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: IRiS

Report Number: P1261723

Luminaire Tested: P3A02R709727DE010 E3LDWW1H

Issue Date: 1/29/2026

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:	P1261723
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-13)
Test Lab:	INNOVATION CENTER
Issue Date:	1/29/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	IRiS
Catalog Number:	P3A02R709727DE010 E3LDWW1H
Description:	3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 97CRI , E3LDWW1H TRIM
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	180.0 lumens
Efficiency:	N/A
Efficacy:	50.0 lumens/watt
Spacing Criteria (0/90/45):	0.87 / 0.89 / 0.97
Luminous Opening:	Circular (Dia: 0.25' x H: 0')
CIE Type:	Direct

Input Watts (W):	3.6
Input Voltage (V):	NR
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: P1261723
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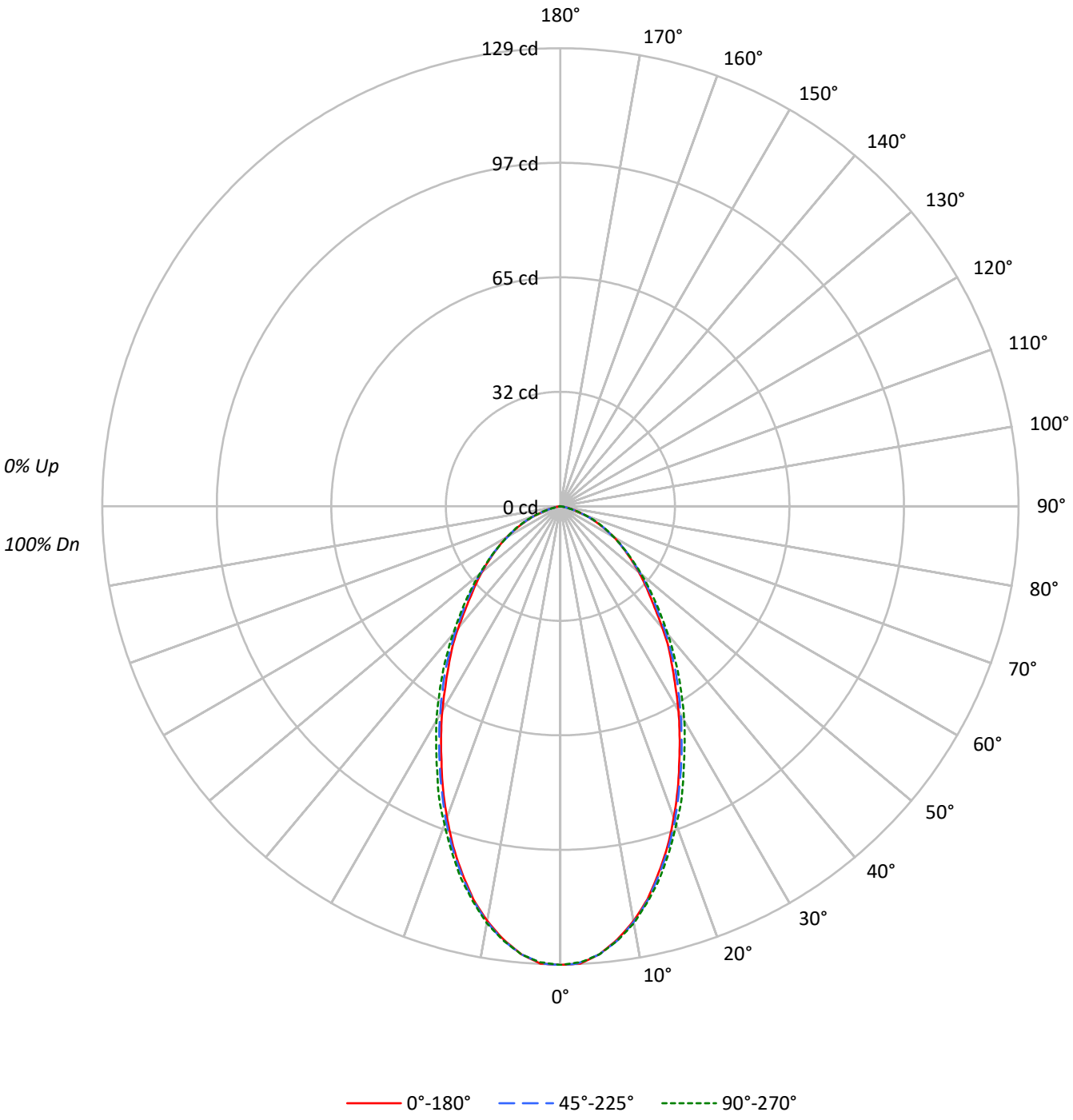
Luminous Intensity Polar Plot



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TEST NUMBER: P1261723
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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	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	75	70	65	73	68	64	71	67	63	61
5	83	72	64	59	81	71	64	59	69	63	58	67	62	57	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	60	55	51	50
7	73	61	53	48	71	60	53	48	59	52	47	57	52	47	56	51	47	45
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28331	28331	28331
5°	27867	27867	27867
10°	26408	26475	26541
15°	24268	24382	24586
20°	21772	21982	22262
25°	19162	19453	19864
30°	16838	17142	17674
35°	14670	15125	15526
40°	12795	13139	13482
45°	11040	11412	11691
50°	9825	10030	10132
55°	8678	8793	8793
60°	7631	7499	7631
65°	6278	6434	6590
70°	4937	4937	5065
75°	3219	2965	2965
80°	1894	1515	1137
85°	755	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 75°
Vertical Angle: 45°
Luminance: 11691 cd/sqm

