

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: P1261279

Luminaire Tested: P3A24R709050D010 E3LDWW1H

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1261279
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: P3A24R709050D010 E3LDWW1H
Description: 3in Adjustable LED luminaire with, R70 optic, 5000K CCT AND, 90CRI , E3LDWW1H TRIM
Light Source: -
Ballast/Driver: -

Summary

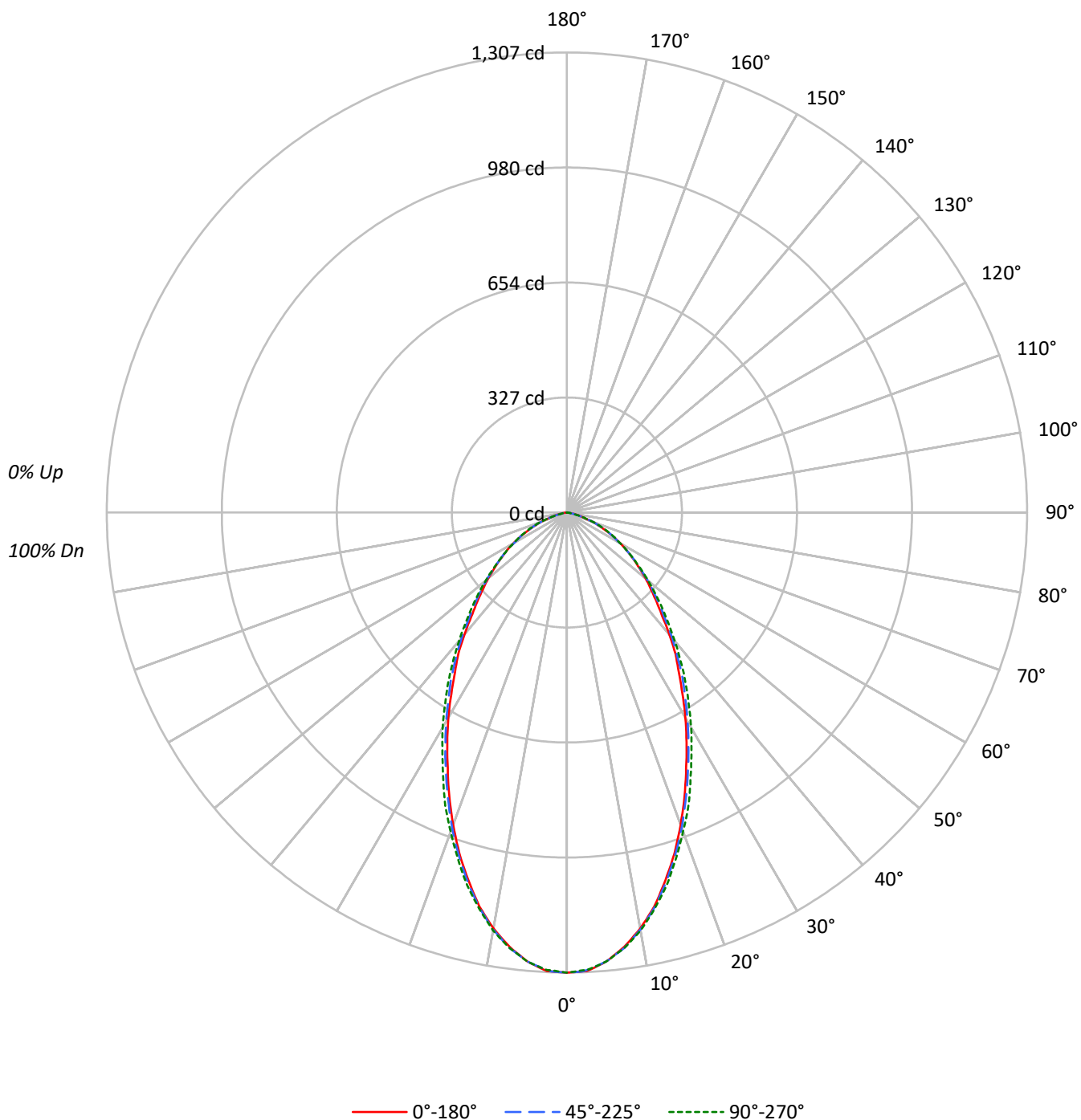
Lumens per Lamp: N/A
Luminaire Lumens: 1821.0 lumens
Efficiency: N/A
Efficacy: 63.2 lumens/watt
Spacing Criteria (0/90/45): 0.87 / 0.89 / 0.97
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1261279

CATALOG NUMBER: P3A24R709050D010 E3LDWW1H

Luminous Intensity Polar Plot



TEST NUMBER: P1261279

CATALOG NUMBER: P3A24R709050D010 E3LDWW1H

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				0
RW	70	50	30	10	70	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		100
1	111	108	104	101	109	105	102	100	101	99	97		97	95	94		89
2	103	97	91	87	101	95	90	86	92	87	84		88	85	82		78
3	96	87	81	75	94	86	80	75	83	78	73		80	76	72		69
4	89	79	72	66	87	78	71	66	76	70	65		73	68	64		61
5	83	72	64	59	81	71	64	59	69	63	58		67	62	57		55
6	78	66	58	53	76	65	58	53	64	57	52		62	56	52		50
7	73	61	53	48	71	60	53	48	59	52	47		57	52	47		45
8	68	56	49	44	67	56	49	44	54	48	43		53	47	43		41
9	64	52	45	40	63	52	45	40	51	44	40		50	44	40		38
10	61	49	42	37	60	48	42	37	47	41	37		47	41	37		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	286688	286688	286688
5°	281883	281883	281883
10°	267241	267909	268554
15°	245427	246766	248787
20°	220309	222386	225163
25°	193826	196705	201036
30°	170431	173444	178711
35°	148275	153066	157055
40°	129586	132992	136398
45°	111764	115454	118214
50°	99579	101592	102615
55°	87662	88809	88809
60°	77055	75740	77055
65°	63353	64910	66466
70°	49624	49624	51547
75°	32788	30246	30246
80°	18816	15027	11239
85°	7548	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 75°

