

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: P1356844

Luminaire Tested: 2ASL4-15HE-2-92765-UNV_4000K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1356844
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: 2ASL4-15HE-2-92765-UNV_4000K
Description: 2FT 1500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 4000K LEDS 2 ROW
Light Source: -
Ballast/Driver: -

Summary

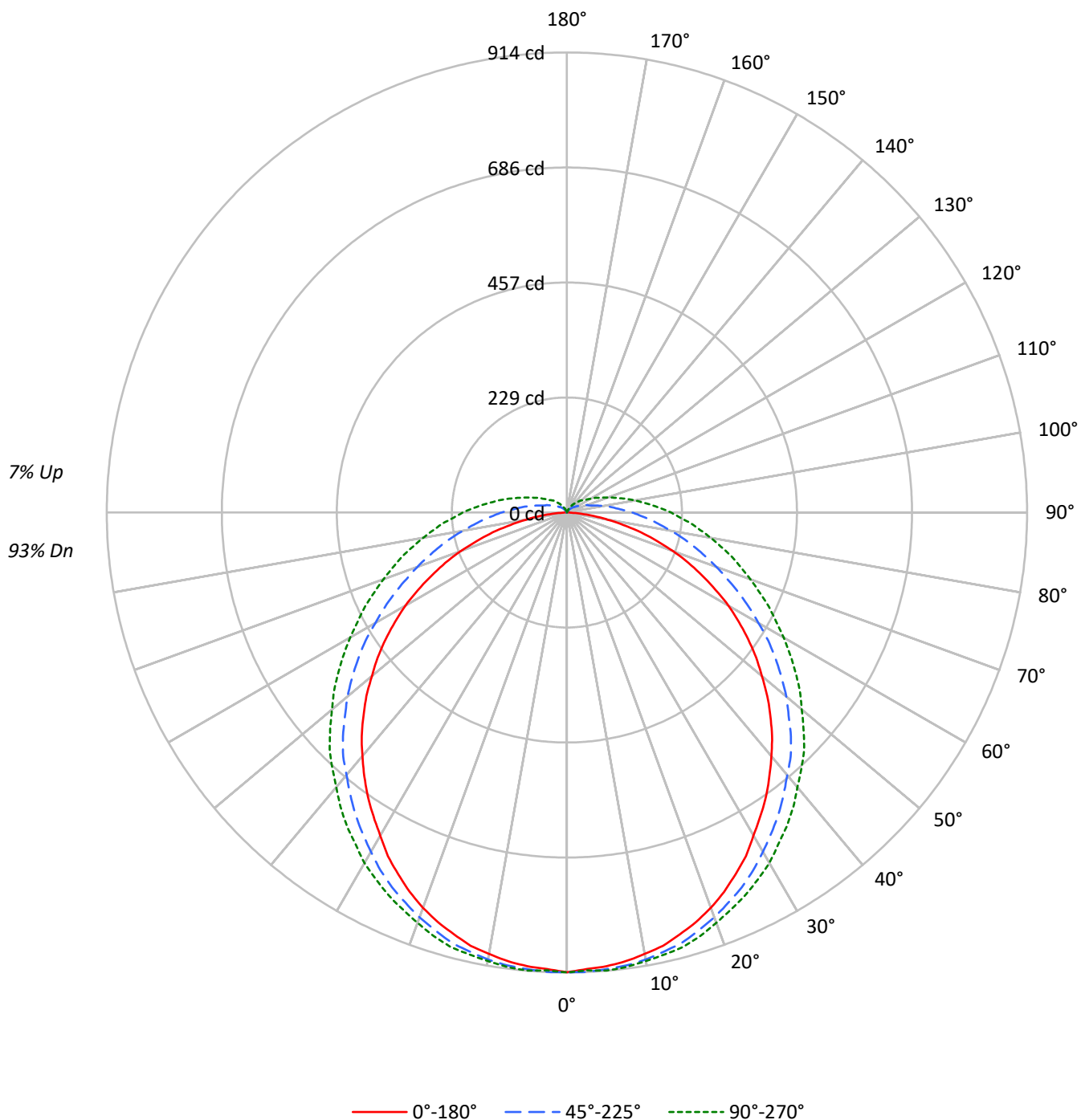
Lumens per Lamp: N/A
Luminaire Lumens: 3136.0 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 27.1
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



