

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: P1357347

Luminaire Tested: 6ASL4-20VHE-3-R63-UNV

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357347
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: 6ASL4-20VHE-3-R63-UNV
Description: 6FT 2000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND R63 LEDS 3 ROW
Light Source: -
Ballast/Driver: -

Summary

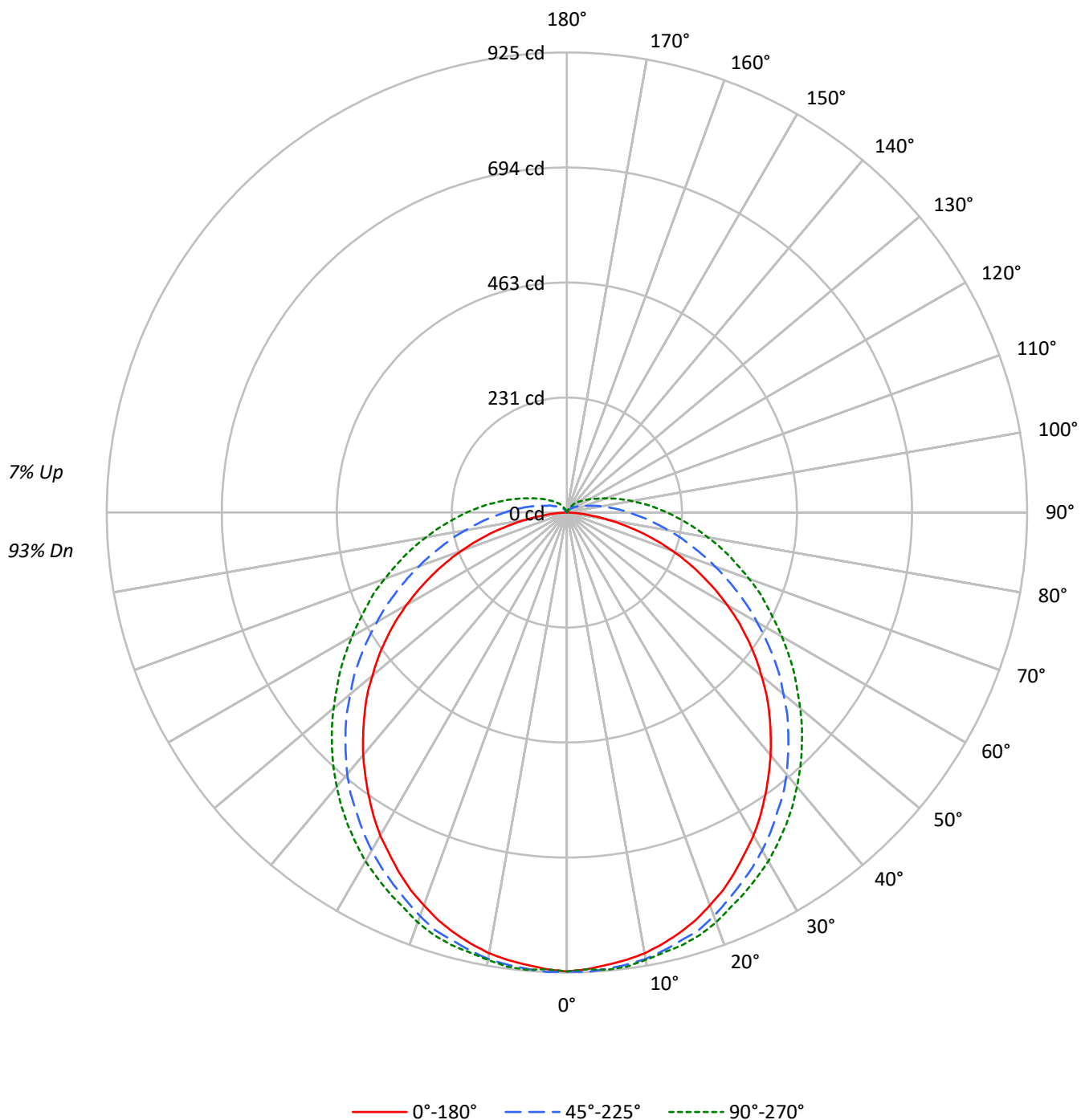
Lumens per Lamp: N/A
Luminaire Lumens: 3138.0 lumens
Efficiency: N/A
Efficacy: 42.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 5.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 74.6
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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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	117	117	117	117	114	114	114	114	107	107	107		101	101	101		96
1	105	100	95	91	102	97	92	88	91	88	84		86	83	80		81
2	95	86	79	72	92	84	77	71	79	73	68		75	70	66		71
3	86	75	67	60	83	73	65	59	69	62	57		65	60	55		62
4	79	66	57	50	76	65	56	49	61	54	48		58	52	47		55
5	73	59	50	43	70	58	49	42	55	47	41		52	45	40		49
6	67	53	44	37	64	52	43	37	49	42	36		47	40	35		45
7	62	48	39	33	60	47	38	32	45	37	32		43	36	31		41
8	58	44	35	29	56	43	35	29	41	34	28		39	32	28		37
9	54	40	32	26	52	39	31	26	38	30	25		36	30	25		35
10	50	37	29	24	49	36	29	23	35	28	23		33	27	23		32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4984	4984	4984
5°	4944	4893	4870
10°	4920	4801	4747
15°	4870	4685	4643
20°	4800	4574	4525
25°	4718	4434	4391
30°	4632	4313	4278
35°	4524	4176	4152
40°	4426	4050	4019
45°	4321	3898	3886
50°	4201	3734	3747
55°	4072	3578	3622
60°	3903	3395	3496
65°	3687	3220	3391
70°	3412	3047	3309
75°	3008	2889	3253
80°	2389	2774	3229
85°	1488	2756	3277

