

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: P1357366

Luminaire Tested: 6ASL4-35VHE-3-27-UNV

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357366
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: 6ASL4-35VHE-3-27-UNV
Description: 6FT 3500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 2700K LEDS 3 ROW
Light Source: -
Ballast/Driver: -

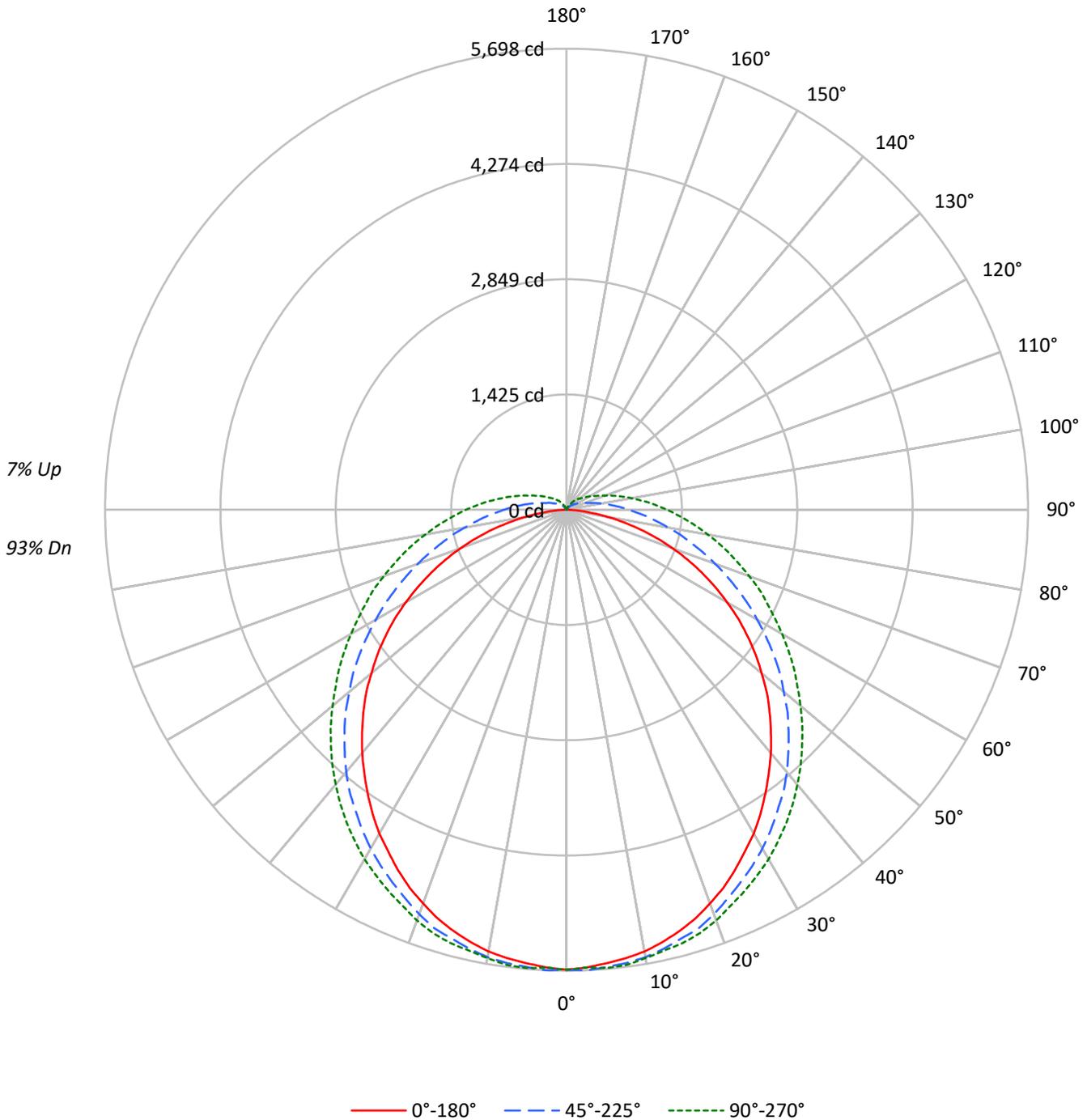
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19332.0 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 5.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 189.6
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

