

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: P1357319

Luminaire Tested: 6ASL4-15HE-2-G52-UNV

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357319
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: 6ASL4-15HE-2-G52-UNV
Description: 6FT 1500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND G52 LEDS 2 ROW
Light Source: -
Ballast/Driver: -

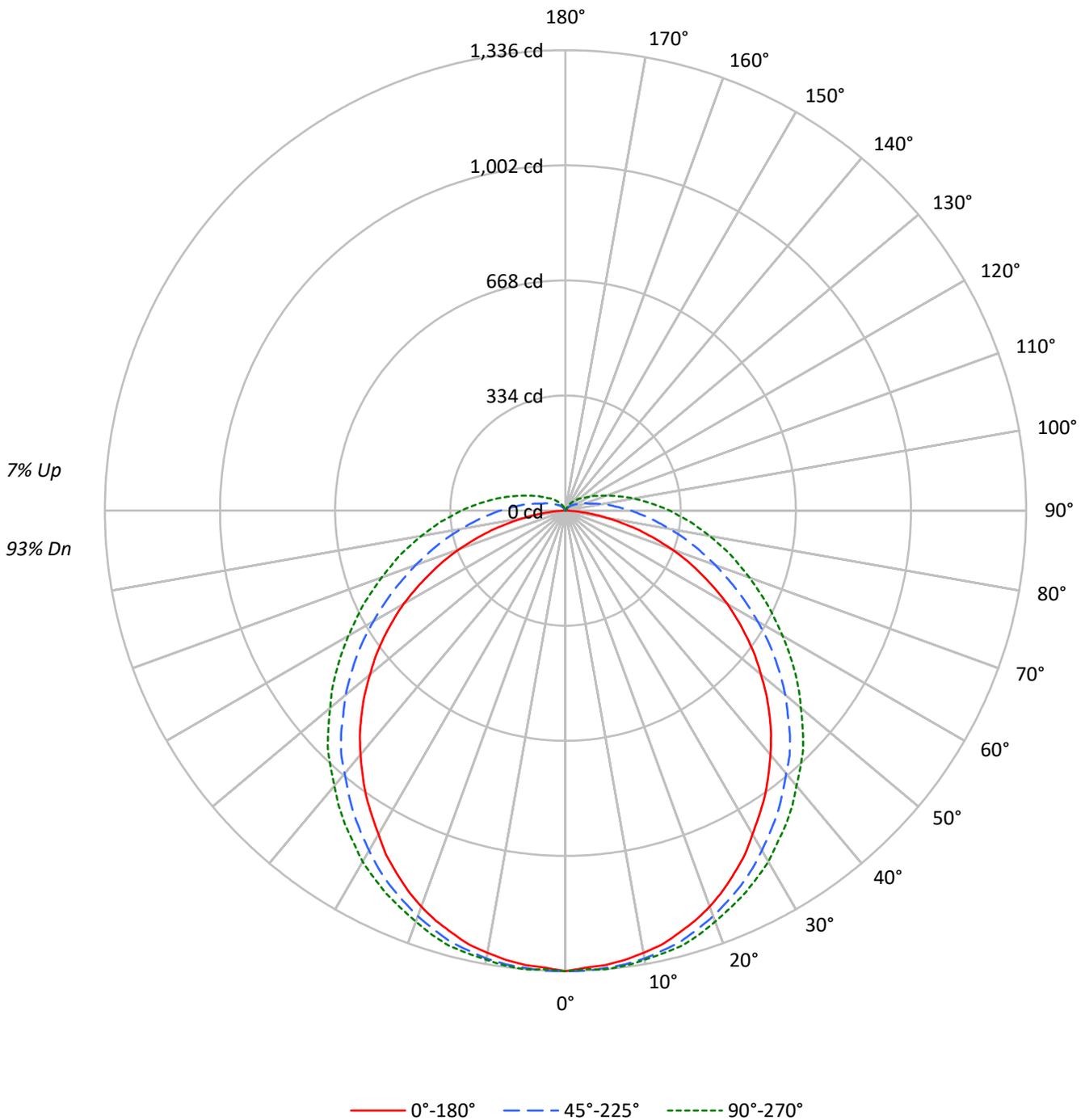
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4588.0 lumens
Efficiency: N/A
Efficacy: 51.1 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): 89.8
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: P1357319
CATALOG NUMBER: 6ASL4-15HE-2-G52-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P1357319
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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	0
RCR																					
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	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	77	74
2	95	86	79	72	92	84	77	71	79	73	68	74	70	65	70	66	63	63	63	63	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	55	62	57	53	53	53	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	45	45	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	39	39	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	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	34	29	41	33	28	39	32	28	37	31	27	27	27	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	29	24	24	24	24	22
10	50	37	29	24	49	36	28	23	35	28	23	33	27	22	32	26	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7218	7218	7218
5°	7166	7078	7052
10°	7123	6951	6881
15°	7063	6812	6743
20°	6985	6635	6550
25°	6856	6460	6383
30°	6695	6259	6217
35°	6570	6074	6024
40°	6425	5872	5822
45°	6278	5700	5674
50°	6089	5470	5455
55°	5907	5224	5281
60°	5684	4947	5096
65°	5333	4689	4952
70°	4940	4449	4821
75°	4363	4266	4777
80°	3450	4108	4762
85°	2170	4120	4898

