

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: P1250561

Luminaire Tested: P3A24R709027D010 E3LDWW1H

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1250561
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: P3A24R709027D010 E3LDWW1H
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 90CRI , E3LDWW1H TRIM
Light Source: -
Ballast/Driver: -

Summary

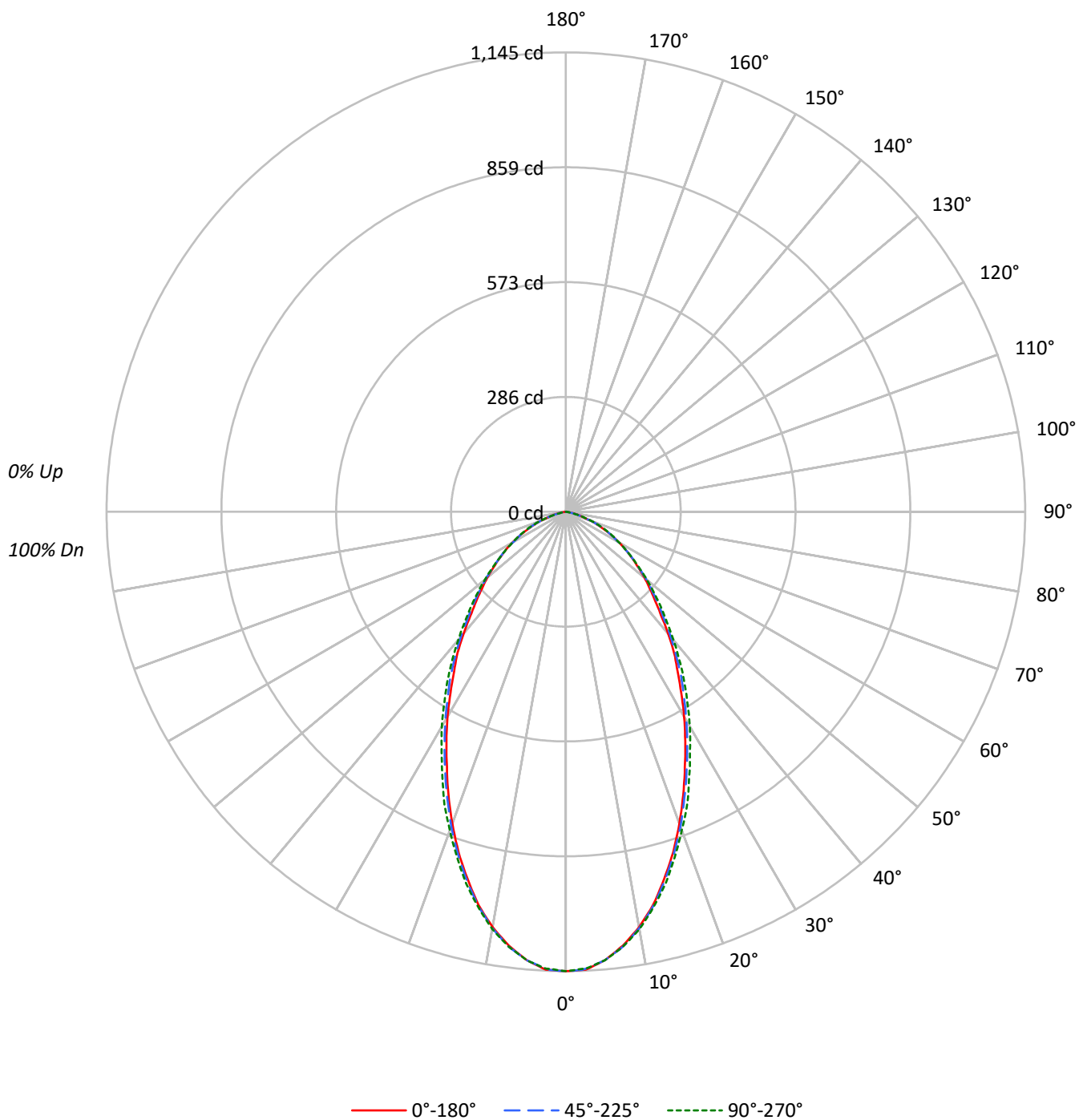
Lumens per Lamp: N/A
Luminaire Lumens: 1595.0 lumens
Efficiency: N/A
Efficacy: 55.4 lumens/watt
Spacing Criteria (0/90/45): 0.87 / 0.89 / 0.97
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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: P1250561

CATALOG NUMBER: P3A24R709027D010 E3LDWW1H

Luminous Intensity Polar Plot



TEST NUMBER: P1250561

CATALOG NUMBER: P3A24R709027D010 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°	251098	251098	251098
5°	246907	246907	246907
10°	234064	234643	235222
15°	214962	216142	217913
20°	192960	194780	197230
25°	169776	172292	176091
30°	149263	151922	156530
35°	129884	134060	137567
40°	113498	116475	119481
45°	97871	101127	103546
50°	87195	89003	89890
55°	76805	77799	77799
60°	67495	66354	67495
65°	55466	56867	58216
70°	43469	43469	45136
75°	28721	26518	26518
80°	16416	13133	9850
85°	6542	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 75°

