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: P1432921

Luminaire Tested: EHBR1-24-UNV-N-L850-UPL40

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:	P1432921
	REPORT IS A COMBINATION OF REPORTS P1431722 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	3/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-24-UNV-N-L850-UPL40
Description:	Elevate Round Highbay at, 24000 lumens, 5000K 80CRI LEDs with N lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	28370.2 lumens
Efficiency:	N/A
Efficacy:	178.5 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:	Semi-Direct

Input Watts (W):	158.9
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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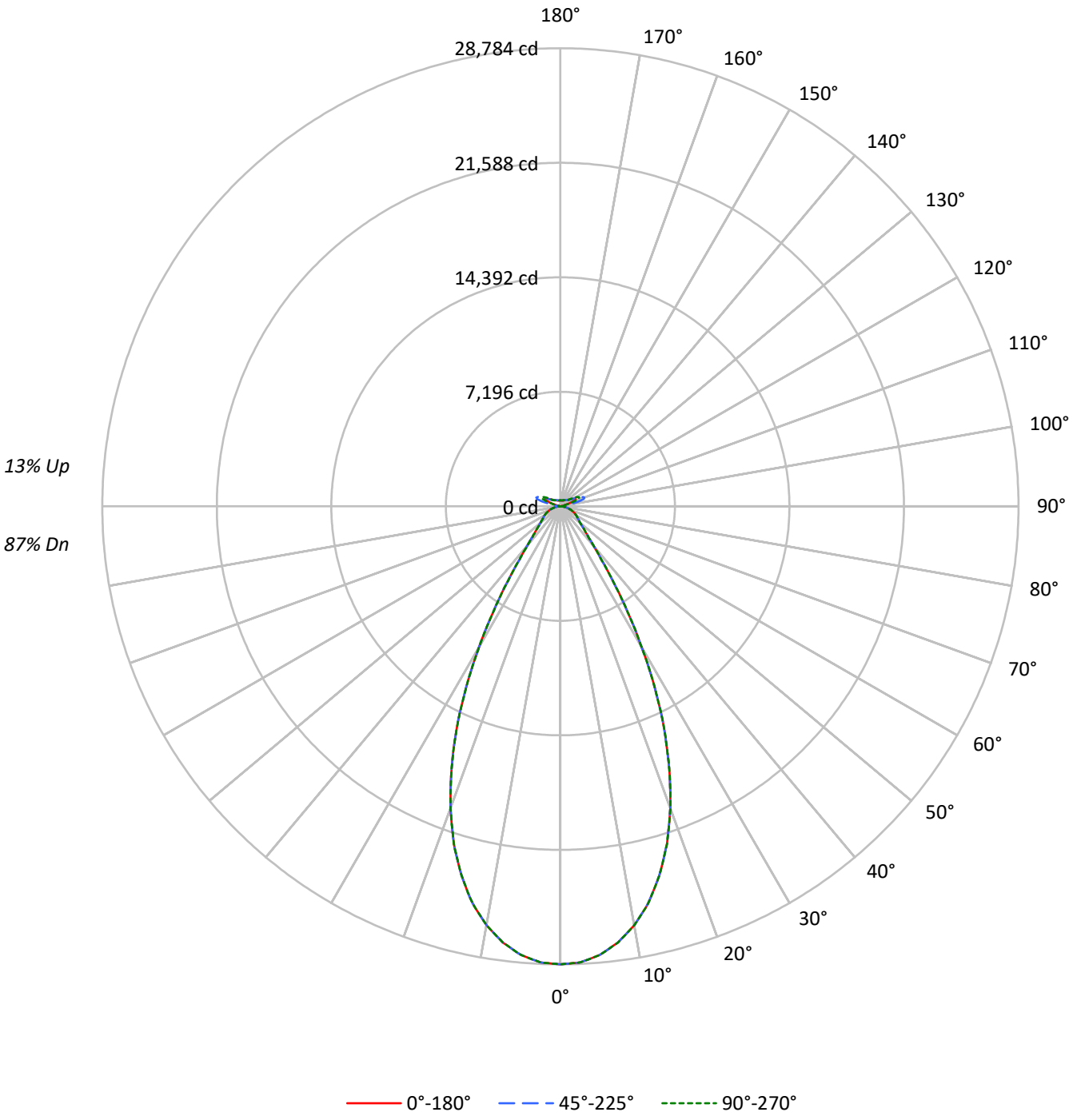
Luminous Intensity Polar Plot



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TEST NUMBER: P1432921
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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	109	106	103	100	105	102	99	97	96	94	92	90	88	87	84	83	82	79
2	102	96	92	88	99	94	89	86	88	85	82	83	81	78	79	77	75	72
3	96	89	83	78	93	86	81	77	82	77	74	77	74	71	74	71	68	66
4	91	82	76	71	88	80	74	70	76	71	67	72	68	65	69	66	63	61
5	85	76	69	65	83	74	68	64	71	66	62	68	64	60	65	61	58	57
6	81	71	64	59	78	69	63	59	66	61	57	64	59	56	61	57	54	53
7	76	66	60	55	74	65	59	54	62	57	53	60	55	52	58	54	51	49
8	72	62	56	51	70	61	55	51	59	53	50	57	52	49	55	51	48	46
9	69	58	52	48	67	57	52	47	56	50	47	54	49	46	52	48	45	43
10	65	55	49	45	64	54	48	45	53	47	44	51	46	43	49	45	42	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	135171	135171	135171
5°	132547	132547	132547
10°	125803	125803	125803
15°	114464	114464	114464
20°	98185	98185	98185
25°	77238	77238	77238
30°	53005	53005	53005
35°	31487	31487	31487
40°	18630	18630	18630
45°	13374	13374	13374
50°	10993	10993	10993
55°	9991	9991	9991
60°	9564	9564	9564
65°	9122	9122	9122
70°	8484	8484	8484
75°	7670	7670	7670
80°	6366	6366	6366
85°	4030	4030	4030

