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: P1356933

Luminaire Tested: 2ASL4-35VHE-3-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:	P1356933
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-12)
Test Lab:	INNOVATION CENTER
Issue Date:	2/17/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	FAIL-SAFE
Catalog Number:	2ASL4-35VHE-3-R63-UNV
Description:	2FT 3500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND R63 LEDS 3 ROW
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	1812.0 lumens
Efficiency:	N/A
Efficacy:	38.7 lumens/watt
Spacing Criteria (0/90/45):	1.21 / 1.3 / 1.39
Luminous Opening:	Rectangular w/ Sides (W: 0.33' x L: 1.98' x H: 0.1')
CIE Type:	Direct

Input Watts (W):	46.8
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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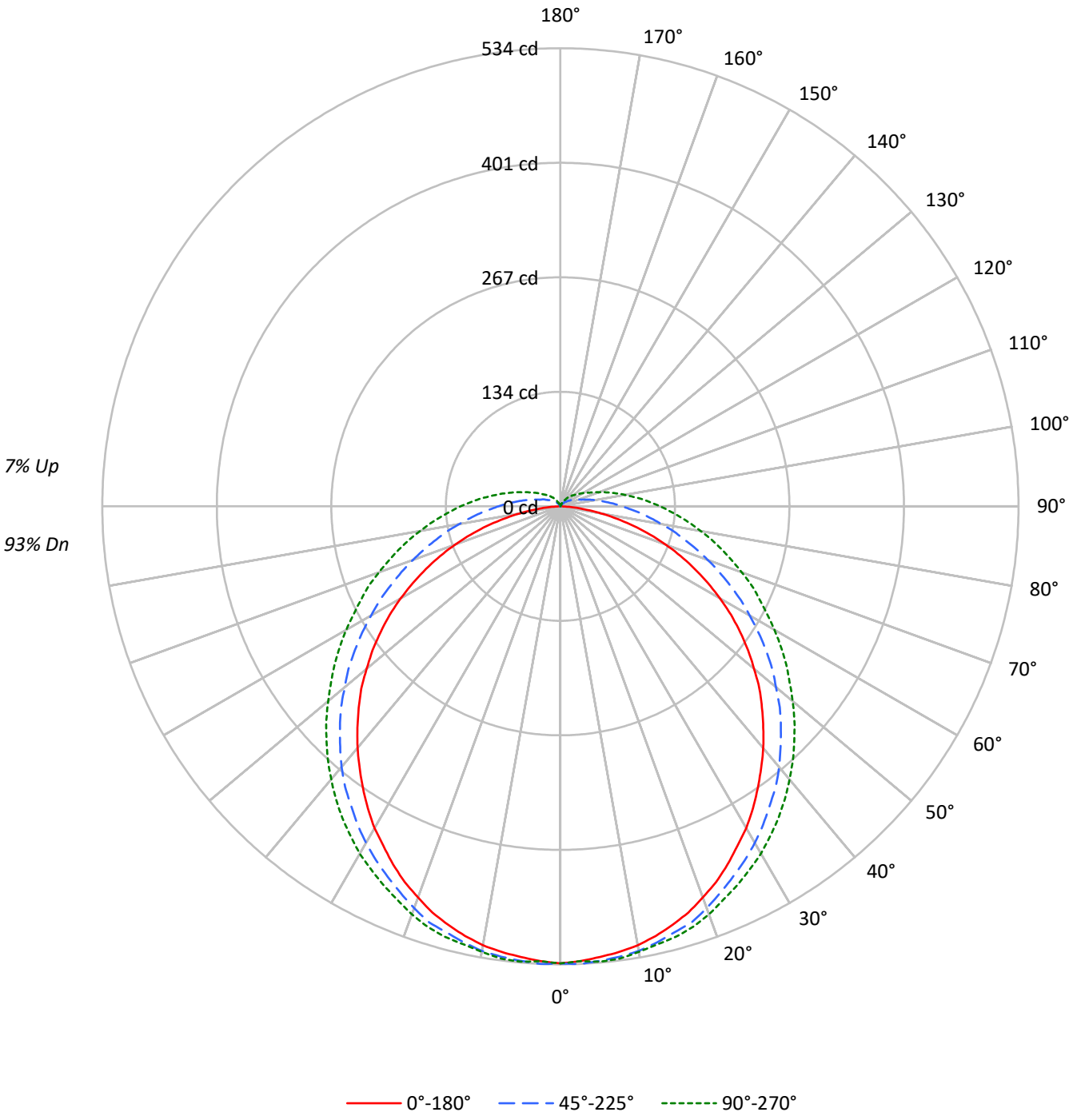
Luminous Intensity Polar Plot



