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: EHBR1-18-UNV-N-L950-UPL15

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 P1431685 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	3/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-18-UNV-N-L950-UPL15
Description:	Elevate Round Highbay at, 19000 lumens, 5000K 90CRI LEDs with N lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	18625.7 lumens
Efficiency:	N/A
Efficacy:	179.1 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):	104
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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TEST NUMBER:
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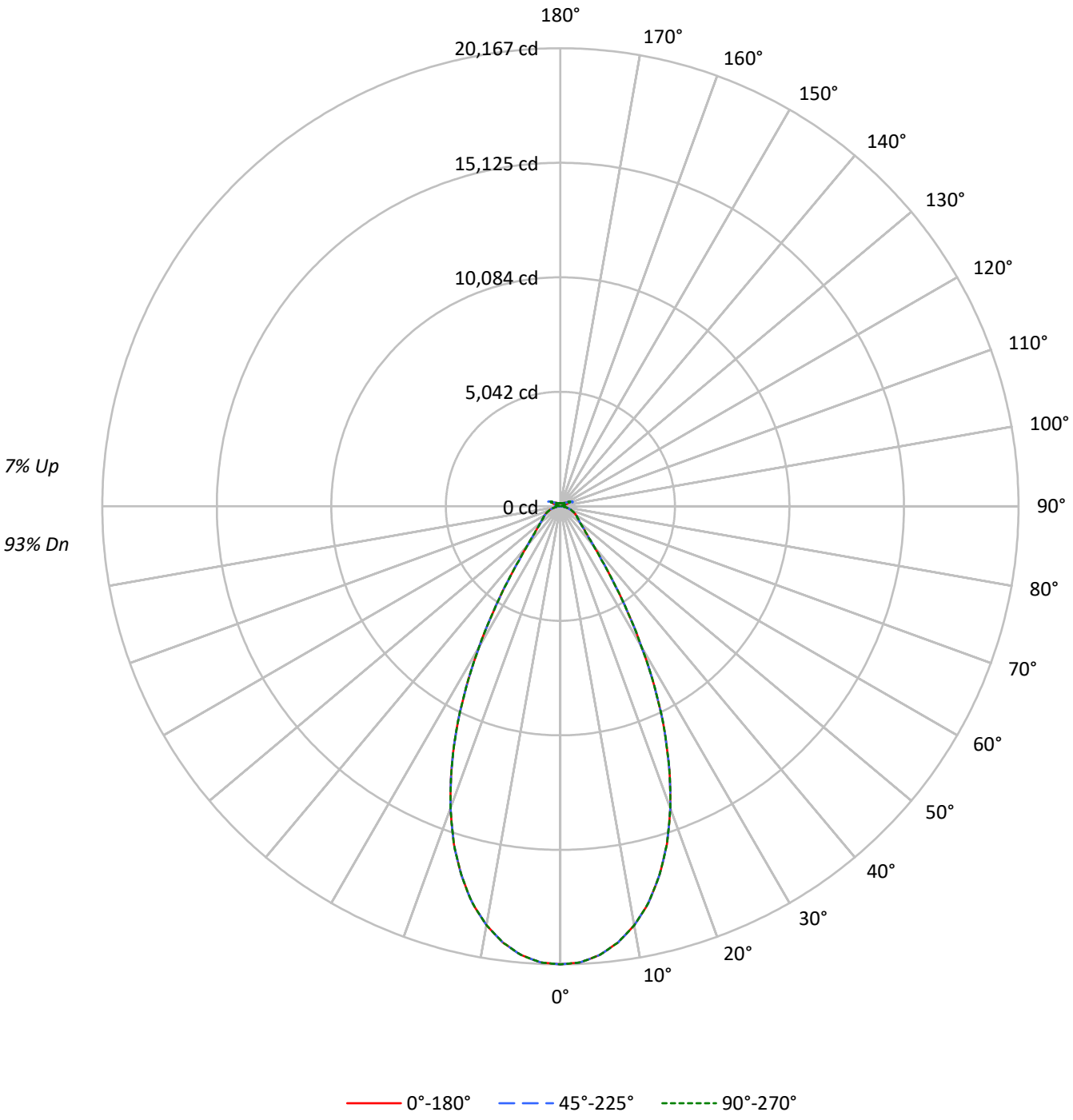
Luminous Intensity Polar Plot



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CATALOG NUMBER: EHBR1-18-UNV-N-L950-UPL15

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	85
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	69	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	54	49	58	53	49	57	52	48	55	51	48	46
10	67	57	51	47	66	56	50	47	55	50	46	54	49	46	52	48	45	44

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	94706	94706	94706
5°	92867	92867	92867
10°	88142	88142	88142
15°	80197	80197	80197
20°	68792	68792	68792
25°	54116	54116	54116
30°	37137	37137	37137
35°	22061	22061	22061
40°	13053	13053	13053
45°	9370	9370	9370
50°	7702	7702	7702
55°	6999	6999	6999
60°	6700	6700	6700
65°	6391	6391	6391
70°	5943	5943	5943
75°	5373	5373	5373
80°	4459	4459	4459
85°	2825	2825	2825

