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: P859919

Luminaire Tested: **SPHB-15SE-N-L750-CD**

Issue Date: 7/11/2024

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

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P859919
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-343-7)
Test Lab:	INNOVATION CENTER
Issue Date:	7/11/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	SPHB-15SE-N-L750-CD
Description:	15000 Lumen Standard Efficacy Select Pro High Bay with Narrow Lens and, 5000K 70CRI LEDs
Light Source:	-
Ballast/Driver:	-

Luminaire Equipment:	Sample No.	Condition	Description

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	16118.0 lumens
Efficiency:	N/A
Efficacy:	168.1 lumens/watt
Spacing Criteria (0/90/45):	1.16 / 0.54 / 0.94
Luminous Opening:	Rectangular (W 1' x L: 1.38' x H: 0')
CIE Type:	Direct

Input Watts (W):	95.9
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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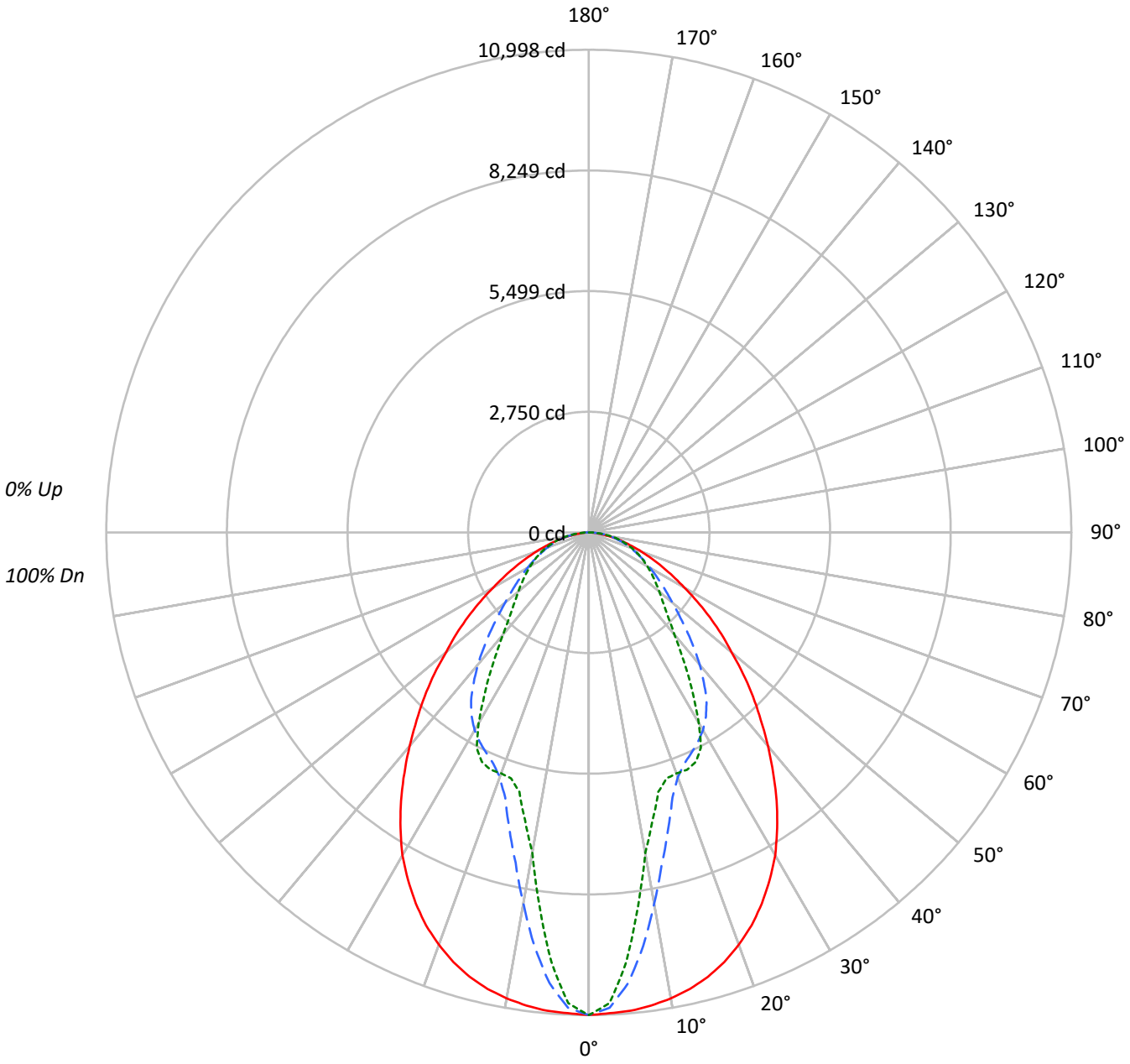
Scaled Data Report

TEST NUMBER: P859919
CATALOG NUMBER: SPHB-15SE-N-L750-CD

Luminous Intensity Polar Plot



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TEST NUMBER: P859919
CATALOG NUMBER: SPHB-15SE-N-L750-CD

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	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50
6	74	62	54	48	73	61	54	48	60	53	47	58	52	47	56	51	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	46	42	40
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	85781	85781	85781
5°	85681	80711	76892
10°	85388	68033	58650
15°	84678	56475	49424
20°	82972	49229	48517
25°	80305	47631	49655
30°	76509	46868	45189
35°	71039	44537	37446
40°	64688	39982	30920
45°	58391	34692	27145
50°	51531	30166	25418
55°	45726	27207	24467
60°	39187	25159	23968
65°	33919	23646	23847
70°	29027	22746	23818
75°	24365	22087	23606
80°	18592	21345	23119
85°	12171	18937	17809

