

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: P1357335

Luminaire Tested: 6ASL4-20HE-2-65-UNV

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357335
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: 6ASL4-20HE-2-65-UNV
Description: 6FT 2000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 6500K LEDS 2 ROW
Light Source: -
Ballast/Driver: -

Summary

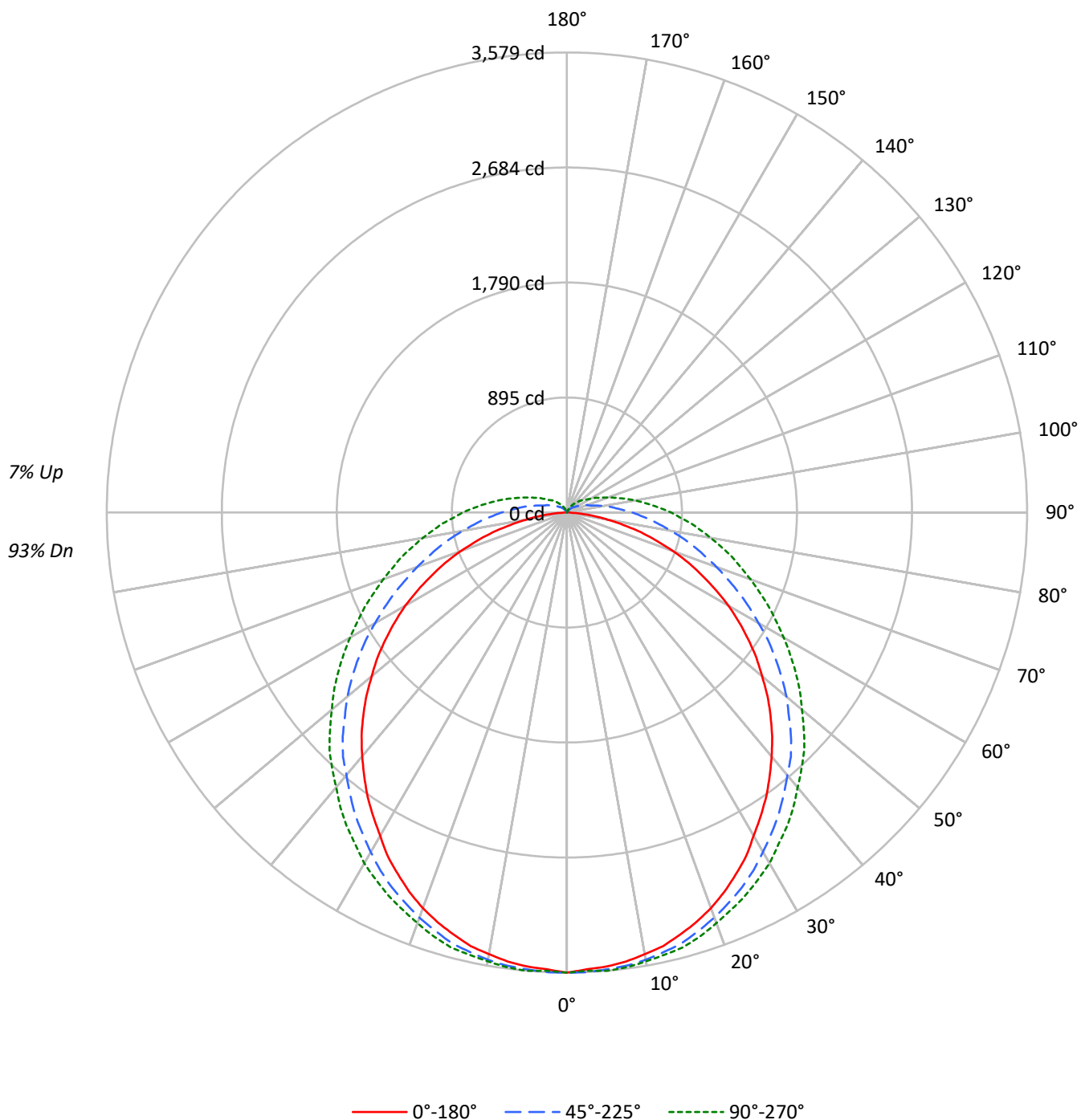
Lumens per Lamp: N/A
Luminaire Lumens: 12288.0 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 5.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 107.4
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

TEST NUMBER: P1357335

CATALOG NUMBER: 6ASL4-20HE-2-65-UNV

Luminous Intensity Polar Plot



TEST NUMBER: P1357335

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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°	19331	19331	19331
5°	19193	18957	18889
10°	19077	18617	18429
15°	18918	18243	18061
20°	18707	17769	17542
25°	18363	17301	17095
30°	17930	16764	16650
35°	17596	16266	16135
40°	17207	15728	15592
45°	16815	15266	15196
50°	16306	14652	14608
55°	15822	13991	14143
60°	15224	13248	13647
65°	14283	12560	13263
70°	13231	11914	12910
75°	11689	11426	12794
80°	9239	11001	12753
85°	5819	11033	13120

