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: P1433397

Luminaire Tested: EHBR1-60-UNV-W-L850-UPL18

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:	P1433397
	REPORT IS A COMBINATION OF REPORTS P1431918 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	3/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-60-UNV-W-L850-UPL18
Description:	Elevate Round Highbay at, 60000 lumens, 3000K 90CRI LEDs with W lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	59884.8 lumens
Efficiency:	N/A
Efficacy:	174.9 lumens/watt
Spacing Criteria (0/90/45):	1.54 / 1.54 / 1.31
Luminous Opening:	Vertical Cylinder (Dia: 1.71' x H: 0.1')
CIE Type:	Direct

Input Watts (W):	342.3
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:	24 FT

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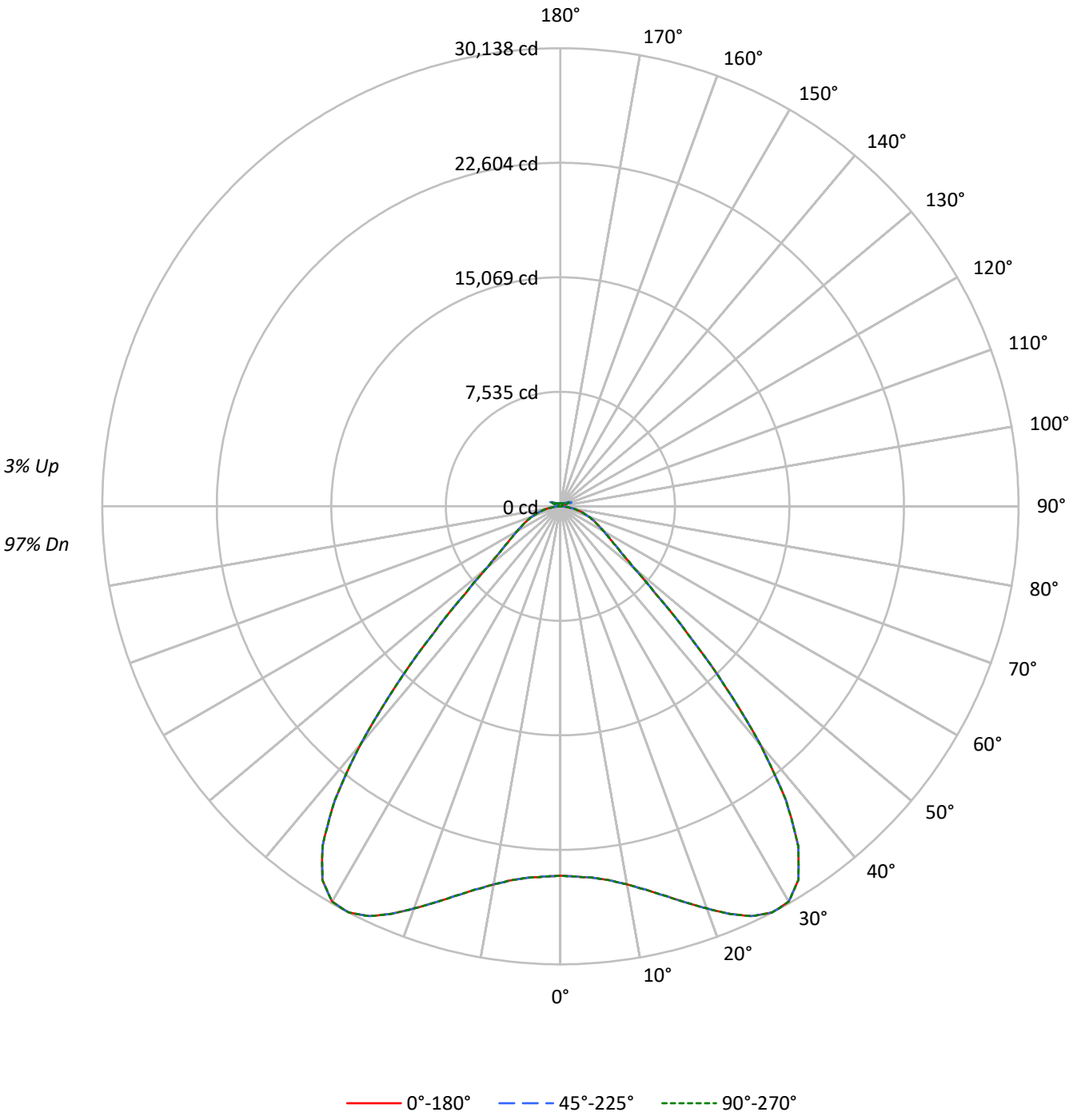
Luminous Intensity Polar Plot



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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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	111	107	103	100	108	104	101	99	100	97	95	95	93	92	91	90	88	86
2	103	96	91	86	100	94	89	85	90	86	83	87	83	80	83	81	78	76
3	95	87	80	75	93	85	79	74	82	77	72	79	75	71	76	72	69	67
4	89	79	71	66	86	77	71	65	75	69	64	72	67	63	70	65	62	60
5	82	72	64	58	80	70	63	58	68	62	57	66	61	56	64	59	56	54
6	77	65	58	52	75	64	57	52	62	56	51	61	55	51	59	54	50	48
7	72	60	52	47	70	59	52	47	57	51	46	56	50	46	54	49	45	43
8	67	55	48	43	66	54	47	42	53	46	42	52	46	42	50	45	41	39
9	63	51	44	39	62	50	43	38	49	43	38	48	42	38	47	41	38	36
10	59	47	40	35	58	47	40	35	45	39	35	44	39	35	43	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	114123	114123	114123
5°	114881	114881	114881
10°	118873	118873	118873
15°	126405	126405	126405
20°	137026	137026	137026
25°	148961	148961	148961
30°	156136	156136	156136
35°	148616	148616	148616
40°	117926	117926	117926
45°	72889	72889	72889
50°	42207	42207	42207
55°	31934	31934	31934
60°	27394	27394	27394
65°	24742	24742	24742
70°	22760	22760	22760
75°	20108	20108	20108
80°	16389	16389	16389
85°	9660	9660	9660

