

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: P1356798

Luminaire Tested: 2ASL4-10-1-92765-UNV_3500K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1356798
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-6)
Test Lab: INNOVATION CENTER
Issue Date: 2/17/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: 2ASL4-10-1-92765-UNV_3500K
Description: 2FT 1000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 3500K LEDS 1 ROW
Light Source: -
Ballast/Driver: -

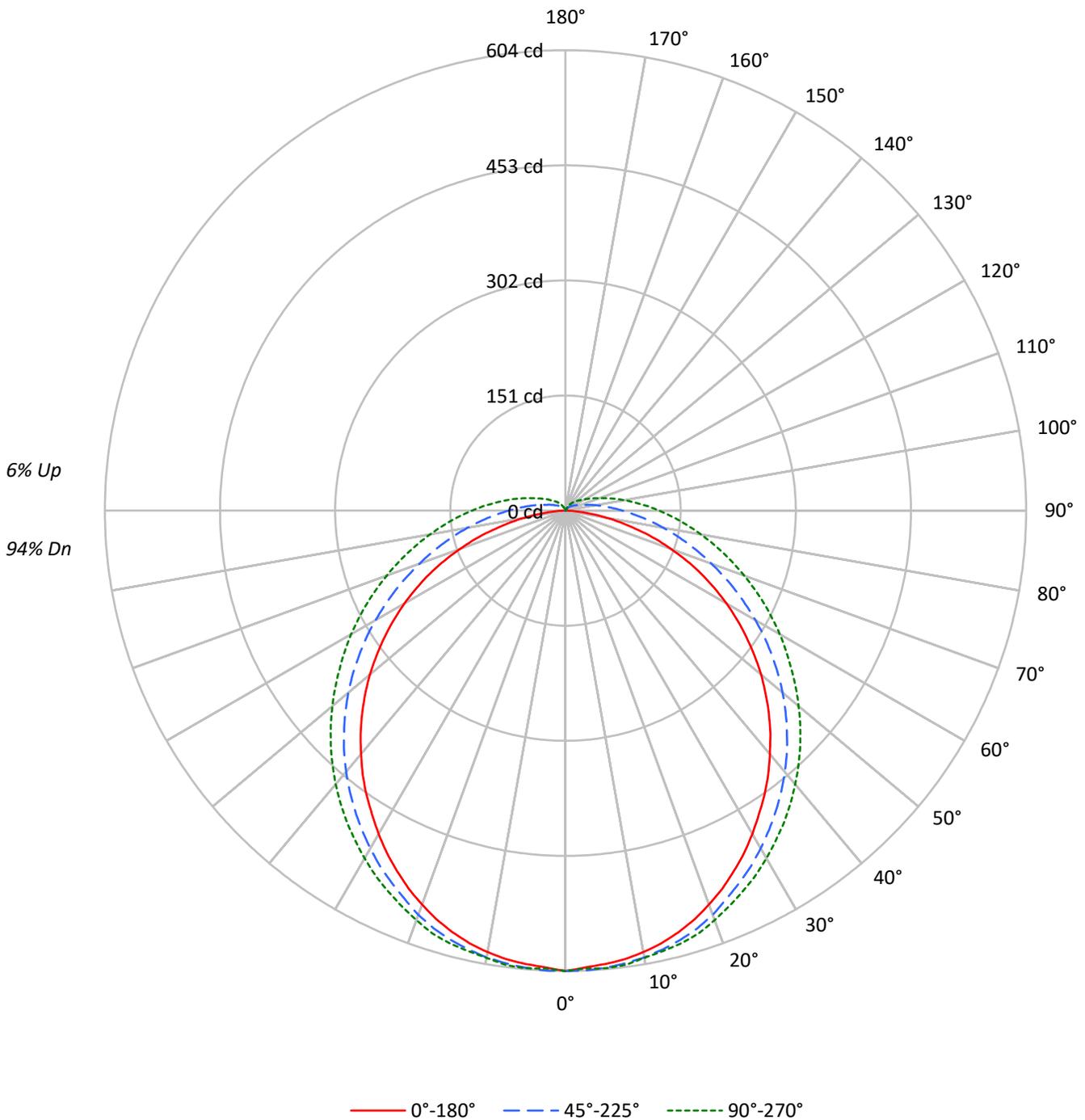
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2022.0 lumens
Efficiency: N/A
Efficacy: 112.3 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): 18
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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	96	96	96	94
1	106	100	95	91	102	97	93	89	92	88	85	87	84	81	82	80	78	78	78	78	75
2	95	86	79	73	92	84	77	71	79	74	69	75	70	66	71	67	64	64	64	64	61
3	87	76	67	60	84	73	65	59	69	63	57	66	60	55	62	58	54	54	54	54	51
4	79	67	57	50	76	65	56	50	62	54	48	58	52	47	56	50	46	46	46	46	43
5	73	59	50	43	70	58	49	43	55	47	42	52	46	41	50	44	40	40	40	40	37
6	67	53	44	38	65	52	43	37	50	42	36	47	41	35	45	39	35	35	35	35	32
7	62	48	39	33	60	47	39	33	45	37	32	43	36	31	41	35	31	31	31	31	29
8	58	44	35	29	56	43	35	29	41	34	29	39	33	28	38	32	27	27	27	27	25
9	54	40	32	26	52	39	32	26	38	31	26	36	30	25	35	29	25	25	25	25	23
10	51	37	29	24	49	36	29	24	35	28	23	34	27	23	32	27	22	22	22	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9855	9855	9855
5°	9735	9640	9607
10°	9655	9430	9355
15°	9536	9207	9159
20°	9370	8956	8914
25°	9172	8661	8653
30°	8958	8390	8408
35°	8741	8114	8161
40°	8502	7834	7909
45°	8266	7530	7651
50°	7997	7215	7380
55°	7665	6858	7108
60°	7294	6485	6870
65°	6827	6095	6632
70°	6122	5682	6401
75°	5222	5307	6222
80°	4002	4976	6114
85°	2151	4724	6154

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8266 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.2	2.8
10°-20°	164.2	8.1
20°-30°	248.2	12.3
30°-40°	300.1	14.8
40°-50°	315.5	15.6
50°-60°	293.9	14.5
60°-70°	241.5	11.9
70°-80°	171.4	8.5
80°-90°	103.3	5.1
