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: CORELITE

Report Number: P1215522

Luminaire Tested: 24-ID2-20-CFR1-L835-U

Issue Date: 12/5/2025

Report Generated By 670265710 / DESKTOP-98SHLC4

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

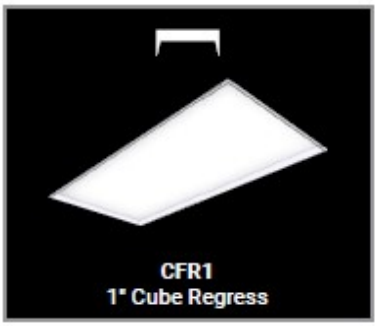
Test Information

Test Method:	LM-79-2019
Report Number:	P1215522
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2508-510-6)
Test Lab:	INNOVATION CENTER
Issue Date:	12/5/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	CORELITE
Catalog Number:	24-ID2-20-CFR1-L835-U
Description:	2X4 IN DEPTH TROFFER WITH 1INCH CUBE REGRESS LENS
Light Source:	3500K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2157.0 lumens
Efficiency:	N/A
Efficacy:	123.3 lumens/watt
Spacing Criteria (0/90/45):	1.21 / 1.19 / 1.3
Luminous Opening:	Rectangular (W 2' x L: 4' x H: 0')
CIE Type:	Direct

Input Watts (W):	17.5
Input Voltage (V):	120
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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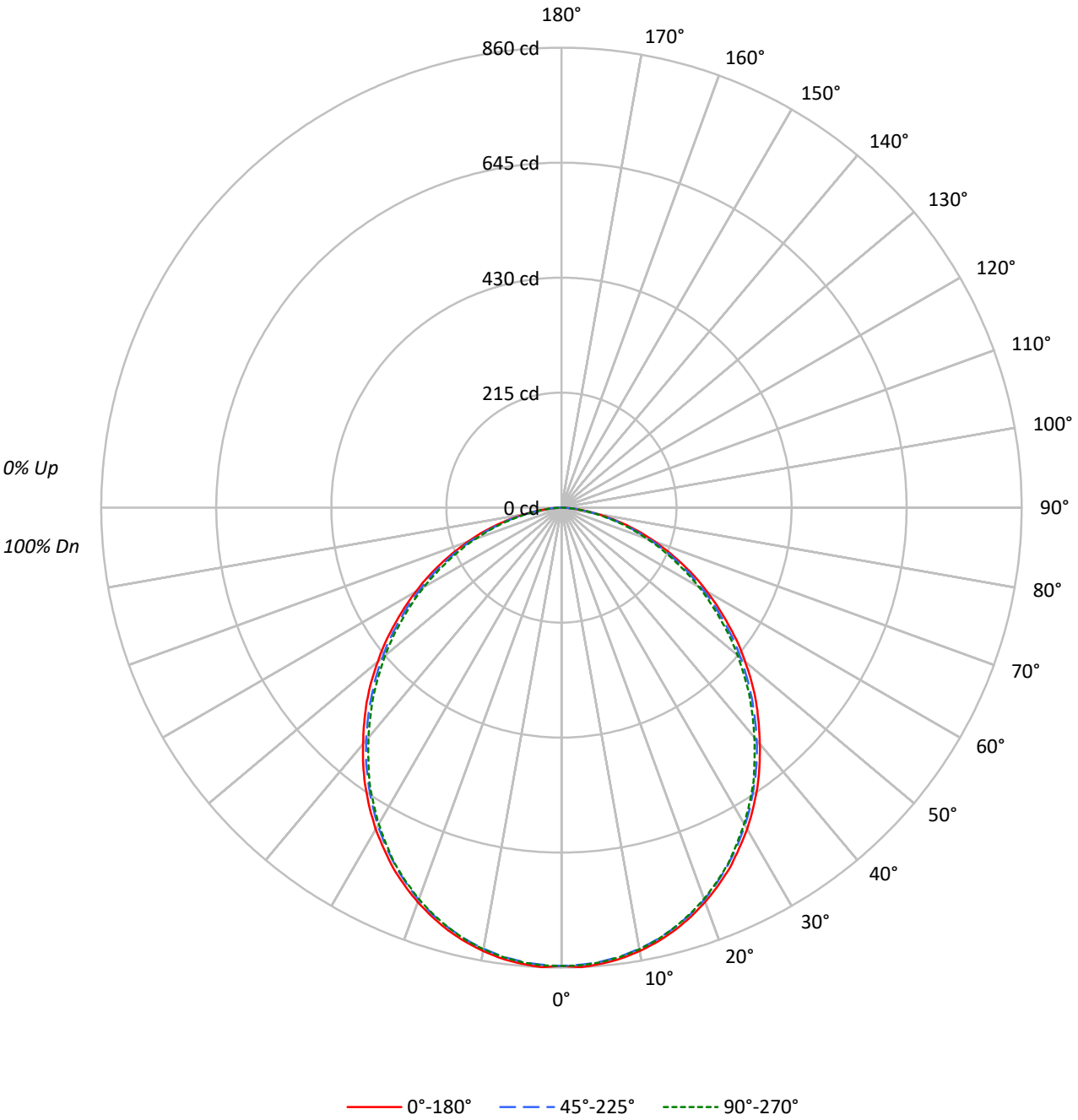
Scaled Data Report

TEST NUMBER: P1215522
CATALOG NUMBER: 24-ID2-20-CFR1-L835-U

Luminous Intensity Polar Plot



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TEST NUMBER: P1215522
CATALOG NUMBER: 24-ID2-20-CFR1-L835-U

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	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1153	1153	1153
5°	1156	1151	1152
10°	1150	1145	1146
15°	1140	1133	1133
20°	1124	1117	1115
25°	1104	1094	1092
30°	1078	1066	1061
35°	1048	1033	1028
40°	1013	997	985
45°	979	957	945
50°	938	915	900
55°	893	867	848
60°	845	818	798
65°	794	761	735
70°	731	697	669
75°	651	613	592
80°	532	502	477
85°	374	364	337