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 9370 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1857.7	10.0
10°-20°	4663.1	25.0
20°-30°	4875.8	26.2
30°-40°	2641.8	14.2
40°-50°	1215.4	6.5
50°-60°	856.5	4.6
60°-70°	659.1	3.5
70°-80°	399.6	2.1
80°-90°	115.0	0.6
90°-100°	38.3	0.2
100°-110°	239.7	1.3
110°-120°	428.6	2.3
120°-130°	251.5	1.4
130°-140°	154.3	0.8
140°-150°	107.0	0.6
150°-160°	69.5	0.4
160°-170°	39.6	0.2
170°-180°	13.1	0.1
0°-30°	11396.6	61.2
0°-40°	14038.4	75.4
0°-60°	16110.2	86.5
0°-90°	17283.9	92.8
90°-120°	706.7	3.8
90°-150°	1219.5	6.5
90°-180°	1342.0	7.2
0°-180°	18625.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20167	20167	20167	20167	20167	
5°	19829	19829	19829	19829	19829	1858
15°	16825	16825	16825	16825	16825	4663
25°	10807	10807	10807	10807	10807	4876
35°	4049	4049	4049	4049	4049	2642
45°	1516	1516	1516	1516	1516	1215
55°	946	946	946	946	946	856
65°	667	667	667	667	667	659
75°	378	378	378	378	378	400
85°	97	97	97	97	97	108
90°	10	17	28	18	10	10
95°	17	28	62	31	19	16
105°	84	165	422	182	111	112
115°	386	406	498	478	475	355
125°	278	260	266	270	303	253
135°	203	197	204	191	190	159
145°	167	164	174	172	171	106
155°	146	144	151	151	151	68
165°	137	137	141	141	140	39
175°	135	135	138	138	138	13
180°	137	137	137	137	137	

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TEST NUMBER:
CATALOG NUMBER: EHBR1-18-UNV-N-L950-UPL15

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*20166.9*	*20166.9*	*20166.9*	*20166.9*	*20166.9*
2.5°	*20095.4*	20095.4	20095.4	20095.4	20095.4
5°	*19828.6*	19828.6	19828.6	19828.6	19828.6
7.5°	*19373.1*	19373.1	19373.1	19373.1	19373.1
10°	*18726.9*	18726.9	18726.9	18726.9	18726.9
12.5°	*17891.9*	17891.9	17891.9	17891.9	17891.9
15°	*16825.0*	16825.0	16825.0	16825.0	16825.0
17.5°	*15587.3*	15587.3	15587.3	15587.3	15587.3
20°	*14138.7*	14138.7	14138.7	14138.7	14138.7
22.5°	*12525.9*	12525.9	12525.9	12525.9	12525.9
25°	*10806.9*	10806.9	10806.9	10806.9	10806.9
27.5°	*8984.4*	8984.4	8984.4	8984.4	8984.4
30°	*7143.3*	7143.3	7143.3	7143.3	7143.3
32.5°	*5482.2*	5482.2	5482.2	5482.2	5482.2
35°	*4049.0*	4049.0	4049.0	4049.0	4049.0
37.5°	*2972.9*	2972.9	2972.9	2972.9	2972.9
40°	*2262.4*	2262.4	2262.4	2262.4	2262.4
42.5°	*1814.1*	1814.1	1814.1	1814.1	1814.1
45°	*1516.0*	1516.0	1516.0	1516.0	1516.0
47.5°	*1301.2*	1301.2	1301.2	1301.2	1301.2
50°	*1147.8*	1147.8	1147.8	1147.8	1147.8
52.5°	*1035.9*	1035.9	1035.9	1035.9	1035.9
55°	*945.9*	945.9	945.9	945.9	945.9
57.5°	*873.0*	873.0	873.0	873.0	873.0
60°	*805.5*	805.5	805.5	805.5	805.5
62.5°	*738.1*	738.1	738.1	738.1	738.1
65°	*667.1*	667.1	667.1	667.1	667.1
67.5°	*594.7*	594.7	594.7	594.7	594.7
70°	*521.5*	521.5	521.5	521.5	521.5
72.5°	*450.3*	450.3	450.3	450.3	450.3
75°	*378.5*	378.5	378.5	378.5	378.5
77.5°	*308.2*	308.2	308.2	308.2	308.2
80°	*234.6*	234.6	234.6	234.6	234.6
82.5°	*164.3*	164.3	164.3	164.3	164.3
85°	*97.1*	97.1	97.1	97.1	97.1
87.5°	*34.7*	34.7	34.7	34.7	34.7
90°	*10.5*	16.7	28.2	18.2	10.5
92.5°	*14.6*	24.6	44.5	23.0	13.1
95°	*16.9*	28.4	62.3	30.8	19.2
97.5°	*21.5*	31.5	71.4	37.6	29.9
100°	*28.4*	36.9	111.4	46.1	40.0
102.5°	*48.4*	78.3	236.6	86.8	60.7
105°	*83.7*	165.1	421.6	182.0	110.6
107.5°	*145.1*	295.6	556.1	322.6	209.7
110°	*271.1*	392.5	582.9	443.1	335.6