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6278 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.7	2.8
10°-20°	364.3	7.9
20°-30°	552.0	12.0
30°-40°	667.7	14.6
40°-50°	703.9	15.3
50°-60°	657.0	14.3
60°-70°	542.4	11.8
70°-80°	393.5	8.6
80°-90°	248.6	5.4
90°-100°	148.4	3.2
100°-110°	85.1	1.9
110°-120°	48.3	1.1
120°-130°	27.5	0.6
130°-140°	14.9	0.3
140°-150°	6.5	0.1
150°-160°	1.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1043.1	22.7
0°-40°	1710.8	37.3
0°-60°	3071.6	66.9
0°-90°	4256.0	92.8
90°-120°	281.8	6.1
90°-150°	330.7	7.2
90°-180°	332.0	7.2
0°-180°	4588.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1336	1336	1336	1336	1336	
5°	1324	1336	1332	1332	1336	126
15°	1269	1286	1294	1299	1307	358
25°	1160	1177	1202	1219	1227	534
35°	1009	1034	1072	1101	1114	630
45°	836	870	920	958	975	645
55°	643	681	740	790	811	575
65°	433	479	550	618	647	430
75°	223	282	382	462	496	234
85°	42	130	244	328	361	51
90°	0	80	189	269	303	2
95°	0	50	143	218	248	0
105°	0	17	80	139	160	0
115°	0	8	46	84	101	0
125°	0	4	29	55	63	0
135°	0	0	17	34	42	0
145°	0	0	8	21	25	0
155°	0	0	0	4	8	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°	1336.4	1336.4	1336.4	1336.4	1336.4
2.5°	1328.0	1340.6	1336.4	1332.2	1332.2
5°	1323.8	1336.4	1332.2	1332.2	1336.4
7.5°	1315.4	1328.0	1328.0	1328.0	1332.2
10°	1302.8	1319.6	1319.6	1319.6	1323.8
12.5°	1290.2	1302.8	1307.0	1311.2	1315.4
15°	1269.2	1286.0	1294.4	1298.6	1307.0
17.5°	1248.2	1260.8	1273.4	1286.0	1290.2
20°	1223.0	1239.8	1252.4	1265.0	1269.2
22.5°	1193.5	1210.4	1227.2	1239.8	1248.2
25°	1159.9	1176.7	1202.0	1218.8	1227.2
27.5°	1126.3	1143.1	1172.5	1193.5	1202.0
30°	1084.3	1109.5	1138.9	1164.1	1176.7
32.5°	1046.5	1071.7	1105.3	1134.7	1143.1
35°	1008.6	1033.8	1071.7	1101.1	1113.7
37.5°	966.6	996.0	1033.8	1067.5	1080.1
40°	924.6	954.0	996.0	1033.8	1042.3
42.5°	882.6	912.0	962.4	996.0	1008.6
45°	836.3	869.9	920.4	958.2	975.0
47.5°	790.1	823.7	874.1	916.2	933.0
50°	739.7	777.5	832.1	874.1	891.0
52.5°	693.4	731.3	785.9	832.1	853.1
55°	643.0	680.8	739.7	790.1	811.1
57.5°	592.6	630.4	693.4	748.1	769.1
60°	542.1	580.0	643.0	706.0	727.1
62.5°	487.5	529.5	596.8	659.8	685.0
65°	432.9	479.1	550.5	617.8	647.2
67.5°	382.4	428.7	504.3	580.0	605.2
70°	327.8	378.2	462.3	537.9	567.4
72.5°	273.2	327.8	420.3	500.1	529.5
75°	222.7	281.6	382.4	462.3	495.9