Vertical Angle: 45°

Luminance: 118214 cd/sqm

TEST NUMBER: P1261279

CATALOG NUMBER: P3A24R709050D010 E3LDWW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.8	6.6
10°-20°	303.6	16.7
20°-30°	374.5	20.6
30°-40°	356.8	19.6
40°-50°	288.7	15.9
50°-60°	207.9	11.4
60°-70°	124.5	6.8
70°-80°	41.7	2.3
80°-90°	3.6	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°	797.8	43.8
0°-40°	1154.7	63.4
0°-60°	1651.3	90.7
0°-90°	1821.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1821.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1307	1307	1307	1307	1307	
5°	1281	1281	1281	1281	1281	120
15°	1081	1083	1087	1091	1096	302
25°	801	806	813	826	831	369
35°	554	558	572	582	587	348
45°	360	366	372	379	381	281
55°	229	229	232	232	232	206
65°	122	125	125	128	128	122
75°	39	39	36	36	36	43
85°	3	3	0	0	0	5
90°	0	0	0	0	0	

TEST NUMBER: P1261279

CATALOG NUMBER: P3A24R709050D010 E3LDWW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1307.4	1307.4	1307.4	1307.4	1307.4	1307.4	1307.4	1307.4	1307.4	1307.4	1307.4
2°	1304.4	1304.4	1304.4	1304.4	1304.4	1304.4	1304.4	1304.4	1304.4	1304.4	1301.4
2.5°	1304.4	1301.4	1301.4	1301.4	1301.4	1301.4	1301.4	1301.4	1301.4	1304.4	1301.4
5°	1280.6	1280.6	1280.6	1280.6	1280.6	1280.6	1280.6	1280.6	1283.6	1280.6	1280.6
7.5°	1244.9	1244.9	1244.9	1244.9	1247.8	1247.8	1247.8	1247.8	1250.8	1250.8	1247.8
10°	1200.2	1200.2	1200.2	1200.2	1203.2	1203.2	1206.1	1203.2	1203.2	1206.1	1206.1
12.5°	1146.6	1143.6	1143.6	1143.6	1146.6	1149.6	1149.6	1149.6	1152.5	1152.5	1152.5
15°	1081.1	1081.1	1081.1	1084.0	1084.0	1087.0	1090.0	1090.0	1093.0	1093.0	1095.9
17.5°	1015.5	1015.5	1012.6	1015.5	1018.5	1021.5	1024.5	1027.5	1030.4	1030.4	1030.4
20°	944.1	941.1	944.1	947.0	950.0	953.0	956.0	961.9	964.9	964.9	964.9
22.5°	872.6	869.6	872.6	875.6	878.5	881.5	890.5	893.4	896.4	896.4	902.4
25°	801.1	801.1	804.1	807.1	810.0	813.0	819.0	824.9	827.9	830.9	830.9
27.5°	735.6	735.6	735.6	735.6	741.6	747.5	753.5	759.4	762.4	765.4	765.4
30°	673.1	670.1	670.1	673.1	679.0	685.0	690.9	696.9	699.9	702.8	705.8
32.5°	610.5	610.5	610.5	613.5	616.5	625.4	631.4	634.3	640.3	643.3	643.3
35°	553.9	553.9	553.9	559.9	565.8	571.8	574.8	580.7	586.7	586.7	586.7
37.5°	506.3	509.3	515.2	512.2	512.2	515.2	518.2	524.1	530.1	530.1	530.1
40°	452.7	455.7	458.6	455.7	458.6	464.6	467.6	470.5	473.5	476.5	476.5
42.5°	402.0	402.0	402.0	405.0	411.0	414.0	419.9	422.9	425.9	425.9	425.9
45°	360.4	360.4	363.3	366.3	369.3	372.3	375.2	378.2	381.2	381.2	381.2
47.5°	324.6	324.6	327.6	327.6	330.6	333.5	336.5	336.5	339.5	342.5	339.5
50°	291.9	291.9	291.9	294.8	294.8	297.8	297.8	300.8	300.8	300.8	300.8
52.5°	259.1	259.1	259.1	259.1	262.1	262.1	262.1	265.1	265.1	265.1	265.1
55°	229.3	229.3	229.3	229.3	229.3	232.3	232.3	232.3	232.3	232.3	232.3
57.5°	202.5	202.5	202.5	202.5	202.5	202.5	202.5	202.5	202.5	202.5	202.5
60°	175.7	175.7	175.7	175.7	175.7	172.7	175.7	175.7	175.7	175.7	175.7
62.5°	148.9	148.9	148.9	148.9	148.9	148.9	148.9	151.9	151.9	151.9	151.9
65°	122.1	125.1	125.1	125.1	125.1	125.1	125.1	128.1	128.1	128.1	128.1
67.5°	98.3	101.3	101.3	101.3	101.3	101.3	101.3	101.3	104.2	104.2	104.2
70°	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	80.4
72.5°	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	56.6	56.6	56.6
75°	38.7	38.7	38.7	38.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7
77.5°	26.8	26.8	26.8	23.8	23.8	20.8	20.8	20.8	20.8	20.8	17.9
80°	14.9	14.9	14.9	14.9	14.9	11.9	11.9	8.9	8.9	8.9	8.9
82.5°	8.9	8.9	8.9	6.0	6.0	6.0	6.0	3.0	3.0	3.0	3.0
85°	3.0	3.0	3.0	3.0	3.0	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: SP1-2508-518-5

Test Date: 09/11/2025

Luminaire Tested: LD3A24R159050D010 E3D1LI

Data in this report applies to families of products including LD3A24R159050D010 E3D1LI

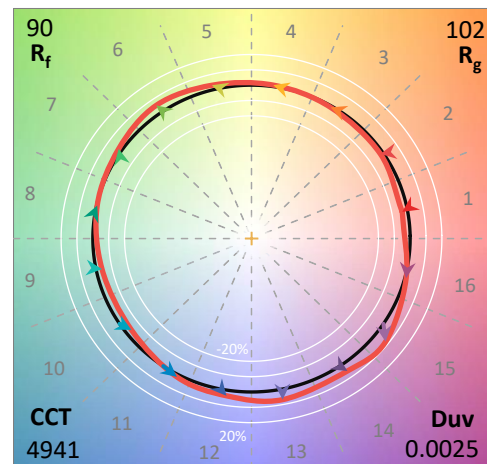
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2508-518-5
 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: **LD3A24R159050D010 E3D1LI**
 Description: 3in Adjustable LED luminaire with, R15 optic, 5000K CCT AND, 90CRI , E3D1LI TRIM

