

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: P1357359

Luminaire Tested: 6ASL4-30VHE-3-35-UNV

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357359
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: 6ASL4-30VHE-3-35-UNV
Description: 6FT 3000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 3500K LEDS 3 ROW
Light Source: -
Ballast/Driver: -

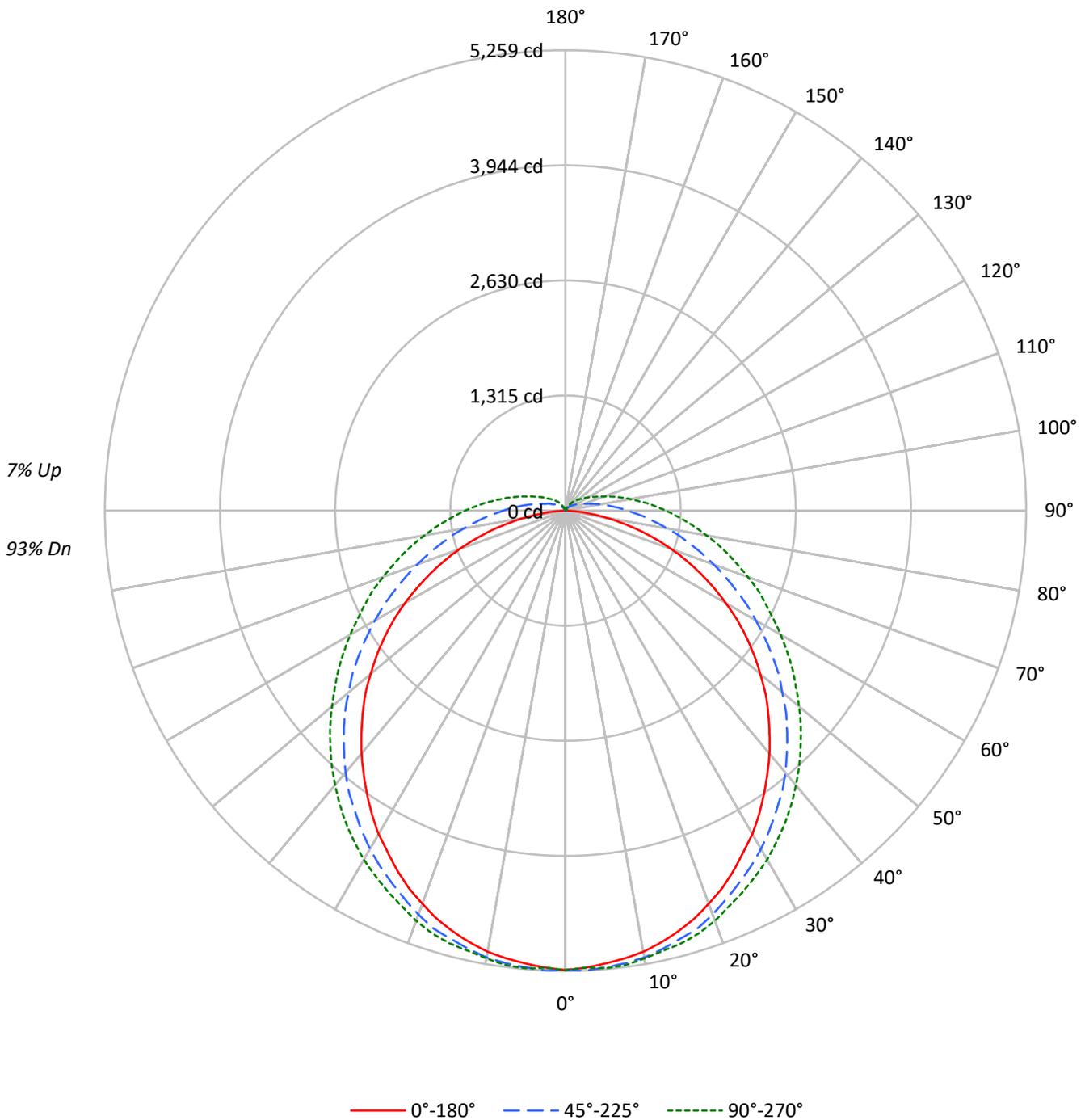
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17844.0 lumens
Efficiency: N/A
Efficacy: 113.1 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): 157.8
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: P1357359
CATALOG NUMBER: 6ASL4-30VHE-3-35-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P1357359
 CATALOG NUMBER: 6ASL4-30VHE-3-35-UNV