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 979 cd/sqm

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Scaled Data Report

TEST NUMBER: P1215522
CATALOG NUMBER: 24-ID2-20-CFR1-L835-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	3.8
10°-20°	229.5	10.6
20°-30°	339.4	15.7
30°-40°	393.8	18.3
40°-50°	388.7	18.0
50°-60°	331.7	15.4
60°-70°	237.8	11.0
70°-80°	126.0	5.8
80°-90°	29.0	1.3
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°	649.9	30.1
0°-40°	1043.7	48.4
0°-60°	1764.2	81.8
0°-90°	2157.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2157.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	857	857	857	857	857	
5°	856	853	852	851	853	81
15°	818	815	814	812	813	231
25°	744	740	737	734	736	342
35°	638	634	629	626	626	399
45°	514	510	503	498	497	396
55°	380	376	370	364	362	341
65°	249	246	239	235	231	247
75°	125	122	118	115	114	133
85°	24	25	24	22	22	30
90°	0	0	0	0	0	

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TEST NUMBER: P1215522
CATALOG NUMBER: 24-ID2-20-CFR1-L835-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*857.0*	857.0	857.0	857.0	857.0
2.5°	*859.9*	*856.7*	*855.5*	*854.6*	*856.4*
5°	*856.1*	853.4	852.3	851.1	853.2
7.5°	*850.5*	847.6	846.1	845.2	847.0
10°	*842.0*	839.3	837.8	836.9	838.7
12.5°	*831.3*	828.7	826.9	826.0	827.8
15°	*818.4*	815.1	813.7	812.2	813.4
17.5°	*802.5*	800.1	798.3	796.0	797.2
20°	*784.8*	781.8	780.1	778.0	778.6
22.5°	*765.0*	762.7	759.4	757.7	757.7
25°	*743.8*	740.3	736.7	734.4	735.6
27.5°	*718.8*	715.8	712.0	708.7	709.0
30°	*694.0*	690.2	686.1	683.1	682.8
32.5°	*666.6*	664.0	658.1	655.1	654.2
35°	*638.3*	634.5	628.9	625.6	625.6
37.5°	*608.3*	605.0	599.4	594.7	592.6
40°	*576.7*	573.5	567.6	562.6	560.8
42.5°	*545.5*	543.7	535.2	531.0	528.4
45°	*514.5*	509.5	502.8	498.0	496.6
47.5°	*482.1*	477.7	470.0	464.7	462.4
50°	*447.9*	445.0	437.3	430.8	430.0
52.5°	*415.5*	410.5	404.6	397.5	396.4
55°	*380.5*	376.3	369.8	364.5	361.6
57.5°	*347.4*	344.2	337.7	330.7	329.2
60°	*313.9*	310.6	303.8	298.5	296.5
62.5°	*282.3*	277.6	272.3	265.5	263.5
65°	*249.3*	245.8	239.0	234.6	231.0
67.5°	*216.3*	213.7	208.1	203.9	201.6
70°	*185.7*	182.4	177.1	172.1	170.0
72.5°	*155.6*	151.5	146.5	142.9	142.0
75°	*125.2*	122.0	117.9	114.9	113.8
77.5°	*95.5*	94.3	90.8	87.5	86.3
80°	*68.7*	67.8	64.8	62.8	61.6
82.5°	*44.5*	43.9	42.7	41.0	40.7
85°	*24.2*	24.8	23.6	22.4	21.8
87.5°	*8.5*	8.3	8.0	7.7	7.1
90°	*0.0*	0.0	0.0	0.0	0.0

TEST NUMBER: P1215522
CATALOG NUMBER: 24-ID2-20-CFR1-L835-U

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	11.60	13.19	11.96	13.50	13.82	11.30	12.89	11.67	13.21	13.52
	3H	13.24	14.68	13.62	15.01	15.37	12.89	14.32	13.27	14.65	15.01
	4H	13.83	15.18	14.23	15.53	15.90	13.44	14.79	13.84	15.13	15.51
	6H	14.21	15.46	14.62	15.82	16.22	13.79	15.04	14.20	15.40	15.79
	8H	14.31	15.50	14.73	15.89	16.29	13.88	15.07	14.30	15.46	15.86
	12H	14.36	15.50	14.79	15.88	16.31	13.92	15.06	14.35	15.45	15.88
4H	2H	12.14	13.49	12.54	13.84	14.21	11.90	13.25	12.30	13.60	13.98
	3H	14.00	15.12	14.41	15.52	15.92	13.70	14.82	14.11	15.22	15.62
	4H	14.70	15.71	15.13	16.13	16.57	14.36	15.37	14.79	15.79	16.22
	6H	15.19	16.08	15.65	16.52	16.98	14.81	15.70	15.27	16.14	16.60
	8H	15.33	16.16	15.79	16.60	17.07	14.94	15.76	15.40	16.21	16.67
	12H	15.41	16.15	15.89	16.63	17.10	15.01	15.75	15.49	16.23	16.70
8H	4H	14.93	15.76	15.39	16.20	16.67	14.62	15.45	15.09	15.90	16.36
	6H	15.52	16.21	16.02	16.70	17.17	15.17	15.86	15.67	16.35	16.82
	8H	15.71	16.33	16.22	16.83	17.32	15.35	15.96	15.86	16.47	16.96
	12H	15.84	16.39	16.35	16.88	17.44	15.47	16.01	15.98	16.50	17.06
12H	4H	14.94	15.69	15.43	16.16	16.63	14.65	15.39	15.13	15.86	16.33
	6H	15.55	16.16	16.06	16.67	17.16	15.21	15.82	15.72	16.33	16.82
	8H	15.78	16.32	16.29	16.81	17.38	15.43	15.97	15.94	16.46	17.02

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LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Corelite

Report Number: SP1-2506-458-1

Test Date: 07/23/2025

Luminaire Tested: 22ID2-55-CFR1-L835-U

Data in this report applies to families of products including 22ID2-55-CFR1-L835-U