TEST NUMBER:
CATALOG NUMBER: EHBR1-18-UNV-N-L950-UPL15

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	*366.3*	421.6	558.3	489.2	437.0
115°	*385.6*	405.5	498.5	477.7	474.6
117.5°	*372.5*	370.2	423.2	429.3	458.5
120°	*344.8*	329.5	353.2	374.8	413.9
122.5°	*310.2*	291.8	302.6	318.7	357.9
125°	*278.0*	259.6	266.5	270.4	303.4
127.5°	*249.6*	237.3	241.2	236.6	257.3
130°	*230.4*	219.6	225.0	214.3	224.3
132.5°	*214.3*	207.4	213.5	200.4	203.5
135°	*202.7*	196.6	203.5	191.2	190.5
137.5°	*192.8*	187.4	194.3	185.1	182.8
140°	*183.6*	178.9	186.7	179.7	178.2
142.5°	*173.6*	170.5	179.7	175.1	173.6
145°	*166.7*	164.4	174.3	172.1	171.2
147.5°	*160.6*	159.0	168.2	167.4	167.4
150°	*155.2*	153.6	162.8	162.0	162.8
152.5°	*149.8*	148.2	156.6	155.9	156.6
155°	*146.0*	144.4	151.3	151.3	151.3
157.5°	*142.8*	142.1	147.5	147.5	147.5
160°	*140.6*	139.7	144.4	144.4	143.6
162.5°	*138.3*	137.5	142.8	142.1	142.1
165°	*136.7*	136.7	140.6	140.6	139.7
167.5°	*136.7*	135.9	139.7	139.7	139.0
170°	*135.9*	135.9	139.0	138.3	137.5
172.5°	*135.9*	135.9	139.0	138.3	137.5
175°	*135.2*	135.2	137.5	137.5	137.5
177.5°	*135.9*	135.9	137.5	137.5	136.7
180°	*136.7*	136.7	136.7	136.7	136.7

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Scaled Data Report

TEST NUMBER: CATALOG
CATALOG NUMBER: EHBR1-18-UNV-N-L950-UPL15

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	14.65	15.71	15.15	16.18	16.67	14.65	15.71	15.15	16.18	16.67
	3H	16.43	17.37	16.94	17.85	18.40	16.43	17.37	16.94	17.85	18.40
	4H	17.09	17.97	17.62	18.46	19.02	17.09	17.97	17.62	18.46	19.02
	6H	17.55	18.36	18.09	18.87	19.44	17.55	18.36	18.09	18.87	19.44
	8H	17.67	18.44	18.23	18.97	19.54	17.67	18.44	18.23	18.97	19.54
	12H	17.73	18.45	18.28	18.98	19.58	17.73	18.45	18.28	18.98	19.58
4H	2H	15.19	16.07	15.73	16.57	17.13	15.19	16.07	15.73	16.57	17.13
	3H	17.16	17.89	17.71	18.43	19.01	17.16	17.89	17.71	18.43	19.01
	4H	17.94	18.59	18.50	19.14	19.76	17.94	18.59	18.50	19.14	19.76
	6H	18.51	19.07	19.09	19.65	20.28	18.51	19.07	19.09	19.65	20.28
	8H	18.67	19.19	19.26	19.77	20.40	18.67	19.19	19.26	19.77	20.40
	12H	18.75	19.21	19.35	19.81	20.46	18.75	19.21	19.35	19.81	20.46
8H	4H	18.17	18.69	18.76	19.27	19.90	18.17	18.69	18.76	19.27	19.90
	6H	18.85	19.27	19.47	19.90	20.54	18.85	19.27	19.47	19.90	20.54
	8H	19.07	19.45	19.71	20.08	20.74	19.07	19.45	19.71	20.08	20.74
	12H	19.21	19.54	19.84	20.15	20.89	19.21	19.54	19.84	20.15	20.89
12H	4H	18.16	18.62	18.77	19.23	19.87	18.16	18.62	18.77	19.23	19.87
	6H	18.87	19.25	19.51	19.89	20.54	18.87	19.25	19.51	19.89	20.54
	8H	19.14	19.46	19.77	20.08	20.81	19.14	19.46	19.77	20.08	20.81

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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

