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: P1436151

Luminaire Tested: EHBR1-30-UNV-M-L830-UPL30

Issue Date: 3/25/2026

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:	P1436151
	REPORT IS A COMBINATION OF REPORTS P1436079 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	3/25/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-30-UNV-M-L830-UPL30
Description:	Elevate Round Highbay at, 30000 lumens, 3000K 80CRI LEDs with M lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	31483.0 lumens
Efficiency:	N/A
Efficacy:	173.2 lumens/watt
Spacing Criteria (0/90/45):	1.21 / 1.21 / 1.15
Luminous Opening:	Vertical Cylinder (Dia: 1.71' x H: 0.1')
CIE Type:	Direct

Input Watts (W):	181.8
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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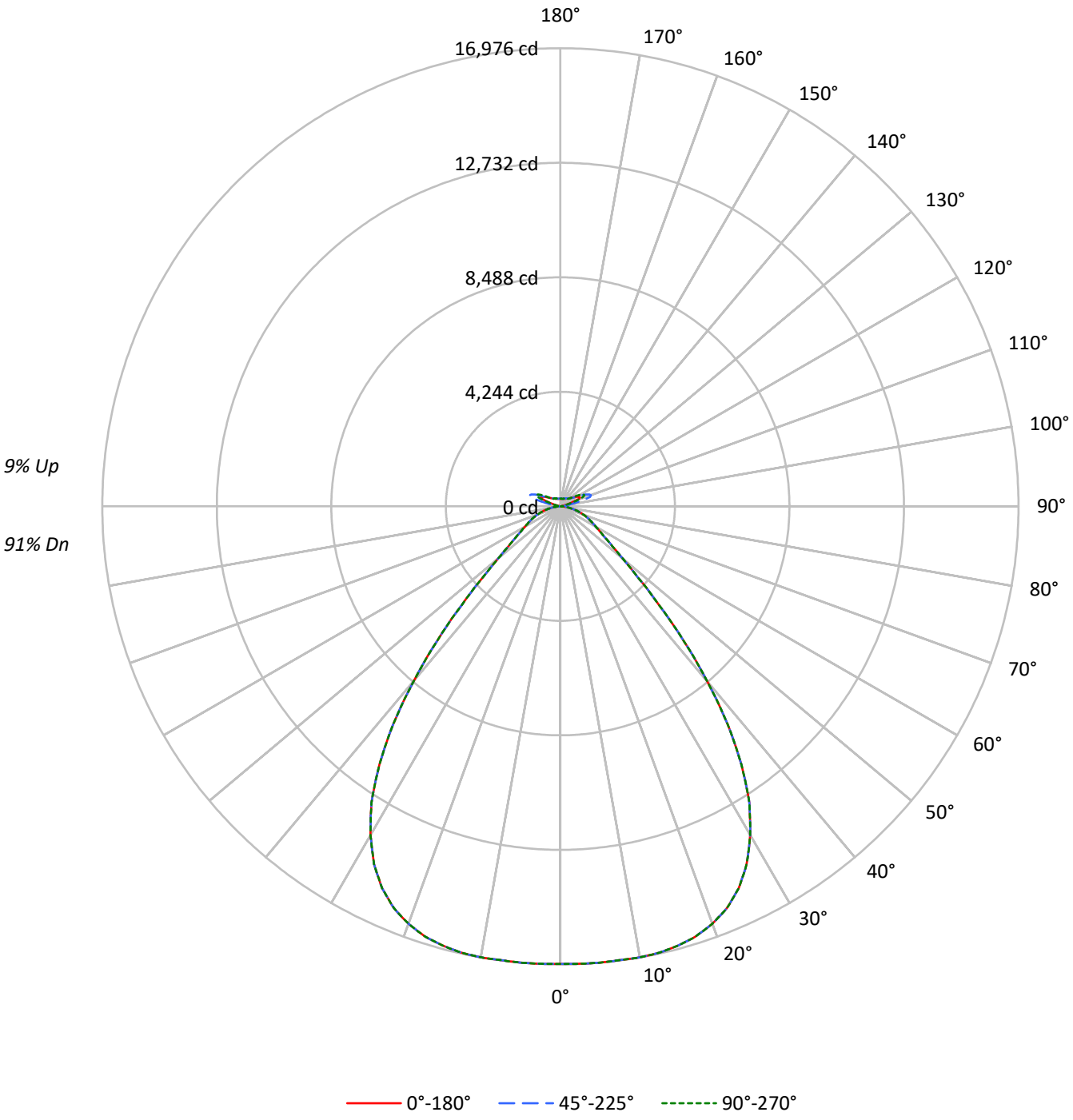
Luminous Intensity Polar Plot



