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: P1259003

Luminaire Tested: P3A02R559050DE010 E3DLP1WMH

Issue Date: 1/30/2026

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:	P1259003
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2601-647-33)
Test Lab:	INNOVATION CENTER
Issue Date:	1/30/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	IRiS
Catalog Number:	P3A02R559050DE010 E3DLP1WMH
Description:	3in Adjustable LED luminaire with, R55 optic, 5000K CCT AND, 90CRI , E3DLP1WMH TRIM
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	194.0 lumens
Efficiency:	N/A
Efficacy:	53.9 lumens/watt
Spacing Criteria (0/90/45):	0.77 / 0.77 / 0.8
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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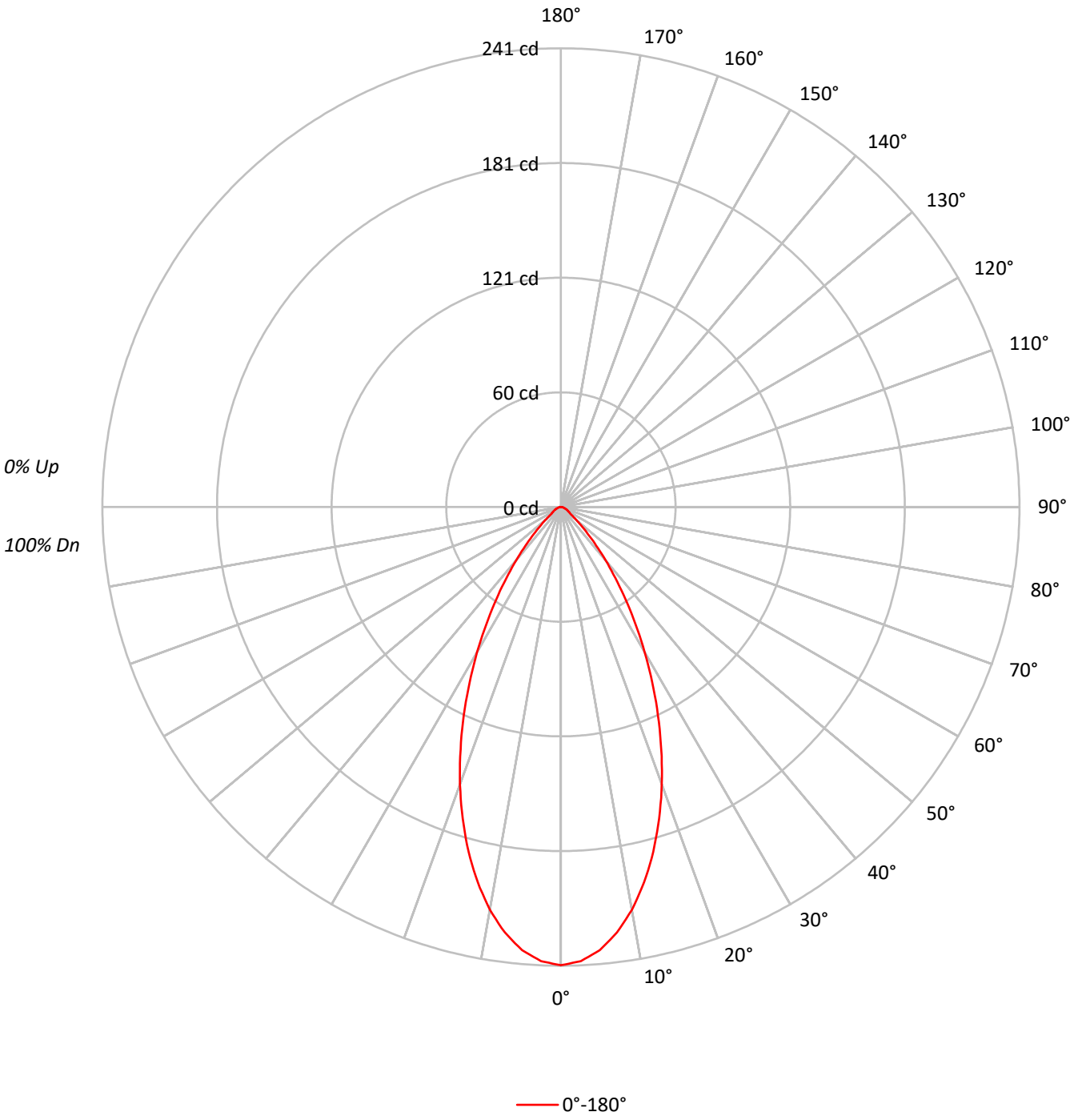
Scaled Data Report

TEST NUMBER: P1259003
CATALOG NUMBER: P3A02R559050DE010 E3DLP1WMH

Luminous Intensity Polar Plot



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Scaled Data Report

TEST NUMBER: P1259003
CATALOG NUMBER: P3A02R559050DE010 E3DLP1WMH

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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	79
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	72	68	64	63
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59
8	78	68	62	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55
9	74	64	58	54	73	63	58	54	62	57	53	62	57	53	61	56	53	52
10	70	60	54	51	69	60	54	50	59	54	50	58	54	50	58	53	50	49

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	52781
5°	51442
10°	47828
15°	42588
20°	36193
25°	29203
30°	22282
35°	15847
40°	10448
45°	6202
50°	3650
55°	2256
60°	1974
65°	1816
70°	1539
75°	1356
80°	1389
85°	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6202 cd/sqm

