

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: P1357535

Luminaire Tested: 8ASL4-30VHE-3-G52-UNV

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357535
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: 8ASL4-30VHE-3-G52-UNV
Description: 8FT 3000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND G52 LEDS 3 ROW
Light Source: -
Ballast/Driver: -

Summary

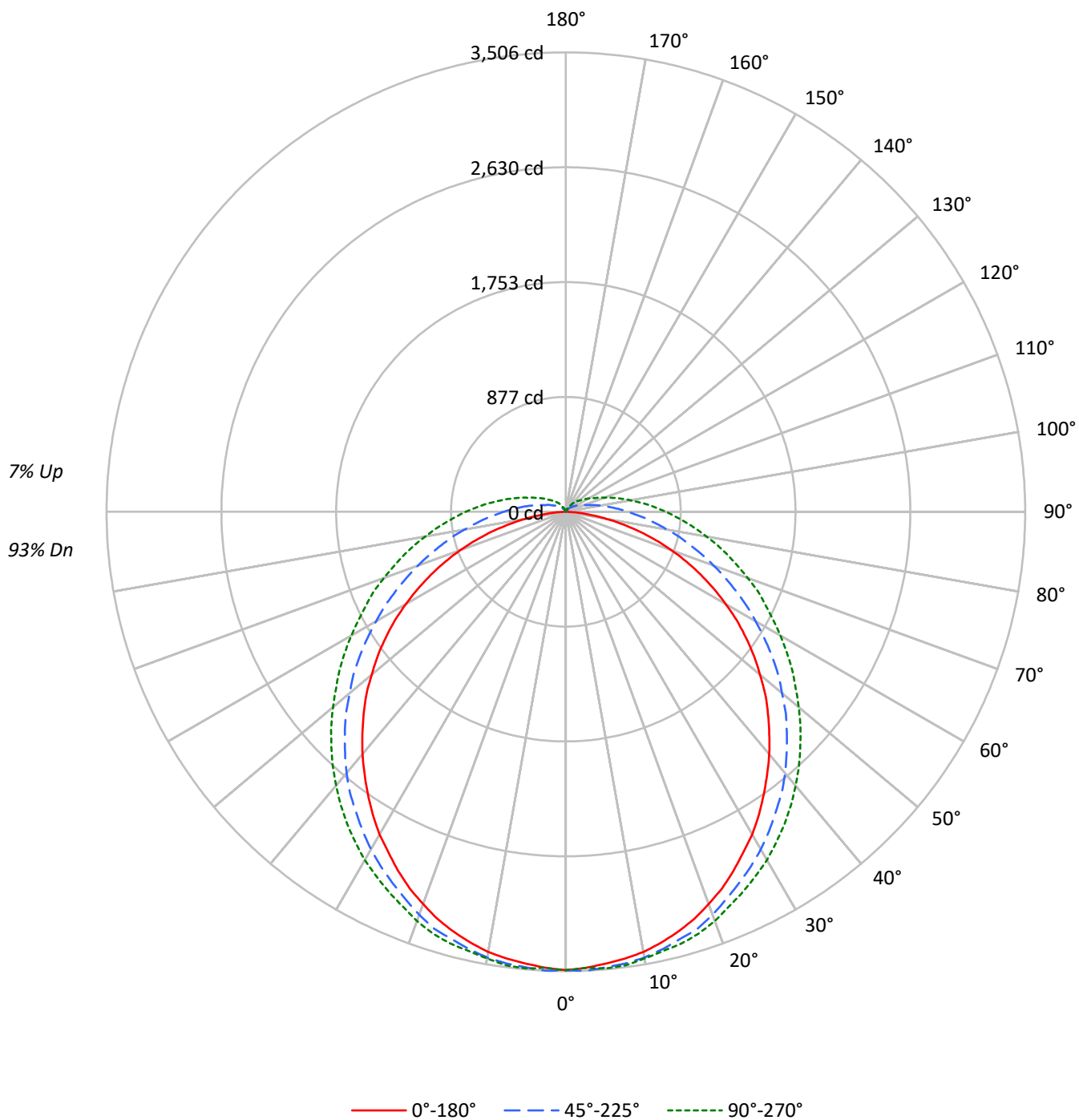
Lumens per Lamp: N/A
Luminaire Lumens: 11895.0 lumens
Efficiency: N/A
Efficacy: 49.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 7.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 242.3
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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CATALOG NUMBER: 8ASL4-30VHE-3-G52-UNV

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°	14159	14159	14159
5°	14049	13903	13834
10°	13986	13644	13484
15°	13847	13318	13188
20°	13655	13006	12853
25°	13429	12612	12473
30°	13190	12271	12151
35°	12891	11883	11793
40°	12619	11529	11416
45°	12327	11099	11037
50°	11994	10637	10644
55°	11637	10196	10290
60°	11168	9681	9931
65°	10569	9186	9633
70°	9804	8699	9400
75°	8676	8258	9240
80°	6944	7940	9172
85°	4408	7905	9307

