

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: P1357365

Luminaire Tested: 6ASL4-30VHE-3-R63-UNV

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357365
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-R63-UNV
Description: 6FT 3000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND R63 LEDS 3 ROW
Light Source: -
Ballast/Driver: -

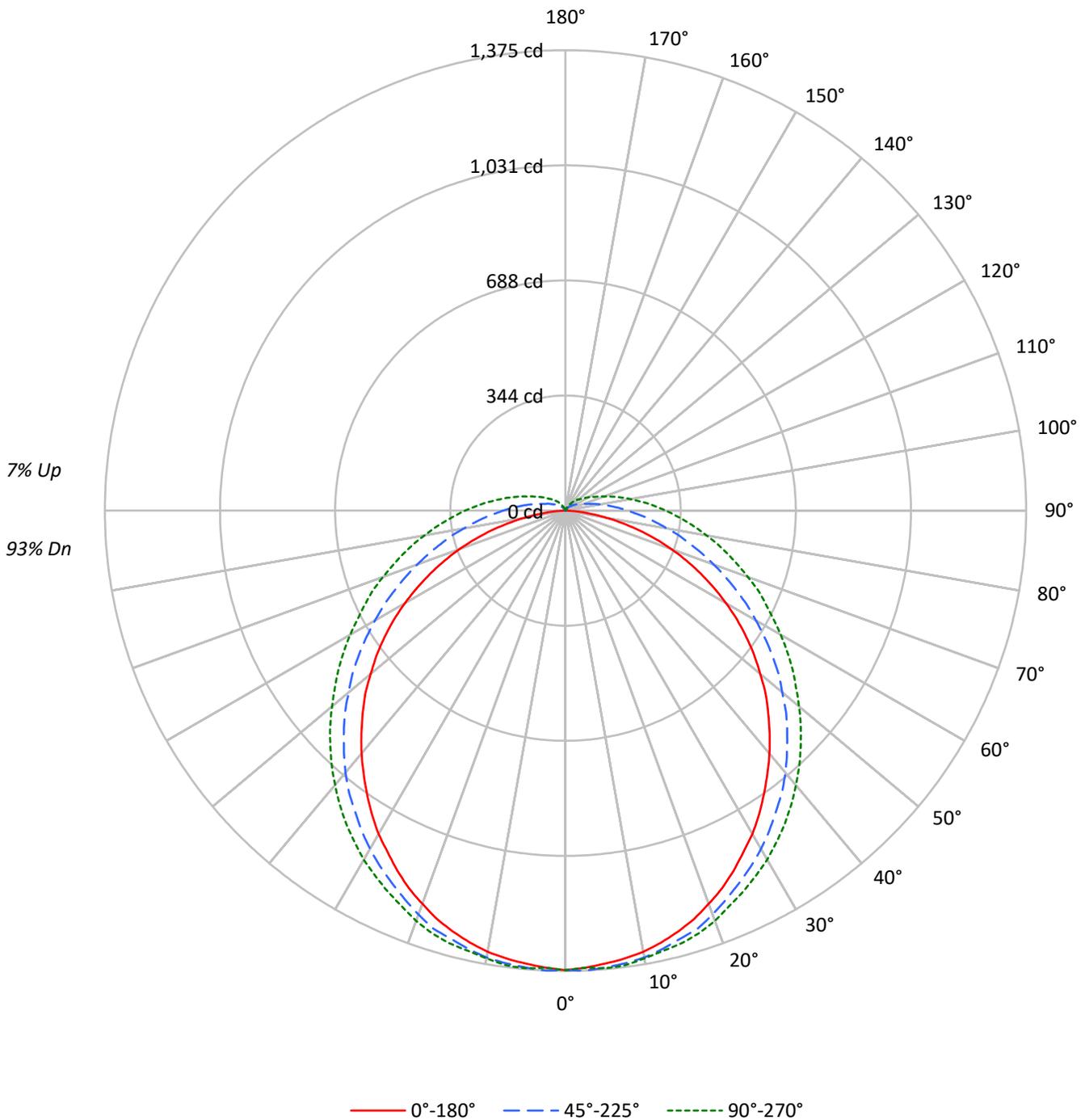
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4666.0 lumens
Efficiency: N/A
Efficacy: 39.9 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): 116.8
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: P1357365
CATALOG NUMBER: 6ASL4-30VHE-3-R63-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P1357365
 CATALOG NUMBER: 6ASL4-30VHE-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°	7411	7411	7411
5°	7352	7276	7242
10°	7316	7138	7059
15°	7240	6966	6904
20°	7137	6802	6729
25°	7016	6593	6530
30°	6888	6413	6361
35°	6727	6209	6173
40°	6582	6022	5976
45°	6425	5795	5778
50°	6247	5552	5572
55°	6055	5320	5387
60°	5804	5048	5199
65°	5483	4788	5043
70°	5074	4530	4921
75°	4471	4297	4837
80°	3552	4125	4802
85°	2212	4098	4873

