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: FAIL-SAFE

Report Number: P1357320

Luminaire Tested: 6ASL4-15HE-2-R63-UNV

Issue Date: 2/17/2026

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:	P1357320
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-7)
Test Lab:	INNOVATION CENTER
Issue Date:	2/17/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	FAIL-SAFE
Catalog Number:	6ASL4-15HE-2-R63-UNV
Description:	6FT 1500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND R63 LEDS 2 ROW
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2399.0 lumens
Efficiency:	N/A
Efficacy:	41.6 lumens/watt
Spacing Criteria (0/90/45):	1.21 / 1.3 / 1.4
Luminous Opening:	Rectangular w/ Sides (W: 0.33' x L: 5.98' x H: 0.1')
CIE Type:	Direct

Input Watts (W):	57.7
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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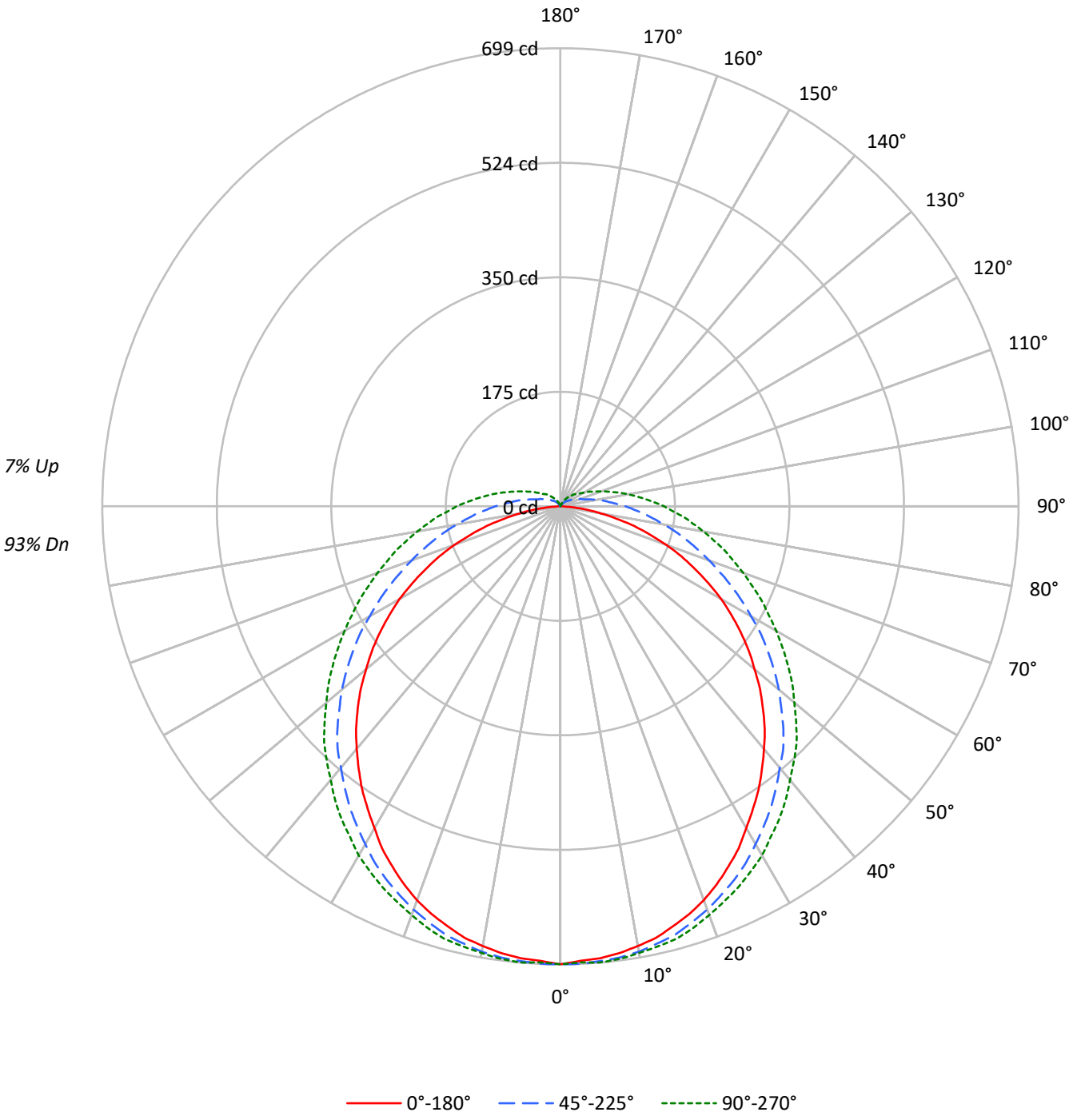
Luminous Intensity Polar Plot



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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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	79	77	74
2	95	86	79	72	92	84	77	71	79	73	68	74	70	65	70	66	63	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	55	62	57	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	28
8	58	44	35	29	56	43	34	29	41	33	28	39	32	28	37	31	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	29	24	22
10	50	37	29	24	49	36	28	23	35	28	23	33	27	22	32	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3774	3774	3774
5°	3747	3701	3688
10°	3724	3635	3598
15°	3693	3562	3526
20°	3652	3469	3424
25°	3585	3378	3338
30°	3501	3273	3251
35°	3435	3176	3150
40°	3359	3071	3044
45°	3283	2981	2967
50°	3184	2860	2852
55°	3089	2732	2761
60°	2973	2586	2665
65°	2788	2452	2589
70°	2583	2326	2521
75°	2283	2231	2498
80°	1803	2147	2489
85°	1137	2155	2562