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12327 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.7	2.8
10°-20°	952.5	8.0
20°-30°	1440.1	12.1
30°-40°	1743.8	14.7
40°-50°	1831.5	15.4
50°-60°	1708.7	14.4
60°-70°	1412.1	11.9
70°-80°	1016.8	8.5
80°-90°	631.8	5.3
90°-100°	370.2	3.1
100°-110°	211.8	1.8
110°-120°	119.6	1.0
120°-130°	68.8	0.6
130°-140°	37.1	0.3
140°-150°	15.6	0.1
150°-160°	2.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2724.4	22.9
0°-40°	4468.2	37.6
0°-60°	8008.3	67.3
0°-90°	11069.1	93.1
90°-120°	701.6	5.9
90°-150°	823.1	6.9
90°-180°	826.0	6.9
0°-180°	11895.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3498	3498	3498	3498	3498	
5°	3462	3491	3491	3491	3498	329
15°	3317	3360	3375	3397	3411	935
25°	3026	3077	3128	3171	3200	1394
35°	2633	2706	2793	2873	2909	1648
45°	2182	2262	2386	2488	2531	1683
55°	1680	1775	1920	2058	2109	1501
65°	1135	1244	1433	1615	1680	1123
75°	582	727	982	1193	1280	615
85°	109	327	618	836	916	133
90°	0	196	473	676	764	5
95°	0	124	356	546	626	0
105°	0	44	196	342	400	0
115°	0	22	116	211	247	0
125°	0	14	73	138	160	0
135°	0	0	44	87	109	0
145°	0	0	22	51	58	0
155°	0	0	0	14	22	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°	3498.5	3498.5	3498.5	3498.5	3498.5
2.5°	3483.9	3505.8	3505.8	3483.9	3483.9
5°	3462.1	3491.2	3491.2	3491.2	3498.5
7.5°	3440.3	3476.7	3476.7	3476.7	3491.2
10°	3411.2	3447.6	3454.8	3454.8	3462.1
12.5°	3367.6	3411.2	3418.5	3425.7	3433.0
15°	3316.6	3360.3	3374.8	3396.7	3411.2
17.5°	3258.5	3309.4	3338.5	3360.3	3374.8
20°	3185.7	3236.6	3273.0	3302.1	3323.9
22.5°	3113.0	3156.6	3200.3	3236.6	3258.5
25°	3025.7	3076.6	3127.5	3171.2	3200.3
27.5°	2931.2	2989.3	3054.8	3105.7	3134.8
30°	2843.9	2902.1	2974.8	3040.3	3069.4
32.5°	2742.1	2807.5	2887.5	2953.0	2989.3
35°	2633.0	2705.7	2793.0	2873.0	2909.3
37.5°	2523.9	2596.6	2705.7	2785.7	2822.1
40°	2414.8	2487.5	2603.9	2691.1	2727.5
42.5°	2298.4	2371.1	2494.8	2589.3	2633.0
45°	2182.0	2262.0	2385.7	2487.5	2531.1
47.5°	2065.6	2145.6	2276.6	2385.7	2429.3
50°	1934.7	2022.0	2152.9	2276.6	2320.2
52.5°	1811.1	1898.3	2043.8	2167.5	2211.1
55°	1680.1	1774.7	1920.2	2058.4	2109.3
57.5°	1549.2	1643.8	1796.5	1942.0	2000.2
60°	1411.0	1512.9	1672.9	1825.6	1891.1
62.5°	1272.8	1381.9	1556.5	1716.5	1782.0
65°	1134.6	1243.7	1432.8	1614.7	1680.1
67.5°	996.4	1112.8	1316.5	1505.6	1585.6
70°	858.3	981.9	1200.1	1396.5	1476.5
72.5°	720.1	851.0	1091.0	1294.7	1374.7
75°	581.9	727.3	981.9	1192.8	1280.1
77.5°	443.7	611.0	887.3	1098.3	1185.6
80°	320.0	509.1	785.5	1003.7	1091.0
82.5°	203.7	407.3	698.2	916.4	1003.7
85°	109.1	327.3	618.2	836.4	916.4
87.5°	36.4	254.6	538.2	756.4	836.4
90°	0.0	196.4	472.8	676.4	763.7
92.5°	0.0	152.7	414.6	611.0	691.0
95°	0.0	123.6	356.4	545.5	625.5
97.5°	0.0	101.8	312.8	487.3	560.0
100°	0.0	80.0	269.1	436.4	501.9
102.5°	0.0	65.5	232.7	385.5	450.9
105°	0.0	43.6	196.4	341.8	400.0
107.5°	0.0	36.4	167.3	305.5	356.4
110°	0.0	29.1	152.7	261.8	312.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	21.8	138.2	232.7	283.7
115°	0.0	21.8	116.4	210.9	247.3
117.5°	0.0	21.8	101.8	189.1	225.5
120°	0.0	14.5	94.6	167.3	203.7
122.5°	0.0	14.5	80.0	152.7	181.8
125°	0.0	14.5	72.7	138.2	160.0
127.5°	0.0	7.3	65.5	123.6	145.5
130°	0.0	7.3	58.2	109.1	130.9
132.5°	0.0	7.3	50.9	101.8	123.6
135°	0.0	0.0	43.6	87.3	109.1
137.5°	0.0	0.0	36.4	80.0	94.6
140°	0.0	0.0	29.1	65.5	87.3
142.5°	0.0	0.0	21.8	58.2	72.7
145°	0.0	0.0	21.8	50.9	58.2
147.5°	0.0	0.0	14.5	36.4	50.9
150°	0.0	0.0	7.3	29.1	36.4
152.5°	0.0	0.0	0.0	21.8	29.1
155°	0.0	0.0	0.0	14.5	21.8
157.5°	0.0	0.0	0.0	0.0	7.3
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	18.56	20.10	19.03	20.55	21.03	20.62	22.16	21.09	22.62	23.10
	3H	20.05	21.46	20.53	21.92	22.45	23.11	24.51	23.59	24.98	25.50
	4H	20.53	21.86	21.03	22.35	22.88	24.32	25.65	24.82	26.13	26.67
	6H	20.81	22.05	21.32	22.54	23.10	25.60	26.84	26.12	27.34	27.89
	8H	20.86	22.05	21.39	22.57	23.13	26.27	27.46	26.80	27.98	28.54
	12H	20.87	22.01	21.41	22.53	23.12	27.02	28.16	27.55	28.67	29.26
4H	2H	19.44	20.77	19.94	21.25	21.79	21.06	22.39	21.56	22.87	23.41
	3H	21.18	22.31	21.69	22.84	23.40	23.76	24.90	24.28	25.42	25.99
	4H	21.78	22.82	22.31	23.35	23.95	25.15	26.19	25.68	26.72	27.32
	6H	22.18	23.09	22.73	23.66	24.26	26.62	27.54	27.18	28.10	28.71
	8H	22.27	23.13	22.83	23.70	24.32	27.40	28.26	27.96	28.82	29.44
	12H	22.32	23.10	22.90	23.69	24.31	28.27	29.05	28.85	29.64	30.27
8H	4H	22.47	23.33	23.03	23.90	24.51	25.36	26.23	25.92	26.79	27.41
	6H	23.05	23.78	23.64	24.39	25.01	27.00	27.74	27.60	28.34	28.97
	8H	23.23	23.89	23.84	24.51	25.14	27.92	28.58	28.52	29.20	29.83
	12H	23.35	23.94	23.95	24.54	25.24	28.98	29.57	29.58	30.17	30.87
12H	4H	22.67	23.45	23.25	24.04	24.67	25.37	26.16	25.95	26.75	27.37
	6H	23.35	24.01	23.95	24.63	25.26	27.04	27.70	27.65	28.32	28.95
	8H	23.63	24.22	24.24	24.82	25.53	28.03	28.61	28.63	29.22	29.92

