

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: P1253719

Luminaire Tested: P3A02R709035DE010 E3LDWW1H

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1253719
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: P3A02R709035DE010 E3LDWW1H
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 90CRI , E3LDWW1H TRIM
Light Source: -
Ballast/Driver: -

Summary

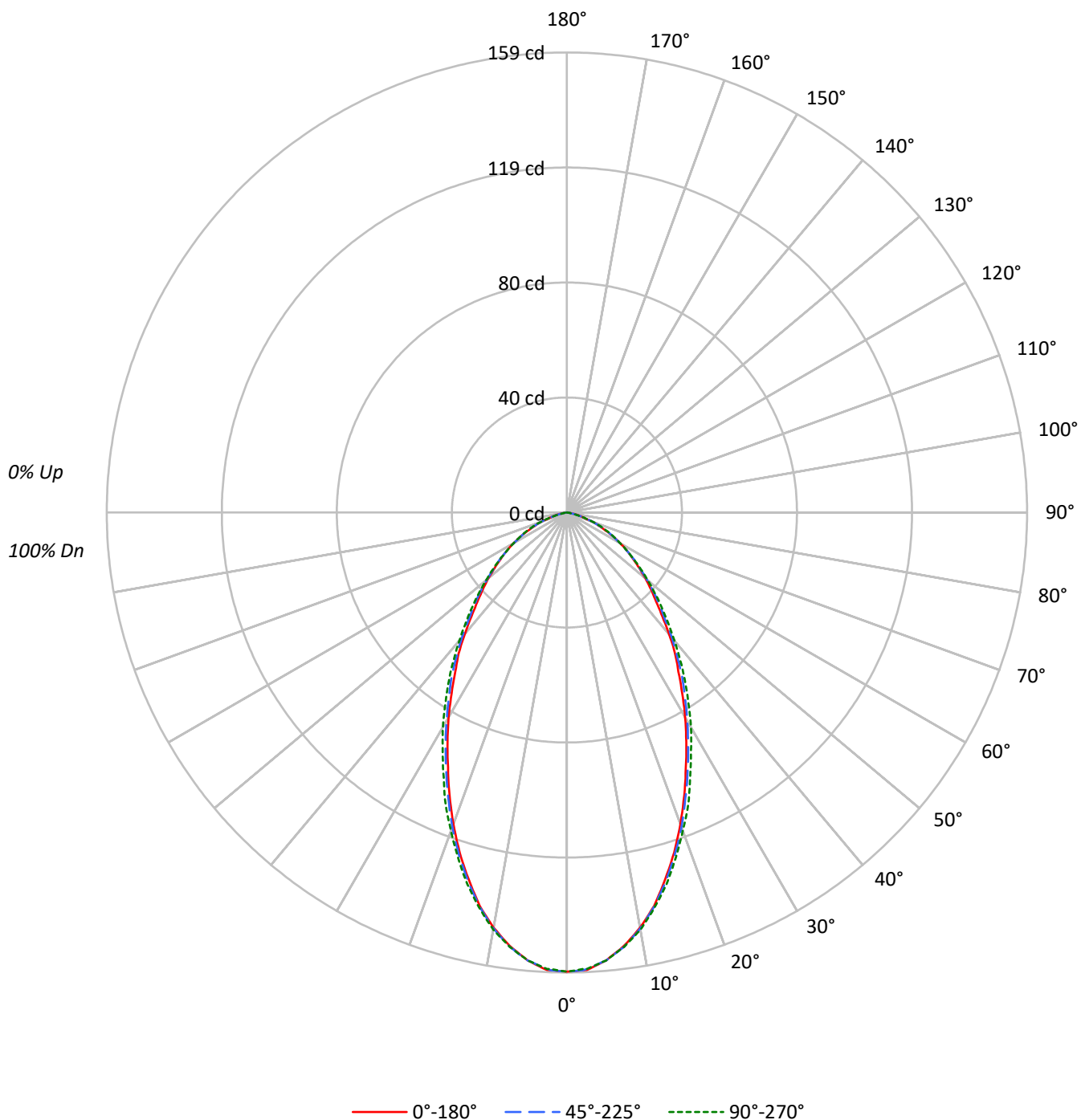
Lumens per Lamp: N/A
Luminaire Lumens: 221.0 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Spacing Criteria (0/90/45): 0.87 / 0.89 / 0.97
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1253719

CATALOG NUMBER: P3A02R709035DE010 E3LDWW1H

Luminous Intensity Polar Plot



TEST NUMBER: P1253719

CATALOG NUMBER: P3A02R709035DE010 E3LDWW1H

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	108	104	101	109	105	102	100	101	99	97		97	95	94		94
2	103	97	91	87	101	95	90	86	92	87	84		88	85	82		85
3	96	87	81	75	94	86	80	75	83	78	73		80	76	72		78
4	89	79	72	66	87	78	71	66	76	70	65		73	68	64		71
5	83	72	64	59	81	71	64	59	69	63	58		67	62	57		66
6	78	66	58	53	76	65	58	53	64	57	52		62	56	52		61
7	73	61	53	48	71	60	53	48	59	52	47		57	52	47		56
8	68	56	49	44	67	56	49	44	54	48	43		53	47	43		52
9	64	52	45	40	63	52	45	40	51	44	40		50	44	40		49
10	61	49	42	37	60	48	42	37	47	41	37		47	41	37		46

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	34800	34800	34800
5°	34206	34206	34206
10°	32442	32509	32598
15°	29785	29943	30193
20°	26742	26999	27326
25°	23517	23880	24389
30°	20687	21041	21700
35°	17989	18578	19060
40°	15715	16145	16545
45°	13552	14017	14358
50°	12076	12315	12452
55°	10628	10781	10781
60°	9341	9210	9341
65°	7679	7887	8042
70°	6027	6027	6283
75°	3982	3643	3643
80°	2273	1768	1389
85°	1006	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 75°

