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: EHBR1-54-UNV-W-L950-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 P1431887 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	3/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-54-UNV-W-L950-UPL24
Description:	Elevate Round Highbay at, 55000 lumens, 5000K 90CRI LEDs with W lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	51940.7 lumens
Efficiency:	N/A
Efficacy:	166.2 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):	312.5
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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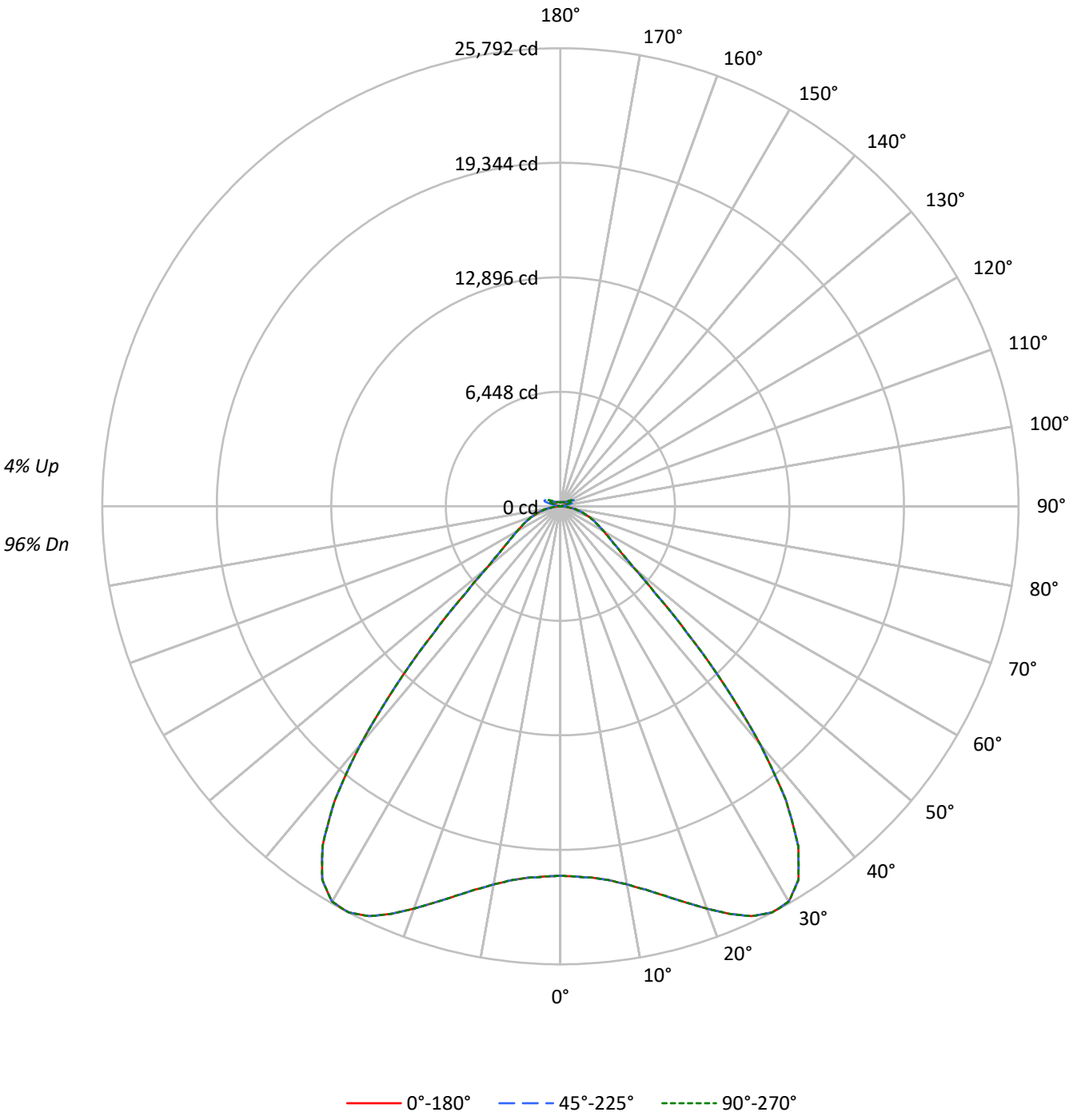
Luminous Intensity Polar Plot



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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	103	103	103	98	98	98	96
1	110	106	103	100	107	104	101	98	99	96	94	94	92	91	90	89	87	85
2	102	96	90	86	100	94	89	85	90	85	82	86	82	80	82	80	77	75
3	95	87	80	75	92	85	79	74	81	76	72	78	74	70	75	72	69	66
4	88	78	71	66	86	77	70	65	74	68	64	71	66	62	69	65	61	59
5	82	71	64	58	80	70	63	58	68	61	57	65	60	56	63	59	55	53
6	77	65	57	52	75	64	57	52	62	56	51	60	54	50	58	53	49	48
7	72	60	52	47	70	59	52	46	57	51	46	55	50	45	54	49	45	43
8	67	55	47	42	65	54	47	42	53	46	42	51	45	41	50	44	41	39
9	63	51	43	38	61	50	43	38	49	42	38	47	42	37	46	41	37	35
10	59	47	40	35	58	46	39	35	45	39	35	44	38	34	43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	97669	97669	97669
5°	98318	98318	98318
10°	101734	101734	101734
15°	108181	108181	108181
20°	117271	117271	117271
25°	127484	127484	127484
30°	133626	133626	133626
35°	127190	127190	127190
40°	100924	100924	100924
45°	62380	62380	62380
50°	36122	36122	36122
55°	27329	27329	27329
60°	23444	23444	23444
65°	21175	21175	21175
70°	19478	19478	19478
75°	17209	17209	17209
80°	14025	14025	14025
85°	8266	8266	8266

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 62380 cd/sqm

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TEST NUMBER:
CATALOG NUMBER: EHBR1-54-UNV-W-L950-UPL24