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

Report Prepared for

Cooper Lighting Solutions

Fail-Safe

Report Number: SP1-2511-597-8

Test Date: 01/22/2026

Luminaire Tested: 4ASL-2-G520-UNV-OPL-1_600mA

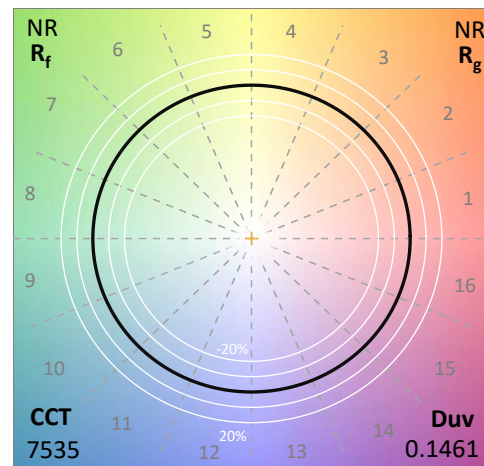
Data in this report applies to families of products including 4ASL

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2511-597-8
 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-G520-UNV-OPL-1_600mA**
 Description: 2foot 4ASL LED LUMINAIRE WITH OPL LENS AND GREEN 520NM LEDS with 1 rows at 600mA

Spectral Parameters

CCT (K):	7535	CRI (Ra):	-11.7		
CIE u':	0.0718	R1:	-30.6	R9:	-351.9
CIE v':	0.5710	R2:	5.1	R10:	-75.5
Duv:	0.1461	R3:	5.6	R11:	-78.0
CIE x:	0.1962	R4:	-51.7	R12:	-14.7
CIE y:	0.6931	R5:	-6.4	R13:	-32.5
CIE z:	0.1107	R6:	-0.6	R14:	52.7
Peak Wavelength (nm):	524	R7:	10.9	R15:	-37.0
Dominant Wavelength (nm):	529	R8:	-25.8		
Purity:	75.95236				
Rf:	NR				
Rg:	NR				



Test Conditions

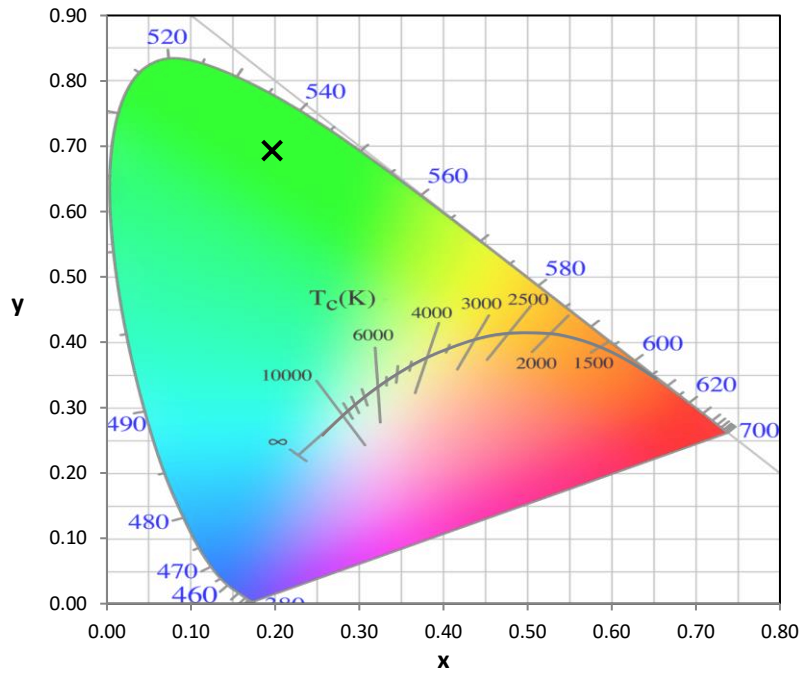
Stabilization Time: 48M
 Operation Time: 1H 48M
 Sphere Temperature (°C): 25.1