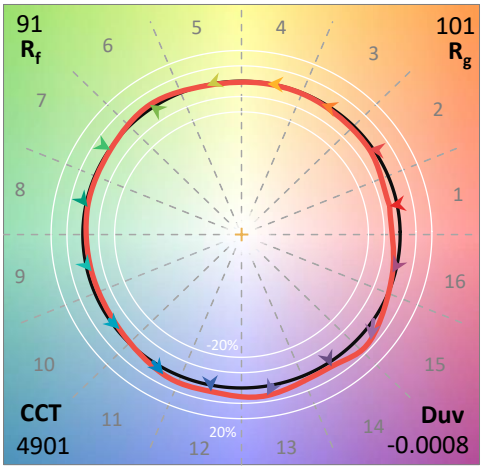
Test Information

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

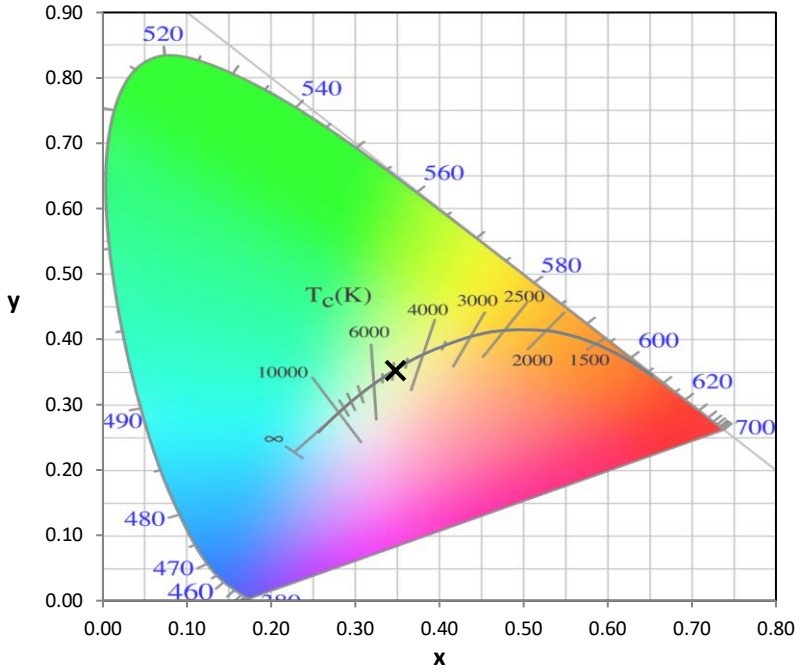
Stabilization Time:	35M
Operation Time:	1H 35M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-8

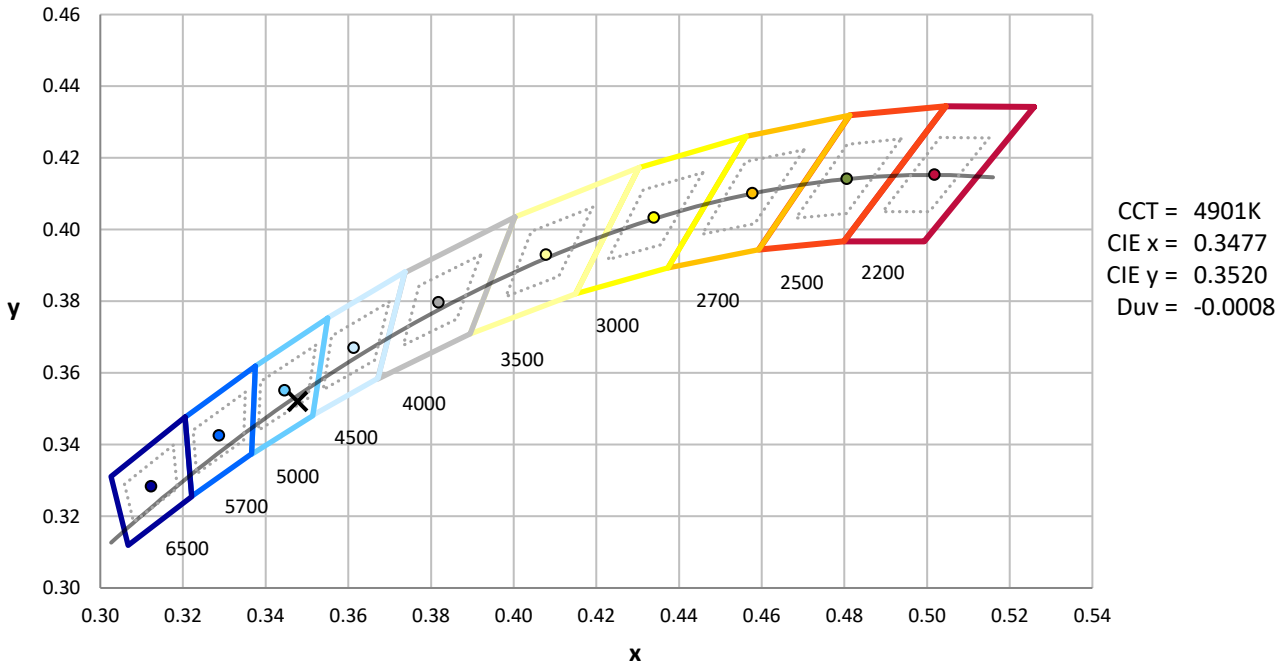
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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



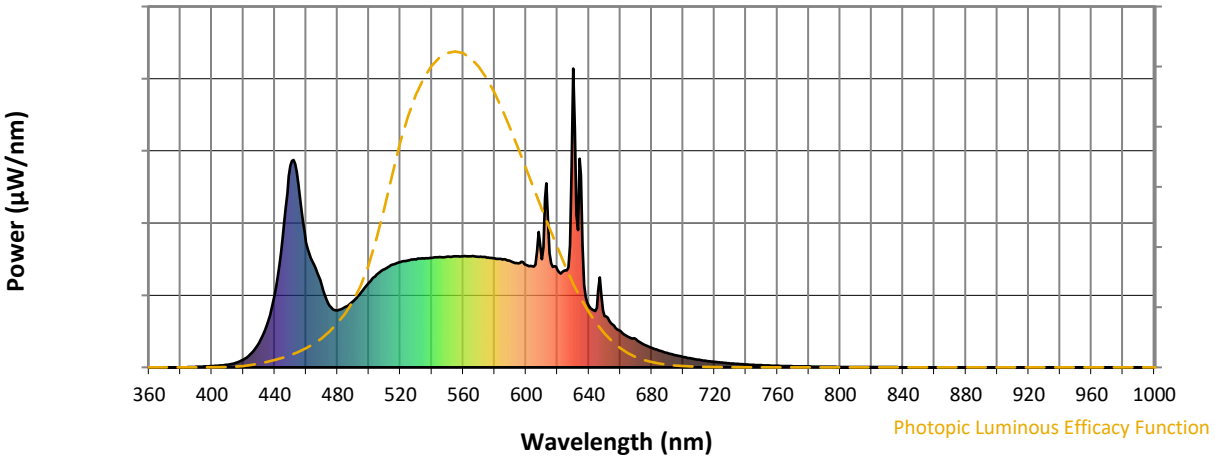
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