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2023.5	3.9
10°-20°	6487.3	12.5
20°-30°	11709.8	22.5
30°-40°	14150.0	27.2
40°-50°	8084.4	15.6
50°-60°	3424.0	6.6
60°-70°	2208.5	4.3
70°-80°	1284.1	2.5
80°-90°	343.8	0.7
90°-100°	64.1	0.1
100°-110°	393.8	0.8
110°-120°	703.4	1.4
120°-130°	414.0	0.8
130°-140°	257.4	0.5
140°-150°	181.6	0.3
150°-160°	119.3	0.2
160°-170°	68.7	0.1
170°-180°	22.8	0.0
0°-30°	20220.5	38.9
0°-40°	34370.6	66.2
0°-60°	45878.9	88.3
0°-90°	49715.3	95.7
90°-120°	1161.3	2.2
90°-150°	2014.4	3.9
90°-180°	2225.0	4.3
0°-180°	51940.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20798	20798	20798	20798	20798	
5°	20992	20992	20992	20992	20992	2024
15°	22696	22696	22696	22696	22696	6487
25°	25458	25458	25458	25458	25458	11710
35°	23344	23344	23344	23344	23344	14150
45°	10093	10093	10093	10093	10093	8084
55°	3693	3693	3693	3693	3693	3424
65°	2210	2210	2210	2210	2210	2208
75°	1212	1212	1212	1212	1212	1284
85°	284	284	284	284	284	327
90°	18	28	47	31	18	21
95°	29	48	103	52	33	28
105°	138	272	691	299	182	185
115°	633	666	818	784	779	583
125°	458	428	439	445	499	417
135°	338	328	340	319	318	264
145°	283	280	296	292	291	179
155°	251	248	260	260	260	117
165°	238	238	244	244	243	68
175°	237	237	240	240	240	23
180°	240	240	240	240	240	

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TEST NUMBER:
CATALOG NUMBER: EHBR1-54-UNV-W-L950-UPL24

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*20798.0*	20798.0	20798.0	20798.0	20798.0
2.5°	*20867.8*	20867.8	20867.8	20867.8	20867.8
5°	*20992.5*	20992.5	20992.5	20992.5	20992.5
7.5°	*21237.6*	21237.6	21237.6	21237.6	21237.6
10°	*21614.8*	21614.8	21614.8	21614.8	21614.8
12.5°	*22105.0*	22105.0	22105.0	22105.0	22105.0
15°	*22695.8*	22695.8	22695.8	22695.8	22695.8
17.5°	*23372.1*	23372.1	23372.1	23372.1	23372.1
20°	*24102.5*	24102.5	24102.5	24102.5	24102.5
22.5°	*24837.8*	24837.8	24837.8	24837.8	24837.8
25°	*25458.5*	25458.5	25458.5	25458.5	25458.5
27.5°	*25792.5*	*25792.5*	*25792.5*	*25792.5*	*25792.5*
30°	*25702.8*	25702.8	25702.8	25702.8	25702.8
32.5°	*24940.9*	24940.9	24940.9	24940.9	24940.9
35°	*23343.9*	23343.9	23343.9	23343.9	23343.9
37.5°	*20853.7*	20853.7	20853.7	20853.7	20853.7
40°	*17492.7*	17492.7	17492.7	17492.7	17492.7
42.5°	*13691.4*	13691.4	13691.4	13691.4	13691.4
45°	*10092.9*	10092.9	10092.9	10092.9	10092.9
47.5°	*7213.8*	7213.8	7213.8	7213.8	7213.8
50°	*5383.4*	5383.4	5383.4	5383.4	5383.4
52.5°	*4358.8*	4358.8	4358.8	4358.8	4358.8
55°	*3693.3*	3693.3	3693.3	3693.3	3693.3
57.5°	*3207.2*	3207.2	3207.2	3207.2	3207.2
60°	*2818.4*	2818.4	2818.4	2818.4	2818.4
62.5°	*2494.3*	2494.3	2494.3	2494.3	2494.3
65°	*2210.2*	2210.2	2210.2	2210.2	2210.2
67.5°	*1959.2*	1959.2	1959.2	1959.2	1959.2
70°	*1709.1*	1709.1	1709.1	1709.1	1709.1
72.5°	*1459.9*	1459.9	1459.9	1459.9	1459.9
75°	*1212.3*	1212.3	1212.3	1212.3	1212.3
77.5°	*973.8*	973.8	973.8	973.8	973.8
80°	*737.8*	737.8	737.8	737.8	737.8
82.5°	*506.0*	506.0	506.0	506.0	506.0
85°	*284.1*	284.1	284.1	284.1	284.1
87.5°	*89.8*	89.8	89.8	89.8	89.8
90°	*18.0*	28.1	46.9	30.6	18.0
92.5°	*24.7*	41.1	73.7	38.5	22.2
95°	*29.3*	48.1	103.4	51.9	33.1
97.5°	*36.8*	53.1	118.5	63.2	50.6
100°	*48.1*	62.0	183.8	77.0	67.0
102.5°	*80.7*	129.8	388.5	143.5	100.9
105°	*138.5*	271.7	691.1	299.3	182.5
107.5°	*239.0*	485.2	910.8	529.1	344.5
110°	*445.8*	644.2	955.6	727.1	551.2

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TEST NUMBER:
CATALOG NUMBER: EHBR1-54-UNV-W-L950-UPL24

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	*601.5*	691.9	915.5	802.4	717.0
115°	*632.9*	665.5	817.5	783.6	778.6
117.5°	*611.5*	607.8	694.4	704.5	752.2
120°	*566.4*	541.2	580.1	615.4	679.4
122.5°	*509.8*	479.7	497.3	523.6	587.7
125°	*458.0*	427.8	439.1	445.4	499.4
127.5°	*411.5*	391.3	397.7	390.1	424.0
130°	*380.9*	363.3	372.1	354.5	370.9
132.5°	*356.2*	344.9	354.9	333.6	338.7
135°	*338.2*	328.2	339.5	319.3	318.1
137.5°	*322.6*	313.9	325.1	310.0	306.3
140°	*309.2*	301.7	314.2	303.0	300.5
142.5°	*293.8*	288.7	303.8	296.3	293.8
145°	*283.3*	279.5	295.8	292.1	290.8
147.5°	*274.1*	271.6	286.6	285.3	285.3
150°	*265.3*	262.8	277.8	276.6	277.8
152.5°	*256.5*	254.0	267.8	266.6	267.8
155°	*251.0*	248.5	259.9	259.9	259.9
157.5°	*246.0*	244.7	253.6	253.6	253.6
160°	*243.1*	241.8	249.4	249.4	248.1
162.5°	*240.2*	238.9	247.7	246.4	246.4
165°	*237.7*	237.7	243.9	243.9	242.7
167.5°	*237.7*	236.4	242.7	242.7	241.4
170°	*236.4*	236.4	241.4	240.2	238.9
172.5°	*237.2*	237.2	242.2	241.0	239.7
175°	*236.8*	236.8	240.5	240.5	240.5
177.5°	*238.0*	238.0	240.5	240.5	239.3
180°	*240.2*	240.2	240.2	240.2	240.2

