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: P1432474

Luminaire Tested: EHBR1-48-UNV-N-L830

Issue Date: 3/13/2026

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:	P1432474
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2601-654-3)
Test Lab:	INNOVATION CENTER
Issue Date:	3/13/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-48-UNV-N-L830
Description:	Elevate Round Highbay at, 48000 lumens, 3000K 80CRI LEDs with N lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	45068.8 lumens
Efficiency:	N/A
Efficacy:	174.3 lumens/watt
Spacing Criteria (0/90/45):	0.82 / 0.82 / 0.8
Luminous Opening:	Circular (Dia: 1.71' x H: 0')
CIE Type:	Direct

Input Watts (W):	258.6
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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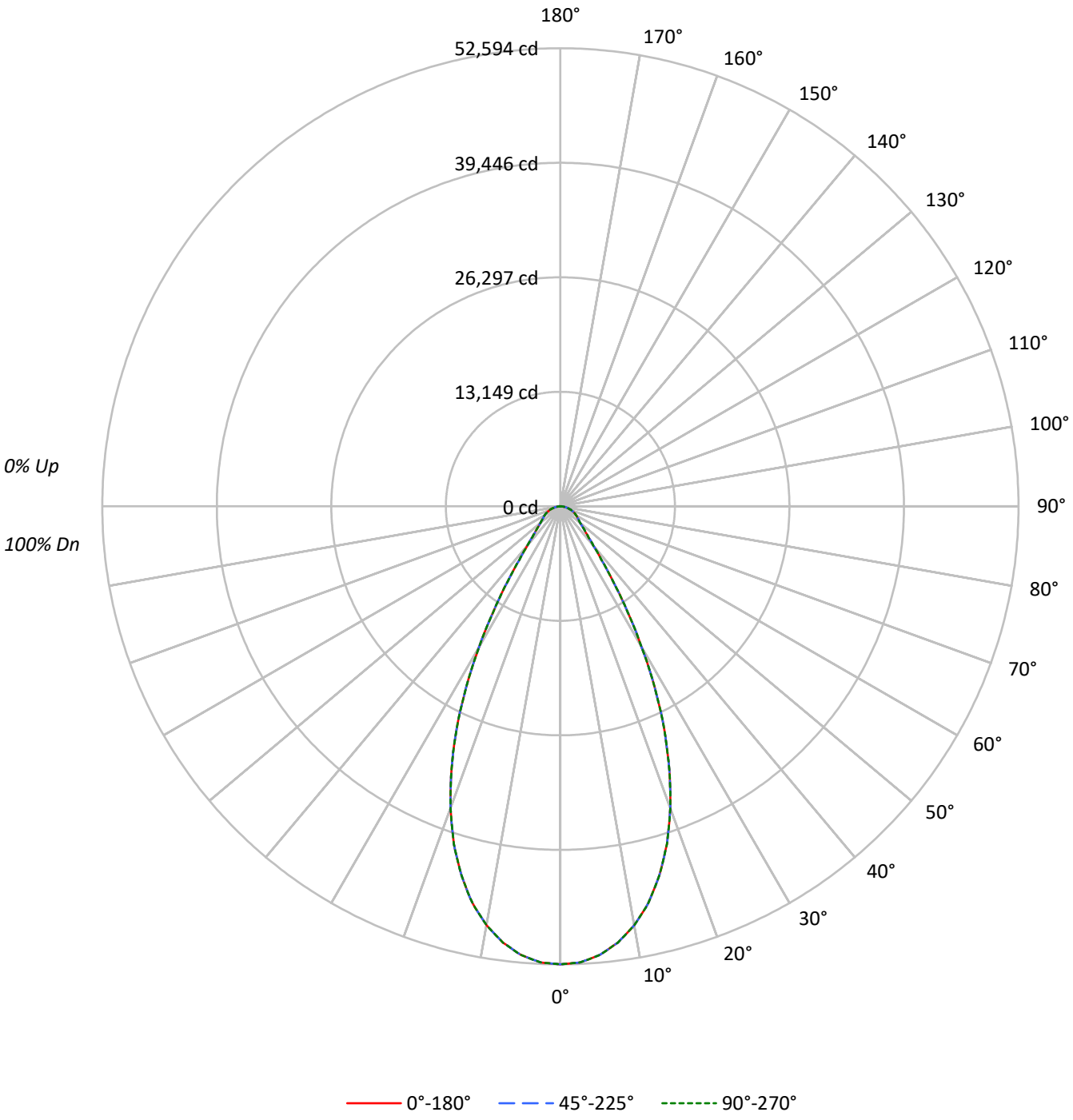
TEST NUMBER: P1432474
CATALOG NUMBER: EHBR1-48-UNV-N-L830

