

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: P1357008

Luminaire Tested: 3ASL4-15HE-2-35-UNV

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357008
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: 3ASL4-15HE-2-35-UNV
Description: 3FT 1500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 3500K LEDS 2 ROW
Light Source: -
Ballast/Driver: -

Summary

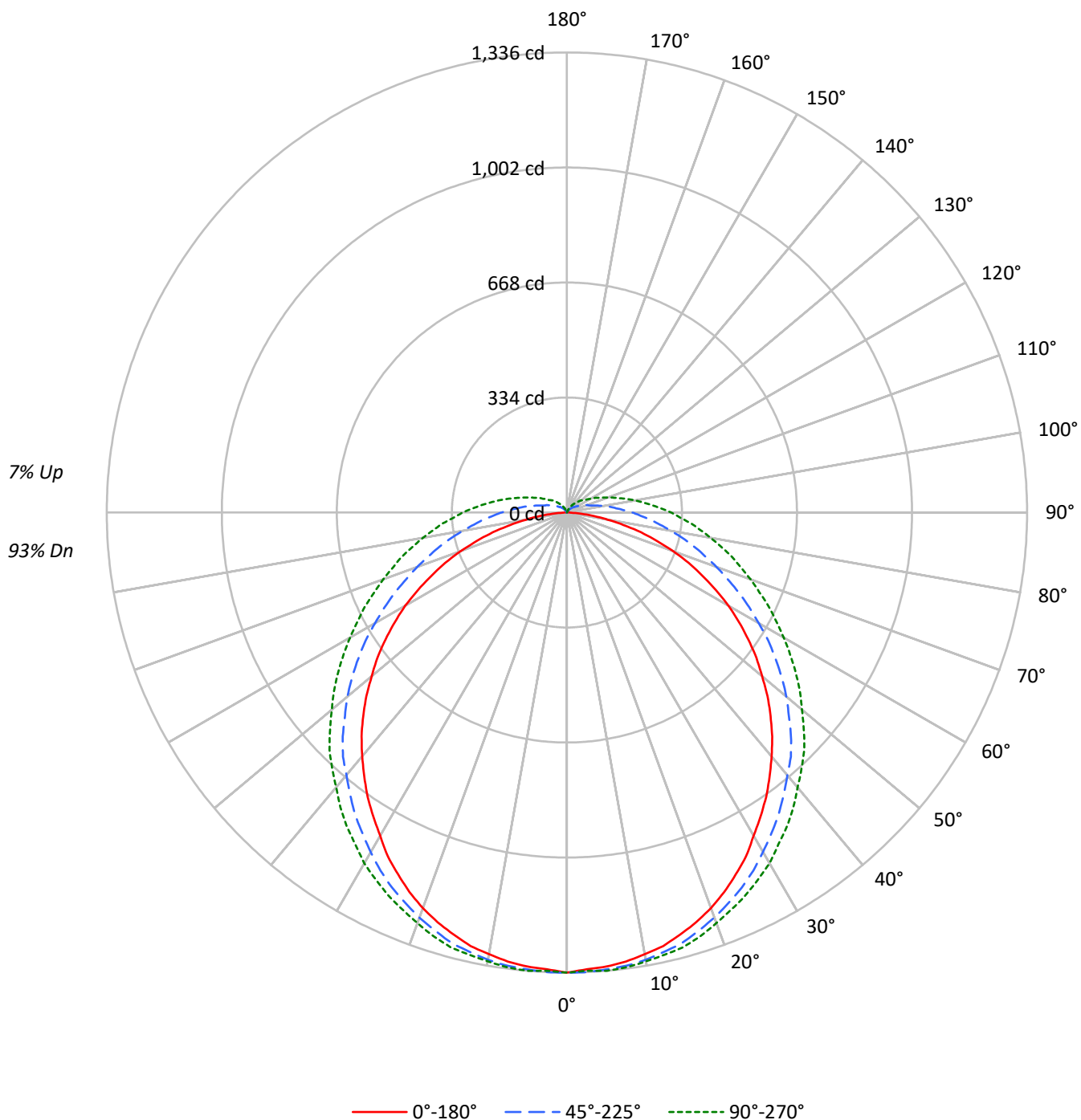
Lumens per Lamp: N/A
Luminaire Lumens: 4587.0 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 39
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			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	95	95	93
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	79	77	77	77	74
2	95	86	79	72	92	84	77	71	79	73	68	74	70	65	70	66	63	63	63	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	55	62	57	53	53	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	45	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	39	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	34	34	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	30	30	28
8	58	44	35	29	56	43	34	29	41	33	28	39	32	28	37	31	27	27	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	29	24	24	24	22
10	50	37	29	24	49	36	28	23	35	28	23	33	27	22	32	26	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14482	14482	14482
5°	14357	14187	14151
10°	14248	13918	13806
15°	14107	13625	13530
20°	13927	13257	13142
25°	13647	12895	12807
30°	13299	12482	12475
35°	13025	12096	12089
40°	12707	11682	11681
45°	12384	11324	11385
50°	11971	10851	10945
55°	11572	10345	10595
60°	11079	9777	10224
65°	10326	9245	9937
70°	9475	8745	9672
75°	8250	8354	9585
80°	6345	7999	9556
85°	3732	7958	9828