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Scaled Data Report

TEST NUMBER: P859919
CATALOG NUMBER: SPHB-15SE-N-L750-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	937.6	5.8
10°-20°	2152.9	13.4
20°-30°	2909.6	18.1
30°-40°	3062.2	19.0
40°-50°	2598.4	16.1
50°-60°	2012.8	12.5
60°-70°	1401.8	8.7
70°-80°	802.7	5.0
80°-90°	233.6	1.4
90°-100°	6.2	0.0
100°-110°	0.0	0.0
110°-120°	0.0	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°	6000.2	37.2
0°-40°	9062.4	56.2
0°-60°	13673.6	84.8
0°-90°	16111.8	100.0
90°-120°	6.2	0.0
90°-150°	6.2	0.0
90°-180°	6.0	0.0
0°-180°	16118.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10998	10998	10998	10998	10998	
5°	10943	10742	10308	9913	9820	###
15°	10486	8900	6994	6295	6120	2951
25°	9331	6592	5534	5695	5770	4283
35°	7460	5069	4677	4225	3933	4650
45°	5294	3807	3145	2584	2461	4077
55°	3362	2564	2001	1818	1799	3006
65°	1838	1504	1281	1281	1292	1836
75°	808	719	733	779	783	862
85°	136	176	212	199	199	173
90°	1	16	31	40	41	7
95°	1	2	5	5	4	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
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: P859919
CATALOG NUMBER: SPHB-15SE-N-L750-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*10997.6*	*10997.6*	*10997.6*	*10997.6*	*10997.6*
2.5°	*10965.7*	10929.6	10841.4	10784.3	10739.8
5°	*10943.0*	10742.4	10308.3	9912.9	9820.5
7.5°	*10875.0*	10434.2	9506.5	8775.2	8590.5
10°	*10781.0*	9991.8	8589.7	7673.7	7405.0
12.5°	*10655.9*	9519.1	7711.5	6848.4	6716.6
15°	*10486.3*	8900.3	6993.7	6295.1	6120.5
17.5°	*10266.3*	8260.6	6331.2	5927.4	5878.7
20°	*9996.0*	7673.7	5930.8	5793.1	5845.1
22.5°	*9692.1*	7103.6	5698.2	5756.1	5853.5
25°	*9331.0*	6591.5	5534.5	5694.8	5769.6
27.5°	*8925.5*	6128.9	5384.2	5531.1	5531.1
30°	*8494.8*	5743.5	5203.7	5190.3	5017.3
32.5°	*7991.9*	5416.1	4967.8	4701.6	4444.7
35°	*7460.5*	5069.4	4677.3	4224.7	3932.6
37.5°	*6903.0*	4747.0	4309.5	3712.6	3440.6
40°	*6353.1*	4428.8	3926.7	3252.5	3036.7
42.5°	*5805.7*	4104.7	3527.9	2879.7	2709.3
45°	*5293.5*	3806.6	3145.0	2584.2	2460.8
47.5°	*4773.0*	3490.1	2791.6	2346.6	2261.0
50°	*4246.6*	3169.4	2486.0	2157.7	2094.7
52.5°	*3803.3*	2870.5	2226.6	1978.9	1941.1
55°	*3362.5*	2564.1	2000.7	1818.5	1799.2
57.5°	*2925.1*	2278.6	1794.2	1671.6	1667.4
60°	*2512.0*	2011.6	1612.8	1545.7	1536.4
62.5°	*2160.2*	1746.3	1440.7	1408.8	1413.0
65°	*1837.8*	1504.5	1281.2	1281.2	1292.1
67.5°	*1538.9*	1282.0	1135.1	1154.4	1169.5
70°	*1272.8*	1080.5	997.4	1031.0	1044.4
72.5°	*1020.9*	893.3	865.6	902.5	913.5
75°	*808.5*	718.7	732.9	779.1	783.3
77.5°	*599.5*	565.9	602.8	653.2	662.4
80°	*413.9*	417.3	475.2	510.5	514.7
82.5°	*267.0*	291.3	356.0	374.5	367.7
85°	*136.0*	176.3	211.6	199.0	199.0
87.5°	*52.1*	76.4	89.8	105.8	111.7
90°	*0.8*	16.0	31.1	39.5	41.1
92.5°	*0.8*	4.2	6.7	7.6	6.7
95°	*0.8*	2.5	5.0	5.0	4.2
97.5°	*0.0*	0.0	0.0	0.0	0.0
100°	*0.0*	0.0	0.0	0.0	0.0
102.5°	*0.0*	0.0	0.0	0.0	0.0
105°	*0.0*	0.0	0.0	0.0	0.0

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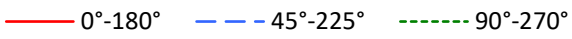
CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	*0.0*	0.0	0.0	0.0	0.0
115°	*0.0*	0.0	0.0	0.0	0.0
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°	*0.0*	0.0	0.0	0.0	0.0
110°	*0.0*	0.0	0.0	0.0	0.0

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1121 Highway 74 South
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LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

METALUX

Report Number: SP1-2404-343-3

Test Date: 05/20/2024

Luminaire Tested: SPHB-24SE-M-UNV-L750-CD

Data in this report applies to families of products SPHB-24SE-M-UNV-L750-CD.

Report Generated By FNC07603 / LDUCLS01DT446
Version: v6.13

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

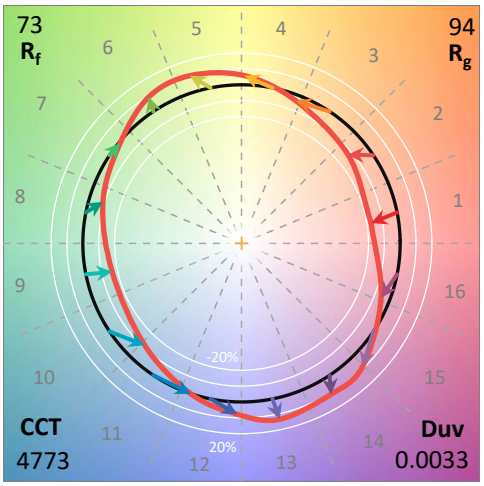
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2404-343-3
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	05/21/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	**SPHB-24SE-M-UNV-L750-CD**
Description:	18IN SPHB WITH MEDIUM LENS, 5000K/70CRI, 24K LUMENS, SE

