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: P830142

Luminaire Tested: **OHBL-24SE-NL-UNV-L750-CD**

Issue Date: 5/3/2024

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

Test Information

Test Method:	LM-79-08
Report Number:	P830142
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
Test Lab:	INNOVATION CENTER
Issue Date:	5/3/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	OHBL-24SE-NL-UNV-L750-CD
Description:	24000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 5000K LEDS AND NO LENS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	26010.0 lumens
Efficiency:	N/A
Efficacy:	188.5 lumens/watt
Spacing Criteria (0/90/45):	1.26 / 1.28 / 1.39
Luminous Opening:	Rectangular (W 1.67' x L: 3.78' x H: 0')
CIE Type:	Direct

Input Watts (W):	138
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

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Scaled Data Report

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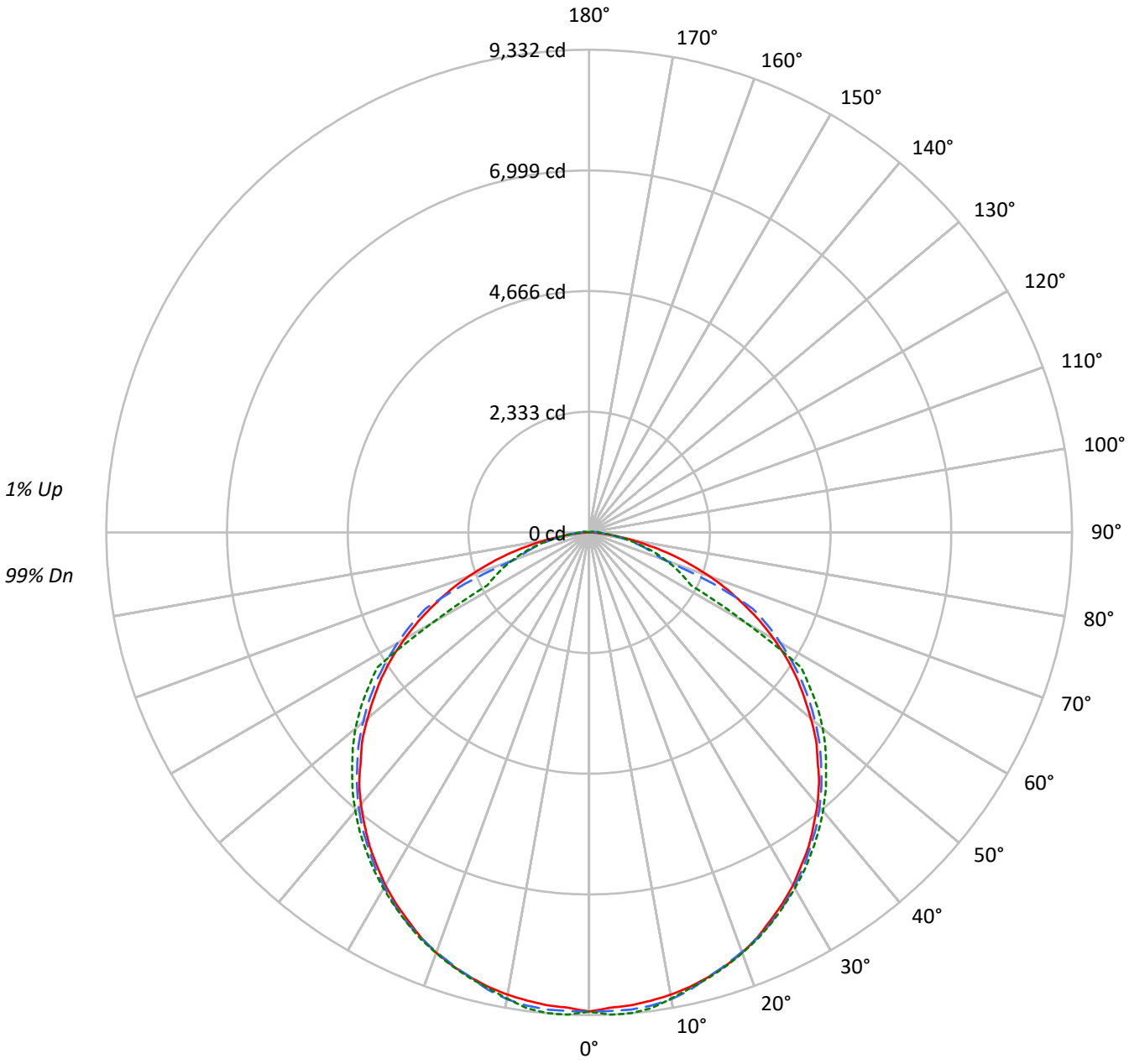
CATALOG NUMBER: OHBL-24SE-NL-UNV-L750-CD

Luminous Intensity Polar Plot



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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	99
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86	84
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73	71
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15823	15823	15823
5°	15736	15878	15998
10°	15740	15889	15870
15°	15737	15735	15769
20°	15716	15692	15730
25°	15608	15688	15700
30°	15536	15616	15677
35°	15435	15520	15666
40°	15302	15447	15675
45°	15081	15309	15643
50°	14854	15157	15658
55°	14570	14948	15485
60°	14082	14582	12055
65°	13323	14098	8114
70°	12323	7484	7874
75°	10749	7112	7520
80°	8266	6524	6891
85°	4172	6594	6751

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CATALOG NUMBER: OHBL-24SE-NL-UNV-L750-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	880.1	3.4
10°-20°	2520.0	9.7
20°-30°	3834.4	14.7
30°-40°	4662.1	17.9
40°-50°	4902.0	18.8
50°-60°	4476.1	17.2
60°-70°	2869.4	11.0
70°-80°	1355.5	5.2
80°-90°	375.9	1.4
90°-100°	99.5	0.4
100°-110°	27.3	0.1
110°-120°	7.6	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°	7234.6	27.8
0°-40°	11896.7	45.7
0°-60°	21274.9	81.8
0°-90°	25875.7	99.5
90°-120°	134.3	0.5
90°-150°	134.3	0.5
90°-180°	134.0	0.5
0°-180°	26010.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9264	9264	9264	9264	9264	
5°	9178	9214	9261	9311	9331	873
15°	8900	8966	8898	8911	8918	2513
25°	8282	8295	8324	8338	8331	3822
35°	7403	7359	7443	7534	7513	4626
45°	6244	6232	6338	6488	6476	4826
55°	4893	4856	5020	5187	5200	4364
65°	3297	3297	3488	2001	2008	3268
75°	1629	1660	1078	1135	1140	1717
85°	213	270	336	364	344	315
90°	0	91	150	177	174	9
95°	5	47	107	145	145	3
105°	8	18	26	26	24	8
115°	8	11	16	11	2	6
125°	0	0	0	0	0	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	