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3283 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.3	2.8
10°-20°	190.5	7.9
20°-30°	288.7	12.0
30°-40°	349.1	14.6
40°-50°	368.1	15.3
50°-60°	343.5	14.3
60°-70°	283.6	11.8
70°-80°	205.7	8.6
80°-90°	130.0	5.4
90°-100°	77.6	3.2
100°-110°	44.5	1.9
110°-120°	25.3	1.1
120°-130°	14.4	0.6
130°-140°	7.8	0.3
140°-150°	3.4	0.1
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	545.4	22.7
0°-40°	894.5	37.3
0°-60°	1606.1	66.9
0°-90°	2225.4	92.8
90°-120°	147.3	6.1
90°-150°	173.0	7.2
90°-180°	174.0	7.3
0°-180°	2399.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	699	699	699	699	699	
5°	692	699	697	697	699	66
15°	664	672	677	679	683	187
25°	606	615	628	637	642	279
35°	527	541	560	576	582	330
45°	437	455	481	501	510	337
55°	336	356	387	413	424	300
65°	226	250	288	323	338	225
75°	116	147	200	242	259	122
85°	22	68	128	171	189	27
90°	0	42	99	141	158	1
95°	0	26	75	114	130	0
105°	0	9	42	72	84	0
115°	0	4	24	44	53	0
125°	0	2	15	29	33	0
135°	0	0	9	18	22	0
145°	0	0	4	11	13	0
155°	0	0	0	2	4	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	

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TEST NUMBER: P1357320
CATALOG NUMBER: 6ASL4-15HE-2-R63-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	698.8	*698.8*	698.8	698.8	698.8
2.5°	*694.4*	*701.0*	*698.8*	*696.6*	*696.6*
5°	692.2	*698.8*	696.6	696.6	698.8
7.5°	687.8	*694.4*	694.4	694.4	696.6
10°	681.2	*690.0*	690.0	690.0	692.2
12.5°	674.6	*681.2*	683.4	685.6	687.8
15°	663.6	*672.4*	676.8	679.0	683.4
17.5°	652.7	*659.2*	665.8	672.4	674.6
20°	639.5	*648.3*	654.9	661.4	663.6
22.5°	624.1	*632.9*	641.7	648.3	652.7
25°	606.5	*615.3*	628.5	637.3	641.7
27.5°	588.9	*597.7*	613.1	624.1	628.5
30°	567.0	*580.1*	595.5	608.7	615.3
32.5°	547.2	*560.4*	577.9	593.3	597.7
35°	527.4	*540.6*	560.4	575.7	582.3
37.5°	505.4	*520.8*	540.6	558.2	564.8
40°	483.4	*498.8*	520.8	540.6	545.0
42.5°	461.5	*476.9*	503.2	520.8	527.4
45°	437.3	*454.9*	481.3	501.0	509.8
47.5°	413.1	*430.7*	457.1	479.1	487.8
50°	386.8	*406.5*	435.1	457.1	465.9
52.5°	362.6	*382.4*	410.9	435.1	446.1
55°	336.2	*356.0*	386.8	413.1	424.1
57.5°	309.8	*329.6*	362.6	391.2	402.1
60°	283.5	*303.3*	336.2	369.2	380.2
62.5°	254.9	*276.9*	312.0	345.0	358.2
65°	226.3	*250.5*	287.9	323.0	338.4
67.5°	200.0	*224.1*	263.7	303.3	316.4
70°	171.4	*197.8*	241.7	281.3	296.7
72.5°	142.8	*171.4*	219.7	261.5	276.9
75°	116.5	*147.2*	200.0	241.7	259.3
77.5°	87.9	*125.3*	180.2	224.1	239.5
80°	63.7	*103.3*	160.4	206.6	221.9
82.5°	41.8	*83.5*	142.8	189.0	204.4
85°	22.0	*68.1*	127.5	171.4	189.0
87.5°	6.6	*52.7*	112.1	156.0	171.4
90°	0.0	*41.8*	98.9	140.6	158.2
92.5°	0.0	*33.0*	85.7	127.5	142.8
95°	0.0	*26.4*	74.7	114.3	129.7
97.5°	0.0	*22.0*	65.9	103.3	116.5
100°	0.0	*17.6*	57.1	92.3	105.5
102.5°	0.0	*13.2*	48.3	81.3	94.5
105°	0.0	*8.8*	41.8	72.5	83.5
107.5°	0.0	*6.6*	35.2	63.7	74.7
110°	0.0	*6.6*	33.0	54.9	65.9

TEST NUMBER: P1357320
CATALOG NUMBER: 6ASL4-15HE-2-R63-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	*4.4*	28.6	50.5	59.3
115°	0.0	*4.4*	24.2	43.9	52.7
117.5°	0.0	*4.4*	22.0	39.6	48.3
120°	0.0	*4.4*	19.8	35.2	41.8
122.5°	0.0	*2.2*	17.6	30.8	37.4
125°	0.0	*2.2*	15.4	28.6	33.0
127.5°	0.0	*2.2*	13.2	26.4	30.8
130°	0.0	*2.2*	13.2	24.2	28.6
132.5°	0.0	*0.0*	11.0	22.0	26.4
135°	0.0	*0.0*	8.8	17.6	22.0
137.5°	0.0	*0.0*	8.8	15.4	19.8
140°	0.0	*0.0*	6.6	15.4	17.6
142.5°	0.0	*0.0*	4.4	13.2	15.4
145°	0.0	*0.0*	4.4	11.0	13.2
147.5°	0.0	*0.0*	2.2	8.8	11.0
150°	0.0	*0.0*	2.2	6.6	8.8
152.5°	0.0	*0.0*	0.0	4.4	6.6
155°	0.0	*0.0*	0.0	2.2	4.4
157.5°	0.0	*0.0*	0.0	0.0	2.2
160°	0.0	*0.0*	0.0	0.0	0.0
162.5°	0.0	*0.0*	0.0	0.0	0.0
165°	0.0	*0.0*	0.0	0.0	0.0
167.5°	0.0	*0.0*	0.0	0.0	0.0
170°	0.0	*0.0*	0.0	0.0	0.0
172.5°	0.0	*0.0*	0.0	0.0	0.0
175°	0.0	*0.0*	0.0	0.0	0.0
177.5°	0.0	*0.0*	0.0	0.0	0.0
180°	0.0	*0.0*	0.0	0.0	0.0

