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: P1559319

Luminaire Tested: 24CGTX-72-B2750-W2D2-4000K

Issue Date: 9/3/2026

Report Generated By 670265710 / DESKTOP-98SHLC4

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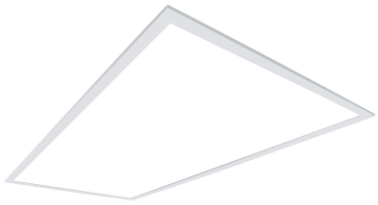
Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1559319
	TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G3-2510-581-45)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	9/3/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	24CGTX-72-B2750-W2D2-4000K
Description:	2X4 7200 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:	7325.2 lumens
Efficiency:	N/A
Efficacy:	107.4 lumens/watt
Spacing Criteria (0/90/45):	1.29 / 1.28 / 1.4
Luminous Opening:	Rectangular (W 2' x L: 4' x H: 0')
CIE Type:	Direct
Input Watts (W):	68.2
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

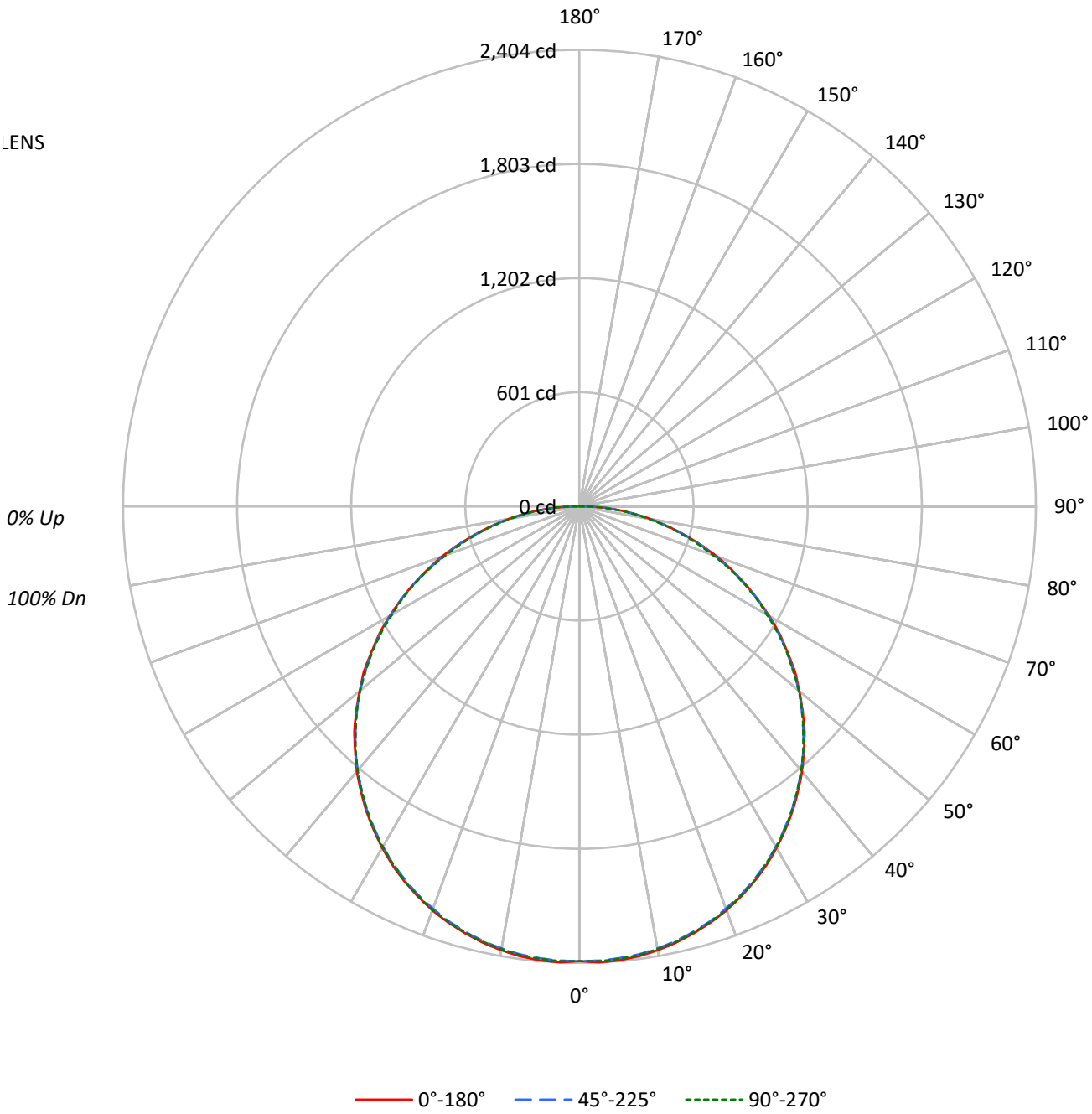


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Scaled Data Report

TEST NUMBER: P1559319
CATALOG NUMBER: 24CGTX-72-B2750-W2D2-4000K

Luminous Intensity Polar Plot



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TEST NUMBER: P1559319
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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	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	74	70	68
3	89	78	70	63	86	76	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	73	60	52	45	58	50	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3222	3222	3222
5°	3241	3226	3230
10°	3243	3229	3235
15°	3242	3231	3236
20°	3241	3228	3237
25°	3235	3223	3232
30°	3226	3215	3218
35°	3216	3204	3206
40°	3204	3189	3191
45°	3191	3172	3172
50°	3163	3154	3154
55°	3136	3124	3119
60°	3104	3091	3066
65°	3060	3048	3028
70°	3029	2982	2934
75°	2941	2915	2873
80°	2917	2847	2816
85°	2921	2813	2766

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
Vertical Angle: 87.5°
Luminance: 3353 cd/sqm

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TEST NUMBER: P1559319
CATALOG NUMBER: 24CGTX-72-B2750-W2D2-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.4	3.1
10°-20°	655.4	8.9
20°-30°	1001.7	13.7
30°-40°	1221.1	16.7
40°-50°	1287.1	17.6
50°-60°	1191.2	16.3
60°-70°	945.4	12.9
70°-80°	592.5	8.1
80°-90°	203.4	2.8
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°	1884.5	25.7
