

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: iO LED

Report Number: P861222

Luminaire Tested: CS-SL-9SCT-120-ID-UNV-W-SA-STD-1F-(High-4000K)

Issue Date: 8/14/2024

Test Information

Test Method: LM-79-2019
Report Number: P861222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-259-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/14/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: iO LED
Catalog Number: CS-SL-9SCT-120-ID-UNV-W-SA-STD-1F-(High-4000K)
Description: iO CovSelect LED LINEAR LUMINAIRE, 1 FOOT, LOW OUTPUT
ADJUSTED TO 4000K
Light Source: 4000 CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 724.0 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.08' x L: 1' x H: 0.02')
CIE Type: Direct

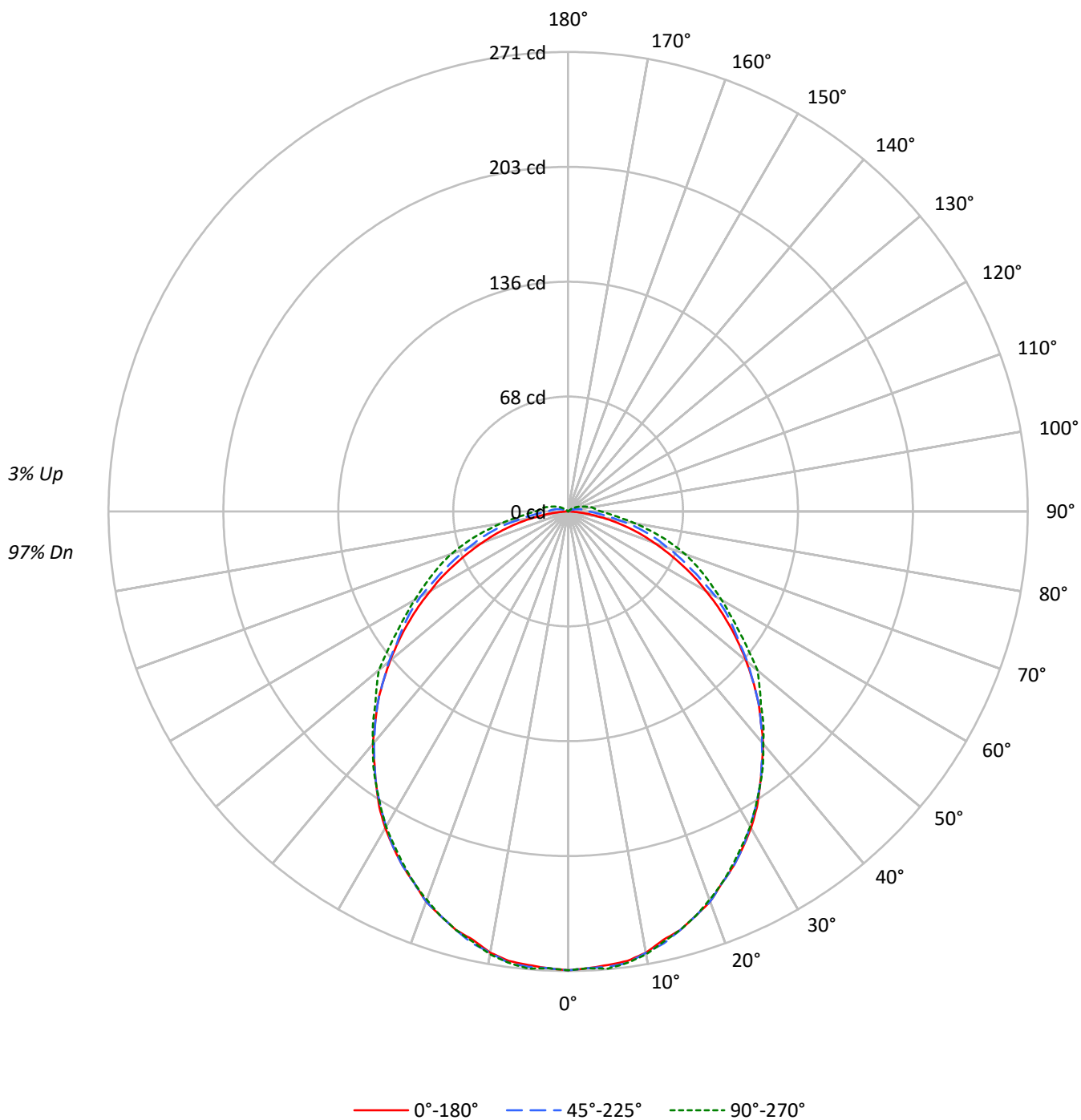
Input Watts (W): 6.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9754
Total Harmonic Distortion (THDi): 0.0539
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P861222

CATALOG NUMBER: CS-SL-9SCT-120-ID-UNV-W-SA-STD-1F-(High-4000K)

Luminous Intensity Polar Plot



TEST NUMBER: P861222

CATALOG NUMBER: CS-SL-9SCT-120-ID-UNV-W-SA-STD-1F-(High-4000K)

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		50	30	10
RCR																				
0	118	118	118	118	115	115	115	115		110	110	110		104	104	104		100	100	100
1	108	103	99	95	105	100	97	93		96	92	89		91	89	86		87	85	83
2	98	90	83	77	95	88	82	76		84	79	74		80	76	72		77	73	70
3	90	79	71	65	87	77	70	64		74	68	62		71	65	61		68	63	60
4	82	70	62	55	80	69	61	54		66	59	53		63	57	52		61	56	51
5	76	63	54	47	73	62	53	47		59	52	46		57	51	46		55	49	45
6	70	57	48	42	68	56	47	41		54	46	41		52	45	40		50	44	40
7	65	52	43	37	63	51	42	37		49	41	36		47	41	36		46	40	35
8	61	47	39	33	59	46	38	33		45	38	32		43	37	32		42	36	32
9	57	43	35	30	55	43	35	30		41	34	29		40	34	29		39	33	29
10	53	40	32	27	52	39	32	27		38	31	27		37	31	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	34953	34953	34953
5°	34751	34381	34335
10°	34526	33521	33315
15°	33977	32499	32021
20°	33396	31457	30704
25°	32563	30184	29319
30°	31775	28821	27970
35°	30664	27433	26476
40°	29664	25844	24949
45°	28362	24300	23484
50°	26843	22578	22542
55°	25237	20972	20395
60°	23388	19457	18857
65°	21445	17289	17589
70°	19254	15466	16411
75°	16994	13796	14484
80°	12906	11161	12275
85°	7780	9016	10373

