

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P830890

Luminaire Tested: **OHBL-9HE-A-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830890
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-9HE-A-UNV-L850-CD
Description: 9000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

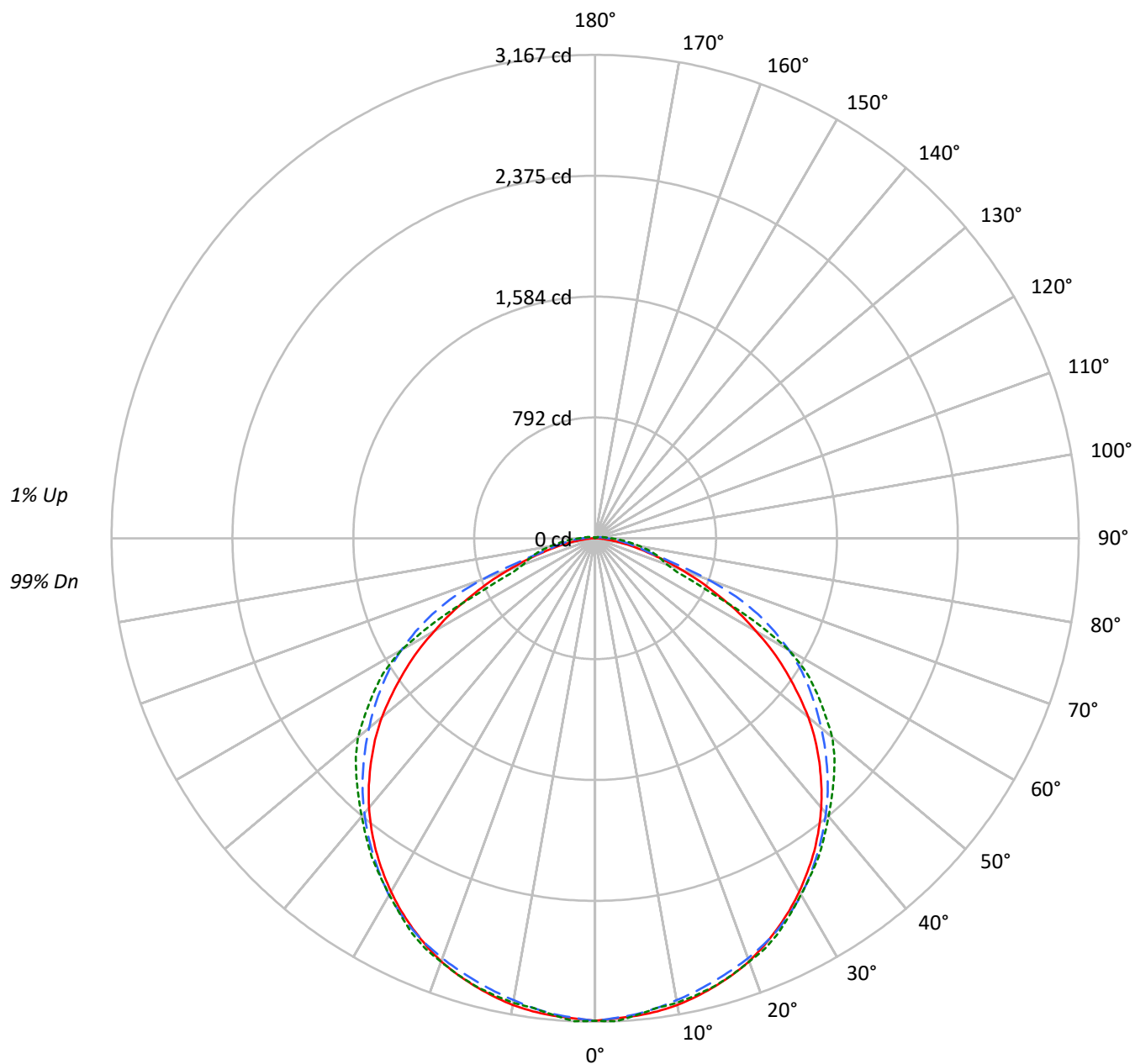
Lumens per Lamp: N/A
Luminaire Lumens: 8934.0 lumens
Efficiency: N/A
Efficacy: 171.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 52
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: 25 FT

TEST NUMBER: P830890

CATALOG NUMBER: OHBL-9HE-A-UNV-L850-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830890

CATALOG NUMBER: OHBL-9HE-A-UNV-L850-CD

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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101			99
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86			83
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72			70
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61			59
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53			51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46			44
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40			38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36			34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32			30
9	57	43	35	30	55	43	35	29	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°	5399	5399	5399
5°	5363	5318	5328
10°	5344	5235	5266
15°	5310	5172	5227
20°	5276	5132	5177
25°	5212	5091	5128
30°	5143	5029	5027
35°	5060	4930	4970
40°	4953	4829	4892
45°	4803	4712	4855
50°	4601	4578	4811
55°	4280	4447	4625
60°	3860	4256	4269
65°	3311	3905	2699
70°	2667	3042	1952
75°	1999	1801	1972
80°	1392	1490	1870
85°	792	1353	1730



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.0	3.3
10°-20°	854.6	9.6
20°-30°	1305.3	14.6
30°-40°	1583.8	17.7
40°-50°	1659.9	18.6
50°-60°	1504.2	16.8
60°-70°	1008.5	11.3
70°-80°	452.9	5.1
80°-90°	164.3	1.8
90°-100°	49.5	0.6
100°-110°	23.3	0.3
110°-120°	11.7	0.1
120°-130°	6.5	0.1
130°-140°	4.4	0.0
140°-150°	3.0	0.0
150°-160°	2.2	0.0
160°-170°	1.4	0.0
170°-180°	0.5	0.0
0°-30°	2458.0	27.5
0°-40°	4041.8	45.2
0°-60°	7205.9	80.7
0°-90°	8831.5	98.9
90°-120°	84.5	0.9
90°-150°	98.4	1.1
90°-180°	103.0	1.2
0°-180°	8934.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3161	3161	3161	3161	3161	
5°	3140	3151	3129	3139	3135	299
15°	3038	3026	3005	3032	3035	858
25°	2823	2810	2830	2856	2848	1301
35°	2502	2508	2533	2560	2550	1564
45°	2076	2110	2149	2204	2211	1599
55°	1528	1602	1711	1779	1775	1364
65°	897	1037	1177	994	811	893
75°	353	512	377	385	410	386
85°	61	116	150	180	189	74
90°	0	39	77	97	102	4
95°	0	24	53	64	66	1
105°	2	10	26	32	33	2
115°	4	6	13	17	18	3
125°	3	4	8	10	10	3
135°	4	5	5	7	8	3
145°	4	5	5	5	6	3
155°	5	5	5	5	5	2
165°	5	5	5	5	5	1
175°	5	5	5	4	4	0
180°	5	5	5	5	5	