0°-40°	3105.6	42.4
0°-60°	5583.9	76.2
0°-90°	7325.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7325.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2395	2395	2395	2395	2395	
5°	2400	2392	2389	2387	2392	228
15°	2327	2321	2319	2317	2323	657
25°	2179	2172	2171	2170	2177	1005
35°	1958	1953	1951	1950	1952	1224
45°	1677	1669	1667	1665	1667	1291
55°	1337	1336	1332	1330	1330	1197
65°	961	958	957	950	951	951
75°	566	566	561	555	553	601
85°	189	185	182	181	179	205
90°	0	0	0	0	0	

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Scaled Data Report

TEST NUMBER: P1559319
CATALOG NUMBER: 24CGTX-72-B2750-W2D2-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*2394.7*	2394.7	2394.7	2394.7	2394.7
2.5°	*2403.7*	*2396.7*	*2393.7*	*2391.6*	*2396.7*
5°	*2399.7*	2391.6	2388.6	2386.6	2391.6
7.5°	*2389.6*	2381.6	2379.6	2377.6	2383.6
10°	*2373.5*	2366.5	2363.5	2363.5	2367.5
12.5°	*2353.4*	2346.3	2344.3	2342.3	2348.4
15°	*2327.2*	2321.2	2319.2	2317.2	2323.2
17.5°	*2298.0*	2292.0	2290.0	2289.0	2294.0
20°	*2263.8*	2255.8	2254.7	2255.8	2260.8
22.5°	*2223.5*	2216.5	2215.5	2215.5	2220.5
25°	*2179.3*	2172.2	2171.2	2170.2	2177.2
27.5°	*2130.9*	2123.9	2122.9	2121.9	2124.9
30°	*2076.6*	2070.5	2069.5	2068.5	2071.5
32.5°	*2018.2*	2013.2	2011.2	2009.1	2015.2
35°	*1957.8*	1952.8	1950.8	1949.8	1951.8
37.5°	*1890.4*	1888.4	1885.3	1884.3	1884.3
40°	*1823.9*	1818.9	1815.9	1814.9	1816.9
42.5°	*1748.4*	1747.4	1745.4	1742.4	1744.4
45°	*1677.0*	1668.9	1666.9	1664.9	1666.9
47.5°	*1594.4*	1588.4	1588.4	1585.4	1589.4
50°	*1510.9*	1511.9	1506.9	1503.8	1506.9
52.5°	*1431.4*	1424.3	1420.3	1419.3	1417.3
55°	*1336.7*	1335.7	1331.7	1329.7	1329.7
57.5°	*1250.2*	1245.1	1244.1	1237.1	1239.1
60°	*1153.5*	1149.5	1148.5	1143.5	1139.5
62.5°	*1056.9*	1056.9	1056.9	1046.8	1048.9
65°	*961.3*	958.3	957.3	950.2	951.2
67.5°	*863.6*	864.7	856.6	853.6	852.6
70°	*770.0*	762.0	758.0	753.9	745.9
72.5°	*667.4*	665.4	661.3	653.3	647.2
75°	*565.7*	565.7	560.7	554.6	552.6
77.5°	*470.1*	465.0	466.0	460.0	455.0
80°	*376.5*	370.4	367.4	365.4	363.4
82.5°	*279.8*	278.8	275.8	272.8	270.8
85°	*189.2*	185.2	182.2	181.2	179.2
87.5°	*97.6*	102.7	103.7	107.7	108.7
90°	*0.0*	0.0	0.0	0.0	0.0

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CATALOG NUMBER: 24CGTX-72-B2750-W2D2-4000K

