

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: P1357536

Luminaire Tested: 8ASL4-30VHE-3-R63-UNV

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357536
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: 8ASL4-30VHE-3-R63-UNV
Description: 8FT 3000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND R63 LEDS 3 ROW
Light Source: -
Ballast/Driver: -

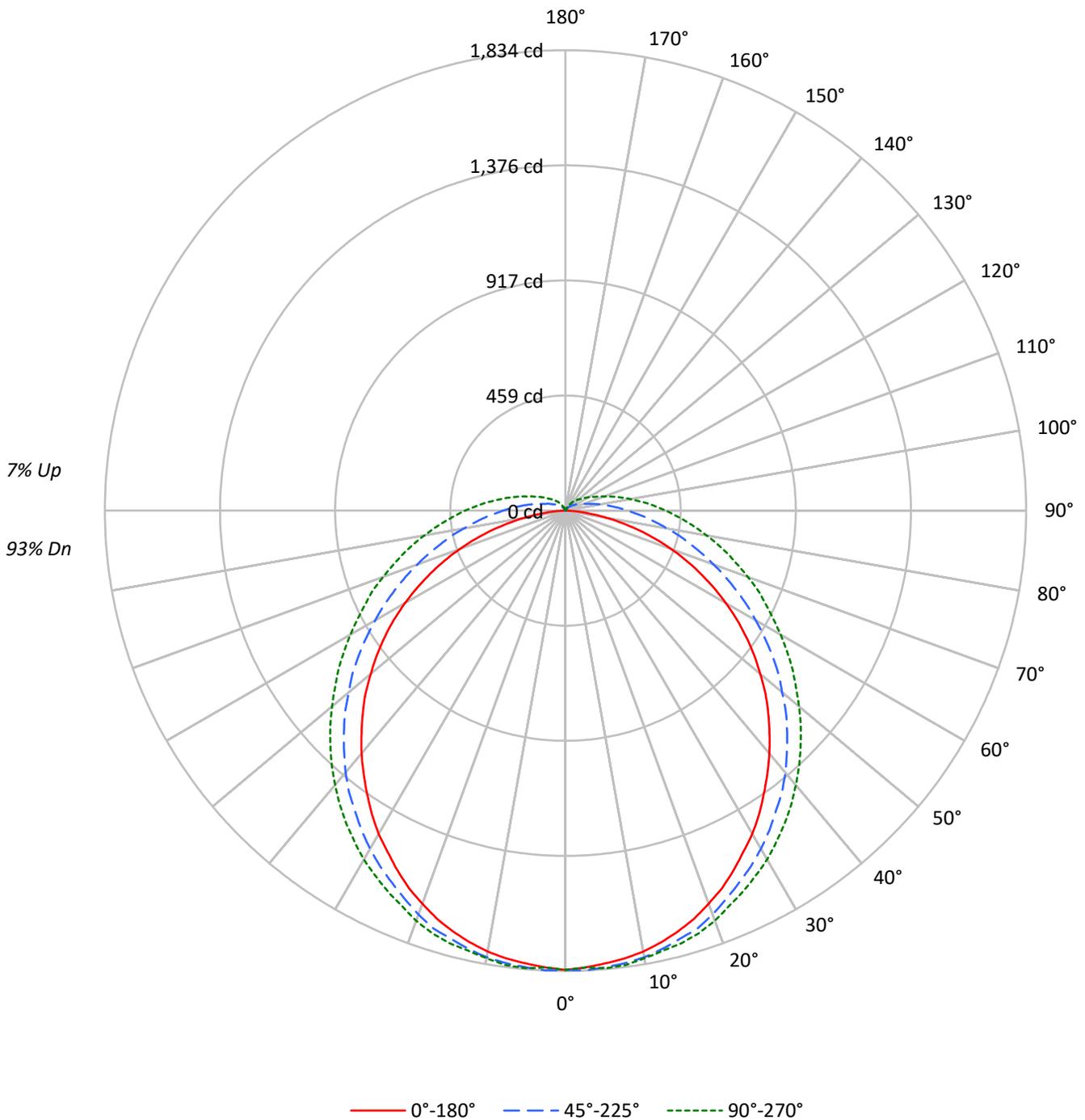
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6221.0 lumens
Efficiency: N/A
Efficacy: 40.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 7.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 155.7
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: P1357536
CATALOG NUMBER: 8ASL4-30VHE-3-R63-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P1357536
 CATALOG NUMBER: 8ASL4-30VHE-3-R63-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°	7405	7405	7405
5°	7348	7271	7235
10°	7314	7136	7052
15°	7242	6965	6897
20°	7142	6802	6722
25°	7023	6596	6523
30°	6898	6418	6355
35°	6741	6215	6168
40°	6600	6030	5971
45°	6447	5805	5773
50°	6273	5563	5567
55°	6086	5332	5381
60°	5841	5063	5194
65°	5528	4804	5038
70°	5128	4549	4916
75°	4537	4319	4833
80°	3632	4153	4797
85°	2307	4134	4868