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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	13.94	15.47	14.41	15.93	16.42	16.02	17.56	16.50	18.02	18.51
	3H	15.44	16.84	15.92	17.31	17.84	18.49	19.89	18.97	20.36	20.89
	4H	15.92	17.25	16.42	17.73	18.28	19.71	21.04	20.21	21.52	22.07
	6H	16.19	17.43	16.71	17.93	18.49	21.00	22.23	21.52	22.74	23.30
	8H	16.25	17.43	16.78	17.96	18.52	21.67	22.86	22.20	23.38	23.95
	12H	16.26	17.40	16.80	17.92	18.51	22.43	23.56	22.96	24.08	24.68
4H	2H	14.82	16.15	15.33	16.64	17.18	16.45	17.78	16.96	18.27	18.81
	3H	16.56	17.70	17.08	18.23	18.79	19.15	20.28	19.67	20.81	21.38
	4H	17.17	18.21	17.71	18.75	19.35	20.54	21.58	21.08	22.12	22.72
	6H	17.57	18.49	18.13	19.06	19.67	22.03	22.94	22.59	23.51	24.12
	8H	17.67	18.53	18.23	19.10	19.72	22.81	23.67	23.38	24.24	24.86
	12H	17.72	18.50	18.30	19.10	19.73	23.69	24.47	24.28	25.07	25.70
8H	4H	17.87	18.74	18.44	19.30	19.93	20.76	21.62	21.33	22.19	22.82
	6H	18.46	19.19	19.06	19.80	20.43	22.42	23.15	23.02	23.76	24.39
	8H	18.65	19.31	19.26	19.93	20.57	23.35	24.01	23.96	24.63	25.27
	12H	18.77	19.36	19.38	19.97	20.68	24.41	25.00	25.02	25.61	26.32
12H	4H	18.08	18.86	18.66	19.46	20.09	20.77	21.55	21.36	22.15	22.78
	6H	18.77	19.43	19.38	20.05	20.69	22.46	23.12	23.07	23.74	24.38
	8H	19.06	19.65	19.67	20.25	20.96	23.46	24.05	24.07	24.65	25.36

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

Report Prepared for

Cooper Lighting Solutions

Fail-Safe

Report Number: SP1-2511-597-7

Test Date: 01/21/2026

Luminaire Tested: 4ASL-2-R630-UNV-OPL-1_600mA

Data in this report applies to families of products including 4ASL

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

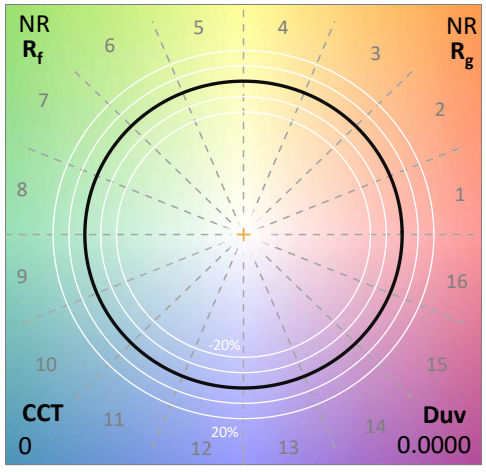
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2511-597-7
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	01/29/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Fail-Safe
Catalog Number:	**4ASL-2-R630-UNV-OPL-1_600mA**
Description:	2foot 4ASL LED LUMINAIRE WITH OPL LENS AND RED 630NM LEDS with 1 rows at 600mA

Spectral Parameters

CCT (K):	0	CRI (Ra):	0.0		
CIE u':	0.5395	R1:	0.0	R9:	0.0
CIE v':	0.5190	R2:	0.0	R10:	0.0
Duv:	0.0000	R3:	0.0	R11:	0.0
CIE x:	0.7004	R4:	0.0	R12:	0.0
CIE y:	0.2995	R5:	0.0	R13:	0.0
CIE z:	0.0001	R6:	0.0	R14:	0.0
Peak Wavelength (nm):	638	R7:	0.0	R15:	0.0
Dominant Wavelength (nm):	624	R8:	0.0		
Purity:	99.9862				

Rf:	NR
Rg:	NR



Test Conditions

Stabilization Time:	69M
Operation Time:	2H 9M
Sphere Temperature (°C):	25.1

REPORT NUMBER: SP1-2511-597-7

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	10/21/2025	10/21/2026
Sphere Thermometer	ONSET IN0085	10/21/2025	10/21/2026
Room Thermometer	ONSET IN0046	10/21/2025	10/21/2026

