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: P976419

Luminaire Tested: 24SR-LD2-39-C-UNV-L935-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:	P976419
Test Lab:	INNOVATION CENTER(P3)
Issue Date:	03/18/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	24SR-LD2-39-C-UNV-L935-CD1-U
Description:	METALUX SKYRIDGE 2x4 3900LM PACKAGE 90CRI 3500K CURVED REFLECTOR TROFFER
Light Source:	3500K CCT, 90+ CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3876.9 lumens
Efficiency:	N/A
Efficacy:	140.0 lumens/watt
Spacing Criteria (0/90/45):	1.18 / 1.52 / 1.48
Luminous Opening:	Rectangular (W 2' x L: 4' x H: 0')
CIE Type:	Direct

Input Watts (W):	27.7
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: P976419
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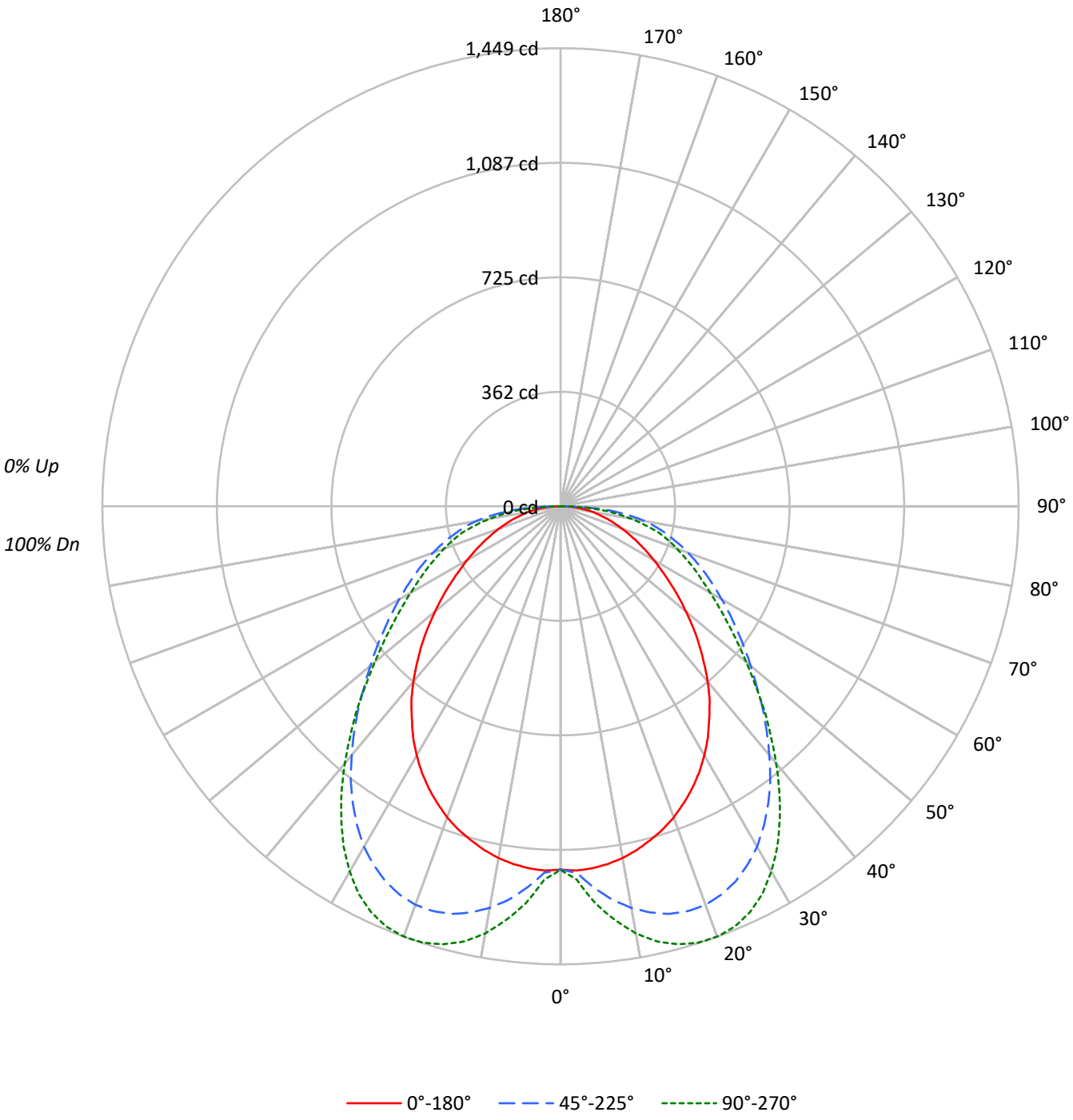
Luminous Intensity Polar Plot



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TEST NUMBER: P976419
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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	96	93	96	93	90	92	89	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
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	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1546	1546	1546
5°	1552	1635	1703
10°	1543	1762	1874
15°	1523	1859	1997
20°	1500	1921	2074
25°	1462	1944	2103
30°	1413	1932	2072
35°	1346	1881	1986
40°	1272	1805	1863
45°	1182	1721	1733
50°	1084	1644	1605
55°	994	1597	1516
60°	919	1586	1472
65°	860	1614	1484
70°	818	1688	1542
75°	792	1831	1673
80°	800	2103	1764
85°	838	2453	1922

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
Vertical Angle: 87.5°
Luminance: 2983 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.5	3.0
10°-20°	369.9	9.5
20°-30°	583.7	15.1
30°-40°	684.1	17.6
40°-50°	654.4	16.9
50°-60°	557.6	14.4
60°-70°	447.5	11.5
70°-80°	323.9	8.4
80°-90°	138.3	3.6
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°	1071.1	27.6
0°-40°	1755.1	45.3
0°-60°	2967.2	76.5
0°-90°	3876.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3876.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1149	1149	1149	1149	1149	
5°	1149	1170	1210	1253	1261	109
15°	1094	1225	1335	1414	1434	308
25°	985	1174	1310	1398	1417	453
35°	820	1021	1145	1206	1209	513
45°	621	802	904	916	911	479
55°	424	604	681	662	646	381
65°	270	454	507	474	466	269
75°	152	322	352	324	322	162
85°	54	162	159	131	124	58
90°	0	0	0	0	0	