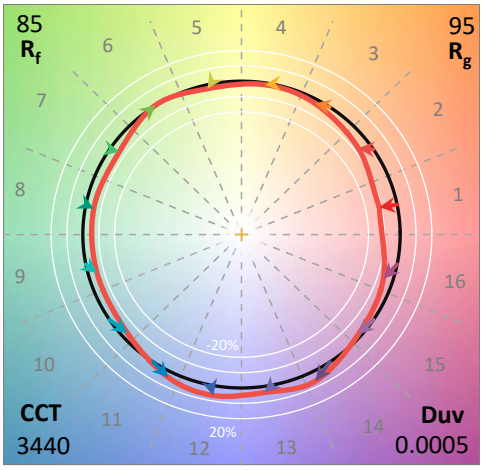
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2506-458-1
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	08/27/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Corelite
Catalog Number:	**22ID2-55-CFR1-L835-U**
Description:	2X2 CGTX WITH INDEPTH FRAME AND CFR1 LENS - 5500 LUMEN 3500K 80CRI

Spectral Parameters

CCT (K):	3440	CRI (Ra):	84.2		
CIE u':	0.2370	R1:	82.8	R9:	13.6
CIE v':	0.5132	R2:	91.7	R10:	80.1
Duv:	0.0005	R3:	96.7	R11:	81.1
CIE x:	0.4093	R4:	81.9	R12:	65.8
CIE y:	0.3940	R5:	82.6	R13:	85.2
CIE z:	0.1967	R6:	88.8	R14:	98.7
Peak Wavelength (nm):	599	R7:	85.0	R15:	76.2
Dominant Wavelength (nm):	580	R8:	63.7		
Purity:	41.09375				
Rf:	84.9				
Rg:	94.6				



Test Conditions

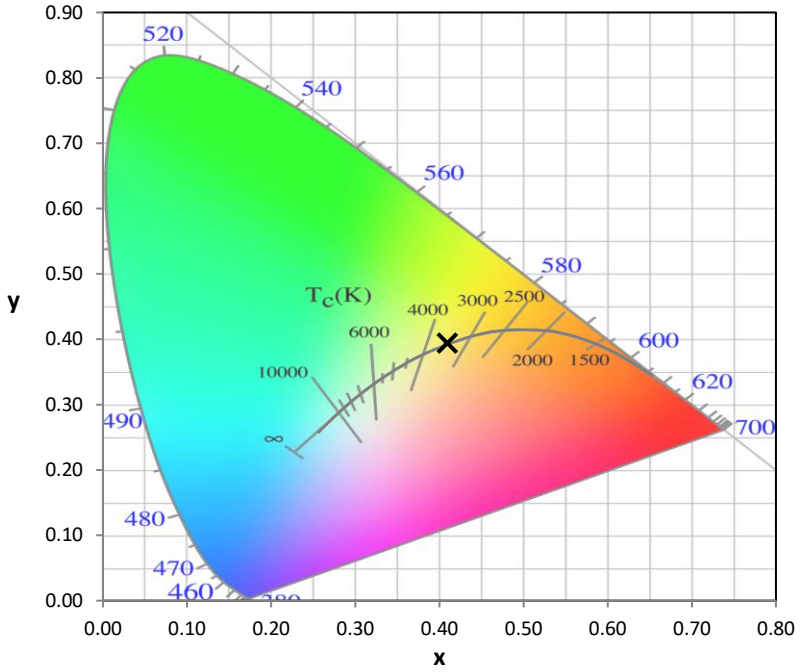
Stabilization Time:	36M
Operation Time:	1H 36M
Sphere Temperature (°C):	24.0

REPORT NUMBER: SP1-2506-458-1

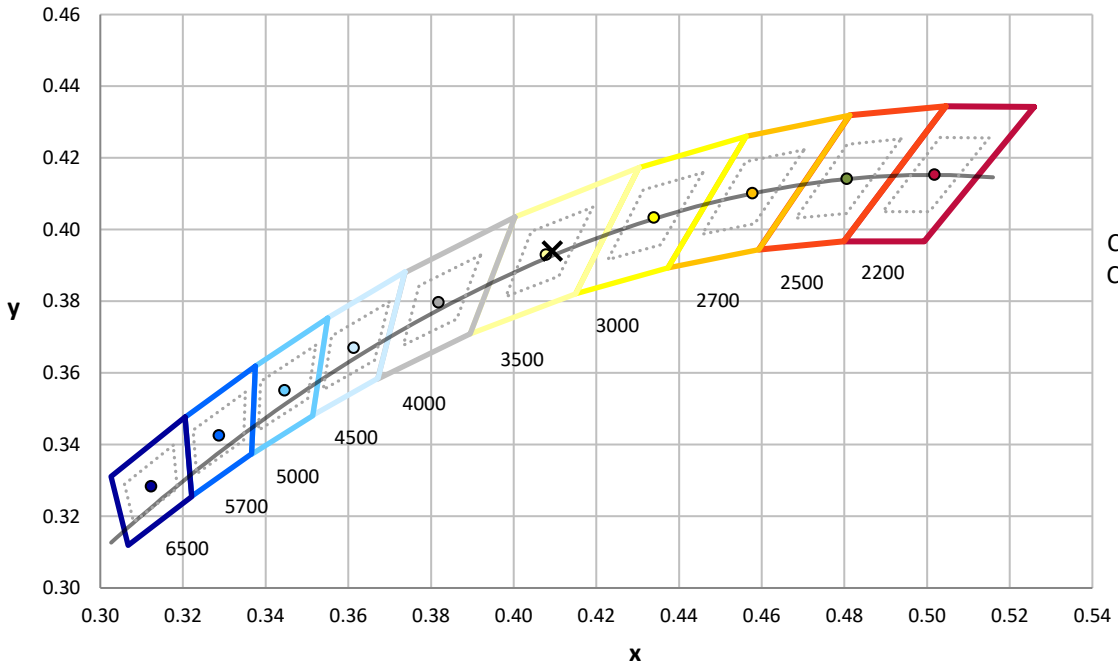
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2506-458-1

