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: P1257616

Luminaire Tested: P3A13R709040DE010 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:	P1257616
	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:	P3A13R709040DE010 E3LDWW1H
Description:	3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 90CRI , E3LDWW1H TRIM
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	923.0 lumens
Efficiency:	N/A
Efficacy:	63.2 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):	14.6
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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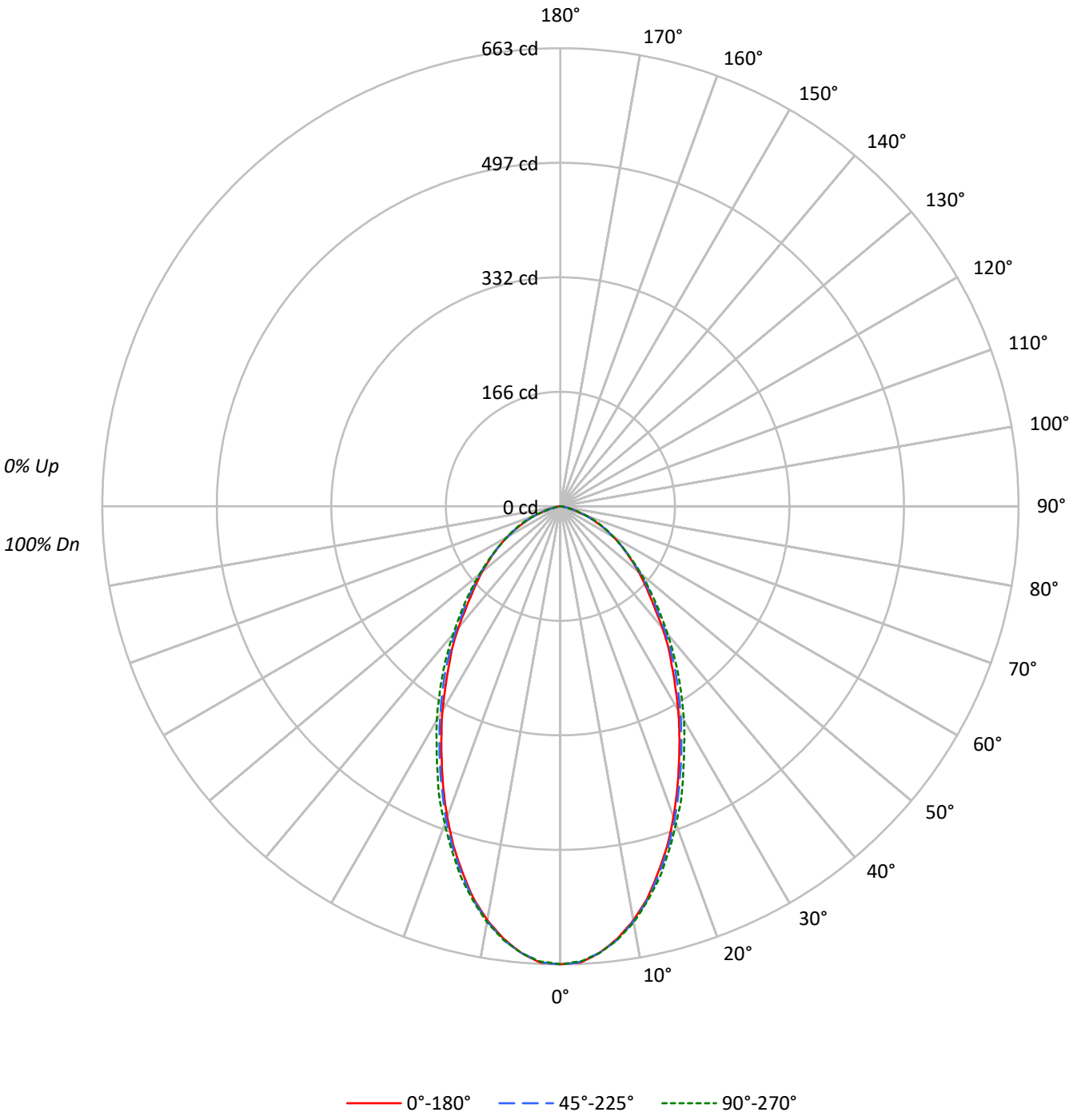
Scaled Data Report

TEST NUMBER: P1257616
CATALOG NUMBER: P3A13R709040DE010 E3LDWW1H

Luminous Intensity Polar Plot



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Scaled Data Report

TEST NUMBER: P1257616
CATALOG NUMBER: P3A13R709040DE010 E3LDWW1H

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	76	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	61	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°	145317	145317	145317
5°	142879	142879	142879
10°	135446	135780	136114
15°	124382	125086	126107
20°	111660	112710	114133
25°	98256	99707	101909
30°	86368	87912	90596
35°	75168	77577	79612
40°	65666	67412	69130
45°	56626	58518	59913
50°	50455	51512	52024
55°	44424	44997	44997
60°	39076	38418	39076
65°	32118	32896	33674
70°	25132	25132	26158
75°	16606	15335	15335
80°	9471	7577	5683
85°	3774	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 75°
Vertical Angle: 45°
Luminance: 59913 cd/sqm

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Scaled Data Report

TEST NUMBER: P1257616
CATALOG NUMBER: P3A13R709040DE010 E3LDWW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.7	6.6
10°-20°	153.9	16.7
20°-30°	189.8	20.6
30°-40°	180.9	19.6
40°-50°	146.3	15.9
50°-60°	105.4	11.4
60°-70°	63.1	6.8
70°-80°	21.1	2.3
80°-90°	1.8	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°	404.4	43.8
0°-40°	585.3	63.4
0°-60°	836.9	90.7
0°-90°	923.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	923.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	663	663	663	663	663	
5°	649	649	649	649	649	61
15°	548	549	551	553	556	153
25°	406	409	412	418	421	187
35°	281	283	290	295	297	176
45°	183	185	189	192	193	142
55°	116	116	118	118	118	105
65°	62	63	63	65	65	62
75°	20	20	18	18	18	22
85°	2	2	0	0	0	3
90°	0	0	0	0	0	