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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	30	10
RCR																	
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	79	77
2	95	86	79	72	92	84	77	71	79	73	68	74	70	65	70	66	63
3	86	75	66	59	83	73	65	58	69	62	56	65	59	55	62	57	53
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30
8	58	44	35	29	56	43	34	29	41	33	28	39	32	28	37	31	27
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	29	24
10	50	37	29	24	49	36	28	23	35	28	23	33	27	22	32	26	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14905	14905	14905
5°	14753	14585	14563
10°	14618	14293	14209
15°	14450	13979	13925
20°	14241	13586	13524
25°	13931	13202	13180
30°	13551	12764	12837
35°	13243	12356	12440
40°	12892	11918	12021
45°	12530	11537	11716
50°	12076	11041	11263
55°	11628	10508	10904
60°	11083	9910	10523
65°	10265	9350	10226
70°	9340	8819	9954
75°	8019	8392	9865
80°	6028	7996	9832
85°	3355	7894	10114

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12530 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.6	2.8
10°-20°	249.0	7.9
20°-30°	377.3	12.0
30°-40°	456.4	14.6
40°-50°	481.1	15.3
50°-60°	449.0	14.3
60°-70°	370.7	11.8
70°-80°	268.9	8.6
80°-90°	169.9	5.4
90°-100°	101.4	3.2
100°-110°	58.1	1.9
110°-120°	33.0	1.1
120°-130°	18.8	0.6
130°-140°	10.2	0.3
140°-150°	4.5	0.1
150°-160°	0.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	713.0	22.7
0°-40°	1169.3	37.3
0°-60°	2099.5	66.9
0°-90°	2909.1	92.8
90°-120°	192.6	6.1
90°-150°	226.1	7.2
90°-180°	227.0	7.2
0°-180°	3136.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	914	914	914	914	914	
5°	905	914	911	911	914	86
15°	868	879	885	888	893	245
25°	793	804	822	833	839	365
35°	689	707	732	753	761	431
45°	572	595	629	655	666	441
55°	440	465	506	540	554	393
65°	296	328	376	422	442	294
75°	152	192	261	316	339	160
85°	29	89	167	224	247	35
90°	0	55	129	184	207	1
95°	0	34	98	149	170	0
105°	0	12	55	95	109	0
115°	0	6	32	58	69	0
125°	0	3	20	37	43	0
135°	0	0	12	23	29	0
145°	0	0	6	14	17	0
155°	0	0	0	3	6	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°	913.5	913.5	913.5	913.5	913.5
2.5°	907.7	916.4	913.5	910.6	910.6
5°	904.9	913.5	910.6	910.6	913.5
7.5°	899.1	907.7	907.7	907.7	910.6
10°	890.5	902.0	902.0	902.0	904.9
12.5°	881.9	890.5	893.4	896.2	899.1
15°	867.5	879.0	884.8	887.6	893.4
17.5°	853.2	861.8	870.4	879.0	881.9
20°	835.9	847.4	856.0	864.7	867.5
22.5°	815.8	827.3	838.8	847.4	853.2
25°	792.8	804.3	821.6	833.1	838.8
27.5°	769.9	781.3	801.5	815.8	821.6
30°	741.1	758.4	778.5	795.7	804.3
32.5°	715.3	732.5	755.5	775.6	781.3
35°	689.4	706.7	732.5	752.6	761.2
37.5°	660.7	680.8	706.7	729.6	738.3
40°	632.0	652.1	680.8	706.7	712.4
42.5°	603.2	623.4	657.8	680.8	689.4
45°	571.6	594.6	629.1	655.0	666.4
47.5°	540.0	563.0	597.5	626.2	637.7
50°	505.6	531.4	568.8	597.5	609.0
52.5°	474.0	499.8	537.2	568.8	583.1
55°	439.5	465.4	505.6	540.0	554.4
57.5°	405.0	430.9	474.0	511.3	525.7
60°	370.6	396.4	439.5	482.6	497.0
62.5°	333.2	361.9	407.9	451.0	468.2
65°	295.9	327.5	376.3	422.3	442.4
67.5°	261.4	293.0	344.7	396.4	413.7
70°	224.1	258.5	316.0	367.7	387.8
72.5°	186.7	224.1	287.3	341.8	361.9
75°	152.2	192.5	261.4	316.0	339.0
77.5°	114.9	163.7	235.6	293.0	313.1
80°	83.3	135.0	209.7	270.0	290.1
82.5°	54.6	109.2	186.7	247.0	267.2
85°	28.7	89.1	166.6	224.1	247.0
87.5°	8.6	68.9	146.5	204.0	224.1
90°	0.0	54.6	129.3	183.8	206.8
92.5°	0.0	43.1	112.0	166.6	186.7
95°	0.0	34.5	97.7	149.4	169.5
97.5°	0.0	28.7	86.2	135.0	152.2
100°	0.0	23.0	74.7	120.6	137.9
102.5°	0.0	17.2	63.2	106.3	123.5
105°	0.0	11.5	54.6	94.8	109.2
107.5°	0.0	8.6	46.0	83.3	97.7
110°	0.0	8.6	43.1	71.8	86.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	5.7	37.3	66.1	77.6
115°	0.0	5.7	31.6	57.5	68.9
117.5°	0.0	5.7	28.7	51.7	63.2
120°	0.0	5.7	25.9	46.0	54.6
122.5°	0.0	2.9	23.0	40.2	48.8
125°	0.0	2.9	20.1	37.3	43.1
127.5°	0.0	2.9	17.2	34.5	40.2
130°	0.0	2.9	17.2	31.6	37.3
132.5°	0.0	0.0	14.4	28.7	34.5
135°	0.0	0.0	11.5	23.0	28.7
137.5°	0.0	0.0	11.5	20.1	25.9
140°	0.0	0.0	8.6	20.1	23.0
142.5°	0.0	0.0	5.7	17.2	20.1
145°	0.0	0.0	5.7	14.4	17.2
147.5°	0.0	0.0	2.9	11.5	14.4
150°	0.0	0.0	2.9	8.6	11.5
152.5°	0.0	0.0	0.0	5.7	8.6
155°	0.0	0.0	0.0	2.9	5.7
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