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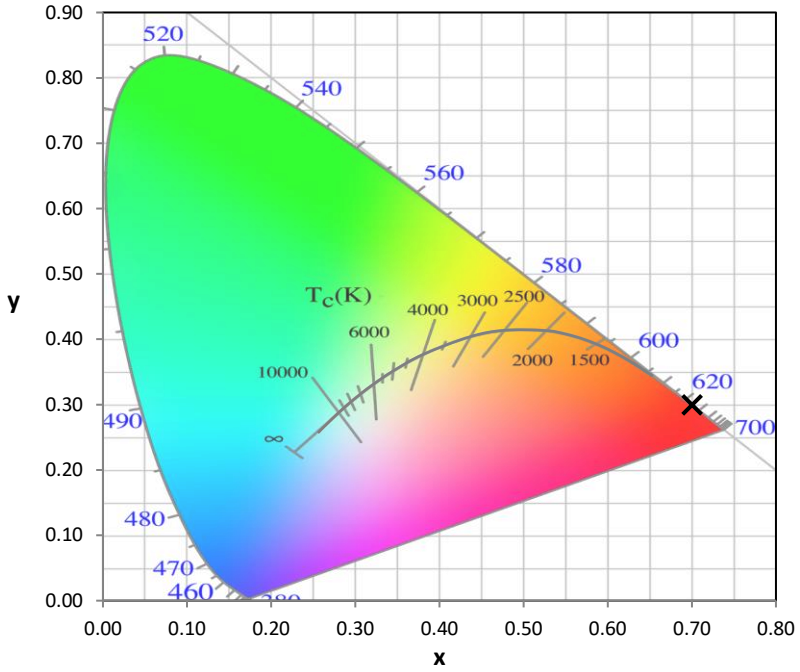
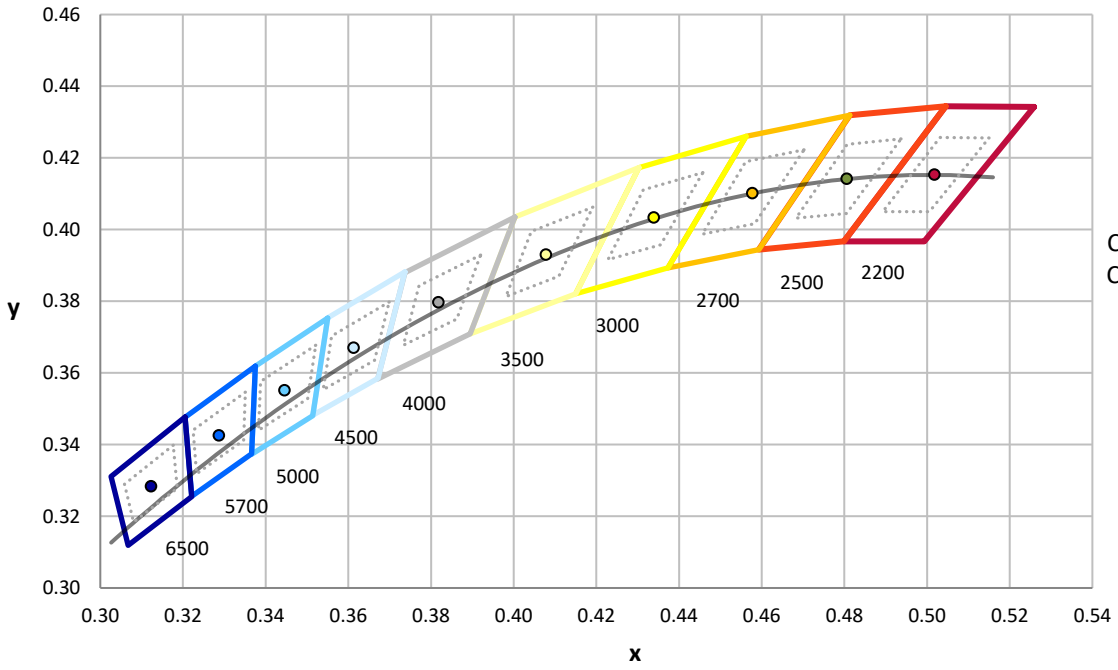
CIE 1931 Chromaticity Diagram



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

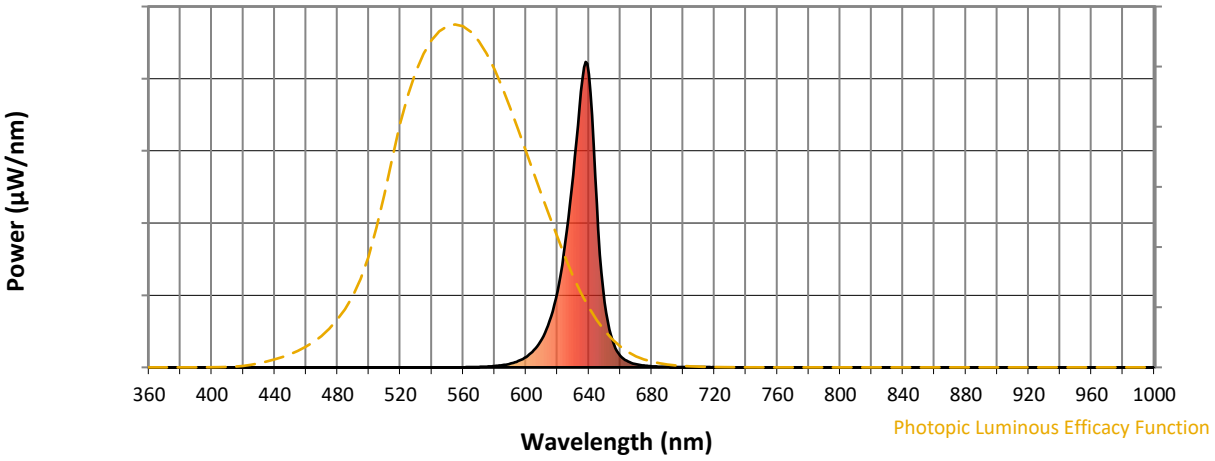


CCT = 0K
CIE x = 0.7004
CIE y = 0.2995
Duv = 0.0000

Point lies outside the range

REPORT NUMBER: SP1-2511-597-7

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	0	NR	620	248	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	409	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	630	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	903	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	960	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	535	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	212	NR	780	0	NR	910	0	NR
395	0	NR	525	0	NR	655	88	NR	785	0	NR	915	0	NR
400	0	NR	530	0	NR	660	38	NR	790	0	NR	920	0	NR
405	0	NR	535	0	NR	665	19	NR	795	0	NR	925	0	NR
410	0	NR	540	0	NR	670	10	NR	800	0	NR	930	0	NR
415	0	NR	545	0	NR	675	6	NR	805	0	NR	935	0	NR
420	0	NR	550	0	NR	680	4	NR	810	0	NR	940	0	NR
425	0	NR	555	0	NR	685	2	NR	815	0	NR	945	0	NR
430	0	NR	560	0	NR	690	2	NR	820	0	NR	950	0	NR
435	0	NR	565	1	NR	695	1	NR	825	0	NR	955	0	NR
440	0	NR	570	2	NR	700	1	NR	830	0	NR	960	0	NR
445	0	NR	575	3	NR	705	1	NR	835	0	NR	965	0	NR
450	0	NR	580	4	NR	710	1	NR	840	0	NR	970	0	NR
455	0	NR	585	7	NR	715	1	NR	845	0	NR	975	0	NR
460	0	NR	590	12	NR	720	1	NR	850	0	NR	980	0	NR
465	0	NR	595	20	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	34	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	56	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	92	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	152	NR	745	0	NR	875	0	NR			