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TEST NUMBER: P1257616
CATALOG NUMBER: P3A13R709040DE010 E3LDWW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	662.7	662.7	662.7	662.7	662.7	662.7	662.7	662.7	662.7	662.7	662.7
2°	661.2	661.2	661.2	661.2	661.2	661.2	661.2	661.2	661.2	661.2	659.7
2.5°	661.2	659.7	659.7	659.7	659.7	659.7	659.7	659.7	659.7	661.2	659.7
5°	649.1	649.1	649.1	649.1	649.1	649.1	649.1	649.1	650.6	649.1	649.1
7.5°	631.0	631.0	631.0	631.0	632.5	632.5	632.5	632.5	634.0	634.0	632.5
10°	608.3	608.3	608.3	608.3	609.8	609.8	611.3	609.8	609.8	611.3	611.3
12.5°	581.2	579.6	579.6	579.6	581.2	582.7	582.7	582.7	584.2	584.2	584.2
15°	547.9	547.9	547.9	549.5	549.5	551.0	552.5	552.5	554.0	554.0	555.5
17.5°	514.7	514.7	513.2	514.7	516.2	517.8	519.3	520.8	522.3	522.3	522.3
20°	478.5	477.0	478.5	480.0	481.5	483.0	484.5	487.6	489.1	489.1	489.1
22.5°	442.3	440.8	442.3	443.8	445.3	446.8	451.3	452.9	454.4	454.4	457.4
25°	406.1	406.1	407.6	409.1	410.6	412.1	415.1	418.1	419.6	421.2	421.2
27.5°	372.8	372.8	372.8	372.8	375.9	378.9	381.9	384.9	386.4	387.9	387.9
30°	341.1	339.6	339.6	341.1	344.2	347.2	350.2	353.2	354.7	356.2	357.8
32.5°	309.4	309.4	309.4	311.0	312.5	317.0	320.0	321.5	324.5	326.1	326.1
35°	280.8	280.8	280.8	283.8	286.8	289.8	291.3	294.4	297.4	297.4	297.4
37.5°	256.6	258.1	261.1	259.6	259.6	261.1	262.7	265.7	268.7	268.7	268.7
40°	229.4	231.0	232.5	231.0	232.5	235.5	237.0	238.5	240.0	241.5	241.5
42.5°	203.8	203.8	203.8	205.3	208.3	209.8	212.8	214.3	215.9	215.9	215.9
45°	182.6	182.6	184.2	185.7	187.2	188.7	190.2	191.7	193.2	193.2	193.2
47.5°	164.5	164.5	166.0	166.0	167.6	169.1	170.6	170.6	172.1	173.6	172.1
50°	147.9	147.9	147.9	149.4	149.4	151.0	151.0	152.5	152.5	152.5	152.5
52.5°	131.3	131.3	131.3	131.3	132.8	132.8	132.8	134.3	134.3	134.3	134.3
55°	116.2	116.2	116.2	116.2	116.2	117.7	117.7	117.7	117.7	117.7	117.7
57.5°	102.6	102.6	102.6	102.6	102.6	102.6	102.6	102.6	102.6	102.6	102.6
60°	89.1	89.1	89.1	89.1	89.1	87.6	89.1	89.1	89.1	89.1	89.1
62.5°	75.5	75.5	75.5	75.5	75.5	75.5	75.5	77.0	77.0	77.0	77.0
65°	61.9	63.4	63.4	63.4	63.4	63.4	63.4	64.9	64.9	64.9	64.9
67.5°	49.8	51.3	51.3	51.3	51.3	51.3	51.3	51.3	52.8	52.8	52.8
70°	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	40.8
72.5°	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	28.7	28.7	28.7
75°	19.6	19.6	19.6	19.6	18.1	18.1	18.1	18.1	18.1	18.1	18.1
77.5°	13.6	13.6	13.6	12.1	12.1	10.6	10.6	10.6	10.6	10.6	9.1
80°	7.5	7.5	7.5	7.5	7.5	6.0	6.0	4.5	4.5	4.5	4.5
82.5°	4.5	4.5	4.5	3.0	3.0	3.0	3.0	1.5	1.5	1.5	1.5
85°	1.5	1.5	1.5	1.5	1.5	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: SP1-2504-409-14

Test Date: 05/14/2025

Luminaire Tested: LD3A05R129040D010 E3D1H

Data in this report applies to families of products including LD3A

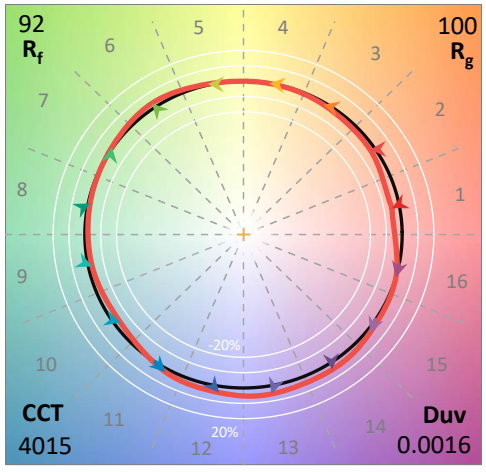
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2504-409-14
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	05/18/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	IRiS
Catalog Number:	**LD3A05R129040D010 E3D1H**
Description:	3in Adjustabled LED luminaire with, R12 optic, 4000K CCT AND, 90CRI LEDS, E3D1H TRIM

Spectral Parameters

CCT (K):	4015	CRI (Ra):	92.3		
CIE u':	0.2239	R1:	93.1	R9:	58.4
CIE v':	0.5033	R2:	93.8	R10:	85.3
Duv:	0.0016	R3:	94.2	R11:	94.4
CIE x:	0.3809	R4:	94.2	R12:	74.9
CIE y:	0.3805	R5:	92.7	R13:	93.3
CIE z:	0.2386	R6:	91.9	R14:	96.5
Peak Wavelength (nm):	450	R7:	94.0	R15:	89.0
Dominant Wavelength (nm):	578	R8:	84.8		
Purity:	28.51686				
Rf:	91.5				
Rg:	100.3				