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12384 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.7	2.8
10°-20°	364.2	7.9
20°-30°	551.9	12.0
30°-40°	667.5	14.6
40°-50°	703.7	15.3
50°-60°	656.8	14.3
60°-70°	542.3	11.8
70°-80°	393.4	8.6
80°-90°	248.5	5.4
90°-100°	148.4	3.2
100°-110°	85.0	1.9
110°-120°	48.3	1.1
120°-130°	27.5	0.6
130°-140°	14.9	0.3
140°-150°	6.5	0.1
150°-160°	1.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1042.9	22.7
0°-40°	1710.4	37.3
0°-60°	3070.9	66.9
0°-90°	4255.1	92.8
90°-120°	281.7	6.1
90°-150°	330.7	7.2
90°-180°	332.0	7.2
0°-180°	4587.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1336	1336	1336	1336	1336	
5°	1324	1336	1332	1332	1336	126
15°	1269	1286	1294	1298	1307	358
25°	1160	1176	1202	1218	1227	534
35°	1008	1034	1071	1101	1114	630
45°	836	870	920	958	975	645
55°	643	681	740	790	811	575
65°	433	479	550	618	647	430
75°	223	282	382	462	496	234
85°	42	130	244	328	361	51
90°	0	80	189	269	302	2
95°	0	50	143	218	248	0
105°	0	17	80	139	160	0
115°	0	8	46	84	101	0
125°	0	4	29	55	63	0
135°	0	0	17	34	42	0
145°	0	0	8	21	25	0
155°	0	0	0	4	8	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°	1336.1	1336.1	1336.1	1336.1	1336.1
2.5°	1327.7	1340.3	1336.1	1331.9	1331.9
5°	1323.5	1336.1	1331.9	1331.9	1336.1
7.5°	1315.1	1327.7	1327.7	1327.7	1331.9
10°	1302.5	1319.3	1319.3	1319.3	1323.5
12.5°	1289.9	1302.5	1306.7	1310.9	1315.1
15°	1268.9	1285.7	1294.1	1298.3	1306.7
17.5°	1247.9	1260.5	1273.1	1285.7	1289.9
20°	1222.7	1239.5	1252.1	1264.7	1268.9
22.5°	1193.3	1210.1	1226.9	1239.5	1247.9
25°	1159.7	1176.5	1201.7	1218.5	1226.9
27.5°	1126.1	1142.9	1172.3	1193.3	1201.7
30°	1084.0	1109.3	1138.7	1163.9	1176.5
32.5°	1046.2	1071.4	1105.1	1134.5	1142.9
35°	1008.4	1033.6	1071.4	1100.8	1113.5
37.5°	966.4	995.8	1033.6	1067.2	1079.8
40°	924.4	953.8	995.8	1033.6	1042.0
42.5°	882.4	911.8	962.2	995.8	1008.4
45°	836.1	869.8	920.2	958.0	974.8
47.5°	789.9	823.5	874.0	916.0	932.8
50°	739.5	777.3	831.9	874.0	890.8
52.5°	693.3	731.1	785.7	831.9	852.9
55°	642.9	680.7	739.5	789.9	810.9
57.5°	592.4	630.3	693.3	747.9	768.9
60°	542.0	579.8	642.9	705.9	726.9
62.5°	487.4	529.4	596.6	659.7	684.9
65°	432.8	479.0	550.4	617.7	647.1
67.5°	382.4	428.6	504.2	579.8	605.0
70°	327.7	378.2	462.2	537.8	567.2
72.5°	273.1	327.7	420.2	500.0	529.4
75°	222.7	281.5	382.4	462.2	495.8
77.5°	168.1	239.5	344.5	428.6	458.0
80°	121.8	197.5	306.7	395.0	424.4
82.5°	79.8	159.7	273.1	361.3	390.8
85°	42.0	130.3	243.7	327.7	361.3
87.5°	12.6	100.8	214.3	298.3	327.7
90°	0.0	79.8	189.1	268.9	302.5
92.5°	0.0	63.0	163.9	243.7	273.1
95°	0.0	50.4	142.9	218.5	247.9
97.5°	0.0	42.0	126.1	197.5	222.7
100°	0.0	33.6	109.2	176.5	201.7
102.5°	0.0	25.2	92.4	155.5	180.7
105°	0.0	16.8	79.8	138.7	159.7
107.5°	0.0	12.6	67.2	121.8	142.9
110°	0.0	12.6	63.0	105.0	126.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	8.4	54.6	96.6	113.4
115°	0.0	8.4	46.2	84.0	100.8
117.5°	0.0	8.4	42.0	75.6	92.4
120°	0.0	8.4	37.8	67.2	79.8
122.5°	0.0	4.2	33.6	58.8	71.4
125°	0.0	4.2	29.4	54.6	63.0
127.5°	0.0	4.2	25.2	50.4	58.8
130°	0.0	4.2	25.2	46.2	54.6
132.5°	0.0	0.0	21.0	42.0	50.4
135°	0.0	0.0	16.8	33.6	42.0
137.5°	0.0	0.0	16.8	29.4	37.8
140°	0.0	0.0	12.6	29.4	33.6
142.5°	0.0	0.0	8.4	25.2	29.4
145°	0.0	0.0	8.4	21.0	25.2
147.5°	0.0	0.0	4.2	16.8	21.0
150°	0.0	0.0	4.2	12.6	16.8
152.5°	0.0	0.0	0.0	8.4	12.6
155°	0.0	0.0	0.0	4.2	8.4
157.5°	0.0	0.0	0.0	0.0	4.2
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	18.59	20.12	19.06	20.58	21.07	20.62	22.16	21.09	22.62	23.11
	3H	20.09	21.49	20.58	21.96	22.49	23.06	24.46	23.54	24.93	25.46
	4H	20.57	21.90	21.08	22.39	22.93	24.26	25.59	24.76	26.07	26.62
	6H	20.85	22.08	21.37	22.59	23.15	25.51	26.75	26.03	27.25	27.81
	8H	20.90	22.09	21.43	22.61	23.18	26.16	27.34	26.69	27.87	28.43
	12H	20.92	22.05	21.45	22.57	23.17	26.86	28.00	27.40	28.52	29.12
4H	2H	19.46	20.79	19.97	21.28	21.82	21.05	22.38	21.56	22.87	23.41
	3H	21.21	22.34	21.73	22.87	23.44	23.72	24.85	24.24	25.38	25.95
	4H	21.81	22.85	22.35	23.39	23.99	25.09	26.13	25.63	26.67	27.27
	6H	22.22	23.13	22.78	23.70	24.31	26.55	27.46	27.11	28.03	28.64
	8H	22.31	23.18	22.88	23.74	24.37	27.30	28.16	27.86	28.73	29.35
	12H	22.36	23.14	22.95	23.74	24.37	28.13	28.92	28.72	29.51	30.14
8H	4H	22.50	23.37	23.07	23.93	24.56	25.32	26.18	25.88	26.75	27.37
	6H	23.09	23.82	23.69	24.43	25.06	26.94	27.68	27.54	28.28	28.92
	8H	23.28	23.94	23.89	24.56	25.20	27.84	28.50	28.45	29.12	29.76
	12H	23.40	23.99	24.01	24.60	25.31	28.86	29.45	29.47	30.06	30.77
12H	4H	22.70	23.48	23.29	24.08	24.71	25.33	26.11	25.91	26.70	27.33
	6H	23.39	24.05	24.00	24.67	25.31	26.98	27.64	27.59	28.26	28.91
	8H	23.68	24.27	24.29	24.87	25.58	27.95	28.54	28.56	29.15	29.86

