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: P1432352

Luminaire Tested: EHBR1-24-UNV-W-L830-UPL36

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:	P1432352
	REPORT IS A COMBINATION OF REPORTS P1431729 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	3/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-24-UNV-W-L830-UPL36
Description:	Elevate Round Highbay at, 24000 lumens, 3000K 80CRI LEDs with W lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	26472.9 lumens
Efficiency:	N/A
Efficacy:	168.9 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:	Semi-Direct

Input Watts (W):	156.7
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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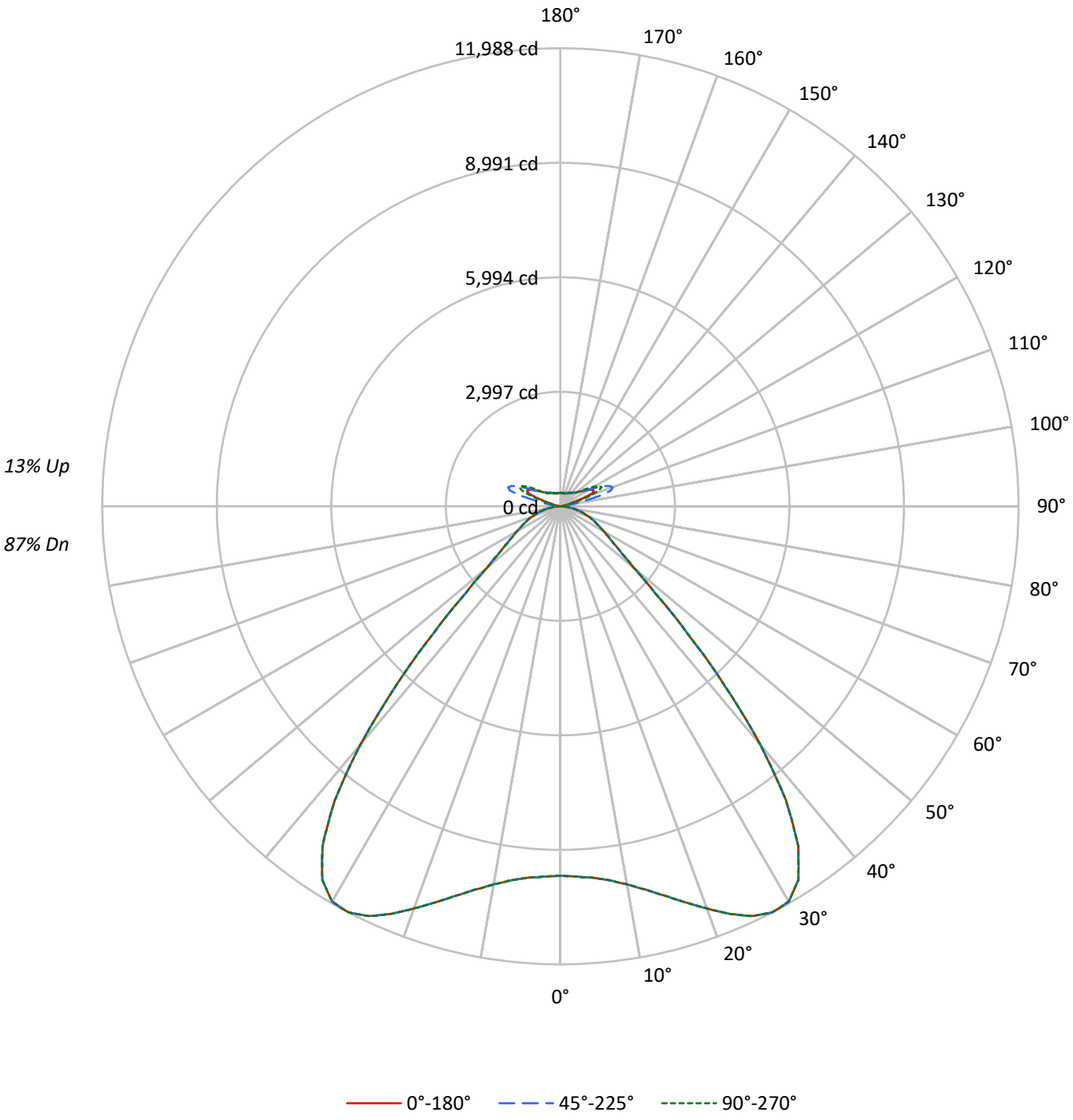
Luminous Intensity Polar Plot



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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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87
1	108	104	101	98	104	101	98	95	94	92	90	89	87	85	83	82	80	78
2	100	94	88	84	97	91	86	82	85	81	78	80	77	74	76	73	71	68
3	93	84	78	73	90	82	76	71	77	72	68	73	69	66	69	66	63	61
4	86	76	69	64	83	74	68	62	70	65	60	67	62	58	63	59	56	54
5	80	69	62	56	77	68	61	55	64	58	54	61	56	52	58	54	50	48
6	75	63	56	50	72	62	55	49	59	53	48	56	51	47	53	49	45	43
7	70	58	50	45	67	57	49	44	54	48	43	52	46	42	49	45	41	39
8	65	53	46	41	63	52	45	40	50	44	39	48	42	38	46	41	37	35
9	61	49	42	37	59	48	41	36	46	40	36	44	39	35	42	38	34	32
10	57	45	38	34	55	44	38	33	43	37	33	41	36	32	39	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	45395	45395	45395
5°	45697	45697	45697
10°	47285	47285	47285
15°	50281	50281	50281
20°	54506	54506	54506
25°	59253	59253	59253
30°	62107	62107	62107
35°	59116	59116	59116
40°	46908	46908	46908
45°	28993	28993	28993
50°	16789	16789	16789
55°	12702	12702	12702
60°	10897	10897	10897
65°	9842	9842	9842
70°	9054	9054	9054
75°	7998	7998	7998
80°	6518	6518	6518
85°	3844	3844	3844

