

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: P1357299

Luminaire Tested: 6ASL4-10HE-2-65-UNV

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357299
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-2-65-UNV
Description: 6FT 1000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 6500K LEDS 2 ROW
Light Source: -
Ballast/Driver: -

Summary

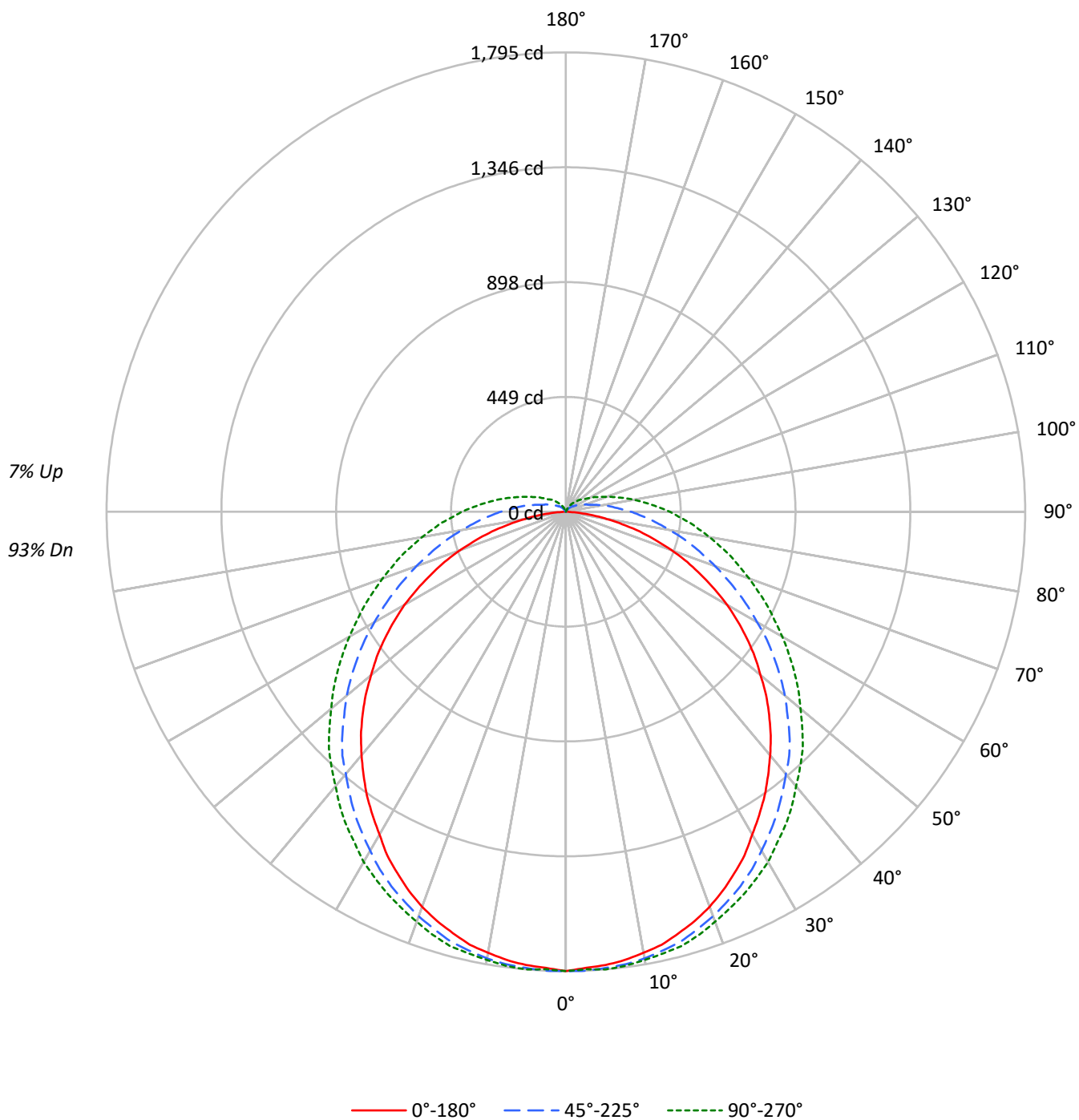
Lumens per Lamp: N/A
Luminaire Lumens: 6162.0 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 5.98' x H: 0.1')
CIE Type: Direct