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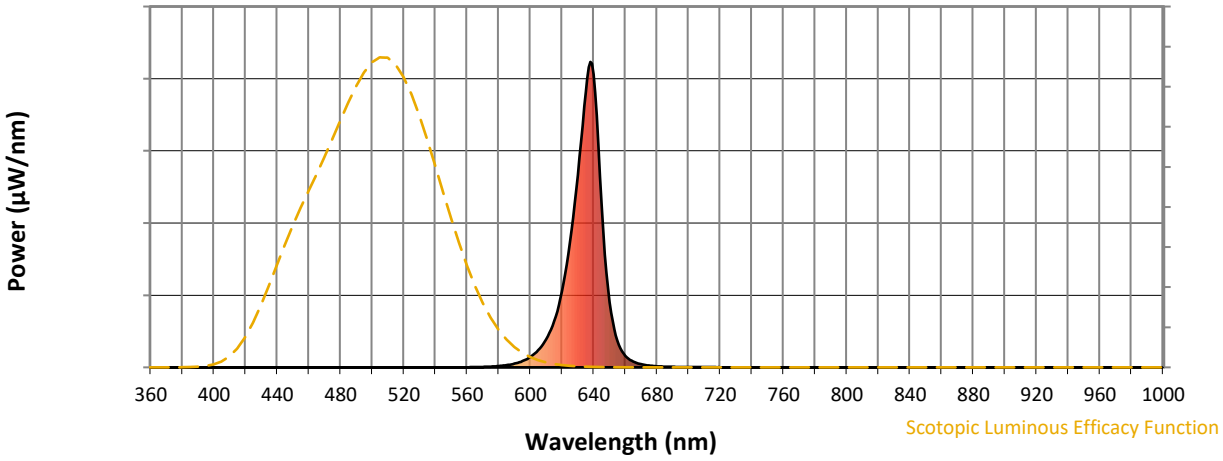
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 0.05**

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	0	NR	620	248	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	409	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	630	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	903	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	960	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	535	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	212	NR	780	0	NR	910	0	NR
395	0	NR	525	0	NR	655	88	NR	785	0	NR	915	0	NR
400	0	NR	530	0	NR	660	38	NR	790	0	NR	920	0	NR
405	0	NR	535	0	NR	665	19	NR	795	0	NR	925	0	NR
410	0	NR	540	0	NR	670	10	NR	800	0	NR	930	0	NR
415	0	NR	545	0	NR	675	6	NR	805	0	NR	935	0	NR
420	0	NR	550	0	NR	680	4	NR	810	0	NR	940	0	NR
425	0	NR	555	0	NR	685	2	NR	815	0	NR	945	0	NR
430	0	NR	560	0	NR	690	2	NR	820	0	NR	950	0	NR
435	0	NR	565	1	NR	695	1	NR	825	0	NR	955	0	NR
440	0	NR	570	2	NR	700	1	NR	830	0	NR	960	0	NR
445	0	NR	575	3	NR	705	1	NR	835	0	NR	965	0	NR
450	0	NR	580	4	NR	710	1	NR	840	0	NR	970	0	NR
455	0	NR	585	7	NR	715	1	NR	845	0	NR	975	0	NR
460	0	NR	590	12	NR	720	1	NR	850	0	NR	980	0	NR
465	0	NR	595	20	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	34	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	56	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	92	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	152	NR	745	0	NR	875	0	NR			

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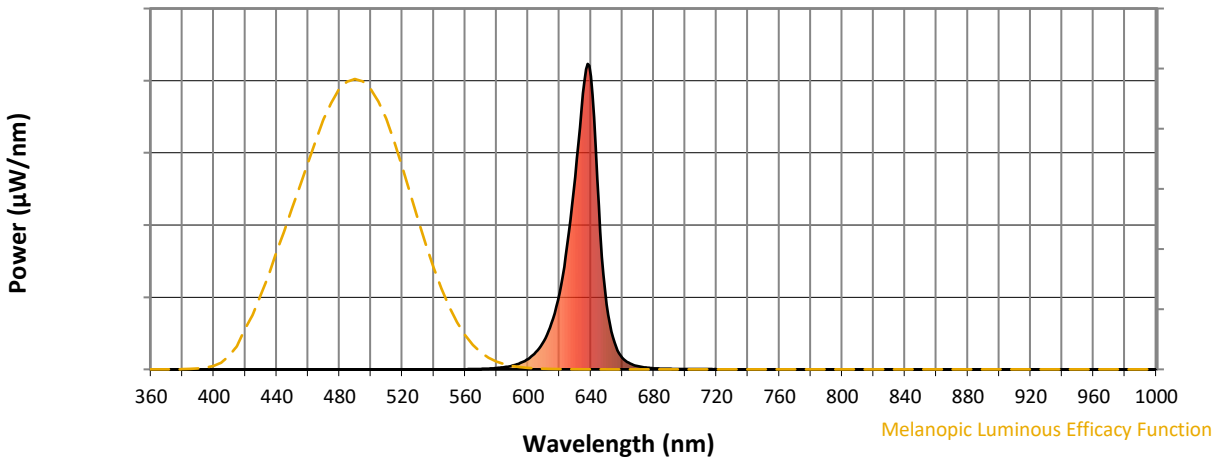
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 0.02**

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	0	NR	620	248	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	409	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	630	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	903	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	960	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	535	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	212	NR	780	0	NR	910	0	NR
395	0	NR	525	0	NR	655	88	NR	785	0	NR	915	0	NR
400	0	NR	530	0	NR	660	38	NR	790	0	NR	920	0	NR
405	0	NR	535	0	NR	665	19	NR	795	0	NR	925	0	NR
410	0	NR	540	0	NR	670	10	NR	800	0	NR	930	0	NR
415	0	NR	545	0	NR	675	6	NR	805	0	NR	935	0	NR
420	0	NR	550	0	NR	680	4	NR	810	0	NR	940	0	NR
425	0	NR	555	0	NR	685	2	NR	815	0	NR	945	0	NR
430	0	NR	560	0	NR	690	2	NR	820	0	NR	950	0	NR
435	0	NR	565	1	NR	695	1	NR	825	0	NR	955	0	NR
440	0	NR	570	2	NR	700	1	NR	830	0	NR	960	0	NR
445	0	NR	575	3	NR	705	1	NR	835	0	NR	965	0	NR
450	0	NR	580	4	NR	710	1	NR	840	0	NR	970	0	NR
455	0	NR	585	7	NR	715	1	NR	845	0	NR	975	0	NR
460	0	NR	590	12	NR	720	1	NR	850	0	NR	980	0	NR
465	0	NR	595	20	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	34	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	56	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	92	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	152	NR	745	0	NR	875	0	NR			