Luminous Intensity Polar Plot



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TEST NUMBER: P1432474
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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83
3	100	92	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76
4	94	86	80	75	92	85	79	74	82	77	74	80	76	73	78	75	72	70
5	89	80	74	69	87	79	73	68	77	72	68	75	71	67	74	70	67	65
6	85	75	68	64	83	74	68	63	72	67	63	71	66	63	70	65	62	61
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57
8	76	66	60	55	75	66	59	55	64	59	55	63	58	55	62	58	55	53
9	73	62	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	246985	246985	246985
5°	243769	243769	243769
10°	232888	232888	232888
15°	213326	213326	213326
20°	184270	184270	184270
25°	146034	146034	146034
30°	101018	101018	101018
35°	60535	60535	60535
40°	36169	36169	36169
45°	26258	26258	26258
50°	21870	21870	21870
55°	20198	20198	20198
60°	19731	19731	19731
65°	19331	19331	19331
70°	18675	18675	18675
75°	17910	17910	17910
80°	16548	16548	16548
85°	13637	13637	13637

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 26258 cd/sqm

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Scaled Data Report

TEST NUMBER: P1432474
CATALOG NUMBER: EHBR1-48-UNV-N-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4844.7	10.7
10°-20°	12161.0	27.0
20°-30°	12715.6	28.2
30°-40°	6889.7	15.3
40°-50°	3169.6	7.0
50°-60°	2233.7	5.0
60°-70°	1719.0	3.8
70°-80°	1042.1	2.3
80°-90°	293.4	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	29721.4	65.9
0°-40°	36611.0	81.2
0°-60°	42014.3	93.2
0°-90°	45068.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	45068.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	52594	52594	52594	52594	52594	
5°	51711	51711	51711	51711	51711	4845
15°	43878	43878	43878	43878	43878	12161
25°	28183	28183	28183	28183	28183	12716
35°	10559	10559	10559	10559	10559	6890
45°	3954	3954	3954	3954	3954	3170
55°	2467	2467	2467	2467	2467	2234
65°	1740	1740	1740	1740	1740	1719
75°	987	987	987	987	987	1042
85°	253	253	253	253	253	293
90°	2	2	2	2	2	

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TEST NUMBER: P1432474
CATALOG NUMBER: EHBR1-48-UNV-N-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	52593.7	52593.7	52593.7	52593.7	52593.7
2.5°	52407.2	52407.2	52407.2	52407.2	52407.2
5°	51711.4	51711.4	51711.4	51711.4	51711.4
7.5°	50523.6	50523.6	50523.6	50523.6	50523.6
10°	48838.4	48838.4	48838.4	48838.4	48838.4
12.5°	46660.6	46660.6	46660.6	46660.6	46660.6
15°	43878.3	43878.3	43878.3	43878.3	43878.3
17.5°	40650.3	40650.3	40650.3	40650.3	40650.3
20°	36872.6	36872.6	36872.6	36872.6	36872.6
22.5°	32666.6	32666.6	32666.6	32666.6	32666.6
25°	28183.4	28183.4	28183.4	28183.4	28183.4
27.5°	23430.7	23430.7	23430.7	23430.7	23430.7
30°	18629.2	18629.2	18629.2	18629.2	18629.2
32.5°	14297.3	14297.3	14297.3	14297.3	14297.3
35°	10559.3	10559.3	10559.3	10559.3	10559.3
37.5°	7753.0	7753.0	7753.0	7753.0	7753.0
40°	5900.1	5900.1	5900.1	5900.1	5900.1
42.5°	4731.0	4731.0	4731.0	4731.0	4731.0
45°	3953.7	3953.7	3953.7	3953.7	3953.7
47.5°	3393.4	3393.4	3393.4	3393.4	3393.4
50°	2993.5	2993.5	2993.5	2993.5	2993.5
52.5°	2701.5	2701.5	2701.5	2701.5	2701.5
55°	2467.0	2467.0	2467.0	2467.0	2467.0
57.5°	2276.8	2276.8	2276.8	2276.8	2276.8
60°	2100.8	2100.8	2100.8	2100.8	2100.8
62.5°	1924.7	1924.7	1924.7	1924.7	1924.7
65°	1739.7	1739.7	1739.7	1739.7	1739.7
67.5°	1551.1	1551.1	1551.1	1551.1	1551.1
70°	1360.1	1360.1	1360.1	1360.1	1360.1
72.5°	1174.4	1174.4	1174.4	1174.4	1174.4
75°	987.1	987.1	987.1	987.1	987.1
77.5°	803.6	803.6	803.6	803.6	803.6
80°	611.9	611.9	611.9	611.9	611.9
82.5°	428.4	428.4	428.4	428.4	428.4
85°	253.1	253.1	253.1	253.1	253.1
87.5°	90.6	90.6	90.6	90.6	90.6
90°	1.5	1.5	1.5	1.5	1.5