Vertical Angle: 45°

Luminance: 103546 cd/sqm

TEST NUMBER: P1250561

CATALOG NUMBER: P3A24R709027D010 E3LDWW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	6.6
10°-20°	265.9	16.7
20°-30°	328.0	20.6
30°-40°	312.5	19.6
40°-50°	252.8	15.9
50°-60°	182.1	11.4
60°-70°	109.0	6.8
70°-80°	36.5	2.3
80°-90°	3.1	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°	698.8	43.8
0°-40°	1011.4	63.4
0°-60°	1446.3	90.7
0°-90°	1595.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1595.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1145	1145	1145	1145	1145	
5°	1122	1122	1122	1122	1122	105
15°	947	949	952	955	960	265
25°	702	706	712	723	728	323
35°	485	489	501	510	514	305
45°	316	320	326	332	334	246
55°	201	201	204	204	204	181
65°	107	110	110	112	112	107
75°	34	34	31	31	31	38
85°	3	3	0	0	0	5
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2°	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1139.9
2.5°	1142.5	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	1142.5	1139.9
5°	1121.7	1121.7	1121.7	1121.7	1121.7	1121.7	1121.7	1121.7	1124.3	1121.7	1121.7
7.5°	1090.4	1090.4	1090.4	1090.4	1093.0	1093.0	1093.0	1093.0	1095.6	1095.6	1093.0
10°	1051.2	1051.2	1051.2	1051.2	1053.8	1053.8	1056.4	1053.8	1053.8	1056.4	1056.4
12.5°	1004.3	1001.7	1001.7	1001.7	1004.3	1006.9	1006.9	1006.9	1009.5	1009.5	1009.5
15°	946.9	946.9	946.9	949.5	949.5	952.1	954.7	954.7	957.3	957.3	959.9
17.5°	889.5	889.5	886.9	889.5	892.1	894.7	897.3	899.9	902.5	902.5	902.5
20°	826.9	824.3	826.9	829.5	832.1	834.7	837.3	842.5	845.2	845.2	845.2
22.5°	764.3	761.7	764.3	766.9	769.5	772.1	779.9	782.6	785.2	785.2	790.4
25°	701.7	701.7	704.3	706.9	709.5	712.1	717.3	722.6	725.2	727.8	727.8
27.5°	644.3	644.3	644.3	644.3	649.5	654.7	660.0	665.2	667.8	670.4	670.4
30°	589.5	586.9	586.9	589.5	594.7	600.0	605.2	610.4	613.0	615.6	618.2
32.5°	534.7	534.7	534.7	537.4	540.0	547.8	553.0	555.6	560.8	563.4	563.4
35°	485.2	485.2	485.2	490.4	495.6	500.8	503.4	508.7	513.9	513.9	513.9
37.5°	443.4	446.1	451.3	448.7	448.7	451.3	453.9	459.1	464.3	464.3	464.3
40°	396.5	399.1	401.7	399.1	401.7	406.9	409.5	412.1	414.8	417.4	417.4
42.5°	352.1	352.1	352.1	354.8	360.0	362.6	367.8	370.4	373.0	373.0	373.0
45°	315.6	315.6	318.2	320.8	323.5	326.1	328.7	331.3	333.9	333.9	333.9
47.5°	284.3	284.3	286.9	286.9	289.5	292.2	294.8	294.8	297.4	300.0	297.4
50°	255.6	255.6	255.6	258.2	258.2	260.9	260.9	263.5	263.5	263.5	263.5
52.5°	226.9	226.9	226.9	226.9	229.5	229.5	229.5	232.2	232.2	232.2	232.2
55°	200.9	200.9	200.9	200.9	200.9	203.5	203.5	203.5	203.5	203.5	203.5
57.5°	177.4	177.4	177.4	177.4	177.4	177.4	177.4	177.4	177.4	177.4	177.4
60°	153.9	153.9	153.9	153.9	153.9	151.3	153.9	153.9	153.9	153.9	153.9
62.5°	130.4	130.4	130.4	130.4	130.4	130.4	130.4	133.0	133.0	133.0	133.0
65°	106.9	109.6	109.6	109.6	109.6	109.6	109.6	112.2	112.2	112.2	112.2
67.5°	86.1	88.7	88.7	88.7	88.7	88.7	88.7	88.7	91.3	91.3	91.3
70°	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	70.4
72.5°	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	49.6	49.6	49.6
75°	33.9	33.9	33.9	33.9	31.3	31.3	31.3	31.3	31.3	31.3	31.3
77.5°	23.5	23.5	23.5	20.9	20.9	18.3	18.3	18.3	18.3	18.3	15.7
80°	13.0	13.0	13.0	13.0	13.0	10.4	10.4	7.8	7.8	7.8	7.8
82.5°	7.8	7.8	7.8	5.2	5.2	5.2	5.2	2.6	2.6	2.6	2.6
85°	2.6	2.6	2.6	2.6	2.6	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: SP1-2508-518-1

Test Date: 09/09/2025

Luminaire Tested: LD3A24R159027D010 E3D1LI

Data in this report applies to families of products including LD3A24R159027D010 E3D1LI

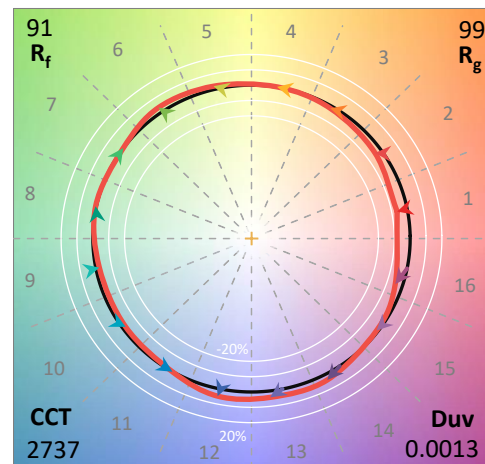
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2508-518-1
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 09/16/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: IRiS
 Catalog Number: **LD3A24R159027D010 E3D1LI**
 Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 90CRI , E3D1LI TRIM

Spectral Parameters

CCT (K): 2737
 CIE u' : 0.2605
 CIE v' : 0.5285
 Duv: 0.0013
 CIE x: 0.4590
 CIE y: 0.4138
 CIE z: 0.1272
 Peak Wavelength (nm): 630
 Dominant Wavelength (nm): 583
 Purity: 62.00127
 R_f: 90.8
 R_g: 99.1

CRI (Ra): 91.4
 R1: 92.1
 R2: 95.0
 R3: 97.1
 R4: 93.2
 R5: 91.6
 R6: 95.8
 R7: 90.2
 R8: 76.6
 R9: 46.0
 R10: 87.1
 R11: 94.9
 R12: 83.0
 R13: 92.7
 R14: 97.1
 R15: 85.9



