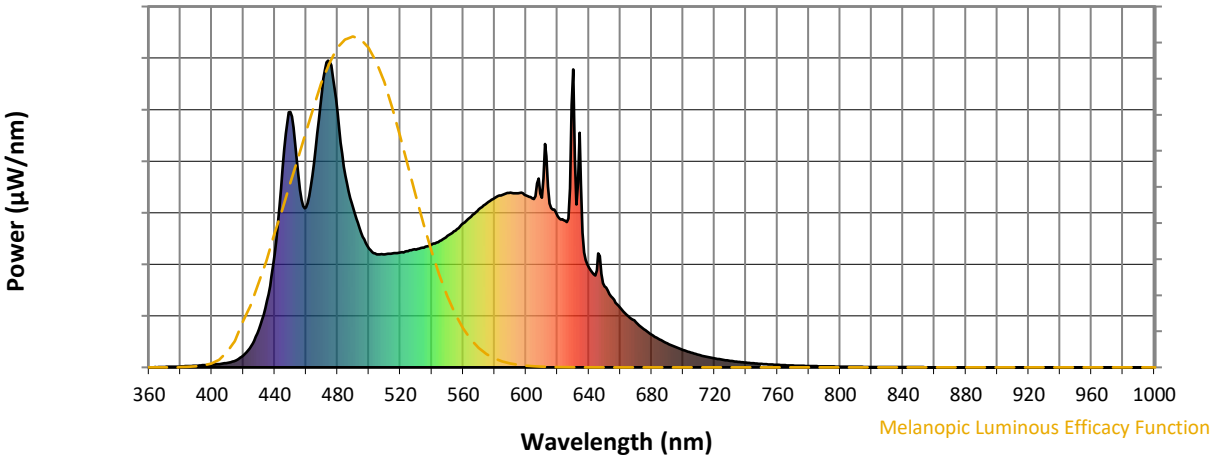


Scotopic Lumens: NR **S/P: 2.36**

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	518	NR	620	494	NR	750	11	NR	880	0	NR
365	0	NR	495	440	NR	625	478	NR	755	10	NR	885	0	NR
370	1	NR	500	387	NR	630	971	NR	760	8	NR	890	0	NR
375	2	NR	505	368	NR	635	598	NR	765	7	NR	895	0	NR
380	3	NR	510	368	NR	640	326	NR	770	6	NR	900	0	NR
385	4	NR	515	371	NR	645	316	NR	775	5	NR	905	0	NR
390	5	NR	520	374	NR	650	264	NR	780	4	NR	910	0	NR
395	7	NR	525	379	NR	655	226	NR	785	4	NR	915	0	NR
400	9	NR	530	384	NR	660	194	NR	790	3	NR	920	0	NR
405	11	NR	535	390	NR	665	167	NR	795	3	NR	925	0	NR
410	15	NR	540	401	NR	670	148	NR	800	2	NR	930	0	NR
415	22	NR	545	412	NR	675	124	NR	805	2	NR	935	0	NR
420	39	NR	550	429	NR	680	107	NR	810	2	NR	940	0	NR
425	70	NR	555	445	NR	685	91	NR	815	2	NR	945	0	NR
430	124	NR	560	469	NR	690	78	NR	820	1	NR	950	0	NR
435	217	NR	565	491	NR	695	67	NR	825	1	NR	955	0	NR
440	368	NR	570	515	NR	700	57	NR	830	1	NR	960	0	NR
445	652	NR	575	535	NR	705	48	NR	835	1	NR	965	0	NR
450	832	NR	580	552	NR	710	41	NR	840	1	NR	970	0	NR
455	627	NR	585	563	NR	715	34	NR	845	1	NR	975	0	NR
460	522	NR	590	569	NR	720	29	NR	850	1	NR	980	0	NR
465	665	NR	595	567	NR	725	25	NR	855	1	NR	985	0	NR
470	901	NR	600	560	NR	730	21	NR	860	0	NR	990	0	NR
475	996	NR	605	549	NR	735	18	NR	865	0	NR	995	0	NR
480	828	NR	610	553	NR	740	15	NR	870	0	NR	1000	0	NR
485	625	NR	615	534	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2510-581-14-R2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 5.57**