Spectral Parameters

CCT (K): 4941
 CIE u' : 0.2103
 CIE v' : 0.4882
 Duv: 0.0025
 CIE x: 0.3473
 CIE y: 0.3583
 CIE z: 0.2944
 Peak Wavelength (nm): 630
 Dominant Wavelength (nm): 571
 Purity: 11.7232
 R_f: 90.3
 R_g: 102.5

CRI (Ra): 92.8
 R1: 95.7
 R2: 92.6
 R3: 86.9
 R4: 93.9
 R5: 93.3
 R6: 89.1
 R7: 95.4
 R8: 95.4
 R9: 82.3
 R10: 79.2
 R11: 92.0
 R12: 66.8
 R13: 94.2
 R14: 91.7
 R15: 95.4



Test Conditions

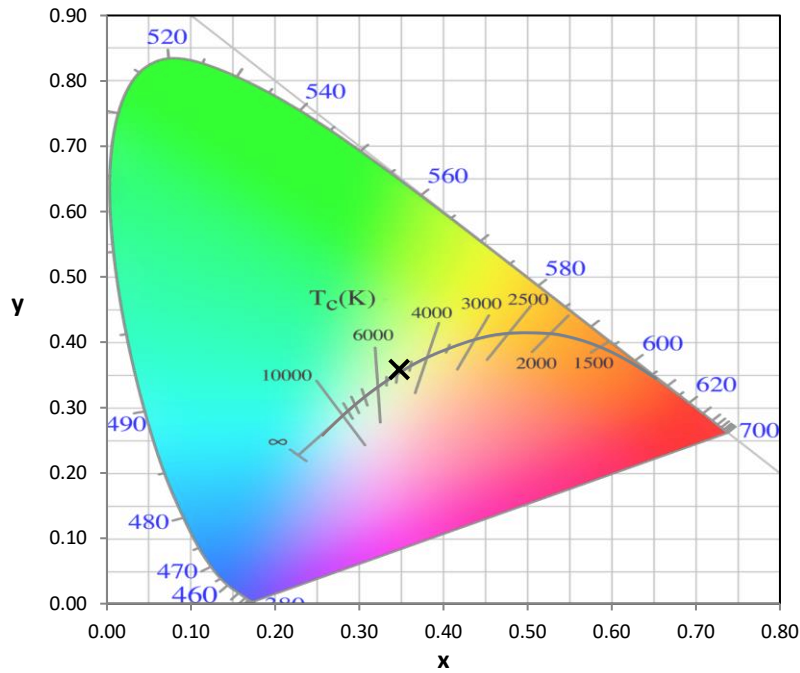
Stabilization Time: 76M
 Operation Time: 2H 16M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2508-518-5

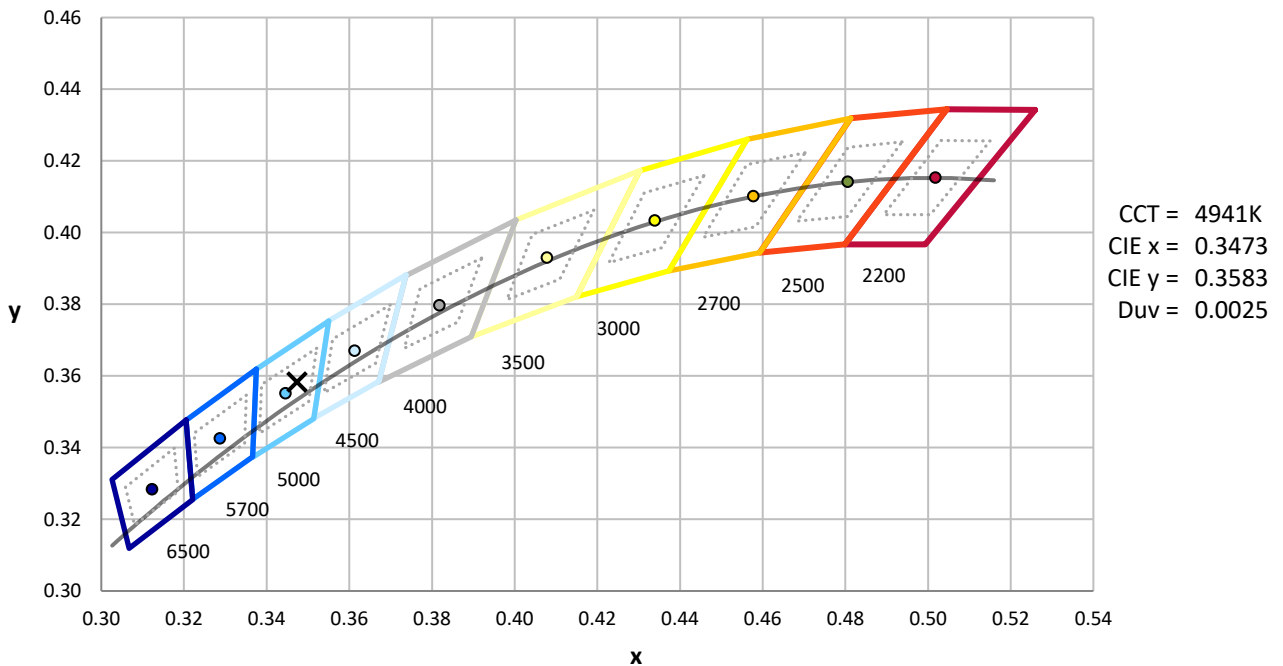
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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