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Scaled Data Report

TEST NUMBER: P830142
CATALOG NUMBER: OHBL-24SE-NL-UNV-L750-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9264.1	9264.1	9264.1	9264.1	*9264.1*
2.5°	*9199.0*	*9230.0*	*9264.1*	*9308.0*	*9332.2*
5°	9177.9	9213.7	9260.8	9311.2	*9330.7*
7.5°	9132.4	9182.7	9228.3	9264.1	*9275.5*
10°	9075.5	9135.7	9161.7	9158.4	*9150.3*
12.5°	8999.1	9062.6	9054.5	9017.0	*9023.5*
15°	8899.9	8966.5	8898.4	8911.3	*8917.8*
17.5°	8782.9	8847.9	8768.3	8794.3	*8796.0*
20°	8646.4	8695.1	8633.3	8654.5	*8654.5*
22.5°	8482.2	8516.3	8490.3	8504.9	*8508.2*
25°	8282.2	8295.2	8324.4	8337.5	*8331.0*
27.5°	8090.5	8074.2	8131.1	8161.9	*8145.6*
30°	7877.5	7851.5	7918.1	7968.5	*7949.1*
32.5°	7633.6	7617.4	7693.8	7753.9	*7742.5*
35°	7402.8	7358.9	7443.4	7534.5	*7513.3*
37.5°	7129.7	7103.7	7199.6	7295.6	*7284.2*
40°	6863.1	6819.2	6928.1	7041.9	*7030.5*
42.5°	6577.1	6524.9	6643.7	6780.3	*6767.2*
45°	6243.7	6232.3	6338.0	6487.6	*6476.2*
47.5°	5948.0	5891.1	6038.9	6183.6	*6196.7*
50°	5590.2	5569.2	5704.2	5879.7	*5892.6*
52.5°	5240.9	5226.2	5367.5	5544.8	*5567.5*
55°	4892.9	4855.5	5019.7	5187.2	*5200.2*
57.5°	4520.8	4481.7	4649.2	4831.3	*4858.8*
60°	4122.4	4085.0	4268.7	4437.8	*3529.1*
62.5°	3724.1	3698.1	3890.0	2755.4	*2220.6*
65°	3296.6	3296.6	3488.3	2001.0	*2007.6*
67.5°	2896.8	2870.8	2601.0	1797.8	*1797.8*
70°	2467.6	2477.4	1498.7	1575.3	*1576.8*
72.5°	2036.8	2072.6	1294.0	1355.6	*1358.9*
75°	1628.8	1659.8	1077.7	1134.7	*1139.5*
77.5°	1196.5	920.1	866.4	910.4	*912.0*
80°	840.4	580.3	663.3	705.4	*700.6*
82.5°	490.8	406.3	486.0	517.0	*515.3*
85°	212.9	269.9	336.5	364.2	*344.5*
87.5°	68.2	167.5	209.6	226.0	*224.2*
90°	0.0	91.0	149.6	177.1	*174.0*
92.5°	0.0	71.4	130.1	162.6	*164.2*
95°	4.8	47.2	107.4	144.7	*144.7*
97.5°	3.3	34.1	76.4	113.8	*117.0*
100°	3.3	27.5	50.4	81.2	*83.0*
102.5°	8.1	22.7	30.8	52.0	*53.7*
105°	8.1	17.9	26.0	26.0	*24.4*

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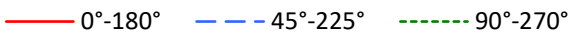
CATALOG NUMBER: OHBL-24SE-NL-UNV-L750-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9.8	13.1	17.9	13.1	*1.5*
115°	8.1	11.4	16.2	11.4	*1.5*
117.5°	0.0	0.0	0.0	0.0	*0.0*
120°	0.0	0.0	0.0	0.0	*0.0*
122.5°	0.0	0.0	0.0	0.0	*0.0*
125°	0.0	0.0	0.0	0.0	*0.0*
127.5°	0.0	0.0	0.0	0.0	*0.0*
130°	0.0	0.0	0.0	0.0	*0.0*
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*

Report Generated By 670246072 / DESKTOP-50001EG


0°-180°
45°-225°
90°-270°

107.5°	8.1	16.2	22.7	14.6	*4.8*
110°	9.8	14.6	19.4	13.1	*1.5*

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1121 Highway 74 South
Peachtree City, GA 30269

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

Report Prepared for

Cooper Lighting Solutions

METALUX

Report Number: SP1-2304-001-3

Test Date: 05/31/2023

Luminaire Tested: OHB-15SE-N-UNV-L750

Data in this report applies to families of products including OHB-15SE-N-UNV-L750.

Report Generated By FNC07603 / LDUCLS01DT446
Version: v6.12

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

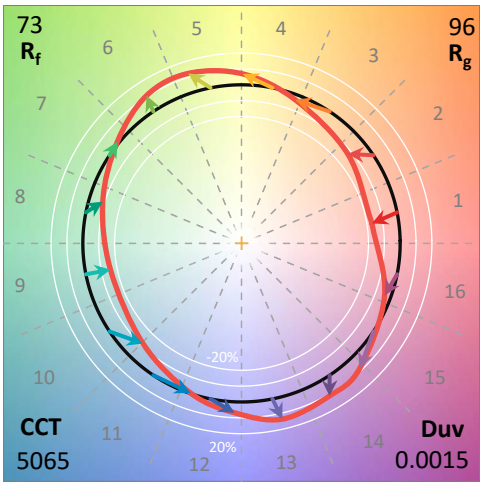
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2304-001-3
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	05/31/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	**OHB-15SE-N-UNV-L750**
Description:	15SE OHB WITH APT LEDS, NARROW LENS, 70CRI 5000K