CIE 1931 Chromaticity Diagram



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



CCT = 3440K
CIE x = 0.4093
CIE y = 0.3940
Duv = 0.0005

Point lies inside the ANSI 3500K 4-step quadrangle

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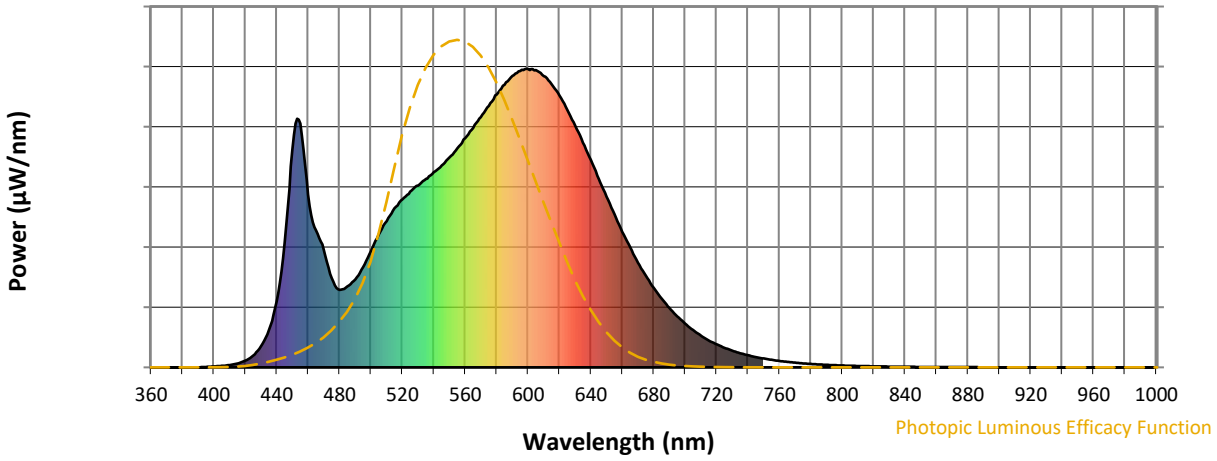
Photopic Flux vs. Wavelength

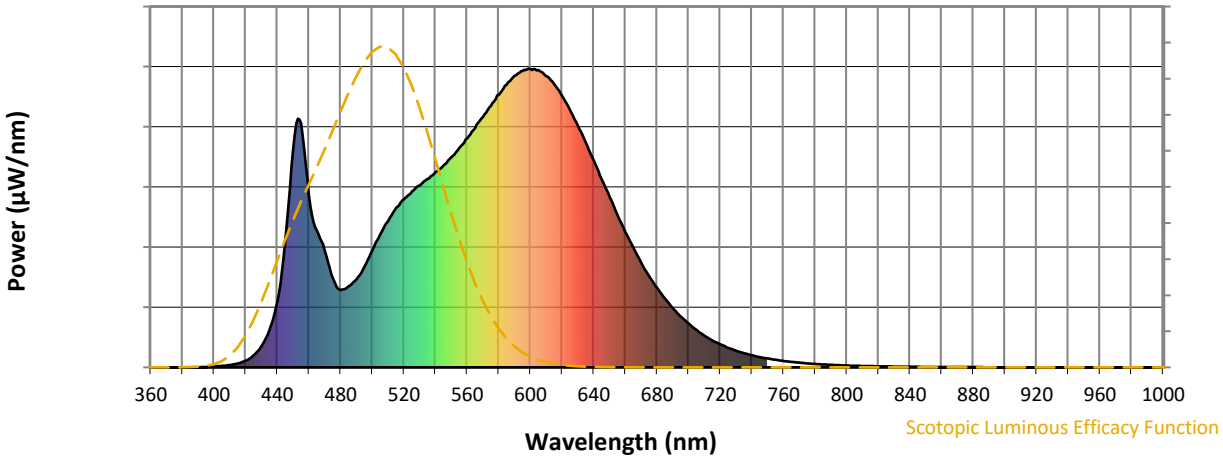


Photopic Lumens: NR

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	295	NR	620	910	NR	750	30	NR	880	1	NR
365	0	NR	495	335	NR	625	862	NR	755	25	NR	885	1	NR
370	0	NR	500	390	NR	630	809	NR	760	21	NR	890	1	NR
375	0	NR	505	445	NR	635	752	NR	765	18	NR	895	0	NR
380	0	NR	510	490	NR	640	694	NR	770	16	NR	900	0	NR
385	0	NR	515	532	NR	645	630	NR	775	13	NR	905	0	NR
390	0	NR	520	563	NR	650	571	NR	780	12	NR	910	0	NR
395	2	NR	525	588	NR	655	512	NR	785	10	NR	915	0	NR
400	3	NR	530	609	NR	660	453	NR	790	8	NR	920	0	NR
405	5	NR	535	631	NR	665	401	NR	795	7	NR	925	0	NR
410	8	NR	540	654	NR	670	351	NR	800	6	NR	930	0	NR
415	13	NR	545	677	NR	675	306	NR	805	5	NR	935	0	NR
420	23	NR	550	702	NR	680	267	NR	810	5	NR	940	0	NR
425	40	NR	555	734	NR	685	230	NR	815	4	NR	945	0	NR
430	70	NR	560	767	NR	690	199	NR	820	4	NR	950	0	NR
435	126	NR	565	802	NR	695	171	NR	825	3	NR	955	0	NR
440	221	NR	570	838	NR	700	146	NR	830	3	NR	960	0	NR
445	418	NR	575	875	NR	705	125	NR	835	2	NR	965	0	NR
450	729	NR	580	913	NR	710	107	NR	840	2	NR	970	0	NR
455	816	NR	585	946	NR	715	90	NR	845	2	NR	975	0	NR
460	578	NR	590	976	NR	720	77	NR	850	1	NR	980	0	NR
465	458	NR	595	992	NR	725	66	NR	855	1	NR	985	0	NR
470	390	NR	600	999	NR	730	56	NR	860	1	NR	990	0	NR
475	299	NR	605	995	NR	735	47	NR	865	1	NR	995	0	NR
480	260	NR	610	975	NR	740	40	NR	870	1	NR	1000	0	NR
485	271	NR	615	948	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2506-458-1

