

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: P1357296

Luminaire Tested: 6ASL4-10HE-2-35-UNV

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357296
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: 6ASL4-10HE-2-35-UNV
Description: 6FT 1000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 3500K LEDS 2 ROW
Light Source: -
Ballast/Driver: -

Summary

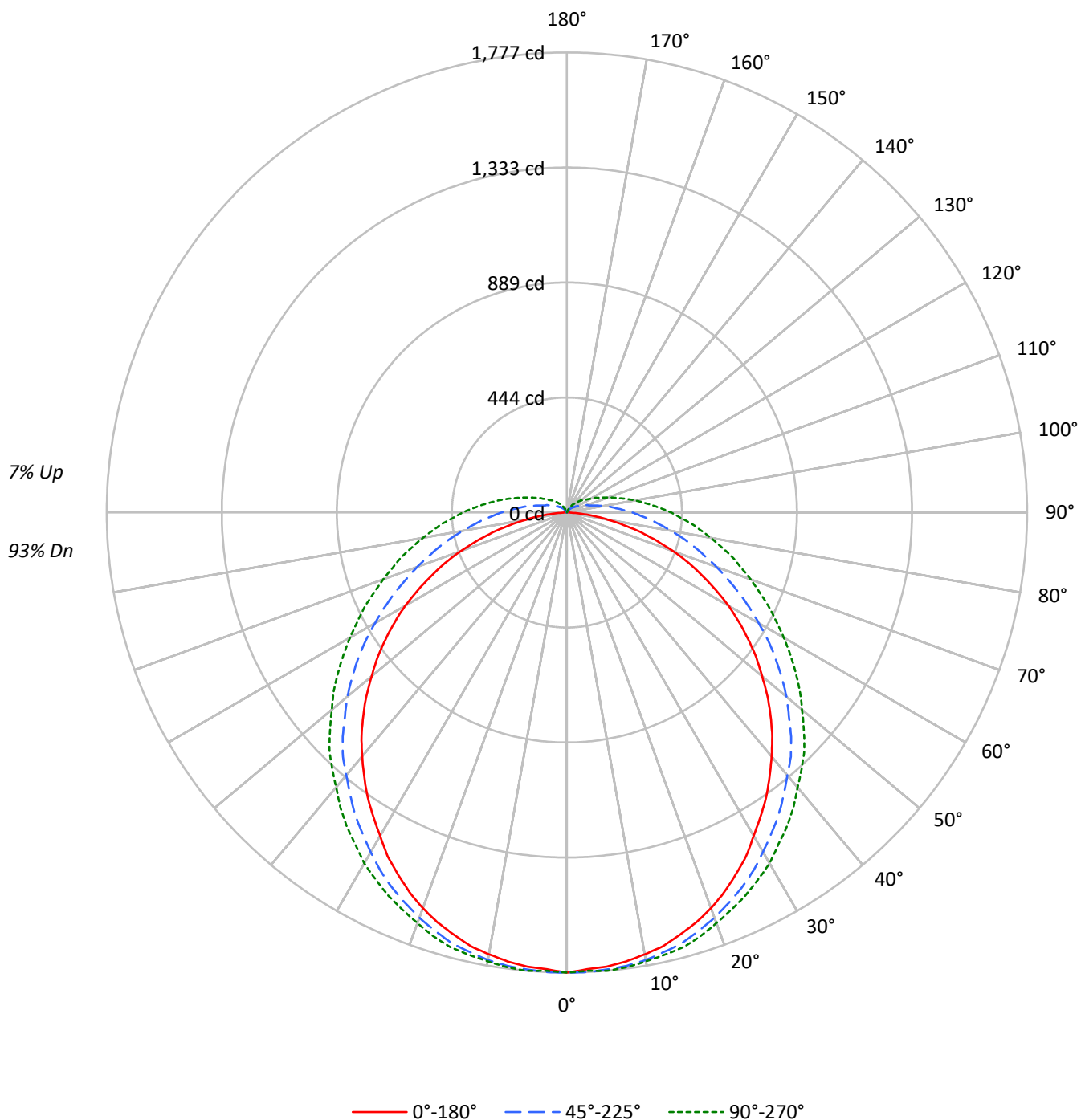
Lumens per Lamp: N/A
Luminaire Lumens: 6102.0 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 5.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 49.8
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			
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°	9599	9599	9599
5°	9531	9414	9380
10°	9473	9245	9152
15°	9394	9060	8968
20°	9289	8824	8711
25°	9119	8592	8489
30°	8904	8325	8268
35°	8738	8078	8012
40°	8545	7810	7743
45°	8350	7581	7546
50°	8097	7276	7255
55°	7857	6948	7023
60°	7560	6579	6777
65°	7092	6237	6586
70°	6570	5916	6411
75°	5803	5673	6354
80°	4588	5462	6333
85°	2889	5479	6515