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°	28344	28344	28344
5°	28114	27825	27695
10°	27977	27299	26995
15°	27690	26642	26401
20°	27294	26010	25731
25°	26830	25215	24970
30°	26340	24526	24325
35°	25728	23745	23609
40°	25171	23030	22854
45°	24573	22164	22096
50°	23889	21232	21308
55°	23156	20344	20600
60°	22194	19306	19881
65°	20968	18309	19285
70°	19402	17324	18818
75°	17103	16431	18497
80°	13589	15777	18361
85°	8459	15674	18634

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24573 cd/sqm



TEST NUMBER: P1357359
 CATALOG NUMBER: 6ASL4-30VHE-3-35-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.7	2.8
10°-20°	1428.9	8.0
20°-30°	2160.4	12.1
30°-40°	2615.9	14.7
40°-50°	2747.4	15.4
50°-60°	2563.3	14.4
60°-70°	2118.4	11.9
70°-80°	1525.3	8.5
80°-90°	947.8	5.3
90°-100°	555.4	3.1
100°-110°	317.7	1.8
110°-120°	179.4	1.0
120°-130°	103.2	0.6
130°-140°	55.6	0.3
140°-150°	23.4	0.1
150°-160°	4.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4086.9	22.9
0°-40°	6702.8	37.6
0°-60°	12013.5	67.3
0°-90°	16605.0	93.1
90°-120°	1052.5	5.9
90°-150°	1234.7	6.9
90°-180°	1239.0	6.9
0°-180°	17844.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5248	5248	5248	5248	5248	
5°	5194	5237	5237	5237	5248	494
15°	4975	5041	5063	5095	5117	1403
25°	4539	4615	4692	4757	4801	2091
35°	3950	4059	4190	4310	4364	2472
45°	3273	3393	3579	3732	3797	2525
55°	2520	2662	2880	3088	3164	2252
65°	1702	1866	2150	2422	2520	1684
75°	873	1091	1473	1789	1920	923
85°	164	491	927	1255	1375	200
90°	0	295	709	1015	1146	7
95°	0	186	535	818	938	0
105°	0	66	295	513	600	0
115°	0	33	175	316	371	0
125°	0	22	109	207	240	0
135°	0	0	66	131	164	0
145°	0	0	33	76	87	0
155°	0	0	0	22	33	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P1357359

