

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: P828581

Luminaire Tested: **OHBL-15SE-MCL-UNV-L950-CD-UPL15**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828581
REPORT IS A COMBINATION OF REPORTS P826114 AND G3-2310-221-10
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-15SE-MCL-UNV-L950-CD-UPL15
Description:
Light Source: -
Ballast/Driver: -

Summary

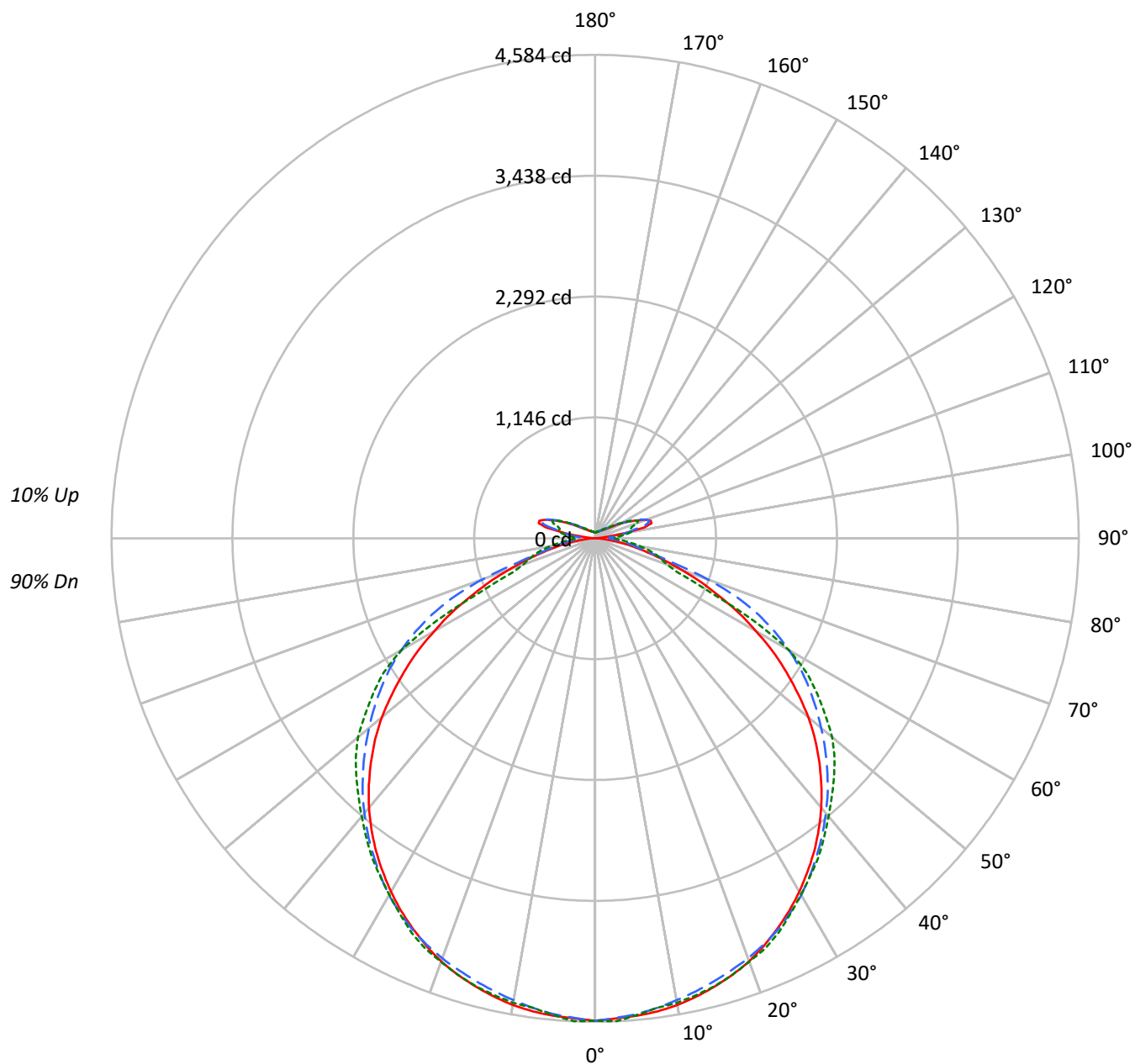
Lumens per Lamp: N/A
Luminaire Lumens: 14252.1 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 97.3
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: P828581

CATALOG NUMBER: OHBL-15SE-MCL-UNV-L950-CD-UPL15

Luminous Intensity Polar Plot





TEST NUMBER: P828581

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93
1	107	102	98	94	103	99	95	92	93	90	87	87	85	83	82	80	78
2	97	89	83	77	94	87	81	76	81	77	72	77	73	69	72	69	66
3	89	79	71	64	85	76	69	63	72	66	61	68	63	58	64	60	56
4	81	70	61	55	78	68	60	54	64	57	52	60	55	50	57	52	48
5	75	62	53	47	72	60	52	46	57	50	45	54	48	43	51	46	42
6	69	56	47	41	66	54	46	40	52	44	39	49	43	38	46	41	37
7	64	51	42	36	62	49	41	36	47	40	35	45	38	34	42	37	33
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	33	29
9	55	42	34	29	53	41	34	28	39	33	28	38	31	27	36	30	26
10	52	39	31	26	50	38	31	26	36	30	25	35	29	25	33	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14884	14884	14884
5°	14600	14581	14761
10°	14365	14274	14659
15°	14093	14026	14624
20°	13821	13838	14559
25°	13469	13648	14498
30°	13099	13396	14296
35°	12689	13047	14221
40°	12208	12686	14099
45°	11614	12277	14103
50°	10882	11819	14105
55°	9860	11354	13710
60°	8612	10723	12828
65°	7093	9676	8258
70°	5411	7374	6117
75°	3752	4232	6412
80°	2306	3340	6464
85°	1034	2788	6798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.4	3.0
10°-20°	1237.0	8.7
20°-30°	1889.3	13.3
30°-40°	2292.4	16.1
40°-50°	2402.6	16.9
50°-60°	2177.1	15.3
60°-70°	1459.7	10.2
70°-80°	655.5	4.6
80°-90°	241.2	1.7
90°-100°	198.2	1.4
100°-110°	472.5	3.3
110°-120°	393.9	2.8
120°-130°	190.3	1.3
130°-140°	96.9	0.7
140°-150°	56.8	0.4
150°-160°	33.8	0.2
160°-170°	17.9	0.1
170°-180°	5.5	0.0
0°-30°	3557.7	25.0
0°-40°	5850.1	41.0
0°-60°	10429.9	73.2
0°-90°	12786.3	89.7
90°-120°	1064.6	7.5
90°-150°	1408.6	9.9
90°-180°	1466.0	10.3
0°-180°	14252.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4575	4575	4575	4575	4575	
5°	4545	4561	4530	4543	4537	432
15°	4398	4381	4350	4388	4393	1242
25°	4086	4068	4096	4134	4122	1883
35°	3621	3630	3667	3706	3691	2263
45°	3005	3054	3111	3190	3200	2315
55°	2211	2318	2476	2575	2569	1974
65°	1298	1501	1704	1438	1174	1293
75°	511	741	545	558	594	558
85°	88	169	216	261	274	107
90°	3	75	137	173	184	7
95°	25	98	170	217	239	88
105°	553	558	500	373	348	524
115°	384	387	402	405	399	388
125°	188	199	211	211	211	178
135°	115	119	122	127	129	91
145°	85	88	89	92	92	54
155°	70	72	73	73	74	33
165°	62	62	63	63	63	18
175°	57	57	56	56	56	5
180°	56	56	56	56	56	