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8350 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.6	2.8
10°-20°	484.5	7.9
20°-30°	734.2	12.0
30°-40°	888.0	14.6
40°-50°	936.2	15.3
50°-60°	873.7	14.3
60°-70°	721.4	11.8
70°-80°	523.3	8.6
80°-90°	330.6	5.4
90°-100°	197.4	3.2
100°-110°	113.1	1.9
110°-120°	64.3	1.1
120°-130°	36.7	0.6
130°-140°	19.8	0.3
140°-150°	8.7	0.1
150°-160°	1.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1387.3	22.7
0°-40°	2275.3	37.3
0°-60°	4085.2	66.9
0°-90°	5660.5	92.8
90°-120°	374.8	6.1
90°-150°	439.9	7.2
90°-180°	442.0	7.2
0°-180°	6102.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1777	1777	1777	1777	1777	
5°	1761	1777	1772	1772	1777	167
15°	1688	1710	1722	1727	1738	476
25°	1543	1565	1599	1621	1632	711
35°	1342	1375	1425	1464	1481	838
45°	1112	1157	1224	1274	1297	858
55°	855	906	984	1051	1079	764
65°	576	637	732	822	861	572
75°	296	374	509	615	660	312
85°	56	173	324	436	481	68
90°	0	106	252	358	402	2
95°	0	67	190	291	330	0
105°	0	22	106	184	212	0
115°	0	11	62	112	134	0
125°	0	6	39	73	84	0
135°	0	0	22	45	56	0
145°	0	0	11	28	34	0
155°	0	0	0	6	11	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°	1777.4	1777.4	1777.4	1777.4	1777.4
2.5°	1766.3	1783.0	1777.4	1771.9	1771.9
5°	1760.7	1777.4	1771.9	1771.9	1777.4
7.5°	1749.5	1766.3	1766.3	1766.3	1771.9
10°	1732.7	1755.1	1755.1	1755.1	1760.7
12.5°	1716.0	1732.7	1738.3	1743.9	1749.5
15°	1688.0	1710.4	1721.6	1727.1	1738.3
17.5°	1660.1	1676.8	1693.6	1710.4	1716.0
20°	1626.5	1648.9	1665.7	1682.4	1688.0
22.5°	1587.4	1609.8	1632.1	1648.9	1660.1
25°	1542.7	1565.0	1598.6	1620.9	1632.1
27.5°	1498.0	1520.3	1559.5	1587.4	1598.6
30°	1442.1	1475.6	1514.7	1548.3	1565.0
32.5°	1391.8	1425.3	1470.0	1509.2	1520.3
35°	1341.5	1375.0	1425.3	1464.4	1481.2
37.5°	1285.6	1324.7	1375.0	1419.7	1436.5
40°	1229.7	1268.8	1324.7	1375.0	1386.2
42.5°	1173.8	1212.9	1280.0	1324.7	1341.5
45°	1112.3	1157.0	1224.1	1274.4	1296.8
47.5°	1050.8	1095.5	1162.6	1218.5	1240.9
50°	983.7	1034.1	1106.7	1162.6	1185.0
52.5°	922.3	972.6	1045.2	1106.7	1134.7
55°	855.2	905.5	983.7	1050.8	1078.8
57.5°	788.1	838.4	922.3	994.9	1022.9
60°	721.0	771.3	855.2	939.0	967.0
62.5°	648.4	704.3	793.7	877.5	911.1
65°	575.7	637.2	732.2	821.7	860.8
67.5°	508.6	570.1	670.7	771.3	804.9
70°	436.0	503.1	614.8	715.5	754.6
72.5°	363.3	436.0	558.9	665.1	704.3
75°	296.2	374.5	508.6	614.8	659.6
77.5°	223.6	318.6	458.3	570.1	609.3
80°	162.1	262.7	408.0	525.4	564.5
82.5°	106.2	212.4	363.3	480.7	519.8
85°	55.9	173.3	324.2	436.0	480.7
87.5°	16.8	134.1	285.1	396.9	436.0
90°	0.0	106.2	251.5	357.7	402.4
92.5°	0.0	83.8	218.0	324.2	363.3
95°	0.0	67.1	190.0	290.7	329.8
97.5°	0.0	55.9	167.7	262.7	296.2
100°	0.0	44.7	145.3	234.8	268.3
102.5°	0.0	33.5	123.0	206.8	240.3
105°	0.0	22.4	106.2	184.5	212.4
107.5°	0.0	16.8	89.4	162.1	190.0
110°	0.0	16.8	83.8	139.7	167.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	11.2	72.7	128.6	150.9
115°	0.0	11.2	61.5	111.8	134.1
117.5°	0.0	11.2	55.9	100.6	123.0
120°	0.0	11.2	50.3	89.4	106.2
122.5°	0.0	5.6	44.7	78.3	95.0
125°	0.0	5.6	39.1	72.7	83.8
127.5°	0.0	5.6	33.5	67.1	78.3
130°	0.0	5.6	33.5	61.5	72.7
132.5°	0.0	0.0	27.9	55.9	67.1
135°	0.0	0.0	22.4	44.7	55.9
137.5°	0.0	0.0	22.4	39.1	50.3
140°	0.0	0.0	16.8	39.1	44.7
142.5°	0.0	0.0	11.2	33.5	39.1
145°	0.0	0.0	11.2	27.9	33.5
147.5°	0.0	0.0	5.6	22.4	27.9
150°	0.0	0.0	5.6	16.8	22.4
152.5°	0.0	0.0	0.0	11.2	16.8
155°	0.0	0.0	0.0	5.6	11.2
157.5°	0.0	0.0	0.0	0.0	5.6
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	17.18	18.72	17.65	19.18	19.67	19.27	20.80	19.74	21.26	21.75
	3H	18.68	20.08	19.17	20.55	21.08	21.73	23.13	22.22	23.60	24.13
	4H	19.16	20.49	19.67	20.98	21.52	22.95	24.28	23.46	24.77	25.31
	6H	19.44	20.67	19.96	21.17	21.73	24.24	25.48	24.76	25.98	26.54
	8H	19.49	20.68	20.02	21.20	21.77	24.92	26.10	25.45	26.63	27.19
	12H	19.51	20.64	20.04	21.16	21.76	25.67	26.81	26.21	27.32	27.92
4H	2H	18.07	19.39	18.57	19.88	20.42	19.70	21.02	20.20	21.51	22.06
	3H	19.81	20.94	20.33	21.47	22.04	22.39	23.52	22.91	24.05	24.62
	4H	20.42	21.45	20.95	21.99	22.59	23.79	24.82	24.32	25.36	25.96
	6H	20.82	21.73	21.38	22.30	22.91	25.27	26.19	25.83	26.76	27.37
	8H	20.91	21.78	21.48	22.34	22.97	26.05	26.92	26.62	27.48	28.11
	12H	20.96	21.74	21.55	22.34	22.97	26.93	27.72	27.52	28.31	28.94
8H	4H	21.12	21.98	21.68	22.55	23.17	24.00	24.87	24.57	25.43	26.06
	6H	21.70	22.44	22.30	23.04	23.68	25.67	26.40	26.26	27.01	27.64
	8H	21.89	22.55	22.50	23.17	23.81	26.59	27.25	27.20	27.87	28.51
	12H	22.01	22.60	22.62	23.21	23.92	27.66	28.25	28.27	28.85	29.56
12H	4H	21.32	22.10	21.91	22.70	23.33	24.01	24.80	24.60	25.39	26.02
	6H	22.01	22.67	22.62	23.29	23.94	25.70	26.37	26.31	26.98	27.63
	8H	22.30	22.89	22.91	23.50	24.21	26.70	27.29	27.31	27.90	28.61