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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	113	113	113	113	106	106	106	100	100	100	94	94	94	91
1	109	106	103	100	106	103	100	97	97	95	93	92	90	88	87	85	84	82
2	102	96	90	86	99	93	88	84	88	84	81	84	81	78	80	77	75	73
3	95	87	80	75	92	85	79	74	80	76	72	77	73	69	73	70	67	65
4	88	79	72	67	86	77	71	66	74	68	64	70	66	62	68	64	61	58
5	83	72	65	59	80	71	64	59	68	62	57	65	60	56	62	58	55	53
6	77	66	59	53	75	65	58	53	62	56	52	60	55	51	58	53	50	48
7	72	61	54	48	70	60	53	48	58	52	47	56	50	46	54	49	45	44
8	68	56	49	44	66	55	49	44	53	47	43	52	46	42	50	45	42	40
9	64	52	45	40	62	51	45	40	50	44	40	48	43	39	47	42	38	37
10	60	49	42	37	59	48	41	37	46	41	36	45	40	36	44	39	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	79646	79646	79646
5°	79509	79509	79509
10°	79882	79882	79882
15°	80341	80341	80341
20°	80099	80099	80099
25°	78228	78228	78228
30°	73149	73149	73149
35°	63706	63706	63706
40°	48823	48823	48823
45°	31895	31895	31895
50°	20107	20107	20107
55°	14988	14988	14988
60°	12619	12619	12619
65°	11475	11475	11475
70°	10452	10452	10452
75°	8949	8949	8949
80°	6891	6891	6891
85°	3614	3614	3614

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 31895 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1619.8	5.1
10°-20°	4757.0	15.1
20°-30°	7137.6	22.7
30°-40°	7181.2	22.8
40°-50°	4110.7	13.1
50°-60°	1880.1	6.0
60°-70°	1192.9	3.8
70°-80°	669.2	2.1
80°-90°	162.0	0.5
90°-100°	79.0	0.3
100°-110°	495.4	1.6
110°-120°	885.8	2.8
120°-130°	519.8	1.7
130°-140°	318.8	1.0
140°-150°	221.2	0.7
150°-160°	143.7	0.5
160°-170°	81.9	0.3
170°-180°	27.1	0.1
0°-30°	13514.5	42.9
0°-40°	20695.7	65.7
0°-60°	26686.5	84.8
0°-90°	28710.5	91.2
90°-120°	1460.2	4.6
90°-150°	2519.9	8.0
90°-180°	2773.0	8.8
0°-180°	31483.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16960	16960	16960	16960	16960	
5°	16976	16976	16976	16976	16976	1620
15°	16855	16855	16855	16855	16855	4757
25°	15622	15622	15622	15622	15622	7138
35°	11692	11692	11692	11692	11692	7181
45°	5160	5160	5160	5160	5160	4111
55°	2026	2026	2026	2026	2026	1880
65°	1198	1198	1198	1198	1198	1193
75°	630	630	630	630	630	669
85°	124	124	124	124	124	152
90°	21	33	57	36	21	15
95°	35	59	128	64	40	34
105°	173	341	871	376	229	232
115°	797	838	1030	987	981	734
125°	574	536	551	559	627	524
135°	419	406	421	395	394	328
145°	344	340	360	356	354	218
155°	302	298	313	313	313	141
165°	282	282	290	290	289	81
175°	279	279	284	284	284	27
180°	282	282	282	282	282	

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TEST NUMBER: P1436151
CATALOG NUMBER: EHBR1-30-UNV-M-L830-UPL30

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*16960.0*	16960.0	16960.0	16960.0	16960.0
2.5°	*16968.2*	16968.2	16968.2	16968.2	16968.2
5°	*16976.5*	*16976.5*	*16976.5*	*16976.5*	*16976.5*
7.5°	*16964.8*	16964.8	16964.8	16964.8	16964.8
10°	*16972.1*	16972.1	16972.1	16972.1	16972.1
12.5°	*16942.9*	16942.9	16942.9	16942.9	16942.9
15°	*16855.2*	16855.2	16855.2	16855.2	16855.2
17.5°	*16710.1*	16710.1	16710.1	16710.1	16710.1
20°	*16462.6*	16462.6	16462.6	16462.6	16462.6
22.5°	*16122.4*	16122.4	16122.4	16122.4	16122.4
25°	*15622.1*	15622.1	15622.1	15622.1	15622.1
27.5°	*14949.0*	14949.0	14949.0	14949.0	14949.0
30°	*14070.1*	14070.1	14070.1	14070.1	14070.1
32.5°	*13029.7*	13029.7	13029.7	13029.7	13029.7
35°	*11692.3*	11692.3	11692.3	11692.3	11692.3
37.5°	*10177.3*	10177.3	10177.3	10177.3	10177.3
40°	*8462.2*	8462.2	8462.2	8462.2	8462.2
42.5°	*6762.3*	6762.3	6762.3	6762.3	6762.3
45°	*5160.4*	5160.4	5160.4	5160.4	5160.4
47.5°	*3884.6*	3884.6	3884.6	3884.6	3884.6
50°	*2996.6*	2996.6	2996.6	2996.6	2996.6
52.5°	*2421.0*	2421.0	2421.0	2421.0	2421.0
55°	*2025.5*	2025.5	2025.5	2025.5	2025.5
57.5°	*1734.4*	1734.4	1734.4	1734.4	1734.4
60°	*1517.0*	1517.0	1517.0	1517.0	1517.0
62.5°	*1349.0*	1349.0	1349.0	1349.0	1349.0
65°	*1197.7*	1197.7	1197.7	1197.7	1197.7
67.5°	*1058.4*	1058.4	1058.4	1058.4	1058.4
70°	*917.1*	917.1	917.1	917.1	917.1
72.5°	*775.0*	775.0	775.0	775.0	775.0
75°	*630.4*	630.4	630.4	630.4	630.4
77.5°	*493.1*	493.1	493.1	493.1	493.1
80°	*362.5*	362.5	362.5	362.5	362.5
82.5°	*236.3*	236.3	236.3	236.3	236.3
85°	*124.2*	124.2	124.2	124.2	124.2
87.5°	*35.4*	35.4	35.4	35.4	35.4
90°	*20.6*	33.3	57.1	36.5	20.6
92.5°	*30.2*	50.8	92.1	47.6	27.0
95°	*34.9*	58.7	128.5	63.5	39.7
97.5°	*44.4*	65.1	147.6	77.7	61.9
100°	*58.7*	76.2	230.1	95.3	82.5
102.5°	*99.9*	161.9	488.8	179.4	125.4
105°	*173.0*	341.2	871.3	376.2	228.6
107.5°	*299.9*	611.0	1149.1	666.6	433.2
110°	*560.2*	811.0	1204.6	915.7	693.5

