

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: P1357386

Luminaire Tested: 6ASL4-5HE-2-35-UNV

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357386
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: 6ASL4-5HE-2-35-UNV
Description: 6FT 500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 3500K LEDS 2 ROW
Light Source: -
Ballast/Driver: -

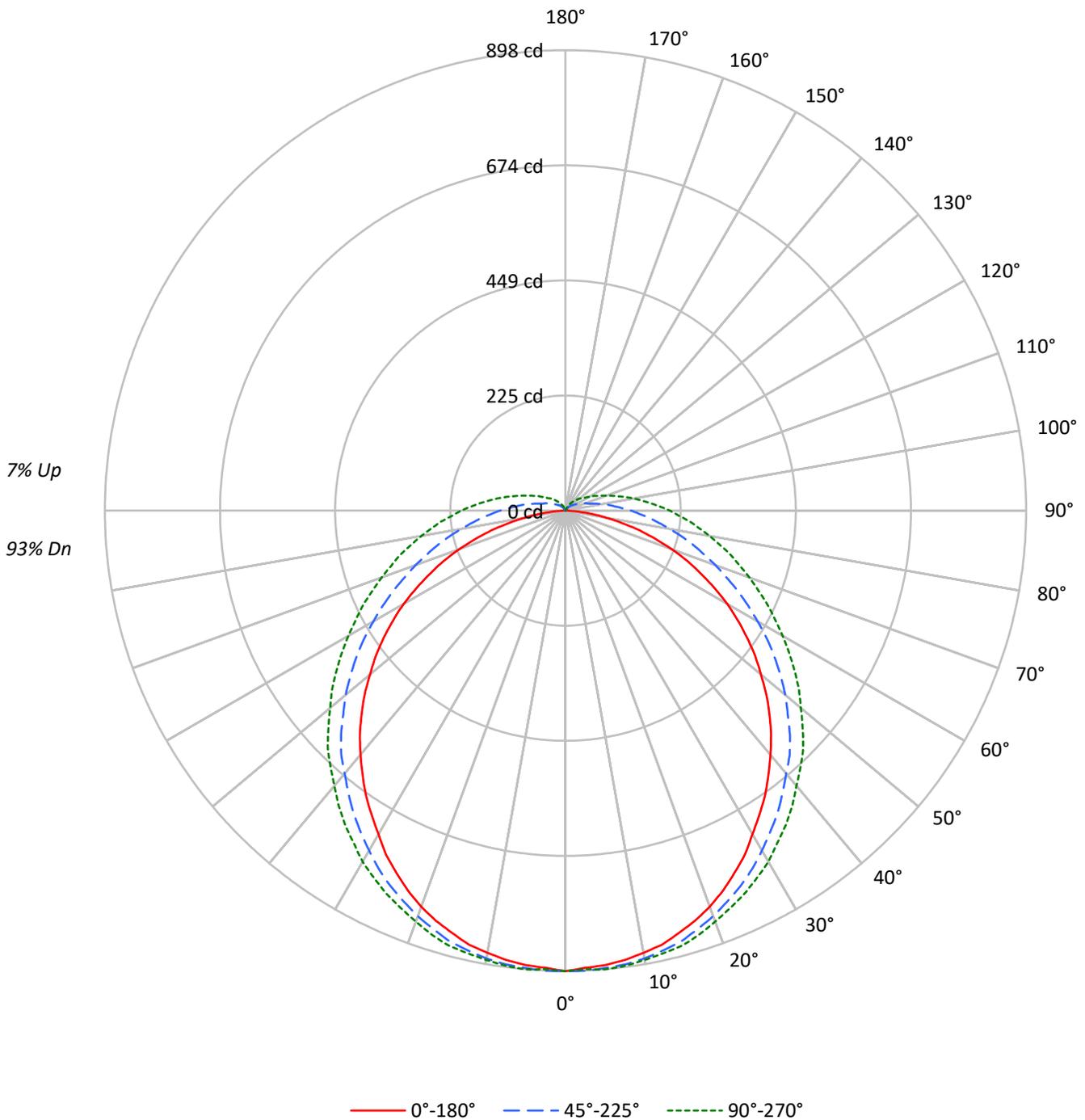
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3083.9 lumens
Efficiency: N/A
Efficacy: 125.4 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): 24.6
Input Voltage (V): NR
Input Current (A_{in}): 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	0
RCR																					
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	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	77	74
2	95	86	79	72	92	84	77	71	79	73	68	74	70	65	70	66	63	63	63	63	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	55	62	57	53	53	53	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	45	45	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	39	39	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	34	34	34	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	30	30	30	28
8	58	44	35	29	56	43	34	29	41	33	28	39	32	28	37	31	27	27	27	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	29	24	24	24	24	22
10	50	37	29	24	49	36	28	23	35	28	23	33	27	22	32	26	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4852	4852	4852
5°	4817	4758	4740
10°	4788	4672	4625
15°	4748	4579	4533
20°	4695	4459	4402
25°	4609	4342	4290
30°	4500	4208	4179
35°	4416	4083	4050
40°	4319	3947	3913
45°	4220	3832	3814
50°	4093	3677	3667
55°	3971	3512	3549
60°	3821	3325	3425
65°	3585	3152	3328
70°	3320	2990	3240
75°	2933	2868	3211
80°	2318	2761	3201
85°	1457	2768	3292