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 16815 cd/sqm

TEST NUMBER: P1357335

CATALOG NUMBER: 6ASL4-20HE-2-65-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.5	2.8
10°-20°	975.7	7.9
20°-30°	1478.5	12.0
30°-40°	1788.2	14.6
40°-50°	1885.2	15.3
50°-60°	1759.5	14.3
60°-70°	1452.7	11.8
70°-80°	1053.8	8.6
80°-90°	665.8	5.4
90°-100°	397.4	3.2
100°-110°	227.8	1.9
110°-120°	129.4	1.1
120°-130°	73.8	0.6
130°-140°	40.0	0.3
140°-150°	17.5	0.1
150°-160°	3.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2793.7	22.7
0°-40°	4581.9	37.3
0°-60°	8226.6	66.9
0°-90°	11398.9	92.8
90°-120°	754.6	6.1
90°-150°	885.9	7.2
90°-180°	889.0	7.2
0°-180°	12288.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3579	3579	3579	3579	3579	
5°	3546	3579	3568	3568	3579	337
15°	3399	3444	3467	3478	3501	959
25°	3107	3152	3219	3264	3287	1431
35°	2701	2769	2870	2949	2983	1688
45°	2240	2330	2465	2566	2611	1727
55°	1722	1824	1981	2116	2172	1539
65°	1159	1283	1474	1655	1733	1151
75°	597	754	1024	1238	1328	627
85°	113	349	653	878	968	138
90°	0	214	506	720	810	5
95°	0	135	383	585	664	0
105°	0	45	214	371	428	0
115°	0	22	124	225	270	0
125°	0	11	79	146	169	0
135°	0	0	45	90	113	0
145°	0	0	22	56	68	0
155°	0	0	0	11	22	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

TEST NUMBER: P1357335

CATALOG NUMBER: 6ASL4-20HE-2-65-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3579.4	3579.4	3579.4	3579.4	3579.4
2.5°	3556.9	3590.6	3579.4	3568.1	3568.1
5°	3545.6	3579.4	3568.1	3568.1	3579.4
7.5°	3523.1	3556.9	3556.9	3556.9	3568.1
10°	3489.3	3534.3	3534.3	3534.3	3545.6
12.5°	3455.6	3489.3	3500.6	3511.8	3523.1
15°	3399.3	3444.3	3466.8	3478.1	3500.6
17.5°	3343.0	3376.8	3410.5	3444.3	3455.6
20°	3275.5	3320.5	3354.2	3388.0	3399.3
22.5°	3196.7	3241.7	3286.7	3320.5	3343.0
25°	3106.6	3151.6	3219.2	3264.2	3286.7
27.5°	3016.6	3061.6	3140.4	3196.7	3219.2
30°	2904.0	2971.6	3050.3	3117.9	3151.6
32.5°	2802.7	2870.2	2960.3	3039.1	3061.6
35°	2701.4	2768.9	2870.2	2949.0	2982.8
37.5°	2588.9	2667.6	2768.9	2859.0	2892.8
40°	2476.3	2555.1	2667.6	2768.9	2791.5
42.5°	2363.7	2442.5	2577.6	2667.6	2701.4
45°	2239.9	2330.0	2465.0	2566.3	2611.4
47.5°	2116.1	2206.2	2341.2	2453.8	2498.8
50°	1981.0	2082.3	2228.7	2341.2	2386.2
52.5°	1857.2	1958.5	2104.8	2228.7	2284.9
55°	1722.1	1823.5	1981.0	2116.1	2172.4
57.5°	1587.1	1688.4	1857.2	2003.5	2059.8
60°	1452.0	1553.3	1722.1	1891.0	1947.3
62.5°	1305.7	1418.2	1598.3	1767.2	1834.7
65°	1159.4	1283.2	1474.5	1654.6	1733.4
67.5°	1024.3	1148.1	1350.7	1553.3	1620.8
70°	878.0	1013.0	1238.1	1440.8	1519.5
72.5°	731.6	878.0	1125.6	1339.4	1418.2
75°	596.6	754.1	1024.3	1238.1	1328.2
77.5°	450.2	641.6	923.0	1148.1	1226.9
80°	326.4	529.0	821.7	1058.1	1136.8
82.5°	213.9	427.7	731.6	968.0	1046.8
85°	112.6	348.9	652.8	878.0	968.0
87.5°	33.8	270.1	574.0	799.2	878.0
90°	0.0	213.9	506.5	720.4	810.4
92.5°	0.0	168.8	439.0	652.8	731.6
95°	0.0	135.1	382.7	585.3	664.1
97.5°	0.0	112.6	337.7	529.0	596.6
100°	0.0	90.0	292.7	472.7	540.3
102.5°	0.0	67.5	247.6	416.5	484.0
105°	0.0	45.0	213.9	371.4	427.7
107.5°	0.0	33.8	180.1	326.4	382.7
110°	0.0	33.8	168.8	281.4	337.7