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TEST NUMBER: CATALOG
CATALOG NUMBER: EHBR1-54-UNV-W-L950-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	20.07	21.30	20.51	21.71	22.13	20.07	21.30	20.51	21.71	22.13
	3H	21.57	22.66	22.02	23.09	23.56	21.57	22.66	22.02	23.09	23.56
	4H	22.13	23.15	22.61	23.59	24.08	22.13	23.15	22.61	23.59	24.08
	6H	22.51	23.46	23.00	23.91	24.41	22.51	23.46	23.00	23.91	24.41
	8H	22.61	23.51	23.12	23.98	24.49	22.61	23.51	23.12	23.98	24.49
	12H	22.65	23.50	23.16	23.97	24.51	22.65	23.50	23.16	23.97	24.51
4H	2H	20.51	21.54	20.99	21.98	22.46	20.51	21.54	20.99	21.98	22.46
	3H	22.23	23.08	22.72	23.56	24.07	22.23	23.08	22.72	23.56	24.07
	4H	22.91	23.67	23.42	24.17	24.71	22.91	23.67	23.42	24.17	24.71
	6H	23.41	24.06	23.95	24.59	25.15	23.41	24.06	23.95	24.59	25.15
	8H	23.54	24.15	24.08	24.68	25.25	23.54	24.15	24.08	24.68	25.25
	12H	23.60	24.14	24.16	24.70	25.28	23.60	24.14	24.16	24.70	25.28
8H	4H	23.12	23.73	23.66	24.25	24.82	23.12	23.73	23.66	24.25	24.82
	6H	23.71	24.21	24.29	24.79	25.36	23.71	24.21	24.29	24.79	25.36
	8H	23.90	24.35	24.49	24.93	25.53	23.90	24.35	24.49	24.93	25.53
	12H	24.01	24.40	24.59	24.97	25.64	24.01	24.40	24.59	24.97	25.64
12H	4H	23.11	23.65	23.67	24.21	24.79	23.11	23.65	23.67	24.21	24.79
	6H	23.73	24.18	24.32	24.76	25.35	23.73	24.18	24.32	24.76	25.35
	8H	23.96	24.35	24.54	24.92	25.58	23.96	24.35	24.54	24.92	25.58

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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: SP1-2506-472-8

Test Date: 08/04/2025

Luminaire Tested: EHBR-60-L950-N

Data in this report applies to families of products including EHBR-60-L950-N

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

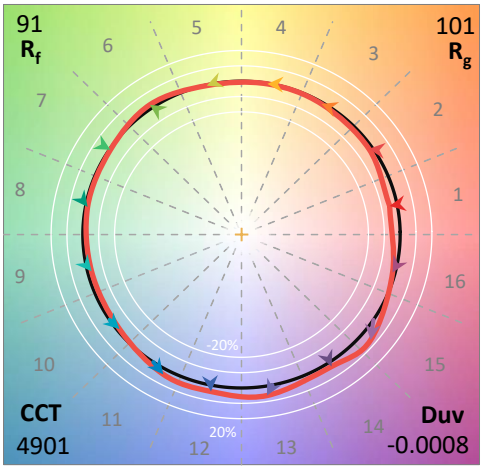
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2506-472-8
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-L950-N**
Description:	Elevate Round Highbay at, 60000 lumens, 5000K 90CRI LEDs with N lens

Spectral Parameters

CCT (K):	4901
CIE u':	0.2131
CIE v':	0.4853
Duv:	-0.0008
CIE x:	0.3477
CIE y:	0.3520
CIE z:	0.3003
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	574
Purity:	9.953987
Rf:	90.7
Rg:	100.5

CRI (Ra):	94.3				
R1:	95.8	R9:	72.3
R2:	96.5	R10:	89.1
R3:	94.4	R11:	94.9
R4:	95.3	R12:	68.4
R5:	94.1	R13:	96.4
R6:	92.5	R14:	96.4
R7:	95.5	R15:	93.9
R8:	90.1		



Test Conditions

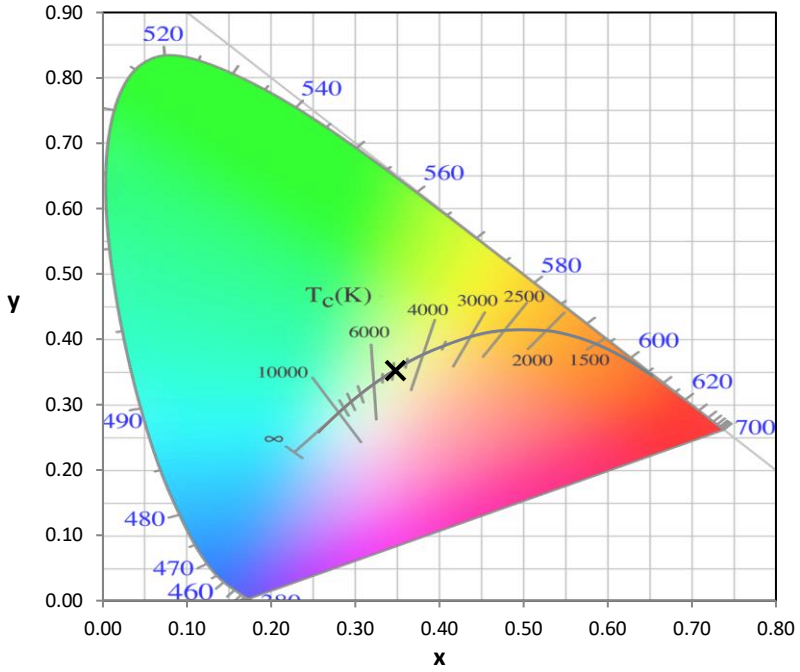
Stabilization Time:	35M
Operation Time:	1H 35M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-8

