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: P1590744

Luminaire Tested: 22CGTX-45-L92765-W2A-2700K

Issue Date: 9/7/2026

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:	P1590744
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	9/7/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	22CGTX-45-L92765-W2A-2700K
Description:	2X2 4500 LUMEN CGTX TROFFER WITH VividTune LEDS AT 2700K CCT WITH FROSTED SMOOTH LENS
Light Source:	2700K CCT, 90 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4434.1 lumens
Efficiency:	N/A
Efficacy:	93.7 lumens/watt
Spacing Criteria (0/90/45):	1.25 / 1.26 / 1.38
Luminous Opening:	Rectangular (W 1.81' x L: 3.83' x H: 0')
CIE Type:	Direct
Input Watts (W):	47.3
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

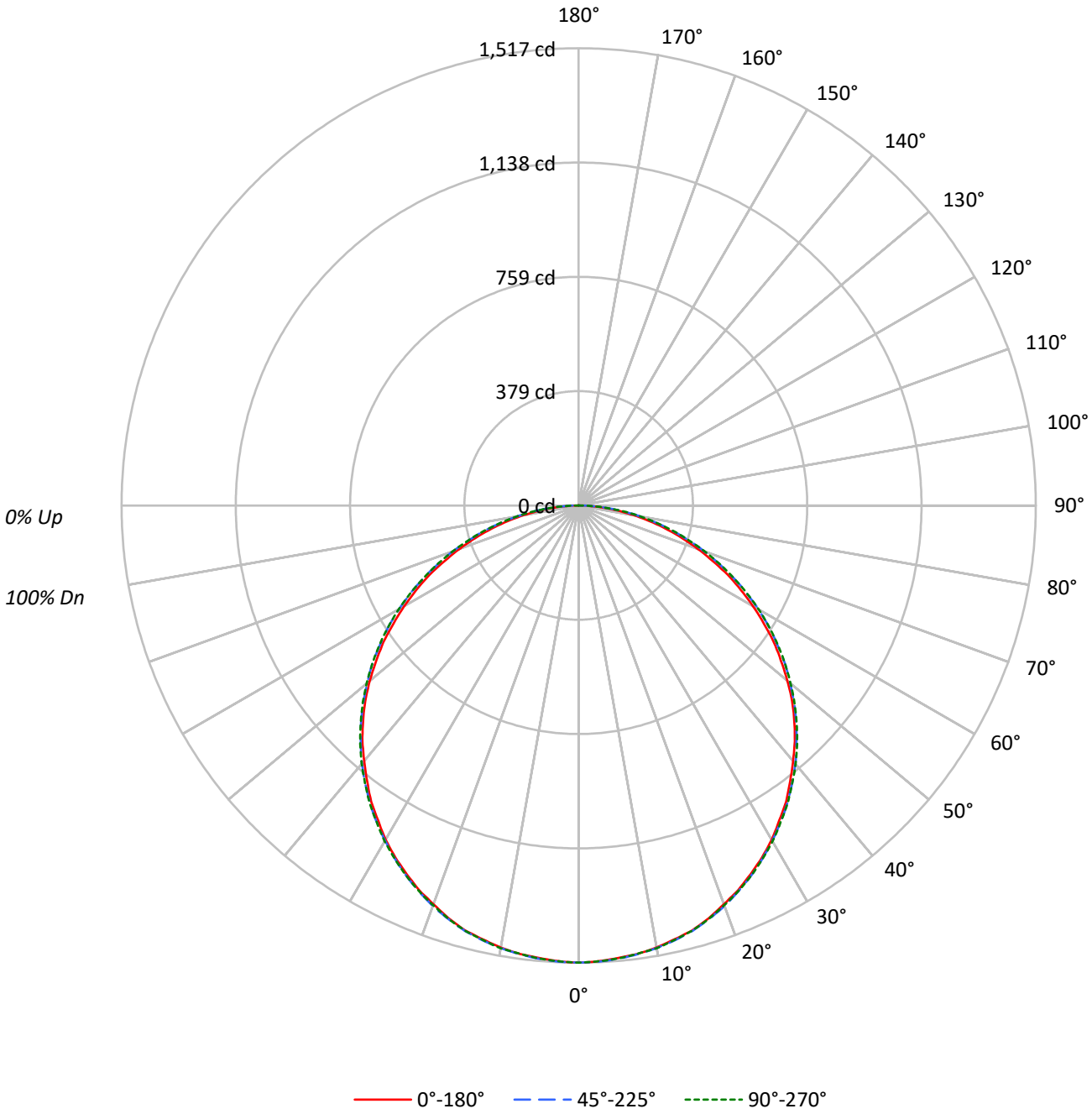


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TEST NUMBER: P1590744
CATALOG NUMBER: 22CGTX-45-L92765-W2A-2700K

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	77	73	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	80	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	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2350	2350	2350
5°	2344	2348	2347
10°	2342	2346	2347
15°	2340	2343	2342
20°	2321	2333	2328
25°	2308	2316	2316
30°	2292	2299	2302
35°	2270	2283	2285
40°	2239	2263	2265
45°	2217	2237	2241
50°	2179	2208	2213
55°	2136	2174	2180
60°	2070	2132	2138
65°	2002	2075	2075
70°	1902	2007	2011
75°	1790	1921	1933
80°	1642	1820	1829
85°	1369	1671	1671

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
Vertical Angle: 45°
Luminance: 2241 cd/sqm

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Scaled Data Report

TEST NUMBER: P1590744
CATALOG NUMBER: 22CGTX-45-L92765-W2A-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.5	3.2
10°-20°	411.9	9.3
20°-30°	624.3	14.1
30°-40°	753.8	17.0
40°-50°	786.2	17.7
50°-60°	716.7	16.2
60°-70°	556.6	12.6
70°-80°	337.3	7.6
80°-90°	103.8	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°	1179.7	26.6
0°-40°	1933.5	43.6
0°-60°	3436.4	77.5
0°-90°	4434.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4434.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1517	1517	1517	1517	1517	
5°	1507	1510	1510	1510	1509	143
15°	1459	1460	1461	1460	1460	411
25°	1350	1355	1355	1356	1355	622
35°	1200	1204	1207	1206	1208	750
45°	1012	1017	1021	1022	1023	780
55°	791	799	805	805	807	705
65°	546	559	566	569	566	539
75°	299	317	321	325	323	317
85°	77	93	94	97	94	89
90°	0	0	0	0	0	