Spectral Parameters

CCT (K):	5065	CRI (Ra):	72.1		
CIE u':	0.2097	R1:	70.0	R9:	-29.1
CIE v':	0.4852	R2:	76.6	R10:	44.1
Duv:	0.0015	R3:	81.0	R11:	70.8
CIE x:	0.3435	R4:	73.2	R12:	44.5
CIE y:	0.3531	R5:	70.9	R13:	70.5
CIE z:	0.3034	R6:	67.9	R14:	89.2
Peak Wavelength (nm):	448	R7:	79.9		
Dominant Wavelength (nm):	570	R8:	56.9		
Purity:	9.1				

Rf:	72.7
Rg:	95.7



Test Conditions

Stabilization Time:	23M
Operation Time:	12H
Room Temperature (°C) / RH%:	25.7/44%
Sphere Temperature (°C):	25.3

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REPORT NUMBER: SP1-2304-001-3

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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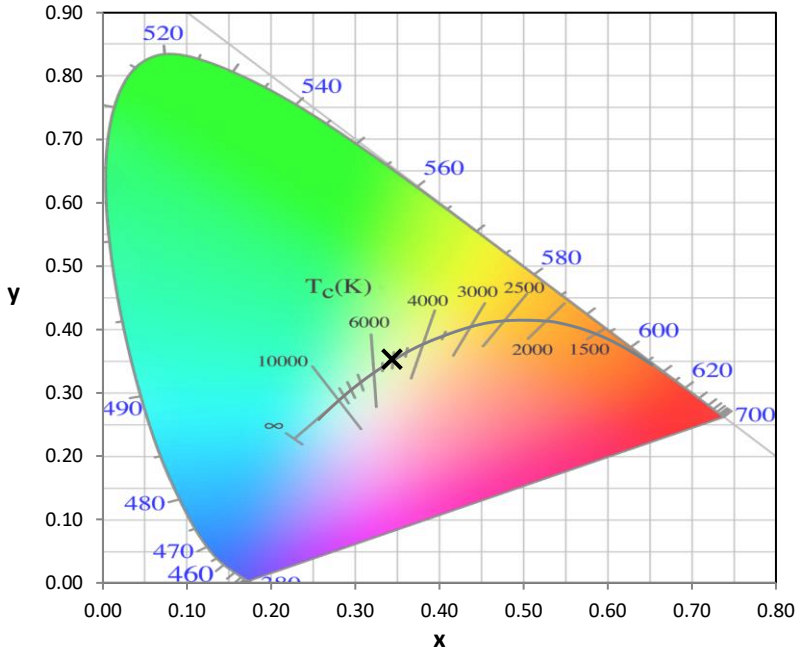
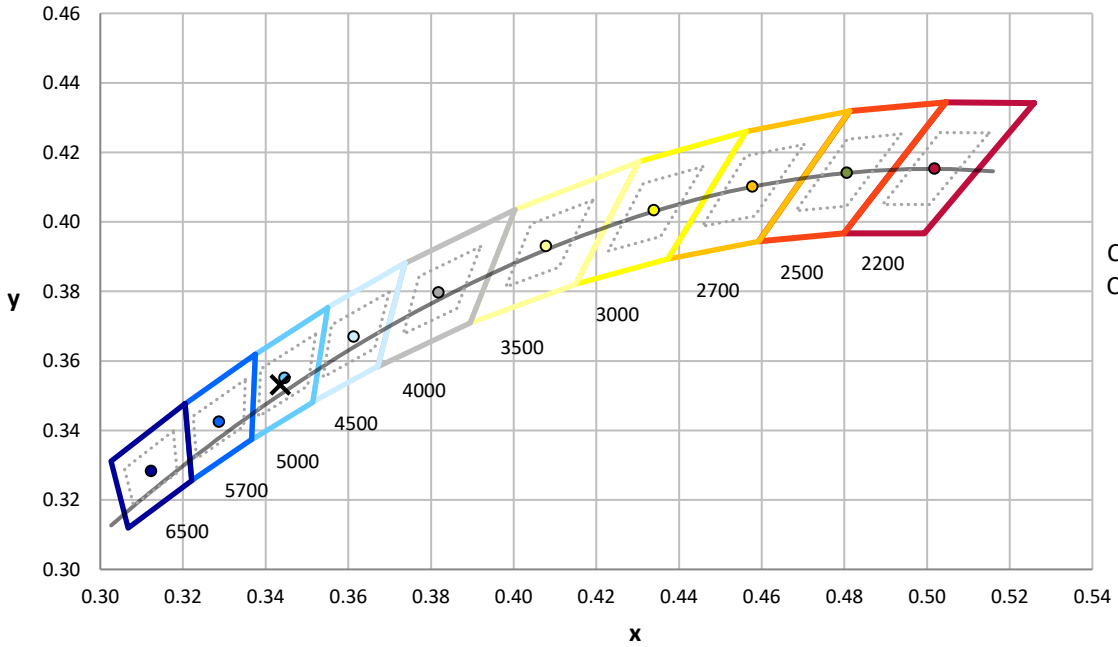
CIE 1931 Chromaticity Diagram