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TEST NUMBER: P1259003
CATALOG NUMBER: P3A02R559050DE010 E3DLP1WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.7	11.2
10°-20°	52.0	26.8
20°-30°	55.1	28.4
30°-40°	37.2	19.2
40°-50°	16.3	8.4
50°-60°	5.9	3.0
60°-70°	3.4	1.8
70°-80°	1.8	0.9
80°-90°	0.6	0.3
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°	128.8	66.4
0°-40°	166.0	85.6
0°-60°	188.2	97.0
0°-90°	194.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	194.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	241	
5°	234	22
15°	188	52
25°	121	55
35°	59	37
45°	20	16
55°	6	6
65°	4	3
75°	2	2
85°	0	1
90°	0	

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Scaled Data Report

TEST NUMBER: P1259003
CATALOG NUMBER: P3A02R559050DE010 E3DLP1WMH

CANDELA DISTRIBUTION (FULL):

	0°
0°	240.7
2.5°	238.8
5°	233.7
7.5°	225.5
10°	214.8
12.5°	202.0
15°	187.6
17.5°	171.6
20°	155.1
22.5°	137.8
25°	120.7
27.5°	103.9
30°	88.0
32.5°	72.8
35°	59.2
37.5°	46.9
40°	36.5
42.5°	27.5
45°	20.0
47.5°	14.7
50°	10.7
52.5°	7.5
55°	5.9
57.5°	5.3
60°	4.5
62.5°	4.0
65°	3.5
67.5°	2.9
70°	2.4
72.5°	2.1
75°	1.6
77.5°	1.3
80°	1.1
82.5°	0.8
85°	0.5
87.5°	0.3
90°	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: SP1-2504-409-15

Test Date: 05/14/2025

Luminaire Tested: LD3A10R129050D010 E3D1H

Data in this report applies to families of products including LD3A

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

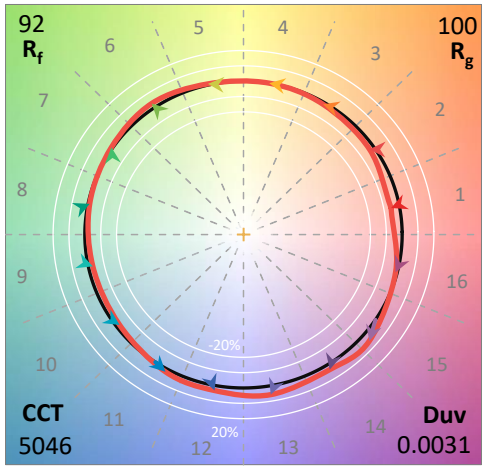
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2504-409-15
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:	**LD3A10R129050D010 E3D1H**
Description:	3in Adjustabled LED luminaire with, R12 optic, 5000K CCT AND, 90CRI LEDS, E3D1H TRIM

Spectral Parameters

CCT (K):	5046
CIE u':	0.2088
CIE v':	0.4872
Duv:	0.0031
CIE x:	0.3444
CIE y:	0.3571
CIE z:	0.2985
Peak Wavelength (nm):	451
Dominant Wavelength (nm):	569
Purity:	10.48811
Rf:	91.5
Rg:	100.4

CRI (Ra):	92.6
R1:	93.5
R2:	94.3
R3:	95.0
R4:	94.2
R5:	93.6
R6:	92.5
R7:	93.4
R8:	84.3
R9:	54.8
R10:	86.7
R11:	94.1
R12:	76.8
R13:	93.9
R14:	97.2
R15:	89.2



Test Conditions

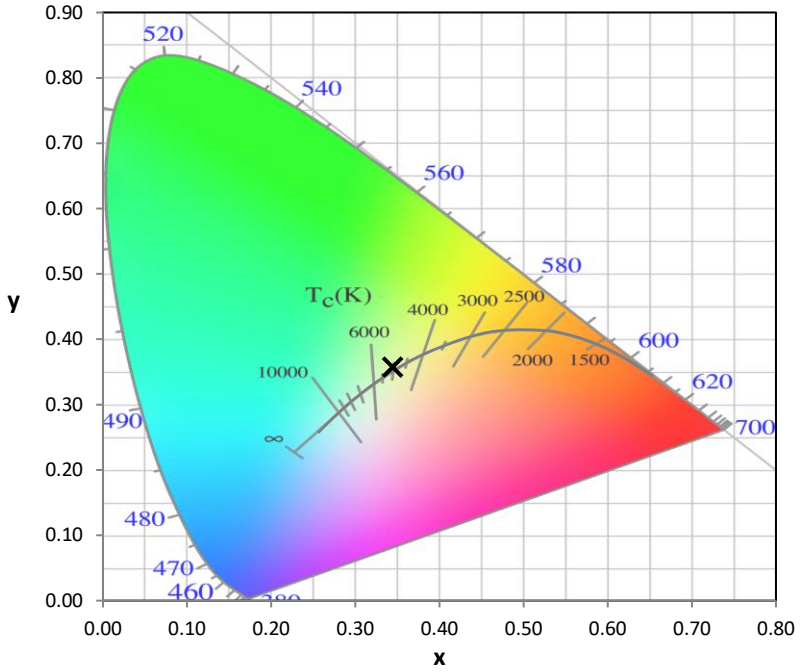
Stabilization Time:	48M
Operation Time:	1H 48M
Sphere Temperature (°C):	25.3

