

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: P1356930

Luminaire Tested: 2ASL4-35VHE-3-65-UNV

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1356930
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: 2ASL4-35VHE-3-65-UNV
Description: 2FT 3500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 6500K LEDS 3 ROW
Light Source: -
Ballast/Driver: -

Summary

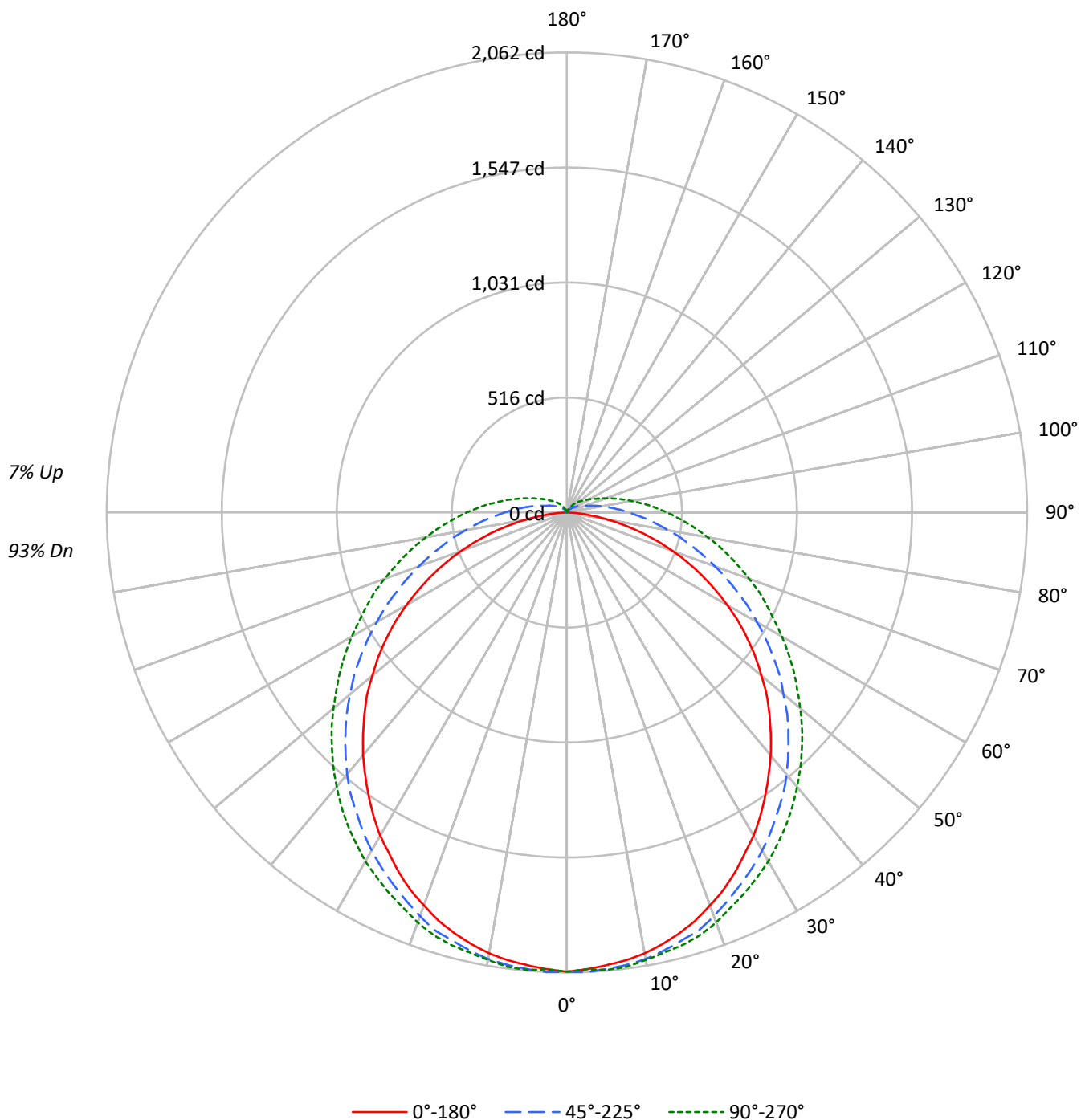
Lumens per Lamp: N/A
Luminaire Lumens: 6998.0 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 63.2
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