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TEST NUMBER: P1261723
CATALOG NUMBER: P3A02R709727DE010 E3LDWW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.8	6.6
10°-20°	30.0	16.7
20°-30°	37.0	20.6
30°-40°	35.3	19.6
40°-50°	28.5	15.8
50°-60°	20.6	11.4
60°-70°	12.3	6.8
70°-80°	4.1	2.3
80°-90°	0.4	0.2
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°	78.9	43.8
0°-40°	114.1	63.4
0°-60°	163.2	90.7
0°-90°	180.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	180.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	129	129	129	129	129	
5°	127	127	127	127	127	12
15°	107	107	107	108	108	30
25°	79	80	80	82	82	36
35°	55	55	56	58	58	34
45°	36	36	37	37	38	28
55°	23	23	23	23	23	20
65°	12	12	12	13	13	12
75°	4	4	4	4	4	4
85°	0	0	0	0	0	1
90°	0	0	0	0	0	

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TEST NUMBER: P1261723
CATALOG NUMBER: P3A02R709727DE010 E3LDWW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	129.2	129.2	129.2	129.2	129.2	129.2	129.2	129.2	129.2	129.2	129.2
2°	128.9	128.9	128.9	128.9	128.9	128.9	128.9	128.9	128.9	128.9	128.6
2.5°	128.9	128.6	128.6	128.6	128.6	128.6	128.6	128.6	128.6	128.9	128.6
5°	126.6	126.6	126.6	126.6	126.6	126.6	126.6	126.6	126.9	126.6	126.6
7.5°	123.0	123.0	123.0	123.0	123.3	123.3	123.3	123.3	123.6	123.6	123.3
10°	118.6	118.6	118.6	118.6	118.9	118.9	119.2	118.9	118.9	119.2	119.2
12.5°	113.3	113.0	113.0	113.0	113.3	113.6	113.6	113.6	113.9	113.9	113.9
15°	106.9	106.9	106.9	107.2	107.2	107.4	107.7	107.7	108.0	108.0	108.3
17.5°	100.4	100.4	100.1	100.4	100.7	101.0	101.3	101.6	101.9	101.9	101.9
20°	93.3	93.0	93.3	93.6	93.9	94.2	94.5	95.1	95.4	95.4	95.4
22.5°	86.3	86.0	86.3	86.5	86.8	87.1	88.0	88.3	88.6	88.6	89.2
25°	79.2	79.2	79.5	79.8	80.1	80.4	81.0	81.5	81.8	82.1	82.1
27.5°	72.7	72.7	72.7	72.7	73.3	73.9	74.5	75.1	75.4	75.7	75.7
30°	66.5	66.2	66.2	66.5	67.1	67.7	68.3	68.9	69.2	69.5	69.8
32.5°	60.3	60.3	60.3	60.6	60.9	61.8	62.4	62.7	63.3	63.6	63.6
35°	54.8	54.8	54.8	55.3	55.9	56.5	56.8	57.4	58.0	58.0	58.0
37.5°	50.0	50.3	50.9	50.6	50.6	50.9	51.2	51.8	52.4	52.4	52.4
40°	44.7	45.0	45.3	45.0	45.3	45.9	46.2	46.5	46.8	47.1	47.1
42.5°	39.7	39.7	39.7	40.0	40.6	40.9	41.5	41.8	42.1	42.1	42.1
45°	35.6	35.6	35.9	36.2	36.5	36.8	37.1	37.4	37.7	37.7	37.7
47.5°	32.1	32.1	32.4	32.4	32.7	33.0	33.3	33.3	33.6	33.9	33.6
50°	28.8	28.8	28.8	29.1	29.1	29.4	29.4	29.7	29.7	29.7	29.7
52.5°	25.6	25.6	25.6	25.6	25.9	25.9	25.9	26.2	26.2	26.2	26.2
55°	22.7	22.7	22.7	22.7	22.7	23.0	23.0	23.0	23.0	23.0	23.0
57.5°	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
60°	17.4	17.4	17.4	17.4	17.4	17.1	17.4	17.4	17.4	17.4	17.4
62.5°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	15.0	15.0	15.0	15.0
65°	12.1	12.4	12.4	12.4	12.4	12.4	12.4	12.7	12.7	12.7	12.7
67.5°	9.7	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.3	10.3	10.3
70°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.9
72.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.6	5.6	5.6
75°	3.8	3.8	3.8	3.8	3.5	3.5	3.5	3.5	3.5	3.5	3.5
77.5°	2.6	2.6	2.6	2.4	2.4	2.1	2.1	2.1	2.1	2.1	1.8
80°	1.5	1.5	1.5	1.5	1.5	1.2	1.2	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3
85°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Report Prepared for

Cooper Lighting Solutions

IRiS

Report Number: SP1-2504-409-16

Test Date: 05/14/2025

Luminaire Tested: LD3A10R129727D010 E3D1H

Data in this report applies to families of products including LD3A

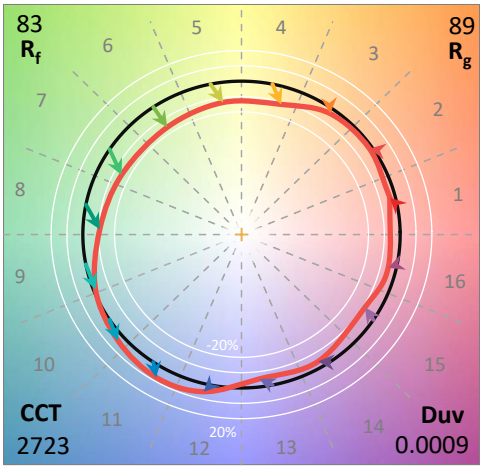
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2504-409-16
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	09/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	IRiS
Catalog Number:	**LD3A10R129727D010 E3D1H**
Description:	3in Adjustabled LED luminaire with, R12 optic, 2700K CCT AND, 97CRI LEDS, E3D1H TRIM

Spectral Parameters

CCT (K):	2723	CRI (Ra):	96.9		
CIE u':	0.2613	R1:	98.6	R9:	84.8
CIE v':	0.5282	R2:	97.5	R10:	92.7
Duv:	0.0009	R3:	94.4	R11:	96.3
CIE x:	0.4595	R4:	97.7	R12:	86.1
CIE y:	0.4129	R5:	97.8	R13:	98.3
CIE z:	0.1277	R6:	97.1	R14:	95.8
Peak Wavelength (nm):	717	R7:	97.7	R15:	96.2
Dominant Wavelength (nm):	583	R8:	94.3		
Purity:	61.85051				
Rf:	83				
Rg:	88.7				