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6447 cd/sqm



TEST NUMBER: P1357536
 CATALOG NUMBER: 8ASL4-30VHE-3-R63-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.5	2.8
10°-20°	498.2	8.0
20°-30°	753.2	12.1
30°-40°	912.0	14.7
40°-50°	957.8	15.4
50°-60°	893.6	14.4
60°-70°	738.5	11.9
70°-80°	531.8	8.5
80°-90°	330.4	5.3
90°-100°	193.6	3.1
100°-110°	110.8	1.8
110°-120°	62.5	1.0
120°-130°	36.0	0.6
130°-140°	19.4	0.3
140°-150°	8.2	0.1
150°-160°	1.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1424.8	22.9
0°-40°	2336.8	37.6
0°-60°	4188.3	67.3
0°-90°	5789.0	93.1
90°-120°	366.9	5.9
90°-150°	430.5	6.9
90°-180°	432.0	6.9
0°-180°	6221.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1830	1830	1830	1830	1830	
5°	1811	1826	1826	1826	1830	172
15°	1735	1757	1765	1776	1784	489
25°	1582	1609	1636	1658	1674	729
35°	1377	1415	1461	1502	1522	862
45°	1141	1183	1248	1301	1324	880
55°	879	928	1004	1076	1103	785
65°	593	650	749	844	879	587
75°	304	380	514	624	670	322
85°	57	171	323	437	479	70
90°	0	103	247	354	399	3
95°	0	65	186	285	327	0
105°	0	23	103	179	209	0
115°	0	11	61	110	129	0
125°	0	8	38	72	84	0
135°	0	0	23	46	57	0
145°	0	0	11	27	30	0
155°	0	0	0	8	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: P1357536
 CATALOG NUMBER: 8ASL4-30VHE-3-R63-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1829.7	1829.7	1829.7	1829.7	1829.7
2.5°	1822.1	1833.5	1833.5	1822.1	1822.1
5°	1810.7	1825.9	1825.9	1825.9	1829.7
7.5°	1799.2	1818.3	1818.3	1818.3	1825.9
10°	1784.0	1803.1	1806.9	1806.9	1810.7
12.5°	1761.2	1784.0	1787.8	1791.6	1795.4
15°	1734.6	1757.4	1765.0	1776.4	1784.0
17.5°	1704.2	1730.8	1746.0	1757.4	1765.0
20°	1666.1	1692.7	1711.8	1727.0	1738.4
22.5°	1628.1	1650.9	1673.7	1692.7	1704.2
25°	1582.4	1609.1	1635.7	1658.5	1673.7
27.5°	1533.0	1563.4	1597.6	1624.3	1639.5
30°	1487.3	1517.8	1555.8	1590.0	1605.2
32.5°	1434.1	1468.3	1510.2	1544.4	1563.4
35°	1377.0	1415.1	1460.7	1502.5	1521.6
37.5°	1320.0	1358.0	1415.1	1456.9	1475.9
40°	1262.9	1300.9	1361.8	1407.4	1426.5
42.5°	1202.0	1240.1	1304.7	1354.2	1377.0
45°	1141.2	1183.0	1247.7	1300.9	1323.8
47.5°	1080.3	1122.2	1190.6	1247.7	1270.5
50°	1011.8	1057.5	1126.0	1190.6	1213.4
52.5°	947.2	992.8	1068.9	1133.6	1156.4
55°	878.7	928.2	1004.2	1076.5	1103.1
57.5°	810.2	859.7	939.6	1015.6	1046.1
60°	738.0	791.2	874.9	954.8	989.0
62.5°	665.7	722.7	814.0	897.7	932.0
65°	593.4	650.5	749.4	844.5	878.7
67.5°	521.1	582.0	688.5	787.4	829.3
70°	448.9	513.5	627.6	730.4	772.2
72.5°	376.6	445.1	570.6	677.1	718.9
75°	304.3	380.4	513.5	623.8	669.5
77.5°	232.0	319.5	464.1	574.4	620.0
80°	167.4	266.3	410.8	524.9	570.6
82.5°	106.5	213.0	365.2	479.3	524.9
85°	57.1	171.2	323.3	437.4	479.3
87.5°	19.0	133.1	281.5	395.6	437.4
90°	0.0	102.7	247.3	353.8	399.4
92.5°	0.0	79.9	216.8	319.5	361.4
95°	0.0	64.7	186.4	285.3	327.1
97.5°	0.0	53.3	163.6	254.9	292.9
100°	0.0	41.8	140.7	228.2	262.5
102.5°	0.0	34.2	121.7	201.6	235.8
105°	0.0	22.8	102.7	178.8	209.2
107.5°	0.0	19.0	87.5	159.8	186.4
110°	0.0	15.2	79.9	136.9	163.6