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

TEST NUMBER: P1357299

CATALOG NUMBER: 6ASL4-10HE-2-65-UNV

Luminous Intensity Polar Plot



TEST NUMBER: P1357299

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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°	9694	9694	9694
5°	9625	9506	9472
10°	9567	9335	9241
15°	9487	9149	9057
20°	9381	8910	8796
25°	9209	8676	8573
30°	8991	8407	8349
35°	8824	8157	8091
40°	8629	7887	7819
45°	8432	7655	7620
50°	8177	7347	7326
55°	7934	7016	7092
60°	7634	6644	6843
65°	7162	6298	6651
70°	6635	5975	6474
75°	5862	5729	6415
80°	4634	5516	6396
85°	2915	5533	6579

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8432 cd/sqm

TEST NUMBER: P1357299

CATALOG NUMBER: 6ASL4-10HE-2-65-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.2	2.8
10°-20°	489.3	7.9
20°-30°	741.4	12.0
30°-40°	896.7	14.6
40°-50°	945.4	15.3
50°-60°	882.3	14.3
60°-70°	728.5	11.8
70°-80°	528.4	8.6
80°-90°	333.9	5.4
90°-100°	199.3	3.2
100°-110°	114.2	1.9
110°-120°	64.9	1.1
120°-130°	37.0	0.6
130°-140°	20.0	0.3
140°-150°	8.8	0.1
150°-160°	1.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1400.9	22.7
0°-40°	2297.7	37.3
0°-60°	4125.3	66.9
0°-90°	5716.1	92.8
90°-120°	378.4	6.1
90°-150°	444.2	7.2
90°-180°	446.0	7.2
0°-180°	6162.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1795	1795	1795	1795	1795	
5°	1778	1795	1789	1789	1795	169
15°	1705	1727	1738	1744	1755	481
25°	1558	1580	1614	1637	1648	718
35°	1355	1388	1439	1479	1496	847
45°	1123	1168	1236	1287	1310	866
55°	864	914	993	1061	1089	772
65°	581	644	739	830	869	577
75°	299	378	514	621	666	315
85°	56	175	327	440	485	69
90°	0	107	254	361	406	2
95°	0	68	192	294	333	0
105°	0	23	107	186	214	0
115°	0	11	62	113	136	0
125°	0	6	40	73	85	0
135°	0	0	23	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