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4220 cd/sqm



TEST NUMBER: P1357386
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.2	2.8
10°-20°	244.9	7.9
20°-30°	371.1	12.0
30°-40°	448.8	14.6
40°-50°	473.1	15.3
50°-60°	441.6	14.3
60°-70°	364.6	11.8
70°-80°	264.5	8.6
80°-90°	167.1	5.4
90°-100°	99.7	3.2
100°-110°	57.2	1.9
110°-120°	32.5	1.1
120°-130°	18.5	0.6
130°-140°	10.0	0.3
140°-150°	4.4	0.1
150°-160°	0.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	701.2	22.7
0°-40°	1149.9	37.3
0°-60°	2064.7	67.0
0°-90°	2860.8	92.8
90°-120°	189.4	6.1
90°-150°	222.3	7.2
90°-180°	223.0	7.2
0°-180°	3083.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	898	898	898	898	898	
5°	890	898	896	896	898	85
15°	853	864	870	873	879	241
25°	780	791	808	819	825	359
35°	678	695	720	740	749	424
45°	562	585	619	644	655	434
55°	432	458	497	531	545	386
65°	291	322	370	415	435	289
75°	150	189	257	311	333	157
85°	28	88	164	220	243	35
90°	0	54	127	181	203	1
95°	0	34	96	147	167	0
105°	0	11	54	93	107	0
115°	0	6	31	56	68	0
125°	0	3	20	37	42	0
135°	0	0	11	23	28	0
145°	0	0	6	14	17	0
155°	0	0	0	3	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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CATALOG NUMBER: 6ASL4-5HE-2-35-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	898.3	898.3	898.3	898.3	898.3
2.5°	892.7	901.2	898.3	895.5	895.5
5°	889.9	898.3	895.5	895.5	898.3
7.5°	884.2	892.7	892.7	892.7	895.5
10°	875.7	887.0	887.0	887.0	889.9
12.5°	867.3	875.7	878.6	881.4	884.2
15°	853.1	864.4	870.1	872.9	878.6
17.5°	839.0	847.5	856.0	864.4	867.3
20°	822.1	833.4	841.8	850.3	853.1
22.5°	802.3	813.6	824.9	833.4	839.0
25°	779.7	791.0	807.9	819.2	824.9
27.5°	757.1	768.4	788.2	802.3	807.9
30°	728.8	745.8	765.6	782.5	791.0
32.5°	703.4	720.4	743.0	762.7	768.4
35°	678.0	694.9	720.4	740.1	748.6
37.5°	649.7	669.5	694.9	717.5	726.0
40°	621.5	641.3	669.5	694.9	700.6
42.5°	593.2	613.0	646.9	669.5	678.0
45°	562.2	584.8	618.7	644.1	655.4
47.5°	531.1	553.7	587.6	615.8	627.1
50°	497.2	522.6	559.3	587.6	598.9
52.5°	466.1	491.5	528.3	559.3	573.5
55°	432.2	457.6	497.2	531.1	545.2
57.5°	398.3	423.7	466.1	502.8	517.0
60°	364.4	389.8	432.2	474.6	488.7
62.5°	327.7	355.9	401.1	443.5	460.5
65°	291.0	322.0	370.1	415.3	435.0
67.5°	257.1	288.1	339.0	389.8	406.8
70°	220.3	254.2	310.7	361.6	381.4
72.5°	183.6	220.3	282.5	336.2	355.9