TEST NUMBER: P830890

CATALOG NUMBER: OHBL-9HE-A-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3160.9	3160.9	3160.9	3160.9	3160.9
2.5°	3148.1	3161.3	3144.9	3162.7	3167.3
5°	3140.3	3151.3	3129.3	3138.9	3134.8
7.5°	3126.1	3129.8	3103.7	3111.5	3103.3
10°	3105.1	3103.3	3072.6	3087.7	3089.6
12.5°	3074.0	3068.5	3041.1	3064.0	3064.4
15°	3038.4	3026.5	3005.0	3031.5	3035.2
17.5°	2997.2	2981.7	2967.5	3001.8	2996.3
20°	2949.2	2931.0	2928.2	2965.7	2952.0
22.5°	2889.8	2875.7	2882.1	2917.7	2909.0
25°	2822.7	2810.3	2830.0	2856.0	2847.8
27.5°	2751.8	2744.5	2766.9	2787.0	2771.0
30°	2674.1	2670.0	2699.7	2716.2	2696.1
32.5°	2589.6	2590.9	2619.3	2641.7	2622.9
35°	2501.8	2507.8	2533.3	2560.3	2550.3
37.5°	2405.4	2418.6	2444.2	2474.8	2464.3
40°	2303.5	2322.7	2351.0	2388.0	2378.4
42.5°	2193.3	2217.5	2254.1	2295.2	2294.3
45°	2076.3	2110.1	2149.4	2204.3	2211.1
47.5°	1954.7	1992.7	2042.5	2115.6	2126.1
50°	1822.7	1870.2	1932.3	2020.1	2026.5
52.5°	1675.5	1740.4	1822.7	1906.8	1899.0
55°	1527.9	1601.5	1710.7	1779.2	1775.1
57.5°	1380.7	1463.4	1596.0	1644.9	1644.4
60°	1216.2	1320.8	1465.7	1502.7	1466.2
62.5°	1064.0	1176.4	1326.8	1299.8	1174.6
65°	896.7	1037.0	1177.3	993.6	811.2
67.5°	748.2	894.4	1000.0	680.5	582.7
70°	598.7	760.0	779.7	505.0	498.2
72.5°	466.2	638.0	537.9	432.4	454.3
75°	352.8	511.9	376.6	385.3	410.4
77.5°	257.3	393.1	293.0	337.7	358.3
80°	176.9	278.3	239.0	283.8	298.0
82.5°	111.1	183.7	191.5	228.5	243.1
85°	60.8	116.5	149.5	180.5	189.2
87.5°	25.1	70.4	114.3	139.4	146.7
90°	0.5	38.8	77.2	96.9	101.5
92.5°	0.5	29.7	63.1	78.2	81.4
95°	0.5	24.2	53.0	64.4	66.3
97.5°	0.9	19.2	44.3	53.5	55.3
100°	1.4	16.0	37.0	44.8	46.2
102.5°	1.8	12.8	31.1	37.5	38.8
105°	1.8	10.5	26.1	31.5	32.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.2	6.4	15.5	19.7	20.6
115°	3.7	5.5	13.3	16.9	17.8
117.5°	3.7	4.6	11.4	14.2	15.1
120°	3.7	4.1	10.1	12.3	12.8
122.5°	3.7	3.7	8.7	11.0	11.4
125°	3.2	3.7	8.2	9.6	10.1
127.5°	3.7	3.7	7.3	8.7	9.1
130°	3.7	4.1	6.4	8.2	8.2
132.5°	4.1	4.6	5.9	7.8	7.8
135°	4.1	4.6	5.0	7.3	7.8
137.5°	4.6	4.6	4.6	6.9	7.3
140°	4.6	4.6	4.1	5.9	6.4
142.5°	4.1	4.6	4.1	5.5	5.9
145°	4.1	4.6	4.6	5.0	5.5
147.5°	4.6	4.6	4.6	4.6	5.0
150°	4.6	4.6	4.6	4.6	4.6
152.5°	4.6	4.6	4.6	4.6	4.6
155°	4.6	5.0	5.0	5.0	4.6
157.5°	4.6	5.0	5.0	5.0	5.0
160°	4.6	5.0	5.0	5.0	5.0
162.5°	5.0	5.0	5.0	5.0	5.0
165°	5.0	5.0	5.0	5.0	5.0
167.5°	5.0	5.5	5.0	5.0	5.0
170°	5.0	5.0	5.0	4.6	4.6
172.5°	5.0	5.0	5.0	4.6	4.6
175°	5.0	5.0	4.6	4.1	4.1
177.5°	5.5	5.0	4.6	4.1	3.7
180°	4.6	4.6	4.6	4.6	4.6



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - 90°-270°







107.5°	2.3	8.7	22.4	27.0	27.9
110°	2.7	7.3	18.7	22.9	23.8



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

METALUX

Report Number: SP1-2307-100-6

Test Date: 08/03/2023

Luminaire Tested: OHB-15SE-N-UNV-L850-CD

Data in this report applies to families of products including OHB-15SE-N-UNV-L850-CD.