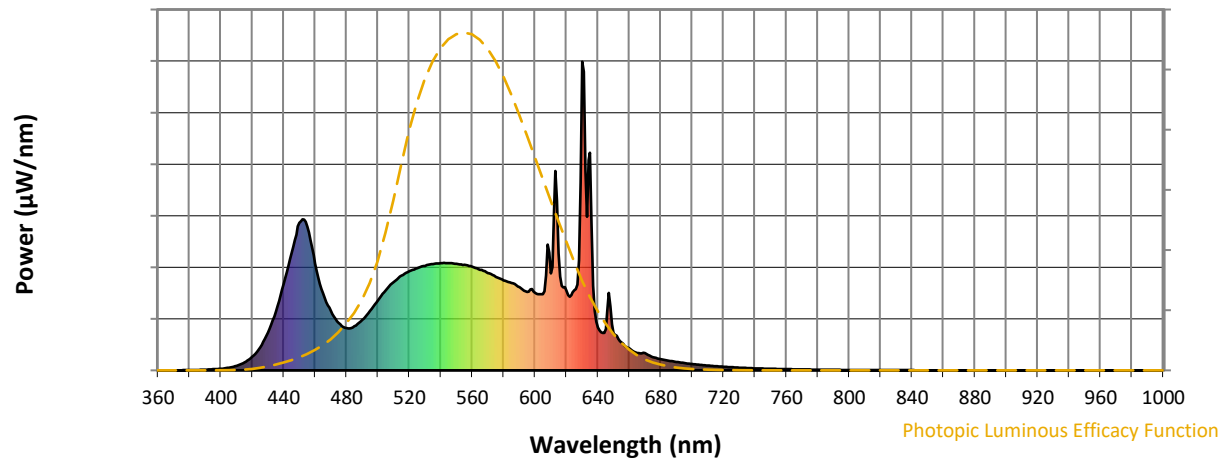
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

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Photopic Flux vs. Wavelength

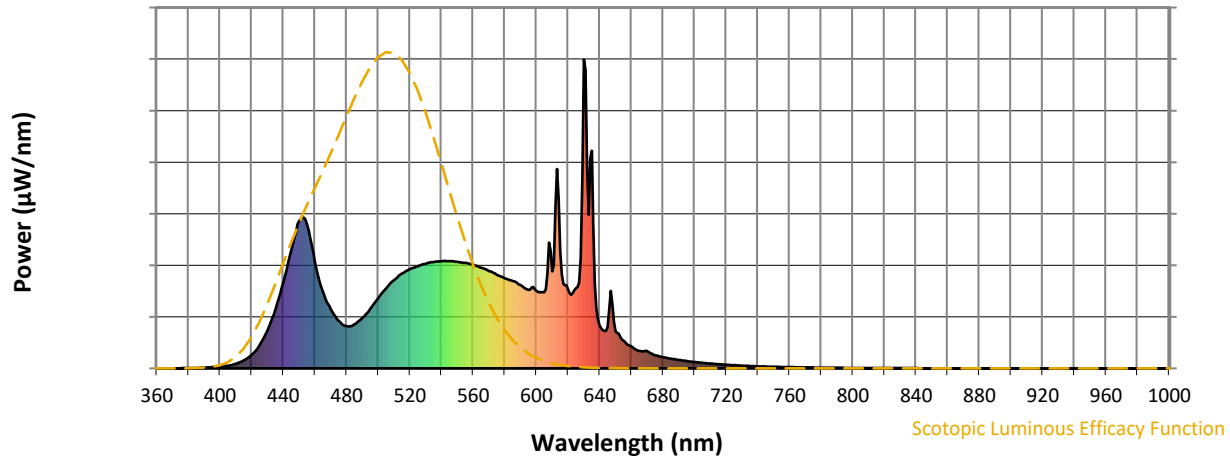


Photopic Lumens: NR

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	164	NR	620	257	NR	750	5	NR	880	0	NR
365	0	NR	495	193	NR	625	259	NR	755	5	NR	885	0	NR
370	0	NR	500	227	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	260	NR	635	705	NR	765	3	NR	895	0	NR
380	1	NR	510	286	NR	640	139	NR	770	3	NR	900	0	NR
385	2	NR	515	307	NR	645	134	NR	775	3	NR	905	0	NR
390	2	NR	520	321	NR	650	120	NR	780	2	NR	910	0	NR
395	4	NR	525	331	NR	655	90	NR	785	2	NR	915	0	NR
400	5	NR	530	338	NR	660	72	NR	790	2	NR	920	0	NR
405	9	NR	535	344	NR	665	56	NR	795	2	NR	925	0	NR
410	15	NR	540	347	NR	670	56	NR	800	1	NR	930	0	NR
415	26	NR	545	347	NR	675	43	NR	805	1	NR	935	0	NR
420	44	NR	550	345	NR	680	36	NR	810	1	NR	940	0	NR
425	75	NR	555	342	NR	685	32	NR	815	1	NR	945	0	NR
430	122	NR	560	336	NR	690	27	NR	820	1	NR	950	0	NR
435	191	NR	565	326	NR	695	24	NR	825	1	NR	955	0	NR
440	280	NR	570	315	NR	700	20	NR	830	1	NR	960	0	NR
445	380	NR	575	303	NR	705	18	NR	835	1	NR	965	0	NR
450	477	NR	580	292	NR	710	15	NR	840	1	NR	970	0	NR
455	466	NR	585	283	NR	715	14	NR	845	0	NR	975	0	NR
460	346	NR	590	269	NR	720	12	NR	850	0	NR	980	0	NR
465	250	NR	595	254	NR	725	10	NR	855	0	NR	985	0	NR
470	192	NR	600	251	NR	730	9	NR	860	0	NR	990	0	NR
475	153	NR	605	247	NR	735	8	NR	865	0	NR	995	0	NR
480	136	NR	610	314	NR	740	7	NR	870	0	NR	1000	0	NR
485	143	NR	615	380	NR	745	6	NR	875	0	NR			

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Scotopic Flux vs. Wavelength