TEST NUMBER: P828581

CATALOG NUMBER: OHBL-15SE-MCL-UNV-L950-CD-UPL15

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4575.1	4575.1	4575.1	4575.1	4575.1
2.5°	4556.6	4575.7	4551.9	4577.7	4584.3
5°	4545.3	4561.2	4529.5	4543.4	4537.4
7.5°	4524.8	4530.1	4492.4	4503.6	4491.7
10°	4494.4	4491.7	4447.4	4469.2	4471.9
12.5°	4449.4	4441.5	4401.7	4434.9	4435.5
15°	4397.8	4380.6	4349.5	4387.9	4393.1
17.5°	4338.3	4315.7	4295.2	4344.9	4337.0
20°	4268.8	4242.4	4238.4	4292.6	4272.8
22.5°	4182.8	4162.3	4171.6	4223.2	4210.5
25°	4085.5	4067.7	4096.1	4133.9	4121.9
27.5°	3983.0	3972.4	4004.8	4034.0	4010.8
30°	3870.6	3864.6	3907.6	3931.5	3902.3
32.5°	3748.2	3750.2	3791.2	3823.6	3796.5
35°	3621.1	3629.8	3666.8	3705.8	3691.3
37.5°	3481.6	3500.7	3537.9	3582.1	3566.9
40°	3334.1	3361.9	3402.8	3456.5	3442.6
42.5°	3174.6	3209.7	3262.6	3322.1	3320.8
45°	3005.3	3054.3	3111.1	3190.5	3200.4
47.5°	2829.3	2884.2	2956.4	3062.2	3077.4
50°	2638.2	2706.9	2796.9	2923.9	2933.2
52.5°	2425.1	2519.0	2638.2	2759.9	2748.7
55°	2211.4	2317.9	2476.1	2575.3	2569.4
57.5°	1998.4	2118.2	2310.0	2380.8	2380.2
60°	1760.3	1911.8	2121.5	2175.1	2122.1
62.5°	1540.0	1702.7	1920.4	1881.4	1700.1
65°	1297.9	1501.0	1704.1	1438.1	1174.2
67.5°	1082.9	1294.6	1447.5	985.0	843.4
70°	866.6	1100.1	1128.5	730.9	721.0
72.5°	674.8	923.5	778.6	625.8	657.6
75°	510.7	740.9	545.1	557.7	594.0
77.5°	372.5	568.9	424.0	488.9	518.6
80°	256.1	402.9	346.0	410.8	431.3
82.5°	160.8	266.0	277.2	330.7	352.0
85°	88.0	168.7	216.3	261.3	273.9
87.5°	36.3	101.9	165.4	201.8	212.3
90°	3.3	75.4	137.0	173.3	184.2
92.5°	9.4	67.4	131.3	168.8	182.1
95°	25.0	97.6	169.8	216.8	239.4
97.5°	145.6	190.4	241.5	281.7	300.0
100°	295.0	339.6	313.5	337.9	345.9
102.5°	473.8	474.1	381.4	356.8	353.6
105°	553.0	557.7	500.3	372.6	347.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	447.2	457.9	463.3	453.6	439.2
115°	384.4	387.0	401.8	405.3	398.8
117.5°	330.5	330.0	343.4	345.7	345.3
120°	276.6	280.7	290.1	291.7	291.5
122.5°	229.6	236.6	248.2	248.9	248.7
125°	188.1	199.2	211.0	211.3	211.0
127.5°	161.8	167.9	180.1	182.1	181.0
130°	140.9	145.9	154.5	158.0	158.0
132.5°	126.8	130.9	137.3	140.8	141.6
135°	114.6	118.8	122.1	127.1	128.6
137.5°	106.6	108.3	111.8	116.0	117.5
140°	97.9	100.5	102.4	106.0	107.6
142.5°	91.1	93.6	94.6	98.3	99.0
145°	85.0	87.5	89.2	91.6	92.2
147.5°	81.4	83.1	84.9	84.9	86.4
150°	77.0	78.8	79.6	80.5	80.5
152.5°	73.6	74.4	76.2	76.2	77.0
155°	70.1	71.6	73.4	73.4	73.6
157.5°	67.5	69.0	69.9	70.8	70.8
160°	64.9	66.4	67.3	67.3	68.2
162.5°	63.8	64.7	64.7	65.6	65.6
165°	62.1	62.1	62.9	62.9	62.9
167.5°	60.3	60.9	61.2	61.2	62.1
170°	58.6	59.5	59.5	58.8	59.6
172.5°	57.7	57.7	58.6	57.9	57.9
175°	56.9	56.9	56.2	56.3	56.3
177.5°	56.6	56.9	56.2	55.5	54.9
180°	56.2	56.2	56.2	56.2	56.2



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - 90°-270°







107.5°	553.7	563.8	542.8	432.0	369.9
110°	511.8	522.7	516.6	478.2	425.7



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

Report Prepared for

Cooper Lighting Solutions

METALUX

Report Number: SP1-2307-100-9

Test Date: 08/01/2023

Luminaire Tested: OHB-15SE-N-UNV-L950-CD

Data in this report applies to families of products including OHB-15SE-N-UNV-L950-CD.