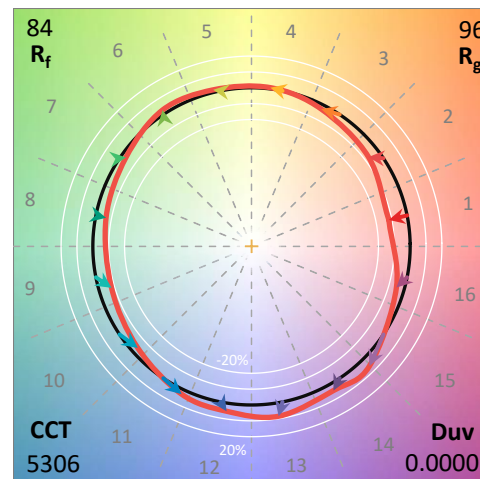
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2307-100-6
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/04/2023
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: METALUX
 Catalog Number: **OHB-15SE-N-UNV-L850-CD**
 Description: 15000 LUMEN OHB SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND NARROW LENS

LENS

Spectral Parameters

CCT (K):	5306	CRI (Ra):	84.6		
CIE u':	0.2085	R1:	83.6	R9:	15.2
CIE v':	0.4801	R2:	89.8	R10:	75.0
Duv:	0.0000	R3:	93.0	R11:	84.1
CIE x:	0.3370	R4:	84.5	R12:	63.9
CIE y:	0.3449	R5:	84.2	R13:	85.4
CIE z:	0.3182	R6:	84.7	R14:	96.4
Peak Wavelength (nm):	451	R7:	87.4		
Dominant Wavelength (nm):	566	R8:	70.0		
Purity:	4.8				
Rf:	84.3				
Rg:	96.3				



Test Conditions

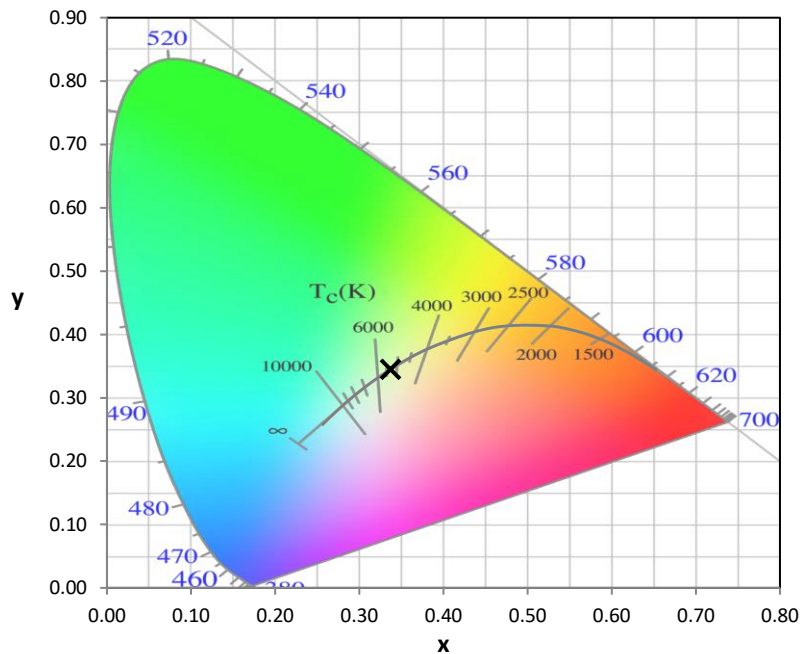
Stabilization Time: 24M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 25.7/58%
 Sphere Temperature (°C): 25.2

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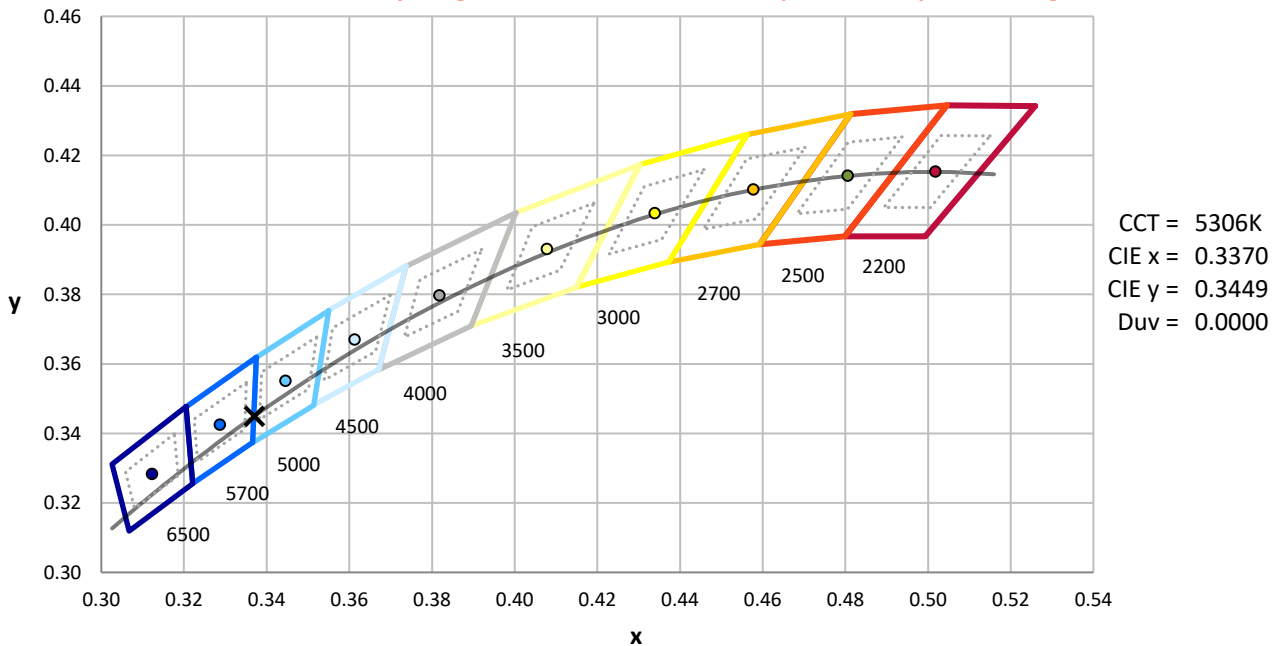
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	2/9/2023	8/9/2023
Power Meter	XITRON 2801 IN0071	11/29/2022	11/29/2023
AC Power Source	CHROMA 61603 IN0063	11/28/2022	11/28/2023
DC Power Source	AGILENT E3634A IN0208	11/28/2022	11/28/2023
Sphere Thermometer	ONSET IN0085	11/28/2022	11/28/2023
Room Thermometer	ONSET IN0046	11/28/2022	11/28/2023

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CIE 1931 Chromaticity Diagram