CATALOG NUMBER: 6ASL4-30VHE-3-35-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5248.2	5248.2	5248.2	5248.2	5248.2
2.5°	5226.3	5259.1	5259.1	5226.3	5226.3
5°	5193.6	5237.2	5237.2	5237.2	5248.2
7.5°	5160.9	5215.4	5215.4	5215.4	5237.2
10°	5117.2	5171.8	5182.7	5182.7	5193.6
12.5°	5051.8	5117.2	5128.1	5139.1	5150.0
15°	4975.4	5040.9	5062.7	5095.4	5117.2
17.5°	4888.1	4964.5	5008.1	5040.9	5062.7
20°	4779.0	4855.4	4909.9	4953.6	4986.3
22.5°	4669.9	4735.3	4800.8	4855.4	4888.1
25°	4538.9	4615.3	4691.7	4757.2	4800.8
27.5°	4397.1	4484.4	4582.6	4659.0	4702.6
30°	4266.2	4353.5	4462.6	4560.8	4604.4
32.5°	4113.4	4211.6	4331.6	4429.8	4484.4
35°	3949.8	4058.9	4189.8	4309.8	4364.4
37.5°	3786.1	3895.2	4058.9	4178.9	4233.4
40°	3622.4	3731.5	3906.1	4037.0	4091.6
42.5°	3447.9	3557.0	3742.5	3884.3	3949.8
45°	3273.3	3393.3	3578.8	3731.5	3797.0
47.5°	3098.7	3218.7	3415.1	3578.8	3644.3
50°	2902.3	3033.2	3229.6	3415.1	3480.6
52.5°	2716.8	2847.8	3066.0	3251.5	3316.9
55°	2520.4	2662.3	2880.5	3087.8	3164.2
57.5°	2324.0	2465.9	2695.0	2913.2	3000.5
60°	2116.7	2269.5	2509.5	2738.6	2836.8
62.5°	1909.4	2073.1	2334.9	2575.0	2673.2
65°	1702.1	1865.8	2149.5	2422.2	2520.4
67.5°	1494.8	1669.4	1974.9	2258.6	2378.6
70°	1287.5	1473.0	1800.3	2094.9	2214.9
72.5°	1080.2	1276.6	1636.6	1942.1	2062.2
75°	872.9	1091.1	1473.0	1789.4	1920.3
77.5°	665.6	916.5	1331.1	1647.6	1778.5
80°	480.1	763.8	1178.4	1505.7	1636.6
82.5°	305.5	611.0	1047.4	1374.8	1505.7
85°	163.7	491.0	927.4	1254.8	1374.8
87.5°	54.6	381.9	807.4	1134.7	1254.8
90°	0.0	294.6	709.2	1014.7	1145.6
92.5°	0.0	229.1	621.9	916.5	1036.5
95°	0.0	185.5	534.6	818.3	938.3
97.5°	0.0	152.8	469.2	731.0	840.1
100°	0.0	120.0	403.7	654.7	752.9
102.5°	0.0	98.2	349.1	578.3	676.5
105°	0.0	65.5	294.6	512.8	600.1
107.5°	0.0	54.6	251.0	458.3	534.6
110°	0.0	43.6	229.1	392.8	469.2



TEST NUMBER: P1357359
 CATALOG NUMBER: 6ASL4-30VHE-3-35-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	32.7	207.3	349.1	425.5
115°	0.0	32.7	174.6	316.4	371.0
117.5°	0.0	32.7	152.8	283.7	338.2
120°	0.0	21.8	141.8	251.0	305.5
122.5°	0.0	21.8	120.0	229.1	272.8
125°	0.0	21.8	109.1	207.3	240.0
127.5°	0.0	10.9	98.2	185.5	218.2
130°	0.0	10.9	87.3	163.7	196.4
132.5°	0.0	10.9	76.4	152.8	185.5
135°	0.0	0.0	65.5	130.9	163.7
137.5°	0.0	0.0	54.6	120.0	141.8
140°	0.0	0.0	43.6	98.2	130.9
142.5°	0.0	0.0	32.7	87.3	109.1
145°	0.0	0.0	32.7	76.4	87.3
147.5°	0.0	0.0	21.8	54.6	76.4
150°	0.0	0.0	10.9	43.6	54.6
152.5°	0.0	0.0	0.0	32.7	43.6
155°	0.0	0.0	0.0	21.8	32.7
157.5°	0.0	0.0	0.0	0.0	10.9
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