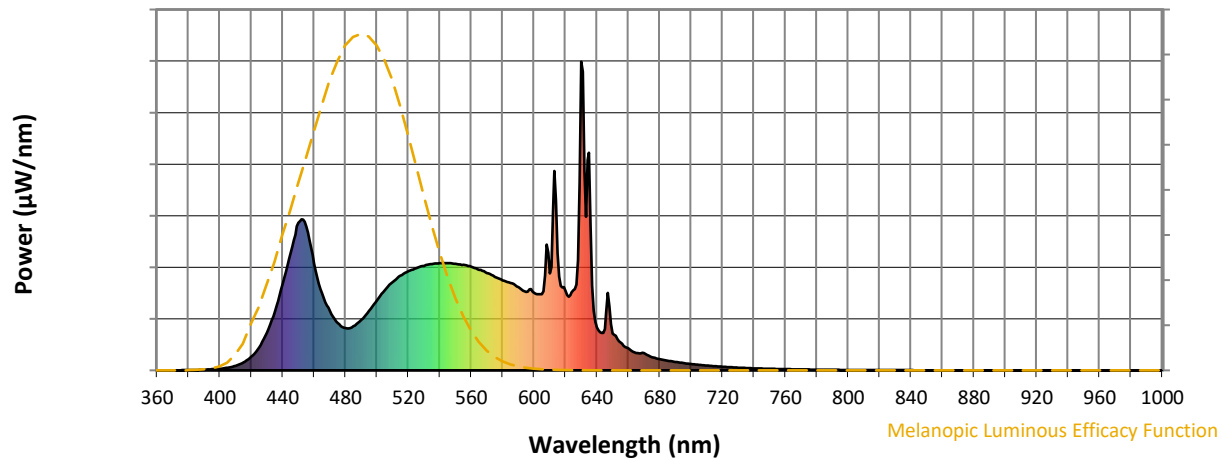
Scotopic Lumens: NR

S/P: 2

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	164	NR	620	257	NR	750	5	NR	880	0	NR
365	0	NR	495	193	NR	625	259	NR	755	5	NR	885	0	NR
370	0	NR	500	227	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	260	NR	635	705	NR	765	3	NR	895	0	NR
380	1	NR	510	286	NR	640	139	NR	770	3	NR	900	0	NR
385	2	NR	515	307	NR	645	134	NR	775	3	NR	905	0	NR
390	2	NR	520	321	NR	650	120	NR	780	2	NR	910	0	NR
395	4	NR	525	331	NR	655	90	NR	785	2	NR	915	0	NR
400	5	NR	530	338	NR	660	72	NR	790	2	NR	920	0	NR
405	9	NR	535	344	NR	665	56	NR	795	2	NR	925	0	NR
410	15	NR	540	347	NR	670	56	NR	800	1	NR	930	0	NR
415	26	NR	545	347	NR	675	43	NR	805	1	NR	935	0	NR
420	44	NR	550	345	NR	680	36	NR	810	1	NR	940	0	NR
425	75	NR	555	342	NR	685	32	NR	815	1	NR	945	0	NR
430	122	NR	560	336	NR	690	27	NR	820	1	NR	950	0	NR
435	191	NR	565	326	NR	695	24	NR	825	1	NR	955	0	NR
440	280	NR	570	315	NR	700	20	NR	830	1	NR	960	0	NR
445	380	NR	575	303	NR	705	18	NR	835	1	NR	965	0	NR
450	477	NR	580	292	NR	710	15	NR	840	1	NR	970	0	NR
455	466	NR	585	283	NR	715	14	NR	845	0	NR	975	0	NR
460	346	NR	590	269	NR	720	12	NR	850	0	NR	980	0	NR
465	250	NR	595	254	NR	725	10	NR	855	0	NR	985	0	NR
470	192	NR	600	251	NR	730	9	NR	860	0	NR	990	0	NR
475	153	NR	605	247	NR	735	8	NR	865	0	NR	995	0	NR
480	136	NR	610	314	NR	740	7	NR	870	0	NR	1000	0	NR
485	143	NR	615	380	NR	745	6	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 4.22

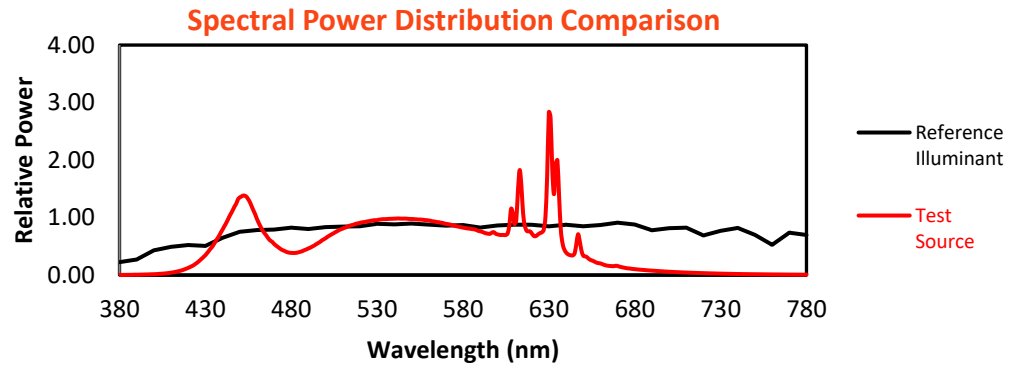
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	164	NR	620	257	NR	750	5	NR	880	0	NR
365	0	NR	495	193	NR	625	259	NR	755	5	NR	885	0	NR
370	0	NR	500	227	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	260	NR	635	705	NR	765	3	NR	895	0	NR
380	1	NR	510	286	NR	640	139	NR	770	3	NR	900	0	NR
385	2	NR	515	307	NR	645	134	NR	775	3	NR	905	0	NR
390	2	NR	520	321	NR	650	120	NR	780	2	NR	910	0	NR
395	4	NR	525	331	NR	655	90	NR	785	2	NR	915	0	NR
400	5	NR	530	338	NR	660	72	NR	790	2	NR	920	0	NR
405	9	NR	535	344	NR	665	56	NR	795	2	NR	925	0	NR
410	15	NR	540	347	NR	670	56	NR	800	1	NR	930	0	NR
415	26	NR	545	347	NR	675	43	NR	805	1	NR	935	0	NR
420	44	NR	550	345	NR	680	36	NR	810	1	NR	940	0	NR
425	75	NR	555	342	NR	685	32	NR	815	1	NR	945	0	NR
430	122	NR	560	336	NR	690	27	NR	820	1	NR	950	0	NR
435	191	NR	565	326	NR	695	24	NR	825	1	NR	955	0	NR
440	280	NR	570	315	NR	700	20	NR	830	1	NR	960	0	NR
445	380	NR	575	303	NR	705	18	NR	835	1	NR	965	0	NR
450	477	NR	580	292	NR	710	15	NR	840	1	NR	970	0	NR
455	466	NR	585	283	NR	715	14	NR	845	0	NR	975	0	NR
460	346	NR	590	269	NR	720	12	NR	850	0	NR	980	0	NR
465	250	NR	595	254	NR	725	10	NR	855	0	NR	985	0	NR
470	192	NR	600	251	NR	730	9	NR	860	0	NR	990	0	NR
475	153	NR	605	247	NR	735	8	NR	865	0	NR	995	0	NR
480	136	NR	610	314	NR	740	7	NR	870	0	NR	1000	0	NR
485	143	NR	615	380	NR	745	6	NR	875	0	NR			