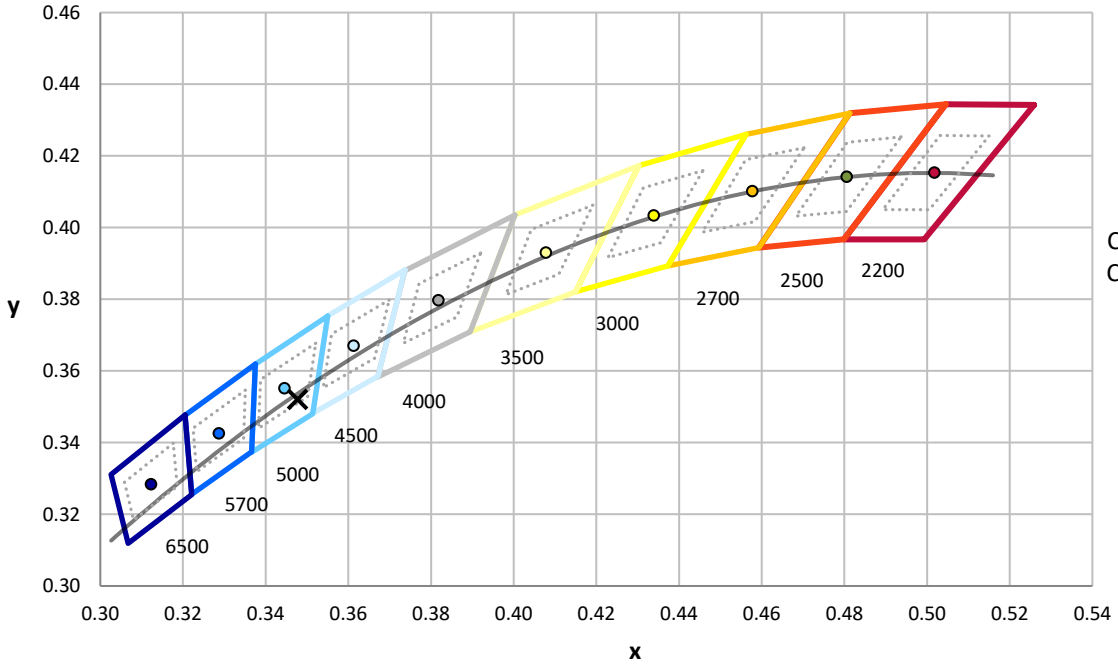
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2506-472-8

CIE 1931 Chromaticity Diagram



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

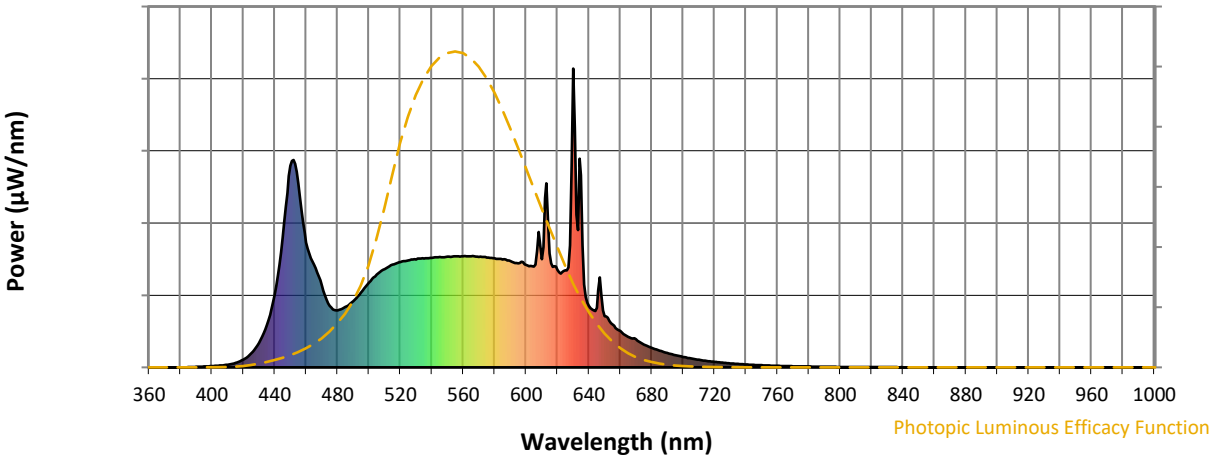


CCT = 4901K
CIE x = 0.3477
CIE y = 0.3520
Duv = -0.0008

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-8

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	221	NR	620	326	NR	750	7	NR	880	0	NR
365	0	NR	495	250	NR	625	325	NR	755	6	NR	885	0	NR
370	0	NR	500	284	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	311	NR	635	643	NR	765	4	NR	895	0	NR
380	0	NR	510	329	NR	640	206	NR	770	4	NR	900	0	NR
385	1	NR	515	344	NR	645	199	NR	775	3	NR	905	0	NR
390	2	NR	520	353	NR	650	172	NR	780	3	NR	910	0	NR
395	3	NR	525	357	NR	655	143	NR	785	2	NR	915	0	NR
400	5	NR	530	362	NR	660	122	NR	790	2	NR	920	0	NR
405	6	NR	535	365	NR	665	102	NR	795	2	NR	925	0	NR
410	9	NR	540	367	NR	670	94	NR	800	2	NR	930	0	NR
415	15	NR	545	369	NR	675	76	NR	805	1	NR	935	0	NR
420	26	NR	550	370	NR	680	65	NR	810	1	NR	940	0	NR
425	47	NR	555	372	NR	685	56	NR	815	1	NR	945	0	NR
430	81	NR	560	372	NR	690	48	NR	820	1	NR	950	0	NR
435	143	NR	565	371	NR	695	41	NR	825	1	NR	955	0	NR
440	243	NR	570	370	NR	700	35	NR	830	1	NR	960	0	NR
445	434	NR	575	367	NR	705	30	NR	835	1	NR	965	0	NR
450	675	NR	580	365	NR	710	25	NR	840	1	NR	970	0	NR
455	615	NR	585	361	NR	715	22	NR	845	0	NR	975	0	NR
460	418	NR	590	356	NR	720	19	NR	850	0	NR	980	0	NR
465	344	NR	595	348	NR	725	16	NR	855	0	NR	985	0	NR
470	272	NR	600	343	NR	730	13	NR	860	0	NR	990	0	NR
475	206	NR	605	337	NR	735	11	NR	865	0	NR	995	0	NR
480	190	NR	610	362	NR	740	10	NR	870	0	NR	1000	0	NR
485	202	NR	615	381	NR	745	8	NR	875	0	NR			