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TEST NUMBER: P976419
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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1149.3	1149.3	1149.3	1149.3	*1149.3*
2.5°	1153.3	1154.6	1159.9	1182.4	*1182.4*
5°	1149.3	1170.5	1210.2	1252.6	*1260.6*
7.5°	1141.4	1189.1	1255.3	1309.5	*1320.1*
10°	1129.5	1208.9	1289.7	1355.9	*1371.8*
12.5°	1113.6	1220.8	1316.2	1391.6	*1410.2*
15°	1093.7	1224.8	1334.7	1414.2	*1434.0*
17.5°	1072.5	1223.5	1342.6	1427.4	*1447.3*
20°	*1047.4*	*1212.9*	*1341.3*	*1430.0*	*1448.6*
22.5°	1016.9	1198.3	1329.4	1419.4	*1439.3*
25°	985.1	1174.5	1309.5	1398.3	*1416.8*
27.5°	949.4	1146.7	1279.1	1365.2	*1382.4*
30°	909.7	1110.9	1243.3	1320.1	*1333.4*
32.5°	867.3	1068.6	1197.0	1267.2	*1276.4*
35°	819.6	1020.9	1145.4	1206.3	*1208.9*
37.5°	774.6	969.2	1089.7	1138.7	*1137.4*
40°	724.3	913.6	1027.5	1067.2	*1060.6*
42.5°	671.3	858.0	965.3	993.1	*983.8*
45°	621.0	802.4	904.4	916.3	*911.0*
47.5°	569.4	746.8	840.8	850.1	*834.2*
50°	517.7	696.5	785.2	781.2	*766.7*
52.5°	470.1	650.1	732.2	720.3	*704.4*
55°	423.7	603.8	680.6	662.1	*646.2*
57.5°	380.0	562.7	634.2	609.1	*594.5*
60°	341.6	523.0	589.2	560.1	*546.9*
62.5°	304.5	487.3	546.9	516.4	*503.2*
65°	270.1	454.2	507.1	474.0	*466.1*
67.5°	237.0	421.1	467.4	435.6	*426.4*
70°	207.9	386.6	429.0	397.2	*391.9*
72.5°	178.8	354.9	390.6	361.5	*357.5*
75°	152.3	321.8	352.2	324.4	*321.8*
77.5°	125.8	286.0	313.8	280.7	*274.1*
80°	103.3	250.3	271.4	233.0	*227.7*
82.5°	78.1	206.6	217.2	182.7	*180.1*
85°	54.3	161.5	158.9	131.1	*124.5*
87.5°	29.1	96.7	84.7	67.5	*64.9*
90°	0.0	0.0	0.0	0.0	*0.0*

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TEST NUMBER: P976419
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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	12.5	14.1	12.9	14.4	14.8	13.4	15.1	13.8	15.4	15.7
	3H	14.2	15.7	14.6	16.0	16.4	15.5	17.0	15.9	17.4	17.7
	4H	14.9	16.3	15.2	16.6	17.0	16.5	18.0	16.9	18.3	18.7
	6H	15.4	16.7	15.8	17.1	17.5	17.4	18.7	17.8	19.1	19.5
	8H	15.6	16.9	16.0	17.2	17.6	17.8	19.1	18.2	19.4	19.8
	12H	15.8	17.0	16.2	17.3	17.8	18.1	19.3	18.5	19.7	20.1
4H	2H	13.6	15.0	14.0	15.3	15.7	14.2	15.6	14.6	16.0	16.4
	3H	15.7	16.9	16.1	17.3	17.7	16.6	17.8	17.0	18.2	18.6
	4H	16.7	17.8	17.1	18.2	18.6	17.8	18.9	18.2	19.3	19.7
	6H	17.5	18.5	18.0	18.9	19.4	18.8	19.8	19.3	20.2	20.7
	8H	17.8	18.7	18.3	19.2	19.6	19.2	20.1	19.7	20.6	21.0
	12H	18.1	18.9	18.5	19.3	19.8	19.6	20.4	20.1	20.9	21.4
8H	4H	17.5	18.4	17.9	18.8	19.3	18.3	19.2	18.8	19.7	20.1
	6H	18.6	19.4	19.1	19.9	20.4	19.6	20.3	20.0	20.8	21.3
	8H	19.2	19.8	19.7	20.4	20.8	20.1	20.8	20.6	21.3	21.8
	12H	19.6	20.2	20.1	20.7	21.3	20.6	21.2	21.1	21.7	22.2
12H	4H	17.6	18.4	18.1	18.9	19.3	18.4	19.2	18.9	19.7	20.2
	6H	18.9	19.6	19.4	20.0	20.6	19.7	20.4	20.3	20.9	21.4
	8H	19.5	20.1	20.0	20.6	21.2	20.4	21.0	20.9	21.5	22.0

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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: SP1-2506-457-6

Test Date: 07/01/2025

Luminaire Tested: 24SR-LD2-64-C-UNV-L935-CD1-U

Data in this report applies to families of products including 24SR-LD2-64-C-UNV-L935-CD1-U

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

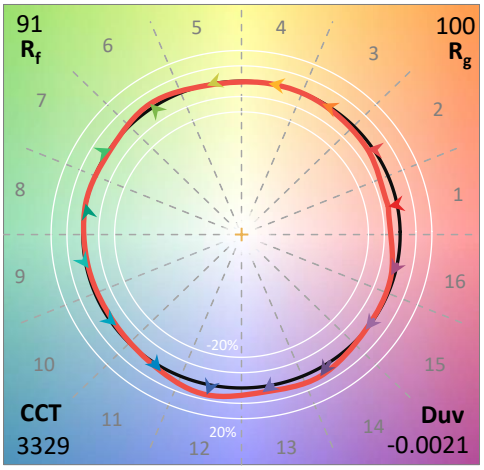
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2506-457-6
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-L935-CD1-U**
Description:	2X4 SKYRIDGE 6400LM Fixture with new LTN chip