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4321 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	2.8
10°-20°	251.3	8.0
20°-30°	379.9	12.1
30°-40°	460.0	14.7
40°-50°	483.2	15.4
50°-60°	450.8	14.4
60°-70°	372.5	11.9
70°-80°	268.2	8.5
80°-90°	166.7	5.3
90°-100°	97.7	3.1
100°-110°	55.9	1.8
110°-120°	31.6	1.0
120°-130°	18.2	0.6
130°-140°	9.8	0.3
140°-150°	4.1	0.1
150°-160°	0.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	718.7	22.9
0°-40°	1178.7	37.6
0°-60°	2112.7	67.3
0°-90°	2920.1	93.1
90°-120°	185.1	5.9
90°-150°	217.1	6.9
90°-180°	218.0	6.9
0°-180°	3138.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	923	923	923	923	923	
5°	913	921	921	921	923	87
15°	875	886	890	896	900	247
25°	798	812	825	837	844	368
35°	695	714	737	758	768	435
45°	576	597	629	656	668	444
55°	443	468	507	543	556	396
65°	299	328	378	426	443	296
75°	154	192	259	315	338	162
85°	29	86	163	221	242	35
90°	0	52	125	178	202	1
95°	0	33	94	144	165	0
105°	0	12	52	90	106	0
115°	0	6	31	56	65	0
125°	0	4	19	36	42	0
135°	0	0	12	23	29	0
145°	0	0	6	13	15	0
155°	0	0	0	4	6	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	922.9	922.9	922.9	922.9	922.9
2.5°	919.1	924.8	924.8	919.1	919.1
5°	913.3	921.0	921.0	921.0	922.9
7.5°	907.6	917.2	917.2	917.2	921.0
10°	899.9	909.5	911.4	911.4	913.3
12.5°	888.4	899.9	901.8	903.7	905.7
15°	875.0	886.5	890.3	896.1	899.9
17.5°	859.6	873.0	880.7	886.5	890.3
20°	840.4	853.9	863.4	871.1	876.9
22.5°	821.2	832.7	844.3	853.9	859.6
25°	798.2	811.6	825.1	836.6	844.3
27.5°	773.3	788.6	805.9	819.3	827.0
30°	750.2	765.6	784.8	802.0	809.7
32.5°	723.4	740.6	761.8	779.0	788.6
35°	694.6	713.8	736.8	757.9	767.5
37.5°	665.8	685.0	713.8	734.9	744.5
40°	637.0	656.2	686.9	709.9	719.5
42.5°	606.3	625.5	658.1	683.1	694.6
45°	575.6	596.7	629.4	656.2	667.7
47.5°	544.9	566.0	600.6	629.4	640.9
50°	510.4	533.4	568.0	600.6	612.1
52.5°	477.8	500.8	539.2	571.8	583.3
55°	443.2	468.2	506.6	543.0	556.4
57.5°	408.7	433.6	473.9	512.3	527.7
60°	372.2	399.1	441.3	481.6	498.9
62.5°	335.8	364.6	410.6	452.8	470.1
65°	299.3	328.1	378.0	426.0	443.2
67.5°	262.9	293.6	347.3	397.2	418.3
70°	226.4	259.0	316.6	368.4	389.5
72.5°	190.0	224.5	287.8	341.5	362.6
75°	153.5	191.9	259.0	314.7	337.7
77.5°	117.0	161.2	234.1	289.7	312.8
80°	84.4	134.3	207.2	264.8	287.8
82.5°	53.7	107.5	184.2	241.8	264.8
85°	28.8	86.3	163.1	220.7	241.8
87.5°	9.6	67.2	142.0	199.6	220.7
90°	0.0	51.8	124.7	178.4	201.5
92.5°	0.0	40.3	109.4	161.2	182.3
95°	0.0	32.6	94.0	143.9	165.0
97.5°	0.0	26.9	82.5	128.6	147.7
100°	0.0	21.1	71.0	115.1	132.4
102.5°	0.0	17.3	61.4	101.7	119.0
105°	0.0	11.5	51.8	90.2	105.5
107.5°	0.0	9.6	44.1	80.6	94.0
110°	0.0	7.7	40.3	69.1	82.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	5.8	36.5	61.4	74.8
115°	0.0	5.8	30.7	55.6	65.2
117.5°	0.0	5.8	26.9	49.9	59.5
120°	0.0	3.8	24.9	44.1	53.7
122.5°	0.0	3.8	21.1	40.3	48.0
125°	0.0	3.8	19.2	36.5	42.2
127.5°	0.0	1.9	17.3	32.6	38.4
130°	0.0	1.9	15.4	28.8	34.5
132.5°	0.0	1.9	13.4	26.9	32.6
135°	0.0	0.0	11.5	23.0	28.8
137.5°	0.0	0.0	9.6	21.1	24.9
140°	0.0	0.0	7.7	17.3	23.0
142.5°	0.0	0.0	5.8	15.4	19.2
145°	0.0	0.0	5.8	13.4	15.4
147.5°	0.0	0.0	3.8	9.6	13.4
150°	0.0	0.0	1.9	7.7	9.6
152.5°	0.0	0.0	0.0	5.8	7.7
155°	0.0	0.0	0.0	3.8	5.8
157.5°	0.0	0.0	0.0	0.0	1.9
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	14.92	16.46	15.39	16.92	17.40	16.98	18.52	17.45	18.97	19.46
	3H	16.42	17.82	16.90	18.29	18.81	19.45	20.86	19.94	21.32	21.85
	4H	16.90	18.23	17.40	18.71	19.25	20.66	21.99	21.16	22.48	23.01
	6H	17.18	18.42	17.69	18.91	19.47	21.93	23.17	22.45	23.67	24.22
	8H	17.23	18.42	17.75	18.94	19.49	22.60	23.78	23.12	24.30	24.86
	12H	17.24	18.38	17.77	18.89	19.48	23.33	24.47	23.86	24.98	25.57
4H	2H	15.81	17.14	16.31	17.62	18.16	17.41	18.74	17.91	19.23	19.76
	3H	17.54	18.68	18.06	19.20	19.76	20.11	21.25	20.63	21.77	22.33
	4H	18.14	19.18	18.68	19.72	20.31	21.49	22.53	22.03	23.07	23.66
	6H	18.54	19.46	19.10	20.02	20.63	22.95	23.87	23.51	24.43	25.04
	8H	18.64	19.50	19.20	20.06	20.68	23.72	24.58	24.28	25.15	25.77
	12H	18.68	19.46	19.26	20.06	20.68	24.58	25.36	25.16	25.95	26.58
8H	4H	18.83	19.70	19.39	20.26	20.88	21.71	22.57	22.27	23.13	23.75
	6H	19.41	20.14	20.00	20.75	21.37	23.34	24.07	23.93	24.67	25.30
	8H	19.59	20.25	20.20	20.87	21.51	24.25	24.91	24.85	25.52	26.16
	12H	19.71	20.30	20.31	20.90	21.61	25.29	25.88	25.90	26.48	27.19
12H	4H	19.03	19.81	19.61	20.40	21.03	21.72	22.50	22.30	23.09	23.71
	6H	19.71	20.37	20.31	20.99	21.62	23.37	24.04	23.98	24.65	25.29
	8H	19.99	20.58	20.60	21.18	21.89	24.35	24.94	24.96	25.54	26.25