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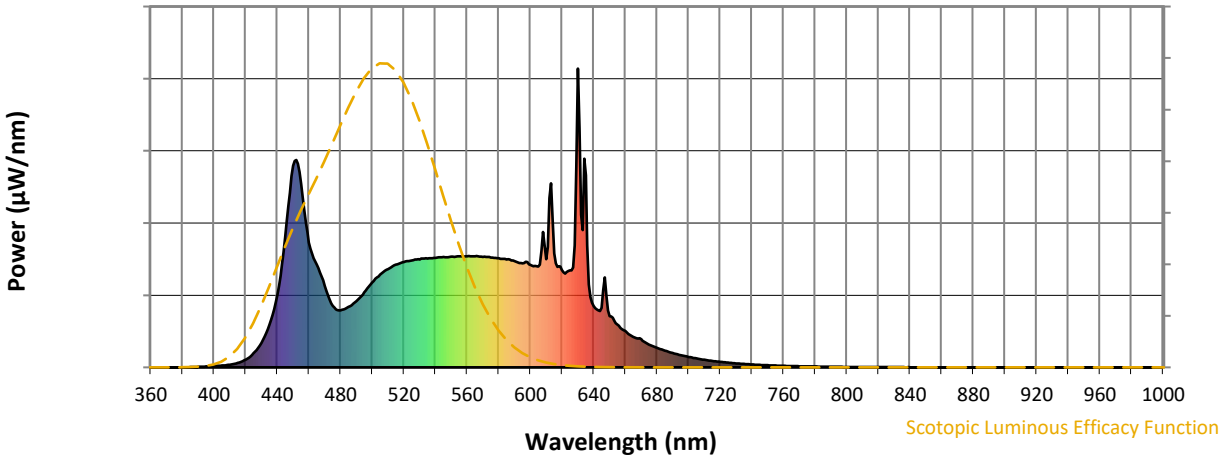
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 2.04**

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	221	NR	620	326	NR	750	7	NR	880	0	NR
365	0	NR	495	250	NR	625	325	NR	755	6	NR	885	0	NR
370	0	NR	500	284	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	311	NR	635	643	NR	765	4	NR	895	0	NR
380	0	NR	510	329	NR	640	206	NR	770	4	NR	900	0	NR
385	1	NR	515	344	NR	645	199	NR	775	3	NR	905	0	NR
390	2	NR	520	353	NR	650	172	NR	780	3	NR	910	0	NR
395	3	NR	525	357	NR	655	143	NR	785	2	NR	915	0	NR
400	5	NR	530	362	NR	660	122	NR	790	2	NR	920	0	NR
405	6	NR	535	365	NR	665	102	NR	795	2	NR	925	0	NR
410	9	NR	540	367	NR	670	94	NR	800	2	NR	930	0	NR
415	15	NR	545	369	NR	675	76	NR	805	1	NR	935	0	NR
420	26	NR	550	370	NR	680	65	NR	810	1	NR	940	0	NR
425	47	NR	555	372	NR	685	56	NR	815	1	NR	945	0	NR
430	81	NR	560	372	NR	690	48	NR	820	1	NR	950	0	NR
435	143	NR	565	371	NR	695	41	NR	825	1	NR	955	0	NR
440	243	NR	570	370	NR	700	35	NR	830	1	NR	960	0	NR
445	434	NR	575	367	NR	705	30	NR	835	1	NR	965	0	NR
450	675	NR	580	365	NR	710	25	NR	840	1	NR	970	0	NR
455	615	NR	585	361	NR	715	22	NR	845	0	NR	975	0	NR
460	418	NR	590	356	NR	720	19	NR	850	0	NR	980	0	NR
465	344	NR	595	348	NR	725	16	NR	855	0	NR	985	0	NR
470	272	NR	600	343	NR	730	13	NR	860	0	NR	990	0	NR
475	206	NR	605	337	NR	735	11	NR	865	0	NR	995	0	NR
480	190	NR	610	362	NR	740	10	NR	870	0	NR	1000	0	NR
485	202	NR	615	381	NR	745	8	NR	875	0	NR			

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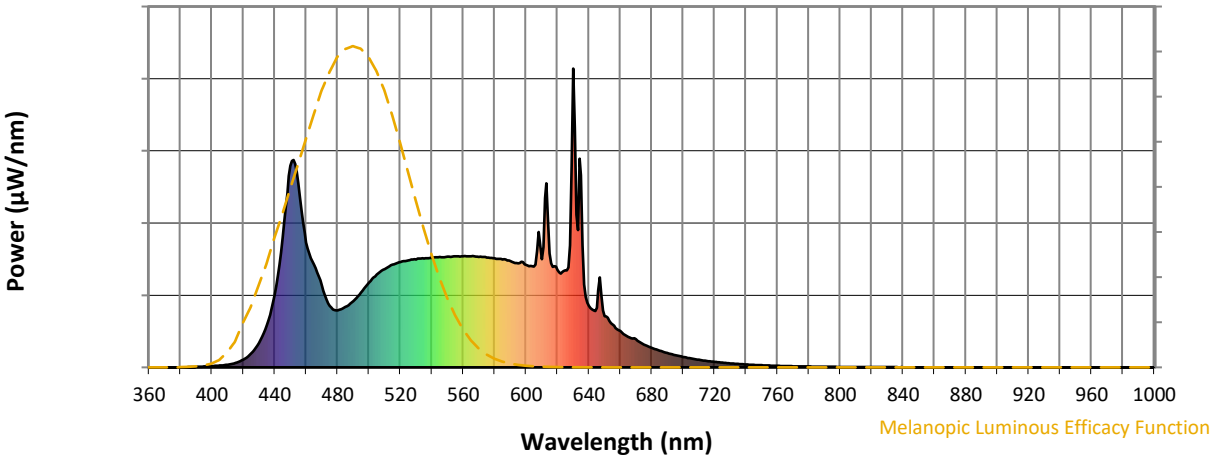
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 4.41**

