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: METALUX

Report Number:

Luminaire Tested: EHBR1-12-UNV-N-L840-UPL24

Issue Date: 3/20/2026

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

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	
	REPORT IS A COMBINATION OF REPORTS P1431655 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	3/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-12-UNV-N-L840-UPL24
Description:	Elevate Round Highbay at, 12000 lumens, 4000K 80CRI LEDs with N lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	14826.4 lumens
Efficiency:	N/A
Efficacy:	182.6 lumens/watt
Spacing Criteria (0/90/45):	0.82 / 0.82 / 0.8
Luminous Opening:	Vertical Cylinder (Dia: 1.71' x H: 0.1')
CIE Type:	Semi-Direct

Input Watts (W):	81.2
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:	24 FT

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TEST NUMBER:
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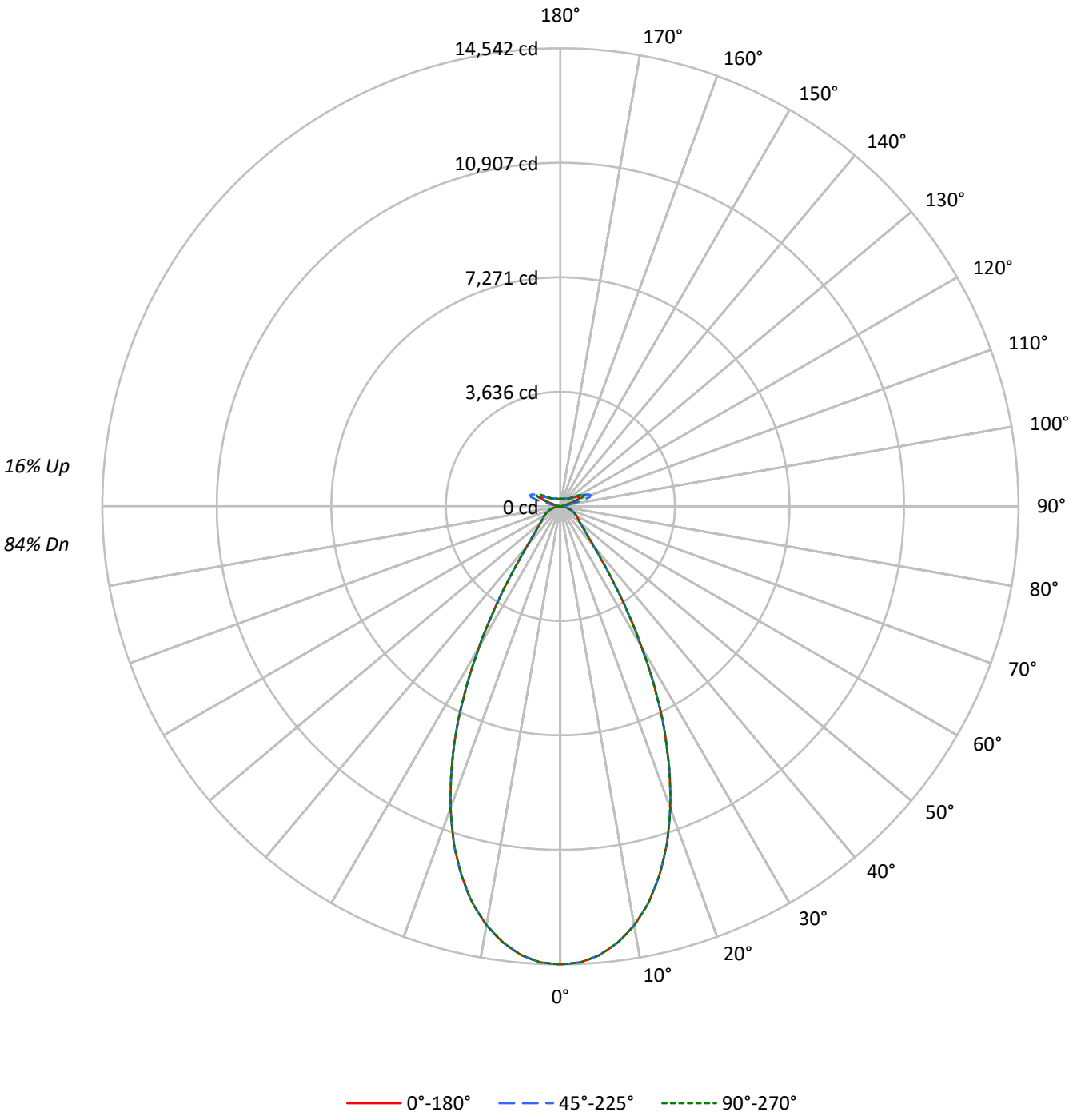
Luminous Intensity Polar Plot



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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	115	115	115	115	111	111	111	111	102	102	102	95	95	95	87	87	87	84
1	108	105	102	99	104	101	98	96	94	92	90	88	86	85	82	81	79	77
2	102	96	91	87	98	93	88	85	87	83	80	81	79	76	76	74	72	70
3	95	88	82	77	92	85	80	76	80	76	72	76	72	69	71	69	66	64
4	90	81	75	70	87	79	73	69	75	70	66	71	67	64	67	64	61	59
5	85	75	68	64	82	73	67	63	69	64	61	66	62	59	63	59	57	55
6	80	70	63	58	77	68	62	58	65	60	56	62	58	54	59	56	53	51
7	75	65	59	54	73	64	58	53	61	56	52	58	54	51	56	52	49	48
8	72	61	55	50	69	60	54	50	57	52	49	55	51	47	53	49	46	45
9	68	58	51	47	66	56	51	46	54	49	45	52	48	45	50	46	44	42
10	65	54	48	44	63	53	48	44	51	46	43	50	45	42	48	44	41	40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	68288	68288	68288
5°	66963	66963	66963
10°	63556	63556	63556
15°	57827	57827	57827
20°	49603	49603	49603
25°	39021	39021	39021
30°	26778	26778	26778
35°	15907	15907	15907
40°	9412	9412	9412
45°	6756	6756	6756
50°	5554	5554	5554
55°	5047	5047	5047
60°	4831	4831	4831
65°	4608	4608	4608
70°	4285	4285	4285
75°	3874	3874	3874
80°	3216	3216	3216
85°	2037	2037	2037