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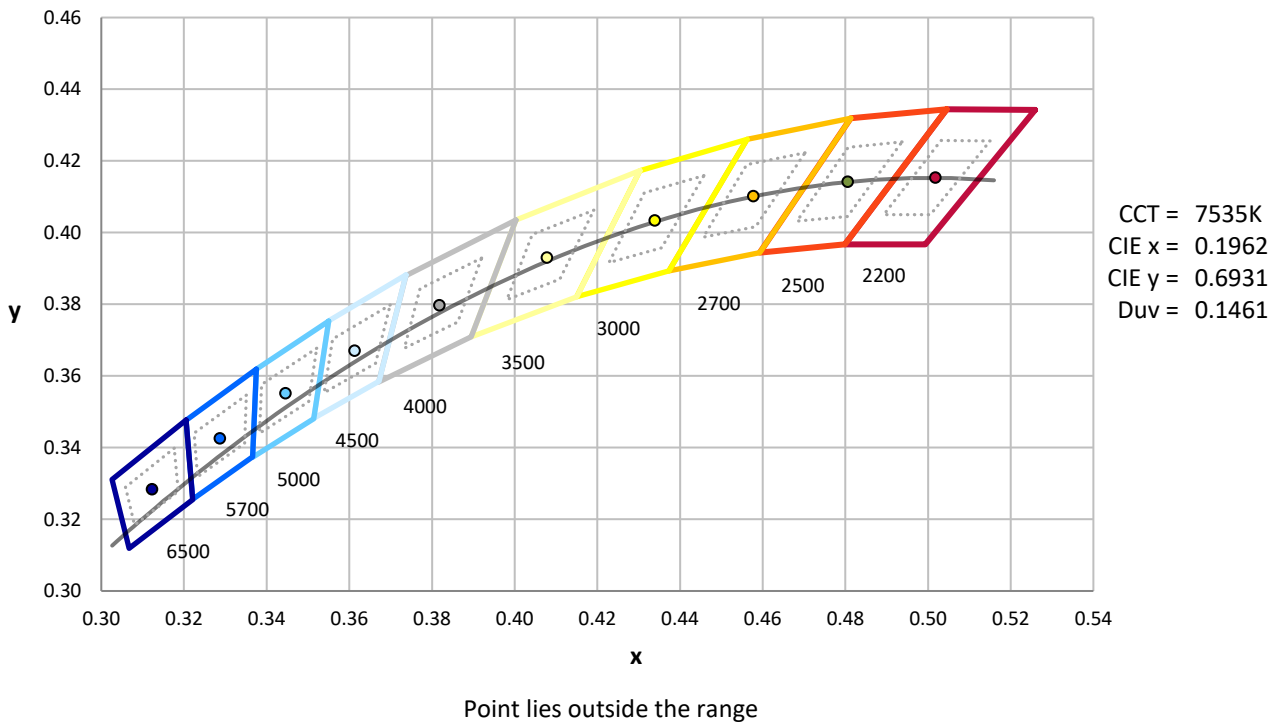
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	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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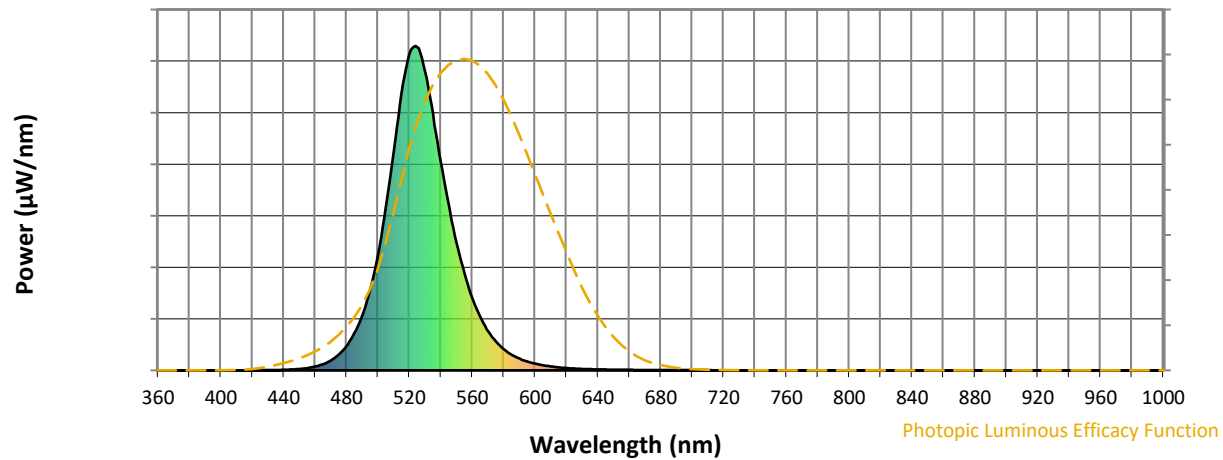
CIE 1931 Chromaticity Diagram



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



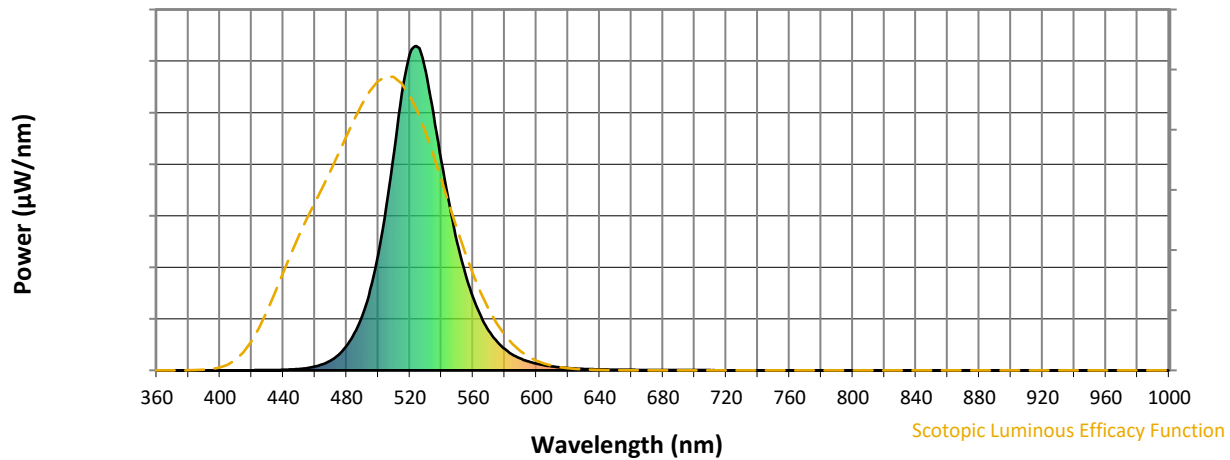
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Photopic Flux vs. Wavelength