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	16.18	17.85	16.54	18.17	18.48	16.13	17.81	16.50	18.12	18.44
	3H	18.18	19.70	18.56	20.03	20.39	18.10	19.62	18.48	19.95	20.31
	4H	18.98	20.42	19.38	20.77	21.14	18.89	20.33	19.29	20.67	21.05
	6H	19.65	20.98	20.06	21.34	21.73	19.53	20.87	19.94	21.23	21.62
	8H	19.89	21.17	20.32	21.56	21.96	19.77	21.05	20.20	21.44	21.83
	12H	20.09	21.31	20.52	21.69	22.12	19.96	21.18	20.39	21.56	21.99
4H	2H	16.86	18.30	17.26	18.65	19.02	16.83	18.26	17.22	18.61	18.98
	3H	19.09	20.31	19.50	20.70	21.10	19.03	20.24	19.44	20.64	21.04
	4H	20.04	21.14	20.47	21.55	21.99	19.95	21.06	20.38	21.47	21.90
	6H	20.85	21.81	21.30	22.25	22.71	20.74	21.71	21.20	22.15	22.60
	8H	21.16	22.07	21.62	22.51	22.97	21.05	21.95	21.51	22.39	22.86
	12H	21.42	22.23	21.90	22.71	23.18	21.29	22.11	21.77	22.58	23.05
8H	4H	20.42	21.32	20.88	21.76	22.23	20.34	21.25	20.80	21.69	22.15
	6H	21.37	22.13	21.87	22.62	23.09	21.28	22.04	21.78	22.53	23.00
	8H	21.78	22.47	22.29	22.97	23.45	21.68	22.36	22.19	22.87	23.35
	12H	22.15	22.75	22.65	23.24	23.80	22.03	22.64	22.54	23.12	23.68
12H	4H	20.47	21.29	20.95	21.76	22.23	20.40	21.22	20.88	21.69	22.16
	6H	21.46	22.15	21.97	22.65	23.13	21.38	22.06	21.88	22.56	23.05
	8H	21.94	22.55	22.45	23.04	23.60	21.85	22.45	22.35	22.94	23.50

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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