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	518	NR	620	494	NR	750	11	NR	880	0	NR
365	0	NR	495	440	NR	625	478	NR	755	10	NR	885	0	NR
370	1	NR	500	387	NR	630	971	NR	760	8	NR	890	0	NR
375	2	NR	505	368	NR	635	598	NR	765	7	NR	895	0	NR
380	3	NR	510	368	NR	640	326	NR	770	6	NR	900	0	NR
385	4	NR	515	371	NR	645	316	NR	775	5	NR	905	0	NR
390	5	NR	520	374	NR	650	264	NR	780	4	NR	910	0	NR
395	7	NR	525	379	NR	655	226	NR	785	4	NR	915	0	NR
400	9	NR	530	384	NR	660	194	NR	790	3	NR	920	0	NR
405	11	NR	535	390	NR	665	167	NR	795	3	NR	925	0	NR
410	15	NR	540	401	NR	670	148	NR	800	2	NR	930	0	NR
415	22	NR	545	412	NR	675	124	NR	805	2	NR	935	0	NR
420	39	NR	550	429	NR	680	107	NR	810	2	NR	940	0	NR
425	70	NR	555	445	NR	685	91	NR	815	2	NR	945	0	NR
430	124	NR	560	469	NR	690	78	NR	820	1	NR	950	0	NR
435	217	NR	565	491	NR	695	67	NR	825	1	NR	955	0	NR
440	368	NR	570	515	NR	700	57	NR	830	1	NR	960	0	NR
445	652	NR	575	535	NR	705	48	NR	835	1	NR	965	0	NR
450	832	NR	580	552	NR	710	41	NR	840	1	NR	970	0	NR
455	627	NR	585	563	NR	715	34	NR	845	1	NR	975	0	NR
460	522	NR	590	569	NR	720	29	NR	850	1	NR	980	0	NR
465	665	NR	595	567	NR	725	25	NR	855	1	NR	985	0	NR
470	901	NR	600	560	NR	730	21	NR	860	0	NR	990	0	NR
475	996	NR	605	549	NR	735	18	NR	865	0	NR	995	0	NR
480	828	NR	610	553	NR	740	15	NR	870	0	NR	1000	0	NR
485	625	NR	615	534	NR	745	13	NR	875	0	NR			