Test Conditions

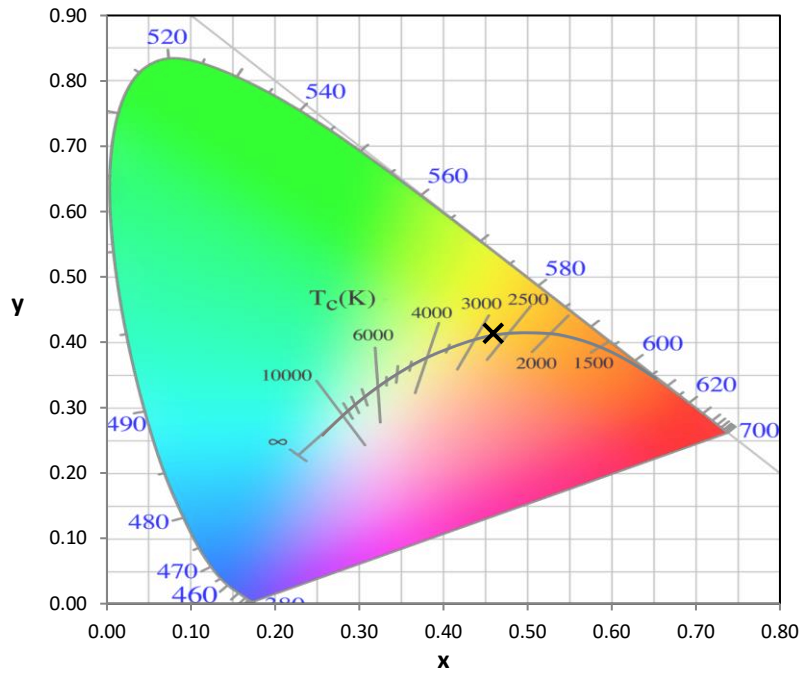
Stabilization Time: 70M
 Operation Time: 2H 10M
 Sphere Temperature (°C): 25.2

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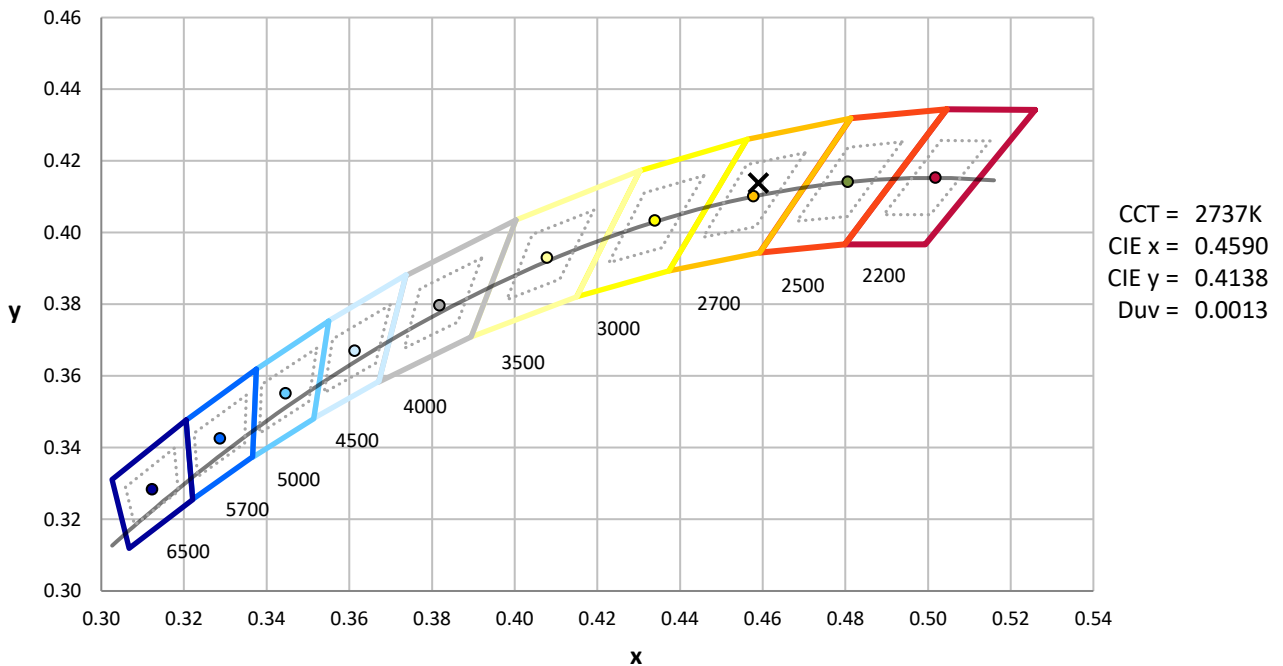
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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



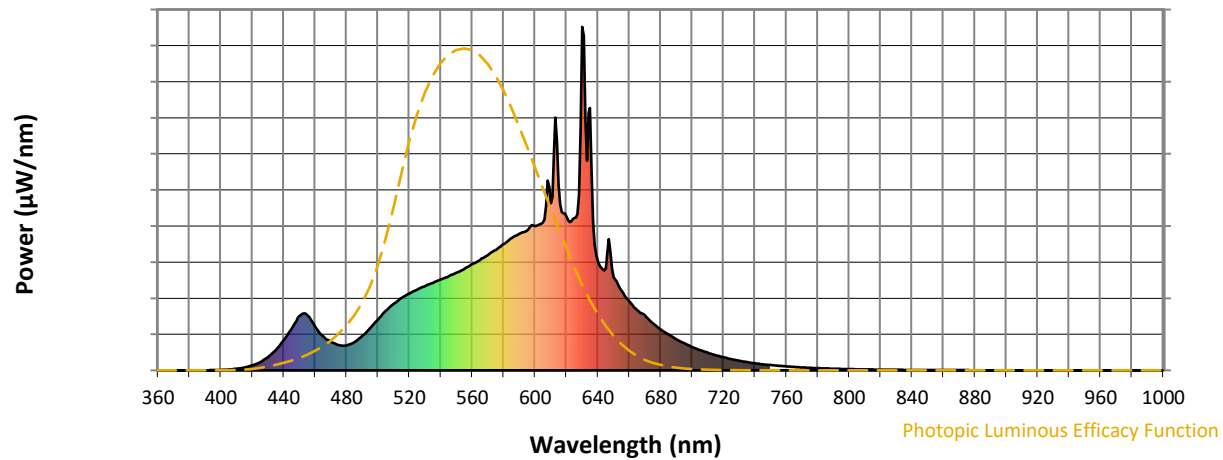
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