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

Report Prepared for

Cooper Lighting Solutions

Fail-Safe

Report Number: SP1-2511-597-1

Test Date: 11/17/2025

Luminaire Tested: 4ASL-2-35-UNV-OPL-1_600mA

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

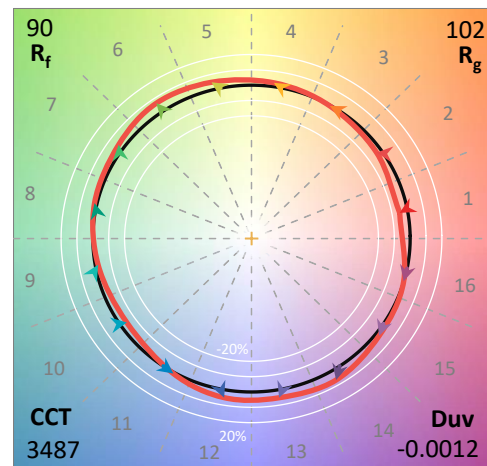
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2511-597-1
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 11/18/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Fail-Safe
 Catalog Number: **4ASL-2-35-UNV-OPL-1_600mA**
 Description: 2foot 4ASL LED LUMINAIRE WITH OPL LENS AND 3500K LEDS with 1 rows at 600mA

Spectral Parameters

CCT (K): 3487
 CIE u' : 0.2366
 CIE v' : 0.5099
 Duv: -0.0012
 CIE x: 0.4047
 CIE y: 0.3876
 CIE z: 0.2077
 Peak Wavelength (nm): 630
 Dominant Wavelength (nm): 581
 Purity: 37.79273
 R_f: 90
 R_g: 102.4

CRI (Ra): 92.5
 R1: 94.7
 R2: 94.3
 R3: 92.9
 R4: 93.3
 R5: 93.9
 R6: 93.4
 R7: 92.5
 R8: 85.2
 R9: 61.3
 R10: 85.5
 R11: 93.7
 R12: 80.8
 R13: 94.3
 R14: 95.1
 R15: 90.9



Test Conditions

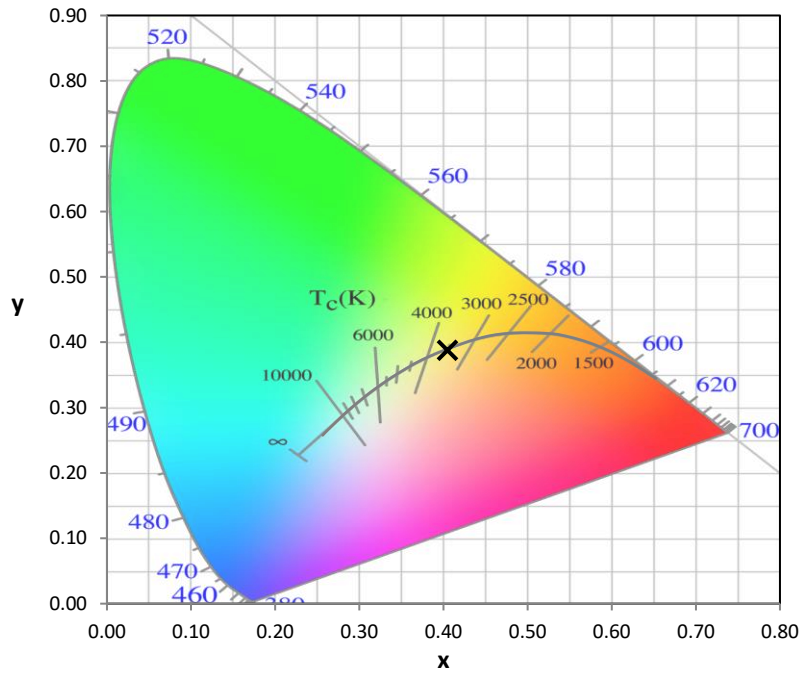
Stabilization Time: 31M
 Operation Time: 1H 31M
 Sphere Temperature (°C): 24.1

REPORT NUMBER: SP1-2511-597-1

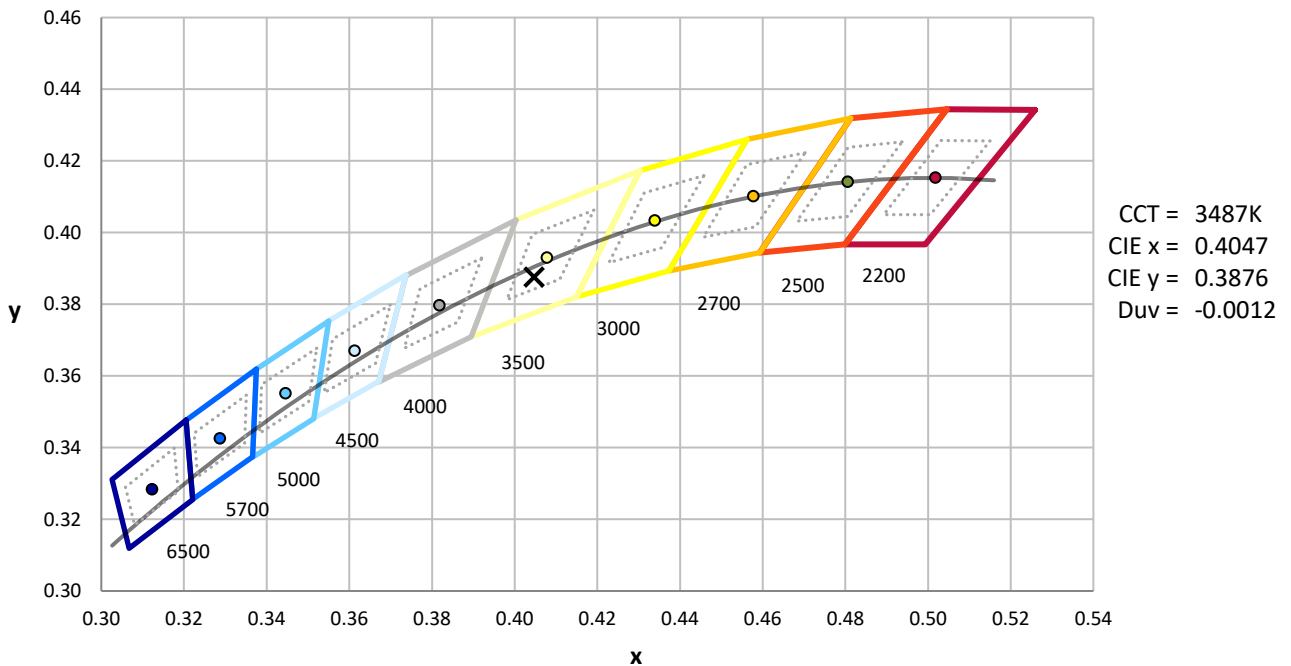
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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