Vertical Angle: 45°

Luminance: 14358 cd/sqm

TEST NUMBER: P1253719

CATALOG NUMBER: P3A02R709035DE010 E3LDWW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.5	6.6
10°-20°	36.8	16.7
20°-30°	45.4	20.6
30°-40°	43.3	19.6
40°-50°	35.0	15.9
50°-60°	25.2	11.4
60°-70°	15.1	6.8
70°-80°	5.1	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°	96.8	43.8
0°-40°	140.1	63.4
0°-60°	200.4	90.7
0°-90°	221.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	221.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	159	159	159	159	159	
5°	155	155	155	156	155	15
15°	131	132	132	132	133	37
25°	97	98	99	100	101	45
35°	67	68	69	71	71	42
45°	44	44	45	46	46	34
55°	28	28	28	28	28	25
65°	15	15	15	16	16	15
75°	5	5	4	4	4	5
85°	0	0	0	0	0	1
90°	0	0	0	0	0	

TEST NUMBER: P1253719

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	158.7	158.7	158.7	158.7	158.7	158.7	158.7	158.7	158.7	158.7	158.7
2°	158.3	158.3	158.3	158.3	158.3	158.3	158.3	158.3	158.3	158.3	157.9
2.5°	158.3	157.9	157.9	157.9	157.9	157.9	157.9	157.9	157.9	158.3	157.9
5°	155.4	155.4	155.4	155.4	155.4	155.4	155.4	155.4	155.8	155.4	155.4
7.5°	151.1	151.1	151.1	151.1	151.4	151.4	151.4	151.4	151.8	151.8	151.4
10°	145.7	145.7	145.7	145.7	146.0	146.0	146.4	146.0	146.0	146.4	146.4
12.5°	139.2	138.8	138.8	138.8	139.2	139.5	139.5	139.5	139.9	139.9	139.9
15°	131.2	131.2	131.2	131.6	131.6	131.9	132.3	132.3	132.6	132.6	133.0
17.5°	123.2	123.2	122.9	123.2	123.6	124.0	124.3	124.7	125.1	125.1	125.1
20°	114.6	114.2	114.6	114.9	115.3	115.7	116.0	116.7	117.1	117.1	117.1
22.5°	105.9	105.5	105.9	106.3	106.6	107.0	108.1	108.4	108.8	108.8	109.5
25°	97.2	97.2	97.6	97.9	98.3	98.7	99.4	100.1	100.5	100.8	100.8
27.5°	89.3	89.3	89.3	89.3	90.0	90.7	91.4	92.2	92.5	92.9	92.9
30°	81.7	81.3	81.3	81.7	82.4	83.1	83.9	84.6	84.9	85.3	85.7
32.5°	74.1	74.1	74.1	74.5	74.8	75.9	76.6	77.0	77.7	78.1	78.1
35°	67.2	67.2	67.2	67.9	68.7	69.4	69.8	70.5	71.2	71.2	71.2
37.5°	61.4	61.8	62.5	62.2	62.2	62.5	62.9	63.6	64.3	64.3	64.3
40°	54.9	55.3	55.7	55.3	55.7	56.4	56.7	57.1	57.5	57.8	57.8
42.5°	48.8	48.8	48.8	49.2	49.9	50.2	51.0	51.3	51.7	51.7	51.7
45°	43.7	43.7	44.1	44.5	44.8	45.2	45.5	45.9	46.3	46.3	46.3
47.5°	39.4	39.4	39.8	39.8	40.1	40.5	40.8	40.8	41.2	41.6	41.2
50°	35.4	35.4	35.4	35.8	35.8	36.1	36.1	36.5	36.5	36.5	36.5
52.5°	31.4	31.4	31.4	31.4	31.8	31.8	31.8	32.2	32.2	32.2	32.2
55°	27.8	27.8	27.8	27.8	27.8	28.2	28.2	28.2	28.2	28.2	28.2
57.5°	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6
60°	21.3	21.3	21.3	21.3	21.3	21.0	21.3	21.3	21.3	21.3	21.3
62.5°	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.4	18.4	18.4	18.4
65°	14.8	15.2	15.2	15.2	15.2	15.2	15.2	15.5	15.5	15.5	15.5
67.5°	11.9	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.7	12.7	12.7
70°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.8
72.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.9	6.9	6.9
75°	4.7	4.7	4.7	4.7	4.3	4.3	4.3	4.3	4.3	4.3	4.3
77.5°	3.3	3.3	3.3	2.9	2.9	2.5	2.5	2.5	2.5	2.5	2.2
80°	1.8	1.8	1.8	1.8	1.8	1.4	1.4	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	0.7	0.7	0.7	0.7	0.4	0.4	0.4	0.4
85°	0.4	0.4	0.4	0.4	0.4	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

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

Report Prepared for

Cooper Lighting Solutions

IRiS

Report Number: SP1-2504-409-24

Test Date: 05/15/2025

Luminaire Tested: LD3A17R159035D010 E3D1WH

Data in this report applies to families of products including LD3A

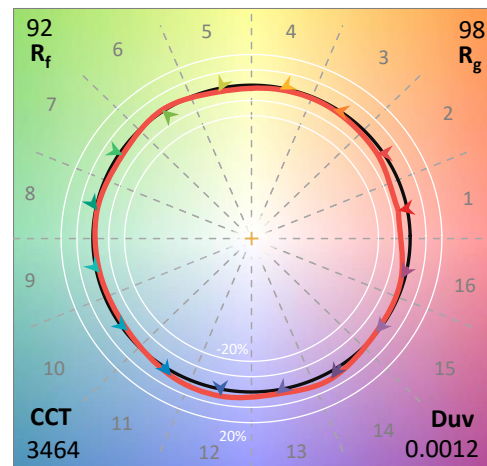
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2504-409-24
 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: **LD3A17R159035D010 E3D1WH**
 Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 90CRI LEDS, E3D1WH TRIM

Spectral Parameters

CCT (K): 3464
 CIE u' : 0.2361
 CIE v' : 0.5136
 Duv: 0.0012
 CIE x: 0.4086
 CIE y: 0.3951
 CIE z: 0.1963
 Peak Wavelength (nm): 614
 Dominant Wavelength (nm): 580
 Purity: 41.2143
 R_f: 91.8
 R_g: 98.4