75°	149.7	189.3	257.1	310.7	333.3
77.5°	113.0	161.0	231.6	288.1	307.9
80°	81.9	132.8	206.2	265.5	285.3
82.5°	53.7	107.3	183.6	242.9	262.7
85°	28.2	87.6	163.8	220.3	242.9
87.5°	8.5	67.8	144.1	200.6	220.3
90°	0.0	53.7	127.1	180.8	203.4
92.5°	0.0	42.4	110.2	163.8	183.6
95°	0.0	33.9	96.0	146.9	166.7
97.5°	0.0	28.2	84.7	132.8	149.7
100°	0.0	22.6	73.4	118.6	135.6
102.5°	0.0	16.9	62.1	104.5	121.5
105°	0.0	11.3	53.7	93.2	107.3
107.5°	0.0	8.5	45.2	81.9	96.0
110°	0.0	8.5	42.4	70.6	84.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	5.6	36.7	65.0	76.3
115°	0.0	5.6	31.1	56.5	67.8
117.5°	0.0	5.6	28.2	50.8	62.1
120°	0.0	5.6	25.4	45.2	53.7
122.5°	0.0	2.8	22.6	39.5	48.0
125°	0.0	2.8	19.8	36.7	42.4
127.5°	0.0	2.8	16.9	33.9	39.5
130°	0.0	2.8	16.9	31.1	36.7
132.5°	0.0	0.0	14.1	28.2	33.9
135°	0.0	0.0	11.3	22.6	28.2
137.5°	0.0	0.0	11.3	19.8	25.4
140°	0.0	0.0	8.5	19.8	22.6
142.5°	0.0	0.0	5.6	16.9	19.8
145°	0.0	0.0	5.6	14.1	16.9
147.5°	0.0	0.0	2.8	11.3	14.1
150°	0.0	0.0	2.8	8.5	11.3
152.5°	0.0	0.0	0.0	5.6	8.5
155°	0.0	0.0	0.0	2.8	5.6
157.5°	0.0	0.0	0.0	0.0	2.8
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	14.81	16.34	15.28	16.80	17.29	16.90	18.43	17.37	18.89	19.38
	3H	16.31	17.71	16.80	18.18	18.71	19.36	20.76	19.85	21.23	21.76
	4H	16.79	18.12	17.30	18.61	19.15	20.58	21.91	21.09	22.40	22.94
	6H	17.07	18.30	17.58	18.80	19.36	21.87	23.11	22.39	23.61	24.17
	8H	17.12	18.30	17.65	18.83	19.39	22.54	23.73	23.08	24.25	24.82
	12H	17.13	18.27	17.67	18.79	19.39	23.30	24.44	23.84	24.95	25.55
4H	2H	15.69	17.02	16.20	17.51	18.05	17.33	18.65	17.83	19.14	19.69
	3H	17.44	18.57	17.96	19.10	19.67	20.02	21.15	20.54	21.68	22.25
	4H	18.04	19.08	18.58	19.62	20.22	21.41	22.45	21.95	22.99	23.59
	6H	18.45	19.36	19.00	19.93	20.54	22.90	23.82	23.46	24.38	25.00
	8H	18.54	19.40	19.11	19.97	20.60	23.68	24.55	24.25	25.11	25.74
	12H	18.59	19.37	19.18	19.97	20.60	24.56	25.34	25.15	25.94	26.57
8H	4H	18.75	19.61	19.31	20.17	20.80	21.63	22.50	22.20	23.06	23.69
	6H	19.33	20.06	19.93	20.67	21.30	23.30	24.03	23.89	24.63	25.27
	8H	19.52	20.18	20.13	20.80	21.44	24.22	24.88	24.83	25.50	26.14
	12H	19.64	20.23	20.25	20.84	21.55	25.29	25.88	25.90	26.48	27.19
12H	4H	18.95	19.73	19.54	20.33	20.96	21.64	22.43	22.23	23.02	23.65
	6H	19.64	20.30	20.25	20.92	21.57	23.33	23.99	23.94	24.61	25.26
	8H	19.93	20.52	20.54	21.13	21.84	24.33	24.92	24.94	25.53	26.24