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6756 cd/sqm

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TEST NUMBER:
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1339.5	9.0
10°-20°	3362.4	22.7
20°-30°	3515.7	23.7
30°-40°	1904.9	12.8
40°-50°	876.4	5.9
50°-60°	617.6	4.2
60°-70°	475.3	3.2
70°-80°	288.1	1.9
80°-90°	85.4	0.6
90°-100°	67.4	0.5
100°-110°	421.8	2.8
110°-120°	754.4	5.1
120°-130°	442.6	3.0
130°-140°	271.5	1.8
140°-150°	188.3	1.3
150°-160°	122.4	0.8
160°-170°	69.7	0.5
170°-180°	23.0	0.2
0°-30°	8217.6	55.4
0°-40°	10122.5	68.3
0°-60°	11616.4	78.3
0°-90°	12465.3	84.1
90°-120°	1243.6	8.4
90°-150°	2146.0	14.5
90°-180°	2361.0	15.9
0°-180°	14826.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14542	14542	14542	14542	14542	
5°	14298	14298	14298	14298	14298	1340
15°	12132	12132	12132	12132	12132	3362
25°	7792	7792	7792	7792	7792	3516
35°	2920	2920	2920	2920	2920	1905
45°	1093	1093	1093	1093	1093	876
55°	682	682	682	682	682	618
65°	481	481	481	481	481	475
75°	273	273	273	273	273	288
85°	70	70	70	70	70	78
90°	18	29	49	32	18	12
95°	30	50	110	54	34	29
105°	147	291	742	320	195	197
115°	678	714	877	841	835	625
125°	489	457	469	476	534	446
135°	357	346	358	336	335	279
145°	293	289	307	303	301	186
155°	257	254	266	266	266	120
165°	241	241	247	247	246	69
175°	238	238	242	242	242	23
180°	241	241	241	241	241	

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TEST NUMBER:
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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*14541.5*	*14541.5*	*14541.5*	*14541.5*	*14541.5*
2.5°	*14490.0*	14490.0	14490.0	14490.0	14490.0
5°	*14297.6*	14297.6	14297.6	14297.6	14297.6
7.5°	*13969.2*	13969.2	13969.2	13969.2	13969.2
10°	*13503.3*	13503.3	13503.3	13503.3	13503.3
12.5°	*12901.1*	12901.1	12901.1	12901.1	12901.1
15°	*12131.8*	12131.8	12131.8	12131.8	12131.8
17.5°	*11239.3*	11239.3	11239.3	11239.3	11239.3
20°	*10194.8*	10194.8	10194.8	10194.8	10194.8
22.5°	*9031.9*	9031.9	9031.9	9031.9	9031.9
25°	*7792.4*	7792.4	7792.4	7792.4	7792.4
27.5°	*6478.3*	6478.3	6478.3	6478.3	6478.3
30°	*5150.7*	5150.7	5150.7	5150.7	5150.7
32.5°	*3953.0*	3953.0	3953.0	3953.0	3953.0
35°	*2919.5*	2919.5	2919.5	2919.5	2919.5
37.5°	*2143.6*	2143.6	2143.6	2143.6	2143.6
40°	*1631.3*	1631.3	1631.3	1631.3	1631.3
42.5°	*1308.1*	1308.1	1308.1	1308.1	1308.1
45°	*1093.1*	1093.1	1093.1	1093.1	1093.1
47.5°	*938.3*	938.3	938.3	938.3	938.3
50°	*827.7*	827.7	827.7	827.7	827.7
52.5°	*746.9*	746.9	746.9	746.9	746.9
55°	*682.1*	682.1	682.1	682.1	682.1
57.5°	*629.5*	629.5	629.5	629.5	629.5
60°	*580.8*	580.8	580.8	580.8	580.8
62.5°	*532.2*	532.2	532.2	532.2	532.2
65°	*481.0*	481.0	481.0	481.0	481.0
67.5°	*428.8*	428.8	428.8	428.8	428.8
70°	*376.0*	376.0	376.0	376.0	376.0
72.5°	*324.7*	324.7	324.7	324.7	324.7
75°	*272.9*	272.9	272.9	272.9	272.9
77.5°	*222.2*	222.2	222.2	222.2	222.2
80°	*169.2*	169.2	169.2	169.2	169.2
82.5°	*118.4*	118.4	118.4	118.4	118.4
85°	*70.0*	70.0	70.0	70.0	70.0
87.5°	*25.1*	25.1	25.1	25.1	25.1
90°	*18.0*	28.8	49.1	31.5	18.0
92.5°	*25.7*	43.3	78.4	40.5	23.0
95°	*29.7*	50.0	109.5	54.1	33.8
97.5°	*37.8*	55.4	125.7	66.2	52.7
100°	*50.0*	64.9	196.0	81.1	70.3
102.5°	*85.1*	137.9	416.3	152.7	106.8
105°	*147.3*	290.6	742.0	320.3	194.6
107.5°	*255.4*	520.4	978.5	567.7	369.0
110°	*477.1*	690.6	1025.8	779.9	590.6

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TEST NUMBER:
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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	*644.7*	742.0	982.6	860.9	769.0
115°	*678.5*	713.6	877.2	840.7	835.3
117.5°	*655.5*	651.5	744.7	755.5	806.9
120°	*606.9*	579.8	621.7	659.6	728.5
122.5°	*546.0*	513.6	532.5	560.9	629.8
125°	*489.3*	456.8	469.0	475.8	533.9
127.5°	*439.3*	417.6	424.4	416.3	452.8
130°	*405.5*	386.5	396.0	377.1	394.7
132.5°	*377.1*	364.9	375.7	352.8	358.2
135°	*356.8*	346.0	358.2	336.5	335.2
137.5°	*339.2*	329.8	341.9	325.7	321.7
140°	*323.0*	314.9	328.4	316.3	313.6
142.5°	*305.5*	300.0	316.3	308.2	305.5
145°	*293.3*	289.2	306.8	302.8	301.4
147.5°	*282.5*	279.8	296.0	294.6	294.6
150°	*273.0*	270.3	286.5	285.2	286.5
152.5°	*263.6*	260.9	275.7	274.4	275.7
155°	*256.8*	254.1	266.3	266.3	266.3
157.5°	*251.4*	250.0	259.5	259.5	259.5
160°	*247.3*	246.0	254.1	254.1	252.7
162.5°	*243.3*	241.9	251.4	250.0	250.0
165°	*240.6*	240.6	247.3	247.3	246.0
167.5°	*240.6*	239.2	246.0	246.0	244.6
170°	*239.2*	239.2	244.6	243.3	241.9
172.5°	*239.2*	239.2	244.6	243.3	241.9
175°	*237.9*	237.9	241.9	241.9	241.9
177.5°	*239.2*	239.2	241.9	241.9	240.6
180°	*240.6*	240.6	240.6	240.6	240.6