TEST NUMBER: P1357536
 CATALOG NUMBER: 8ASL4-30VHE-3-R63-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	11.4	72.3	121.7	148.4
115°	0.0	11.4	60.9	110.3	129.3
117.5°	0.0	11.4	53.3	98.9	117.9
120°	0.0	7.6	49.5	87.5	106.5
122.5°	0.0	7.6	41.8	79.9	95.1
125°	0.0	7.6	38.0	72.3	83.7
127.5°	0.0	3.8	34.2	64.7	76.1
130°	0.0	3.8	30.4	57.1	68.5
132.5°	0.0	3.8	26.6	53.3	64.7
135°	0.0	0.0	22.8	45.6	57.1
137.5°	0.0	0.0	19.0	41.8	49.5
140°	0.0	0.0	15.2	34.2	45.6
142.5°	0.0	0.0	11.4	30.4	38.0
145°	0.0	0.0	11.4	26.6	30.4
147.5°	0.0	0.0	7.6	19.0	26.6
150°	0.0	0.0	3.8	15.2	19.0
152.5°	0.0	0.0	0.0	11.4	15.2
155°	0.0	0.0	0.0	7.6	11.4
157.5°	0.0	0.0	0.0	0.0	3.8
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



TEST NUMBER: P1357536
 CATALOG NUMBER: 8ASL4-30VHE-3-R63-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	16.30	17.84	16.77	18.30	18.78	18.37	19.91	18.84	20.37	20.85
	3H	17.80	19.20	18.28	19.67	20.19	20.86	22.26	21.34	22.72	23.25
	4H	18.28	19.61	18.78	20.09	20.63	22.07	23.40	22.57	23.88	24.42
	6H	18.56	19.80	19.07	20.29	20.85	23.35	24.59	23.86	25.08	25.64
	8H	18.61	19.80	19.13	20.32	20.87	24.02	25.21	24.55	25.73	26.29
	12H	18.62	19.76	19.15	20.27	20.86	24.77	25.91	25.30	26.42	27.01
4H	2H	17.19	18.52	17.69	19.00	19.54	18.81	20.14	19.31	20.62	21.16
	3H	18.92	20.06	19.44	20.58	21.14	21.51	22.65	22.03	23.17	23.73
	4H	19.53	20.57	20.06	21.10	21.69	22.90	23.94	23.43	24.47	25.06
	6H	19.93	20.84	20.48	21.40	22.01	24.37	25.29	24.92	25.85	26.45
	8H	20.02	20.88	20.58	21.44	22.06	25.14	26.01	25.70	26.57	27.19
	12H	20.06	20.85	20.65	21.44	22.06	26.02	26.80	26.60	27.39	28.01
8H	4H	20.22	21.08	20.78	21.64	22.26	23.11	23.97	23.67	24.54	25.16
	6H	20.80	21.53	21.39	22.13	22.76	24.75	25.48	25.34	26.09	26.71
	8H	20.98	21.64	21.58	22.25	22.89	25.67	26.33	26.27	26.94	27.58
	12H	21.09	21.68	21.70	22.29	22.99	26.73	27.32	27.33	27.92	28.62
12H	4H	20.42	21.20	21.00	21.79	22.42	23.12	23.90	23.70	24.49	25.12
	6H	21.10	21.76	21.70	22.37	23.01	24.79	25.45	25.39	26.06	26.70
	8H	21.38	21.97	21.98	22.57	23.27	25.77	26.36	26.38	26.97	27.67