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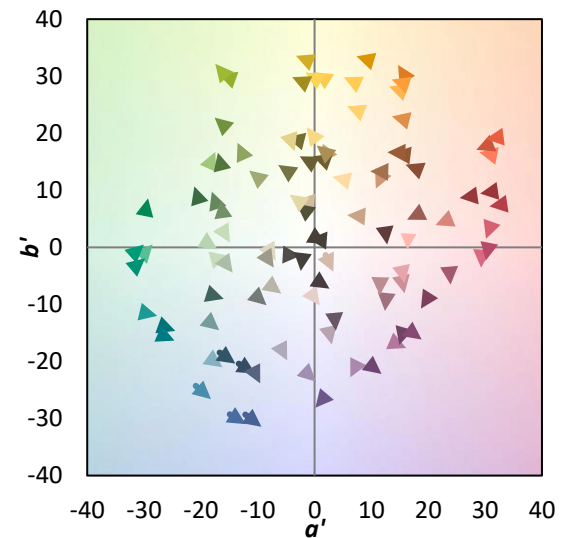
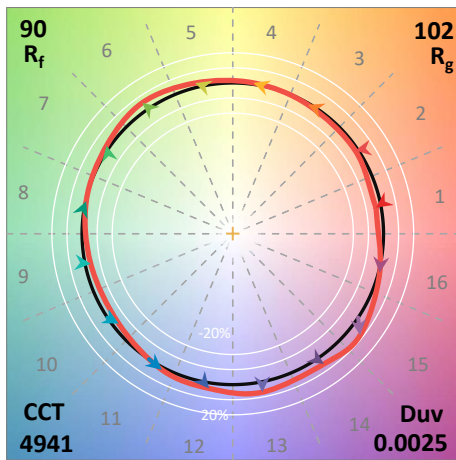
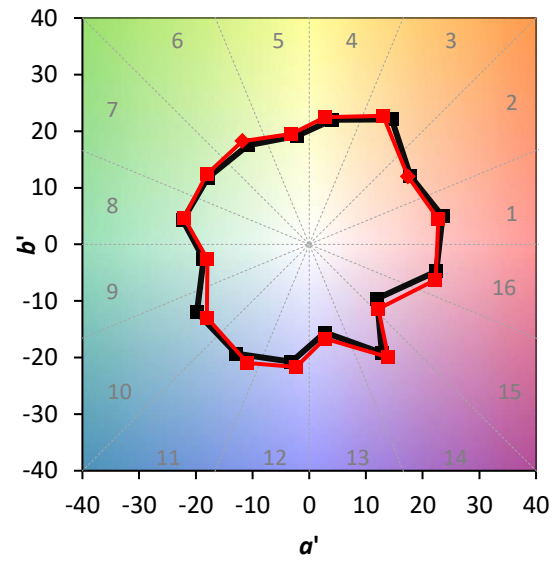
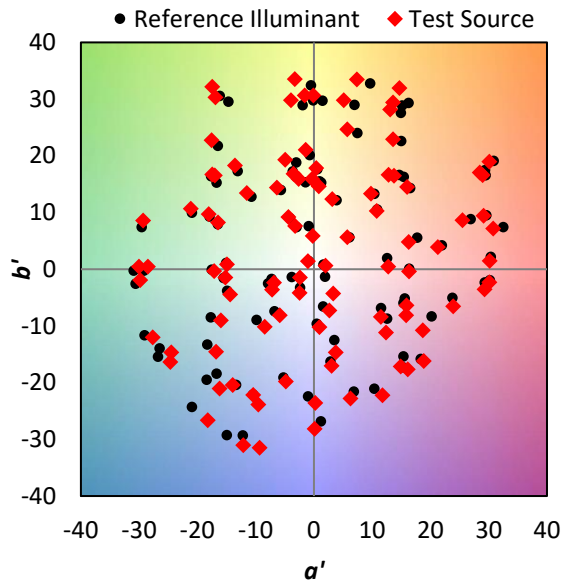
TM-30-18