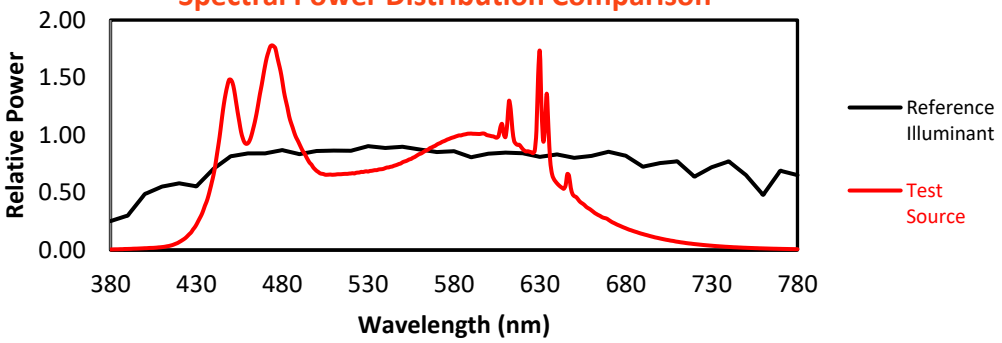
REPORT NUMBER: SP1-2510-581-14-R2

TM-30-18

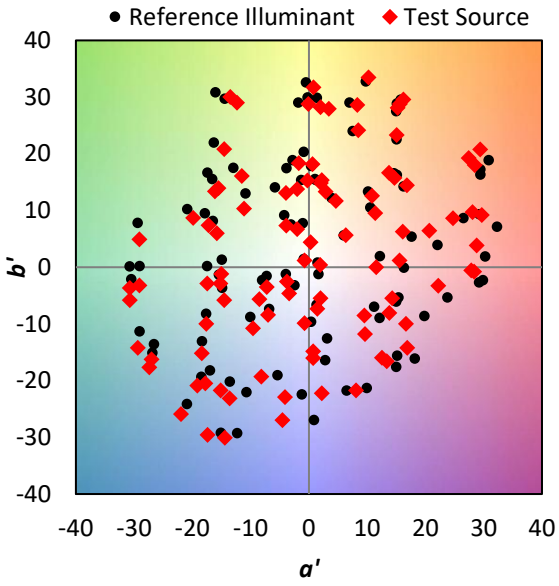
Summary

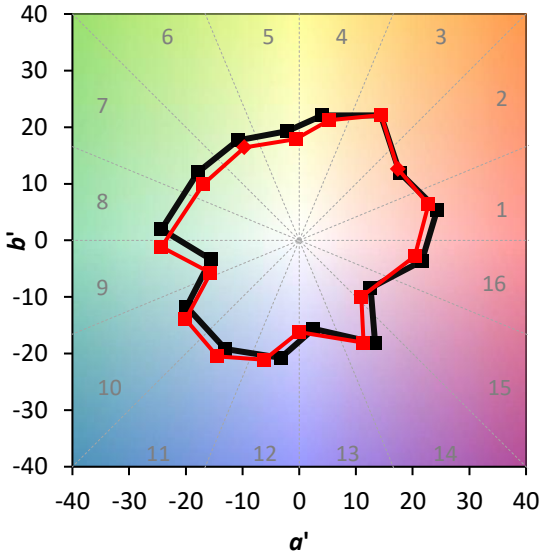
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R_g = 94.8
CIE R_a = 84.0
R_9 = 81.1