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Luminous Intensity Polar Plot



TEST NUMBER: P1356930

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	117	117	117	117	114	114	114	114	107	107	107		101	101	101		96
1	105	100	95	91	102	97	92	88	91	88	84		86	83	80		81
2	95	86	79	72	92	84	77	71	79	73	68		75	70	66		71
3	86	75	67	60	83	73	65	59	69	62	57		65	60	55		62
4	79	66	57	50	76	65	56	49	61	54	48		58	52	47		55
5	73	59	50	43	70	58	49	42	55	47	41		52	45	40		49
6	67	53	44	37	64	52	43	37	49	42	36		47	40	35		45
7	62	48	39	33	60	47	38	32	45	37	32		43	36	31		41
8	58	44	35	29	56	43	35	29	41	34	28		39	32	28		37
9	54	40	32	26	52	39	31	26	38	30	25		36	30	25		35
10	50	37	29	24	49	36	29	23	35	28	23		33	27	23		32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	33582	33582	33582
5°	33206	32896	32813
10°	32944	32208	31983
15°	32500	31368	31280
20°	31930	30562	30486
25°	31279	29565	29584
30°	30592	28695	28820
35°	29757	27717	27971
40°	28978	26818	27076
45°	28139	25739	26179
50°	27186	24585	25246
55°	26153	23478	24406
60°	24825	22192	23554
65°	23156	20947	22850
70°	21043	19703	22294
75°	18036	18547	21916
80°	13626	17619	21756
85°	7504	17232	22078