Test Conditions

Stabilization Time:	41M
Operation Time:	1H 41M
Sphere Temperature (°C):	25.3

REPORT NUMBER: SP1-2504-409-16

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

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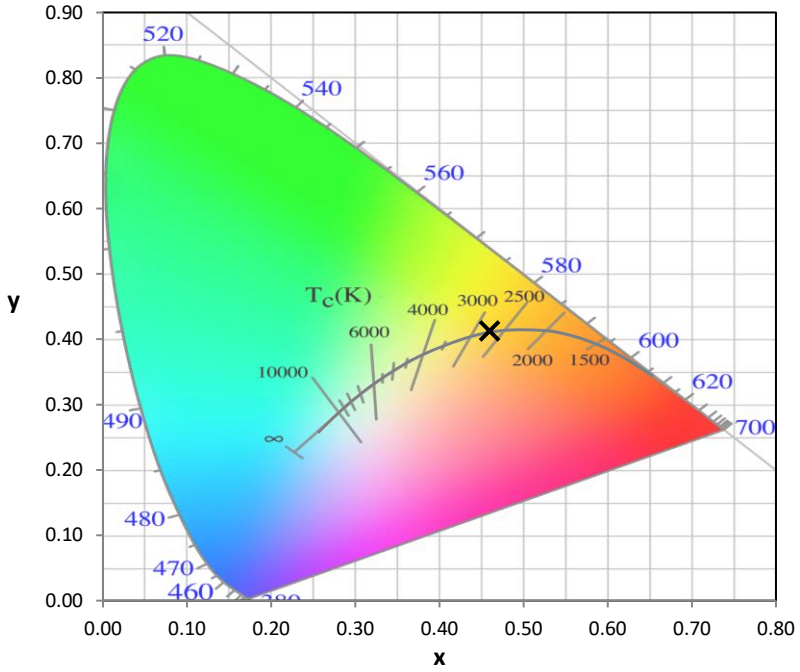
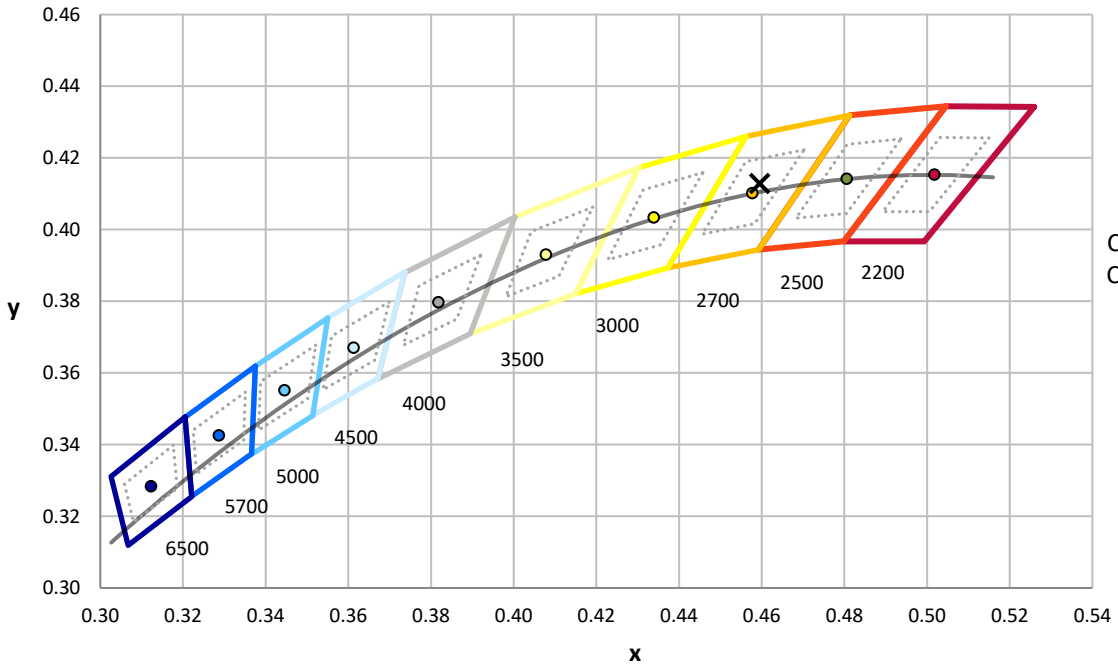
CIE 1931 Chromaticity Diagram