CRI (Ra): 92.8
 R1: 93.1
 R2: 95.9
 R3: 98.0
 R4: 94.1
 R5: 92.9
 R6: 95.0
 R7: 92.5
 R8: 81.1
 R9: 53.9
 R10: 89.9
 R11: 95.7
 R12: 78.6
 R13: 94.0
 R14: 98.5
 R15: 88.0



Test Conditions

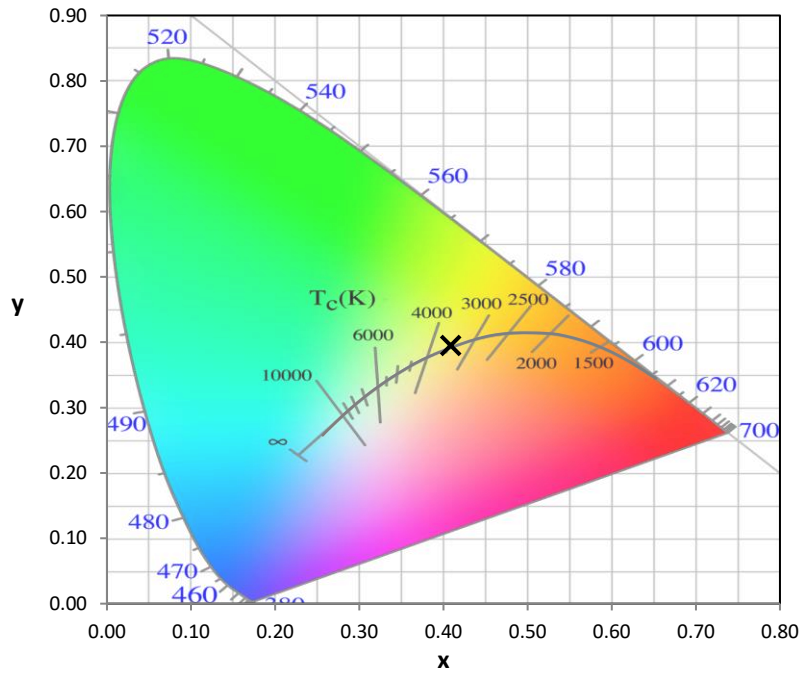
Stabilization Time: 62M
 Operation Time: 2H 2M
 Sphere Temperature (°C): 25.0

REPORT NUMBER: SP1-2504-409-24

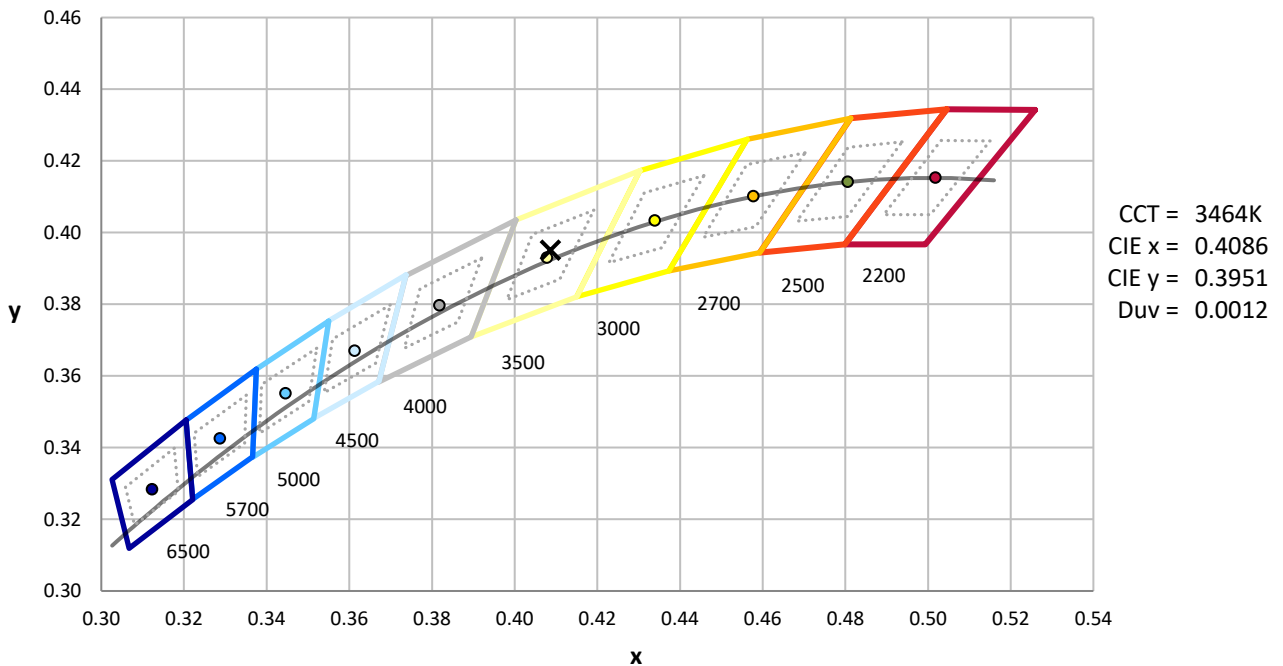
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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