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 72889 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2364.4	3.9
10°-20°	7580.1	12.7
20°-30°	13682.4	22.8
30°-40°	16533.8	27.6
40°-50°	9446.2	15.8
50°-60°	4000.8	6.7
60°-70°	2580.5	4.3
70°-80°	1500.4	2.5
80°-90°	400.3	0.7
90°-100°	52.0	0.1
100°-110°	316.4	0.5
110°-120°	564.9	0.9
120°-130°	333.0	0.6
130°-140°	208.2	0.3
140°-150°	148.1	0.2
150°-160°	97.7	0.2
160°-170°	56.6	0.1
170°-180°	18.9	0.0
0°-30°	23626.9	39.5
0°-40°	40160.7	67.1
0°-60°	53607.8	89.5
0°-90°	58089.0	97.0
90°-120°	933.3	1.6
90°-150°	1622.6	2.7
90°-180°	1796.0	3.0
0°-180°	59884.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24302	24302	24302	24302	24302	
5°	24529	24529	24529	24529	24529	2364
15°	26519	26519	26519	26519	26519	7580
25°	29747	29747	29747	29747	29747	13682
35°	27276	27276	27276	27276	27276	16534
45°	11793	11793	11793	11793	11793	9446
55°	4316	4316	4316	4316	4316	4001
65°	2582	2582	2582	2582	2582	2581
75°	1416	1416	1416	1416	1416	1500
85°	332	332	332	332	332	382
90°	15	23	38	25	15	21
95°	24	39	84	42	27	23
105°	112	218	555	241	147	149
115°	508	535	656	629	625	468
125°	368	344	353	358	402	336
135°	274	266	275	258	258	214
145°	231	228	241	238	237	146
155°	206	204	213	213	213	96
165°	196	196	201	201	200	56
175°	196	196	199	199	199	19
180°	199	199	199	199	199	

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TEST NUMBER: P1433397
CATALOG NUMBER: EHBR1-60-UNV-W-L850-UPL18

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	24301.7	24301.7	24301.7	24301.7	24301.7
2.5°	24383.2	24383.2	24383.2	24383.2	24383.2
5°	24528.9	24528.9	24528.9	24528.9	24528.9
7.5°	24815.3	24815.3	24815.3	24815.3	24815.3
10°	25256.1	25256.1	25256.1	25256.1	25256.1
12.5°	25828.9	25828.9	25828.9	25828.9	25828.9
15°	26519.2	26519.2	26519.2	26519.2	26519.2
17.5°	27309.4	27309.4	27309.4	27309.4	27309.4
20°	28162.8	28162.8	28162.8	28162.8	28162.8
22.5°	29022.1	29022.1	29022.1	29022.1	29022.1
25°	29747.3	29747.3	29747.3	29747.3	29747.3
27.5°	30137.6	30137.6	30137.6	30137.6	30137.6
30°	30032.7	30032.7	30032.7	30032.7	30032.7
32.5°	29142.5	29142.5	29142.5	29142.5	29142.5
35°	27276.4	27276.4	27276.4	27276.4	27276.4
37.5°	24366.7	24366.7	24366.7	24366.7	24366.7
40°	20439.6	20439.6	20439.6	20439.6	20439.6
42.5°	15997.9	15997.9	15997.9	15997.9	15997.9
45°	11793.1	11793.1	11793.1	11793.1	11793.1
47.5°	8429.0	8429.0	8429.0	8429.0	8429.0
50°	6290.3	6290.3	6290.3	6290.3	6290.3
52.5°	5093.1	5093.1	5093.1	5093.1	5093.1
55°	4315.5	4315.5	4315.5	4315.5	4315.5
57.5°	3747.6	3747.6	3747.6	3747.6	3747.6
60°	3293.2	3293.2	3293.2	3293.2	3293.2
62.5°	2914.6	2914.6	2914.6	2914.6	2914.6
65°	2582.5	2582.5	2582.5	2582.5	2582.5
67.5°	2289.3	2289.3	2289.3	2289.3	2289.3
70°	1997.1	1997.1	1997.1	1997.1	1997.1
72.5°	1705.8	1705.8	1705.8	1705.8	1705.8
75°	1416.5	1416.5	1416.5	1416.5	1416.5
77.5°	1137.9	1137.9	1137.9	1137.9	1137.9
80°	862.2	862.2	862.2	862.2	862.2
82.5°	591.2	591.2	591.2	591.2	591.2
85°	332.0	332.0	332.0	332.0	332.0
87.5°	104.8	104.8	104.8	104.8	104.8
90°	15.0	23.1	38.2	25.1	15.0
92.5°	20.1	33.2	59.3	31.1	18.1
95°	24.1	39.2	83.5	42.2	27.1
97.5°	30.2	43.2	95.6	51.3	41.3
100°	39.2	50.3	147.9	62.4	54.3
102.5°	65.4	104.6	312.1	115.7	81.5
105°	111.7	218.5	554.7	240.6	147.0
107.5°	192.2	389.6	730.8	424.8	276.8
110°	358.3	517.4	767.1	583.9	442.9

TEST NUMBER: P1433397
CATALOG NUMBER: EHBR1-60-UNV-W-L850-UPL18

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	*483.2*	555.7	734.9	644.3	575.8
115°	*508.3*	534.6	656.4	629.2	625.1
117.5°	*491.2*	488.2	557.7	565.7	604.0
120°	*455.0*	434.9	466.1	494.3	545.6
122.5°	*409.7*	385.6	399.6	420.7	472.1
125°	*368.4*	344.2	353.2	358.3	401.6
127.5°	*331.1*	315.0	320.0	314.0	341.2
130°	*306.9*	292.7	299.8	285.8	298.8
132.5°	*287.7*	278.6	286.6	269.5	273.6
135°	*273.6*	265.5	274.6	258.4	257.5
137.5°	*261.5*	254.4	263.5	251.4	248.3
140°	*251.4*	245.3	255.4	246.3	244.3
142.5°	*239.2*	235.2	247.2	241.3	239.2
145°	*231.0*	228.0	241.2	238.1	237.1
147.5°	*224.0*	222.0	234.1	233.0	233.0
150°	*216.9*	214.9	227.0	226.0	227.0
152.5°	*209.9*	207.9	219.0	218.0	219.0
155°	*205.8*	203.8	212.9	212.9	212.9
157.5°	*201.8*	200.8	207.9	207.9	207.9
160°	*199.8*	198.7	204.8	204.8	203.8
162.5°	*197.7*	196.8	203.7	202.7	202.7
165°	*195.7*	195.7	200.8	200.8	199.7
167.5°	*195.7*	194.7	199.7	199.7	198.7
170°	*194.7*	194.7	198.7	197.7	196.8
172.5°	*195.7*	195.7	199.7	198.7	197.7
175°	*195.7*	195.7	198.7	198.7	198.7
177.5°	*196.7*	196.7	198.7	198.7	197.6
180°	*198.6*	198.6	198.6	198.6	198.6