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TEST NUMBER: P1590744
CATALOG NUMBER: 22CGTX-45-L92765-W2A-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1517*	*1517*	*1517*	*1517*	*1517*
2.5°	*1514*	1515	1515	1514	1514
5°	*1507*	1510	1510	1510	1509
7.5°	*1501*	1503	1502	1503	1500
10°	*1489*	1491	1491	1492	1492
12.5°	*1474*	1477	1478	1478	1476
15°	*1459*	1460	1461	1460	1460
17.5°	*1436*	1439	1439	1439	1438
20°	*1408*	1414	1415	1414	1412
22.5°	*1382*	1387	1386	1388	1385
25°	*1350*	1355	1355	1356	1355
27.5°	*1317*	1321	1321	1322	1322
30°	*1281*	1284	1285	1285	1287
32.5°	*1239*	1245	1247	1248	1247
35°	*1200*	1204	1207	1206	1208
37.5°	*1153*	1160	1163	1164	1164
40°	*1107*	1114	1119	1119	1120
42.5°	*1062*	1066	1070	1072	1073
45°	*1012*	1017	1021	1022	1023
47.5°	*961*	966	970	971	972
50°	*904*	911	916	917	918
52.5°	*846*	857	863	862	863
55°	*791*	799	805	805	807
57.5°	*728*	741	748	749	749
60°	*668*	682	688	688	690
62.5°	*607*	622	628	631	628
65°	*546*	559	566	569	566
67.5°	*481*	498	503	507	505
70°	*420*	437	443	447	444
72.5°	*359*	377	381	387	383
75°	*299*	317	321	325	323
77.5°	*241*	261	262	266	263
80°	*184*	203	204	208	205
82.5°	*129*	147	148	152	148
85°	*77*	93	94	97	94
87.5°	*29*	42	43	45	43
90°	*0*	0	0	0	0

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TEST NUMBER: P1590744
CATALOG NUMBER: 22CGTX-45-L92765-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	14.80	16.46	15.17	16.77	17.09	14.90	16.56	15.26	16.87	17.18
	3H	16.65	18.15	17.02	18.48	18.84	16.81	18.31	17.19	18.64	19.00
	4H	17.36	18.77	17.75	19.12	19.50	17.56	18.98	17.96	19.33	19.70
	6H	17.90	19.21	18.31	19.58	19.97	18.16	19.47	18.57	19.84	20.23
	8H	18.07	19.33	18.50	19.72	20.12	18.36	19.62	18.79	20.01	20.41
	12H	18.19	19.39	18.62	19.78	20.20	18.51	19.72	18.94	20.10	20.53
4H	2H	15.48	16.90	15.88	17.25	17.62	15.56	16.98	15.95	17.32	17.70
	3H	17.57	18.76	17.98	19.16	19.56	17.70	18.90	18.11	19.29	19.69
	4H	18.42	19.51	18.85	19.92	20.35	18.60	19.68	19.03	20.09	20.53
	6H	19.11	20.06	19.57	20.50	20.95	19.33	20.28	19.79	20.72	21.17
	8H	19.35	20.23	19.80	20.67	21.14	19.60	20.49	20.06	20.93	21.39
	12H	19.51	20.31	19.99	20.78	21.25	19.80	20.60	20.28	21.08	21.54
8H	4H	18.80	19.68	19.26	20.13	20.59	18.95	19.84	19.41	20.28	20.74
	6H	19.64	20.38	20.13	20.86	21.34	19.83	20.57	20.32	21.05	21.53
	8H	19.96	20.63	20.47	21.13	21.61	20.18	20.85	20.69	21.35	21.84
	12H	20.21	20.80	20.72	21.29	21.85	20.48	21.07	20.98	21.56	22.12
12H	4H	18.85	19.65	19.33	20.12	20.59	18.99	19.79	19.47	20.27	20.74
	6H	19.72	20.39	20.23	20.89	21.38	19.90	20.57	20.41	21.07	21.56
	8H	20.11	20.70	20.62	21.19	21.75	20.32	20.91	20.83	21.40	21.96

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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: SP1-2510-566-2-R2

Test Date: 10/14/2025

Luminaire Tested: 22CGTX-50-L92765-W2A-2700K

Data in this report applies to families of products including 22CGTX

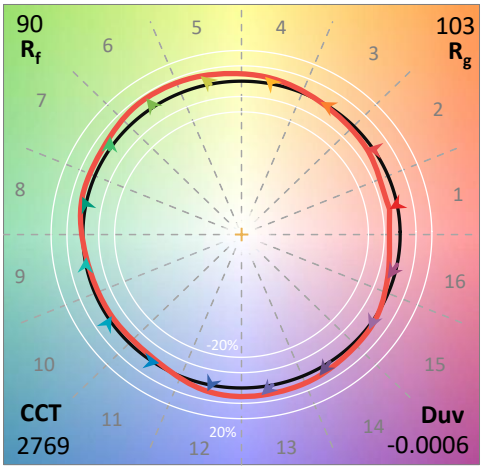
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Version: v7.05

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2510-566-2-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:	**22CGTX-50-L92765-W2A-2700K**
Description:	*THIS IS A REVISION OF REPORT SP1-2512-566-2-R2 TO UPDATE THE CATALOG INFORMATION* 2X2 50000 Lumen CGTX TUNABLE WHITE FROM 2700K TO 6500K - 9.5V