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TEST NUMBER: CATALOG
CATALOG NUMBER: EHBR1-12-UNV-N-L840-UPL24

CIE UGR TABLE:

Reflectances:											
	Ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
	Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
	Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.82	13.78	13.44	14.39	15.08	12.82	13.78	13.44	14.39	15.08
	3H	14.59	15.44	15.23	16.07	16.80	14.59	15.44	15.23	16.07	16.80
	4H	15.25	16.04	15.91	16.68	17.43	15.25	16.04	15.91	16.68	17.43
	6H	15.70	16.44	16.37	17.09	17.84	15.70	16.44	16.37	17.09	17.84
	8H	15.82	16.52	16.51	17.18	17.95	15.82	16.52	16.51	17.18	17.95
	12H	15.87	16.54	16.56	17.19	17.98	15.87	16.54	16.56	17.19	17.98
4H	2H	13.35	14.15	14.01	14.79	15.53	13.35	14.15	14.01	14.79	15.53
	3H	15.32	15.98	15.99	16.66	17.42	15.32	15.98	15.99	16.66	17.42
	4H	16.09	16.68	16.77	17.37	18.16	16.09	16.68	16.77	17.37	18.16
	6H	16.66	17.17	17.37	17.88	18.69	16.66	17.17	17.37	17.88	18.69
	8H	16.81	17.29	17.53	18.00	18.81	16.81	17.29	17.53	18.00	18.81
	12H	16.89	17.31	17.62	18.04	18.86	16.89	17.31	17.62	18.04	18.86
8H	4H	16.31	16.79	17.03	17.49	18.31	16.31	16.79	17.03	17.49	18.31
	6H	17.00	17.38	17.74	18.13	18.95	17.00	17.38	17.74	18.13	18.95
	8H	17.22	17.56	17.98	18.32	19.15	17.22	17.56	17.98	18.32	19.15
	12H	17.35	17.65	18.11	18.39	19.29	17.35	17.65	18.11	18.39	19.29
12H	4H	16.31	16.73	17.04	17.46	18.28	16.31	16.73	17.04	17.46	18.28
	6H	17.02	17.36	17.78	18.12	18.95	17.02	17.36	17.78	18.12	18.95
	8H	17.28	17.58	18.03	18.32	19.22	17.28	17.58	18.03	18.32	19.22

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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: SP1-2506-472-1

Test Date: 07/30/2025

Luminaire Tested: EHBR-60-L840-N

Data in this report applies to families of products including EHBR-60-L840-N

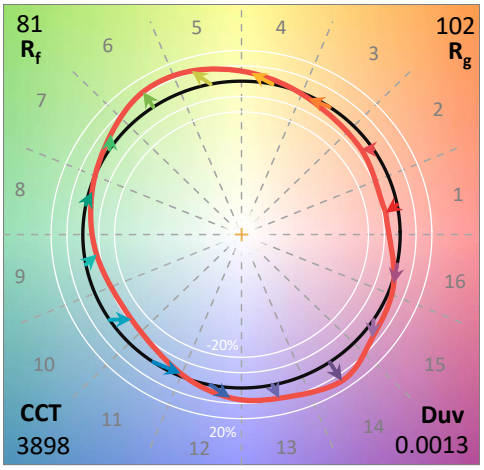
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2506-472-1
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	08/05/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Metalux
Catalog Number:	**EHBR-60-L840-N**
Description:	Elevate Round Highbay at, 60000 lumens, 4000K 80CRI LEDs with N lens

Spectral Parameters

CCT (K):	3898	CRI (Ra):	82.1		
CIE u':	0.2263	R1:	84.4	R9:	38.5
CIE v':	0.5052	R2:	83.5	R10:	58.9
Duv:	0.0013	R3:	80.8	R11:	83.6
CIE x:	0.3861	R4:	83.9	R12:	54.2
CIE y:	0.3831	R5:	82.1	R13:	82.8
CIE z:	0.2308	R6:	77.3	R14:	88.2
Peak Wavelength (nm):	630	R7:	86.4	R15:	81.2
Dominant Wavelength (nm):	578	R8:	78.3		
Purity:	30.85729				
Rf:	80.7				
Rg:	102.1				



Test Conditions

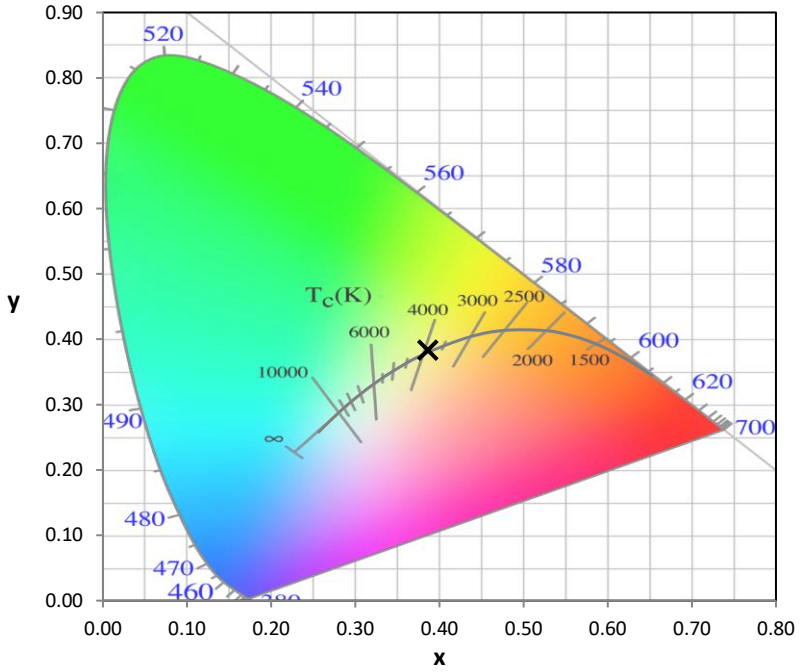
Stabilization Time:	42M
Operation Time:	1H 42M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-1