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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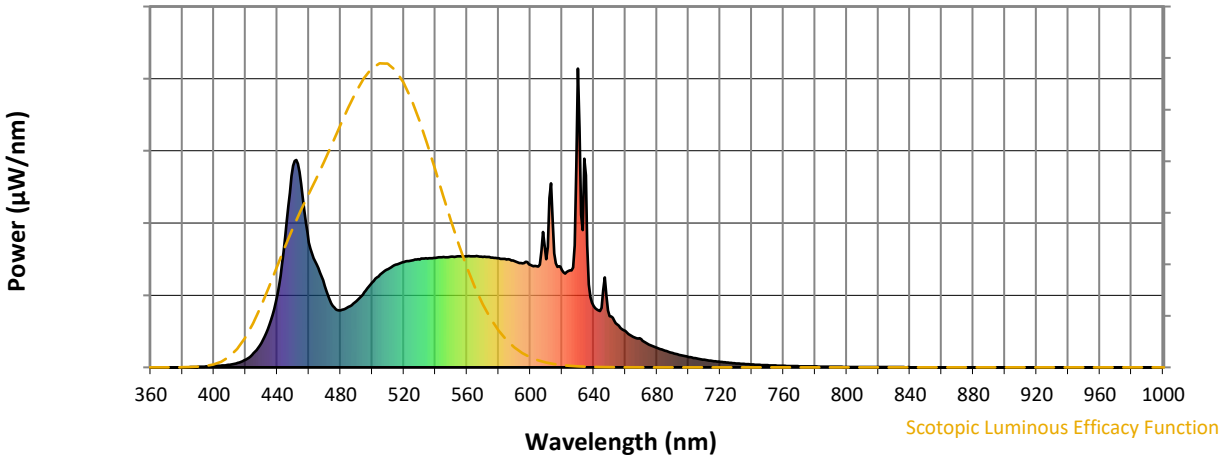
Scotopic Flux vs. Wavelength



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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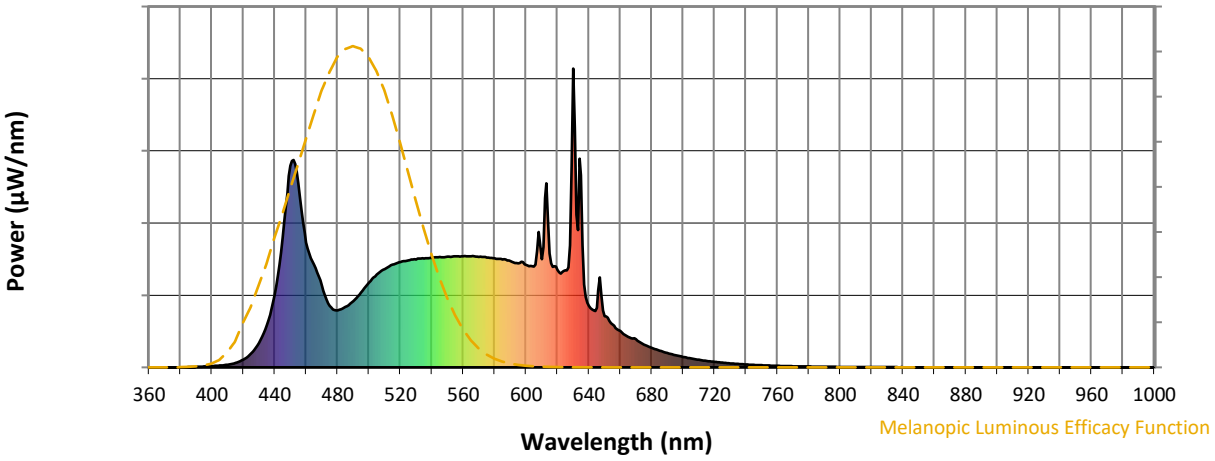
Melanopic Flux vs. Wavelength