Spectral Parameters

CCT (K):	2769	CRI (Ra):	93.3		
CIE u':	0.2597	R1:	95.3	R9:	56.5
CIE v':	0.5252	R2:	96.1	R10:	89.8
Duv:	-0.0006	R3:	96.0	R11:	95.2
CIE x:	0.4534	R4:	94.8	R12:	89.7
CIE y:	0.4074	R5:	94.9	R13:	95.3
CIE z:	0.1392	R6:	97.1	R14:	96.4
Peak Wavelength (nm):	630	R7:	91.2	R15:	89.6
Dominant Wavelength (nm):	584	R8:	81.4		
Purity:	58.37672				
Rf:	89.8				
Rg:	102.5				



Test Conditions

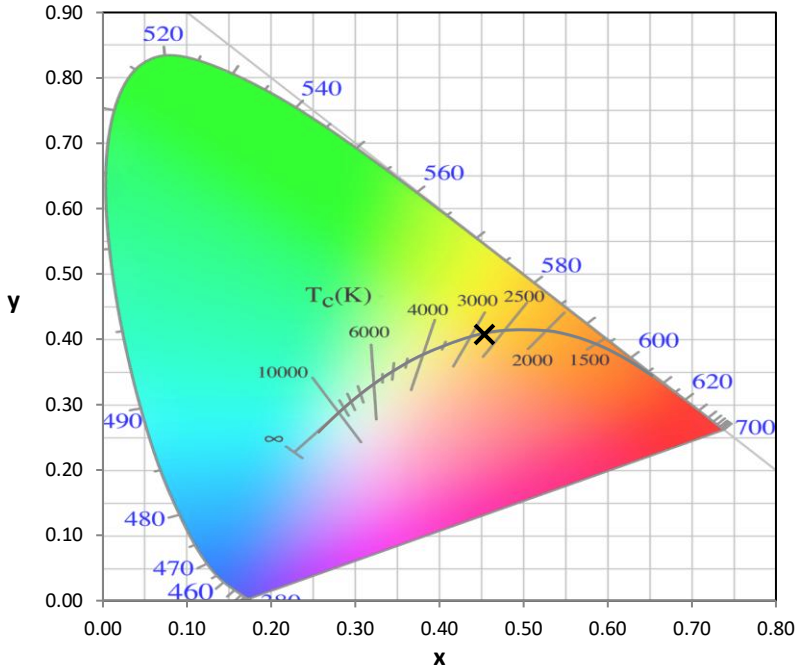
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2510-566-2-R2

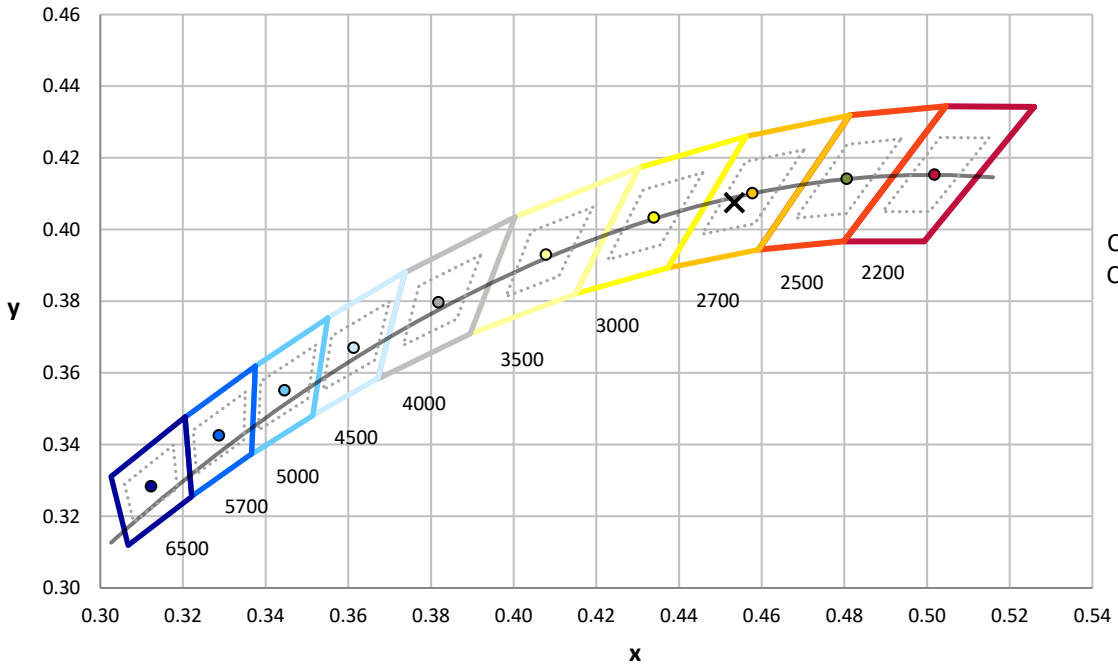
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2510-566-2-R2