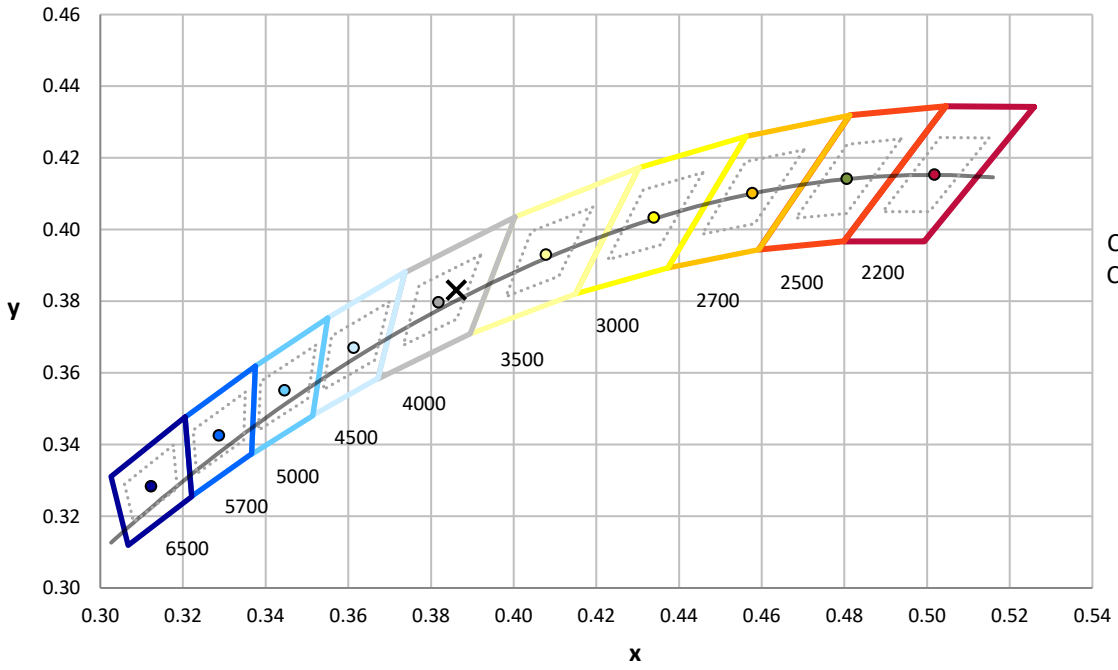
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	10/22/2024	10/22/2025
Sphere Thermometer	ONSET IN0085	10/22/2024	10/22/2025
Room Thermometer	ONSET IN0046	10/22/2024	10/22/2025

REPORT NUMBER: SP1-2506-472-1

CIE 1931 Chromaticity Diagram



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

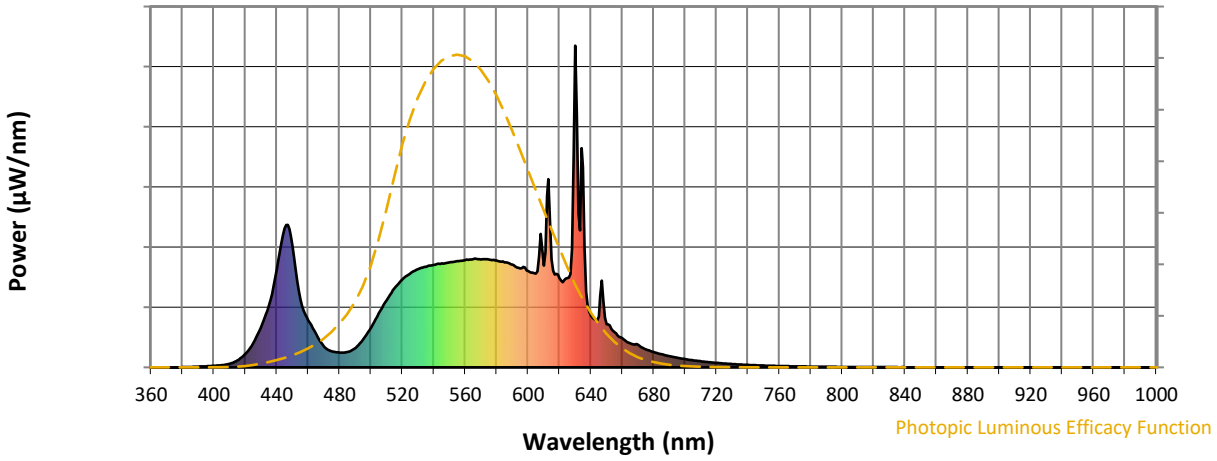


CCT = 3898K
CIE x = 0.3861
CIE y = 0.3831
Duv = 0.0013

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-1

Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	60	NR	620	277	NR	750	6	NR	880	0	NR
365	0	NR	495	87	NR	625	278	NR	755	5	NR	885	0	NR
370	0	NR	500	124	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	168	NR	635	623	NR	765	4	NR	895	0	NR
380	1	NR	510	209	NR	640	162	NR	770	3	NR	900	0	NR
385	1	NR	515	246	NR	645	158	NR	775	3	NR	905	0	NR
390	2	NR	520	273	NR	650	134	NR	780	2	NR	910	0	NR
395	4	NR	525	292	NR	655	109	NR	785	2	NR	915	0	NR
400	5	NR	530	305	NR	660	91	NR	790	2	NR	920	0	NR
405	7	NR	535	313	NR	665	75	NR	795	2	NR	925	0	NR
410	11	NR	540	319	NR	670	70	NR	800	1	NR	930	0	NR
415	21	NR	545	323	NR	675	56	NR	805	1	NR	935	0	NR
420	42	NR	550	326	NR	680	47	NR	810	1	NR	940	0	NR
425	76	NR	555	330	NR	685	41	NR	815	1	NR	945	0	NR
430	125	NR	560	333	NR	690	35	NR	820	1	NR	950	0	NR
435	193	NR	565	336	NR	695	30	NR	825	1	NR	955	0	NR
440	302	NR	570	336	NR	700	26	NR	830	1	NR	960	0	NR
445	432	NR	575	335	NR	705	22	NR	835	1	NR	965	0	NR
450	380	NR	580	332	NR	710	19	NR	840	0	NR	970	0	NR
455	213	NR	585	326	NR	715	16	NR	845	0	NR	975	0	NR
460	147	NR	590	319	NR	720	14	NR	850	0	NR	980	0	NR
465	104	NR	595	307	NR	725	12	NR	855	0	NR	985	0	NR
470	65	NR	600	299	NR	730	10	NR	860	0	NR	990	0	NR
475	50	NR	605	291	NR	735	9	NR	865	0	NR	995	0	NR
480	46	NR	610	317	NR	740	8	NR	870	0	NR	1000	0	NR
485	47	NR	615	336	NR	745	7	NR	875	0	NR			

