

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: P1357544

Luminaire Tested: 8ASL4-35VHE-3-G52-UNV

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357544
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: 8ASL4-35VHE-3-G52-UNV
Description: 8FT 3500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND G52 LEDS 3 ROW
Light Source: -
Ballast/Driver: -

Summary

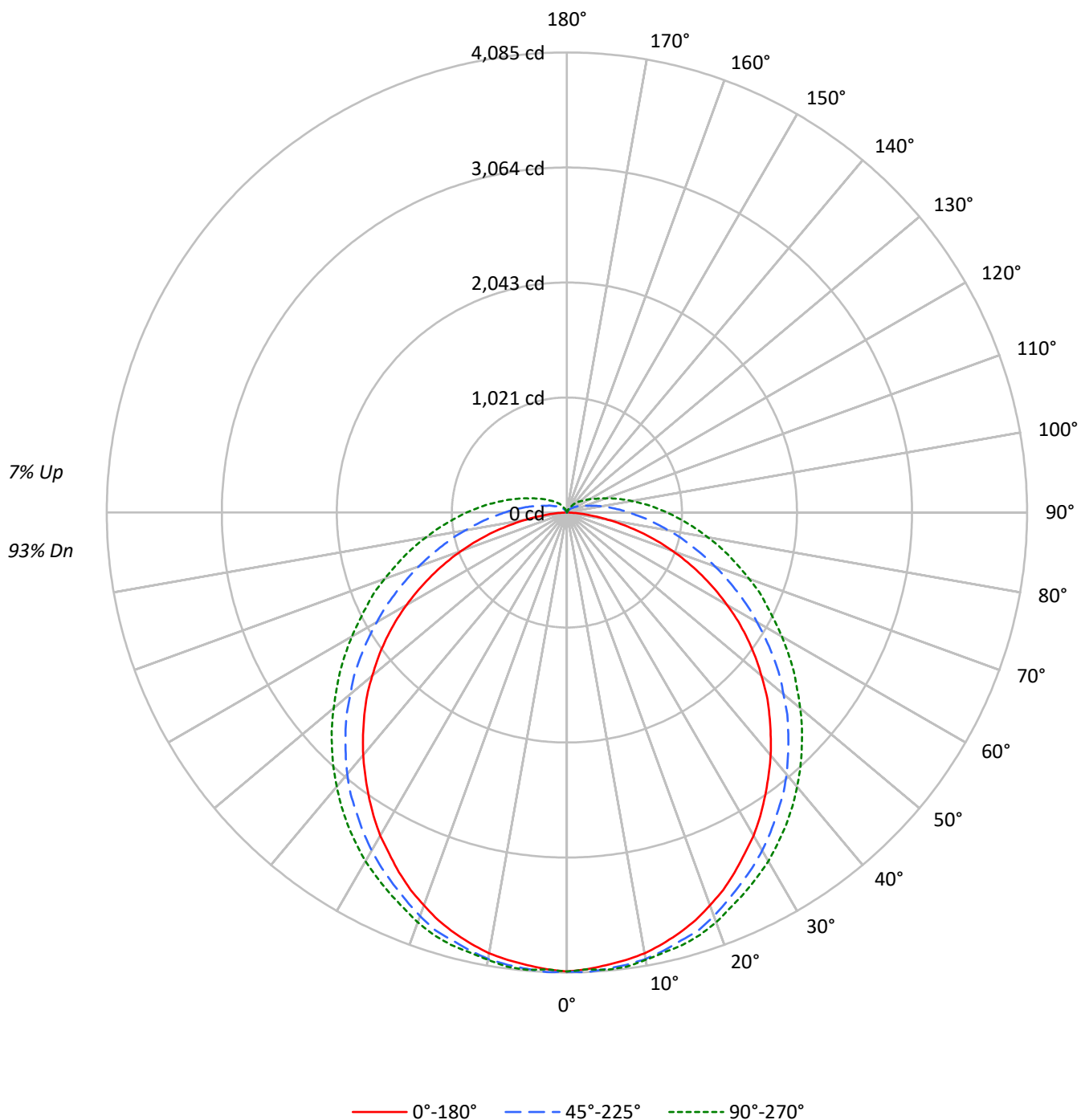
Lumens per Lamp: N/A
Luminaire Lumens: 13860.0 lumens
Efficiency: N/A
Efficacy: 47.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 7.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 291.1
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: 8ASL4-35VHE-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°	16497	16497	16497
5°	16369	16200	16120
10°	16296	15898	15712
15°	16135	15518	15367
20°	15911	15155	14977
25°	15648	14695	14533
30°	15369	14298	14158
35°	15020	13846	13741
40°	14704	13434	13302
45°	14364	12933	12861
50°	13976	12394	12402
55°	13560	11881	11990
60°	13013	11280	11572
65°	12316	10703	11225
70°	11423	10136	10953
75°	10109	9623	10767
80°	8092	9252	10687
85°	5136	9212	10845