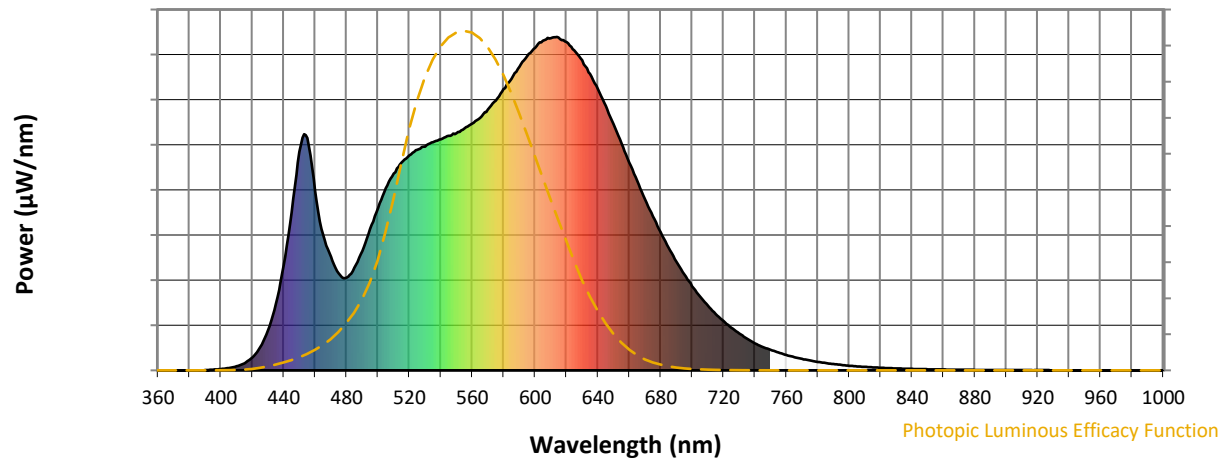
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

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Photopic Flux vs. Wavelength

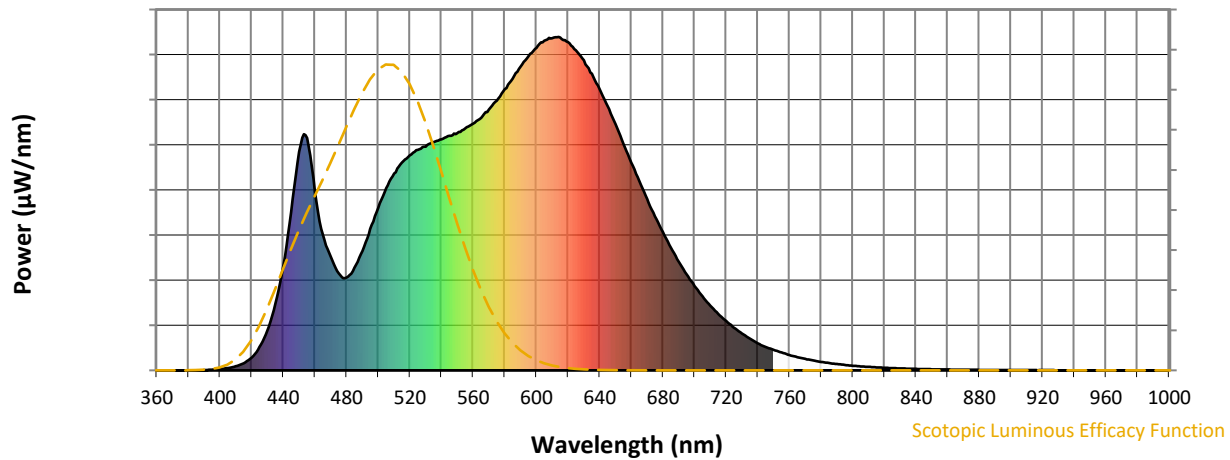


Photopic Lumens: NR

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	358	NR	620	985	NR	750	62	NR	880	1	NR
365	0	NR	495	424	NR	625	960	NR	755	53	NR	885	1	NR
370	0	NR	500	486	NR	630	930	NR	760	46	NR	890	1	NR
375	0	NR	505	547	NR	635	889	NR	765	40	NR	895	1	NR
380	0	NR	510	590	NR	640	844	NR	770	34	NR	900	1	NR
385	0	NR	515	623	NR	645	792	NR	775	30	NR	905	1	NR
390	1	NR	520	645	NR	650	738	NR	780	25	NR	910	1	NR
395	2	NR	525	662	NR	655	681	NR	785	22	NR	915	1	NR
400	4	NR	530	671	NR	660	623	NR	790	19	NR	920	1	NR
405	7	NR	535	685	NR	665	568	NR	795	16	NR	925	1	NR
410	12	NR	540	693	NR	670	513	NR	800	14	NR	930	0	NR
415	22	NR	545	704	NR	675	461	NR	805	12	NR	935	0	NR
420	39	NR	550	712	NR	680	414	NR	810	10	NR	940	0	NR
425	70	NR	555	726	NR	685	368	NR	815	9	NR	945	0	NR
430	120	NR	560	740	NR	690	326	NR	820	8	NR	950	0	NR
435	200	NR	565	757	NR	695	288	NR	825	7	NR	955	0	NR
440	315	NR	570	782	NR	700	253	NR	830	6	NR	960	0	NR
445	475	NR	575	809	NR	705	222	NR	835	5	NR	965	0	NR
450	656	NR	580	844	NR	710	194	NR	840	4	NR	970	0	NR
455	697	NR	585	874	NR	715	169	NR	845	4	NR	975	0	NR
460	539	NR	590	911	NR	720	148	NR	850	3	NR	980	0	NR
465	408	NR	595	943	NR	725	128	NR	855	3	NR	985	0	NR
470	341	NR	600	968	NR	730	111	NR	860	2	NR	990	0	NR
475	291	NR	605	988	NR	735	95	NR	865	2	NR	995	0	NR
480	278	NR	610	996	NR	740	81	NR	870	2	NR	1000	0	NR
485	308	NR	615	998	NR	745	70	NR	875	2	NR			

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Scotopic Flux vs. Wavelength