TEST NUMBER: P1357335

CATALOG NUMBER: 6ASL4-20HE-2-65-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	22.5	146.3	258.9	303.9
115°	0.0	22.5	123.8	225.1	270.1
117.5°	0.0	22.5	112.6	202.6	247.6
120°	0.0	22.5	101.3	180.1	213.9
122.5°	0.0	11.3	90.0	157.6	191.3
125°	0.0	11.3	78.8	146.3	168.8
127.5°	0.0	11.3	67.5	135.1	157.6
130°	0.0	11.3	67.5	123.8	146.3
132.5°	0.0	0.0	56.3	112.6	135.1
135°	0.0	0.0	45.0	90.0	112.6
137.5°	0.0	0.0	45.0	78.8	101.3
140°	0.0	0.0	33.8	78.8	90.0
142.5°	0.0	0.0	22.5	67.5	78.8
145°	0.0	0.0	22.5	56.3	67.5
147.5°	0.0	0.0	11.3	45.0	56.3
150°	0.0	0.0	11.3	33.8	45.0
152.5°	0.0	0.0	0.0	22.5	33.8
155°	0.0	0.0	0.0	11.3	22.5
157.5°	0.0	0.0	0.0	0.0	11.3
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: P1357335

CATALOG NUMBER: 6ASL4-20HE-2-65-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	19.61	21.15	20.09	21.61	22.10	21.70	23.24	22.17	23.70	24.19
	3H	21.11	22.51	21.60	22.98	23.52	24.16	25.56	24.65	26.03	26.57
	4H	21.59	22.92	22.10	23.41	23.95	25.38	26.71	25.89	27.20	27.74
	6H	21.87	23.11	22.39	23.61	24.17	26.67	27.91	27.19	28.41	28.97
	8H	21.92	23.11	22.45	23.63	24.20	27.35	28.53	27.88	29.06	29.62
	12H	21.94	23.07	22.48	23.59	24.19	28.10	29.24	28.64	29.76	30.35
4H	2H	20.50	21.83	21.00	22.31	22.86	22.13	23.46	22.64	23.94	24.49
	3H	22.24	23.37	22.76	23.90	24.47	24.82	25.95	25.34	26.49	27.05
	4H	22.85	23.88	23.39	24.43	25.02	26.22	27.25	26.76	27.79	28.39
	6H	23.25	24.16	23.81	24.73	25.34	27.70	28.62	28.26	29.19	29.80
	8H	23.35	24.21	23.91	24.77	25.40	28.49	29.35	29.05	29.92	30.54
	12H	23.39	24.18	23.98	24.77	25.40	29.37	30.15	29.95	30.74	31.37
8H	4H	23.55	24.41	24.11	24.98	25.60	26.44	27.30	27.00	27.87	28.49
	6H	24.14	24.87	24.73	25.48	26.11	28.10	28.83	28.69	29.44	30.07
	8H	24.32	24.98	24.93	25.60	26.25	29.02	29.68	29.63	30.30	30.95
	12H	24.45	25.03	25.06	25.64	26.35	30.09	30.68	30.70	31.29	32.00
12H	4H	23.75	24.54	24.34	25.13	25.76	26.45	27.23	27.03	27.82	28.45
	6H	24.44	25.11	25.05	25.72	26.37	28.14	28.80	28.74	29.42	30.06
	8H	24.73	25.32	25.34	25.93	26.64	29.13	29.72	29.74	30.33	31.04

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

Report Prepared for

Cooper Lighting Solutions

Fail-Safe

Report Number: SP1-2511-597-6

Test Date: 11/18/2025

Luminaire Tested: 4ASL-2-65-UNV-OPL-1_600mA

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

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2511-597-6
 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-2-65-UNV-OPL-1_600mA**
 Description: 2foot 4ASL LED LUMINAIRE WITH OPL LENS AND 6500K LEDS with 1 rows at 600mA

Spectral Parameters

CCT (K): 6972
 CIE u' : 0.1979
 CIE v' : 0.4612
 Duv: 0.0005
 CIE x: 0.3066
 CIE y: 0.3177
 CIE z: 0.3758
 Peak Wavelength (nm): 455
 Dominant Wavelength (nm): 483
 Purity: 10.33335
 R_f: 88.2
 R_g: 97.1

CRI (Ra): 94.3
 R1: 96.1
 R2: 98.8
 R3: 96.4
 R4: 92.8
 R5: 92.9
 R6: 92.2
 R7: 93.5
 R8: 91.4
 R9: 82.6
 R10: 95.4
 R11: 95.2
 R12: 63.5
 R13: 99.3
 R14: 98.1
 R15: 93.7