Spectral Parameters

CCT (K):	4773	CRI (Ra):	71.4		
CIE u':	0.2116	R1:	68.3	R9:	-30.1
CIE v':	0.4918	R2:	76.4	R10:	43.3
Duv:	0.0033	R3:	81.8	R11:	66.6
CIE x:	0.3527	R4:	71.3	R12:	37.4
CIE y:	0.3643	R5:	68.3	R13:	69.4
CIE z:	0.2831	R6:	66.6	R14:	89.7
Peak Wavelength (nm):	449	R7:	81.9		
Dominant Wavelength (nm):	572	R8:	56.2		
Purity:	15.2				

Rf:	72.8
Rg:	94.3



Test Conditions

Stabilization Time:	23M
Operation Time:	12H
Room Temperature (°C) / RH%:	25.0/41%
Sphere Temperature (°C):	25.2

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REPORT NUMBER: SP1-2404-343-3

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	2/12/2024	8/12/2024
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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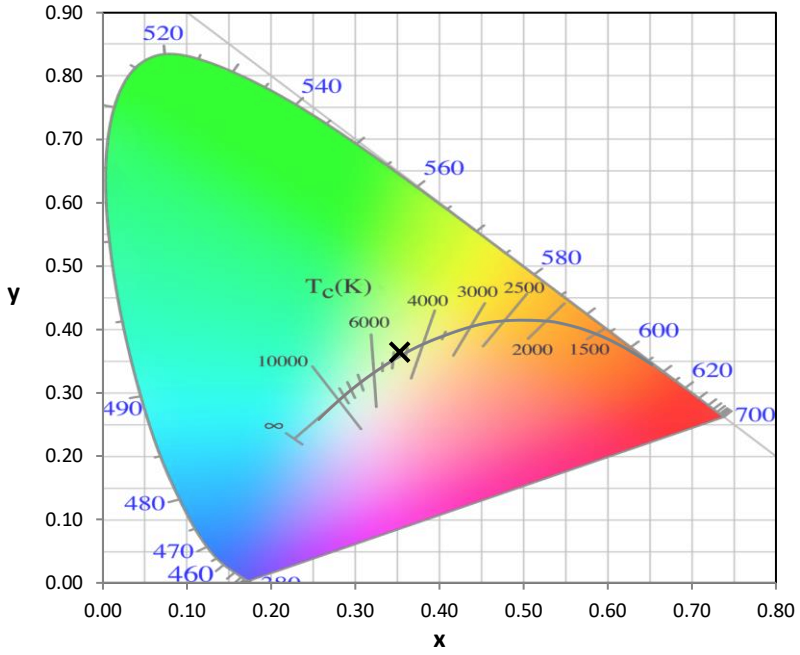
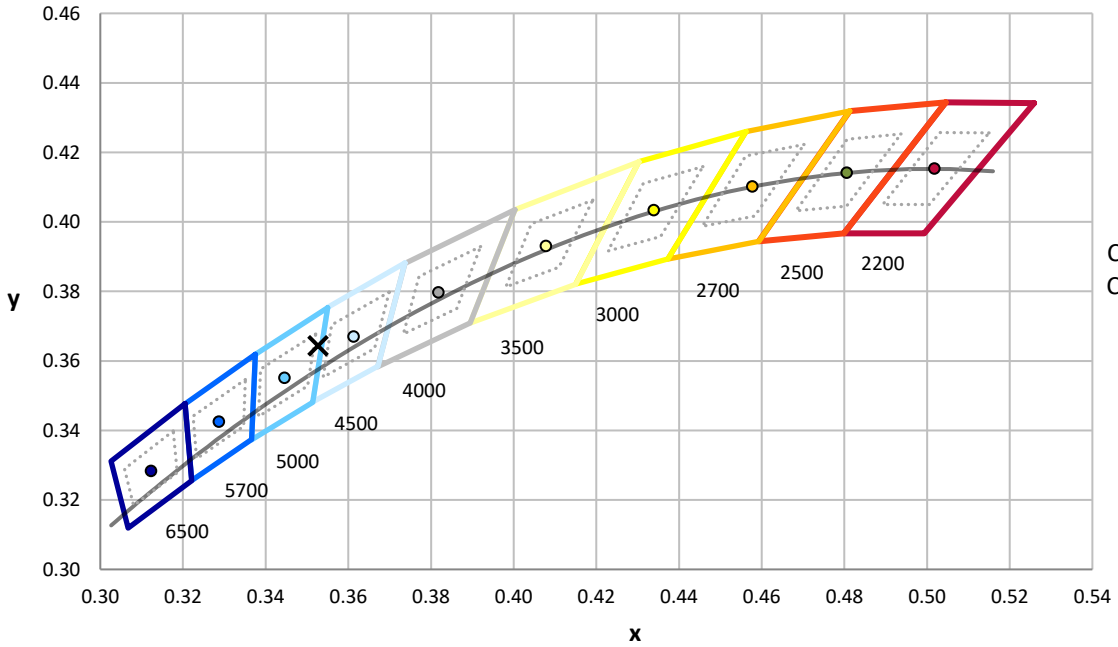
CIE 1931 Chromaticity Diagram



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



CCT = 4773K
CIE x = 0.3527
CIE y = 0.3643
Duv = 0.0033

Point lies inside the ANSI 5000K 7-step quadrangle

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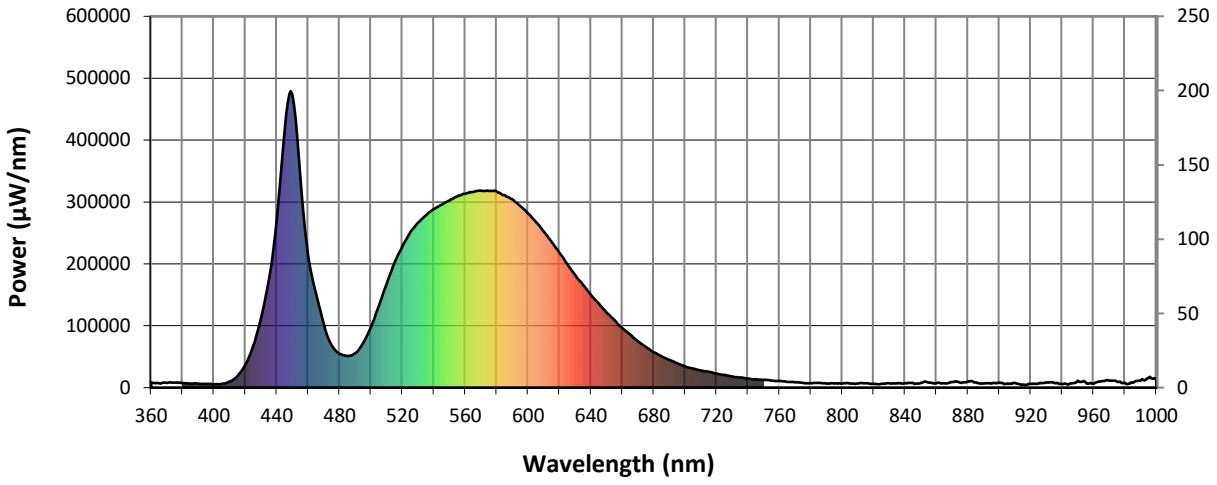
Photopic Flux vs. Wavelength