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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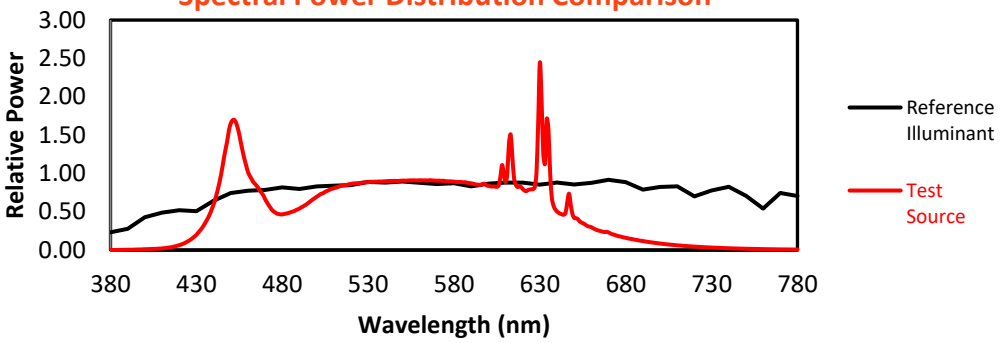
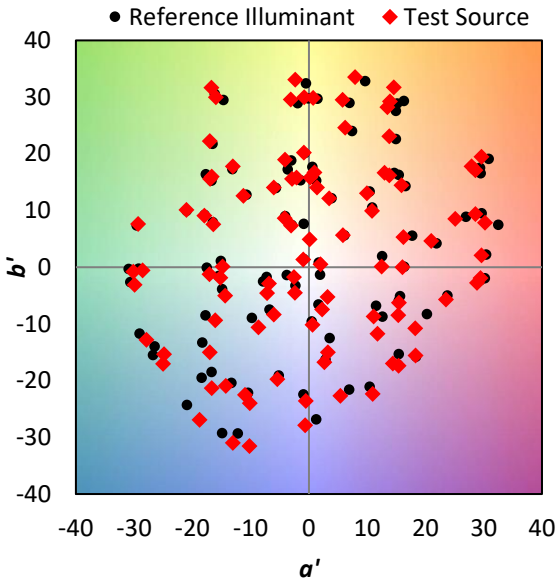
Summary

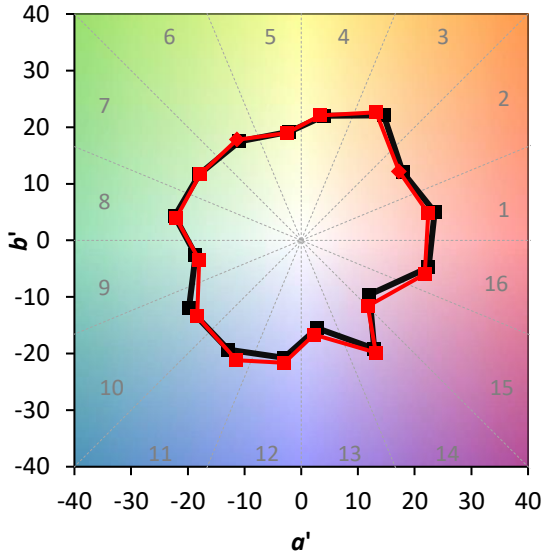
R_f = 90.7
R_g = 100.5
CIE R_a = 94.3
R_9 = 72.3