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 28993 cd/sqm

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TEST NUMBER: P1432352
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	940.5	3.6
10°-20°	3015.2	11.4
20°-30°	5442.5	20.6
30°-40°	6576.7	24.8
40°-50°	3757.5	14.2
50°-60°	1591.4	6.0
60°-70°	1026.5	3.9
70°-80°	596.8	2.3
80°-90°	164.1	0.6
90°-100°	96.1	0.4
100°-110°	598.8	2.3
110°-120°	1070.5	4.0
120°-130°	628.7	2.4
130°-140°	387.3	1.5
140°-150°	270.1	1.0
150°-160°	176.1	0.7
160°-170°	100.7	0.4
170°-180°	33.3	0.1
0°-30°	9398.2	35.5
0°-40°	15975.0	60.3
0°-60°	21323.9	80.5
0°-90°	23111.3	87.3
90°-120°	1765.5	6.7
90°-150°	3051.5	11.5
90°-180°	3362.0	12.7
0°-180°	26472.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9667	9667	9667	9667	9667	
5°	9757	9757	9757	9757	9757	941
15°	10549	10549	10549	10549	10549	3015
25°	11833	11833	11833	11833	11833	5443
35°	10850	10850	10850	10850	10850	6577
45°	4691	4691	4691	4691	4691	3757
55°	1717	1717	1717	1717	1717	1591
65°	1027	1027	1027	1027	1027	1027
75°	563	563	563	563	563	597
85°	132	132	132	132	132	152
90°	26	41	70	45	26	18
95°	43	72	156	77	49	41
105°	210	413	1053	455	277	280
115°	963	1013	1245	1193	1185	887
125°	695	649	666	676	758	634
135°	509	494	511	480	478	398
145°	421	415	440	434	432	267
155°	370	366	383	383	383	172
165°	348	348	357	357	355	99
175°	344	344	350	350	350	33
180°	349	349	349	349	349	

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TEST NUMBER: P1432352
CATALOG NUMBER: EHBR1-24-UNV-W-L830-UPL36

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*9666.6*	9666.6	9666.6	9666.6	9666.6
2.5°	*9699.1*	9699.1	9699.1	9699.1	9699.1
5°	*9757.0*	9757.0	9757.0	9757.0	9757.0
7.5°	*9870.9*	9870.9	9870.9	9870.9	9870.9
10°	*10046.3*	10046.3	10046.3	10046.3	10046.3
12.5°	*10274.1*	10274.1	10274.1	10274.1	10274.1
15°	*10548.7*	10548.7	10548.7	10548.7	10548.7
17.5°	*10863.1*	10863.1	10863.1	10863.1	10863.1
20°	*11202.5*	11202.5	11202.5	11202.5	11202.5
22.5°	*11544.3*	11544.3	11544.3	11544.3	11544.3
25°	*11832.8*	11832.8	11832.8	11832.8	11832.8
27.5°	*11988.0*	*11988.0*	*11988.0*	*11988.0*	*11988.0*
30°	*11946.3*	11946.3	11946.3	11946.3	11946.3
32.5°	*11592.1*	11592.1	11592.1	11592.1	11592.1
35°	*10849.9*	10849.9	10849.9	10849.9	10849.9
37.5°	*9692.5*	9692.5	9692.5	9692.5	9692.5
40°	*8130.4*	8130.4	8130.4	8130.4	8130.4
42.5°	*6363.6*	6363.6	6363.6	6363.6	6363.6
45°	*4691.0*	4691.0	4691.0	4691.0	4691.0
47.5°	*3352.9*	3352.9	3352.9	3352.9	3352.9
50°	*2502.1*	2502.1	2502.1	2502.1	2502.1
52.5°	*2025.9*	2025.9	2025.9	2025.9	2025.9
55°	*1716.6*	1716.6	1716.6	1716.6	1716.6
57.5°	*1490.7*	1490.7	1490.7	1490.7	1490.7
60°	*1310.0*	1310.0	1310.0	1310.0	1310.0
62.5°	*1159.4*	1159.4	1159.4	1159.4	1159.4
65°	*1027.3*	1027.3	1027.3	1027.3	1027.3
67.5°	*910.7*	910.7	910.7	910.7	910.7
70°	*794.4*	794.4	794.4	794.4	794.4
72.5°	*678.6*	678.6	678.6	678.6	678.6
75°	*563.4*	563.4	563.4	563.4	563.4
77.5°	*452.6*	452.6	452.6	452.6	452.6
80°	*342.9*	342.9	342.9	342.9	342.9
82.5°	*235.2*	235.2	235.2	235.2	235.2
85°	*132.1*	132.1	132.1	132.1	132.1
87.5°	*41.7*	41.7	41.7	41.7	41.7
90°	*25.7*	41.0	69.7	44.8	25.7
92.5°	*36.8*	61.7	111.5	57.9	33.0
95°	*42.9*	71.7	156.0	77.4	48.6
97.5°	*54.4*	79.3	178.9	94.6	75.5
100°	*71.7*	92.7	278.6	115.7	100.4
102.5°	*121.5*	196.1	590.9	217.2	152.1
105°	*209.5*	412.7	1052.6	454.9	276.6
107.5°	*362.9*	738.4	1387.9	805.5	523.8
110°	*677.4*	980.2	1455.4	1106.6	838.4