REPORT NUMBER: SP1-2504-409-15

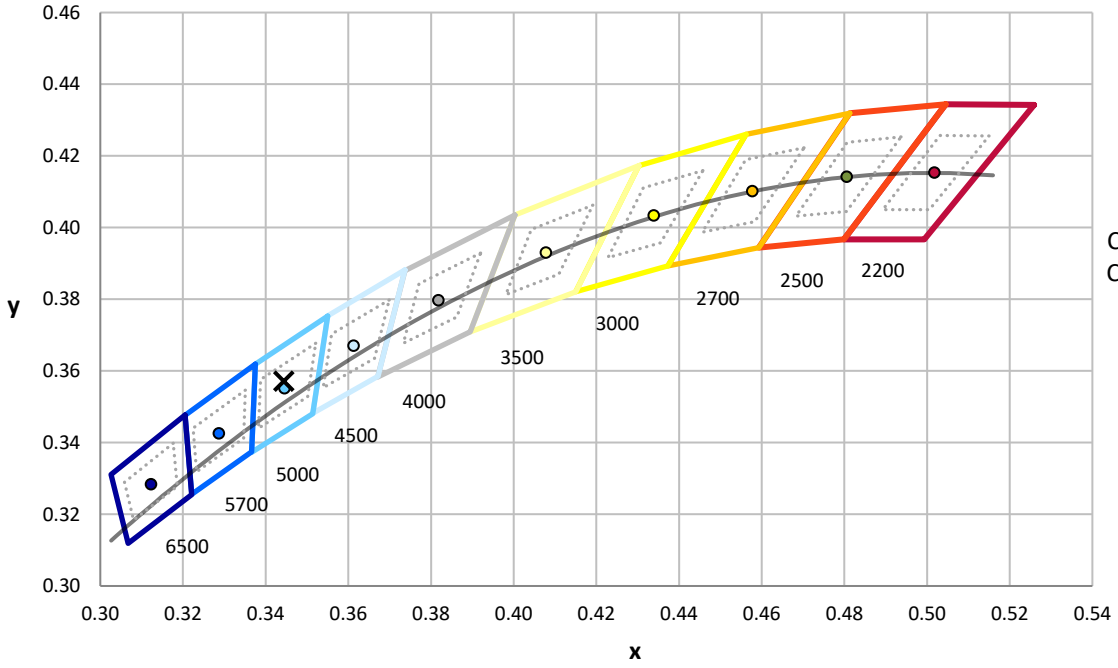
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2504-409-15

CIE 1931 Chromaticity Diagram



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



CCT = 5046K
CIE x = 0.3444
CIE y = 0.3571
Duv = 0.0031

Point lies inside the ANSI 5000K 4-step quadrangle

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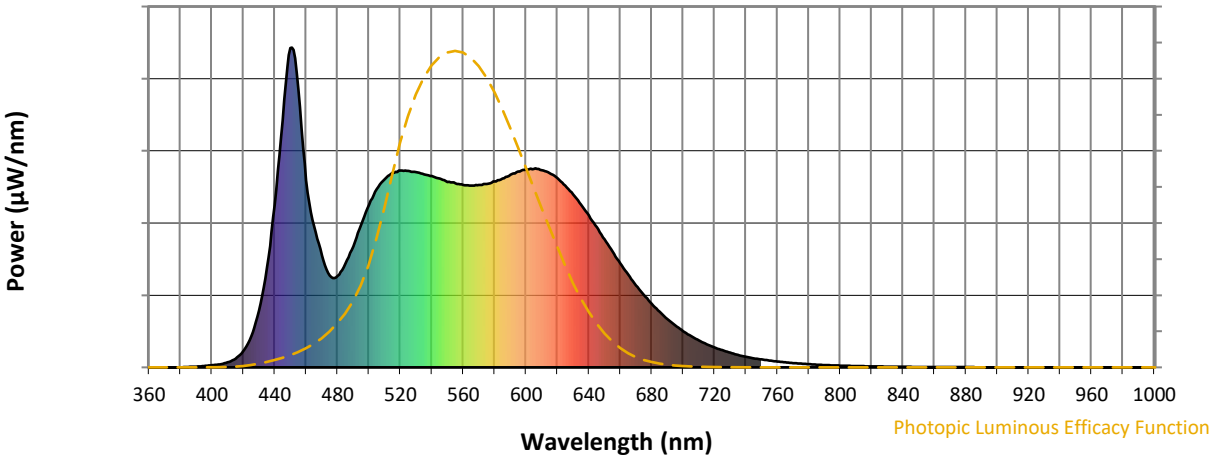
Photopic Flux vs. Wavelength