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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	8480	NR	490	55894	NR	620	217674	NR	750	12551	NR	880	9941	NR
365	7167	NR	495	71653	NR	625	199777	NR	755	11483	NR	885	8519	NR
370	7865	NR	500	98307	NR	630	181877	NR	760	10694	NR	890	6494	NR
375	8331	NR	505	131790	NR	635	166247	NR	765	9403	NR	895	6597	NR
380	7548	NR	510	168072	NR	640	149837	NR	770	8855	NR	900	8336	NR
385	6461	NR	515	201420	NR	645	135768	NR	775	7636	NR	905	6602	NR
390	6487	NR	520	228557	NR	650	121585	NR	780	7116	NR	910	7642	NR
395	6127	NR	525	250625	NR	655	109011	NR	785	7510	NR	915	5085	NR
400	5597	NR	530	266917	NR	660	96100	NR	790	6788	NR	920	5983	NR
405	6031	NR	535	278640	NR	665	85658	NR	795	6699	NR	925	6623	NR
410	9570	NR	540	288470	NR	670	74952	NR	800	6841	NR	930	8676	NR
415	18905	NR	545	295902	NR	675	65604	NR	805	6702	NR	935	7559	NR
420	36670	NR	550	302610	NR	680	57532	NR	810	6415	NR	940	5582	NR
425	67971	NR	555	309255	NR	685	50737	NR	815	6951	NR	945	6681	NR
430	112169	NR	560	313346	NR	690	45019	NR	820	6164	NR	950	11467	NR
435	175042	NR	565	316467	NR	695	39302	NR	825	6223	NR	955	8479	NR
440	270331	NR	570	318291	NR	700	34342	NR	830	6882	NR	960	6322	NR
445	415458	NR	575	317762	NR	705	30709	NR	835	7035	NR	965	10418	NR
450	473704	NR	580	316909	NR	710	27863	NR	840	7196	NR	970	11212	NR
455	340246	NR	585	310908	NR	715	25645	NR	845	7661	NR	975	9921	NR
460	214204	NR	590	304222	NR	720	22546	NR	850	7691	NR	980	7645	NR
465	151767	NR	595	293404	NR	725	20358	NR	855	8165	NR	985	7411	NR
470	101801	NR	600	281357	NR	730	18023	NR	860	6918	NR	990	11268	NR
475	68160	NR	605	267848	NR	735	16491	NR	865	6985	NR	995	16172	NR
480	54940	NR	610	252294	NR	740	14653	NR	870	9265	NR	1000	12246	NR
485	51233	NR	615	235449	NR	745	13435	NR	875	8266	NR			

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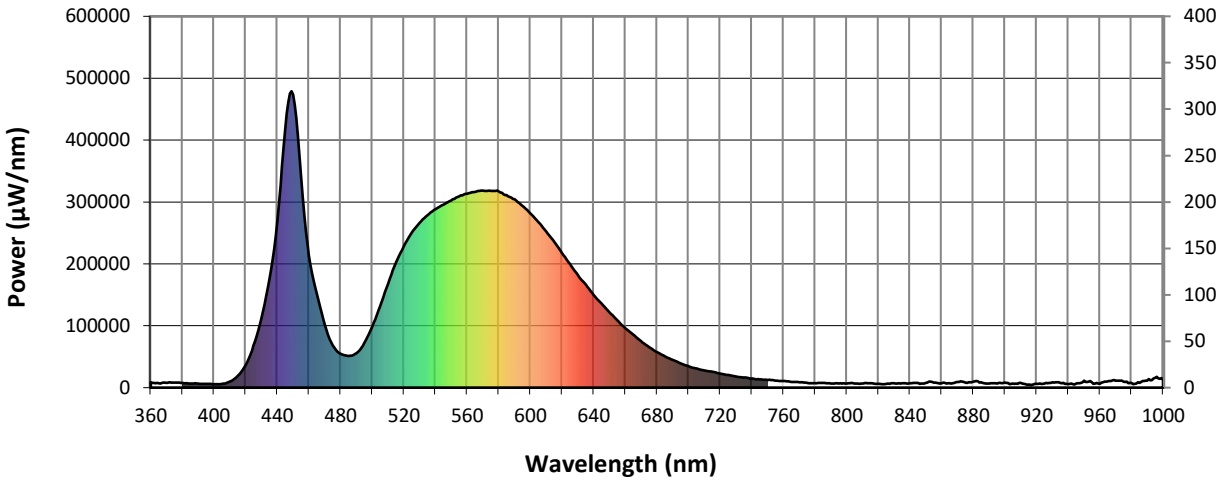
Scotopic Flux vs. Wavelength