TEST NUMBER: P1432352
CATALOG NUMBER: EHBR1-24-UNV-W-L830-UPL36

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	*915.1*	1053.0	1394.0	1221.6	1091.3
115°	*962.9*	1012.8	1244.6	1192.8	1185.2
117.5°	*930.3*	924.6	1056.8	1072.2	1144.9
120°	*861.4*	823.1	882.5	936.1	1033.8
122.5°	*775.1*	729.2	756.0	796.2	894.0
125°	*695.0*	649.0	666.4	675.9	758.3
127.5°	*624.2*	593.5	603.1	591.6	643.3
130°	*576.7*	549.9	563.3	536.5	561.5
132.5°	*537.3*	520.1	535.3	502.7	510.4
135°	*508.9*	493.6	510.8	480.2	478.3
137.5°	*484.4*	471.0	488.2	465.2	459.5
140°	*462.2*	450.7	469.8	452.5	448.7
142.5°	*437.6*	429.9	452.9	441.5	437.6
145°	*420.9*	415.1	440.0	434.3	432.3
147.5°	*405.9*	402.0	425.0	423.1	423.1
150°	*392.5*	388.6	411.6	409.7	411.6
152.5°	*379.1*	375.2	396.3	394.4	396.3
155°	*369.8*	366.0	383.2	383.2	383.2
157.5°	*362.1*	360.3	373.7	373.7	373.7
160°	*356.8*	354.9	366.3	366.3	364.5
162.5°	*351.5*	349.5	362.9	361.0	361.0
165°	*347.6*	347.6	357.2	357.2	355.3
167.5°	*347.6*	345.6	355.3	355.3	353.3
170°	*345.6*	345.6	353.3	351.5	349.5
172.5°	*346.0*	346.0	353.7	351.8	349.9
175°	*344.5*	344.5	350.2	350.2	350.2
177.5°	*346.4*	346.4	350.2	350.2	348.4
180°	*348.7*	348.7	348.7	348.7	348.7

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Scaled Data Report

TEST NUMBER: P1432352
CATALOG NUMBER: EHBR1-24-UNV-W-L830-UPL36

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	16.76	17.86	17.33	18.42	19.04	16.76	17.86	17.33	18.42	19.04
	3H	18.25	19.23	18.84	19.80	20.47	18.25	19.23	18.84	19.80	20.47
	4H	18.81	19.73	19.41	20.31	20.99	18.81	19.73	19.41	20.31	20.99
	6H	19.19	20.03	19.81	20.63	21.32	19.19	20.03	19.81	20.63	21.32
	8H	19.28	20.09	19.92	20.70	21.40	19.28	20.09	19.92	20.70	21.40
	12H	19.32	20.08	19.95	20.69	21.41	19.32	20.08	19.95	20.69	21.41
4H	2H	17.19	18.11	17.80	18.70	19.37	17.19	18.11	17.80	18.70	19.37
	3H	18.90	19.66	19.52	20.29	20.98	18.90	19.66	19.52	20.29	20.98
	4H	19.58	20.26	20.22	20.89	21.62	19.58	20.26	20.22	20.89	21.62
	6H	20.07	20.66	20.73	21.32	22.06	20.07	20.66	20.73	21.32	22.06
	8H	20.20	20.75	20.87	21.41	22.16	20.20	20.75	20.87	21.41	22.16
	12H	20.26	20.75	20.94	21.43	22.19	20.26	20.75	20.94	21.43	22.19
8H	4H	19.78	20.33	20.44	20.98	21.73	19.78	20.33	20.44	20.98	21.73
	6H	20.37	20.82	21.06	21.52	22.28	20.37	20.82	21.06	21.52	22.28
	8H	20.56	20.96	21.27	21.67	22.44	20.56	20.96	21.27	21.67	22.44
	12H	20.66	21.02	21.37	21.71	22.55	20.66	21.02	21.37	21.71	22.55
12H	4H	19.77	20.26	20.45	20.94	21.70	19.77	20.26	20.45	20.94	21.70
	6H	20.39	20.79	21.10	21.50	22.27	20.39	20.79	21.10	21.50	22.27
	8H	20.61	20.96	21.31	21.66	22.49	20.61	20.96	21.31	21.66	22.49

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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