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 13374 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2651.4	9.3
10°-20°	6655.6	23.5
20°-30°	6959.1	24.5
30°-40°	3770.6	13.3
40°-50°	1734.7	6.1
50°-60°	1222.5	4.3
60°-70°	940.8	3.3
70°-80°	570.3	2.0
80°-90°	167.3	0.6
90°-100°	105.5	0.4
100°-110°	660.7	2.3
110°-120°	1181.4	4.2
120°-130°	693.2	2.4
130°-140°	425.2	1.5
140°-150°	294.9	1.0
150°-160°	191.6	0.7
160°-170°	109.2	0.4
170°-180°	36.1	0.1
0°-30°	16266.1	57.3
0°-40°	20036.7	70.6
0°-60°	22993.9	81.0
0°-90°	24672.3	87.0
90°-120°	1947.6	6.9
90°-150°	3361.0	11.8
90°-180°	3698.0	13.0
0°-180°	28370.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28784	28784	28784	28784	28784	
5°	28301	28301	28301	28301	28301	2651
15°	24014	24014	24014	24014	24014	6656
25°	15424	15424	15424	15424	15424	6959
35°	5779	5779	5779	5779	5779	3771
45°	2164	2164	2164	2164	2164	1735
55°	1350	1350	1350	1350	1350	1222
65°	952	952	952	952	952	941
75°	540	540	540	540	540	570
85°	138	138	138	138	138	154
90°	28	45	77	50	28	20
95°	47	78	171	85	53	45
105°	231	455	1162	502	305	309
115°	1063	1118	1374	1317	1308	979
125°	766	715	734	745	836	699
135°	559	542	561	527	525	437
145°	459	453	480	474	472	291
155°	402	398	417	417	417	188
165°	377	377	387	387	385	108
175°	373	373	379	379	379	36
180°	377	377	377	377	377	

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TEST NUMBER: P1432921
CATALOG NUMBER: EHBR1-24-UNV-N-L850-UPL40

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	28783.7	28783.7	28783.7	28783.7	28783.7
2.5°	28681.7	28681.7	28681.7	28681.7	28681.7
5°	28300.9	28300.9	28300.9	28300.9	28300.9
7.5°	27650.9	27650.9	27650.9	27650.9	27650.9
10°	26728.6	26728.6	26728.6	26728.6	26728.6
12.5°	25536.7	25536.7	25536.7	25536.7	25536.7
15°	24014.0	24014.0	24014.0	24014.0	24014.0
17.5°	22247.3	22247.3	22247.3	22247.3	22247.3
20°	20179.9	20179.9	20179.9	20179.9	20179.9
22.5°	17878.0	17878.0	17878.0	17878.0	17878.0
25°	15424.4	15424.4	15424.4	15424.4	15424.4
27.5°	12823.2	12823.2	12823.2	12823.2	12823.2
30°	10195.5	10195.5	10195.5	10195.5	10195.5
32.5°	7824.7	7824.7	7824.7	7824.7	7824.7
35°	5779.0	5779.0	5779.0	5779.0	5779.0
37.5°	4243.1	4243.1	4243.1	4243.1	4243.1
40°	3229.1	3229.1	3229.1	3229.1	3229.1
42.5°	2589.2	2589.2	2589.2	2589.2	2589.2
45°	2163.8	2163.8	2163.8	2163.8	2163.8
47.5°	1857.2	1857.2	1857.2	1857.2	1857.2
50°	1638.3	1638.3	1638.3	1638.3	1638.3
52.5°	1478.5	1478.5	1478.5	1478.5	1478.5
55°	1350.2	1350.2	1350.2	1350.2	1350.2
57.5°	1246.0	1246.0	1246.0	1246.0	1246.0
60°	1149.7	1149.7	1149.7	1149.7	1149.7
62.5°	1053.4	1053.4	1053.4	1053.4	1053.4
65°	952.1	952.1	952.1	952.1	952.1
67.5°	848.9	848.9	848.9	848.9	848.9
70°	744.4	744.4	744.4	744.4	744.4
72.5°	642.7	642.7	642.7	642.7	642.7
75°	540.3	540.3	540.3	540.3	540.3
77.5°	439.8	439.8	439.8	439.8	439.8
80°	334.9	334.9	334.9	334.9	334.9
82.5°	234.5	234.5	234.5	234.5	234.5
85°	138.5	138.5	138.5	138.5	138.5
87.5°	49.6	49.6	49.6	49.6	49.6
90°	28.3	45.3	77.0	49.5	28.3
92.5°	40.2	67.8	122.8	63.5	36.0
95°	46.6	78.3	171.4	84.7	52.9
97.5°	59.2	86.7	196.9	103.7	82.5
100°	78.3	101.6	307.0	127.0	110.1
102.5°	133.4	215.9	652.0	239.2	167.2
105°	230.7	455.1	1162.1	501.7	304.8
107.5°	400.1	814.9	1532.5	889.0	577.9
110°	747.2	1081.6	1606.6	1221.3	925.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	*1009.7*	1162.1	1538.9	1348.3	1204.4
115°	*1062.6*	1117.7	1373.7	1316.6	1308.1
117.5°	*1026.6*	1020.2	1166.3	1183.3	1263.6
120°	*950.4*	908.0	973.7	1033.0	1140.9
122.5°	*855.2*	804.3	834.0	878.5	986.4
125°	*766.2*	715.4	734.5	745.1	836.1
127.5°	*687.9*	654.0	664.6	652.0	709.1
130°	*635.1*	605.4	620.2	590.6	618.1
132.5°	*590.6*	571.5	588.4	552.4	560.9
135°	*558.8*	541.8	560.9	527.1	524.9
137.5°	*531.3*	516.5	535.5	510.1	503.8
140°	*505.9*	493.2	514.3	495.3	491.1
142.5°	*478.4*	469.9	495.3	482.6	478.4
145°	*459.3*	452.9	480.4	474.2	472.0
147.5°	*442.4*	438.2	463.5	461.5	461.5
150°	*427.6*	423.4	448.7	446.7	448.7
152.5°	*412.8*	408.5	431.8	429.7	431.8
155°	*402.2*	397.9	417.0	417.0	417.0
157.5°	*393.7*	391.5	406.4	406.4	406.4
160°	*387.3*	385.3	397.9	397.9	395.9
162.5°	*381.0*	378.9	393.7	391.5	391.5
165°	*376.8*	376.8	387.3	387.3	385.3
167.5°	*376.8*	374.6	385.3	385.3	383.1
170°	*374.6*	374.6	383.1	381.0	378.9
172.5°	*374.6*	374.6	383.1	381.0	378.9
175°	*372.6*	372.6	378.9	378.9	378.9
177.5°	*374.6*	374.6	378.9	378.9	376.8
180°	*376.8*	376.8	376.8	376.8	376.8