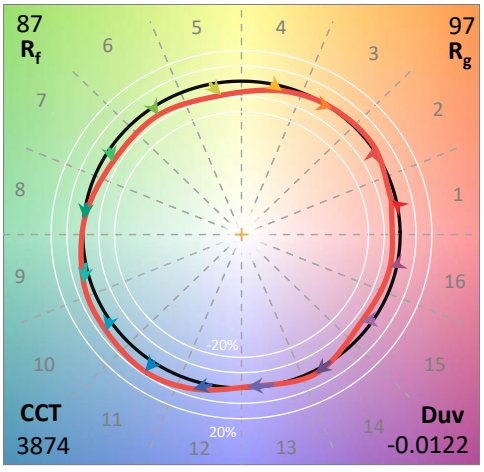
Test Information

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				



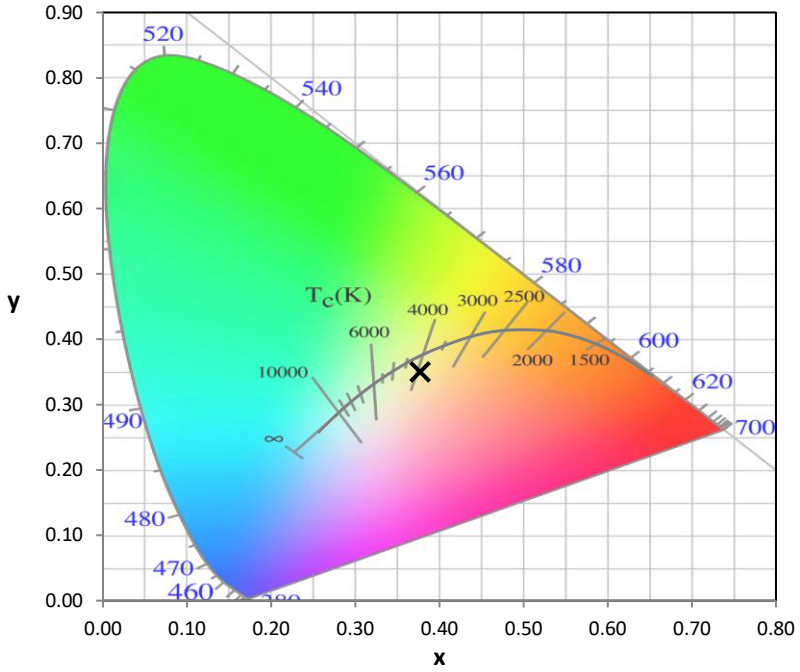
Test Conditions

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

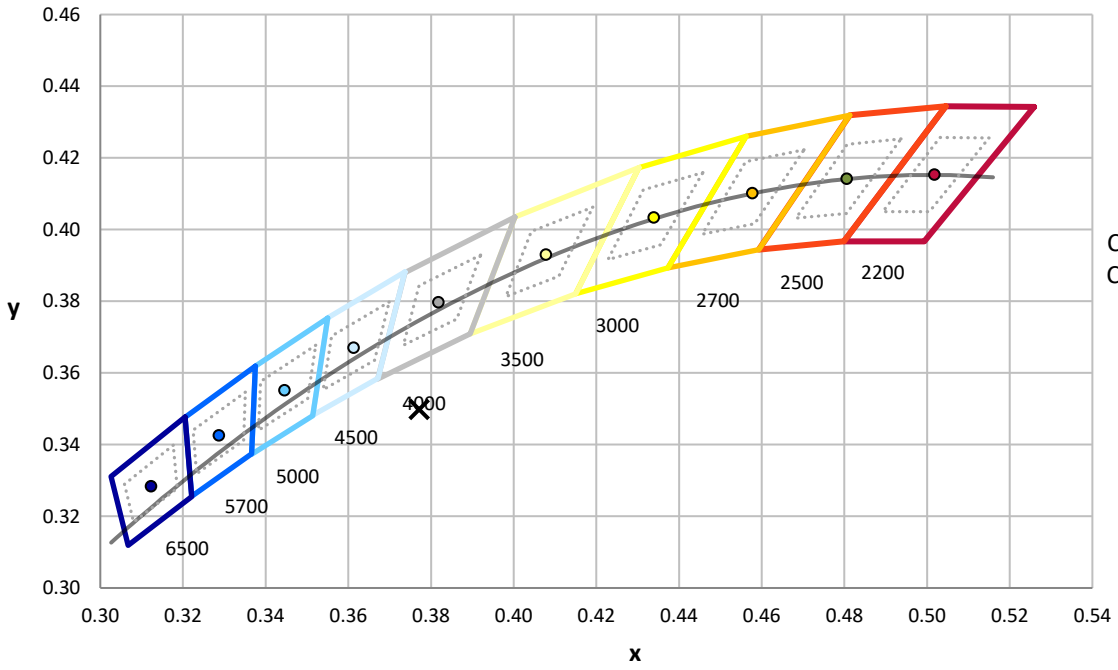
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2024	6/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