Summary

$R_f = 90.3$
 $R_g = 102.5$
 $\text{CIE } R_a = 92.8$
 $R_9 = 82.3$

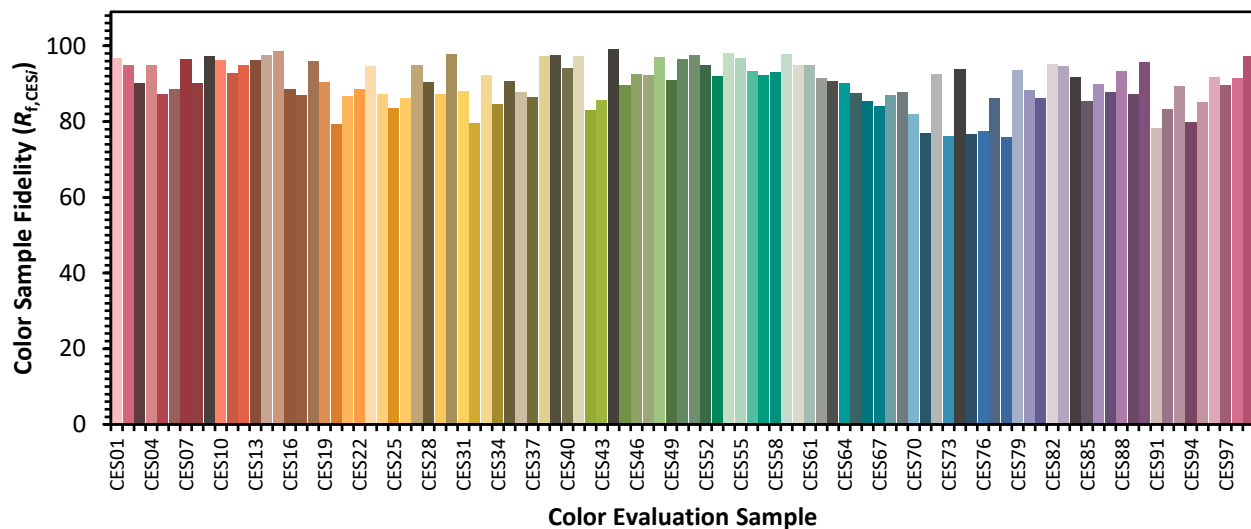


Color Vector Graphics

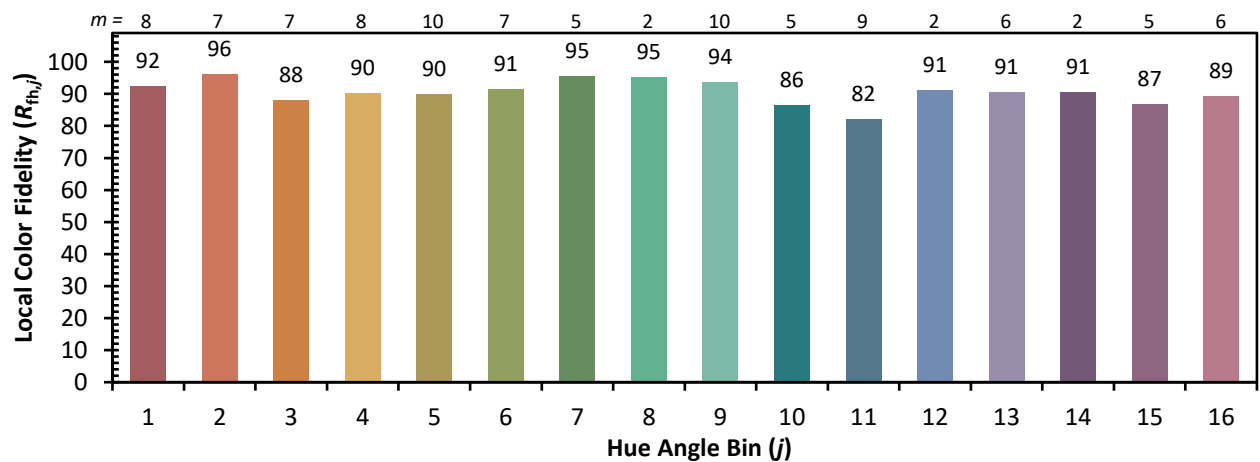
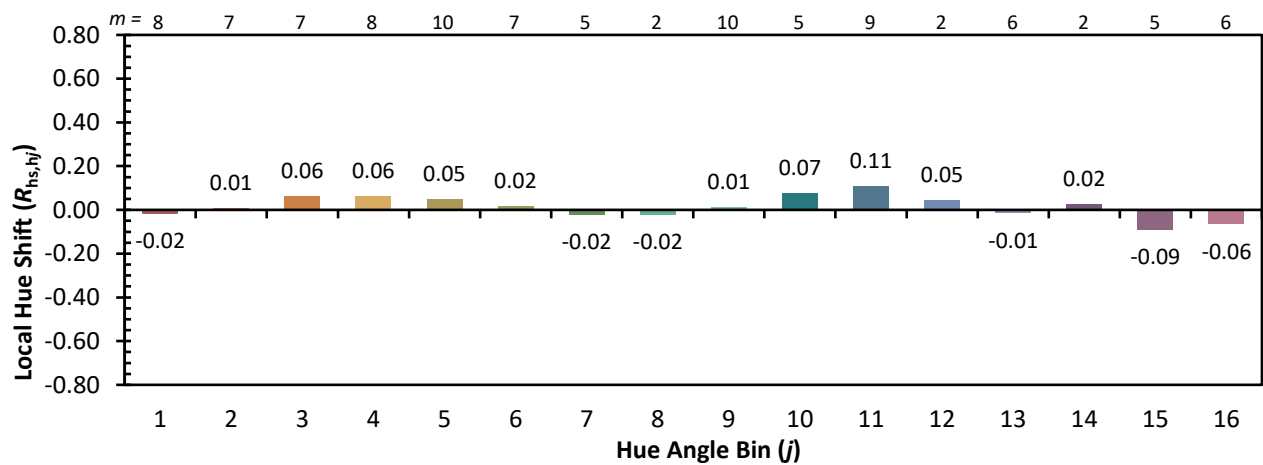
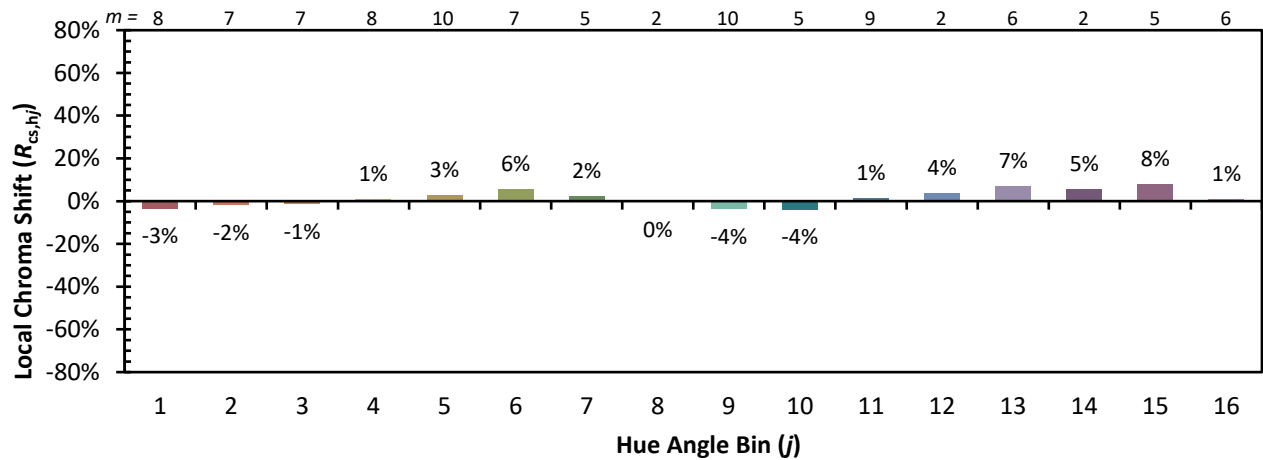