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	221	NR	620	326	NR	750	7	NR	880	0	NR
365	0	NR	495	250	NR	625	325	NR	755	6	NR	885	0	NR
370	0	NR	500	284	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	311	NR	635	643	NR	765	4	NR	895	0	NR
380	0	NR	510	329	NR	640	206	NR	770	4	NR	900	0	NR
385	1	NR	515	344	NR	645	199	NR	775	3	NR	905	0	NR
390	2	NR	520	353	NR	650	172	NR	780	3	NR	910	0	NR
395	3	NR	525	357	NR	655	143	NR	785	2	NR	915	0	NR
400	5	NR	530	362	NR	660	122	NR	790	2	NR	920	0	NR
405	6	NR	535	365	NR	665	102	NR	795	2	NR	925	0	NR
410	9	NR	540	367	NR	670	94	NR	800	2	NR	930	0	NR
415	15	NR	545	369	NR	675	76	NR	805	1	NR	935	0	NR
420	26	NR	550	370	NR	680	65	NR	810	1	NR	940	0	NR
425	47	NR	555	372	NR	685	56	NR	815	1	NR	945	0	NR
430	81	NR	560	372	NR	690	48	NR	820	1	NR	950	0	NR
435	143	NR	565	371	NR	695	41	NR	825	1	NR	955	0	NR
440	243	NR	570	370	NR	700	35	NR	830	1	NR	960	0	NR
445	434	NR	575	367	NR	705	30	NR	835	1	NR	965	0	NR
450	675	NR	580	365	NR	710	25	NR	840	1	NR	970	0	NR
455	615	NR	585	361	NR	715	22	NR	845	0	NR	975	0	NR
460	418	NR	590	356	NR	720	19	NR	850	0	NR	980	0	NR
465	344	NR	595	348	NR	725	16	NR	855	0	NR	985	0	NR
470	272	NR	600	343	NR	730	13	NR	860	0	NR	990	0	NR
475	206	NR	605	337	NR	735	11	NR	865	0	NR	995	0	NR
480	190	NR	610	362	NR	740	10	NR	870	0	NR	1000	0	NR
485	202	NR	615	381	NR	745	8	NR	875	0	NR			

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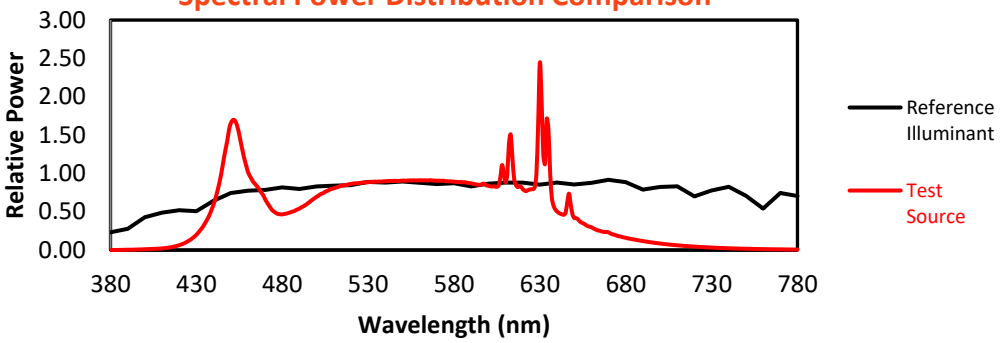
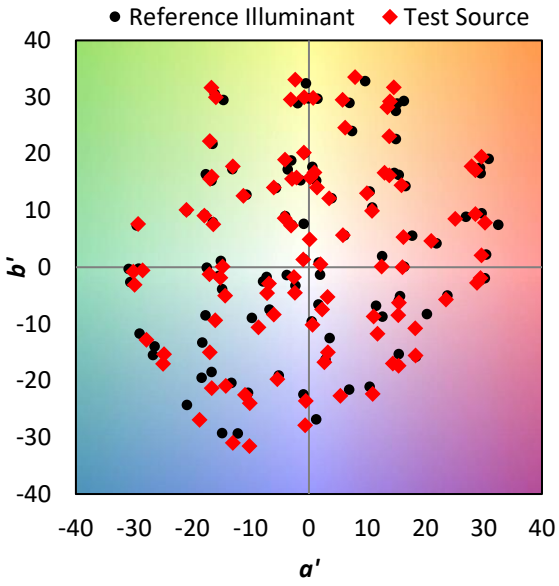
Summary

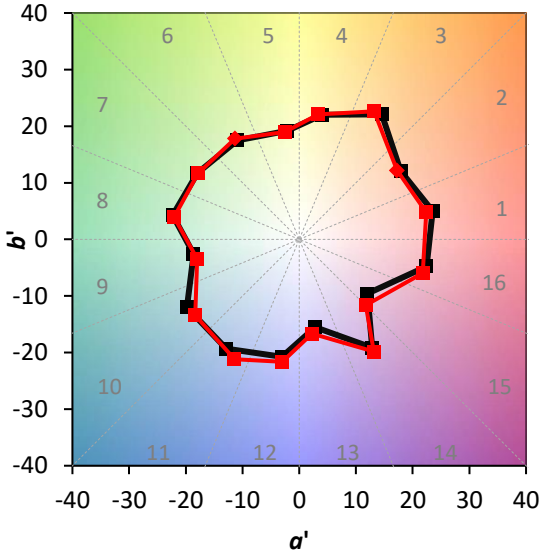
R_f = 90.7
R_g = 100.5
CIE R_a = 94.3
R_9 = 72.3