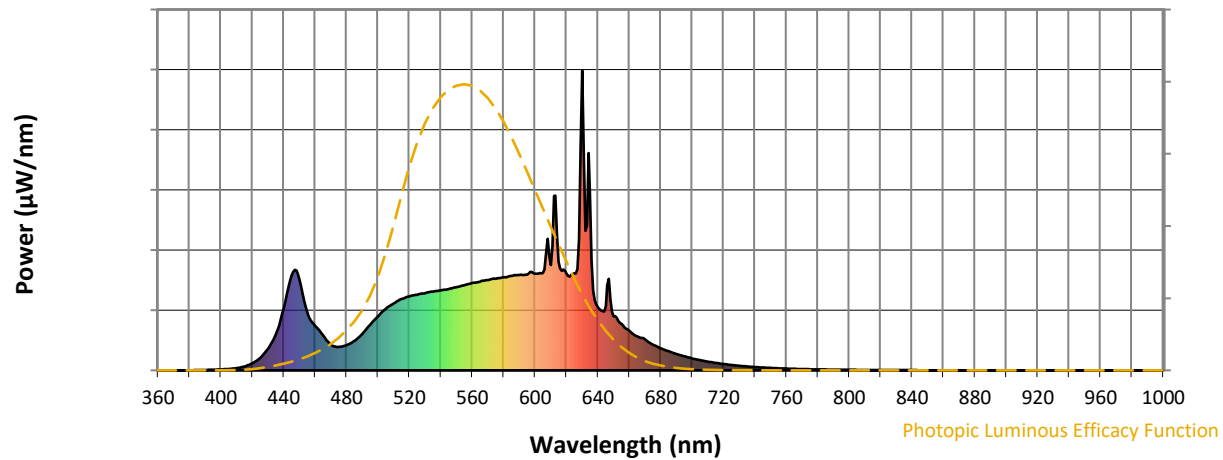
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

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Photopic Flux vs. Wavelength

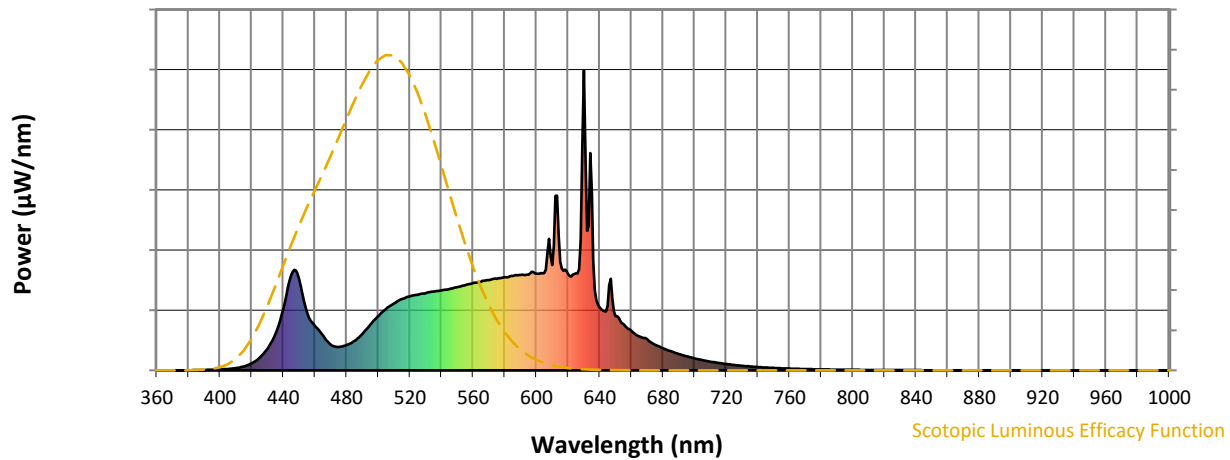


Photopic Lumens: NR

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	122	NR	620	322	NR	750	8	NR	880	0	NR
365	0	NR	495	152	NR	625	323	NR	755	7	NR	885	0	NR
370	0	NR	500	180	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	205	NR	635	589	NR	765	5	NR	895	0	NR
380	0	NR	510	223	NR	640	210	NR	770	4	NR	900	0	NR
385	1	NR	515	238	NR	645	214	NR	775	4	NR	905	0	NR
390	1	NR	520	247	NR	650	181	NR	780	3	NR	910	0	NR
395	2	NR	525	252	NR	655	155	NR	785	3	NR	915	0	NR
400	3	NR	530	258	NR	660	133	NR	790	2	NR	920	0	NR
405	5	NR	535	262	NR	665	113	NR	795	2	NR	925	0	NR
410	7	NR	540	267	NR	670	104	NR	800	2	NR	930	0	NR
415	13	NR	545	271	NR	675	86	NR	805	2	NR	935	0	NR
420	24	NR	550	277	NR	680	74	NR	810	1	NR	940	0	NR
425	42	NR	555	284	NR	685	64	NR	815	1	NR	945	0	NR
430	72	NR	560	291	NR	690	55	NR	820	1	NR	950	0	NR
435	122	NR	565	296	NR	695	47	NR	825	1	NR	955	0	NR
440	207	NR	570	301	NR	700	40	NR	830	1	NR	960	0	NR
445	317	NR	575	306	NR	705	34	NR	835	1	NR	965	0	NR
450	304	NR	580	310	NR	710	29	NR	840	1	NR	970	0	NR
455	193	NR	585	315	NR	715	25	NR	845	1	NR	975	0	NR
460	149	NR	590	318	NR	720	21	NR	850	0	NR	980	0	NR
465	117	NR	595	320	NR	725	18	NR	855	0	NR	985	0	NR
470	85	NR	600	322	NR	730	15	NR	860	0	NR	990	0	NR
475	78	NR	605	325	NR	735	13	NR	865	0	NR	995	0	NR
480	84	NR	610	351	NR	740	11	NR	870	0	NR	1000	0	NR
485	98	NR	615	362	NR	745	10	NR	875	0	NR			