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TEST NUMBER: P1432474
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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	19.05	20.22	19.42	20.53	20.84	19.05	20.22	19.42	20.53	20.84
	3H	20.93	21.96	21.31	22.30	22.66	20.93	21.96	21.31	22.30	22.66
	4H	21.66	22.62	22.06	22.97	23.36	21.66	22.62	22.06	22.97	23.36
	6H	22.20	23.09	22.62	23.46	23.85	22.20	23.09	22.62	23.46	23.85
	8H	22.37	23.21	22.81	23.60	24.01	22.37	23.21	22.81	23.60	24.01
	12H	22.47	23.27	22.90	23.65	24.08	22.47	23.27	22.90	23.65	24.08
4H	2H	19.65	20.61	20.05	20.96	21.35	19.65	20.61	20.05	20.96	21.35
	3H	21.73	22.53	22.15	22.93	23.34	21.73	22.53	22.15	22.93	23.34
	4H	22.58	23.30	23.02	23.72	24.16	22.58	23.30	23.02	23.72	24.16
	6H	23.26	23.87	23.72	24.32	24.79	23.26	23.87	23.72	24.32	24.79
	8H	23.47	24.04	23.94	24.49	24.96	23.47	24.04	23.94	24.49	24.96
	12H	23.60	24.10	24.09	24.59	25.06	23.60	24.10	24.09	24.59	25.06
8H	4H	22.87	23.44	23.34	23.89	24.36	22.87	23.44	23.34	23.89	24.36
	6H	23.68	24.14	24.18	24.64	25.12	23.68	24.14	24.18	24.64	25.12
	8H	23.97	24.38	24.49	24.90	25.39	23.97	24.38	24.49	24.90	25.39
	12H	24.18	24.54	24.70	25.04	25.61	24.18	24.54	24.70	25.04	25.61
12H	4H	22.88	23.38	23.37	23.87	24.34	22.88	23.38	23.37	23.87	24.34
	6H	23.72	24.13	24.25	24.65	25.15	23.72	24.13	24.25	24.65	25.15
	8H	24.07	24.43	24.59	24.93	25.50	24.07	24.43	24.59	24.93	25.50

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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

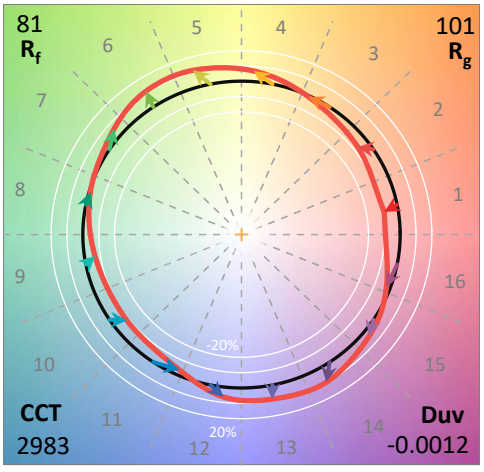
Test Information

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
R2:	87.5
R3:	88.9
R4:	83.8
R5:	81.9
R6:	83.1
R7:	87.1
R8:	70.9
R9:	29.4
R10:	68.6
R11:	82.2
R12:	61.6
R13:	83.9
R14:	92.5
R15:	79.8



Test Conditions

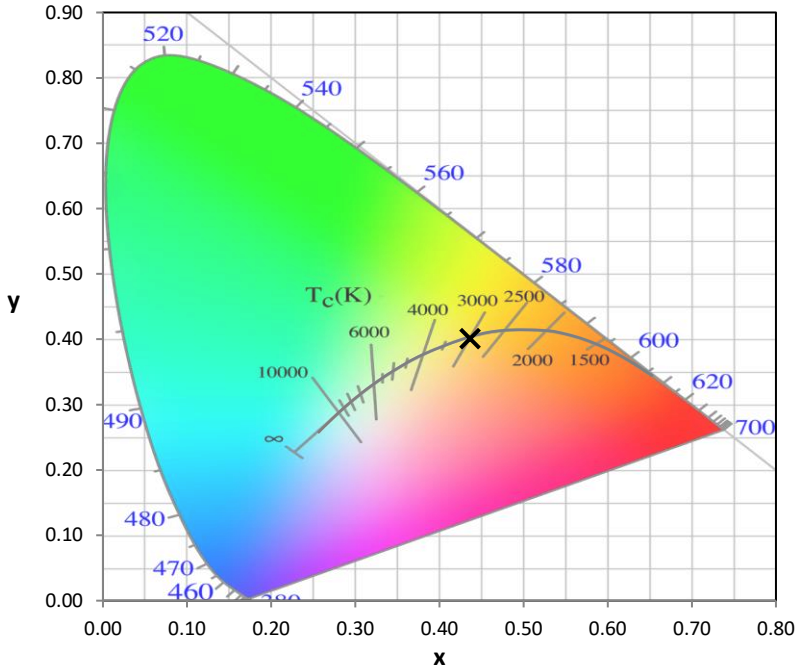
Stabilization Time:	38M
Operation Time:	1H 38M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-2