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 28362 cd/sqm

TEST NUMBER: P861222

CATALOG NUMBER: CS-SL-9SCT-120-ID-UNV-W-SA-STD-1F-(High-4000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.6	3.5
10°-20°	71.9	9.9
20°-30°	106.0	14.6
30°-40°	123.1	17.0
40°-50°	122.4	16.9
50°-60°	106.3	14.7
60°-70°	79.8	11.0
70°-80°	49.3	6.8
80°-90°	20.7	2.9
90°-100°	9.6	1.3
100°-110°	5.7	0.8
110°-120°	2.7	0.4
120°-130°	0.8	0.1
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°	203.4	28.1
0°-40°	326.6	45.1
0°-60°	555.3	76.7
0°-90°	705.1	97.4
90°-120°	18.0	2.5
90°-150°	18.9	2.6
90°-180°	19.0	2.6
0°-180°	724.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	271	271	271	271	271	
5°	268	268	270	270	271	26
15°	256	254	256	256	256	72
25°	231	230	231	230	230	106
35°	197	196	197	197	197	123
45°	158	156	158	160	161	122
55°	115	114	119	123	123	103
65°	73	74	80	86	88	73
75°	37	39	47	54	56	39
85°	6	11	19	25	27	8
90°	0	4	12	17	19	0
95°	0	3	10	14	16	0
105°	0	1	5	10	11	0
115°	0	0	2	5	6	0
125°	0	0	0	2	3	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

TEST NUMBER: P861222

CATALOG NUMBER: CS-SL-9SCT-120-ID-UNV-W-SA-STD-1F-(High-4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	270.6	270.6	270.6	270.6	270.6
2.5°	269.6	269.6	269.6	269.6	269.6
5°	268.5	268.5	269.6	269.6	270.6
7.5°	267.4	266.3	268.5	268.5	268.5
10°	264.2	263.1	264.2	264.2	265.2
12.5°	258.8	257.7	260.9	259.9	259.9
15°	255.5	254.5	255.5	255.5	255.5
17.5°	250.1	249.1	250.1	250.1	250.1
20°	244.8	243.7	244.8	243.7	243.7
22.5°	237.2	237.2	237.2	237.2	237.2
25°	230.7	229.7	230.7	229.7	229.7
27.5°	223.2	222.1	223.2	222.1	222.1
30°	215.6	214.6	214.6	214.6	214.6
32.5°	207.0	205.9	205.9	205.9	205.9
35°	197.3	196.2	197.3	197.3	197.3
37.5°	187.6	186.5	187.6	187.6	188.7
40°	179.0	176.8	177.9	179.0	179.0
42.5°	168.2	167.1	168.2	169.3	170.4
45°	158.5	156.3	158.5	159.6	160.7
47.5°	147.7	145.6	147.7	151.0	153.1
50°	136.9	135.9	138.0	142.3	145.6
52.5°	126.2	125.1	127.2	133.7	133.7
55°	115.4	114.3	118.6	122.9	122.9
57.5°	104.6	103.5	110.0	112.1	113.2
60°	93.8	93.8	100.3	102.4	104.6
62.5°	84.1	84.1	89.5	93.8	96.0
65°	73.3	74.4	79.8	86.3	88.4
67.5°	63.6	64.7	71.2	78.7	80.9
70°	53.9	56.1	62.5	71.2	73.3
72.5°	45.3	47.4	55.0	62.5	64.7
75°	36.7	38.8	47.4	53.9	56.1
77.5°	28.0	30.2	39.9	45.3	47.4
80°	19.4	23.7	31.3	37.7	39.9
82.5°	12.9	16.2	24.8	31.3	32.3
85°	6.5	10.8	19.4	24.8	27.0
87.5°	2.2	6.5	15.1	20.5	22.6
90°	0.0	4.3	11.9	17.3	19.4
92.5°	0.0	3.2	10.8	16.2	17.3
95°	0.0	3.2	9.7	14.0	16.2
97.5°	0.0	2.2	8.6	12.9	15.1
100°	0.0	2.2	7.5	11.9	14.0
102.5°	0.0	1.1	6.5	10.8	11.9
105°	0.0	1.1	5.4	9.7	10.8
107.5°	0.0	0.0	4.3	8.6	9.7
110°	0.0	0.0	3.2	7.5	8.6

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CATALOG NUMBER: CS-SL-9SCT-120-ID-UNV-W-SA-STD-1F-(High-4000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	3.2	6.5	7.5
115°	0.0	0.0	2.2	5.4	6.5
117.5°	0.0	0.0	1.1	4.3	5.4
120°	0.0	0.0	1.1	3.2	4.3
122.5°	0.0	0.0	1.1	2.2	3.2
125°	0.0	0.0	0.0	2.2	3.2
127.5°	0.0	0.0	0.0	1.1	2.2
130°	0.0	0.0	0.0	1.1	1.1
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	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

iO LED

Report Number: SP1-2312-259-5

Test Date: 02/01/2024

Luminaire Tested: CS-SL-8SCT-120-ID-UNV-W-SA-STD-1F (LOW-4000K)

Data in this report applies to families of CS-SL-8SCT products

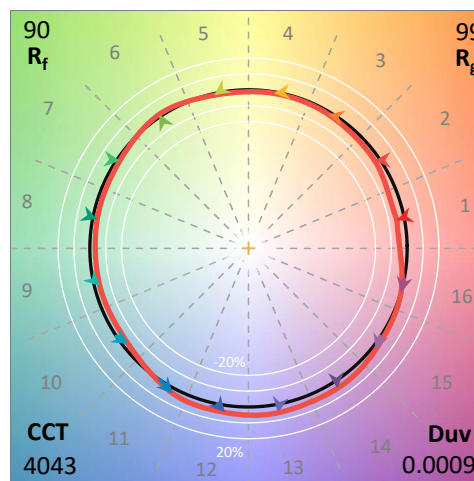
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2312-259-5
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 02/08/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: iO LED
 Catalog Number: **CS-SL-9SCT-120-ID-UNV-W-SA-STD-1F (LOW-4000K)**
 Description: IO LED COVSELECT ARCHITECTURAL COVE