Test Conditions

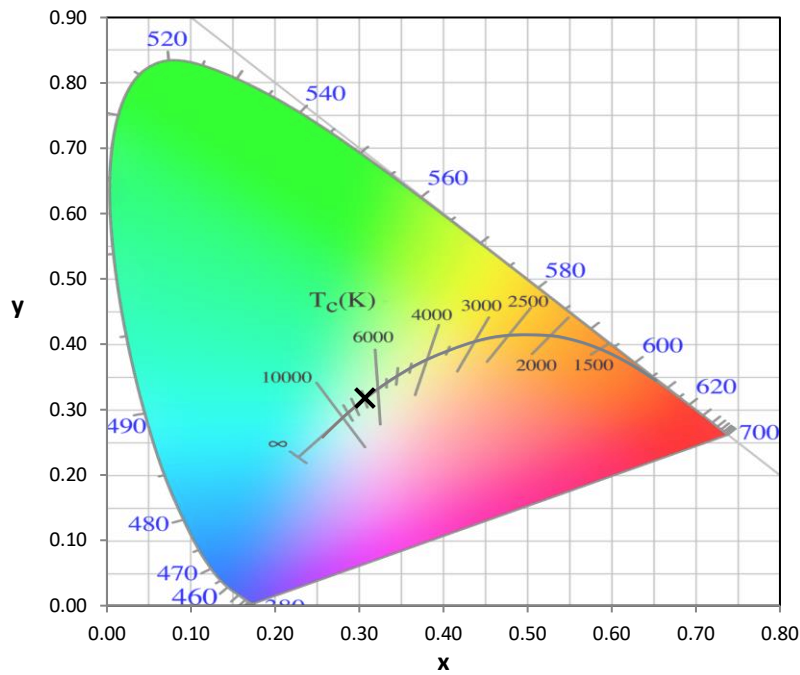
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.1