TEST NUMBER: P1357366
CATALOG NUMBER: 6ASL4-35VHE-3-27-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			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	96	96	96	96	96	96	93
1	105	100	95	91	102	97	92	88	91	88	84	86	83	80	81	79	77	77	77	77	74
2	95	86	79	72	92	84	77	71	79	73	68	75	70	66	71	67	63	63	63	63	61
3	86	75	67	60	83	73	65	59	69	62	57	65	60	55	62	57	53	53	53	53	50
4	79	66	57	50	76	65	56	49	61	54	48	58	52	47	55	50	45	45	45	45	43
5	73	59	50	43	70	58	49	42	55	47	41	52	45	40	49	44	39	39	39	39	37
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	45	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	35	29	41	34	28	39	32	28	37	32	27	27	27	27	25
9	54	40	32	26	52	39	31	26	38	30	25	36	30	25	35	29	24	24	24	24	22
10	50	37	29	24	49	36	29	23	35	28	23	33	27	23	32	26	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	30708	30708	30708
5°	30458	30146	30005
10°	30311	29576	29246
15°	29999	28863	28603
20°	29570	28180	27877
25°	29067	27318	27052
30°	28536	26571	26354
35°	27873	25725	25577
40°	27270	24951	24760
45°	26621	24012	23938
50°	25881	23003	23085
55°	25087	22041	22317
60°	24045	20916	21539
65°	22716	19835	20893
70°	21020	18768	20387
75°	18529	17801	20041
80°	14721	17091	19892
85°	9162	16982	20187

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26621 cd/sqm



TEST NUMBER: P1357366
 CATALOG NUMBER: 6ASL4-35VHE-3-27-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	539.2	2.8
10°-20°	1548.0	8.0
20°-30°	2340.5	12.1
30°-40°	2834.0	14.7
40°-50°	2976.6	15.4
50°-60°	2777.0	14.4
60°-70°	2295.0	11.9
70°-80°	1652.5	8.5
80°-90°	1026.9	5.3
90°-100°	601.7	3.1
100°-110°	344.2	1.8
110°-120°	194.4	1.0
120°-130°	111.8	0.6
130°-140°	60.2	0.3
140°-150°	25.4	0.1
150°-160°	4.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4427.7	22.9
0°-40°	7261.7	37.6
0°-60°	13015.3	67.3
0°-90°	17989.6	93.1
90°-120°	1140.2	5.9
90°-150°	1337.7	6.9
90°-180°	1342.0	6.9
0°-180°	19332.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5686	5686	5686	5686	5686	
5°	5627	5674	5674	5674	5686	535
15°	5390	5461	5485	5520	5544	1520
25°	4917	5000	5083	5154	5201	2265
35°	4279	4397	4539	4669	4728	2679
45°	3546	3676	3877	4043	4114	2736
55°	2731	2884	3121	3345	3428	2440
65°	1844	2021	2329	2624	2731	1825
75°	946	1182	1596	1939	2080	1000
85°	177	532	1005	1359	1489	217
90°	0	319	768	1099	1241	8
95°	0	201	579	887	1017	0
105°	0	71	319	556	650	0
115°	0	36	189	343	402	0
125°	0	24	118	225	260	0
135°	0	0	71	142	177	0
145°	0	0	36	83	95	0
155°	0	0	0	24	36	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P1357366