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Scaled Data Report

TEST NUMBER: P1432921
CATALOG NUMBER: EHBR1-24-UNV-N-L850-UPL40

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	15.42	16.41	16.01	16.98	17.61	15.42	16.41	16.01	16.98	17.61
	3H	17.20	18.08	17.80	18.66	19.33	17.20	18.08	17.80	18.66	19.33
	4H	17.85	18.68	18.47	19.27	19.96	17.85	18.68	18.47	19.27	19.96
	6H	18.31	19.07	18.94	19.67	20.37	18.31	19.07	18.94	19.67	20.37
	8H	18.43	19.15	19.08	19.77	20.48	18.43	19.15	19.08	19.77	20.48
	12H	18.48	19.17	19.13	19.78	20.51	18.48	19.17	19.13	19.78	20.51
4H	2H	15.96	16.78	16.58	17.37	18.06	15.96	16.78	16.58	17.37	18.06
	3H	17.92	18.60	18.55	19.24	19.94	17.92	18.60	18.55	19.24	19.94
	4H	18.70	19.31	19.34	19.95	20.69	18.70	19.31	19.34	19.95	20.69
	6H	19.27	19.79	19.94	20.46	21.21	19.27	19.79	19.94	20.46	21.21
	8H	19.42	19.92	20.10	20.58	21.34	19.42	19.92	20.10	20.58	21.34
	12H	19.50	19.93	20.19	20.63	21.39	19.50	19.93	20.19	20.63	21.39
8H	4H	18.92	19.42	19.60	20.08	20.84	18.92	19.42	19.60	20.08	20.84
	6H	19.61	20.00	20.31	20.71	21.48	19.61	20.00	20.31	20.71	21.48
	8H	19.83	20.18	20.55	20.90	21.68	19.83	20.18	20.55	20.90	21.68
	12H	19.96	20.27	20.68	20.97	21.82	19.96	20.27	20.68	20.97	21.82
12H	4H	18.92	19.35	19.61	20.04	20.81	18.92	19.35	19.61	20.04	20.81
	6H	19.63	19.98	20.35	20.70	21.48	19.63	19.98	20.35	20.70	21.48
	8H	19.89	20.20	20.61	20.90	21.75	19.89	20.20	20.61	20.90	21.75

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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: SP1-2506-472-4

Test Date: 07/31/2025

Luminaire Tested: EHBR-60-L850-N

Data in this report applies to families of products including EHBR-60-L850-N

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

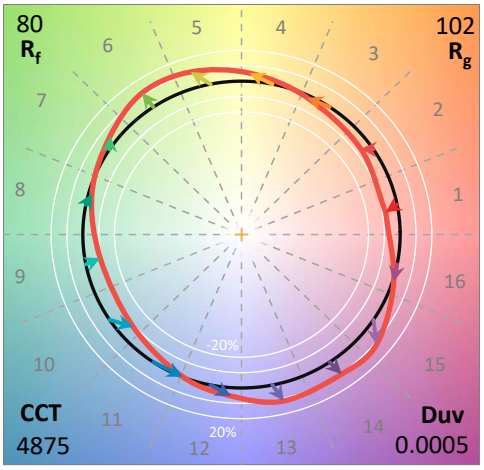
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2506-472-4
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-L850-N**
Description:	Elevate Round Highbay at, 60000 lumens, 5000K 80CRI LEDs with N lens

Spectral Parameters

CCT (K):	4875
CIE u':	0.2124
CIE v':	0.4871
Duv:	0.0005
CIE x:	0.3488
CIE y:	0.3555
CIE z:	0.2957
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	573
Purity:	11.33556
Rf:	80
Rg:	102.3

CRI (Ra):	82.3
R1:	85.0
R2:	83.1
R3:	78.8
R4:	84.0
R5:	83.0
R6:	76.3
R7:	86.8
R8:	81.7
R9:	43.9
R10:	57.4
R11:	83.1
R12:	51.0
R13:	83.4
R14:	87.4
R15:	83.4



Test Conditions

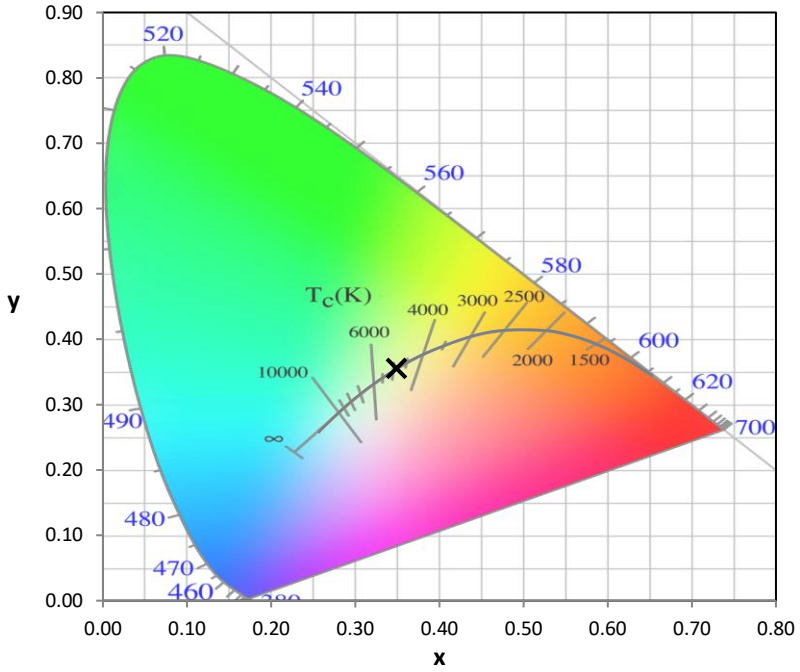
Stabilization Time:	39M
Operation Time:	1H 39M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-4

