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: P1432473

Luminaire Tested: EHBR1-48-UNV-N-L830-UPL40

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:	P1432473
	REPORT IS A COMBINATION OF REPORTS P1431850 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	3/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-48-UNV-N-L830-UPL40
Description:	Elevate Round Highbay at, 48000 lumens, 3000K 80CRI LEDs with N lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	48601.6 lumens
Efficiency:	N/A
Efficacy:	168.1 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:	Direct

Input Watts (W):	289.2
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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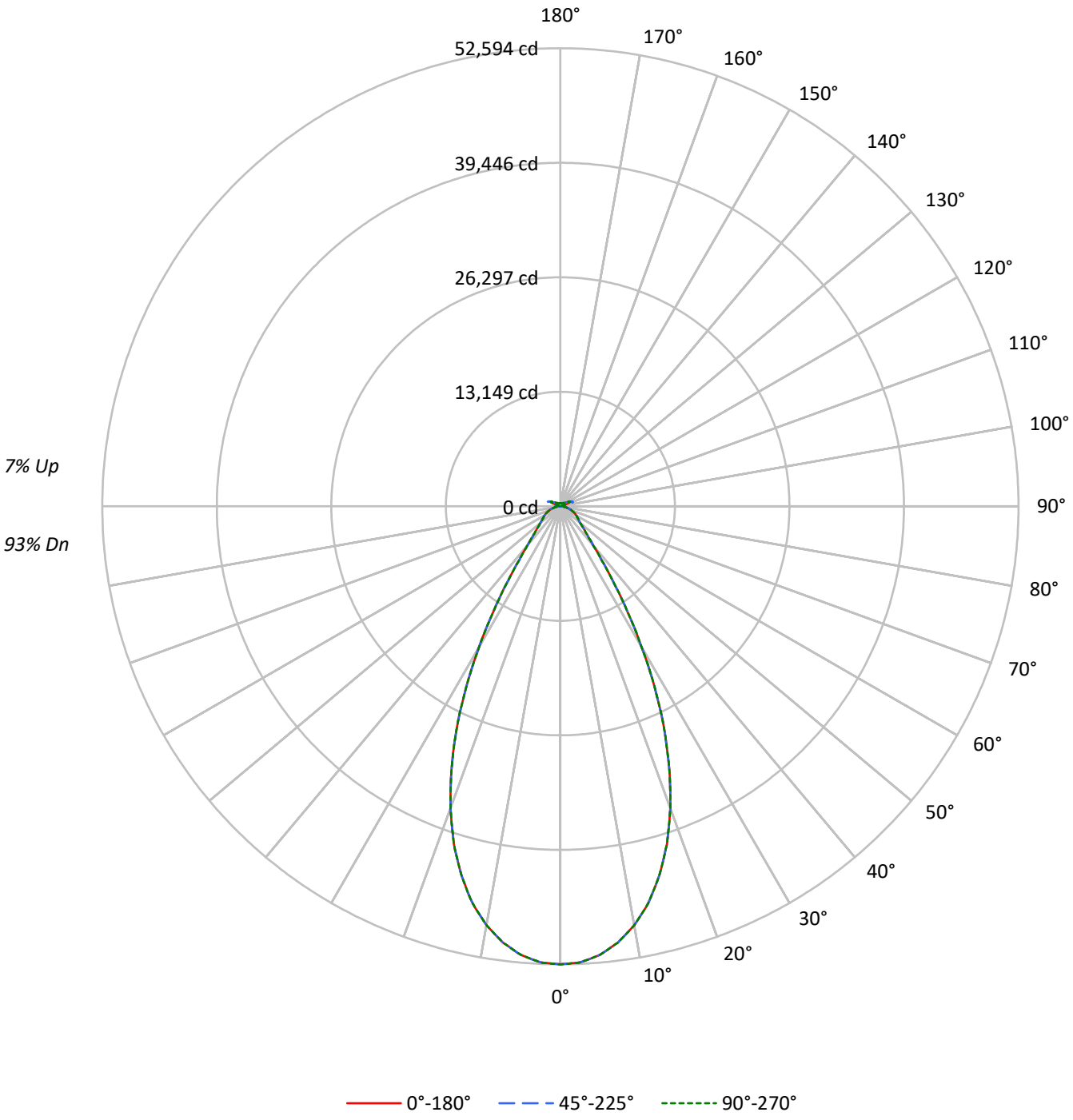
Luminous Intensity Polar Plot



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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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	110	107	104	102	107	104	102	99	99	97	95	94	92	91	89	88	87	84
2	104	98	93	89	101	96	91	88	91	88	85	87	84	82	83	81	79	77
3	98	90	85	80	95	88	83	79	85	80	77	81	78	75	78	75	73	71
4	92	84	77	73	90	82	76	72	79	74	70	76	72	69	73	70	67	65
5	87	78	71	66	85	76	70	66	74	68	65	71	67	63	69	65	62	60
6	82	73	66	61	80	71	65	61	69	64	60	67	62	59	65	61	58	56
7	78	68	61	57	76	67	61	56	65	60	56	63	58	55	61	57	54	52
8	74	64	57	53	72	63	57	53	61	56	52	60	55	51	58	54	51	49
9	71	60	54	50	69	59	53	49	58	53	49	56	52	48	55	51	48	46
10	67	57	51	47	66	56	50	46	55	50	46	54	49	46	52	48	45	44

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	246985	246985	246985
5°	242190	242190	242190
10°	229867	229867	229867
15°	209149	209149	209149
20°	179403	179403	179403
25°	141129	141129	141129
30°	96851	96851	96851
35°	57533	57533	57533
40°	34041	34041	34041
45°	24436	24436	24436
50°	20086	20086	20086
55°	18255	18255	18255
60°	17475	17475	17475
65°	16667	16667	16667
70°	15501	15501	15501
75°	14013	14013	14013
80°	11632	11632	11632
85°	7364	7364	7364

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 24436 cd/sqm

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CATALOG NUMBER: EHBR1-48-UNV-N-L830-UPL40