CIE 1931 Chromaticity Diagram



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

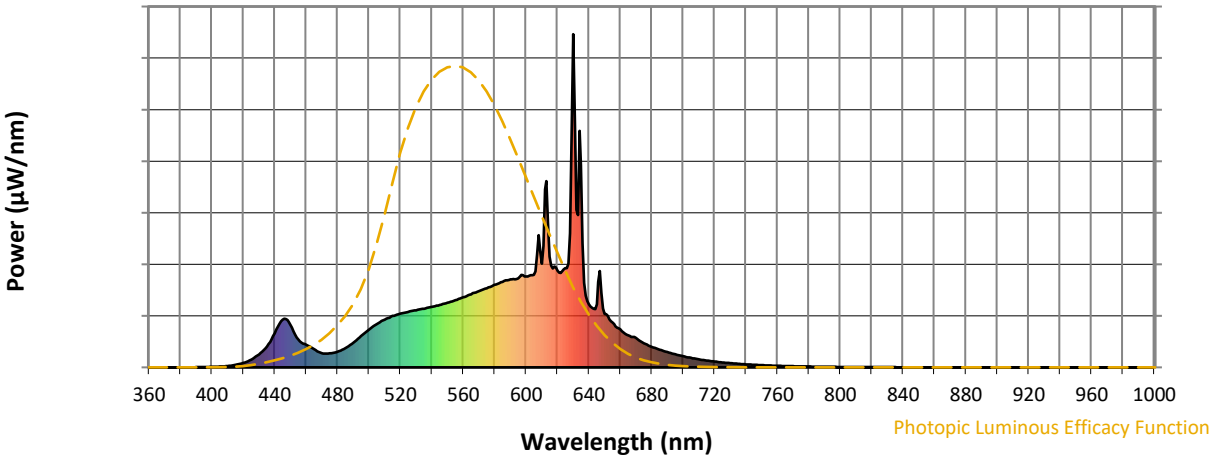


CCT = 2769K
CIE x = 0.4534
CIE y = 0.4074
Duv = -0.0006

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2510-566-2-R2

Photopic Flux vs. Wavelength

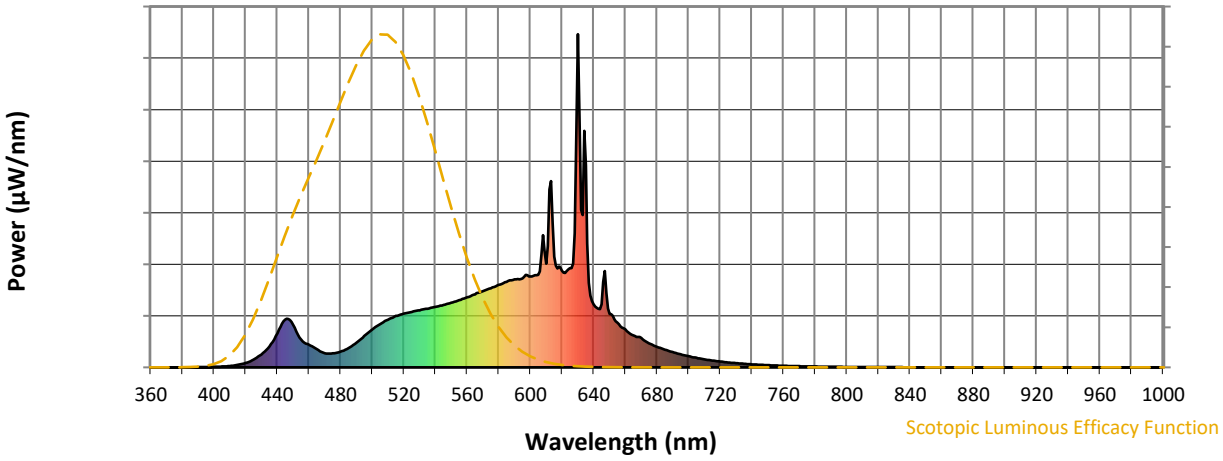


Photopic Lumens: NR

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	74	NR	620	290	NR	750	7	NR	880	0	NR
365	0	NR	495	94	NR	625	297	NR	755	6	NR	885	0	NR
370	0	NR	500	113	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	130	NR	635	606	NR	765	4	NR	895	0	NR
380	0	NR	510	143	NR	640	189	NR	770	3	NR	900	0	NR
385	0	NR	515	154	NR	645	190	NR	775	3	NR	905	0	NR
390	1	NR	520	162	NR	650	161	NR	780	3	NR	910	0	NR
395	1	NR	525	166	NR	655	134	NR	785	2	NR	915	0	NR
400	2	NR	530	171	NR	660	114	NR	790	2	NR	920	0	NR
405	3	NR	535	176	NR	665	96	NR	795	2	NR	925	0	NR
410	4	NR	540	182	NR	670	89	NR	800	1	NR	930	0	NR
415	7	NR	545	187	NR	675	72	NR	805	1	NR	935	0	NR
420	14	NR	550	194	NR	680	62	NR	810	1	NR	940	0	NR
425	23	NR	555	202	NR	685	53	NR	815	1	NR	945	0	NR
430	38	NR	560	210	NR	690	46	NR	820	1	NR	950	0	NR
435	63	NR	565	219	NR	695	39	NR	825	1	NR	955	0	NR
440	102	NR	570	228	NR	700	33	NR	830	1	NR	960	0	NR
445	144	NR	575	238	NR	705	28	NR	835	1	NR	965	0	NR
450	128	NR	580	247	NR	710	24	NR	840	0	NR	970	0	NR
455	83	NR	585	257	NR	715	20	NR	845	0	NR	975	0	NR
460	68	NR	590	264	NR	720	18	NR	850	0	NR	980	0	NR
465	55	NR	595	267	NR	725	15	NR	855	0	NR	985	0	NR
470	43	NR	600	273	NR	730	13	NR	860	0	NR	990	0	NR
475	42	NR	605	278	NR	735	11	NR	865	0	NR	995	0	NR
480	47	NR	610	311	NR	740	9	NR	870	0	NR	1000	0	NR
485	58	NR	615	333	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2510-566-2-R2