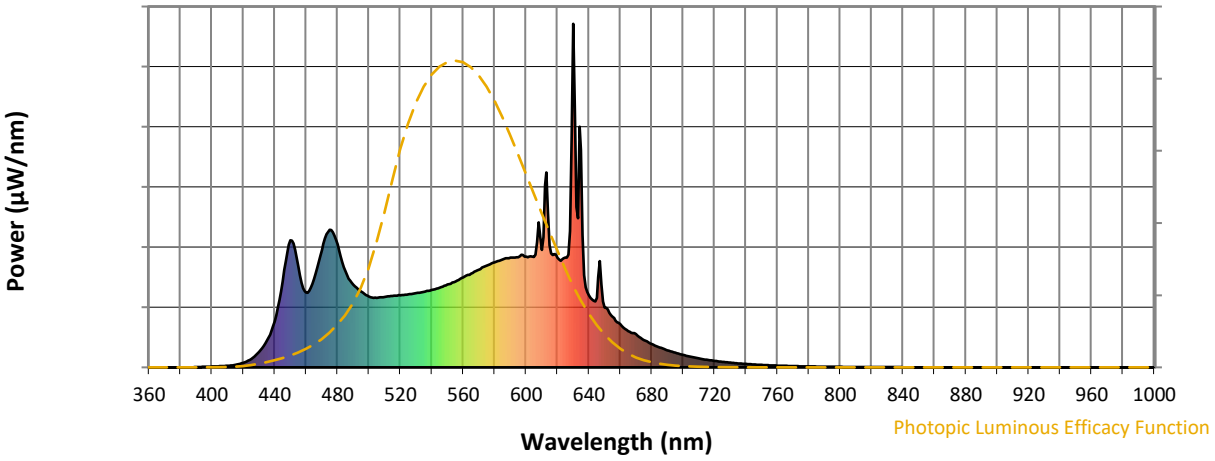


CCT = 3874K
CIE x = 0.3772
CIE y = 0.3498
Duv = -0.0122

Point lies outside the range

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

Photopic Flux vs. Wavelength

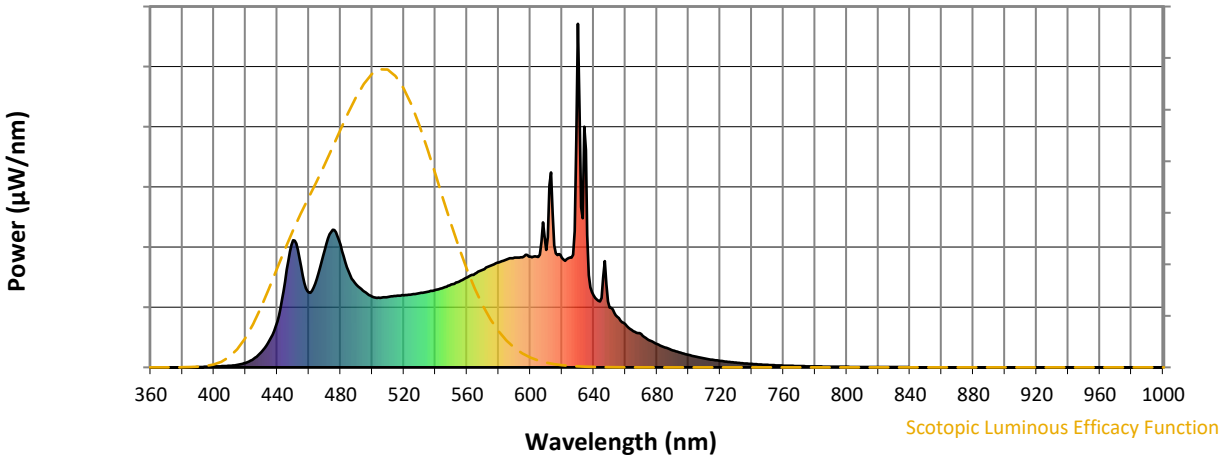


Photopic Lumens: NR

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

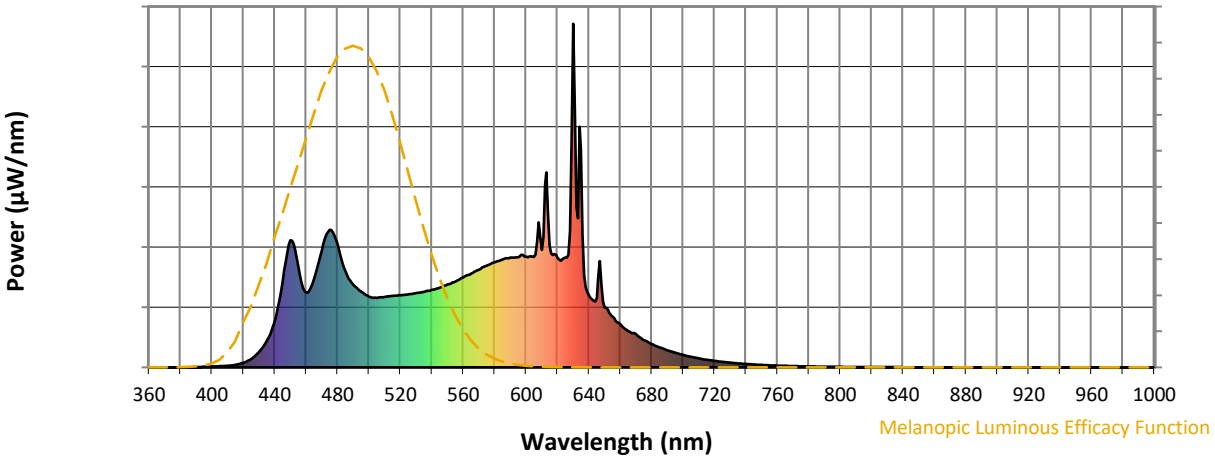