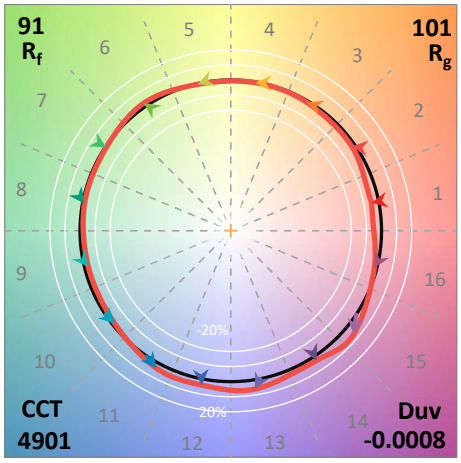
Spectral Power Distribution Comparison

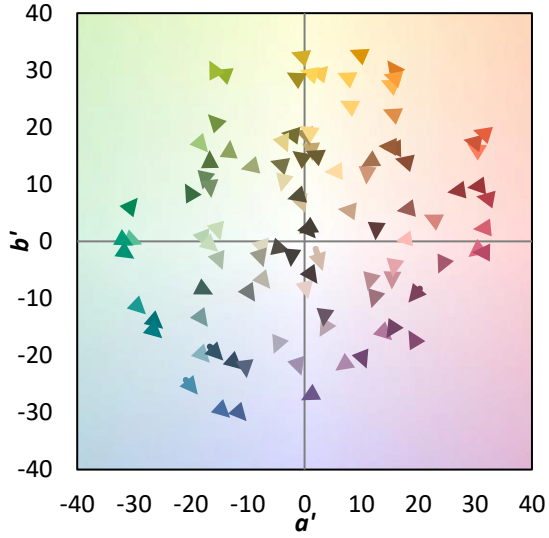


Color Vector Graphics









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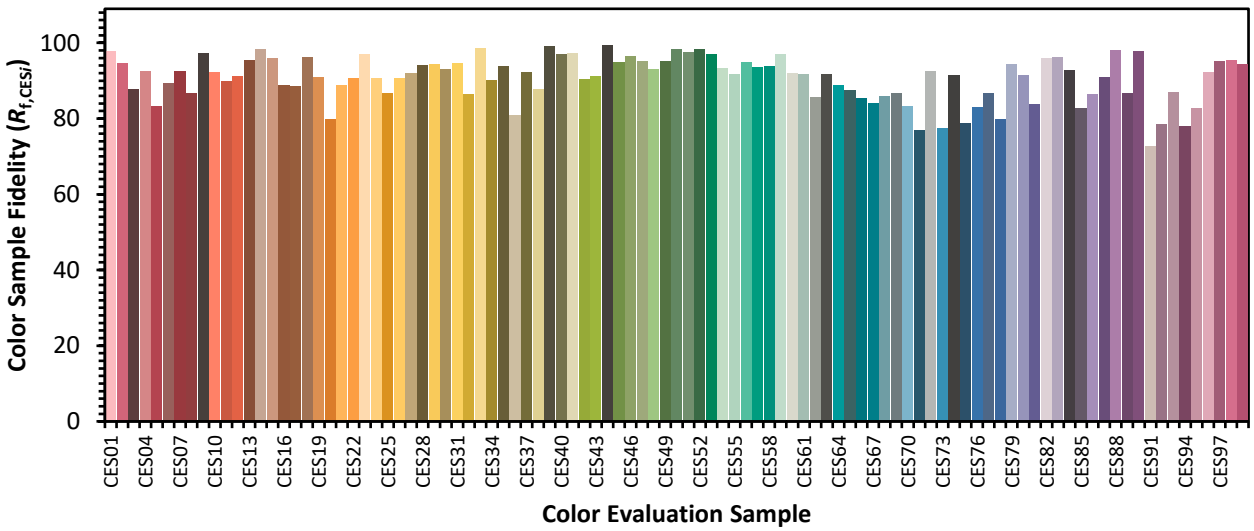
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 91	CES51 = 98	CES76 = 83
CES02 = 61	CES27 = 92	CES52 = 98	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 97	CES78 = 80
CES04 = 69	CES29 = 94	CES54 = 93	CES79 = 94
CES05 = 48	CES30 = 93	CES55 = 92	CES80 = 91
CES06 = 50	CES31 = 95	CES56 = 95	CES81 = 84
CES07 = 41	CES32 = 86	CES57 = 94	CES82 = 96
CES08 = 40	CES33 = 99	CES58 = 94	CES83 = 96
CES09 = 29	CES34 = 90	CES59 = 97	CES84 = 93
CES10 = 73	CES35 = 94	CES60 = 92	CES85 = 83
CES11 = 56	CES36 = 81	CES61 = 92	CES86 = 86
CES12 = 62	CES37 = 92	CES62 = 86	CES87 = 91
CES13 = 43	CES38 = 88	CES63 = 92	CES88 = 98
CES14 = 74	CES39 = 99	CES64 = 89	CES89 = 87
CES15 = 71	CES40 = 97	CES65 = 88	CES90 = 98
CES16 = 47	CES41 = 97	CES66 = 85	CES91 = 73
CES17 = 48	CES42 = 90	CES67 = 84	CES92 = 79
CES18 = 56	CES43 = 91	CES68 = 86	CES93 = 87
CES19 = 70	CES44 = 99	CES69 = 87	CES94 = 78
CES20 = 65	CES45 = 95	CES70 = 83	CES95 = 83
CES21 = 85	CES46 = 97	CES71 = 77	CES96 = 92
CES22 = 77	CES47 = 95	CES72 = 92	CES97 = 95
CES23 = 91	CES48 = 93	CES73 = 77	CES98 = 95
CES24 = 90	CES49 = 95	CES74 = 92	CES99 = 94
CES25 = 70	CES50 = 98	CES75 = 79	