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



Test Conditions

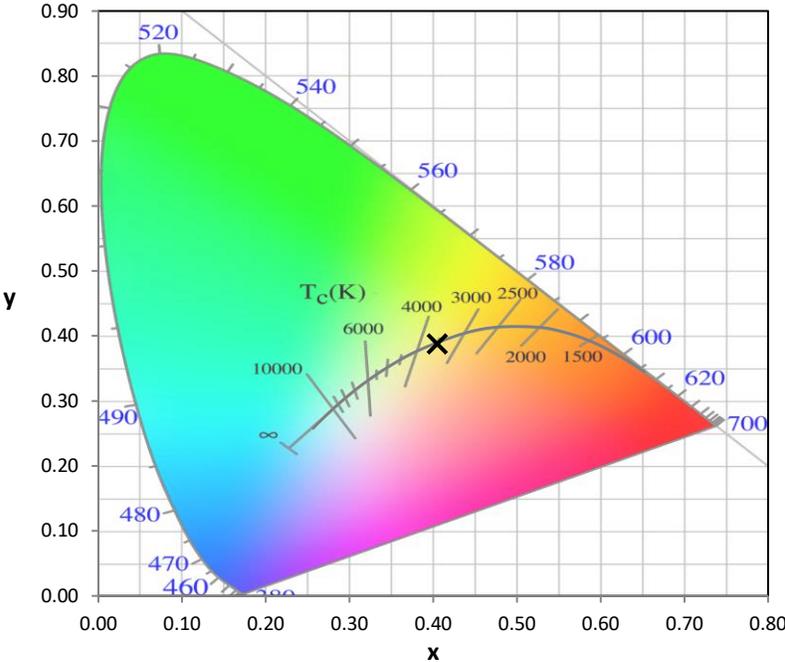
Stabilization Time: 31M
 Operation Time: 1H 31M
 Sphere Temperature (°C): 24.1