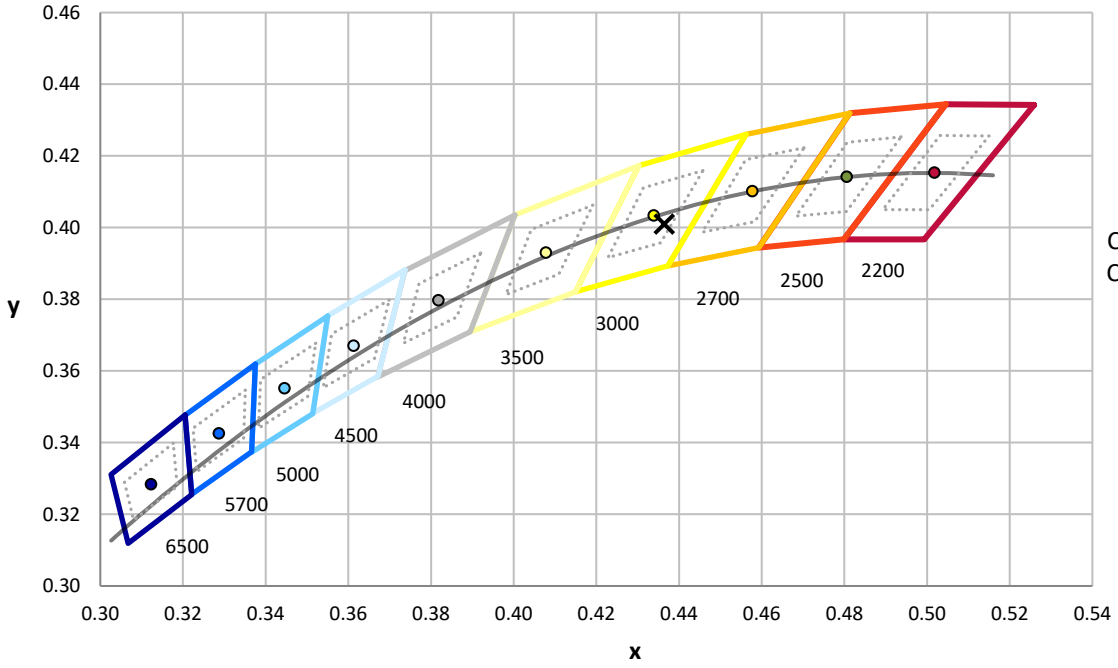
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

