

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: P861219

Luminaire Tested: CS-SL-9SCT-120-ID-UNV-W-SA-STD-COR (High-2400K)

Issue Date: 8/14/2024

Test Information

Test Method: LM-79-2019
Report Number: P861219
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-COR (High-2400K)
Description: iO CovSelect LED LINEAR LUMINAIRE, 1 FOOT, LOW OUTPUT
ADJUSTED TO 2400K
Light Source: 2400 CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 648.5 lumens
Efficiency: N/A
Efficacy: 104.6 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

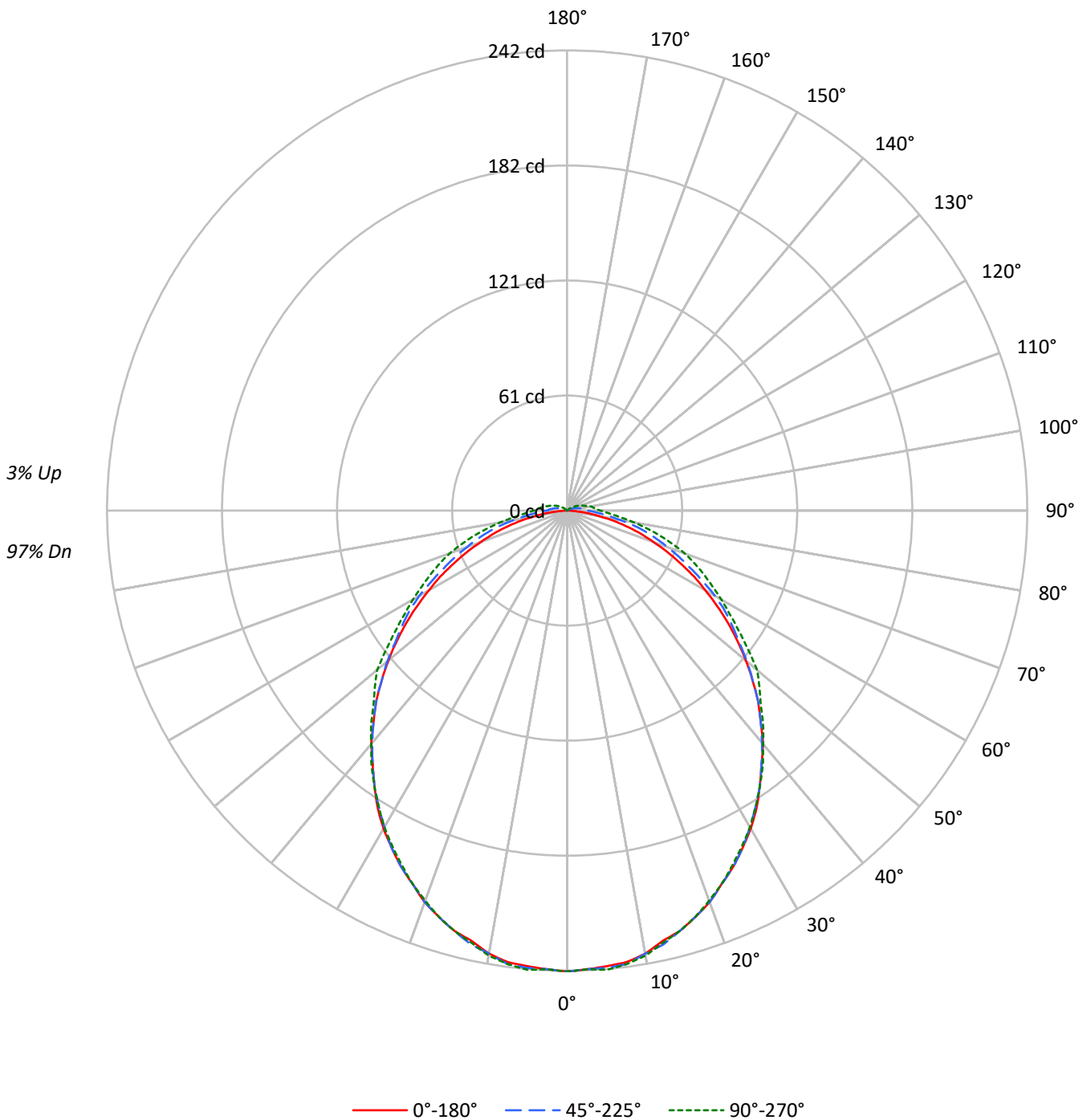
Input Watts (W): 6.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.9718
Total Harmonic Distortion (THDi): 0.0513
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P861219

CATALOG NUMBER: CS-SL-9SCT-120-ID-UNV-W-SA-STD-COR (High-2400K)

Luminous Intensity Polar Plot





TEST NUMBER: P861219

CATALOG NUMBER: CS-SL-9SCT-120-ID-UNV-W-SA-STD-COR (High-2400K)

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	50	30	10	50	30	10	0		
RCR																										
0	118	118	118	118	115	115	115	115	110	110	110	104	104	104	100	100	100	97								
1	108	103	99	95	105	100	97	93	96	92	89	91	89	86	87	85	83	81								
2	98	90	83	77	95	88	82	76	84	79	74	80	76	72	77	73	70	68								
3	90	79	71	65	87	77	70	64	74	68	62	71	65	61	68	63	60	57								
4	82	70	62	55	80	69	61	54	66	59	53	63	57	52	61	56	51	49								
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	55	49	45	43								
6	70	57	48	42	68	56	47	41	54	46	41	52	45	40	50	44	40	37								
7	65	52	43	37	63	51	42	37	49	41	36	47	41	36	46	40	35	33								
8	61	47	39	33	59	46	38	33	45	38	32	43	37	32	42	36	32	30								
9	57	43	35	30	55	43	35	30	41	34	29	40	34	29	39	33	29	27								
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26	24								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31310	31310	31310
5°	31127	30784	30757
10°	30919	30019	29848
15°	30440	29115	28688
20°	29904	28167	27504
25°	29176	27044	26256
30°	28473	25813	25051
35°	27462	24568	23712
40°	26565	23156	22342
45°	25410	21770	21029
50°	24059	20222	20189
55°	22591	18780	18271
60°	20944	17420	16892
65°	19222	15491	15758
70°	17253	13858	14709
75°	15188	12370	12961
80°	11575	9984	10983
85°	6943	8087	9259