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Scaled Data Report

TEST NUMBER: P1433397
CATALOG NUMBER: EHBR1-60-UNV-W-L850-UPL18

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	20.71	21.96	21.12	22.34	22.73	20.71	21.96	21.12	22.34	22.73
	3H	22.21	23.33	22.64	23.72	24.16	22.21	23.33	22.64	23.72	24.16
	4H	22.77	23.81	23.23	24.23	24.68	22.77	23.81	23.23	24.23	24.68
	6H	23.16	24.12	23.63	24.55	25.02	23.16	24.12	23.63	24.55	25.02
	8H	23.26	24.17	23.74	24.62	25.10	23.26	24.17	23.74	24.62	25.10
	12H	23.30	24.16	23.78	24.61	25.11	23.30	24.16	23.78	24.61	25.11
4H	2H	21.15	22.20	21.61	22.61	23.07	21.15	22.20	21.61	22.61	23.07
	3H	22.88	23.73	23.35	24.20	24.68	22.88	23.73	23.35	24.20	24.68
	4H	23.56	24.33	24.05	24.80	25.32	23.56	24.33	24.05	24.80	25.32
	6H	24.06	24.72	24.57	25.22	25.76	24.06	24.72	24.57	25.22	25.76
	8H	24.19	24.81	24.71	25.31	25.85	24.19	24.81	24.71	25.31	25.85
	12H	24.25	24.80	24.79	25.34	25.88	24.25	24.80	24.79	25.34	25.88
8H	4H	23.76	24.38	24.28	24.89	25.43	23.76	24.38	24.28	24.89	25.43
	6H	24.36	24.87	24.91	25.42	25.97	24.36	24.87	24.91	25.42	25.97
	8H	24.55	25.00	25.12	25.57	26.13	24.55	25.00	25.12	25.57	26.13
	12H	24.66	25.06	25.22	25.60	26.24	24.66	25.06	25.22	25.60	26.24
12H	4H	23.76	24.31	24.30	24.85	25.39	23.76	24.31	24.30	24.85	25.39
	6H	24.38	24.83	24.95	25.40	25.96	24.38	24.83	24.95	25.40	25.96
	8H	24.60	25.00	25.17	25.55	26.19	24.60	25.00	25.17	25.55	26.19

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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: SP1-2506-472-5

Test Date: 08/01/2025

Luminaire Tested: EHBR-60-L930-N

Data in this report applies to families of products including EHBR-60-L930-N

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

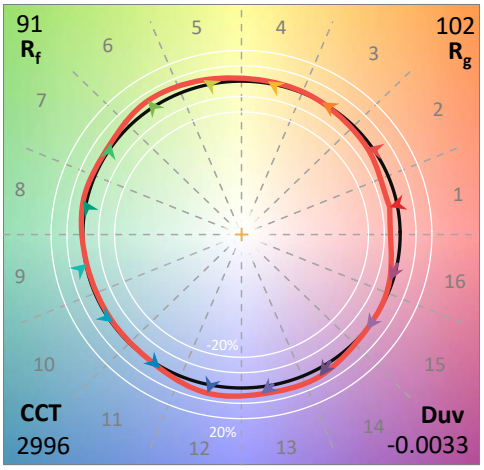
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2506-472-5
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-L930-N**
Description:	Elevate Round Highbay at, 60000 lumens, 3000K 90CRI LEDs with N lens

Spectral Parameters

CCT (K):	2996
CIE u':	0.2519
CIE v':	0.5169
Duv:	-0.0033
CIE x:	0.4325
CIE y:	0.3945
CIE z:	0.1730
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	584
Purity:	48.21818
Rf:	91.3
Rg:	102

CRI (Ra):	94.4
R1:	96.8
R2:	98.1
R3:	97.8
R4:	95.6
R5:	96.9
R6:	95.7
R7:	90.9
R8:	83.0
R9:	61.4
R10:	94.4
R11:	95.7
R12:	88.5
R13:	97.3
R14:	97.8
R15:	92.3



Test Conditions

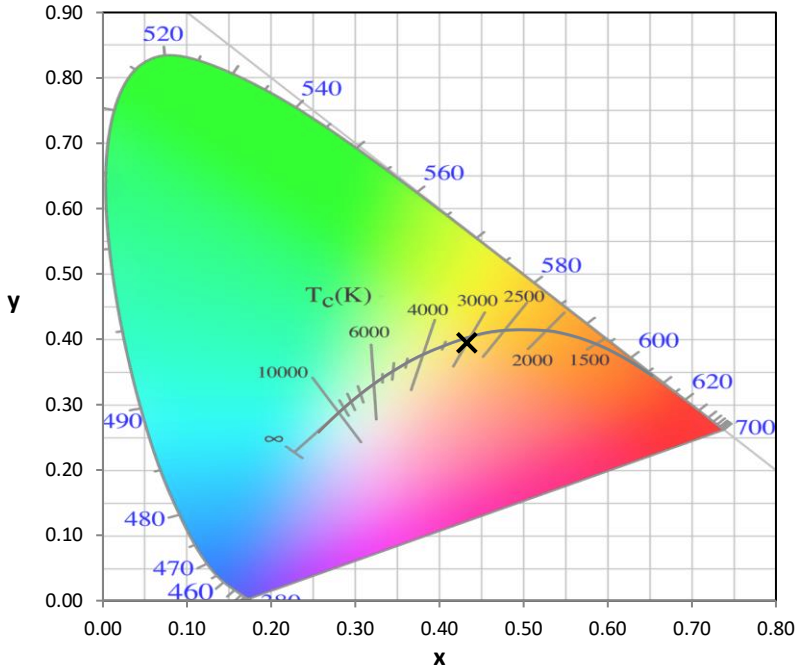
Stabilization Time:	40M
Operation Time:	1H 40M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-5