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4844.7	10.0
10°-20°	12161.0	25.0
20°-30°	12715.6	26.2
30°-40°	6889.7	14.2
40°-50°	3169.6	6.5
50°-60°	2233.7	4.6
60°-70°	1719.0	3.5
70°-80°	1042.1	2.1
80°-90°	299.9	0.6
90°-100°	100.7	0.2
100°-110°	630.0	1.3
110°-120°	1126.6	2.3
120°-130°	661.0	1.4
130°-140°	405.5	0.8
140°-150°	281.2	0.6
150°-160°	182.7	0.4
160°-170°	104.1	0.2
170°-180°	34.4	0.1
0°-30°	29721.4	61.2
0°-40°	36611.0	75.3
0°-60°	42014.3	86.4
0°-90°	45075.2	92.7
90°-120°	1857.3	3.8
90°-150°	3205.1	6.6
90°-180°	3526.0	7.3
0°-180°	48601.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	52594	52594	52594	52594	52594	
5°	51711	51711	51711	51711	51711	4845
15°	43878	43878	43878	43878	43878	12161
25°	28183	28183	28183	28183	28183	12716
35°	10559	10559	10559	10559	10559	6890
45°	3954	3954	3954	3954	3954	3170
55°	2467	2467	2467	2467	2467	2234
65°	1740	1740	1740	1740	1740	1719
75°	987	987	987	987	987	1042
85°	253	253	253	253	253	281
90°	28	44	74	48	28	25
95°	44	75	164	81	50	43
105°	220	434	1108	478	291	295
115°	1013	1066	1310	1256	1247	933
125°	731	682	700	710	797	666
135°	533	517	535	503	501	417
145°	438	432	458	452	450	277
155°	384	380	398	398	398	179
165°	359	359	369	369	367	103
175°	355	355	361	361	361	34
180°	359	359	359	359	359	

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TEST NUMBER: P1432473
CATALOG NUMBER: EHBR1-48-UNV-N-L830-UPL40

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	52593.7	52593.7	52593.7	52593.7	52593.7
2.5°	52407.2	52407.2	52407.2	52407.2	52407.2
5°	51711.4	51711.4	51711.4	51711.4	51711.4
7.5°	50523.6	50523.6	50523.6	50523.6	50523.6
10°	48838.4	48838.4	48838.4	48838.4	48838.4
12.5°	46660.6	46660.6	46660.6	46660.6	46660.6
15°	43878.3	43878.3	43878.3	43878.3	43878.3
17.5°	40650.3	40650.3	40650.3	40650.3	40650.3
20°	36872.6	36872.6	36872.6	36872.6	36872.6
22.5°	32666.6	32666.6	32666.6	32666.6	32666.6
25°	28183.4	28183.4	28183.4	28183.4	28183.4
27.5°	23430.7	23430.7	23430.7	23430.7	23430.7
30°	18629.2	18629.2	18629.2	18629.2	18629.2
32.5°	14297.3	14297.3	14297.3	14297.3	14297.3
35°	10559.3	10559.3	10559.3	10559.3	10559.3
37.5°	7753.0	7753.0	7753.0	7753.0	7753.0
40°	5900.1	5900.1	5900.1	5900.1	5900.1
42.5°	4731.0	4731.0	4731.0	4731.0	4731.0
45°	3953.7	3953.7	3953.7	3953.7	3953.7
47.5°	3393.4	3393.4	3393.4	3393.4	3393.4
50°	2993.5	2993.5	2993.5	2993.5	2993.5
52.5°	2701.5	2701.5	2701.5	2701.5	2701.5
55°	2467.0	2467.0	2467.0	2467.0	2467.0
57.5°	2276.8	2276.8	2276.8	2276.8	2276.8
60°	2100.8	2100.8	2100.8	2100.8	2100.8
62.5°	1924.7	1924.7	1924.7	1924.7	1924.7
65°	1739.7	1739.7	1739.7	1739.7	1739.7
67.5°	1551.1	1551.1	1551.1	1551.1	1551.1
70°	1360.1	1360.1	1360.1	1360.1	1360.1
72.5°	1174.4	1174.4	1174.4	1174.4	1174.4
75°	987.1	987.1	987.1	987.1	987.1
77.5°	803.6	803.6	803.6	803.6	803.6
80°	611.9	611.9	611.9	611.9	611.9
82.5°	428.4	428.4	428.4	428.4	428.4
85°	253.1	253.1	253.1	253.1	253.1
87.5°	90.6	90.6	90.6	90.6	90.6
90°	27.7	43.9	74.2	48.0	27.7
92.5°	38.3	64.6	117.1	60.5	34.3
95°	44.4	74.7	163.5	80.7	50.5
97.5°	56.5	82.7	187.7	98.9	78.7
100°	74.7	96.9	292.7	121.1	105.0
102.5°	127.2	205.9	621.7	228.1	159.4
105°	220.0	434.0	1108.1	478.4	290.7
107.5°	381.5	777.1	1461.4	847.7	551.1
110°	712.6	1031.4	1532.0	1164.6	882.1

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CATALOG NUMBER: EHBR1-48-UNV-N-L830-UPL40

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	*962.8*	1108.1	1467.4	1285.7	1148.5
115°	*1013.2*	1065.8	1310.0	1255.5	1247.4
117.5°	*979.0*	972.9	1112.2	1128.4	1205.0
120°	*906.3*	865.9	928.5	985.0	1088.0
122.5°	*815.5*	767.0	795.3	837.7	940.6
125°	*730.6*	682.2	700.4	710.5	797.3
127.5°	*656.0*	623.7	633.8	621.7	676.2
130°	*605.6*	577.3	591.4	563.1	589.4
132.5°	*563.1*	545.0	561.1	526.8	534.9
135°	*532.9*	516.7	534.9	502.6	500.6
137.5°	*506.7*	492.5	510.7	486.4	480.4
140°	*482.4*	470.3	490.5	472.3	468.3
142.5°	*456.2*	448.1	472.3	460.2	456.2
145°	*438.0*	431.9	458.1	452.1	450.1
147.5°	*421.9*	417.9	442.0	440.1	440.1
150°	*407.7*	403.7	427.9	425.9	427.9
152.5°	*393.6*	389.6	411.8	409.7	411.8
155°	*383.5*	379.5	397.6	397.6	397.6
157.5°	*375.4*	373.4	387.5	387.5	387.5
160°	*369.3*	367.4	379.5	379.5	377.5
162.5°	*363.3*	361.3	375.4	373.4	373.4
165°	*359.3*	359.3	369.3	369.3	367.4
167.5°	*359.3*	357.3	367.4	367.4	365.3
170°	*357.3*	357.3	365.3	363.3	361.3
172.5°	*357.3*	357.3	365.3	363.3	361.3
175°	*355.3*	355.3	361.3	361.3	361.3
177.5°	*357.3*	357.3	361.3	361.3	359.3
180°	*359.3*	359.3	359.3	359.3	359.3