77.5°	168.1	239.6	344.6	428.7	458.1
80°	121.9	197.5	306.8	395.0	424.5
82.5°	79.9	159.7	273.2	361.4	390.8
85°	42.0	130.3	243.8	327.8	361.4
87.5°	12.6	100.9	214.3	298.4	327.8
90°	0.0	79.9	189.1	269.0	302.6
92.5°	0.0	63.0	163.9	243.8	273.2
95°	0.0	50.4	142.9	218.5	248.0
97.5°	0.0	42.0	126.1	197.5	222.7
100°	0.0	33.6	109.3	176.5	201.7
102.5°	0.0	25.2	92.5	155.5	180.7
105°	0.0	16.8	79.9	138.7	159.7
107.5°	0.0	12.6	67.2	121.9	142.9
110°	0.0	12.6	63.0	105.1	126.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	8.4	54.6	96.7	113.5
115°	0.0	8.4	46.2	84.1	100.9
117.5°	0.0	8.4	42.0	75.6	92.5
120°	0.0	8.4	37.8	67.2	79.9
122.5°	0.0	4.2	33.6	58.8	71.4
125°	0.0	4.2	29.4	54.6	63.0
127.5°	0.0	4.2	25.2	50.4	58.8
130°	0.0	4.2	25.2	46.2	54.6
132.5°	0.0	0.0	21.0	42.0	50.4
135°	0.0	0.0	16.8	33.6	42.0
137.5°	0.0	0.0	16.8	29.4	37.8
140°	0.0	0.0	12.6	29.4	33.6
142.5°	0.0	0.0	8.4	25.2	29.4
145°	0.0	0.0	8.4	21.0	25.2
147.5°	0.0	0.0	4.2	16.8	21.0
150°	0.0	0.0	4.2	12.6	16.8
152.5°	0.0	0.0	0.0	8.4	12.6
155°	0.0	0.0	0.0	4.2	8.4
157.5°	0.0	0.0	0.0	0.0	4.2
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	16.19	17.72	16.66	18.19	18.68	18.28	19.81	18.75	20.27	20.76
	3H	17.69	19.09	18.18	19.56	20.09	20.74	22.14	21.23	22.61	23.14
	4H	18.17	19.50	18.68	19.99	20.53	21.96	23.29	22.47	23.78	24.32
	6H	18.45	19.68	18.96	20.18	20.74	23.25	24.49	23.77	24.99	25.55
	8H	18.50	19.68	19.03	20.21	20.78	23.93	25.11	24.46	25.64	26.20
	12H	18.51	19.65	19.05	20.17	20.77	24.68	25.82	25.22	26.33	26.93
4H	2H	17.07	18.40	17.58	18.89	19.43	18.71	20.03	19.21	20.52	21.07
	3H	18.82	19.95	19.34	20.48	21.05	21.40	22.53	21.92	23.06	23.63
	4H	19.43	20.46	19.96	21.00	21.60	22.79	23.83	23.33	24.37	24.97
	6H	19.83	20.74	20.38	21.31	21.92	24.28	25.20	24.84	25.76	26.38
	8H	19.92	20.79	20.49	21.35	21.98	25.06	25.93	25.63	26.49	27.12
	12H	19.97	20.75	20.56	21.35	21.98	25.94	26.73	26.53	27.32	27.95
8H	4H	20.13	20.99	20.69	21.56	22.18	23.01	23.88	23.58	24.44	25.07
	6H	20.71	21.44	21.31	22.05	22.68	24.68	25.41	25.27	26.02	26.65
	8H	20.90	21.56	21.51	22.18	22.82	25.60	26.26	26.21	26.88	27.52
	12H	21.02	21.61	21.63	22.22	22.93	26.67	27.26	27.28	27.86	28.57
12H	4H	20.33	21.11	20.92	21.71	22.34	23.02	23.81	23.61	24.40	25.03
	6H	21.02	21.68	21.63	22.30	22.95	24.71	25.37	25.32	25.99	26.64
	8H	21.31	21.90	21.92	22.51	23.22	25.71	26.30	26.32	26.91	27.62