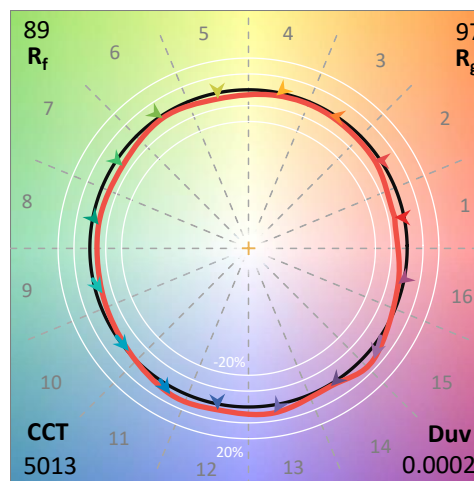
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2307-100-9
 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-L950-CD**
 Description: 15000 LUMEN OHB SE LED LUMINAIRE WITH 90CRI, 5000K LEDS AND NARROW LENS

LENS

Spectral Parameters

CCT (K):	5013	CRI (Ra):	92.0		
CIE u':	0.2111	R1:	92.6	R9:	62.7
CIE v':	0.4847	R2:	96.7	R10:	90.0
Duv:	0.0002	R3:	96.5	R11:	89.8
CIE x:	0.3447	R4:	90.1	R12:	69.9
CIE y:	0.3517	R5:	91.1	R13:	94.5
CIE z:	0.3036	R6:	92.0	R14:	98.3
Peak Wavelength (nm):	455	R7:	92.4		
Dominant Wavelength (nm):	572	R8:	84.9		
Purity:	9.1				
Rf:	88.9				
Rg:	97.2				



Test Conditions

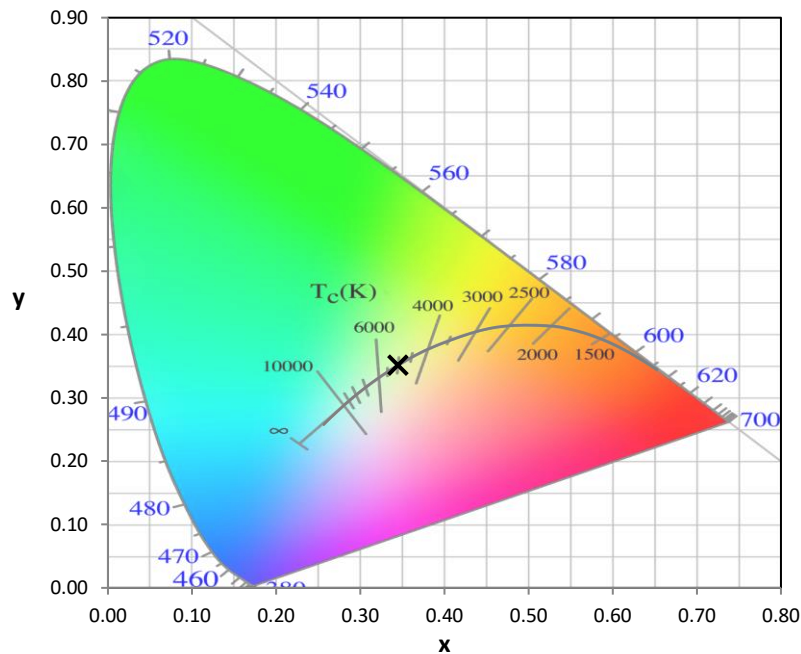
Stabilization Time: 26M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 25.7/57%
 Sphere Temperature (°C): 25.2

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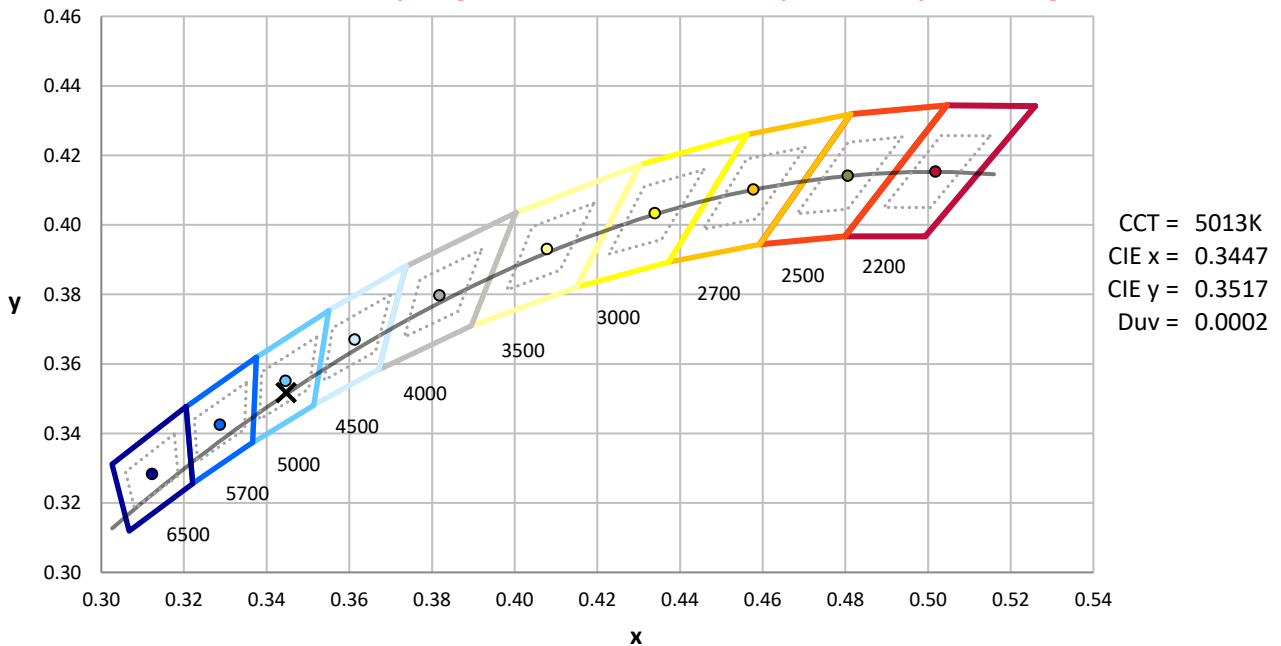
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	2/9/2023	8/9/2023
Power Meter	XITRON 2801 IN0071	11/29/2022	11/29/2023
AC Power Source	CHROMA 61603 IN0063	11/28/2022	11/28/2023
DC Power Source	AGILENT E3634A IN0208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