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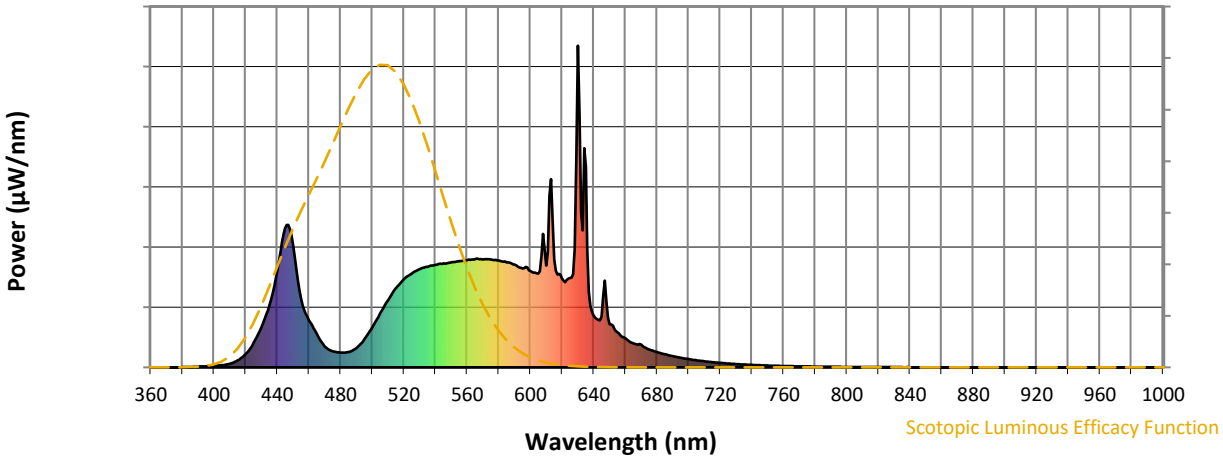
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.55**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	60	NR	620	277	NR	750	6	NR	880	0	NR
365	0	NR	495	87	NR	625	278	NR	755	5	NR	885	0	NR
370	0	NR	500	124	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	168	NR	635	623	NR	765	4	NR	895	0	NR
380	1	NR	510	209	NR	640	162	NR	770	3	NR	900	0	NR
385	1	NR	515	246	NR	645	158	NR	775	3	NR	905	0	NR
390	2	NR	520	273	NR	650	134	NR	780	2	NR	910	0	NR
395	4	NR	525	292	NR	655	109	NR	785	2	NR	915	0	NR
400	5	NR	530	305	NR	660	91	NR	790	2	NR	920	0	NR
405	7	NR	535	313	NR	665	75	NR	795	2	NR	925	0	NR
410	11	NR	540	319	NR	670	70	NR	800	1	NR	930	0	NR
415	21	NR	545	323	NR	675	56	NR	805	1	NR	935	0	NR
420	42	NR	550	326	NR	680	47	NR	810	1	NR	940	0	NR
425	76	NR	555	330	NR	685	41	NR	815	1	NR	945	0	NR
430	125	NR	560	333	NR	690	35	NR	820	1	NR	950	0	NR
435	193	NR	565	336	NR	695	30	NR	825	1	NR	955	0	NR
440	302	NR	570	336	NR	700	26	NR	830	1	NR	960	0	NR
445	432	NR	575	335	NR	705	22	NR	835	1	NR	965	0	NR
450	380	NR	580	332	NR	710	19	NR	840	0	NR	970	0	NR
455	213	NR	585	326	NR	715	16	NR	845	0	NR	975	0	NR
460	147	NR	590	319	NR	720	14	NR	850	0	NR	980	0	NR
465	104	NR	595	307	NR	725	12	NR	855	0	NR	985	0	NR
470	65	NR	600	299	NR	730	10	NR	860	0	NR	990	0	NR
475	50	NR	605	291	NR	735	9	NR	865	0	NR	995	0	NR
480	46	NR	610	317	NR	740	8	NR	870	0	NR	1000	0	NR
485	47	NR	615	336	NR	745	7	NR	875	0	NR			

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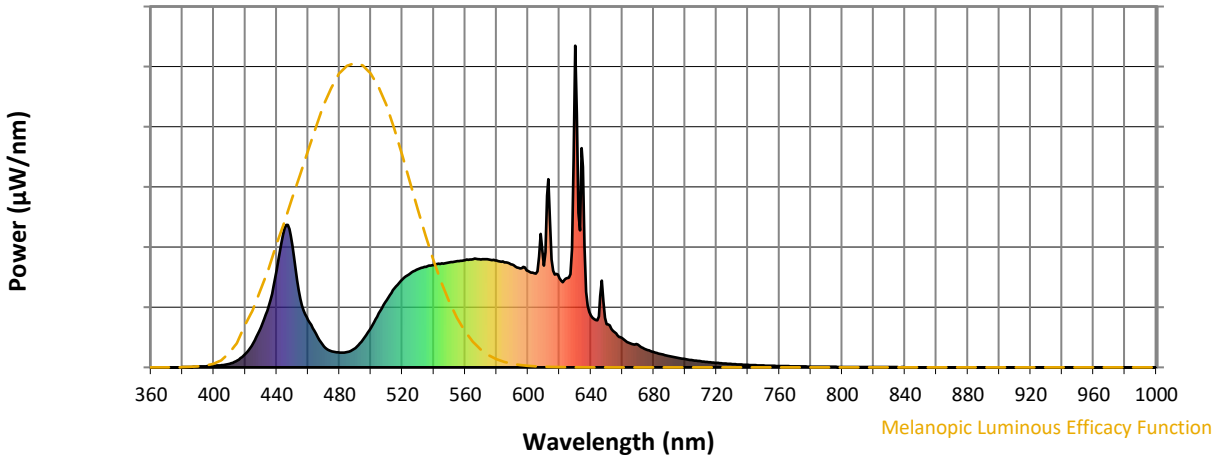
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.99**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	60	NR	620	277	NR	750	6	NR	880	0	NR
365	0	NR	495	87	NR	625	278	NR	755	5	NR	885	0	NR
370	0	NR	500	124	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	168	NR	635	623	NR	765	4	NR	895	0	NR
380	1	NR	510	209	NR	640	162	NR	770	3	NR	900	0	NR
385	1	NR	515	246	NR	645	158	NR	775	3	NR	905	0	NR
390	2	NR	520	273	NR	650	134	NR	780	2	NR	910	0	NR
395	4	NR	525	292	NR	655	109	NR	785	2	NR	915	0	NR
400	5	NR	530	305	NR	660	91	NR	790	2	NR	920	0	NR
405	7	NR	535	313	NR	665	75	NR	795	2	NR	925	0	NR
410	11	NR	540	319	NR	670	70	NR	800	1	NR	930	0	NR
415	21	NR	545	323	NR	675	56	NR	805	1	NR	935	0	NR
420	42	NR	550	326	NR	680	47	NR	810	1	NR	940	0	NR
425	76	NR	555	330	NR	685	41	NR	815	1	NR	945	0	NR
430	125	NR	560	333	NR	690	35	NR	820	1	NR	950	0	NR
435	193	NR	565	336	NR	695	30	NR	825	1	NR	955	0	NR
440	302	NR	570	336	NR	700	26	NR	830	1	NR	960	0	NR
445	432	NR	575	335	NR	705	22	NR	835	1	NR	965	0	NR
450	380	NR	580	332	NR	710	19	NR	840	0	NR	970	0	NR
455	213	NR	585	326	NR	715	16	NR	845	0	NR	975	0	NR
460	147	NR	590	319	NR	720	14	NR	850	0	NR	980	0	NR
465	104	NR	595	307	NR	725	12	NR	855	0	NR	985	0	NR
470	65	NR	600	299	NR	730	10	NR	860	0	NR	990	0	NR
475	50	NR	605	291	NR	735	9	NR	865	0	NR	995	0	NR
480	46	NR	610	317	NR	740	8	NR	870	0	NR	1000	0	NR
485	47	NR	615	336	NR	745	7	NR	875	0	NR			