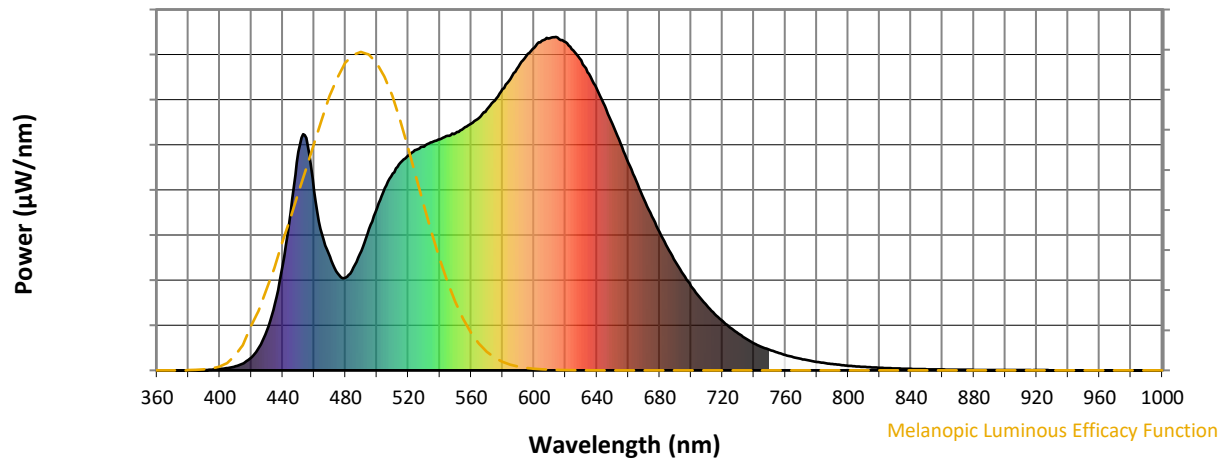
Scotopic Lumens: NR

S/P: 1.6

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	358	NR	620	985	NR	750	62	NR	880	1	NR
365	0	NR	495	424	NR	625	960	NR	755	53	NR	885	1	NR
370	0	NR	500	486	NR	630	930	NR	760	46	NR	890	1	NR
375	0	NR	505	547	NR	635	889	NR	765	40	NR	895	1	NR
380	0	NR	510	590	NR	640	844	NR	770	34	NR	900	1	NR
385	0	NR	515	623	NR	645	792	NR	775	30	NR	905	1	NR
390	1	NR	520	645	NR	650	738	NR	780	25	NR	910	1	NR
395	2	NR	525	662	NR	655	681	NR	785	22	NR	915	1	NR
400	4	NR	530	671	NR	660	623	NR	790	19	NR	920	1	NR
405	7	NR	535	685	NR	665	568	NR	795	16	NR	925	1	NR
410	12	NR	540	693	NR	670	513	NR	800	14	NR	930	0	NR
415	22	NR	545	704	NR	675	461	NR	805	12	NR	935	0	NR
420	39	NR	550	712	NR	680	414	NR	810	10	NR	940	0	NR
425	70	NR	555	726	NR	685	368	NR	815	9	NR	945	0	NR
430	120	NR	560	740	NR	690	326	NR	820	8	NR	950	0	NR
435	200	NR	565	757	NR	695	288	NR	825	7	NR	955	0	NR
440	315	NR	570	782	NR	700	253	NR	830	6	NR	960	0	NR
445	475	NR	575	809	NR	705	222	NR	835	5	NR	965	0	NR
450	656	NR	580	844	NR	710	194	NR	840	4	NR	970	0	NR
455	697	NR	585	874	NR	715	169	NR	845	4	NR	975	0	NR
460	539	NR	590	911	NR	720	148	NR	850	3	NR	980	0	NR
465	408	NR	595	943	NR	725	128	NR	855	3	NR	985	0	NR
470	341	NR	600	968	NR	730	111	NR	860	2	NR	990	0	NR
475	291	NR	605	988	NR	735	95	NR	865	2	NR	995	0	NR
480	278	NR	610	996	NR	740	81	NR	870	2	NR	1000	0	NR
485	308	NR	615	998	NR	745	70	NR	875	2	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.22

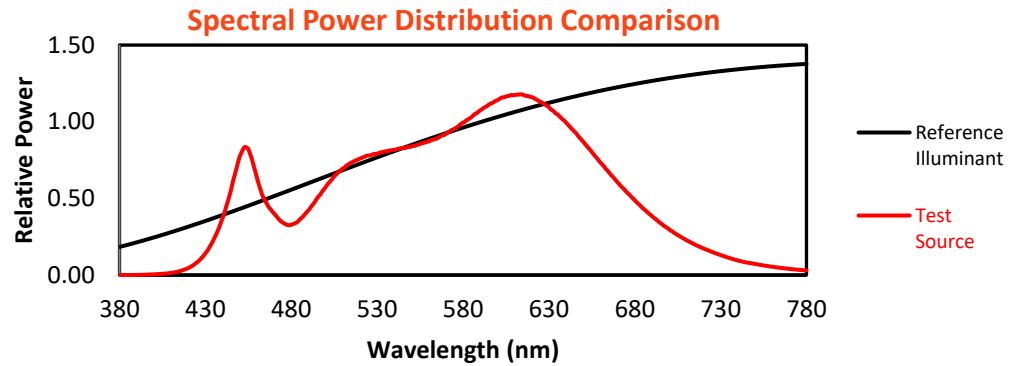
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	358	NR	620	985	NR	750	62	NR	880	1	NR
365	0	NR	495	424	NR	625	960	NR	755	53	NR	885	1	NR
370	0	NR	500	486	NR	630	930	NR	760	46	NR	890	1	NR
375	0	NR	505	547	NR	635	889	NR	765	40	NR	895	1	NR
380	0	NR	510	590	NR	640	844	NR	770	34	NR	900	1	NR
385	0	NR	515	623	NR	645	792	NR	775	30	NR	905	1	NR
390	1	NR	520	645	NR	650	738	NR	780	25	NR	910	1	NR
395	2	NR	525	662	NR	655	681	NR	785	22	NR	915	1	NR
400	4	NR	530	671	NR	660	623	NR	790	19	NR	920	1	NR
405	7	NR	535	685	NR	665	568	NR	795	16	NR	925	1	NR
410	12	NR	540	693	NR	670	513	NR	800	14	NR	930	0	NR
415	22	NR	545	704	NR	675	461	NR	805	12	NR	935	0	NR
420	39	NR	550	712	NR	680	414	NR	810	10	NR	940	0	NR
425	70	NR	555	726	NR	685	368	NR	815	9	NR	945	0	NR
430	120	NR	560	740	NR	690	326	NR	820	8	NR	950	0	NR
435	200	NR	565	757	NR	695	288	NR	825	7	NR	955	0	NR
440	315	NR	570	782	NR	700	253	NR	830	6	NR	960	0	NR
445	475	NR	575	809	NR	705	222	NR	835	5	NR	965	0	NR
450	656	NR	580	844	NR	710	194	NR	840	4	NR	970	0	NR
455	697	NR	585	874	NR	715	169	NR	845	4	NR	975	0	NR
460	539	NR	590	911	NR	720	148	NR	850	3	NR	980	0	NR
465	408	NR	595	943	NR	725	128	NR	855	3	NR	985	0	NR
470	341	NR	600	968	NR	730	111	NR	860	2	NR	990	0	NR
475	291	NR	605	988	NR	735	95	NR	865	2	NR	995	0	NR
480	278	NR	610	996	NR	740	81	NR	870	2	NR	1000	0	NR
485	308	NR	615	998	NR	745	70	NR	875	2	NR			