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Scotopic Flux vs. Wavelength



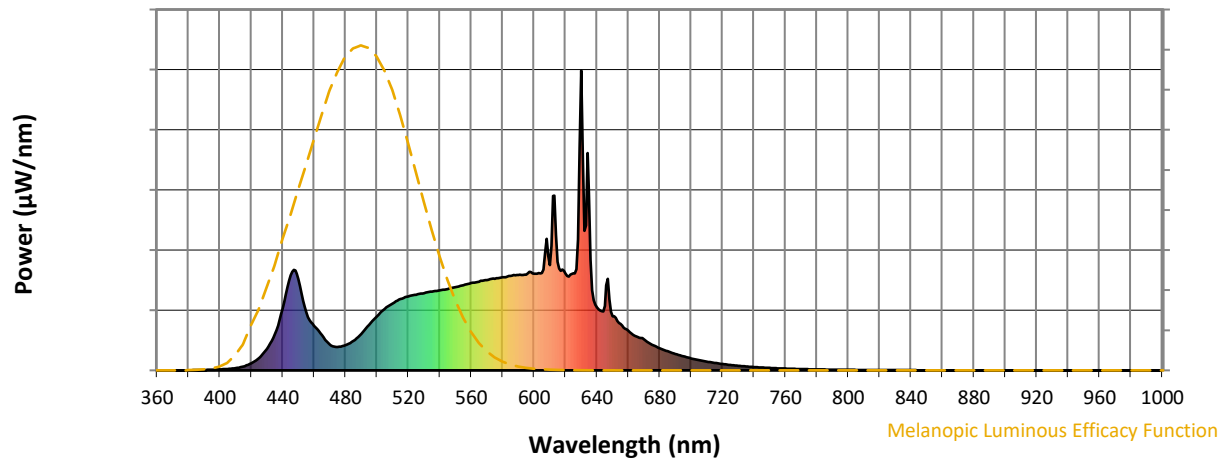
Scotopic Lumens: NR

S/P: 1.58

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	122	NR	620	322	NR	750	8	NR	880	0	NR
365	0	NR	495	152	NR	625	323	NR	755	7	NR	885	0	NR
370	0	NR	500	180	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	205	NR	635	589	NR	765	5	NR	895	0	NR
380	0	NR	510	223	NR	640	210	NR	770	4	NR	900	0	NR
385	1	NR	515	238	NR	645	214	NR	775	4	NR	905	0	NR
390	1	NR	520	247	NR	650	181	NR	780	3	NR	910	0	NR
395	2	NR	525	252	NR	655	155	NR	785	3	NR	915	0	NR
400	3	NR	530	258	NR	660	133	NR	790	2	NR	920	0	NR
405	5	NR	535	262	NR	665	113	NR	795	2	NR	925	0	NR
410	7	NR	540	267	NR	670	104	NR	800	2	NR	930	0	NR
415	13	NR	545	271	NR	675	86	NR	805	2	NR	935	0	NR
420	24	NR	550	277	NR	680	74	NR	810	1	NR	940	0	NR
425	42	NR	555	284	NR	685	64	NR	815	1	NR	945	0	NR
430	72	NR	560	291	NR	690	55	NR	820	1	NR	950	0	NR
435	122	NR	565	296	NR	695	47	NR	825	1	NR	955	0	NR
440	207	NR	570	301	NR	700	40	NR	830	1	NR	960	0	NR
445	317	NR	575	306	NR	705	34	NR	835	1	NR	965	0	NR
450	304	NR	580	310	NR	710	29	NR	840	1	NR	970	0	NR
455	193	NR	585	315	NR	715	25	NR	845	1	NR	975	0	NR
460	149	NR	590	318	NR	720	21	NR	850	0	NR	980	0	NR
465	117	NR	595	320	NR	725	18	NR	855	0	NR	985	0	NR
470	85	NR	600	322	NR	730	15	NR	860	0	NR	990	0	NR
475	78	NR	605	325	NR	735	13	NR	865	0	NR	995	0	NR
480	84	NR	610	351	NR	740	11	NR	870	0	NR	1000	0	NR
485	98	NR	615	362	NR	745	10	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.15