Spectral Parameters

CCT (K): 4043
 CIE u': 0.2238
 CIE v': 0.5019
 Duv: 0.0009
 CIE x: 0.3791
 CIE y: 0.3779
 CIE z: 0.2429
 Peak Wavelength (nm): 450
 Dominant Wavelength (nm): 578
 Purity: 27.3
 Rf: 90.4
 Rg: 99.3

CRI (Ra): 91.9
 R1: 92.0
 R2: 93.8
 R3: 94.1
 R4: 92.4
 R5: 91.0
 R6: 90.4
 R7: 94.7
 R8: 86.3
 R9: 63.5
 R10: 84.4
 R11: 92.1
 R12: 69.5
 R13: 92.4
 R14: 96.4



Test Conditions

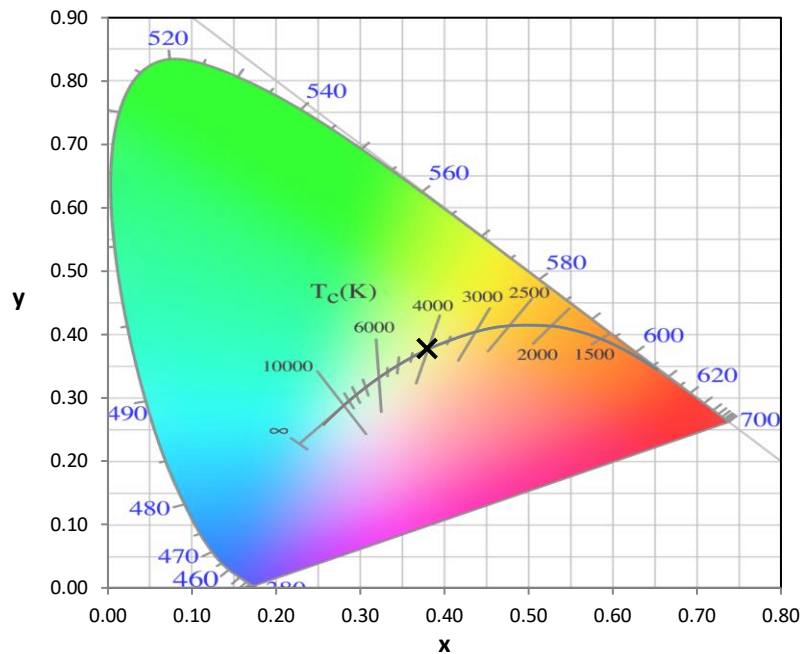
Stabilization Time: 12M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 25.4/24%
 Sphere Temperature (°C): 25.1

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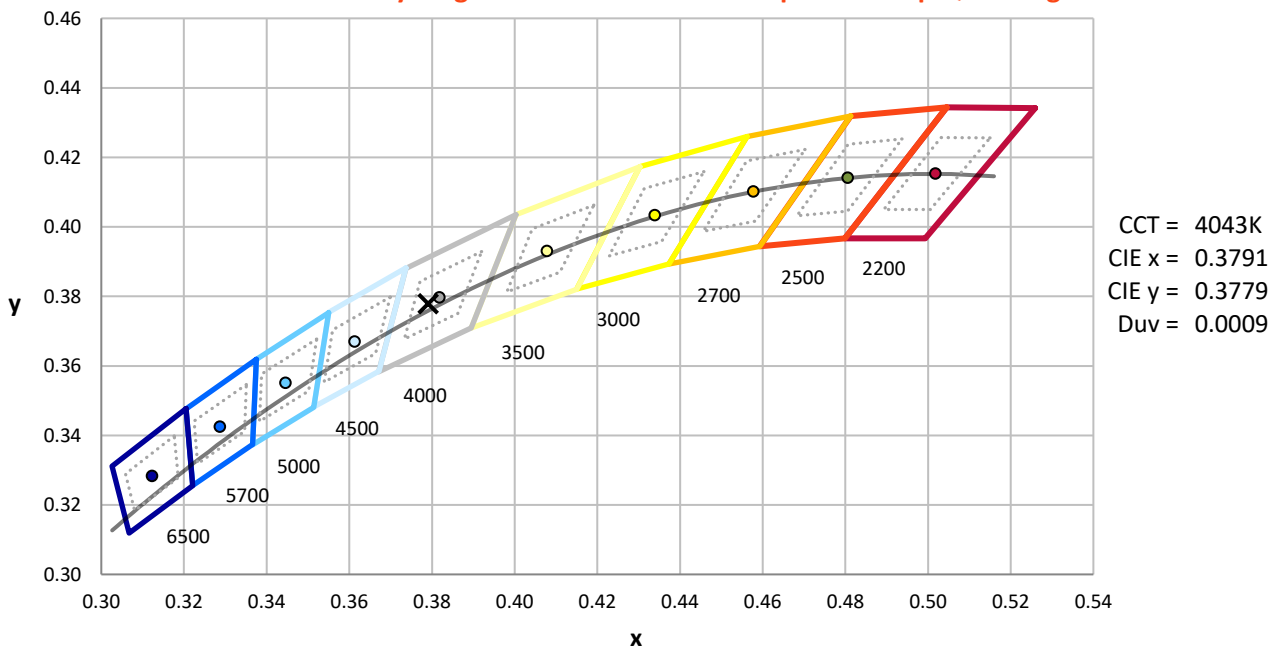
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	8/9/2023	2/9/2024
Power Meter	XITRON 2801 IN0071	10/23/2023	10/23/2024
AC Power Source	CHROMA 61603 IN0063	10/24/2023	10/24/2024
DC Power Source	AGILENT E3634A IN0208	10/24/2023	10/24/2024
Sphere Thermometer	ONSET IN0085	10/24/2023	10/24/2024
Room Thermometer	ONSET IN0046	10/24/2023	10/24/2024

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CIE 1931 Chromaticity Diagram