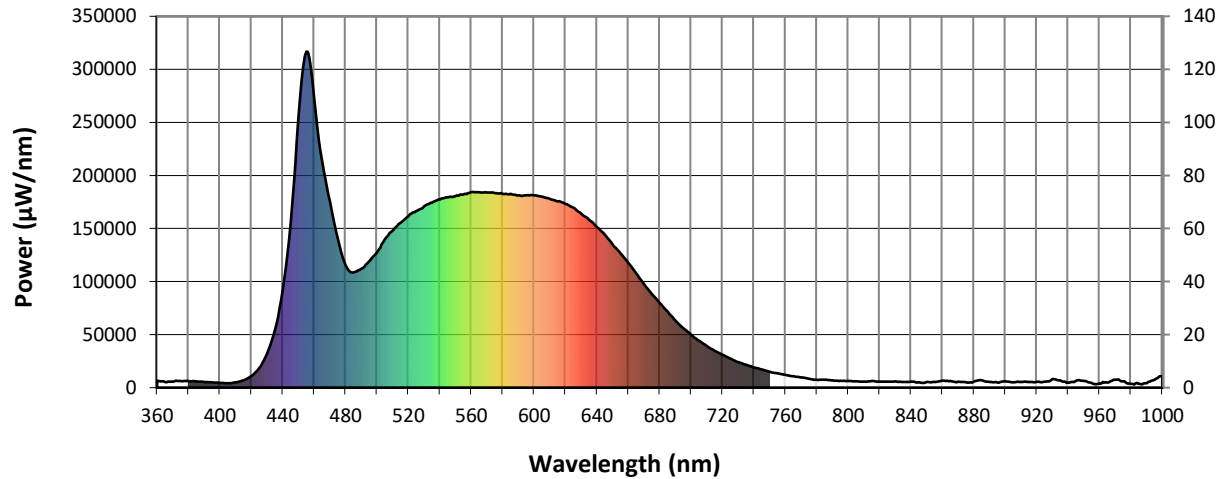
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

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Photopic Flux vs. Wavelength

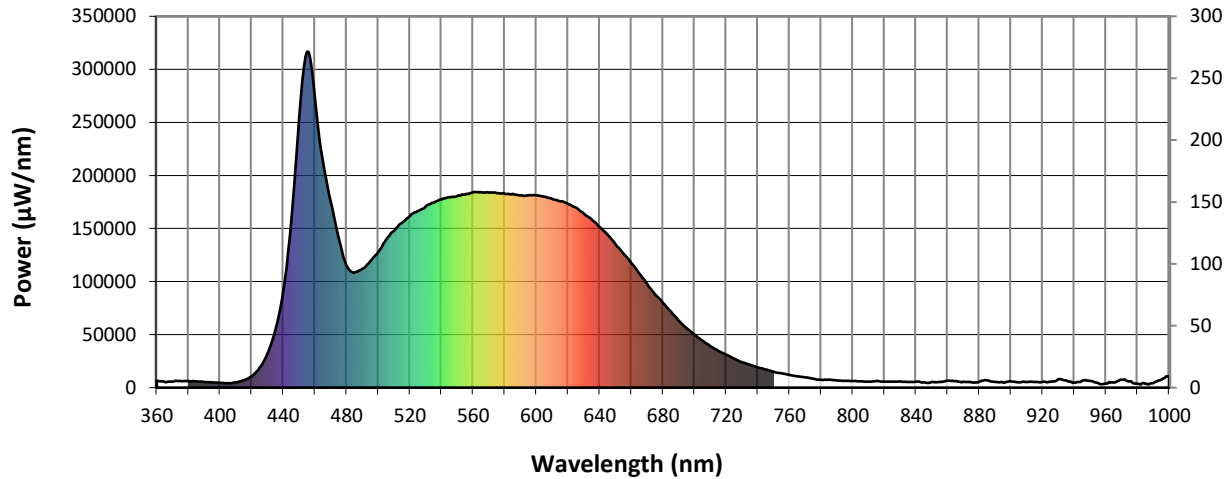


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λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)
360	6694	NR	490	112019	NR	620	173132	NR	750	14981	NR	880	5536	NR
365	5354	NR	495	119136	NR	625	169860	NR	755	13480	NR	885	6938	NR
370	5722	NR	500	127627	NR	630	163982	NR	760	11900	NR	890	5411	NR
375	6251	NR	505	139687	NR	635	158304	NR	765	10671	NR	895	4784	NR
380	6177	NR	510	148127	NR	640	151433	NR	770	9643	NR	900	5872	NR
385	5889	NR	515	155327	NR	645	144044	NR	775	8310	NR	905	5214	NR
390	5252	NR	520	161724	NR	650	134971	NR	780	7378	NR	910	5425	NR
395	5012	NR	525	166350	NR	655	126523	NR	785	7348	NR	915	5372	NR
400	4505	NR	530	170827	NR	660	117624	NR	790	6731	NR	920	5263	NR
405	4163	NR	535	174287	NR	665	107737	NR	795	6603	NR	925	5581	NR
410	4931	NR	540	177402	NR	670	97796	NR	800	6333	NR	930	7934	NR
415	6887	NR	545	179468	NR	675	88146	NR	805	5919	NR	935	6835	NR
420	10750	NR	550	180621	NR	680	80008	NR	810	5757	NR	940	4871	NR
425	18574	NR	555	182239	NR	685	71588	NR	815	6226	NR	945	6554	NR
430	31943	NR	560	184077	NR	690	63388	NR	820	5694	NR	950	6239	NR
435	54504	NR	565	184113	NR	695	56106	NR	825	5621	NR	955	4562	NR
440	91570	NR	570	183843	NR	700	49976	NR	830	5832	NR	960	3863	NR
445	155007	NR	575	183242	NR	705	44326	NR	835	5478	NR	965	4898	NR
450	253466	NR	580	182759	NR	710	39116	NR	840	5675	NR	970	7576	NR
455	316705	NR	585	182781	NR	715	34755	NR	845	4960	NR	975	6056	NR
460	273954	NR	590	181075	NR	720	30900	NR	850	5274	NR	980	3439	NR
465	214019	NR	595	181315	NR	725	27349	NR	855	5470	NR	985	3623	NR
470	175153	NR	600	181289	NR	730	23954	NR	860	6539	NR	990	4301	NR
475	140894	NR	605	180053	NR	735	21526	NR	865	6378	NR	995	7368	NR
480	115223	NR	610	177907	NR	740	18965	NR	870	5702	NR	1000	10668	NR
485	108577	NR	615	175575	NR	745	17153	NR	875	4933	NR			