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



CCT = 5065K
CIE x = 0.3435
CIE y = 0.3531
Duv = 0.0015

Point lies inside the ANSI 5000K 4-step quadrangle

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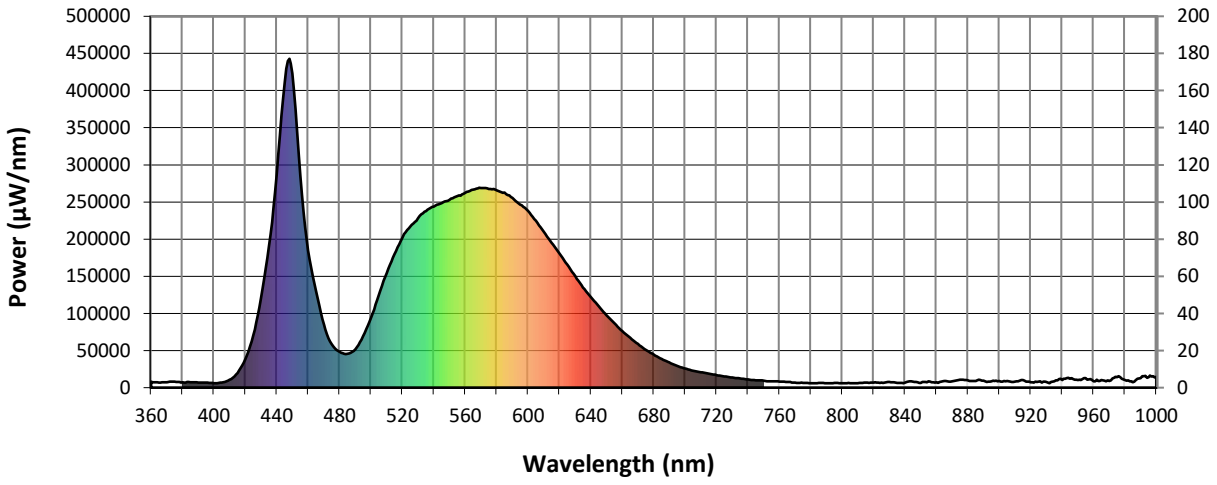
Photopic Flux vs. Wavelength



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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	7901	NR	490	51801	NR	620	180332	NR	750	9189	NR	880	9627	NR
365	7002	NR	495	69123	NR	625	165678	NR	755	8359	NR	885	9124	NR
370	7284	NR	500	94270	NR	630	150434	NR	760	8168	NR	890	9197	NR
375	7942	NR	505	124521	NR	635	134965	NR	765	7713	NR	895	8690	NR
380	7035	NR	510	154116	NR	640	121856	NR	770	6636	NR	900	8804	NR
385	7297	NR	515	179594	NR	645	109311	NR	775	6555	NR	905	8894	NR
390	6671	NR	520	201941	NR	650	97492	NR	780	5754	NR	910	8101	NR
395	6834	NR	525	216547	NR	655	86413	NR	785	6320	NR	915	10080	NR
400	5920	NR	530	228346	NR	660	76250	NR	790	5938	NR	920	7255	NR
405	7007	NR	535	237949	NR	665	67186	NR	795	6403	NR	925	8009	NR
410	10588	NR	540	243629	NR	670	58769	NR	800	6035	NR	930	7697	NR
415	19827	NR	545	248627	NR	675	50698	NR	805	5970	NR	935	8410	NR
420	38440	NR	550	252906	NR	680	44590	NR	810	6014	NR	940	10423	NR
425	70453	NR	555	258102	NR	685	38628	NR	815	6644	NR	945	11776	NR
430	120416	NR	560	262415	NR	690	33765	NR	820	6798	NR	950	10166	NR
435	190652	NR	565	266550	NR	695	29058	NR	825	6635	NR	955	12930	NR
440	286544	NR	570	268921	NR	700	25892	NR	830	7694	NR	960	8476	NR
445	410304	NR	575	267672	NR	705	22943	NR	835	6370	NR	965	10058	NR
450	422855	NR	580	265623	NR	710	20733	NR	840	6700	NR	970	8998	NR
455	285343	NR	585	262668	NR	715	18943	NR	845	8162	NR	975	14305	NR
460	184907	NR	590	255270	NR	720	16835	NR	850	6467	NR	980	10085	NR
465	130219	NR	595	246513	NR	725	15199	NR	855	8359	NR	985	7311	NR
470	84822	NR	600	237819	NR	730	13533	NR	860	7106	NR	990	12758	NR
475	58457	NR	605	224633	NR	735	12345	NR	865	9174	NR	995	14051	NR
480	47999	NR	610	209648	NR	740	10946	NR	870	8374	NR	1000	14421	NR
485	45483	NR	615	195117	NR	745	9933	NR	875	10878	NR			

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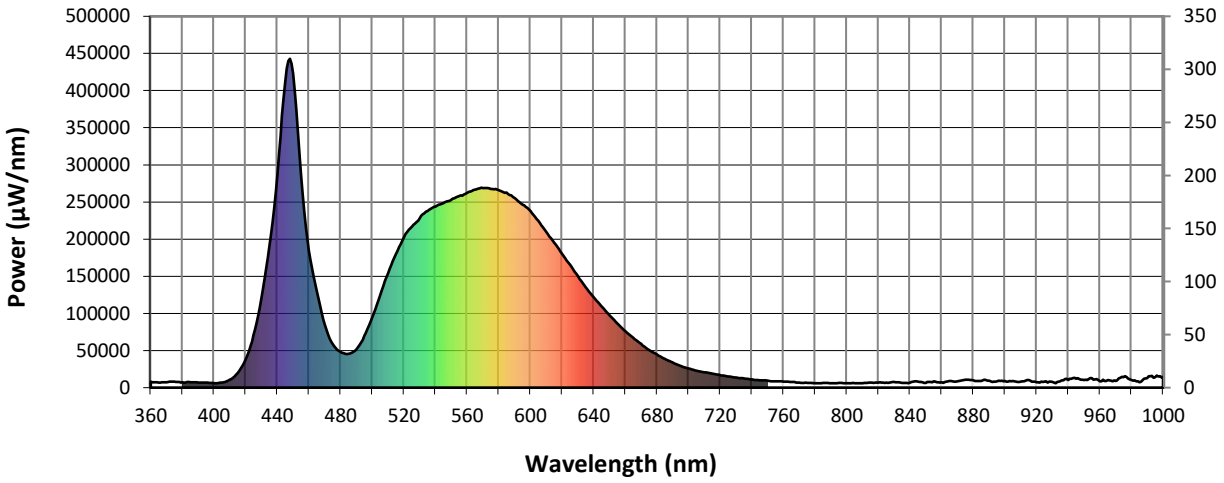
REPORT NUMBER: SP1-2304-001-3