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6425 cd/sqm



TEST NUMBER: P1357365
 CATALOG NUMBER: 6ASL4-30VHE-3-R63-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	2.8
10°-20°	373.6	8.0
20°-30°	564.9	12.1
30°-40°	684.0	14.7
40°-50°	718.4	15.4
50°-60°	670.3	14.4
60°-70°	553.9	11.9
70°-80°	398.8	8.5
80°-90°	247.8	5.3
90°-100°	145.2	3.1
100°-110°	83.1	1.8
110°-120°	46.9	1.0
120°-130°	27.0	0.6
130°-140°	14.5	0.3
140°-150°	6.1	0.1
150°-160°	1.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1068.7	22.9
0°-40°	1752.7	37.6
0°-60°	3141.4	67.3
0°-90°	4342.0	93.1
90°-120°	275.2	5.9
90°-150°	322.9	6.9
90°-180°	324.0	6.9
0°-180°	4666.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1372	1372	1372	1372	1372	
5°	1358	1370	1370	1370	1372	129
15°	1301	1318	1324	1332	1338	367
25°	1187	1207	1227	1244	1255	547
35°	1033	1061	1096	1127	1141	647
45°	856	887	936	976	993	660
55°	659	696	753	807	827	589
65°	445	488	562	633	659	440
75°	228	285	385	468	502	241
85°	43	128	242	328	360	52
90°	0	77	186	265	300	2
95°	0	48	140	214	245	0
105°	0	17	77	134	157	0
115°	0	9	46	83	97	0
125°	0	6	28	54	63	0
135°	0	0	17	34	43	0
145°	0	0	9	20	23	0
155°	0	0	0	6	9	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P1357365

CATALOG NUMBER: 6ASL4-30VHE-3-R63-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1372.3	1372.3	1372.3	1372.3	1372.3
2.5°	1366.6	1375.2	1375.2	1366.6	1366.6
5°	1358.1	1369.5	1369.5	1369.5	1372.3
7.5°	1349.5	1363.8	1363.8	1363.8	1369.5
10°	1338.1	1352.4	1355.2	1355.2	1358.1
12.5°	1321.0	1338.1	1340.9	1343.8	1346.7
15°	1301.0	1318.1	1323.8	1332.4	1338.1
17.5°	1278.2	1298.2	1309.6	1318.1	1323.8
20°	1249.7	1269.6	1283.9	1295.3	1303.9
22.5°	1221.1	1238.2	1255.4	1269.6	1278.2
25°	1186.9	1206.9	1226.8	1243.9	1255.4
27.5°	1149.8	1172.6	1198.3	1218.3	1229.7
30°	1115.6	1138.4	1166.9	1192.6	1204.0
32.5°	1075.6	1101.3	1132.7	1158.4	1172.6
35°	1032.8	1061.3	1095.6	1127.0	1141.2
37.5°	990.0	1018.6	1061.3	1092.7	1107.0
40°	947.2	975.8	1021.4	1055.6	1069.9
42.5°	901.6	930.1	978.6	1015.7	1032.8
45°	855.9	887.3	935.8	975.8	992.9
47.5°	810.3	841.7	893.0	935.8	952.9
50°	758.9	793.2	844.5	893.0	910.1
52.5°	710.4	744.7	801.7	850.2	867.3
55°	659.1	696.2	753.2	807.4	827.4
57.5°	607.7	644.8	704.7	761.8	784.6
60°	553.5	593.4	656.2	716.1	741.8
62.5°	499.3	542.1	610.6	673.3	699.0
65°	445.1	487.9	562.1	633.4	659.1
67.5°	390.9	436.5	516.4	590.6	622.0
70°	336.7	385.2	470.8	547.8	579.2
72.5°	282.5	333.8	428.0	507.8	539.2
75°	228.2	285.3	385.2	467.9	502.1
77.5°	174.0	239.7	348.1	430.8	465.1
80°	125.5	199.7	308.1	393.7	428.0
82.5°	79.9	159.8	273.9	359.5	393.7
85°	42.8	128.4	242.5	328.1	359.5
87.5°	14.3	99.9	211.1	296.7	328.1
90°	0.0	77.0	185.5	265.3	299.6
92.5°	0.0	59.9	162.6	239.7	271.0
95°	0.0	48.5	139.8	214.0	245.4
97.5°	0.0	39.9	122.7	191.2	219.7
100°	0.0	31.4	105.6	171.2	196.9
102.5°	0.0	25.7	91.3	151.2	176.9
105°	0.0	17.1	77.0	134.1	156.9
107.5°	0.0	14.3	65.6	119.8	139.8
110°	0.0	11.4	59.9	102.7	122.7