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Scotopic Flux vs. Wavelength



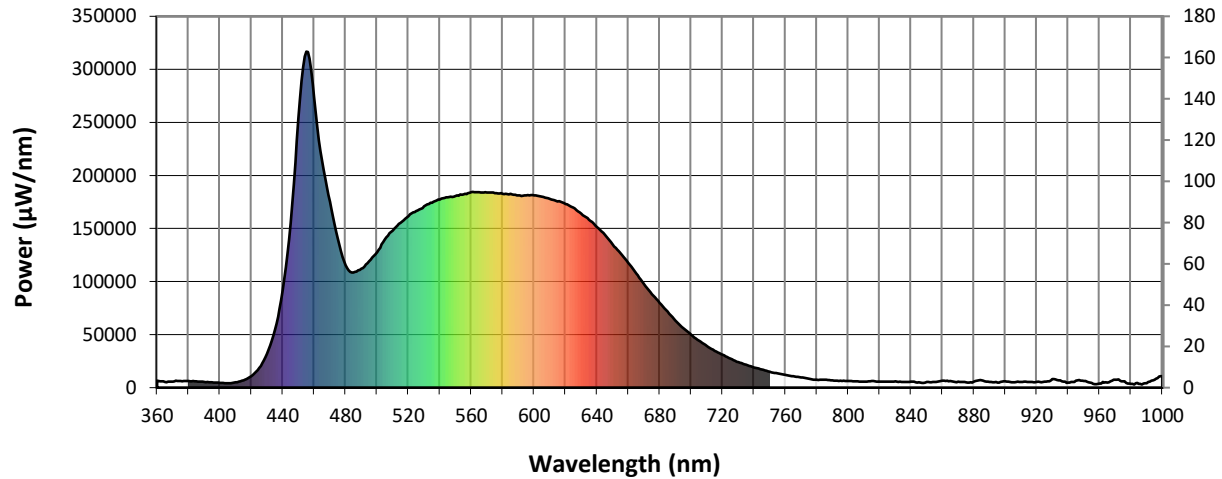
Scotopic Lumens: 26039.5

S/P: 2.08

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	6694	NR	490	112019	NR	620	173132	NR	750	14981	NR	880	5536	NR
365	5354	NR	495	119136	NR	625	169860	NR	755	13480	NR	885	6938	NR
370	5722	NR	500	127627	NR	630	163982	NR	760	11900	NR	890	5411	NR
375	6251	NR	505	139687	NR	635	158304	NR	765	10671	NR	895	4784	NR
380	6177	NR	510	148127	NR	640	151433	NR	770	9643	NR	900	5872	NR
385	5889	NR	515	155327	NR	645	144044	NR	775	8310	NR	905	5214	NR
390	5252	NR	520	161724	NR	650	134971	NR	780	7378	NR	910	5425	NR
395	5012	NR	525	166350	NR	655	126523	NR	785	7348	NR	915	5372	NR
400	4505	NR	530	170827	NR	660	117624	NR	790	6731	NR	920	5263	NR
405	4163	NR	535	174287	NR	665	107737	NR	795	6603	NR	925	5581	NR
410	4931	NR	540	177402	NR	670	97796	NR	800	6333	NR	930	7934	NR
415	6887	NR	545	179468	NR	675	88146	NR	805	5919	NR	935	6835	NR
420	10750	NR	550	180621	NR	680	80008	NR	810	5757	NR	940	4871	NR
425	18574	NR	555	182239	NR	685	71588	NR	815	6226	NR	945	6554	NR
430	31943	NR	560	184077	NR	690	63388	NR	820	5694	NR	950	6239	NR
435	54504	NR	565	184113	NR	695	56106	NR	825	5621	NR	955	4562	NR
440	91570	NR	570	183843	NR	700	49976	NR	830	5832	NR	960	3863	NR
445	155007	NR	575	183242	NR	705	44326	NR	835	5478	NR	965	4898	NR
450	253466	NR	580	182759	NR	710	39116	NR	840	5675	NR	970	7576	NR
455	316705	NR	585	182781	NR	715	34755	NR	845	4960	NR	975	6056	NR
460	273954	NR	590	181075	NR	720	30900	NR	850	5274	NR	980	3439	NR
465	214019	NR	595	181315	NR	725	27349	NR	855	5470	NR	985	3623	NR
470	175153	NR	600	181289	NR	730	23954	NR	860	6539	NR	990	4301	NR
475	140894	NR	605	180053	NR	735	21526	NR	865	6378	NR	995	7368	NR
480	115223	NR	610	177907	NR	740	18965	NR	870	5702	NR	1000	10668	NR
485	108577	NR	615	175575	NR	745	17153	NR	875	4933	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: 11248.3 M/P: 0.9