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

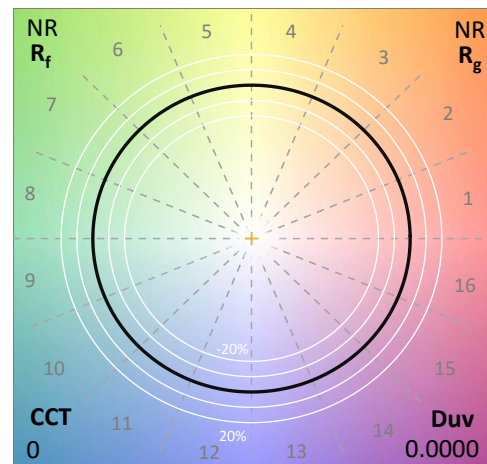
Test Information

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
 CIE u' : 0.5395
 CIE v' : 0.5190
 Duv: 0.0000
 CIE x: 0.7004
 CIE y: 0.2995
 CIE z: 0.0001
 Peak Wavelength (nm): 638
 Dominant Wavelength (nm): 624
 Purity: 99.9862
 Rf: NR
 Rg: NR

CRI (Ra): 0.0
 R1: 0.0
 R2: 0.0
 R3: 0.0
 R4: 0.0
 R5: 0.0
 R6: 0.0
 R7: 0.0
 R8: 0.0
 R9: 0.0
 R10: 0.0
 R11: 0.0
 R12: 0.0
 R13: 0.0
 R14: 0.0
 R15: 0.0