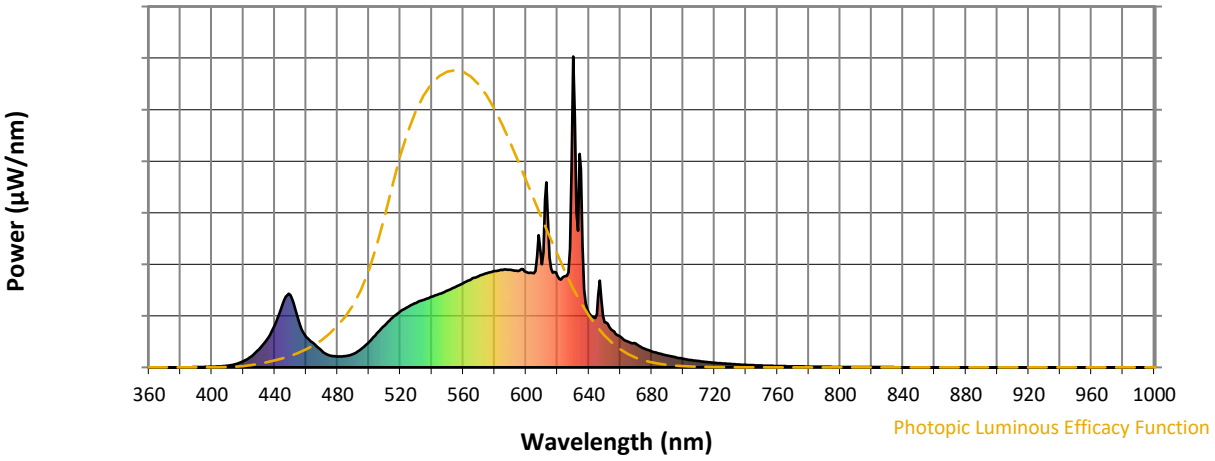


CCT = 2983K
CIE x = 0.4364
CIE y = 0.4010
Duv = -0.0012

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-2

Photopic Flux vs. Wavelength

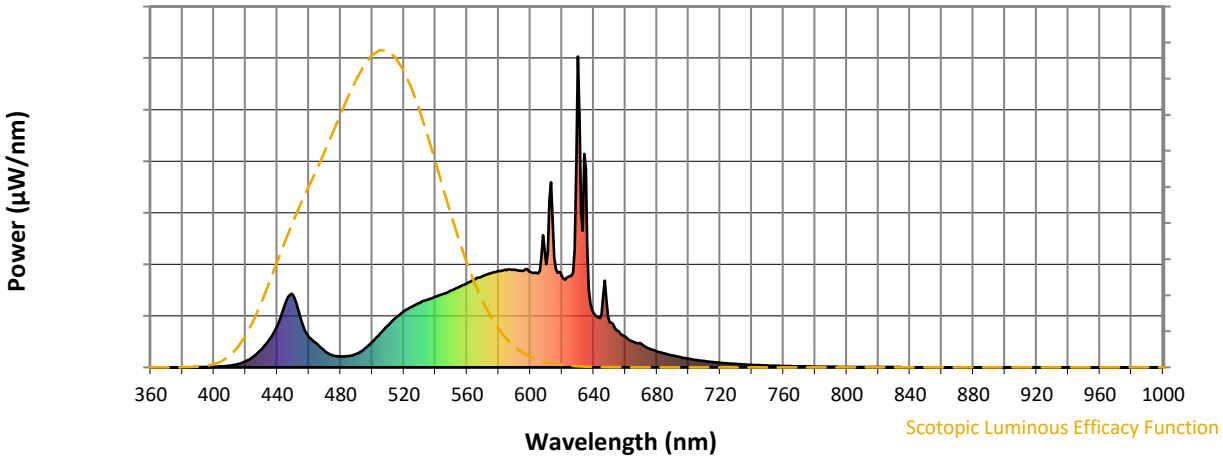


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2506-472-2

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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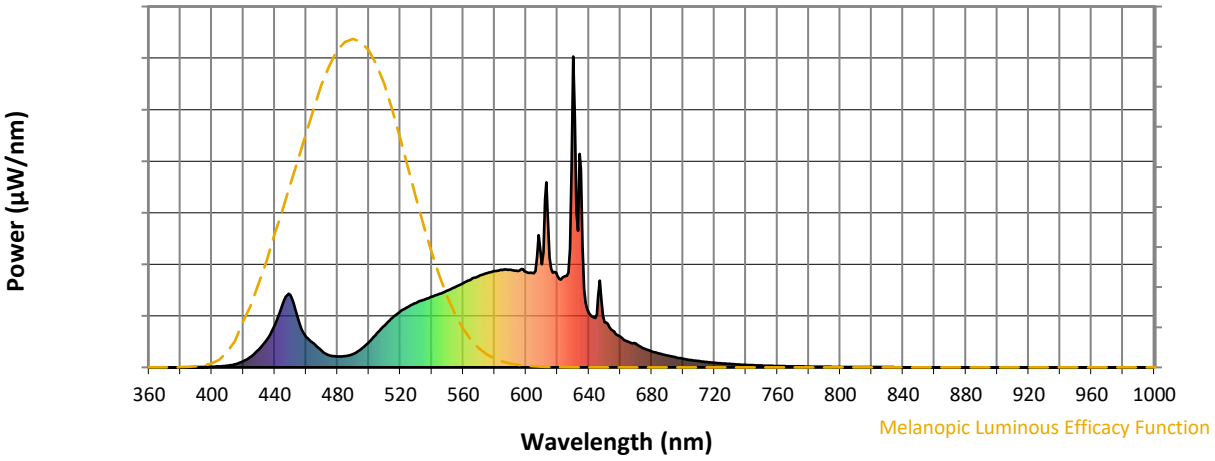
Melanopic Flux vs. Wavelength



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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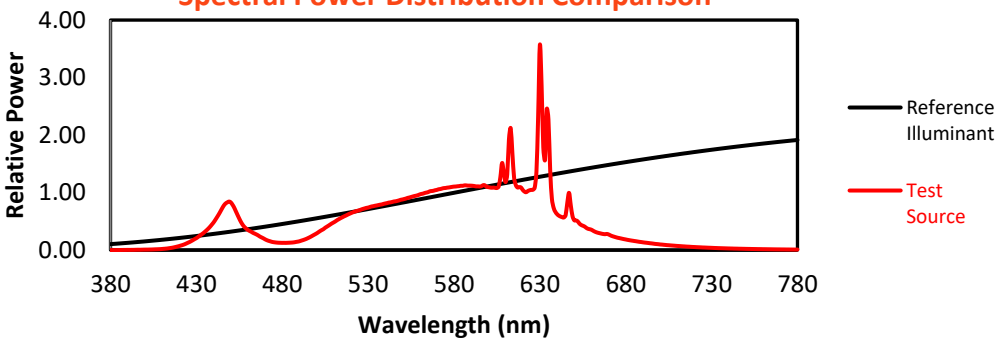
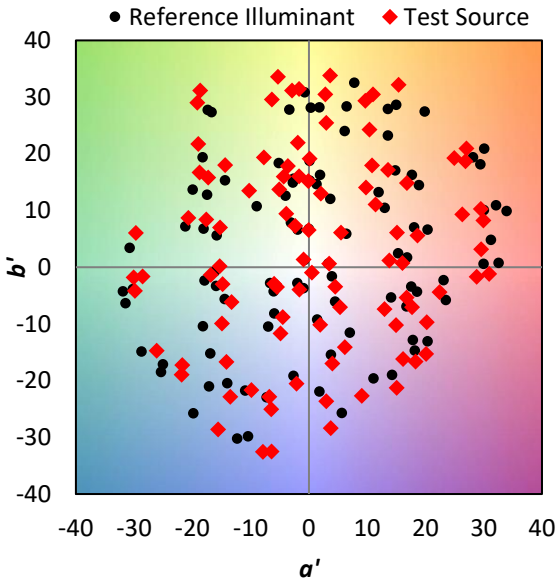
Summary