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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	96	96	96	93
1	105	100	95	91	102	97	92	88	91	88	84	86	83	80	81	79	77	74
2	95	86	79	72	92	84	77	71	79	73	68	75	70	66	71	67	63	61
3	86	75	67	60	83	73	65	59	69	62	57	65	60	55	62	57	53	50
4	79	66	57	50	76	65	56	49	61	54	48	58	52	47	55	50	45	43
5	73	59	50	43	70	58	49	42	55	47	41	52	45	40	49	44	39	37
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	45	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	35	29	41	34	28	39	32	28	37	32	27	25
9	54	40	32	26	52	39	31	26	38	30	25	36	30	25	35	29	24	22
10	50	37	29	24	49	36	29	23	35	28	23	33	27	23	32	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8695	8695	8695
5°	8598	8518	8496
10°	8529	8340	8281
15°	8415	8122	8099
20°	8268	7914	7893
25°	8099	7655	7660
30°	7921	7431	7463
35°	7705	7178	7243
40°	7502	6945	7011
45°	7286	6664	6779
50°	7039	6367	6536
55°	6770	6079	6319
60°	6427	5745	6100
65°	5995	5424	5915
70°	5447	5102	5773
75°	4668	4803	5675
80°	3531	4564	5633
85°	1940	4463	5716

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 7286 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.5	2.8
10°-20°	145.1	8.0
20°-30°	219.4	12.1
30°-40°	265.6	14.7
40°-50°	279.0	15.4
50°-60°	260.3	14.4
60°-70°	215.1	11.9
70°-80°	154.9	8.5
80°-90°	96.2	5.3
90°-100°	56.4	3.1
100°-110°	32.3	1.8
110°-120°	18.2	1.0
120°-130°	10.5	0.6
130°-140°	5.6	0.3
140°-150°	2.4	0.1
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	415.0	22.9
0°-40°	680.6	37.6
0°-60°	1219.9	67.3
0°-90°	1686.2	93.1
90°-120°	106.9	5.9
90°-150°	125.4	6.9
90°-180°	126.0	7.0
0°-180°	1812.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	533	533	533	533	533	
5°	527	532	532	532	533	50
15°	505	512	514	517	520	142
25°	461	469	476	483	488	212
35°	401	412	426	438	443	251
45°	332	345	363	379	386	256
55°	256	270	292	314	321	229
65°	173	190	218	246	256	171
75°	89	111	150	182	195	94
85°	17	50	94	127	140	20
90°	0	30	72	103	116	1
95°	0	19	54	83	95	0
105°	0	7	30	52	61	0
115°	0	3	18	32	38	0
125°	0	2	11	21	24	0
135°	0	0	7	13	17	0
145°	0	0	3	8	9	0
155°	0	0	0	2	3	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: P1356933
CATALOG NUMBER: 2ASL4-35VHE-3-R63-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	532.9	*532.9*	532.9	532.9	532.9
2.5°	*530.7*	*534.0*	*534.0*	*530.7*	*530.7*
5°	527.4	*531.8*	531.8	531.8	532.9
7.5°	524.1	*529.6*	529.6	529.6	531.8
10°	519.6	*525.2*	526.3	526.3	527.4
12.5°	513.0	*519.6*	520.7	521.9	523.0
15°	505.2	*511.9*	514.1	517.4	519.6
17.5°	496.4	*504.1*	508.6	511.9	514.1
20°	485.3	*493.0*	498.6	503.0	506.3
22.5°	474.2	*480.9*	487.5	493.0	496.4
25°	460.9	*468.7*	476.4	483.1	487.5
27.5°	446.5	*455.4*	465.3	473.1	477.5
30°	433.2	*442.1*	453.2	463.1	467.6
32.5°	417.7	*427.7*	439.9	449.8	455.4
35°	401.1	*412.2*	425.5	437.6	443.2
37.5°	384.5	*395.5*	412.2	424.4	429.9
40°	367.8	*378.9*	396.7	409.9	415.5
42.5°	350.1	*361.2*	380.0	394.4	401.1
45°	332.4	*344.6*	363.4	378.9	385.6
47.5°	314.7	*326.9*	346.8	363.4	370.1
50°	294.7	*308.0*	328.0	346.8	353.4
52.5°	275.9	*289.2*	311.3	330.2	336.8
55°	255.9	*270.3*	292.5	313.6	321.3
57.5°	236.0	*250.4*	273.7	295.8	304.7
60°	214.9	*230.5*	254.8	278.1	288.1
62.5°	193.9	*210.5*	237.1	261.5	271.5
65°	172.8	*189.5*	218.3	246.0	255.9
67.5°	151.8	*169.5*	200.5	229.3	241.5
70°	130.7	*149.6*	182.8	212.7	224.9
72.5°	109.7	*129.6*	166.2	197.2	209.4
75°	88.6	*110.8*	149.6	181.7	195.0
77.5°	67.6	*93.1*	135.2	167.3	180.6
80°	48.8	*77.6*	119.7	152.9	166.2
82.5°	31.0	*62.0*	106.4	139.6	152.9
85°	16.6	*49.9*	94.2	127.4	139.6
87.5°	5.5	*38.8*	82.0	115.2	127.4
90°	0.0	*29.9*	72.0	103.0	116.3
92.5°	0.0	*23.3*	63.2	93.1	105.3
95°	0.0	*18.8*	54.3	83.1	95.3
97.5°	0.0	*15.5*	47.6	74.2	85.3
100°	0.0	*12.2*	41.0	66.5	76.4
102.5°	0.0	*10.0*	35.5	58.7	68.7
105°	0.0	*6.6*	29.9	52.1	60.9
107.5°	0.0	*5.5*	25.5	46.5	54.3
110°	0.0	*4.4*	23.3	39.9	47.6