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5685.8	5685.8	5685.8	5685.8	5685.8
2.5°	5662.2	5697.6	5697.6	5662.2	5662.2
5°	5626.7	5674.0	5674.0	5674.0	5685.8
7.5°	5591.2	5650.3	5650.3	5650.3	5674.0
10°	5544.0	5603.1	5614.9	5614.9	5626.7
12.5°	5473.0	5544.0	5555.8	5567.6	5579.4
15°	5390.3	5461.2	5484.8	5520.3	5544.0
17.5°	5295.7	5378.5	5425.7	5461.2	5484.8
20°	5177.5	5260.3	5319.4	5366.6	5402.1
22.5°	5059.3	5130.2	5201.1	5260.3	5295.7
25°	4917.4	5000.2	5082.9	5153.9	5201.1
27.5°	4763.8	4858.3	4964.7	5047.5	5094.8
30°	4621.9	4716.5	4834.7	4941.1	4988.4
32.5°	4456.4	4562.8	4692.9	4799.2	4858.3
35°	4279.1	4397.3	4539.2	4669.2	4728.3
37.5°	4101.8	4220.0	4397.3	4527.4	4586.5
40°	3924.5	4042.7	4231.8	4373.7	4432.8
42.5°	3735.4	3853.6	4054.5	4208.2	4279.1
45°	3546.2	3676.3	3877.2	4042.7	4113.6
47.5°	3357.1	3487.1	3699.9	3877.2	3948.1
50°	3144.3	3286.2	3499.0	3699.9	3770.8
52.5°	2943.4	3085.2	3321.6	3522.6	3593.5
55°	2730.6	2884.3	3120.7	3345.3	3428.0
57.5°	2517.8	2671.5	2919.7	3156.2	3250.7
60°	2293.2	2458.7	2718.8	2967.0	3073.4
62.5°	2068.6	2246.0	2529.6	2789.7	2896.1
65°	1844.0	2021.4	2328.7	2624.2	2730.6
67.5°	1619.4	1808.6	2139.6	2446.9	2576.9
70°	1394.9	1595.8	1950.4	2269.6	2399.6
72.5°	1170.3	1383.0	1773.1	2104.1	2234.1
75°	945.7	1182.1	1595.8	1938.6	2080.5
77.5°	721.1	992.9	1442.1	1784.9	1926.8
80°	520.1	827.5	1276.6	1631.3	1773.1
82.5°	331.0	662.0	1134.8	1489.4	1631.3
85°	177.3	531.9	1004.8	1359.4	1489.4
87.5°	59.1	413.7	874.7	1229.4	1359.4
90°	0.0	319.2	768.4	1099.3	1241.2
92.5°	0.0	248.2	673.8	992.9	1123.0
95°	0.0	201.0	579.2	886.6	1016.6
97.5°	0.0	165.5	508.3	792.0	910.2
100°	0.0	130.0	437.4	709.2	815.6
102.5°	0.0	106.4	378.3	626.5	732.9
105°	0.0	70.9	319.2	555.6	650.1
107.5°	0.0	59.1	271.9	496.5	579.2
110°	0.0	47.3	248.2	425.5	508.3



TEST NUMBER: P1357366
 CATALOG NUMBER: 6ASL4-35VHE-3-27-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	35.5	224.6	378.3	461.0
115°	0.0	35.5	189.1	342.8	401.9
117.5°	0.0	35.5	165.5	307.3	366.4
120°	0.0	23.6	153.7	271.9	331.0
122.5°	0.0	23.6	130.0	248.2	295.5
125°	0.0	23.6	118.2	224.6	260.1
127.5°	0.0	11.8	106.4	201.0	236.4
130°	0.0	11.8	94.6	177.3	212.8
132.5°	0.0	11.8	82.7	165.5	201.0
135°	0.0	0.0	70.9	141.8	177.3
137.5°	0.0	0.0	59.1	130.0	153.7
140°	0.0	0.0	47.3	106.4	141.8
142.5°	0.0	0.0	35.5	94.6	118.2
145°	0.0	0.0	35.5	82.7	94.6
147.5°	0.0	0.0	23.6	59.1	82.7
150°	0.0	0.0	11.8	47.3	59.1
152.5°	0.0	0.0	0.0	35.5	47.3
155°	0.0	0.0	0.0	23.6	35.5
157.5°	0.0	0.0	0.0	0.0	11.8
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	21.24	22.78	21.71	23.24	23.72	23.30	24.84	23.76	25.29	25.77
	3H	22.74	24.14	23.22	24.61	25.13	25.77	27.18	26.25	27.64	28.16
	4H	23.22	24.55	23.72	25.03	25.57	26.98	28.31	27.48	28.79	29.33
	6H	23.49	24.73	24.01	25.23	25.78	28.25	29.49	28.77	29.99	30.54
	8H	23.54	24.73	24.07	25.25	25.81	28.91	30.10	29.44	30.62	31.18
	12H	23.56	24.70	24.09	25.21	25.80	29.65	30.79	30.18	31.30	31.89
4H	2H	22.12	23.45	22.63	23.94	24.47	23.73	25.06	24.23	25.54	26.08
	3H	23.86	24.99	24.37	25.52	26.08	26.43	27.56	26.94	28.09	28.65
	4H	24.46	25.50	25.00	26.04	26.63	27.81	28.85	28.34	29.38	29.98
	6H	24.86	25.78	25.41	26.34	26.95	29.27	30.19	29.83	30.75	31.36
	8H	24.95	25.82	25.51	26.38	27.00	30.04	30.90	30.60	31.46	32.08
	12H	25.00	25.78	25.58	26.37	27.00	30.90	31.68	31.48	32.27	32.90
8H	4H	25.15	26.01	25.71	26.57	27.19	28.02	28.89	28.58	29.45	30.07
	6H	25.73	26.46	26.32	27.06	27.69	29.66	30.39	30.25	30.99	31.62
	8H	25.91	26.57	26.51	27.19	27.82	30.56	31.22	31.17	31.84	32.48
	12H	26.03	26.62	26.63	27.22	27.92	31.61	32.20	32.21	32.80	33.51
12H	4H	25.35	26.13	25.93	26.72	27.34	28.03	28.82	28.61	29.41	30.03
	6H	26.03	26.69	26.63	27.30	27.94	29.69	30.35	30.30	30.97	31.61
	8H	26.31	26.90	26.91	27.50	28.20	30.67	31.26	31.28	31.86	32.57