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CATALOG NUMBER: EHBR1-30-UNV-M-L830-UPL30

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	*757.0*	871.3	1153.8	1011.0	903.1
115°	*796.7*	838.0	1030.0	987.2	980.8
117.5°	*769.7*	765.0	874.5	887.2	947.5
120°	*712.6*	680.9	730.1	774.5	855.4
122.5°	*641.2*	603.1	625.3	658.6	739.6
125°	*574.5*	536.5	550.7	558.7	626.9
127.5°	*515.8*	490.4	498.3	488.8	531.7
130°	*476.1*	453.9	465.0	442.8	463.4
132.5°	*442.8*	428.5	441.2	414.2	420.6
135°	*419.0*	406.3	420.6	395.2	393.6
137.5°	*398.4*	387.2	401.6	382.5	377.7
140°	*379.3*	369.8	385.6	371.4	368.2
142.5°	*358.7*	352.3	371.4	361.9	358.7
145°	*344.4*	339.7	360.3	355.5	353.9
147.5°	*331.7*	328.5	347.6	346.0	346.0
150°	*320.6*	317.5	336.5	334.9	336.5
152.5°	*309.5*	306.3	323.7	322.1	323.7
155°	*301.5*	298.3	312.7	312.7	312.7
157.5°	*295.2*	293.6	304.7	304.7	304.7
160°	*290.5*	288.9	298.3	298.3	296.7
162.5°	*285.7*	284.1	295.2	293.6	293.6
165°	*282.5*	282.5	290.5	290.5	288.9
167.5°	*282.5*	280.9	288.9	288.9	287.3
170°	*280.9*	280.9	287.3	285.7	284.1
172.5°	*280.9*	280.9	287.3	285.7	284.1
175°	*279.3*	279.3	284.1	284.1	284.1
177.5°	*280.9*	280.9	284.1	284.1	282.5
180°	*282.5*	282.5	282.5	282.5	282.5

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TEST NUMBER: P1436151
CATALOG NUMBER: EHBR1-30-UNV-M-L830-UPL30

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	17.39	18.52	17.91	19.01	19.55	17.39	18.52	17.91	19.01	19.55
	3H	18.87	19.88	19.40	20.39	20.96	18.87	19.88	19.40	20.39	20.96
	4H	19.40	20.33	19.95	20.86	21.45	19.40	20.33	19.95	20.86	21.45
	6H	19.72	20.58	20.28	21.12	21.72	19.72	20.58	20.28	21.12	21.72
	8H	19.79	20.60	20.36	21.16	21.77	19.79	20.60	20.36	21.16	21.77
	12H	19.80	20.58	20.38	21.13	21.76	19.80	20.58	20.38	21.13	21.76
4H	2H	17.83	18.76	18.38	19.29	19.88	17.83	18.76	18.38	19.29	19.88
	3H	19.52	20.29	20.08	20.86	21.47	19.52	20.29	20.08	20.86	21.47
	4H	20.15	20.84	20.73	21.42	22.07	20.15	20.84	20.73	21.42	22.07
	6H	20.57	21.17	21.18	21.77	22.44	20.57	21.17	21.18	21.77	22.44
	8H	20.67	21.22	21.28	21.82	22.49	20.67	21.22	21.28	21.82	22.49
	12H	20.69	21.19	21.32	21.82	22.49	20.69	21.19	21.32	21.82	22.49
8H	4H	20.32	20.88	20.94	21.48	22.15	20.32	20.88	20.94	21.48	22.15
	6H	20.83	21.29	21.48	21.93	22.61	20.83	21.29	21.48	21.93	22.61
	8H	20.97	21.38	21.63	22.04	22.73	20.97	21.38	21.63	22.04	22.73
	12H	21.04	21.39	21.69	22.03	22.80	21.04	21.39	21.69	22.03	22.80
12H	4H	20.31	20.80	20.94	21.43	22.11	20.31	20.80	20.94	21.43	22.11
	6H	20.84	21.24	21.50	21.90	22.59	20.84	21.24	21.50	21.90	22.59
	8H	21.01	21.36	21.66	22.00	22.77	21.01	21.36	21.66	22.00	22.77

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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