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

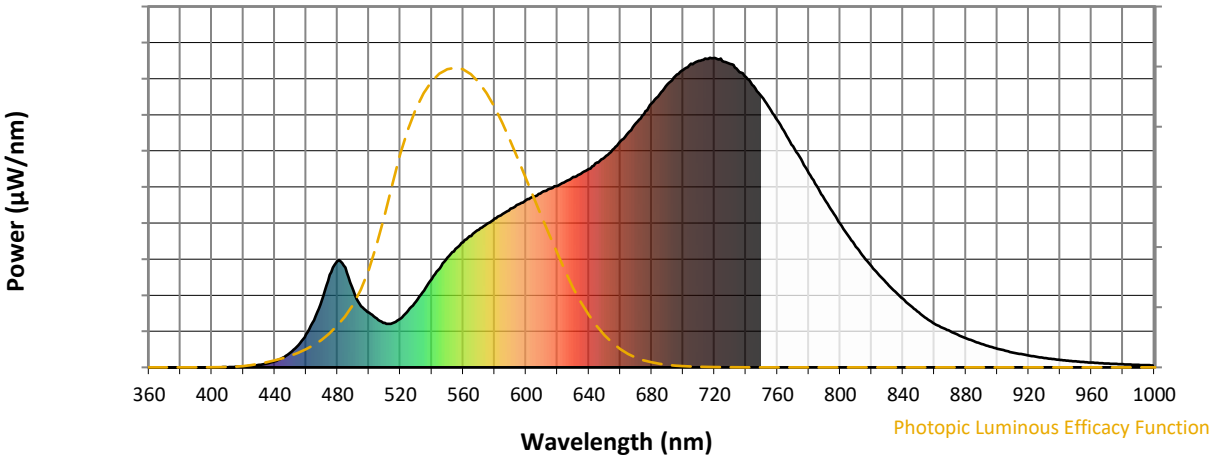


CCT = 2723K
CIE x = 0.4595
CIE y = 0.4129
Duv = 0.0009

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2504-409-16

Photopic Flux vs. Wavelength

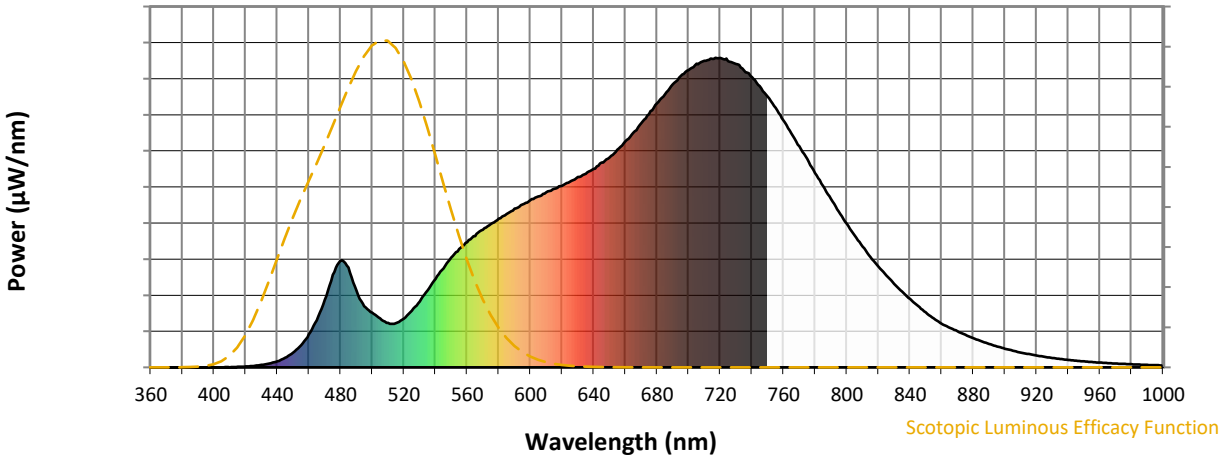


Photopic Lumens: NR

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	248	NR	620	586	NR	750	874	NR	880	95	NR
365	0	NR	495	198	NR	625	600	NR	755	838	NR	885	84	NR
370	0	NR	500	176	NR	630	614	NR	760	798	NR	890	76	NR
375	0	NR	505	158	NR	635	625	NR	765	756	NR	895	67	NR
380	0	NR	510	144	NR	640	641	NR	770	714	NR	900	60	NR
385	0	NR	515	142	NR	645	661	NR	775	673	NR	905	54	NR
390	0	NR	520	157	NR	650	678	NR	780	627	NR	910	48	NR
395	0	NR	525	183	NR	655	703	NR	785	586	NR	915	43	NR
400	0	NR	530	213	NR	660	729	NR	790	544	NR	920	38	NR
405	0	NR	535	248	NR	665	758	NR	795	504	NR	925	34	NR
410	1	NR	540	286	NR	670	789	NR	800	464	NR	930	30	NR
415	2	NR	545	320	NR	675	818	NR	805	426	NR	935	27	NR
420	3	NR	550	354	NR	680	853	NR	810	390	NR	940	24	NR
425	5	NR	555	382	NR	685	881	NR	815	357	NR	945	22	NR
430	8	NR	560	405	NR	690	914	NR	820	326	NR	950	19	NR
435	12	NR	565	424	NR	695	941	NR	825	297	NR	955	17	NR
440	20	NR	570	445	NR	700	960	NR	830	270	NR	960	16	NR
445	31	NR	575	463	NR	705	980	NR	835	245	NR	965	14	NR
450	47	NR	580	481	NR	710	990	NR	840	221	NR	970	12	NR
455	72	NR	585	495	NR	715	996	NR	845	199	NR	975	11	NR
460	107	NR	590	512	NR	720	1000	NR	850	178	NR	980	10	NR
465	152	NR	595	526	NR	725	989	NR	855	158	NR	985	9	NR
470	218	NR	600	540	NR	730	980	NR	860	141	NR	990	8	NR
475	298	NR	605	552	NR	735	959	NR	865	128	NR	995	7	NR
480	344	NR	610	565	NR	740	937	NR	870	117	NR	1000	0	NR
485	323	NR	615	577	NR	745	909	NR	875	105	NR			