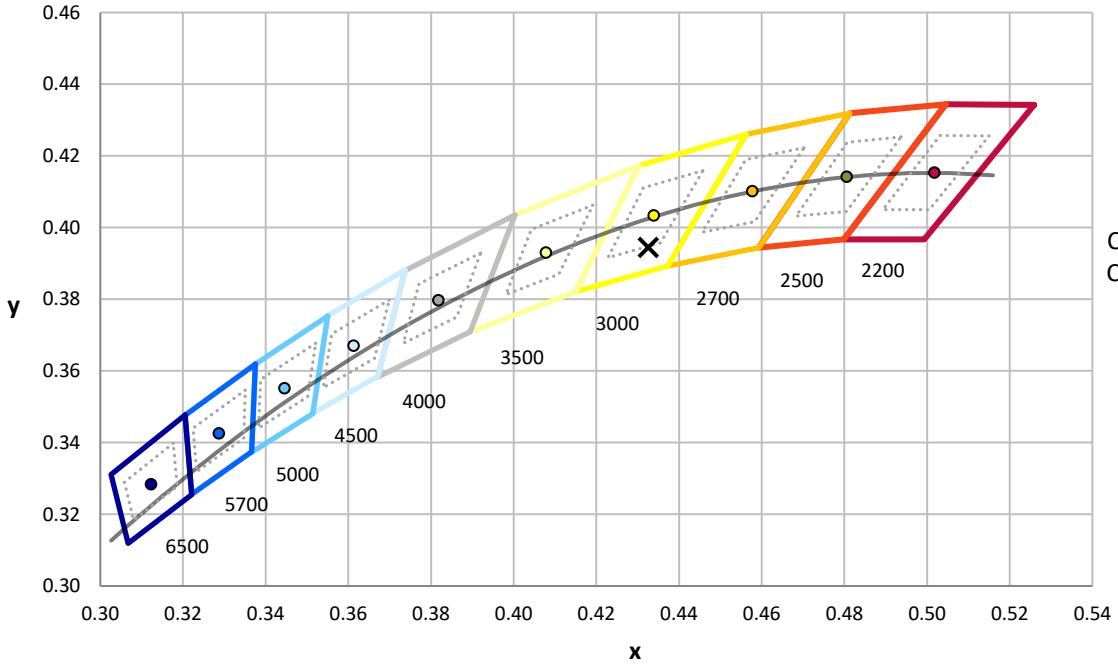
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2506-472-5

CIE 1931 Chromaticity Diagram



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

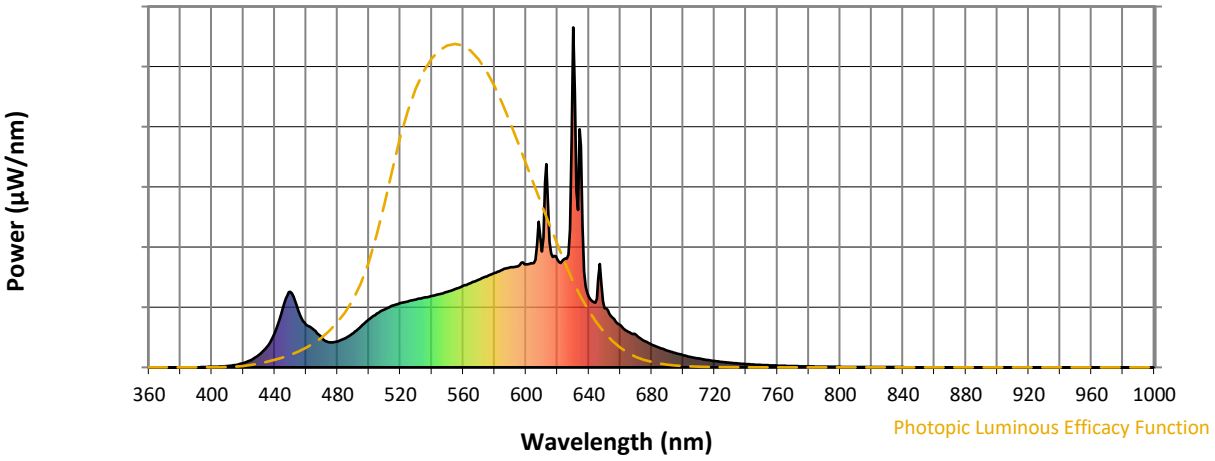


CCT = 2996K
CIE x = 0.4325
CIE y = 0.3945
Duv = -0.0033

Point lies inside the ANSI 3000K 7-step quadrangle

REPORT NUMBER: SP1-2506-472-5

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	101	NR	620	317	NR	750	7	NR	880	0	NR
365	0	NR	495	121	NR	625	320	NR	755	6	NR	885	0	NR
370	0	NR	500	141	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	158	NR	635	651	NR	765	4	NR	895	0	NR
380	0	NR	510	171	NR	640	207	NR	770	4	NR	900	0	NR
385	0	NR	515	182	NR	645	201	NR	775	3	NR	905	0	NR
390	0	NR	520	189	NR	650	174	NR	780	3	NR	910	0	NR
395	1	NR	525	194	NR	655	146	NR	785	2	NR	915	0	NR
400	1	NR	530	199	NR	660	124	NR	790	2	NR	920	0	NR
405	3	NR	535	205	NR	665	105	NR	795	2	NR	925	0	NR
410	4	NR	540	210	NR	670	96	NR	800	1	NR	930	0	NR
415	7	NR	545	216	NR	675	79	NR	805	1	NR	935	0	NR
420	13	NR	550	222	NR	680	67	NR	810	1	NR	940	0	NR
425	22	NR	555	230	NR	685	58	NR	815	1	NR	945	0	NR
430	37	NR	560	240	NR	690	49	NR	820	1	NR	950	0	NR
435	60	NR	565	248	NR	695	42	NR	825	1	NR	955	0	NR
440	101	NR	570	258	NR	700	36	NR	830	1	NR	960	0	NR
445	172	NR	575	268	NR	705	30	NR	835	1	NR	965	0	NR
450	223	NR	580	278	NR	710	26	NR	840	1	NR	970	0	NR
455	167	NR	585	287	NR	715	22	NR	845	0	NR	975	0	NR
460	126	NR	590	295	NR	720	19	NR	850	0	NR	980	0	NR
465	111	NR	595	298	NR	725	16	NR	855	0	NR	985	0	NR
470	86	NR	600	303	NR	730	14	NR	860	0	NR	990	0	NR
475	74	NR	605	307	NR	735	12	NR	865	0	NR	995	0	NR
480	77	NR	610	341	NR	740	10	NR	870	0	NR	1000	0	NR
485	86	NR	615	368	NR	745	8	NR	875	0	NR			