Scotopic Flux vs. Wavelength



Scotopic Lumens: 28328.9 **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	7901	NR	490	51801	NR	620	180332	NR	750	9189	NR	880	9627	NR
365	7002	NR	495	69123	NR	625	165678	NR	755	8359	NR	885	9124	NR
370	7284	NR	500	94270	NR	630	150434	NR	760	8168	NR	890	9197	NR
375	7942	NR	505	124521	NR	635	134965	NR	765	7713	NR	895	8690	NR
380	7035	NR	510	154116	NR	640	121856	NR	770	6636	NR	900	8804	NR
385	7297	NR	515	179594	NR	645	109311	NR	775	6555	NR	905	8894	NR
390	6671	NR	520	201941	NR	650	97492	NR	780	5754	NR	910	8101	NR
395	6834	NR	525	216547	NR	655	86413	NR	785	6320	NR	915	10080	NR
400	5920	NR	530	228346	NR	660	76250	NR	790	5938	NR	920	7255	NR
405	7007	NR	535	237949	NR	665	67186	NR	795	6403	NR	925	8009	NR
410	10588	NR	540	243629	NR	670	58769	NR	800	6035	NR	930	7697	NR
415	19827	NR	545	248627	NR	675	50698	NR	805	5970	NR	935	8410	NR
420	38440	NR	550	252906	NR	680	44590	NR	810	6014	NR	940	10423	NR
425	70453	NR	555	258102	NR	685	38628	NR	815	6644	NR	945	11776	NR
430	120416	NR	560	262415	NR	690	33765	NR	820	6798	NR	950	10166	NR
435	190652	NR	565	266550	NR	695	29058	NR	825	6635	NR	955	12930	NR
440	286544	NR	570	268921	NR	700	25892	NR	830	7694	NR	960	8476	NR
445	410304	NR	575	267672	NR	705	22943	NR	835	6370	NR	965	10058	NR
450	422855	NR	580	265623	NR	710	20733	NR	840	6700	NR	970	8998	NR
455	285343	NR	585	262668	NR	715	18943	NR	845	8162	NR	975	14305	NR
460	184907	NR	590	255270	NR	720	16835	NR	850	6467	NR	980	10085	NR
465	130219	NR	595	246513	NR	725	15199	NR	855	8359	NR	985	7311	NR
470	84822	NR	600	237819	NR	730	13533	NR	860	7106	NR	990	12758	NR
475	58457	NR	605	224633	NR	735	12345	NR	865	9174	NR	995	14051	NR
480	47999	NR	610	209648	NR	740	10946	NR	870	8374	NR	1000	14421	NR
485	45483	NR	615	195117	NR	745	9933	NR	875	10878	NR			

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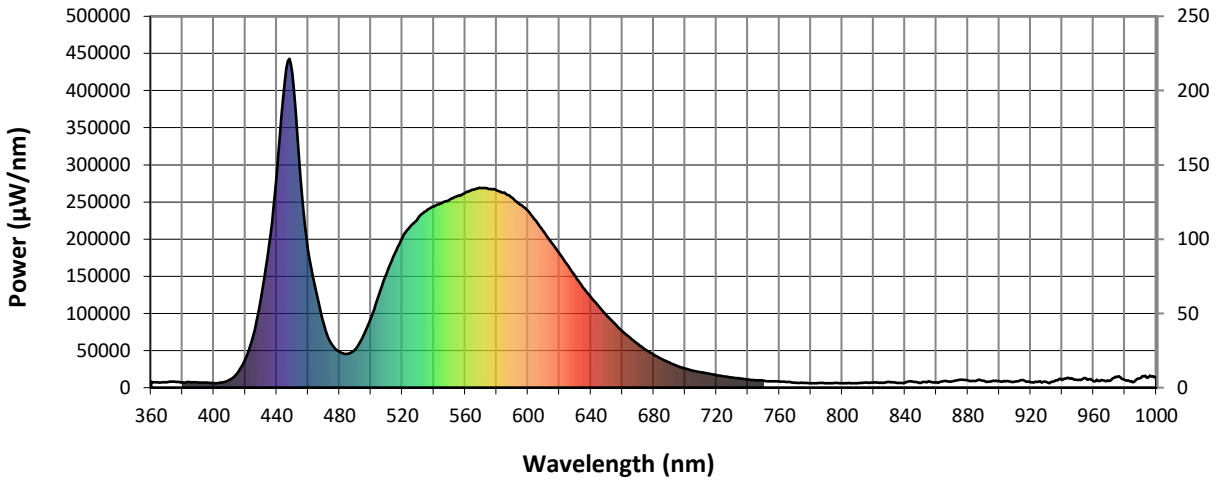
Melanopic Flux vs. Wavelength



Melanopic Lumens: 11377.8 M/P: 0.71

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	7901	NR	490	51801	NR	620	180332	NR	750	9189	NR	880	9627	NR
365	7002	NR	495	69123	NR	625	165678	NR	755	8359	NR	885	9124	NR
370	7284	NR	500	94270	NR	630	150434	NR	760	8168	NR	890	9197	NR
375	7942	NR	505	124521	NR	635	134965	NR	765	7713	NR	895	8690	NR
380	7035	NR	510	154116	NR	640	121856	NR	770	6636	NR	900	8804	NR
385	7297	NR	515	179594	NR	645	109311	NR	775	6555	NR	905	8894	NR
390	6671	NR	520	201941	NR	650	97492	NR	780	5754	NR	910	8101	NR
395	6834	NR	525	216547	NR	655	86413	NR	785	6320	NR	915	10080	NR
400	5920	NR	530	228346	NR	660	76250	NR	790	5938	NR	920	7255	NR
405	7007	NR	535	237949	NR	665	67186	NR	795	6403	NR	925	8009	NR
410	10588	NR	540	243629	NR	670	58769	NR	800	6035	NR	930	7697	NR
415	19827	NR	545	248627	NR	675	50698	NR	805	5970	NR	935	8410	NR
420	38440	NR	550	252906	NR	680	44590	NR	810	6014	NR	940	10423	NR
425	70453	NR	555	258102	NR	685	38628	NR	815	6644	NR	945	11776	NR
430	120416	NR	560	262415	NR	690	33765	NR	820	6798	NR	950	10166	NR
435	190652	NR	565	266550	NR	695	29058	NR	825	6635	NR	955	12930	NR
440	286544	NR	570	268921	NR	700	25892	NR	830	7694	NR	960	8476	NR
445	410304	NR	575	267672	NR	705	22943	NR	835	6370	NR	965	10058	NR
450	422855	NR	580	265623	NR	710	20733	NR	840	6700	NR	970	8998	NR
455	285343	NR	585	262668	NR	715	18943	NR	845	8162	NR	975	14305	NR
460	184907	NR	590	255270	NR	720	16835	NR	850	6467	NR	980	10085	NR
465	130219	NR	595	246513	NR	725	15199	NR	855	8359	NR	985	7311	NR
470	84822	NR	600	237819	NR	730	13533	NR	860	7106	NR	990	12758	NR
475	58457	NR	605	224633	NR	735	12345	NR	865	9174	NR	995	14051	NR
480	47999	NR	610	209648	NR	740	10946	NR	870	8374	NR	1000	14421	NR
485	45483	NR	615	195117	NR	745	9933	NR	875	10878	NR			