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25410 cd/sqm



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CATALOG NUMBER: CS-SL-9SCT-120-ID-UNV-W-SA-STD-COR (High-2400K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.9	3.5
10°-20°	64.4	9.9
20°-30°	94.9	14.6
30°-40°	110.3	17.0
40°-50°	109.6	16.9
50°-60°	95.2	14.7
60°-70°	71.5	11.0
70°-80°	44.2	6.8
80°-90°	18.5	2.9
90°-100°	8.6	1.3
100°-110°	5.1	0.8
110°-120°	2.4	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°	182.2	28.1
0°-40°	292.5	45.1
0°-60°	497.4	76.7
0°-90°	631.5	97.4
90°-120°	16.1	2.5
90°-150°	16.9	2.6
90°-180°	17.0	2.6
0°-180°	648.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	242	242	242	242	242	
5°	240	240	241	241	242	23
15°	229	228	229	229	229	64
25°	207	206	207	206	206	95
35°	177	176	177	177	177	111
45°	142	140	142	143	144	109
55°	103	102	106	110	110	92
65°	66	67	72	77	79	65
75°	33	35	42	48	50	35
85°	6	10	17	22	24	7
90°	0	4	11	16	17	0
95°	0	3	9	13	14	0
105°	0	1	5	9	10	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: P861219

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	242.4	242.4	242.4	242.4	242.4
2.5°	241.4	241.4	241.4	241.4	241.4
5°	240.5	240.5	241.4	241.4	242.4
7.5°	239.5	238.5	240.5	240.5	240.5
10°	236.6	235.6	236.6	236.6	237.6
12.5°	231.8	230.8	233.7	232.8	232.8
15°	228.9	227.9	228.9	228.9	228.9
17.5°	224.1	223.1	224.1	224.1	224.1
20°	219.2	218.3	219.2	218.3	218.3
22.5°	212.5	212.5	212.5	212.5	212.5
25°	206.7	205.7	206.7	205.7	205.7
27.5°	199.9	199.0	199.9	199.0	199.0
30°	193.2	192.2	192.2	192.2	192.2
32.5°	185.4	184.5	184.5	184.5	184.5
35°	176.7	175.8	176.7	176.7	176.7
37.5°	168.0	167.1	168.0	168.0	169.0
40°	160.3	158.4	159.4	160.3	160.3
42.5°	150.7	149.7	150.7	151.6	152.6
45°	142.0	140.0	142.0	142.9	143.9
47.5°	132.3	130.4	132.3	135.2	137.1
50°	122.7	121.7	123.6	127.5	130.4
52.5°	113.0	112.0	114.0	119.8	119.8
55°	103.3	102.4	106.2	110.1	110.1
57.5°	93.7	92.7	98.5	100.4	101.4
60°	84.0	84.0	89.8	91.7	93.7
62.5°	75.3	75.3	80.2	84.0	86.0
65°	65.7	66.6	71.5	77.3	79.2
67.5°	57.0	57.9	63.7	70.5	72.4
70°	48.3	50.2	56.0	63.7	65.7
72.5°	40.6	42.5	49.3	56.0	57.9
75°	32.8	34.8	42.5	48.3	50.2
77.5°	25.1	27.0	35.7	40.6	42.5
80°	17.4	21.2	28.0	33.8	35.7
82.5°	11.6	14.5	22.2	28.0	29.0
85°	5.8	9.7	17.4	22.2	24.1
87.5°	1.9	5.8	13.5	18.3	20.3
90°	0.0	3.9	10.6	15.5	17.4
92.5°	0.0	2.9	9.7	14.5	15.5
95°	0.0	2.9	8.7	12.6	14.5
97.5°	0.0	1.9	7.7	11.6	13.5
100°	0.0	1.9	6.8	10.6	12.6
102.5°	0.0	1.0	5.8	9.7	10.6
105°	0.0	1.0	4.8	8.7	9.7
107.5°	0.0	0.0	3.9	7.7	8.7
110°	0.0	0.0	2.9	6.8	7.7



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CATALOG NUMBER: CS-SL-9SCT-120-ID-UNV-W-SA-STD-COR (High-2400K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	2.9	5.8	6.8
115°	0.0	0.0	1.9	4.8	5.8
117.5°	0.0	0.0	1.0	3.9	4.8
120°	0.0	0.0	1.0	2.9	3.9
122.5°	0.0	0.0	1.0	1.9	2.9
125°	0.0	0.0	0.0	1.9	2.9
127.5°	0.0	0.0	0.0	1.0	1.9
130°	0.0	0.0	0.0	1.0	1.0
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: SP1-2312-259-1

Test Date: 02/01/2024

Luminaire Tested: CS-SL-8SCT-120-ID-UNV-W-SA-STD-1F (LOW-2400K)

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

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2312-259-1
 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-2400K)**
 Description: IO LED COVSELECT ARCHITECTURAL COVE

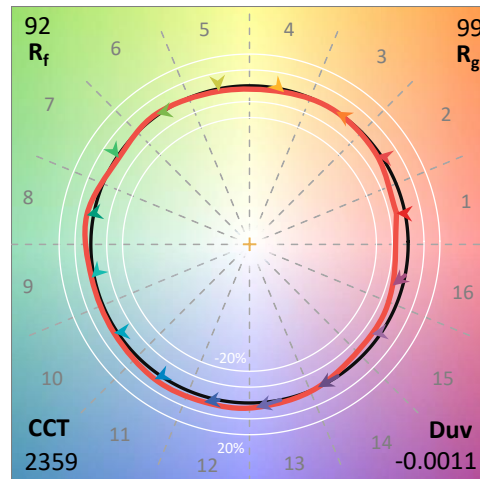
Spectral Parameters

CCT (K): 2359
 CIE u': 0.2802
 CIE v': 0.5320
 Duv: -0.0011
 CIE x: 0.4878
 CIE y: 0.4116
 CIE z: 0.1006
 Peak Wavelength (nm): 621
 Dominant Wavelength (nm): 586
 Purity: 70.4