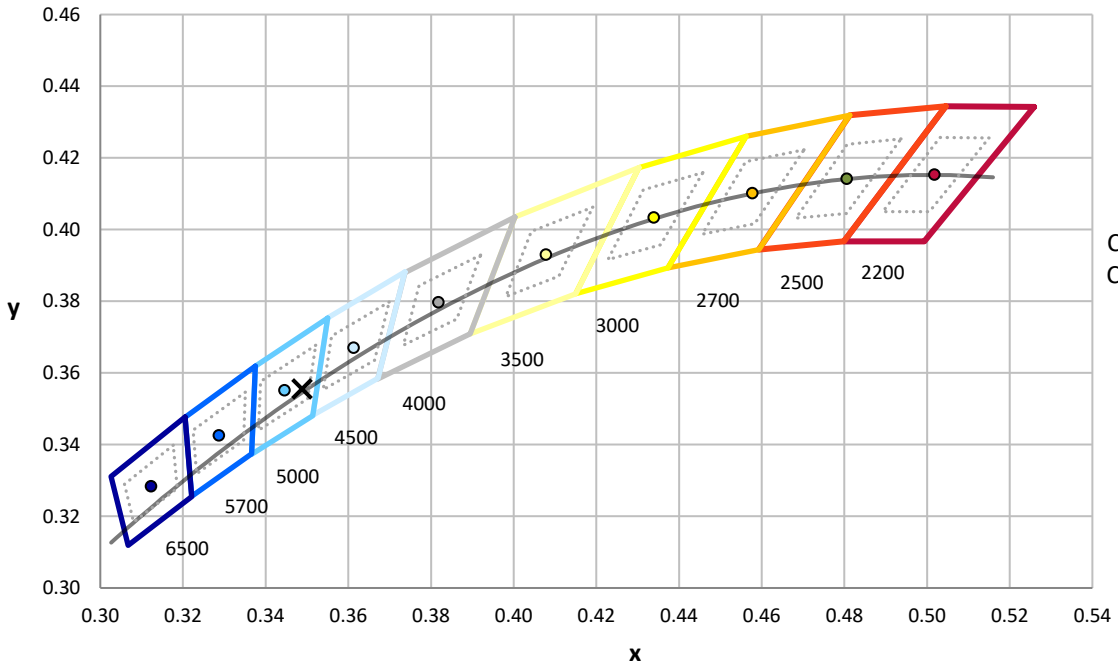
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2506-472-4

CIE 1931 Chromaticity Diagram



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

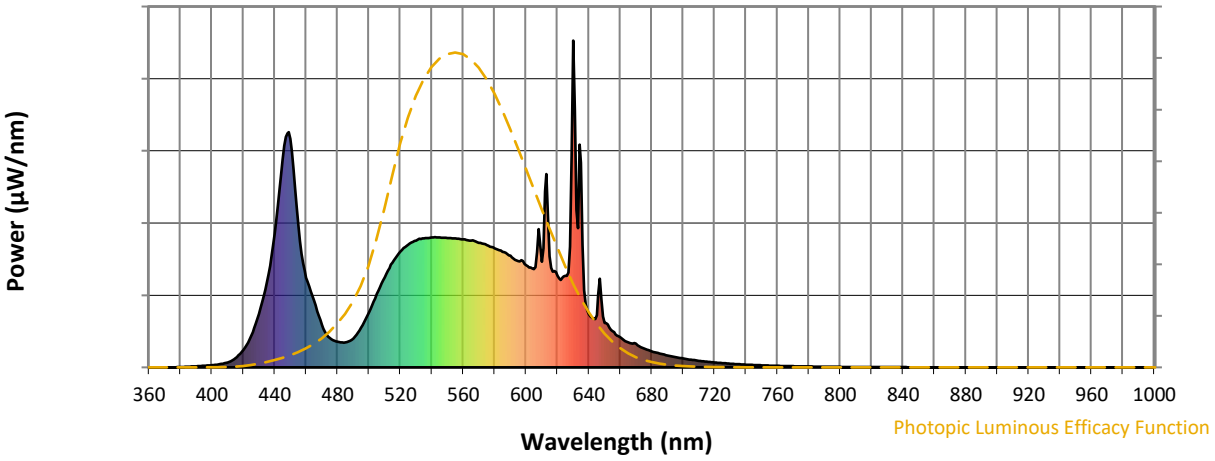


CCT = 4875K
CIE x = 0.3488
CIE y = 0.3555
Duv = 0.0005

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-4

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	89	NR	620	280	NR	750	6	NR	880	0	NR
365	0	NR	495	121	NR	625	280	NR	755	5	NR	885	0	NR
370	0	NR	500	168	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	224	NR	635	626	NR	765	4	NR	895	0	NR
380	1	NR	510	275	NR	640	163	NR	770	4	NR	900	0	NR
385	2	NR	515	321	NR	645	160	NR	775	3	NR	905	0	NR
390	3	NR	520	354	NR	650	136	NR	780	3	NR	910	0	NR
395	5	NR	525	375	NR	655	111	NR	785	2	NR	915	0	NR
400	7	NR	530	388	NR	660	93	NR	790	2	NR	920	0	NR
405	10	NR	535	395	NR	665	76	NR	795	2	NR	925	0	NR
410	15	NR	540	397	NR	670	72	NR	800	2	NR	930	0	NR
415	28	NR	545	398	NR	675	57	NR	805	1	NR	935	0	NR
420	53	NR	550	396	NR	680	49	NR	810	1	NR	940	0	NR
425	97	NR	555	395	NR	685	42	NR	815	1	NR	945	0	NR
430	163	NR	560	392	NR	690	37	NR	820	1	NR	950	0	NR
435	261	NR	565	388	NR	695	32	NR	825	1	NR	955	0	NR
440	409	NR	570	381	NR	700	27	NR	830	1	NR	960	0	NR
445	637	NR	575	374	NR	705	23	NR	835	1	NR	965	0	NR
450	699	NR	580	365	NR	710	20	NR	840	1	NR	970	0	NR
455	436	NR	585	354	NR	715	17	NR	845	0	NR	975	0	NR
460	274	NR	590	342	NR	720	15	NR	850	0	NR	980	0	NR
465	205	NR	595	325	NR	725	13	NR	855	0	NR	985	0	NR
470	130	NR	600	313	NR	730	11	NR	860	0	NR	990	0	NR
475	90	NR	605	301	NR	735	10	NR	865	0	NR	995	0	NR
480	78	NR	610	323	NR	740	8	NR	870	0	NR	1000	0	NR
485	77	NR	615	340	NR	745	7	NR	875	0	NR			