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

Report Prepared for

Cooper Lighting Solutions

Fail-Safe

Report Number: SP1-2511-597-8

Test Date: 01/22/2026

Luminaire Tested: 4ASL-2-G520-UNV-OPL-1_600mA

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

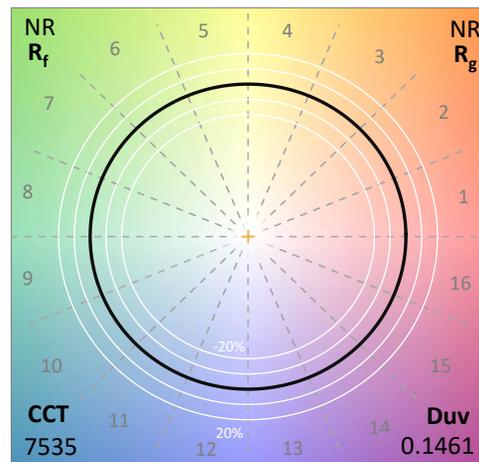
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2511-597-8
 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-G520-UNV-OPL-1_600mA**
 Description: 2foot 4ASL LED LUMINAIRE WITH OPL LENS AND GREEN 520NM LEDS with 1 rows at 600mA

Spectral Parameters

CCT (K): 7535
 CIE u': 0.0718
 CIE v': 0.5710
 Duv: 0.1461
 CIE x: 0.1962
 CIE y: 0.6931
 CIE z: 0.1107
 Peak Wavelength (nm): 524
 Dominant Wavelength (nm): 529
 Purity: 75.95236
 Rf: NR
 Rg: NR

CRI (Ra):	-11.7		
R1:	-30.6	R9:	-351.9
R2:	5.1	R10:	-75.5
R3:	5.6	R11:	-78.0
R4:	-51.7	R12:	-14.7
R5:	-6.4	R13:	-32.5
R6:	-0.6	R14:	52.7
R7:	10.9	R15:	-37.0
R8:	-25.8		



Test Conditions

Stabilization Time: 48M
 Operation Time: 1H 48M
 Sphere Temperature (°C): 25.1

REPORT NUMBER: SP1-2511-597-8

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

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CIE 1931 Chromaticity Diagram