Test Conditions

Stabilization Time:	26M
Operation Time:	1H 26M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2504-409-14

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085	10/22/2024	10/22/2025
Room Thermometer	IN0046	10/22/2024	10/22/2025

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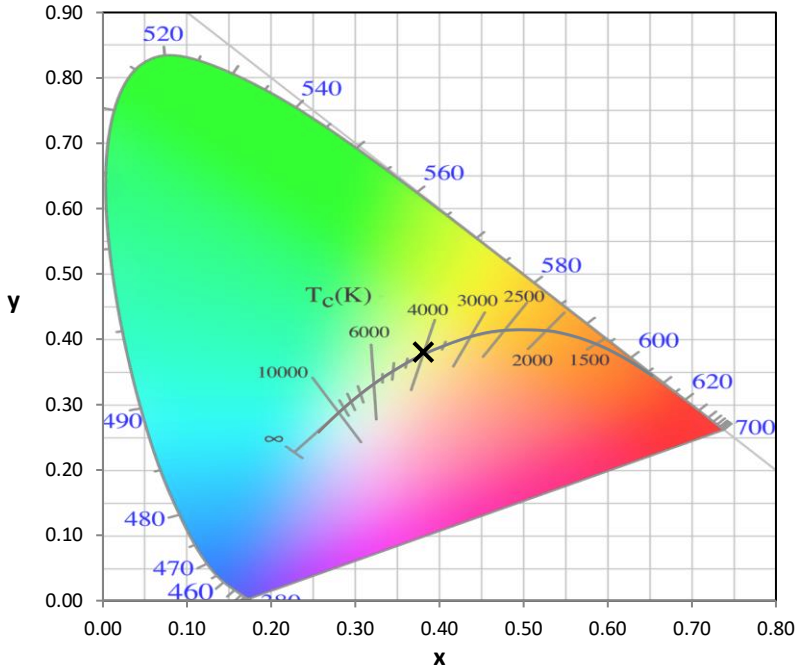
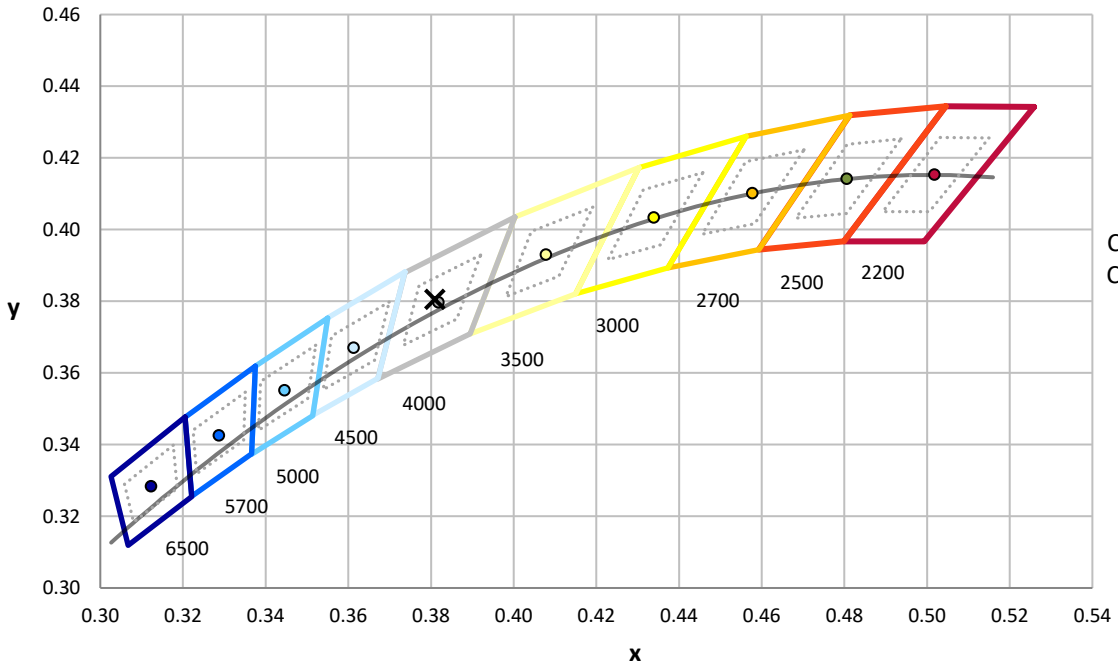
CIE 1931 Chromaticity Diagram



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



CCT = 4015K
CIE x = 0.3809
CIE y = 0.3805
Duv = 0.0016

Point lies inside the ANSI 4000K 4-step quadrangle

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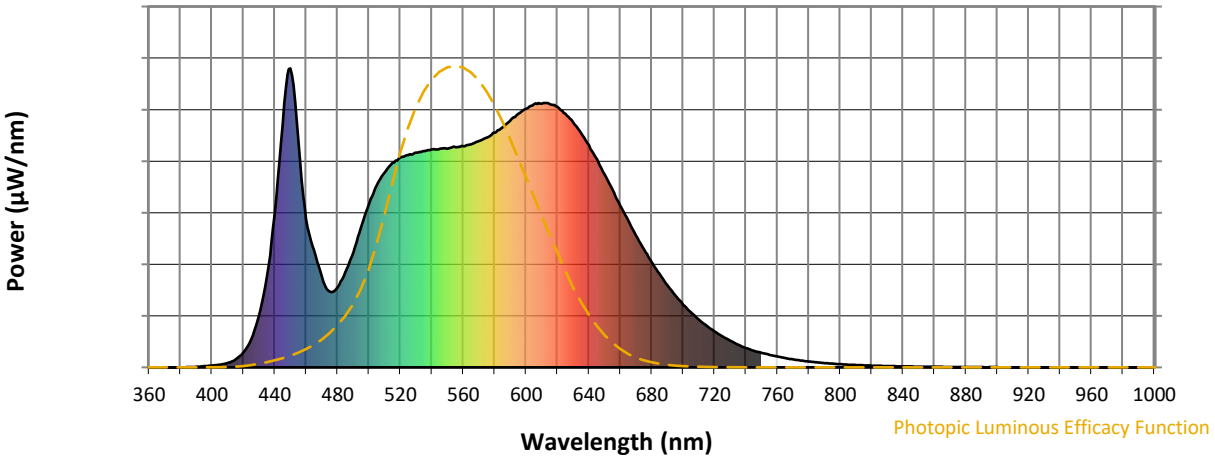
Photopic Flux vs. Wavelength