TEST NUMBER: P1357299

CATALOG NUMBER: 6ASL4-10HE-2-65-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1794.9	1794.9	1794.9	1794.9	1794.9
2.5°	1783.6	1800.6	1794.9	1789.3	1789.3
5°	1778.0	1794.9	1789.3	1789.3	1794.9
7.5°	1766.7	1783.6	1783.6	1783.6	1789.3
10°	1749.8	1772.3	1772.3	1772.3	1778.0
12.5°	1732.8	1749.8	1755.4	1761.1	1766.7
15°	1704.6	1727.2	1738.5	1744.1	1755.4
17.5°	1676.4	1693.3	1710.3	1727.2	1732.8
20°	1642.5	1665.1	1682.0	1699.0	1704.6
22.5°	1603.0	1625.6	1648.2	1665.1	1676.4
25°	1557.9	1580.4	1614.3	1636.9	1648.2
27.5°	1512.7	1535.3	1574.8	1603.0	1614.3
30°	1456.3	1490.1	1529.6	1563.5	1580.4
32.5°	1405.5	1439.3	1484.5	1524.0	1535.3
35°	1354.7	1388.5	1439.3	1478.8	1495.8
37.5°	1298.2	1337.7	1388.5	1433.7	1450.6
40°	1241.8	1281.3	1337.7	1388.5	1399.8
42.5°	1185.3	1224.8	1292.6	1337.7	1354.7
45°	1123.2	1168.4	1236.1	1286.9	1309.5
47.5°	1061.2	1106.3	1174.0	1230.5	1253.1
50°	993.4	1044.2	1117.6	1174.0	1196.6
52.5°	931.3	982.1	1055.5	1117.6	1145.8
55°	863.6	914.4	993.4	1061.2	1089.4
57.5°	795.9	846.7	931.3	1004.7	1032.9
60°	728.1	778.9	863.6	948.3	976.5
62.5°	654.8	711.2	801.5	886.2	920.0
65°	581.4	643.5	739.4	829.7	869.2
67.5°	513.6	575.7	677.3	778.9	812.8
70°	440.3	508.0	620.9	722.5	762.0
72.5°	366.9	440.3	564.4	671.7	711.2
75°	299.2	378.2	513.6	620.9	666.0
77.5°	225.8	321.7	462.8	575.7	615.2
80°	163.7	265.3	412.0	530.6	570.1
82.5°	107.2	214.5	366.9	485.4	524.9
85°	56.4	175.0	327.4	440.3	485.4
87.5°	16.9	135.5	287.9	400.8	440.3
90°	0.0	107.2	254.0	361.2	406.4
92.5°	0.0	84.7	220.1	327.4	366.9
95°	0.0	67.7	191.9	293.5	333.0
97.5°	0.0	56.4	169.3	265.3	299.2
100°	0.0	45.2	146.8	237.1	270.9
102.5°	0.0	33.9	124.2	208.8	242.7
105°	0.0	22.6	107.2	186.3	214.5
107.5°	0.0	16.9	90.3	163.7	191.9
110°	0.0	16.9	84.7	141.1	169.3



TEST NUMBER: P1357299

CATALOG NUMBER: 6ASL4-10HE-2-65-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	11.3	73.4	129.8	152.4
115°	0.0	11.3	62.1	112.9	135.5
117.5°	0.0	11.3	56.4	101.6	124.2
120°	0.0	11.3	50.8	90.3	107.2
122.5°	0.0	5.6	45.2	79.0	96.0
125°	0.0	5.6	39.5	73.4	84.7
127.5°	0.0	5.6	33.9	67.7	79.0
130°	0.0	5.6	33.9	62.1	73.4
132.5°	0.0	0.0	28.2	56.4	67.7
135°	0.0	0.0	22.6	45.2	56.4
137.5°	0.0	0.0	22.6	39.5	50.8
140°	0.0	0.0	16.9	39.5	45.2
142.5°	0.0	0.0	11.3	33.9	39.5
145°	0.0	0.0	11.3	28.2	33.9
147.5°	0.0	0.0	5.6	22.6	28.2
150°	0.0	0.0	5.6	16.9	22.6
152.5°	0.0	0.0	0.0	11.3	16.9
155°	0.0	0.0	0.0	5.6	11.3
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

TEST NUMBER: P1357299

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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	17.21	18.75	17.69	19.21	19.70	19.30	20.84	19.77	21.30	21.79
	3H	18.72	20.12	19.20	20.59	21.12	21.77	23.17	22.25	23.64	24.17
	4H	19.20	20.52	19.70	21.01	21.56	22.99	24.31	23.49	24.80	25.35
	6H	19.47	20.71	19.99	21.21	21.77	24.28	25.51	24.79	26.01	26.57
	8H	19.52	20.71	20.06	21.23	21.80	24.95	26.13	25.48	26.66	27.23
	12H	19.54	20.68	20.08	21.19	21.79	25.70	26.84	26.24	27.36	27.96
4H	2H	18.10	19.43	18.61	19.91	20.46	19.73	21.06	20.24	21.55	22.09
	3H	19.84	20.97	20.36	21.50	22.07	22.42	23.56	22.94	24.09	24.65
	4H	20.45	21.49	20.99	22.03	22.63	23.82	24.86	24.36	25.40	26.00
	6H	20.85	21.77	21.41	22.33	22.95	25.31	26.22	25.87	26.79	27.40
	8H	20.95	21.81	21.51	22.38	23.00	26.09	26.95	26.65	27.52	28.14
	12H	21.00	21.78	21.58	22.37	23.00	26.97	27.75	27.55	28.34	28.98
8H	4H	21.15	22.01	21.72	22.58	23.21	24.04	24.90	24.60	25.47	26.09
	6H	21.74	22.47	22.33	23.08	23.71	25.70	26.43	26.30	27.04	27.67
	8H	21.93	22.59	22.53	23.21	23.85	26.63	27.29	27.23	27.90	28.55
	12H	22.05	22.64	22.66	23.24	23.95	27.69	28.28	28.30	28.89	29.60
12H	4H	21.36	22.14	21.94	22.73	23.36	24.05	24.83	24.63	25.43	26.06
	6H	22.05	22.71	22.66	23.33	23.97	25.74	26.40	26.35	27.02	27.66
	8H	22.33	22.92	22.94	23.53	24.24	26.73	27.32	27.34	27.93	28.64