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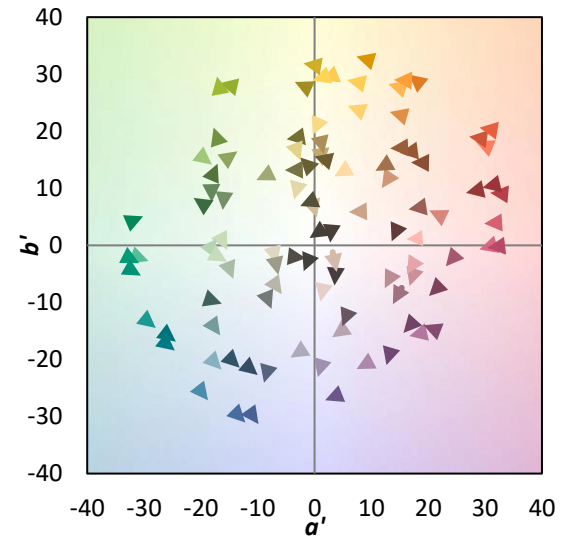
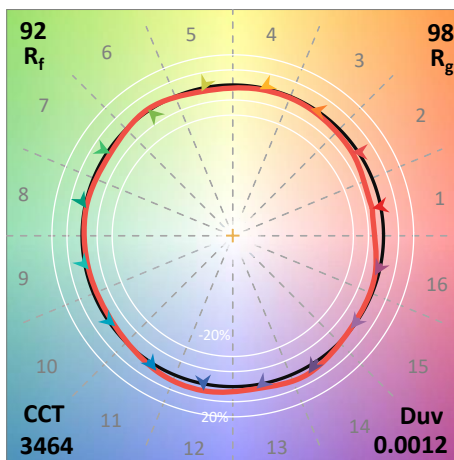
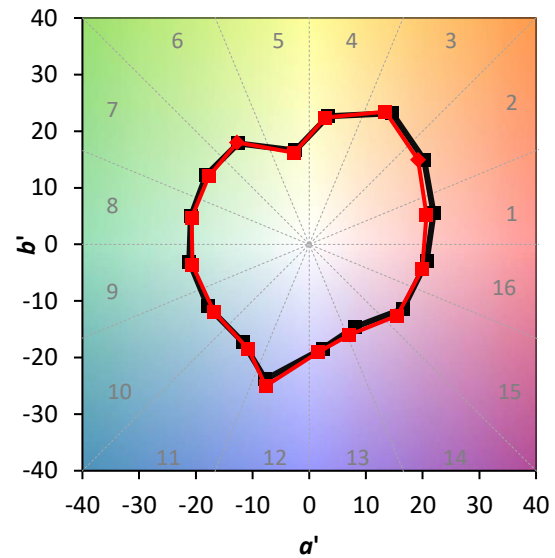
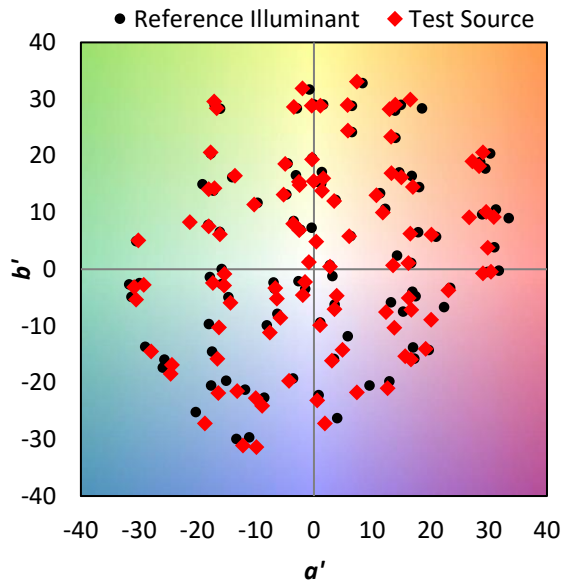
TM-30-18