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 28139 cd/sqm

TEST NUMBER: P1356930

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.2	2.8
10°-20°	560.4	8.0
20°-30°	847.2	12.1
30°-40°	1025.9	14.7
40°-50°	1077.5	15.4
50°-60°	1005.2	14.4
60°-70°	830.8	11.9
70°-80°	598.2	8.5
80°-90°	371.7	5.3
90°-100°	217.8	3.1
100°-110°	124.6	1.8
110°-120°	70.3	1.0
120°-130°	40.5	0.6
130°-140°	21.8	0.3
140°-150°	9.2	0.1
150°-160°	1.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1602.8	22.9
0°-40°	2628.7	37.6
0°-60°	4711.4	67.3
0°-90°	6512.1	93.1
90°-120°	412.7	5.9
90°-150°	484.2	6.9
90°-180°	486.0	6.9
0°-180°	6998.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2058	2058	2058	2058	2058	
5°	2037	2054	2054	2054	2058	194
15°	1951	1977	1986	1998	2007	550
25°	1780	1810	1840	1866	1883	820
35°	1549	1592	1643	1690	1712	970
45°	1284	1331	1404	1463	1489	990
55°	988	1044	1130	1211	1241	883
65°	668	732	843	950	988	661
75°	342	428	578	702	753	362
85°	64	193	364	492	539	79
90°	0	116	278	398	449	3
95°	0	73	210	321	368	0
105°	0	26	116	201	235	0
115°	0	13	68	124	146	0
125°	0	9	43	81	94	0
135°	0	0	26	51	64	0
145°	0	0	13	30	34	0
155°	0	0	0	9	13	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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2058.2	2058.2	2058.2	2058.2	2058.2
2.5°	2049.6	2062.5	2062.5	2049.6	2049.6
5°	2036.8	2053.9	2053.9	2053.9	2058.2
7.5°	2024.0	2045.4	2045.4	2045.4	2053.9
10°	2006.9	2028.3	2032.5	2032.5	2036.8
12.5°	1981.2	2006.9	2011.1	2015.4	2019.7
15°	1951.2	1976.9	1985.5	1998.3	2006.9
17.5°	1917.0	1947.0	1964.1	1976.9	1985.5
20°	1874.2	1904.2	1925.6	1942.7	1955.5
22.5°	1831.4	1857.1	1882.8	1904.2	1917.0
25°	1780.1	1810.0	1840.0	1865.7	1882.8
27.5°	1724.4	1758.7	1797.2	1827.1	1844.3
30°	1673.1	1707.3	1750.1	1788.6	1805.7
32.5°	1613.2	1651.7	1698.8	1737.3	1758.7
35°	1549.0	1591.8	1643.1	1690.2	1711.6
37.5°	1484.8	1527.6	1591.8	1638.9	1660.3
40°	1420.6	1463.4	1531.9	1583.2	1604.6
42.5°	1352.2	1395.0	1467.7	1523.3	1549.0
45°	1283.7	1330.8	1403.5	1463.4	1489.1
47.5°	1215.2	1262.3	1339.3	1403.5	1429.2
50°	1138.2	1189.6	1266.6	1339.3	1365.0
52.5°	1065.5	1116.8	1202.4	1275.1	1300.8
55°	988.5	1044.1	1129.7	1211.0	1240.9
57.5°	911.4	967.1	1056.9	1142.5	1176.7
60°	830.1	890.0	984.2	1074.0	1112.5
62.5°	748.8	813.0	915.7	1009.8	1048.4
65°	667.5	731.7	843.0	949.9	988.5
67.5°	586.2	654.7	774.5	885.8	932.8
70°	504.9	577.7	706.0	821.6	868.6
72.5°	423.6	500.6	641.9	761.7	808.7
75°	342.3	427.9	577.7	701.8	753.1
77.5°	261.0	359.4	522.0	646.1	697.5
80°	188.3	299.5	462.1	590.5	641.9
82.5°	119.8	239.6	410.8	539.2	590.5
85°	64.2	192.6	363.7	492.1	539.2
87.5°	21.4	149.8	316.6	445.0	492.1
90°	0.0	115.5	278.1	397.9	449.3
92.5°	0.0	89.9	243.9	359.4	406.5
95°	0.0	72.7	209.7	320.9	368.0
97.5°	0.0	59.9	184.0	286.7	329.5
100°	0.0	47.1	158.3	256.7	295.3
102.5°	0.0	38.5	136.9	226.8	265.3
105°	0.0	25.7	115.5	201.1	235.3
107.5°	0.0	21.4	98.4	179.7	209.7
110°	0.0	17.1	89.9	154.0	184.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	12.8	81.3	136.9	166.9
115°	0.0	12.8	68.5	124.1	145.5
117.5°	0.0	12.8	59.9	111.3	132.6
120°	0.0	8.6	55.6	98.4	119.8
122.5°	0.0	8.6	47.1	89.9	107.0
125°	0.0	8.6	42.8	81.3	94.1
127.5°	0.0	4.3	38.5	72.7	85.6
130°	0.0	4.3	34.2	64.2	77.0
132.5°	0.0	4.3	30.0	59.9	72.7
135°	0.0	0.0	25.7	51.3	64.2
137.5°	0.0	0.0	21.4	47.1	55.6
140°	0.0	0.0	17.1	38.5	51.3
142.5°	0.0	0.0	12.8	34.2	42.8
145°	0.0	0.0	12.8	30.0	34.2
147.5°	0.0	0.0	8.6	21.4	30.0
150°	0.0	0.0	4.3	17.1	21.4
152.5°	0.0	0.0	0.0	12.8	17.1
155°	0.0	0.0	0.0	8.6	12.8
157.5°	0.0	0.0	0.0	0.0	4.3
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