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

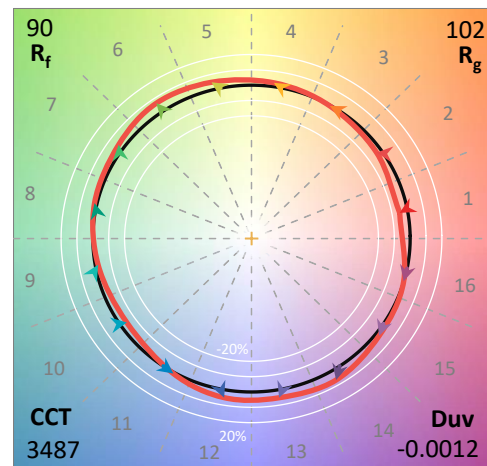
Test Information

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
 Rf: 90
 Rg: 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

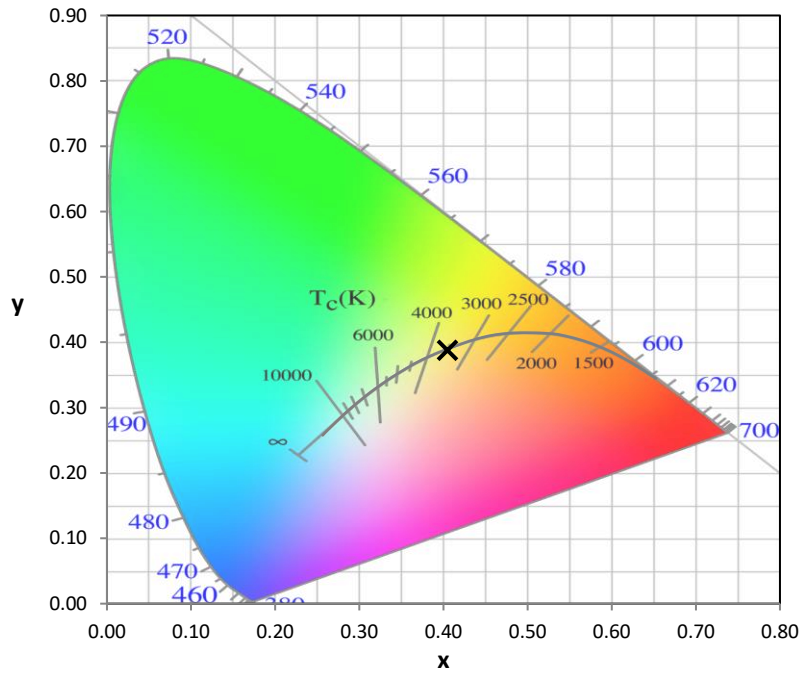
Stabilization Time: 31M
 Operation Time: 1H 31M
 Sphere Temperature (°C): 24.1