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Photopic Flux vs. Wavelength

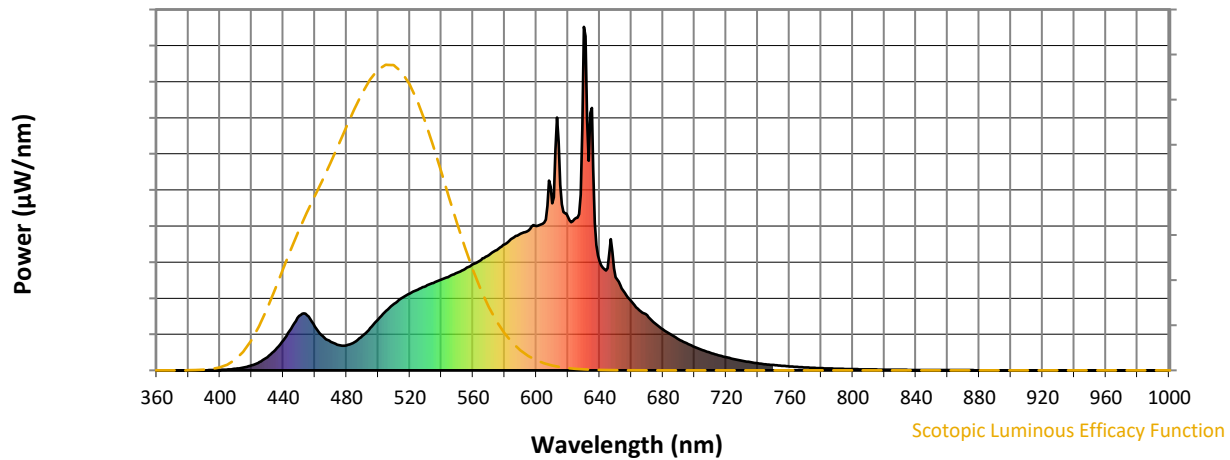


Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	100	NR	620	447	NR	750	16	NR	880	0	NR
365	0	NR	495	123	NR	625	443	NR	755	13	NR	885	0	NR
370	0	NR	500	148	NR	630	1000	NR	760	11	NR	890	0	NR
375	0	NR	505	173	NR	635	764	NR	765	10	NR	895	0	NR
380	0	NR	510	194	NR	640	317	NR	770	9	NR	900	0	NR
385	0	NR	515	211	NR	645	298	NR	775	7	NR	905	0	NR
390	0	NR	520	224	NR	650	271	NR	780	7	NR	910	0	NR
395	1	NR	525	235	NR	655	232	NR	785	6	NR	915	0	NR
400	1	NR	530	245	NR	660	202	NR	790	5	NR	920	0	NR
405	3	NR	535	255	NR	665	175	NR	795	4	NR	925	0	NR
410	5	NR	540	265	NR	670	160	NR	800	4	NR	930	0	NR
415	8	NR	545	273	NR	675	137	NR	805	3	NR	935	0	NR
420	15	NR	550	284	NR	680	119	NR	810	3	NR	940	0	NR
425	24	NR	555	295	NR	685	104	NR	815	2	NR	945	0	NR
430	38	NR	560	309	NR	690	91	NR	820	2	NR	950	0	NR
435	60	NR	565	321	NR	695	79	NR	825	2	NR	955	0	NR
440	88	NR	570	336	NR	700	68	NR	830	2	NR	960	0	NR
445	121	NR	575	350	NR	705	59	NR	835	1	NR	965	0	NR
450	158	NR	580	367	NR	710	51	NR	840	1	NR	970	0	NR
455	161	NR	585	384	NR	715	44	NR	845	1	NR	975	0	NR
460	128	NR	590	398	NR	720	38	NR	850	1	NR	980	0	NR
465	100	NR	595	407	NR	725	33	NR	855	1	NR	985	0	NR
470	83	NR	600	420	NR	730	28	NR	860	1	NR	990	0	NR
475	74	NR	605	431	NR	735	24	NR	865	1	NR	995	0	NR
480	73	NR	610	486	NR	740	20	NR	870	1	NR	1000	0	NR
485	82	NR	615	541	NR	745	17	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