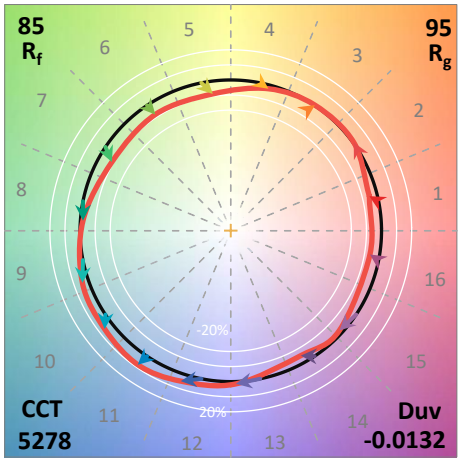
Spectral Power Distribution Comparison

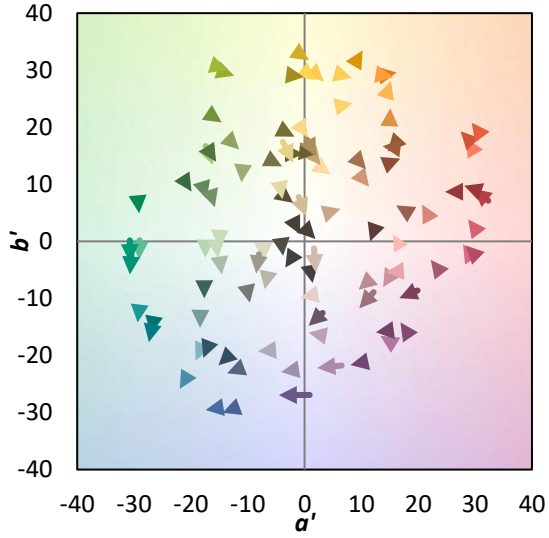


Color Vector Graphics







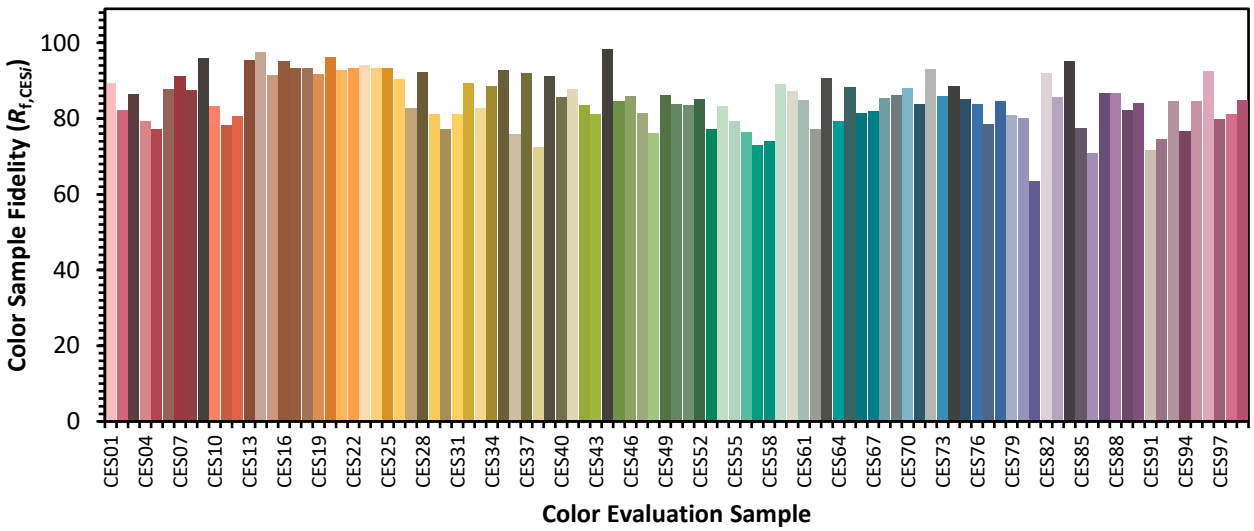


REPORT NUMBER: SP1-2510-581-14-R2

TM-30-18

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

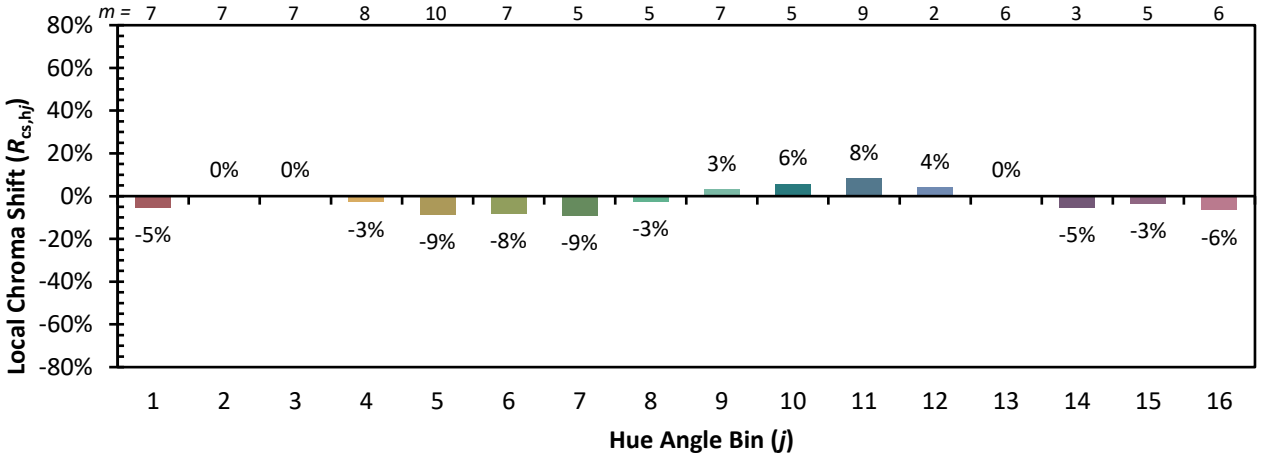
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CES02 = 61	CES27 = 83	CES52 = 85	CES77 = 79
CES03 = 31	CES28 = 92	CES53 = 77	CES78 = 84
CES04 = 69	CES29 = 81	CES54 = 83	CES79 = 81
CES05 = 48	CES30 = 77	CES55 = 79	CES80 = 80
CES06 = 50	CES31 = 81	CES56 = 76	CES81 = 63
CES07 = 41	CES32 = 89	CES57 = 73	CES82 = 92
CES08 = 40	CES33 = 83	CES58 = 74	CES83 = 86