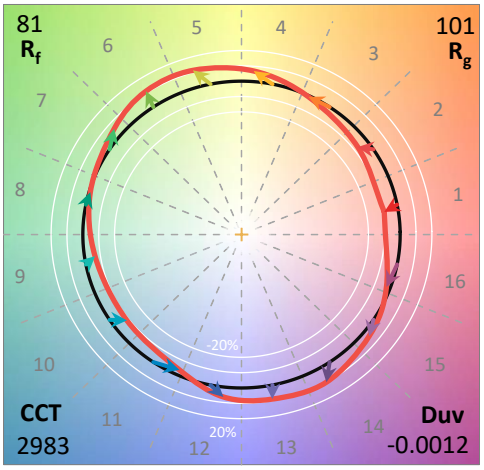
Test Information

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

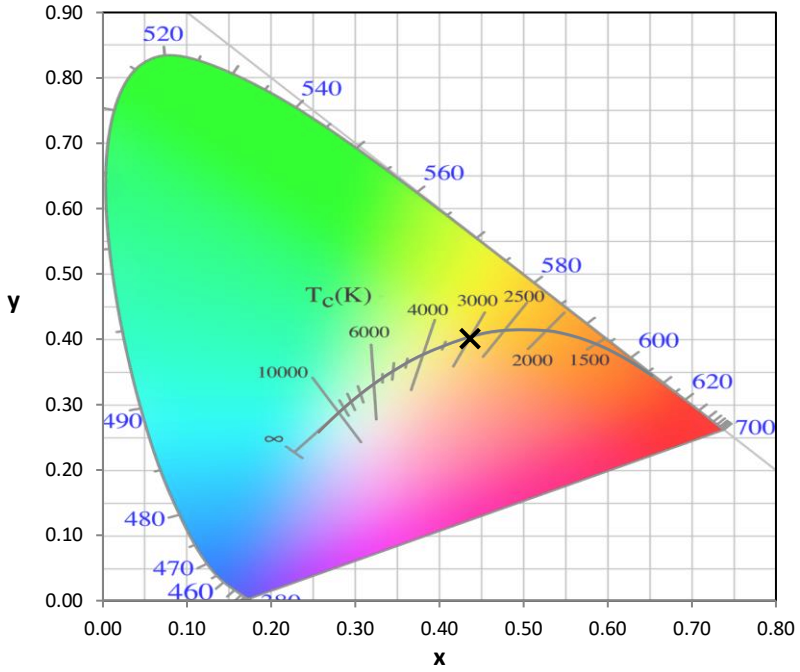
Stabilization Time:	38M
Operation Time:	1H 38M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-2

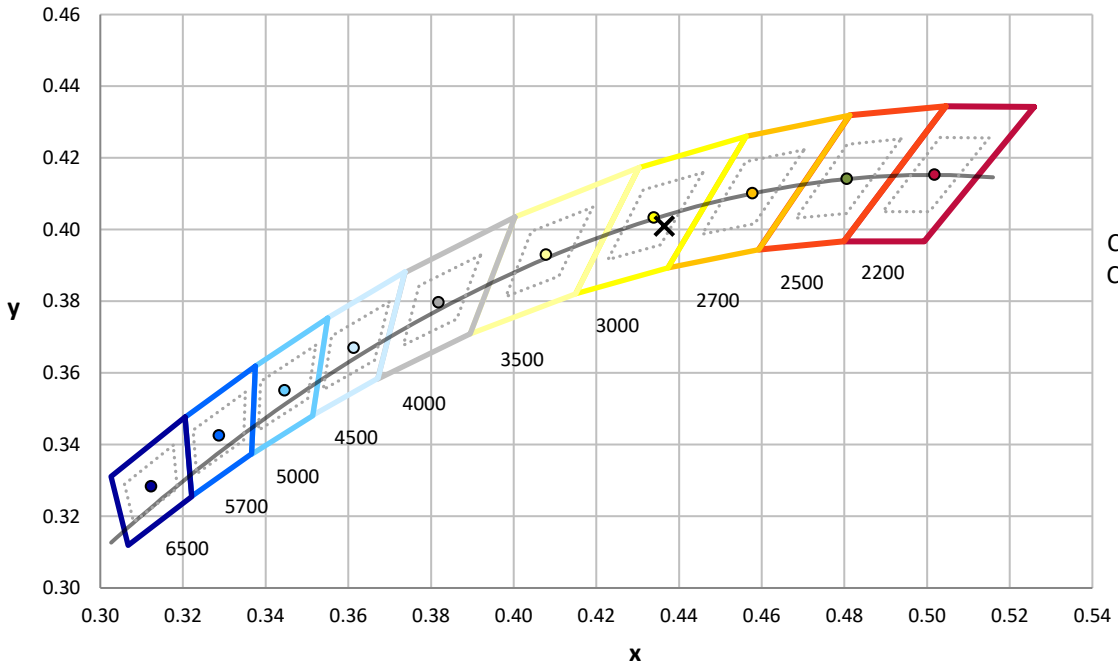
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