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

Report Prepared for

Cooper Lighting Solutions

Fail-Safe

Report Number: SP1-2511-597-2

Test Date: 11/17/2025

Luminaire Tested: 4ASL-2-27-UNV-OPL-1_600mA

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

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2511-597-2
 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-2-27-UNV-OPL-1_600mA**
 Description: 2foot 4ASL LED LUMINAIRE WITH OPL LENS AND 2700K LEDs with 1 rows at 600mA

Spectral Parameters

CCT (K): 2696
 CIE u': 0.2632
 CIE v': 0.5245
 Duv: -0.0020
 CIE x: 0.4568
 CIE y: 0.4045
 CIE z: 0.1387
 Peak Wavelength (nm): 630
 Dominant Wavelength (nm): 584
 Purity: 58.52757
 R_f: 90.1
 R_g: 103.5

CRI (Ra):	94.4		
R1:	97.5	R9:	61.8
R2:	97.8	R10:	93.6
R3:	96.9	R11:	93.7
R4:	95.3	R12:	94.1
R5:	97.2	R13:	97.6
R6:	96.5	R14:	96.8
R7:	91.2	R15:	91.9
R8:	83.2		



Test Conditions

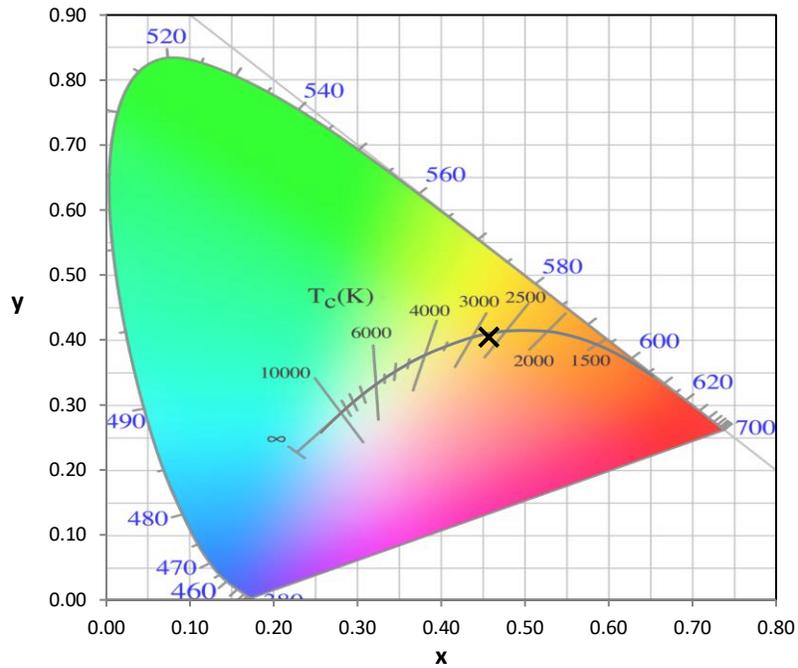
Stabilization Time: 32M
 Operation Time: 1H 32M
 Sphere Temperature (°C): 24.1