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TEST NUMBER: P1432473
CATALOG NUMBER: EHBR1-48-UNV-N-L830-UPL40

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	17.98	19.04	18.48	19.50	20.00	17.98	19.04	18.48	19.50	20.00
	3H	19.76	20.70	20.27	21.18	21.72	19.76	20.70	20.27	21.18	21.72
	4H	20.42	21.29	20.95	21.79	22.35	20.42	21.29	20.95	21.79	22.35
	6H	20.88	21.68	21.42	22.20	22.77	20.88	21.68	21.42	22.20	22.77
	8H	21.00	21.76	21.56	22.29	22.87	21.00	21.76	21.56	22.29	22.87
	12H	21.05	21.78	21.61	22.30	22.91	21.05	21.78	21.61	22.30	22.91
4H	2H	18.52	19.40	19.05	19.90	20.46	18.52	19.40	19.05	19.90	20.46
	3H	20.49	21.22	21.03	21.76	22.34	20.49	21.22	21.03	21.76	22.34
	4H	21.26	21.92	21.82	22.47	23.08	21.26	21.92	21.82	22.47	23.08
	6H	21.83	22.40	22.42	22.97	23.61	21.83	22.40	22.42	22.97	23.61
	8H	21.99	22.52	22.58	23.09	23.73	21.99	22.52	22.58	23.09	23.73
	12H	22.07	22.53	22.68	23.14	23.78	22.07	22.53	22.68	23.14	23.78
8H	4H	21.49	22.02	22.08	22.59	23.23	21.49	22.02	22.08	22.59	23.23
	6H	22.17	22.60	22.80	23.22	23.87	22.17	22.60	22.80	23.22	23.87
	8H	22.40	22.77	23.04	23.41	24.07	22.40	22.77	23.04	23.41	24.07
	12H	22.54	22.86	23.17	23.48	24.21	22.54	22.86	23.17	23.48	24.21
12H	4H	21.49	21.95	22.10	22.56	23.20	21.49	21.95	22.10	22.56	23.20
	6H	22.20	22.58	22.84	23.21	23.87	22.20	22.58	22.84	23.21	23.87
	8H	22.46	22.79	23.10	23.41	24.14	22.46	22.79	23.10	23.41	24.14

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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: SP1-2506-472-2

Test Date: 07/31/2025

Luminaire Tested: EHBR-60-L830-N

Data in this report applies to families of products including EHBR-60-L830-N

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

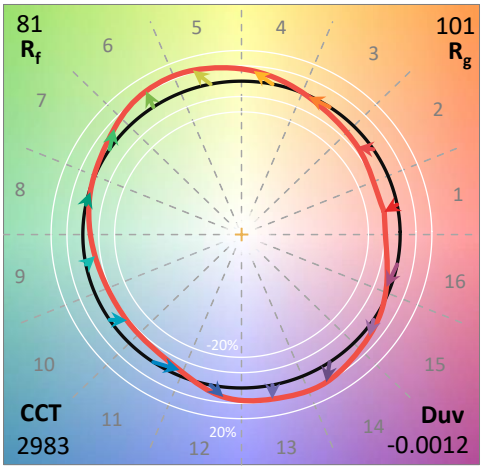
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2506-472-2
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-L830-N**
Description:	Elevate Round Highbay at, 60000 lumens, 3000K 80CRI LEDs with N lens

Spectral Parameters

CCT (K):	2983
CIE u':	0.2516
CIE v':	0.5201
Duv:	-0.0012
CIE x:	0.4364
CIE y:	0.4010
CIE z:	0.1626
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	583
Purity:	51.34918
Rf:	81.2
Rg:	101.5

CRI (Ra):	83.4				
R1:	84.0	R9:	29.4		
R2:	87.5	R10:	68.6		
R3:	88.9	R11:	82.2		
R4:	83.8	R12:	61.6		
R5:	81.9	R13:	83.9		
R6:	83.1	R14:	92.5		
R7:	87.1	R15:	79.8		
R8:	70.9				



Test Conditions

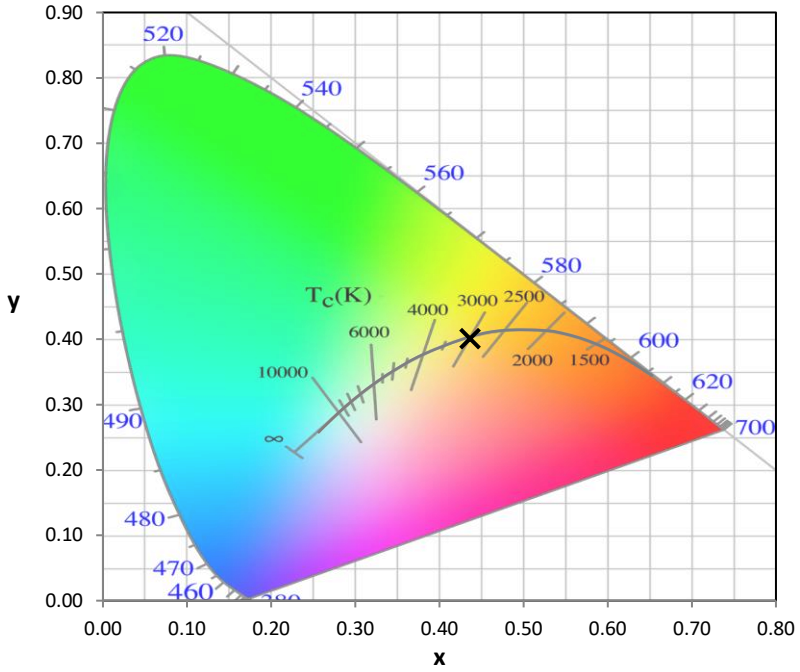
Stabilization Time:	38M
Operation Time:	1H 38M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-2