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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	21.51	23.05	21.98	23.51	23.99	23.45	24.99	23.92	25.45	25.93
	3H	23.01	24.41	23.49	24.88	25.40	25.88	27.29	26.36	27.75	28.27
	4H	23.49	24.82	23.99	25.31	25.84	27.05	28.38	27.55	28.86	29.40
	6H	23.77	25.01	24.28	25.50	26.06	28.25	29.49	28.77	29.99	30.54
	8H	23.82	25.01	24.35	25.53	26.09	28.86	30.05	29.39	30.57	31.13
	12H	23.83	24.97	24.37	25.49	26.08	29.51	30.65	30.05	31.16	31.75
4H	2H	22.37	23.70	22.87	24.18	24.72	23.89	25.22	24.40	25.71	26.24
	3H	24.11	25.24	24.62	25.77	26.33	26.55	27.68	27.06	28.21	28.77
	4H	24.71	25.75	25.25	26.29	26.88	27.88	28.92	28.42	29.46	30.05
	6H	25.11	26.03	25.67	26.59	27.20	29.28	30.20	29.84	30.76	31.37
	8H	25.21	26.07	25.77	26.63	27.25	30.00	30.86	30.56	31.42	32.04
	12H	25.25	26.04	25.83	26.63	27.25	30.77	31.55	31.35	32.14	32.77
8H	4H	25.38	26.24	25.94	26.80	27.42	28.10	28.97	28.67	29.53	30.15
	6H	25.95	26.69	26.55	27.29	27.91	29.67	30.40	30.26	31.01	31.63
	8H	26.14	26.80	26.74	27.41	28.05	30.53	31.19	31.13	31.80	32.44
	12H	26.25	26.84	26.86	27.44	28.15	31.49	32.08	32.09	32.68	33.39
12H	4H	25.56	26.34	26.14	26.93	27.56	28.11	28.90	28.70	29.49	30.11
	6H	26.24	26.90	26.84	27.51	28.15	29.71	30.37	30.31	30.99	31.62
	8H	26.51	27.10	27.12	27.71	28.41	30.64	31.23	31.24	31.83	32.53

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

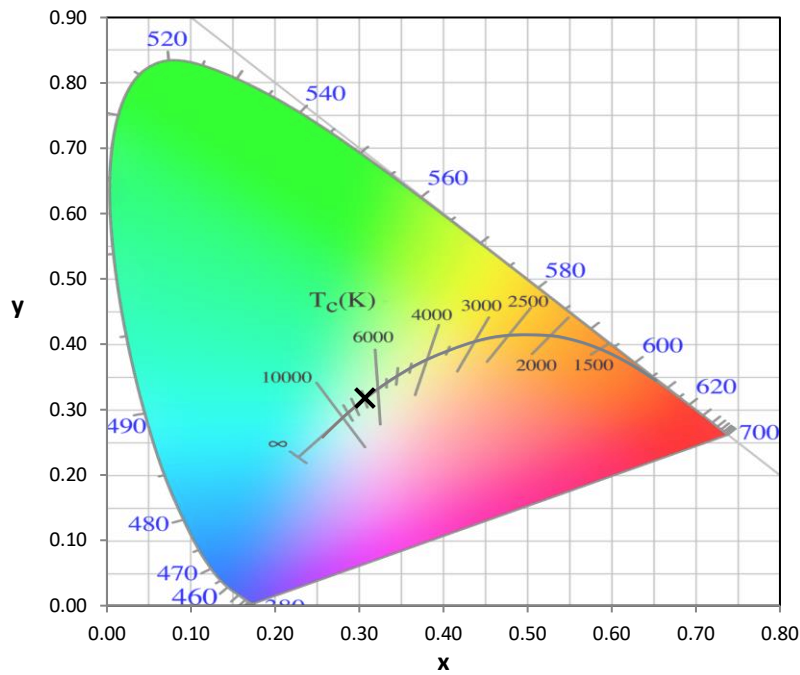
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.1

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

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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 6500K 7-step quadrangle

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Photopic Flux vs. Wavelength