Scotopic Flux vs. Wavelength

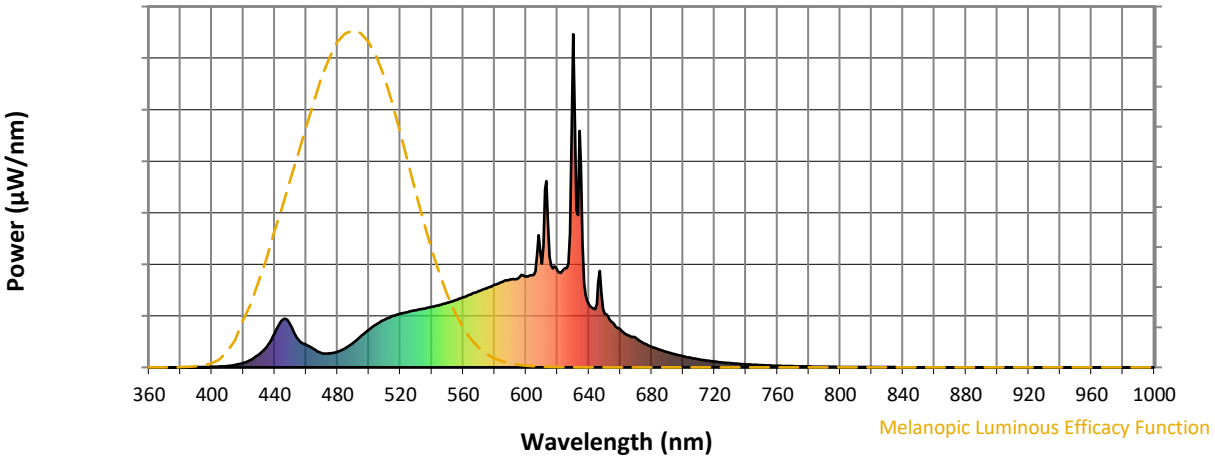


Scotopic Lumens: NR **S/P: 1.3**

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	74	NR	620	290	NR	750	7	NR	880	0	NR
365	0	NR	495	94	NR	625	297	NR	755	6	NR	885	0	NR
370	0	NR	500	113	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	130	NR	635	606	NR	765	4	NR	895	0	NR
380	0	NR	510	143	NR	640	189	NR	770	3	NR	900	0	NR
385	0	NR	515	154	NR	645	190	NR	775	3	NR	905	0	NR
390	1	NR	520	162	NR	650	161	NR	780	3	NR	910	0	NR
395	1	NR	525	166	NR	655	134	NR	785	2	NR	915	0	NR
400	2	NR	530	171	NR	660	114	NR	790	2	NR	920	0	NR
405	3	NR	535	176	NR	665	96	NR	795	2	NR	925	0	NR
410	4	NR	540	182	NR	670	89	NR	800	1	NR	930	0	NR
415	7	NR	545	187	NR	675	72	NR	805	1	NR	935	0	NR
420	14	NR	550	194	NR	680	62	NR	810	1	NR	940	0	NR
425	23	NR	555	202	NR	685	53	NR	815	1	NR	945	0	NR
430	38	NR	560	210	NR	690	46	NR	820	1	NR	950	0	NR
435	63	NR	565	219	NR	695	39	NR	825	1	NR	955	0	NR
440	102	NR	570	228	NR	700	33	NR	830	1	NR	960	0	NR
445	144	NR	575	238	NR	705	28	NR	835	1	NR	965	0	NR
450	128	NR	580	247	NR	710	24	NR	840	0	NR	970	0	NR
455	83	NR	585	257	NR	715	20	NR	845	0	NR	975	0	NR
460	68	NR	590	264	NR	720	18	NR	850	0	NR	980	0	NR
465	55	NR	595	267	NR	725	15	NR	855	0	NR	985	0	NR
470	43	NR	600	273	NR	730	13	NR	860	0	NR	990	0	NR
475	42	NR	605	278	NR	735	11	NR	865	0	NR	995	0	NR
480	47	NR	610	311	NR	740	9	NR	870	0	NR	1000	0	NR
485	58	NR	615	333	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2510-566-2-R2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.45**

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	74	NR	620	290	NR	750	7	NR	880	0	NR
365	0	NR	495	94	NR	625	297	NR	755	6	NR	885	0	NR
370	0	NR	500	113	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	130	NR	635	606	NR	765	4	NR	895	0	NR
380	0	NR	510	143	NR	640	189	NR	770	3	NR	900	0	NR
385	0	NR	515	154	NR	645	190	NR	775	3	NR	905	0	NR
390	1	NR	520	162	NR	650	161	NR	780	3	NR	910	0	NR
395	1	NR	525	166	NR	655	134	NR	785	2	NR	915	0	NR
400	2	NR	530	171	NR	660	114	NR	790	2	NR	920	0	NR
405	3	NR	535	176	NR	665	96	NR	795	2	NR	925	0	NR
410	4	NR	540	182	NR	670	89	NR	800	1	NR	930	0	NR
415	7	NR	545	187	NR	675	72	NR	805	1	NR	935	0	NR
420	14	NR	550	194	NR	680	62	NR	810	1	NR	940	0	NR
425	23	NR	555	202	NR	685	53	NR	815	1	NR	945	0	NR
430	38	NR	560	210	NR	690	46	NR	820	1	NR	950	0	NR
435	63	NR	565	219	NR	695	39	NR	825	1	NR	955	0	NR
440	102	NR	570	228	NR	700	33	NR	830	1	NR	960	0	NR
445	144	NR	575	238	NR	705	28	NR	835	1	NR	965	0	NR
450	128	NR	580	247	NR	710	24	NR	840	0	NR	970	0	NR
455	83	NR	585	257	NR	715	20	NR	845	0	NR	975	0	NR
460	68	NR	590	264	NR	720	18	NR	850	0	NR	980	0	NR
465	55	NR	595	267	NR	725	15	NR	855	0	NR	985	0	NR
470	43	NR	600	273	NR	730	13	NR	860	0	NR	990	0	NR
475	42	NR	605	278	NR	735	11	NR	865	0	NR	995	0	NR
480	47	NR	610	311	NR	740	9	NR	870	0	NR	1000	0	NR
485	58	NR	615	333	NR	745	8	NR	875	0	NR			