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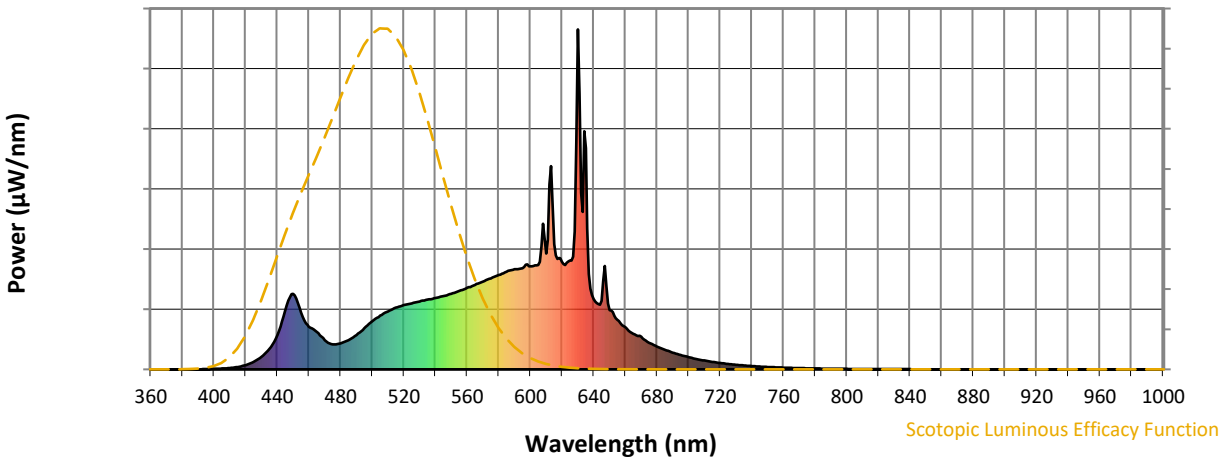
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.44**

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	101	NR	620	317	NR	750	7	NR	880	0	NR
365	0	NR	495	121	NR	625	320	NR	755	6	NR	885	0	NR
370	0	NR	500	141	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	158	NR	635	651	NR	765	4	NR	895	0	NR
380	0	NR	510	171	NR	640	207	NR	770	4	NR	900	0	NR
385	0	NR	515	182	NR	645	201	NR	775	3	NR	905	0	NR
390	0	NR	520	189	NR	650	174	NR	780	3	NR	910	0	NR
395	1	NR	525	194	NR	655	146	NR	785	2	NR	915	0	NR
400	1	NR	530	199	NR	660	124	NR	790	2	NR	920	0	NR
405	3	NR	535	205	NR	665	105	NR	795	2	NR	925	0	NR
410	4	NR	540	210	NR	670	96	NR	800	1	NR	930	0	NR
415	7	NR	545	216	NR	675	79	NR	805	1	NR	935	0	NR
420	13	NR	550	222	NR	680	67	NR	810	1	NR	940	0	NR
425	22	NR	555	230	NR	685	58	NR	815	1	NR	945	0	NR
430	37	NR	560	240	NR	690	49	NR	820	1	NR	950	0	NR
435	60	NR	565	248	NR	695	42	NR	825	1	NR	955	0	NR
440	101	NR	570	258	NR	700	36	NR	830	1	NR	960	0	NR
445	172	NR	575	268	NR	705	30	NR	835	1	NR	965	0	NR
450	223	NR	580	278	NR	710	26	NR	840	1	NR	970	0	NR
455	167	NR	585	287	NR	715	22	NR	845	0	NR	975	0	NR
460	126	NR	590	295	NR	720	19	NR	850	0	NR	980	0	NR
465	111	NR	595	298	NR	725	16	NR	855	0	NR	985	0	NR
470	86	NR	600	303	NR	730	14	NR	860	0	NR	990	0	NR
475	74	NR	605	307	NR	735	12	NR	865	0	NR	995	0	NR
480	77	NR	610	341	NR	740	10	NR	870	0	NR	1000	0	NR
485	86	NR	615	368	NR	745	8	NR	875	0	NR			

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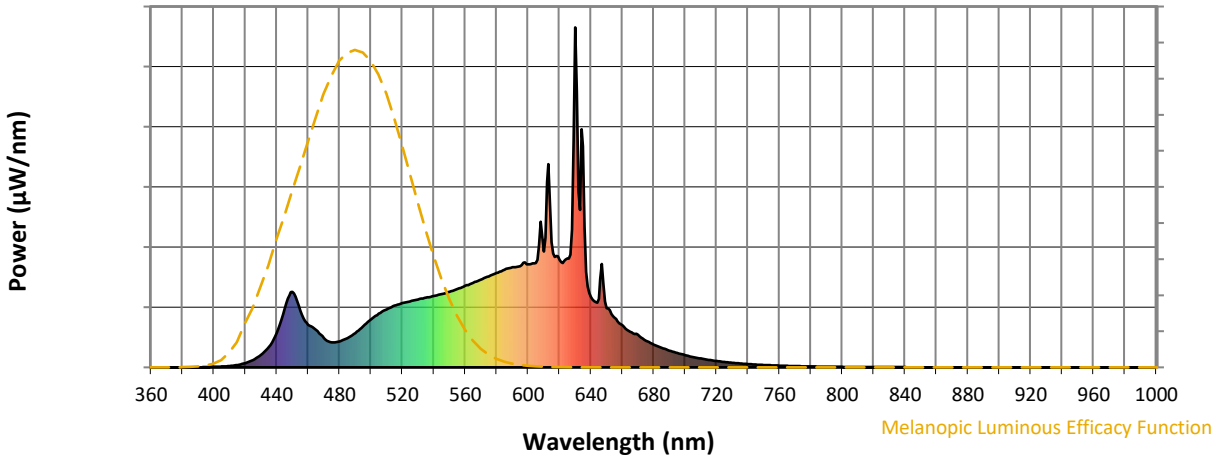
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.85**