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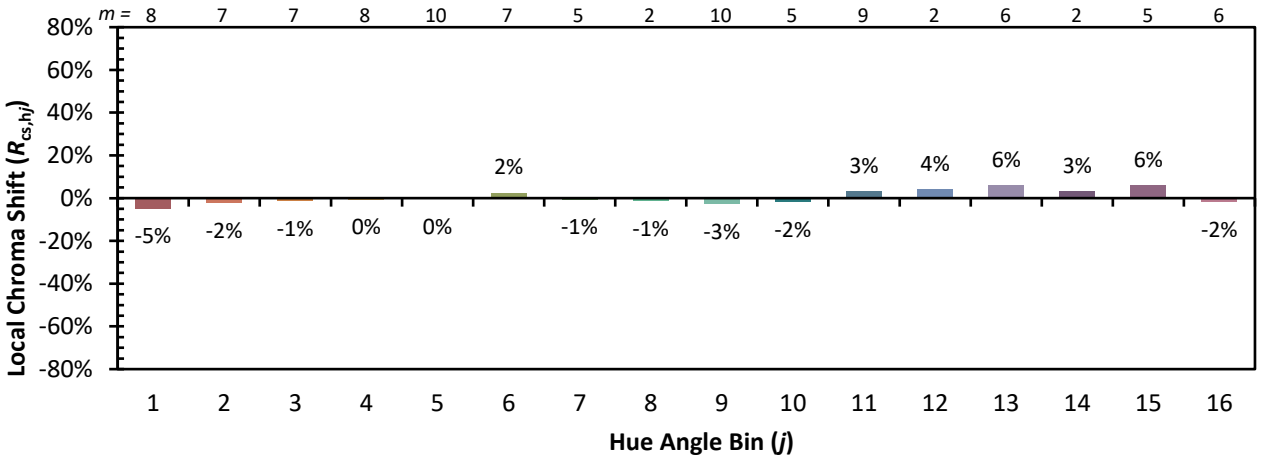
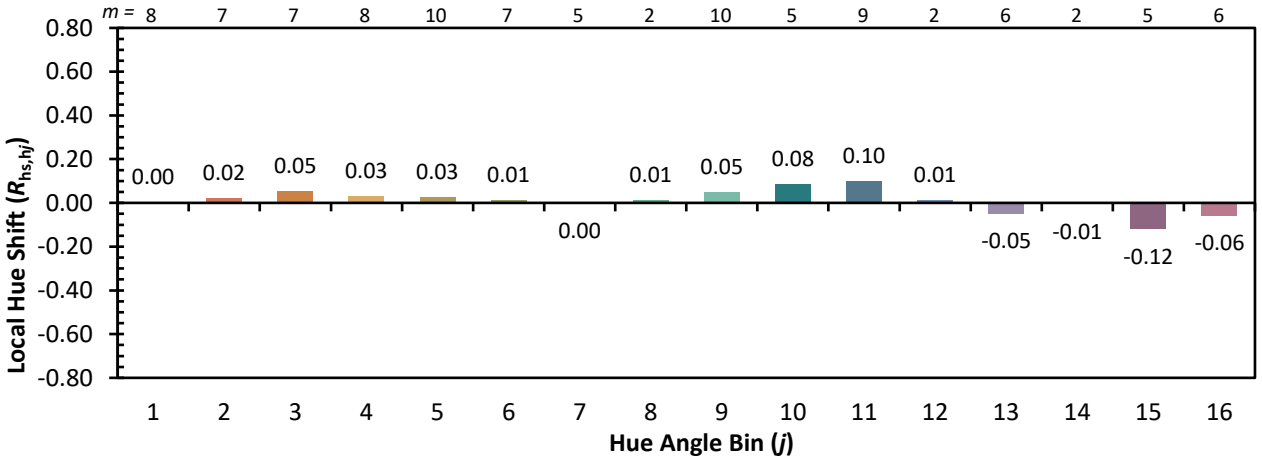
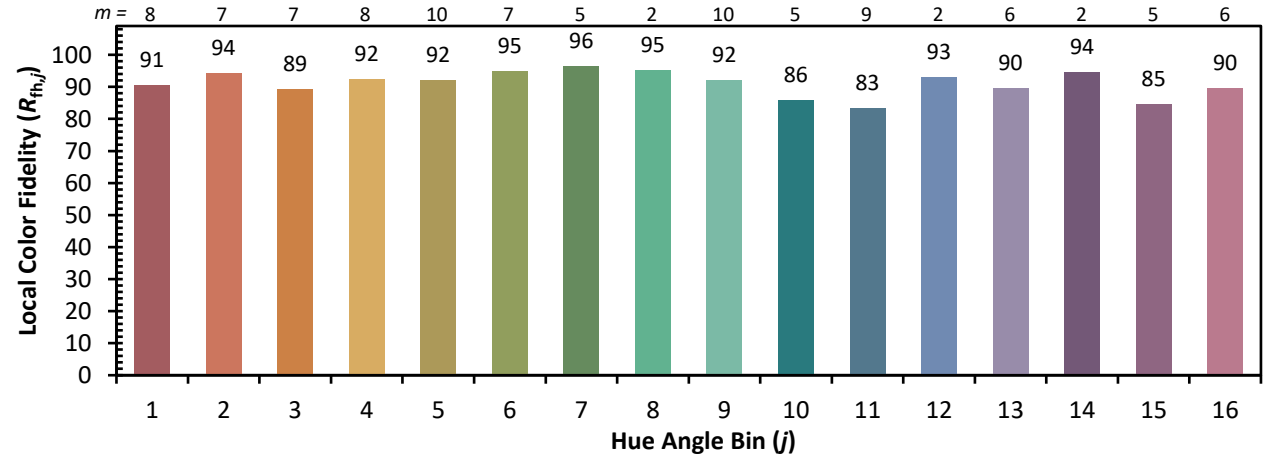
Color Rendition by Hue-Angle Bin







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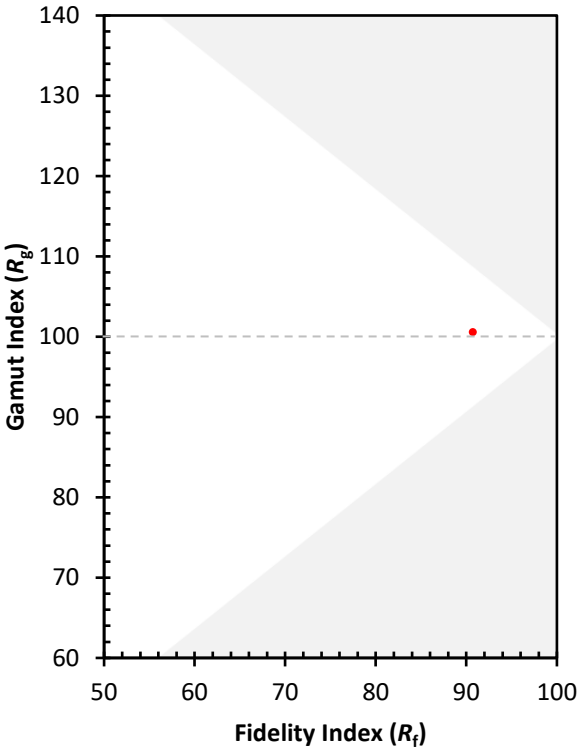
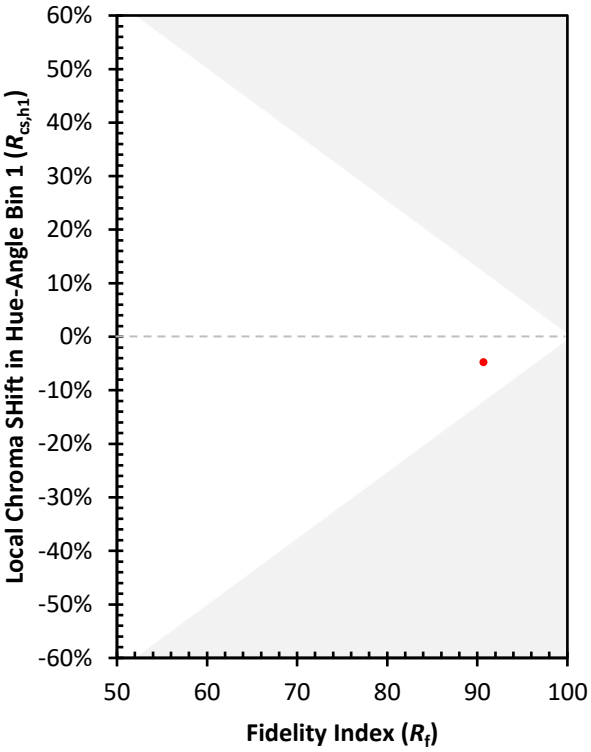
Measure Comparisons





(END OF REPORT)