Scotopic Lumens: NR **S/P: 2**

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			

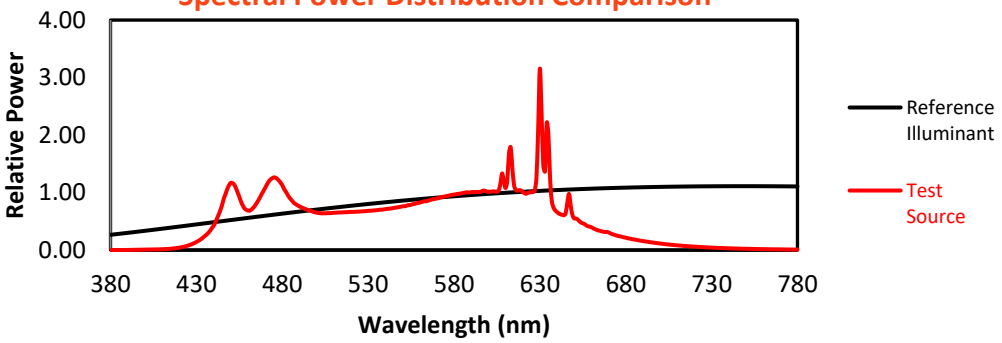
REPORT NUMBER: SP1-2505-441-25-R2

TM-30-18

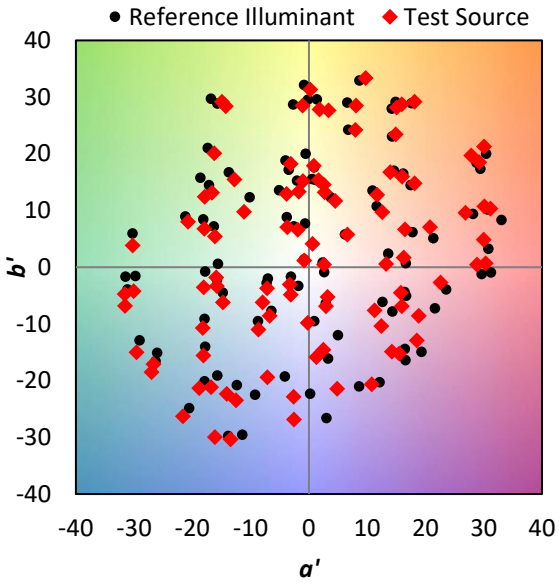
Summary

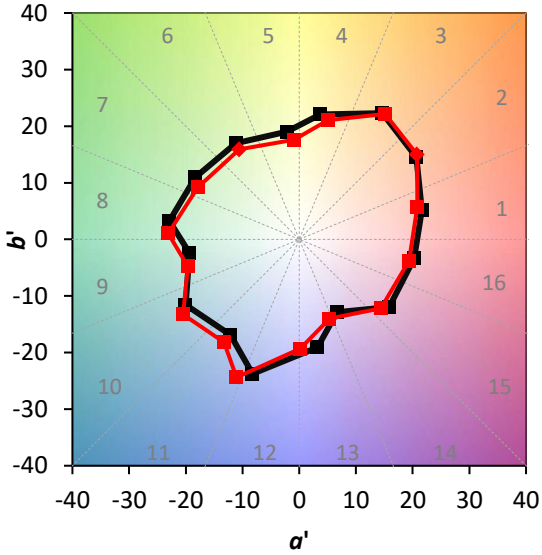
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CIE R_a = 87.1
R_9 = 90.9