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	101	NR	620	317	NR	750	7	NR	880	0	NR
365	0	NR	495	121	NR	625	320	NR	755	6	NR	885	0	NR
370	0	NR	500	141	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	158	NR	635	651	NR	765	4	NR	895	0	NR
380	0	NR	510	171	NR	640	207	NR	770	4	NR	900	0	NR
385	0	NR	515	182	NR	645	201	NR	775	3	NR	905	0	NR
390	0	NR	520	189	NR	650	174	NR	780	3	NR	910	0	NR
395	1	NR	525	194	NR	655	146	NR	785	2	NR	915	0	NR
400	1	NR	530	199	NR	660	124	NR	790	2	NR	920	0	NR
405	3	NR	535	205	NR	665	105	NR	795	2	NR	925	0	NR
410	4	NR	540	210	NR	670	96	NR	800	1	NR	930	0	NR
415	7	NR	545	216	NR	675	79	NR	805	1	NR	935	0	NR
420	13	NR	550	222	NR	680	67	NR	810	1	NR	940	0	NR
425	22	NR	555	230	NR	685	58	NR	815	1	NR	945	0	NR
430	37	NR	560	240	NR	690	49	NR	820	1	NR	950	0	NR
435	60	NR	565	248	NR	695	42	NR	825	1	NR	955	0	NR
440	101	NR	570	258	NR	700	36	NR	830	1	NR	960	0	NR
445	172	NR	575	268	NR	705	30	NR	835	1	NR	965	0	NR
450	223	NR	580	278	NR	710	26	NR	840	1	NR	970	0	NR
455	167	NR	585	287	NR	715	22	NR	845	0	NR	975	0	NR
460	126	NR	590	295	NR	720	19	NR	850	0	NR	980	0	NR
465	111	NR	595	298	NR	725	16	NR	855	0	NR	985	0	NR
470	86	NR	600	303	NR	730	14	NR	860	0	NR	990	0	NR
475	74	NR	605	307	NR	735	12	NR	865	0	NR	995	0	NR
480	77	NR	610	341	NR	740	10	NR	870	0	NR	1000	0	NR
485	86	NR	615	368	NR	745	8	NR	875	0	NR			

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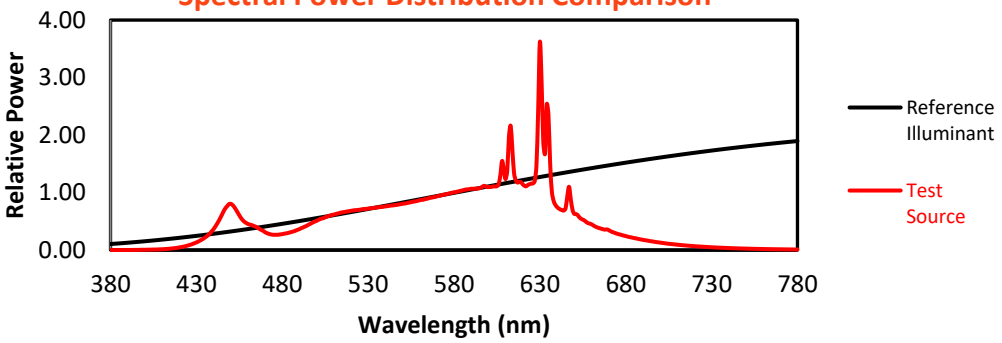
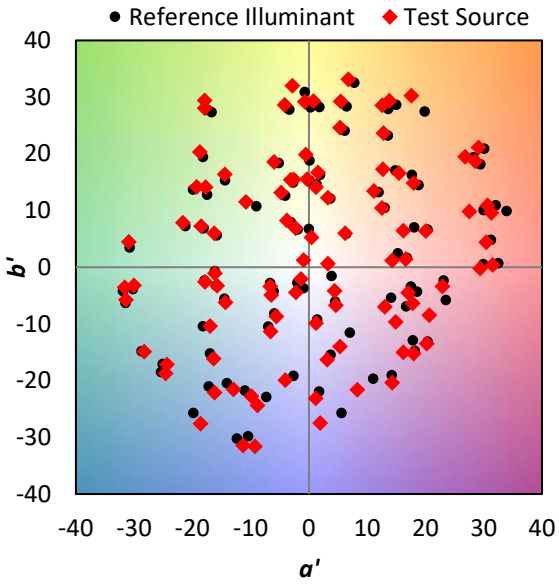
Summary

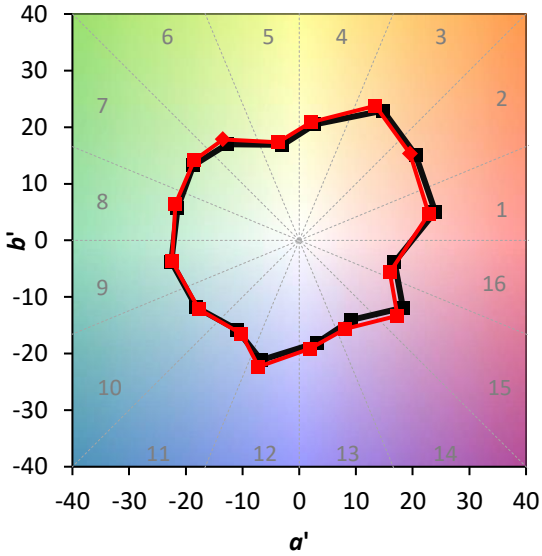
R_f = 91.3
R_g = 102
CIE R_a = 94.4
R_9 = 61.4