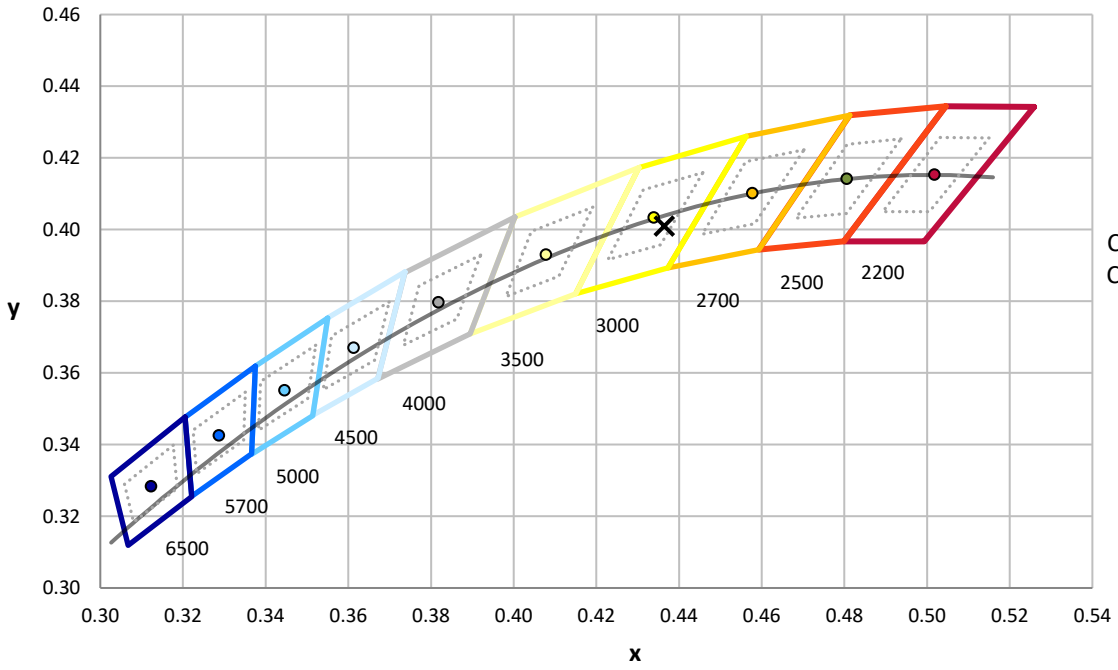
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2506-472-2

CIE 1931 Chromaticity Diagram



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

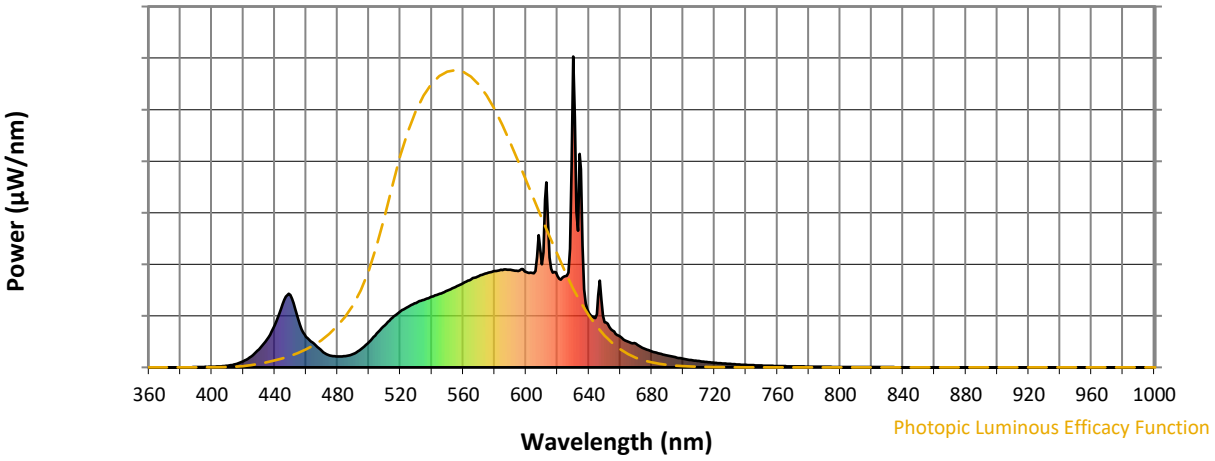


CCT = 2983K
CIE x = 0.4364
CIE y = 0.4010
Duv = -0.0012

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-2

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	43	NR	620	294	NR	750	6	NR	880	0	NR
365	0	NR	495	59	NR	625	294	NR	755	5	NR	885	0	NR
370	0	NR	500	81	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	109	NR	635	637	NR	765	4	NR	895	0	NR
380	0	NR	510	135	NR	640	175	NR	770	3	NR	900	0	NR
385	0	NR	515	160	NR	645	171	NR	775	3	NR	905	0	NR
390	1	NR	520	180	NR	650	146	NR	780	2	NR	910	0	NR
395	1	NR	525	195	NR	655	119	NR	785	2	NR	915	0	NR
400	2	NR	530	207	NR	660	99	NR	790	2	NR	920	0	NR
405	3	NR	535	218	NR	665	82	NR	795	2	NR	925	0	NR
410	5	NR	540	227	NR	670	76	NR	800	1	NR	930	0	NR
415	10	NR	545	237	NR	675	61	NR	805	1	NR	935	0	NR
420	20	NR	550	247	NR	680	52	NR	810	1	NR	940	0	NR
425	35	NR	555	259	NR	685	44	NR	815	1	NR	945	0	NR
430	58	NR	560	271	NR	690	38	NR	820	1	NR	950	0	NR
435	90	NR	565	283	NR	695	33	NR	825	1	NR	955	0	NR
440	135	NR	570	293	NR	700	27	NR	830	1	NR	960	0	NR
445	204	NR	575	303	NR	705	24	NR	835	1	NR	965	0	NR
450	233	NR	580	310	NR	710	20	NR	840	0	NR	970	0	NR
455	153	NR	585	313	NR	715	17	NR	845	0	NR	975	0	NR
460	98	NR	590	314	NR	720	15	NR	850	0	NR	980	0	NR
465	76	NR	595	310	NR	725	13	NR	855	0	NR	985	0	NR
470	53	NR	600	307	NR	730	11	NR	860	0	NR	990	0	NR
475	39	NR	605	303	NR	735	9	NR	865	0	NR	995	0	NR
480	35	NR	610	331	NR	740	8	NR	870	0	NR	1000	0	NR
485	36	NR	615	353	NR	745	7	NR	875	0	NR			