TEST NUMBER: P1356933
CATALOG NUMBER: 2ASL4-35VHE-3-R63-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	*3.3*	21.1	35.5	43.2
115°	0.0	*3.3*	17.7	32.1	37.7
117.5°	0.0	*3.3*	15.5	28.8	34.3
120°	0.0	*2.2*	14.4	25.5	31.0
122.5°	0.0	*2.2*	12.2	23.3	27.7
125°	0.0	*2.2*	11.1	21.1	24.4
127.5°	0.0	*1.1*	10.0	18.8	22.2
130°	0.0	*1.1*	8.9	16.6	19.9
132.5°	0.0	*1.1*	7.8	15.5	18.8
135°	0.0	*0.0*	6.6	13.3	16.6
137.5°	0.0	*0.0*	5.5	12.2	14.4
140°	0.0	*0.0*	4.4	10.0	13.3
142.5°	0.0	*0.0*	3.3	8.9	11.1
145°	0.0	*0.0*	3.3	7.8	8.9
147.5°	0.0	*0.0*	2.2	5.5	7.8
150°	0.0	*0.0*	1.1	4.4	5.5
152.5°	0.0	*0.0*	0.0	3.3	4.4
155°	0.0	*0.0*	0.0	2.2	3.3
157.5°	0.0	*0.0*	0.0	0.0	1.1
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	16.82	18.36	17.28	18.81	19.29	18.76	20.30	19.23	20.75	21.24
	3H	18.31	19.72	18.80	20.18	20.71	21.19	22.59	21.67	23.05	23.58
	4H	18.80	20.13	19.30	20.61	21.15	22.35	23.68	22.86	24.17	24.70
	6H	19.07	20.31	19.59	20.81	21.36	23.56	24.80	24.07	25.29	25.85
	8H	19.13	20.31	19.65	20.83	21.39	24.17	25.35	24.69	25.87	26.43
	12H	19.14	20.28	19.67	20.79	21.38	24.82	25.96	25.35	26.47	27.06
4H	2H	17.68	19.01	18.18	19.49	20.03	19.20	20.53	19.70	21.01	21.55
	3H	19.41	20.55	19.93	21.07	21.63	21.85	22.99	22.37	23.51	24.07
	4H	20.02	21.06	20.55	21.59	22.19	23.19	24.23	23.72	24.76	25.36
	6H	20.42	21.33	20.97	21.90	22.50	24.59	25.50	25.14	26.07	26.67
	8H	20.51	21.38	21.07	21.94	22.56	25.30	26.16	25.86	26.73	27.35
	12H	20.56	21.34	21.14	21.93	22.56	26.08	26.86	26.66	27.45	28.07
8H	4H	20.68	21.54	21.24	22.11	22.73	23.41	24.27	23.97	24.83	25.45
	6H	21.26	21.99	21.85	22.60	23.22	24.98	25.71	25.57	26.31	26.94
	8H	21.44	22.10	22.05	22.72	23.35	25.83	26.49	26.44	27.11	27.75
	12H	21.56	22.15	22.16	22.75	23.45	26.79	27.38	27.40	27.99	28.69
12H	4H	20.87	21.65	21.45	22.24	22.86	23.42	24.20	24.00	24.79	25.42
	6H	21.54	22.20	22.15	22.82	23.46	25.02	25.68	25.62	26.29	26.93
	8H	21.82	22.41	22.43	23.01	23.72	25.94	26.53	26.55	27.13	27.84

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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