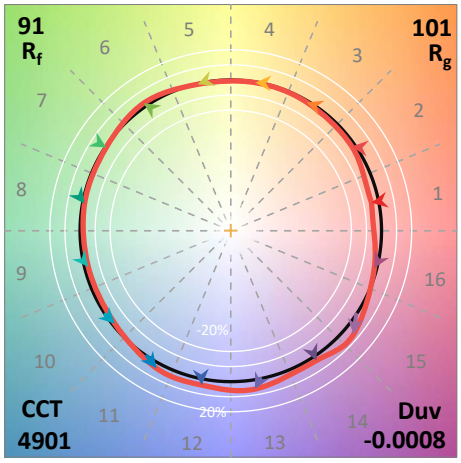
Spectral Power Distribution Comparison

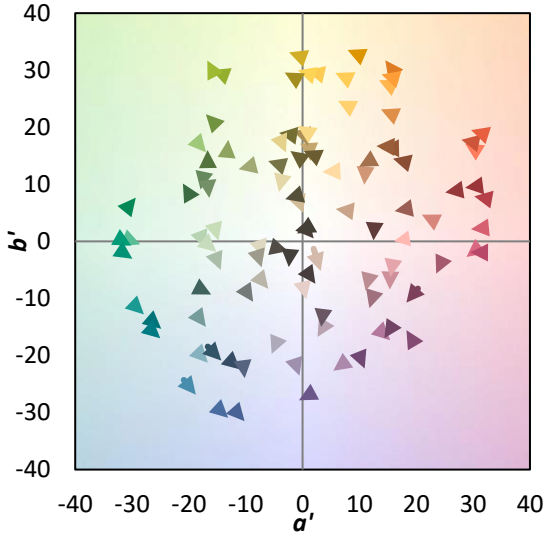


Color Vector Graphics









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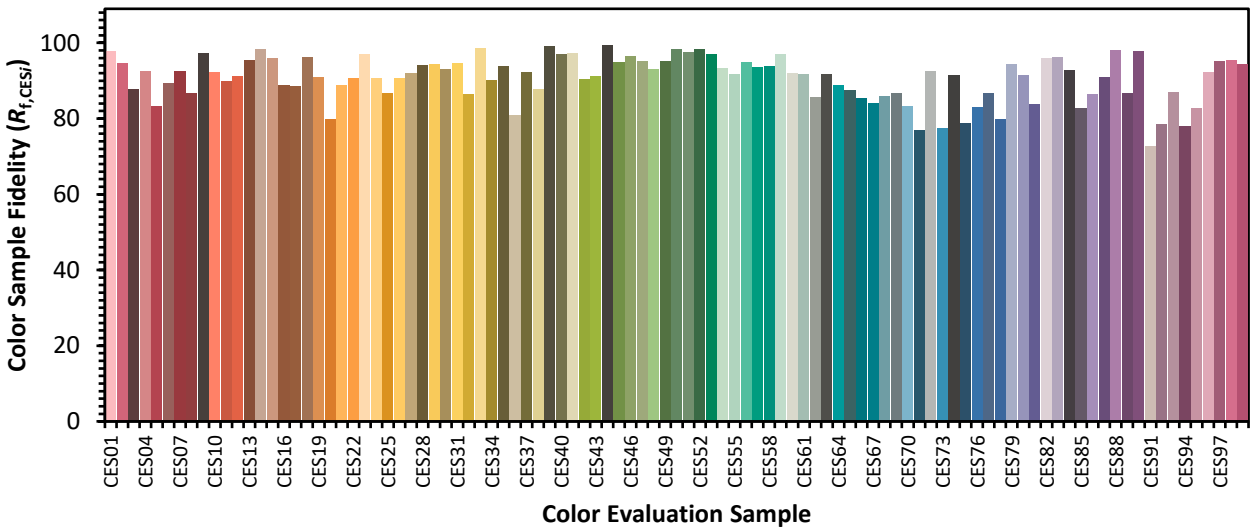
Individual Sample Fidelity Index ($R_{f,i}$)

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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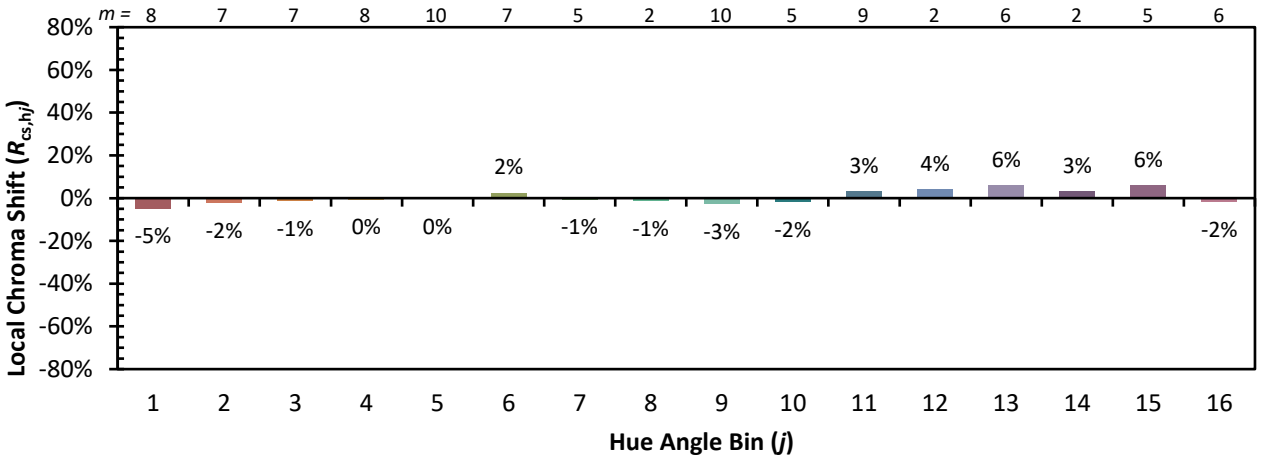
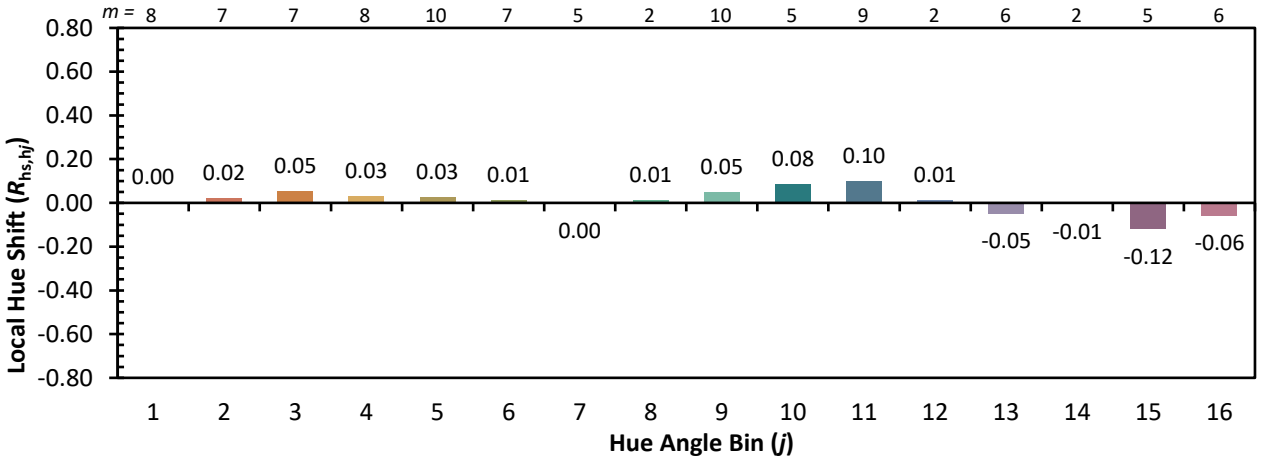
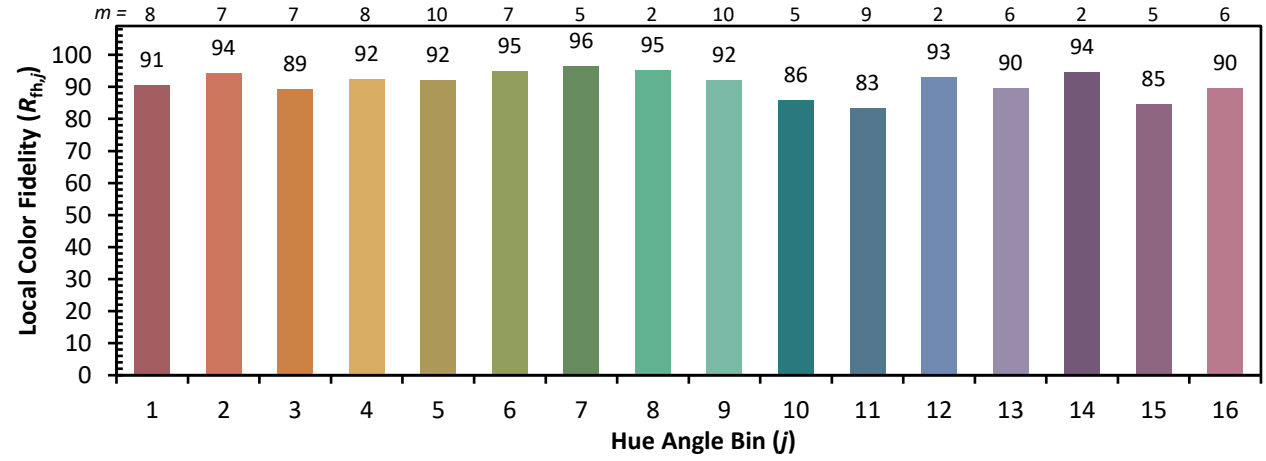
Color Rendition by Hue-Angle Bin