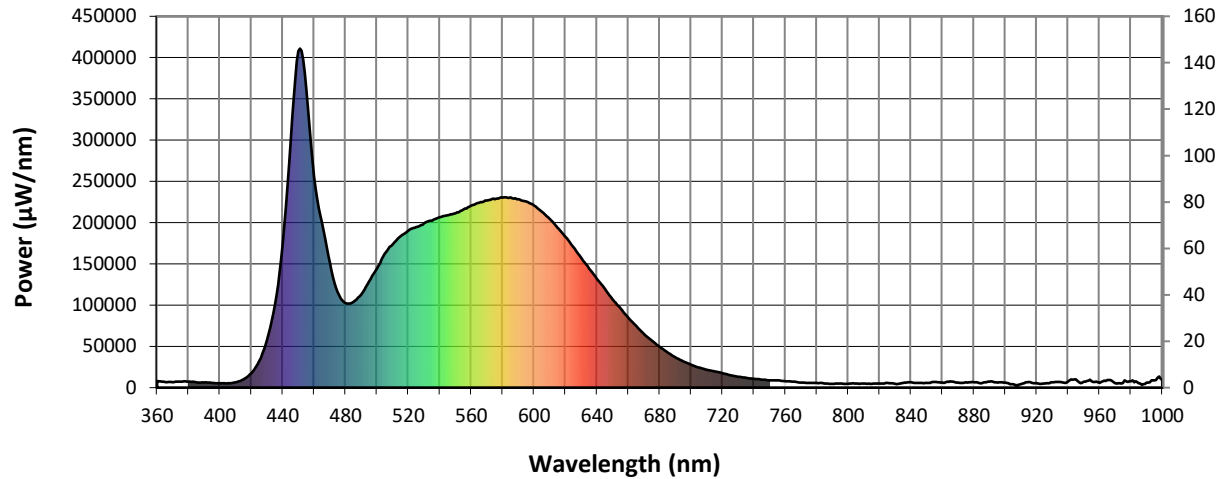
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

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Photopic Flux vs. Wavelength

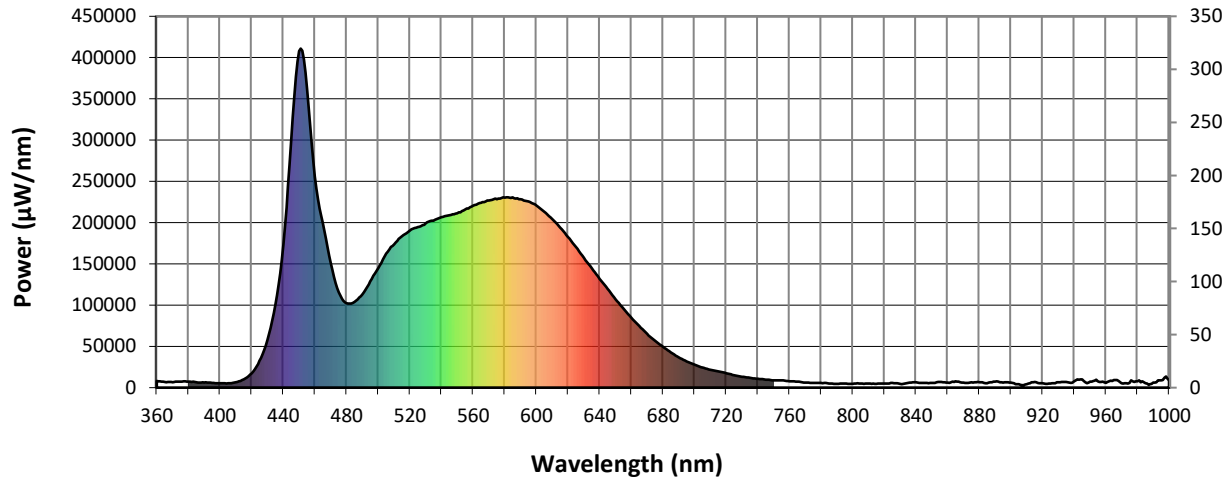


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λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)
360	7999	NR	490	113267	NR	620	182441	NR	750	8942	NR	880	6451	NR
365	6994	NR	495	128668	NR	625	170736	NR	755	8984	NR	885	5377	NR
370	6664	NR	500	144479	NR	630	157334	NR	760	7704	NR	890	7448	NR
375	7229	NR	505	162408	NR	635	144567	NR	765	7281	NR	895	6272	NR
380	7357	NR	510	173534	NR	640	131937	NR	770	6279	NR	900	6115	NR
385	6449	NR	515	183237	NR	645	119591	NR	775	5613	NR	905	4022	NR
390	6175	NR	520	190256	NR	650	106845	NR	780	5679	NR	910	4052	NR
395	5794	NR	525	194557	NR	655	95957	NR	785	5156	NR	915	6717	NR
400	5166	NR	530	199159	NR	660	84683	NR	790	4397	NR	920	5218	NR
405	5288	NR	535	202537	NR	665	74636	NR	795	5116	NR	925	4836	NR
410	6606	NR	540	206509	NR	670	64975	NR	800	4766	NR	930	6536	NR
415	9924	NR	545	209021	NR	675	56768	NR	805	5062	NR	935	6910	NR
420	17541	NR	550	211454	NR	680	49536	NR	810	4960	NR	940	7627	NR
425	32465	NR	555	215971	NR	685	42760	NR	815	4683	NR	945	10023	NR
430	57851	NR	560	220550	NR	690	36792	NR	820	5057	NR	950	7141	NR
435	100826	NR	565	224059	NR	695	31835	NR	825	5866	NR	955	7688	NR
440	173775	NR	570	226749	NR	700	27758	NR	830	4459	NR	960	5840	NR
445	298214	NR	575	228420	NR	705	24370	NR	835	5798	NR	965	9412	NR
450	407899	NR	580	230334	NR	710	21604	NR	840	6573	NR	970	5386	NR
455	361294	NR	585	230732	NR	715	19814	NR	845	5823	NR	975	5739	NR
460	255748	NR	590	228424	NR	720	17375	NR	850	5607	NR	980	7770	NR
465	199487	NR	595	225648	NR	725	15167	NR	855	6900	NR	985	5499	NR
470	150907	NR	600	220754	NR	730	13205	NR	860	6212	NR	990	6001	NR
475	115645	NR	605	213214	NR	735	11962	NR	865	7605	NR	995	8876	NR
480	102297	NR	610	204308	NR	740	10806	NR	870	6301	NR	1000	8861	NR
485	103933	NR	615	193788	NR	745	9743	NR	875	6504	NR			