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14364 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.5	2.8
10°-20°	1109.9	8.0
20°-30°	1678.0	12.1
30°-40°	2031.8	14.7
40°-50°	2134.0	15.4
50°-60°	1991.0	14.4
60°-70°	1645.4	11.9
70°-80°	1184.7	8.5
80°-90°	736.2	5.3
90°-100°	431.4	3.1
100°-110°	246.8	1.8
110°-120°	139.3	1.0
120°-130°	80.2	0.6
130°-140°	43.2	0.3
140°-150°	18.2	0.1
150°-160°	3.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3174.4	22.9
0°-40°	5206.3	37.6
0°-60°	9331.3	67.3
0°-90°	12897.6	93.1
90°-120°	817.5	5.9
90°-150°	959.0	6.9
90°-180°	962.0	6.9
0°-180°	13860.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4076	4076	4076	4076	4076	
5°	4034	4068	4068	4068	4076	383
15°	3864	3915	3932	3958	3975	1090
25°	3526	3585	3644	3695	3729	1624
35°	3068	3153	3254	3348	3390	1920
45°	2542	2636	2780	2898	2949	1962
55°	1958	2068	2237	2398	2458	1749
65°	1322	1449	1670	1881	1958	1308
75°	678	848	1144	1390	1492	717
85°	127	381	720	975	1068	155
90°	0	229	551	788	890	6
95°	0	144	415	636	729	0
105°	0	51	229	398	466	0
115°	0	25	136	246	288	0
125°	0	17	85	161	186	0
135°	0	0	51	102	127	0
145°	0	0	25	59	68	0
155°	0	0	0	17	25	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°	4076.4	4076.4	4076.4	4076.4	4076.4
2.5°	4059.5	4084.9	4084.9	4059.5	4059.5
5°	4034.0	4067.9	4067.9	4067.9	4076.4
7.5°	4008.6	4051.0	4051.0	4051.0	4067.9
10°	3974.7	4017.1	4025.6	4025.6	4034.0
12.5°	3923.9	3974.7	3983.2	3991.7	4000.1
15°	3864.5	3915.4	3932.3	3957.8	3974.7
17.5°	3796.7	3856.1	3890.0	3915.4	3932.3
20°	3712.0	3771.3	3813.7	3847.6	3873.0
22.5°	3627.2	3678.1	3728.9	3771.3	3796.7
25°	3525.5	3584.9	3644.2	3695.0	3728.9
27.5°	3415.4	3483.2	3559.4	3618.8	3652.7
30°	3313.7	3381.5	3466.2	3542.5	3576.4
32.5°	3195.0	3271.3	3364.5	3440.8	3483.2
35°	3067.9	3152.7	3254.3	3347.6	3389.9
37.5°	2940.8	3025.5	3152.7	3245.9	3288.2
40°	2813.7	2898.4	3034.0	3135.7	3178.1
42.5°	2678.1	2762.8	2906.9	3017.1	3067.9
45°	2542.5	2635.7	2779.8	2898.4	2949.3
47.5°	2406.9	2500.1	2652.6	2779.8	2830.6
50°	2254.3	2356.0	2508.6	2652.6	2703.5
52.5°	2110.2	2211.9	2381.4	2525.5	2576.4
55°	1957.7	2067.9	2237.4	2398.4	2457.7
57.5°	1805.1	1915.3	2093.3	2262.8	2330.6
60°	1644.1	1762.8	1949.2	2127.2	2203.5
62.5°	1483.1	1610.2	1813.6	2000.1	2076.3
65°	1322.1	1449.2	1669.5	1881.4	1957.7
67.5°	1161.1	1296.7	1534.0	1754.3	1847.5
70°	1000.0	1144.1	1398.4	1627.2	1720.4
72.5°	839.0	991.6	1271.2	1508.5	1601.8