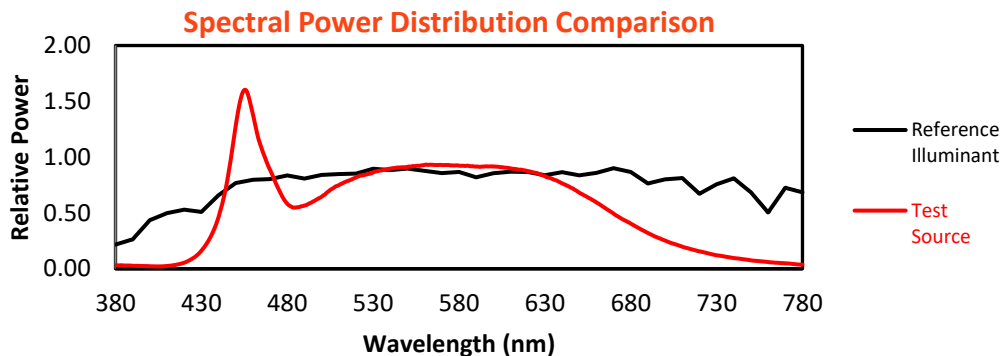
λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)
360	6694	NR	490	112019	NR	620	173132	NR	750	14981	NR	880	5536	NR
365	5354	NR	495	119136	NR	625	169860	NR	755	13480	NR	885	6938	NR
370	5722	NR	500	127627	NR	630	163982	NR	760	11900	NR	890	5411	NR
375	6251	NR	505	139687	NR	635	158304	NR	765	10671	NR	895	4784	NR
380	6177	NR	510	148127	NR	640	151433	NR	770	9643	NR	900	5872	NR
385	5889	NR	515	155327	NR	645	144044	NR	775	8310	NR	905	5214	NR
390	5252	NR	520	161724	NR	650	134971	NR	780	7378	NR	910	5425	NR
395	5012	NR	525	166350	NR	655	126523	NR	785	7348	NR	915	5372	NR
400	4505	NR	530	170827	NR	660	117624	NR	790	6731	NR	920	5263	NR
405	4163	NR	535	174287	NR	665	107737	NR	795	6603	NR	925	5581	NR
410	4931	NR	540	177402	NR	670	97796	NR	800	6333	NR	930	7934	NR
415	6887	NR	545	179468	NR	675	88146	NR	805	5919	NR	935	6835	NR
420	10750	NR	550	180621	NR	680	80008	NR	810	5757	NR	940	4871	NR
425	18574	NR	555	182239	NR	685	71588	NR	815	6226	NR	945	6554	NR
430	31943	NR	560	184077	NR	690	63388	NR	820	5694	NR	950	6239	NR
435	54504	NR	565	184113	NR	695	56106	NR	825	5621	NR	955	4562	NR
440	91570	NR	570	183843	NR	700	49976	NR	830	5832	NR	960	3863	NR
445	155007	NR	575	183242	NR	705	44326	NR	835	5478	NR	965	4898	NR
450	253466	NR	580	182759	NR	710	39116	NR	840	5675	NR	970	7576	NR
455	316705	NR	585	182781	NR	715	34755	NR	845	4960	NR	975	6056	NR
460	273954	NR	590	181075	NR	720	30900	NR	850	5274	NR	980	3439	NR
465	214019	NR	595	181315	NR	725	27349	NR	855	5470	NR	985	3623	NR
470	175153	NR	600	181289	NR	730	23954	NR	860	6539	NR	990	4301	NR
475	140894	NR	605	180053	NR	735	21526	NR	865	6378	NR	995	7368	NR
480	115223	NR	610	177907	NR	740	18965	NR	870	5702	NR	1000	10668	NR
485	108577	NR	615	175575	NR	745	17153	NR	875	4933	NR			

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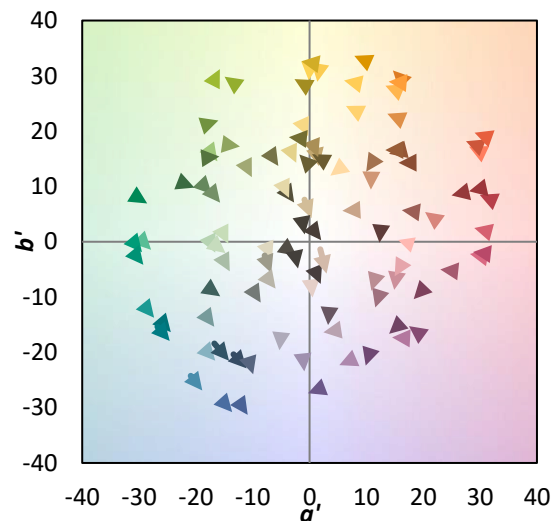
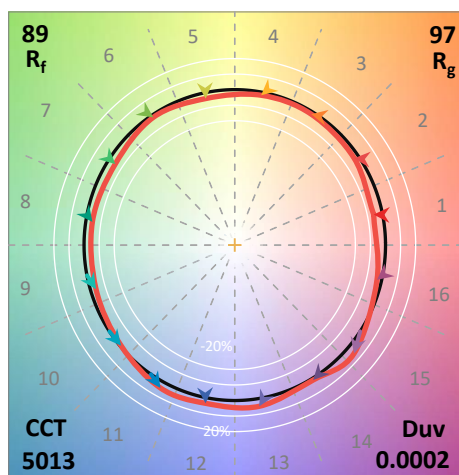
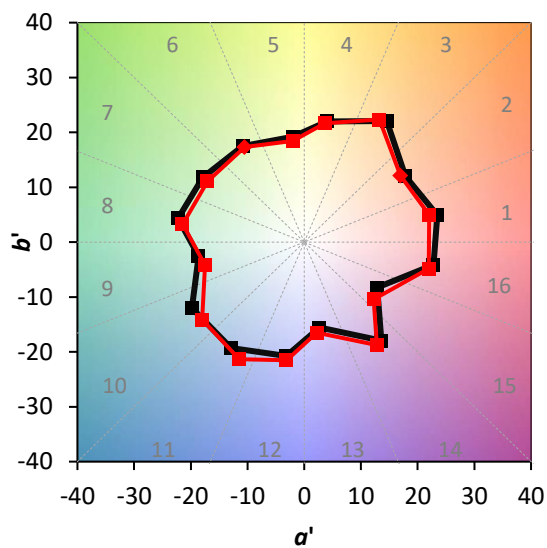
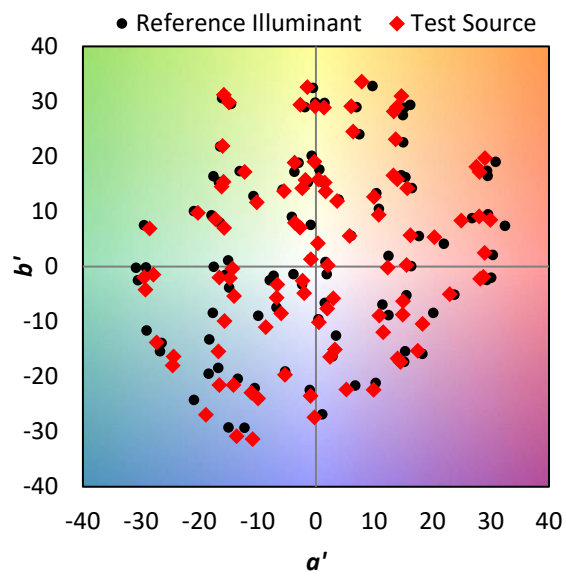
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Summary