Summary

$R_f = 91.8$
 $R_g = 98.4$
 $\text{CIE } R_a = 92.8$
 $R_9 = 53.9$

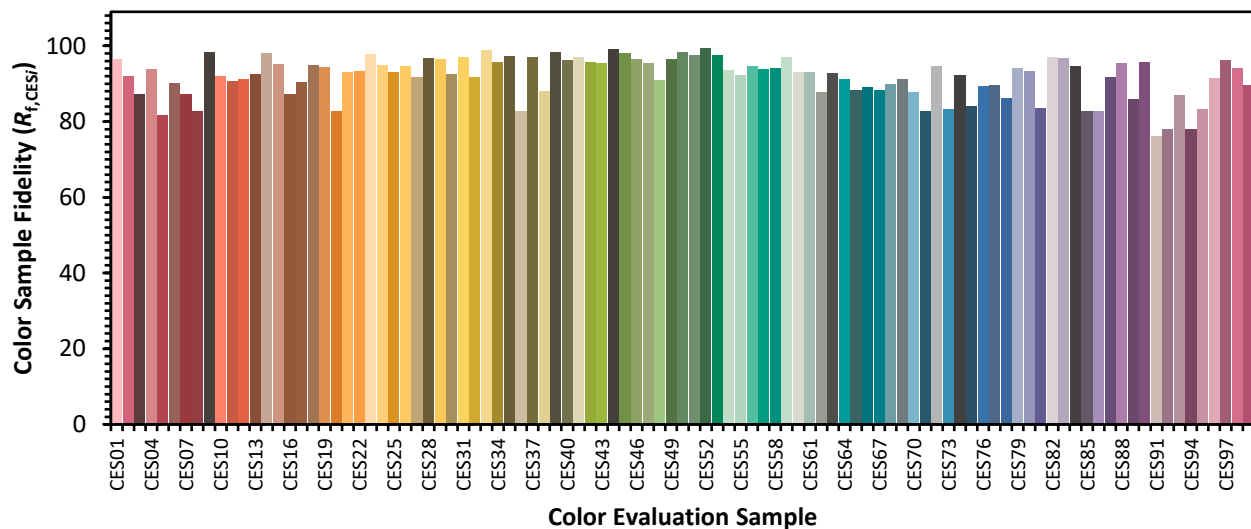


Color Vector Graphics

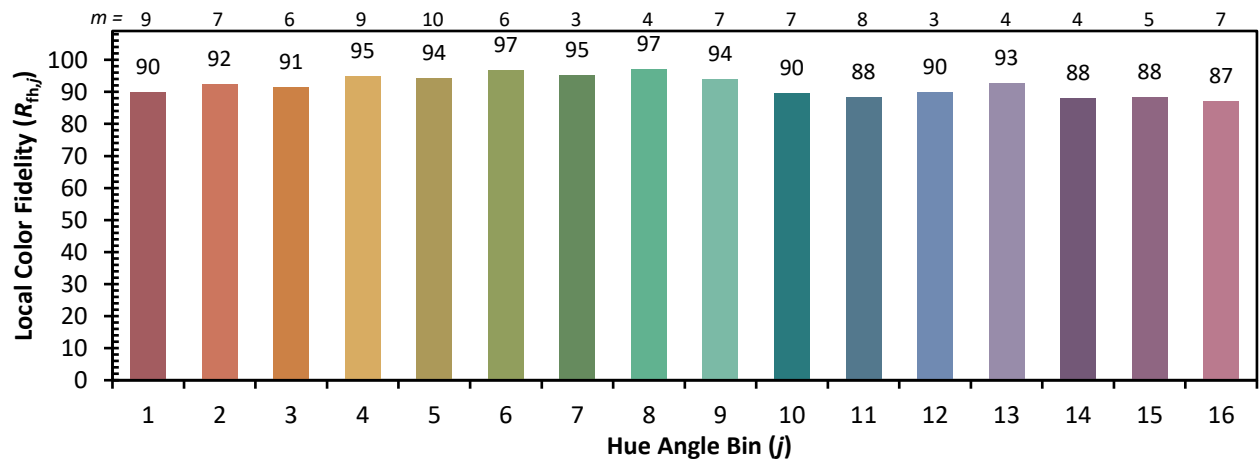
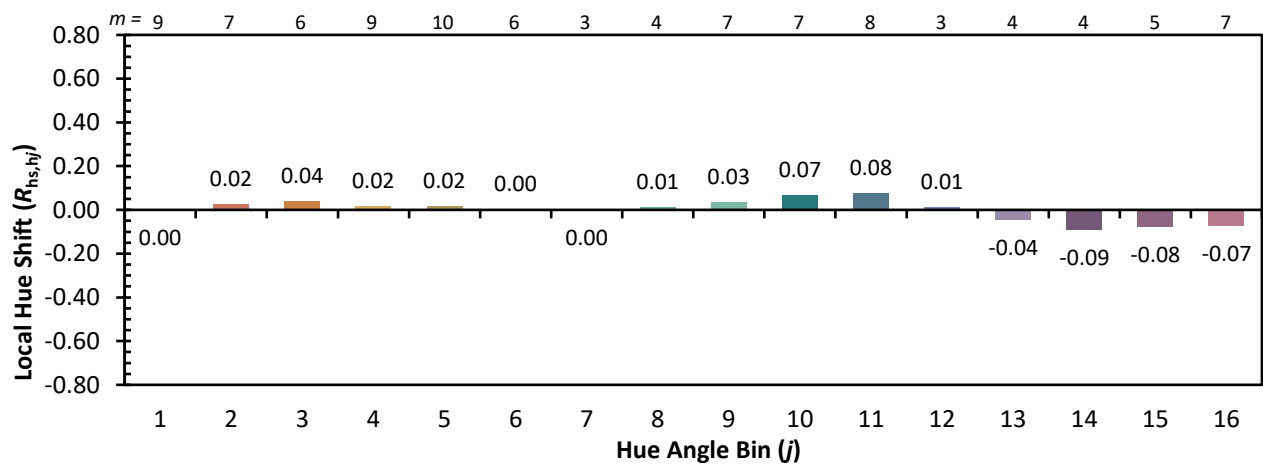
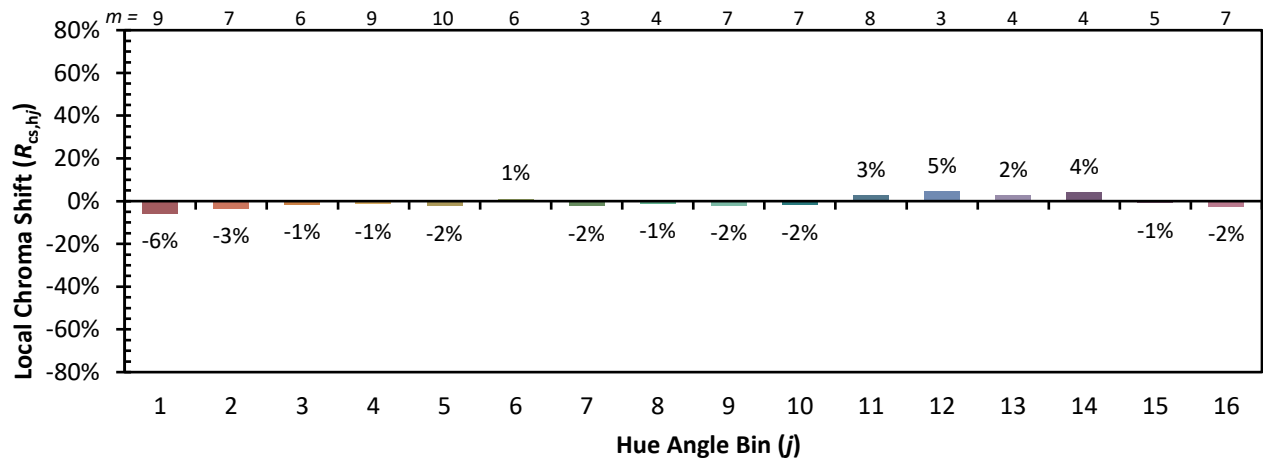