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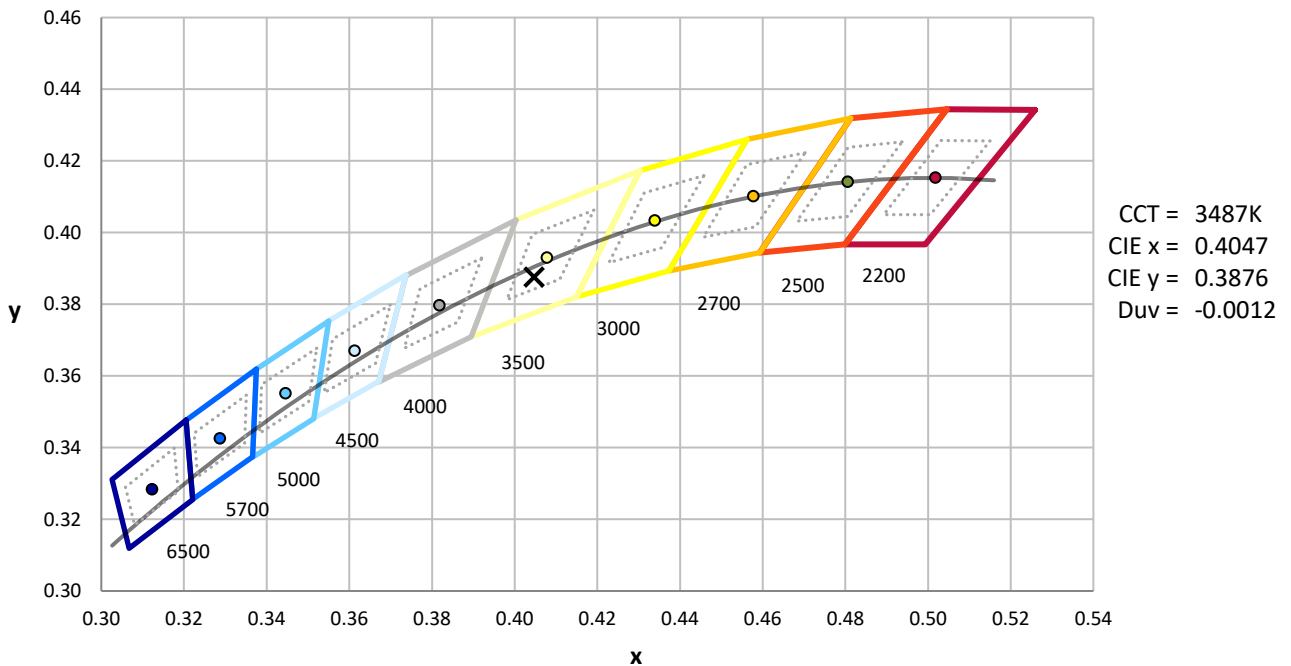
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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



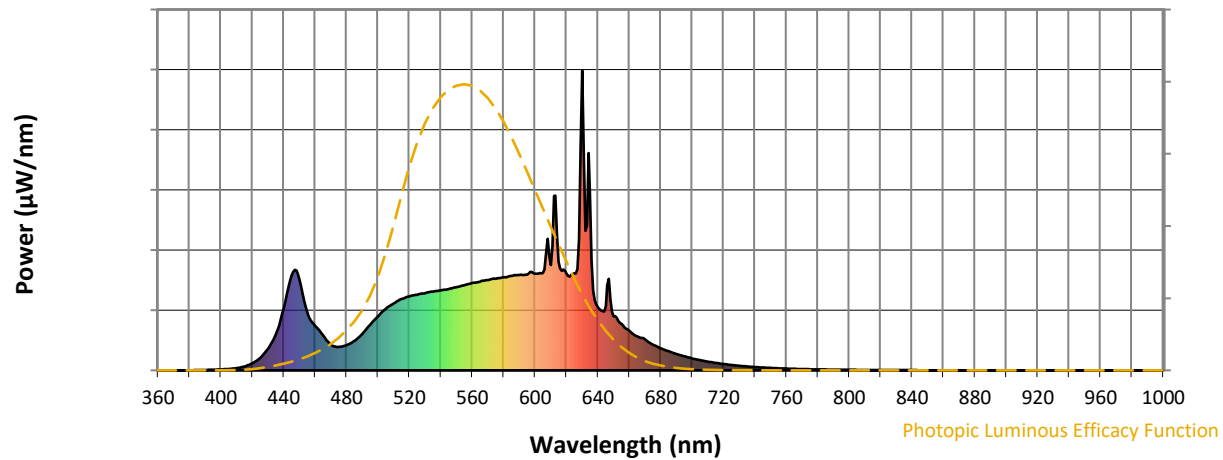
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

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Photopic Flux vs. Wavelength