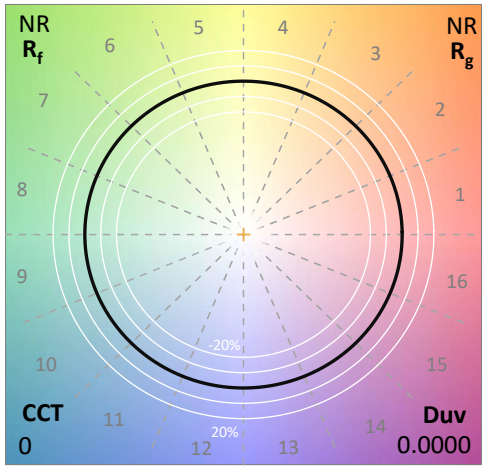
Test Information

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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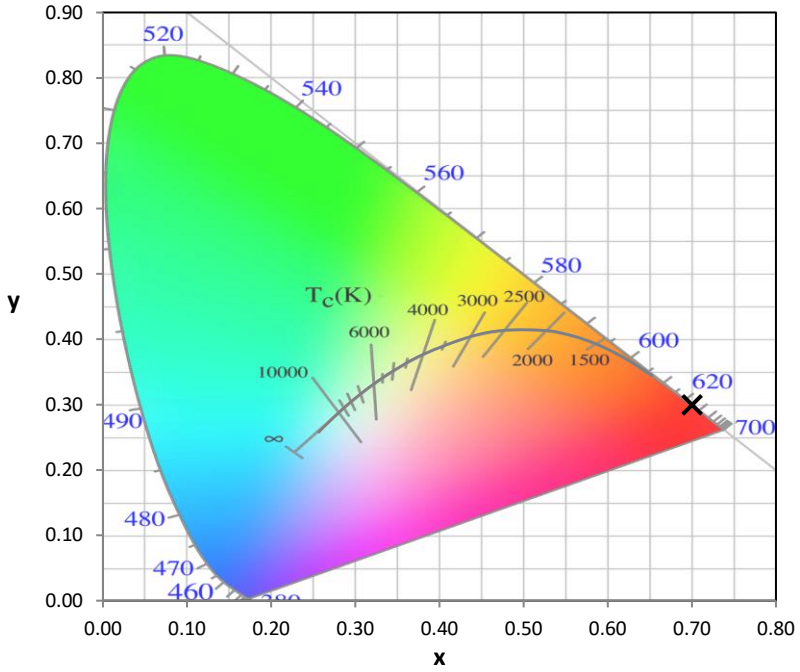
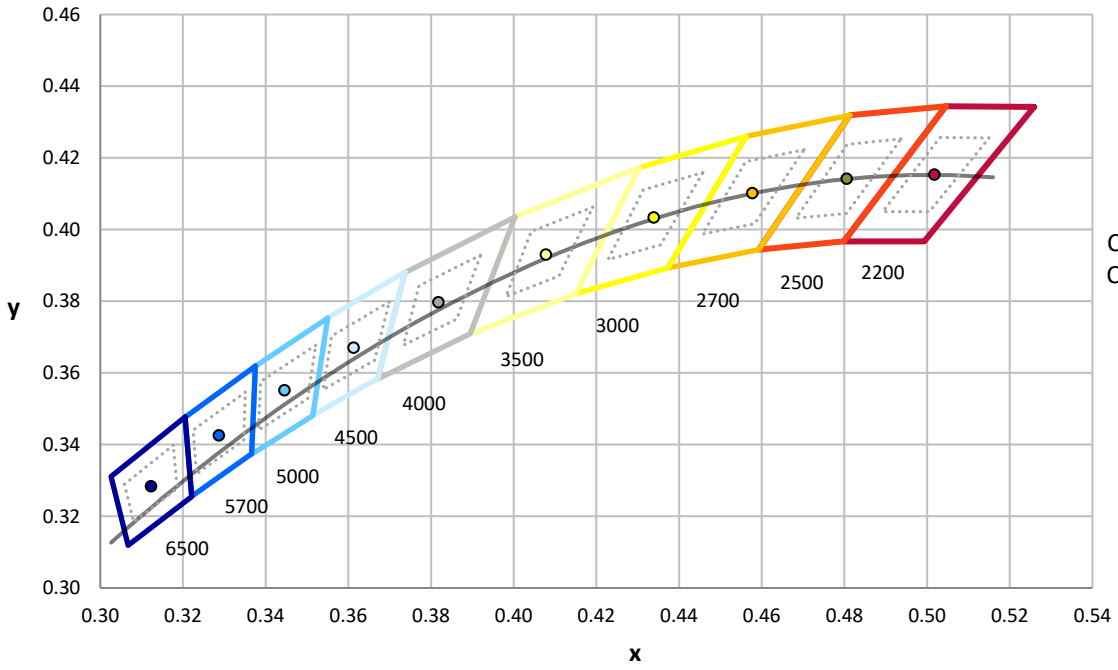
CIE 1931 Chromaticity Diagram