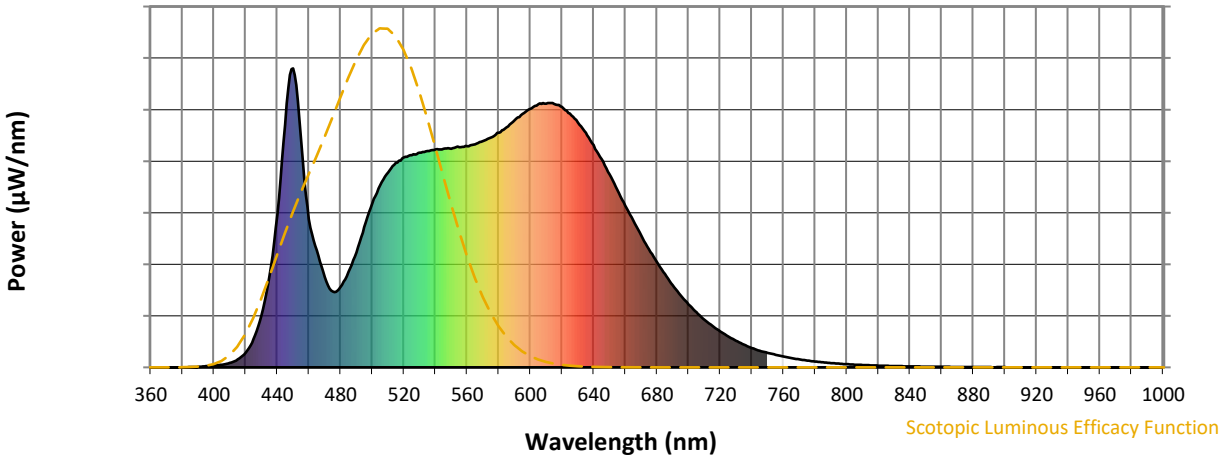


Photopic Lumens: NR

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	385	NR	620	871	NR	750	49	NR	880	1	NR
365	0	NR	495	468	NR	625	849	NR	755	42	NR	885	1	NR
370	0	NR	500	547	NR	630	819	NR	760	36	NR	890	1	NR
375	0	NR	505	609	NR	635	784	NR	765	31	NR	895	1	NR
380	0	NR	510	652	NR	640	744	NR	770	27	NR	900	1	NR
385	1	NR	515	684	NR	645	697	NR	775	23	NR	905	0	NR
390	2	NR	520	702	NR	650	645	NR	780	20	NR	910	0	NR
395	4	NR	525	710	NR	655	594	NR	785	17	NR	915	0	NR
400	6	NR	530	718	NR	660	541	NR	790	14	NR	920	0	NR
405	9	NR	535	723	NR	665	491	NR	795	12	NR	925	0	NR
410	15	NR	540	729	NR	670	441	NR	800	11	NR	930	0	NR
415	26	NR	545	731	NR	675	395	NR	805	9	NR	935	0	NR
420	49	NR	550	731	NR	680	352	NR	810	8	NR	940	0	NR
425	95	NR	555	736	NR	685	312	NR	815	7	NR	945	0	NR
430	173	NR	560	740	NR	690	275	NR	820	6	NR	950	0	NR
435	305	NR	565	746	NR	695	241	NR	825	5	NR	955	0	NR
440	511	NR	570	757	NR	700	210	NR	830	4	NR	960	0	NR
445	811	NR	575	768	NR	705	184	NR	835	4	NR	965	0	NR
450	1000	NR	580	785	NR	710	159	NR	840	3	NR	970	0	NR
455	760	NR	585	803	NR	715	139	NR	845	3	NR	975	0	NR
460	496	NR	590	826	NR	720	120	NR	850	3	NR	980	0	NR
465	392	NR	595	848	NR	725	104	NR	855	2	NR	985	0	NR
470	302	NR	600	865	NR	730	89	NR	860	2	NR	990	0	NR
475	253	NR	605	879	NR	735	76	NR	865	2	NR	995	0	NR
480	269	NR	610	882	NR	740	65	NR	870	1	NR	1000	0	NR
485	319	NR	615	881	NR	745	55	NR	875	1	NR			