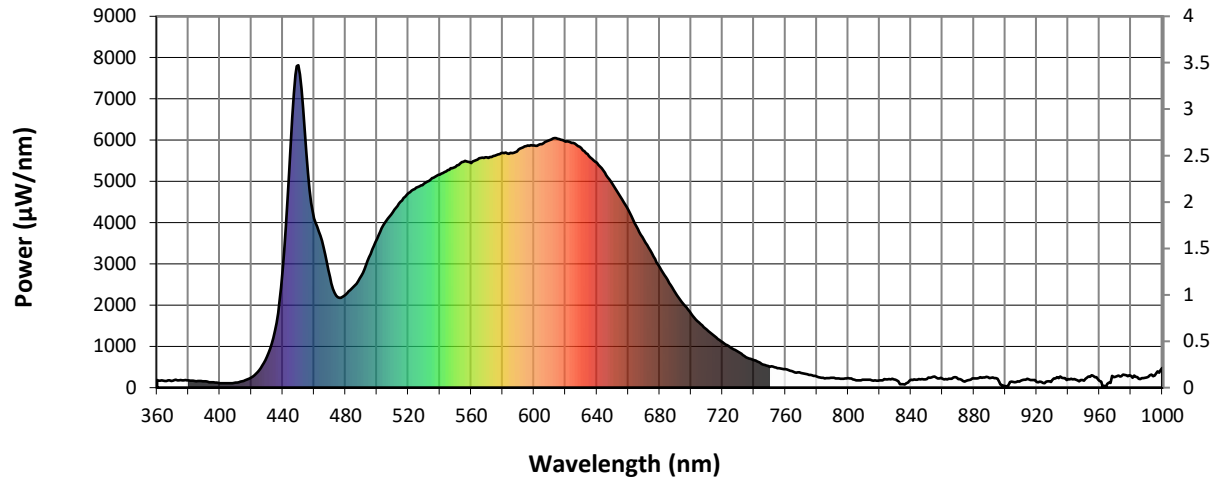
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

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Photopic Flux vs. Wavelength

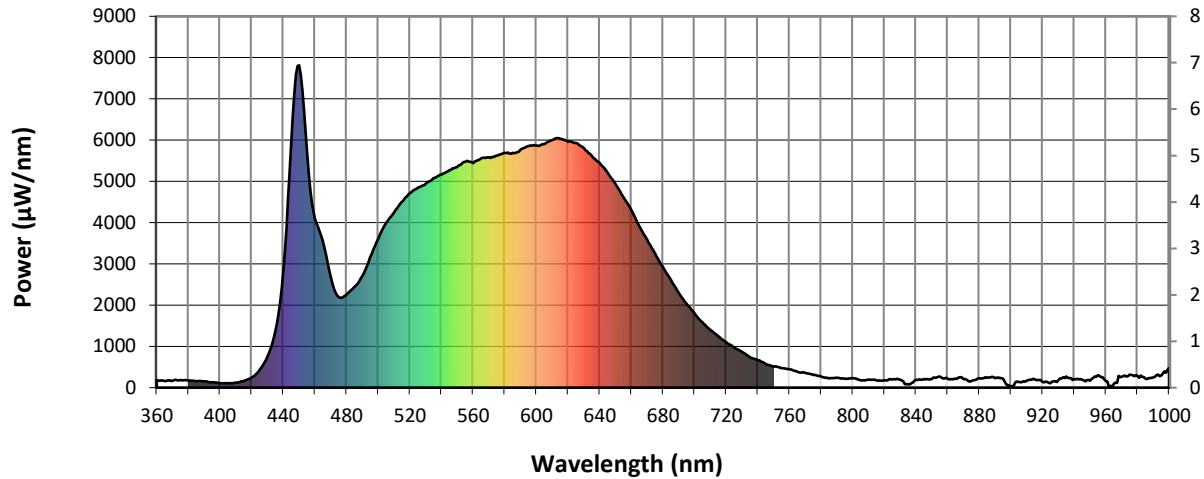


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λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)
360	186	NR	490	2712	NR	620	5962	NR	750	506	NR	880	220	NR
365	164	NR	495	3160	NR	625	5931	NR	755	475	NR	885	241	NR
370	172	NR	500	3608	NR	630	5805	NR	760	448	NR	890	235	NR
375	183	NR	505	3994	NR	635	5611	NR	765	384	NR	895	217	NR
380	176	NR	510	4248	NR	640	5451	NR	770	353	NR	900	39	NR
385	156	NR	515	4503	NR	645	5207	NR	775	311	NR	905	141	NR
390	153	NR	520	4710	NR	650	4930	NR	780	269	NR	910	171	NR
395	132	NR	525	4842	NR	655	4621	NR	785	225	NR	915	203	NR
400	109	NR	530	4943	NR	660	4314	NR	790	242	NR	920	136	NR
405	104	NR	535	5075	NR	665	3913	NR	795	214	NR	925	111	NR
410	120	NR	540	5166	NR	670	3578	NR	800	230	NR	930	182	NR
415	163	NR	545	5271	NR	675	3254	NR	805	180	NR	935	266	NR
420	248	NR	550	5351	NR	680	2923	NR	810	190	NR	940	206	NR
425	426	NR	555	5473	NR	685	2609	NR	815	179	NR	945	189	NR
430	751	NR	560	5446	NR	690	2301	NR	820	174	NR	950	170	NR
435	1375	NR	565	5562	NR	695	2028	NR	825	202	NR	955	299	NR
440	2849	NR	570	5585	NR	700	1795	NR	830	193	NR	960	164	NR
445	5885	NR	575	5621	NR	705	1580	NR	835	81	NR	965	90	NR
450	7814	NR	580	5694	NR	710	1400	NR	840	190	NR	970	259	NR
455	5689	NR	585	5691	NR	715	1245	NR	845	206	NR	975	320	NR
460	4100	NR	590	5769	NR	720	1098	NR	850	210	NR	980	283	NR
465	3561	NR	595	5854	NR	725	978	NR	855	271	NR	985	216	NR
470	2685	NR	600	5869	NR	730	865	NR	860	216	NR	990	245	NR
475	2192	NR	605	5900	NR	735	739	NR	865	215	NR	995	291	NR
480	2259	NR	610	6000	NR	740	663	NR	870	210	NR	1000	480	NR
485	2441	NR	615	6029	NR	745	569	NR	875	159	NR			