Spectral Parameters

CCT (K):	3329
CIE u':	0.2411
CIE v':	0.5118
Duv:	-0.0021
CIE x:	0.4128
CIE y:	0.3894
CIE z:	0.1979
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	582
Purity:	40.74075
Rf:	91.4
Rg:	100.2

CRI (Ra):	93.9				
R1:	95.4	R9:	60.5		
R2:	97.4	R10:	92.5		
R3:	97.7	R11:	95.9		
R4:	94.9	R12:	82.0		
R5:	95.1	R13:	96.0		
R6:	95.7	R14:	98.0		
R7:	91.7	R15:	91.5		
R8:	83.2				



Test Conditions

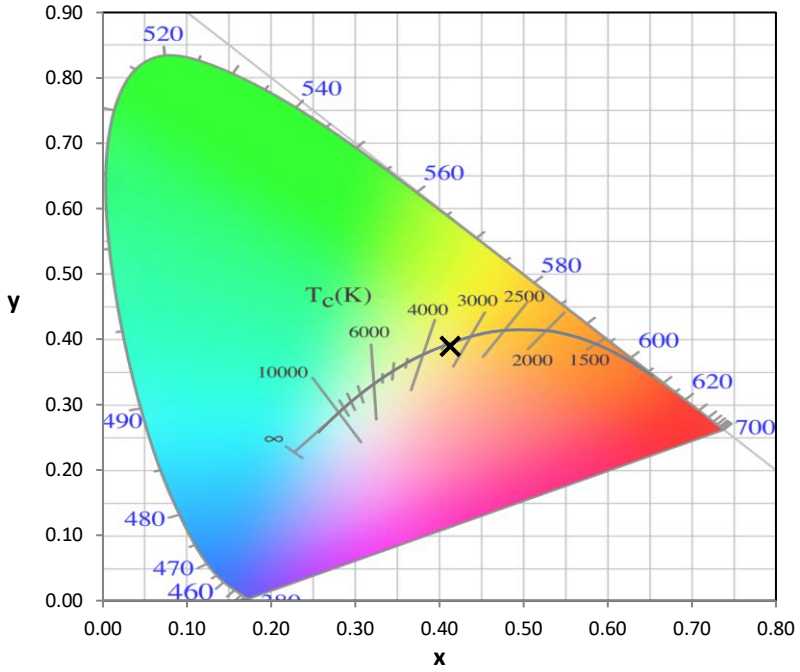
Stabilization Time:	48M
Operation Time:	1H 48M
Sphere Temperature (°C):	24.0

REPORT NUMBER: SP1-2506-457-6

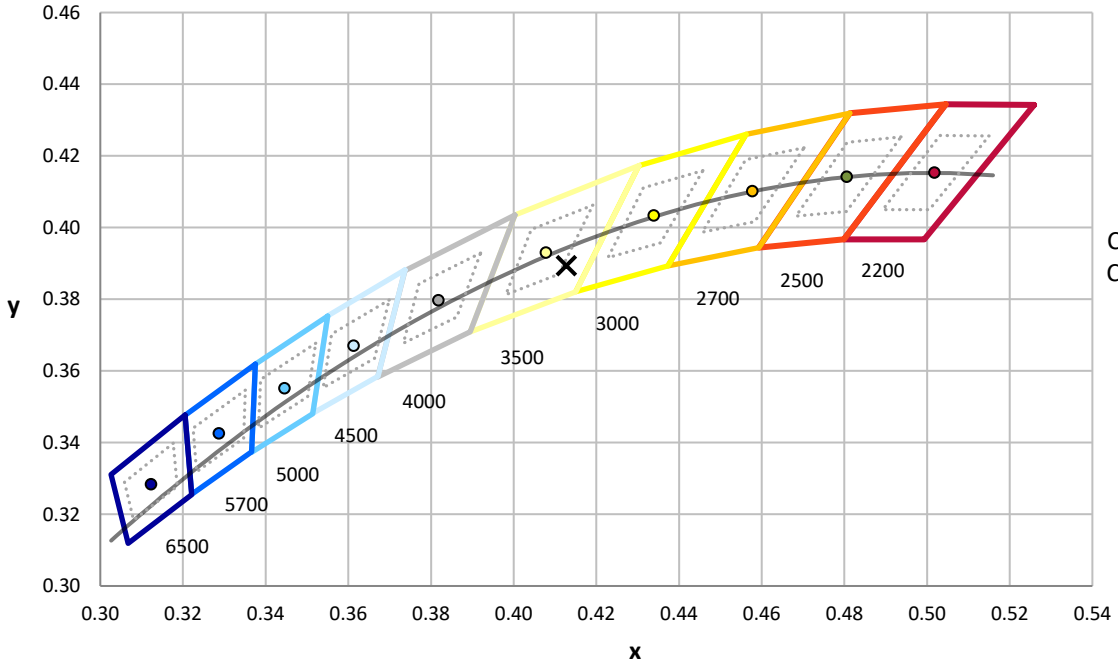
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