Scotopic Lumens: 32037.1 **S/P: 1.7**

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	8480	NR	490	55894	NR	620	217674	NR	750	12551	NR	880	9941	NR
365	7167	NR	495	71653	NR	625	199777	NR	755	11483	NR	885	8519	NR
370	7865	NR	500	98307	NR	630	181877	NR	760	10694	NR	890	6494	NR
375	8331	NR	505	131790	NR	635	166247	NR	765	9403	NR	895	6597	NR
380	7548	NR	510	168072	NR	640	149837	NR	770	8855	NR	900	8336	NR
385	6461	NR	515	201420	NR	645	135768	NR	775	7636	NR	905	6602	NR
390	6487	NR	520	228557	NR	650	121585	NR	780	7116	NR	910	7642	NR
395	6127	NR	525	250625	NR	655	109011	NR	785	7510	NR	915	5085	NR
400	5597	NR	530	266917	NR	660	96100	NR	790	6788	NR	920	5983	NR
405	6031	NR	535	278640	NR	665	85658	NR	795	6699	NR	925	6623	NR
410	9570	NR	540	288470	NR	670	74952	NR	800	6841	NR	930	8676	NR
415	18905	NR	545	295902	NR	675	65604	NR	805	6702	NR	935	7559	NR
420	36670	NR	550	302610	NR	680	57532	NR	810	6415	NR	940	5582	NR
425	67971	NR	555	309255	NR	685	50737	NR	815	6951	NR	945	6681	NR
430	112169	NR	560	313346	NR	690	45019	NR	820	6164	NR	950	11467	NR
435	175042	NR	565	316467	NR	695	39302	NR	825	6223	NR	955	8479	NR
440	270331	NR	570	318291	NR	700	34342	NR	830	6882	NR	960	6322	NR
445	415458	NR	575	317762	NR	705	30709	NR	835	7035	NR	965	10418	NR
450	473704	NR	580	316909	NR	710	27863	NR	840	7196	NR	970	11212	NR
455	340246	NR	585	310908	NR	715	25645	NR	845	7661	NR	975	9921	NR
460	214204	NR	590	304222	NR	720	22546	NR	850	7691	NR	980	7645	NR
465	151767	NR	595	293404	NR	725	20358	NR	855	8165	NR	985	7411	NR
470	101801	NR	600	281357	NR	730	18023	NR	860	6918	NR	990	11268	NR
475	68160	NR	605	267848	NR	735	16491	NR	865	6985	NR	995	16172	NR
480	54940	NR	610	252294	NR	740	14653	NR	870	9265	NR	1000	12246	NR
485	51233	NR	615	235449	NR	745	13435	NR	875	8266	NR			

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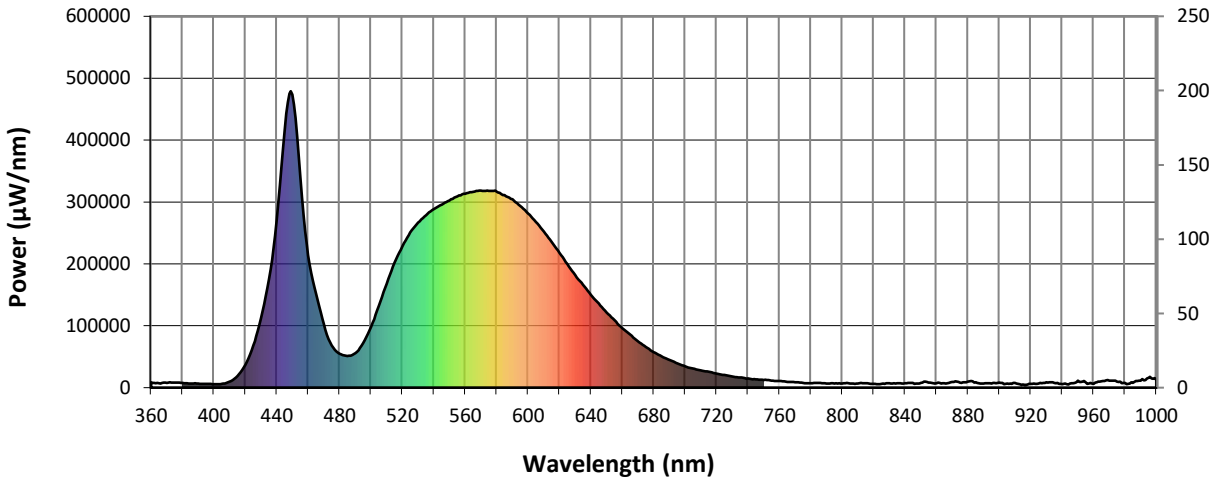
Melanopic Flux vs. Wavelength



Melanopic Lumens: 12680.1 **M/P: 0.67**

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	8480	NR	490	55894	NR	620	217674	NR	750	12551	NR	880	9941	NR
365	7167	NR	495	71653	NR	625	199777	NR	755	11483	NR	885	8519	NR
370	7865	NR	500	98307	NR	630	181877	NR	760	10694	NR	890	6494	NR
375	8331	NR	505	131790	NR	635	166247	NR	765	9403	NR	895	6597	NR
380	7548	NR	510	168072	NR	640	149837	NR	770	8855	NR	900	8336	NR
385	6461	NR	515	201420	NR	645	135768	NR	775	7636	NR	905	6602	NR
390	6487	NR	520	228557	NR	650	121585	NR	780	7116	NR	910	7642	NR
395	6127	NR	525	250625	NR	655	109011	NR	785	7510	NR	915	5085	NR
400	5597	NR	530	266917	NR	660	96100	NR	790	6788	NR	920	5983	NR
405	6031	NR	535	278640	NR	665	85658	NR	795	6699	NR	925	6623	NR
410	9570	NR	540	288470	NR	670	74952	NR	800	6841	NR	930	8676	NR
415	18905	NR	545	295902	NR	675	65604	NR	805	6702	NR	935	7559	NR
420	36670	NR	550	302610	NR	680	57532	NR	810	6415	NR	940	5582	NR
425	67971	NR	555	309255	NR	685	50737	NR	815	6951	NR	945	6681	NR
430	112169	NR	560	313346	NR	690	45019	NR	820	6164	NR	950	11467	NR
435	175042	NR	565	316467	NR	695	39302	NR	825	6223	NR	955	8479	NR
440	270331	NR	570	318291	NR	700	34342	NR	830	6882	NR	960	6322	NR
445	415458	NR	575	317762	NR	705	30709	NR	835	7035	NR	965	10418	NR
450	473704	NR	580	316909	NR	710	27863	NR	840	7196	NR	970	11212	NR
455	340246	NR	585	310908	NR	715	25645	NR	845	7661	NR	975	9921	NR
460	214204	NR	590	304222	NR	720	22546	NR	850	7691	NR	980	7645	NR
465	151767	NR	595	293404	NR	725	20358	NR	855	8165	NR	985	7411	NR
470	101801	NR	600	281357	NR	730	18023	NR	860	6918	NR	990	11268	NR
475	68160	NR	605	267848	NR	735	16491	NR	865	6985	NR	995	16172	NR
480	54940	NR	610	252294	NR	740	14653	NR	870	9265	NR	1000	12246	NR
485	51233	NR	615	235449	NR	745	13435	NR	875	8266	NR			