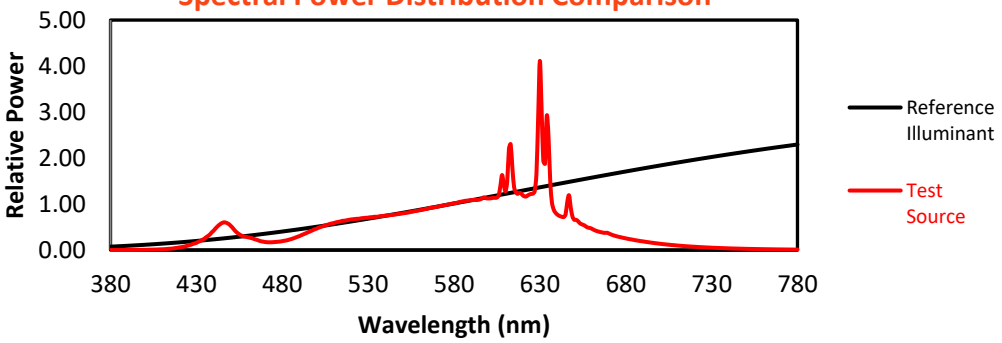
REPORT NUMBER: SP1-2510-566-2-R2

TM-30-18

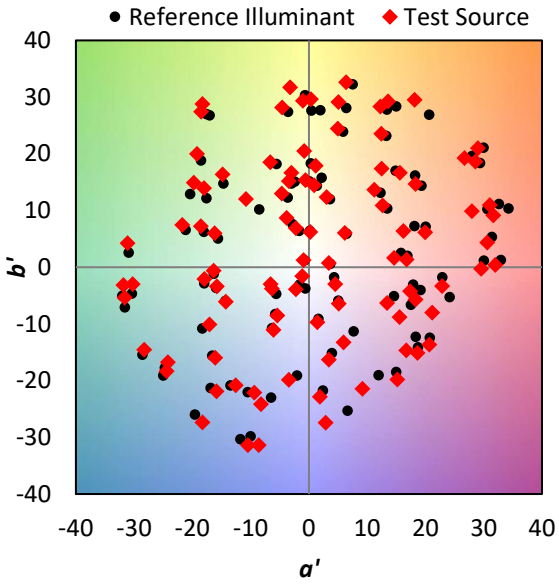
Summary

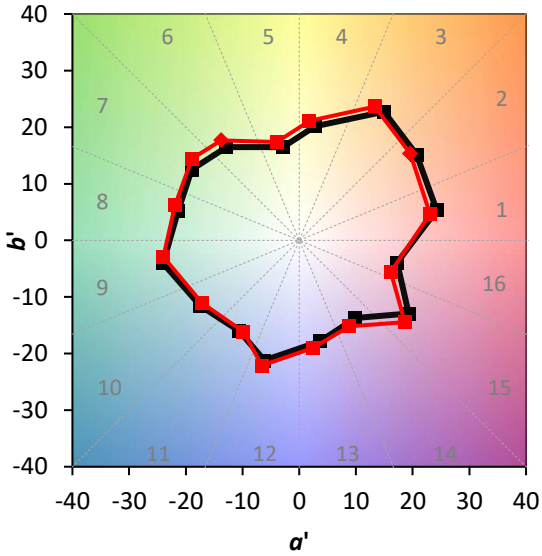
R_f = 89.8
R_g = 102.5
CIE R_a = 93.3
R_9 = 56.5