75°	678.0	847.5	1144.1	1389.9	1491.6
77.5°	517.0	711.9	1033.9	1279.7	1381.4
80°	372.9	593.2	915.3	1169.5	1271.2
82.5°	237.3	474.6	813.6	1067.8	1169.5
85°	127.1	381.4	720.4	974.6	1067.8
87.5°	42.4	296.6	627.1	881.4	974.6
90°	0.0	228.8	550.9	788.2	889.9
92.5°	0.0	178.0	483.1	711.9	805.1
95°	0.0	144.1	415.3	635.6	728.8
97.5°	0.0	118.6	364.4	567.8	652.6
100°	0.0	93.2	313.6	508.5	584.8
102.5°	0.0	76.3	271.2	449.2	525.4
105°	0.0	50.8	228.8	398.3	466.1
107.5°	0.0	42.4	194.9	355.9	415.3
110°	0.0	33.9	178.0	305.1	364.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	25.4	161.0	271.2	330.5
115°	0.0	25.4	135.6	245.8	288.1
117.5°	0.0	25.4	118.6	220.3	262.7
120°	0.0	16.9	110.2	194.9	237.3
122.5°	0.0	16.9	93.2	178.0	211.9
125°	0.0	16.9	84.7	161.0	186.4
127.5°	0.0	8.5	76.3	144.1	169.5
130°	0.0	8.5	67.8	127.1	152.5
132.5°	0.0	8.5	59.3	118.6	144.1
135°	0.0	0.0	50.8	101.7	127.1
137.5°	0.0	0.0	42.4	93.2	110.2
140°	0.0	0.0	33.9	76.3	101.7
142.5°	0.0	0.0	25.4	67.8	84.7
145°	0.0	0.0	25.4	59.3	67.8
147.5°	0.0	0.0	16.9	42.4	59.3
150°	0.0	0.0	8.5	33.9	42.4
152.5°	0.0	0.0	0.0	25.4	33.9
155°	0.0	0.0	0.0	16.9	25.4
157.5°	0.0	0.0	0.0	0.0	8.5
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	19.09	20.63	19.56	21.08	21.57	21.16	22.70	21.63	23.15	23.63
	3H	20.58	21.99	21.06	22.45	22.98	23.64	25.04	24.12	25.51	26.03
	4H	21.06	22.40	21.57	22.88	23.42	24.85	26.18	25.35	26.67	27.20
	6H	21.34	22.58	21.85	23.07	23.63	26.13	27.37	26.65	27.87	28.42
	8H	21.39	22.58	21.92	23.10	23.66	26.80	27.99	27.33	28.51	29.07
	12H	21.40	22.54	21.94	23.06	23.65	27.55	28.69	28.08	29.20	29.79
4H	2H	19.97	21.30	20.47	21.79	22.32	21.59	22.92	22.09	23.40	23.94
	3H	21.71	22.84	22.22	23.37	23.93	24.30	25.43	24.81	25.96	26.52
	4H	22.31	23.35	22.85	23.89	24.48	25.68	26.72	26.22	27.26	27.85
	6H	22.71	23.63	23.26	24.19	24.79	27.15	28.07	27.71	28.63	29.24
	8H	22.80	23.67	23.36	24.23	24.85	27.93	28.79	28.49	29.35	29.97
	12H	22.85	23.63	23.43	24.22	24.85	28.80	29.58	29.38	30.17	30.80
8H	4H	23.00	23.86	23.56	24.43	25.05	25.90	26.76	26.46	27.32	27.94
	6H	23.58	24.31	24.17	24.92	25.54	27.54	28.27	28.13	28.87	29.50
	8H	23.76	24.42	24.37	25.04	25.68	28.45	29.11	29.06	29.73	30.36
	12H	23.88	24.47	24.48	25.07	25.77	29.51	30.10	30.12	30.70	31.41
12H	4H	23.20	23.98	23.78	24.57	25.20	25.90	26.69	26.49	27.28	27.90
	6H	23.88	24.54	24.49	25.16	25.79	27.57	28.23	28.18	28.85	29.49
	8H	24.16	24.75	24.77	25.35	26.06	28.56	29.15	29.16	29.75	30.45