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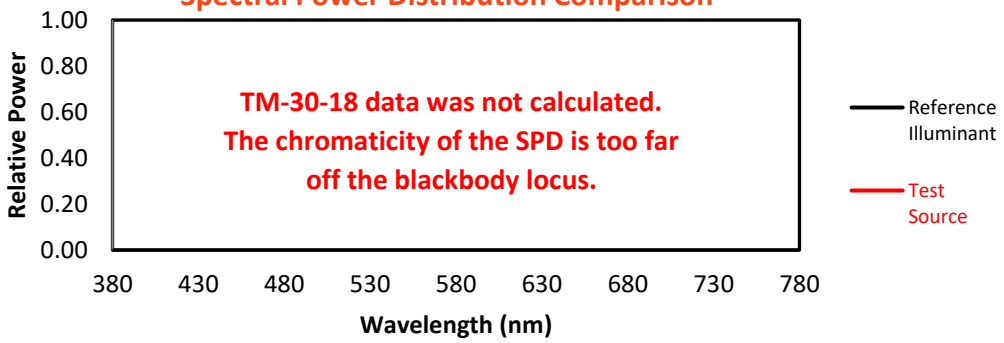
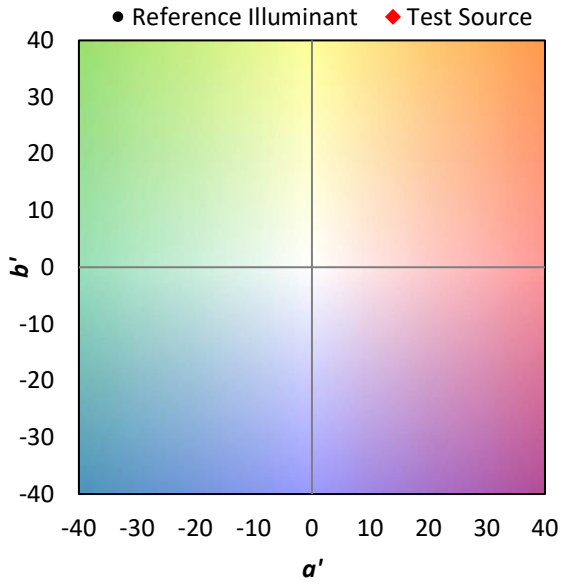
Summary