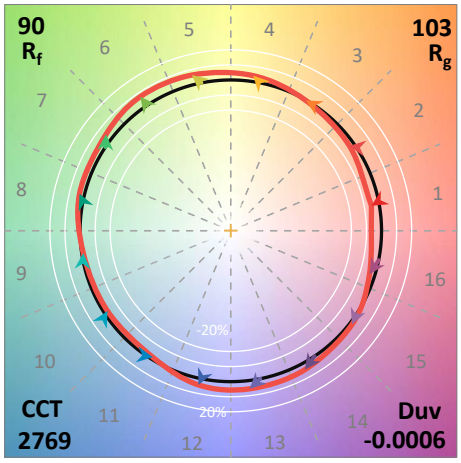
Spectral Power Distribution Comparison

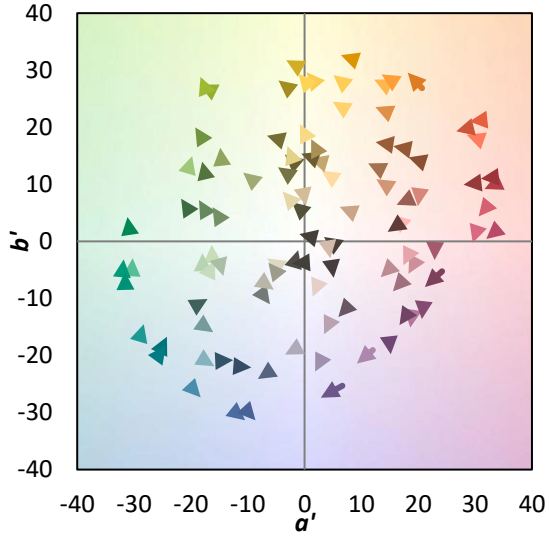


Color Vector Graphics







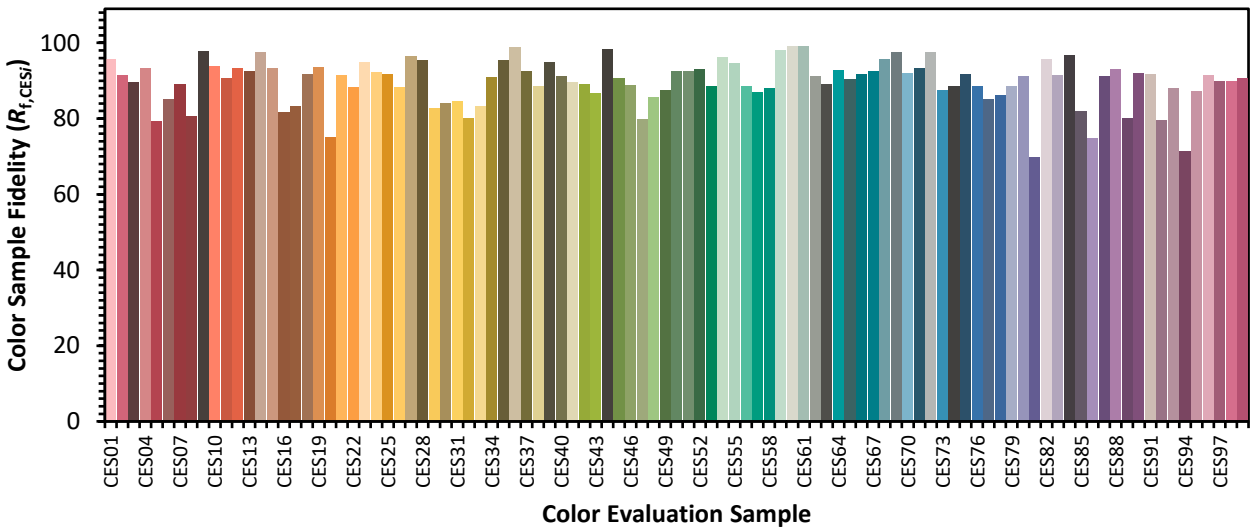


REPORT NUMBER: SP1-2510-566-2-R2

TM-30-18

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

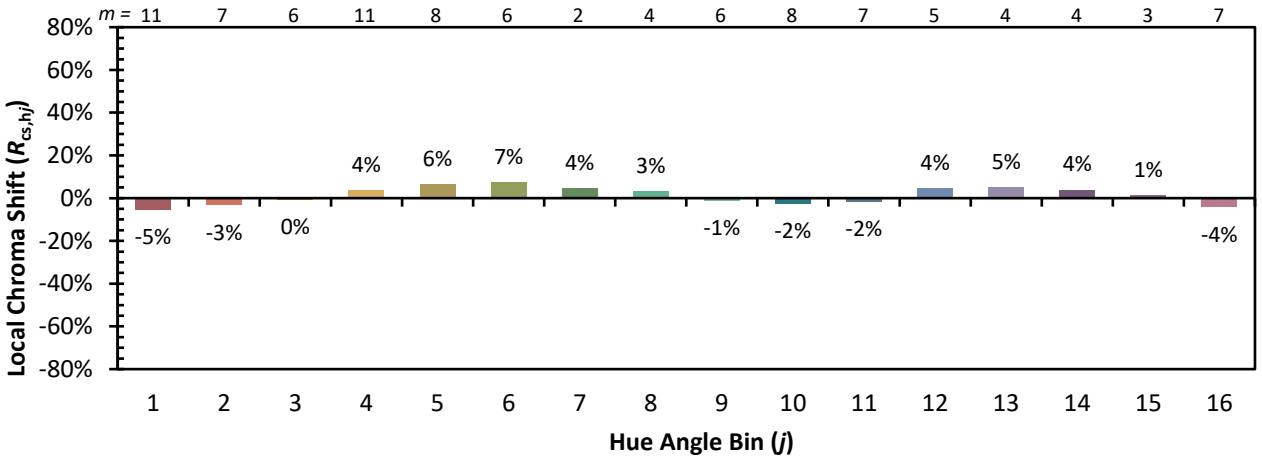
CES01 = 86	CES26 = 88	CES51 = 92	CES76 = 89
CES02 = 64	CES27 = 97	CES52 = 93	CES77 = 85
CES03 = 32	CES28 = 95	CES53 = 88	CES78 = 86
CES04 = 70	CES29 = 83	CES54 = 96	CES79 = 89
CES05 = 51	CES30 = 84	CES55 = 95	CES80 = 91
CES06 = 51	CES31 = 85	CES56 = 89	CES81 = 70
CES07 = 44	CES32 = 80	CES57 = 87	CES82 = 96
CES08 = 43	CES33 = 83	CES58 = 88	CES83 = 92
CES09 = 29	CES34 = 91	CES59 = 98	CES84 = 97
CES10 = 77	CES35 = 95	CES60 = 99	CES85 = 82
CES11 = 59	CES36 = 99	CES61 = 99	CES86 = 75
CES12 = 66	CES37 = 93	CES62 = 91	CES87 = 91
CES13 = 44	CES38 = 88	CES63 = 89	CES88 = 93
CES14 = 74	CES39 = 95	CES64 = 93	CES89 = 80
CES15 = 72	CES40 = 91	CES65 = 90	CES90 = 92
CES16 = 48	CES41 = 90	CES66 = 92	CES91 = 92
CES17 = 50	CES42 = 89	CES67 = 93	CES92 = 80
CES18 = 57	CES43 = 87	CES68 = 96	CES93 = 88
CES19 = 72	CES44 = 98	CES69 = 98	CES94 = 71
CES20 = 68	CES45 = 91	CES70 = 92	CES95 = 87
CES21 = 87	CES46 = 89	CES71 = 93	CES96 = 92
CES22 = 79	CES47 = 80	CES72 = 97	CES97 = 90
CES23 = 92	CES48 = 86	CES73 = 87	CES98 = 90
CES24 = 91	CES49 = 87	CES74 = 89	CES99 = 91
CES25 = 72	CES50 = 92	CES75 = 92	