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

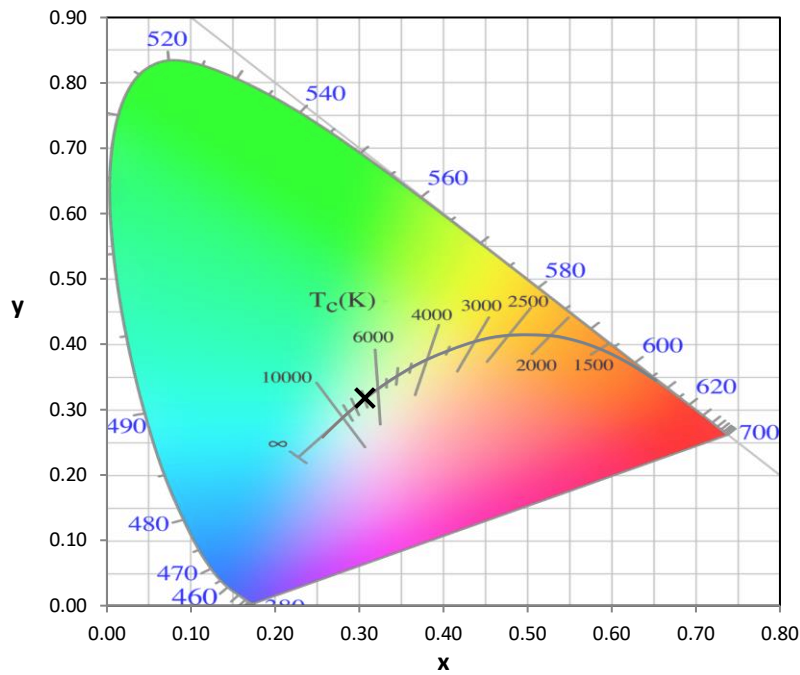
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.1