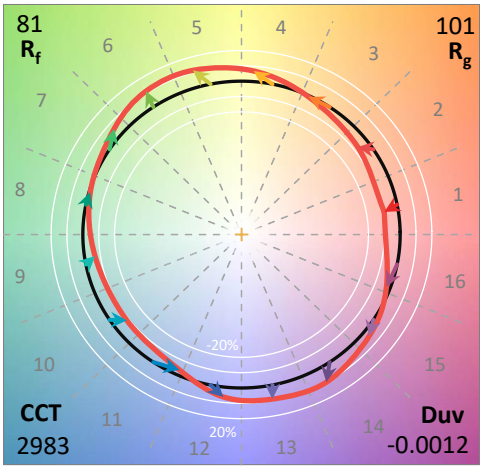
Test Information

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

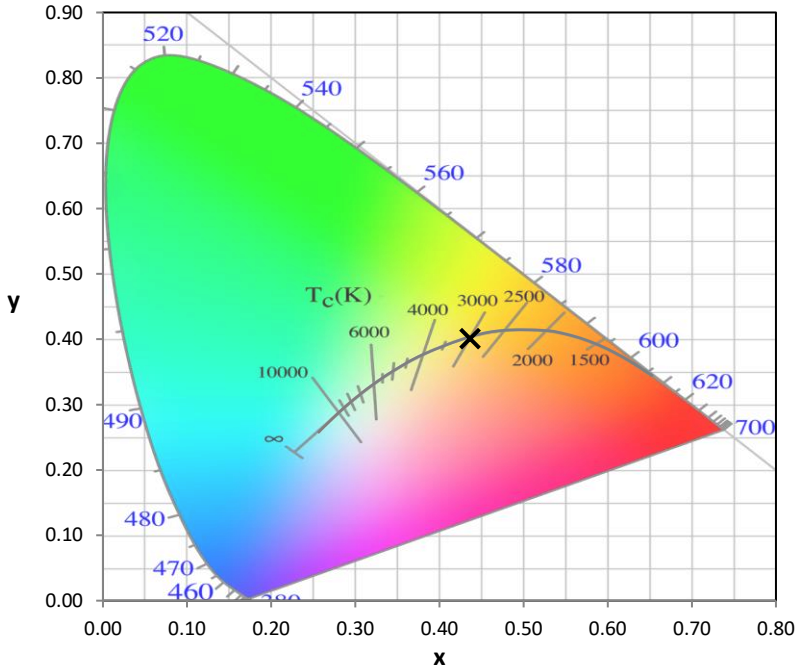
Stabilization Time:	38M
Operation Time:	1H 38M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-2

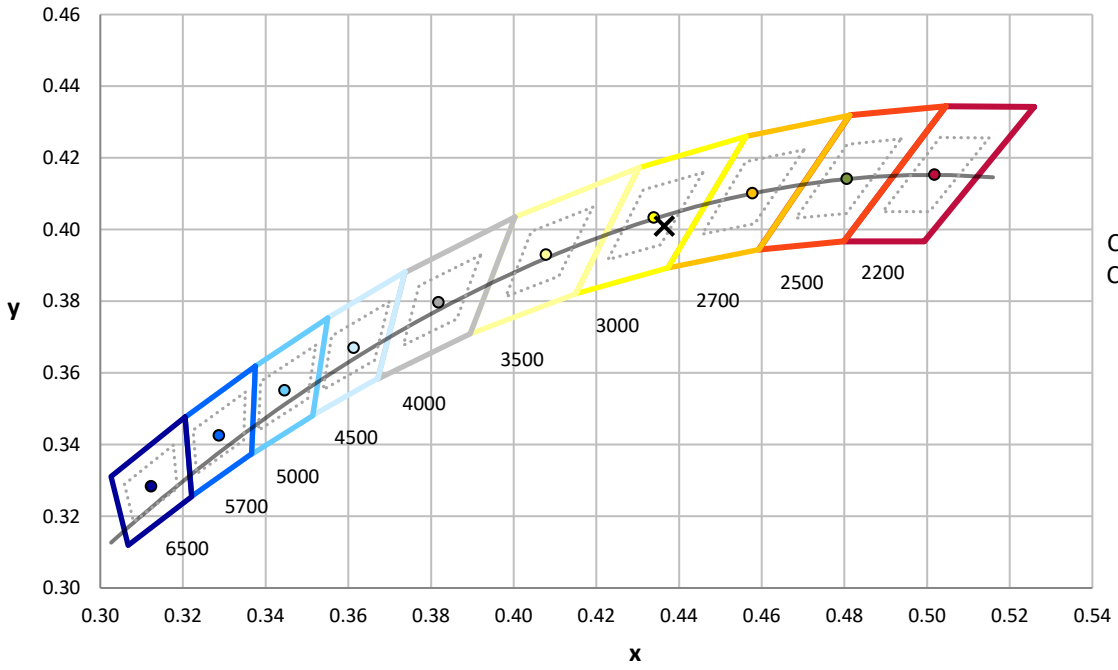
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