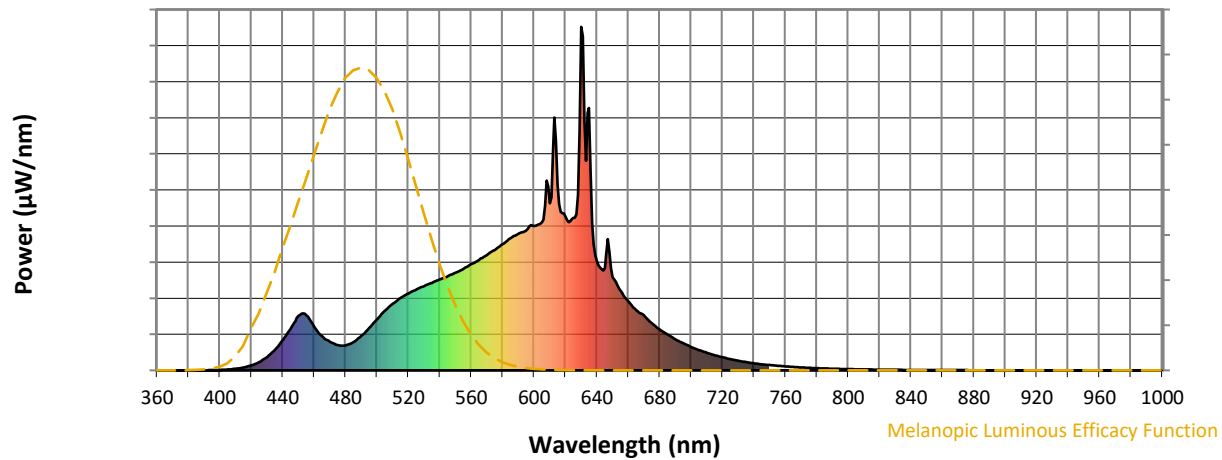
Scotopic Lumens: NR

S/P: 1.27

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	100	NR	620	447	NR	750	16	NR	880	0	NR
365	0	NR	495	123	NR	625	443	NR	755	13	NR	885	0	NR
370	0	NR	500	148	NR	630	1000	NR	760	11	NR	890	0	NR
375	0	NR	505	173	NR	635	764	NR	765	10	NR	895	0	NR
380	0	NR	510	194	NR	640	317	NR	770	9	NR	900	0	NR
385	0	NR	515	211	NR	645	298	NR	775	7	NR	905	0	NR
390	0	NR	520	224	NR	650	271	NR	780	7	NR	910	0	NR
395	1	NR	525	235	NR	655	232	NR	785	6	NR	915	0	NR
400	1	NR	530	245	NR	660	202	NR	790	5	NR	920	0	NR
405	3	NR	535	255	NR	665	175	NR	795	4	NR	925	0	NR
410	5	NR	540	265	NR	670	160	NR	800	4	NR	930	0	NR
415	8	NR	545	273	NR	675	137	NR	805	3	NR	935	0	NR
420	15	NR	550	284	NR	680	119	NR	810	3	NR	940	0	NR
425	24	NR	555	295	NR	685	104	NR	815	2	NR	945	0	NR
430	38	NR	560	309	NR	690	91	NR	820	2	NR	950	0	NR
435	60	NR	565	321	NR	695	79	NR	825	2	NR	955	0	NR
440	88	NR	570	336	NR	700	68	NR	830	2	NR	960	0	NR
445	121	NR	575	350	NR	705	59	NR	835	1	NR	965	0	NR
450	158	NR	580	367	NR	710	51	NR	840	1	NR	970	0	NR
455	161	NR	585	384	NR	715	44	NR	845	1	NR	975	0	NR
460	128	NR	590	398	NR	720	38	NR	850	1	NR	980	0	NR
465	100	NR	595	407	NR	725	33	NR	855	1	NR	985	0	NR
470	83	NR	600	420	NR	730	28	NR	860	1	NR	990	0	NR
475	74	NR	605	431	NR	735	24	NR	865	1	NR	995	0	NR
480	73	NR	610	486	NR	740	20	NR	870	1	NR	1000	0	NR
485	82	NR	615	541	NR	745	17	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.37

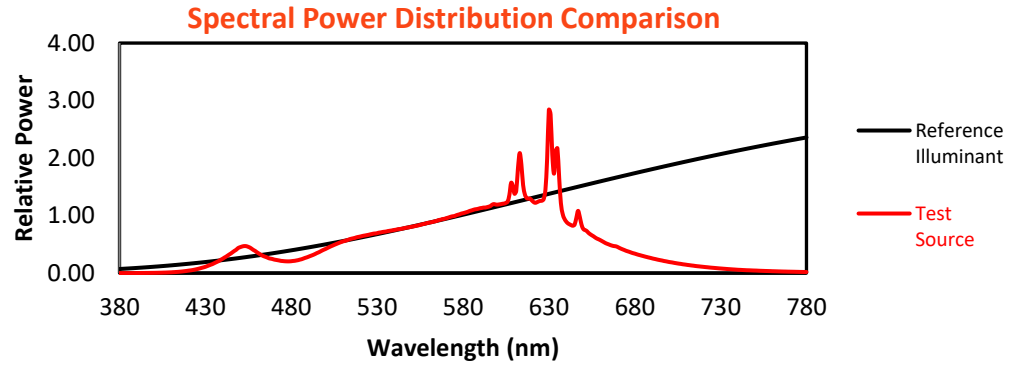
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	100	NR	620	447	NR	750	16	NR	880	0	NR
365	0	NR	495	123	NR	625	443	NR	755	13	NR	885	0	NR
370	0	NR	500	148	NR	630	1000	NR	760	11	NR	890	0	NR
375	0	NR	505	173	NR	635	764	NR	765	10	NR	895	0	NR
380	0	NR	510	194	NR	640	317	NR	770	9	NR	900	0	NR
385	0	NR	515	211	NR	645	298	NR	775	7	NR	905	0	NR
390	0	NR	520	224	NR	650	271	NR	780	7	NR	910	0	NR
395	1	NR	525	235	NR	655	232	NR	785	6	NR	915	0	NR
400	1	NR	530	245	NR	660	202	NR	790	5	NR	920	0	NR
405	3	NR	535	255	NR	665	175	NR	795	4	NR	925	0	NR
410	5	NR	540	265	NR	670	160	NR	800	4	NR	930	0	NR
415	8	NR	545	273	NR	675	137	NR	805	3	NR	935	0	NR
420	15	NR	550	284	NR	680	119	NR	810	3	NR	940	0	NR
425	24	NR	555	295	NR	685	104	NR	815	2	NR	945	0	NR
430	38	NR	560	309	NR	690	91	NR	820	2	NR	950	0	NR
435	60	NR	565	321	NR	695	79	NR	825	2	NR	955	0	NR
440	88	NR	570	336	NR	700	68	NR	830	2	NR	960	0	NR
445	121	NR	575	350	NR	705	59	NR	835	1	NR	965	0	NR
450	158	NR	580	367	NR	710	51	NR	840	1	NR	970	0	NR
455	161	NR	585	384	NR	715	44	NR	845	1	NR	975	0	NR
460	128	NR	590	398	NR	720	38	NR	850	1	NR	980	0	NR
465	100	NR	595	407	NR	725	33	NR	855	1	NR	985	0	NR
470	83	NR	600	420	NR	730	28	NR	860	1	NR	990	0	NR
475	74	NR	605	431	NR	735	24	NR	865	1	NR	995	0	NR
480	73	NR	610	486	NR	740	20	NR	870	1	NR	1000	0	NR
485	82	NR	615	541	NR	745	17	NR	875	1	NR			