TEST NUMBER: P1357365

CATALOG NUMBER: 6ASL4-30VHE-3-R63-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	8.6	54.2	91.3	111.3
115°	0.0	8.6	45.6	82.7	97.0
117.5°	0.0	8.6	39.9	74.2	88.4
120°	0.0	5.7	37.1	65.6	79.9
122.5°	0.0	5.7	31.4	59.9	71.3
125°	0.0	5.7	28.5	54.2	62.8
127.5°	0.0	2.9	25.7	48.5	57.1
130°	0.0	2.9	22.8	42.8	51.4
132.5°	0.0	2.9	20.0	39.9	48.5
135°	0.0	0.0	17.1	34.2	42.8
137.5°	0.0	0.0	14.3	31.4	37.1
140°	0.0	0.0	11.4	25.7	34.2
142.5°	0.0	0.0	8.6	22.8	28.5
145°	0.0	0.0	8.6	20.0	22.8
147.5°	0.0	0.0	5.7	14.3	20.0
150°	0.0	0.0	2.9	11.4	14.3
152.5°	0.0	0.0	0.0	8.6	11.4
155°	0.0	0.0	0.0	5.7	8.6
157.5°	0.0	0.0	0.0	0.0	2.9
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: P1357365
 CATALOG NUMBER: 6ASL4-30VHE-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	18.36	19.90	18.83	20.35	20.84
	3H	17.80	19.20	18.28	19.67	20.19	20.83	22.24	21.31	22.70	23.23
	4H	18.28	19.61	18.78	20.09	20.63	22.04	23.37	22.54	23.85	24.39
	6H	18.55	19.79	19.07	20.29	20.84	23.31	24.55	23.83	25.05	25.60
	8H	18.61	19.79	19.13	20.31	20.87	23.97	25.16	24.50	25.68	26.24
	12H	18.62	19.76	19.15	20.27	20.86	24.71	25.85	25.24	26.36	26.95
4H	2H	17.18	18.52	17.69	19.00	19.54	18.79	20.12	19.29	20.60	21.14
	3H	18.92	20.05	19.43	20.58	21.14	21.49	22.63	22.01	23.15	23.71
	4H	19.52	20.56	20.06	21.10	21.69	22.87	23.91	23.41	24.44	25.04
	6H	19.92	20.84	20.48	21.40	22.01	24.33	25.25	24.89	25.81	26.42
	8H	20.01	20.88	20.58	21.44	22.06	25.10	25.96	25.66	26.52	27.14
	12H	20.06	20.84	20.64	21.43	22.06	25.96	26.74	26.54	27.33	27.96
8H	4H	20.21	21.07	20.77	21.64	22.26	23.09	23.95	23.65	24.51	25.13
	6H	20.79	21.52	21.38	22.13	22.75	24.72	25.45	25.31	26.05	26.68
	8H	20.97	21.63	21.58	22.25	22.88	25.62	26.29	26.23	26.90	27.54
	12H	21.09	21.68	21.69	22.28	22.98	26.67	27.26	27.28	27.86	28.57
12H	4H	20.41	21.19	20.99	21.78	22.41	23.09	23.88	23.68	24.47	25.09
	6H	21.09	21.75	21.69	22.36	23.00	24.75	25.41	25.36	26.03	26.67
	8H	21.37	21.96	21.97	22.56	23.26	25.73	26.32	26.34	26.92	27.63