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Scotopic Flux vs. Wavelength



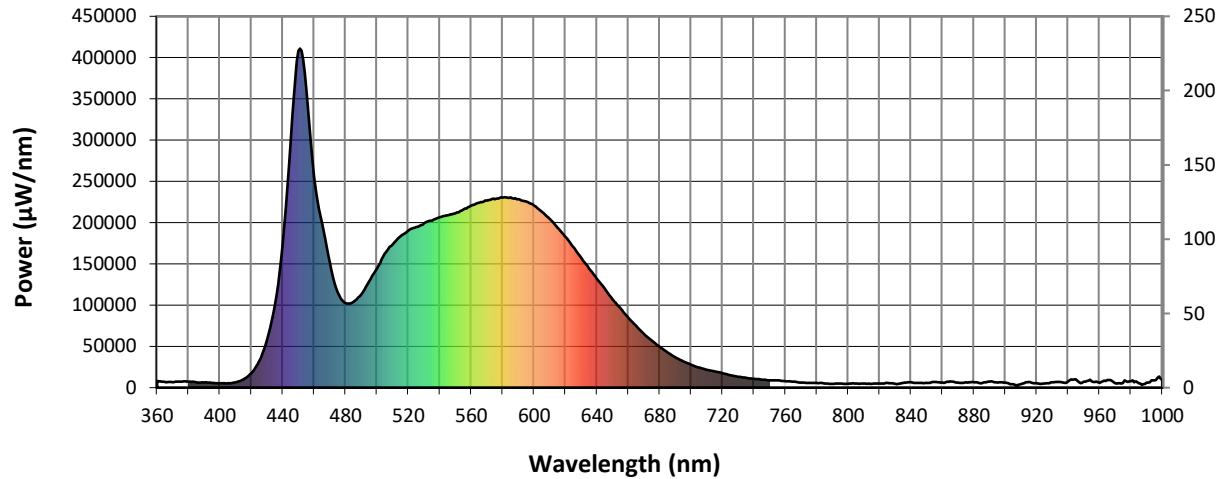
Scotopic Lumens: 29828.7

S/P: 2.04

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	7999	NR	490	113267	NR	620	182441	NR	750	8942	NR	880	6451	NR
365	6994	NR	495	128668	NR	625	170736	NR	755	8984	NR	885	5377	NR
370	6664	NR	500	144479	NR	630	157334	NR	760	7704	NR	890	7448	NR
375	7229	NR	505	162408	NR	635	144567	NR	765	7281	NR	895	6272	NR
380	7357	NR	510	173534	NR	640	131937	NR	770	6279	NR	900	6115	NR
385	6449	NR	515	183237	NR	645	119591	NR	775	5613	NR	905	4022	NR
390	6175	NR	520	190256	NR	650	106845	NR	780	5679	NR	910	4052	NR
395	5794	NR	525	194557	NR	655	95957	NR	785	5156	NR	915	6717	NR
400	5166	NR	530	199159	NR	660	84683	NR	790	4397	NR	920	5218	NR
405	5288	NR	535	202537	NR	665	74636	NR	795	5116	NR	925	4836	NR
410	6606	NR	540	206509	NR	670	64975	NR	800	4766	NR	930	6536	NR
415	9924	NR	545	209021	NR	675	56768	NR	805	5062	NR	935	6910	NR
420	17541	NR	550	211454	NR	680	49536	NR	810	4960	NR	940	7627	NR
425	32465	NR	555	215971	NR	685	42760	NR	815	4683	NR	945	10023	NR
430	57851	NR	560	220550	NR	690	36792	NR	820	5057	NR	950	7141	NR
435	100826	NR	565	224059	NR	695	31835	NR	825	5866	NR	955	7688	NR
440	173775	NR	570	226749	NR	700	27758	NR	830	4459	NR	960	5840	NR
445	298214	NR	575	228420	NR	705	24370	NR	835	5798	NR	965	9412	NR
450	407899	NR	580	230334	NR	710	21604	NR	840	6573	NR	970	5386	NR
455	361294	NR	585	230732	NR	715	19814	NR	845	5823	NR	975	5739	NR
460	255748	NR	590	228424	NR	720	17375	NR	850	5607	NR	980	7770	NR
465	199487	NR	595	225648	NR	725	15167	NR	855	6900	NR	985	5499	NR
470	150907	NR	600	220754	NR	730	13205	NR	860	6212	NR	990	6001	NR
475	115645	NR	605	213214	NR	735	11962	NR	865	7605	NR	995	8876	NR
480	102297	NR	610	204308	NR	740	10806	NR	870	6301	NR	1000	8861	NR
485	103933	NR	615	193788	NR	745	9743	NR	875	6504	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: 12729.3 M/P: 0.87