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	169	NR	620	7	NR	750	0	NR	880	0	NR
365	0	NR	495	249	NR	625	6	NR	755	0	NR	885	0	NR
370	0	NR	500	356	NR	630	4	NR	760	0	NR	890	0	NR
375	0	NR	505	502	NR	635	4	NR	765	0	NR	895	0	NR
380	0	NR	510	674	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	853	NR	645	3	NR	775	0	NR	905	0	NR
390	0	NR	520	976	NR	650	2	NR	780	0	NR	910	0	NR
395	0	NR	525	996	NR	655	2	NR	785	0	NR	915	0	NR
400	0	NR	530	920	NR	660	2	NR	790	0	NR	920	0	NR
405	0	NR	535	792	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	642	NR	670	1	NR	800	0	NR	930	0	NR
415	0	NR	545	511	NR	675	1	NR	805	0	NR	935	0	NR
420	0	NR	550	394	NR	680	1	NR	810	0	NR	940	0	NR
425	1	NR	555	300	NR	685	1	NR	815	0	NR	945	0	NR
430	1	NR	560	224	NR	690	1	NR	820	0	NR	950	0	NR
435	1	NR	565	166	NR	695	1	NR	825	0	NR	955	0	NR
440	2	NR	570	122	NR	700	1	NR	830	0	NR	960	0	NR
445	3	NR	575	90	NR	705	1	NR	835	0	NR	965	0	NR
450	4	NR	580	66	NR	710	1	NR	840	0	NR	970	0	NR
455	7	NR	585	48	NR	715	0	NR	845	0	NR	975	0	NR
460	12	NR	590	36	NR	720	0	NR	850	0	NR	980	0	NR
465	19	NR	595	27	NR	725	0	NR	855	0	NR	985	0	NR
470	31	NR	600	21	NR	730	0	NR	860	0	NR	990	0	NR
475	49	NR	605	16	NR	735	0	NR	865	0	NR	995	0	NR
480	75	NR	610	12	NR	740	0	NR	870	0	NR	1000	0	NR
485	115	NR	615	9	NR	745	0	NR	875	0	NR			

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Scotopic Flux vs. Wavelength



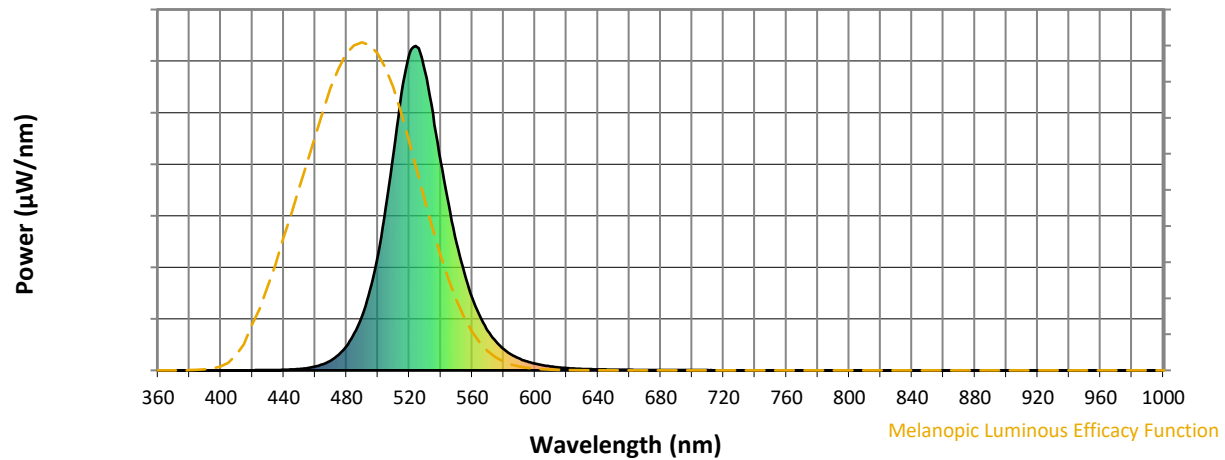
Scotopic Lumens: NR

S/P: 2.63

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	169	NR	620	7	NR	750	0	NR	880	0	NR
365	0	NR	495	249	NR	625	6	NR	755	0	NR	885	0	NR
370	0	NR	500	356	NR	630	4	NR	760	0	NR	890	0	NR
375	0	NR	505	502	NR	635	4	NR	765	0	NR	895	0	NR
380	0	NR	510	674	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	853	NR	645	3	NR	775	0	NR	905	0	NR
390	0	NR	520	976	NR	650	2	NR	780	0	NR	910	0	NR
395	0	NR	525	996	NR	655	2	NR	785	0	NR	915	0	NR
400	0	NR	530	920	NR	660	2	NR	790	0	NR	920	0	NR
405	0	NR	535	792	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	642	NR	670	1	NR	800	0	NR	930	0	NR
415	0	NR	545	511	NR	675	1	NR	805	0	NR	935	0	NR
420	0	NR	550	394	NR	680	1	NR	810	0	NR	940	0	NR
425	1	NR	555	300	NR	685	1	NR	815	0	NR	945	0	NR
430	1	NR	560	224	NR	690	1	NR	820	0	NR	950	0	NR
435	1	NR	565	166	NR	695	1	NR	825	0	NR	955	0	NR
440	2	NR	570	122	NR	700	1	NR	830	0	NR	960	0	NR
445	3	NR	575	90	NR	705	1	NR	835	0	NR	965	0	NR
450	4	NR	580	66	NR	710	1	NR	840	0	NR	970	0	NR
455	7	NR	585	48	NR	715	0	NR	845	0	NR	975	0	NR
460	12	NR	590	36	NR	720	0	NR	850	0	NR	980	0	NR
465	19	NR	595	27	NR	725	0	NR	855	0	NR	985	0	NR
470	31	NR	600	21	NR	730	0	NR	860	0	NR	990	0	NR
475	49	NR	605	16	NR	735	0	NR	865	0	NR	995	0	NR
480	75	NR	610	12	NR	740	0	NR	870	0	NR	1000	0	NR
485	115	NR	615	9	NR	745	0	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 4.87