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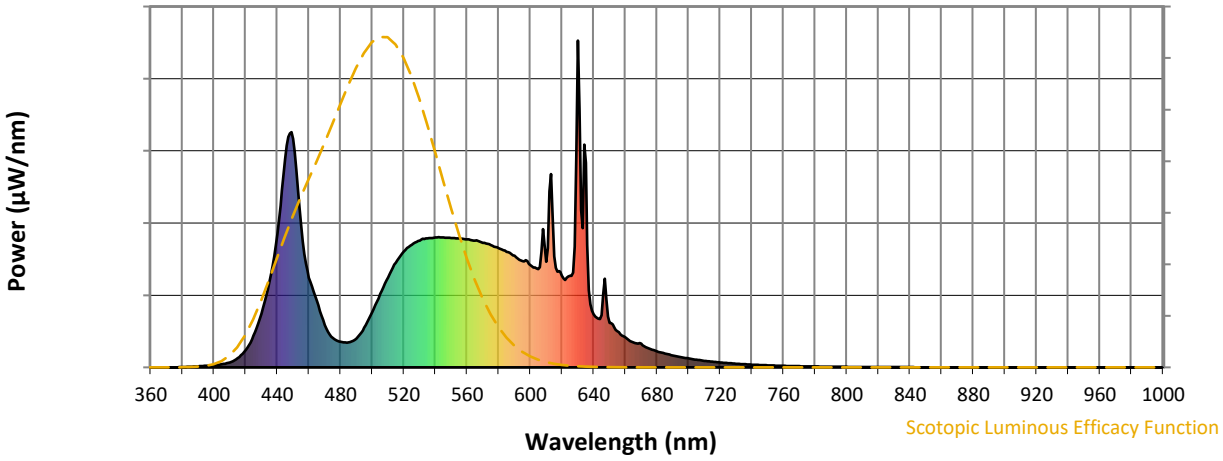
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.82**

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	89	NR	620	280	NR	750	6	NR	880	0	NR
365	0	NR	495	121	NR	625	280	NR	755	5	NR	885	0	NR
370	0	NR	500	168	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	224	NR	635	626	NR	765	4	NR	895	0	NR
380	1	NR	510	275	NR	640	163	NR	770	4	NR	900	0	NR
385	2	NR	515	321	NR	645	160	NR	775	3	NR	905	0	NR
390	3	NR	520	354	NR	650	136	NR	780	3	NR	910	0	NR
395	5	NR	525	375	NR	655	111	NR	785	2	NR	915	0	NR
400	7	NR	530	388	NR	660	93	NR	790	2	NR	920	0	NR
405	10	NR	535	395	NR	665	76	NR	795	2	NR	925	0	NR
410	15	NR	540	397	NR	670	72	NR	800	2	NR	930	0	NR
415	28	NR	545	398	NR	675	57	NR	805	1	NR	935	0	NR
420	53	NR	550	396	NR	680	49	NR	810	1	NR	940	0	NR
425	97	NR	555	395	NR	685	42	NR	815	1	NR	945	0	NR
430	163	NR	560	392	NR	690	37	NR	820	1	NR	950	0	NR
435	261	NR	565	388	NR	695	32	NR	825	1	NR	955	0	NR
440	409	NR	570	381	NR	700	27	NR	830	1	NR	960	0	NR
445	637	NR	575	374	NR	705	23	NR	835	1	NR	965	0	NR
450	699	NR	580	365	NR	710	20	NR	840	1	NR	970	0	NR
455	436	NR	585	354	NR	715	17	NR	845	0	NR	975	0	NR
460	274	NR	590	342	NR	720	15	NR	850	0	NR	980	0	NR
465	205	NR	595	325	NR	725	13	NR	855	0	NR	985	0	NR
470	130	NR	600	313	NR	730	11	NR	860	0	NR	990	0	NR
475	90	NR	605	301	NR	735	10	NR	865	0	NR	995	0	NR
480	78	NR	610	323	NR	740	8	NR	870	0	NR	1000	0	NR
485	77	NR	615	340	NR	745	7	NR	875	0	NR			

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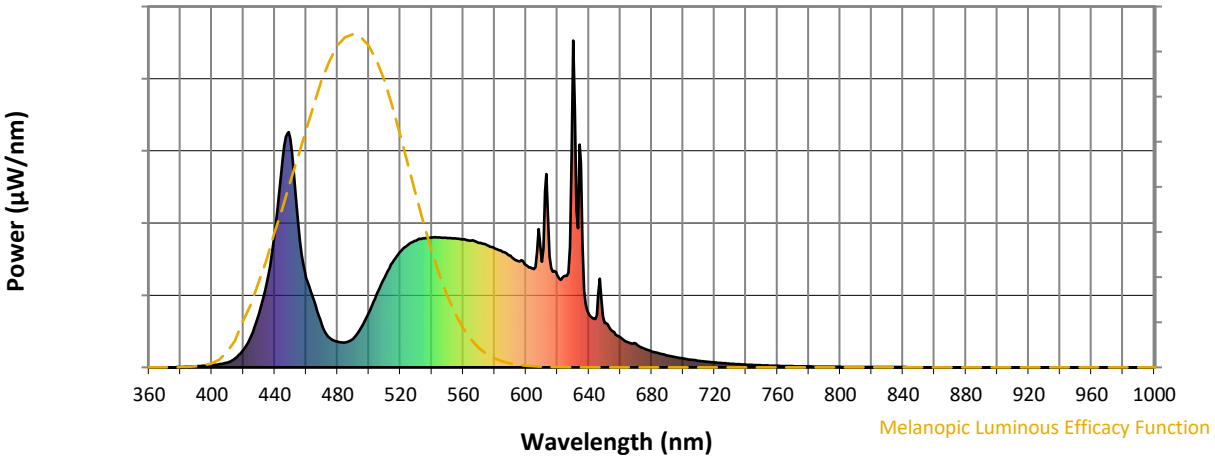
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.71**