REPORT NUMBER: SP1-2504-409-16

Scotopic Flux vs. Wavelength

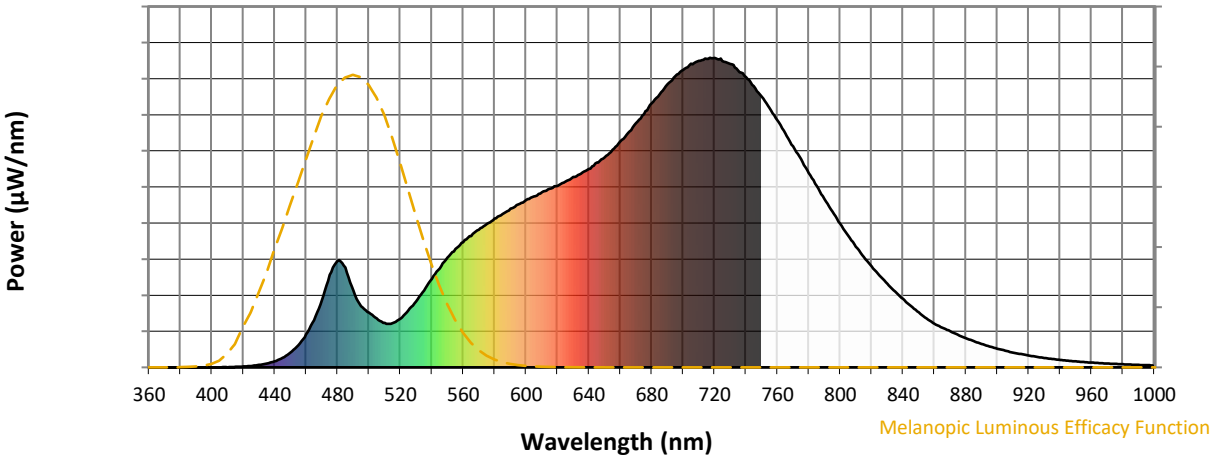


Scotopic Lumens: NR **S/P: 1.26**

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	248	NR	620	586	NR	750	874	NR	880	95	NR
365	0	NR	495	198	NR	625	600	NR	755	838	NR	885	84	NR
370	0	NR	500	176	NR	630	614	NR	760	798	NR	890	76	NR
375	0	NR	505	158	NR	635	625	NR	765	756	NR	895	67	NR
380	0	NR	510	144	NR	640	641	NR	770	714	NR	900	60	NR
385	0	NR	515	142	NR	645	661	NR	775	673	NR	905	54	NR
390	0	NR	520	157	NR	650	678	NR	780	627	NR	910	48	NR
395	0	NR	525	183	NR	655	703	NR	785	586	NR	915	43	NR
400	0	NR	530	213	NR	660	729	NR	790	544	NR	920	38	NR
405	0	NR	535	248	NR	665	758	NR	795	504	NR	925	34	NR
410	1	NR	540	286	NR	670	789	NR	800	464	NR	930	30	NR
415	2	NR	545	320	NR	675	818	NR	805	426	NR	935	27	NR
420	3	NR	550	354	NR	680	853	NR	810	390	NR	940	24	NR
425	5	NR	555	382	NR	685	881	NR	815	357	NR	945	22	NR
430	8	NR	560	405	NR	690	914	NR	820	326	NR	950	19	NR
435	12	NR	565	424	NR	695	941	NR	825	297	NR	955	17	NR
440	20	NR	570	445	NR	700	960	NR	830	270	NR	960	16	NR
445	31	NR	575	463	NR	705	980	NR	835	245	NR	965	14	NR
450	47	NR	580	481	NR	710	990	NR	840	221	NR	970	12	NR
455	72	NR	585	495	NR	715	996	NR	845	199	NR	975	11	NR
460	107	NR	590	512	NR	720	1000	NR	850	178	NR	980	10	NR
465	152	NR	595	526	NR	725	989	NR	855	158	NR	985	9	NR
470	218	NR	600	540	NR	730	980	NR	860	141	NR	990	8	NR
475	298	NR	605	552	NR	735	959	NR	865	128	NR	995	7	NR
480	344	NR	610	565	NR	740	937	NR	870	117	NR	1000	0	NR
485	323	NR	615	577	NR	745	909	NR	875	105	NR			

REPORT NUMBER: SP1-2504-409-16

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.51**

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	248	NR	620	586	NR	750	874	NR	880	95	NR
365	0	NR	495	198	NR	625	600	NR	755	838	NR	885	84	NR
370	0	NR	500	176	NR	630	614	NR	760	798	NR	890	76	NR
375	0	NR	505	158	NR	635	625	NR	765	756	NR	895	67	NR
380	0	NR	510	144	NR	640	641	NR	770	714	NR	900	60	NR
385	0	NR	515	142	NR	645	661	NR	775	673	NR	905	54	NR
390	0	NR	520	157	NR	650	678	NR	780	627	NR	910	48	NR
395	0	NR	525	183	NR	655	703	NR	785	586	NR	915	43	NR
400	0	NR	530	213	NR	660	729	NR	790	544	NR	920	38	NR
405	0	NR	535	248	NR	665	758	NR	795	504	NR	925	34	NR
410	1	NR	540	286	NR	670	789	NR	800	464	NR	930	30	NR
415	2	NR	545	320	NR	675	818	NR	805	426	NR	935	27	NR
420	3	NR	550	354	NR	680	853	NR	810	390	NR	940	24	NR
425	5	NR	555	382	NR	685	881	NR	815	357	NR	945	22	NR
430	8	NR	560	405	NR	690	914	NR	820	326	NR	950	19	NR
435	12	NR	565	424	NR	695	941	NR	825	297	NR	955	17	NR
440	20	NR	570	445	NR	700	960	NR	830	270	NR	960	16	NR
445	31	NR	575	463	NR	705	980	NR	835	245	NR	965	14	NR
450	47	NR	580	481	NR	710	990	NR	840	221	NR	970	12	NR
455	72	NR	585	495	NR	715	996	NR	845	199	NR	975	11	NR
460	107	NR	590	512	NR	720	1000	NR	850	178	NR	980	10	NR
465	152	NR	595	526	NR	725	989	NR	855	158	NR	985	9	NR
470	218	NR	600	540	NR	730	980	NR	860	141	NR	990	8	NR
475	298	NR	605	552	NR	735	959	NR	865	128	NR	995	7	NR
480	344	NR	610	565	NR	740	937	NR	870	117	NR	1000	0	NR
485	323	NR	615	577	NR	745	909	NR	875	105	NR			