TEST NUMBER: P1357359
 CATALOG NUMBER: 6ASL4-30VHE-3-35-UNV

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	20.96	22.50	21.43	22.96	23.44	23.02	24.56	23.49	25.01	25.50
	3H	22.46	23.86	22.94	24.33	24.85	25.49	26.90	25.97	27.36	27.89
	4H	22.94	24.27	23.44	24.75	25.29	26.70	28.03	27.20	28.51	29.05
	6H	23.21	24.45	23.73	24.95	25.50	27.97	29.21	28.49	29.71	30.26
	8H	23.27	24.45	23.79	24.97	25.53	28.63	29.82	29.16	30.34	30.90
	12H	23.28	24.42	23.81	24.93	25.52	29.37	30.51	29.90	31.02	31.61
4H	2H	21.84	23.18	22.35	23.66	24.20	23.45	24.78	23.95	25.26	25.80
	3H	23.58	24.71	24.10	25.24	25.80	26.15	27.29	26.67	27.81	28.37
	4H	24.18	25.22	24.72	25.76	26.35	27.53	28.57	28.07	29.10	29.70
	6H	24.58	25.50	25.14	26.06	26.67	28.99	29.91	29.55	30.47	31.08
	8H	24.68	25.54	25.24	26.10	26.72	29.76	30.62	30.32	31.19	31.80
	12H	24.72	25.50	25.30	26.09	26.72	30.62	31.40	31.20	31.99	32.62
8H	4H	24.87	25.73	25.43	26.30	26.92	27.75	28.61	28.31	29.17	29.79
	6H	25.45	26.18	26.04	26.79	27.41	29.38	30.11	29.97	30.71	31.34
	8H	25.63	26.29	26.24	26.91	27.54	30.28	30.95	30.89	31.56	32.20
	12H	25.75	26.34	26.35	26.94	27.64	31.33	31.92	31.94	32.52	33.23
12H	4H	25.07	25.85	25.65	26.44	27.07	27.75	28.54	28.34	29.13	29.75
	6H	25.75	26.41	26.35	27.02	27.66	29.41	30.08	30.02	30.69	31.33
	8H	26.03	26.62	26.63	27.22	27.93	30.39	30.98	31.00	31.58	32.29

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	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

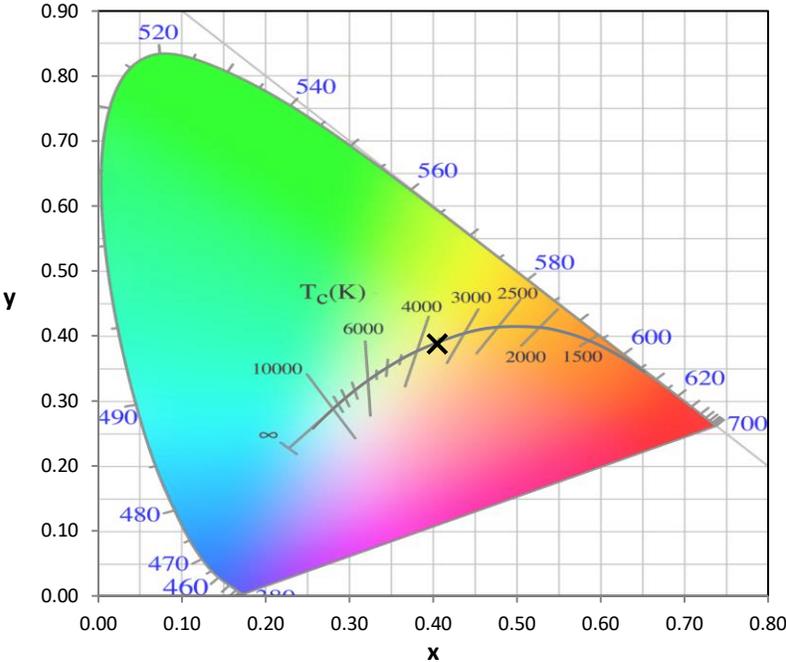
Stabilization Time: 31M
 Operation Time: 1H 31M
 Sphere Temperature (°C): 24.1