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

Report Prepared for

Cooper Lighting Solutions

Fail-Safe

Report Number: SP1-2511-597-7

Test Date: 01/21/2026

Luminaire Tested: 4ASL-2-R630-UNV-OPL-1_600mA

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

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2511-597-7
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 01/29/2026
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Fail-Safe
 Catalog Number: **4ASL-2-R630-UNV-OPL-1_600mA**
 Description: 2foot 4ASL LED LUMINAIRE WITH OPL LENS AND RED 630NM LEDs with 1 rows at 600mA

Spectral Parameters

CCT (K): 0
 CIE u': 0.5395
 CIE v': 0.5190
 Duv: 0.0000
 CIE x: 0.7004
 CIE y: 0.2995
 CIE z: 0.0001
 Peak Wavelength (nm): 638
 Dominant Wavelength (nm): 624
 Purity: 99.9862
 Rf: NR
 Rg: NR

CRI (Ra): 0.0
 R1: 0.0
 R2: 0.0
 R3: 0.0
 R4: 0.0
 R5: 0.0
 R6: 0.0
 R7: 0.0
 R8: 0.0
 R9: 0.0
 R10: 0.0
 R11: 0.0
 R12: 0.0
 R13: 0.0
 R14: 0.0
 R15: 0.0



Test Conditions

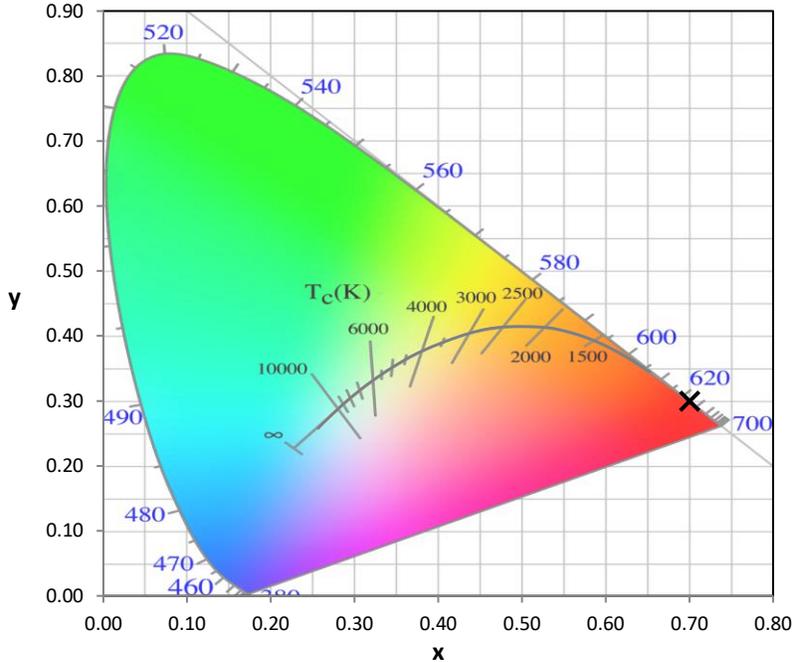
Stabilization Time: 69M
 Operation Time: 2H 9M
 Sphere Temperature (°C): 25.1

REPORT NUMBER: SP1-2511-597-7

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
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: SP1-2511-597-7