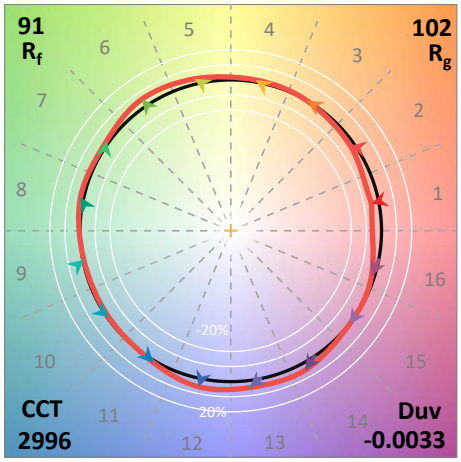
Spectral Power Distribution Comparison

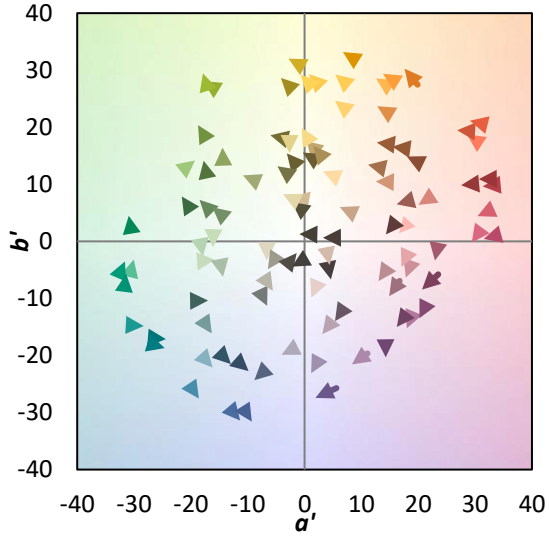


Color Vector Graphics









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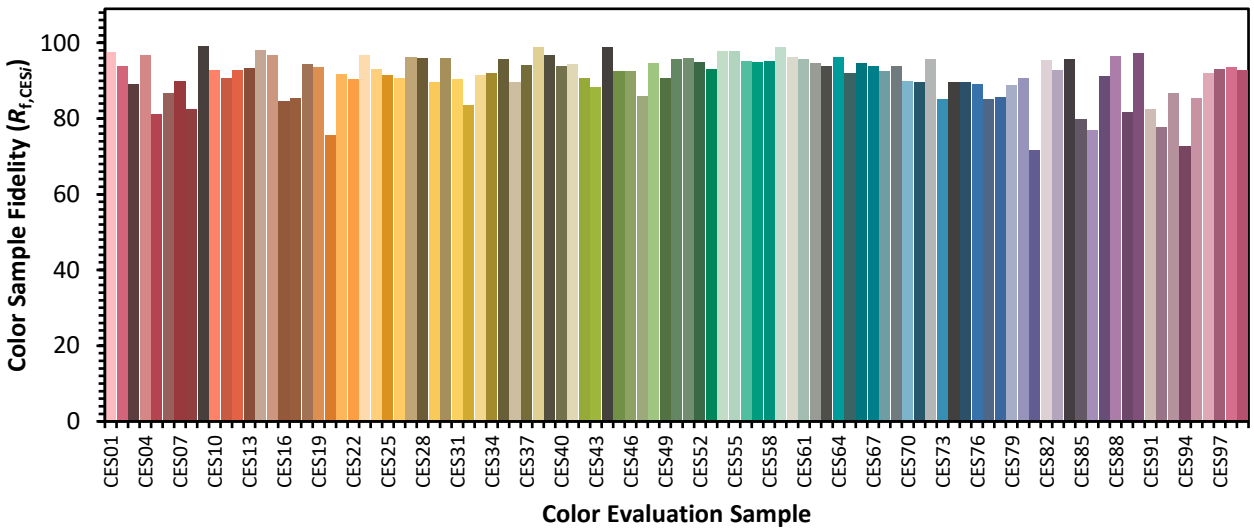
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 91	CES51 = 96	CES76 = 89
CES02 = 63	CES27 = 96	CES52 = 95	CES77 = 85
CES03 = 32	CES28 = 96	CES53 = 93	CES78 = 86
CES04 = 70	CES29 = 90	CES54 = 98	CES79 = 89
CES05 = 51	CES30 = 96	CES55 = 98	CES80 = 91
CES06 = 51	CES31 = 90	CES56 = 95	CES81 = 72
CES07 = 44	CES32 = 84	CES57 = 95	CES82 = 95
CES08 = 42	CES33 = 91	CES58 = 95	CES83 = 93
CES09 = 29	CES34 = 92	CES59 = 99	CES84 = 96
CES10 = 76	CES35 = 96	CES60 = 96	CES85 = 80
CES11 = 59	CES36 = 90	CES61 = 96	CES86 = 77
CES12 = 65	CES37 = 94	CES62 = 95	CES87 = 91
CES13 = 44	CES38 = 99	CES63 = 94	CES88 = 96
CES14 = 74	CES39 = 97	CES64 = 96	CES89 = 82
CES15 = 72	CES40 = 94	CES65 = 92	CES90 = 97
CES16 = 48	CES41 = 94	CES66 = 95	CES91 = 82
CES17 = 50	CES42 = 91	CES67 = 94	CES92 = 78
CES18 = 57	CES43 = 88	CES68 = 93	CES93 = 87
CES19 = 72	CES44 = 99	CES69 = 94	CES94 = 73
CES20 = 67	CES45 = 93	CES70 = 90	CES95 = 85
CES21 = 86	CES46 = 93	CES71 = 90	CES96 = 92
CES22 = 79	CES47 = 86	CES72 = 96	CES97 = 93
CES23 = 92	CES48 = 95	CES73 = 85	CES98 = 94
CES24 = 91	CES49 = 91	CES74 = 90	CES99 = 93
CES25 = 72	CES50 = 96	CES75 = 90	