REPORT NUMBER: SP1-2511-597-1

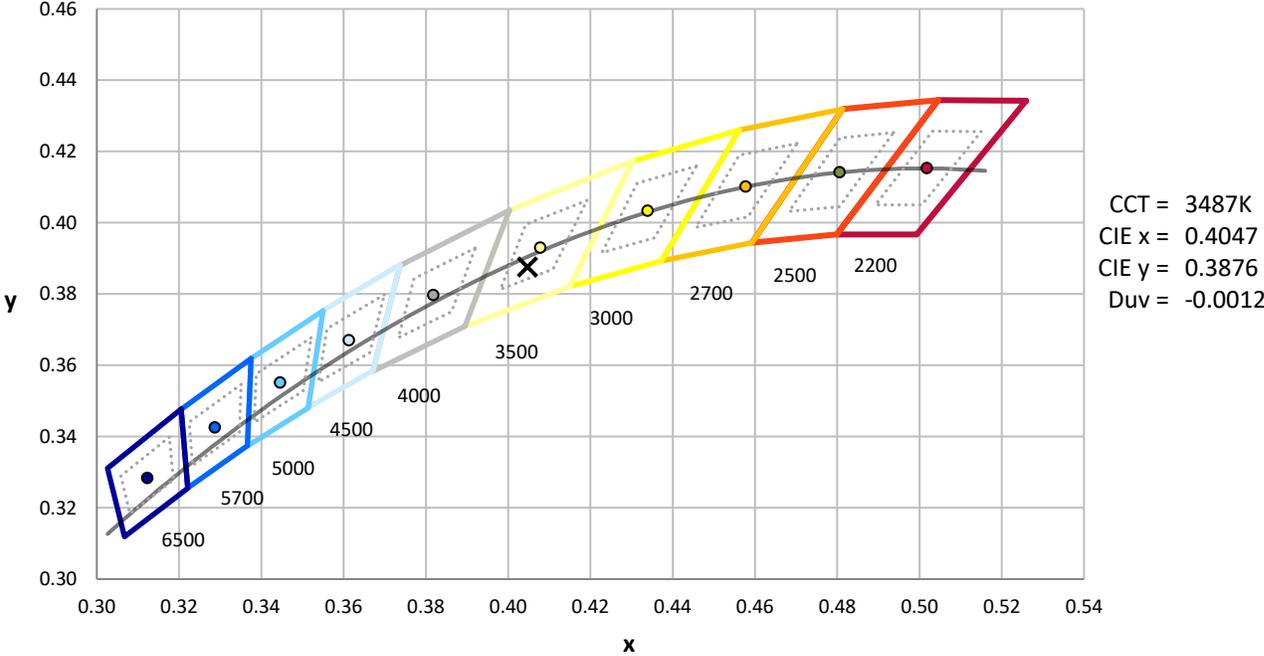
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

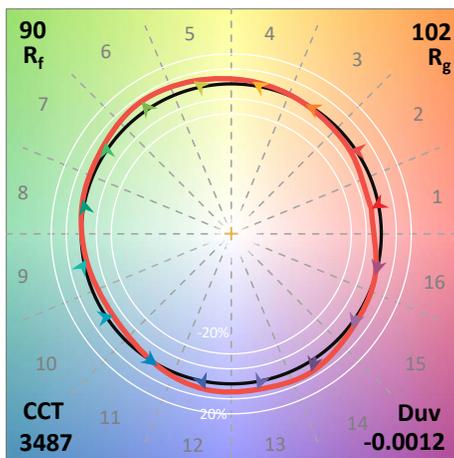
λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)
360	0	NR	490	122	NR	620	322	NR	750	8	NR	880	0	NR
365	0	NR	495	152	NR	625	323	NR	755	7	NR	885	0	NR
370	0	NR	500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