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	89	NR	620	280	NR	750	6	NR	880	0	NR
365	0	NR	495	121	NR	625	280	NR	755	5	NR	885	0	NR
370	0	NR	500	168	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	224	NR	635	626	NR	765	4	NR	895	0	NR
380	1	NR	510	275	NR	640	163	NR	770	4	NR	900	0	NR
385	2	NR	515	321	NR	645	160	NR	775	3	NR	905	0	NR
390	3	NR	520	354	NR	650	136	NR	780	3	NR	910	0	NR
395	5	NR	525	375	NR	655	111	NR	785	2	NR	915	0	NR
400	7	NR	530	388	NR	660	93	NR	790	2	NR	920	0	NR
405	10	NR	535	395	NR	665	76	NR	795	2	NR	925	0	NR
410	15	NR	540	397	NR	670	72	NR	800	2	NR	930	0	NR
415	28	NR	545	398	NR	675	57	NR	805	1	NR	935	0	NR
420	53	NR	550	396	NR	680	49	NR	810	1	NR	940	0	NR
425	97	NR	555	395	NR	685	42	NR	815	1	NR	945	0	NR
430	163	NR	560	392	NR	690	37	NR	820	1	NR	950	0	NR
435	261	NR	565	388	NR	695	32	NR	825	1	NR	955	0	NR
440	409	NR	570	381	NR	700	27	NR	830	1	NR	960	0	NR
445	637	NR	575	374	NR	705	23	NR	835	1	NR	965	0	NR
450	699	NR	580	365	NR	710	20	NR	840	1	NR	970	0	NR
455	436	NR	585	354	NR	715	17	NR	845	0	NR	975	0	NR
460	274	NR	590	342	NR	720	15	NR	850	0	NR	980	0	NR
465	205	NR	595	325	NR	725	13	NR	855	0	NR	985	0	NR
470	130	NR	600	313	NR	730	11	NR	860	0	NR	990	0	NR
475	90	NR	605	301	NR	735	10	NR	865	0	NR	995	0	NR
480	78	NR	610	323	NR	740	8	NR	870	0	NR	1000	0	NR
485	77	NR	615	340	NR	745	7	NR	875	0	NR			

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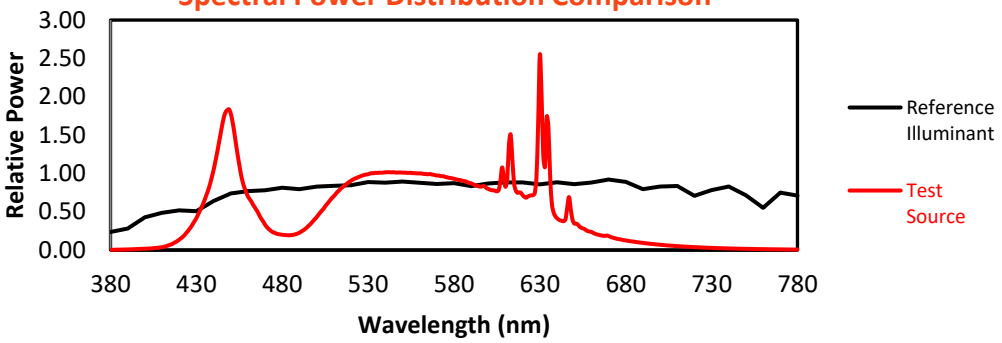
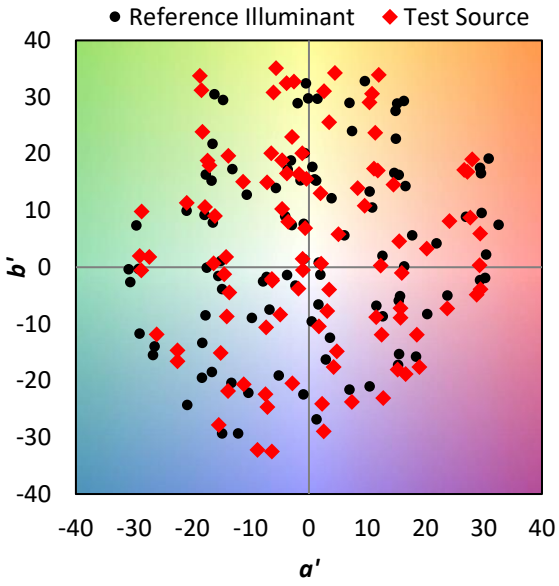
Summary

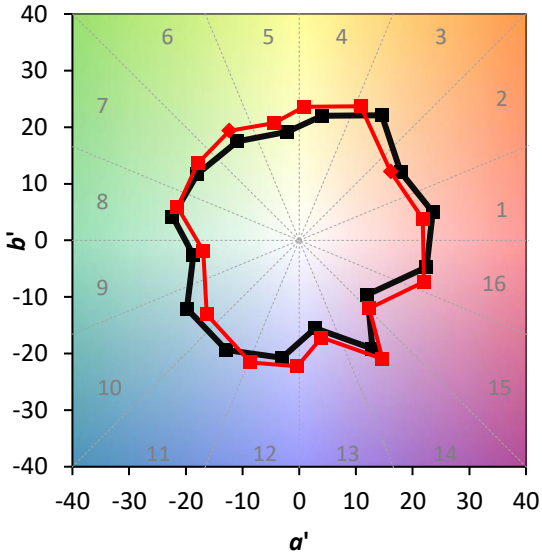
R_f = 80
R_g = 102.3
CIE R_a = 82.3
R_9 = 43.9