REPORT NUMBER: SP1-2504-409-14

Scotopic Flux vs. Wavelength

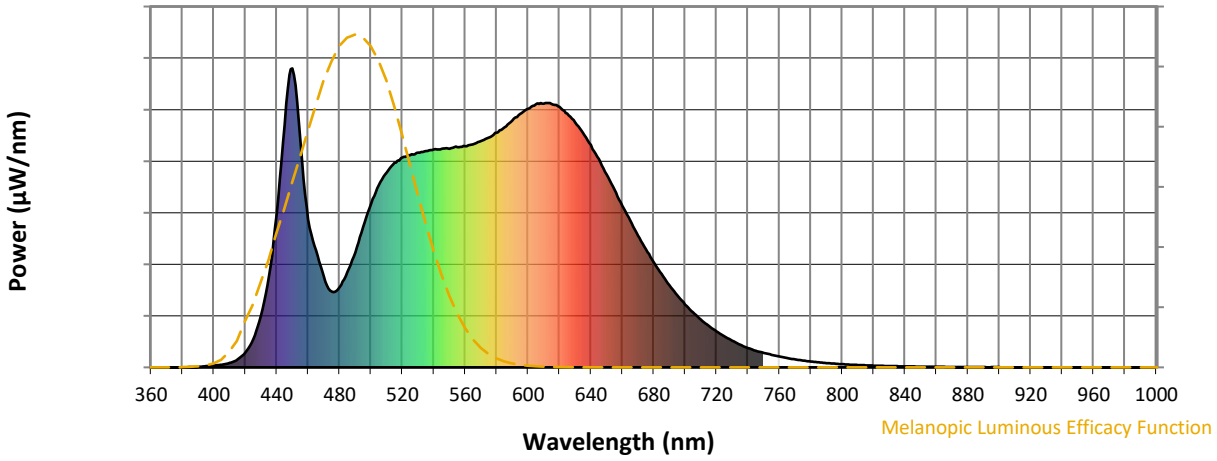


Scotopic Lumens: NR **S/P: 1.77**

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	385	NR	620	871	NR	750	49	NR	880	1	NR
365	0	NR	495	468	NR	625	849	NR	755	42	NR	885	1	NR
370	0	NR	500	547	NR	630	819	NR	760	36	NR	890	1	NR
375	0	NR	505	609	NR	635	784	NR	765	31	NR	895	1	NR
380	0	NR	510	652	NR	640	744	NR	770	27	NR	900	1	NR
385	1	NR	515	684	NR	645	697	NR	775	23	NR	905	0	NR
390	2	NR	520	702	NR	650	645	NR	780	20	NR	910	0	NR
395	4	NR	525	710	NR	655	594	NR	785	17	NR	915	0	NR
400	6	NR	530	718	NR	660	541	NR	790	14	NR	920	0	NR
405	9	NR	535	723	NR	665	491	NR	795	12	NR	925	0	NR
410	15	NR	540	729	NR	670	441	NR	800	11	NR	930	0	NR
415	26	NR	545	731	NR	675	395	NR	805	9	NR	935	0	NR
420	49	NR	550	731	NR	680	352	NR	810	8	NR	940	0	NR
425	95	NR	555	736	NR	685	312	NR	815	7	NR	945	0	NR
430	173	NR	560	740	NR	690	275	NR	820	6	NR	950	0	NR
435	305	NR	565	746	NR	695	241	NR	825	5	NR	955	0	NR
440	511	NR	570	757	NR	700	210	NR	830	4	NR	960	0	NR
445	811	NR	575	768	NR	705	184	NR	835	4	NR	965	0	NR
450	1000	NR	580	785	NR	710	159	NR	840	3	NR	970	0	NR
455	760	NR	585	803	NR	715	139	NR	845	3	NR	975	0	NR
460	496	NR	590	826	NR	720	120	NR	850	3	NR	980	0	NR
465	392	NR	595	848	NR	725	104	NR	855	2	NR	985	0	NR
470	302	NR	600	865	NR	730	89	NR	860	2	NR	990	0	NR
475	253	NR	605	879	NR	735	76	NR	865	2	NR	995	0	NR
480	269	NR	610	882	NR	740	65	NR	870	1	NR	1000	0	NR
485	319	NR	615	881	NR	745	55	NR	875	1	NR			

REPORT NUMBER: SP1-2504-409-14

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.62**

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	385	NR	620	871	NR	750	49	NR	880	1	NR
365	0	NR	495	468	NR	625	849	NR	755	42	NR	885	1	NR
370	0	NR	500	547	NR	630	819	NR	760	36	NR	890	1	NR
375	0	NR	505	609	NR	635	784	NR	765	31	NR	895	1	NR
380	0	NR	510	652	NR	640	744	NR	770	27	NR	900	1	NR
385	1	NR	515	684	NR	645	697	NR	775	23	NR	905	0	NR
390	2	NR	520	702	NR	650	645	NR	780	20	NR	910	0	NR
395	4	NR	525	710	NR	655	594	NR	785	17	NR	915	0	NR
400	6	NR	530	718	NR	660	541	NR	790	14	NR	920	0	NR
405	9	NR	535	723	NR	665	491	NR	795	12	NR	925	0	NR
410	15	NR	540	729	NR	670	441	NR	800	11	NR	930	0	NR
415	26	NR	545	731	NR	675	395	NR	805	9	NR	935	0	NR
420	49	NR	550	731	NR	680	352	NR	810	8	NR	940	0	NR
425	95	NR	555	736	NR	685	312	NR	815	7	NR	945	0	NR
430	173	NR	560	740	NR	690	275	NR	820	6	NR	950	0	NR
435	305	NR	565	746	NR	695	241	NR	825	5	NR	955	0	NR
440	511	NR	570	757	NR	700	210	NR	830	4	NR	960	0	NR
445	811	NR	575	768	NR	705	184	NR	835	4	NR	965	0	NR
450	1000	NR	580	785	NR	710	159	NR	840	3	NR	970	0	NR
455	760	NR	585	803	NR	715	139	NR	845	3	NR	975	0	NR
460	496	NR	590	826	NR	720	120	NR	850	3	NR	980	0	NR
465	392	NR	595	848	NR	725	104	NR	855	2	NR	985	0	NR
470	302	NR	600	865	NR	730	89	NR	860	2	NR	990	0	NR
475	253	NR	605	879	NR	735	76	NR	865	2	NR	995	0	NR
480	269	NR	610	882	NR	740	65	NR	870	1	NR	1000	0	NR
485	319	NR	615	881	NR	745	55	NR	875	1	NR			