REPORT NUMBER: SP1-2511-597-6

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: SP1-2511-597-6

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 6500K 7-step quadrangle

REPORT NUMBER: SP1-2511-597-6

Photopic Flux vs. Wavelength

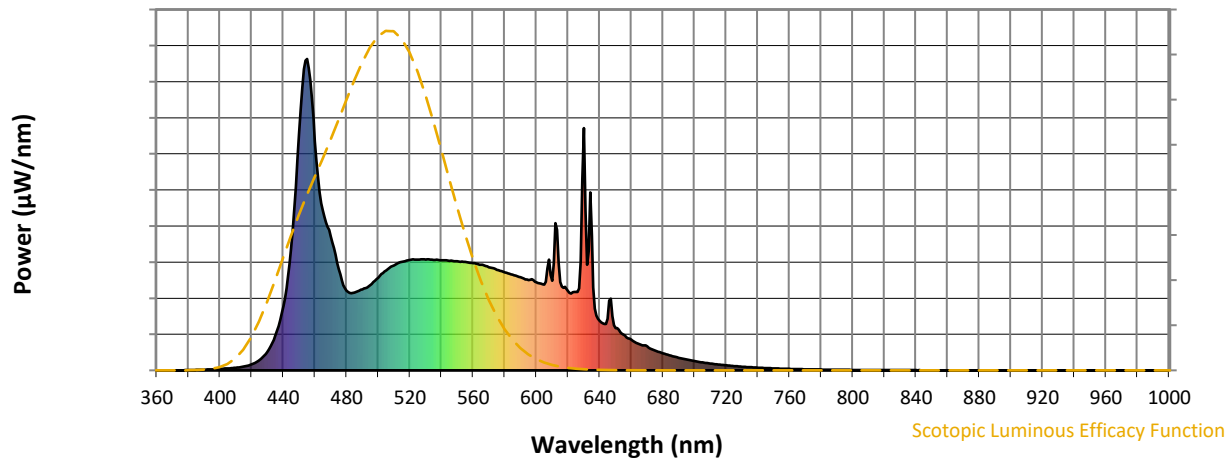


Photopic Lumens: NR

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	260	NR	620	255	NR	750	6	NR	880	0	NR
365	0	NR	495	274	NR	625	252	NR	755	6	NR	885	0	NR
370	0	NR	500	297	NR	630	778	NR	760	5	NR	890	0	NR
375	0	NR	505	320	NR	635	431	NR	765	4	NR	895	0	NR
380	1	NR	510	337	NR	640	160	NR	770	4	NR	900	0	NR
385	2	NR	515	349	NR	645	165	NR	775	3	NR	905	0	NR
390	2	NR	520	354	NR	650	135	NR	780	3	NR	910	0	NR
395	3	NR	525	356	NR	655	115	NR	785	2	NR	915	0	NR
400	5	NR	530	356	NR	660	99	NR	790	2	NR	920	0	NR
405	6	NR	535	355	NR	665	84	NR	795	2	NR	925	0	NR
410	8	NR	540	354	NR	670	77	NR	800	2	NR	930	0	NR
415	12	NR	545	351	NR	675	64	NR	805	1	NR	935	0	NR
420	19	NR	550	350	NR	680	55	NR	810	1	NR	940	0	NR
425	33	NR	555	348	NR	685	47	NR	815	1	NR	945	0	NR
430	60	NR	560	344	NR	690	41	NR	820	1	NR	950	0	NR
435	113	NR	565	339	NR	695	35	NR	825	1	NR	955	0	NR
440	206	NR	570	331	NR	700	30	NR	830	1	NR	960	0	NR
445	392	NR	575	323	NR	705	26	NR	835	1	NR	965	0	NR
450	764	NR	580	315	NR	710	22	NR	840	1	NR	970	0	NR
455	1000	NR	585	307	NR	715	19	NR	845	0	NR	975	0	NR
460	736	NR	590	299	NR	720	16	NR	850	0	NR	980	0	NR
465	513	NR	595	290	NR	725	14	NR	855	0	NR	985	0	NR
470	430	NR	600	282	NR	730	12	NR	860	0	NR	990	0	NR
475	325	NR	605	276	NR	735	10	NR	865	0	NR	995	0	NR
480	256	NR	610	287	NR	740	9	NR	870	0	NR	1000	0	NR
485	250	NR	615	284	NR	745	7	NR	875	0	NR			

REPORT NUMBER: SP1-2511-597-6

Scotopic Flux vs. Wavelength



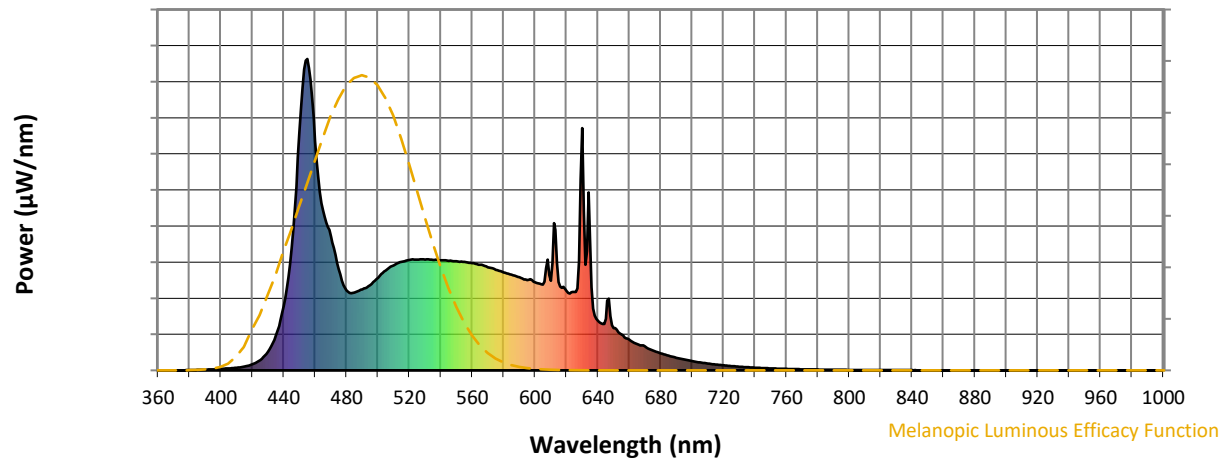
Scotopic Lumens: NR

S/P: 2.48

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	260	NR	620	255	NR	750	6	NR	880	0	NR
365	0	NR	495	274	NR	625	252	NR	755	6	NR	885	0	NR
370	0	NR	500	297	NR	630	778	NR	760	5	NR	890	0	NR
375	0	NR	505	320	NR	635	431	NR	765	4	NR	895	0	NR
380	1	NR	510	337	NR	640	160	NR	770	4	NR	900	0	NR
385	2	NR	515	349	NR	645	165	NR	775	3	NR	905	0	NR
390	2	NR	520	354	NR	650	135	NR	780	3	NR	910	0	NR
395	3	NR	525	356	NR	655	115	NR	785	2	NR	915	0	NR
400	5	NR	530	356	NR	660	99	NR	790	2	NR	920	0	NR
405	6	NR	535	355	NR	665	84	NR	795	2	NR	925	0	NR
410	8	NR	540	354	NR	670	77	NR	800	2	NR	930	0	NR
415	12	NR	545	351	NR	675	64	NR	805	1	NR	935	0	NR
420	19	NR	550	350	NR	680	55	NR	810	1	NR	940	0	NR
425	33	NR	555	348	NR	685	47	NR	815	1	NR	945	0	NR
430	60	NR	560	344	NR	690	41	NR	820	1	NR	950	0	NR
435	113	NR	565	339	NR	695	35	NR	825	1	NR	955	0	NR
440	206	NR	570	331	NR	700	30	NR	830	1	NR	960	0	NR
445	392	NR	575	323	NR	705	26	NR	835	1	NR	965	0	NR
450	764	NR	580	315	NR	710	22	NR	840	1	NR	970	0	NR
455	1000	NR	585	307	NR	715	19	NR	845	0	NR	975	0	NR
460	736	NR	590	299	NR	720	16	NR	850	0	NR	980	0	NR
465	513	NR	595	290	NR	725	14	NR	855	0	NR	985	0	NR
470	430	NR	600	282	NR	730	12	NR	860	0	NR	990	0	NR
475	325	NR	605	276	NR	735	10	NR	865	0	NR	995	0	NR
480	256	NR	610	287	NR	740	9	NR	870	0	NR	1000	0	NR
485	250	NR	615	284	NR	745	7	NR	875	0	NR			