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

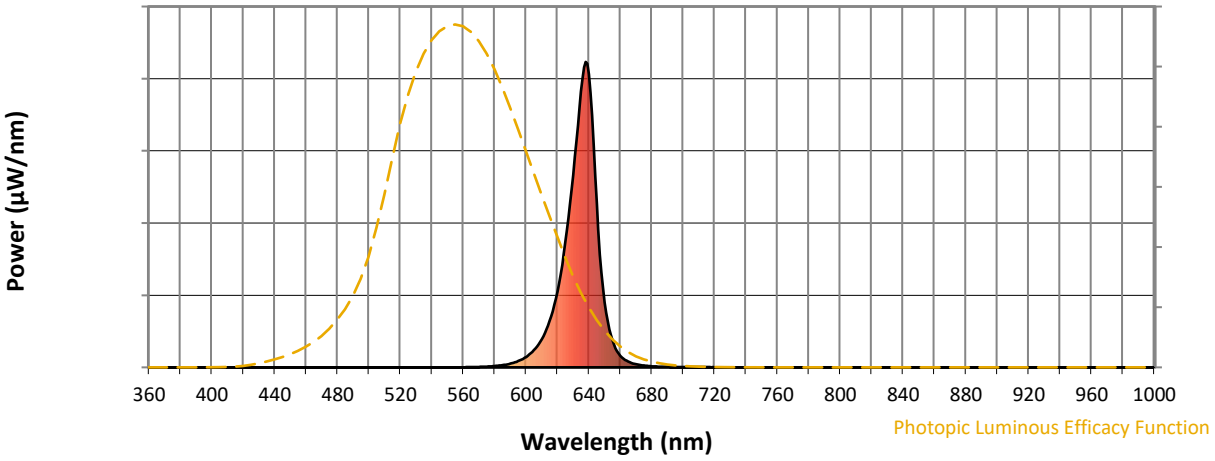


CCT = 0K
CIE x = 0.7004
CIE y = 0.2995
Duv = 0.0000

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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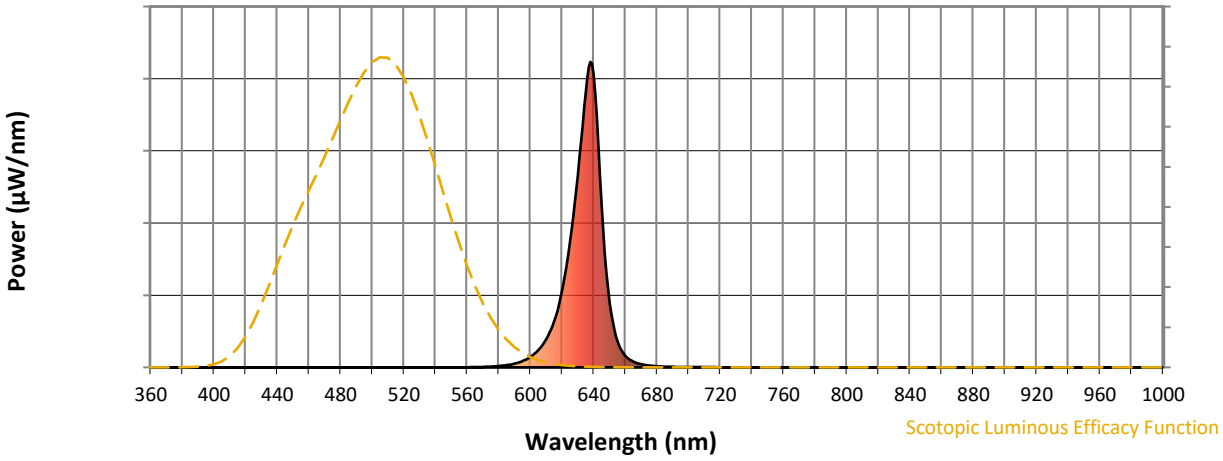
Scotopic Flux vs. Wavelength



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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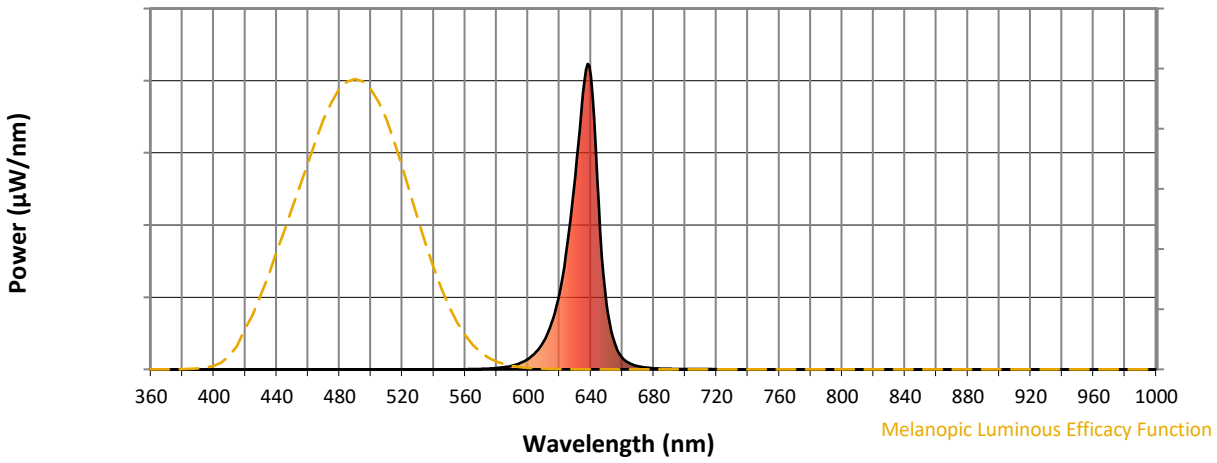
Melanopic Flux vs. Wavelength