CIE 1931 Chromaticity Diagram



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

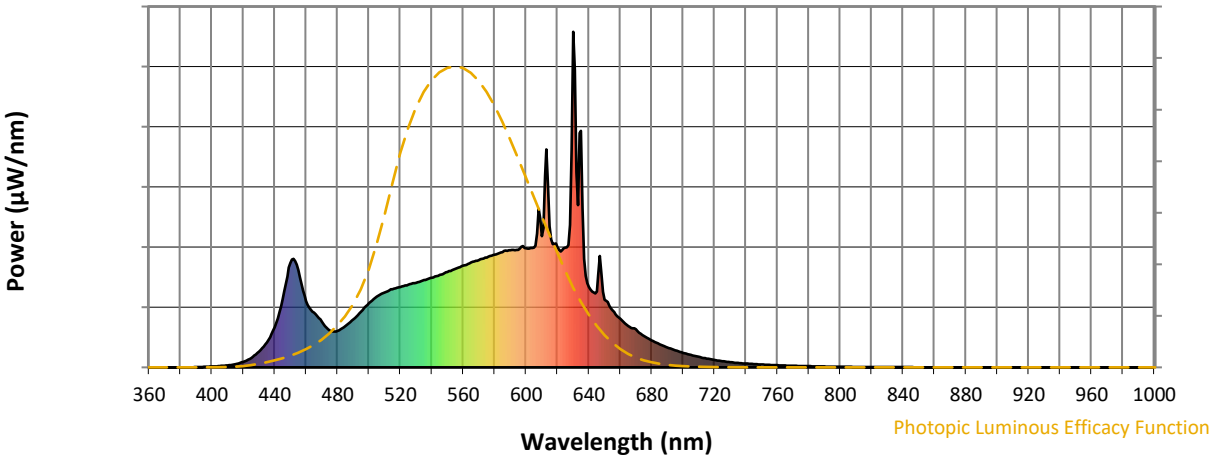


CCT = 3329K
CIE x = 0.4128
CIE y = 0.3894
Duv = -0.0021

Point lies inside the ANSI 3500K 7-step quadrangle

REPORT NUMBER: SP1-2506-457-6

Photopic Flux vs. Wavelength

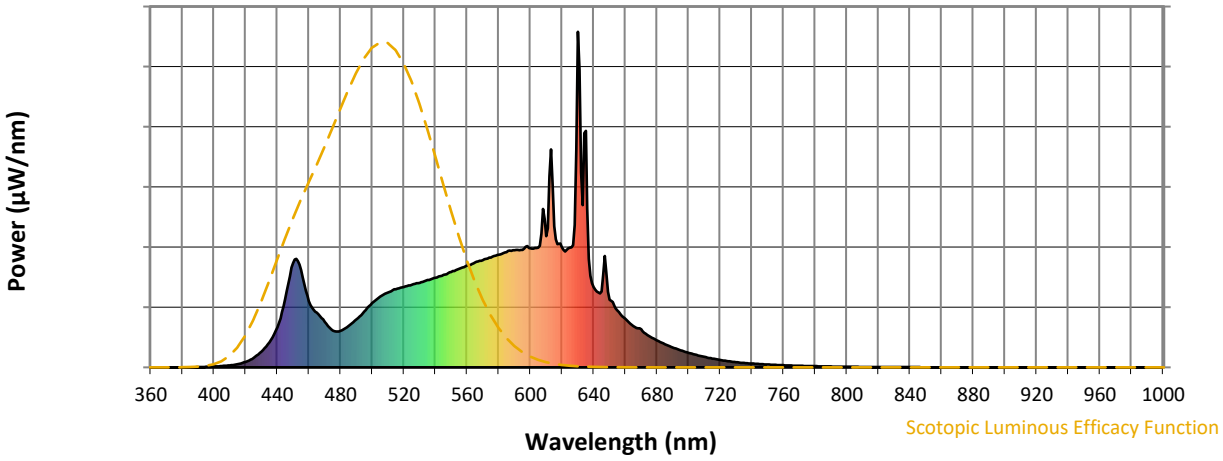


Photopic Lumens: NR

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	143	NR	620	358	NR	750	9	NR	880	0	NR
365	0	NR	495	166	NR	625	357	NR	755	7	NR	885	0	NR
370	0	NR	500	191	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	210	NR	635	705	NR	765	5	NR	895	0	NR
380	0	NR	510	223	NR	640	239	NR	770	5	NR	900	0	NR
385	0	NR	515	233	NR	645	226	NR	775	4	NR	905	0	NR
390	1	NR	520	240	NR	650	201	NR	780	3	NR	910	0	NR
395	2	NR	525	246	NR	655	170	NR	785	3	NR	915	0	NR
400	3	NR	530	251	NR	660	145	NR	790	2	NR	920	0	NR
405	4	NR	535	260	NR	665	123	NR	795	2	NR	925	0	NR
410	6	NR	540	267	NR	670	113	NR	800	2	NR	930	0	NR
415	9	NR	545	276	NR	675	93	NR	805	2	NR	935	0	NR
420	16	NR	550	284	NR	680	80	NR	810	1	NR	940	0	NR
425	28	NR	555	294	NR	685	69	NR	815	1	NR	945	0	NR
430	46	NR	560	303	NR	690	59	NR	820	1	NR	950	0	NR
435	75	NR	565	313	NR	695	51	NR	825	1	NR	955	0	NR
440	120	NR	570	319	NR	700	43	NR	830	1	NR	960	0	NR
445	203	NR	575	327	NR	705	37	NR	835	1	NR	965	0	NR
450	311	NR	580	336	NR	710	31	NR	840	1	NR	970	0	NR
455	290	NR	585	344	NR	715	26	NR	845	1	NR	975	0	NR
460	197	NR	590	349	NR	720	22	NR	850	0	NR	980	0	NR
465	163	NR	595	350	NR	725	18	NR	855	0	NR	985	0	NR
470	135	NR	600	355	NR	730	15	NR	860	0	NR	990	0	NR
475	110	NR	605	357	NR	735	13	NR	865	0	NR	995	0	NR
480	108	NR	610	391	NR	740	11	NR	870	0	NR	1000	0	NR
485	123	NR	615	421	NR	745	10	NR	875	0	NR			