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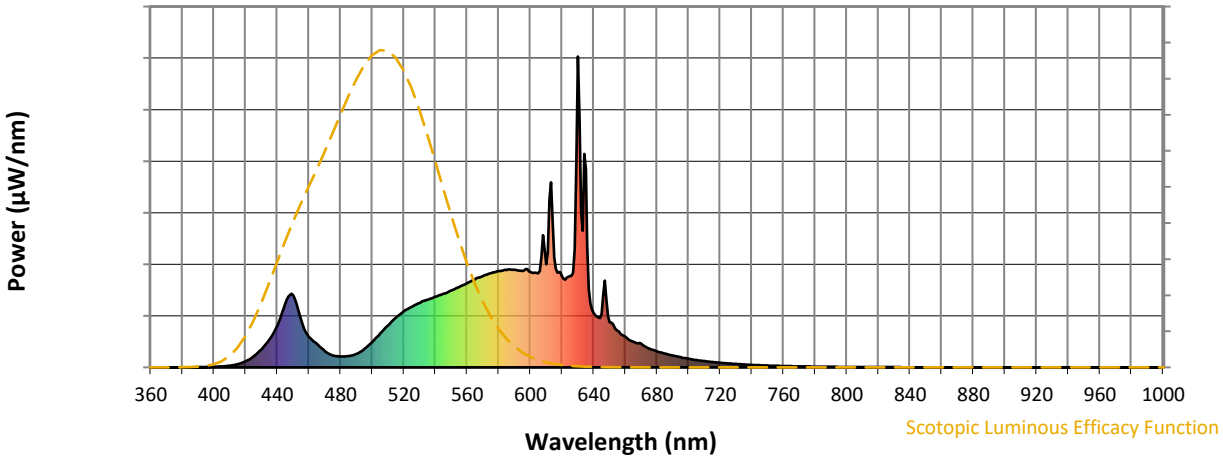
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.27**

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	43	NR	620	294	NR	750	6	NR	880	0	NR
365	0	NR	495	59	NR	625	294	NR	755	5	NR	885	0	NR
370	0	NR	500	81	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	109	NR	635	637	NR	765	4	NR	895	0	NR
380	0	NR	510	135	NR	640	175	NR	770	3	NR	900	0	NR
385	0	NR	515	160	NR	645	171	NR	775	3	NR	905	0	NR
390	1	NR	520	180	NR	650	146	NR	780	2	NR	910	0	NR
395	1	NR	525	195	NR	655	119	NR	785	2	NR	915	0	NR
400	2	NR	530	207	NR	660	99	NR	790	2	NR	920	0	NR
405	3	NR	535	218	NR	665	82	NR	795	2	NR	925	0	NR
410	5	NR	540	227	NR	670	76	NR	800	1	NR	930	0	NR
415	10	NR	545	237	NR	675	61	NR	805	1	NR	935	0	NR
420	20	NR	550	247	NR	680	52	NR	810	1	NR	940	0	NR
425	35	NR	555	259	NR	685	44	NR	815	1	NR	945	0	NR
430	58	NR	560	271	NR	690	38	NR	820	1	NR	950	0	NR
435	90	NR	565	283	NR	695	33	NR	825	1	NR	955	0	NR
440	135	NR	570	293	NR	700	27	NR	830	1	NR	960	0	NR
445	204	NR	575	303	NR	705	24	NR	835	1	NR	965	0	NR
450	233	NR	580	310	NR	710	20	NR	840	0	NR	970	0	NR
455	153	NR	585	313	NR	715	17	NR	845	0	NR	975	0	NR
460	98	NR	590	314	NR	720	15	NR	850	0	NR	980	0	NR
465	76	NR	595	310	NR	725	13	NR	855	0	NR	985	0	NR
470	53	NR	600	307	NR	730	11	NR	860	0	NR	990	0	NR
475	39	NR	605	303	NR	735	9	NR	865	0	NR	995	0	NR
480	35	NR	610	331	NR	740	8	NR	870	0	NR	1000	0	NR
485	36	NR	615	353	NR	745	7	NR	875	0	NR			

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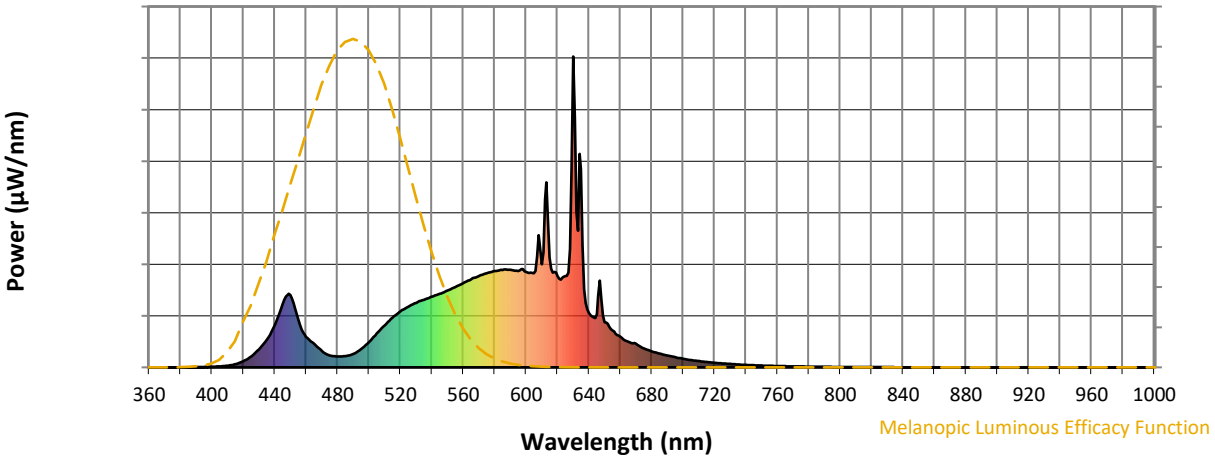
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.34**