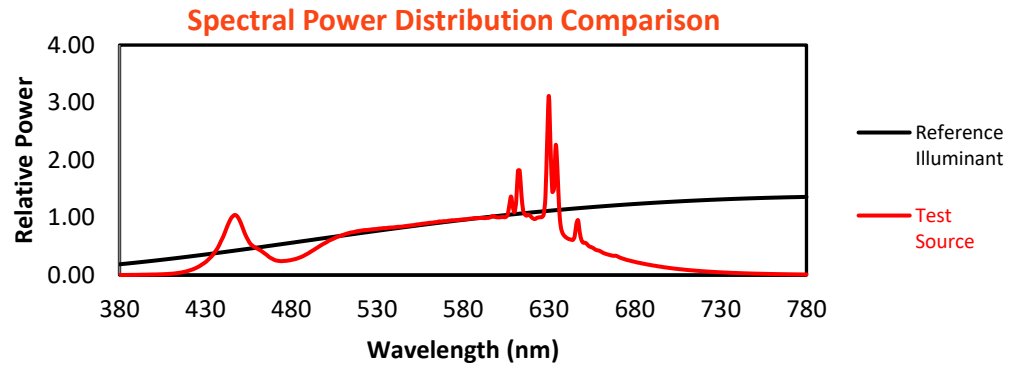
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	122	NR	620	322	NR	750	8	NR	880	0	NR
365	0	NR	495	152	NR	625	323	NR	755	7	NR	885	0	NR
370	0	NR	500	180	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	205	NR	635	589	NR	765	5	NR	895	0	NR
380	0	NR	510	223	NR	640	210	NR	770	4	NR	900	0	NR
385	1	NR	515	238	NR	645	214	NR	775	4	NR	905	0	NR
390	1	NR	520	247	NR	650	181	NR	780	3	NR	910	0	NR
395	2	NR	525	252	NR	655	155	NR	785	3	NR	915	0	NR
400	3	NR	530	258	NR	660	133	NR	790	2	NR	920	0	NR
405	5	NR	535	262	NR	665	113	NR	795	2	NR	925	0	NR
410	7	NR	540	267	NR	670	104	NR	800	2	NR	930	0	NR
415	13	NR	545	271	NR	675	86	NR	805	2	NR	935	0	NR
420	24	NR	550	277	NR	680	74	NR	810	1	NR	940	0	NR
425	42	NR	555	284	NR	685	64	NR	815	1	NR	945	0	NR
430	72	NR	560	291	NR	690	55	NR	820	1	NR	950	0	NR
435	122	NR	565	296	NR	695	47	NR	825	1	NR	955	0	NR
440	207	NR	570	301	NR	700	40	NR	830	1	NR	960	0	NR
445	317	NR	575	306	NR	705	34	NR	835	1	NR	965	0	NR
450	304	NR	580	310	NR	710	29	NR	840	1	NR	970	0	NR
455	193	NR	585	315	NR	715	25	NR	845	1	NR	975	0	NR
460	149	NR	590	318	NR	720	21	NR	850	0	NR	980	0	NR
465	117	NR	595	320	NR	725	18	NR	855	0	NR	985	0	NR
470	85	NR	600	322	NR	730	15	NR	860	0	NR	990	0	NR
475	78	NR	605	325	NR	735	13	NR	865	0	NR	995	0	NR
480	84	NR	610	351	NR	740	11	NR	870	0	NR	1000	0	NR
485	98	NR	615	362	NR	745	10	NR	875	0	NR			

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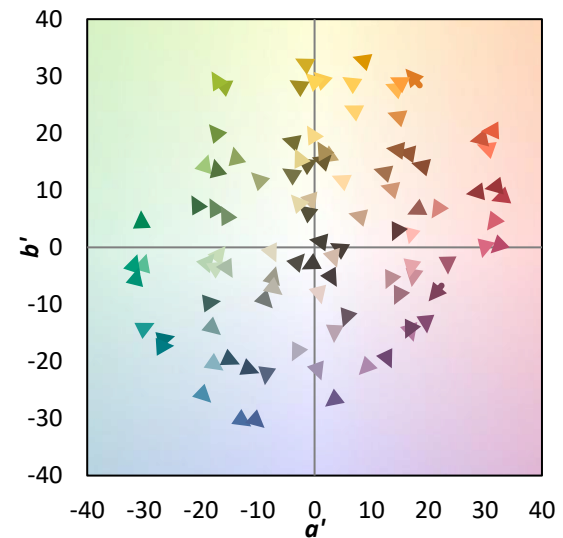
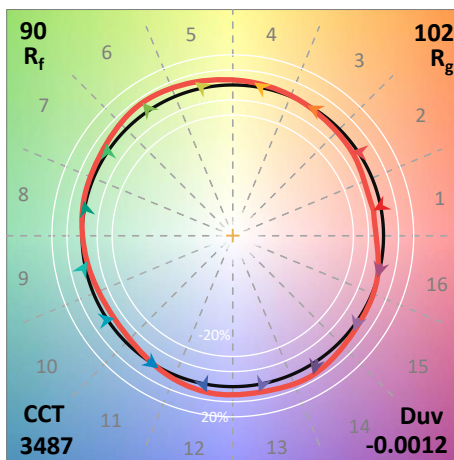
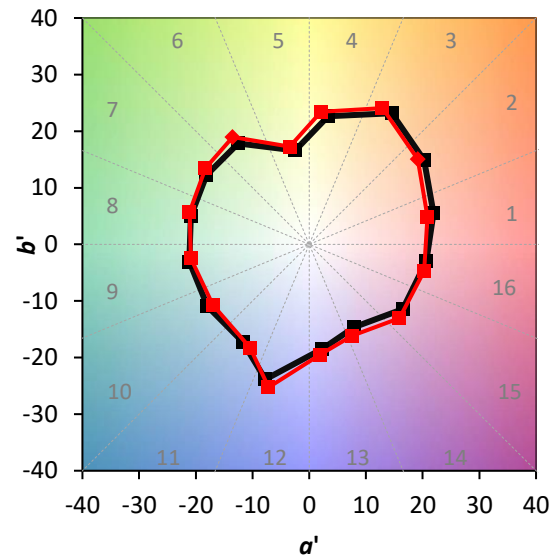
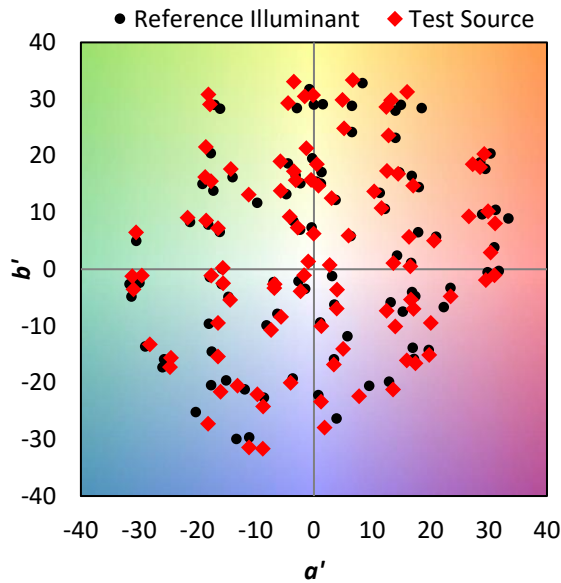
TM-30-18