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

REPORT NUMBER: SP1-2511-597-1

CIE 1931 Chromaticity Diagram



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



CCT = 3487K
 CIE x = 0.4047
 CIE y = 0.3876
 Duv = -0.0012

Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2511-597-1

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			

REPORT NUMBER: SP1-2511-597-1

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			

REPORT NUMBER: SP1-2511-597-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.15

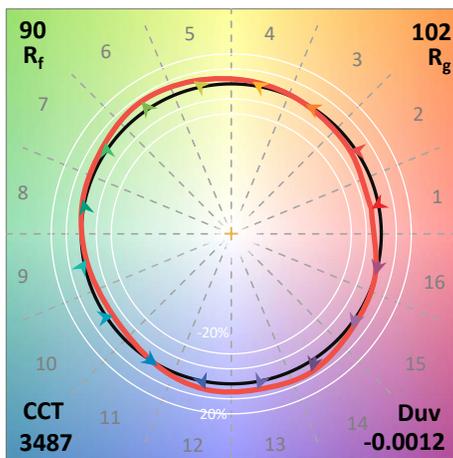
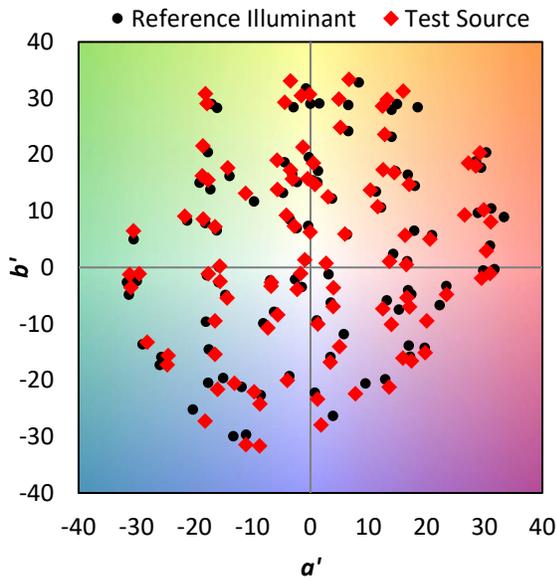
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	122	NR	620	322	NR	750	8	NR	880	0	NR
365	0	NR	495	152	NR	625	323	NR	755	7	NR	885	0	NR
370	0	NR	500	180	NR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