CIE 1931 Chromaticity Diagram



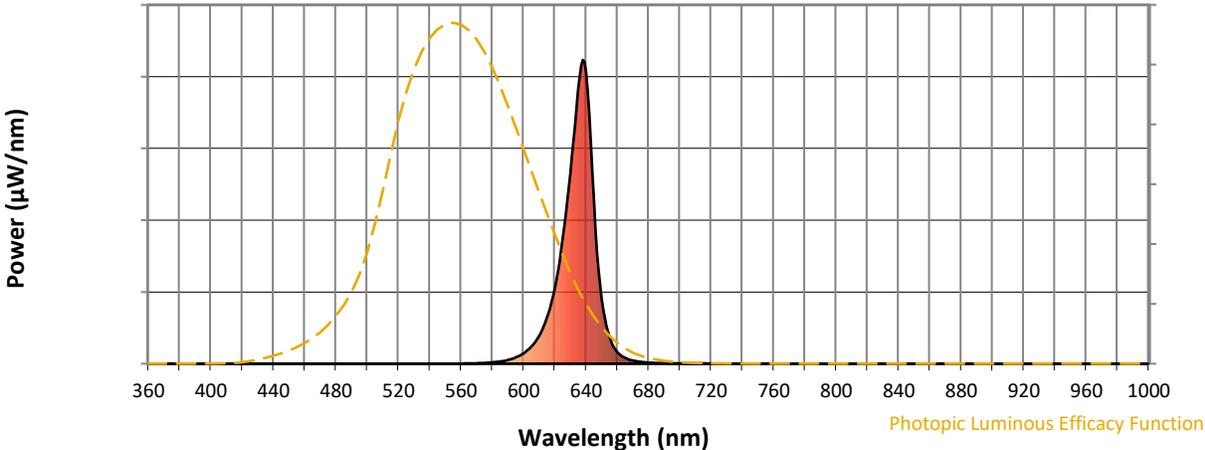
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies outside the range