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Scotopic Flux vs. Wavelength



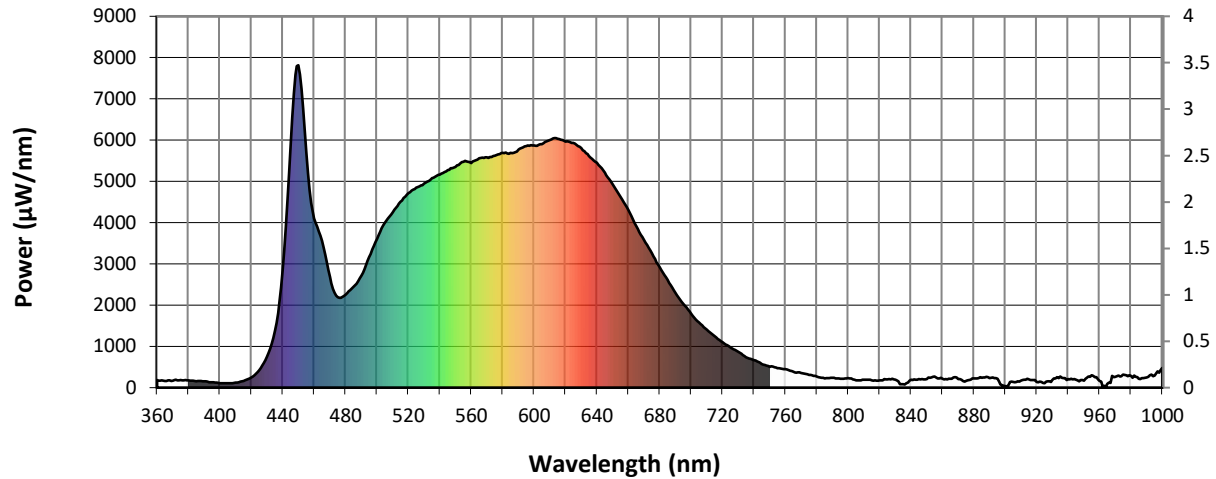
Scotopic Lumens: 672.5

S/P: 1.78

λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)
360	186	NR	490	2712	NR	620	5962	NR	750	506	NR	880	220	NR
365	164	NR	495	3160	NR	625	5931	NR	755	475	NR	885	241	NR
370	172	NR	500	3608	NR	630	5805	NR	760	448	NR	890	235	NR
375	183	NR	505	3994	NR	635	5611	NR	765	384	NR	895	217	NR
380	176	NR	510	4248	NR	640	5451	NR	770	353	NR	900	39	NR
385	156	NR	515	4503	NR	645	5207	NR	775	311	NR	905	141	NR
390	153	NR	520	4710	NR	650	4930	NR	780	269	NR	910	171	NR
395	132	NR	525	4842	NR	655	4621	NR	785	225	NR	915	203	NR
400	109	NR	530	4943	NR	660	4314	NR	790	242	NR	920	136	NR
405	104	NR	535	5075	NR	665	3913	NR	795	214	NR	925	111	NR
410	120	NR	540	5166	NR	670	3578	NR	800	230	NR	930	182	NR
415	163	NR	545	5271	NR	675	3254	NR	805	180	NR	935	266	NR
420	248	NR	550	5351	NR	680	2923	NR	810	190	NR	940	206	NR
425	426	NR	555	5473	NR	685	2609	NR	815	179	NR	945	189	NR
430	751	NR	560	5446	NR	690	2301	NR	820	174	NR	950	170	NR
435	1375	NR	565	5562	NR	695	2028	NR	825	202	NR	955	299	NR
440	2849	NR	570	5585	NR	700	1795	NR	830	193	NR	960	164	NR
445	5885	NR	575	5621	NR	705	1580	NR	835	81	NR	965	90	NR
450	7814	NR	580	5694	NR	710	1400	NR	840	190	NR	970	259	NR
455	5689	NR	585	5691	NR	715	1245	NR	845	206	NR	975	320	NR
460	4100	NR	590	5769	NR	720	1098	NR	850	210	NR	980	283	NR
465	3561	NR	595	5854	NR	725	978	NR	855	271	NR	985	216	NR
470	2685	NR	600	5869	NR	730	865	NR	860	216	NR	990	245	NR
475	2192	NR	605	5900	NR	735	739	NR	865	215	NR	995	291	NR
480	2259	NR	610	6000	NR	740	663	NR	870	210	NR	1000	480	NR
485	2441	NR	615	6029	NR	745	569	NR	875	159	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: 274.2