REPORT NUMBER: SP1-2511-597-2

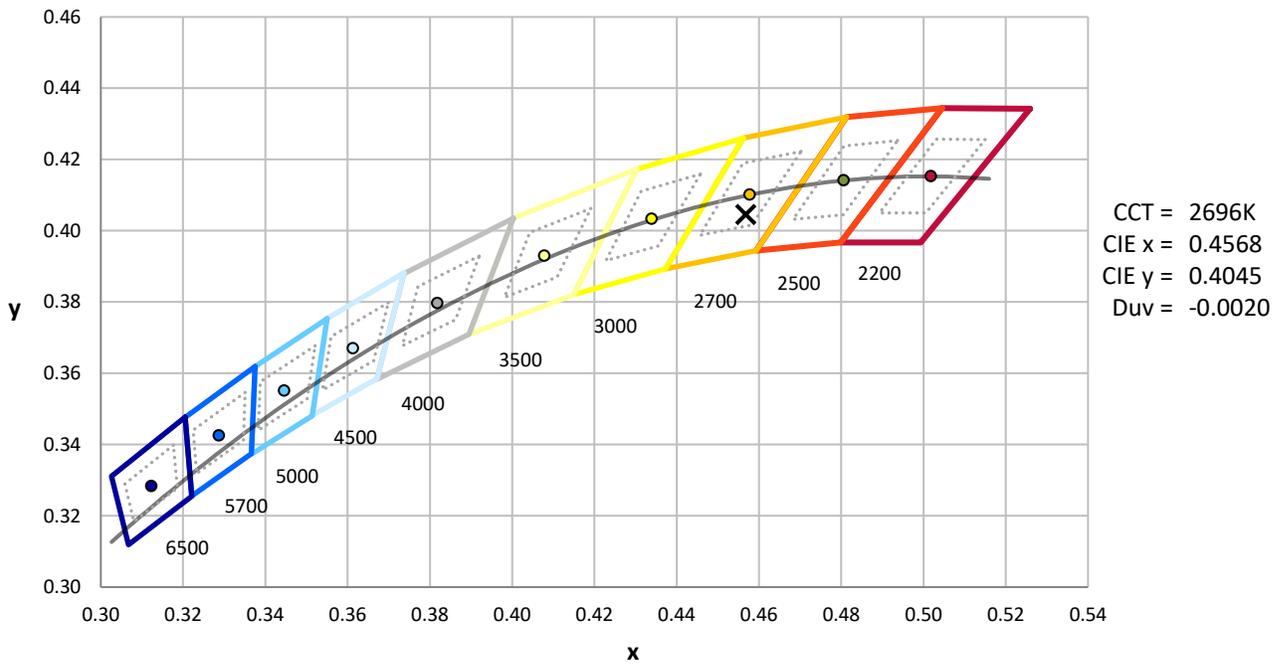
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

REPORT NUMBER: SP1-2511-597-2

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2511-597-2

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	70	NR	620	281	NR	750	7	NR	880	0	NR
365	0	NR	495	88	NR	625	288	NR	755	6	NR	885	0	NR
370	0	NR	500	106	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	121	NR	635	581	NR	765	5	NR	895	0	NR
380	0	NR	510	133	NR	640	184	NR	770	4	NR	900	0	NR
385	0	NR	515	143	NR	645	191	NR	775	3	NR	905	0	NR
390	0	NR	520	149	NR	650	161	NR	780	3	NR	910	0	NR
395	1	NR	525	155	NR	655	136	NR	785	2	NR	915	0	NR
400	1	NR	530	158	NR	660	116	NR	790	2	NR	920	0	NR
405	2	NR	535	163	NR	665	99	NR	795	2	NR	925	0	NR
410	3	NR	540	168	NR	670	92	NR	800	2	NR	930	0	NR
415	6	NR	545	173	NR	675	75	NR	805	1	NR	935	0	NR
420	11	NR	550	179	NR	680	65	NR	810	1	NR	940	0	NR
425	19	NR	555	187	NR	685	56	NR	815	1	NR	945	0	NR
430	32	NR	560	195	NR	690	48	NR	820	1	NR	950	0	NR
435	54	NR	565	203	NR	695	41	NR	825	1	NR	955	0	NR
440	90	NR	570	211	NR	700	35	NR	830	1	NR	960	0	NR
445	134	NR	575	219	NR	705	30	NR	835	1	NR	965	0	NR
450	128	NR	580	228	NR	710	26	NR	840	1	NR	970	0	NR
455	83	NR	585	237	NR	715	22	NR	845	0	NR	975	0	NR
460	67	NR	590	246	NR	720	19	NR	850	0	NR	980	0	NR
465	55	NR	595	251	NR	725	16	NR	855	0	NR	985	0	NR
470	42	NR	600	259	NR	730	13	NR	860	0	NR	990	0	NR
475	41	NR	605	266	NR	735	11	NR	865	0	NR	995	0	NR
480	46	NR	610	299	NR	740	10	NR	870	0	NR	1000	0	NR
485	55	NR	615	317	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2511-597-2