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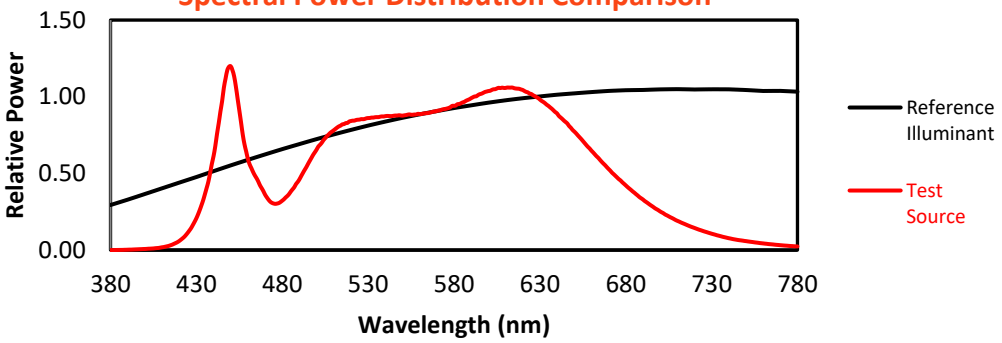
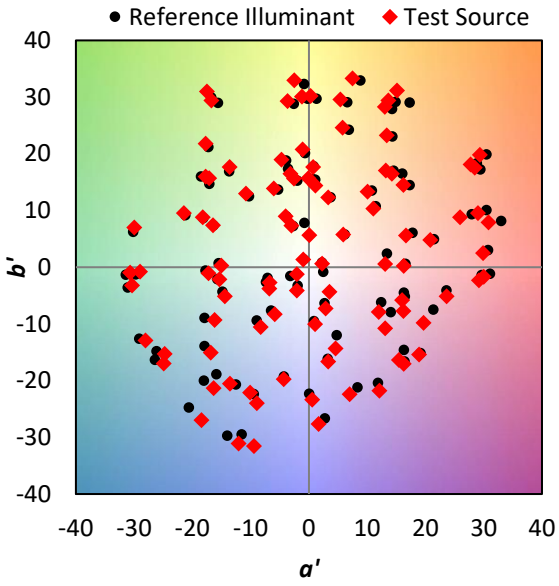
Summary

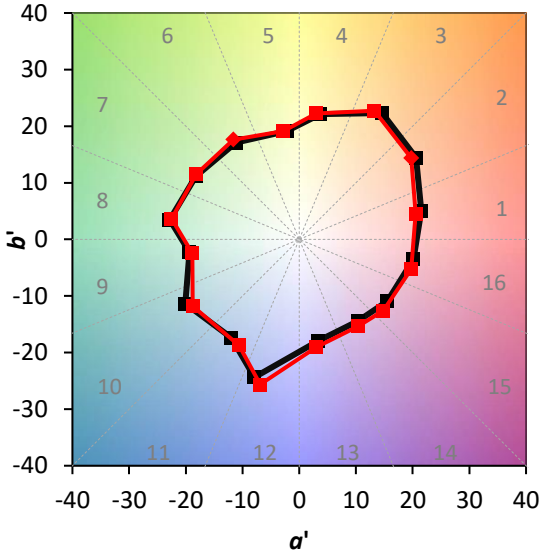
R_f = 91.5
R_g = 100.3
CIE R_a = 92.3
R_9 = 58.4