M/P: 0.72

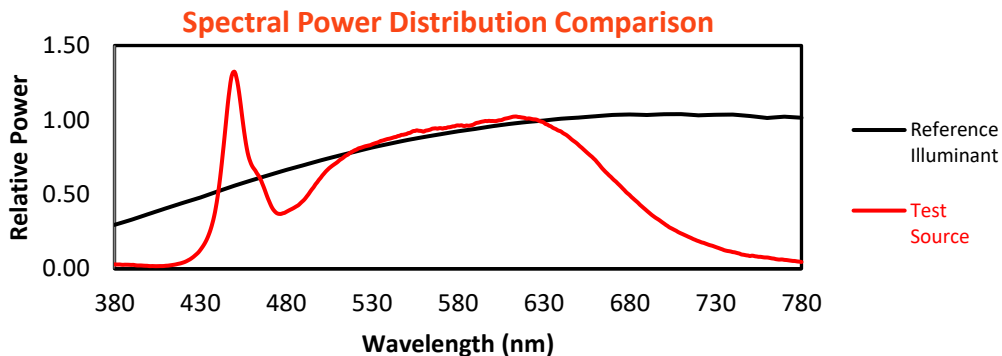
λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)
360	186	NR	490	2712	NR	620	5962	NR	750	506	NR	880	220	NR
365	164	NR	495	3160	NR	625	5931	NR	755	475	NR	885	241	NR
370	172	NR	500	3608	NR	630	5805	NR	760	448	NR	890	235	NR
375	183	NR	505	3994	NR	635	5611	NR	765	384	NR	895	217	NR
380	176	NR	510	4248	NR	640	5451	NR	770	353	NR	900	39	NR
385	156	NR	515	4503	NR	645	5207	NR	775	311	NR	905	141	NR
390	153	NR	520	4710	NR	650	4930	NR	780	269	NR	910	171	NR
395	132	NR	525	4842	NR	655	4621	NR	785	225	NR	915	203	NR
400	109	NR	530	4943	NR	660	4314	NR	790	242	NR	920	136	NR
405	104	NR	535	5075	NR	665	3913	NR	795	214	NR	925	111	NR
410	120	NR	540	5166	NR	670	3578	NR	800	230	NR	930	182	NR
415	163	NR	545	5271	NR	675	3254	NR	805	180	NR	935	266	NR
420	248	NR	550	5351	NR	680	2923	NR	810	190	NR	940	206	NR
425	426	NR	555	5473	NR	685	2609	NR	815	179	NR	945	189	NR
430	751	NR	560	5446	NR	690	2301	NR	820	174	NR	950	170	NR
435	1375	NR	565	5562	NR	695	2028	NR	825	202	NR	955	299	NR
440	2849	NR	570	5585	NR	700	1795	NR	830	193	NR	960	164	NR
445	5885	NR	575	5621	NR	705	1580	NR	835	81	NR	965	90	NR
450	7814	NR	580	5694	NR	710	1400	NR	840	190	NR	970	259	NR
455	5689	NR	585	5691	NR	715	1245	NR	845	206	NR	975	320	NR
460	4100	NR	590	5769	NR	720	1098	NR	850	210	NR	980	283	NR
465	3561	NR	595	5854	NR	725	978	NR	855	271	NR	985	216	NR
470	2685	NR	600	5869	NR	730	865	NR	860	216	NR	990	245	NR
475	2192	NR	605	5900	NR	735	739	NR	865	215	NR	995	291	NR
480	2259	NR	610	6000	NR	740	663	NR	870	210	NR	1000	480	NR
485	2441	NR	615	6029	NR	745	569	NR	875	159	NR			

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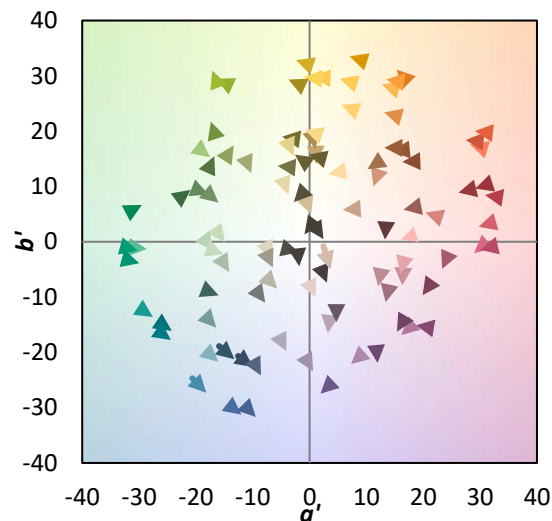
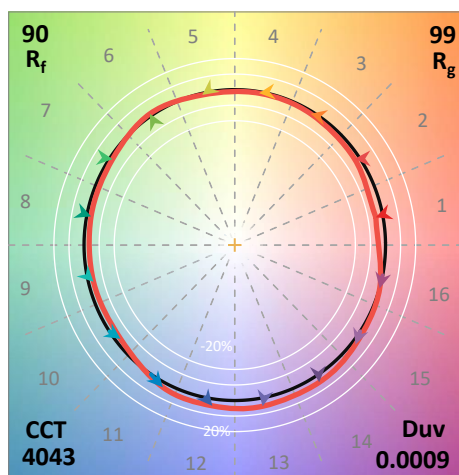
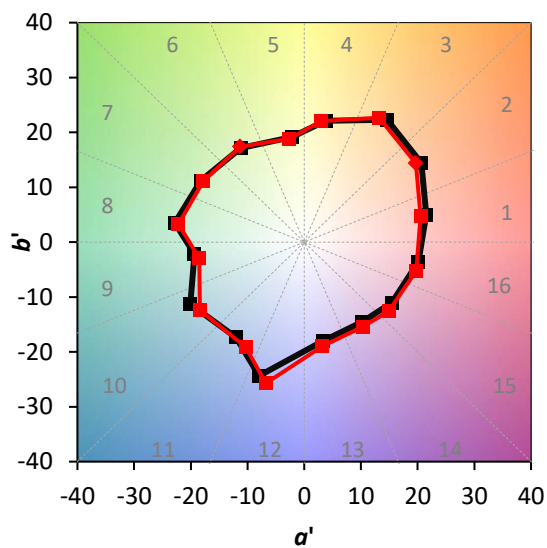
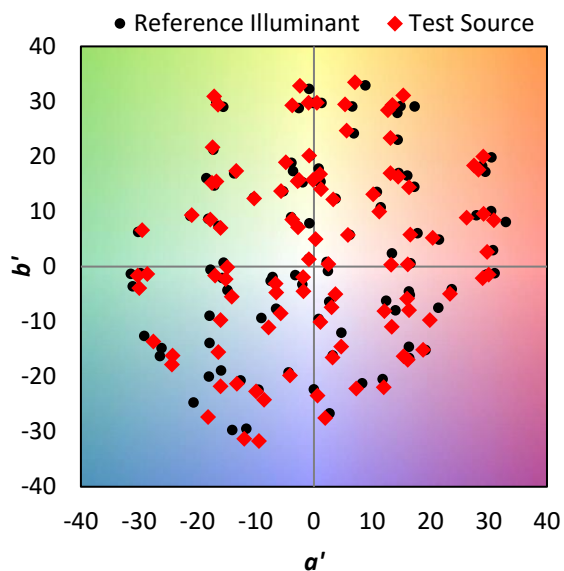
TM-30-18