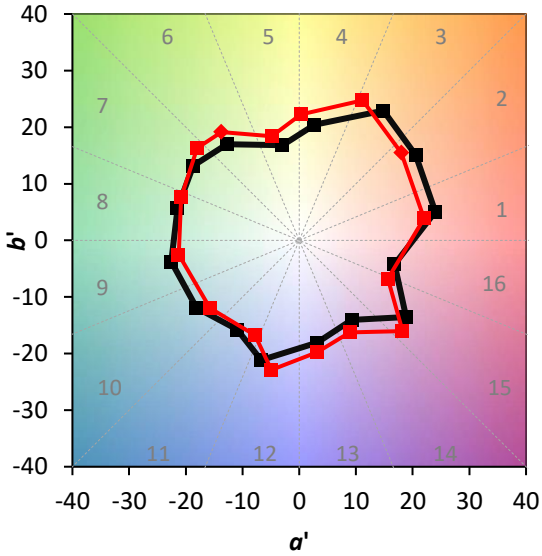
R_f = 81.2
R_g = 101.5
CIE R_a = 83.4
R_9 = 29.4

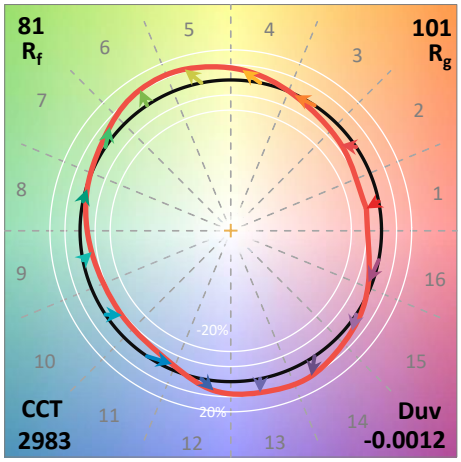
Spectral Power Distribution Comparison

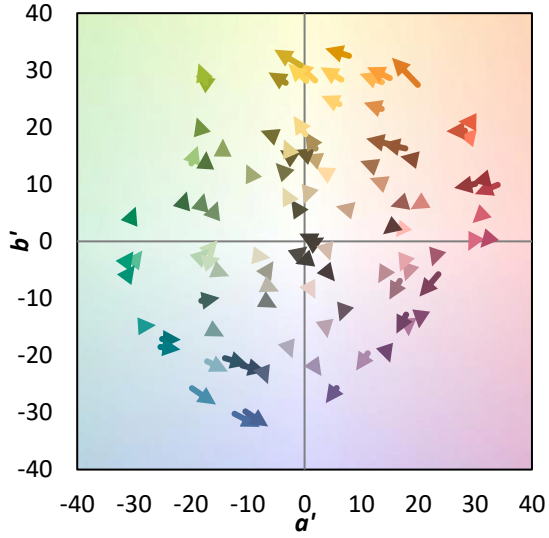


Color Vector Graphics









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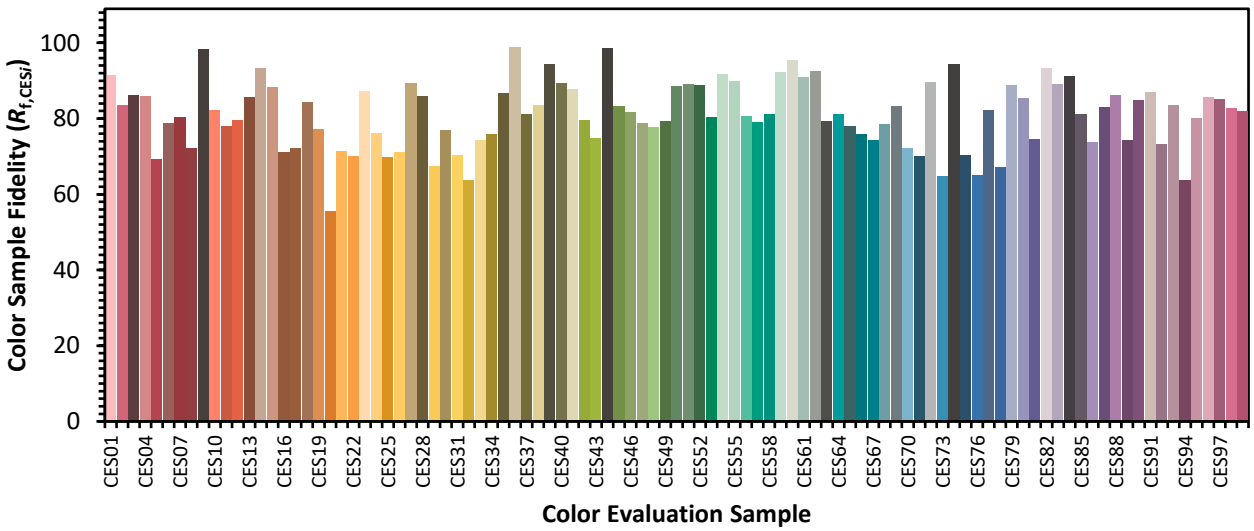
Individual Sample Fidelity Index ($R_{f,i}$)