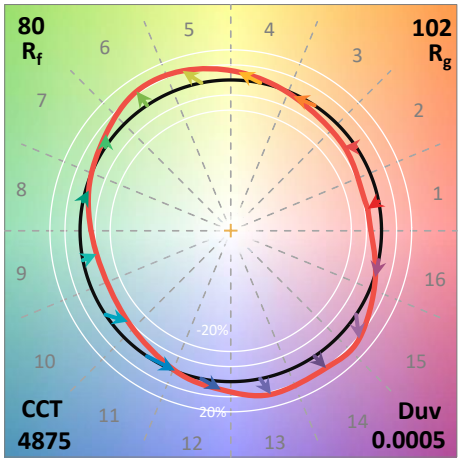
Spectral Power Distribution Comparison

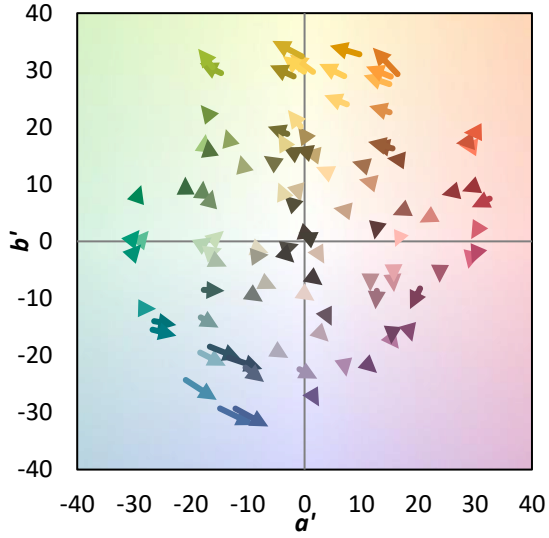


Color Vector Graphics









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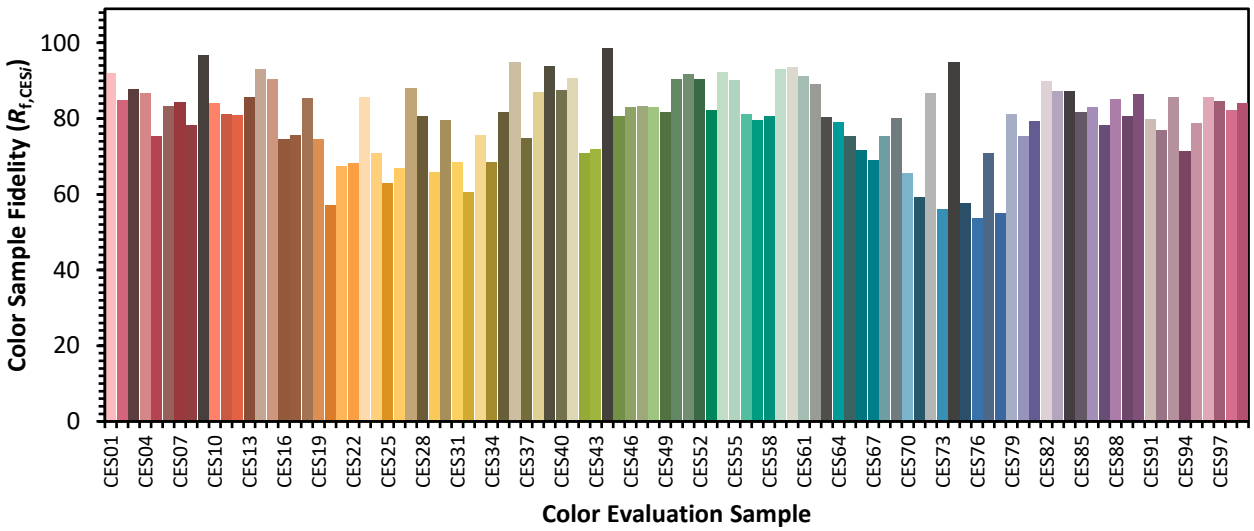
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 67	CES51 = 92	CES76 = 54
CES02 = 60	CES27 = 88	CES52 = 91	CES77 = 71
CES03 = 31	CES28 = 81	CES53 = 82	CES78 = 55
CES04 = 69	CES29 = 66	CES54 = 92	CES79 = 81
CES05 = 47	CES30 = 80	CES55 = 90	CES80 = 75
CES06 = 50	CES31 = 69	CES56 = 81	CES81 = 79
CES07 = 40	CES32 = 61	CES57 = 80	CES82 = 90
CES08 = 39	CES33 = 76	CES58 = 81	CES83 = 87
CES09 = 29	CES34 = 68	CES59 = 93	CES84 = 87
CES10 = 73	CES35 = 82	CES60 = 94	CES85 = 82
CES11 = 56	CES36 = 95	CES61 = 91	CES86 = 83
CES12 = 62	CES37 = 75	CES62 = 89	CES87 = 78
CES13 = 42	CES38 = 87	CES63 = 80	CES88 = 85
CES14 = 74	CES39 = 94	CES64 = 79	CES89 = 81
CES15 = 71	CES40 = 87	CES65 = 75	CES90 = 86
CES16 = 46	CES41 = 91	CES66 = 72	CES91 = 80
CES17 = 48	CES42 = 71	CES67 = 69	CES92 = 77
CES18 = 56	CES43 = 72	CES68 = 75	CES93 = 86
CES19 = 70	CES44 = 99	CES69 = 80	CES94 = 71
CES20 = 65	CES45 = 81	CES70 = 66	CES95 = 79
CES21 = 85	CES46 = 83	CES71 = 59	CES96 = 86
CES22 = 77	CES47 = 83	CES72 = 87	CES97 = 85
CES23 = 91	CES48 = 83	CES73 = 56	CES98 = 82
CES24 = 90	CES49 = 82	CES74 = 95	CES99 = 84
CES25 = 71	CES50 = 91	CES75 = 58	