REPORT NUMBER: SP1-2511-597-6

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 5.67

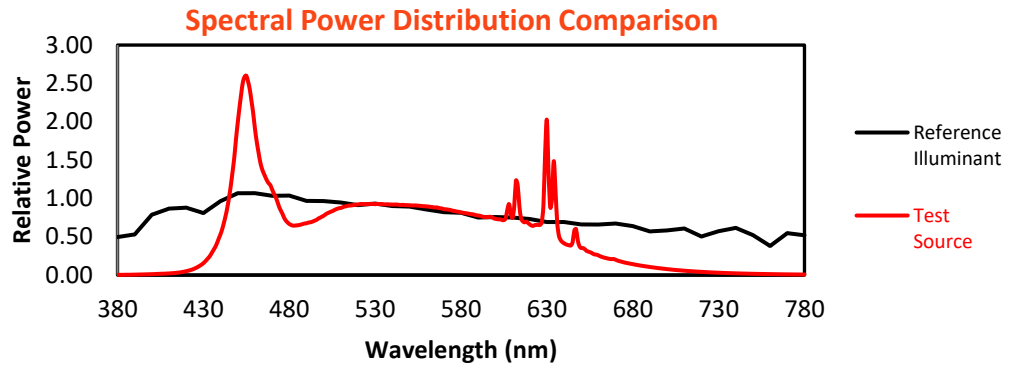
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	260	NR	620	255	NR	750	6	NR	880	0	NR
365	0	NR	495	274	NR	625	252	NR	755	6	NR	885	0	NR
370	0	NR	500	297	NR	630	778	NR	760	5	NR	890	0	NR
375	0	NR	505	320	NR	635	431	NR	765	4	NR	895	0	NR
380	1	NR	510	337	NR	640	160	NR	770	4	NR	900	0	NR
385	2	NR	515	349	NR	645	165	NR	775	3	NR	905	0	NR
390	2	NR	520	354	NR	650	135	NR	780	3	NR	910	0	NR
395	3	NR	525	356	NR	655	115	NR	785	2	NR	915	0	NR
400	5	NR	530	356	NR	660	99	NR	790	2	NR	920	0	NR
405	6	NR	535	355	NR	665	84	NR	795	2	NR	925	0	NR
410	8	NR	540	354	NR	670	77	NR	800	2	NR	930	0	NR
415	12	NR	545	351	NR	675	64	NR	805	1	NR	935	0	NR
420	19	NR	550	350	NR	680	55	NR	810	1	NR	940	0	NR
425	33	NR	555	348	NR	685	47	NR	815	1	NR	945	0	NR
430	60	NR	560	344	NR	690	41	NR	820	1	NR	950	0	NR
435	113	NR	565	339	NR	695	35	NR	825	1	NR	955	0	NR
440	206	NR	570	331	NR	700	30	NR	830	1	NR	960	0	NR
445	392	NR	575	323	NR	705	26	NR	835	1	NR	965	0	NR
450	764	NR	580	315	NR	710	22	NR	840	1	NR	970	0	NR
455	1000	NR	585	307	NR	715	19	NR	845	0	NR	975	0	NR
460	736	NR	590	299	NR	720	16	NR	850	0	NR	980	0	NR
465	513	NR	595	290	NR	725	14	NR	855	0	NR	985	0	NR
470	430	NR	600	282	NR	730	12	NR	860	0	NR	990	0	NR
475	325	NR	605	276	NR	735	10	NR	865	0	NR	995	0	NR
480	256	NR	610	287	NR	740	9	NR	870	0	NR	1000	0	NR
485	250	NR	615	284	NR	745	7	NR	875	0	NR			