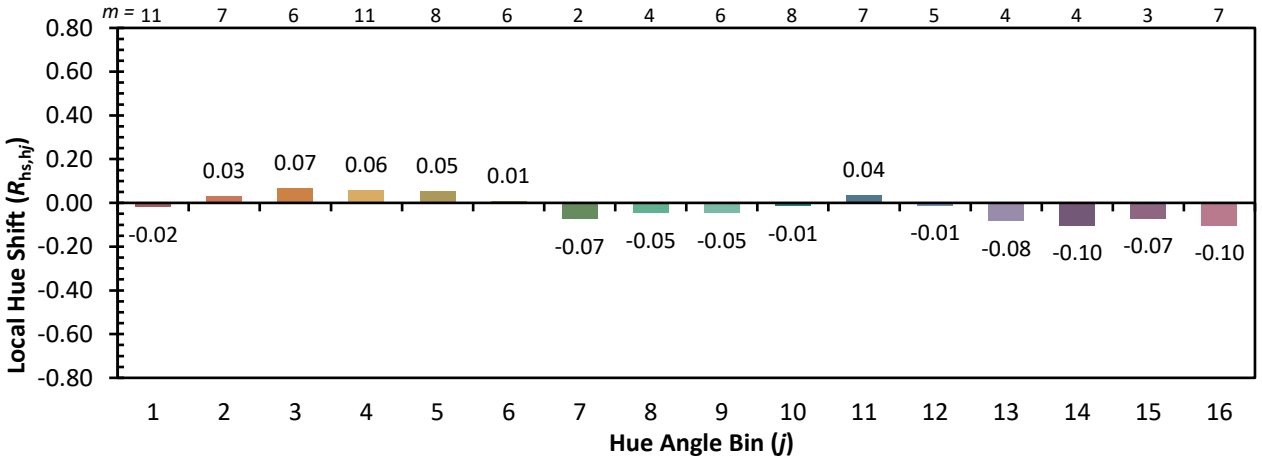


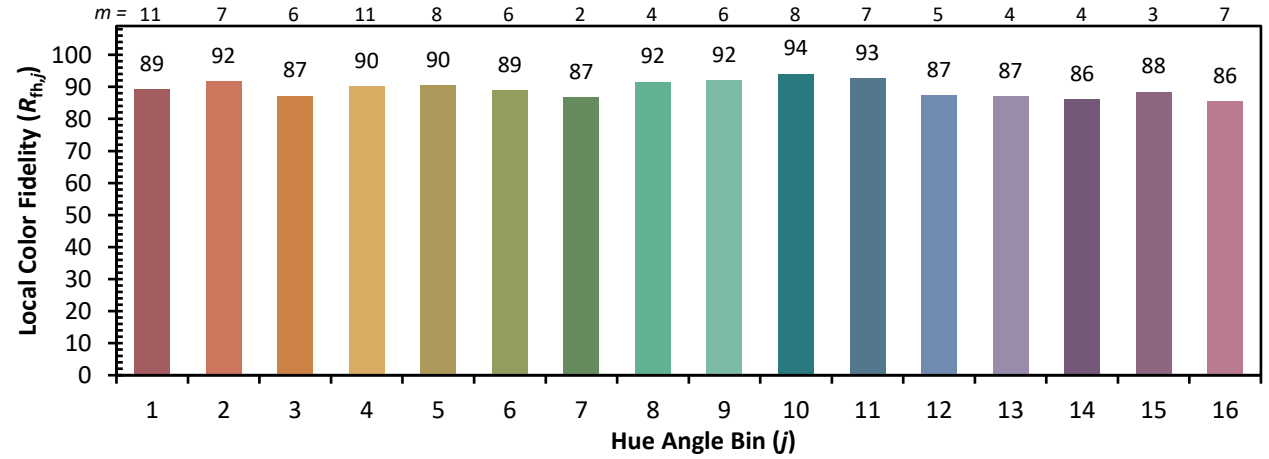
REPORT NUMBER: SP1-2510-566-2-R2

TM-30-18

Color Rendition by Hue-Angle Bin



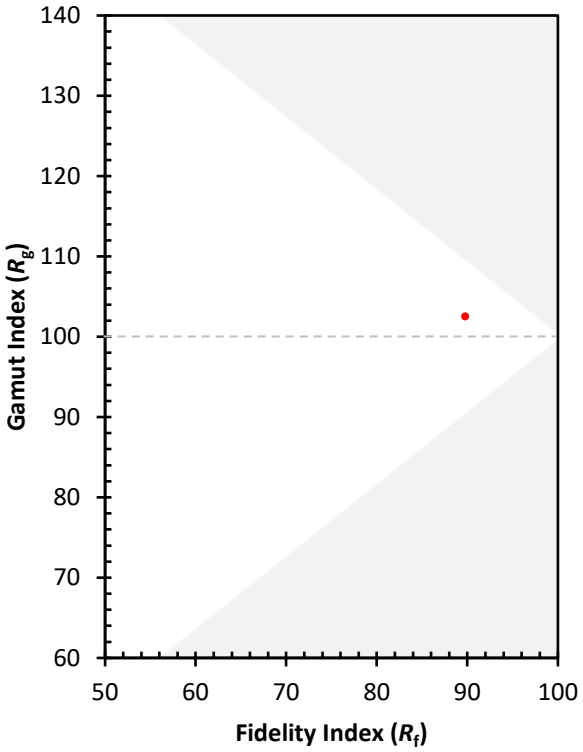


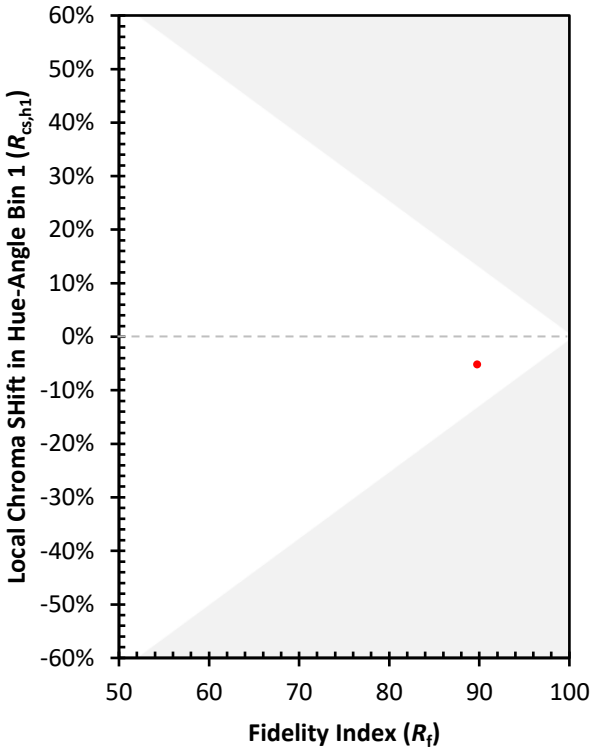


REPORT NUMBER: SP1-2510-566-2-R2

TM-30-18

Measure Comparisons





(END OF REPORT)