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

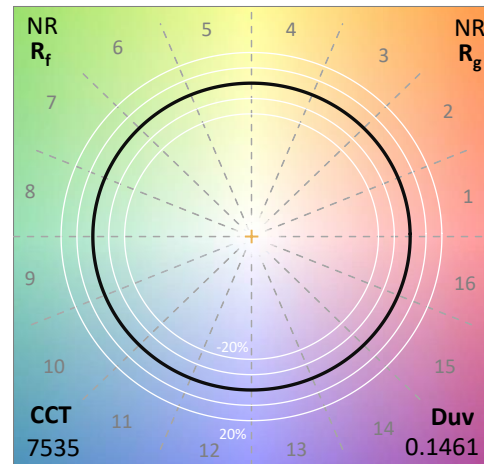
Data in this report applies to families of products including 4ASL

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

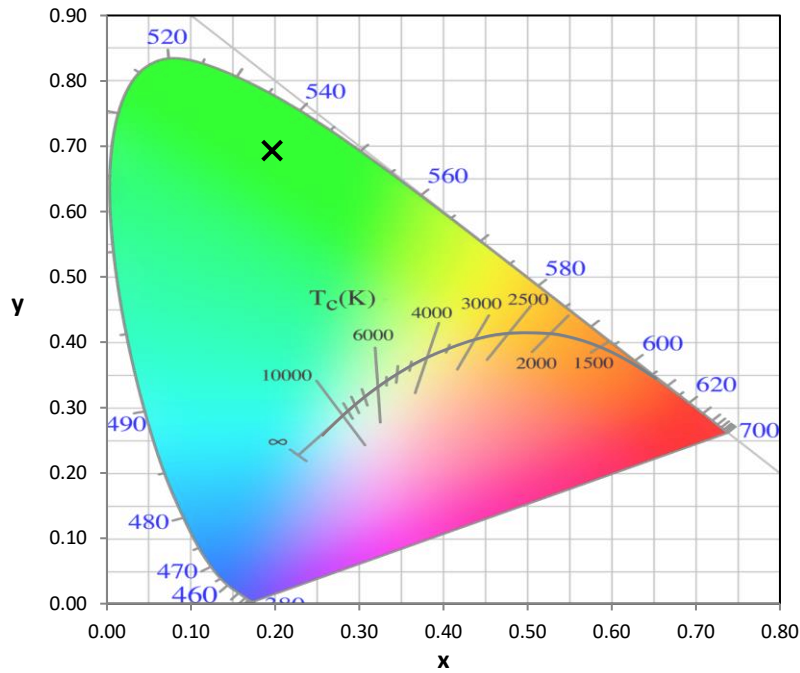
Stabilization Time: 48M
 Operation Time: 1H 48M
 Sphere Temperature (°C): 25.1

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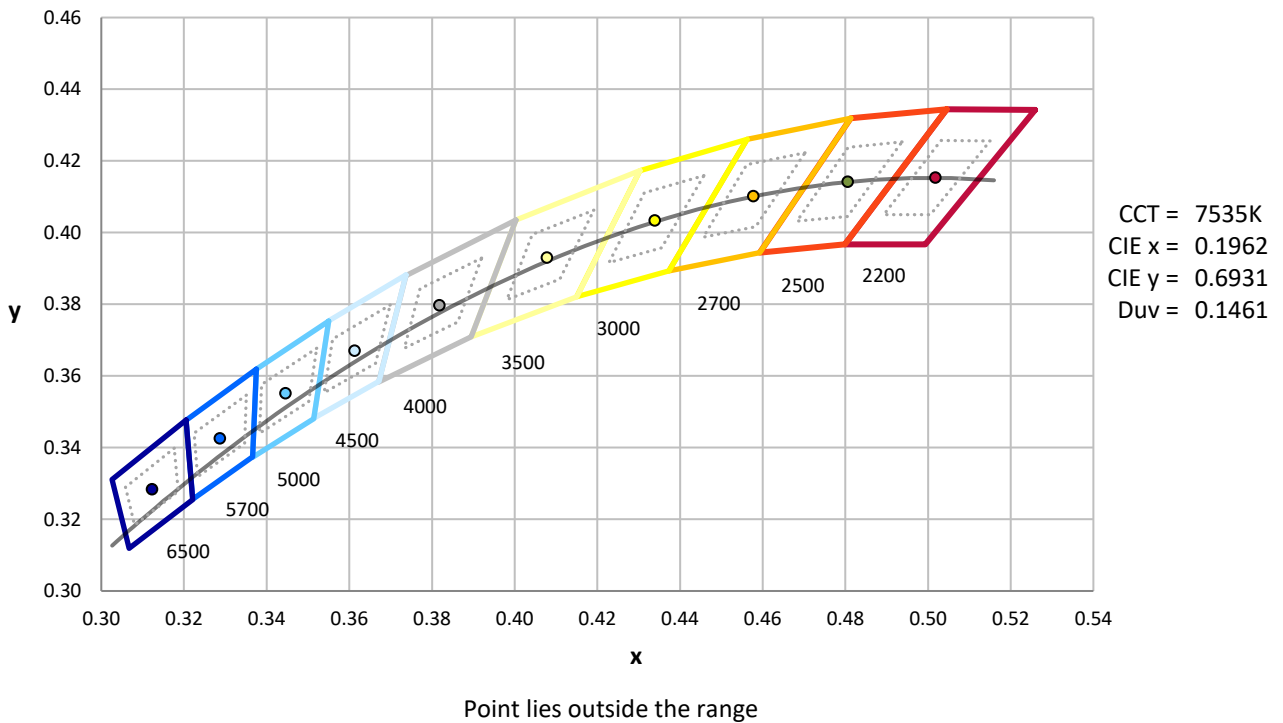
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