CRI (Ra): 92.0
 R1: 98.7
 R2: 96.9
 R3: 92.4
 R4: 98.9
 R5: 98.0
 R6: 87.7
 R7: 86.9
 R8: 77.0

R9: 54.9
 R10: 92.2
 R11: 90.2
 R12: 83.8
 R13: 98.5
 R14: 96.7

Rf: 91.9
 Rg: 98.9



Test Conditions

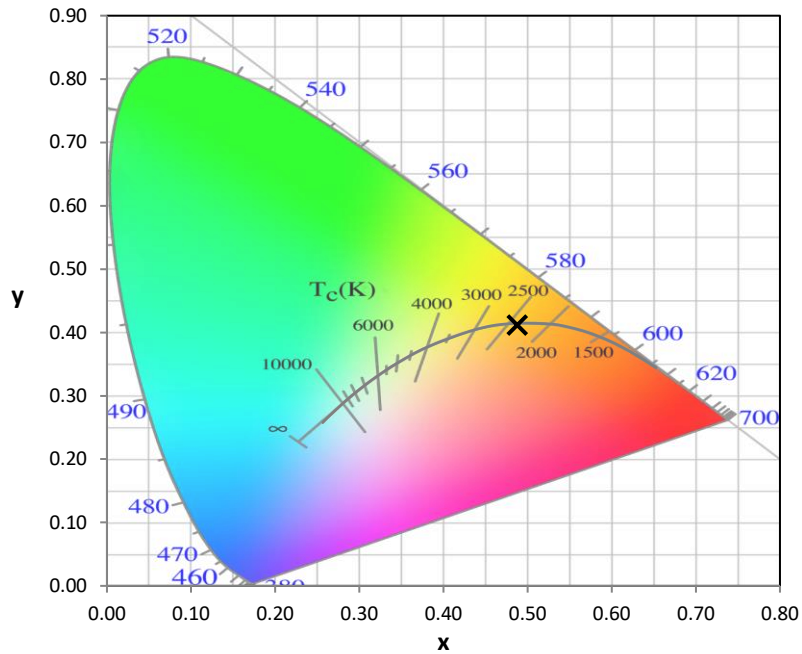
Stabilization Time: 25M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 25.4/24%
 Sphere Temperature (°C): 25.1

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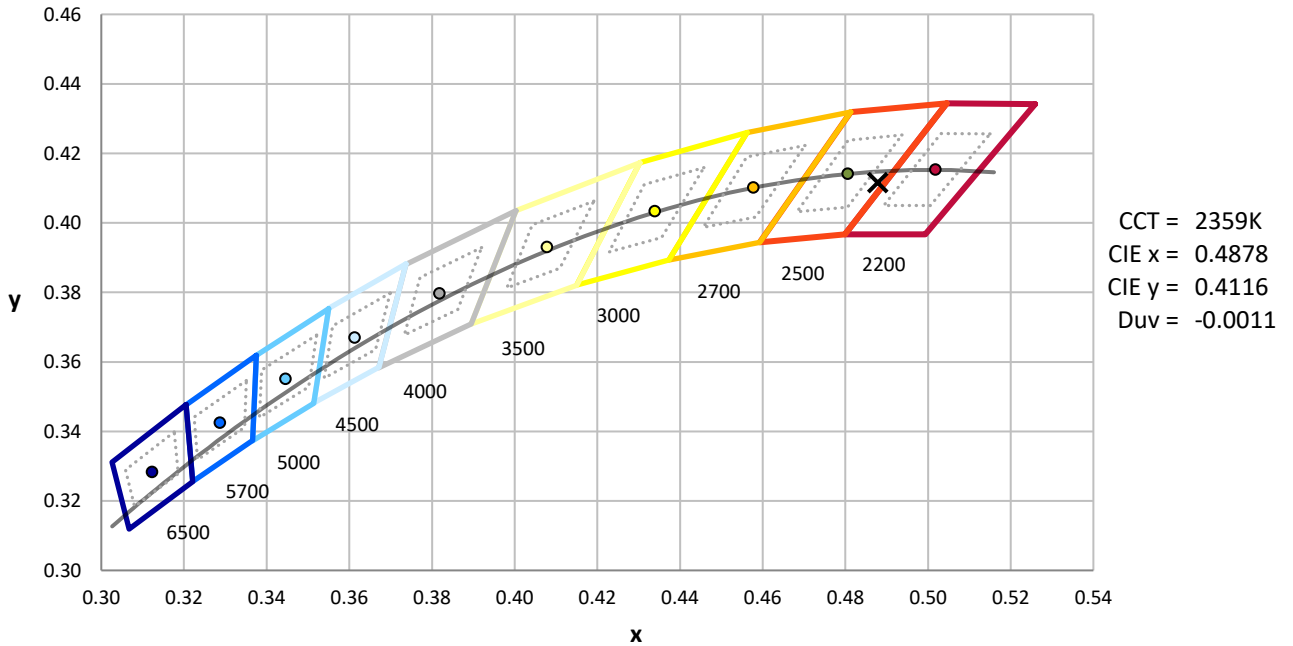
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	8/9/2023	2/9/2024
Power Meter	XITRON 2801 IN0071	10/23/2023	10/23/2024
AC Power Source	CHROMA 61603 IN0063	10/24/2023	10/24/2024
DC Power Source	AGILENT E3634A IN0208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