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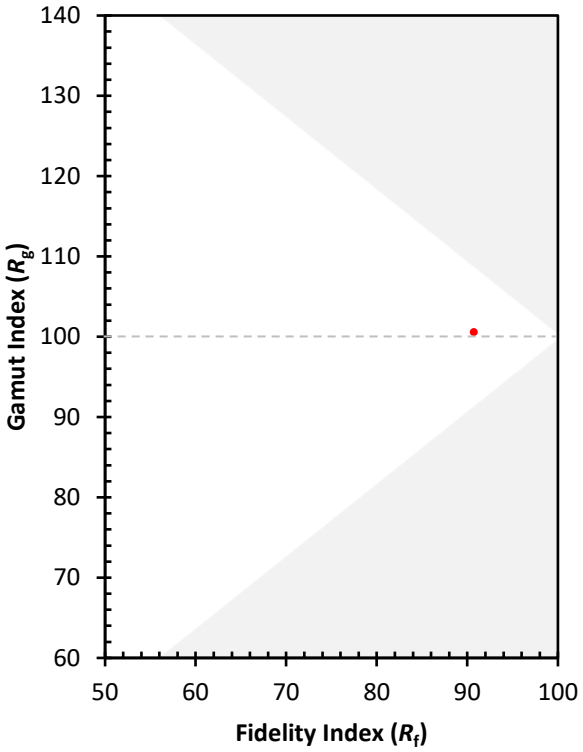
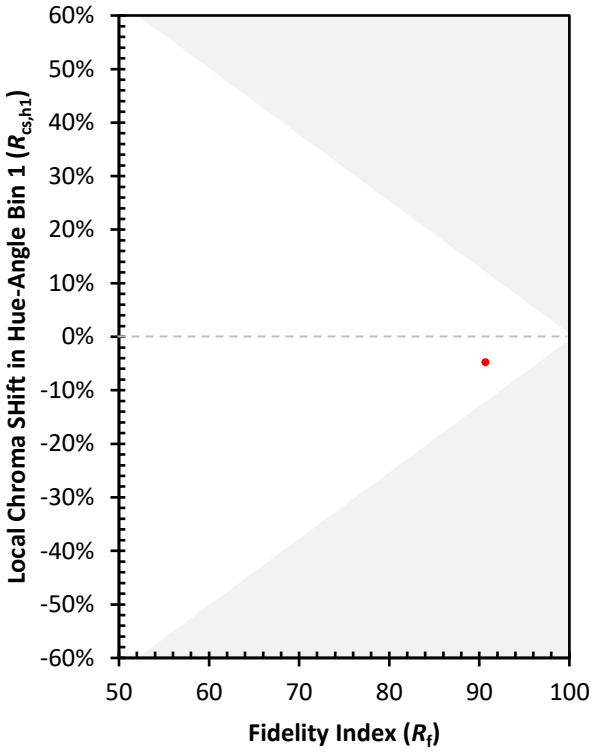
Measure Comparisons





(END OF REPORT)