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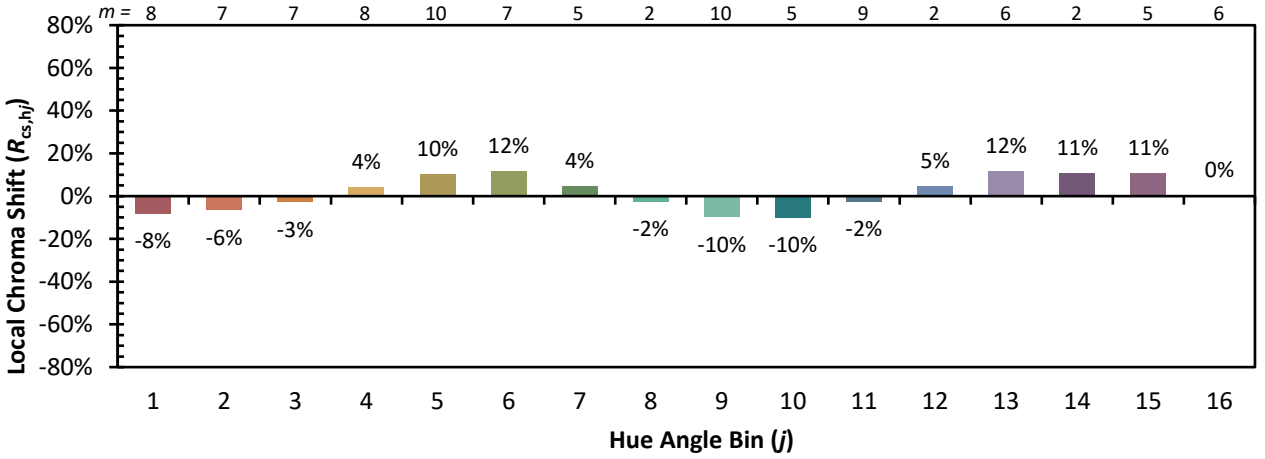
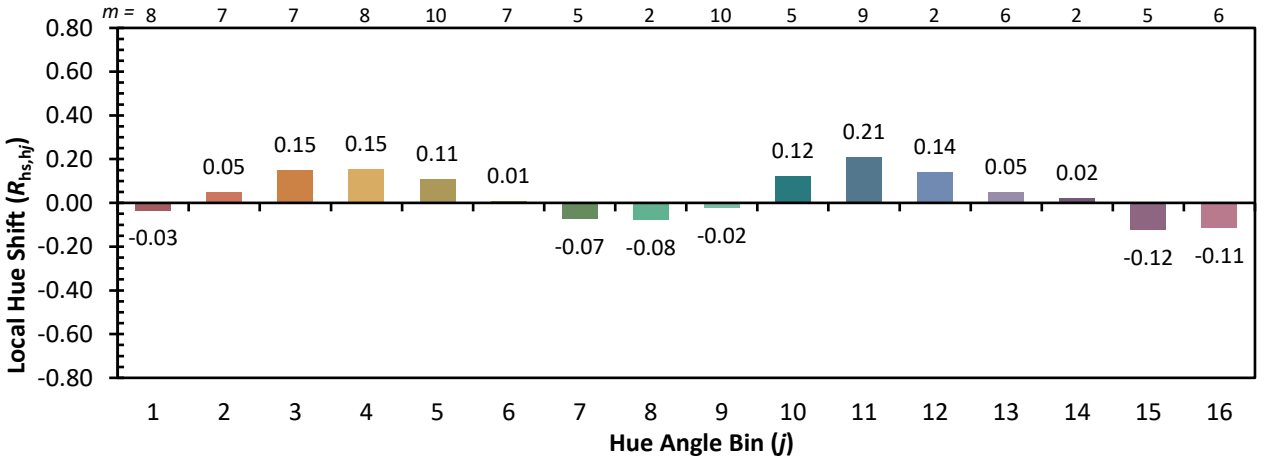
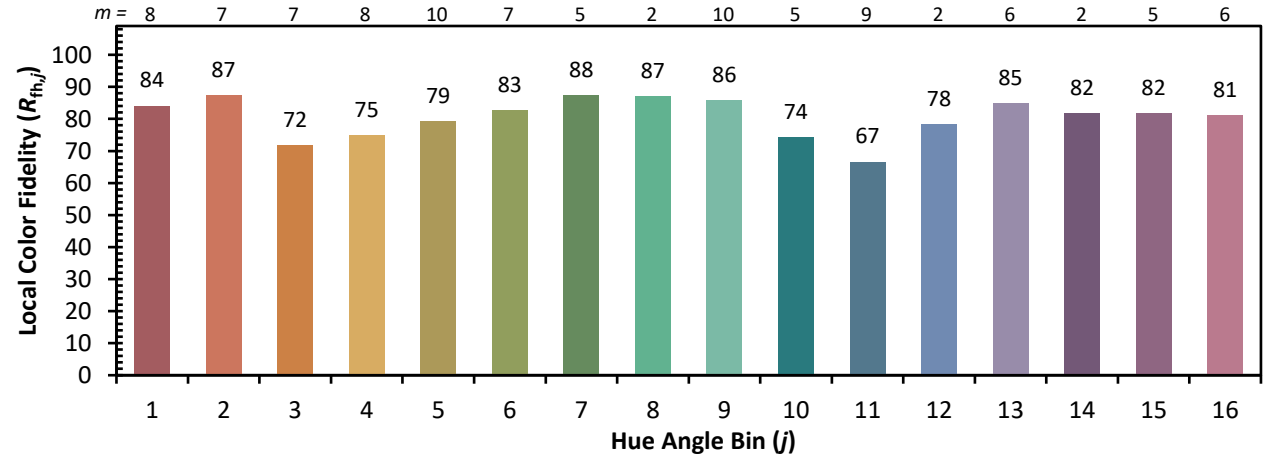
Color Rendition by Hue-Angle Bin







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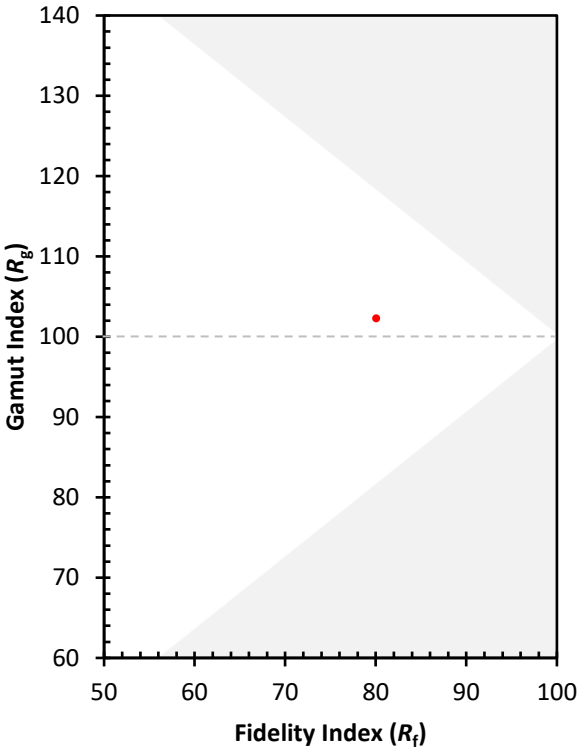
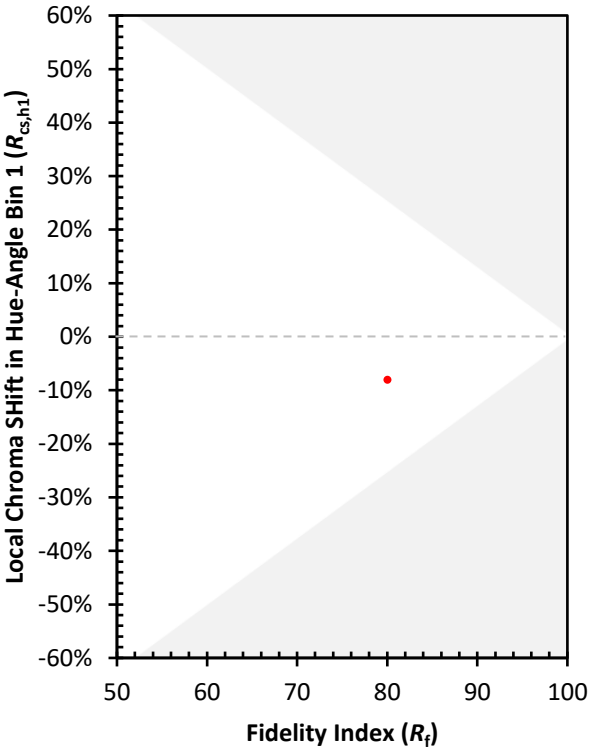
Measure Comparisons





(END OF REPORT)