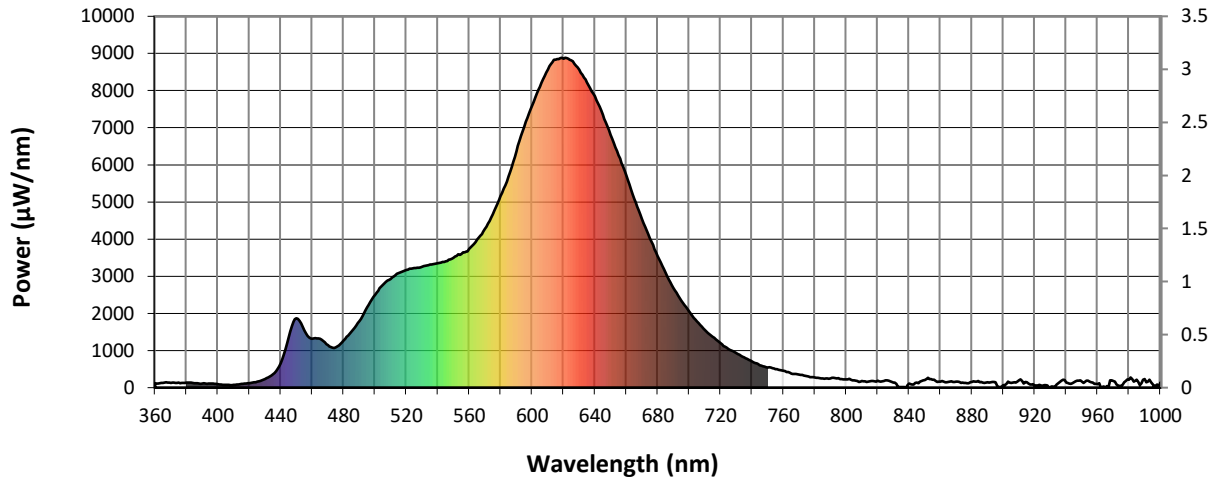
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2500K 7-step quadrangle

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Photopic Flux vs. Wavelength

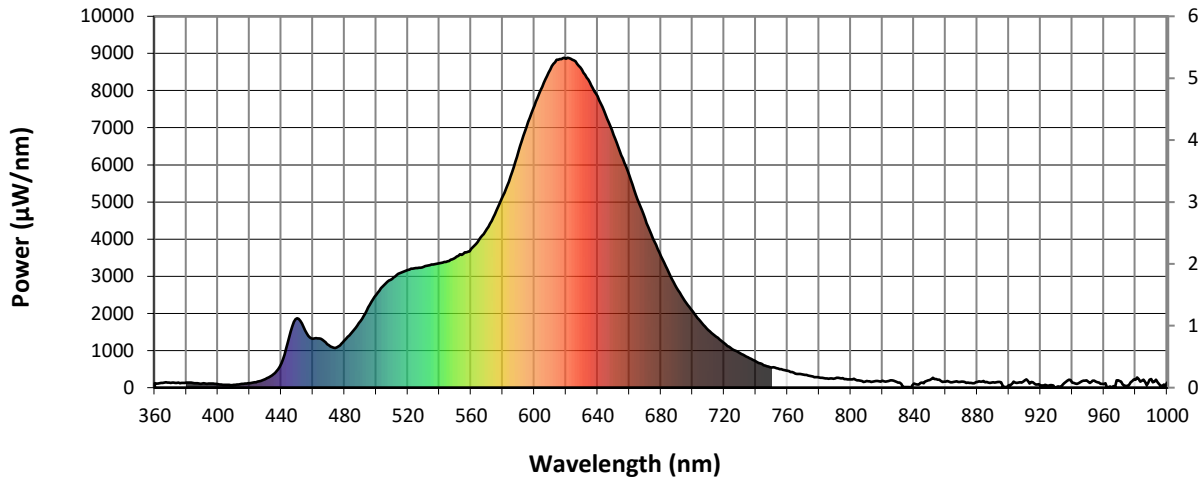


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λ (nm)	Power ($\mu\text{W}/\text{nm}$)	Lumens (ϕ/nm)	λ (nm)	Power ($\mu\text{W}/\text{nm}$)	Lumens (ϕ/nm)	λ (nm)	Power ($\mu\text{W}/\text{nm}$)	Lumens (ϕ/nm)	λ (nm)	Power ($\mu\text{W}/\text{nm}$)	Lumens (ϕ/nm)	λ (nm)	Power ($\mu\text{W}/\text{nm}$)	Lumens (ϕ/nm)
360	115	NR	490	1795	NR	620	8857	NR	750	538	NR	880	150	NR
365	131	NR	495	2159	NR	625	8812	NR	755	499	NR	885	146	NR
370	131	NR	500	2496	NR	630	8561	NR	760	456	NR	890	146	NR
375	134	NR	505	2767	NR	635	8218	NR	765	380	NR	895	148	NR
380	134	NR	510	2927	NR	640	7850	NR	770	355	NR	900	68	NR
385	119	NR	515	3081	NR	645	7345	NR	775	304	NR	905	126	NR
390	110	NR	520	3168	NR	650	6810	NR	780	271	NR	910	201	NR
395	112	NR	525	3223	NR	655	6252	NR	785	245	NR	915	143	NR
400	93	NR	530	3256	NR	660	5723	NR	790	251	NR	920	62	NR
405	73	NR	535	3318	NR	665	5085	NR	795	254	NR	925	50	NR
410	74	NR	540	3347	NR	670	4538	NR	800	220	NR	930	16	NR
415	99	NR	545	3404	NR	675	4018	NR	805	193	NR	935	121	NR
420	120	NR	550	3493	NR	680	3544	NR	810	177	NR	940	139	NR
425	159	NR	555	3602	NR	685	3092	NR	815	174	NR	945	146	NR
430	230	NR	560	3734	NR	690	2689	NR	820	184	NR	950	160	NR
435	360	NR	565	3987	NR	695	2340	NR	825	192	NR	955	159	NR
440	656	NR	570	4274	NR	700	2054	NR	830	137	NR	960	95	NR
445	1351	NR	575	4673	NR	705	1779	NR	835	17	NR	965	0	NR
450	1866	NR	580	5162	NR	710	1553	NR	840	108	NR	970	181	NR
455	1543	NR	585	5690	NR	715	1368	NR	845	133	NR	975	53	NR
460	1319	NR	590	6371	NR	720	1199	NR	850	201	NR	980	216	NR
465	1313	NR	595	7025	NR	725	1045	NR	855	215	NR	985	217	NR
470	1144	NR	600	7597	NR	730	927	NR	860	161	NR	990	235	NR
475	1085	NR	605	8095	NR	735	814	NR	865	152	NR	995	91	NR
480	1275	NR	610	8568	NR	740	707	NR	870	162	NR	1000	137	NR
485	1508	NR	615	8828	NR	745	601	NR	875	124	NR			