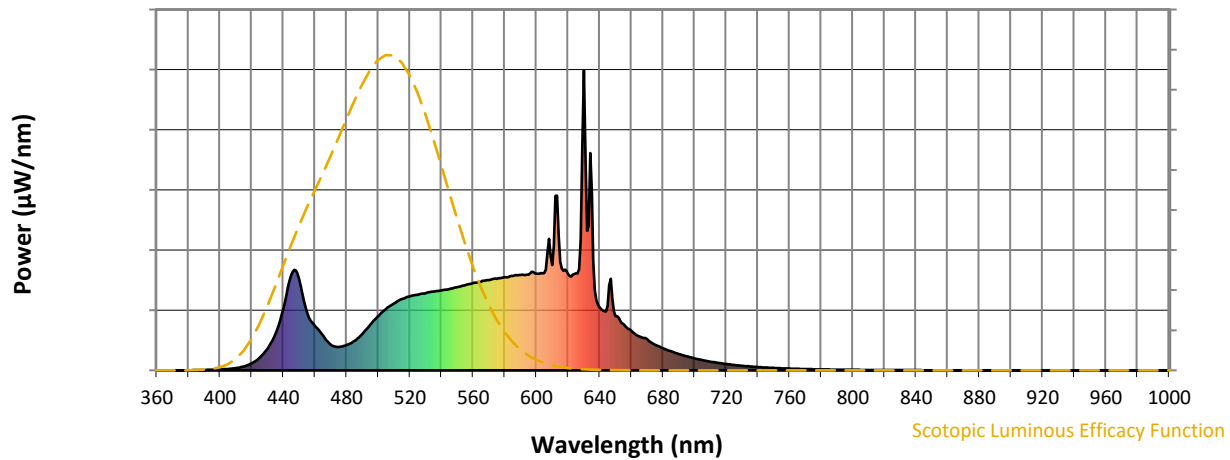


Photopic Lumens: NR

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



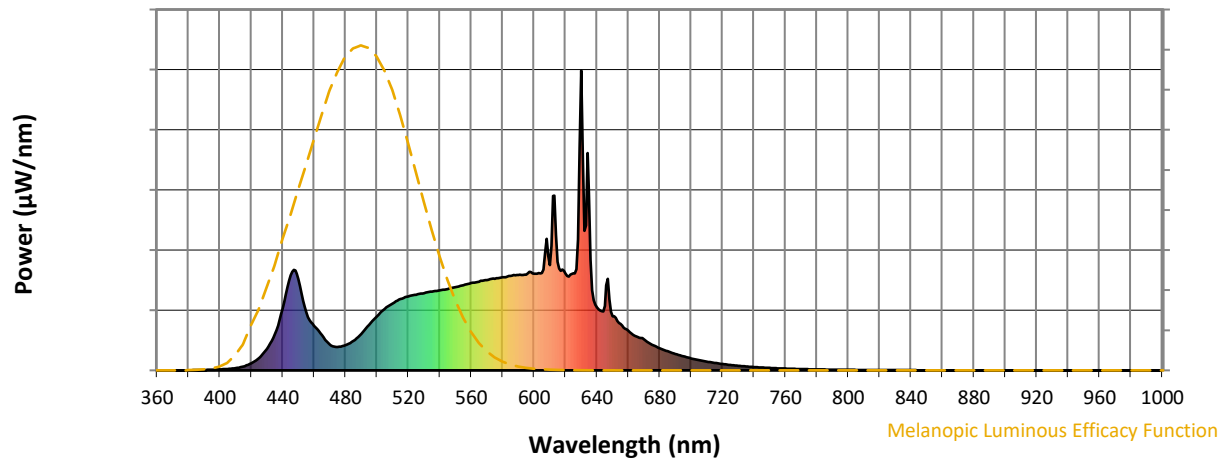
Scotopic Lumens: NR

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

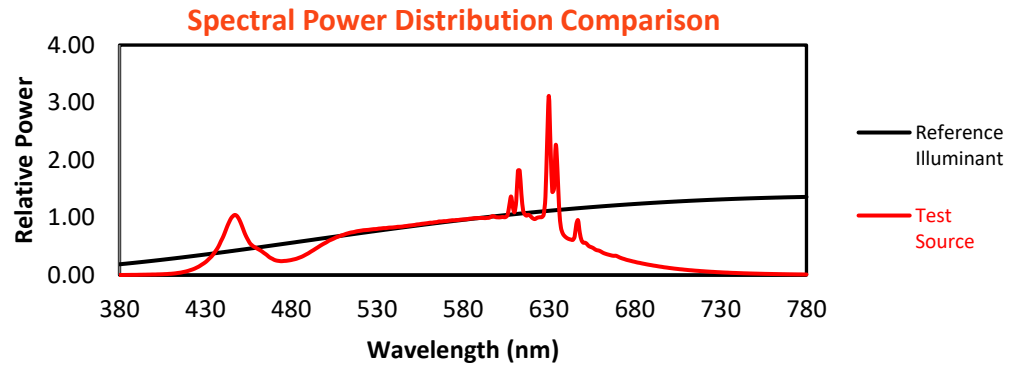
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	122	NR	620	322	NR	750	8	NR	880	0	NR