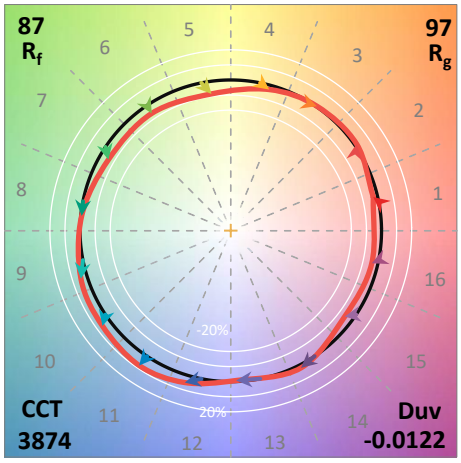
Spectral Power Distribution Comparison

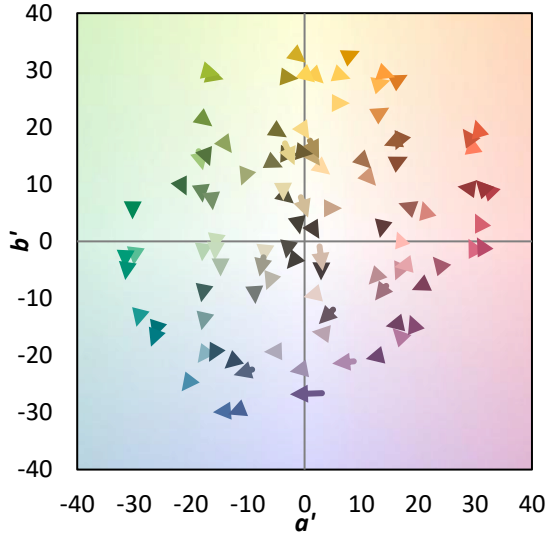


Color Vector Graphics







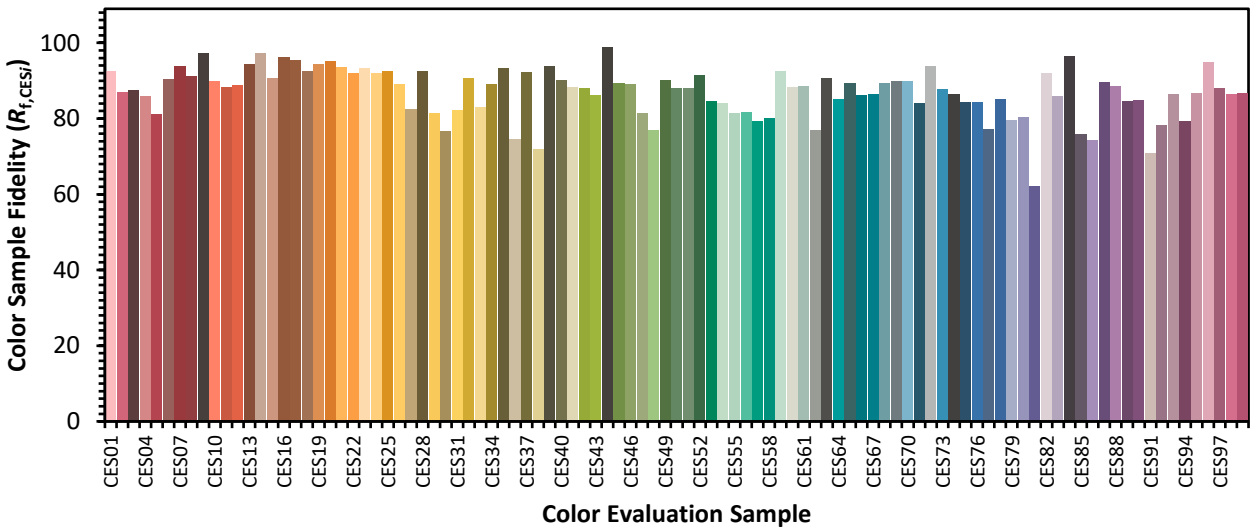


REPORT NUMBER: SP1-2505-441-25-R2

TM-30-18

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

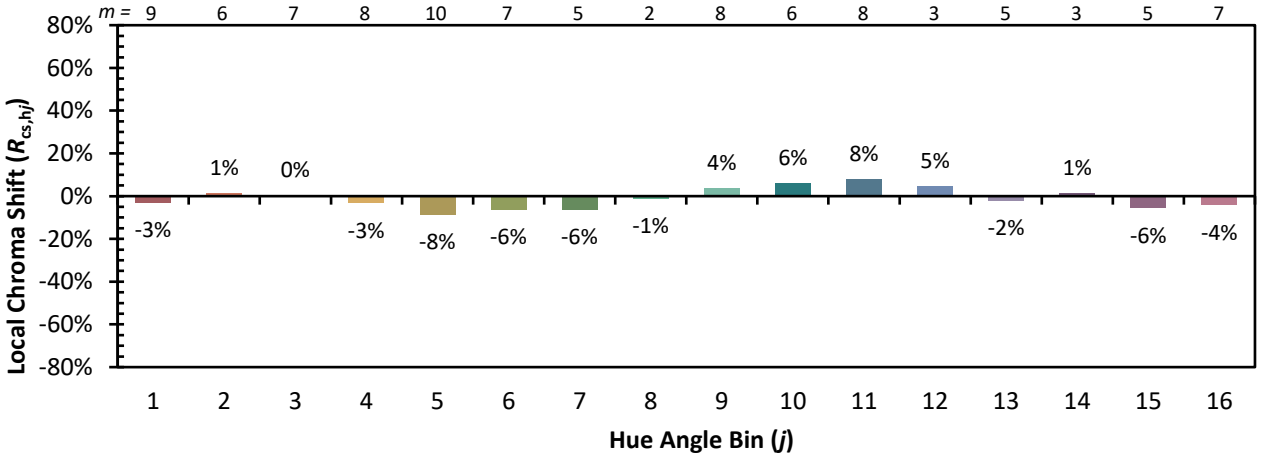
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CES04 = 70	CES29 = 81	CES54 = 84	CES79 = 80
CES05 = 50	CES30 = 77	CES55 = 81	CES80 = 80
CES06 = 51	CES31 = 82	CES56 = 82	CES81 = 62
CES07 = 43	CES32 = 91	CES57 = 79	CES82 = 92
CES08 = 41	CES33 = 83	CES58 = 80	CES83 = 86
CES09 = 29	CES34 = 89	CES59 = 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
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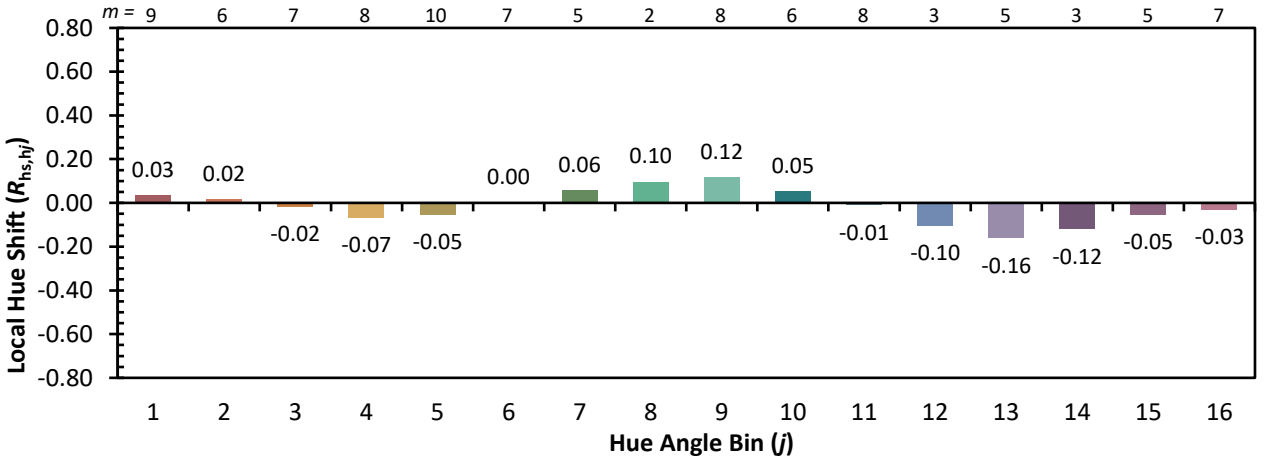