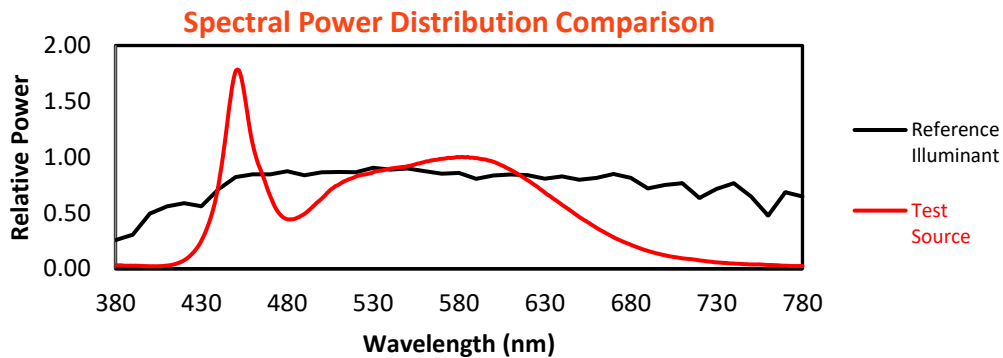
λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)
360	7999	NR	490	113267	NR	620	182441	NR	750	8942	NR	880	6451	NR
365	6994	NR	495	128668	NR	625	170736	NR	755	8984	NR	885	5377	NR
370	6664	NR	500	144479	NR	630	157334	NR	760	7704	NR	890	7448	NR
375	7229	NR	505	162408	NR	635	144567	NR	765	7281	NR	895	6272	NR
380	7357	NR	510	173534	NR	640	131937	NR	770	6279	NR	900	6115	NR
385	6449	NR	515	183237	NR	645	119591	NR	775	5613	NR	905	4022	NR
390	6175	NR	520	190256	NR	650	106845	NR	780	5679	NR	910	4052	NR
395	5794	NR	525	194557	NR	655	95957	NR	785	5156	NR	915	6717	NR
400	5166	NR	530	199159	NR	660	84683	NR	790	4397	NR	920	5218	NR
405	5288	NR	535	202537	NR	665	74636	NR	795	5116	NR	925	4836	NR
410	6606	NR	540	206509	NR	670	64975	NR	800	4766	NR	930	6536	NR
415	9924	NR	545	209021	NR	675	56768	NR	805	5062	NR	935	6910	NR
420	17541	NR	550	211454	NR	680	49536	NR	810	4960	NR	940	7627	NR
425	32465	NR	555	215971	NR	685	42760	NR	815	4683	NR	945	10023	NR
430	57851	NR	560	220550	NR	690	36792	NR	820	5057	NR	950	7141	NR
435	100826	NR	565	224059	NR	695	31835	NR	825	5866	NR	955	7688	NR
440	173775	NR	570	226749	NR	700	27758	NR	830	4459	NR	960	5840	NR
445	298214	NR	575	228420	NR	705	24370	NR	835	5798	NR	965	9412	NR
450	407899	NR	580	230334	NR	710	21604	NR	840	6573	NR	970	5386	NR
455	361294	NR	585	230732	NR	715	19814	NR	845	5823	NR	975	5739	NR
460	255748	NR	590	228424	NR	720	17375	NR	850	5607	NR	980	7770	NR
465	199487	NR	595	225648	NR	725	15167	NR	855	6900	NR	985	5499	NR
470	150907	NR	600	220754	NR	730	13205	NR	860	6212	NR	990	6001	NR
475	115645	NR	605	213214	NR	735	11962	NR	865	7605	NR	995	8876	NR
480	102297	NR	610	204308	NR	740	10806	NR	870	6301	NR	1000	8861	NR
485	103933	NR	615	193788	NR	745	9743	NR	875	6504	NR			

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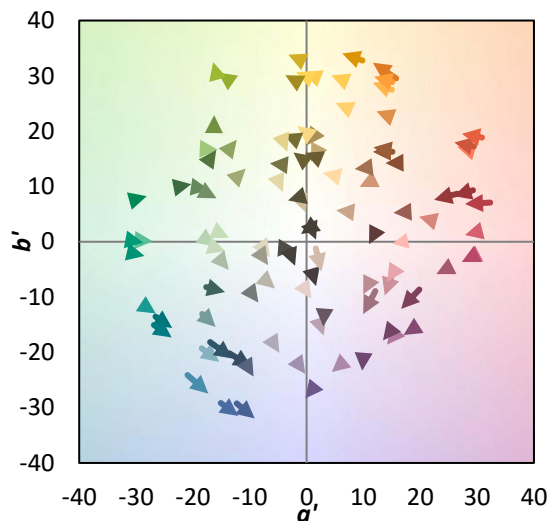
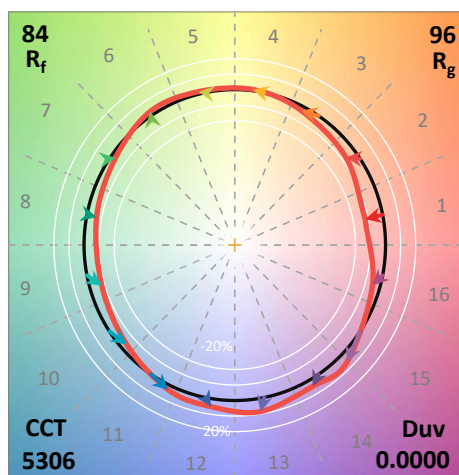
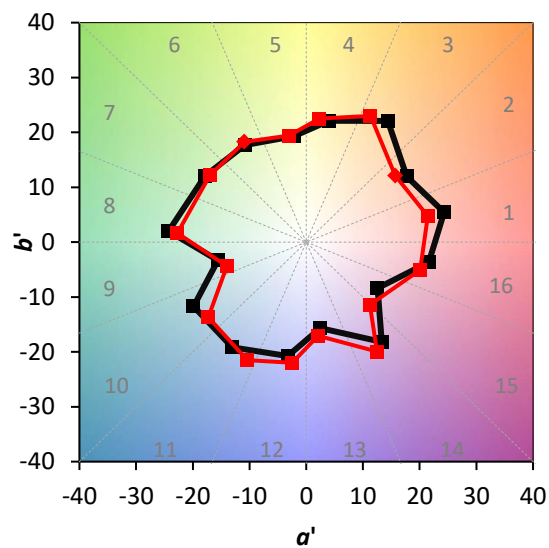
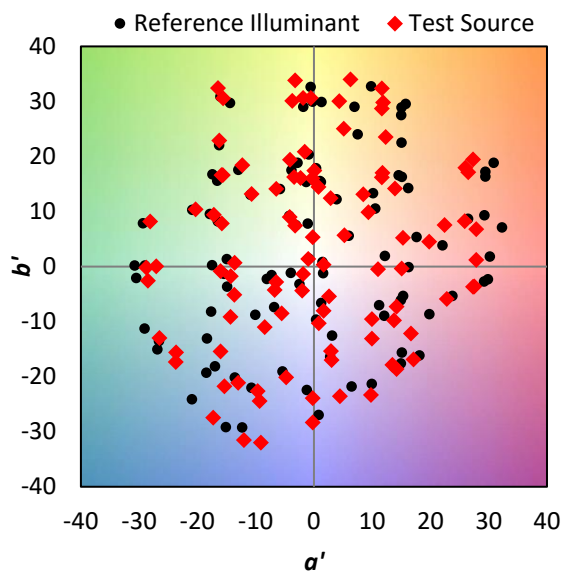
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Summary