Summary

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



Color Vector Graphics

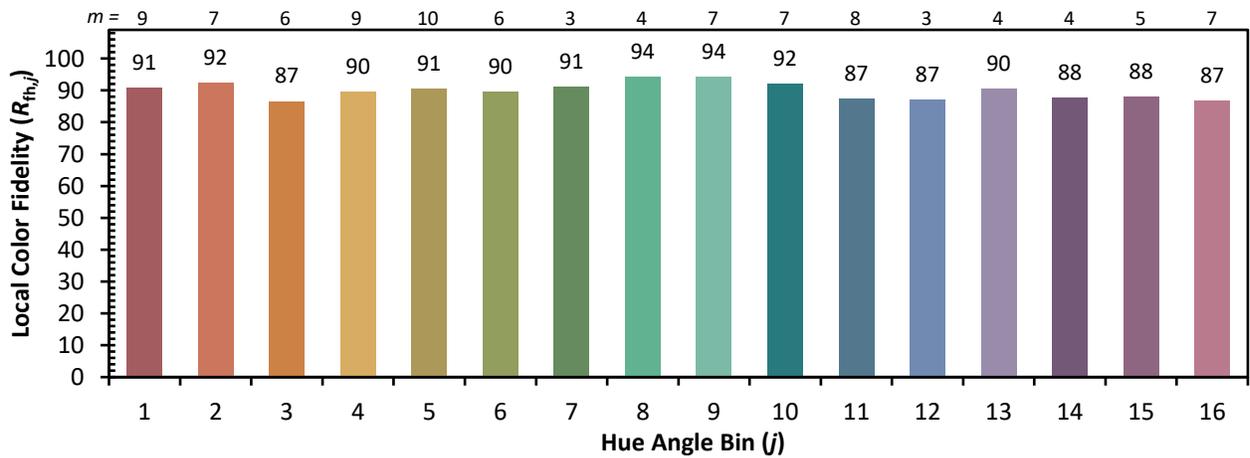
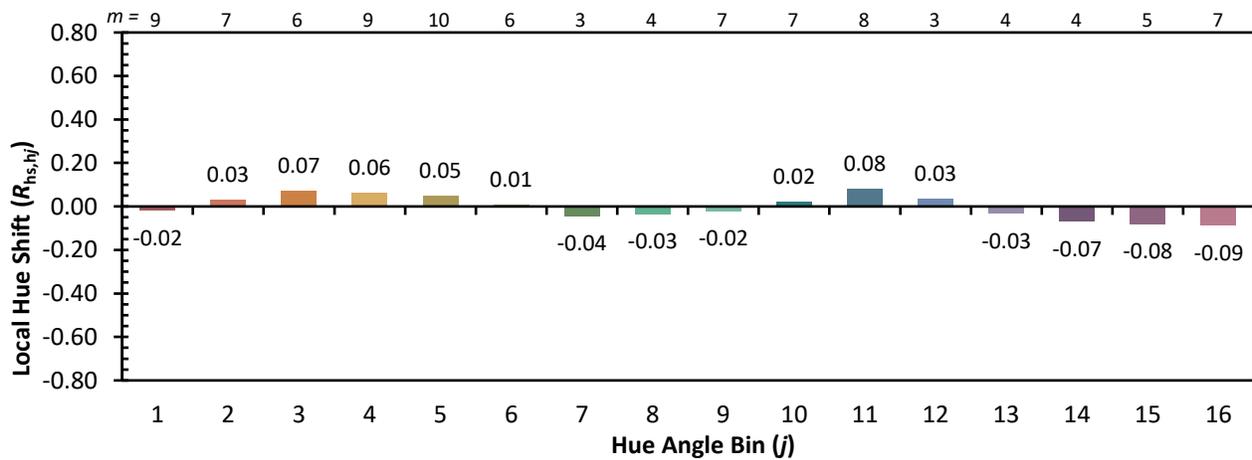
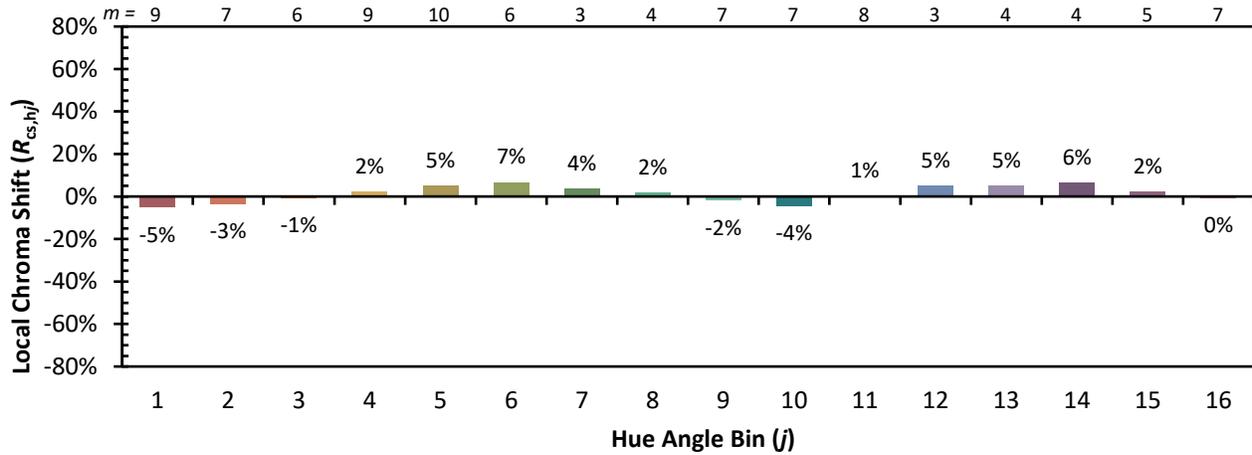