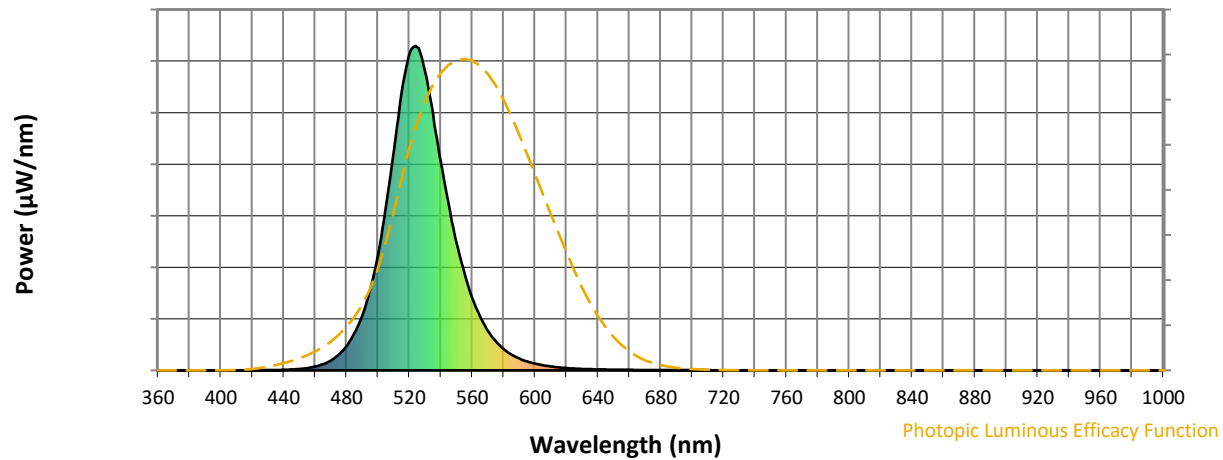


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



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Photopic Flux vs. Wavelength

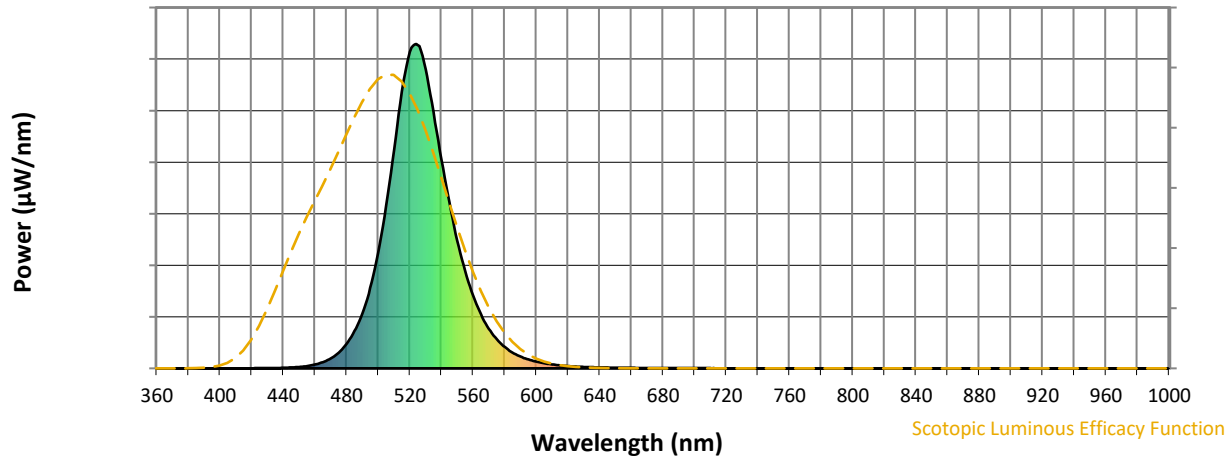


Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /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