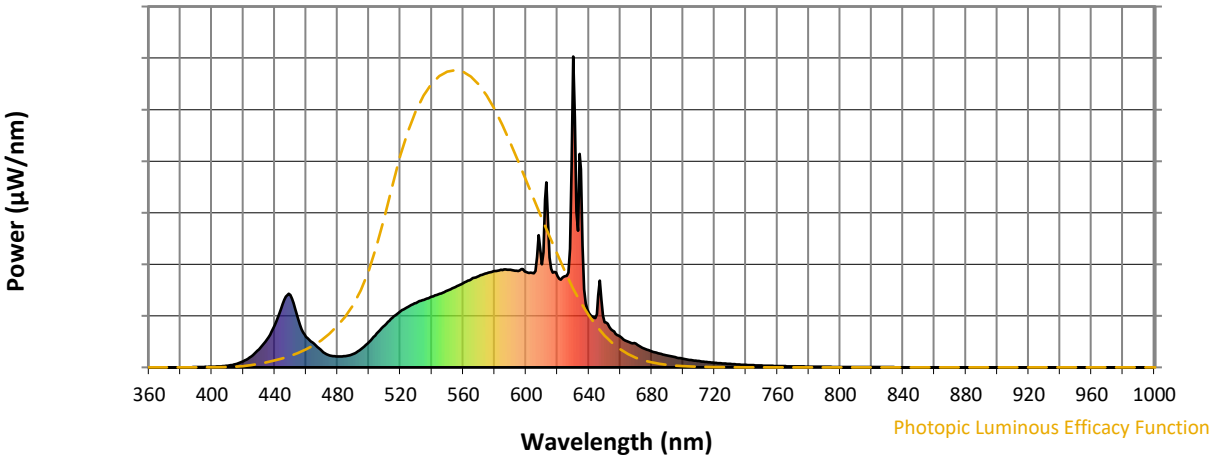


CCT = 2983K
CIE x = 0.4364
CIE y = 0.4010
Duv = -0.0012

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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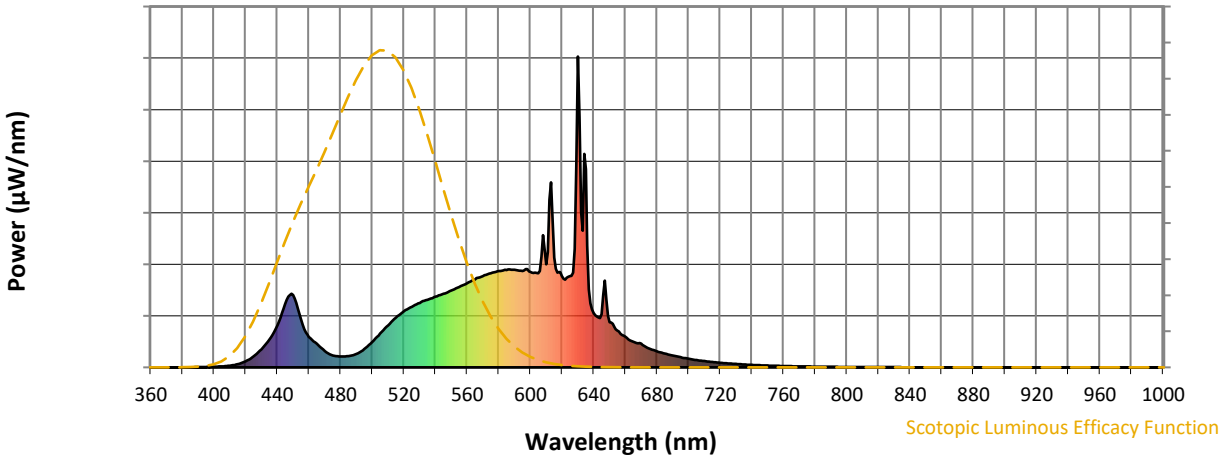
Scotopic Flux vs. Wavelength



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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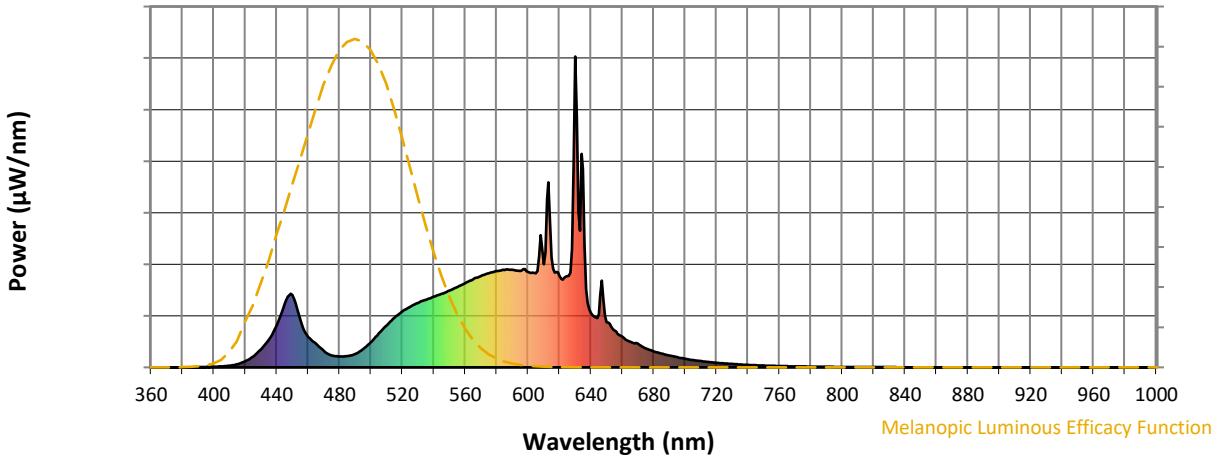
Melanopic Flux vs. Wavelength