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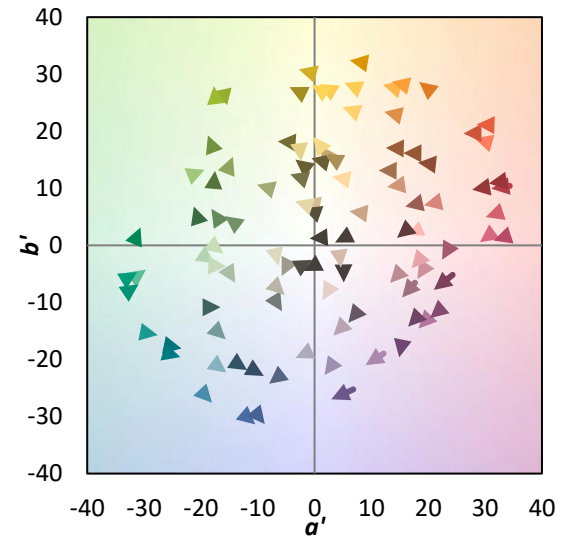
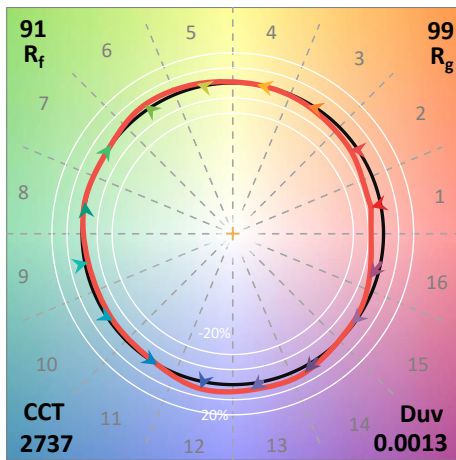
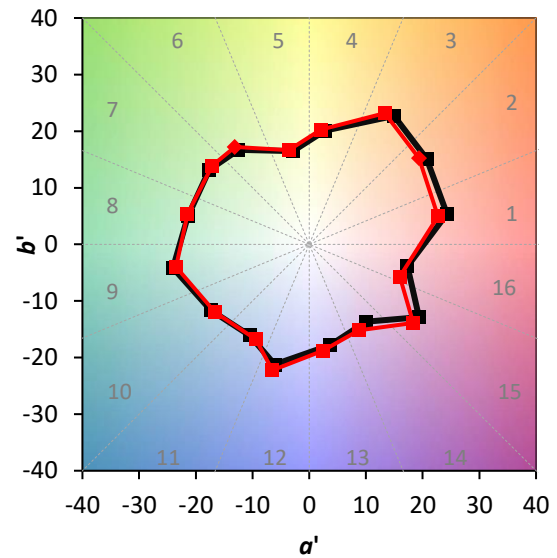
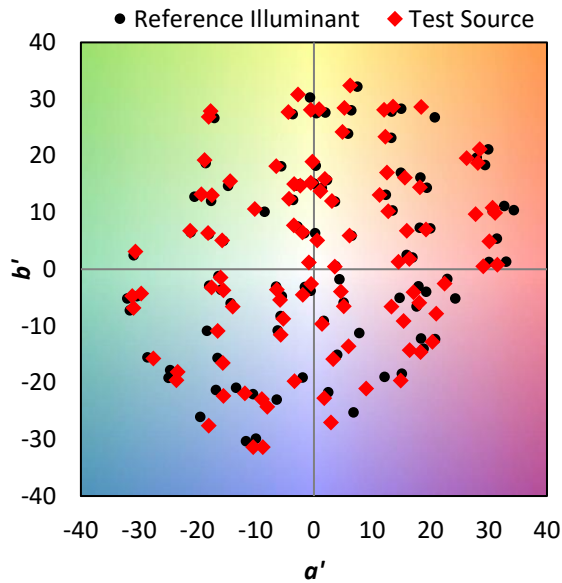
TM-30-18