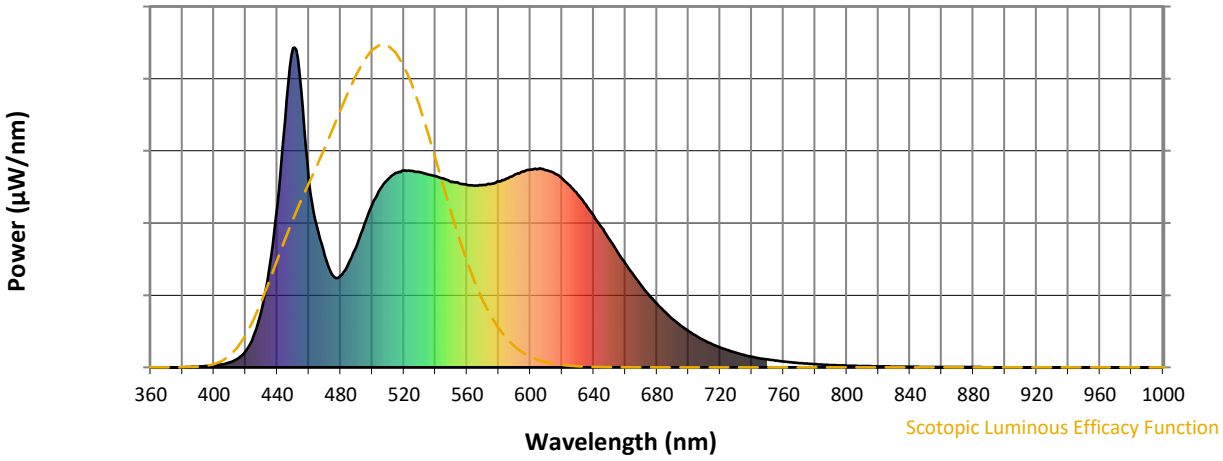


Photopic Lumens: NR

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	379	NR	620	592	NR	750	25	NR	880	1	NR
365	0	NR	495	445	NR	625	568	NR	755	21	NR	885	1	NR
370	0	NR	500	509	NR	630	540	NR	760	18	NR	890	0	NR
375	0	NR	505	557	NR	635	509	NR	765	16	NR	895	0	NR
380	0	NR	510	589	NR	640	476	NR	770	13	NR	900	0	NR
385	1	NR	515	608	NR	645	439	NR	775	12	NR	905	0	NR
390	2	NR	520	616	NR	650	400	NR	780	10	NR	910	0	NR
395	4	NR	525	614	NR	655	362	NR	785	8	NR	915	0	NR
400	7	NR	530	611	NR	660	325	NR	790	7	NR	920	0	NR
405	9	NR	535	604	NR	665	290	NR	795	6	NR	925	0	NR
410	16	NR	540	598	NR	670	257	NR	800	5	NR	930	0	NR
415	27	NR	545	591	NR	675	227	NR	805	5	NR	935	0	NR
420	51	NR	550	580	NR	680	199	NR	810	4	NR	940	0	NR
425	97	NR	555	575	NR	685	174	NR	815	4	NR	945	0	NR
430	177	NR	560	570	NR	690	152	NR	820	3	NR	950	0	NR
435	312	NR	565	569	NR	695	131	NR	825	3	NR	955	0	NR
440	507	NR	570	570	NR	700	113	NR	830	2	NR	960	0	NR
445	772	NR	575	573	NR	705	98	NR	835	2	NR	965	0	NR
450	998	NR	580	581	NR	710	84	NR	840	2	NR	970	0	NR
455	871	NR	585	590	NR	715	73	NR	845	2	NR	975	0	NR
460	586	NR	590	602	NR	720	63	NR	850	1	NR	980	0	NR
465	443	NR	595	612	NR	725	54	NR	855	1	NR	985	0	NR
470	350	NR	600	618	NR	730	46	NR	860	1	NR	990	0	NR
475	288	NR	605	620	NR	735	39	NR	865	1	NR	995	0	NR
480	286	NR	610	616	NR	740	33	NR	870	1	NR	1000	0	NR
485	325	NR	615	608	NR	745	28	NR	875	1	NR			

REPORT NUMBER: SP1-2504-409-15

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 2.07**

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	379	NR	620	592	NR	750	25	NR	880	1	NR
365	0	NR	495	445	NR	625	568	NR	755	21	NR	885	1	NR
370	0	NR	500	509	NR	630	540	NR	760	18	NR	890	0	NR
375	0	NR	505	557	NR	635	509	NR	765	16	NR	895	0	NR
380	0	NR	510	589	NR	640	476	NR	770	13	NR	900	0	NR
385	1	NR	515	608	NR	645	439	NR	775	12	NR	905	0	NR
390	2	NR	520	616	NR	650	400	NR	780	10	NR	910	0	NR
395	4	NR	525	614	NR	655	362	NR	785	8	NR	915	0	NR
400	7	NR	530	611	NR	660	325	NR	790	7	NR	920	0	NR
405	9	NR	535	604	NR	665	290	NR	795	6	NR	925	0	NR
410	16	NR	540	598	NR	670	257	NR	800	5	NR	930	0	NR
415	27	NR	545	591	NR	675	227	NR	805	5	NR	935	0	NR
420	51	NR	550	580	NR	680	199	NR	810	4	NR	940	0	NR
425	97	NR	555	575	NR	685	174	NR	815	4	NR	945	0	NR
430	177	NR	560	570	NR	690	152	NR	820	3	NR	950	0	NR
435	312	NR	565	569	NR	695	131	NR	825	3	NR	955	0	NR
440	507	NR	570	570	NR	700	113	NR	830	2	NR	960	0	NR
445	772	NR	575	573	NR	705	98	NR	835	2	NR	965	0	NR
450	998	NR	580	581	NR	710	84	NR	840	2	NR	970	0	NR
455	871	NR	585	590	NR	715	73	NR	845	2	NR	975	0	NR
460	586	NR	590	602	NR	720	63	NR	850	1	NR	980	0	NR
465	443	NR	595	612	NR	725	54	NR	855	1	NR	985	0	NR
470	350	NR	600	618	NR	730	46	NR	860	1	NR	990	0	NR
475	288	NR	605	620	NR	735	39	NR	865	1	NR	995	0	NR
480	286	NR	610	616	NR	740	33	NR	870	1	NR	1000	0	NR
485	325	NR	615	608	NR	745	28	NR	875	1	NR			