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	169	NR	620	7	NR	750	0	NR	880	0	NR
365	0	NR	495	249	NR	625	6	NR	755	0	NR	885	0	NR
370	0	NR	500	356	NR	630	4	NR	760	0	NR	890	0	NR
375	0	NR	505	502	NR	635	4	NR	765	0	NR	895	0	NR
380	0	NR	510	674	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	853	NR	645	3	NR	775	0	NR	905	0	NR
390	0	NR	520	976	NR	650	2	NR	780	0	NR	910	0	NR
395	0	NR	525	996	NR	655	2	NR	785	0	NR	915	0	NR
400	0	NR	530	920	NR	660	2	NR	790	0	NR	920	0	NR
405	0	NR	535	792	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	642	NR	670	1	NR	800	0	NR	930	0	NR
415	0	NR	545	511	NR	675	1	NR	805	0	NR	935	0	NR
420	0	NR	550	394	NR	680	1	NR	810	0	NR	940	0	NR
425	1	NR	555	300	NR	685	1	NR	815	0	NR	945	0	NR
430	1	NR	560	224	NR	690	1	NR	820	0	NR	950	0	NR
435	1	NR	565	166	NR	695	1	NR	825	0	NR	955	0	NR
440	2	NR	570	122	NR	700	1	NR	830	0	NR	960	0	NR
445	3	NR	575	90	NR	705	1	NR	835	0	NR	965	0	NR
450	4	NR	580	66	NR	710	1	NR	840	0	NR	970	0	NR
455	7	NR	585	48	NR	715	0	NR	845	0	NR	975	0	NR
460	12	NR	590	36	NR	720	0	NR	850	0	NR	980	0	NR
465	19	NR	595	27	NR	725	0	NR	855	0	NR	985	0	NR
470	31	NR	600	21	NR	730	0	NR	860	0	NR	990	0	NR
475	49	NR	605	16	NR	735	0	NR	865	0	NR	995	0	NR
480	75	NR	610	12	NR	740	0	NR	870	0	NR	1000	0	NR
485	115	NR	615	9	NR	745	0	NR	875	0	NR			

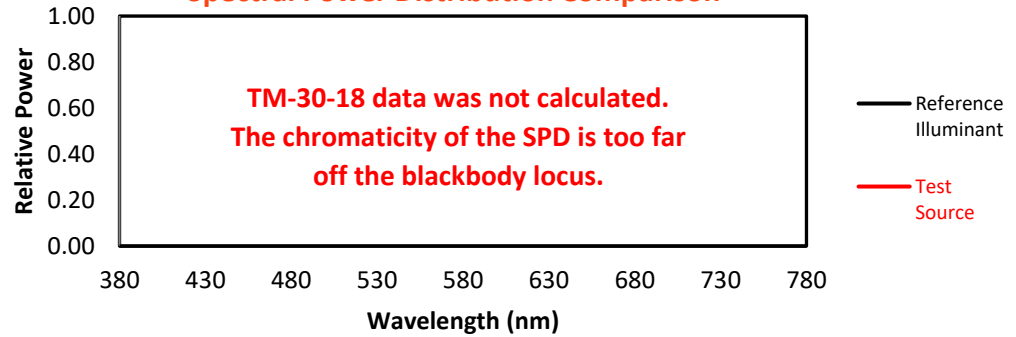
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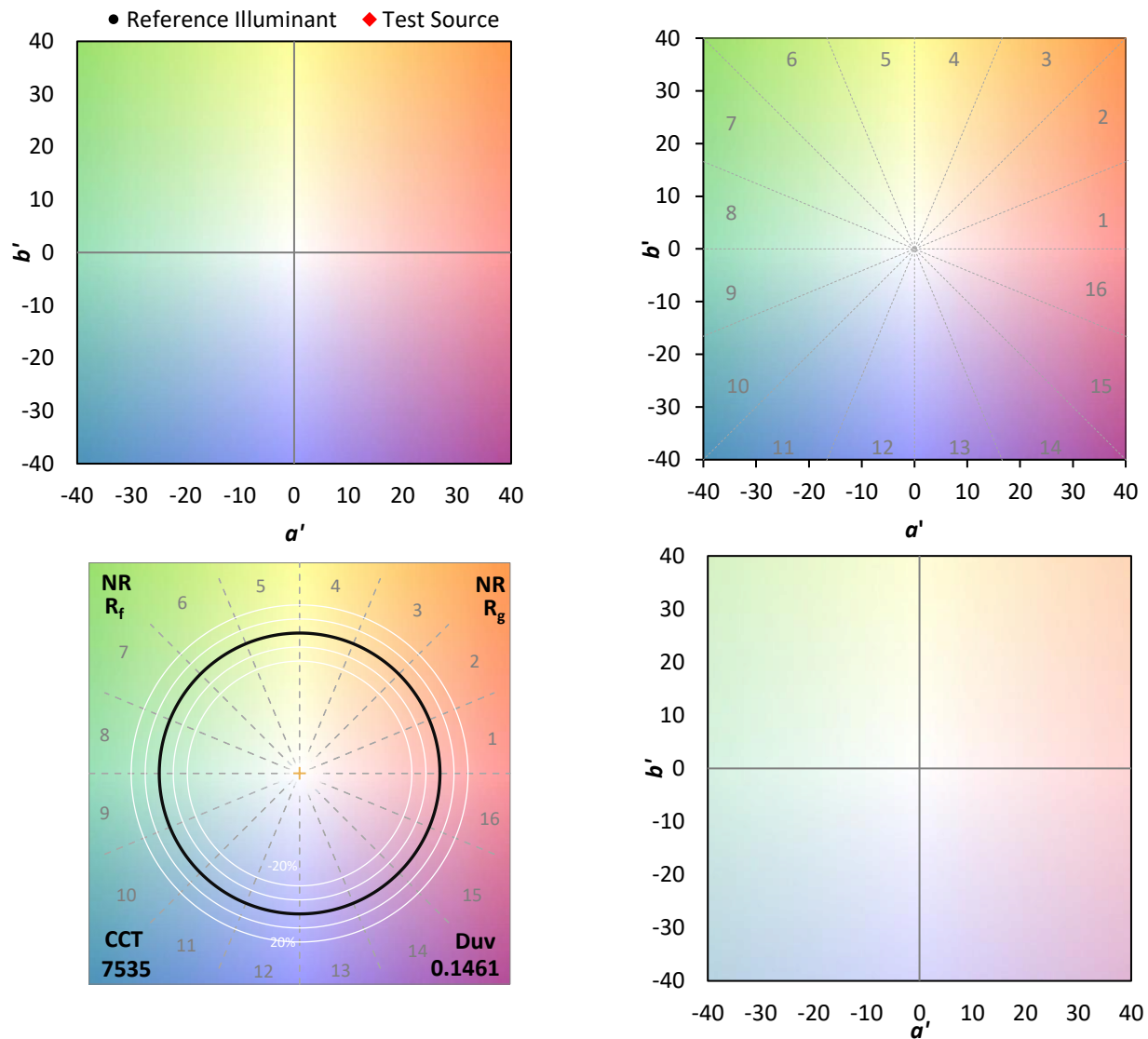
Summary