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



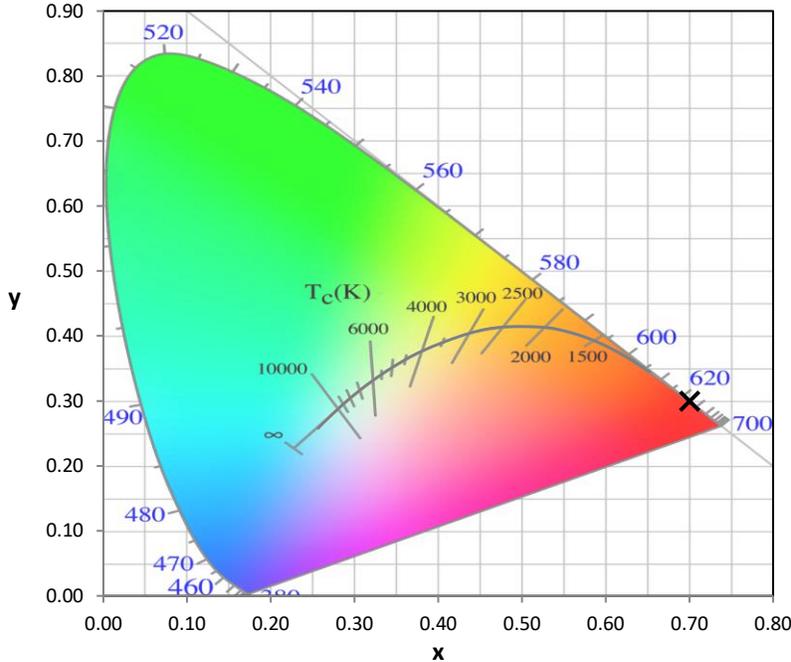
Test Conditions
 Stabilization Time: 69M
 Operation Time: 2H 9M
 Sphere Temperature (°C): 25.1