90°-100°	57.9	2.9
100°-110°	32.1	1.6
110°-120°	17.9	0.9
120°-130°	10.3	0.5
130°-140°	5.6	0.3
140°-150°	2.5	0.1
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	469.6	23.2
0°-40°	769.7	38.1
0°-60°	1379.0	68.2
0°-90°	1895.2	93.7
90°-120°	107.8	5.3
90°-150°	126.2	6.2
90°-180°	127.0	6.3
0°-180°	2022.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	604	604	604	604	604	
5°	597	603	602	601	603	57
15°	572	580	583	586	588	161
25°	522	532	539	547	551	241
35°	455	467	481	493	499	284
45°	377	391	411	428	435	291
55°	290	306	330	352	361	259
65°	197	214	245	274	287	194
75°	99	124	165	200	214	106
85°	18	53	100	137	150	23
90°	0	31	74	109	122	1
95°	0	18	55	86	98	0
105°	0	7	29	52	62	0
115°	0	3	18	31	38	0
125°	0	2	11	20	24	0
135°	0	1	7	13	16	0
145°	1	0	3	8	10	0
155°	1	1	0	2	3	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°	604.0	604.0	604.0	604.0	604.0
2.5°	599.9	605.3	604.0	601.2	601.2
5°	597.1	602.6	601.9	601.2	602.6
7.5°	593.7	599.2	599.2	599.9	601.2
10°	588.2	595.1	595.1	595.1	595.8
12.5°	581.4	588.2	589.6	590.3	591.7
15°	572.5	580.0	582.8	585.5	587.6
17.5°	562.3	569.8	574.6	578.0	581.4
20°	550.0	558.2	564.3	568.4	571.8
22.5°	537.0	545.2	551.3	557.5	561.6
25°	522.0	531.5	539.0	546.6	550.7
27.5°	506.9	516.5	526.1	535.0	539.7
30°	489.9	500.8	511.7	522.0	526.8
32.5°	472.1	483.7	496.7	507.6	513.1
35°	455.0	466.6	481.0	493.3	499.4
37.5°	436.6	448.2	464.6	478.2	484.4
40°	416.8	429.7	447.5	461.8	468.7
42.5°	397.6	410.6	429.7	445.5	452.3
45°	377.1	390.8	410.6	427.7	435.2
47.5°	356.0	370.3	391.5	409.2	417.4
50°	334.8	349.8	371.7	390.8	399.0
52.5°	312.2	327.9	351.2	371.7	380.5
55°	289.7	306.1	330.0	351.9	361.4
57.5°	267.1	283.5	309.5	332.7	343.0
60°	243.9	261.0	287.6	312.9	324.5
62.5°	220.0	237.8	265.8	293.1	305.4
65°	196.8	214.5	245.3	274.0	286.9
67.5°	172.2	191.3	224.1	254.2	267.8
70°	146.9	168.8	203.6	235.7	249.4
72.5°	124.3	146.9	184.5	217.3	231.6
75°	99.1	124.3	165.3	199.5	213.8
77.5°	77.2	104.5	147.6	182.4	196.8
80°	55.3	85.4	130.5	166.0	180.4
82.5°	35.5	68.3	114.8	151.0	164.7
85°	18.4	53.3	99.7	136.6	150.3
87.5°	5.5	41.0	86.1	122.3	136.0
90°	0.0	31.4	74.5	109.3	122.3