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

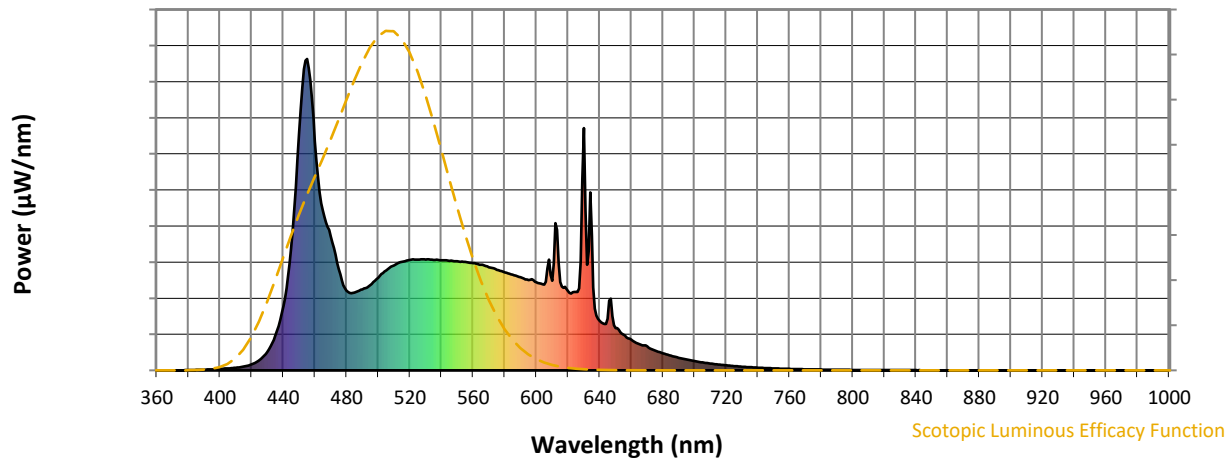


Photopic Lumens: NR

λ (nm)	Power W ^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	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



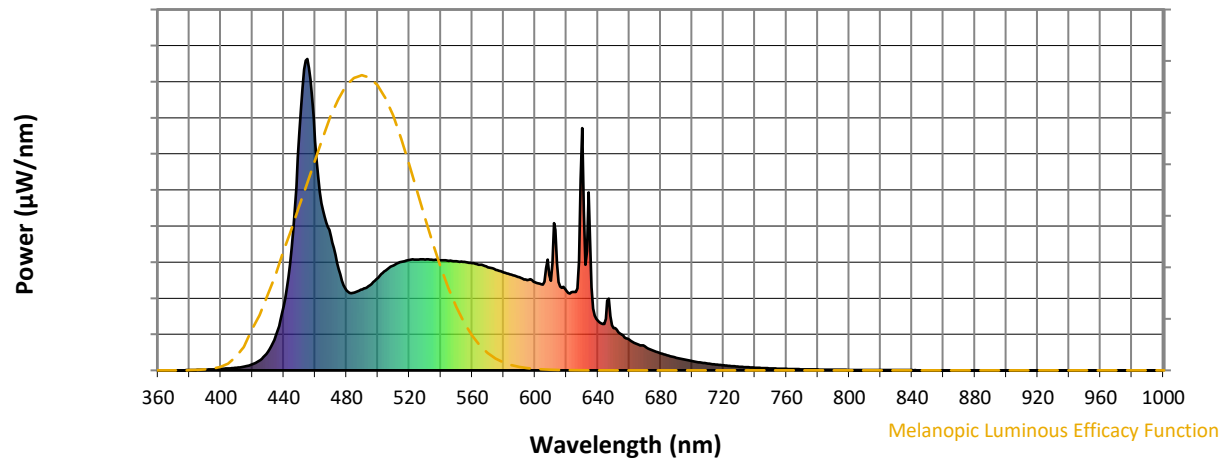
Scotopic Lumens: NR

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

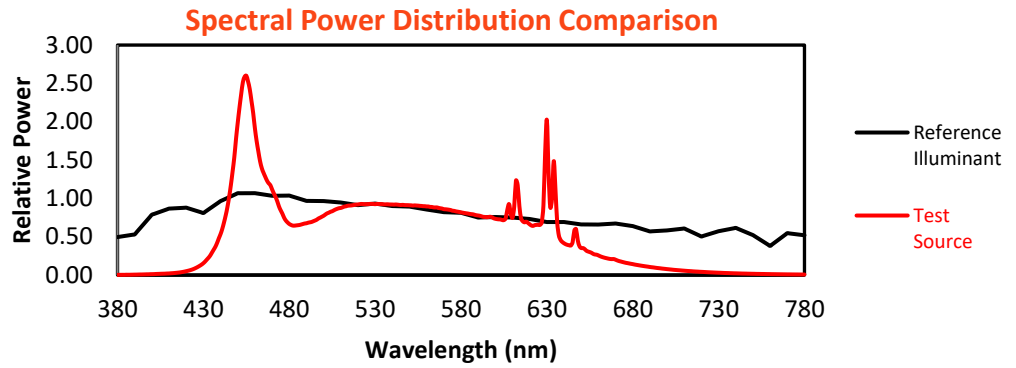
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	260	NR	620	255	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