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Scotopic Flux vs. Wavelength



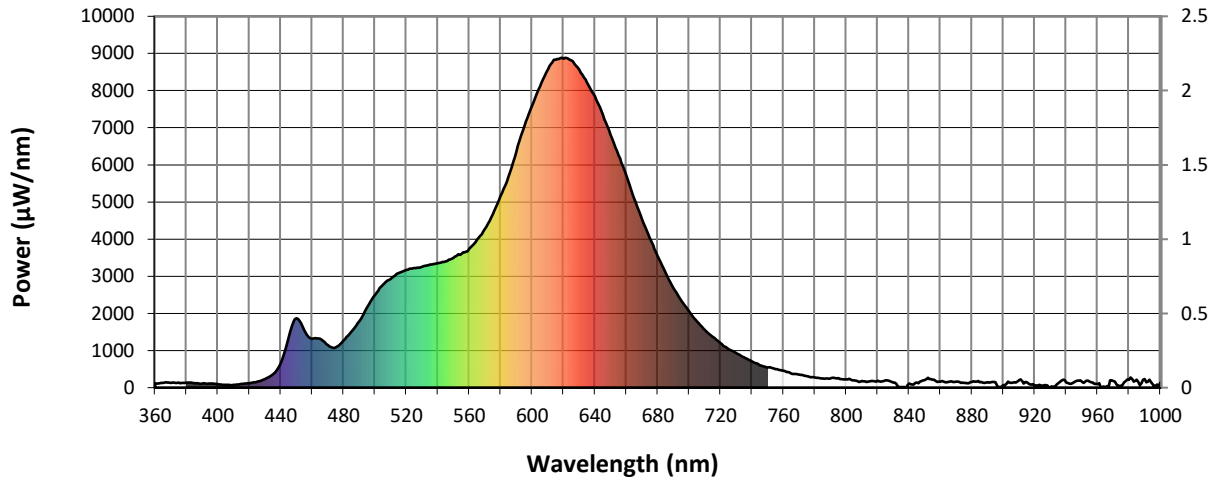
Scotopic Lumens: 404.5

S/P: 1.2

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	115	NR	490	1795	NR	620	8857	NR	750	538	NR	880	150	NR
365	131	NR	495	2159	NR	625	8812	NR	755	499	NR	885	146	NR
370	131	NR	500	2496	NR	630	8561	NR	760	456	NR	890	146	NR
375	134	NR	505	2767	NR	635	8218	NR	765	380	NR	895	148	NR
380	134	NR	510	2927	NR	640	7850	NR	770	355	NR	900	68	NR
385	119	NR	515	3081	NR	645	7345	NR	775	304	NR	905	126	NR
390	110	NR	520	3168	NR	650	6810	NR	780	271	NR	910	201	NR
395	112	NR	525	3223	NR	655	6252	NR	785	245	NR	915	143	NR
400	93	NR	530	3256	NR	660	5723	NR	790	251	NR	920	62	NR
405	73	NR	535	3318	NR	665	5085	NR	795	254	NR	925	50	NR
410	74	NR	540	3347	NR	670	4538	NR	800	220	NR	930	16	NR
415	99	NR	545	3404	NR	675	4018	NR	805	193	NR	935	121	NR
420	120	NR	550	3493	NR	680	3544	NR	810	177	NR	940	139	NR
425	159	NR	555	3602	NR	685	3092	NR	815	174	NR	945	146	NR
430	230	NR	560	3734	NR	690	2689	NR	820	184	NR	950	160	NR
435	360	NR	565	3987	NR	695	2340	NR	825	192	NR	955	159	NR
440	656	NR	570	4274	NR	700	2054	NR	830	137	NR	960	95	NR
445	1351	NR	575	4673	NR	705	1779	NR	835	17	NR	965	0	NR
450	1866	NR	580	5162	NR	710	1553	NR	840	108	NR	970	181	NR
455	1543	NR	585	5690	NR	715	1368	NR	845	133	NR	975	53	NR
460	1319	NR	590	6371	NR	720	1199	NR	850	201	NR	980	216	NR
465	1313	NR	595	7025	NR	725	1045	NR	855	215	NR	985	217	NR
470	1144	NR	600	7597	NR	730	927	NR	860	161	NR	990	235	NR
475	1085	NR	605	8095	NR	735	814	NR	865	152	NR	995	91	NR
480	1275	NR	610	8568	NR	740	707	NR	870	162	NR	1000	137	NR
485	1508	NR	615	8828	NR	745	601	NR	875	124	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: 150.3 M/P: 0.45