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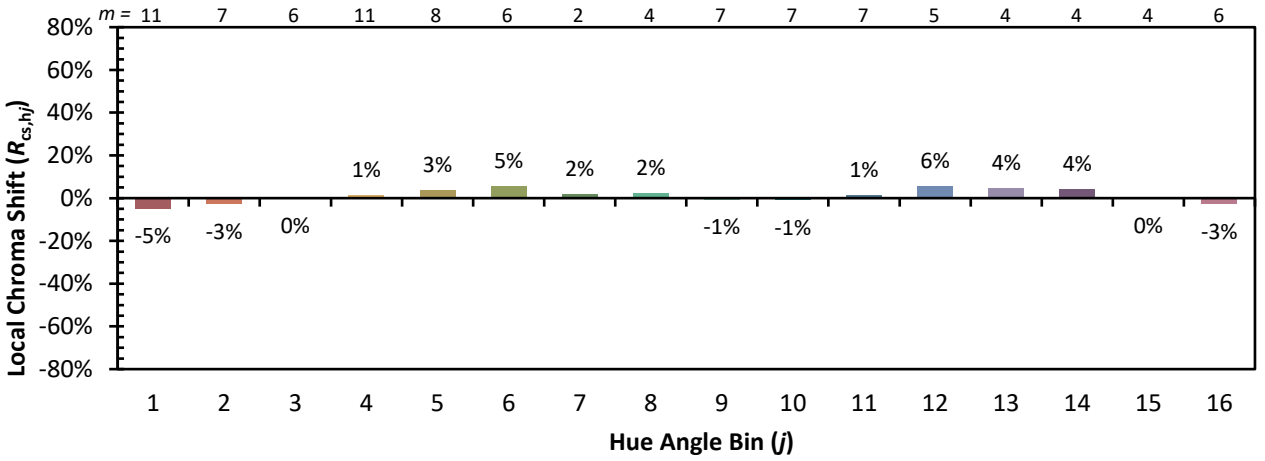
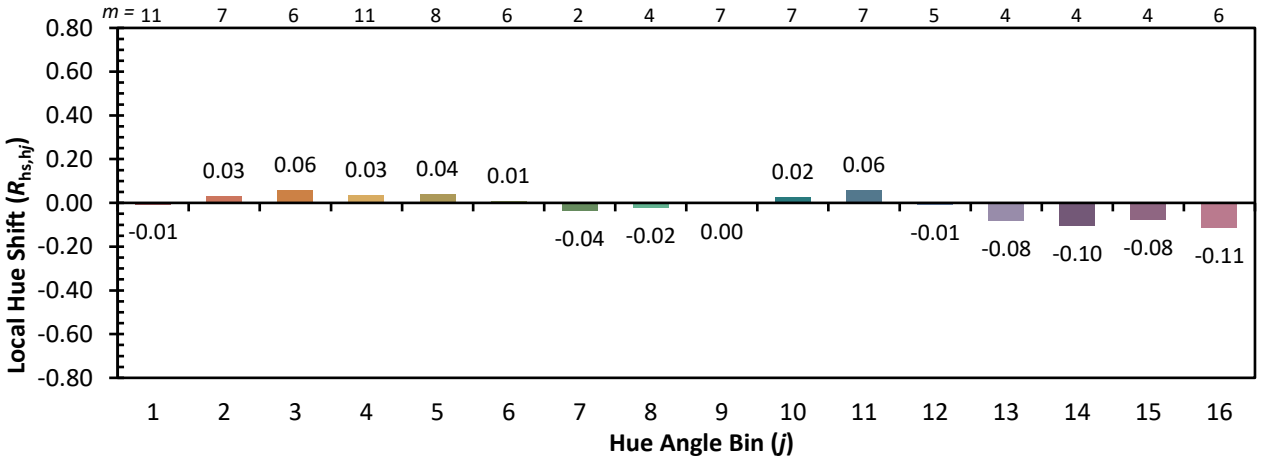
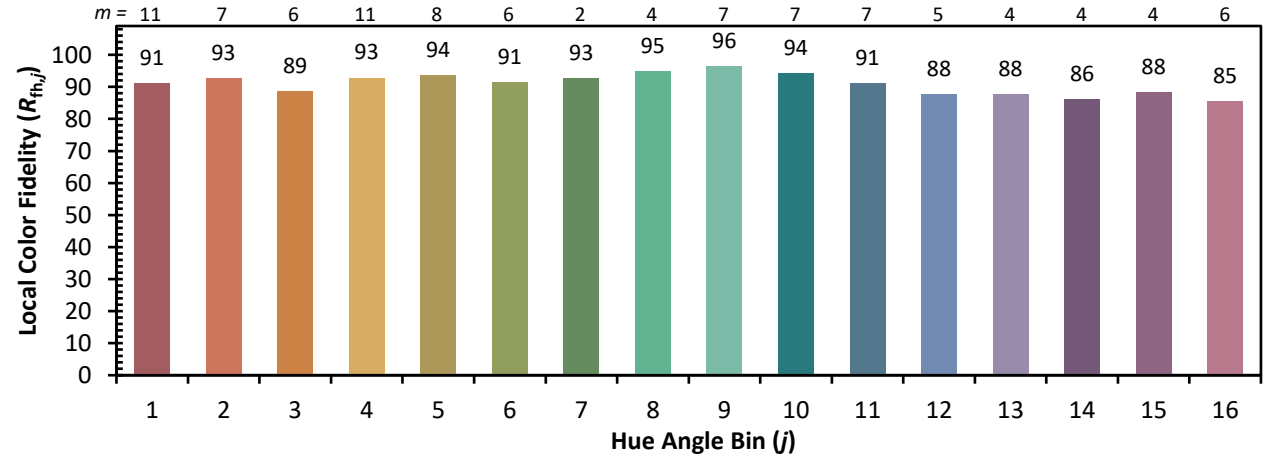
Color Rendition by Hue-Angle Bin







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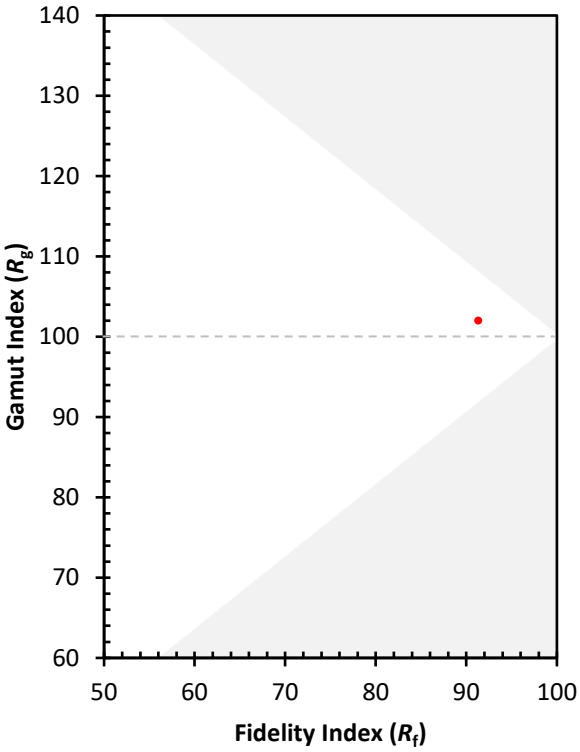
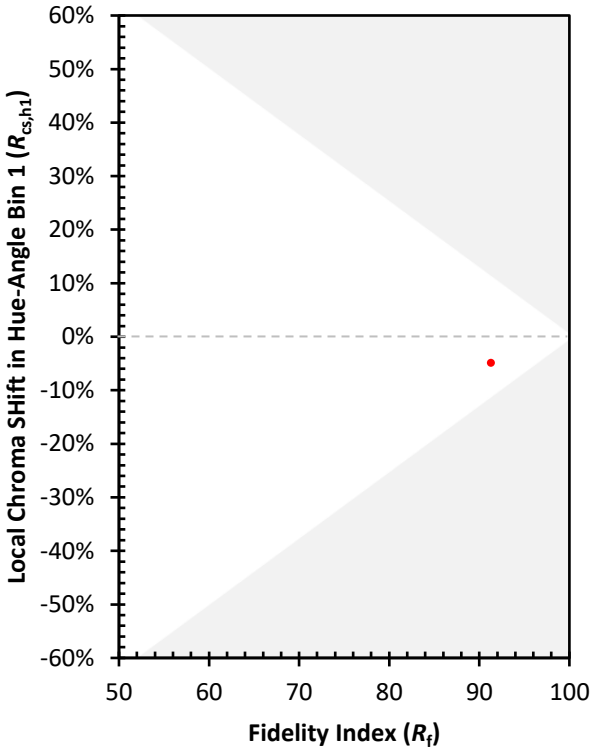
Measure Comparisons





(END OF REPORT)