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.53**

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	295	NR	620	910	NR	750	30	NR	880	1	NR
365	0	NR	495	335	NR	625	862	NR	755	25	NR	885	1	NR
370	0	NR	500	390	NR	630	809	NR	760	21	NR	890	1	NR
375	0	NR	505	445	NR	635	752	NR	765	18	NR	895	0	NR
380	0	NR	510	490	NR	640	694	NR	770	16	NR	900	0	NR
385	0	NR	515	532	NR	645	630	NR	775	13	NR	905	0	NR
390	0	NR	520	563	NR	650	571	NR	780	12	NR	910	0	NR
395	2	NR	525	588	NR	655	512	NR	785	10	NR	915	0	NR
400	3	NR	530	609	NR	660	453	NR	790	8	NR	920	0	NR
405	5	NR	535	631	NR	665	401	NR	795	7	NR	925	0	NR
410	8	NR	540	654	NR	670	351	NR	800	6	NR	930	0	NR
415	13	NR	545	677	NR	675	306	NR	805	5	NR	935	0	NR
420	23	NR	550	702	NR	680	267	NR	810	5	NR	940	0	NR
425	40	NR	555	734	NR	685	230	NR	815	4	NR	945	0	NR
430	70	NR	560	767	NR	690	199	NR	820	4	NR	950	0	NR
435	126	NR	565	802	NR	695	171	NR	825	3	NR	955	0	NR
440	221	NR	570	838	NR	700	146	NR	830	3	NR	960	0	NR
445	418	NR	575	875	NR	705	125	NR	835	2	NR	965	0	NR
450	729	NR	580	913	NR	710	107	NR	840	2	NR	970	0	NR
455	816	NR	585	946	NR	715	90	NR	845	2	NR	975	0	NR
460	578	NR	590	976	NR	720	77	NR	850	1	NR	980	0	NR
465	458	NR	595	992	NR	725	66	NR	855	1	NR	985	0	NR
470	390	NR	600	999	NR	730	56	NR	860	1	NR	990	0	NR
475	299	NR	605	995	NR	735	47	NR	865	1	NR	995	0	NR
480	260	NR	610	975	NR	740	40	NR	870	1	NR	1000	0	NR
485	271	NR	615	948	NR	745	34	NR	875	1	NR			

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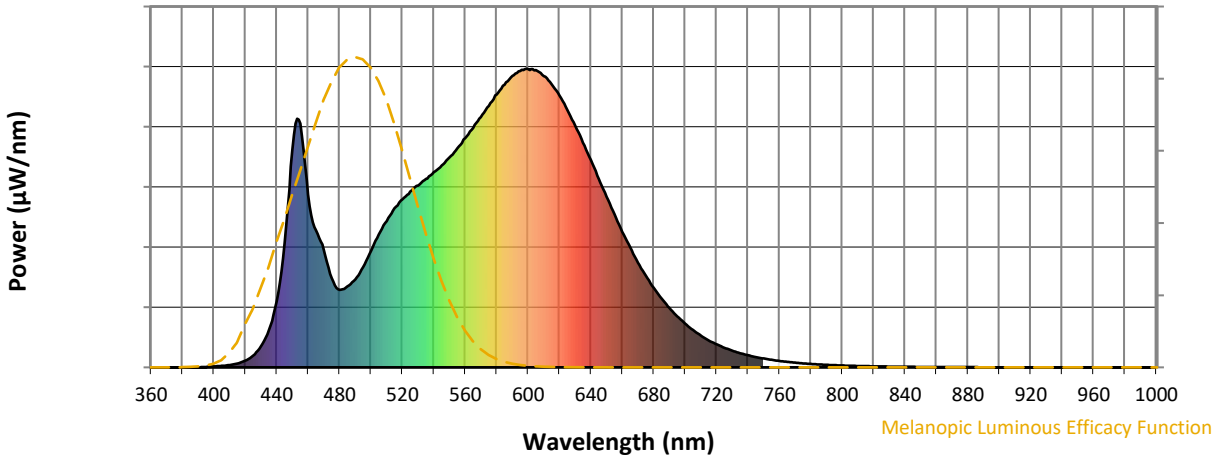
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.07**

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	295	NR	620	910	NR	750	30	NR	880	1	NR
365	0	NR	495	335	NR	625	862	NR	755	25	NR	885	1	NR
370	0	NR	500	390	NR	630	809	NR	760	21	NR	890	1	NR
375	0	NR	505	445	NR	635	752	NR	765	18	NR	895	0	NR
380	0	NR	510	490	NR	640	694	NR	770	16	NR	900	0	NR
385	0	NR	515	532	NR	645	630	NR	775	13	NR	905	0	NR
390	0	NR	520	563	NR	650	571	NR	780	12	NR	910	0	NR
395	2	NR	525	588	NR	655	512	NR	785	10	NR	915	0	NR
400	3	NR	530	609	NR	660	453	NR	790	8	NR	920	0	NR
405	5	NR	535	631	NR	665	401	NR	795	7	NR	925	0	NR
410	8	NR	540	654	NR	670	351	NR	800	6	NR	930	0	NR
415	13	NR	545	677	NR	675	306	NR	805	5	NR	935	0	NR
420	23	NR	550	702	NR	680	267	NR	810	5	NR	940	0	NR
425	40	NR	555	734	NR	685	230	NR	815	4	NR	945	0	NR
430	70	NR	560	767	NR	690	199	NR	820	4	NR	950	0	NR
435	126	NR	565	802	NR	695	171	NR	825	3	NR	955	0	NR
440	221	NR	570	838	NR	700	146	NR	830	3	NR	960	0	NR
445	418	NR	575	875	NR	705	125	NR	835	2	NR	965	0	NR
450	729	NR	580	913	NR	710	107	NR	840	2	NR	970	0	NR
455	816	NR	585	946	NR	715	90	NR	845	2	NR	975	0	NR
460	578	NR	590	976	NR	720	77	NR	850	1	NR	980	0	NR
465	458	NR	595	992	NR	725	66	NR	855	1	NR	985	0	NR
470	390	NR	600	999	NR	730	56	NR	860	1	NR	990	0	NR
475	299	NR	605	995	NR	735	47	NR	865	1	NR	995	0	NR
480	260	NR	610	975	NR	740	40	NR	870	1	NR	1000	0	NR
485	271	NR	615	948	NR	745	34	NR	875	1	NR			