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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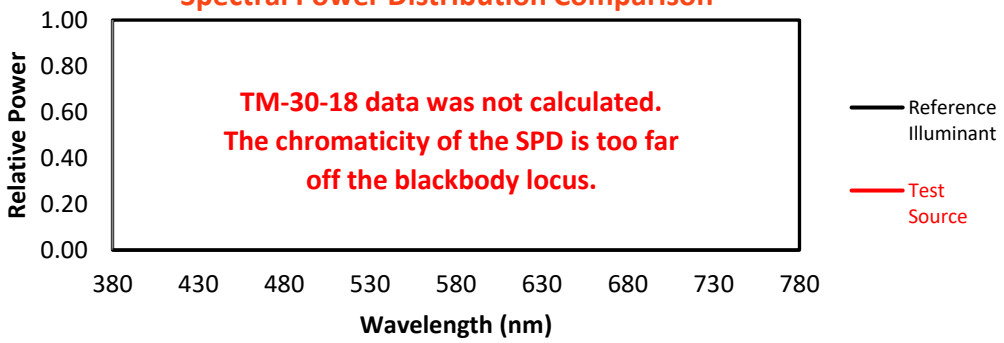
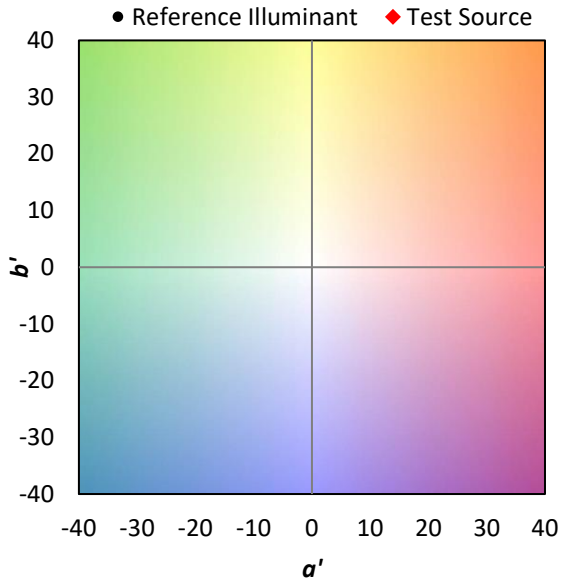
Summary