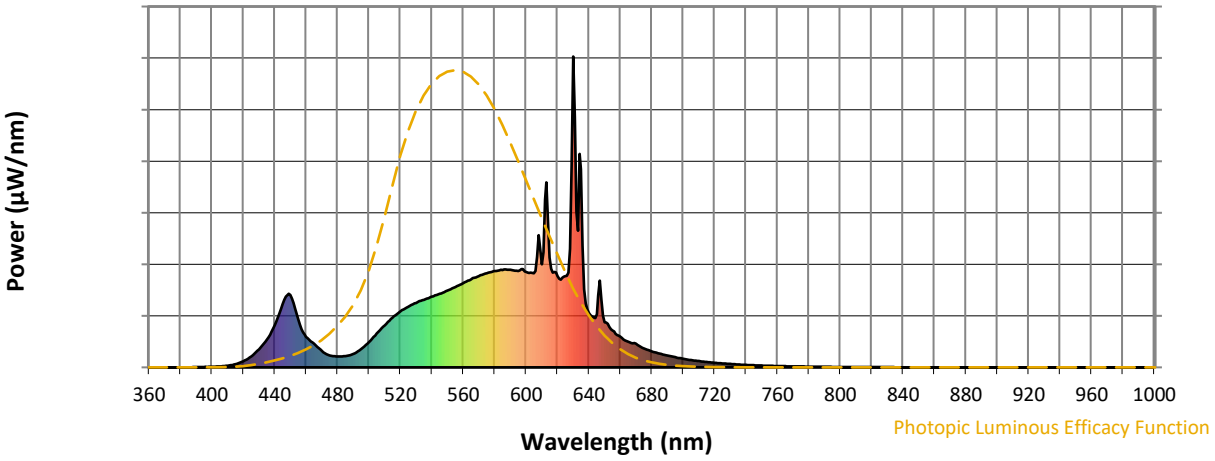


CCT = 2983K
CIE x = 0.4364
CIE y = 0.4010
Duv = -0.0012

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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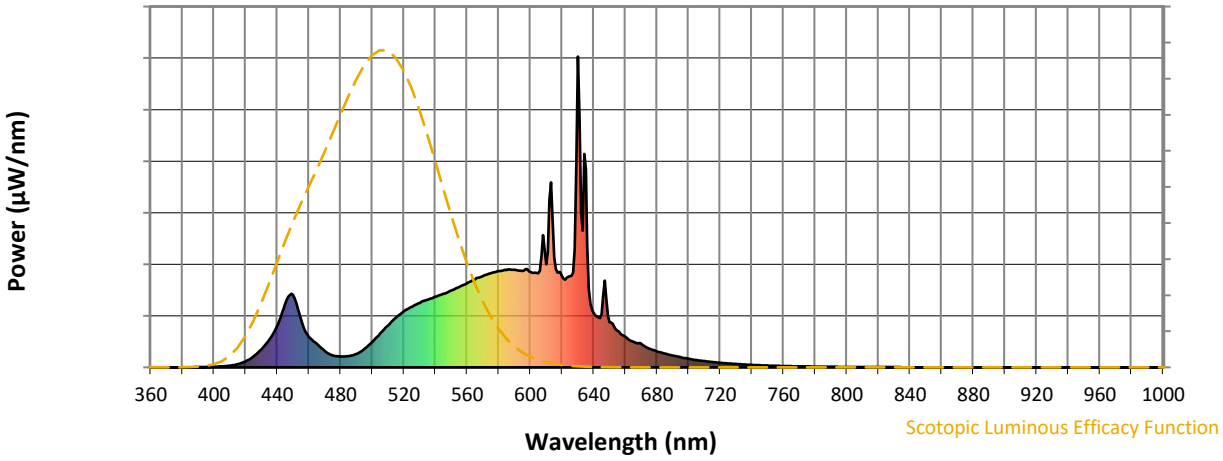
Scotopic Flux vs. Wavelength



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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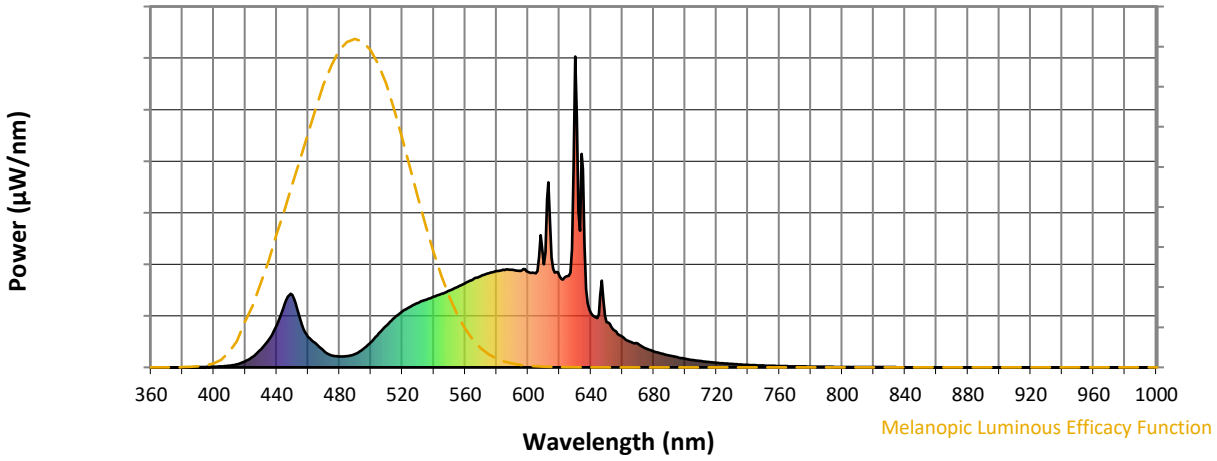
Melanopic Flux vs. Wavelength