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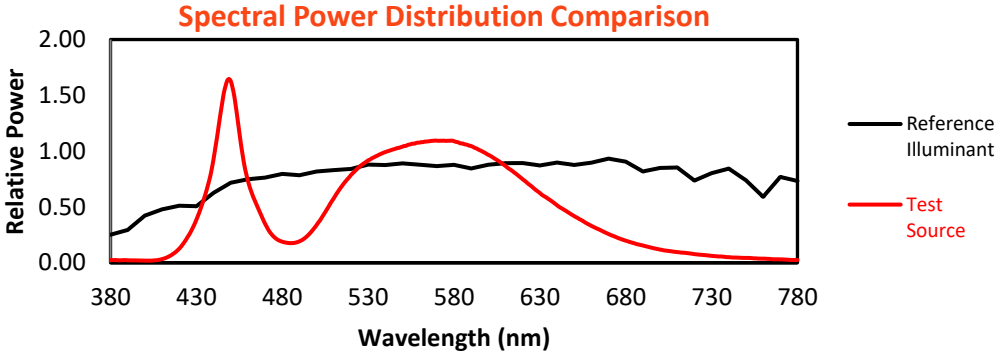
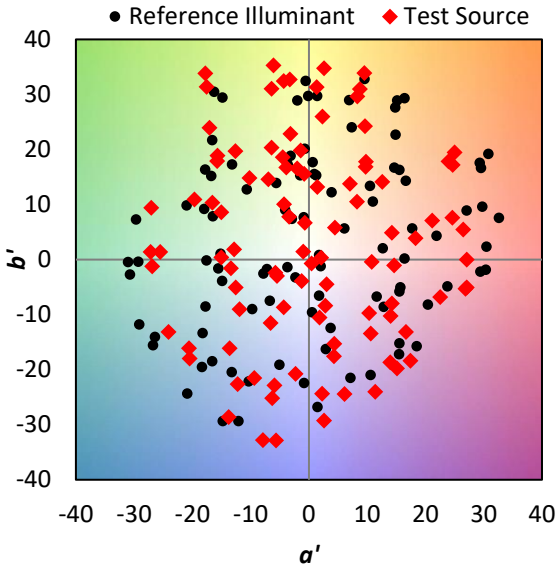
Summary

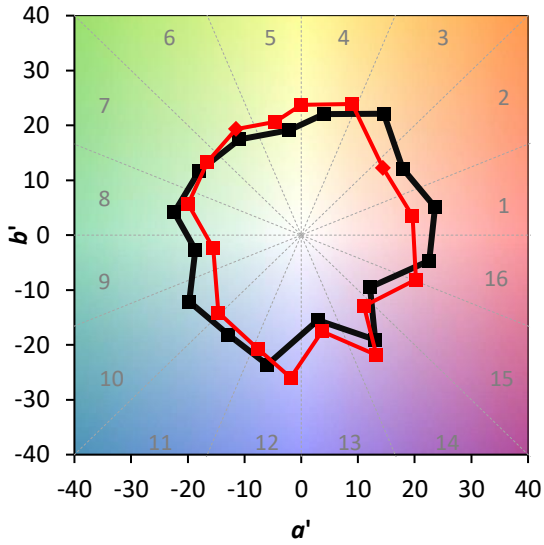
R_f = 72.8
R_g = 94.3
CIE R_a = 71.4
R_9 = -30.1