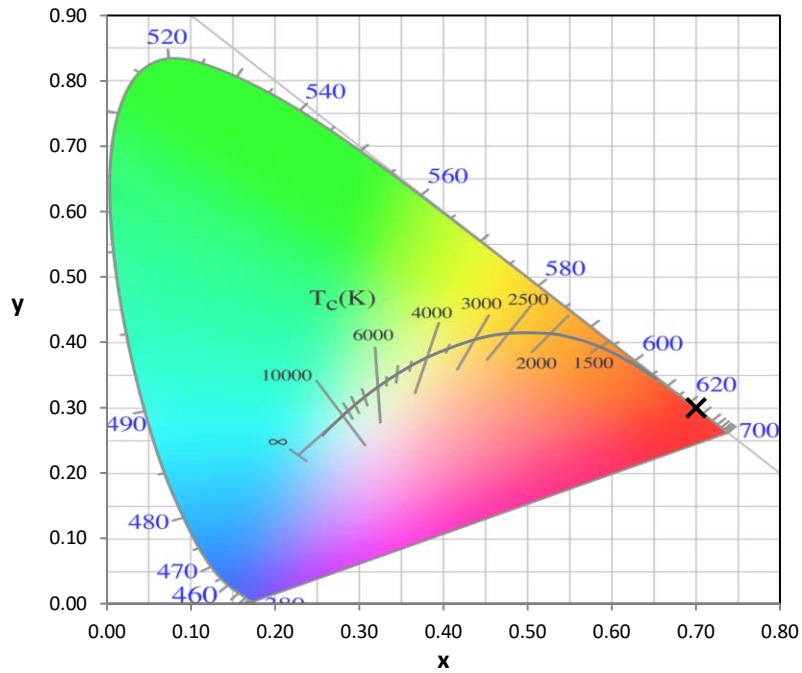


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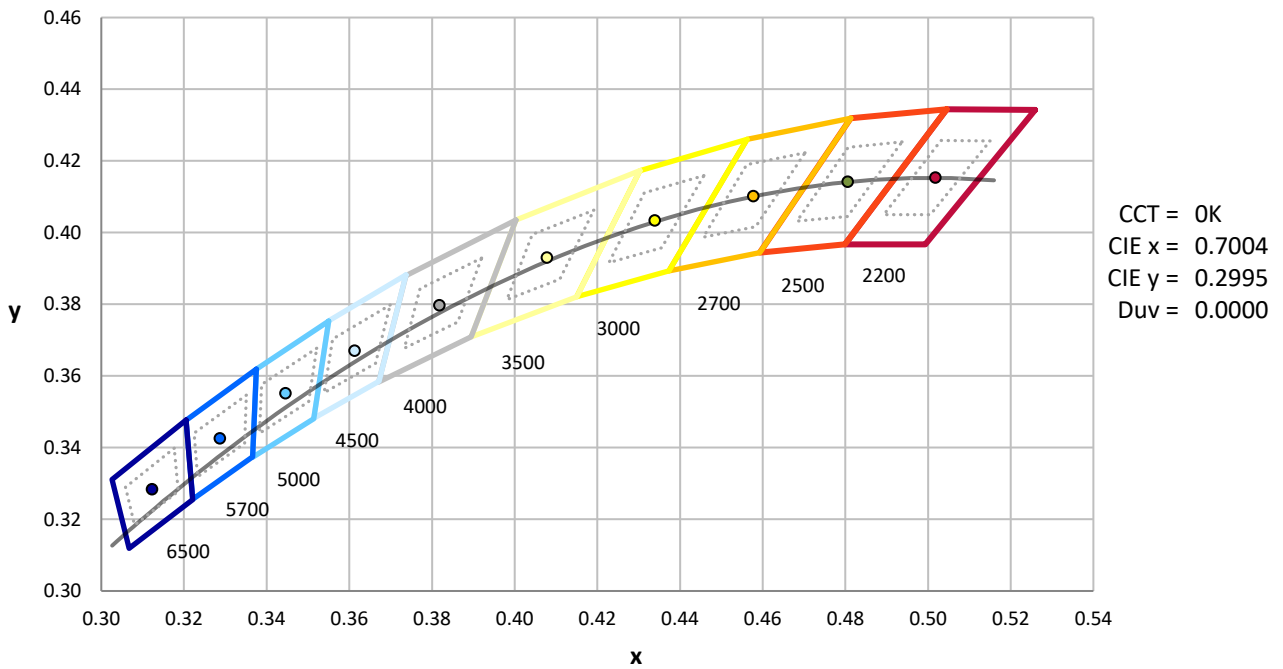
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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



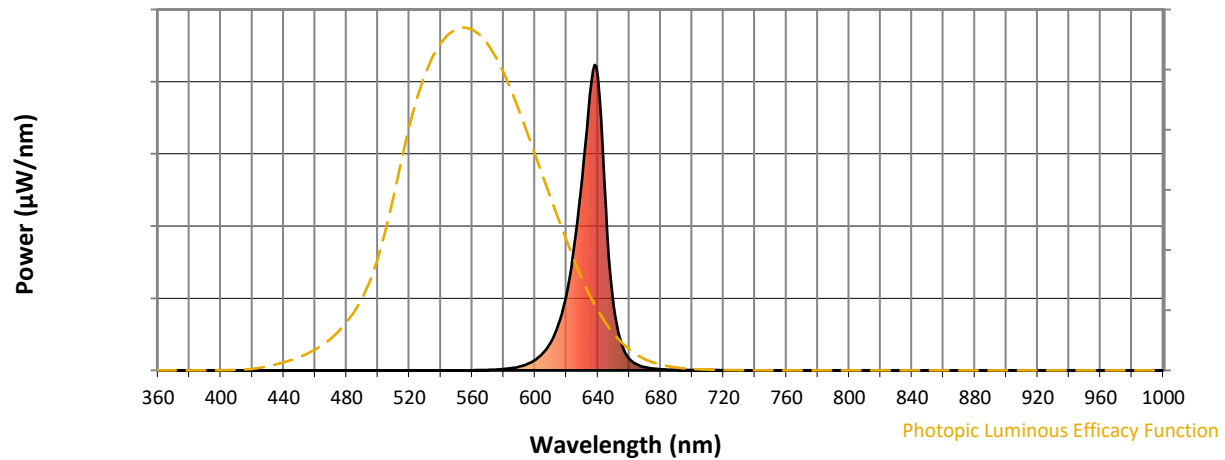
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