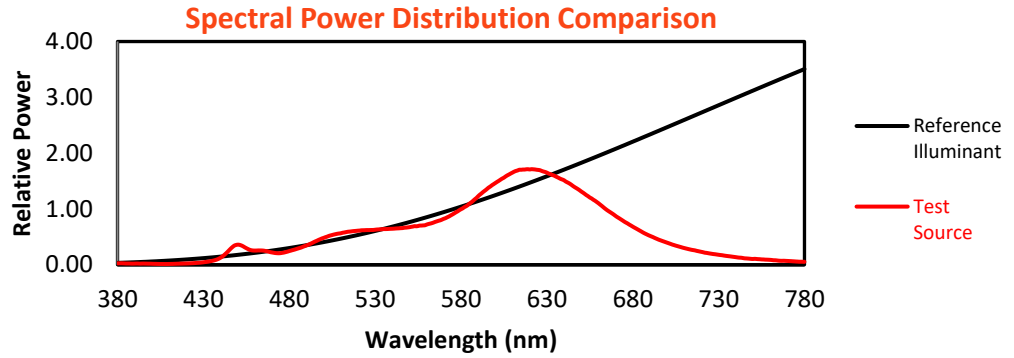
λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)
360	115	NR	490	1795	NR	620	8857	NR	750	538	NR	880	150	NR
365	131	NR	495	2159	NR	625	8812	NR	755	499	NR	885	146	NR
370	131	NR	500	2496	NR	630	8561	NR	760	456	NR	890	146	NR
375	134	NR	505	2767	NR	635	8218	NR	765	380	NR	895	148	NR
380	134	NR	510	2927	NR	640	7850	NR	770	355	NR	900	68	NR
385	119	NR	515	3081	NR	645	7345	NR	775	304	NR	905	126	NR
390	110	NR	520	3168	NR	650	6810	NR	780	271	NR	910	201	NR
395	112	NR	525	3223	NR	655	6252	NR	785	245	NR	915	143	NR
400	93	NR	530	3256	NR	660	5723	NR	790	251	NR	920	62	NR
405	73	NR	535	3318	NR	665	5085	NR	795	254	NR	925	50	NR
410	74	NR	540	3347	NR	670	4538	NR	800	220	NR	930	16	NR
415	99	NR	545	3404	NR	675	4018	NR	805	193	NR	935	121	NR
420	120	NR	550	3493	NR	680	3544	NR	810	177	NR	940	139	NR
425	159	NR	555	3602	NR	685	3092	NR	815	174	NR	945	146	NR
430	230	NR	560	3734	NR	690	2689	NR	820	184	NR	950	160	NR
435	360	NR	565	3987	NR	695	2340	NR	825	192	NR	955	159	NR
440	656	NR	570	4274	NR	700	2054	NR	830	137	NR	960	95	NR
445	1351	NR	575	4673	NR	705	1779	NR	835	17	NR	965	0	NR
450	1866	NR	580	5162	NR	710	1553	NR	840	108	NR	970	181	NR
455	1543	NR	585	5690	NR	715	1368	NR	845	133	NR	975	53	NR
460	1319	NR	590	6371	NR	720	1199	NR	850	201	NR	980	216	NR
465	1313	NR	595	7025	NR	725	1045	NR	855	215	NR	985	217	NR
470	1144	NR	600	7597	NR	730	927	NR	860	161	NR	990	235	NR
475	1085	NR	605	8095	NR	735	814	NR	865	152	NR	995	91	NR
480	1275	NR	610	8568	NR	740	707	NR	870	162	NR	1000	137	NR
485	1508	NR	615	8828	NR	745	601	NR	875	124	NR			

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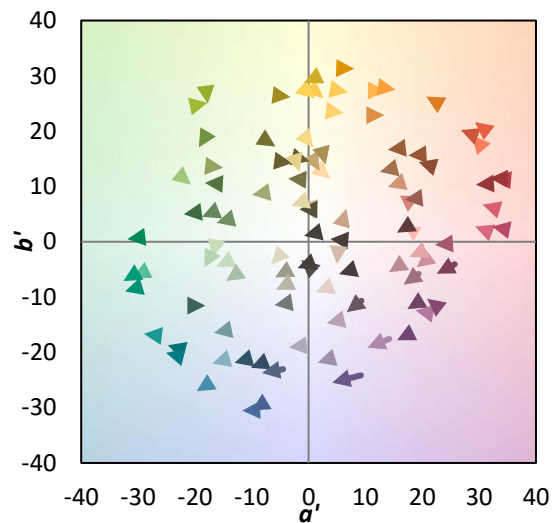
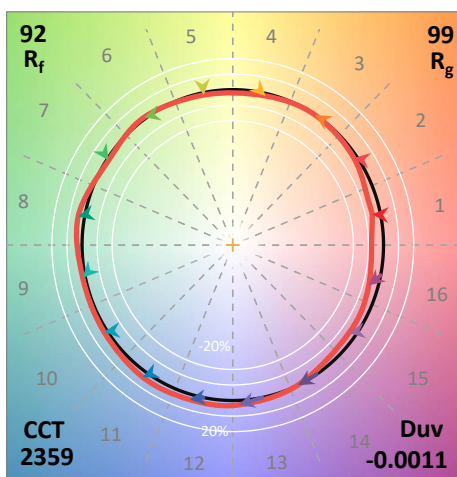
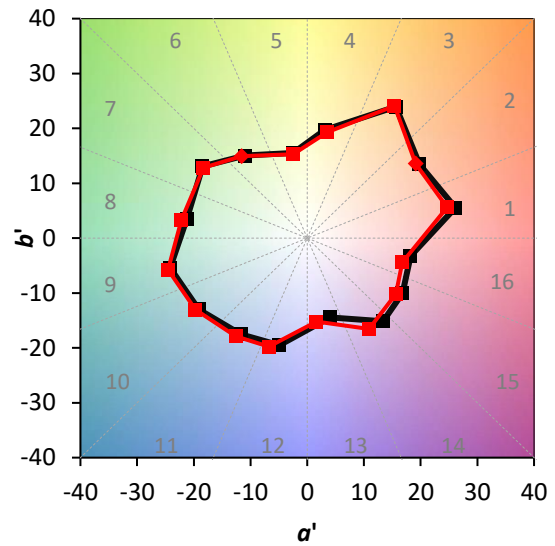
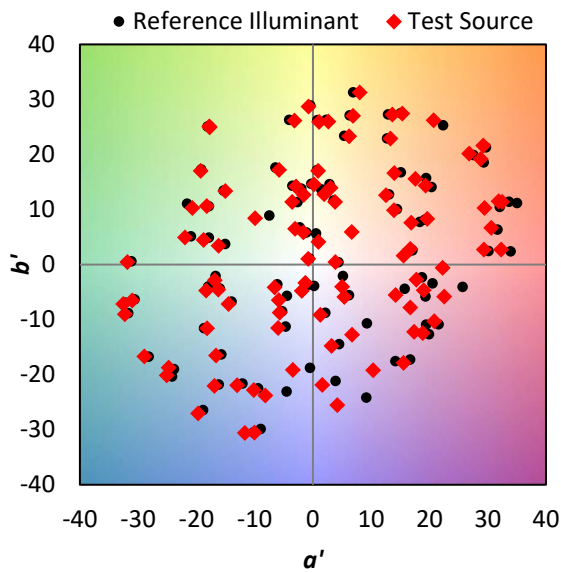
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Summary