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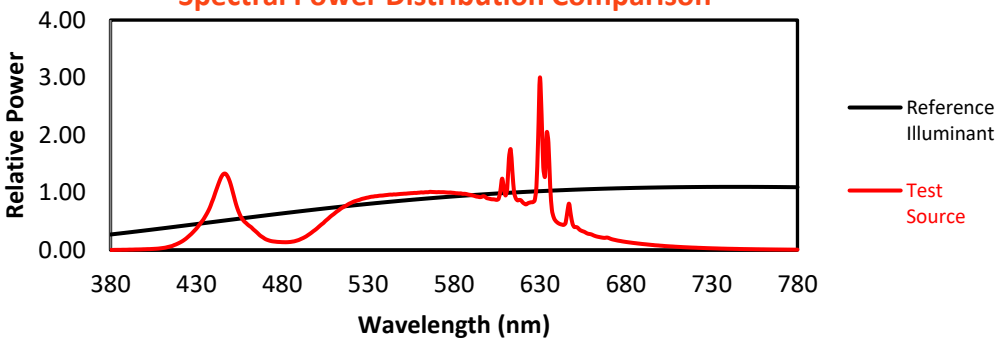
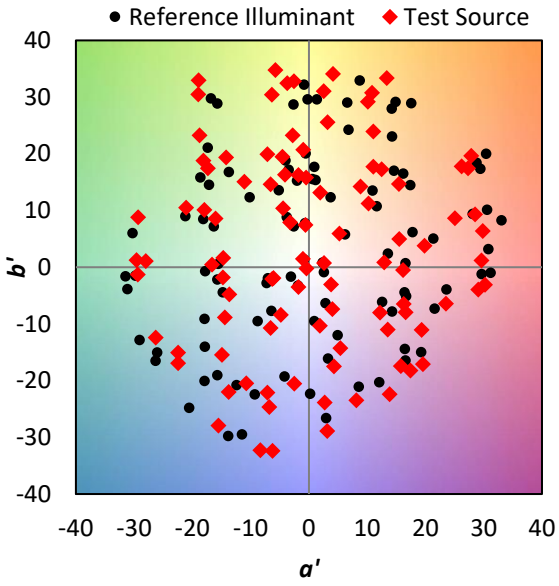
Summary

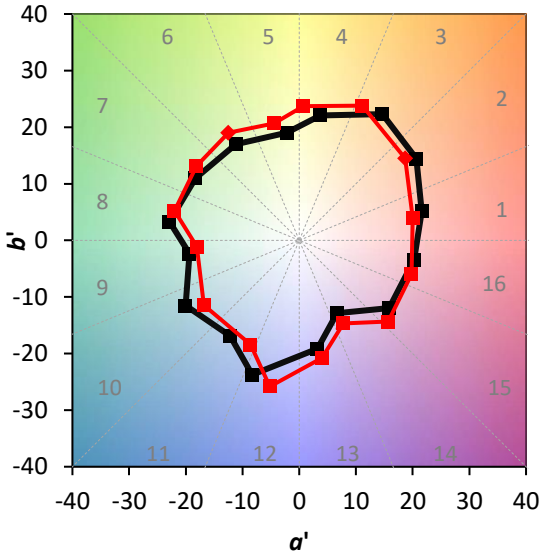
R_f = 80.7
R_g = 102.1
CIE R_a = 82.1
R_9 = 38.5