$R_f = 84.3$
 $R_g = 96.3$
 $CIE R_a = 84.6$
 $R_9 = 15.2$



Color Vector Graphics

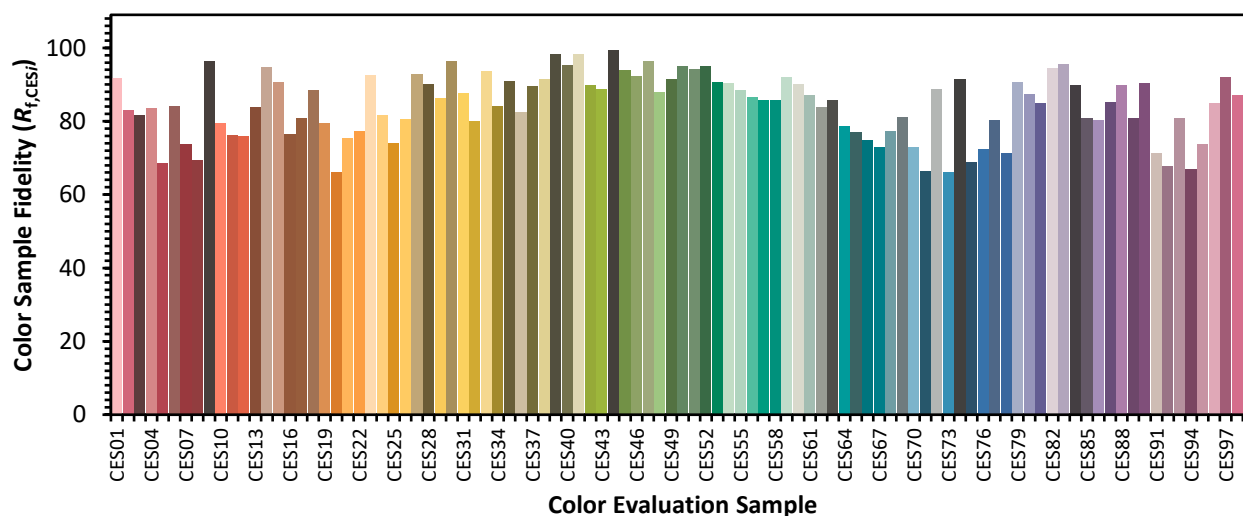


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Individual Sample Fidelity Index ($R_{f,i}$)

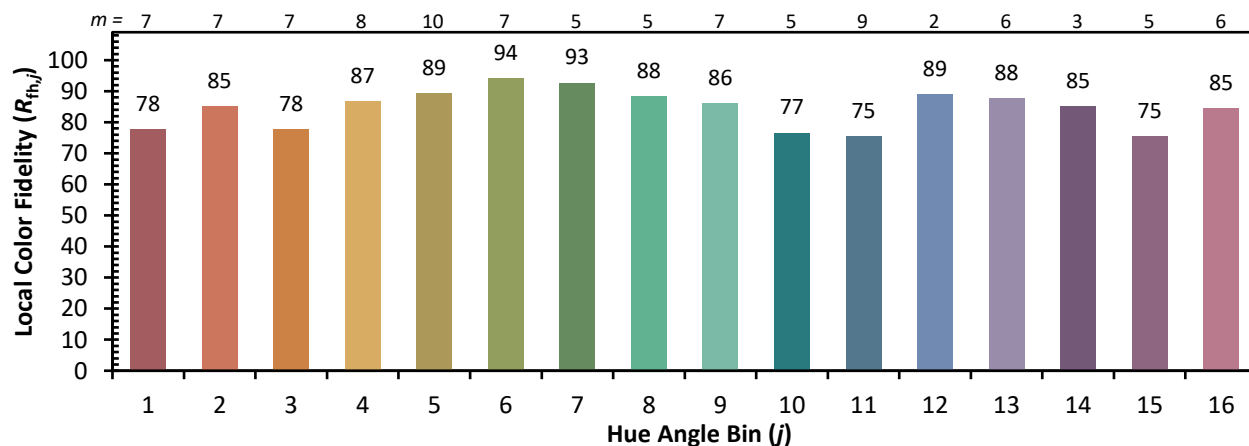
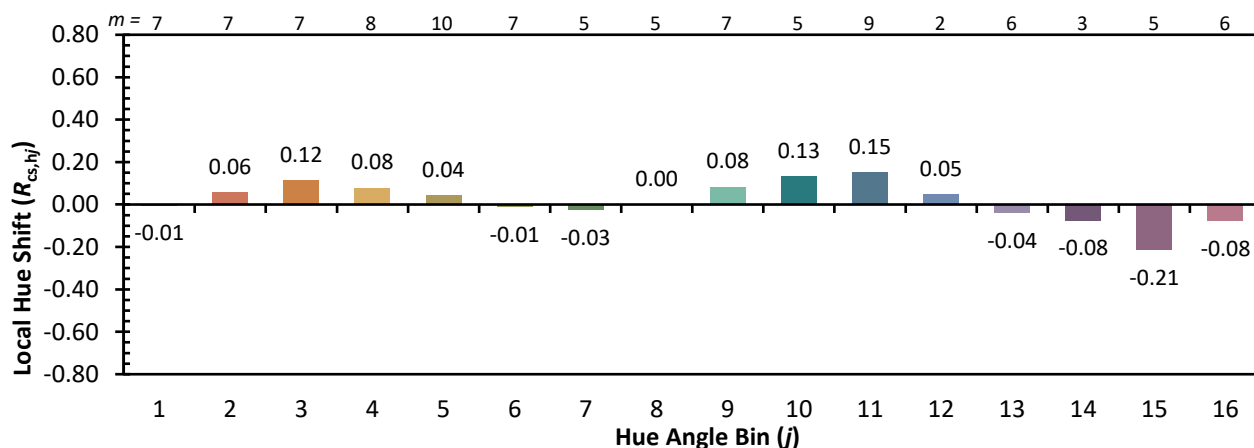
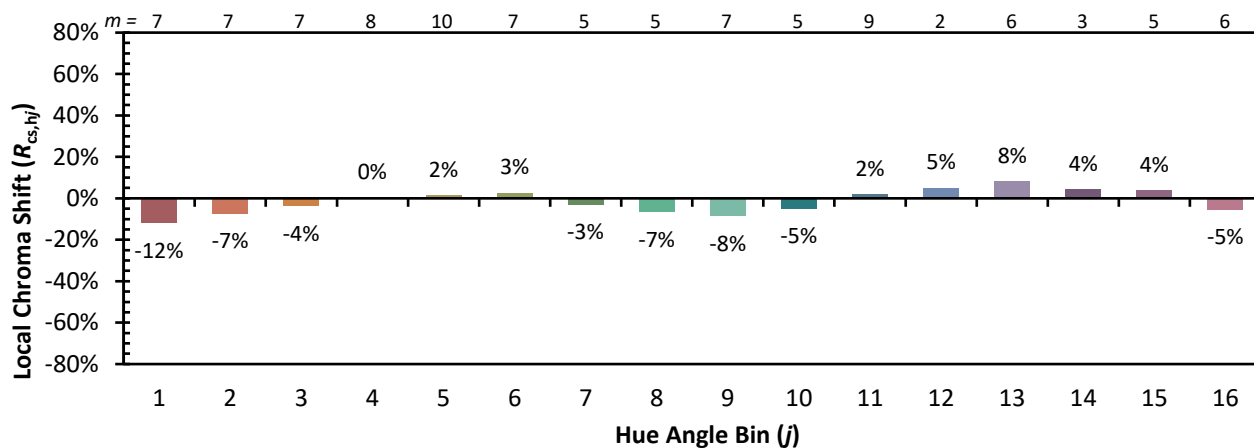
CES01 = 85	CES26 = 81	CES51 = 94	CES76 = 73
CES02 = 60	CES27 = 93	CES52 = 95	CES77 = 80
CES03 = 30	CES28 = 90	CES53 = 91	CES78 = 71
CES04 = 69	CES29 = 86	CES54 = 90	CES79 = 91
CES05 = 47	CES30 = 96	CES55 = 88	CES80 = 87
CES06 = 50	CES31 = 88	CES56 = 87	CES81 = 85
CES07 = 39	CES32 = 80	CES57 = 86	CES82 = 95
CES08 = 39	CES33 = 94	CES58 = 86	CES83 = 96
CES09 = 29	CES34 = 84	CES59 = 92	CES84 = 90
CES10 = 73	CES35 = 91	CES60 = 90	CES85 = 81
CES11 = 56	CES36 = 83	CES61 = 87	CES86 = 80
CES12 = 62	CES37 = 90	CES62 = 84	CES87 = 85
CES13 = 42	CES38 = 91	CES63 = 86	CES88 = 90
CES14 = 74	CES39 = 98	CES64 = 79	CES89 = 81
CES15 = 70	CES40 = 95	CES65 = 77	CES90 = 90
CES16 = 46	CES41 = 98	CES66 = 75	CES91 = 71
CES17 = 48	CES42 = 90	CES67 = 73	CES92 = 68
CES18 = 55	CES43 = 89	CES68 = 77	CES93 = 81
CES19 = 70	CES44 = 99	CES69 = 81	CES94 = 67
CES20 = 64	CES45 = 94	CES70 = 73	CES95 = 74
CES21 = 85	CES46 = 92	CES71 = 66	CES96 = 85
CES22 = 77	CES47 = 96	CES72 = 89	CES97 = 92
CES23 = 91	CES48 = 88	CES73 = 66	CES98 = 87
CES24 = 90	CES49 = 92	CES74 = 91	CES99 = 78
CES25 = 71	CES50 = 95	CES75 = 69	