$R_f = 91.9$
 $R_g = 98.9$
 CIE $R_a = 92.0$
 $R_9 = 54.9$



Color Vector Graphics

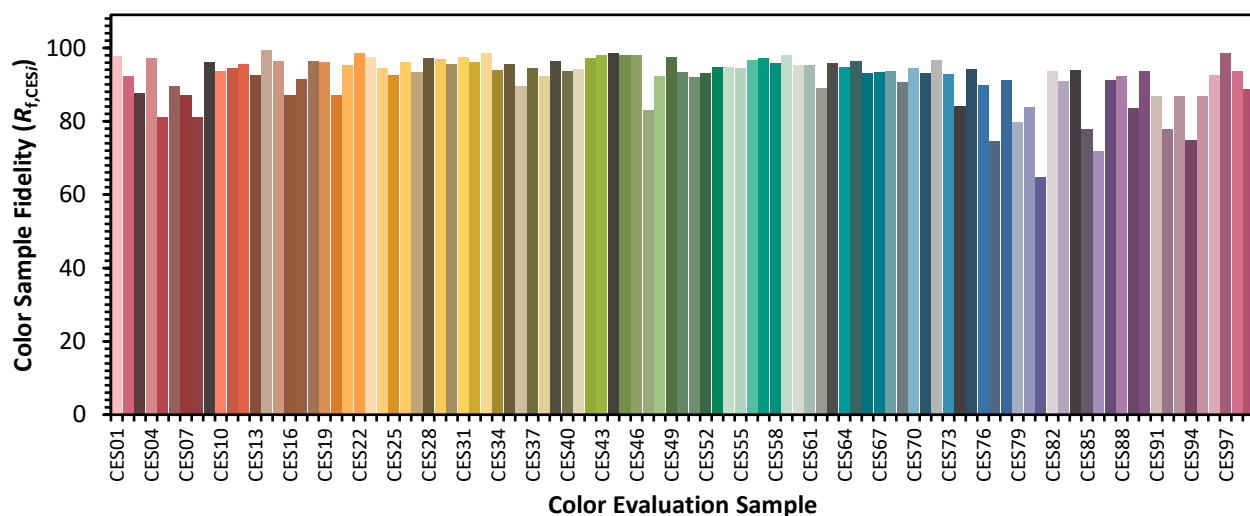


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Individual Sample Fidelity Index ($R_{f,i}$)

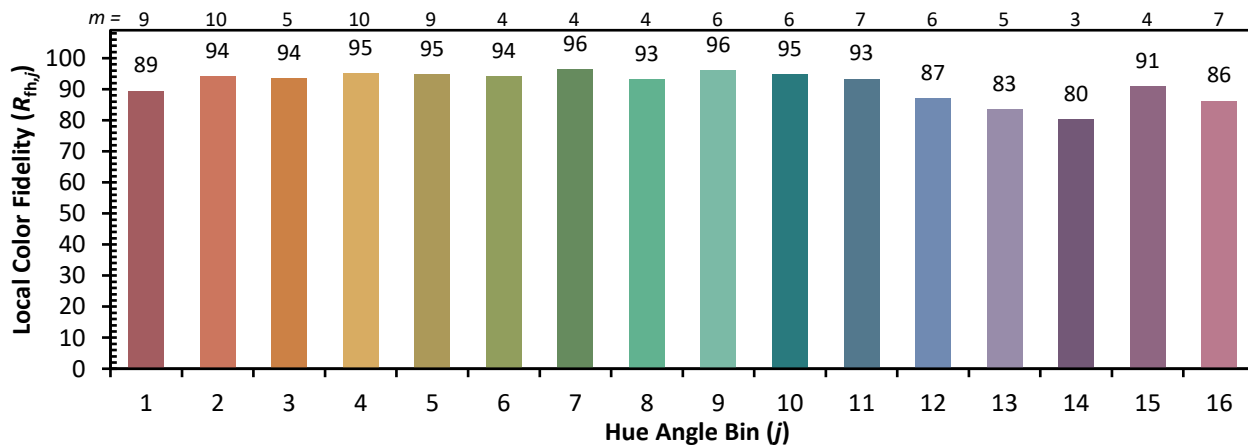
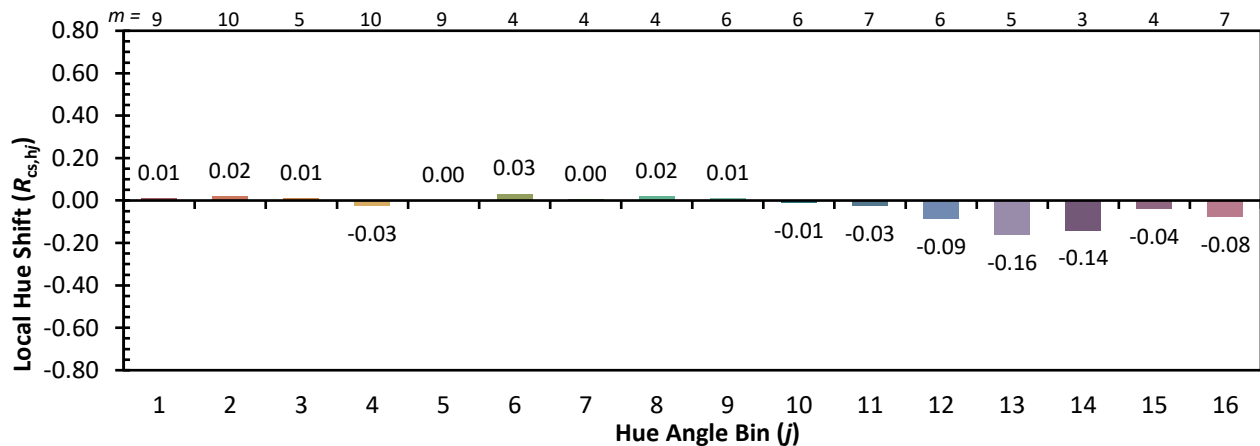
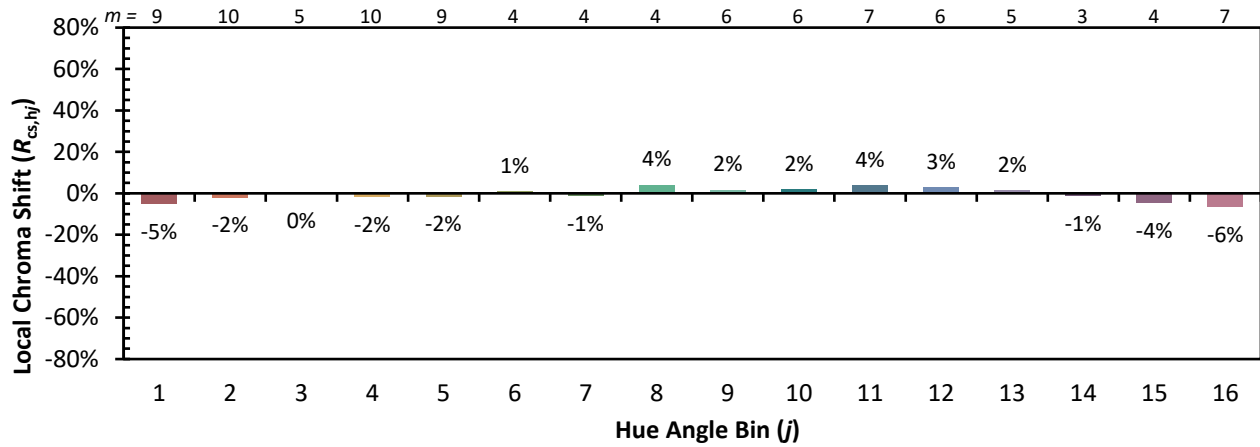
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CES02 = 65	CES27 = 93	CES52 = 93	CES77 = 75
CES03 = 32	CES28 = 97	CES53 = 95	CES78 = 91
CES04 = 71	CES29 = 97	CES54 = 95	CES79 = 80
CES05 = 52	CES30 = 96	CES55 = 95	CES80 = 84
CES06 = 52	CES31 = 97	CES56 = 97	CES81 = 65
CES07 = 45	CES32 = 96	CES57 = 97	CES82 = 94
CES08 = 44	CES33 = 99	CES58 = 96	CES83 = 91
CES09 = 29	CES34 = 94	CES59 = 98	CES84 = 94
CES10 = 78	CES35 = 96	CES60 = 95	CES85 = 78
CES11 = 60	CES36 = 89	CES61 = 95	CES86 = 72
CES12 = 67	CES37 = 95	CES62 = 89	CES87 = 91
CES13 = 45	CES38 = 92	CES63 = 96	CES88 = 92
CES14 = 75	CES39 = 96	CES64 = 95	CES89 = 84
CES15 = 73	CES40 = 94	CES65 = 96	CES90 = 94
CES16 = 49	CES41 = 94	CES66 = 93	CES91 = 87
CES17 = 51	CES42 = 97	CES67 = 93	CES92 = 78
CES18 = 57	CES43 = 98	CES68 = 94	CES93 = 87
CES19 = 73	CES44 = 99	CES69 = 91	CES94 = 75
CES20 = 69	CES45 = 98	CES70 = 94	CES95 = 87
CES21 = 87	CES46 = 98	CES71 = 93	CES96 = 93
CES22 = 80	CES47 = 83	CES72 = 97	CES97 = 98
CES23 = 92	CES48 = 92	CES73 = 93	CES98 = 94
CES24 = 91	CES49 = 97	CES74 = 84	CES99 = 89
CES25 = 72	CES50 = 93	CES75 = 94	