365	0	NR	495	152	NR	625	323	NR	755	7	NR	885	0	NR
370	0	NR	500	180	NR	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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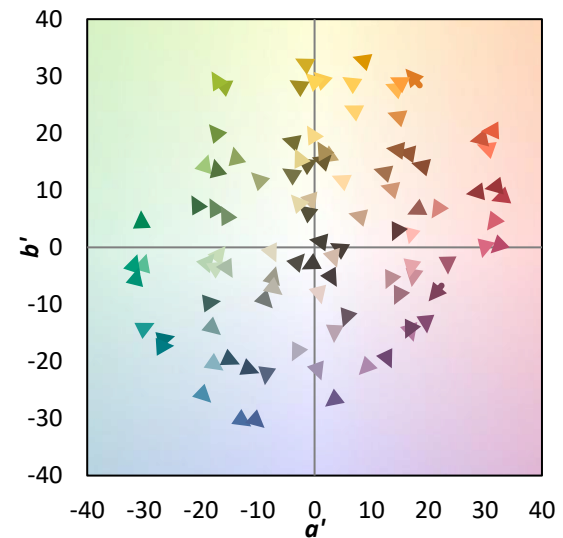
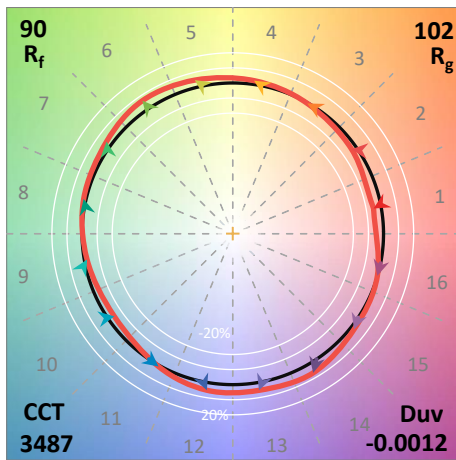
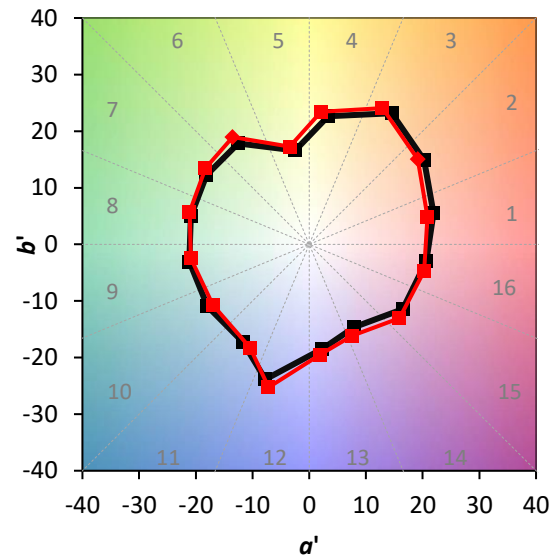
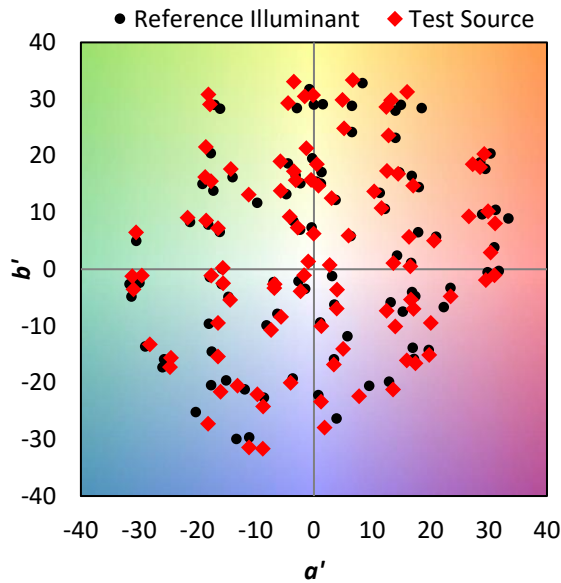
TM-30-18