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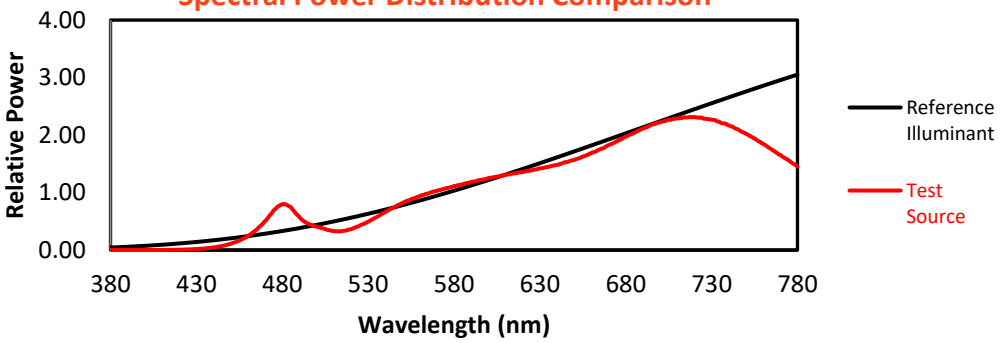
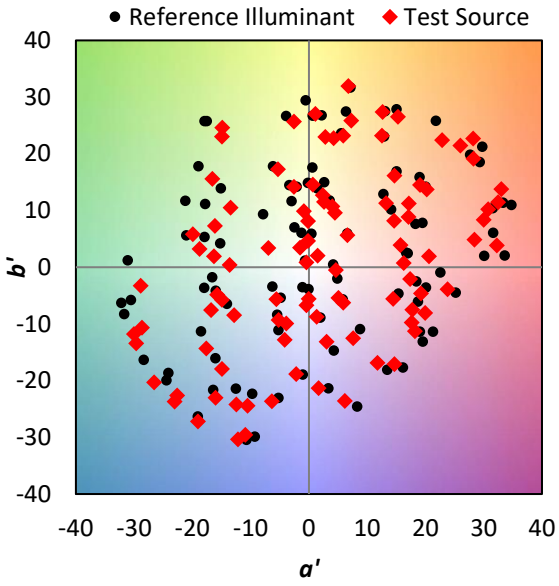
Summary

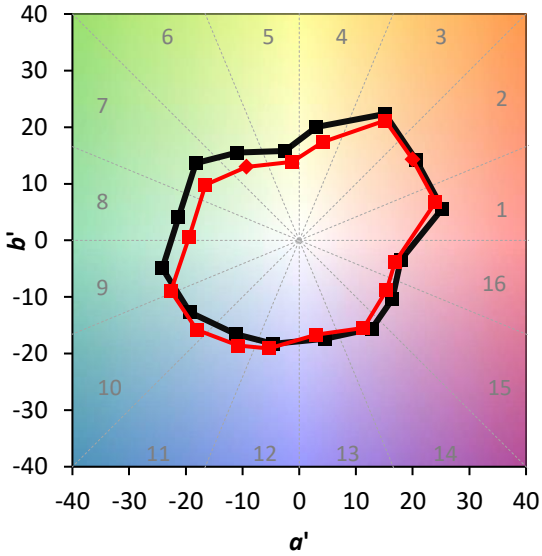
R_f = 83
R_g = 88.7
CIE R_a = 96.9
R_9 = 84.8