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

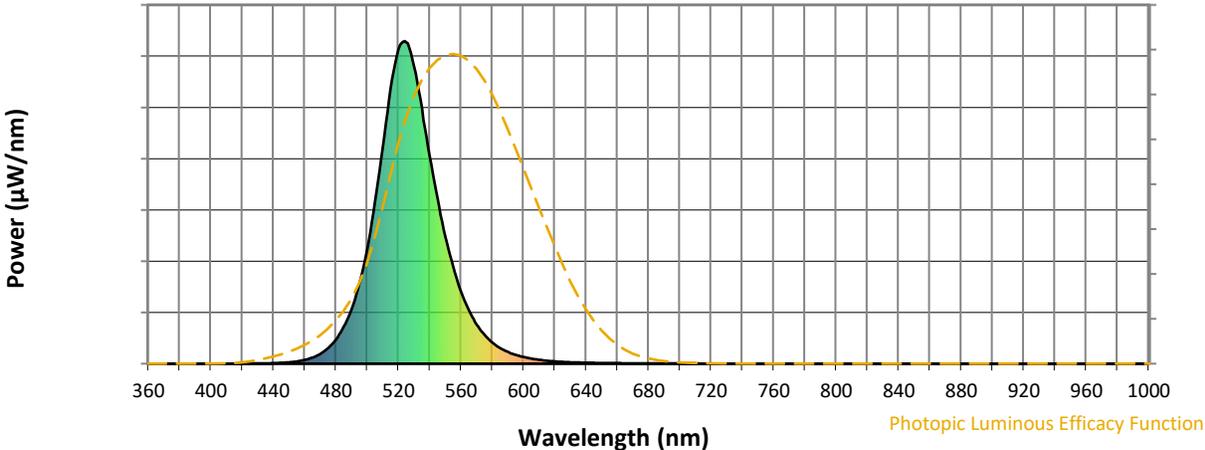


CCT = 7535K
 CIE x = 0.1962
 CIE y = 0.6931
 Duv = 0.1461

Point lies outside the range

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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	169	NR	620	7	NR	750	0	NR	880	0	NR
365	0	NR	495	249	NR	625	6	NR	755	0	NR	885	0	NR
370	0	NR	500	356	NR	630	4	NR	760	0	NR	890	0	NR
375	0	NR	505	502	NR	635	4	NR	765	0	NR	895	0	NR
380	0	NR	510	674	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	853	NR	645	3	NR	775	0	NR	905	0	NR
390	0	NR	520	976	NR	650	2	NR	780	0	NR	910	0	NR
395	0	NR	525	996	NR	655	2	NR	785	0	NR	915	0	NR
400	0	NR	530	920	NR	660	2	NR	790	0	NR	920	0	NR
405	0	NR	535	792	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	642	NR	670	1	NR	800	0	NR	930	0	NR
415	0	NR	545	511	NR	675	1	NR	805	0	NR	935	0	NR
420	0	NR	550	394	NR	680	1	NR	810	0	NR	940	0	NR
425	1	NR	555	300	NR	685	1	NR	815	0	NR	945	0	NR
430	1	NR	560	224	NR	690	1	NR	820	0	NR	950	0	NR
435	1	NR	565	166	NR	695	1	NR	825	0	NR	955	0	NR
440	2	NR	570	122	NR	700	1	NR	830	0	NR	960	0	NR
445	3	NR	575	90	NR	705	1	NR	835	0	NR	965	0	NR
450	4	NR	580	66	NR	710	1	NR	840	0	NR	970	0	NR
455	7	NR	585	48	NR	715	0	NR	845	0	NR	975	0	NR
460	12	NR	590	36	NR	720	0	NR	850	0	NR	980	0	NR
465	19	NR	595	27	NR	725	0	NR	855	0	NR	985	0	NR
470	31	NR	600	21	NR	730	0	NR	860	0	NR	990	0	NR
475	49	NR	605	16	NR	735	0	NR	865	0	NR	995	0	NR
480	75	NR	610	12	NR	740	0	NR	870	0	NR	1000	0	NR
485	115	NR	615	9	NR	745	0	NR	875	0	NR			

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Scotopic Flux vs. Wavelength