REPORT NUMBER: SP1-2511-597-7

Photopic Flux vs. Wavelength

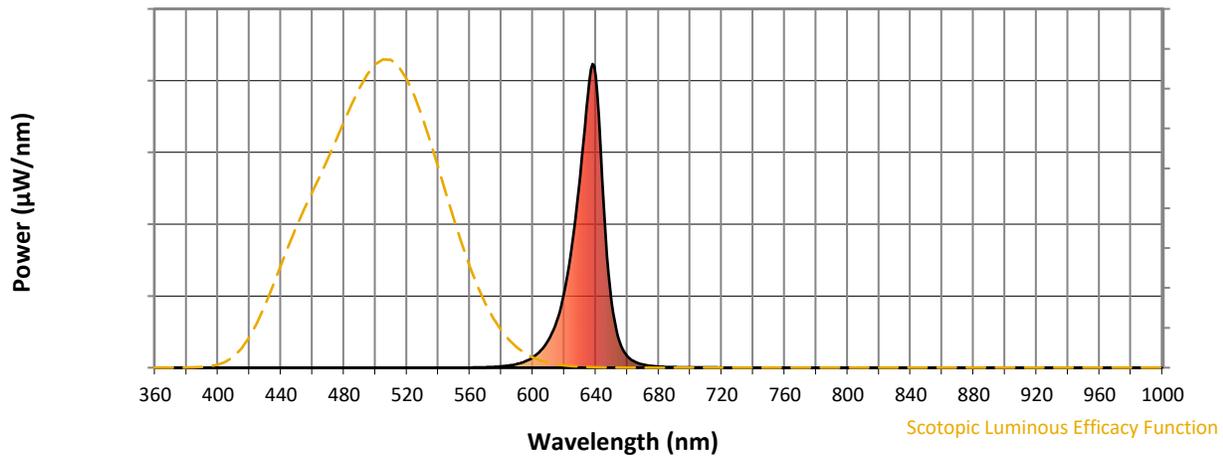


Photopic Lumens: NR

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	0	NR	620	248	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	409	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	630	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	903	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	960	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	535	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	212	NR	780	0	NR	910	0	NR
395	0	NR	525	0	NR	655	88	NR	785	0	NR	915	0	NR
400	0	NR	530	0	NR	660	38	NR	790	0	NR	920	0	NR
405	0	NR	535	0	NR	665	19	NR	795	0	NR	925	0	NR
410	0	NR	540	0	NR	670	10	NR	800	0	NR	930	0	NR
415	0	NR	545	0	NR	675	6	NR	805	0	NR	935	0	NR
420	0	NR	550	0	NR	680	4	NR	810	0	NR	940	0	NR
425	0	NR	555	0	NR	685	2	NR	815	0	NR	945	0	NR
430	0	NR	560	0	NR	690	2	NR	820	0	NR	950	0	NR
435	0	NR	565	1	NR	695	1	NR	825	0	NR	955	0	NR
440	0	NR	570	2	NR	700	1	NR	830	0	NR	960	0	NR
445	0	NR	575	3	NR	705	1	NR	835	0	NR	965	0	NR
450	0	NR	580	4	NR	710	1	NR	840	0	NR	970	0	NR
455	0	NR	585	7	NR	715	1	NR	845	0	NR	975	0	NR
460	0	NR	590	12	NR	720	1	NR	850	0	NR	980	0	NR
465	0	NR	595	20	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	34	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	56	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	92	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	152	NR	745	0	NR	875	0	NR			

REPORT NUMBER: SP1-2511-597-7

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 0.05

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	0	NR	620	248	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	409	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	630	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	903	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	960	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	535	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	212	NR	780	0	NR	910	0	NR
395	0	NR	525	0	NR	655	88	NR	785	0	NR	915	0	NR
400	0	NR	530	0	NR	660	38	NR	790	0	NR	920	0	NR
405	0	NR	535	0	NR	665	19	NR	795	0	NR	925	0	NR
410	0	NR	540	0	NR	670	10	NR	800	0	NR	930	0	NR
415	0	NR	545	0	NR	675	6	NR	805	0	NR	935	0	NR
420	0	NR	550	0	NR	680	4	NR	810	0	NR	940	0	NR
425	0	NR	555	0	NR	685	2	NR	815	0	NR	945	0	NR
430	0	NR	560	0	NR	690	2	NR	820	0	NR	950	0	NR
435	0	NR	565	1	NR	695	1	NR	825	0	NR	955	0	NR
440	0	NR	570	2	NR	700	1	NR	830	0	NR	960	0	NR
445	0	NR	575	3	NR	705	1	NR	835	0	NR	965	0	NR
450	0	NR	580	4	NR	710	1	NR	840	0	NR	970	0	NR
455	0	NR	585	7	NR	715	1	NR	845	0	NR	975	0	NR
460	0	NR	590	12	NR	720	1	NR	850	0	NR	980	0	NR
465	0	NR	595	20	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	34	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	56	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	92	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	152	NR	745	0	NR	875	0	NR			

REPORT NUMBER: SP1-2511-597-7

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 0.02

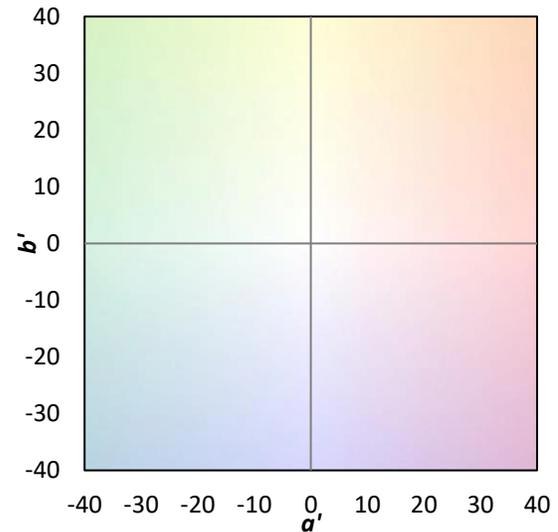
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	0	NR	620	248	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	409	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	630	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	903	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	960	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	535	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	212	NR	780	0	NR	910	0	NR
395	0	NR	525	0	NR	655	88	NR	785	0	NR	915	0	NR
400	0	NR	530	0	NR	660	38	NR	790	0	NR	920	0	NR
405	0	NR	535	0	NR	665	19	NR	795	0	NR	925	0	NR
410	0	NR	540	0	NR	670	10	NR	800	0	NR	930	0	NR
415	0	NR	545	0	NR	675	6	NR	805	0	NR	935	0	NR
420	0	NR	550	0	NR	680	4	NR	810	0	NR	940	0	NR
425	0	NR	555	0	NR	685	2	NR	815	0	NR	945	0	NR
430	0	NR	560	0	NR	690	2	NR	820	0	NR	950	0	NR
435	0	NR	565	1	NR	695	1	NR	825	0	NR	955	0	NR
440	0	NR	570	2	NR	700	1	NR	830	0	NR	960	0	NR
445	0	NR	575	3	NR	705	1	NR	835	0	NR	965	0	NR
450	0	NR	580	4	NR	710	1	NR	840	0	NR	970	0	NR
455	0	NR	585	7	NR	715	1	NR	845	0	NR	975	0	NR
460	0	NR	590	12	NR	720	1	NR	850	0	NR	980	0	NR
465	0	NR	595	20	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	34	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	56	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	92	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	152	NR	745	0	NR	875	0	NR			