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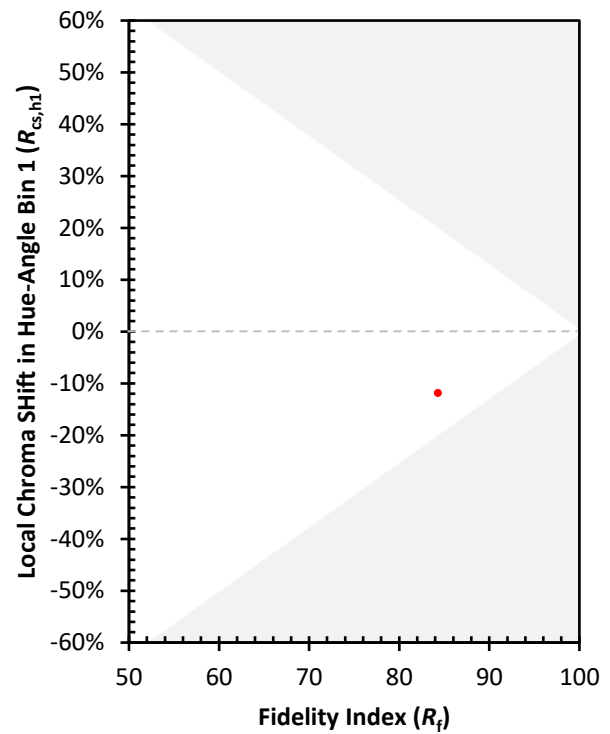
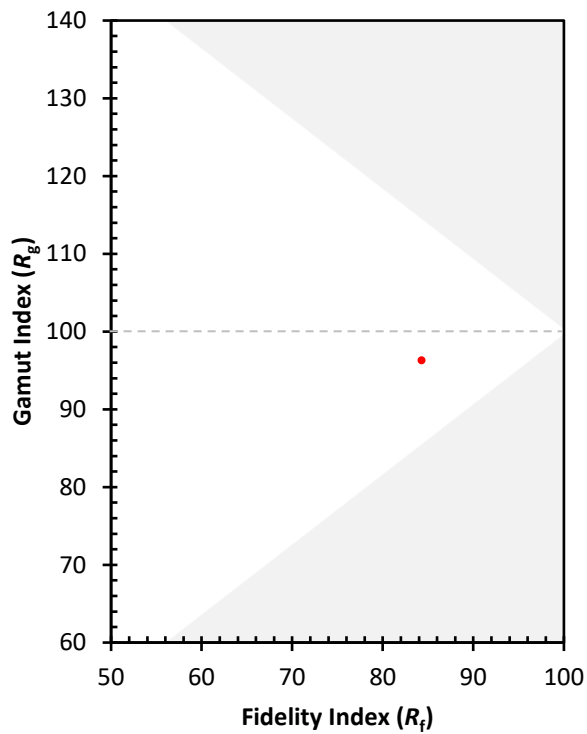
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)