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.29

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	70	NR	620	281	NR	750	7	NR	880	0	NR
365	0	NR	495	88	NR	625	288	NR	755	6	NR	885	0	NR
370	0	NR	500	106	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	121	NR	635	581	NR	765	5	NR	895	0	NR
380	0	NR	510	133	NR	640	184	NR	770	4	NR	900	0	NR
385	0	NR	515	143	NR	645	191	NR	775	3	NR	905	0	NR
390	0	NR	520	149	NR	650	161	NR	780	3	NR	910	0	NR
395	1	NR	525	155	NR	655	136	NR	785	2	NR	915	0	NR
400	1	NR	530	158	NR	660	116	NR	790	2	NR	920	0	NR
405	2	NR	535	163	NR	665	99	NR	795	2	NR	925	0	NR
410	3	NR	540	168	NR	670	92	NR	800	2	NR	930	0	NR
415	6	NR	545	173	NR	675	75	NR	805	1	NR	935	0	NR
420	11	NR	550	179	NR	680	65	NR	810	1	NR	940	0	NR
425	19	NR	555	187	NR	685	56	NR	815	1	NR	945	0	NR
430	32	NR	560	195	NR	690	48	NR	820	1	NR	950	0	NR
435	54	NR	565	203	NR	695	41	NR	825	1	NR	955	0	NR
440	90	NR	570	211	NR	700	35	NR	830	1	NR	960	0	NR
445	134	NR	575	219	NR	705	30	NR	835	1	NR	965	0	NR
450	128	NR	580	228	NR	710	26	NR	840	1	NR	970	0	NR
455	83	NR	585	237	NR	715	22	NR	845	0	NR	975	0	NR
460	67	NR	590	246	NR	720	19	NR	850	0	NR	980	0	NR
465	55	NR	595	251	NR	725	16	NR	855	0	NR	985	0	NR
470	42	NR	600	259	NR	730	13	NR	860	0	NR	990	0	NR
475	41	NR	605	266	NR	735	11	NR	865	0	NR	995	0	NR
480	46	NR	610	299	NR	740	10	NR	870	0	NR	1000	0	NR
485	55	NR	615	317	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2511-597-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.45

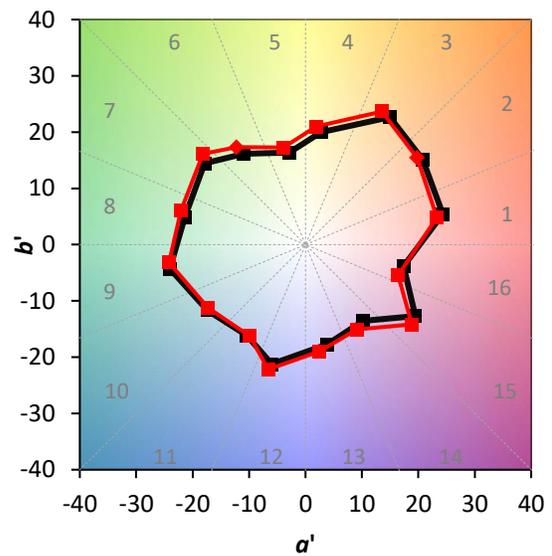
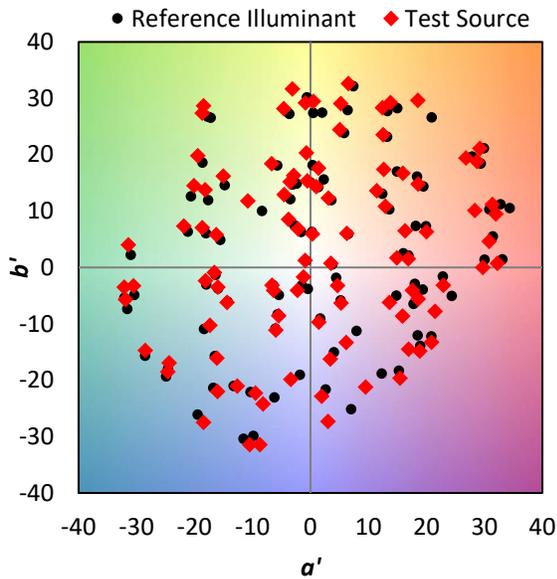
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	70	NR	620	281	NR	750	7	NR	880	0	NR
365	0	NR	495	88	NR	625	288	NR	755	6	NR	885	0	NR
370	0	NR	500	106	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	121	NR	635	581	NR	765	5	NR	895	0	NR
380	0	NR	510	133	NR	640	184	NR	770	4	NR	900	0	NR
385	0	NR	515	143	NR	645	191	NR	775	3	NR	905	0	NR
390	0	NR	520	149	NR	650	161	NR	780	3	NR	910	0	NR
395	1	NR	525	155	NR	655	136	NR	785	2	NR	915	0	NR
400	1	NR	530	158	NR	660	116	NR	790	2	NR	920	0	NR
405	2	NR	535	163	NR	665	99	NR	795	2	NR	925	0	NR
410	3	NR	540	168	NR	670	92	NR	800	2	NR	930	0	NR
415	6	NR	545	173	NR	675	75	NR	805	1	NR	935	0	NR
420	11	NR	550	179	NR	680	65	NR	810	1	NR	940	0	NR
425	19	NR	555	187	NR	685	56	NR	815	1	NR	945	0	NR
430	32	NR	560	195	NR	690	48	NR	820	1	NR	950	0	NR
435	54	NR	565	203	NR	695	41	NR	825	1	NR	955	0	NR
440	90	NR	570	211	NR	700	35	NR	830	1	NR	960	0	NR
445	134	NR	575	219	NR	705	30	NR	835	1	NR	965	0	NR
450	128	NR	580	228	NR	710	26	NR	840	1	NR	970	0	NR
455	83	NR	585	237	NR	715	22	NR	845	0	NR	975	0	NR
460	67	NR	590	246	NR	720	19	NR	850	0	NR	980	0	NR
465	55	NR	595	251	NR	725	16	NR	855	0	NR	985	0	NR
470	42	NR	600	259	NR	730	13	NR	860	0	NR	990	0	NR
475	41	NR	605	266	NR	735	11	NR	865	0	NR	995	0	NR
480	46	NR	610	299	NR	740	10	NR	870	0	NR	1000	0	NR
485	55	NR	615	317	NR	745	8	NR	875	0	NR			