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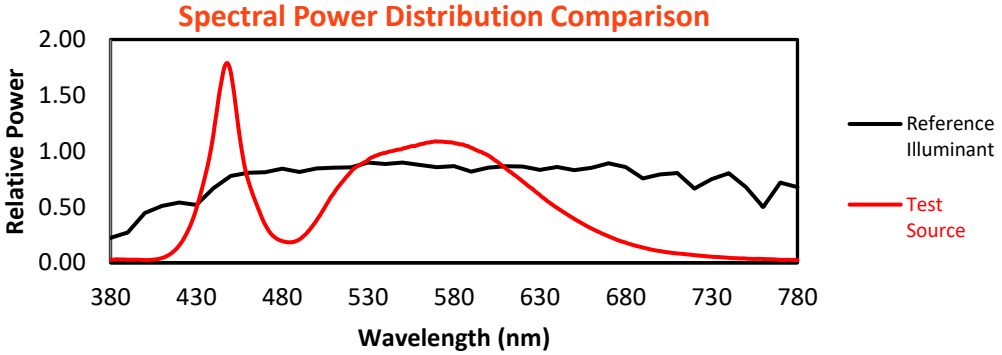
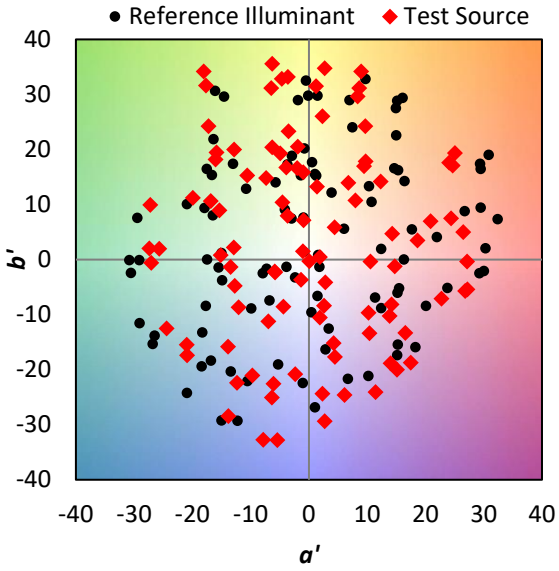
Summary

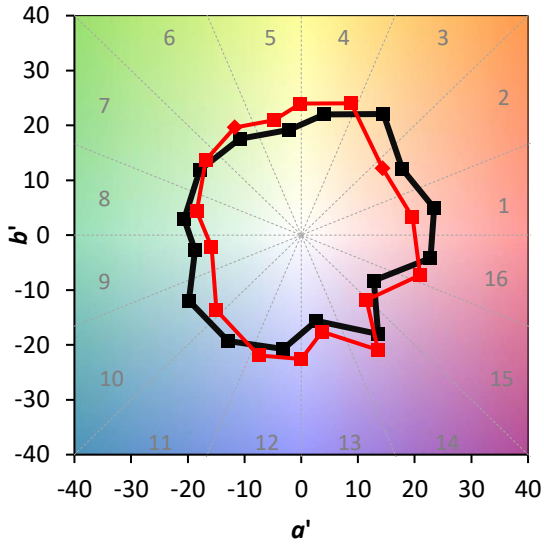
R_f = 72.7
R_g = 95.7
CIE R_a = 72.1
R_9 = -29.1