REPORT NUMBER: SP1-2506-457-6

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.57**

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	143	NR	620	358	NR	750	9	NR	880	0	NR
365	0	NR	495	166	NR	625	357	NR	755	7	NR	885	0	NR
370	0	NR	500	191	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	210	NR	635	705	NR	765	5	NR	895	0	NR
380	0	NR	510	223	NR	640	239	NR	770	5	NR	900	0	NR
385	0	NR	515	233	NR	645	226	NR	775	4	NR	905	0	NR
390	1	NR	520	240	NR	650	201	NR	780	3	NR	910	0	NR
395	2	NR	525	246	NR	655	170	NR	785	3	NR	915	0	NR
400	3	NR	530	251	NR	660	145	NR	790	2	NR	920	0	NR
405	4	NR	535	260	NR	665	123	NR	795	2	NR	925	0	NR
410	6	NR	540	267	NR	670	113	NR	800	2	NR	930	0	NR
415	9	NR	545	276	NR	675	93	NR	805	2	NR	935	0	NR
420	16	NR	550	284	NR	680	80	NR	810	1	NR	940	0	NR
425	28	NR	555	294	NR	685	69	NR	815	1	NR	945	0	NR
430	46	NR	560	303	NR	690	59	NR	820	1	NR	950	0	NR
435	75	NR	565	313	NR	695	51	NR	825	1	NR	955	0	NR
440	120	NR	570	319	NR	700	43	NR	830	1	NR	960	0	NR
445	203	NR	575	327	NR	705	37	NR	835	1	NR	965	0	NR
450	311	NR	580	336	NR	710	31	NR	840	1	NR	970	0	NR
455	290	NR	585	344	NR	715	26	NR	845	1	NR	975	0	NR
460	197	NR	590	349	NR	720	22	NR	850	0	NR	980	0	NR
465	163	NR	595	350	NR	725	18	NR	855	0	NR	985	0	NR
470	135	NR	600	355	NR	730	15	NR	860	0	NR	990	0	NR
475	110	NR	605	357	NR	735	13	NR	865	0	NR	995	0	NR
480	108	NR	610	391	NR	740	11	NR	870	0	NR	1000	0	NR
485	123	NR	615	421	NR	745	10	NR	875	0	NR			

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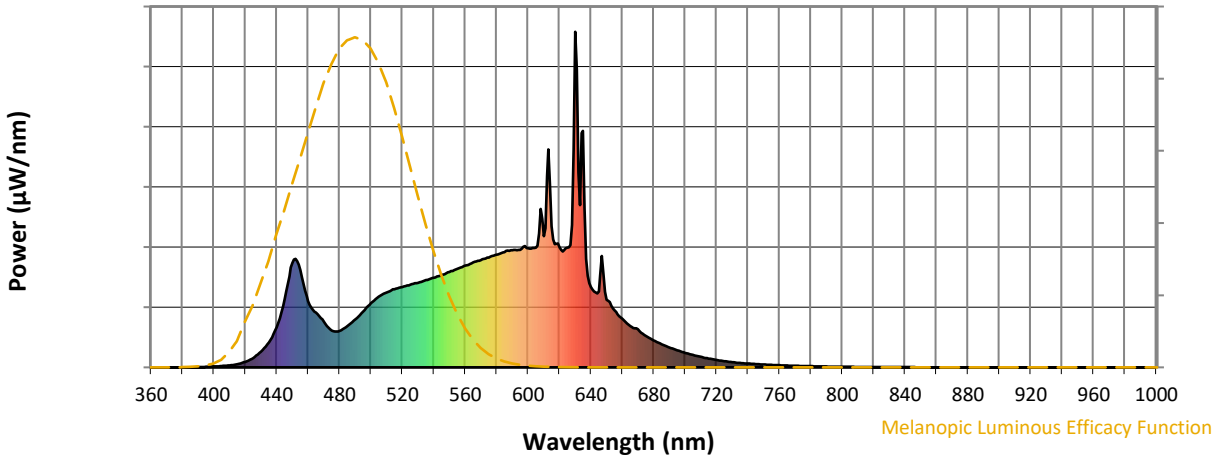
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.17**

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	143	NR	620	358	NR	750	9	NR	880	0	NR
365	0	NR	495	166	NR	625	357	NR	755	7	NR	885	0	NR
370	0	NR	500	191	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	210	NR	635	705	NR	765	5	NR	895	0	NR
380	0	NR	510	223	NR	640	239	NR	770	5	NR	900	0	NR
385	0	NR	515	233	NR	645	226	NR	775	4	NR	905	0	NR
390	1	NR	520	240	NR	650	201	NR	780	3	NR	910	0	NR
395	2	NR	525	246	NR	655	170	NR	785	3	NR	915	0	NR
400	3	NR	530	251	NR	660	145	NR	790	2	NR	920	0	NR
405	4	NR	535	260	NR	665	123	NR	795	2	NR	925	0	NR
410	6	NR	540	267	NR	670	113	NR	800	2	NR	930	0	NR
415	9	NR	545	276	NR	675	93	NR	805	2	NR	935	0	NR
420	16	NR	550	284	NR	680	80	NR	810	1	NR	940	0	NR
425	28	NR	555	294	NR	685	69	NR	815	1	NR	945	0	NR
430	46	NR	560	303	NR	690	59	NR	820	1	NR	950	0	NR
435	75	NR	565	313	NR	695	51	NR	825	1	NR	955	0	NR
440	120	NR	570	319	NR	700	43	NR	830	1	NR	960	0	NR
445	203	NR	575	327	NR	705	37	NR	835	1	NR	965	0	NR
450	311	NR	580	336	NR	710	31	NR	840	1	NR	970	0	NR
455	290	NR	585	344	NR	715	26	NR	845	1	NR	975	0	NR
460	197	NR	590	349	NR	720	22	NR	850	0	NR	980	0	NR
465	163	NR	595	350	NR	725	18	NR	855	0	NR	985	0	NR
470	135	NR	600	355	NR	730	15	NR	860	0	NR	990	0	NR
475	110	NR	605	357	NR	735	13	NR	865	0	NR	995	0	NR
480	108	NR	610	391	NR	740	11	NR	870	0	NR	1000	0	NR
485	123	NR	615	421	NR	745	10	NR	875	0	NR			