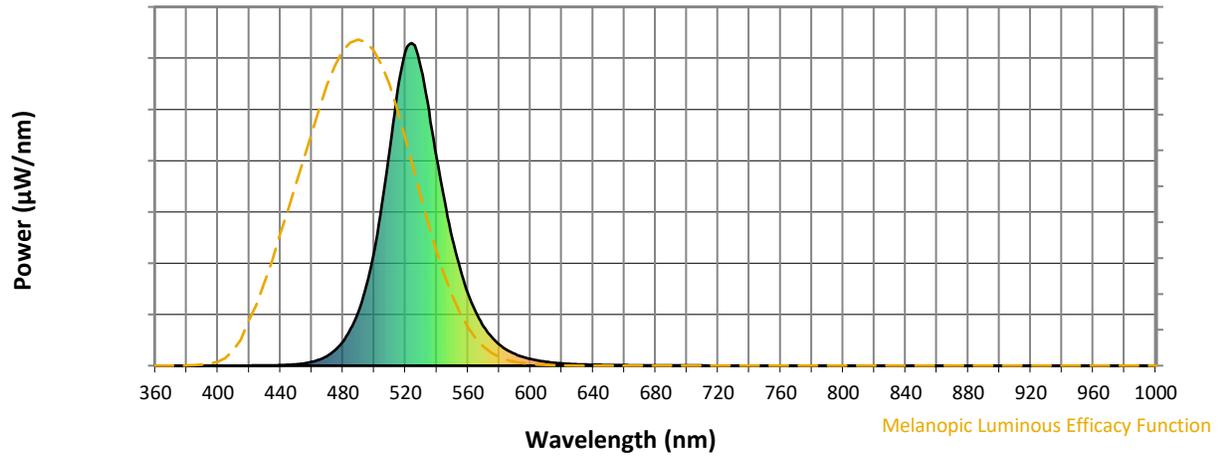
Scotopic Lumens: NR

S/P: 2.63

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	169	NR	620	7	NR	750	0	NR	880	0	NR
365	0	NR	495	249	NR	625	6	NR	755	0	NR	885	0	NR
370	0	NR	500	356	NR	630	4	NR	760	0	NR	890	0	NR
375	0	NR	505	502	NR	635	4	NR	765	0	NR	895	0	NR
380	0	NR	510	674	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	853	NR	645	3	NR	775	0	NR	905	0	NR
390	0	NR	520	976	NR	650	2	NR	780	0	NR	910	0	NR
395	0	NR	525	996	NR	655	2	NR	785	0	NR	915	0	NR
400	0	NR	530	920	NR	660	2	NR	790	0	NR	920	0	NR
405	0	NR	535	792	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	642	NR	670	1	NR	800	0	NR	930	0	NR
415	0	NR	545	511	NR	675	1	NR	805	0	NR	935	0	NR
420	0	NR	550	394	NR	680	1	NR	810	0	NR	940	0	NR
425	1	NR	555	300	NR	685	1	NR	815	0	NR	945	0	NR
430	1	NR	560	224	NR	690	1	NR	820	0	NR	950	0	NR
435	1	NR	565	166	NR	695	1	NR	825	0	NR	955	0	NR
440	2	NR	570	122	NR	700	1	NR	830	0	NR	960	0	NR
445	3	NR	575	90	NR	705	1	NR	835	0	NR	965	0	NR
450	4	NR	580	66	NR	710	1	NR	840	0	NR	970	0	NR
455	7	NR	585	48	NR	715	0	NR	845	0	NR	975	0	NR
460	12	NR	590	36	NR	720	0	NR	850	0	NR	980	0	NR
465	19	NR	595	27	NR	725	0	NR	855	0	NR	985	0	NR
470	31	NR	600	21	NR	730	0	NR	860	0	NR	990	0	NR
475	49	NR	605	16	NR	735	0	NR	865	0	NR	995	0	NR
480	75	NR	610	12	NR	740	0	NR	870	0	NR	1000	0	NR
485	115	NR	615	9	NR	745	0	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

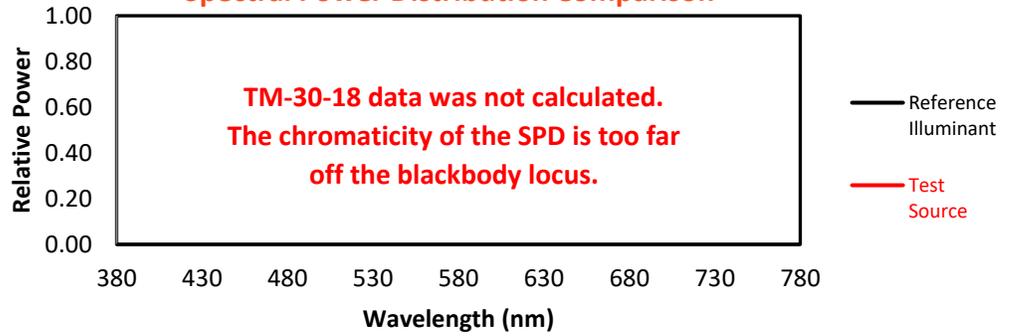
M/P: 4.87

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	169	NR	620	7	NR	750	0	NR	880	0	NR
365	0	NR	495	249	NR	625	6	NR	755	0	NR	885	0	NR
370	0	NR	500	356	NR	630	4	NR	760	0	NR	890	0	NR
375	0	NR	505	502	NR	635	4	NR	765	0	NR	895	0	NR
380	0	NR	510	674	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	853	NR	645	3	NR	775	0	NR	905	0	NR
390	0	NR	520	976	NR	650	2	NR	780	0	NR	910	0	NR
395	0	NR	525	996	NR	655	2	NR	785	0	NR	915	0	NR
400	0	NR	530	920	NR	660	2	NR	790	0	NR	920	0	NR
405	0	NR	535	792	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	642	NR	670	1	NR	800	0	NR	930	0	NR
415	0	NR	545	511	NR	675	1	NR	805	0	NR	935	0	NR
420	0	NR	550	394	NR	680	1	NR	810	0	NR	940	0	NR
425	1	NR	555	300	NR	685	1	NR	815	0	NR	945	0	NR
430	1	NR	560	224	NR	690	1	NR	820	0	NR	950	0	NR
435	1	NR	565	166	NR	695	1	NR	825	0	NR	955	0	NR
440	2	NR	570	122	NR	700	1	NR	830	0	NR	960	0	NR
445	3	NR	575	90	NR	705	1	NR	835	0	NR	965	0	NR
450	4	NR	580	66	NR	710	1	NR	840	0	NR	970	0	NR
455	7	NR	585	48	NR	715	0	NR	845	0	NR	975	0	NR
460	12	NR	590	36	NR	720	0	NR	850	0	NR	980	0	NR
465	19	NR	595	27	NR	725	0	NR	855	0	NR	985	0	NR
470	31	NR	600	21	NR	730	0	NR	860	0	NR	990	0	NR
475	49	NR	605	16	NR	735	0	NR	865	0	NR	995	0	NR
480	75	NR	610	12	NR	740	0	NR	870	0	NR	1000	0	NR
485	115	NR	615	9	NR	745	0	NR	875	0	NR			