$R_f = 88.9$
 $R_g = 97.2$
 $CIE R_a = 92.0$
 $R_9 = 62.7$



Color Vector Graphics

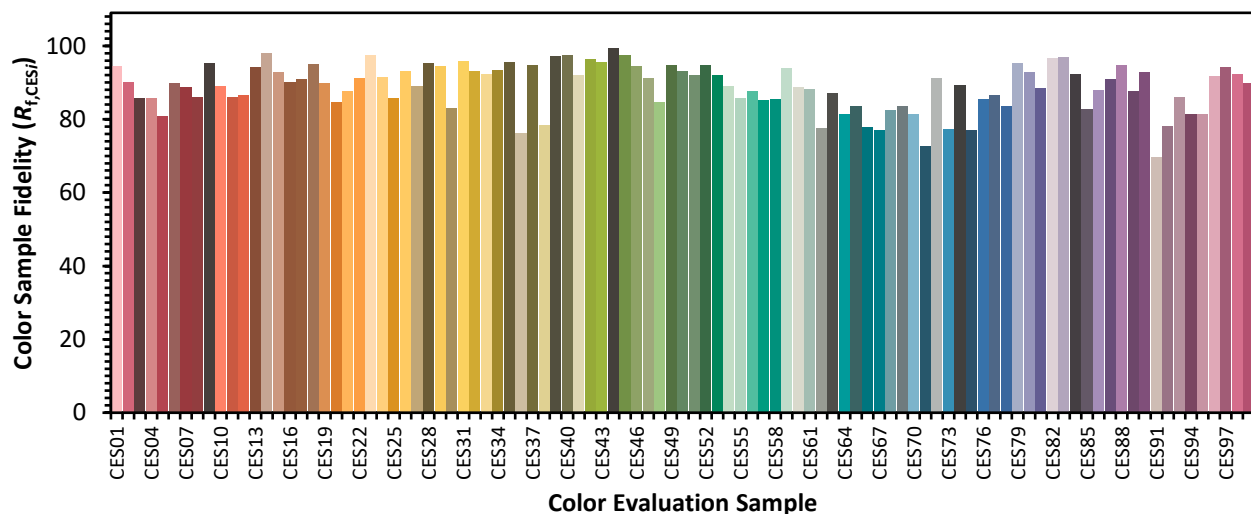


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Individual Sample Fidelity Index ($R_{f,i}$)

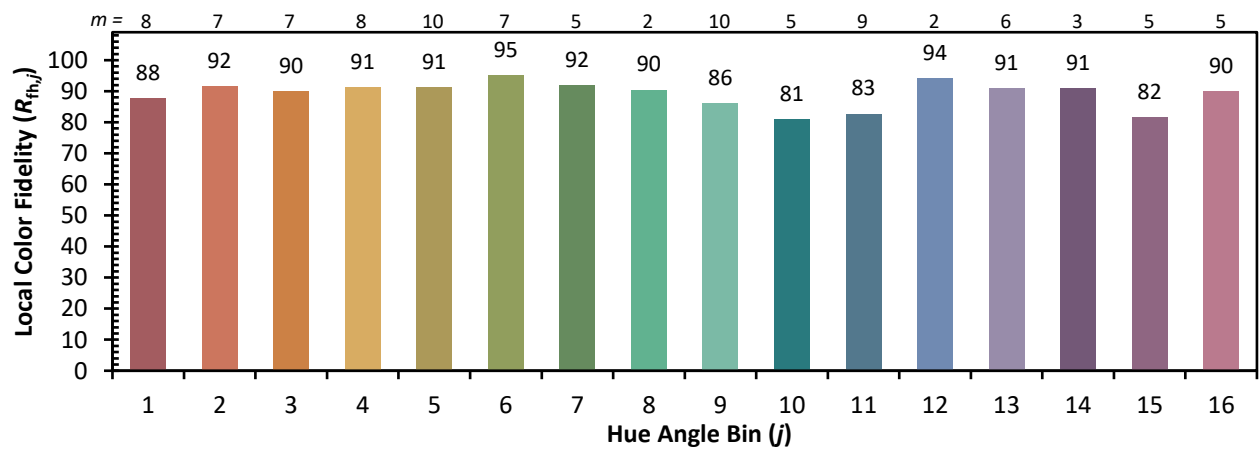
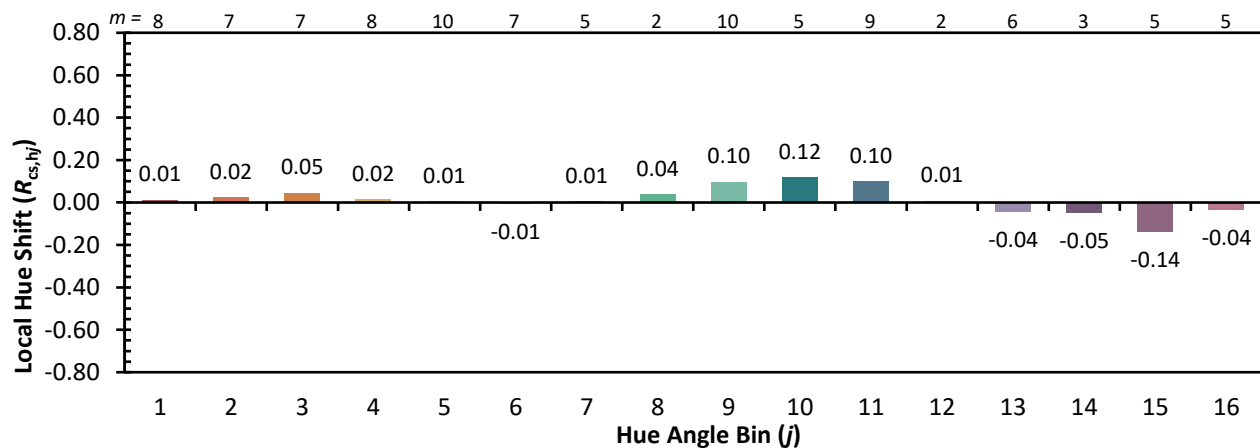
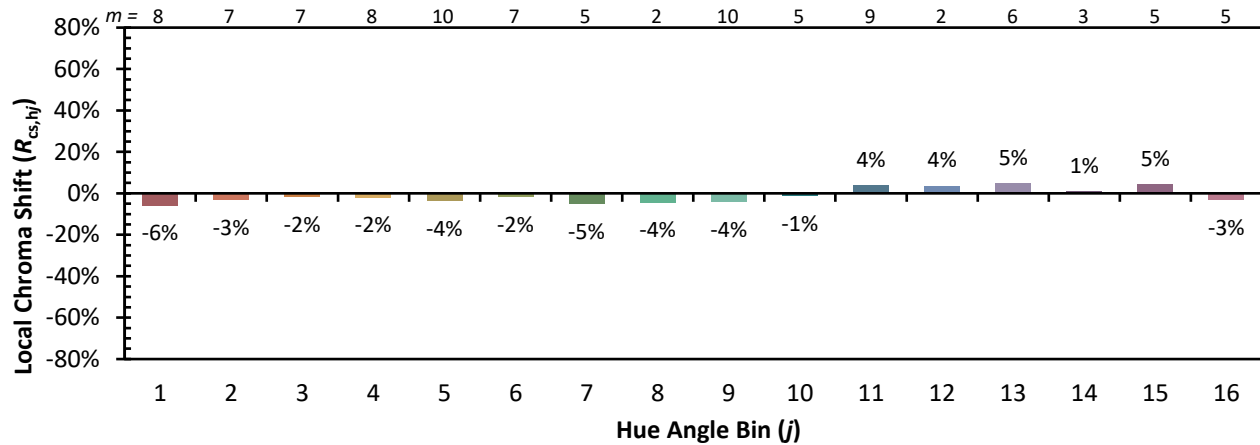
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CES02 = 61	CES27 = 89	CES52 = 95	CES77 = 86
CES03 = 31	CES28 = 95	CES53 = 92	CES78 = 84
CES04 = 69	CES29 = 94	CES54 = 89	CES79 = 95
CES05 = 48	CES30 = 83	CES55 = 86	CES80 = 93
CES06 = 50	CES31 = 96	CES56 = 88	CES81 = 89
CES07 = 41	CES32 = 93	CES57 = 85	CES82 = 97
CES08 = 40	CES33 = 92	CES58 = 85	CES83 = 97
CES09 = 29	CES34 = 93	CES59 = 94	CES84 = 92
CES10 = 73	CES35 = 96	CES60 = 89	CES85 = 83
CES11 = 56	CES36 = 76	CES61 = 88	CES86 = 88
CES12 = 62	CES37 = 95	CES62 = 78	CES87 = 91
CES13 = 42	CES38 = 78	CES63 = 87	CES88 = 95
CES14 = 74	CES39 = 97	CES64 = 81	CES89 = 88
CES15 = 71	CES40 = 97	CES65 = 84	CES90 = 93
CES16 = 46	CES41 = 92	CES66 = 78	CES91 = 70
CES17 = 49	CES42 = 96	CES67 = 77	CES92 = 78
CES18 = 56	CES43 = 95	CES68 = 82	CES93 = 86
CES19 = 70	CES44 = 99	CES69 = 84	CES94 = 81
CES20 = 65	CES45 = 97	CES70 = 81	CES95 = 81
CES21 = 85	CES46 = 95	CES71 = 73	CES96 = 92
CES22 = 77	CES47 = 91	CES72 = 91	CES97 = 94
CES23 = 91	CES48 = 85	CES73 = 77	CES98 = 92
CES24 = 90	CES49 = 95	CES74 = 89	CES99 = 90
CES25 = 70	CES50 = 93	CES75 = 77	