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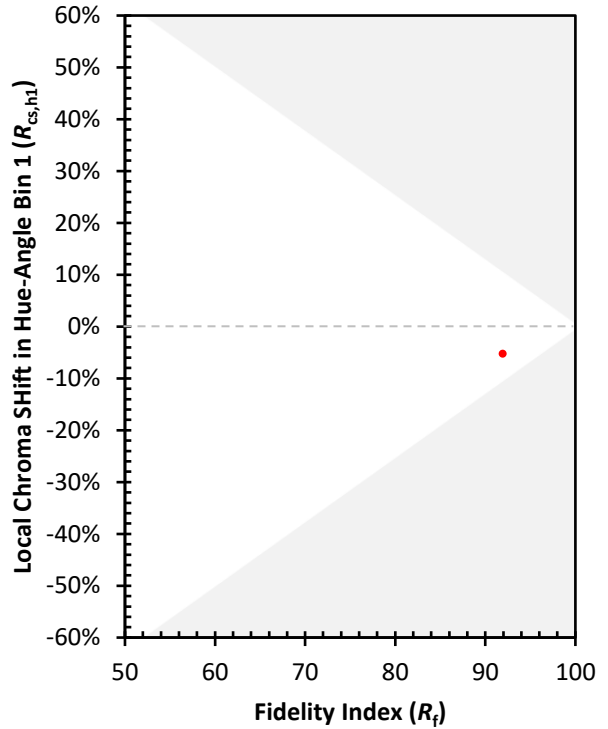
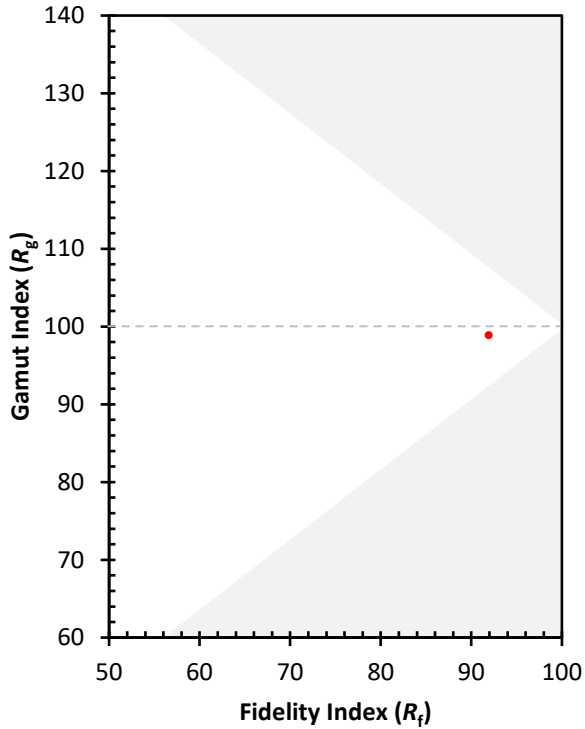
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)