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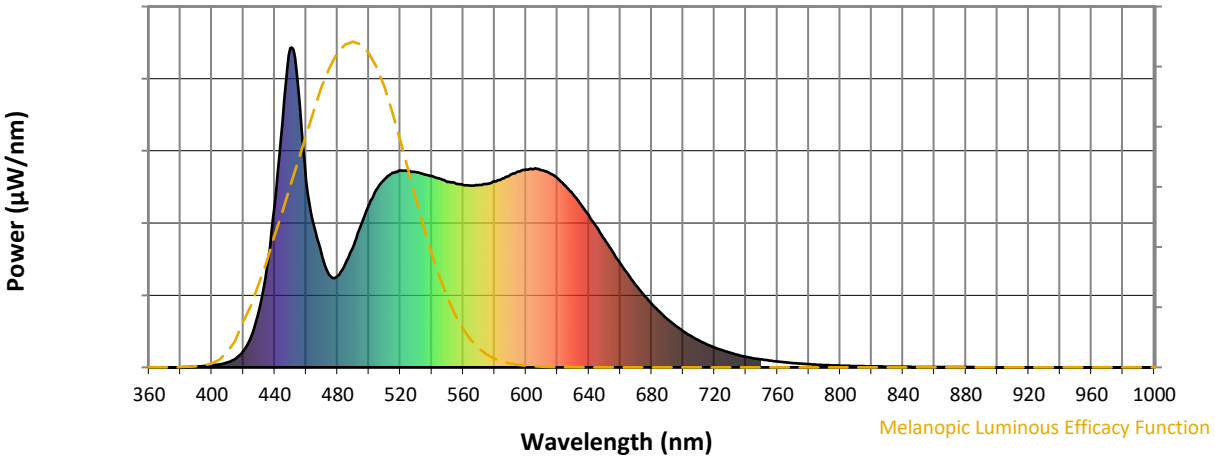
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 4.43**

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	379	NR	620	592	NR	750	25	NR	880	1	NR
365	0	NR	495	445	NR	625	568	NR	755	21	NR	885	1	NR
370	0	NR	500	509	NR	630	540	NR	760	18	NR	890	0	NR
375	0	NR	505	557	NR	635	509	NR	765	16	NR	895	0	NR
380	0	NR	510	589	NR	640	476	NR	770	13	NR	900	0	NR
385	1	NR	515	608	NR	645	439	NR	775	12	NR	905	0	NR
390	2	NR	520	616	NR	650	400	NR	780	10	NR	910	0	NR
395	4	NR	525	614	NR	655	362	NR	785	8	NR	915	0	NR
400	7	NR	530	611	NR	660	325	NR	790	7	NR	920	0	NR
405	9	NR	535	604	NR	665	290	NR	795	6	NR	925	0	NR
410	16	NR	540	598	NR	670	257	NR	800	5	NR	930	0	NR
415	27	NR	545	591	NR	675	227	NR	805	5	NR	935	0	NR
420	51	NR	550	580	NR	680	199	NR	810	4	NR	940	0	NR
425	97	NR	555	575	NR	685	174	NR	815	4	NR	945	0	NR
430	177	NR	560	570	NR	690	152	NR	820	3	NR	950	0	NR
435	312	NR	565	569	NR	695	131	NR	825	3	NR	955	0	NR
440	507	NR	570	570	NR	700	113	NR	830	2	NR	960	0	NR
445	772	NR	575	573	NR	705	98	NR	835	2	NR	965	0	NR
450	998	NR	580	581	NR	710	84	NR	840	2	NR	970	0	NR
455	871	NR	585	590	NR	715	73	NR	845	2	NR	975	0	NR
460	586	NR	590	602	NR	720	63	NR	850	1	NR	980	0	NR
465	443	NR	595	612	NR	725	54	NR	855	1	NR	985	0	NR
470	350	NR	600	618	NR	730	46	NR	860	1	NR	990	0	NR
475	288	NR	605	620	NR	735	39	NR	865	1	NR	995	0	NR
480	286	NR	610	616	NR	740	33	NR	870	1	NR	1000	0	NR
485	325	NR	615	608	NR	745	28	NR	875	1	NR			