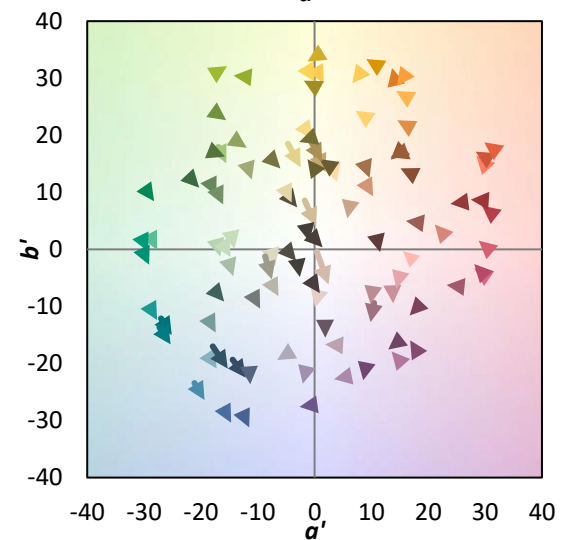
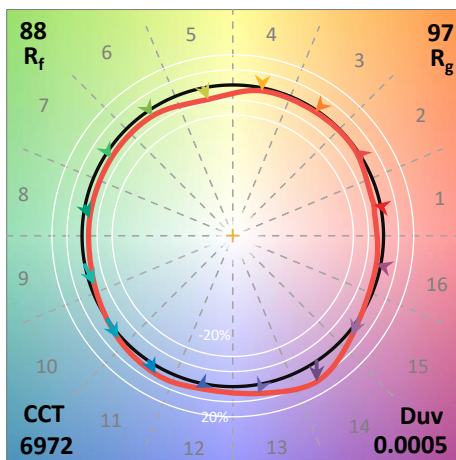
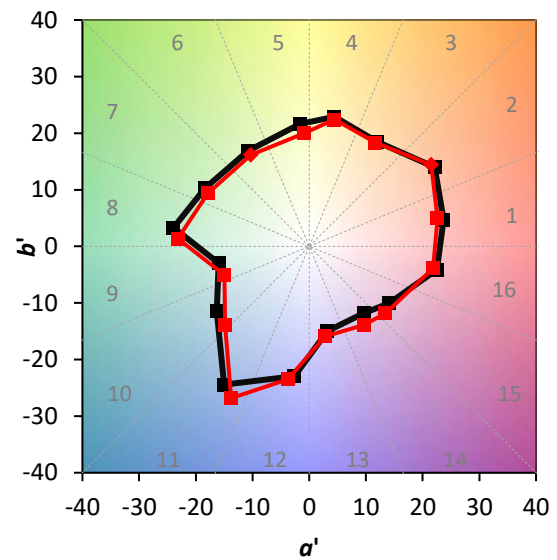
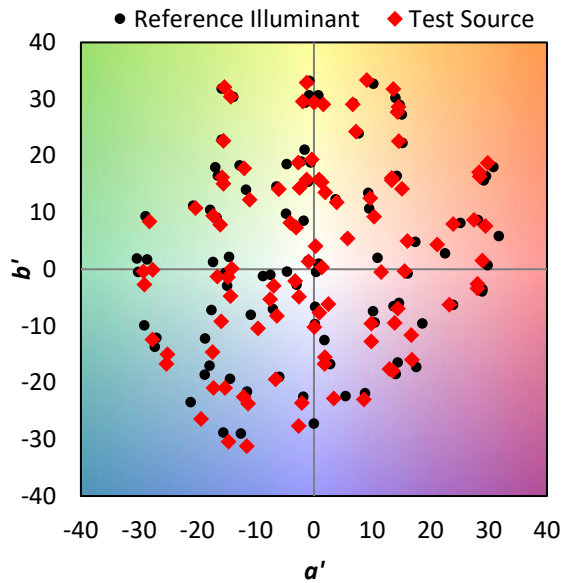
TM-30-18