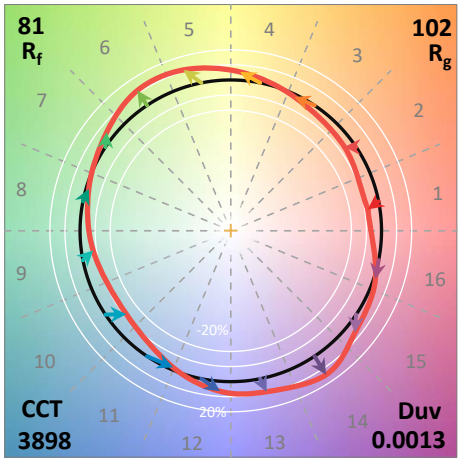
Spectral Power Distribution Comparison

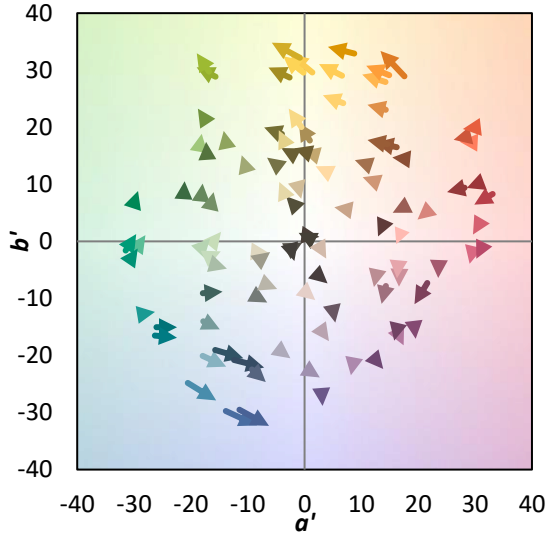


Color Vector Graphics









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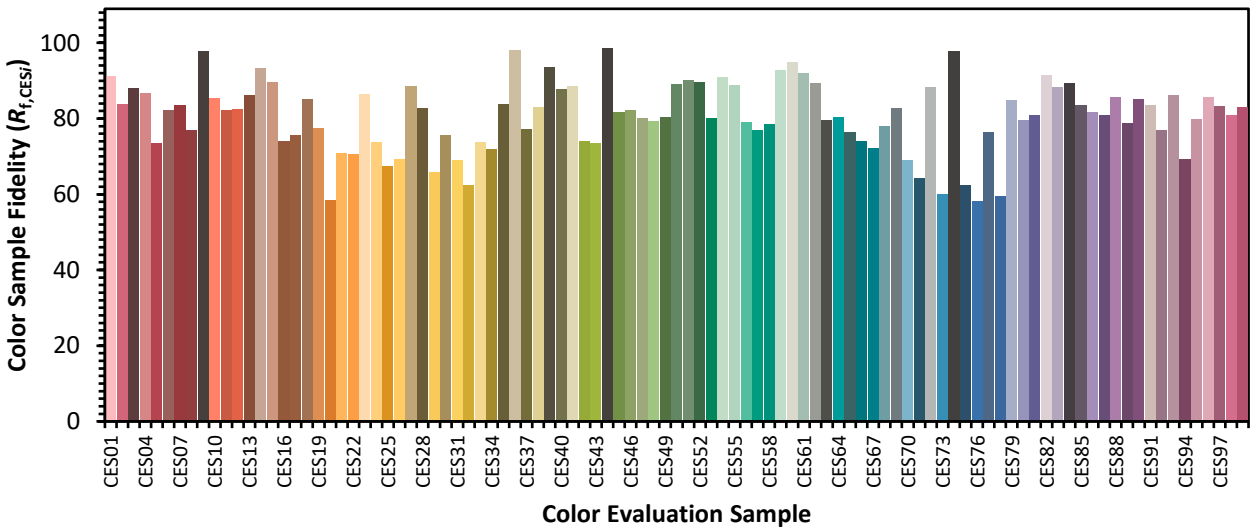
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 69	CES51 = 90	CES76 = 58
CES02 = 61	CES27 = 89	CES52 = 90	CES77 = 76
CES03 = 31	CES28 = 83	CES53 = 80	CES78 = 60
CES04 = 69	CES29 = 66	CES54 = 91	CES79 = 85
CES05 = 48	CES30 = 76	CES55 = 89	CES80 = 79
CES06 = 50	CES31 = 69	CES56 = 79	CES81 = 81
CES07 = 41	CES32 = 62	CES57 = 77	CES82 = 91
CES08 = 40	CES33 = 74	CES58 = 79	CES83 = 88
CES09 = 29	CES34 = 72	CES59 = 93	CES84 = 89
CES10 = 74	CES35 = 84	CES60 = 95	CES85 = 84
CES11 = 57	CES36 = 98	CES61 = 92	CES86 = 82
CES12 = 63	CES37 = 77	CES62 = 89	CES87 = 81
CES13 = 43	CES38 = 83	CES63 = 80	CES88 = 86
CES14 = 74	CES39 = 94	CES64 = 80	CES89 = 79
CES15 = 71	CES40 = 88	CES65 = 77	CES90 = 85
CES16 = 47	CES41 = 89	CES66 = 74	CES91 = 83
CES17 = 49	CES42 = 74	CES67 = 72	CES92 = 77
CES18 = 56	CES43 = 73	CES68 = 78	CES93 = 86
CES19 = 71	CES44 = 98	CES69 = 83	CES94 = 69
CES20 = 65	CES45 = 82	CES70 = 69	CES95 = 80
CES21 = 86	CES46 = 82	CES71 = 64	CES96 = 86
CES22 = 78	CES47 = 80	CES72 = 88	CES97 = 83
CES23 = 91	CES48 = 79	CES73 = 60	CES98 = 81
CES24 = 90	CES49 = 80	CES74 = 98	CES99 = 83
CES25 = 71	CES50 = 89	CES75 = 62	