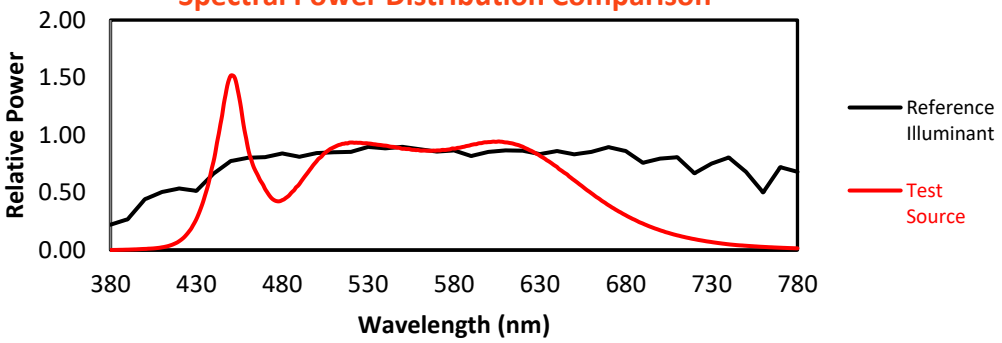
REPORT NUMBER: SP1-2504-409-15

TM-30-18

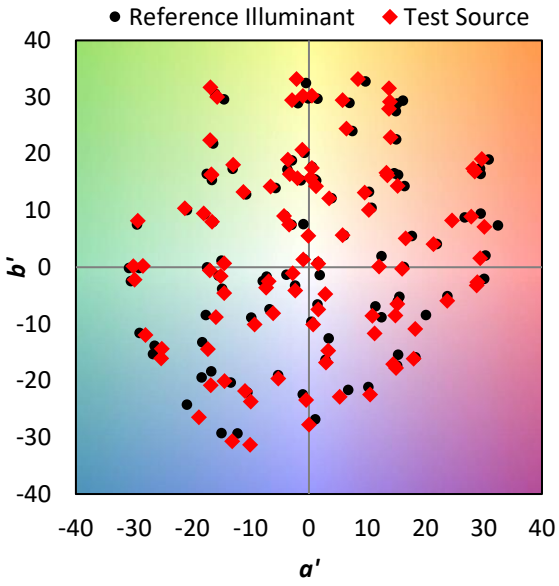
Summary

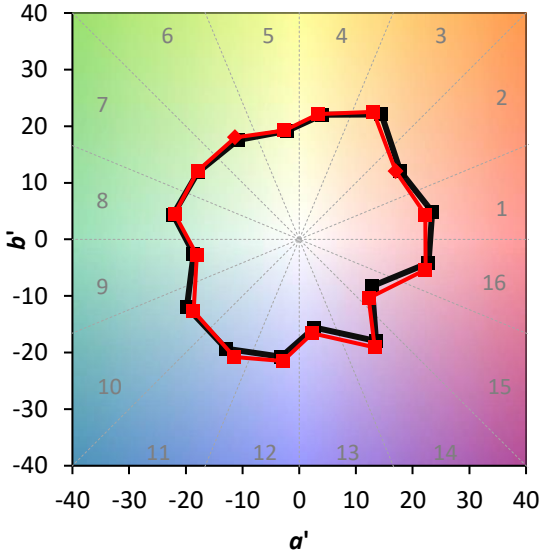
R_f = 91.5
R_g = 100.4
CIE R_a = 92.6
R_9 = 54.8