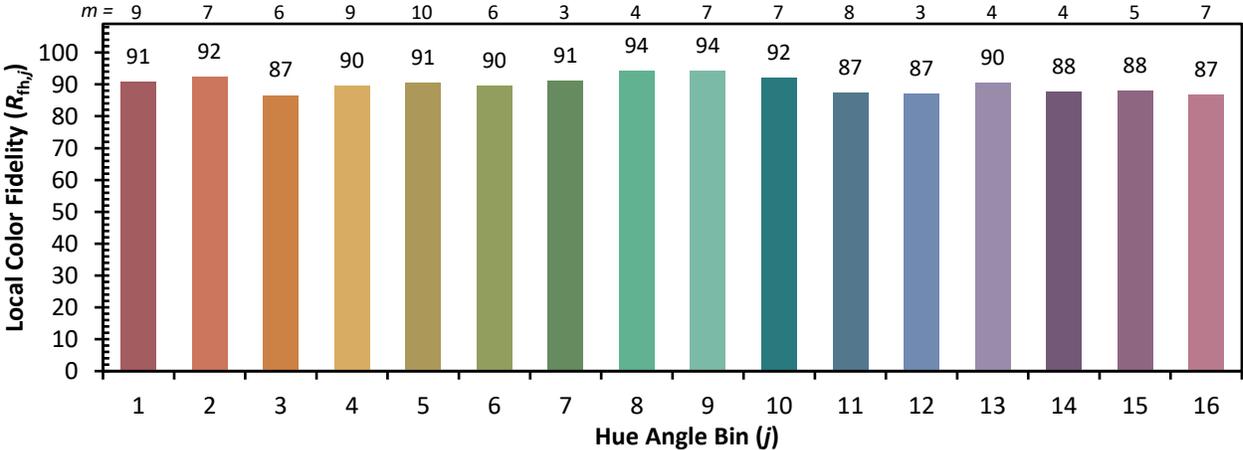
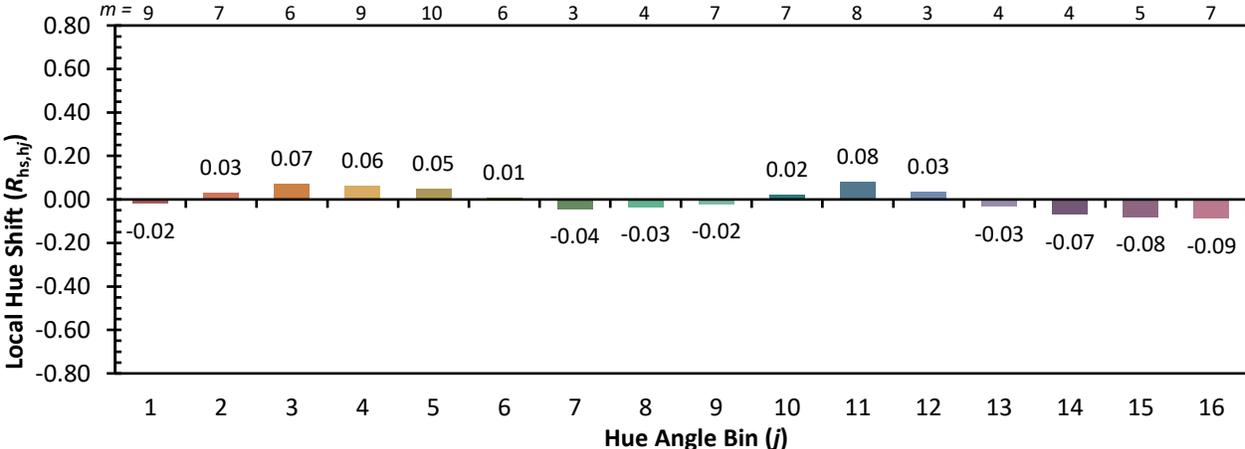
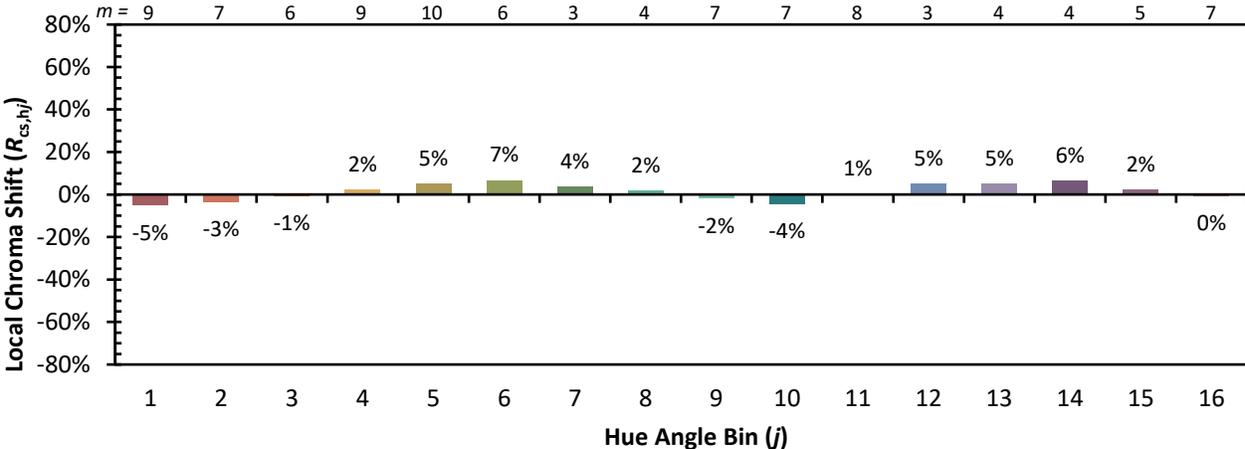