Summary

$R_f = 90$
 $R_g = 102.4$
 $CIE\ R_a = 92.5$
 $R_9 = 61.3$

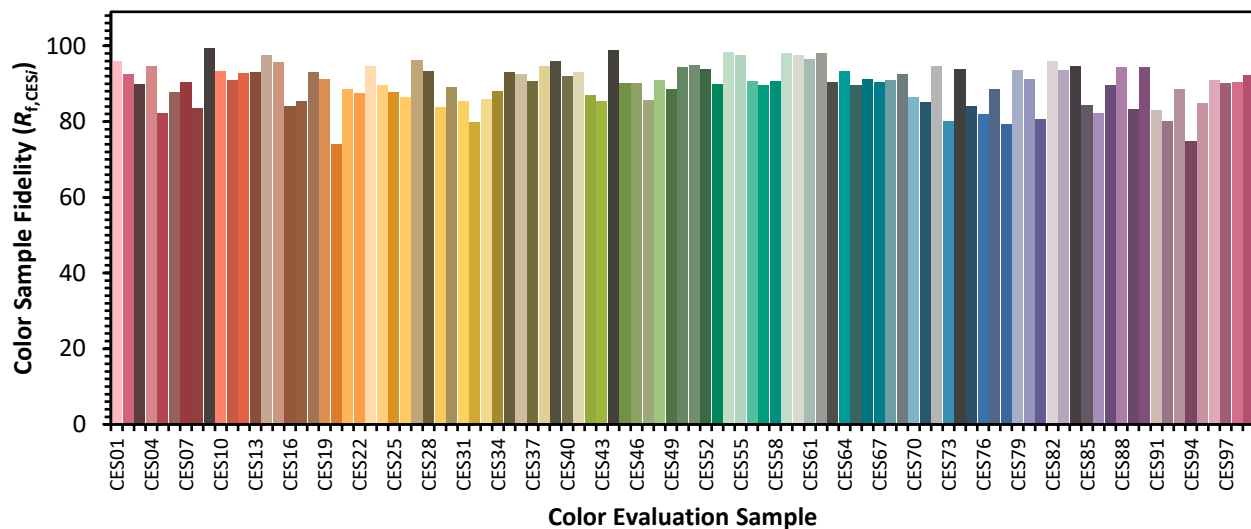


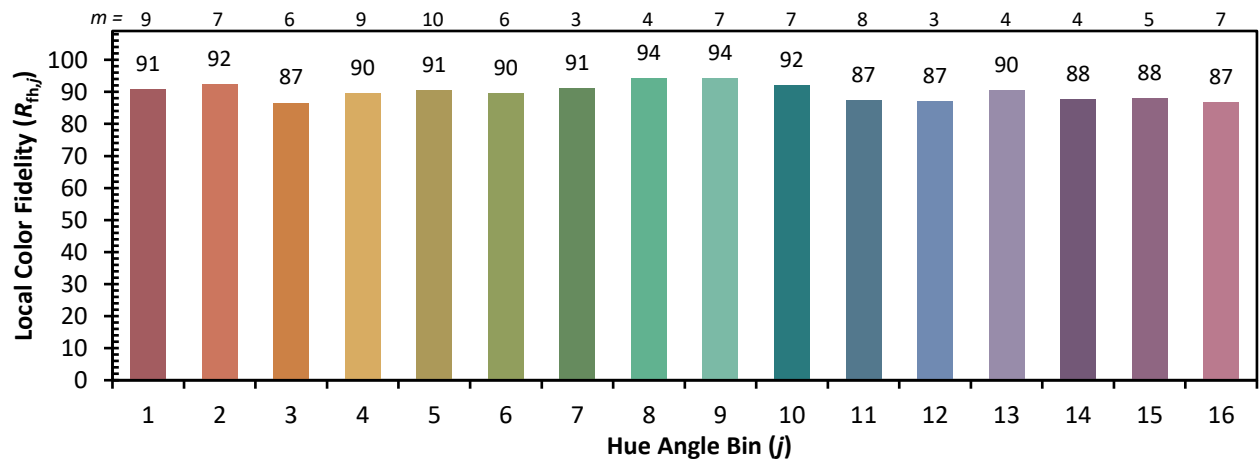
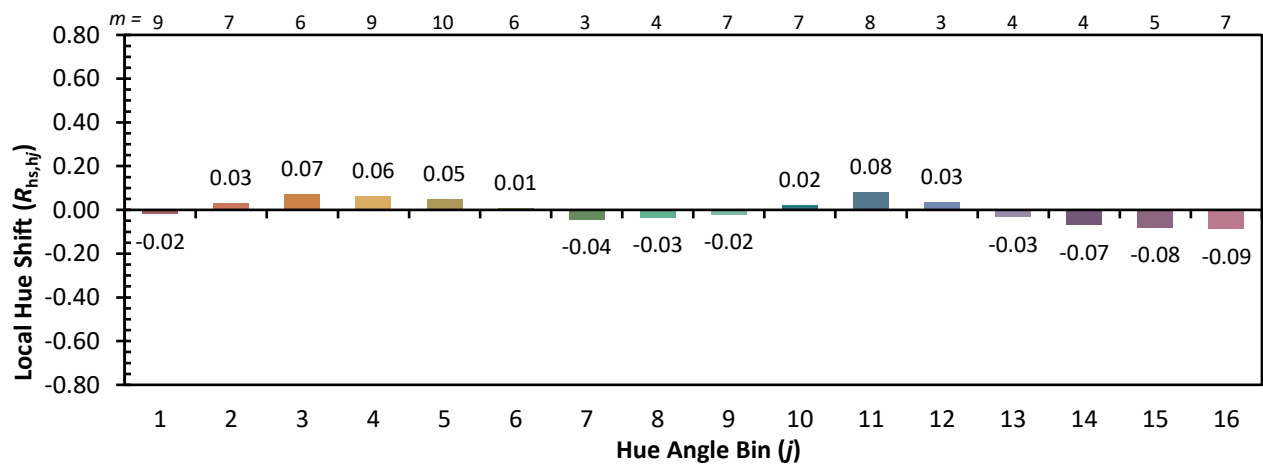
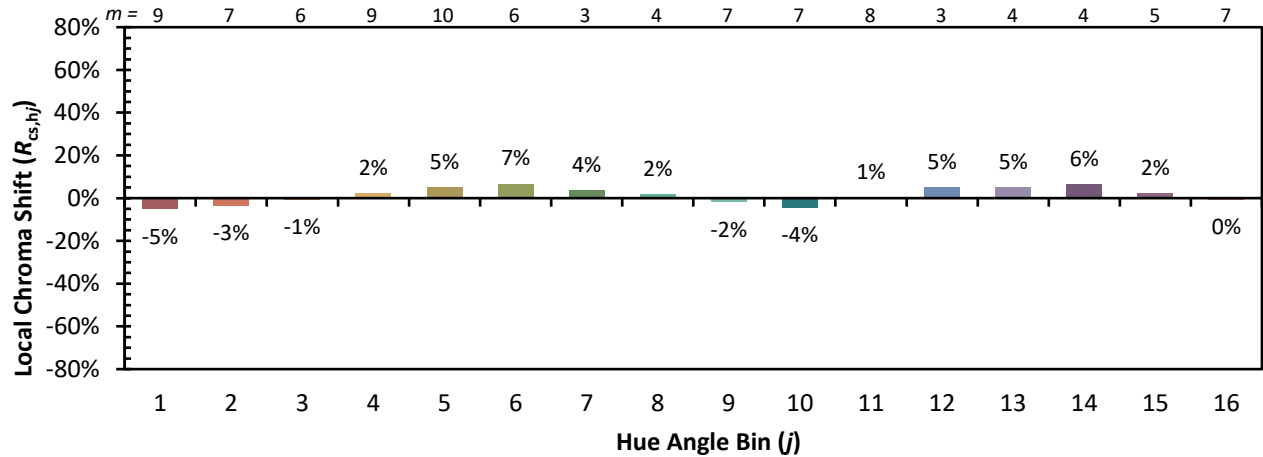
Color Vector Graphics