$R_f = 0$
 $R_g = 0$
 $CIE R_a = -11.7$
 $R_g = -351.9$

Spectral Power Distribution Comparison



Color Vector Graphics

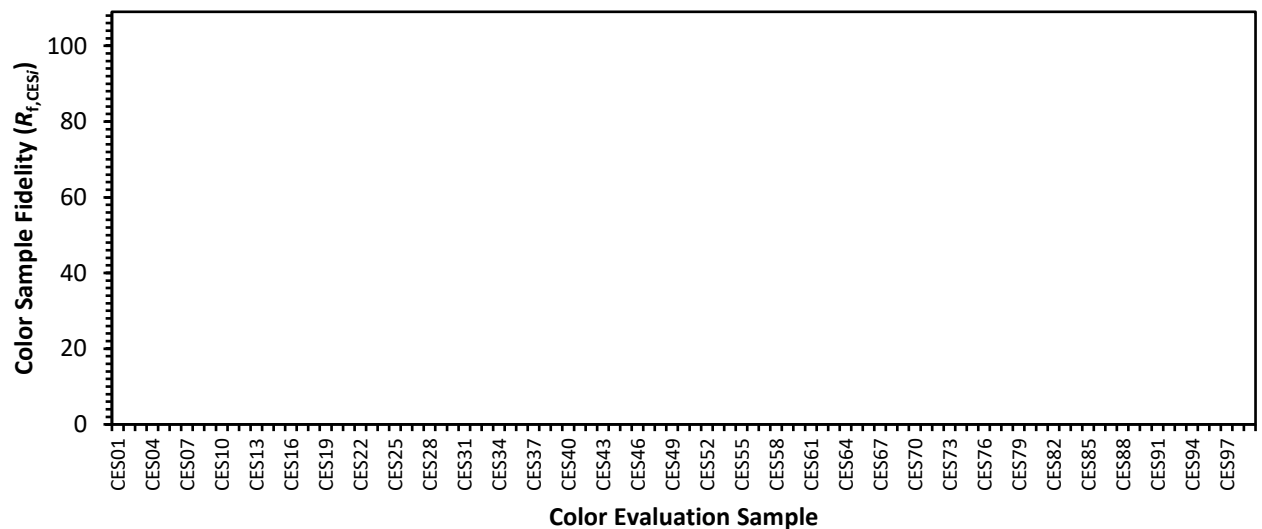


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Individual Sample Fidelity Index ($R_{f,i}$)

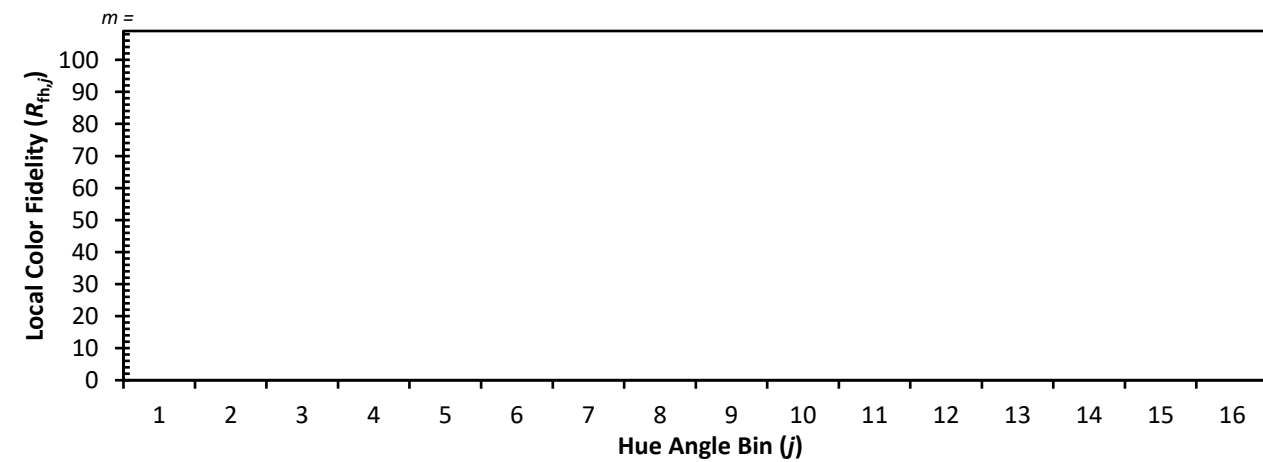
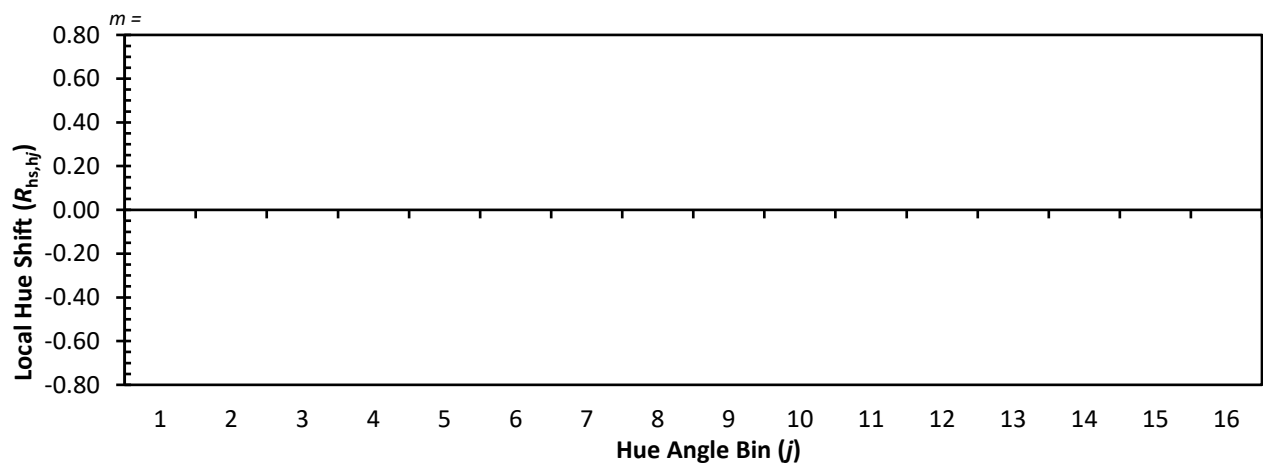
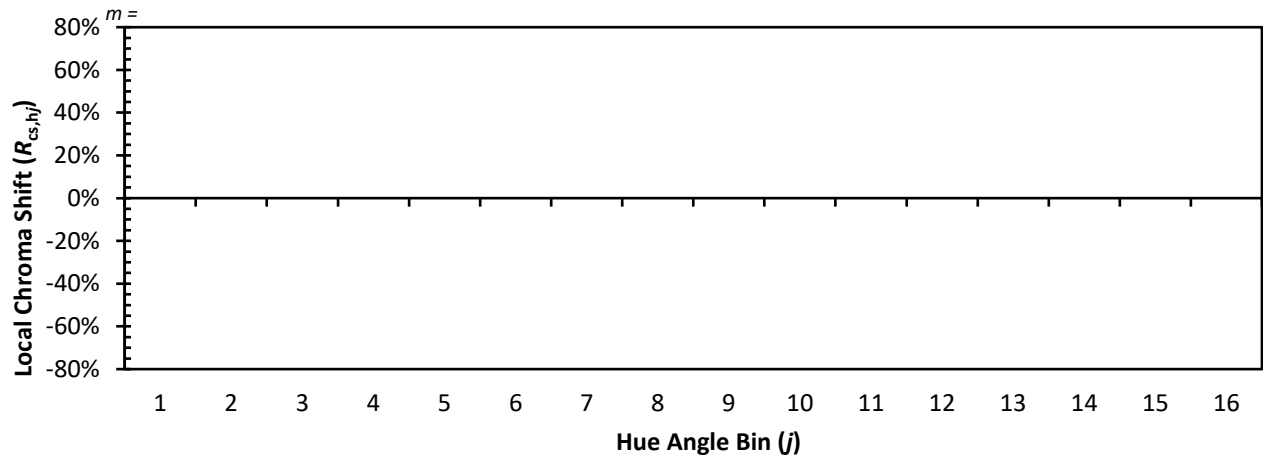
CES01 = 0	CES26 = 0	CES51 = 0	CES76 = 0
CES02 = 0	CES27 = 0	CES52 = 0	CES77 = 0
CES03 = 0	CES28 = 0	CES53 = 0	CES78 = 0
CES04 = 0	CES29 = 0	CES54 = 0	CES79 = 0
CES05 = 0	CES30 = 0	CES55 = 0	CES80 = 0
CES06 = 0	CES31 = 0	CES56 = 0	CES81 = 0
CES07 = 0	CES32 = 0	CES57 = 0	CES82 = 0
CES08 = 0	CES33 = 0	CES58 = 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	