REPORT NUMBER: SP1-2511-597-6

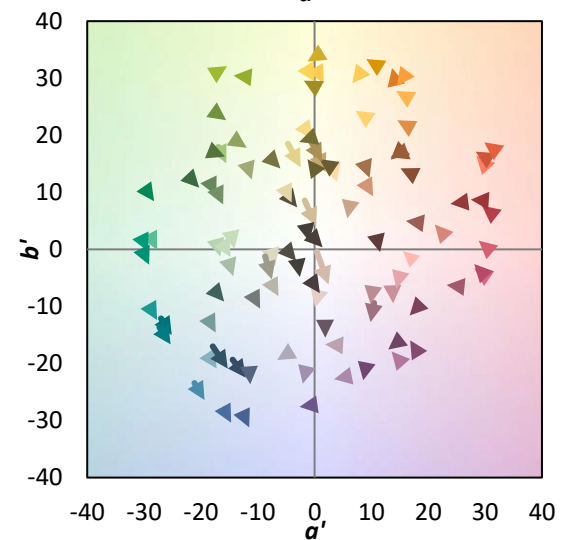
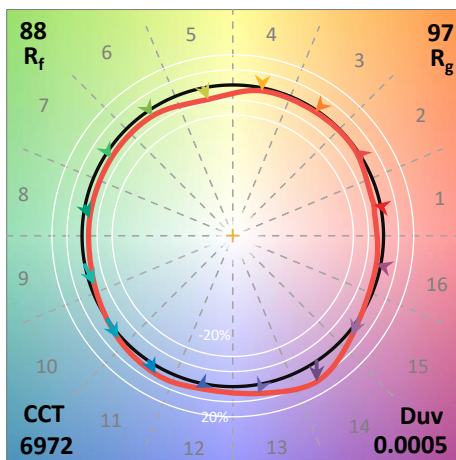
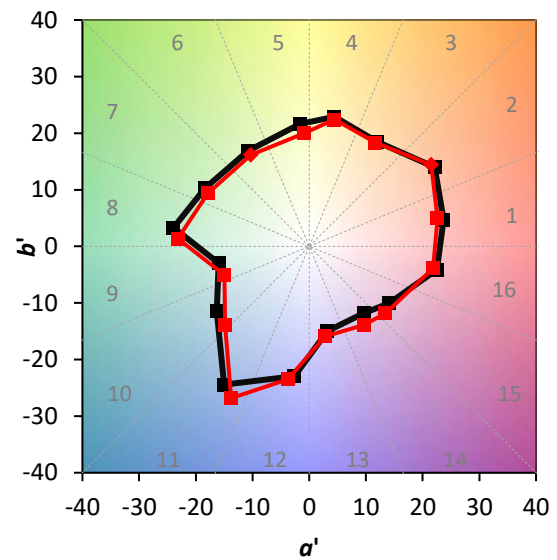
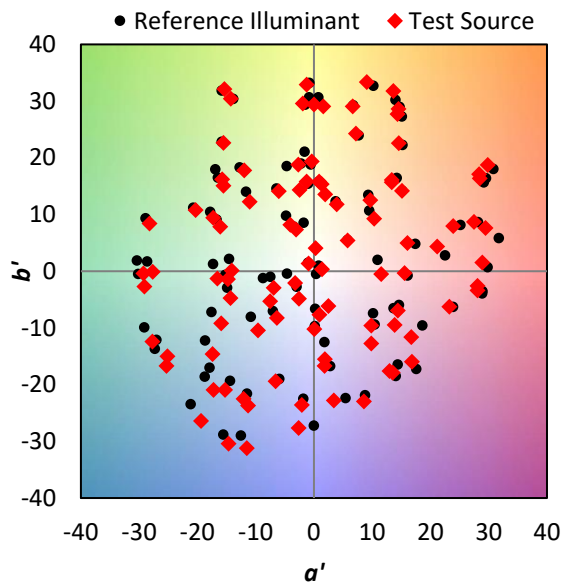
TM-30-18