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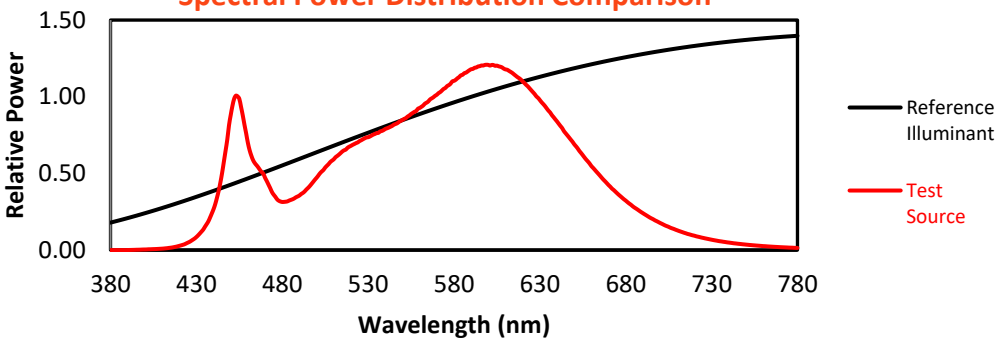
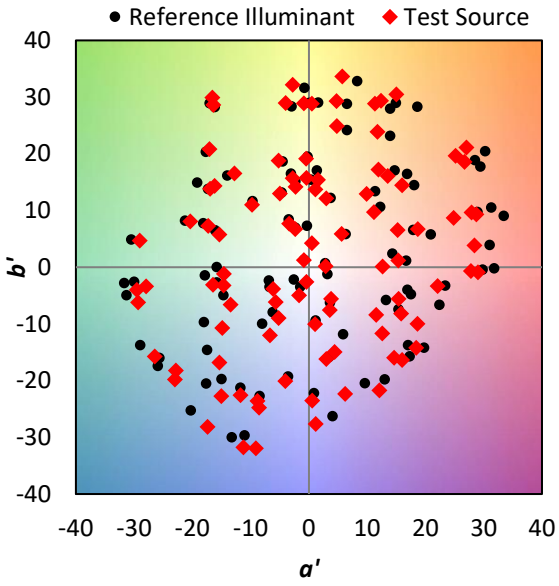
Summary

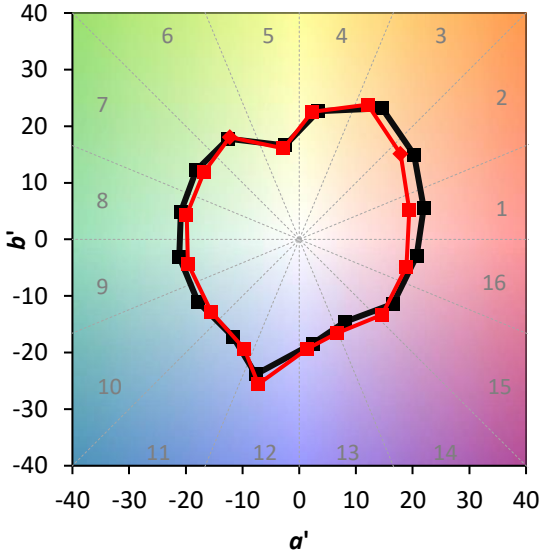
R_f = 84.9
R_g = 94.6
CIE R_a = 84.2
R_9 = 13.6