CES09 = 29	CES34 = 89	CES59 = 89	CES84 = 95
CES10 = 74	CES35 = 93	CES60 = 87	CES85 = 77
CES11 = 57	CES36 = 76	CES61 = 85	CES86 = 71
CES12 = 63	CES37 = 92	CES62 = 77	CES87 = 87
CES13 = 43	CES38 = 72	CES63 = 91	CES88 = 87
CES14 = 74	CES39 = 91	CES64 = 79	CES89 = 82
CES15 = 71	CES40 = 86	CES65 = 88	CES90 = 84
CES16 = 47	CES41 = 88	CES66 = 81	CES91 = 72
CES17 = 49	CES42 = 83	CES67 = 82	CES92 = 74
CES18 = 56	CES43 = 81	CES68 = 86	CES93 = 85
CES19 = 71	CES44 = 98	CES69 = 86	CES94 = 77
CES20 = 65	CES45 = 85	CES70 = 88	CES95 = 85
CES21 = 85	CES46 = 86	CES71 = 84	CES96 = 92
CES22 = 77	CES47 = 82	CES72 = 93	CES97 = 80
CES23 = 91	CES48 = 76	CES73 = 86	CES98 = 81
CES24 = 90	CES49 = 86	CES74 = 89	CES99 = 85
CES25 = 70	CES50 = 84	CES75 = 85	