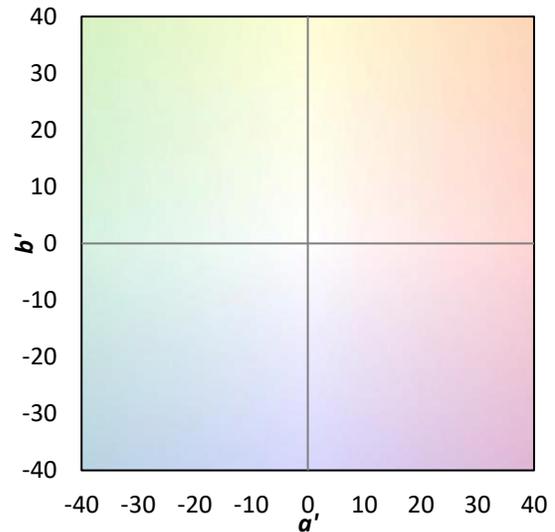
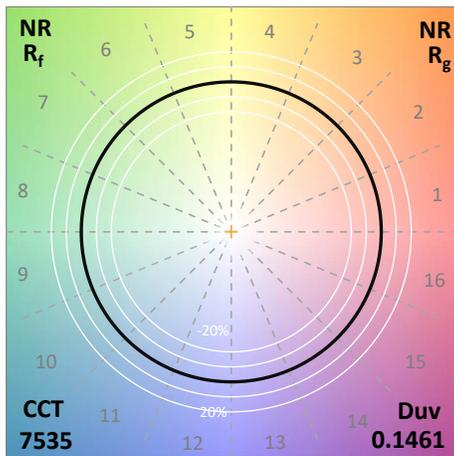
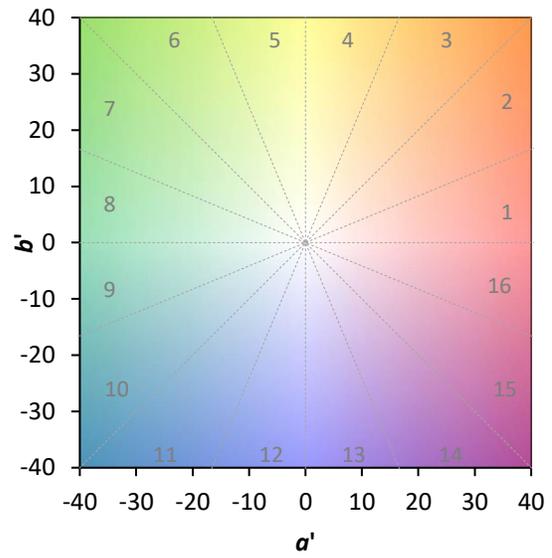
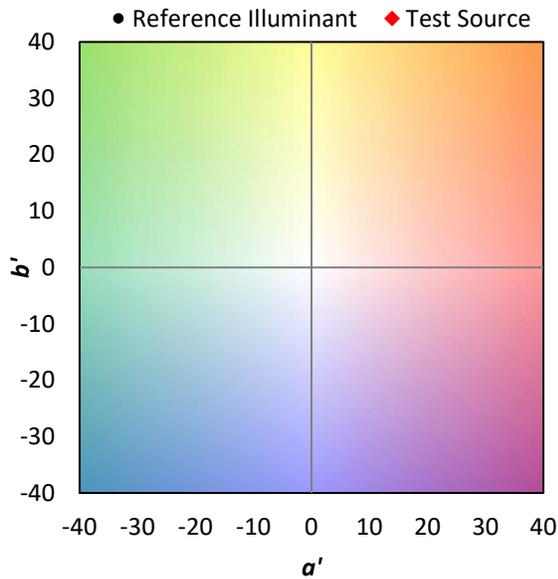
Summary

$R_f = 0$
 $R_g = 0$
 $CIE R_a = -11.7$
 $R_g = -351.9$

Spectral Power Distribution Comparison



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)