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

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Photopic Flux vs. Wavelength

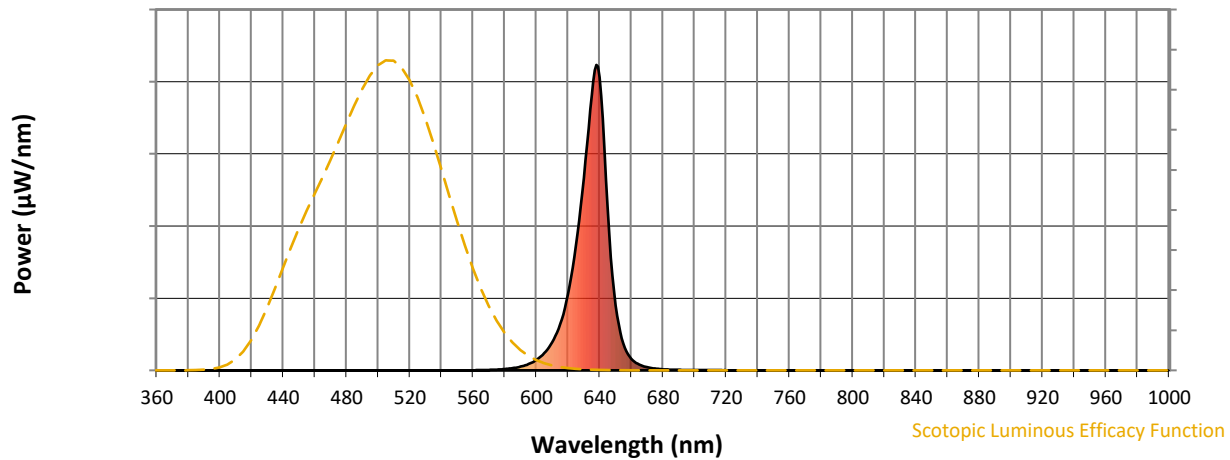


Photopic Lumens: NR

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	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