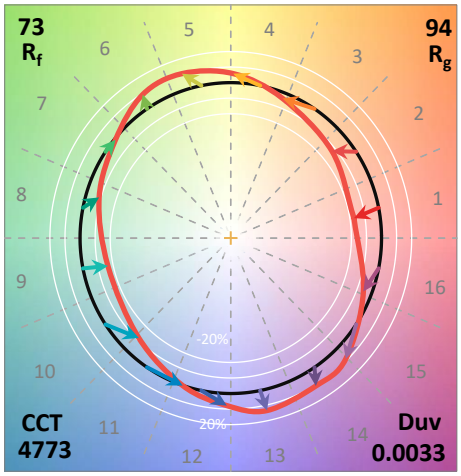
Spectral Power Distribution Comparison

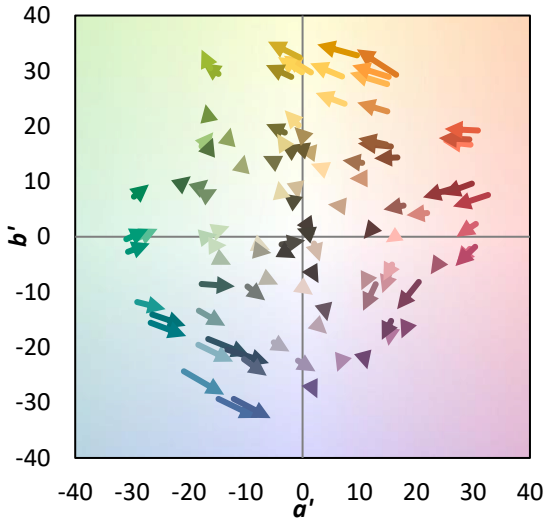


Color Vector Graphics









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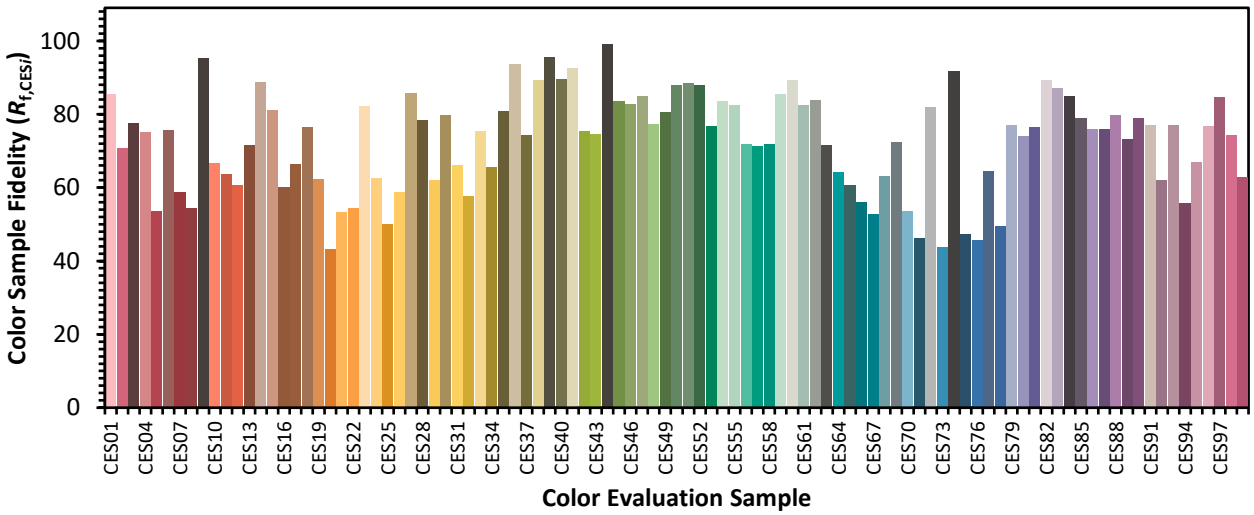
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 59	CES51 = 88	CES76 = 46
CES02 = 60	CES27 = 86	CES52 = 88	CES77 = 65
CES03 = 30	CES28 = 78	CES53 = 77	CES78 = 49
CES04 = 69	CES29 = 62	CES54 = 84	CES79 = 77
CES05 = 46	CES30 = 80	CES55 = 82	CES80 = 74
CES06 = 50	CES31 = 66	CES56 = 72	CES81 = 77
CES07 = 39	CES32 = 58	CES57 = 71	CES82 = 89
CES08 = 38	CES33 = 75	CES58 = 72	CES83 = 87
CES09 = 29	CES34 = 66	CES59 = 85	CES84 = 85
CES10 = 73	CES35 = 81	CES60 = 89	CES85 = 79
CES11 = 56	CES36 = 94	CES61 = 83	CES86 = 76
CES12 = 62	CES37 = 74	CES62 = 84	CES87 = 76
CES13 = 41	CES38 = 89	CES63 = 72	CES88 = 80
CES14 = 74	CES39 = 95	CES64 = 64	CES89 = 73
CES15 = 70	CES40 = 89	CES65 = 61	CES90 = 79
CES16 = 46	CES41 = 92	CES66 = 56	CES91 = 77
CES17 = 49	CES42 = 75	CES67 = 53	CES92 = 62
CES18 = 55	CES43 = 75	CES68 = 63	CES93 = 77
CES19 = 71	CES44 = 99	CES69 = 72	CES94 = 56
CES20 = 64	CES45 = 84	CES70 = 53	CES95 = 67
CES21 = 85	CES46 = 83	CES71 = 46	CES96 = 77
CES22 = 77	CES47 = 85	CES72 = 82	CES97 = 85
CES23 = 91	CES48 = 77	CES73 = 44	CES98 = 74
CES24 = 90	CES49 = 81	CES74 = 92	CES99 = 63
CES25 = 71	CES50 = 88	CES75 = 47	