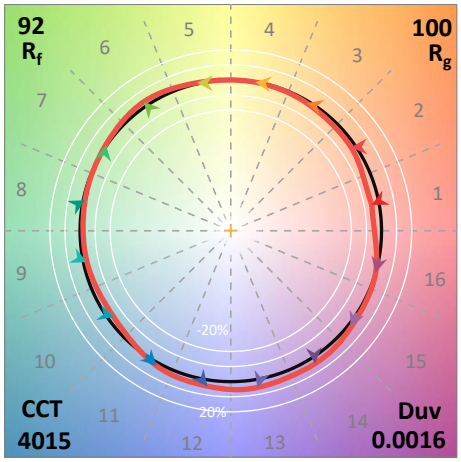
Spectral Power Distribution Comparison

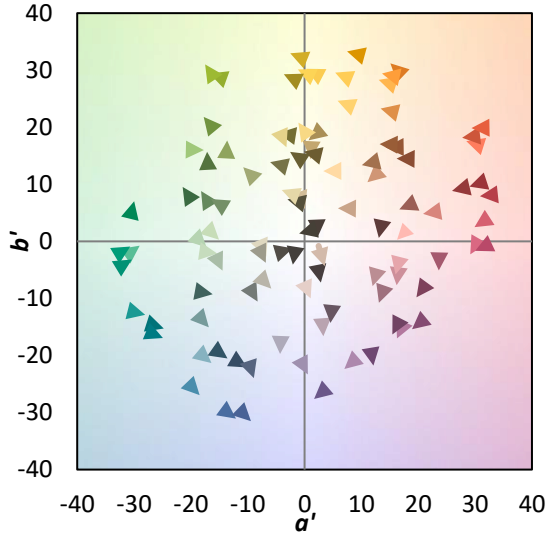


Color Vector Graphics









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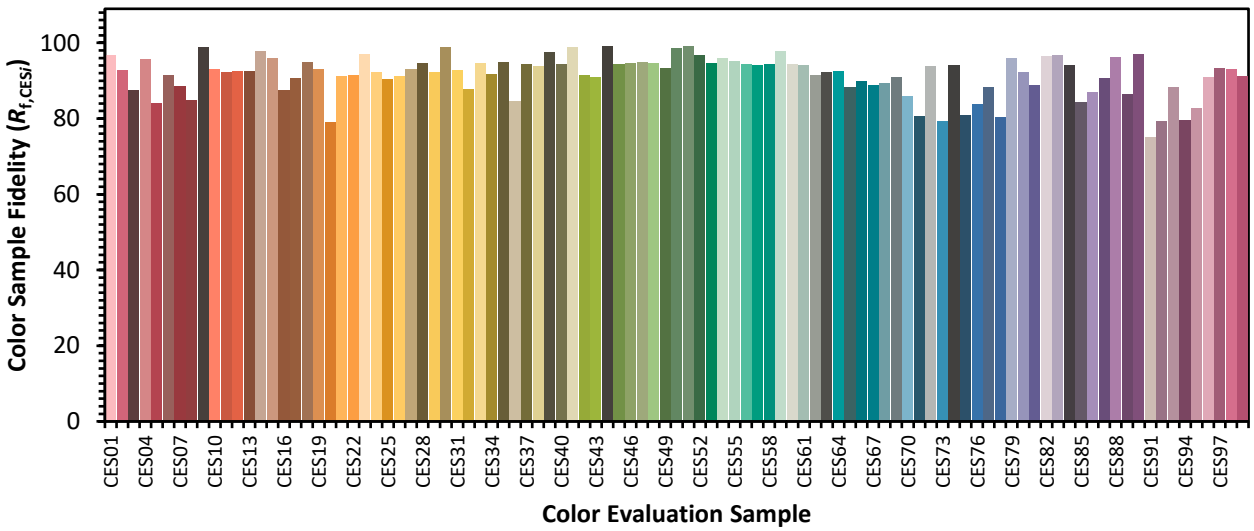
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 91	CES51 = 99	CES76 = 84
CES02 = 61	CES27 = 93	CES52 = 97	CES77 = 88
CES03 = 31	CES28 = 95	CES53 = 95	CES78 = 80
CES04 = 69	CES29 = 92	CES54 = 96	CES79 = 96
CES05 = 49	CES30 = 99	CES55 = 95	CES80 = 92
CES06 = 50	CES31 = 93	CES56 = 94	CES81 = 89
CES07 = 42	CES32 = 88	CES57 = 94	CES82 = 96
CES08 = 41	CES33 = 95	CES58 = 94	CES83 = 97
CES09 = 29	CES34 = 92	CES59 = 98	CES84 = 94
CES10 = 74	CES35 = 95	CES60 = 94	CES85 = 84
CES11 = 57	CES36 = 85	CES61 = 94	CES86 = 87
CES12 = 63	CES37 = 94	CES62 = 92	CES87 = 91
CES13 = 43	CES38 = 94	CES63 = 92	CES88 = 96
CES14 = 74	CES39 = 98	CES64 = 93	CES89 = 87
CES15 = 71	CES40 = 94	CES65 = 88	CES90 = 97
CES16 = 47	CES41 = 99	CES66 = 90	CES91 = 75
CES17 = 49	CES42 = 91	CES67 = 89	CES92 = 79
CES18 = 56	CES43 = 91	CES68 = 89	CES93 = 88
CES19 = 71	CES44 = 99	CES69 = 91	CES94 = 80
CES20 = 66	CES45 = 94	CES70 = 86	CES95 = 83
CES21 = 85	CES46 = 95	CES71 = 81	CES96 = 91
CES22 = 78	CES47 = 95	CES72 = 94	CES97 = 93
CES23 = 91	CES48 = 95	CES73 = 79	CES98 = 93
CES24 = 90	CES49 = 93	CES74 = 94	CES99 = 91
CES25 = 71	CES50 = 99	CES75 = 81	