Summary

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

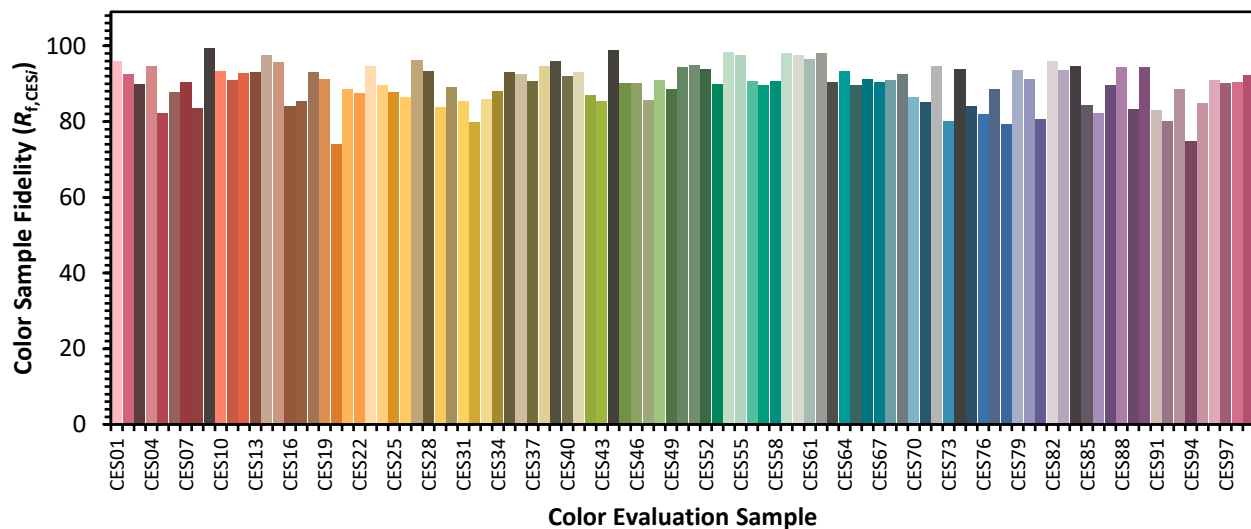


Color Vector Graphics

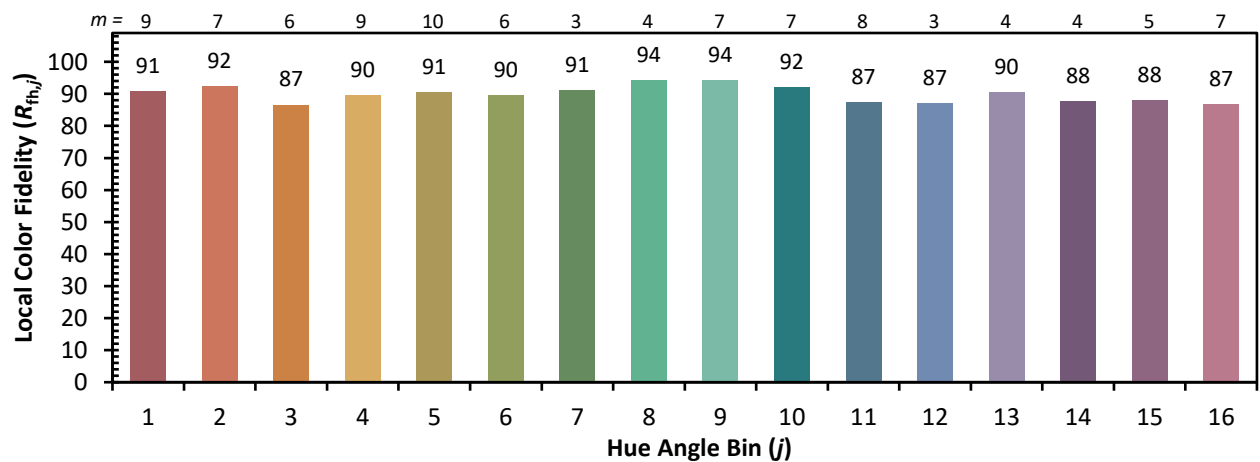
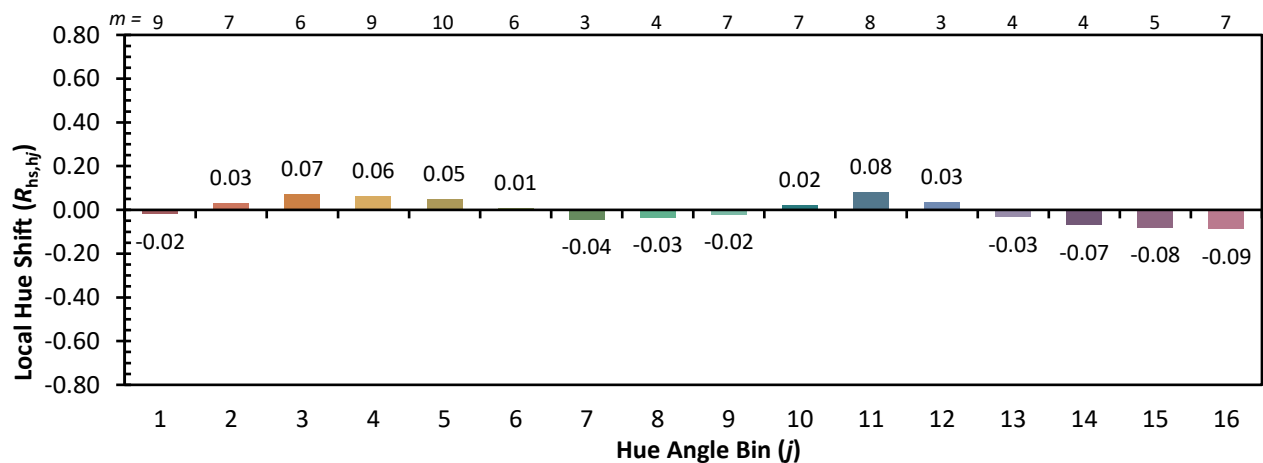
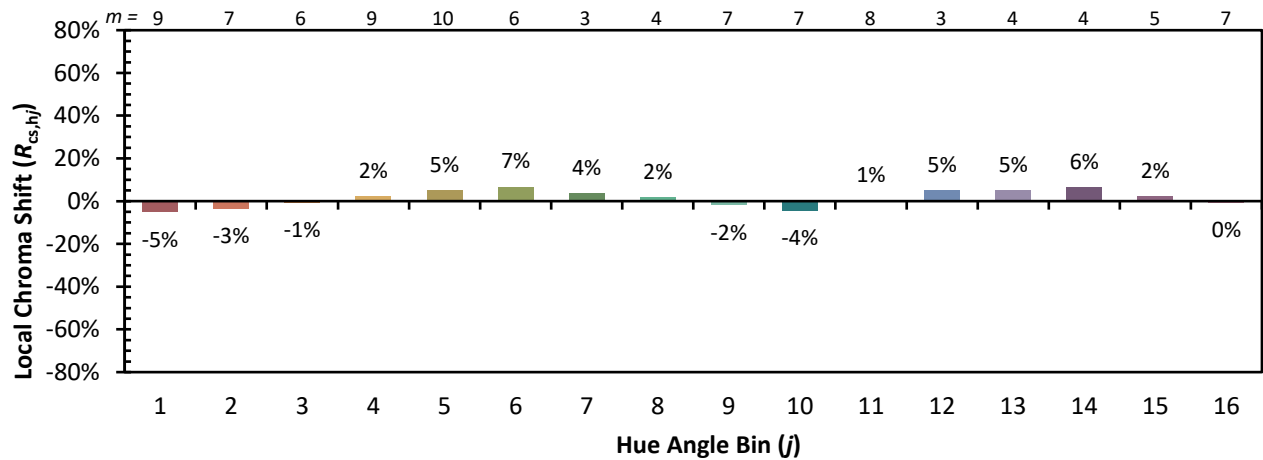