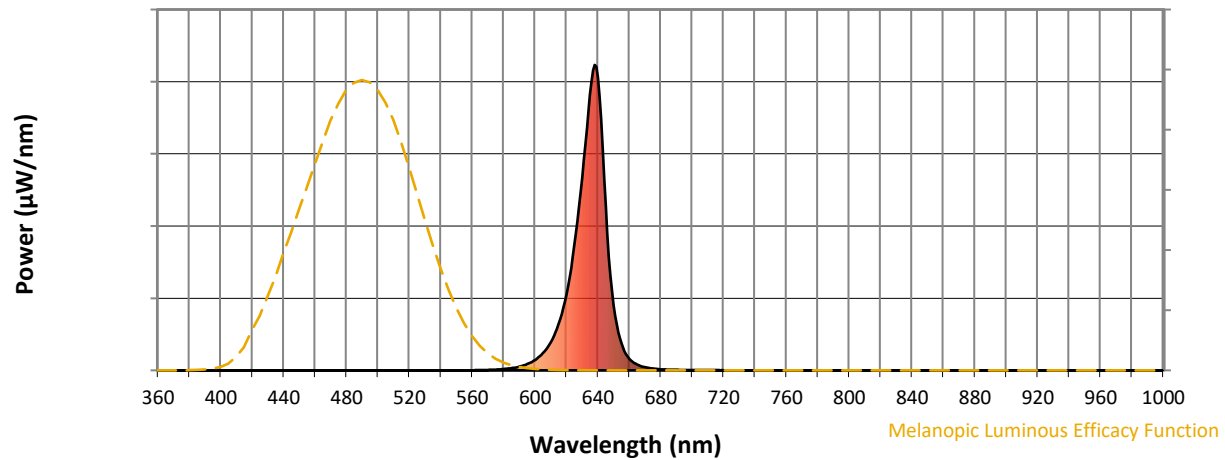
Scotopic Lumens: NR

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

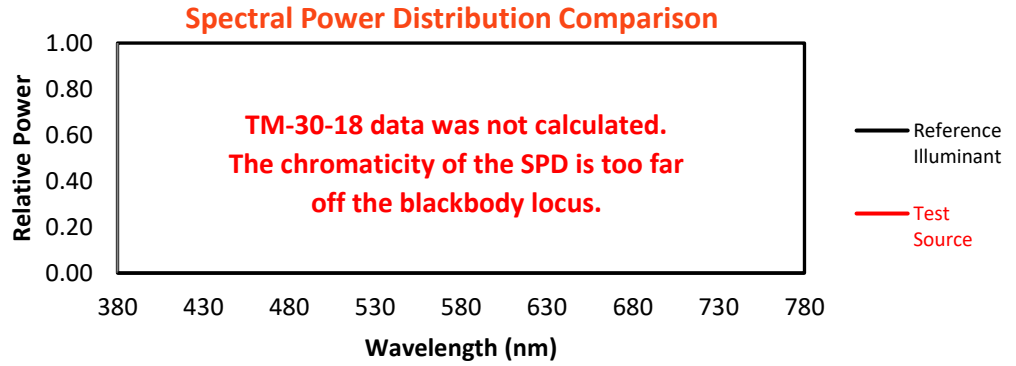
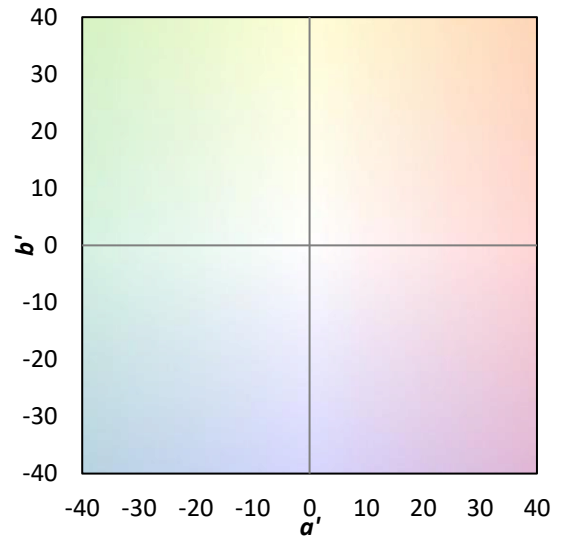
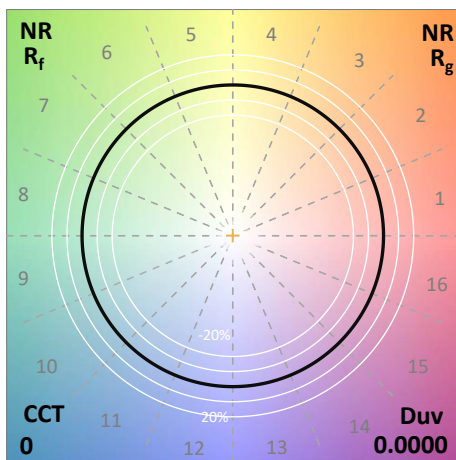
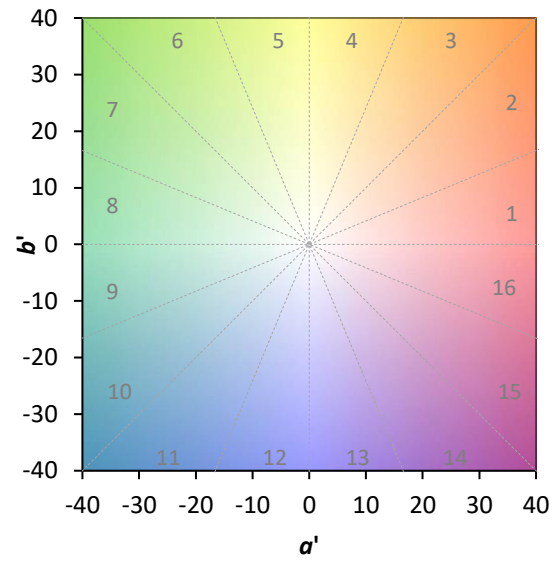
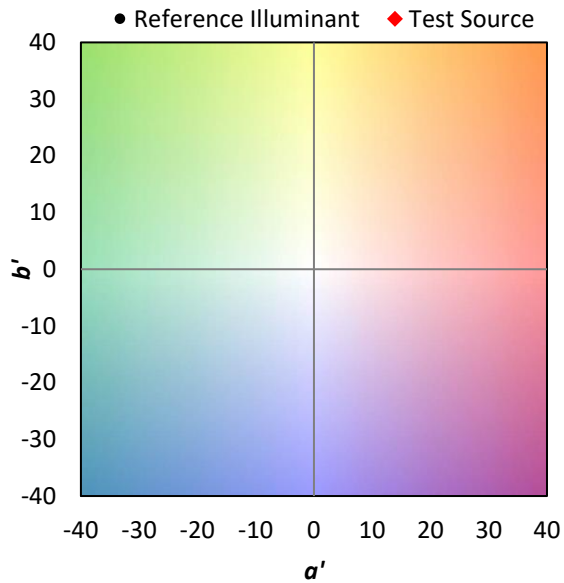


Melanopic Lumens: NR

M/P: 0.02

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	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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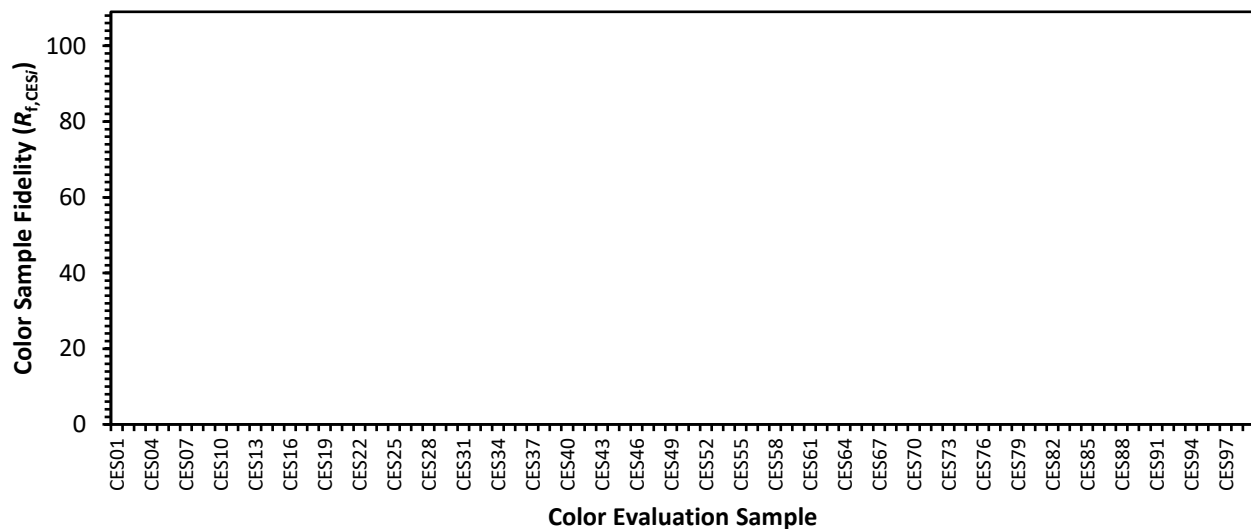
TM-30-18
Summary
 $R_f = 0$
 $R_g = 0$
 CIE $R_a = 0.0$
 $R_9 = 0.0$