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

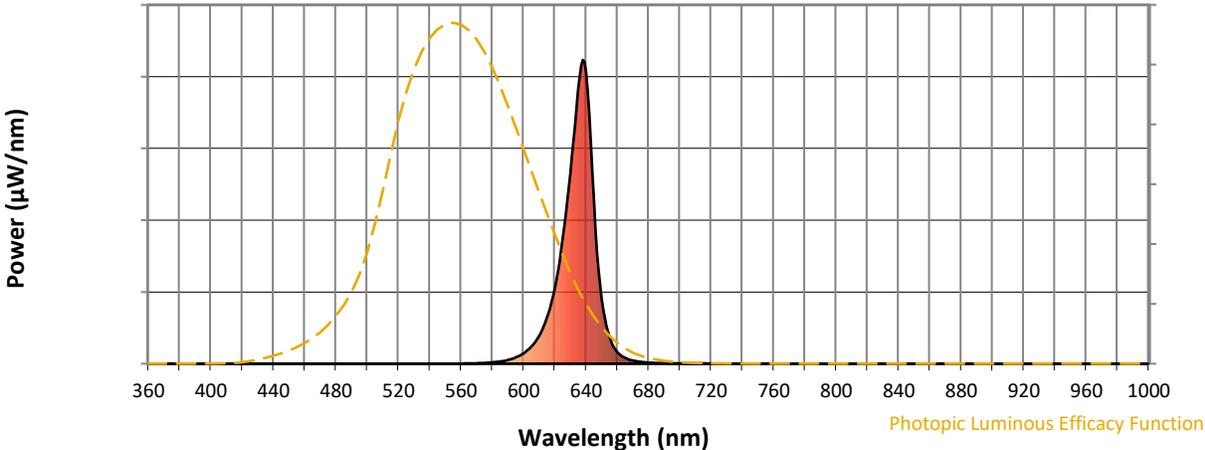


CCT = 0K
 CIE x = 0.7004
 CIE y = 0.2995
 Duv = 0.0000

Point lies outside the range

REPORT NUMBER: SP1-2511-597-7

Photopic Flux vs. Wavelength

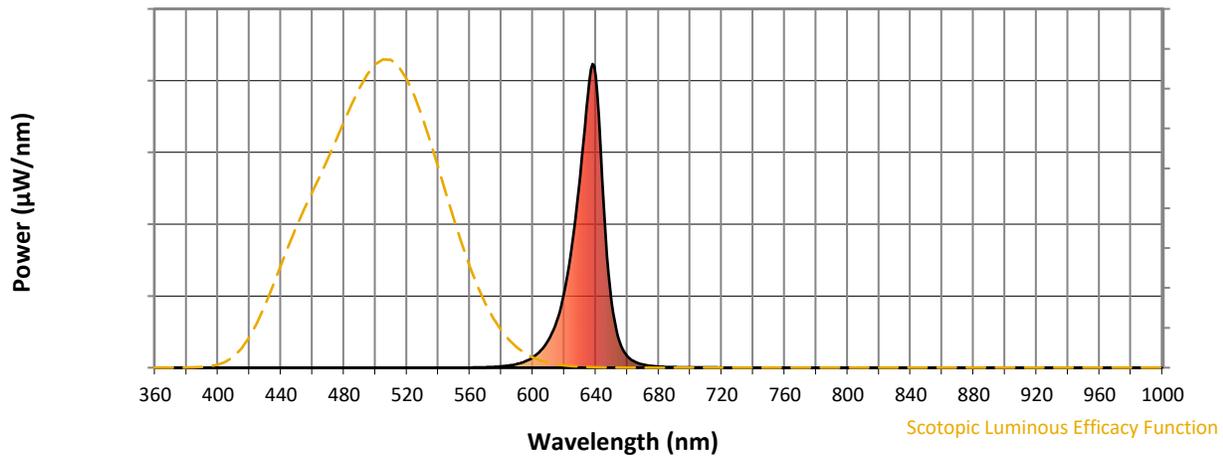


Photopic Lumens: NR

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

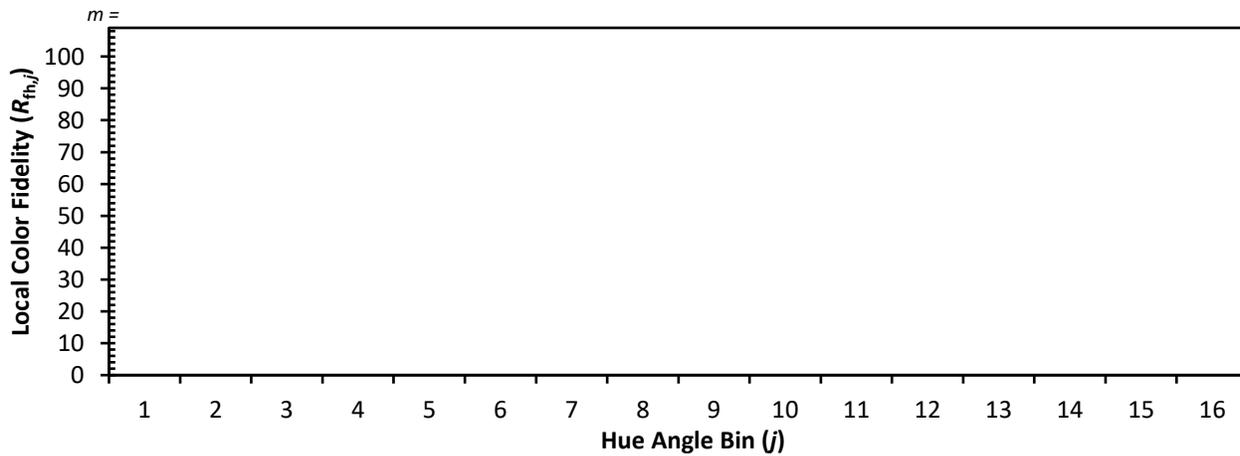


Individual Sample Fidelity Index ($R_{f,i}$)