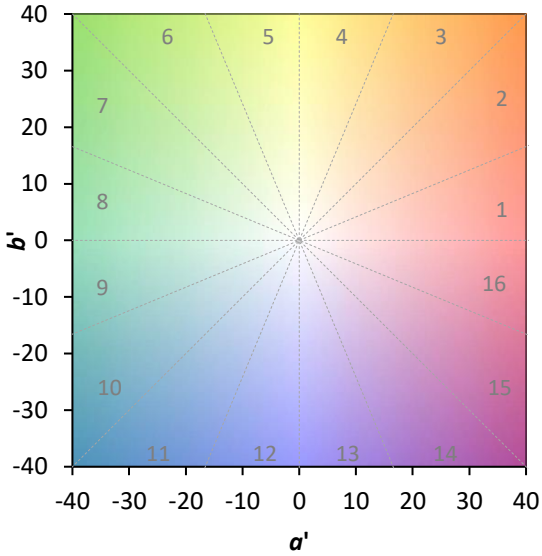
R_f = 0
R_g = 0
CIE R_a = 0.0
R_9 = 0.0

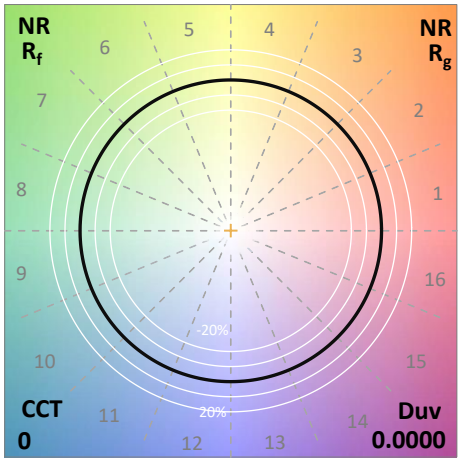
Spectral Power Distribution Comparison

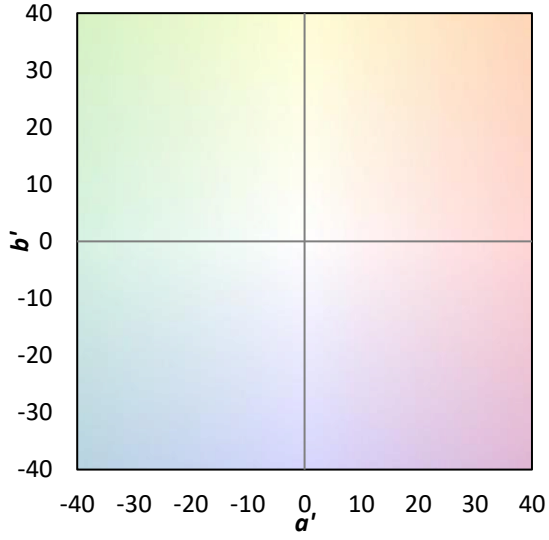


Color Vector Graphics









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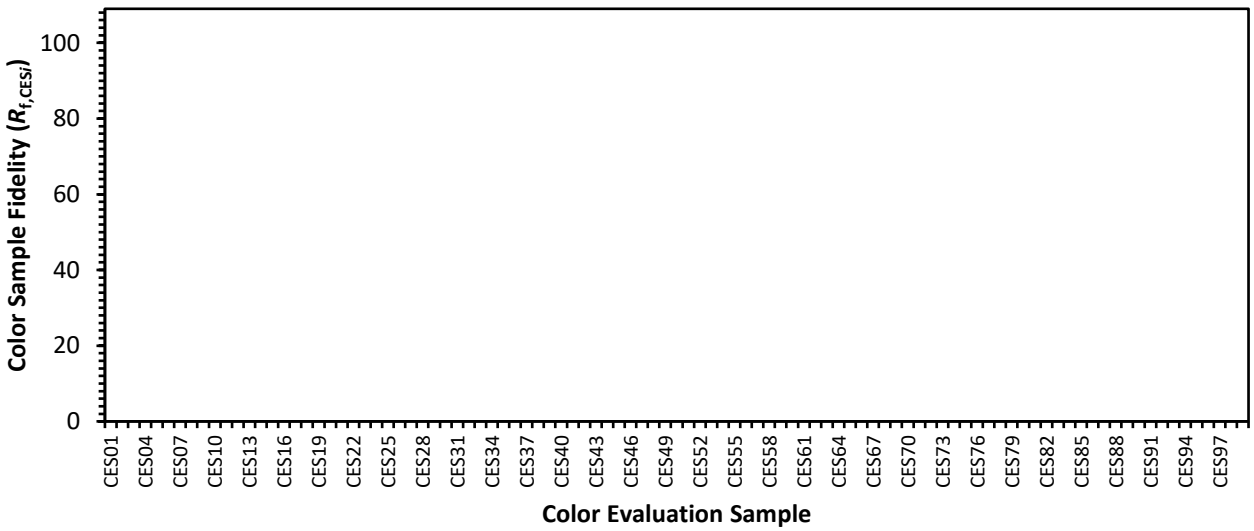
Individual Sample Fidelity Index ($R_{f,i}$)

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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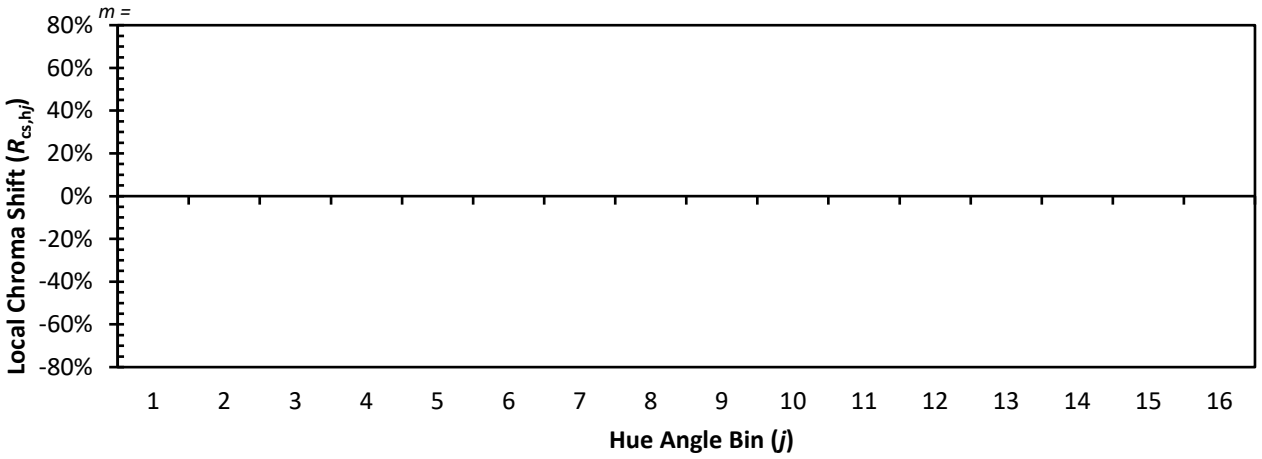
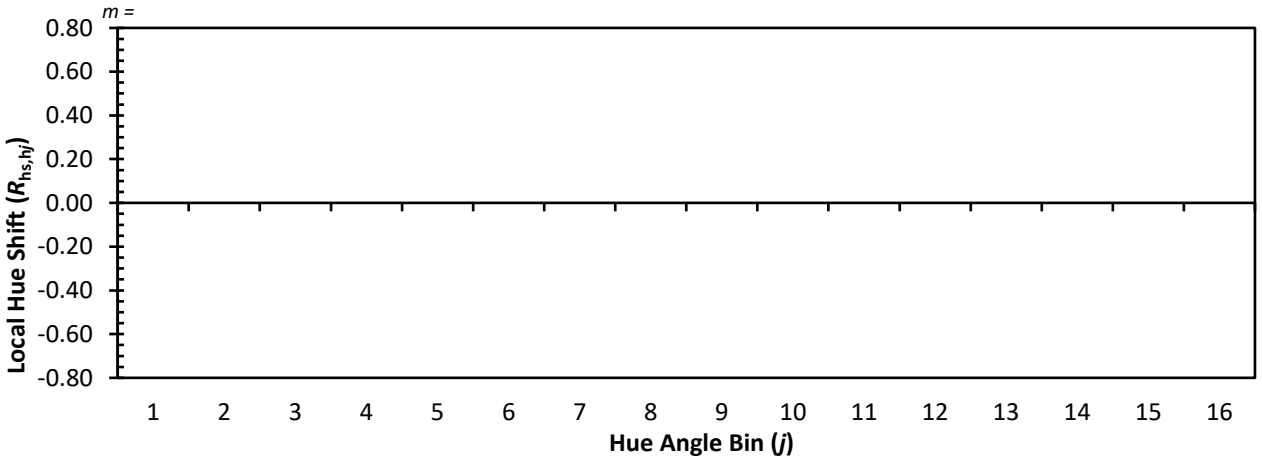
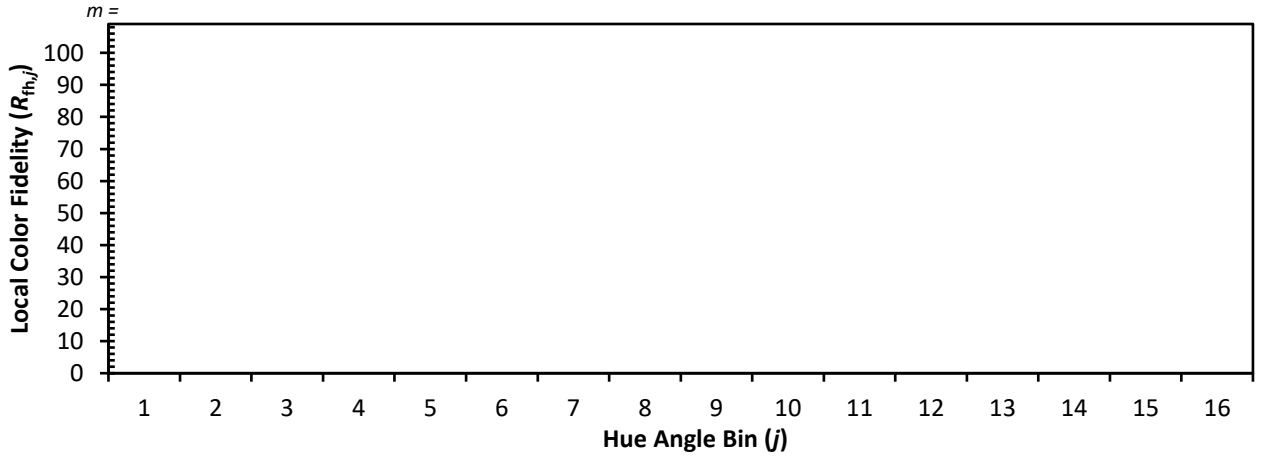
Color Rendition by Hue-Angle Bin