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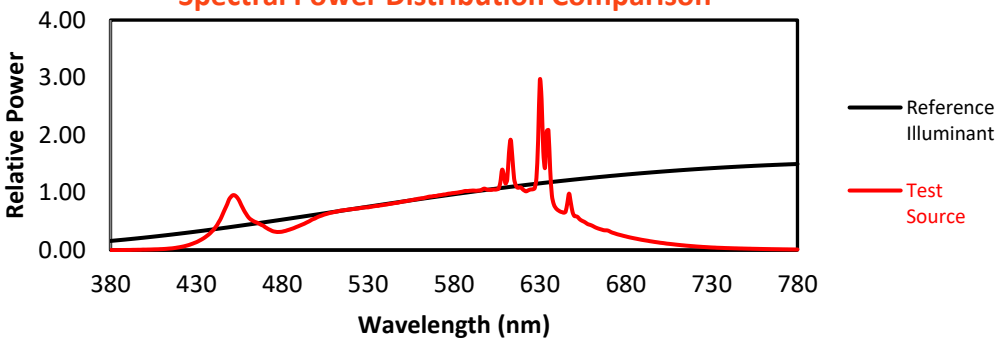
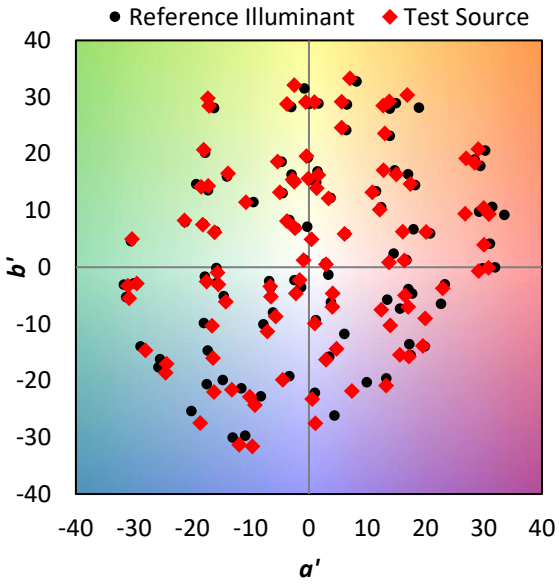
Summary

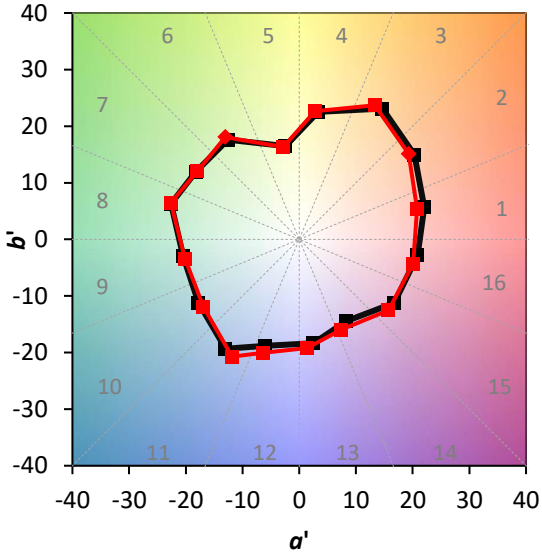
R_f = 91.4
R_g = 100.2
CIE R_a = 93.9
R_9 = 60.5