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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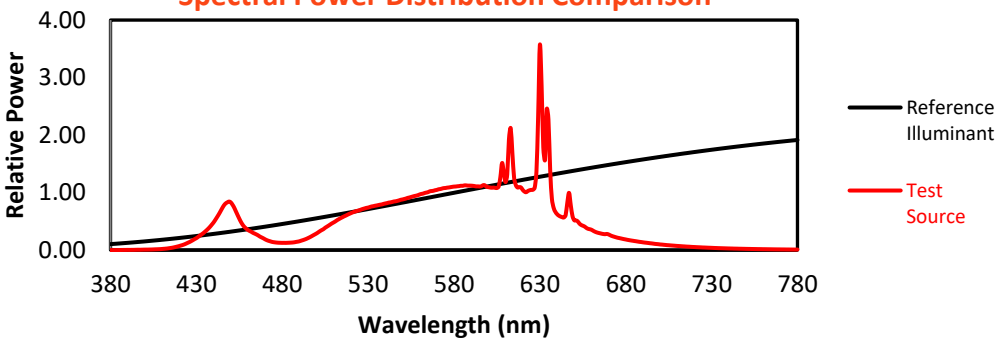
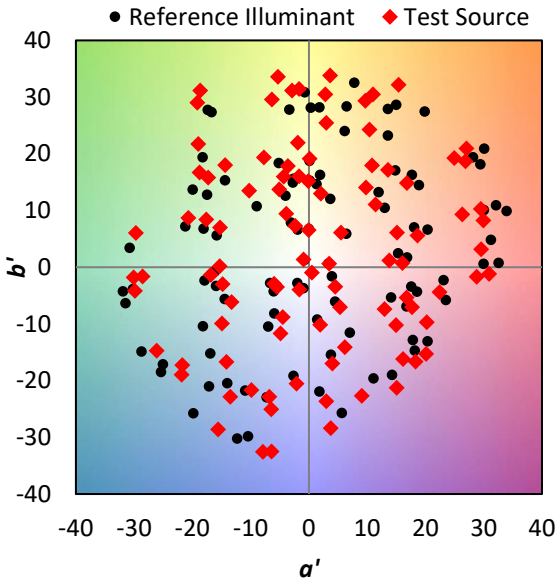
Summary

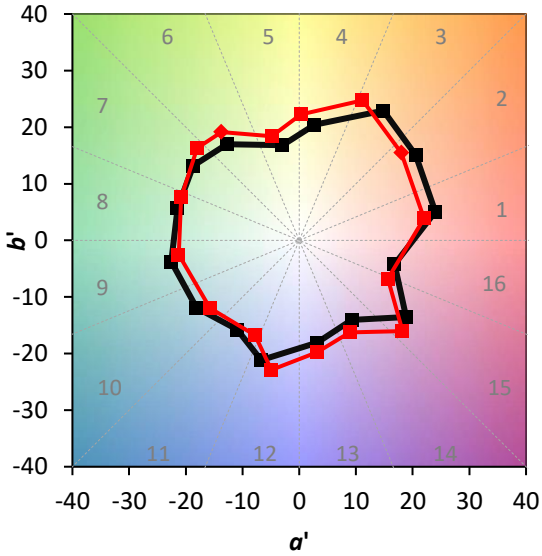
R_f = 81.2
R_g = 101.5
CIE R_a = 83.4
R_9 = 29.4