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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	18.67	20.20	19.14	20.66	21.15	20.64	22.18	21.12	22.64	23.13
	3H	20.17	21.57	20.66	22.04	22.57	23.06	24.46	23.54	24.93	25.46
	4H	20.65	21.98	21.16	22.47	23.01	24.24	25.57	24.74	26.05	26.60
	6H	20.93	22.17	21.45	22.67	23.23	25.46	26.70	25.98	27.20	27.76
	8H	20.98	22.17	21.51	22.69	23.26	26.08	27.27	26.61	27.79	28.36
	12H	21.00	22.14	21.54	22.65	23.25	26.75	27.89	27.29	28.40	29.00
4H	2H	19.53	20.86	20.04	21.35	21.89	21.08	22.41	21.59	22.89	23.44
	3H	21.27	22.41	21.79	22.94	23.50	23.72	24.86	24.24	25.39	25.95
	4H	21.88	22.92	22.42	23.46	24.06	25.08	26.12	25.62	26.66	27.26
	6H	22.29	23.20	22.85	23.77	24.38	26.50	27.42	27.06	27.98	28.59
	8H	22.38	23.25	22.95	23.81	24.44	27.23	28.09	27.79	28.66	29.28
	12H	22.43	23.22	23.02	23.81	24.44	28.02	28.80	28.61	29.40	30.03
8H	4H	22.56	23.42	23.12	23.99	24.61	25.30	26.16	25.87	26.73	27.36
	6H	23.15	23.88	23.74	24.49	25.12	26.90	27.63	27.50	28.24	28.87
	8H	23.33	23.99	23.94	24.61	25.26	27.77	28.43	28.38	29.05	29.70
	12H	23.46	24.05	24.07	24.65	25.36	28.75	29.34	29.36	29.95	30.66
12H	4H	22.75	23.53	23.34	24.13	24.76	25.31	26.10	25.90	26.69	27.32
	6H	23.44	24.10	24.05	24.72	25.36	26.94	27.60	27.55	28.22	28.86
	8H	23.73	24.31	24.34	24.92	25.63	27.88	28.47	28.49	29.08	29.79