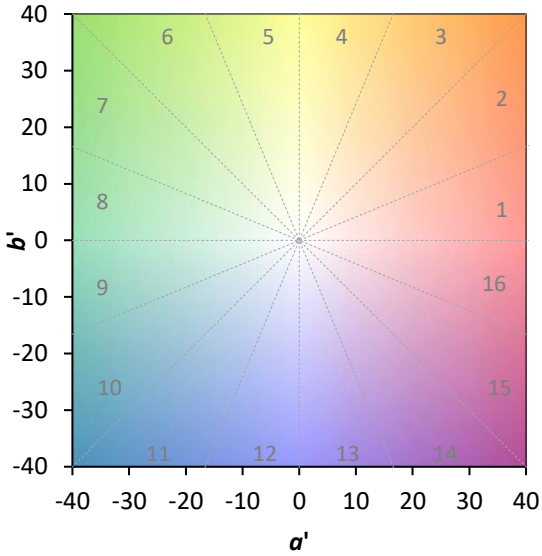
R_f = 0
R_g = 0
CIE R_a = 0.0
R_9 = 0.0

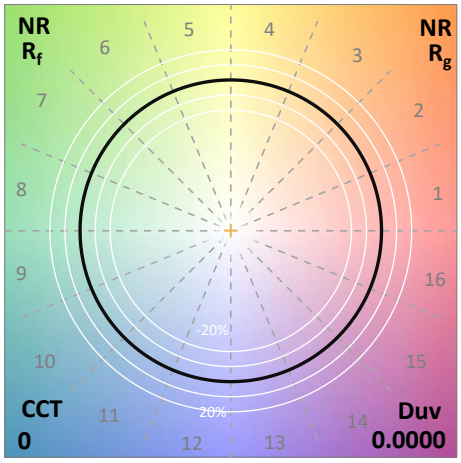
Spectral Power Distribution Comparison

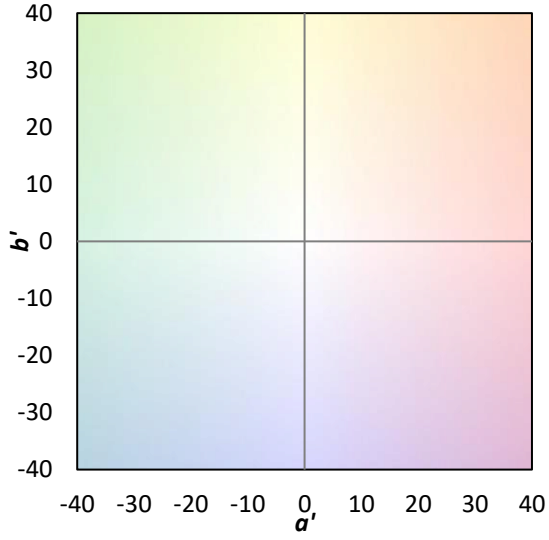


Color Vector Graphics









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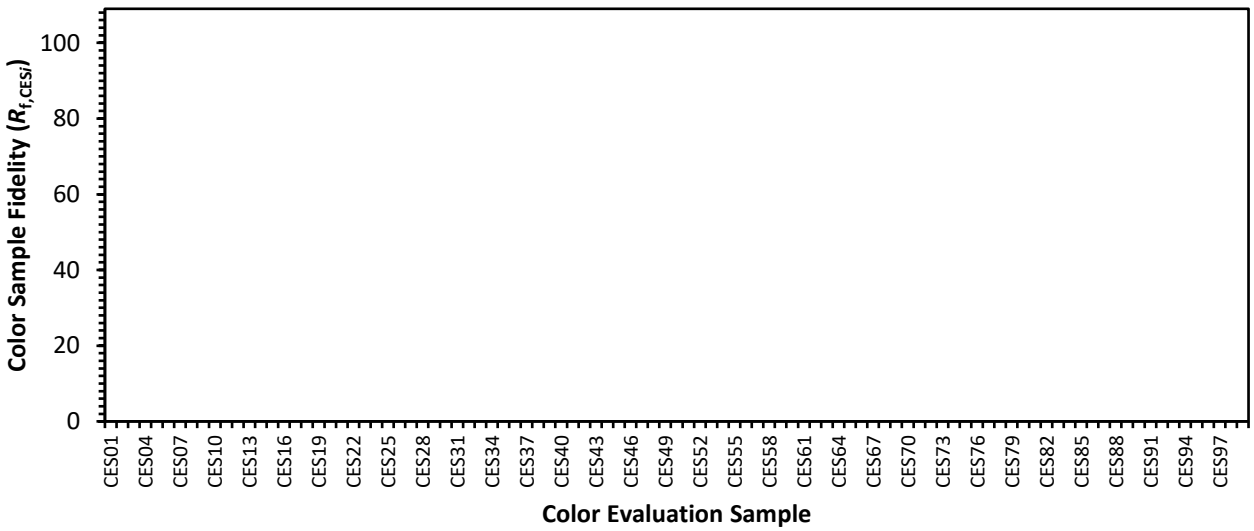
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 0	CES26 = 0	CES51 = 0	CES76 = 0
CES02 = 0	CES27 = 0	CES52 = 0	CES77 = 0
CES03 = 0	CES28 = 0	CES53 = 0	CES78 = 0
CES04 = 0	CES29 = 0	CES54 = 0	CES79 = 0
CES05 = 0	CES30 = 0	CES55 = 0	CES80 = 0
CES06 = 0	CES31 = 0	CES56 = 0	CES81 = 0
CES07 = 0	CES32 = 0	CES57 = 0	CES82 = 0
CES08 = 0	CES33 = 0	CES58 = 0	CES83 = 0
CES09 = 0	CES34 = 0	CES59 = 0	CES84 = 0
CES10 = 0	CES35 = 0	CES60 = 0	CES85 = 0
CES11 = 0	CES36 = 0	CES61 = 0	CES86 = 0
CES12 = 0	CES37 = 0	CES62 = 0	CES87 = 0
CES13 = 0	CES38 = 0	CES63 = 0	CES88 = 0
CES14 = 0	CES39 = 0	CES64 = 0	CES89 = 0
CES15 = 0	CES40 = 0	CES65 = 0	CES90 = 0
CES16 = 0	CES41 = 0	CES66 = 0	CES91 = 0
CES17 = 0	CES42 = 0	CES67 = 0	CES92 = 0
CES18 = 0	CES43 = 0	CES68 = 0	CES93 = 0
CES19 = 0	CES44 = 0	CES69 = 0	CES94 = 0
CES20 = 0	CES45 = 0	CES70 = 0	CES95 = 0
CES21 = 0	CES46 = 0	CES71 = 0	CES96 = 0
CES22 = 0	CES47 = 0	CES72 = 0	CES97 = 0
CES23 = 0	CES48 = 0	CES73 = 0	CES98 = 0
CES24 = 0	CES49 = 0	CES74 = 0	CES99 = 0
CES25 = 0	CES50 = 0	CES75 = 0	