Summary

$R_f = 90.1$
 $R_g = 103.5$
 $CIE R_a = 94.4$
 $R_9 = 61.8$



Color Vector Graphics

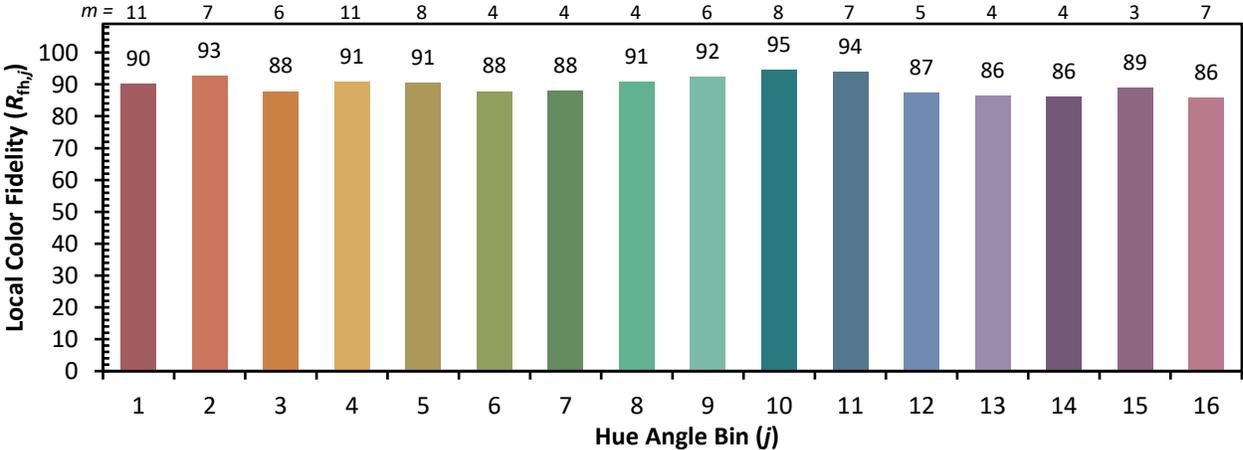


Individual Sample Fidelity Index ($R_{f,i}$)