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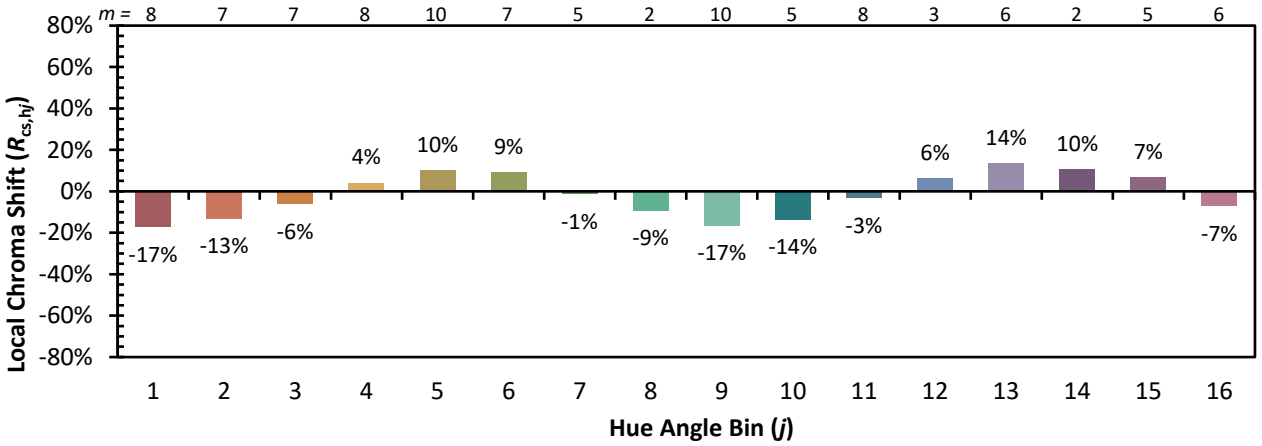
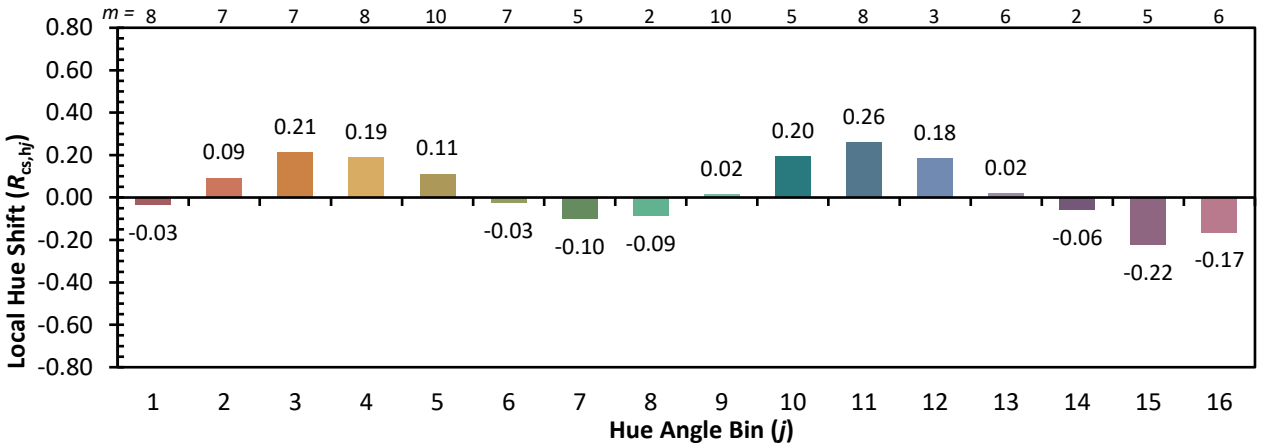
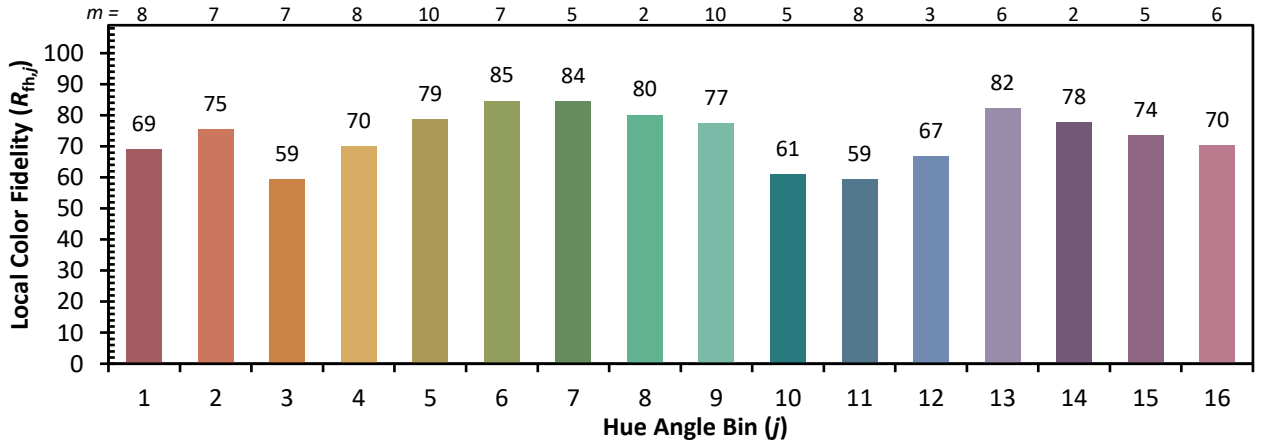
Color Rendition by Hue-Angle Bin







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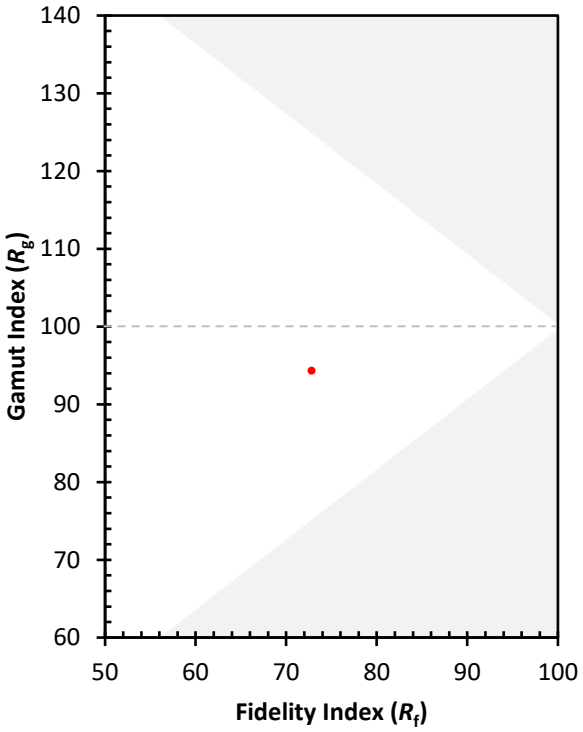
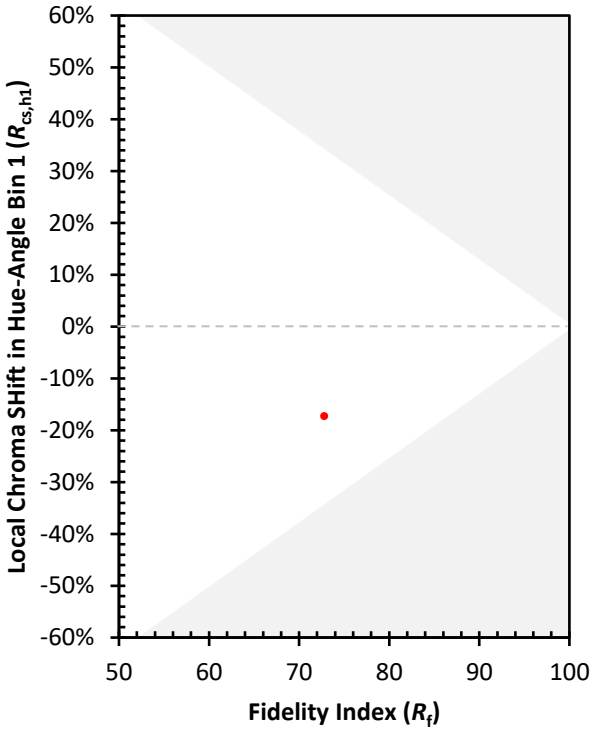
Measure Comparisons





(END OF REPORT)