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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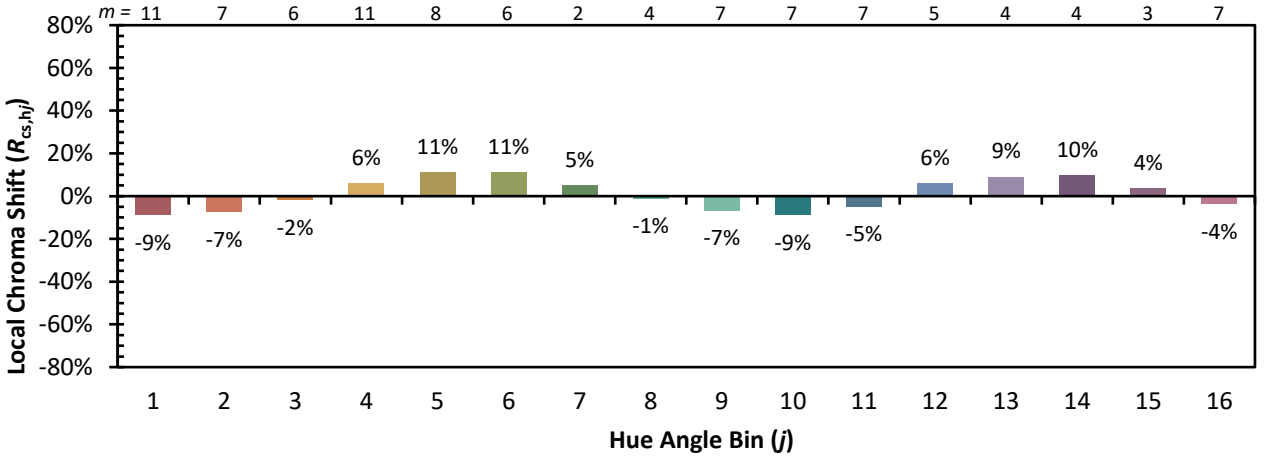
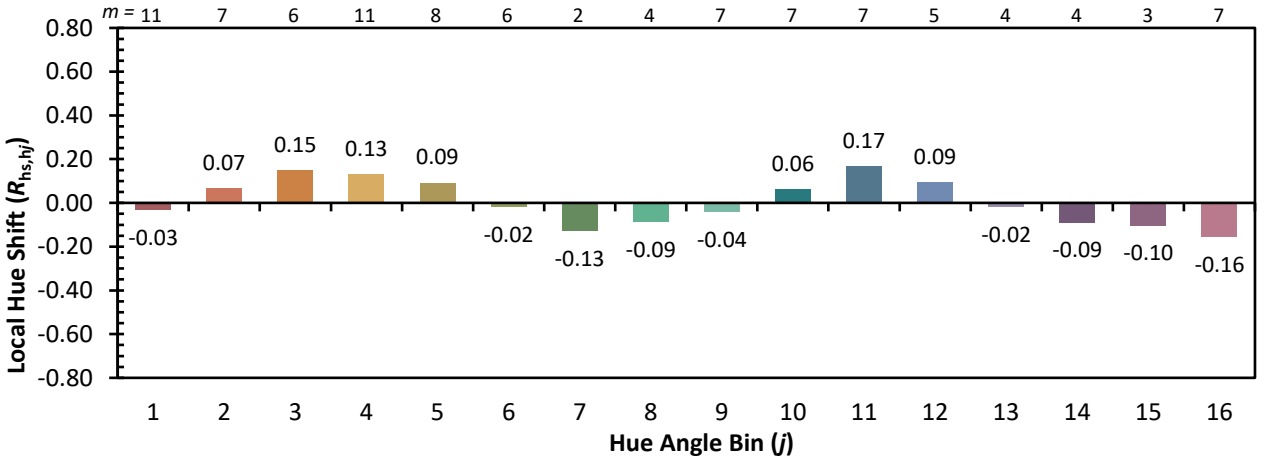
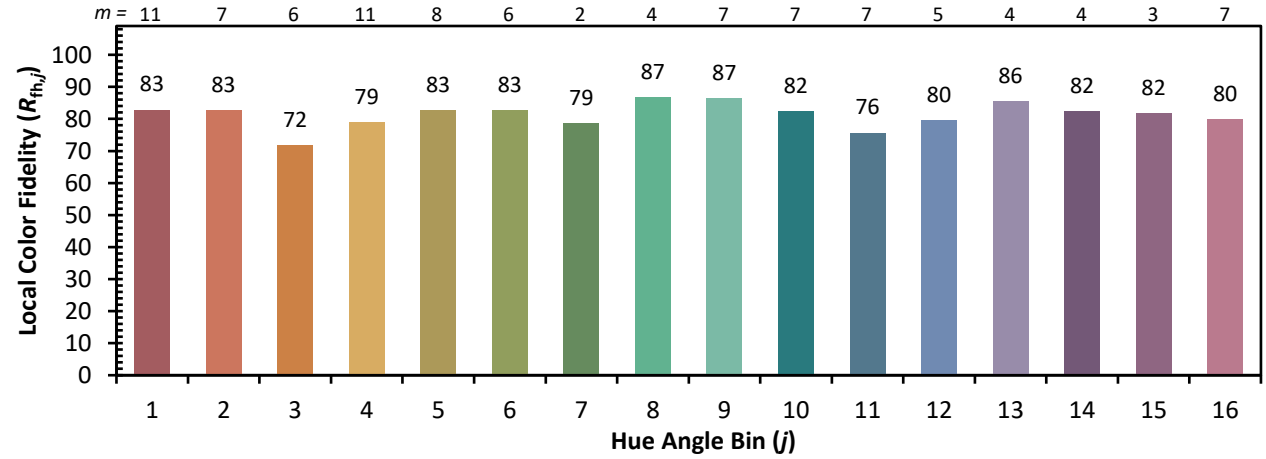
Color Rendition by Hue-Angle Bin