Summary

$R_f = 90.4$
 $R_g = 99.3$
 CIE $R_a = 91.9$
 $R_9 = 63.5$



Color Vector Graphics

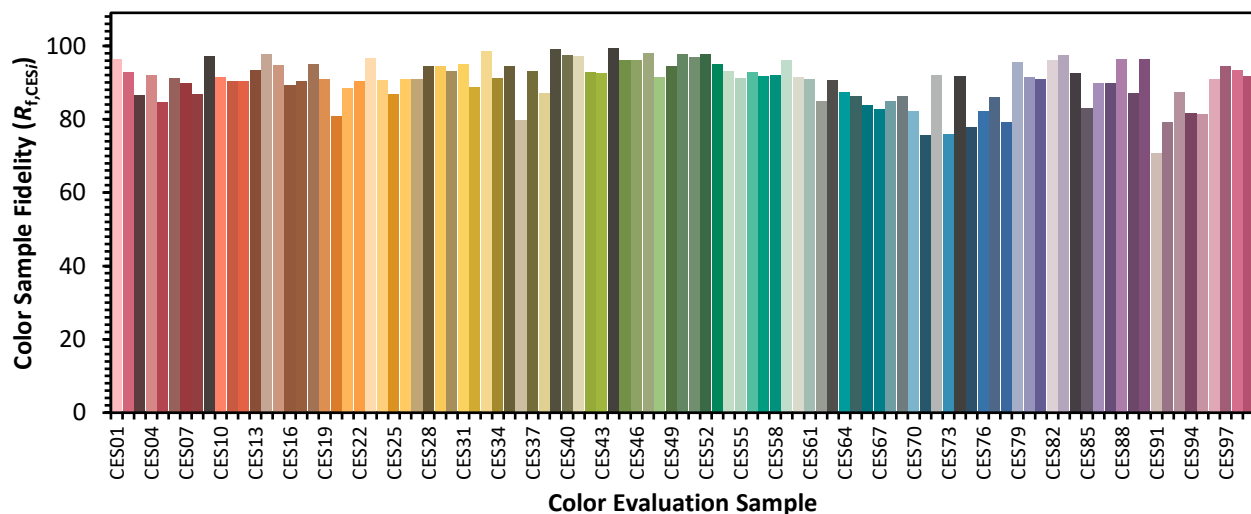


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Individual Sample Fidelity Index ($R_{f,i}$)

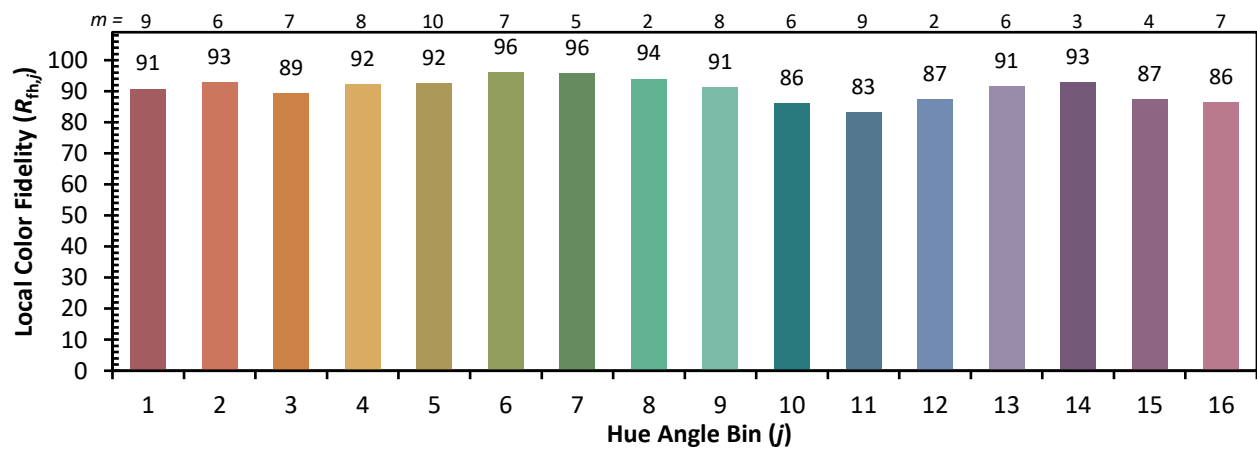
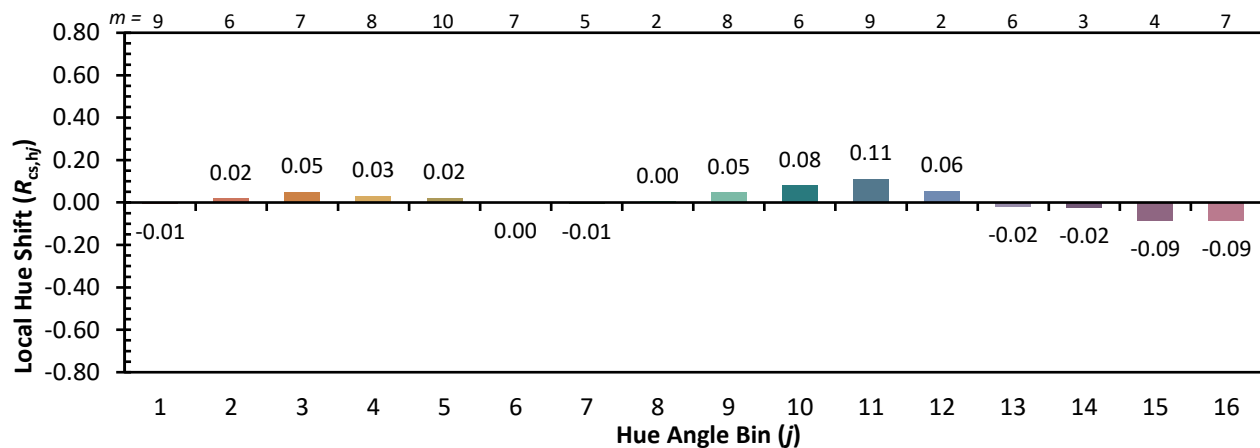
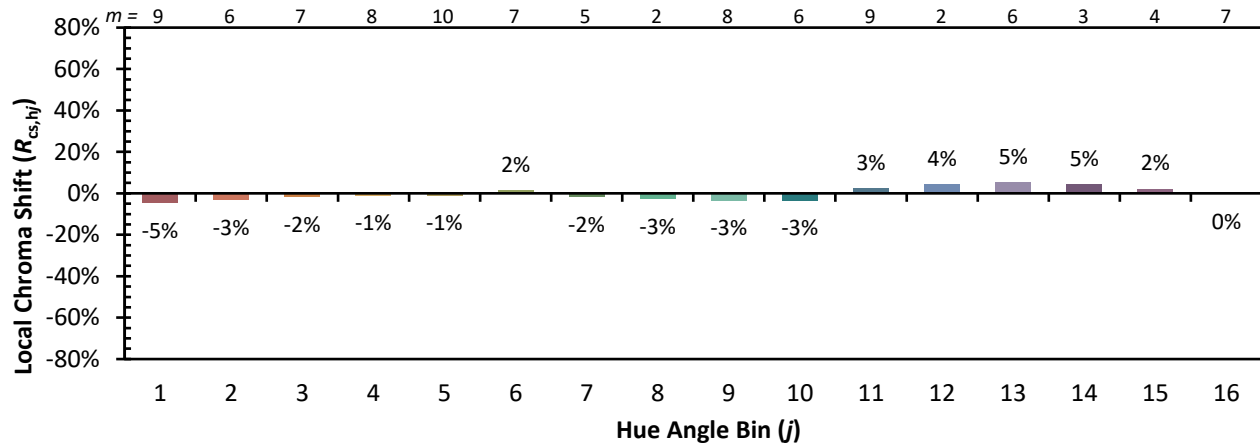
CES01 = 85	CES26 = 91	CES51 = 97	CES76 = 82
CES02 = 61	CES27 = 91	CES52 = 98	CES77 = 86
CES03 = 31	CES28 = 94	CES53 = 95	CES78 = 79
CES04 = 69	CES29 = 94	CES54 = 93	CES79 = 95
CES05 = 49	CES30 = 93	CES55 = 91	CES80 = 92
CES06 = 50	CES31 = 95	CES56 = 93	CES81 = 91
CES07 = 42	CES32 = 89	CES57 = 92	CES82 = 96
CES08 = 41	CES33 = 99	CES58 = 92	CES83 = 98
CES09 = 29	CES34 = 91	CES59 = 96	CES84 = 93
CES10 = 74	CES35 = 94	CES60 = 91	CES85 = 83
CES11 = 57	CES36 = 80	CES61 = 91	CES86 = 90
CES12 = 63	CES37 = 93	CES62 = 85	CES87 = 90
CES13 = 43	CES38 = 87	CES63 = 91	CES88 = 96
CES14 = 74	CES39 = 99	CES64 = 87	CES89 = 87
CES15 = 71	CES40 = 97	CES65 = 86	CES90 = 96
CES16 = 47	CES41 = 97	CES66 = 84	CES91 = 71
CES17 = 49	CES42 = 93	CES67 = 83	CES92 = 79
CES18 = 56	CES43 = 93	CES68 = 85	CES93 = 87
CES19 = 71	CES44 = 99	CES69 = 86	CES94 = 82
CES20 = 66	CES45 = 96	CES70 = 82	CES95 = 81
CES21 = 85	CES46 = 96	CES71 = 76	CES96 = 91
CES22 = 78	CES47 = 98	CES72 = 92	CES97 = 94
CES23 = 91	CES48 = 92	CES73 = 76	CES98 = 93
CES24 = 90	CES49 = 95	CES74 = 92	CES99 = 92
CES25 = 71	CES50 = 98	CES75 = 78	