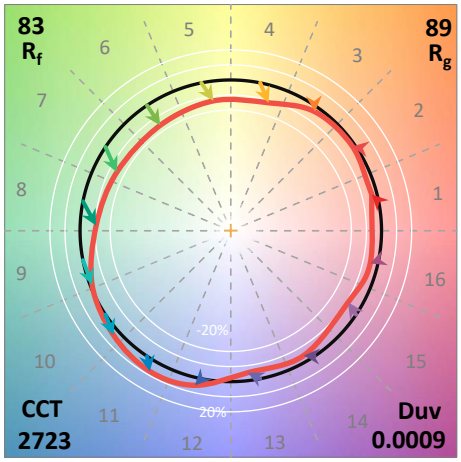
Spectral Power Distribution Comparison

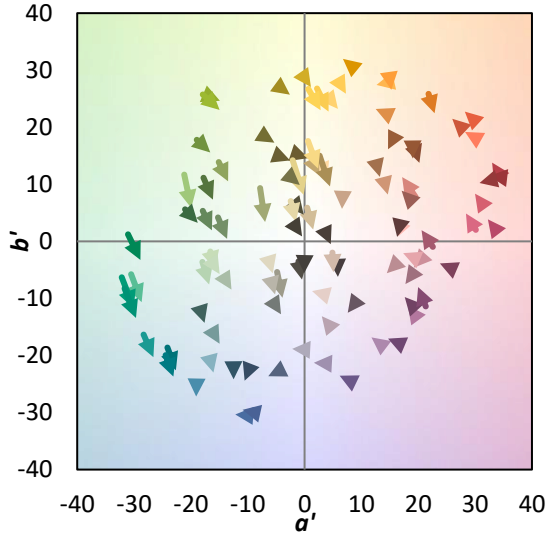


Color Vector Graphics









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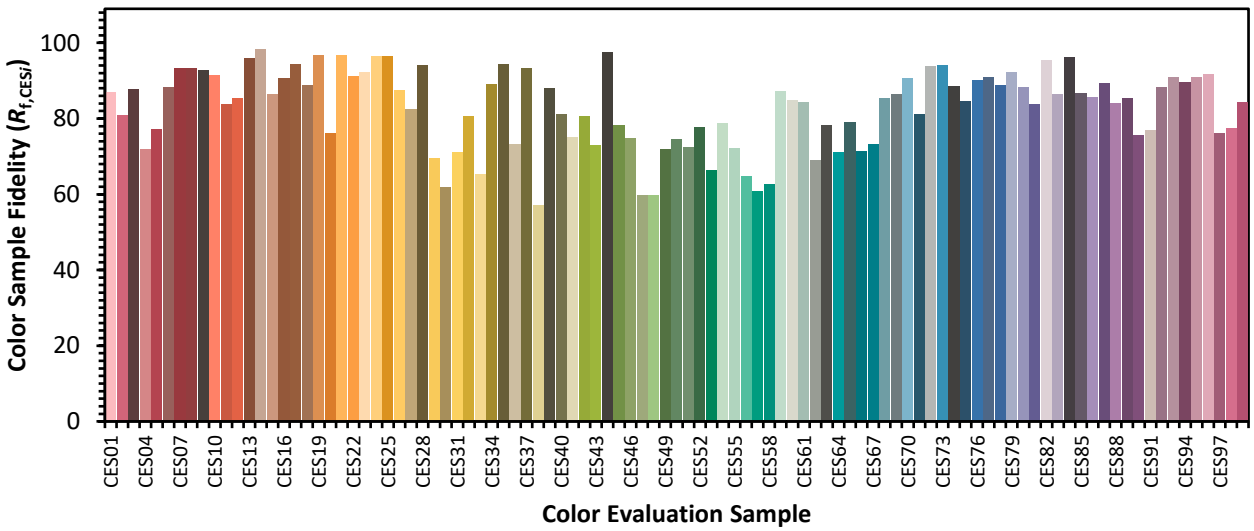
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 87	CES26 = 88	CES51 = 73	CES76 = 90
CES02 = 64	CES27 = 82	CES52 = 78	CES77 = 91
CES03 = 32	CES28 = 94	CES53 = 66	CES78 = 89
CES04 = 71	CES29 = 70	CES54 = 79	CES79 = 92
CES05 = 53	CES30 = 62	CES55 = 72	CES80 = 88
CES06 = 52	CES31 = 71	CES56 = 65	CES81 = 84
CES07 = 45	CES32 = 81	CES57 = 61	CES82 = 95
CES08 = 44	CES33 = 65	CES58 = 63	CES83 = 86
CES09 = 29	CES34 = 89	CES59 = 87	CES84 = 96
CES10 = 77	CES35 = 94	CES60 = 85	CES85 = 87
CES11 = 60	CES36 = 73	CES61 = 84	CES86 = 86
CES12 = 66	CES37 = 93	CES62 = 69	CES87 = 89
CES13 = 44	CES38 = 57	CES63 = 78	CES88 = 84
CES14 = 74	CES39 = 88	CES64 = 71	CES89 = 85
CES15 = 72	CES40 = 81	CES65 = 79	CES90 = 76
CES16 = 49	CES41 = 75	CES66 = 71	CES91 = 77
CES17 = 51	CES42 = 81	CES67 = 73	CES92 = 88
CES18 = 57	CES43 = 73	CES68 = 85	CES93 = 91
CES19 = 73	CES44 = 98	CES69 = 87	CES94 = 90
CES20 = 68	CES45 = 78	CES70 = 91	CES95 = 91
CES21 = 87	CES46 = 75	CES71 = 81	CES96 = 92
CES22 = 80	CES47 = 60	CES72 = 94	CES97 = 76
CES23 = 92	CES48 = 60	CES73 = 94	CES98 = 78
CES24 = 91	CES49 = 72	CES74 = 89	CES99 = 84
CES25 = 72	CES50 = 75	CES75 = 85	