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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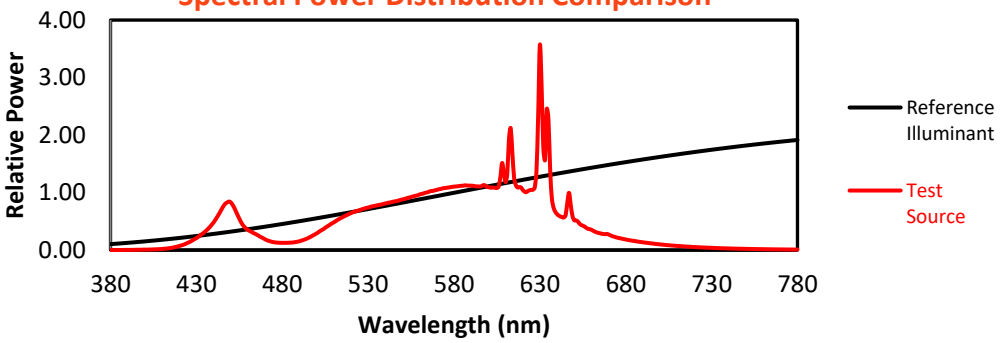
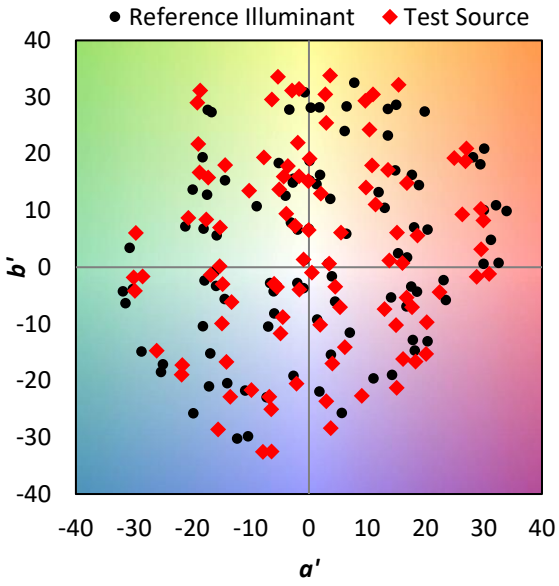
Summary

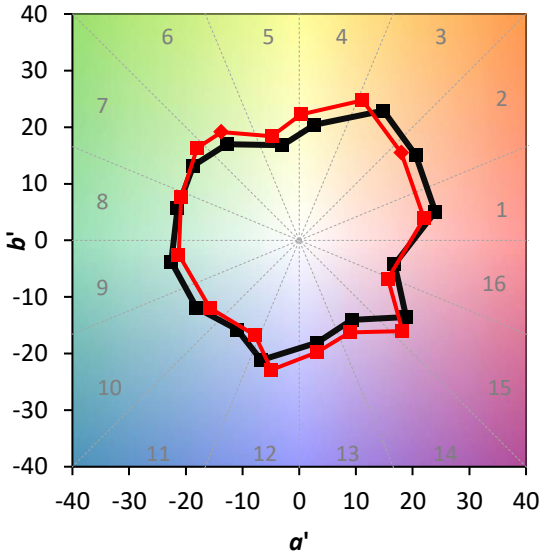
R_f = 81.2
R_g = 101.5
CIE R_a = 83.4
R_9 = 29.4