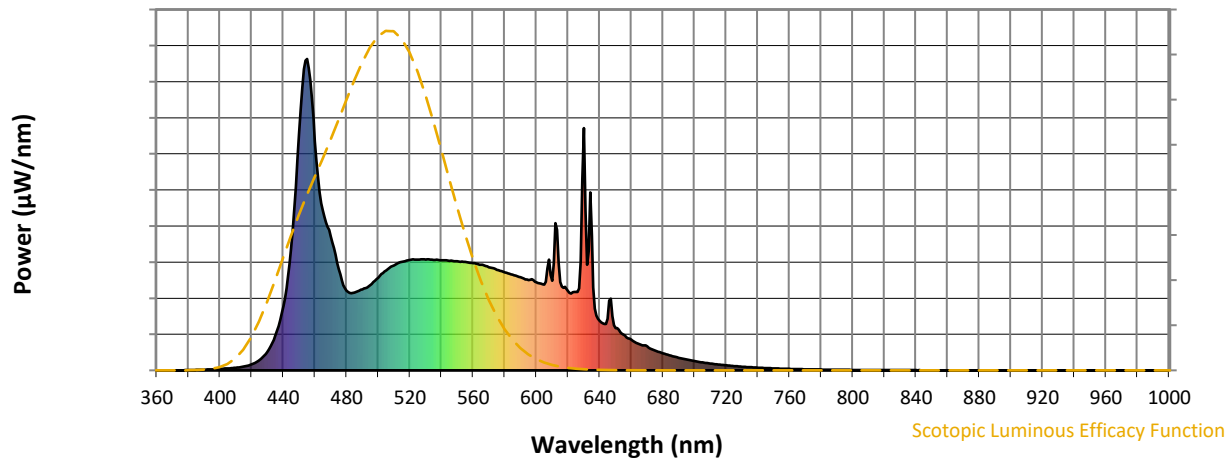


Photopic Lumens: NR

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	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			

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Scotopic Flux vs. Wavelength



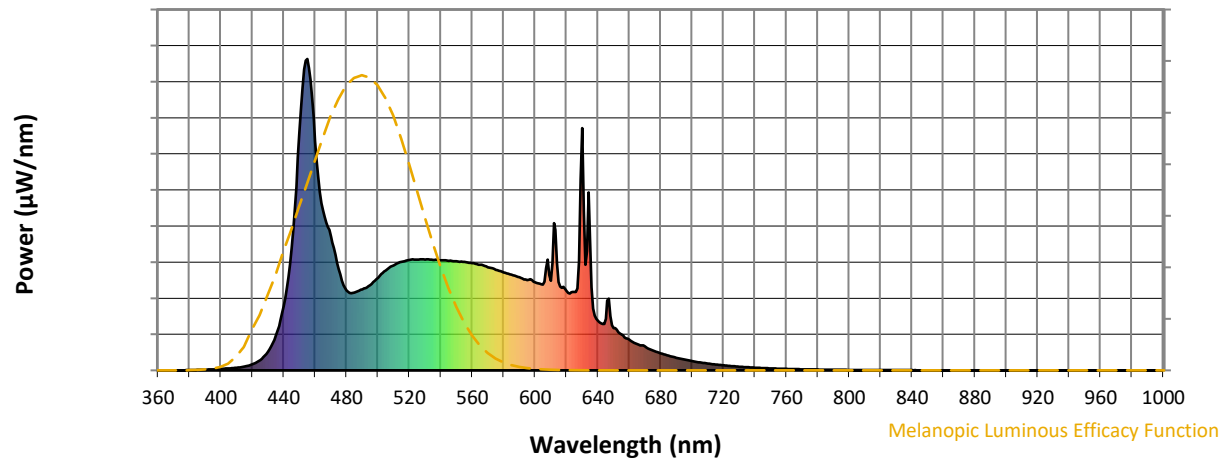
Scotopic Lumens: NR

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			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 5.67

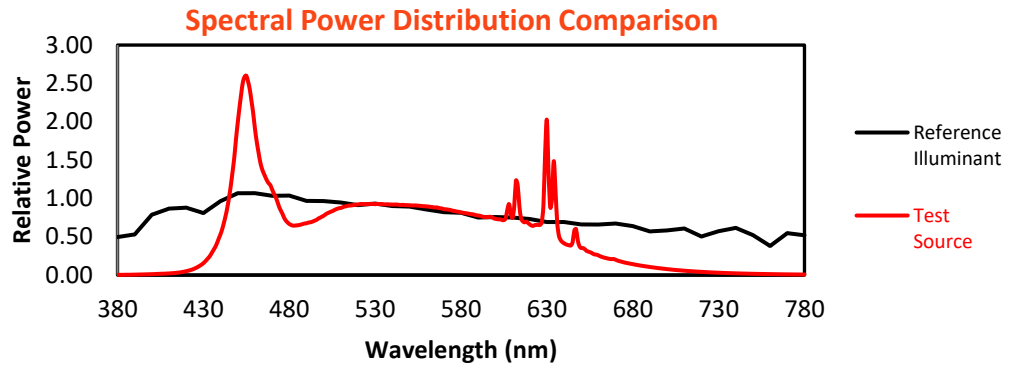
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	260	NR	620	255	NR	750	6	NR	880	0	NR
365	0	NR	495	274	NR	625	252	NR	755	6	NR	885	0	NR
370	0	NR	500	297	NR	630	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			