Summary

$R_f = 0$
 $R_g = 0$
 CIE $R_a = 0.0$
 $R_9 = 0.0$



Color Vector Graphics



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

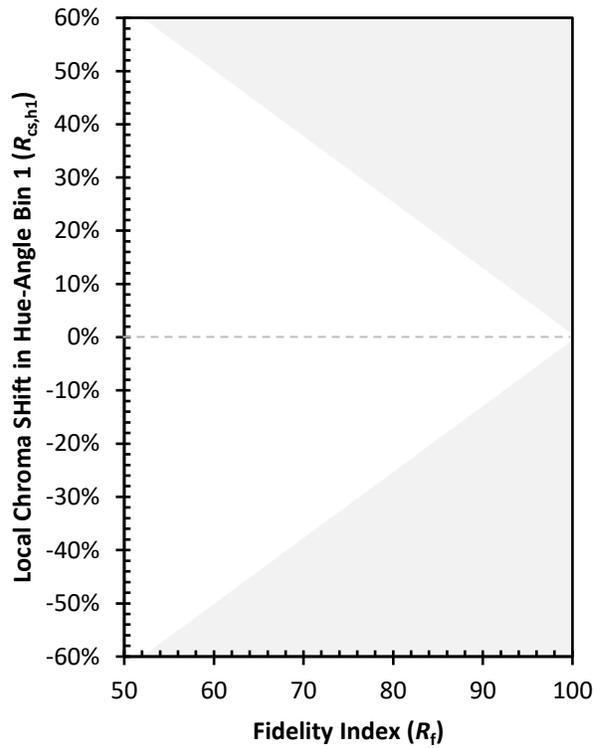
CES01 = 0	CES26 = 0	CES51 = 0	CES76 = 0
CES02 = 0	CES27 = 0	CES52 = 0	CES77 = 0
CES03 = 0	CES28 = 0	CES53 = 0	CES78 = 0
CES04 = 0	CES29 = 0	CES54 = 0	CES79 = 0
CES05 = 0	CES30 = 0	CES55 = 0	CES80 = 0
CES06 = 0	CES31 = 0	CES56 = 0	CES81 = 0
CES07 = 0	CES32 = 0	CES57 = 0	CES82 = 0
CES08 = 0	CES33 = 0	CES58 = 0	CES83 = 0
CES09 = 0	CES34 = 0	CES59 = 0	CES84 = 0
CES10 = 0	CES35 = 0	CES60 = 0	CES85 = 0
CES11 = 0	CES36 = 0	CES61 = 0	CES86 = 0
CES12 = 0	CES37 = 0	CES62 = 0	CES87 = 0
CES13 = 0	CES38 = 0	CES63 = 0	CES88 = 0
CES14 = 0	CES39 = 0	CES64 = 0	CES89 = 0
CES15 = 0	CES40 = 0	CES65 = 0	CES90 = 0
CES16 = 0	CES41 = 0	CES66 = 0	CES91 = 0
CES17 = 0	CES42 = 0	CES67 = 0	CES92 = 0
CES18 = 0	CES43 = 0	CES68 = 0	CES93 = 0
CES19 = 0	CES44 = 0	CES69 = 0	CES94 = 0
CES20 = 0	CES45 = 0	CES70 = 0	CES95 = 0
CES21 = 0	CES46 = 0	CES71 = 0	CES96 = 0
CES22 = 0	CES47 = 0	CES72 = 0	CES97 = 0
CES23 = 0	CES48 = 0	CES73 = 0	CES98 = 0
CES24 = 0	CES49 = 0	CES74 = 0	CES99 = 0
CES25 = 0	CES50 = 0	CES75 = 0	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)