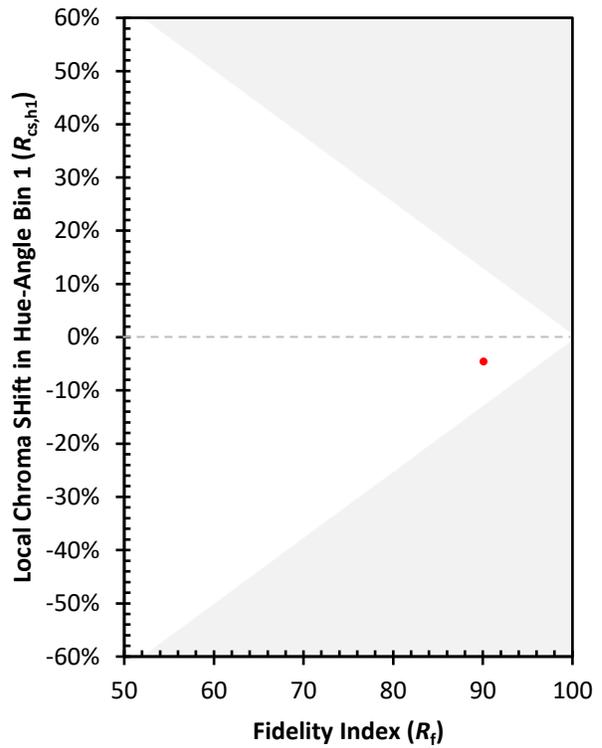
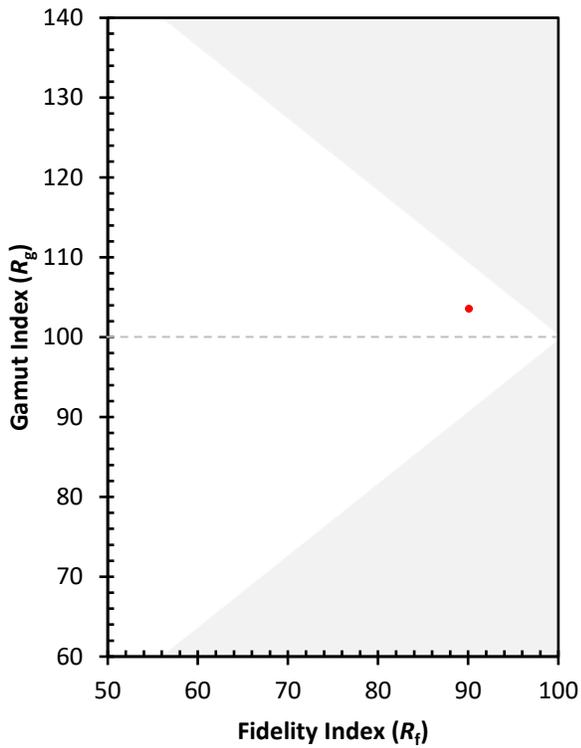
CES01 = 86	CES26 = 89	CES51 = 92	CES76 = 90
CES02 = 64	CES27 = 97	CES52 = 92	CES77 = 84
CES03 = 32	CES28 = 96	CES53 = 88	CES78 = 87
CES04 = 71	CES29 = 83	CES54 = 97	CES79 = 88
CES05 = 51	CES30 = 85	CES55 = 95	CES80 = 91
CES06 = 51	CES31 = 85	CES56 = 89	CES81 = 69
CES07 = 44	CES32 = 80	CES57 = 87	CES82 = 95
CES08 = 43	CES33 = 84	CES58 = 88	CES83 = 91
CES09 = 29	CES34 = 91	CES59 = 98	CES84 = 97
CES10 = 77	CES35 = 96	CES60 = 99	CES85 = 81
CES11 = 59	CES36 = 98	CES61 = 99	CES86 = 75
CES12 = 66	CES37 = 93	CES62 = 91	CES87 = 91
CES13 = 45	CES38 = 89	CES63 = 90	CES88 = 94
CES14 = 74	CES39 = 95	CES64 = 93	CES89 = 80
CES15 = 72	CES40 = 91	CES65 = 92	CES90 = 93
CES16 = 48	CES41 = 89	CES66 = 92	CES91 = 91
CES17 = 50	CES42 = 89	CES67 = 93	CES92 = 80
CES18 = 57	CES43 = 85	CES68 = 97	CES93 = 88
CES19 = 72	CES44 = 98	CES69 = 98	CES94 = 72
CES20 = 68	CES45 = 90	CES70 = 93	CES95 = 88
CES21 = 87	CES46 = 89	CES71 = 95	CES96 = 92
CES22 = 79	CES47 = 79	CES72 = 98	CES97 = 90
CES23 = 92	CES48 = 87	CES73 = 89	CES98 = 91
CES24 = 91	CES49 = 87	CES74 = 88	CES99 = 92
CES25 = 72	CES50 = 92	CES75 = 94	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)