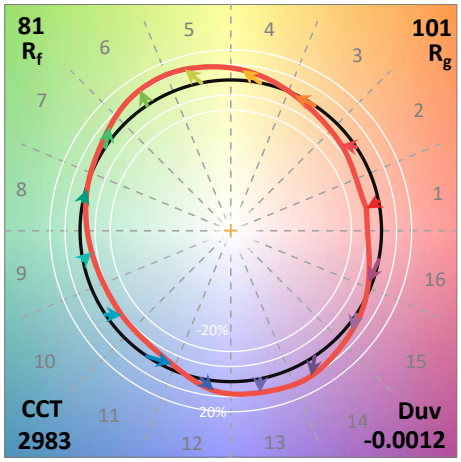
Spectral Power Distribution Comparison

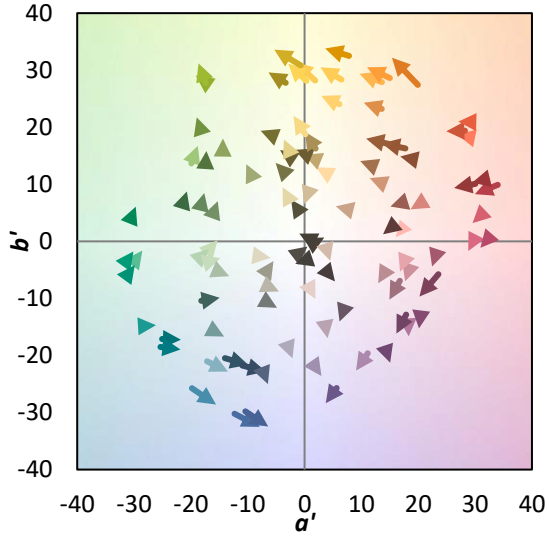


Color Vector Graphics









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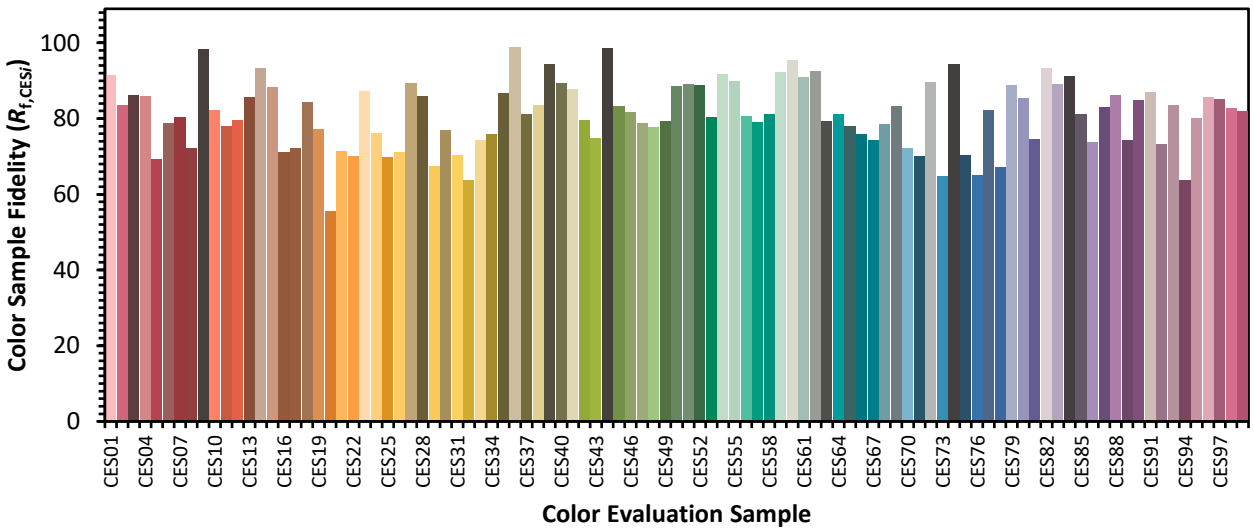
Individual Sample Fidelity Index ($R_{f,i}$)

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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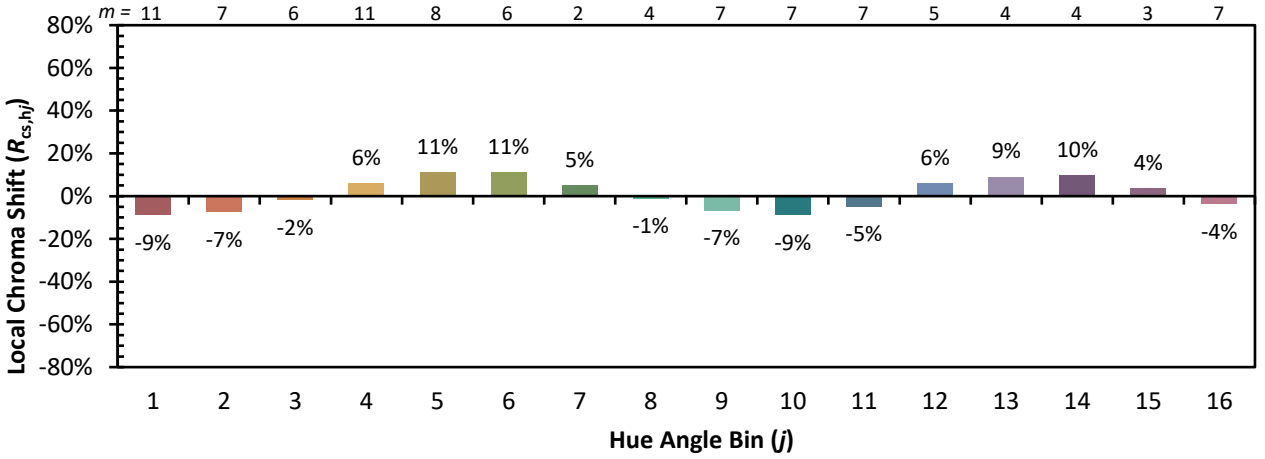
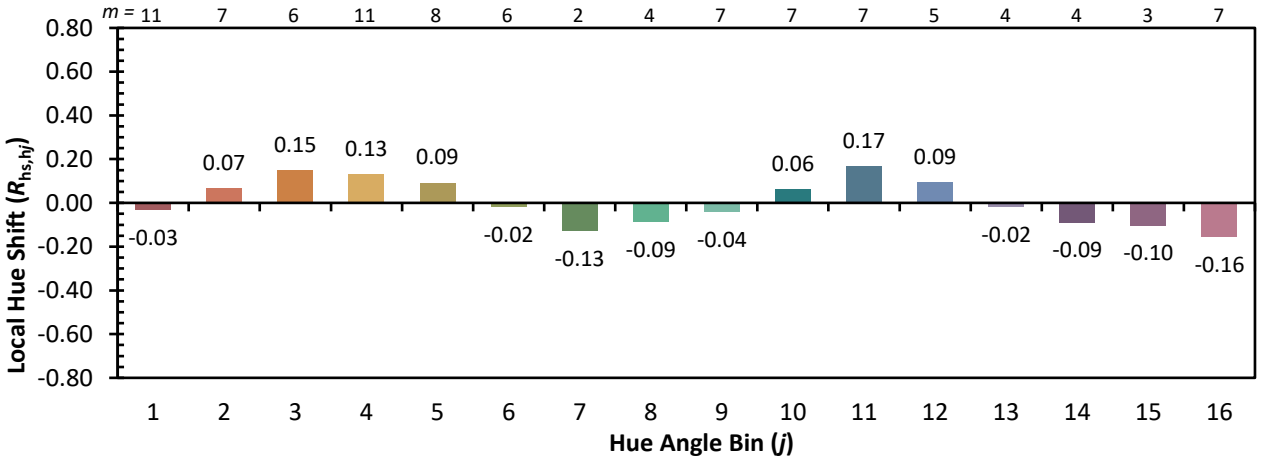
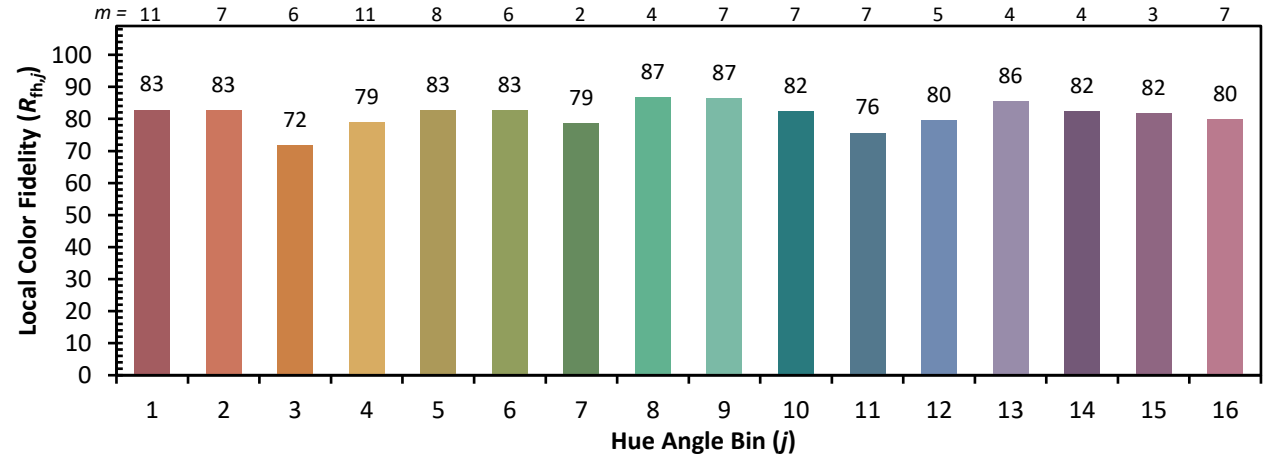
Color Rendition by Hue-Angle Bin