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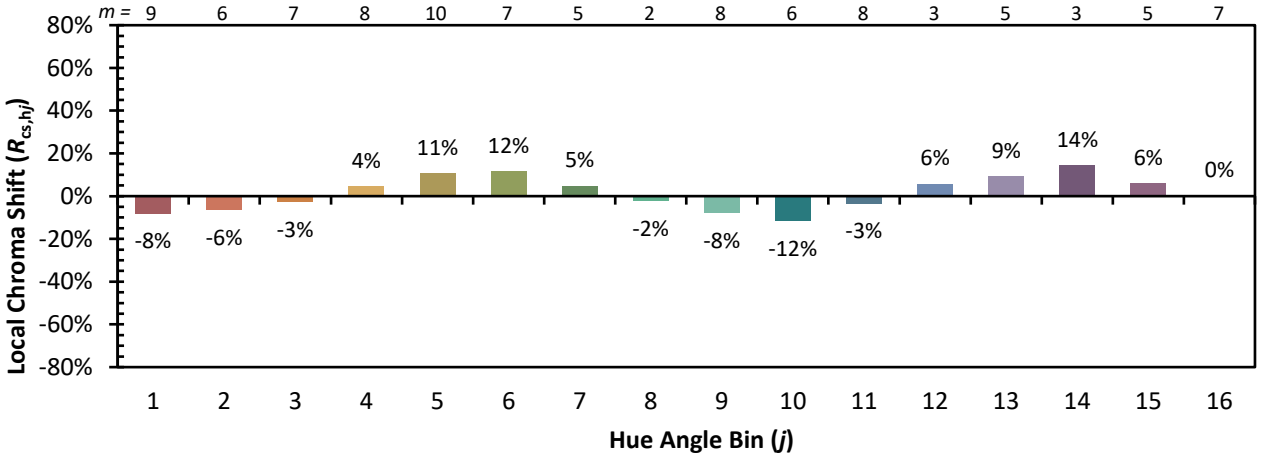
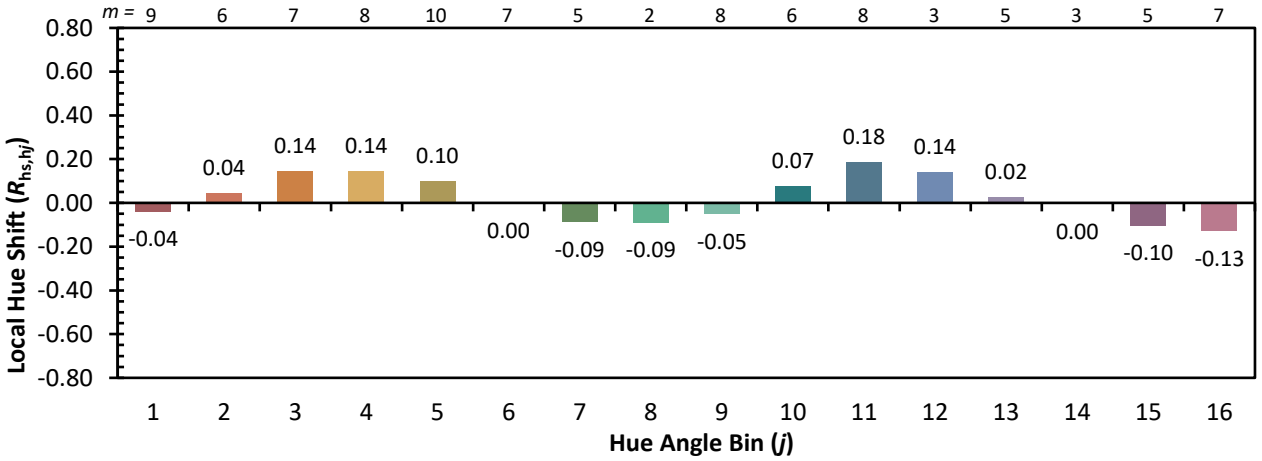
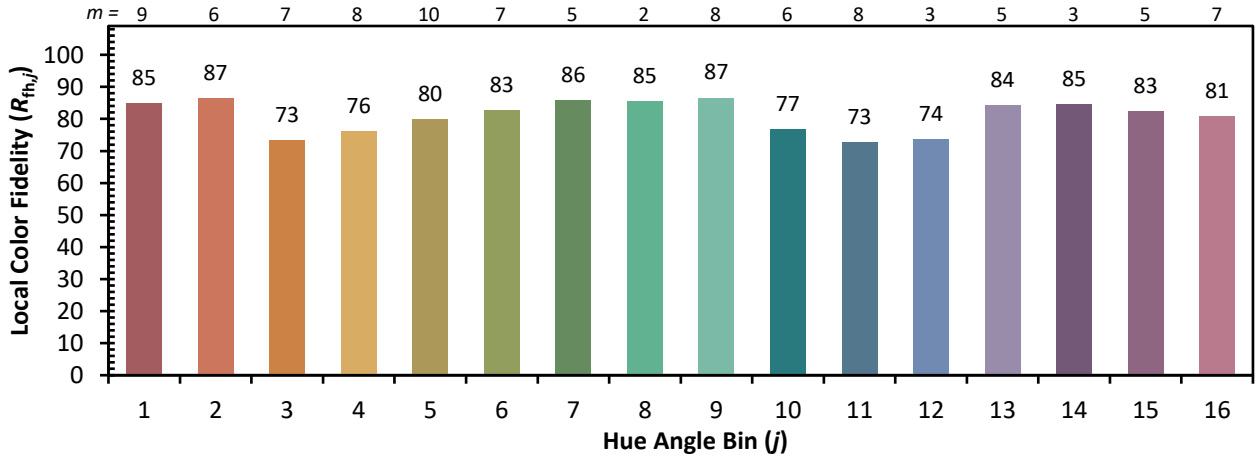
Color Rendition by Hue-Angle Bin







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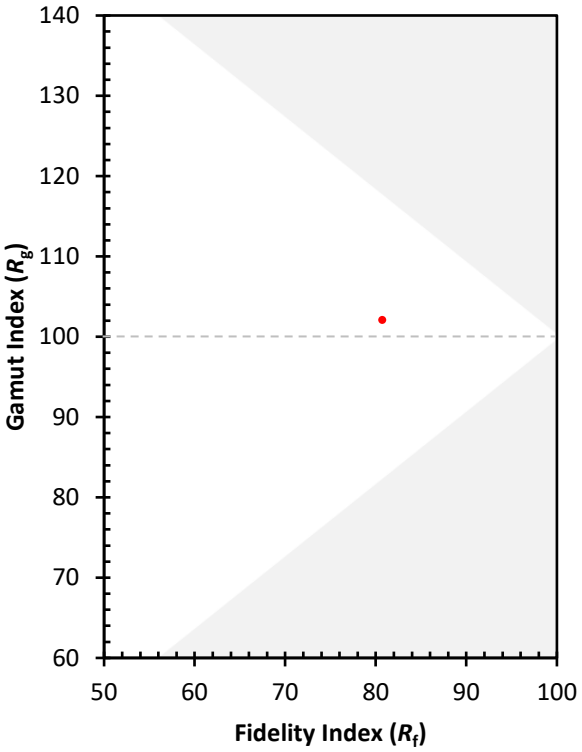
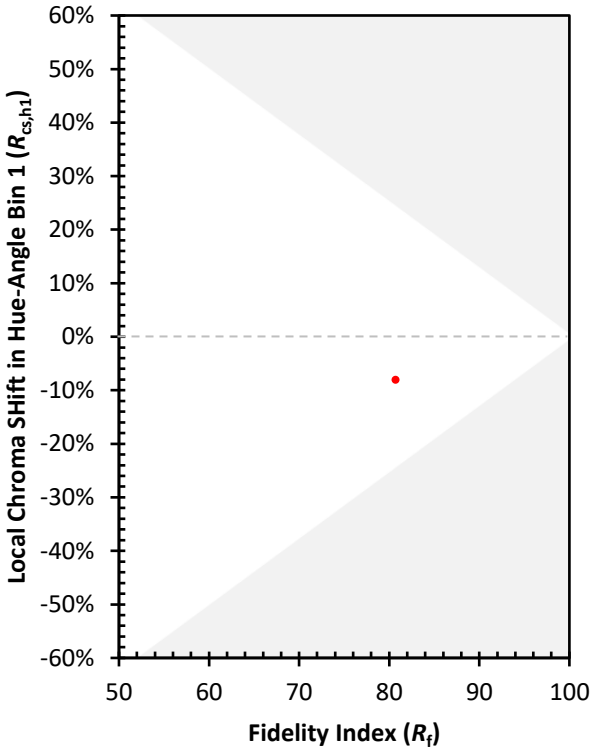
Measure Comparisons





(END OF REPORT)