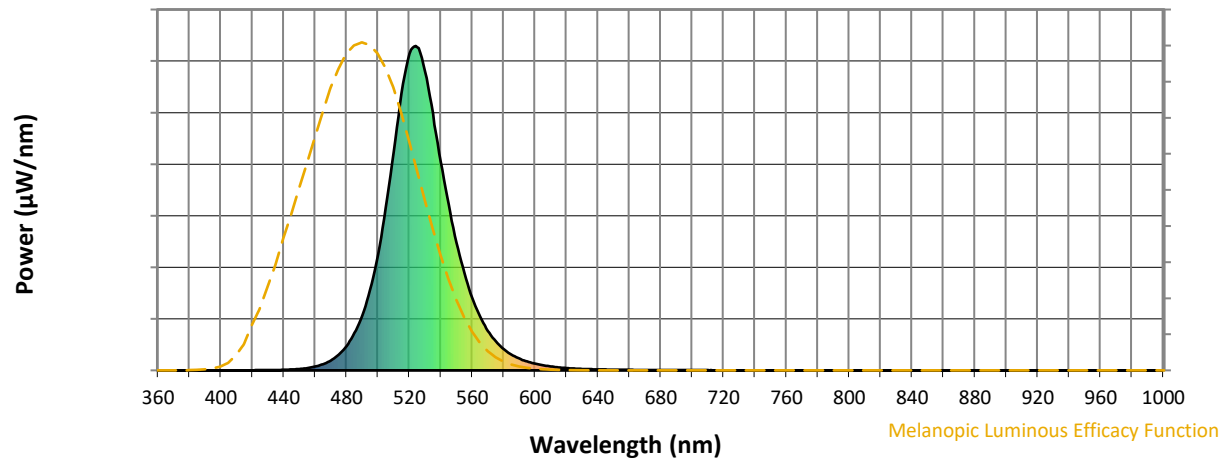
Scotopic Lumens: NR

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			

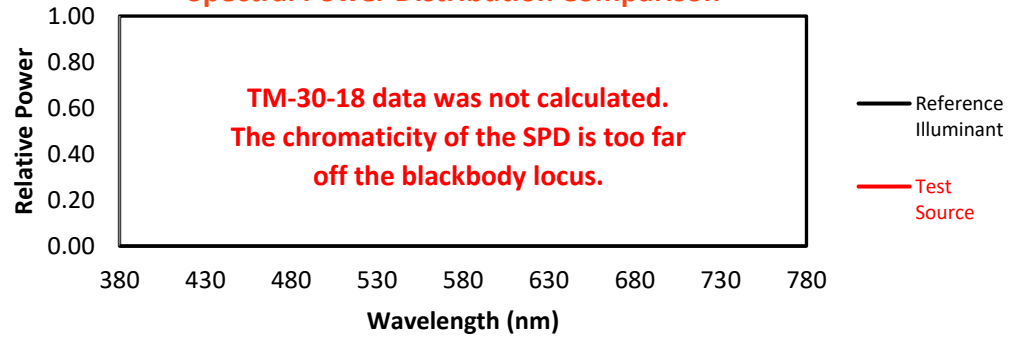
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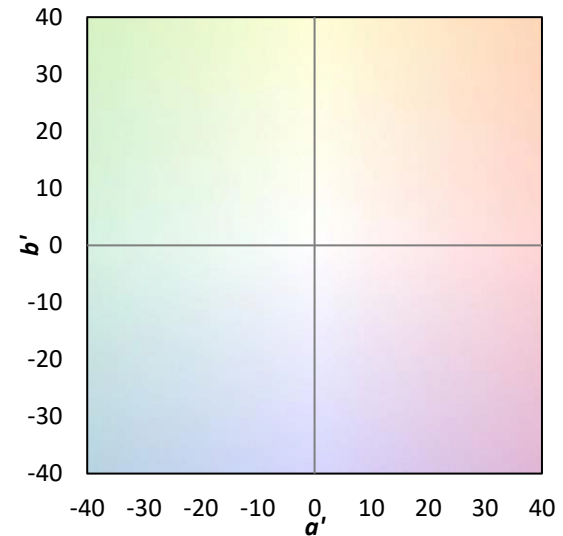
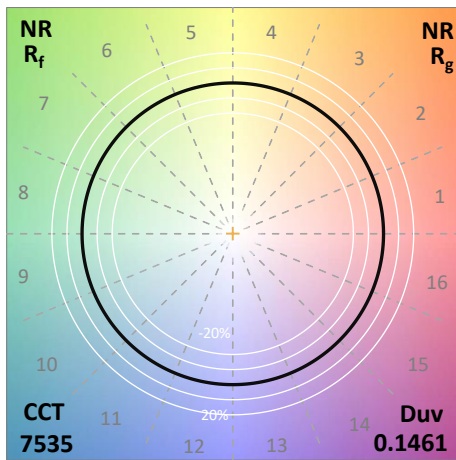
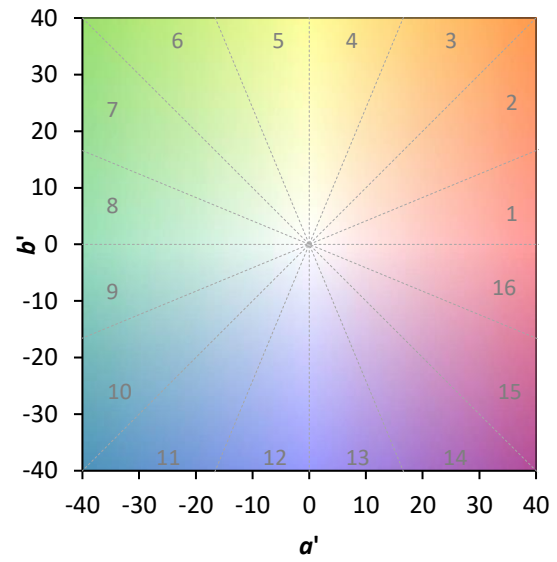
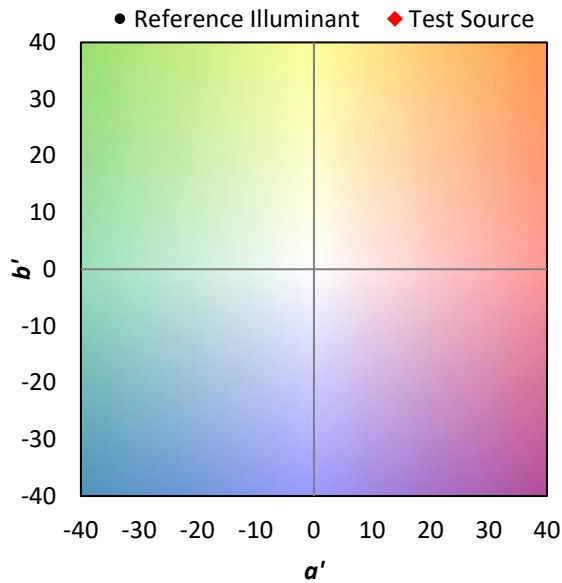
Summary