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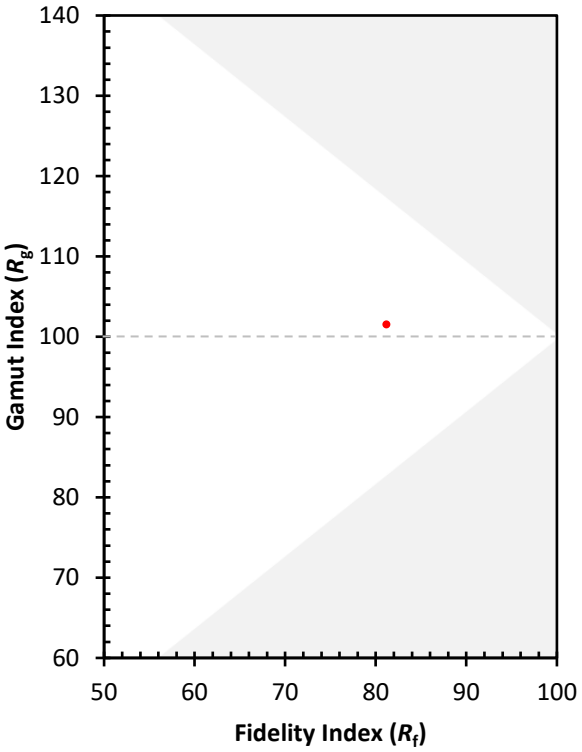
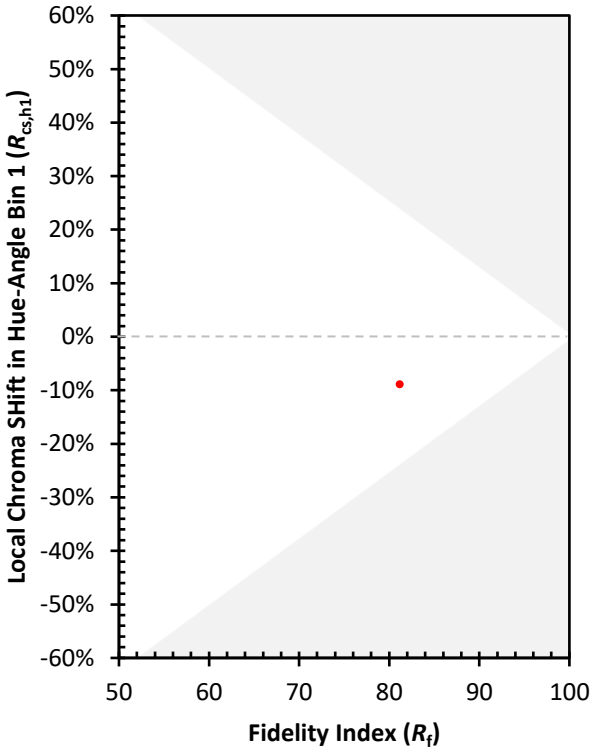
Measure Comparisons





(END OF REPORT)