Summary

$R_f = 90.8$
 $R_g = 99.1$
 $CIE R_a = 91.4$
 $R_9 = 46.0$

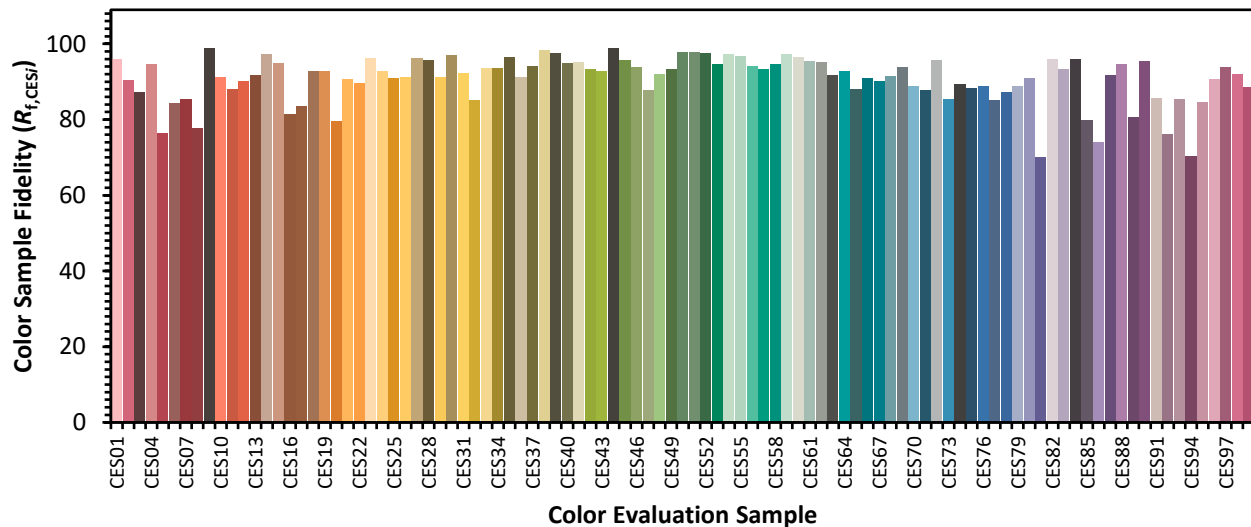


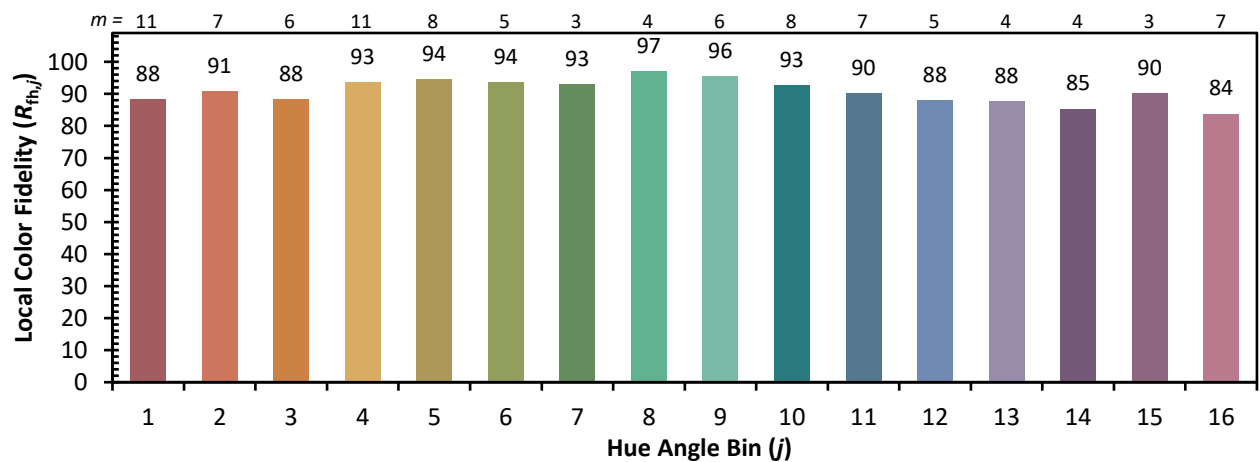
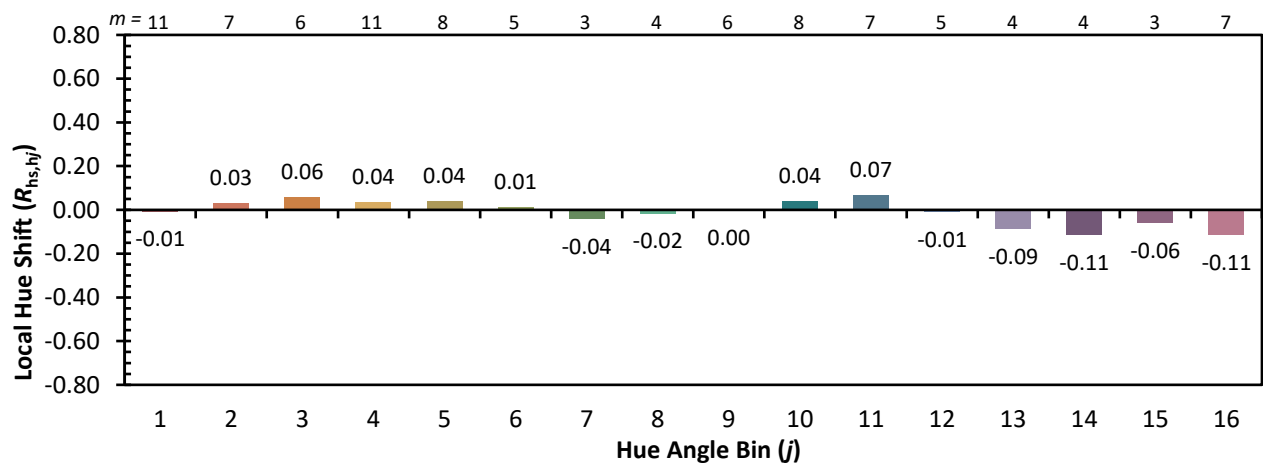
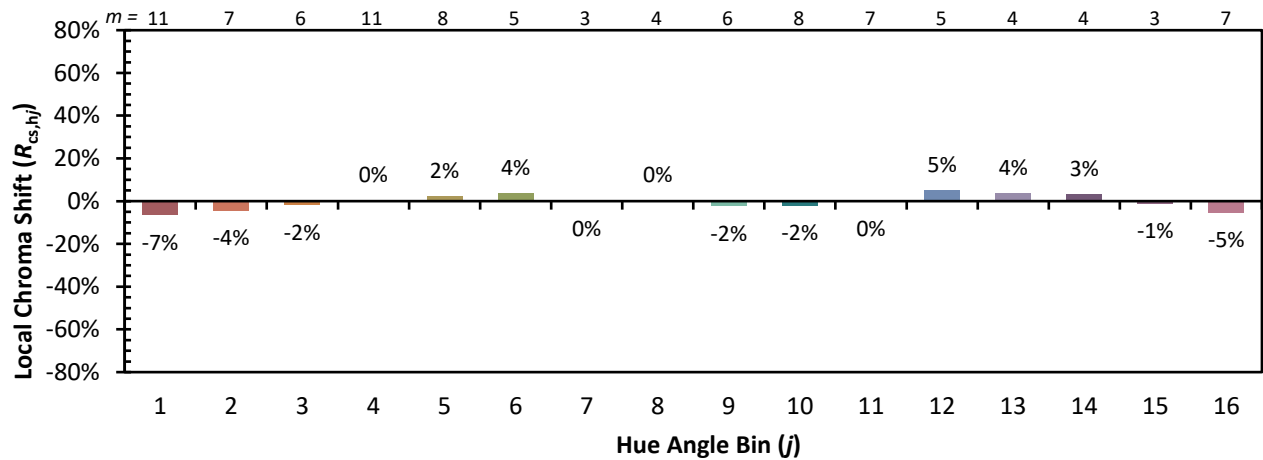
Color Vector Graphics