Individual Sample Fidelity Index ($R_{f,i}$)

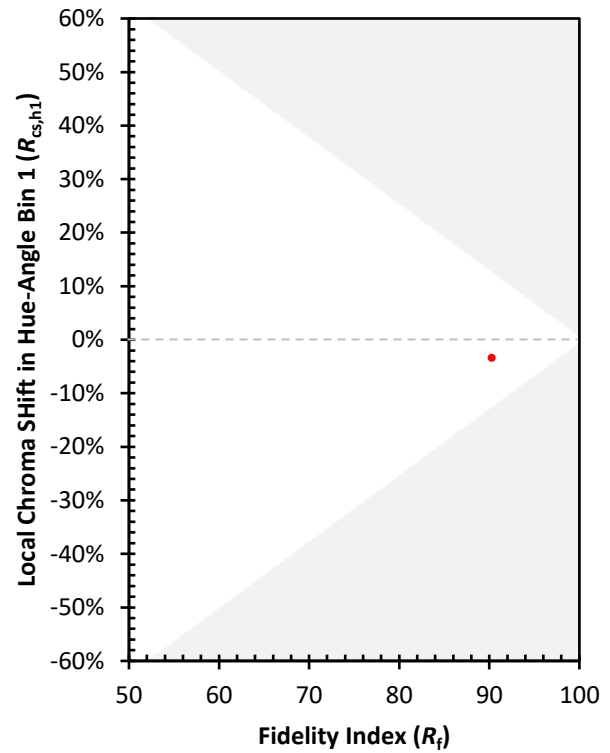
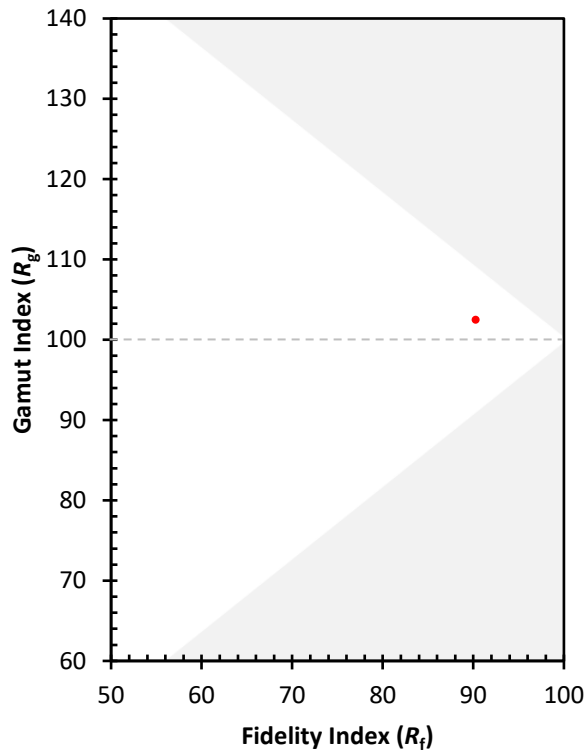
CES01 = 85	CES26 = 86	CES51 = 98	CES76 = 77
CES02 = 61	CES27 = 95	CES52 = 95	CES77 = 86
CES03 = 31	CES28 = 91	CES53 = 92	CES78 = 76
CES04 = 68	CES29 = 87	CES54 = 98	CES79 = 94
CES05 = 48	CES30 = 98	CES55 = 97	CES80 = 88
CES06 = 50	CES31 = 88	CES56 = 93	CES81 = 86
CES07 = 41	CES32 = 80	CES57 = 92	CES82 = 95
CES08 = 40	CES33 = 92	CES58 = 93	CES83 = 95
CES09 = 29	CES34 = 85	CES59 = 98	CES84 = 92
CES10 = 73	CES35 = 91	CES60 = 95	CES85 = 85
CES11 = 55	CES36 = 88	CES61 = 95	CES86 = 90
CES12 = 62	CES37 = 86	CES62 = 91	CES87 = 88
CES13 = 43	CES38 = 97	CES63 = 91	CES88 = 93
CES14 = 74	CES39 = 98	CES64 = 90	CES89 = 87
CES15 = 71	CES40 = 94	CES65 = 88	CES90 = 96
CES16 = 47	CES41 = 97	CES66 = 85	CES91 = 78
CES17 = 48	CES42 = 83	CES67 = 84	CES92 = 83
CES18 = 56	CES43 = 86	CES68 = 87	CES93 = 89
CES19 = 70	CES44 = 99	CES69 = 88	CES94 = 80
CES20 = 65	CES45 = 90	CES70 = 82	CES95 = 85
CES21 = 85	CES46 = 92	CES71 = 77	CES96 = 92
CES22 = 77	CES47 = 92	CES72 = 93	CES97 = 90
CES23 = 91	CES48 = 97	CES73 = 76	CES98 = 92
CES24 = 90	CES49 = 91	CES74 = 94	CES99 = 97
CES25 = 70	CES50 = 97	CES75 = 77	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)