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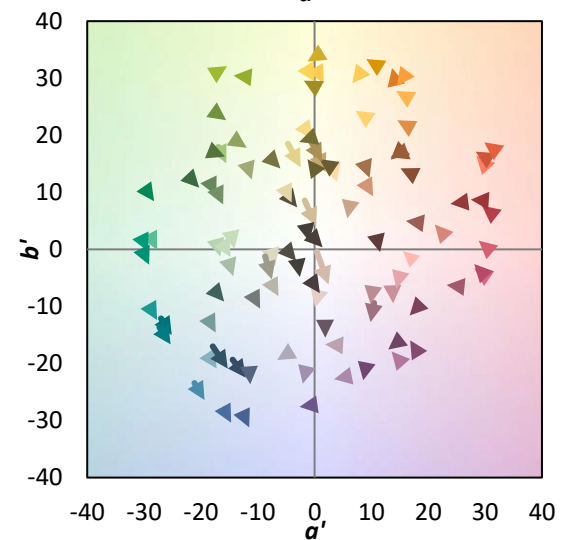
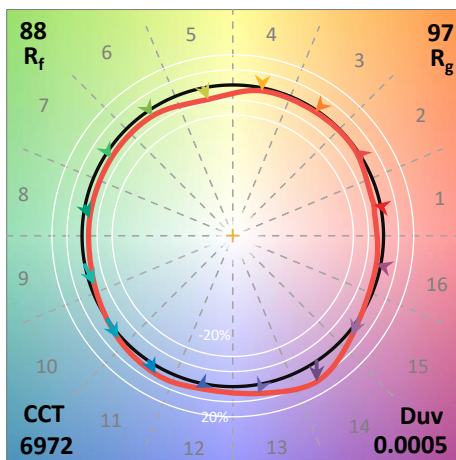
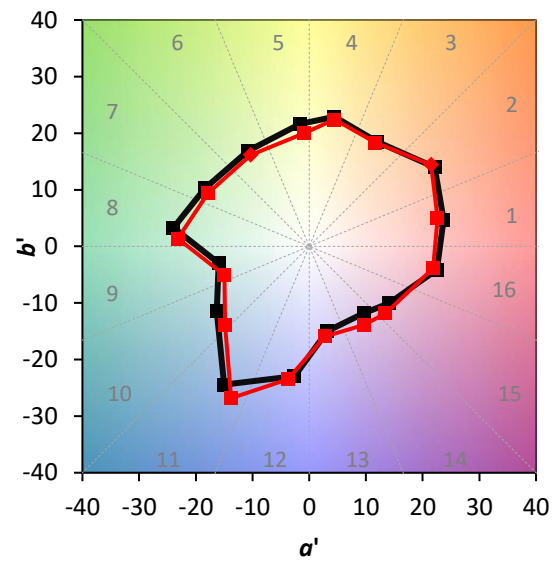
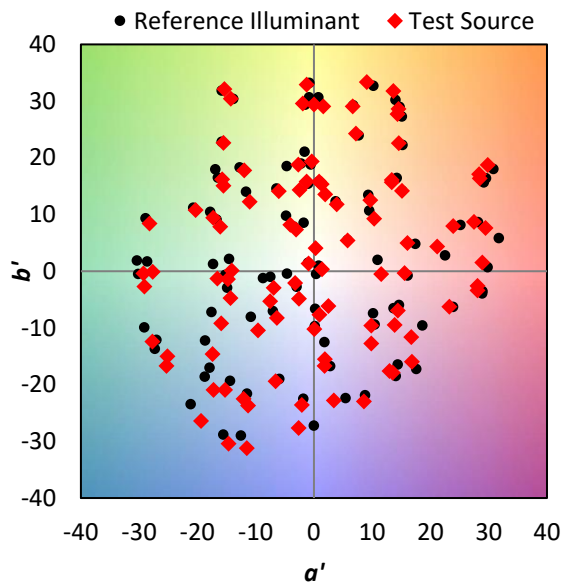
TM-30-18