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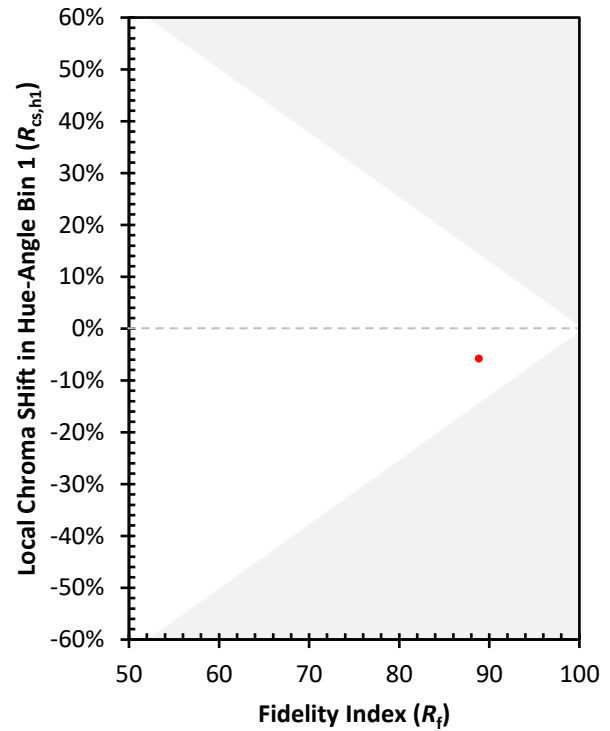
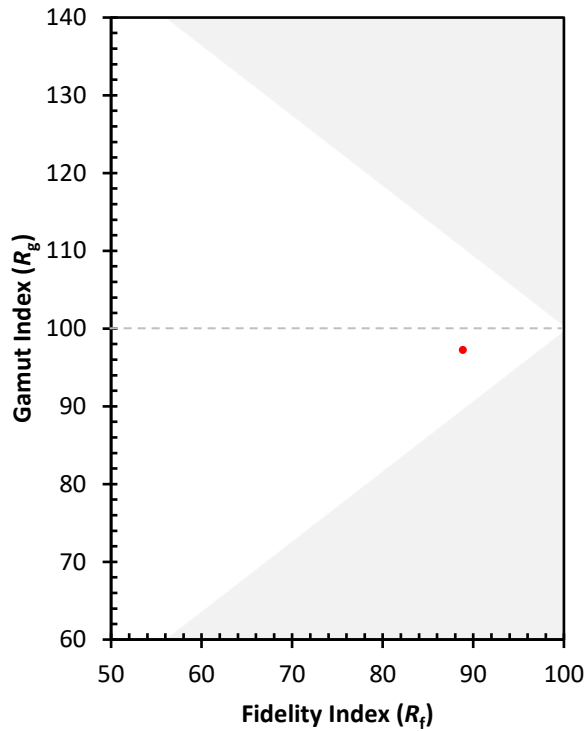
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)