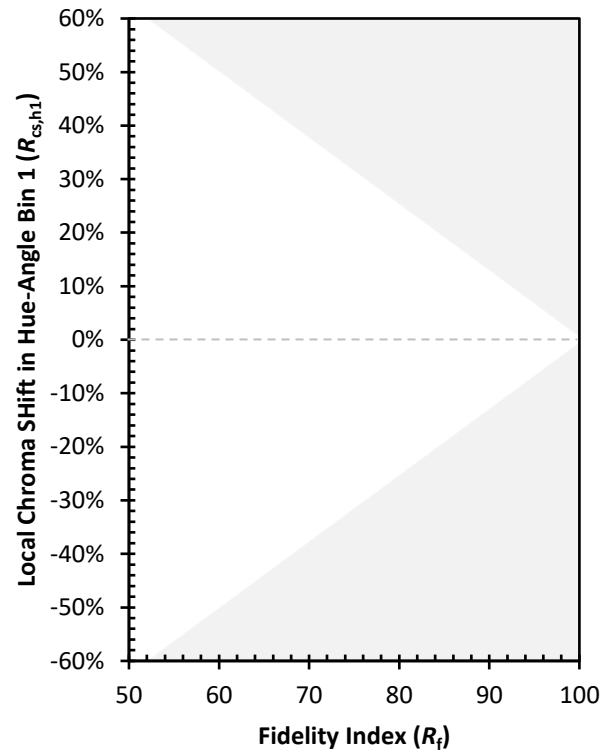
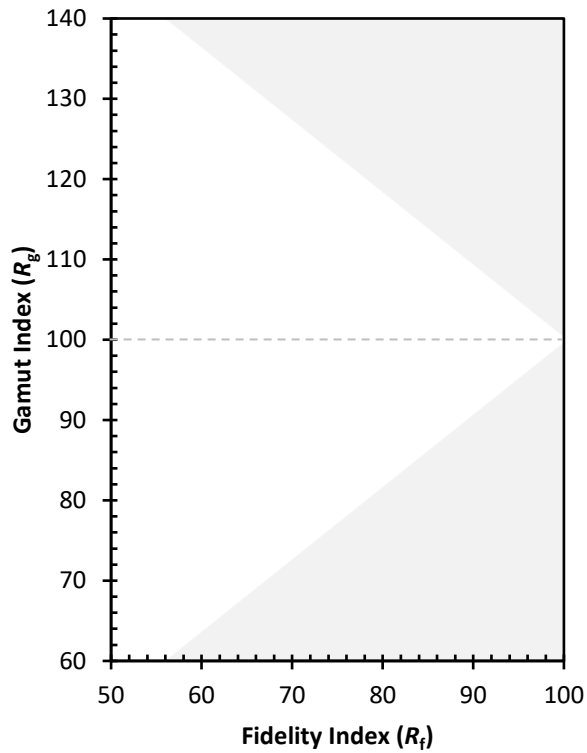
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Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)