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	43	NR	620	294	NR	750	6	NR	880	0	NR
365	0	NR	495	59	NR	625	294	NR	755	5	NR	885	0	NR
370	0	NR	500	81	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	109	NR	635	637	NR	765	4	NR	895	0	NR
380	0	NR	510	135	NR	640	175	NR	770	3	NR	900	0	NR
385	0	NR	515	160	NR	645	171	NR	775	3	NR	905	0	NR
390	1	NR	520	180	NR	650	146	NR	780	2	NR	910	0	NR
395	1	NR	525	195	NR	655	119	NR	785	2	NR	915	0	NR
400	2	NR	530	207	NR	660	99	NR	790	2	NR	920	0	NR
405	3	NR	535	218	NR	665	82	NR	795	2	NR	925	0	NR
410	5	NR	540	227	NR	670	76	NR	800	1	NR	930	0	NR
415	10	NR	545	237	NR	675	61	NR	805	1	NR	935	0	NR
420	20	NR	550	247	NR	680	52	NR	810	1	NR	940	0	NR
425	35	NR	555	259	NR	685	44	NR	815	1	NR	945	0	NR
430	58	NR	560	271	NR	690	38	NR	820	1	NR	950	0	NR
435	90	NR	565	283	NR	695	33	NR	825	1	NR	955	0	NR
440	135	NR	570	293	NR	700	27	NR	830	1	NR	960	0	NR
445	204	NR	575	303	NR	705	24	NR	835	1	NR	965	0	NR
450	233	NR	580	310	NR	710	20	NR	840	0	NR	970	0	NR
455	153	NR	585	313	NR	715	17	NR	845	0	NR	975	0	NR
460	98	NR	590	314	NR	720	15	NR	850	0	NR	980	0	NR
465	76	NR	595	310	NR	725	13	NR	855	0	NR	985	0	NR
470	53	NR	600	307	NR	730	11	NR	860	0	NR	990	0	NR
475	39	NR	605	303	NR	735	9	NR	865	0	NR	995	0	NR
480	35	NR	610	331	NR	740	8	NR	870	0	NR	1000	0	NR
485	36	NR	615	353	NR	745	7	NR	875	0	NR			

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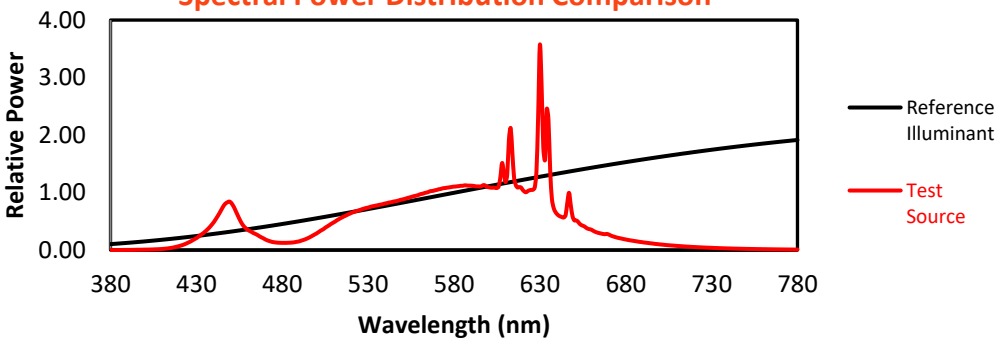
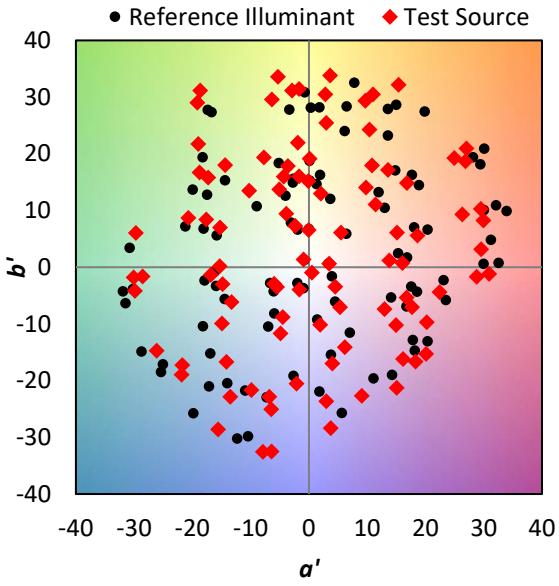
Summary

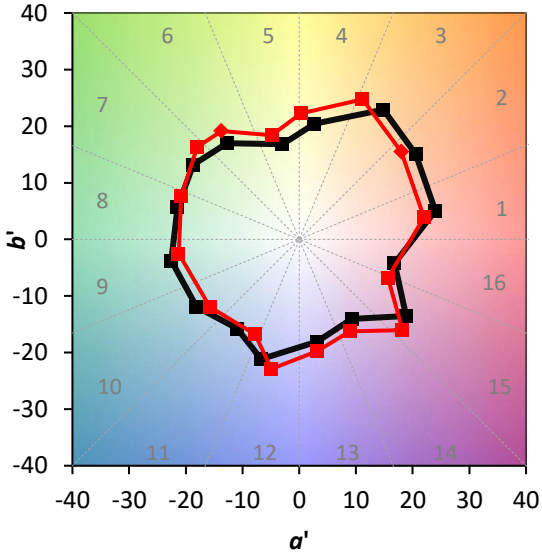
R_f = 81.2
R_g = 101.5
CIE R_a = 83.4
R_9 = 29.4