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

CES01 = 86	CES26 = 87	CES51 = 95	CES76 = 82
CES02 = 62	CES27 = 96	CES52 = 94	CES77 = 89
CES03 = 31	CES28 = 93	CES53 = 90	CES78 = 79
CES04 = 70	CES29 = 84	CES54 = 98	CES79 = 93
CES05 = 50	CES30 = 89	CES55 = 97	CES80 = 91
CES06 = 51	CES31 = 85	CES56 = 91	CES81 = 81
CES07 = 43	CES32 = 80	CES57 = 90	CES82 = 96
CES08 = 41	CES33 = 86	CES58 = 91	CES83 = 94
CES09 = 29	CES34 = 88	CES59 = 98	CES84 = 95
CES10 = 75	CES35 = 93	CES60 = 97	CES85 = 84
CES11 = 58	CES36 = 93	CES61 = 96	CES86 = 82
CES12 = 64	CES37 = 91	CES62 = 98	CES87 = 90
CES13 = 43	CES38 = 95	CES63 = 91	CES88 = 94
CES14 = 74	CES39 = 96	CES64 = 93	CES89 = 83
CES15 = 71	CES40 = 92	CES65 = 90	CES90 = 94
CES16 = 47	CES41 = 93	CES66 = 91	CES91 = 83
CES17 = 49	CES42 = 87	CES67 = 91	CES92 = 80
CES18 = 56	CES43 = 85	CES68 = 91	CES93 = 89
CES19 = 71	CES44 = 99	CES69 = 93	CES94 = 75
CES20 = 66	CES45 = 90	CES70 = 87	CES95 = 85
CES21 = 86	CES46 = 90	CES71 = 85	CES96 = 91
CES22 = 78	CES47 = 86	CES72 = 95	CES97 = 90
CES23 = 91	CES48 = 91	CES73 = 80	CES98 = 91
CES24 = 90	CES49 = 88	CES74 = 94	CES99 = 92
CES25 = 71	CES50 = 94	CES75 = 84	

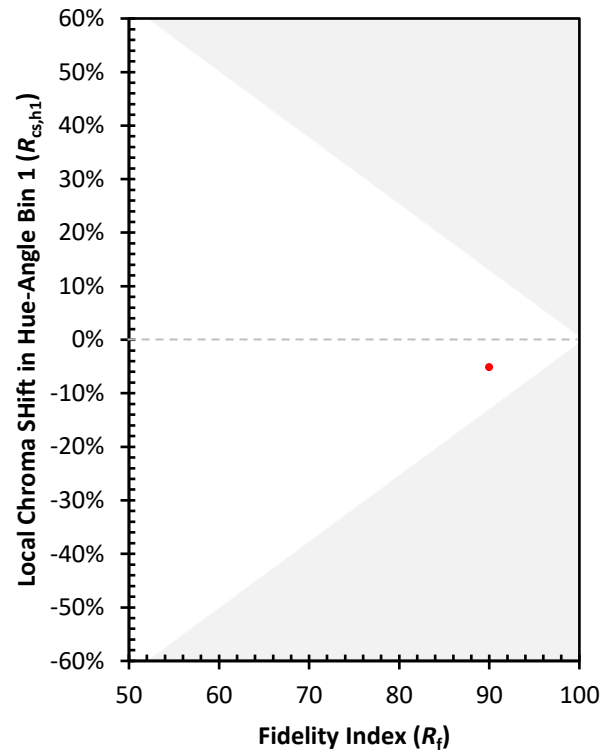
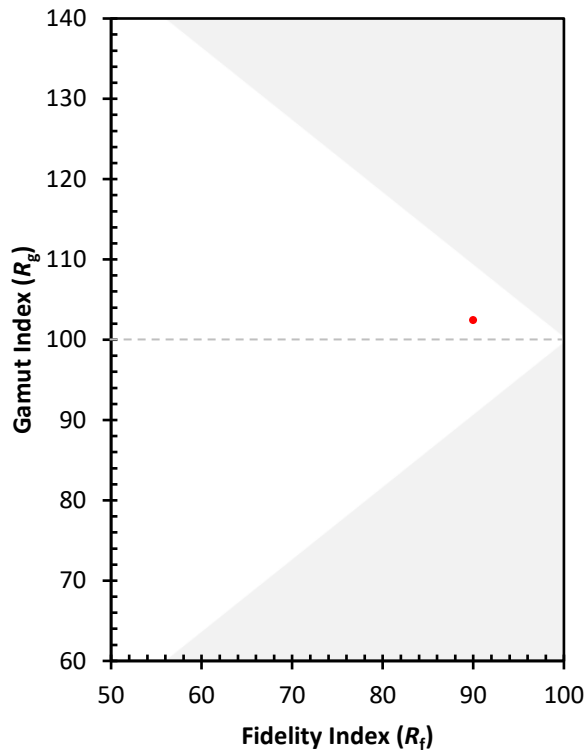


Color Rendition by Hue-Angle Bin


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Measure Comparisons



(END OF REPORT)