Summary

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

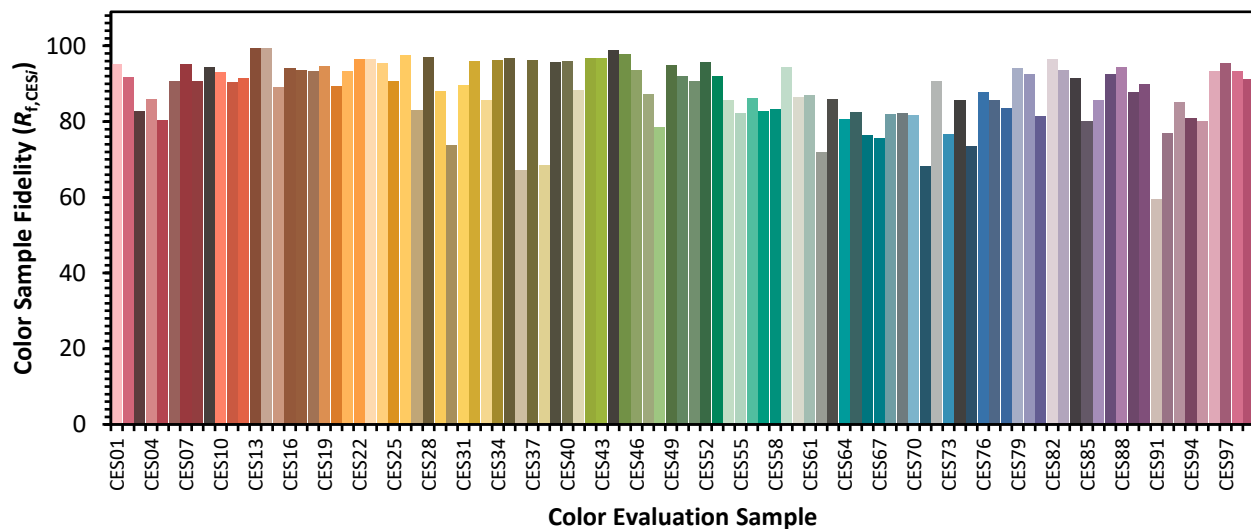


Color Vector Graphics

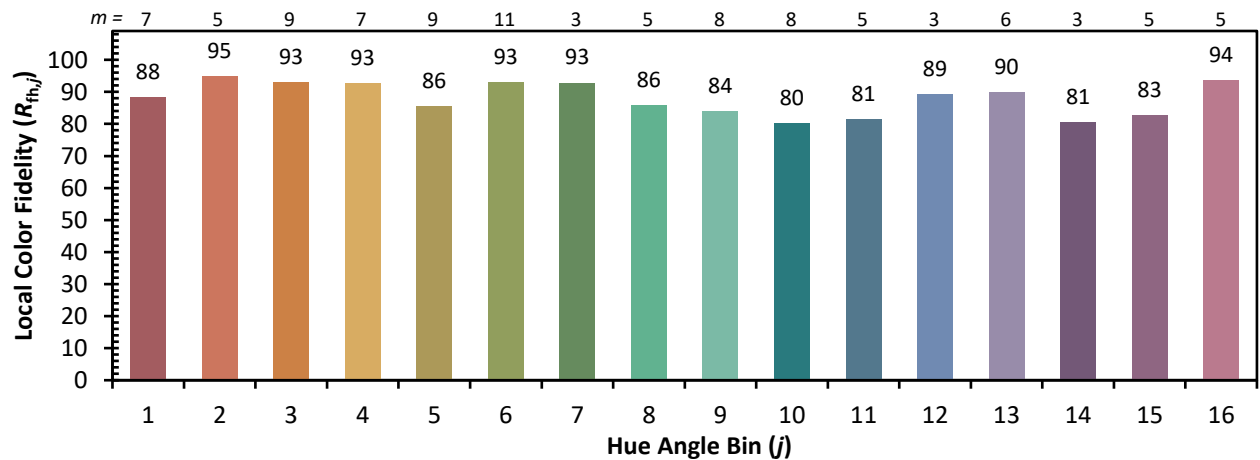


Individual Sample Fidelity Index ($R_{f,i}$)

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)