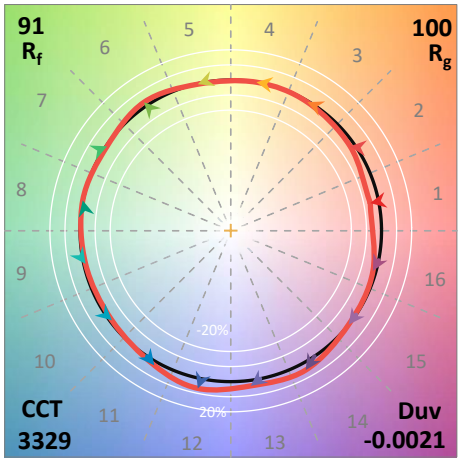
Spectral Power Distribution Comparison

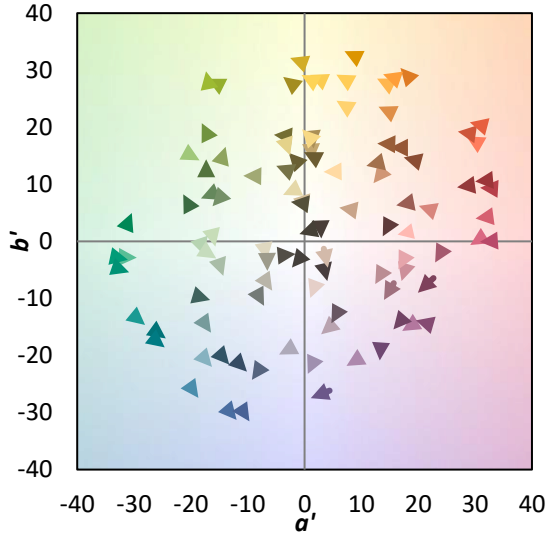


Color Vector Graphics









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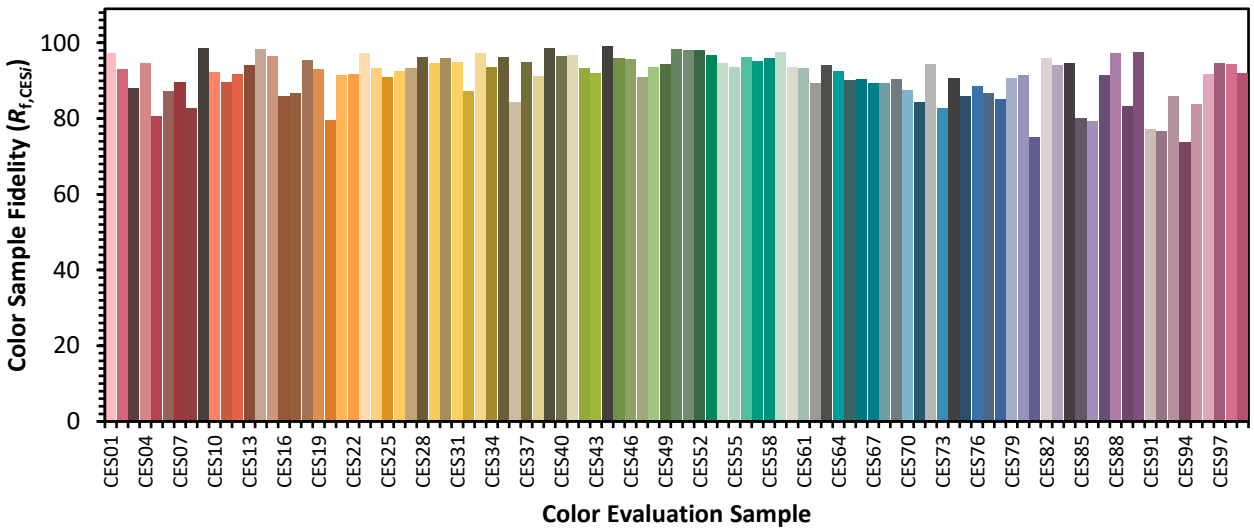
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 93	CES51 = 98	CES76 = 88
CES02 = 63	CES27 = 93	CES52 = 98	CES77 = 87
CES03 = 31	CES28 = 96	CES53 = 97	CES78 = 85
CES04 = 70	CES29 = 95	CES54 = 95	CES79 = 91
CES05 = 50	CES30 = 96	CES55 = 94	CES80 = 92
CES06 = 51	CES31 = 95	CES56 = 96	CES81 = 75
CES07 = 43	CES32 = 87	CES57 = 95	CES82 = 96
CES08 = 42	CES33 = 97	CES58 = 96	CES83 = 94
CES09 = 29	CES34 = 94	CES59 = 98	CES84 = 95
CES10 = 75	CES35 = 96	CES60 = 94	CES85 = 80
CES11 = 58	CES36 = 84	CES61 = 93	CES86 = 79
CES12 = 64	CES37 = 95	CES62 = 89	CES87 = 91
CES13 = 44	CES38 = 91	CES63 = 94	CES88 = 97
CES14 = 74	CES39 = 99	CES64 = 92	CES89 = 83
CES15 = 72	CES40 = 97	CES65 = 90	CES90 = 98
CES16 = 48	CES41 = 97	CES66 = 90	CES91 = 77
CES17 = 49	CES42 = 93	CES67 = 89	CES92 = 77
CES18 = 56	CES43 = 92	CES68 = 89	CES93 = 86
CES19 = 71	CES44 = 99	CES69 = 91	CES94 = 74
CES20 = 67	CES45 = 96	CES70 = 88	CES95 = 84
CES21 = 86	CES46 = 96	CES71 = 84	CES96 = 92
CES22 = 78	CES47 = 91	CES72 = 94	CES97 = 95
CES23 = 91	CES48 = 94	CES73 = 83	CES98 = 94
CES24 = 90	CES49 = 94	CES74 = 91	CES99 = 92
CES25 = 71	CES50 = 98	CES75 = 86	