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

Spectral Power Distribution Comparison

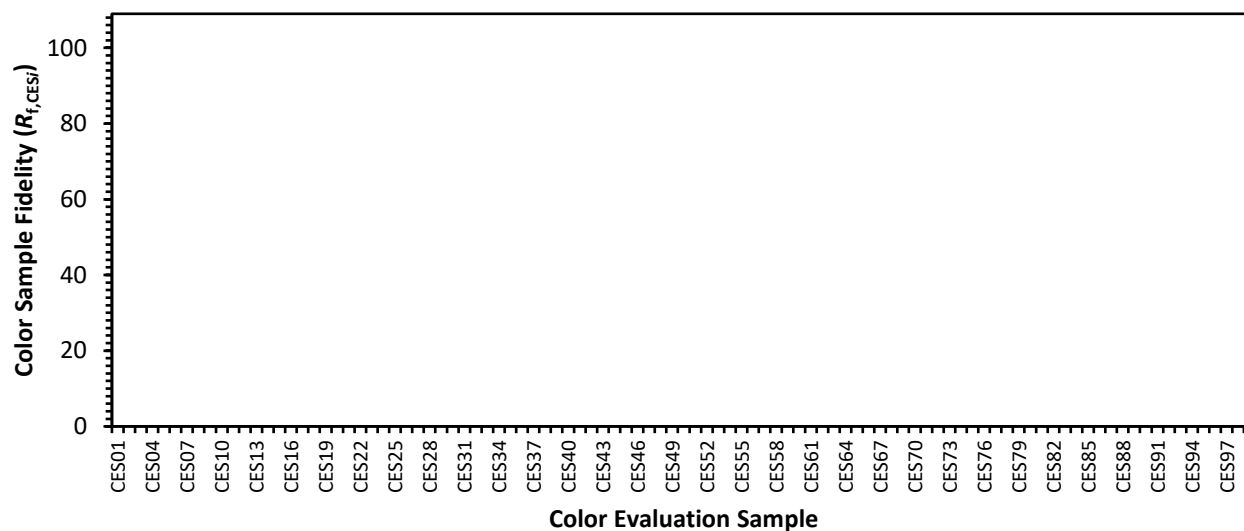


Color Vector Graphics



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

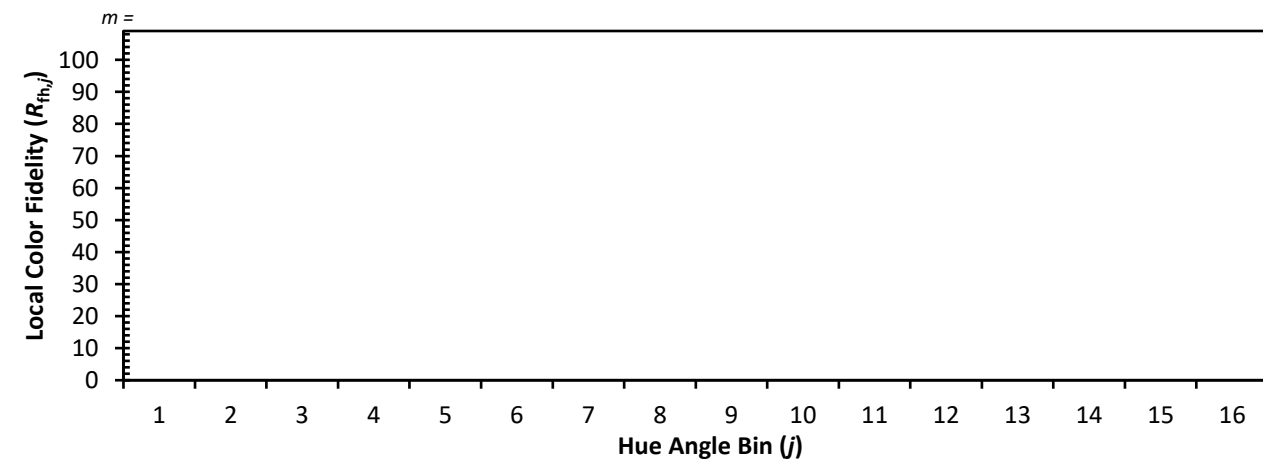
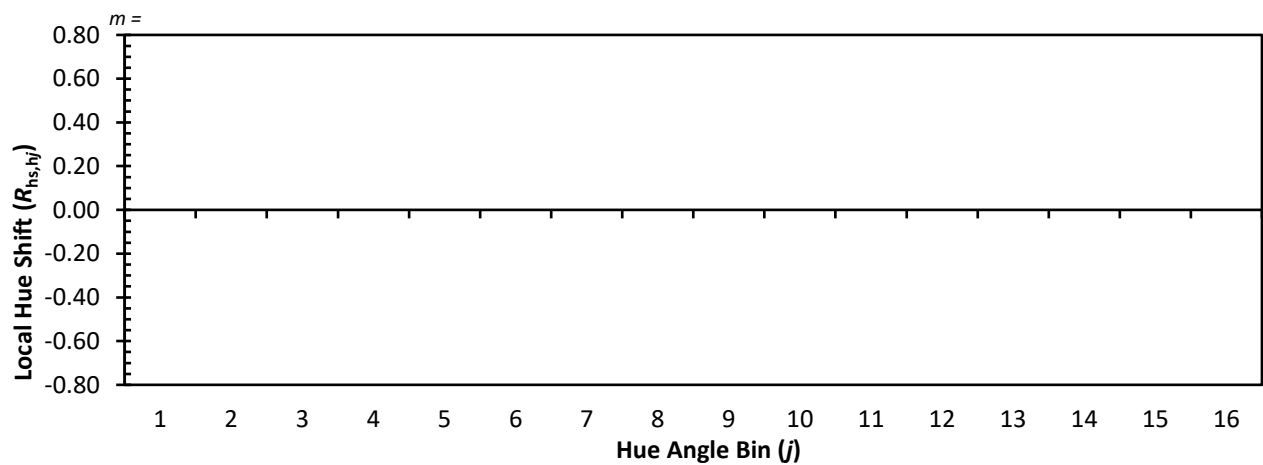
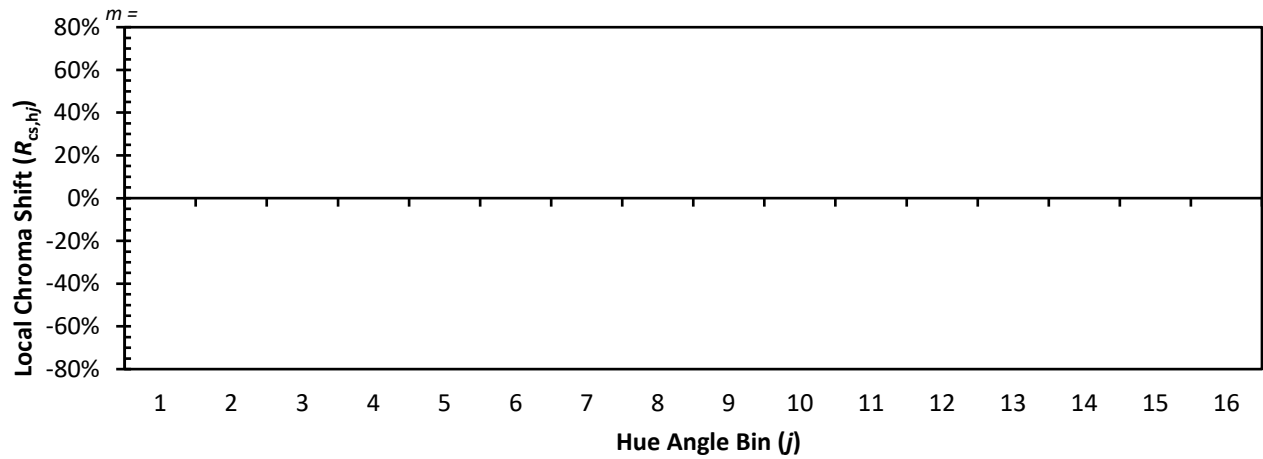
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CES03 = 0	CES28 = 0	CES53 = 0	CES78 = 0
CES04 = 0	CES29 = 0	CES54 = 0	CES79 = 0
CES05 = 0	CES30 = 0	CES55 = 0	CES80 = 0
CES06 = 0	CES31 = 0	CES56 = 0	CES81 = 0
CES07 = 0	CES32 = 0	CES57 = 0	CES82 = 0
CES08 = 0	CES33 = 0	CES58 = 0	CES83 = 0
CES09 = 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
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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
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Color Rendition by Hue-Angle Bin



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Measure Comparisons



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