Summary

$R_f = 88.2$
 $R_g = 97.1$
 $CIE R_a = 94.3$
 $R_9 = 82.6$

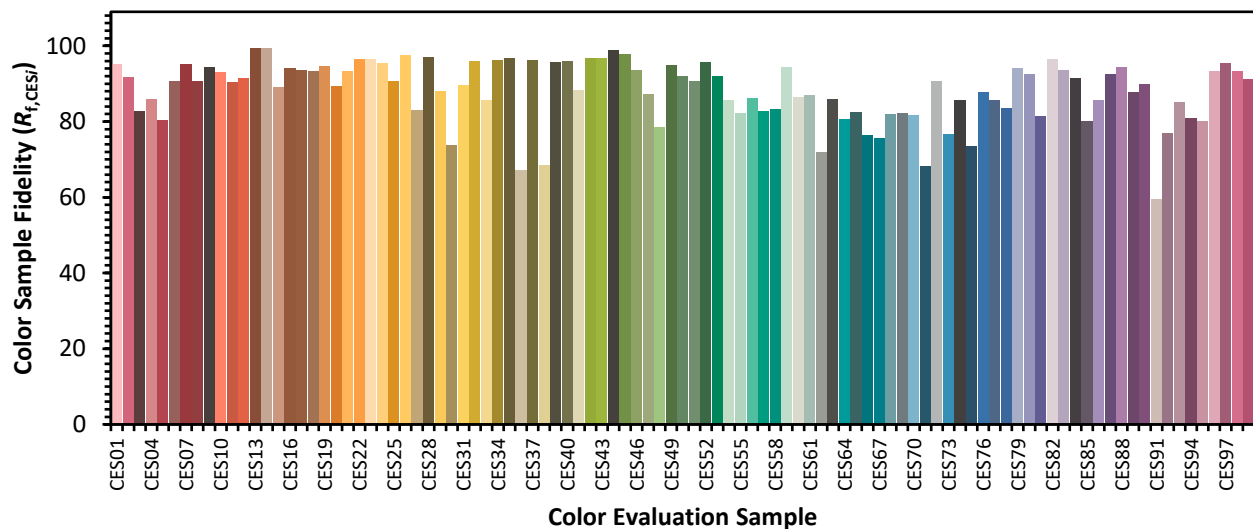


Color Vector Graphics

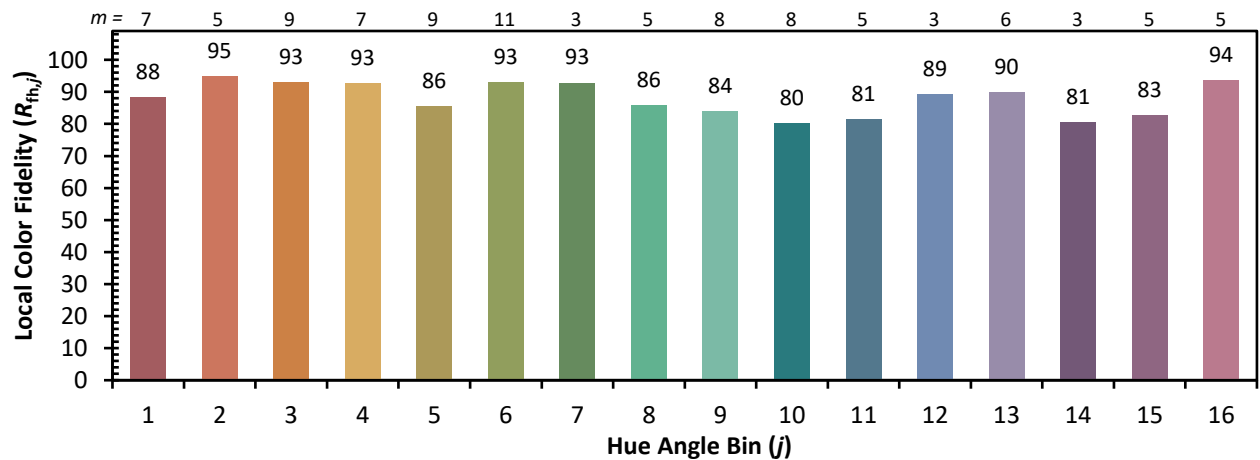


Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 97	CES51 = 91	CES76 = 88
CES02 = 60	CES27 = 83	CES52 = 96	CES77 = 86
CES03 = 31	CES28 = 97	CES53 = 92	CES78 = 83
CES04 = 68	CES29 = 88	CES54 = 86	CES79 = 94
CES05 = 47	CES30 = 74	CES55 = 82	CES80 = 93
CES06 = 49	CES31 = 90	CES56 = 86	CES81 = 81
CES07 = 40	CES32 = 96	CES57 = 83	CES82 = 96
CES08 = 39	CES33 = 86	CES58 = 83	CES83 = 94
CES09 = 29	CES34 = 96	CES59 = 94	CES84 = 91
CES10 = 72	CES35 = 97	CES60 = 87	CES85 = 80
CES11 = 55	CES36 = 67	CES61 = 87	CES86 = 86
CES12 = 61	CES37 = 96	CES62 = 72	CES87 = 93
CES13 = 42	CES38 = 68	CES63 = 86	CES88 = 94
CES14 = 74	CES39 = 96	CES64 = 81	CES89 = 88
CES15 = 71	CES40 = 96	CES65 = 83	CES90 = 90
CES16 = 46	CES41 = 88	CES66 = 76	CES91 = 60
CES17 = 48	CES42 = 97	CES67 = 76	CES92 = 77
CES18 = 55	CES43 = 97	CES68 = 82	CES93 = 85
CES19 = 69	CES44 = 99	CES69 = 82	CES94 = 81
CES20 = 64	CES45 = 98	CES70 = 82	CES95 = 80
CES21 = 84	CES46 = 93	CES71 = 68	CES96 = 93
CES22 = 76	CES47 = 87	CES72 = 91	CES97 = 95
CES23 = 91	CES48 = 79	CES73 = 77	CES98 = 93
CES24 = 89	CES49 = 95	CES74 = 86	CES99 = 91
CES25 = 69	CES50 = 92	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)