Color Vector Graphics


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

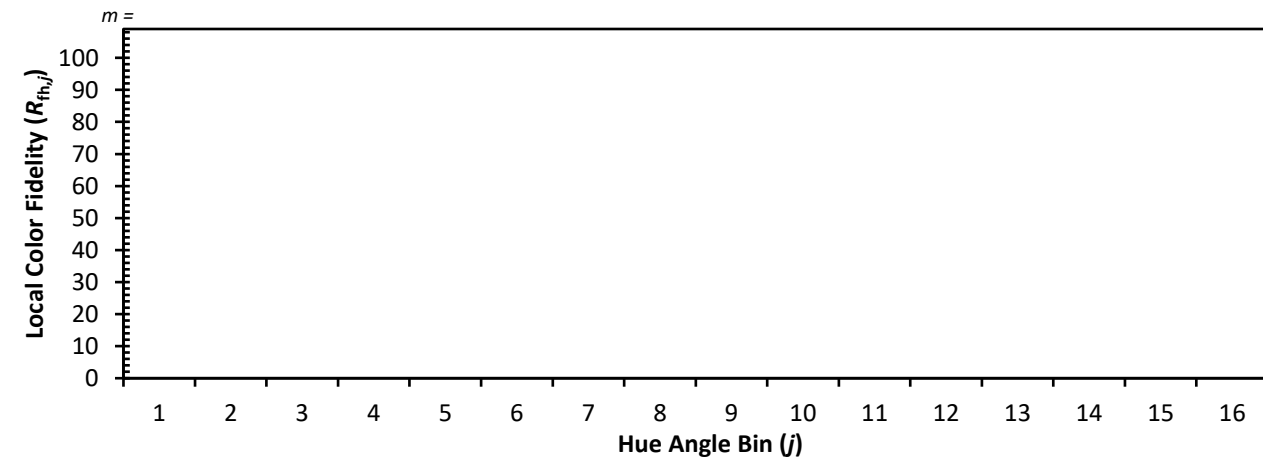
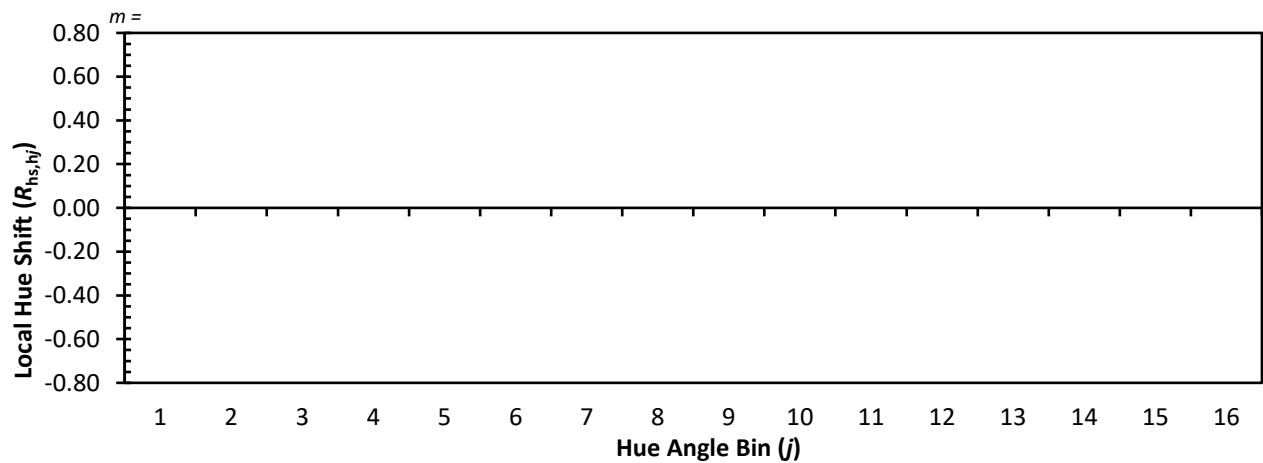
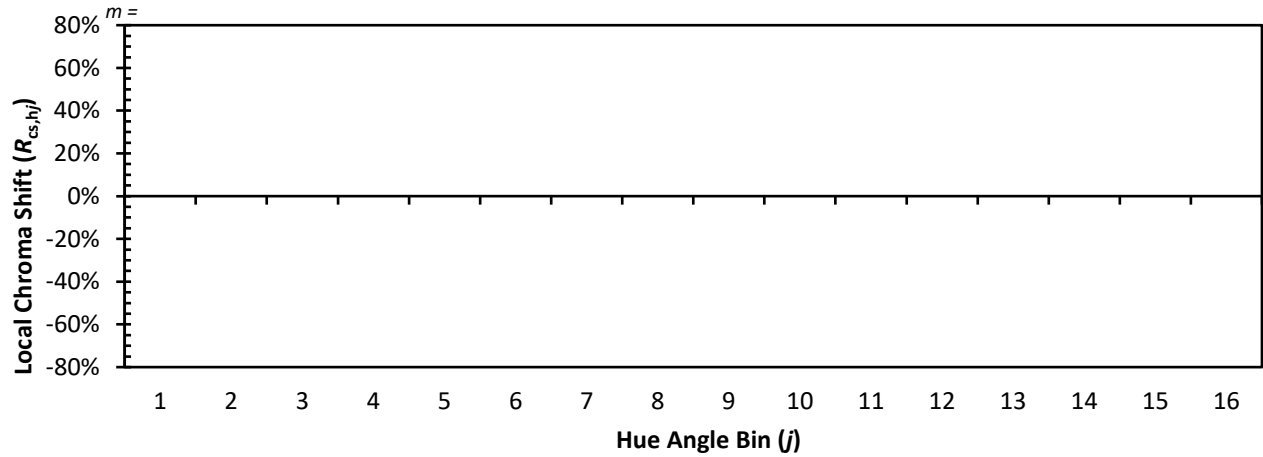
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CES04 = 0	CES29 = 0	CES54 = 0	CES79 = 0
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CES06 = 0	CES31 = 0	CES56 = 0	CES81 = 0
CES07 = 0	CES32 = 0	CES57 = 0	CES82 = 0
CES08 = 0	CES33 = 0	CES58 = 0	CES83 = 0
CES09 = 0	CES34 = 0	CES59 = 0	CES84 = 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	