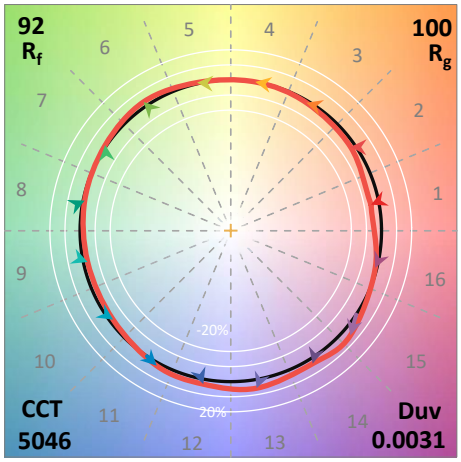
Spectral Power Distribution Comparison

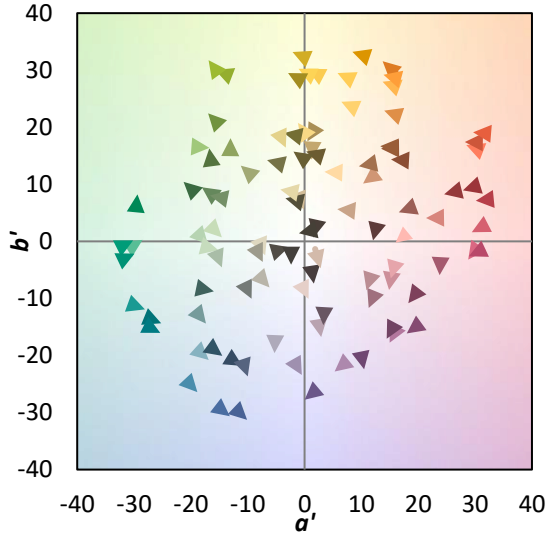


Color Vector Graphics









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TM-30-18

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

CES01 = 85	CES26 = 91	CES51 = 99	CES76 = 84
CES02 = 60	CES27 = 94	CES52 = 96	CES77 = 88
CES03 = 31	CES28 = 95	CES53 = 95	CES78 = 80
CES04 = 68	CES29 = 92	CES54 = 96	CES79 = 96
CES05 = 47	CES30 = 99	CES55 = 95	CES80 = 92
CES06 = 50	CES31 = 93	CES56 = 95	CES81 = 89
CES07 = 40	CES32 = 88	CES57 = 95	CES82 = 96
CES08 = 40	CES33 = 95	CES58 = 95	CES83 = 97
CES09 = 29	CES34 = 92	CES59 = 98	CES84 = 94
CES10 = 73	CES35 = 95	CES60 = 94	CES85 = 85
CES11 = 56	CES36 = 85	CES61 = 94	CES86 = 87
CES12 = 62	CES37 = 95	CES62 = 91	CES87 = 91
CES13 = 42	CES38 = 94	CES63 = 93	CES88 = 96
CES14 = 74	CES39 = 97	CES64 = 93	CES89 = 87
CES15 = 71	CES40 = 94	CES65 = 88	CES90 = 97
CES16 = 46	CES41 = 99	CES66 = 90	CES91 = 76
CES17 = 48	CES42 = 91	CES67 = 89	CES92 = 79
CES18 = 56	CES43 = 90	CES68 = 90	CES93 = 88
CES19 = 70	CES44 = 99	CES69 = 91	CES94 = 79
CES20 = 65	CES45 = 94	CES70 = 86	CES95 = 83
CES21 = 84	CES46 = 95	CES71 = 81	CES96 = 91
CES22 = 77	CES47 = 95	CES72 = 94	CES97 = 95
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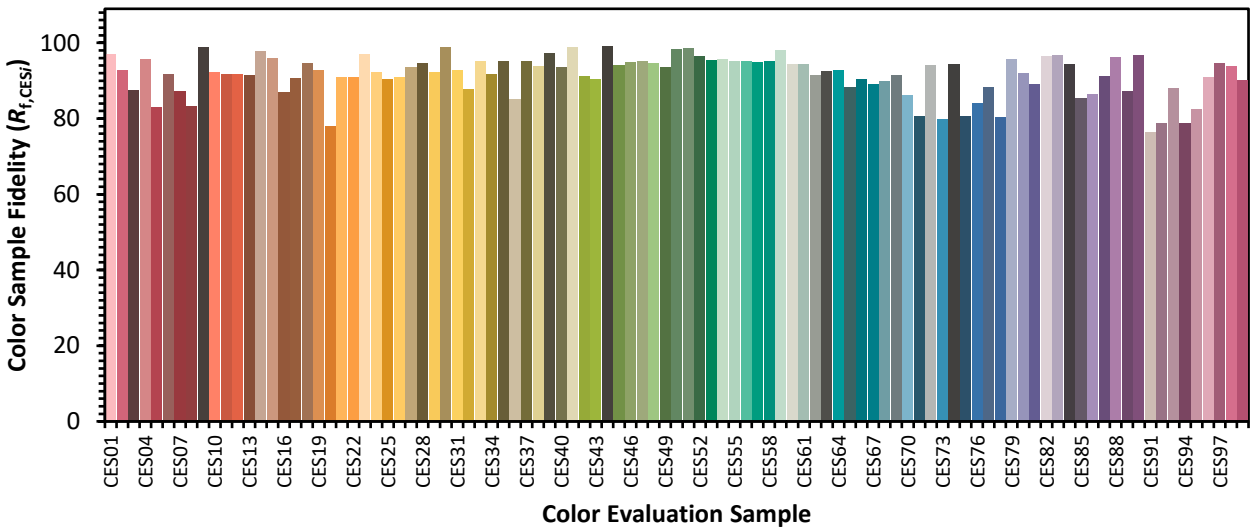

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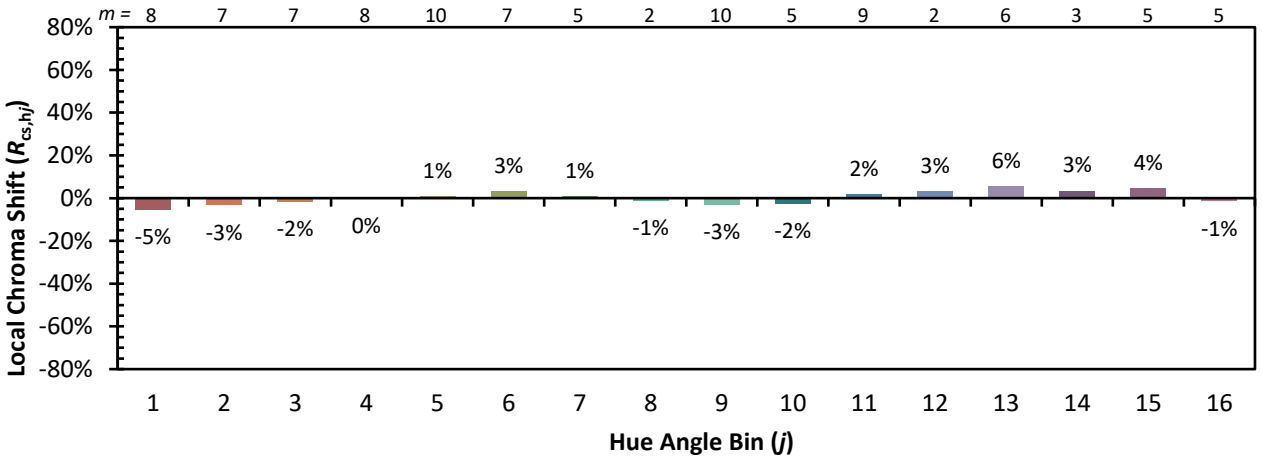
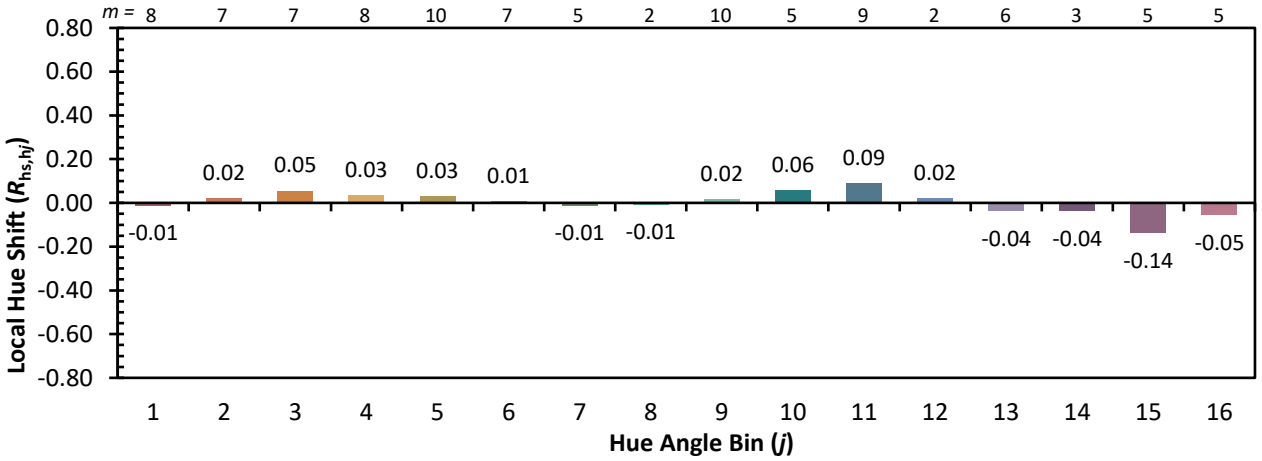
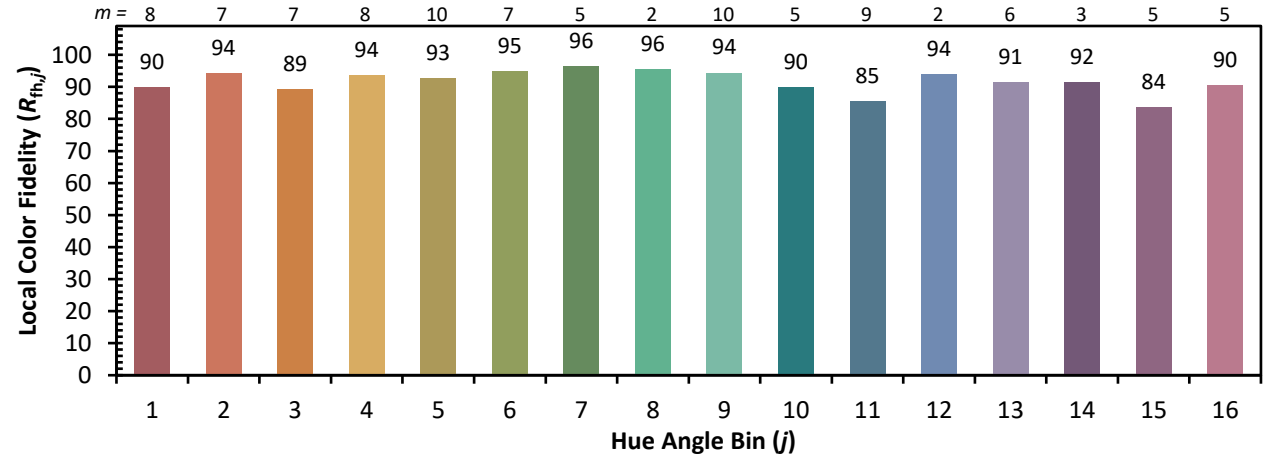
Color Rendition by Hue-Angle Bin