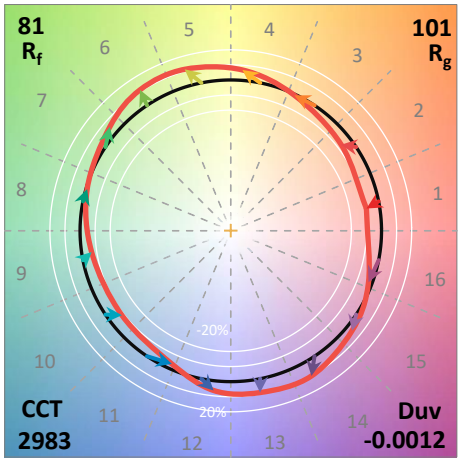
Spectral Power Distribution Comparison

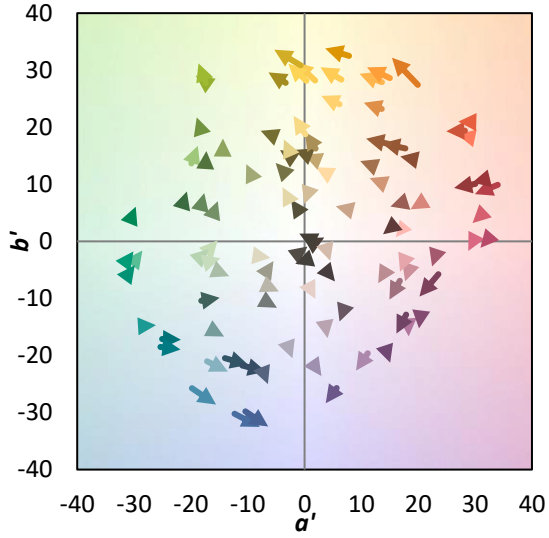


Color Vector Graphics









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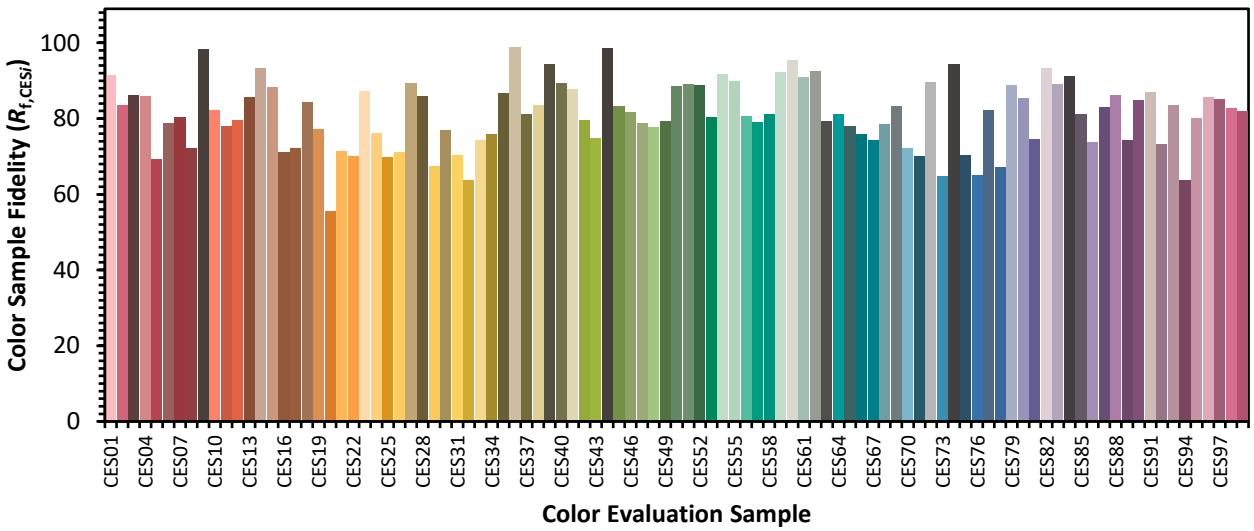
Individual Sample Fidelity Index ($R_{f,i}$)

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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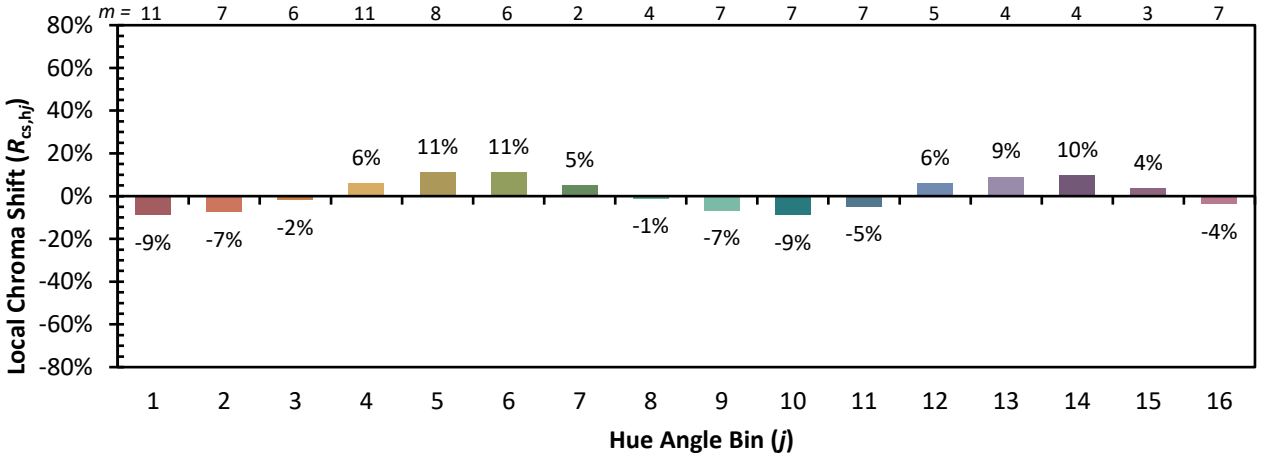
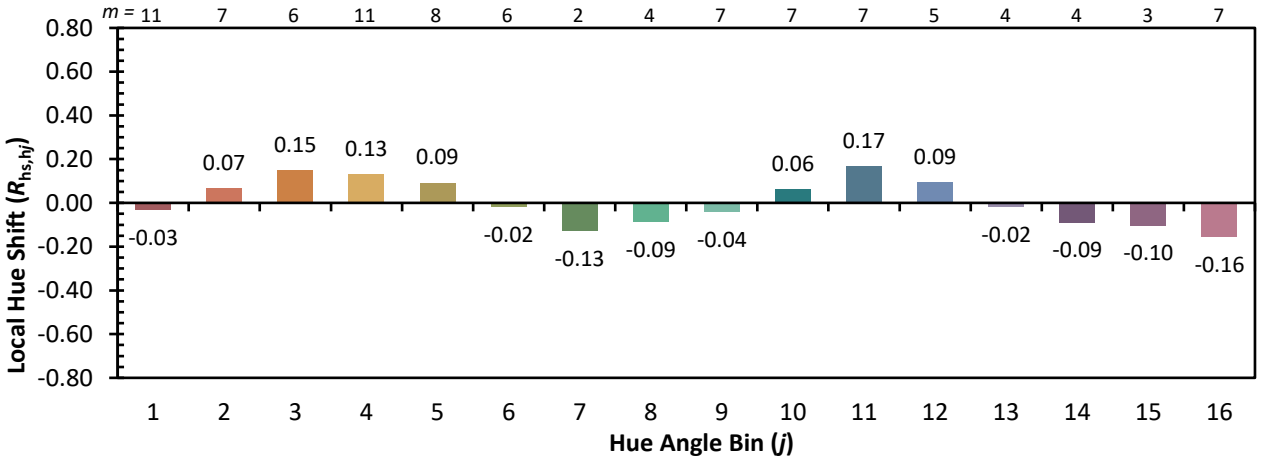
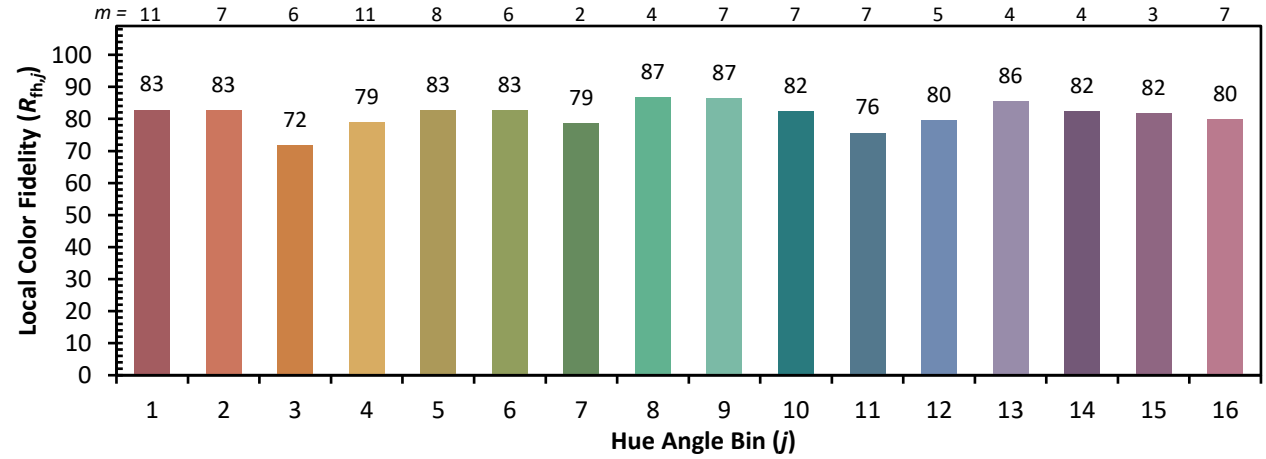
Color Rendition by Hue-Angle Bin