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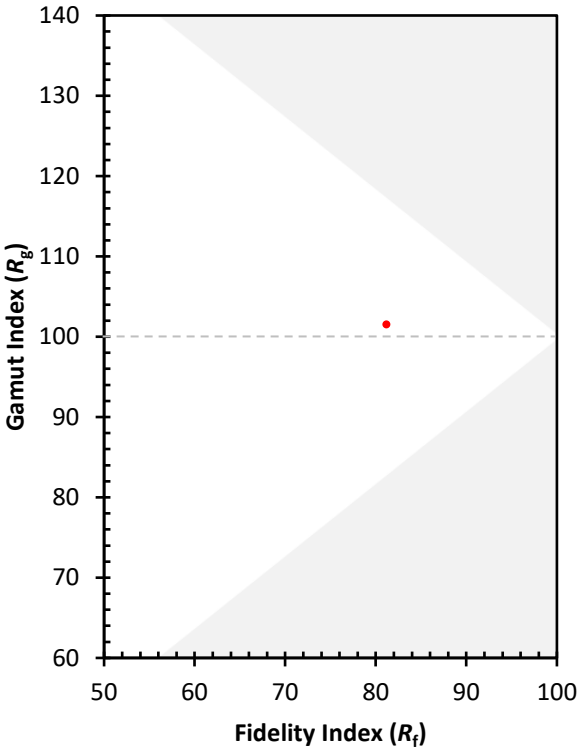
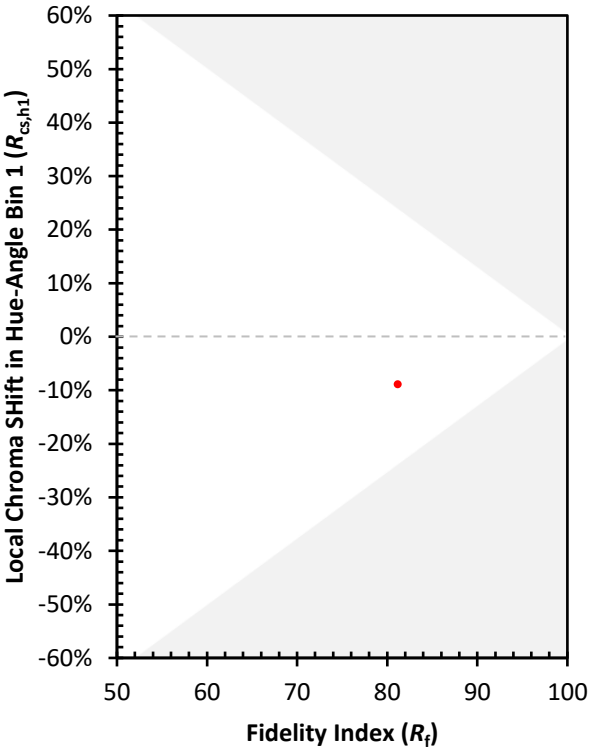
Measure Comparisons





(END OF REPORT)