Individual Sample Fidelity Index ($R_{f,i}$)

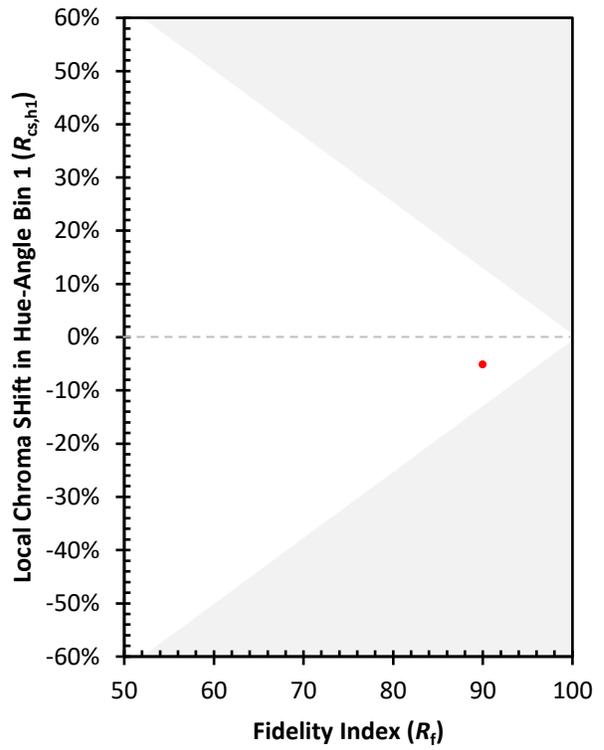
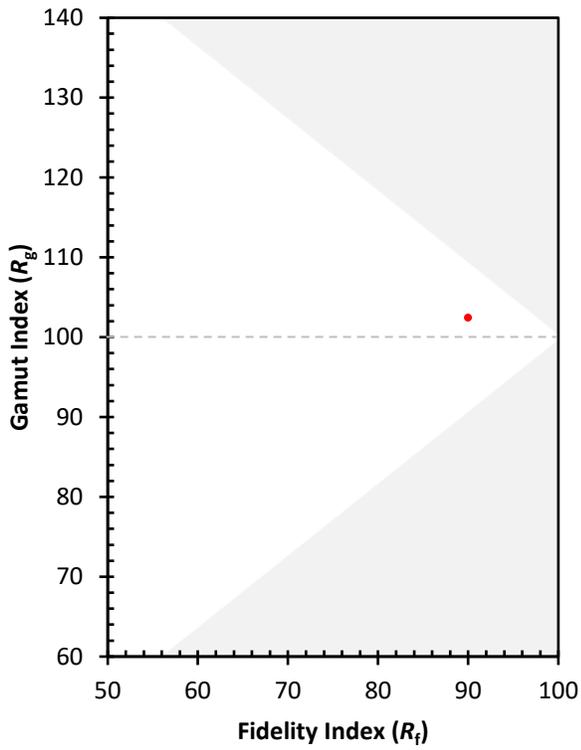
CES01 = 86	CES26 = 87	CES51 = 95	CES76 = 82
CES02 = 62	CES27 = 96	CES52 = 94	CES77 = 89
CES03 = 31	CES28 = 93	CES53 = 90	CES78 = 79
CES04 = 70	CES29 = 84	CES54 = 98	CES79 = 93
CES05 = 50	CES30 = 89	CES55 = 97	CES80 = 91
CES06 = 51	CES31 = 85	CES56 = 91	CES81 = 81
CES07 = 43	CES32 = 80	CES57 = 90	CES82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