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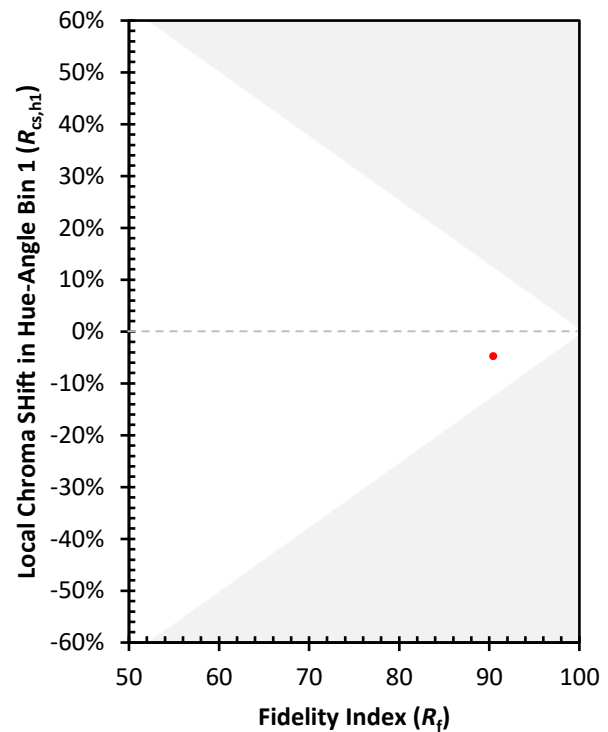
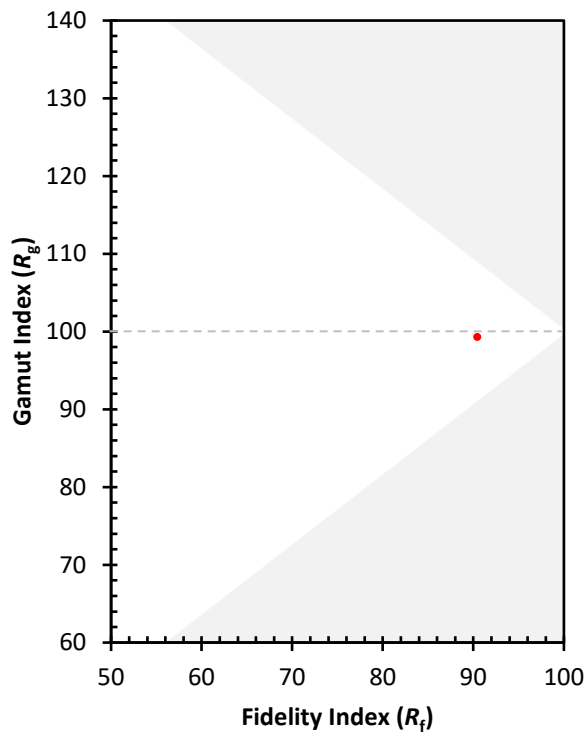
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)