Individual Sample Fidelity Index ($R_{f,i}$)

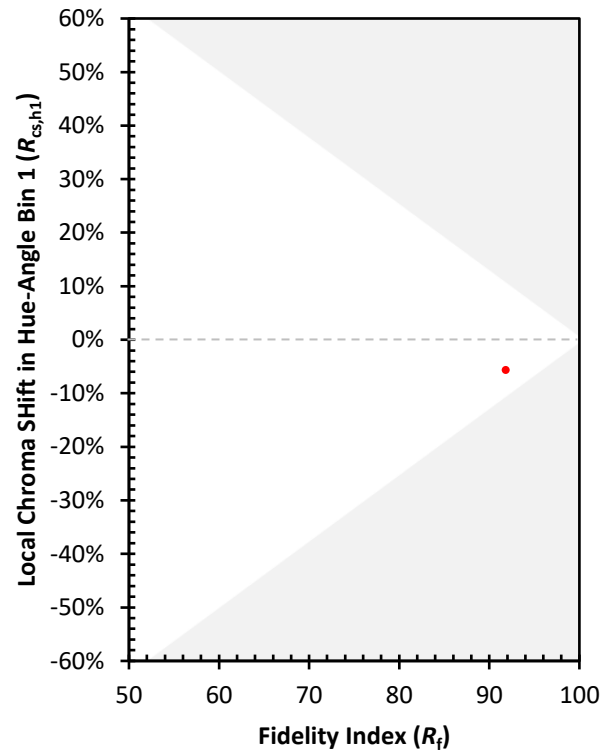
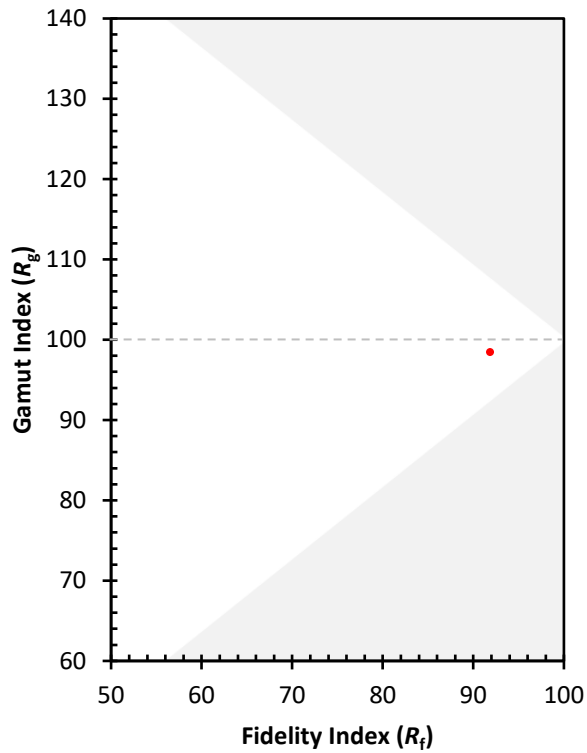
CES01 = 86	CES26 = 95	CES51 = 98	CES76 = 89
CES02 = 62	CES27 = 92	CES52 = 99	CES77 = 90
CES03 = 31	CES28 = 97	CES53 = 98	CES78 = 86
CES04 = 70	CES29 = 97	CES54 = 93	CES79 = 94
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 93
CES06 = 51	CES31 = 97	CES56 = 95	CES81 = 84
CES07 = 42	CES32 = 92	CES57 = 94	CES82 = 97
CES08 = 41	CES33 = 99	CES58 = 94	CES83 = 97
CES09 = 29	CES34 = 96	CES59 = 97	CES84 = 95
CES10 = 75	CES35 = 97	CES60 = 93	CES85 = 83
CES11 = 58	CES36 = 83	CES61 = 93	CES86 = 83
CES12 = 64	CES37 = 97	CES62 = 88	CES87 = 92
CES13 = 43	CES38 = 88	CES63 = 93	CES88 = 96
CES14 = 74	CES39 = 98	CES64 = 91	CES89 = 86
CES15 = 71	CES40 = 96	CES65 = 88	CES90 = 96
CES16 = 47	CES41 = 97	CES66 = 89	CES91 = 76
CES17 = 49	CES42 = 96	CES67 = 88	CES92 = 78
CES18 = 56	CES43 = 96	CES68 = 90	CES93 = 87
CES19 = 71	CES44 = 99	CES69 = 91	CES94 = 78
CES20 = 66	CES45 = 98	CES70 = 88	CES95 = 83
CES21 = 86	CES46 = 97	CES71 = 83	CES96 = 91
CES22 = 78	CES47 = 95	CES72 = 95	CES97 = 96
CES23 = 91	CES48 = 91	CES73 = 83	CES98 = 94
CES24 = 90	CES49 = 96	CES74 = 92	CES99 = 90
CES25 = 71	CES50 = 98	CES75 = 84	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)