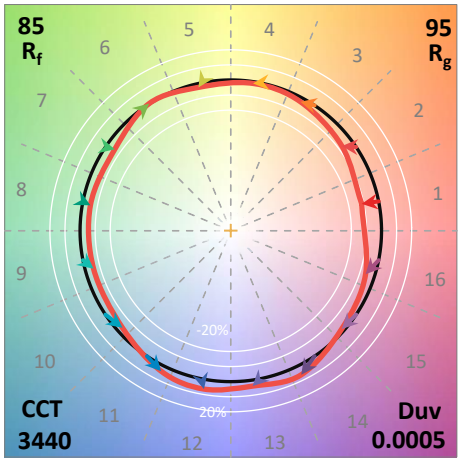
Spectral Power Distribution Comparison

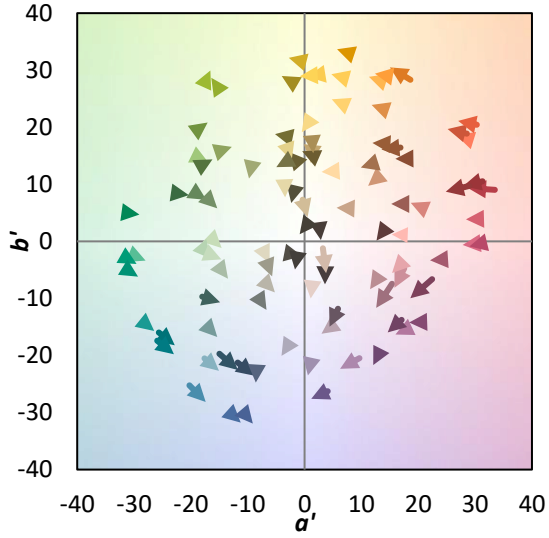


Color Vector Graphics









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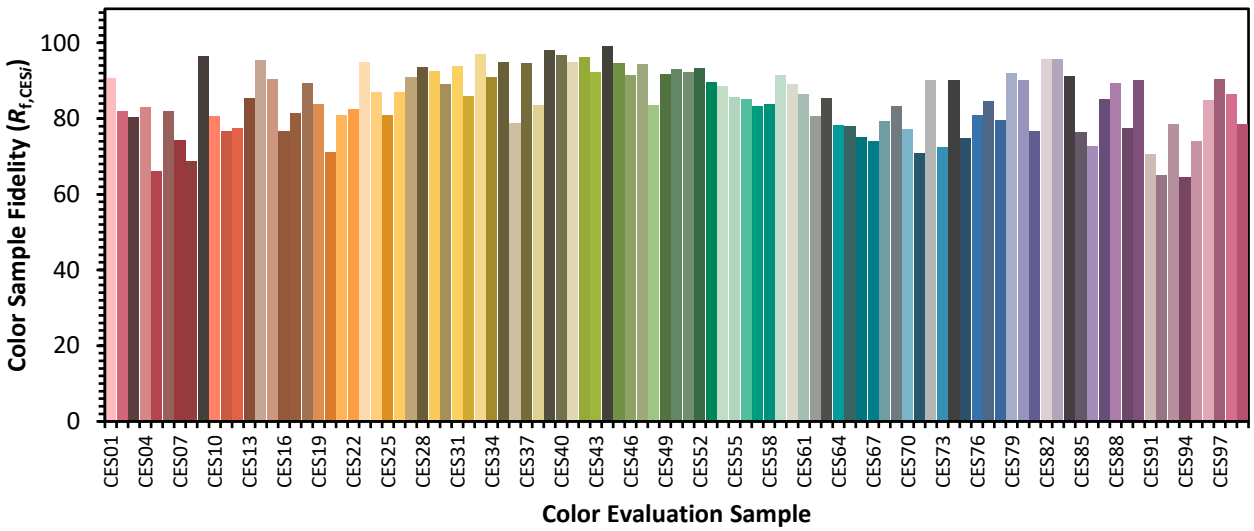
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 87	CES51 = 92	CES76 = 81
CES02 = 62	CES27 = 91	CES52 = 93	CES77 = 85
CES03 = 31	CES28 = 94	CES53 = 90	CES78 = 80
CES04 = 70	CES29 = 92	CES54 = 89	CES79 = 92
CES05 = 49	CES30 = 89	CES55 = 86	CES80 = 90
CES06 = 51	CES31 = 94	CES56 = 85	CES81 = 77
CES07 = 41	CES32 = 86	CES57 = 83	CES82 = 96
CES08 = 40	CES33 = 97	CES58 = 84	CES83 = 96
CES09 = 29	CES34 = 91	CES59 = 91	CES84 = 91
CES10 = 75	CES35 = 95	CES60 = 89	CES85 = 76
CES11 = 58	CES36 = 79	CES61 = 87	CES86 = 73
CES12 = 64	CES37 = 95	CES62 = 81	CES87 = 85
CES13 = 43	CES38 = 84	CES63 = 85	CES88 = 89
CES14 = 74	CES39 = 98	CES64 = 78	CES89 = 78
CES15 = 71	CES40 = 97	CES65 = 78	CES90 = 90
CES16 = 47	CES41 = 95	CES66 = 75	CES91 = 71
CES17 = 50	CES42 = 96	CES67 = 74	CES92 = 65
CES18 = 56	CES43 = 92	CES68 = 79	CES93 = 79
CES19 = 72	CES44 = 99	CES69 = 83	CES94 = 64
CES20 = 66	CES45 = 95	CES70 = 77	CES95 = 74
CES21 = 86	CES46 = 91	CES71 = 71	CES96 = 85
CES22 = 78	CES47 = 94	CES72 = 90	CES97 = 90
CES23 = 92	CES48 = 83	CES73 = 72	CES98 = 86
CES24 = 90	CES49 = 92	CES74 = 90	CES99 = 79
CES25 = 72	CES50 = 93	CES75 = 75	