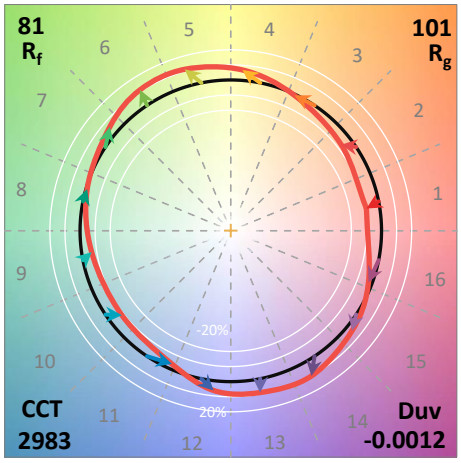
Spectral Power Distribution Comparison

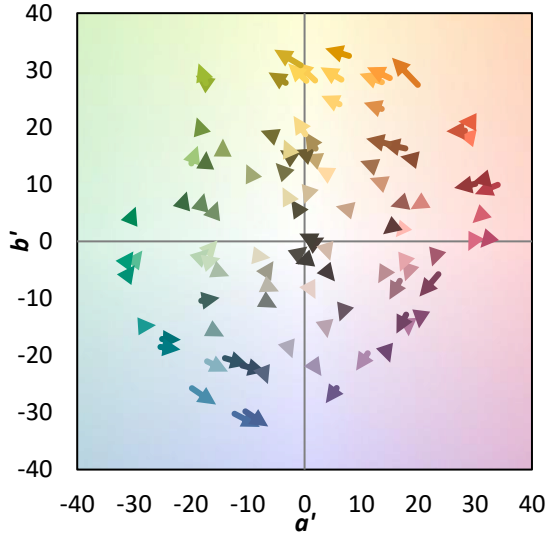


Color Vector Graphics









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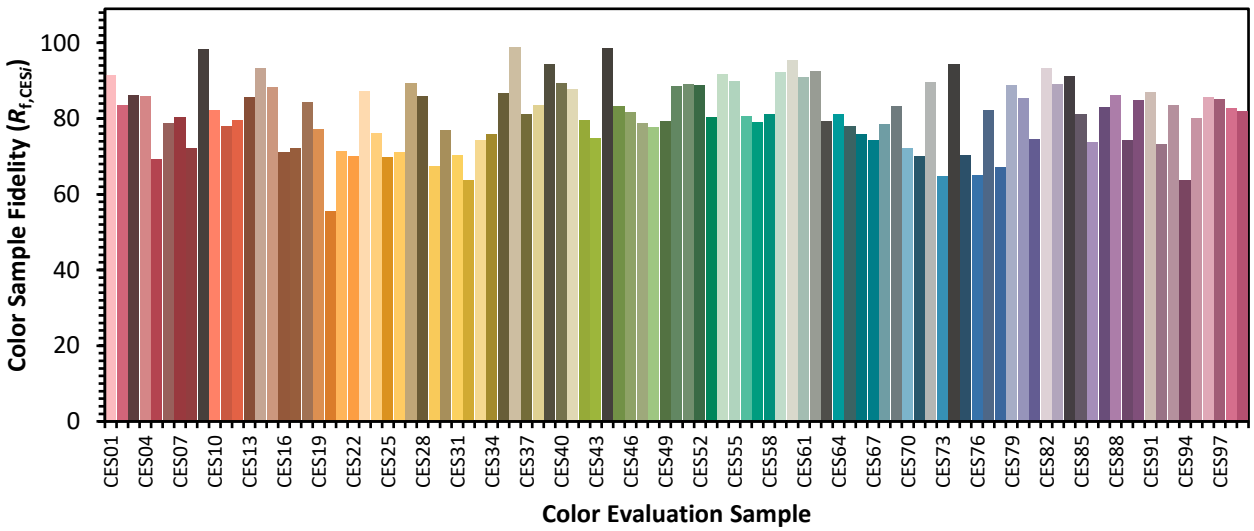
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 71	CES51 = 89	CES76 = 65
CES02 = 63	CES27 = 89	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 86	CES53 = 80	CES78 = 67
CES04 = 70	CES29 = 68	CES54 = 92	CES79 = 89
CES05 = 50	CES30 = 77	CES55 = 90	CES80 = 85
CES06 = 51	CES31 = 70	CES56 = 81	CES81 = 75
CES07 = 43	CES32 = 64	CES57 = 79	CES82 = 93
CES08 = 41	CES33 = 74	CES58 = 81	CES83 = 89
CES09 = 29	CES34 = 76	CES59 = 92	CES84 = 91
CES10 = 76	CES35 = 87	CES60 = 96	CES85 = 81
CES11 = 59	CES36 = 99	CES61 = 91	CES86 = 74
CES12 = 65	CES37 = 81	CES62 = 93	CES87 = 83
CES13 = 44	CES38 = 83	CES63 = 79	CES88 = 86
CES14 = 74	CES39 = 94	CES64 = 81	CES89 = 74
CES15 = 72	CES40 = 89	CES65 = 78	CES90 = 85
CES16 = 48	CES41 = 88	CES66 = 76	CES91 = 87
CES17 = 50	CES42 = 80	CES67 = 74	CES92 = 73
CES18 = 57	CES43 = 75	CES68 = 79	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 83	CES94 = 64
CES20 = 67	CES45 = 83	CES70 = 72	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 70	CES96 = 86
CES22 = 79	CES47 = 79	CES72 = 90	CES97 = 85
CES23 = 92	CES48 = 78	CES73 = 65	CES98 = 83
CES24 = 91	CES49 = 79	CES74 = 94	CES99 = 82
CES25 = 72	CES50 = 88	CES75 = 70	