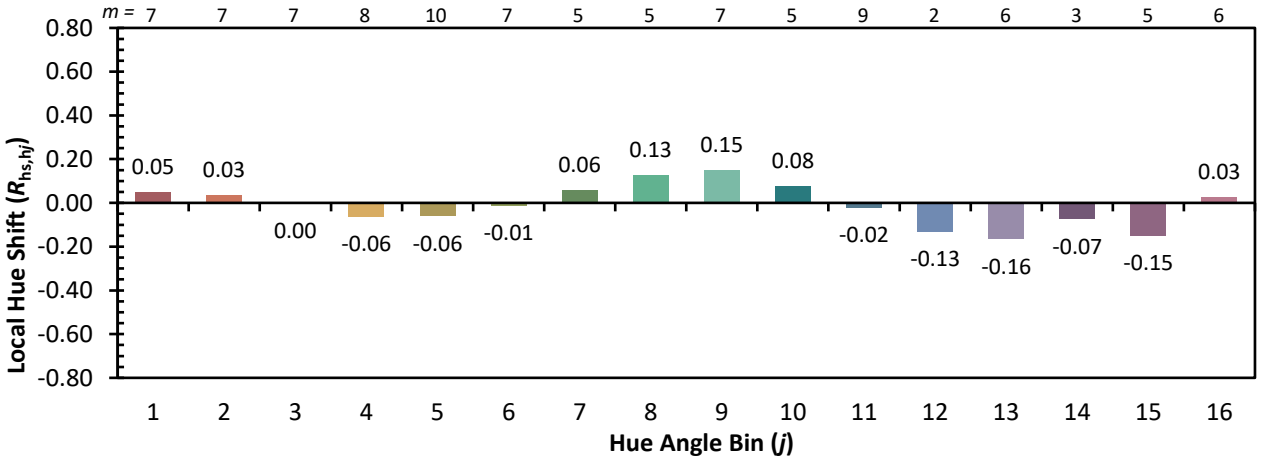


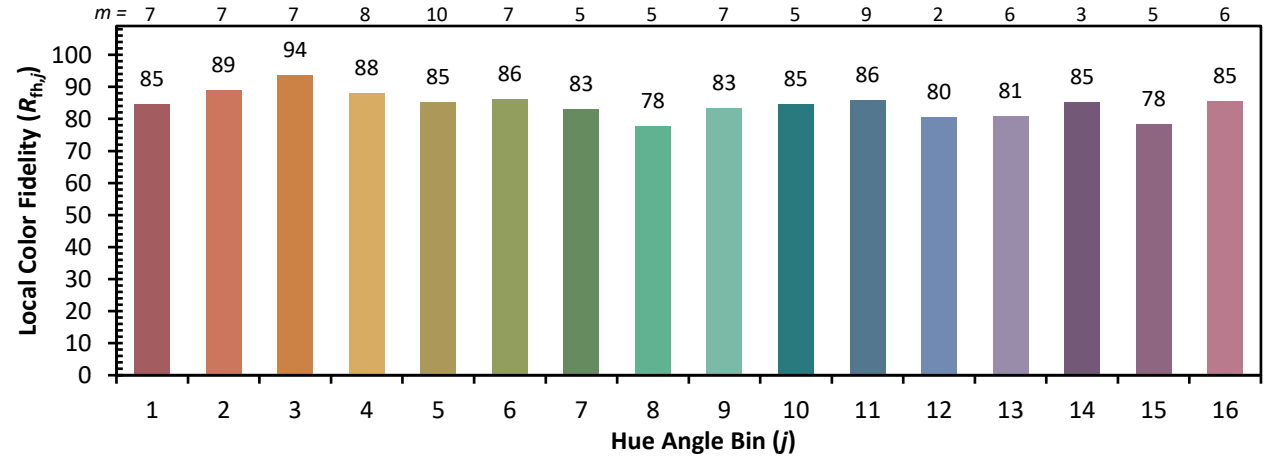
REPORT NUMBER: SP1-2510-581-14-R2

TM-30-18

Color Rendition by Hue-Angle Bin



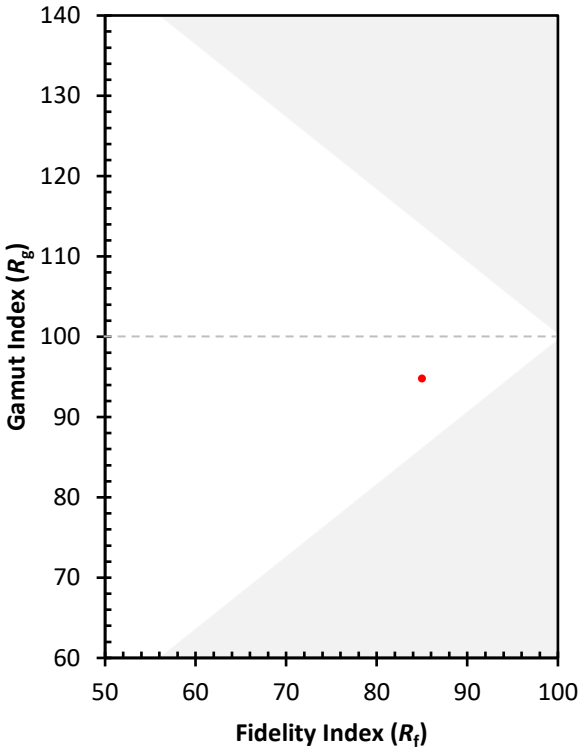


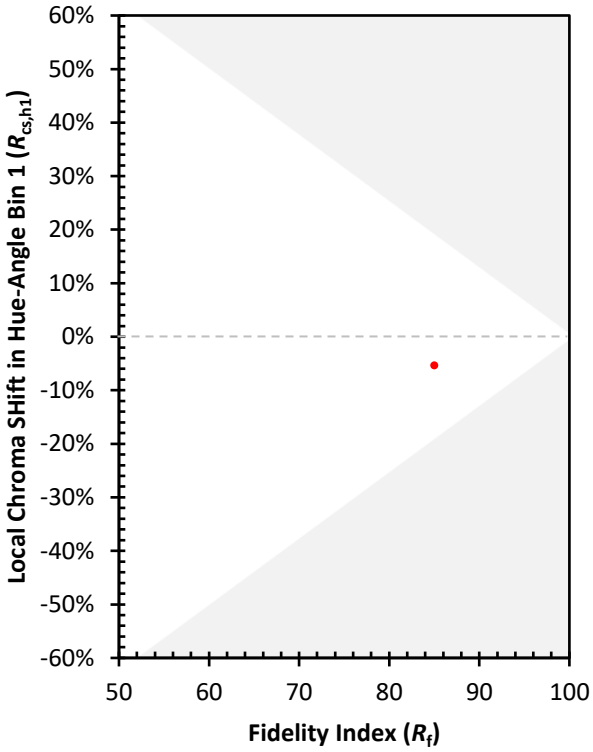


REPORT NUMBER: SP1-2510-581-14-R2

TM-30-18

Measure Comparisons





(END OF REPORT)