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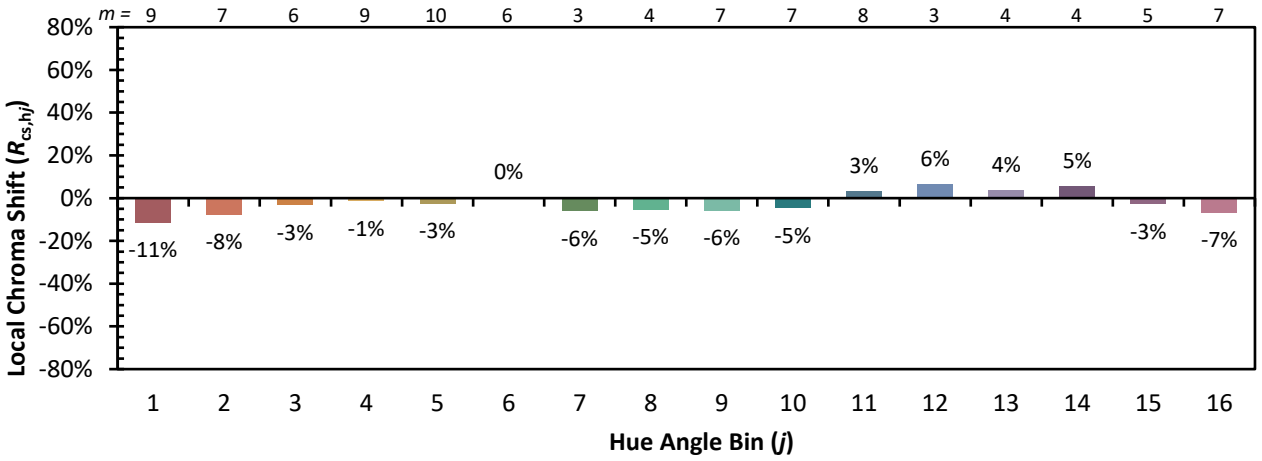
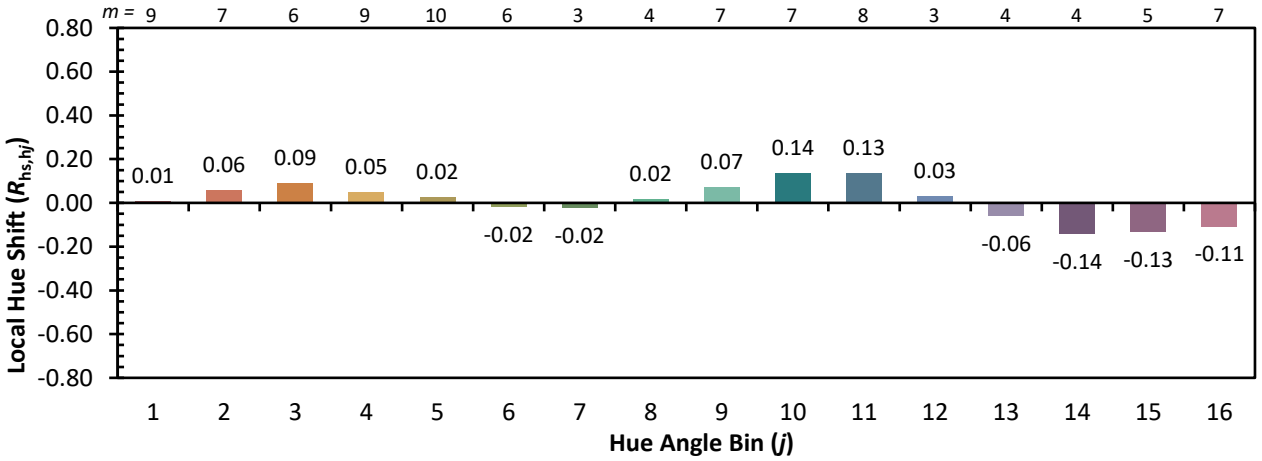
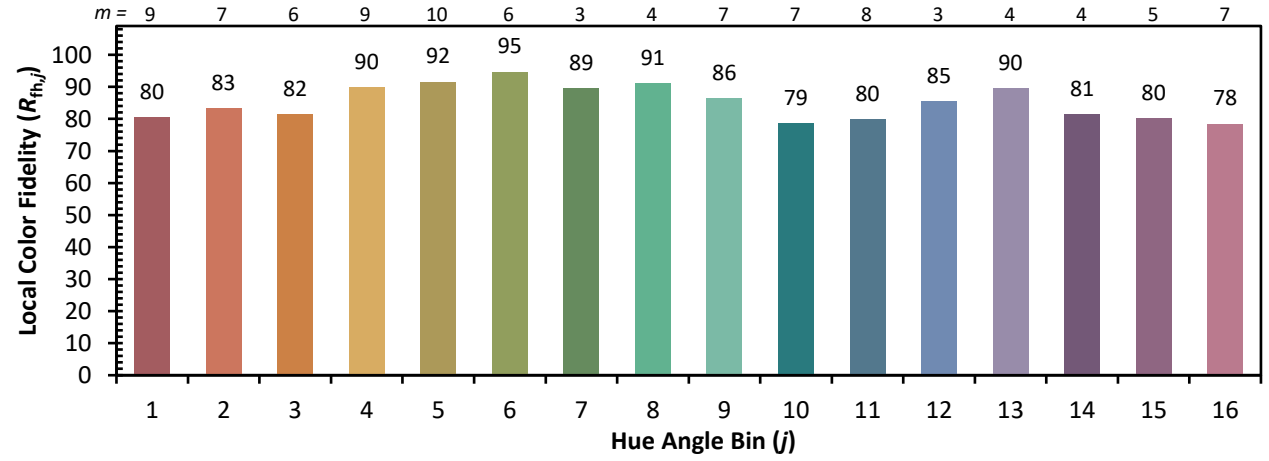
Color Rendition by Hue-Angle Bin







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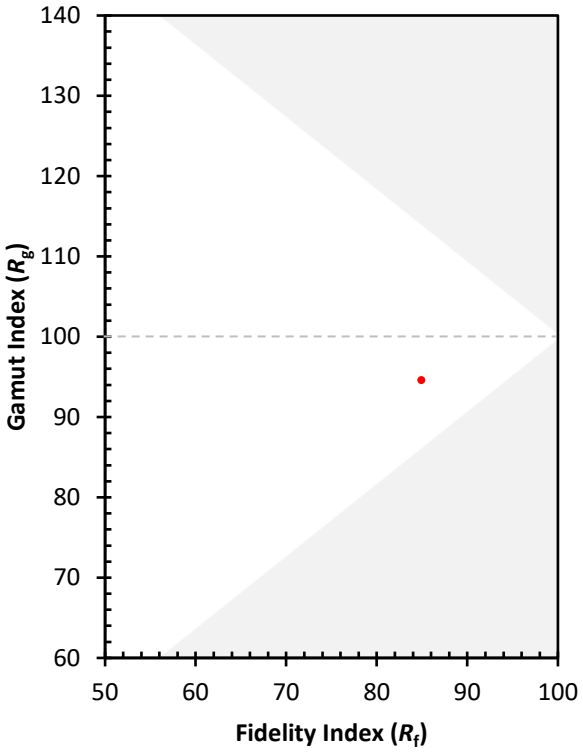
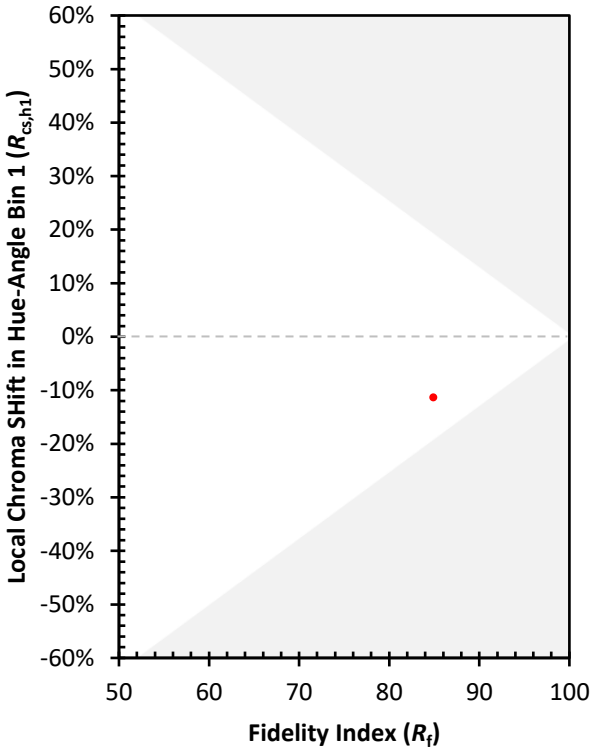
Measure Comparisons





(END OF REPORT)