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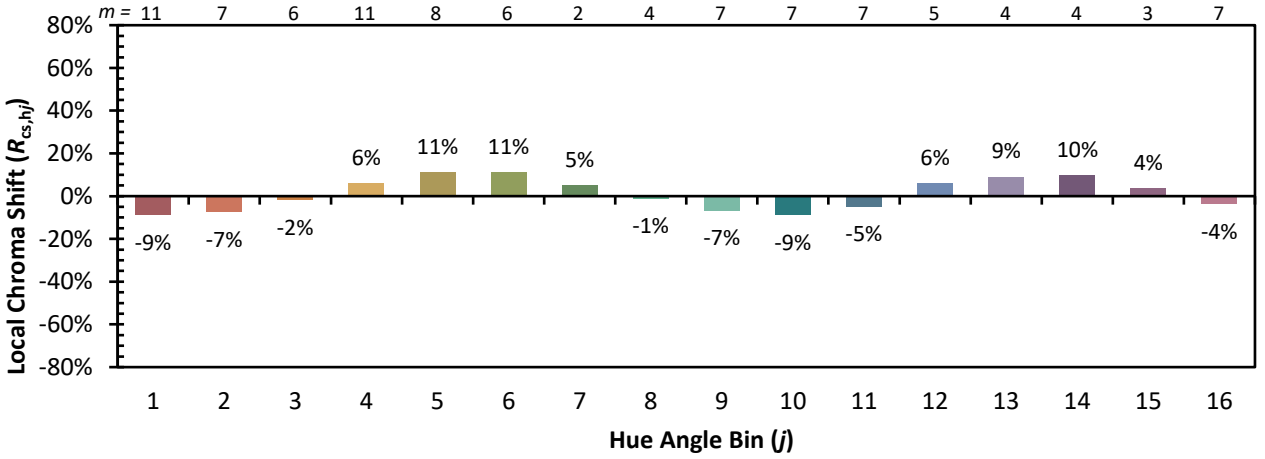
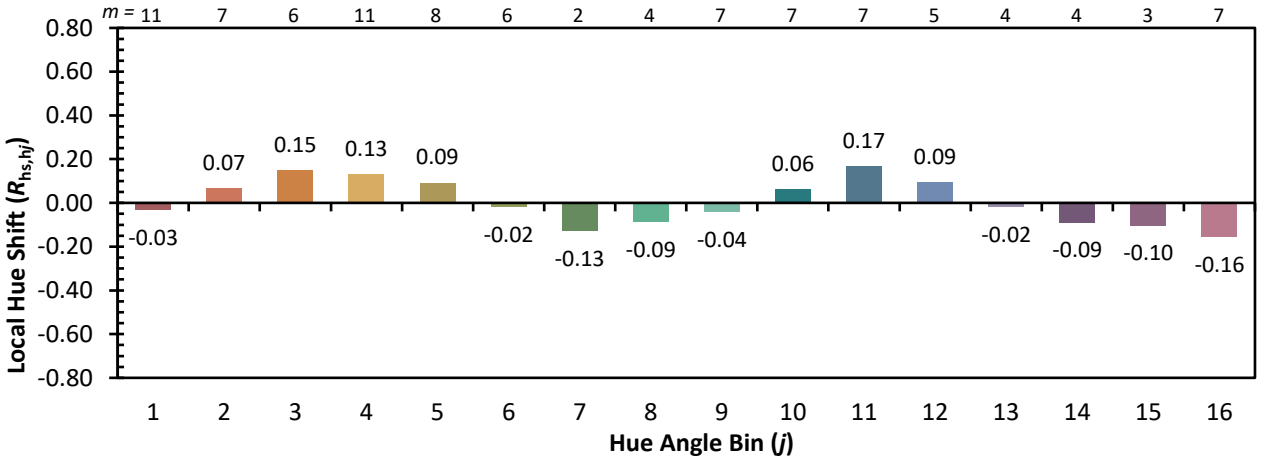
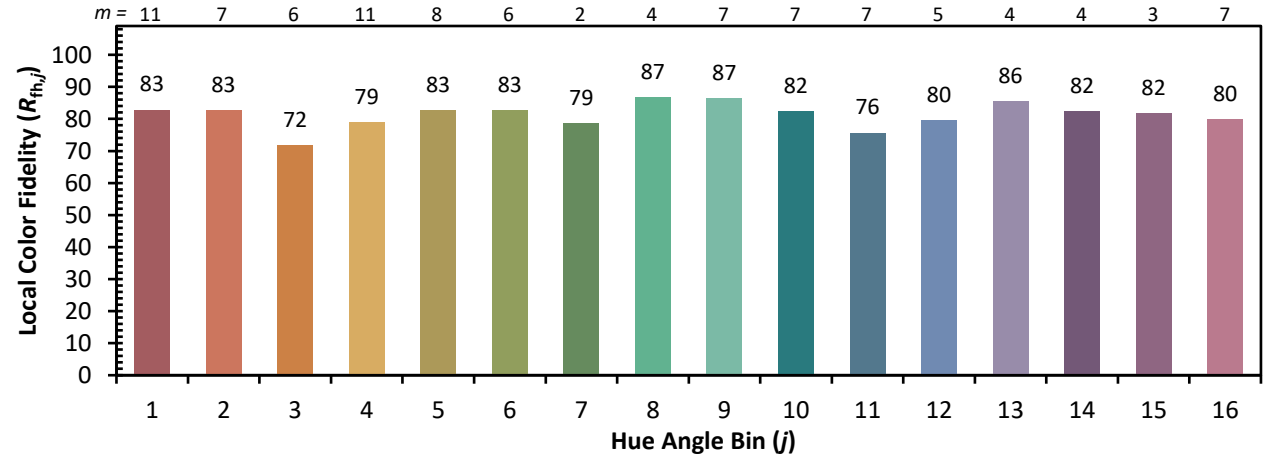
Color Rendition by Hue-Angle Bin







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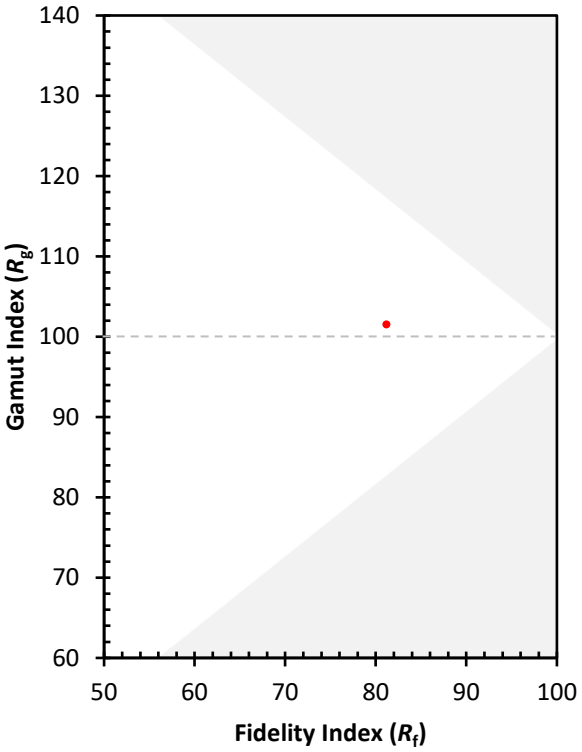
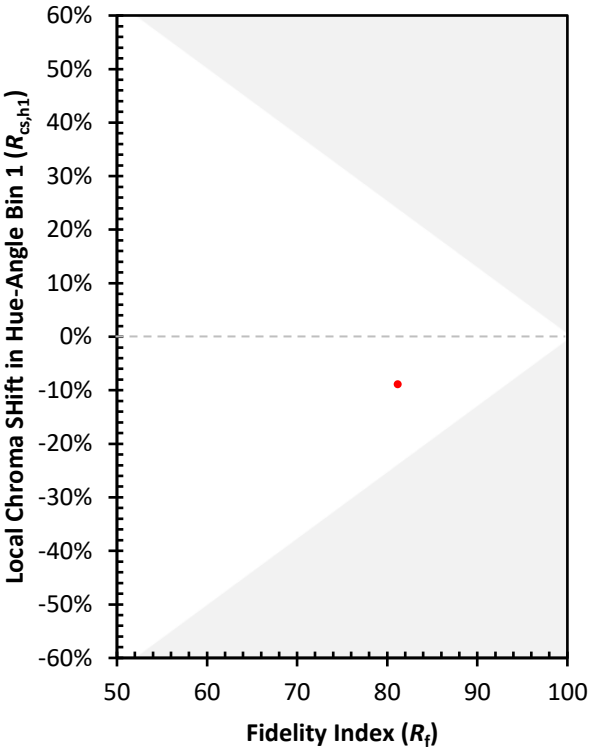
Measure Comparisons





(END OF REPORT)