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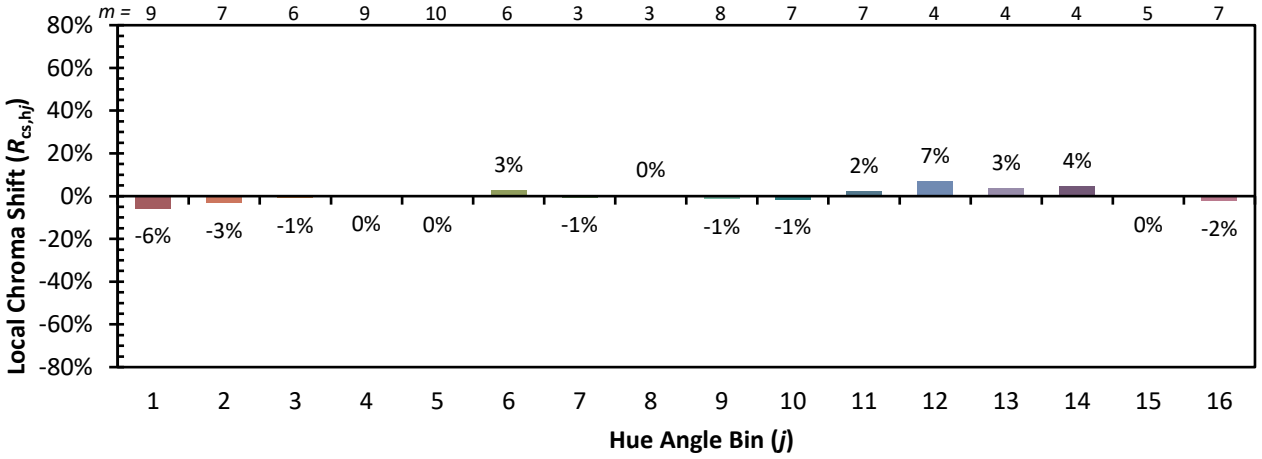
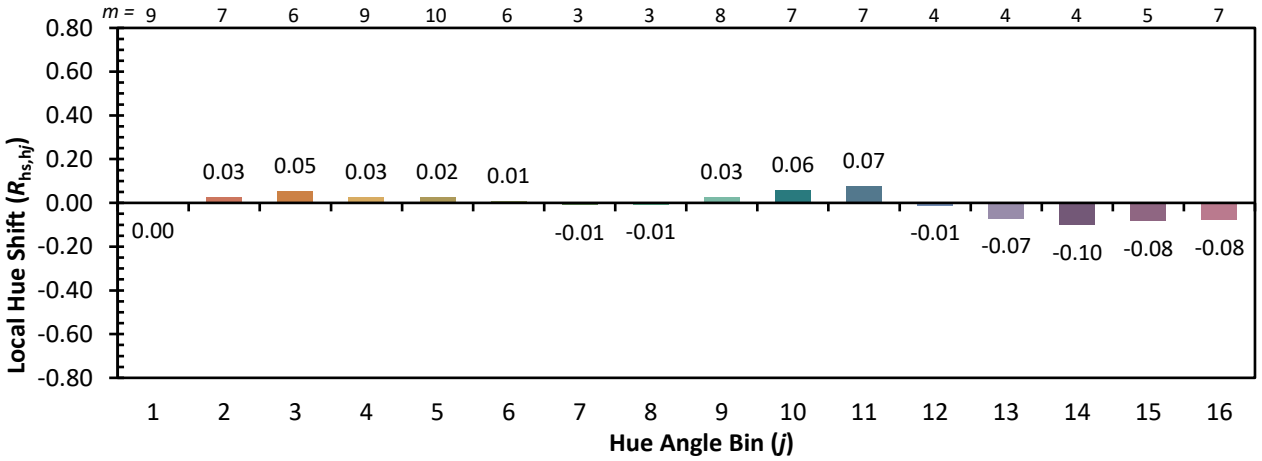
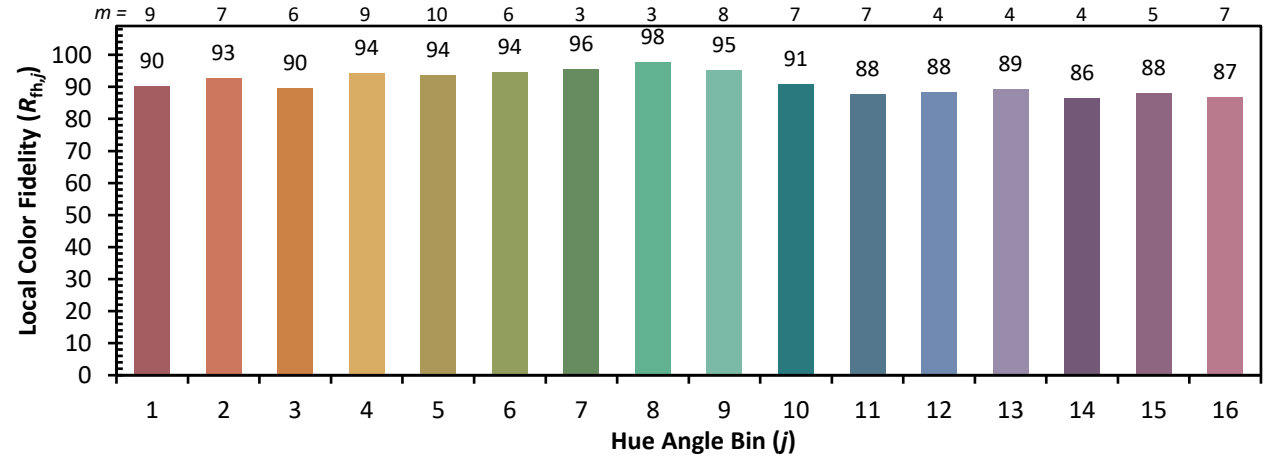
Color Rendition by Hue-Angle Bin







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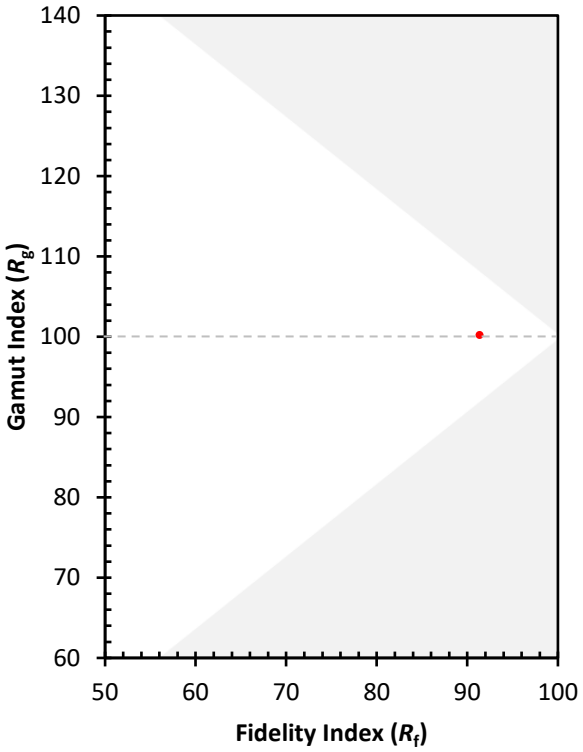
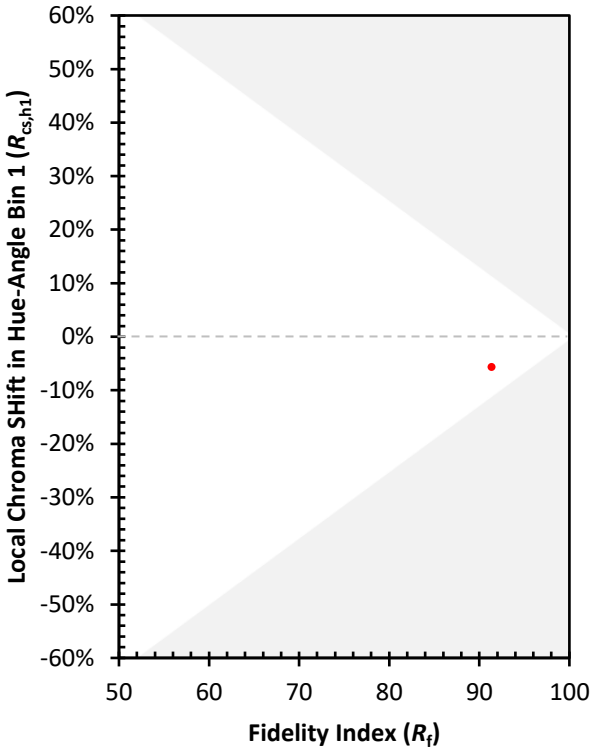
Measure Comparisons





(END OF REPORT)