Individual Sample Fidelity Index ($R_{f,i}$)

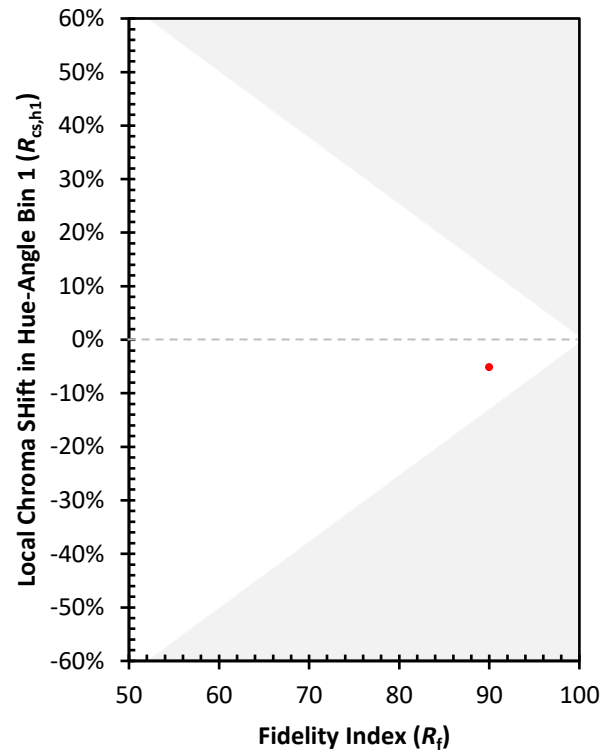
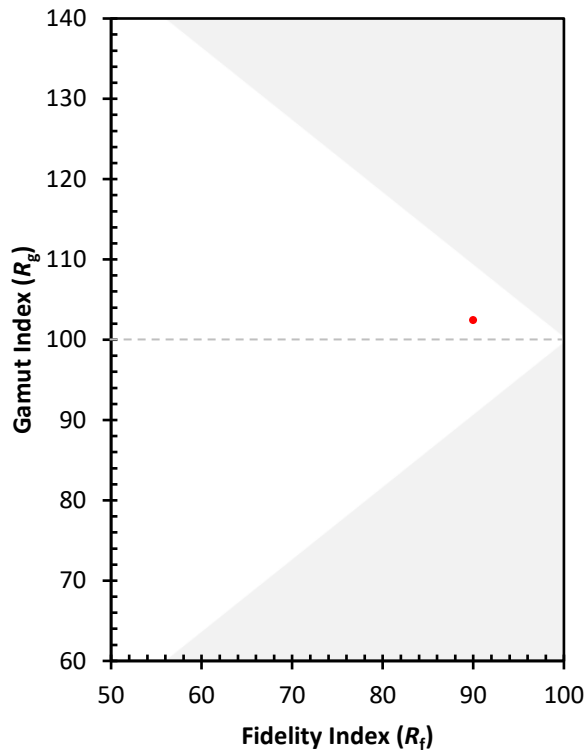
CES01 = 86	CES26 = 87	CES51 = 95	CES76 = 82
CES02 = 62	CES27 = 96	CES52 = 94	CES77 = 89
CES03 = 31	CES28 = 93	CES53 = 90	CES78 = 79
CES04 = 70	CES29 = 84	CES54 = 98	CES79 = 93
CES05 = 50	CES30 = 89	CES55 = 97	CES80 = 91
CES06 = 51	CES31 = 85	CES56 = 91	CES81 = 81
CES07 = 43	CES32 = 80	CES57 = 90	CES82 = 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



Measure Comparisons



(END OF REPORT)