Summary

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

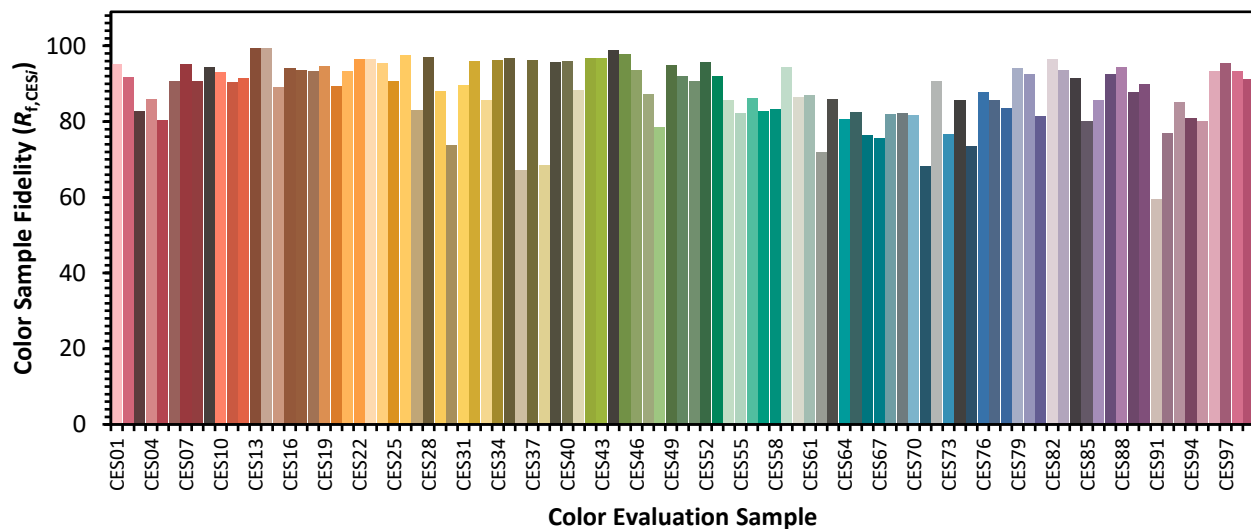


Color Vector Graphics

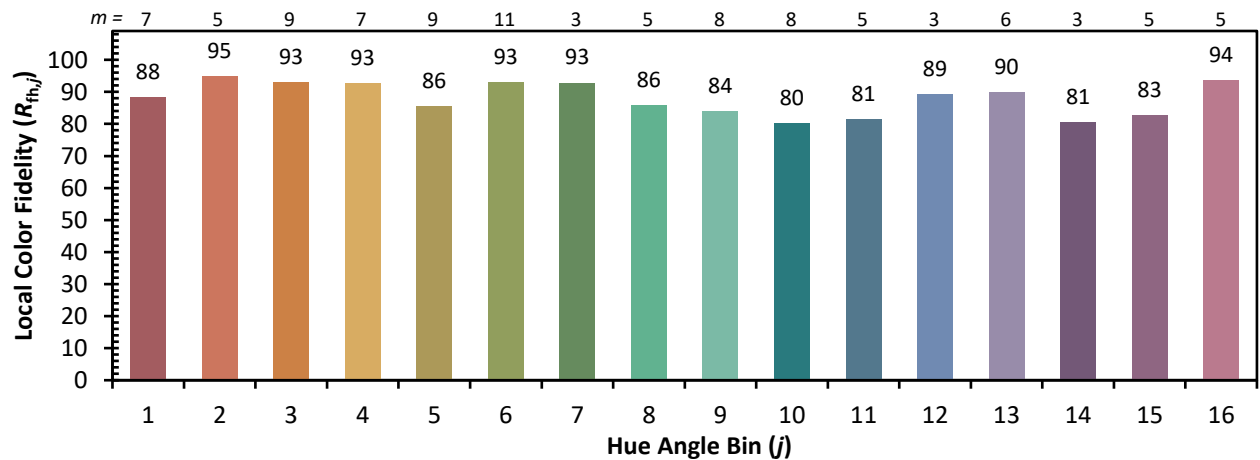


Individual Sample Fidelity Index ($R_{f,i}$)

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)