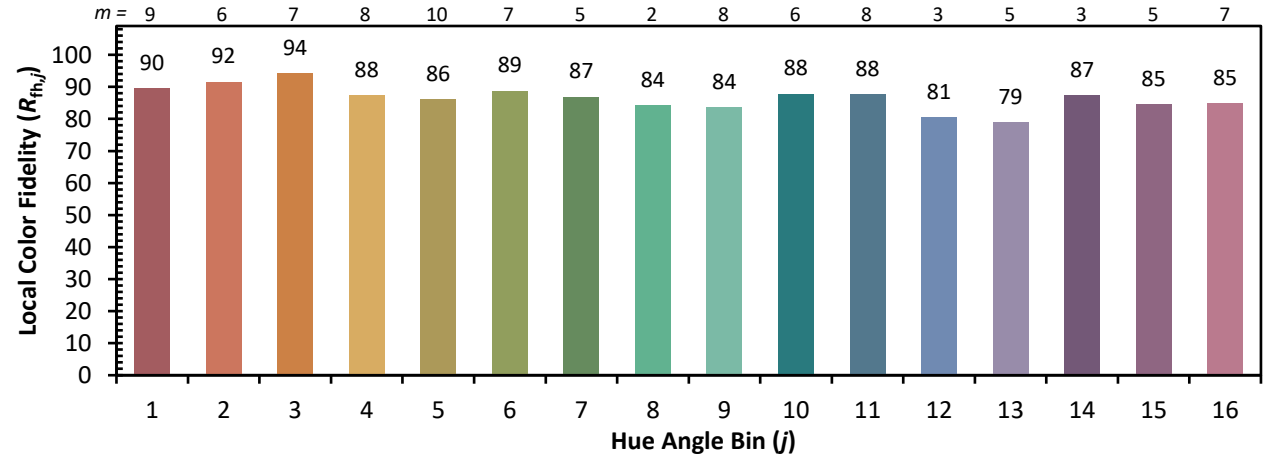
REPORT NUMBER: SP1-2505-441-25-R2

TM-30-18

Color Rendition by Hue-Angle Bin



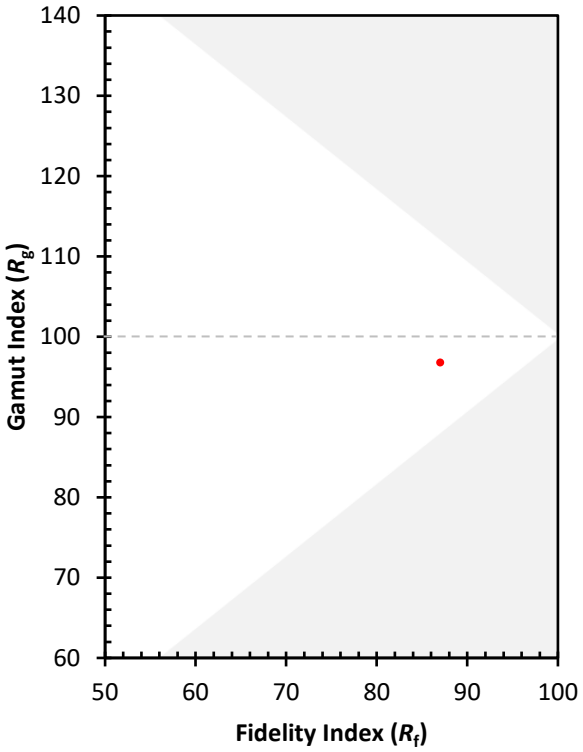


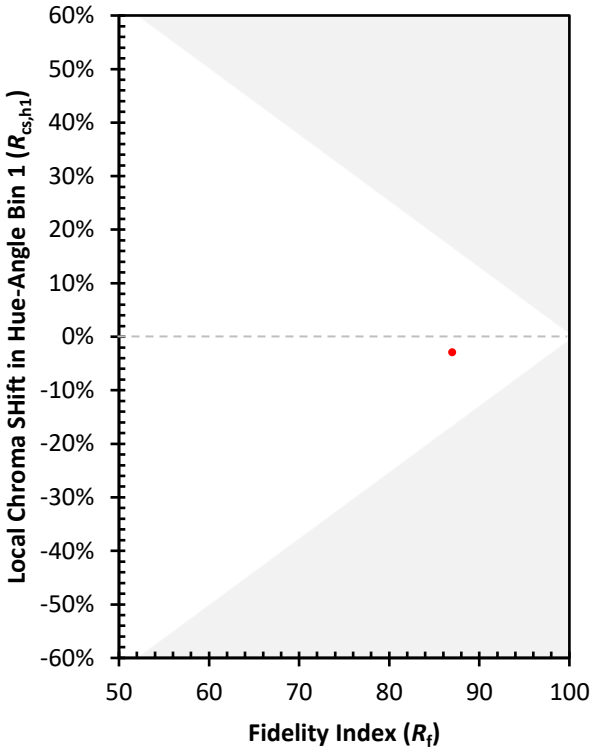


REPORT NUMBER: SP1-2505-441-25-R2

TM-30-18

Measure Comparisons





(END OF REPORT)