92.5°	0.0	23.9	64.2	97.7	110.7
95°	0.0	18.4	54.7	86.1	98.4
97.5°	0.0	14.3	47.1	75.8	88.1
100°	0.0	11.6	40.3	67.0	78.6
102.5°	0.0	9.6	34.8	59.4	69.7
105°	0.0	6.8	28.7	51.9	61.5
107.5°	0.0	4.8	25.3	45.8	54.0
110°	0.0	4.1	22.5	39.6	47.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	3.4	19.8	35.5	42.4
115°	0.0	3.4	17.8	31.4	37.6
117.5°	0.0	2.7	15.0	28.0	33.5
120°	0.0	2.7	13.7	25.3	30.1
122.5°	0.0	2.0	12.3	22.5	27.3
125°	0.0	2.0	10.9	20.5	23.9
127.5°	0.0	1.4	9.6	18.4	21.9
130°	0.0	1.4	8.9	16.4	19.8
132.5°	0.0	0.7	8.2	15.0	17.8
135°	0.0	0.7	6.8	13.0	16.4
137.5°	0.0	0.0	6.1	11.6	14.3
140°	0.0	0.0	4.8	10.2	13.0
142.5°	0.7	0.0	4.1	8.9	10.9
145°	0.7	0.0	2.7	7.5	9.6
147.5°	0.7	0.7	2.0	6.1	7.5
150°	0.7	0.7	1.4	4.1	6.1
152.5°	0.7	0.7	0.7	2.7	4.1
155°	0.7	0.7	0.0	2.0	2.7
157.5°	0.7	0.7	0.0	0.7	1.4
160°	0.7	0.7	0.0	0.0	0.7
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	17.32	18.87	17.78	19.32	19.78	19.22	20.77	19.68	21.22	21.68
	3H	18.82	20.23	19.29	20.68	21.19	21.60	23.01	22.07	23.46	23.97
	4H	19.29	20.63	19.79	21.10	21.63	22.73	24.07	23.23	24.54	25.07
	6H	19.57	20.82	20.08	21.30	21.84	23.89	25.14	24.40	25.63	26.16
	8H	19.62	20.82	20.14	21.33	21.87	24.48	25.67	25.00	26.18	26.73
	12H	19.64	20.78	20.16	21.29	21.86	25.10	26.25	25.63	26.75	27.33
4H	2H	18.17	19.51	18.66	19.98	20.50	19.66	21.00	20.15	21.47	21.99
	3H	19.90	21.04	20.41	21.56	22.10	22.26	23.40	22.77	23.91	24.46
	4H	20.50	21.54	21.03	22.07	22.65	23.56	24.61	24.09	25.13	25.71
	6H	20.90	21.82	21.44	22.37	22.96	24.91	25.84	25.46	26.39	26.98
	8H	20.99	21.86	21.54	22.41	23.01	25.60	26.47	26.15	27.02	27.62
	12H	21.03	21.82	21.61	22.40	23.01	26.35	27.14	26.92	27.72	28.33
8H	4H	21.13	22.00	21.69	22.55	23.16	23.78	24.65	24.33	25.20	25.80
	6H	21.70	22.44	22.29	23.03	23.64	25.30	26.03	25.88	26.62	27.24
	8H	21.88	22.54	22.47	23.15	23.77	26.12	26.79	26.72	27.39	28.01
	12H	21.99	22.58	22.59	23.17	23.86	27.05	27.64	27.65	28.24	28.93
12H	4H	21.31	22.09	21.88	22.67	23.28	23.79	24.58	24.36	25.16	25.77
	6H	21.96	22.63	22.56	23.23	23.86	25.33	26.00	25.93	26.60	27.23
	8H	22.23	22.82	22.83	23.42	24.11	26.23	26.82	26.83	27.41	28.10