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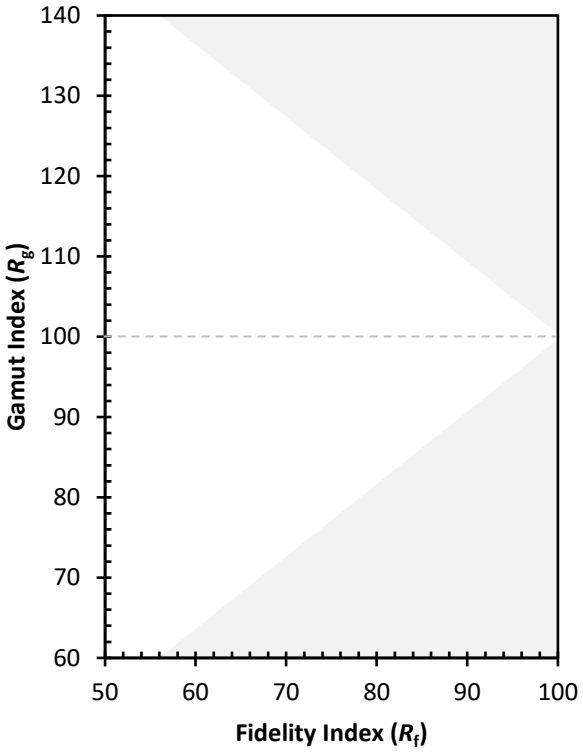
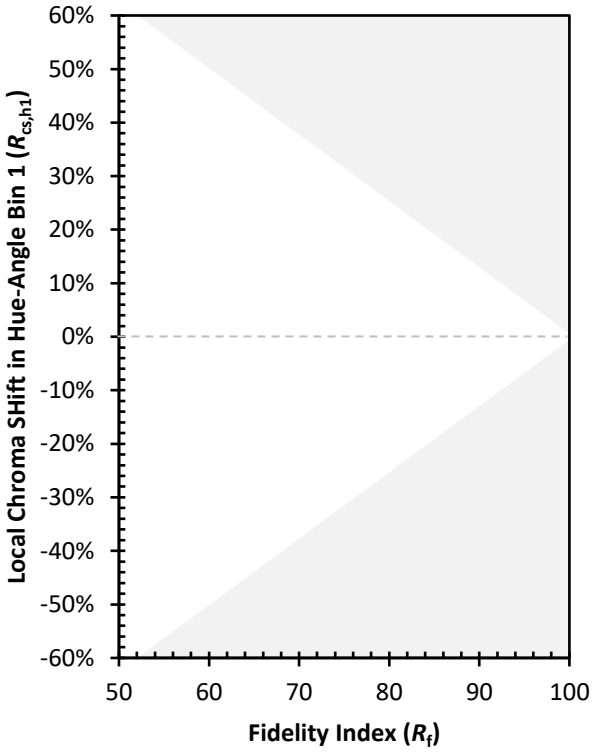
Measure Comparisons





(END OF REPORT)