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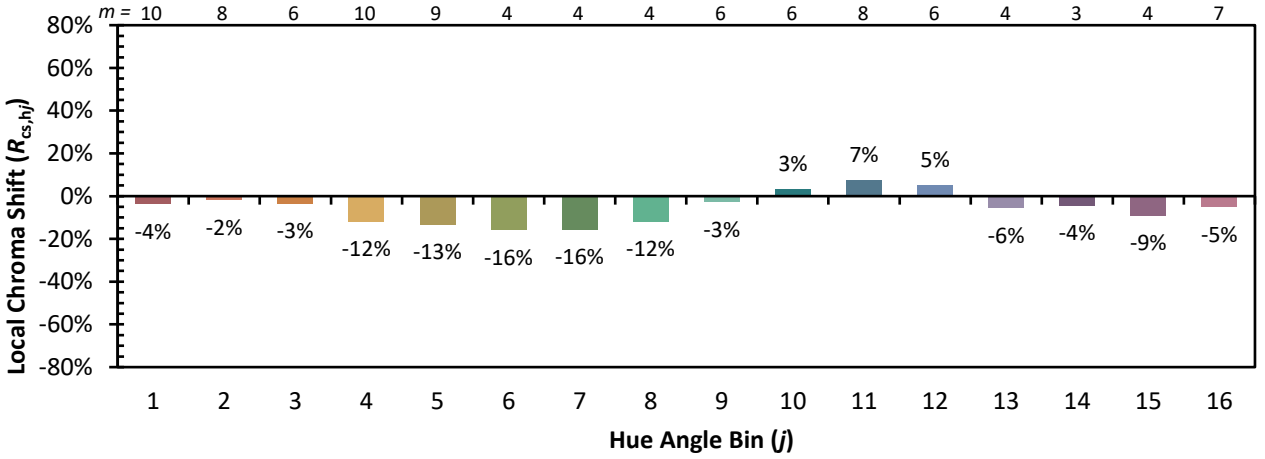
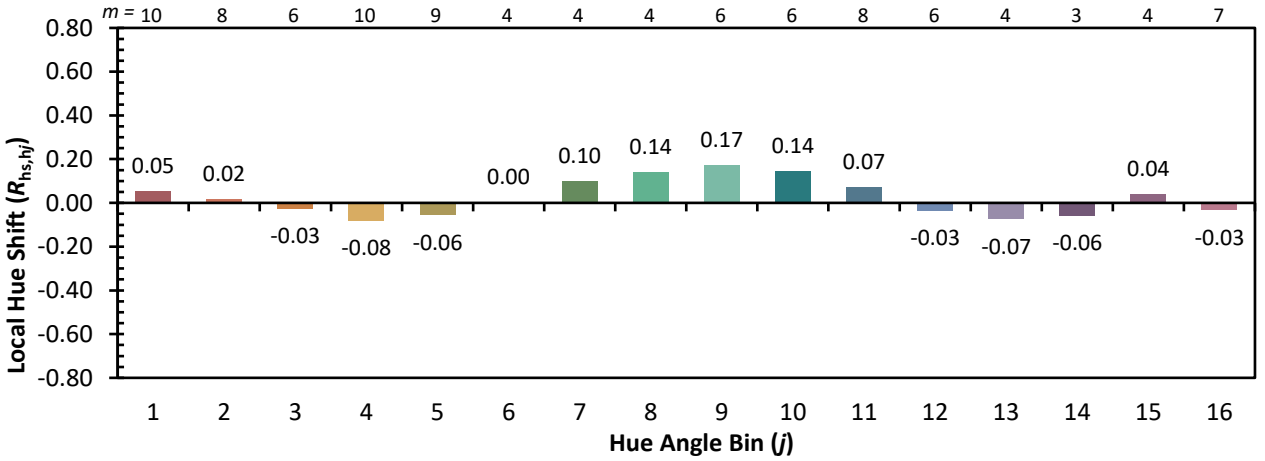
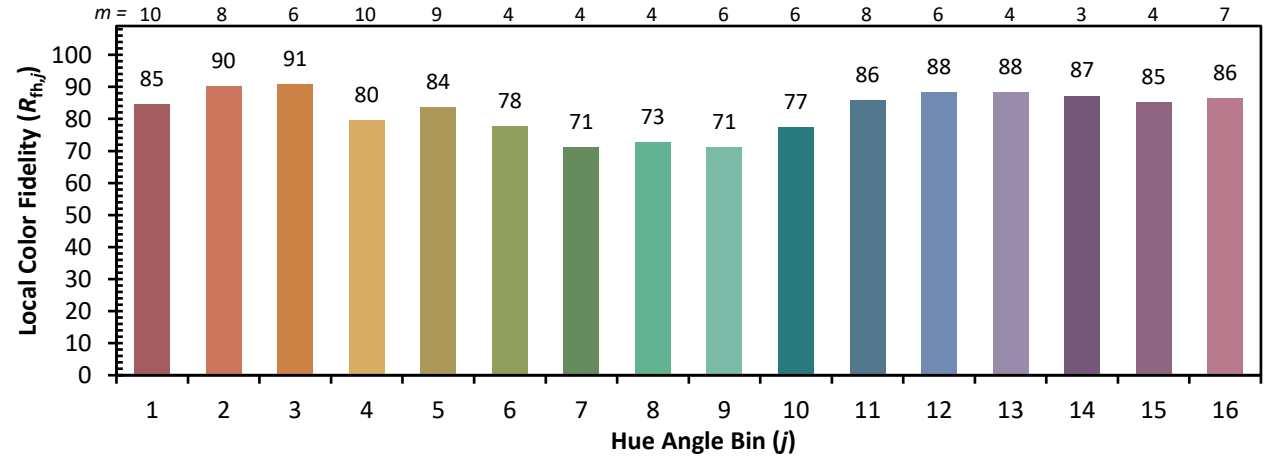
Color Rendition by Hue-Angle Bin







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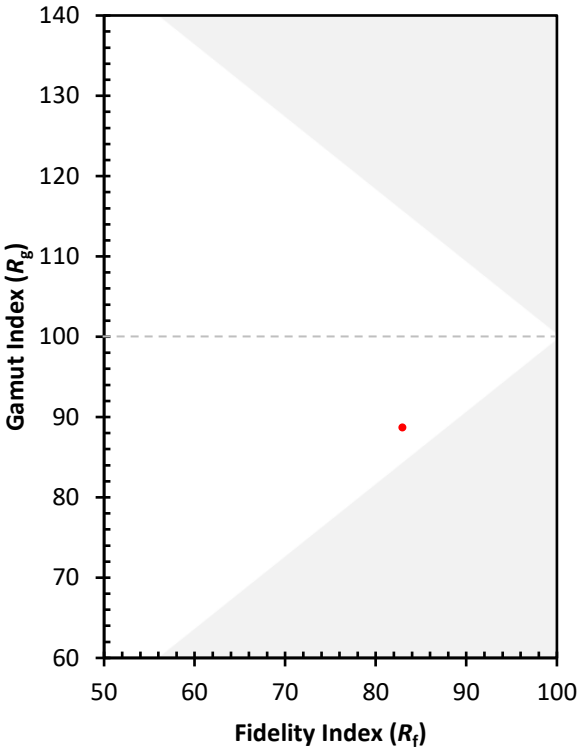
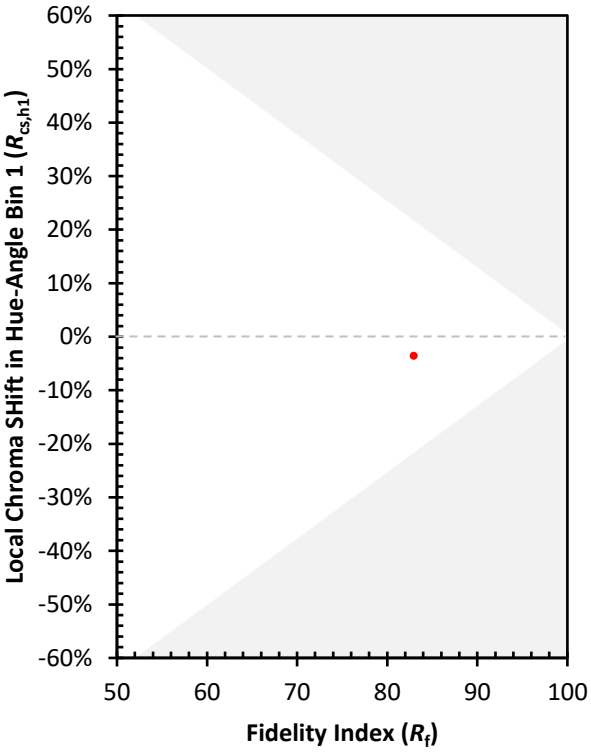
Measure Comparisons





(END OF REPORT)