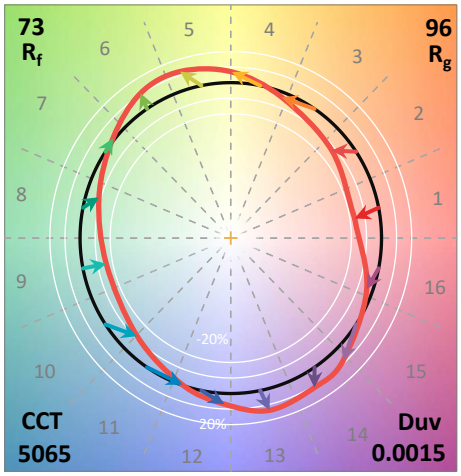
Spectral Power Distribution Comparison

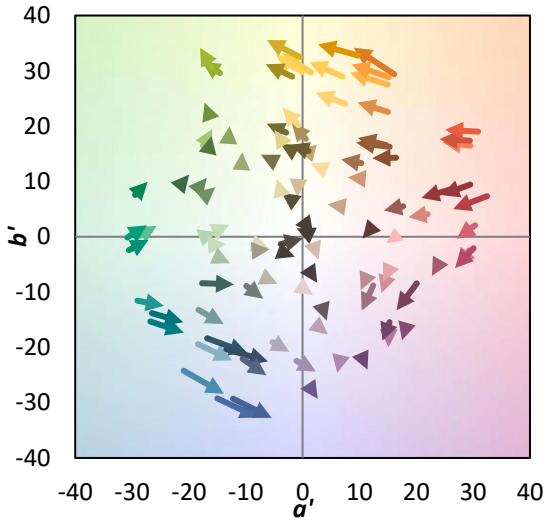


Color Vector Graphics









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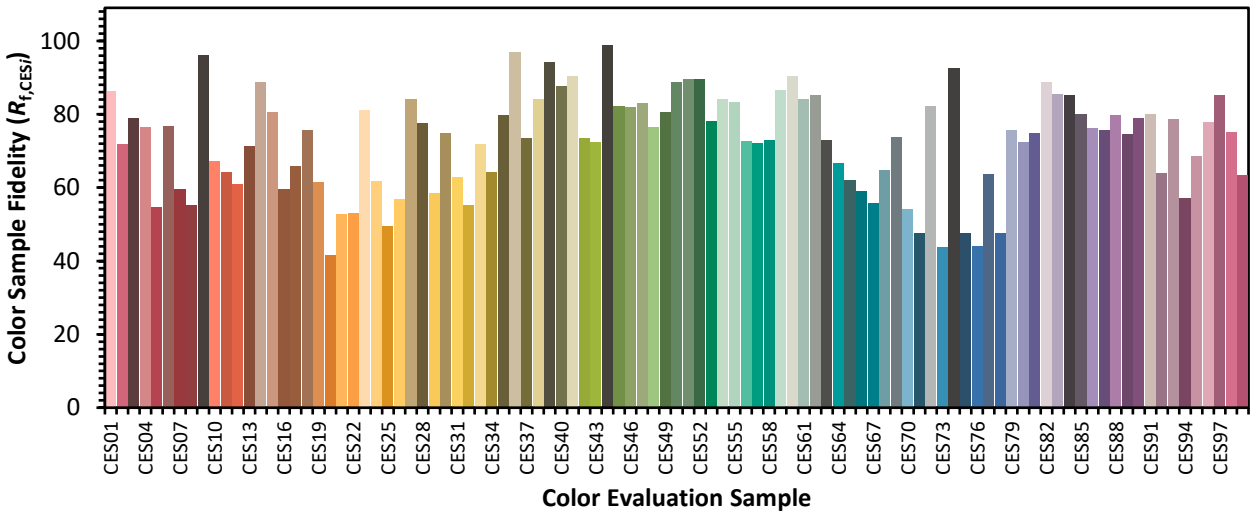
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 57	CES51 = 89	CES76 = 44
CES02 = 59	CES27 = 84	CES52 = 90	CES77 = 64
CES03 = 30	CES28 = 77	CES53 = 78	CES78 = 47
CES04 = 69	CES29 = 59	CES54 = 84	CES79 = 76
CES05 = 46	CES30 = 75	CES55 = 83	CES80 = 72
CES06 = 50	CES31 = 63	CES56 = 73	CES81 = 75
CES07 = 39	CES32 = 55	CES57 = 72	CES82 = 89
CES08 = 38	CES33 = 72	CES58 = 73	CES83 = 86
CES09 = 29	CES34 = 64	CES59 = 87	CES84 = 85
CES10 = 73	CES35 = 80	CES60 = 90	CES85 = 80
CES11 = 56	CES36 = 97	CES61 = 84	CES86 = 76
CES12 = 61	CES37 = 73	CES62 = 85	CES87 = 76
CES13 = 41	CES38 = 84	CES63 = 73	CES88 = 80
CES14 = 74	CES39 = 94	CES64 = 67	CES89 = 75
CES15 = 70	CES40 = 88	CES65 = 62	CES90 = 79
CES16 = 46	CES41 = 90	CES66 = 59	CES91 = 80
CES17 = 49	CES42 = 73	CES67 = 56	CES92 = 64
CES18 = 55	CES43 = 72	CES68 = 65	CES93 = 79
CES19 = 71	CES44 = 99	CES69 = 74	CES94 = 57
CES20 = 64	CES45 = 82	CES70 = 54	CES95 = 69
CES21 = 85	CES46 = 82	CES71 = 48	CES96 = 78
CES22 = 77	CES47 = 83	CES72 = 82	CES97 = 85
CES23 = 91	CES48 = 77	CES73 = 44	CES98 = 75
CES24 = 90	CES49 = 80	CES74 = 93	CES99 = 63
CES25 = 71	CES50 = 89	CES75 = 48	