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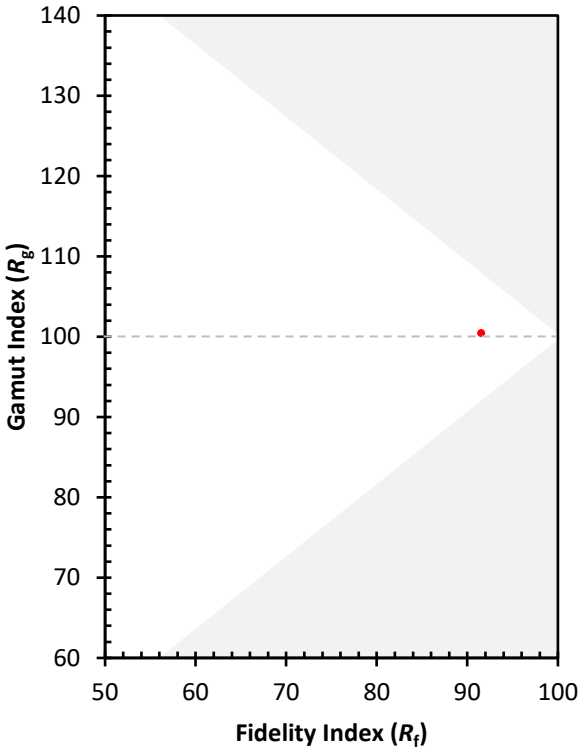
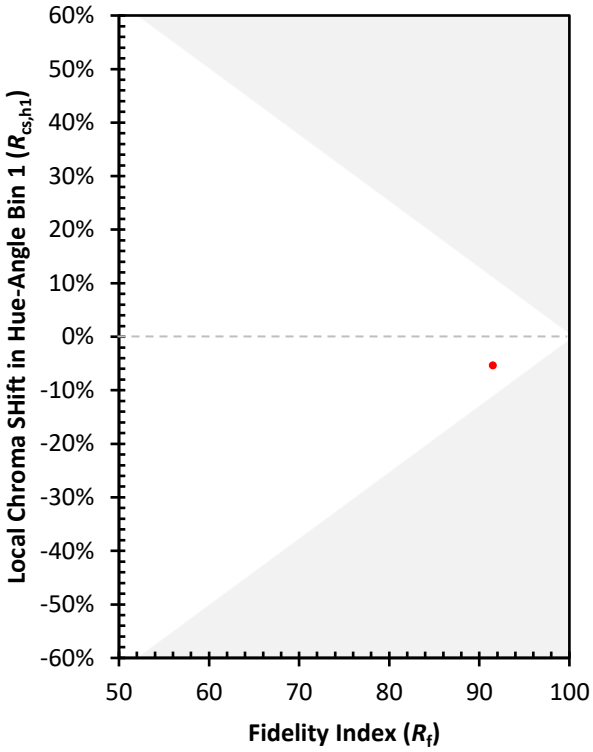
Measure Comparisons





(END OF REPORT)