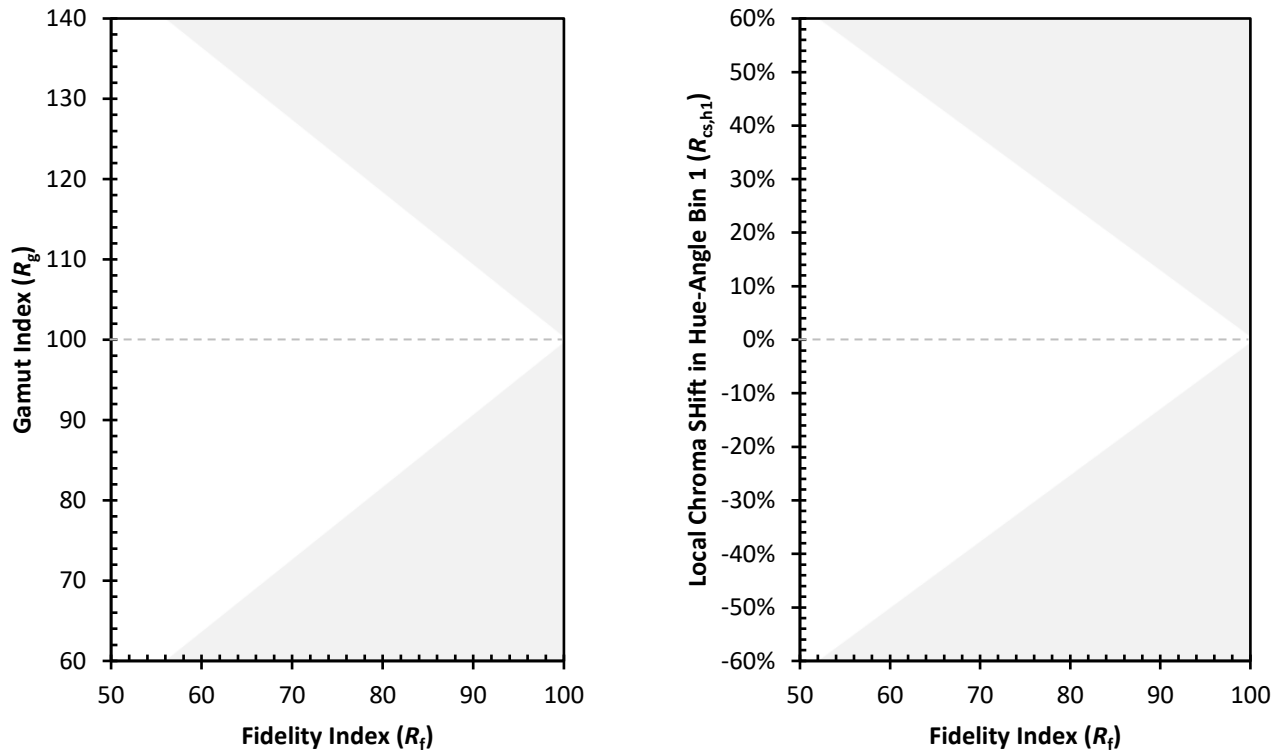
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Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)