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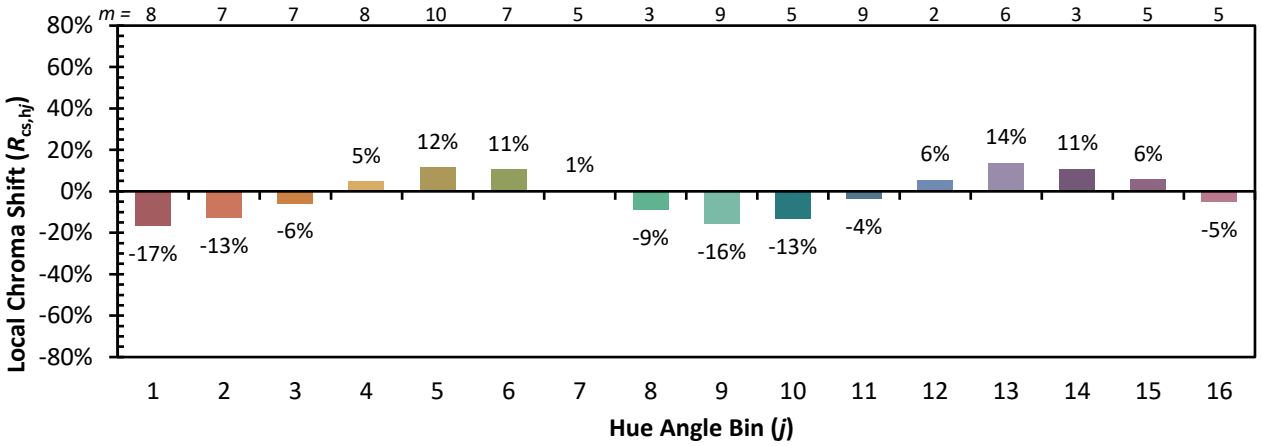
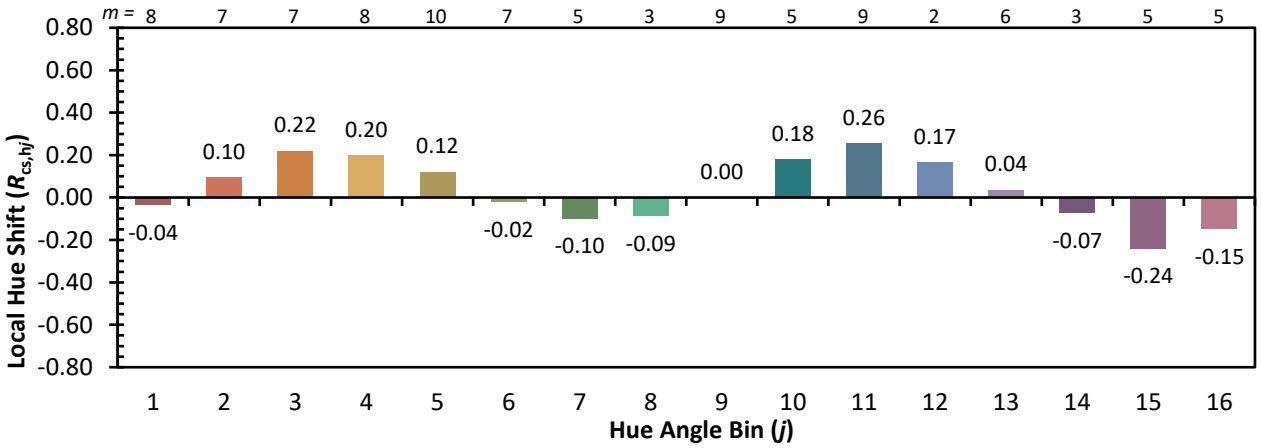
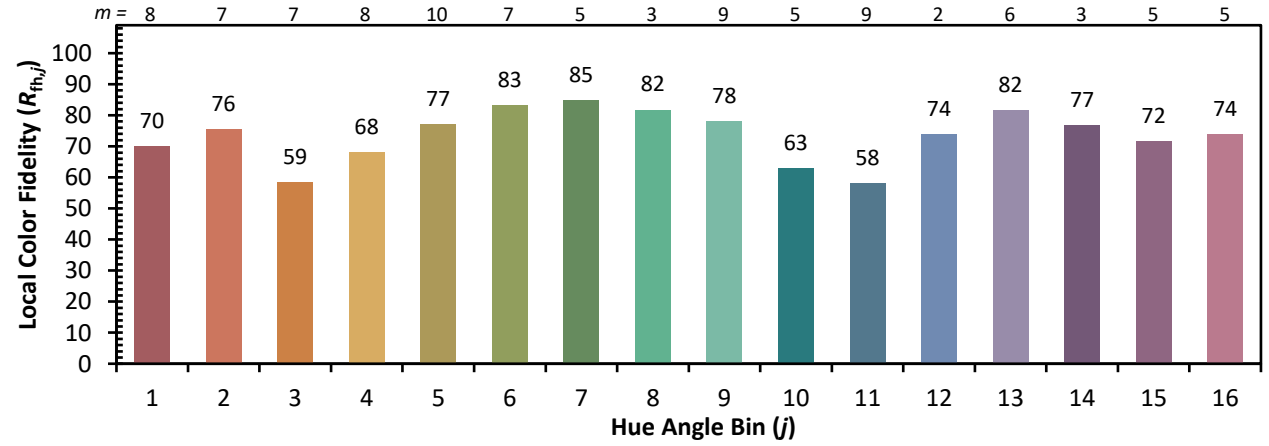
Color Rendition by Hue-Angle Bin







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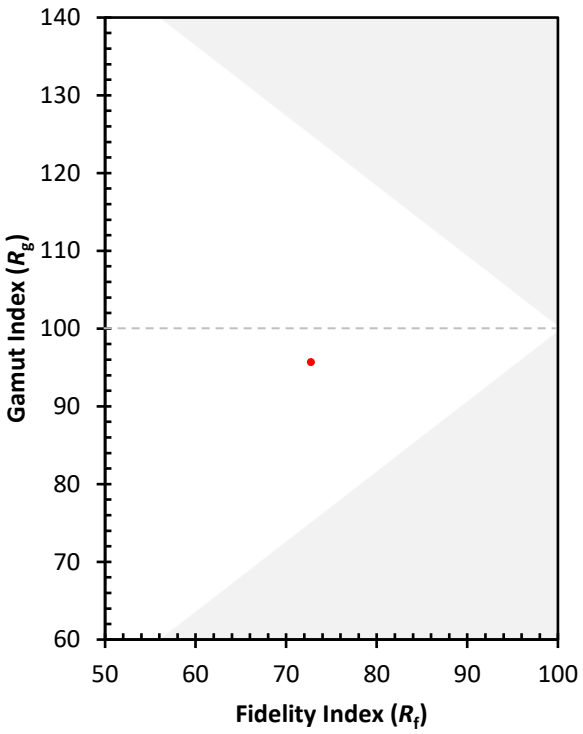
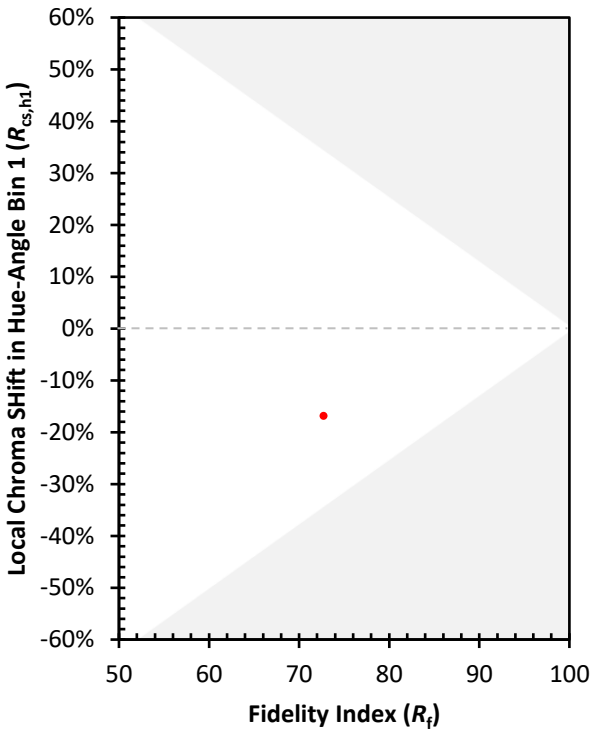
Measure Comparisons





(END OF REPORT)