Individual Sample Fidelity Index ($R_{f,i}$)

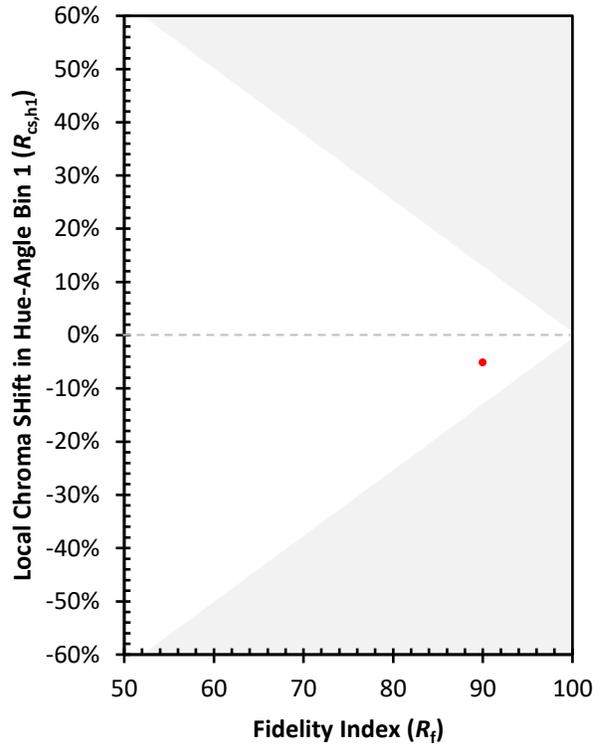
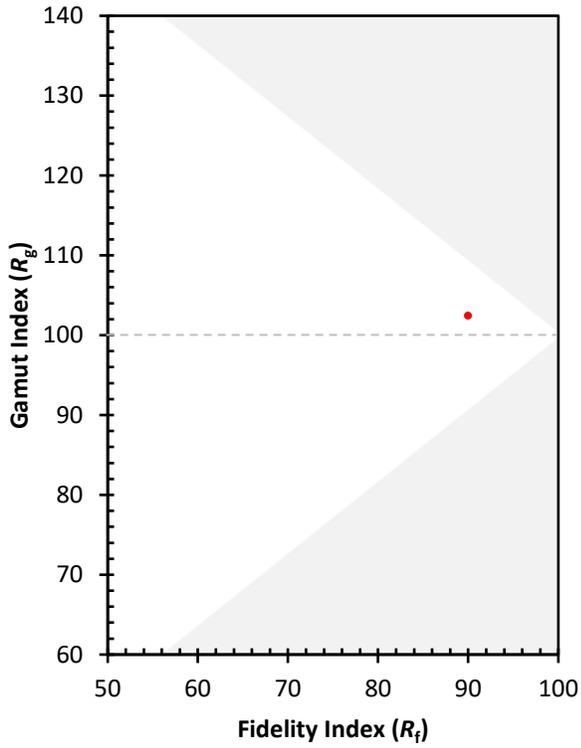
CES01 = 86	CES26 = 87	CES51 = 95	CES76 = 82
CES02 = 62	CES27 = 96	CES52 = 94	CES77 = 89
CES03 = 31	CES28 = 93	CES53 = 90	CES78 = 79
CES04 = 70	CES29 = 84	CES54 = 98	CES79 = 93
CES05 = 50	CES30 = 89	CES55 = 97	CES80 = 91
CES06 = 51	CES31 = 85	CES56 = 91	CES81 = 81
CES07 = 43	CES32 = 80	CES57 = 90	CES82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