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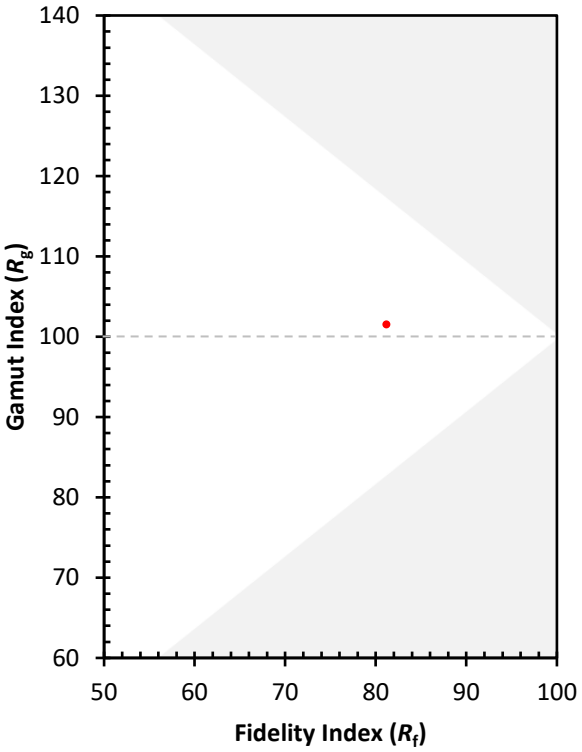
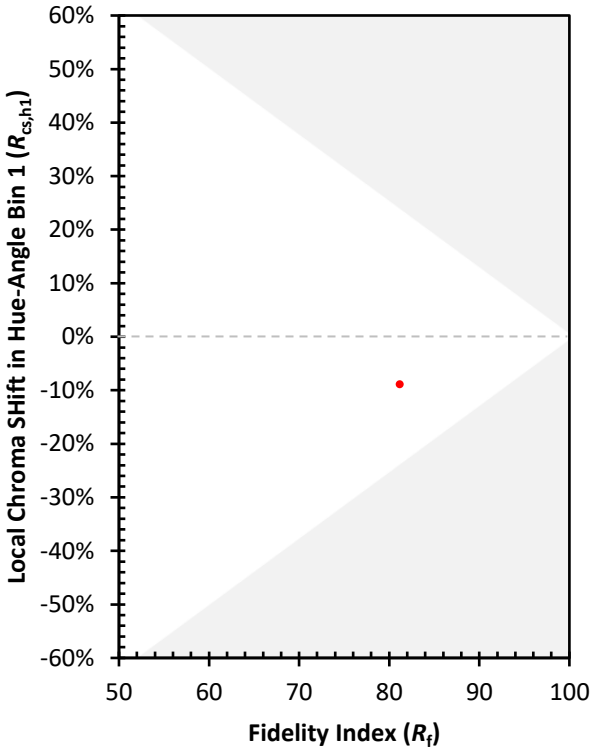
Measure Comparisons





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