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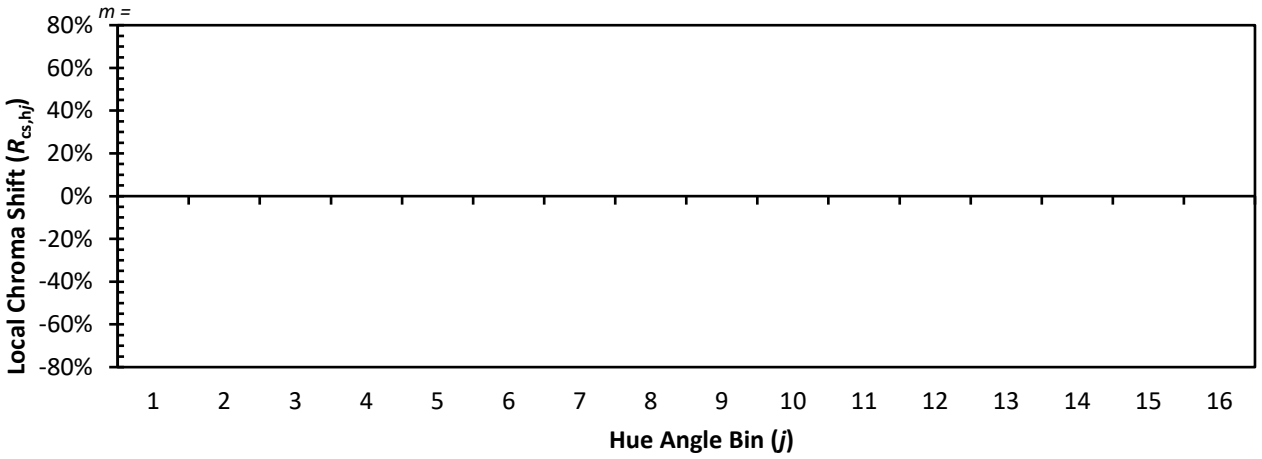
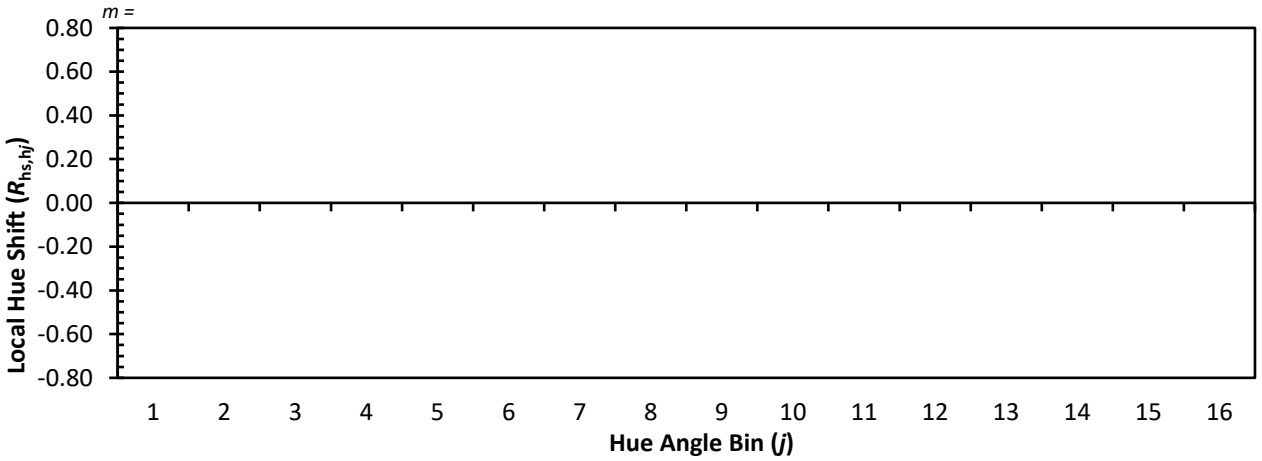
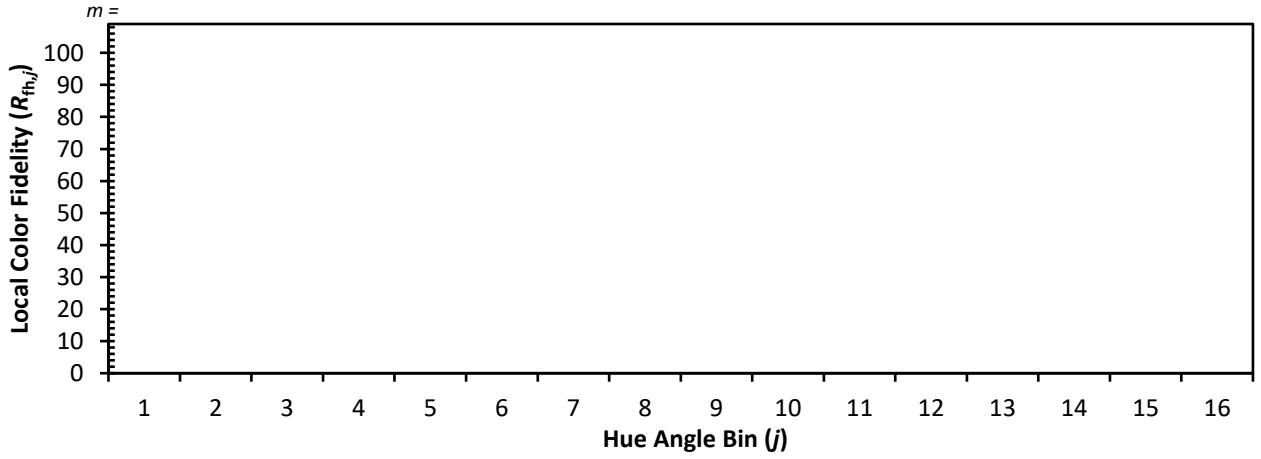
Color Rendition by Hue-Angle Bin







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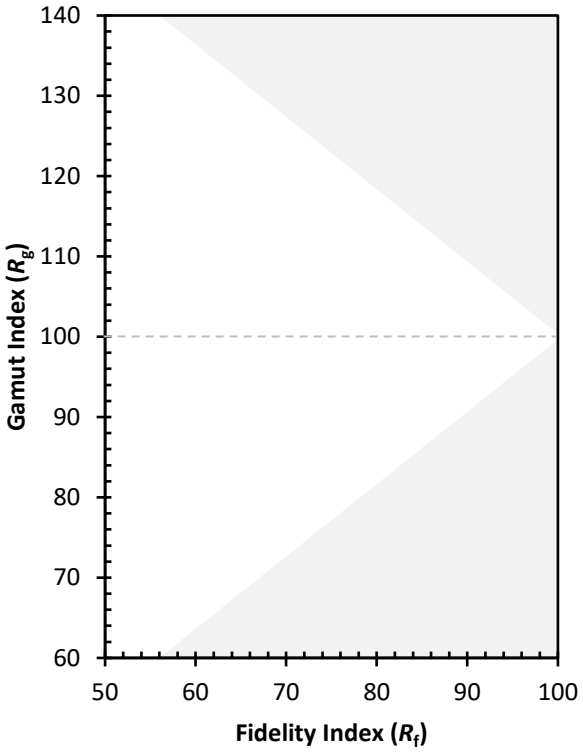
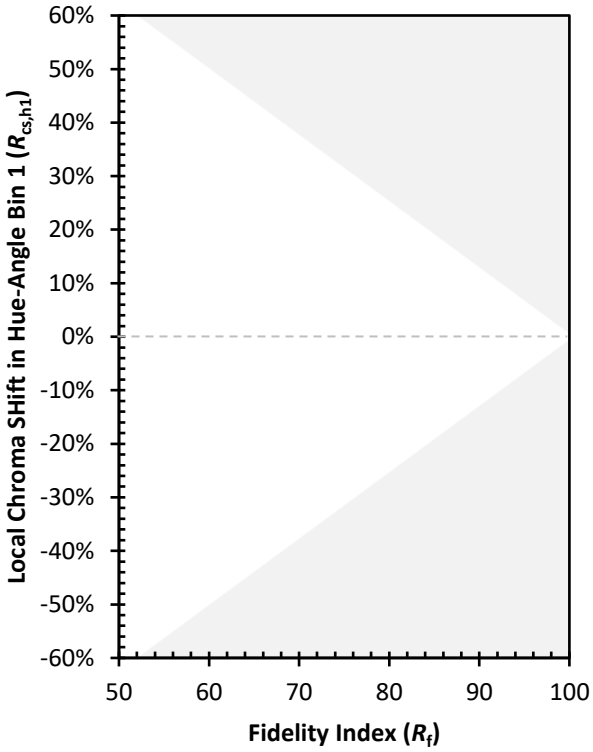
Measure Comparisons





(END OF REPORT)