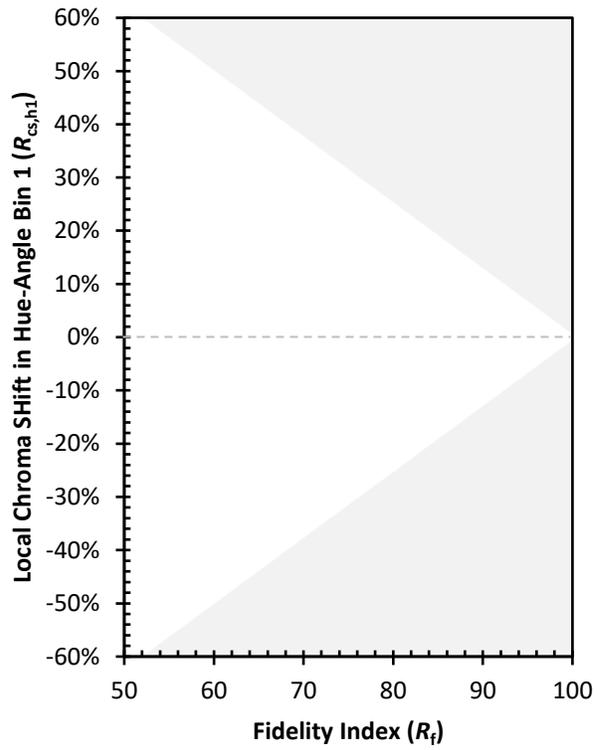
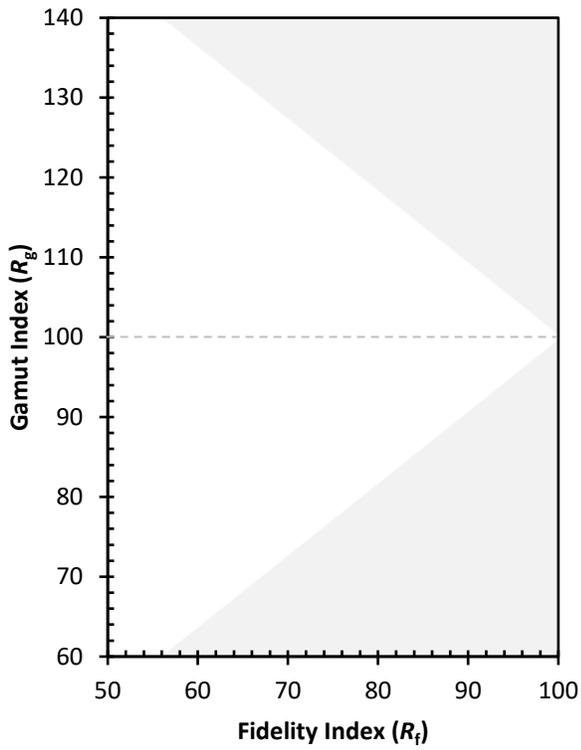
CES01 = 0	CES26 = 0	CES51 = 0	CES76 = 0
CES02 = 0	CES27 = 0	CES52 = 0	CES77 = 0
CES03 = 0	CES28 = 0	CES53 = 0	CES78 = 0
CES04 = 0	CES29 = 0	CES54 = 0	CES79 = 0
CES05 = 0	CES30 = 0	CES55 = 0	CES80 = 0
CES06 = 0	CES31 = 0	CES56 = 0	CES81 = 0
CES07 = 0	CES32 = 0	CES57 = 0	CES82 = 0
CES08 = 0	CES33 = 0	CES58 = 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)