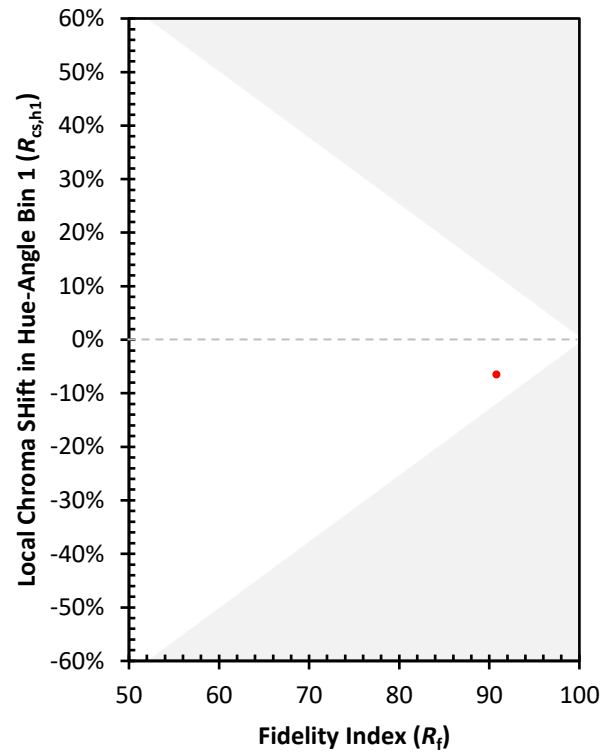
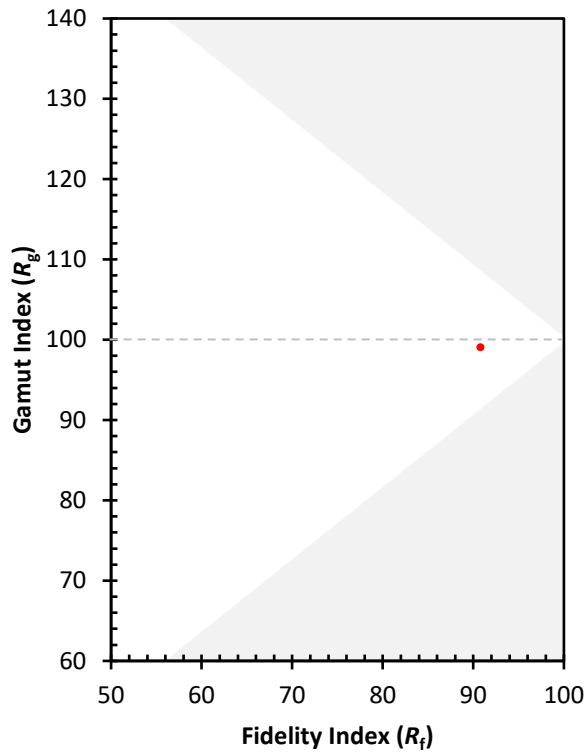
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 91	CES51 = 98	CES76 = 89
CES02 = 64	CES27 = 96	CES52 = 98	CES77 = 85
CES03 = 32	CES28 = 96	CES53 = 95	CES78 = 87
CES04 = 71	CES29 = 91	CES54 = 97	CES79 = 89
CES05 = 51	CES30 = 97	CES55 = 97	CES80 = 91
CES06 = 51	CES31 = 92	CES56 = 94	CES81 = 70
CES07 = 44	CES32 = 85	CES57 = 93	CES82 = 96
CES08 = 42	CES33 = 94	CES58 = 95	CES83 = 93
CES09 = 29	CES34 = 94	CES59 = 97	CES84 = 96
CES10 = 77	CES35 = 97	CES60 = 97	CES85 = 80
CES11 = 59	CES36 = 91	CES61 = 95	CES86 = 74
CES12 = 66	CES37 = 94	CES62 = 95	CES87 = 92
CES13 = 44	CES38 = 98	CES63 = 92	CES88 = 95
CES14 = 74	CES39 = 97	CES64 = 93	CES89 = 81
CES15 = 72	CES40 = 95	CES65 = 88	CES90 = 96
CES16 = 48	CES41 = 95	CES66 = 91	CES91 = 86
CES17 = 50	CES42 = 93	CES67 = 90	CES92 = 76
CES18 = 57	CES43 = 93	CES68 = 92	CES93 = 85
CES19 = 72	CES44 = 99	CES69 = 94	CES94 = 70
CES20 = 68	CES45 = 96	CES70 = 89	CES95 = 85
CES21 = 87	CES46 = 94	CES71 = 88	CES96 = 91
CES22 = 79	CES47 = 88	CES72 = 96	CES97 = 94
CES23 = 92	CES48 = 92	CES73 = 85	CES98 = 92
CES24 = 91	CES49 = 93	CES74 = 89	CES99 = 89
CES25 = 72	CES50 = 98	CES75 = 88	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)