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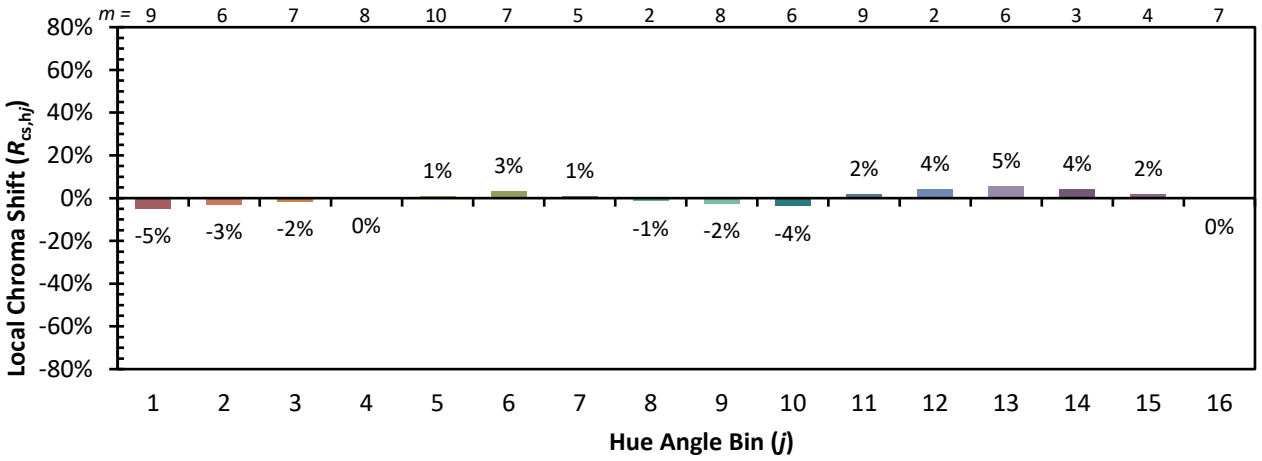
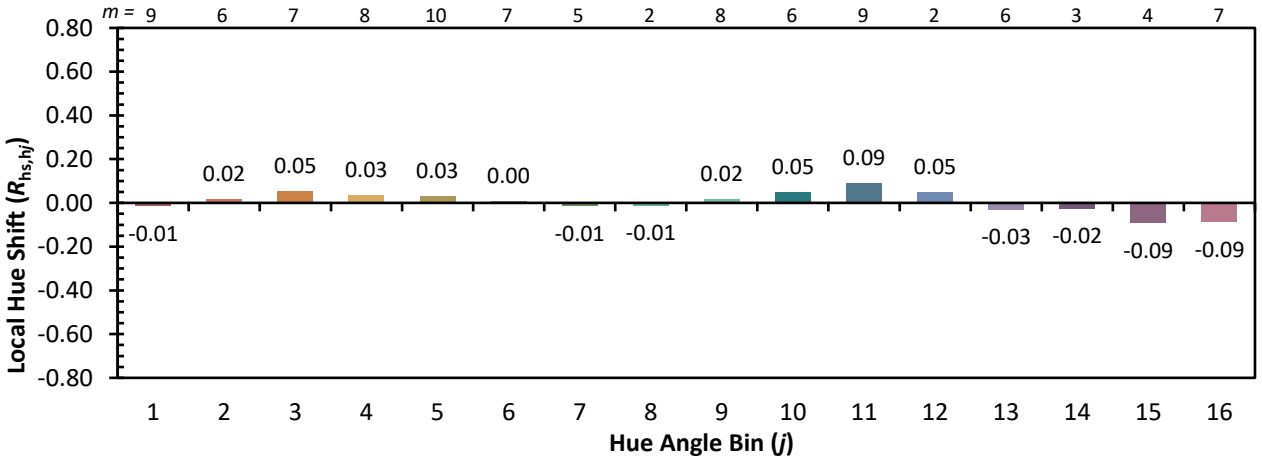
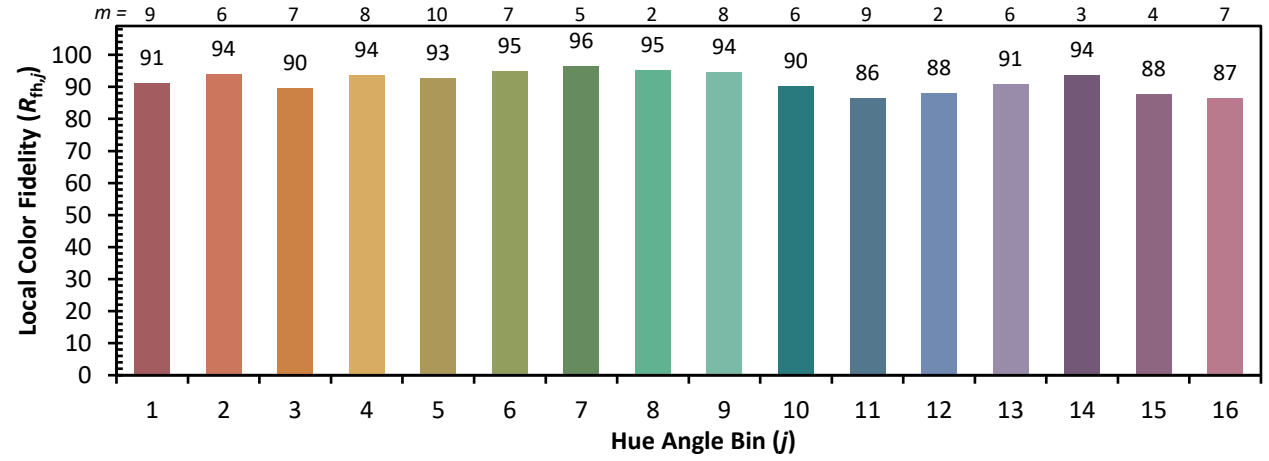
Color Rendition by Hue-Angle Bin







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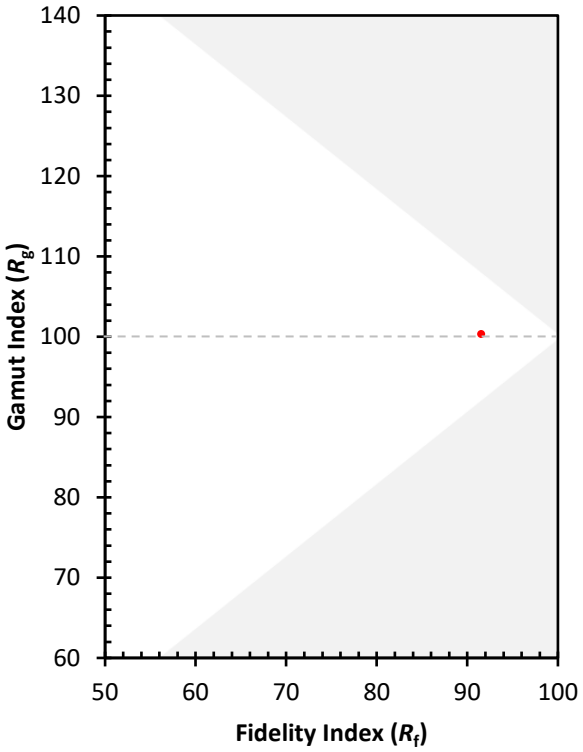
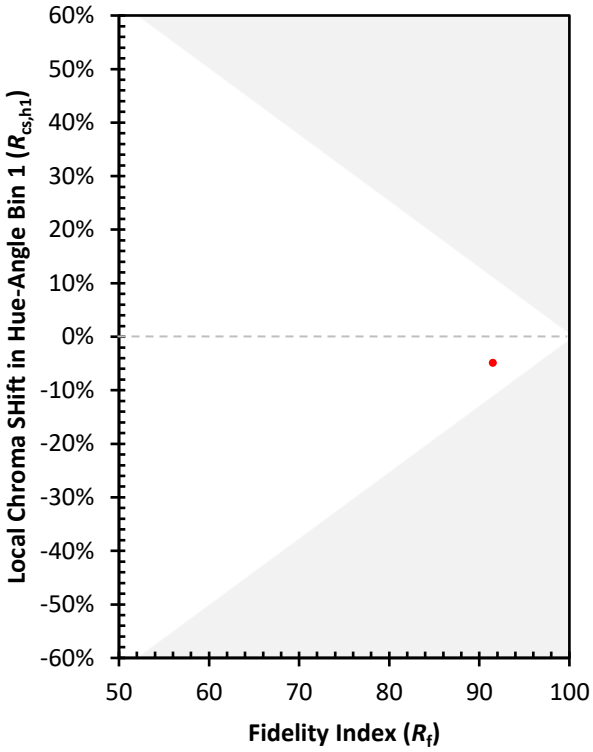
Measure Comparisons





(END OF REPORT)