

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: P1357262

Luminaire Tested: 4ASL4-5HE-2-92765-UNV_3000K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357262
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: 4ASL4-5HE-2-92765-UNV_3000K
Description: 4FT 500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 3000K LEDS 2 ROW
Light Source: -
Ballast/Driver: -

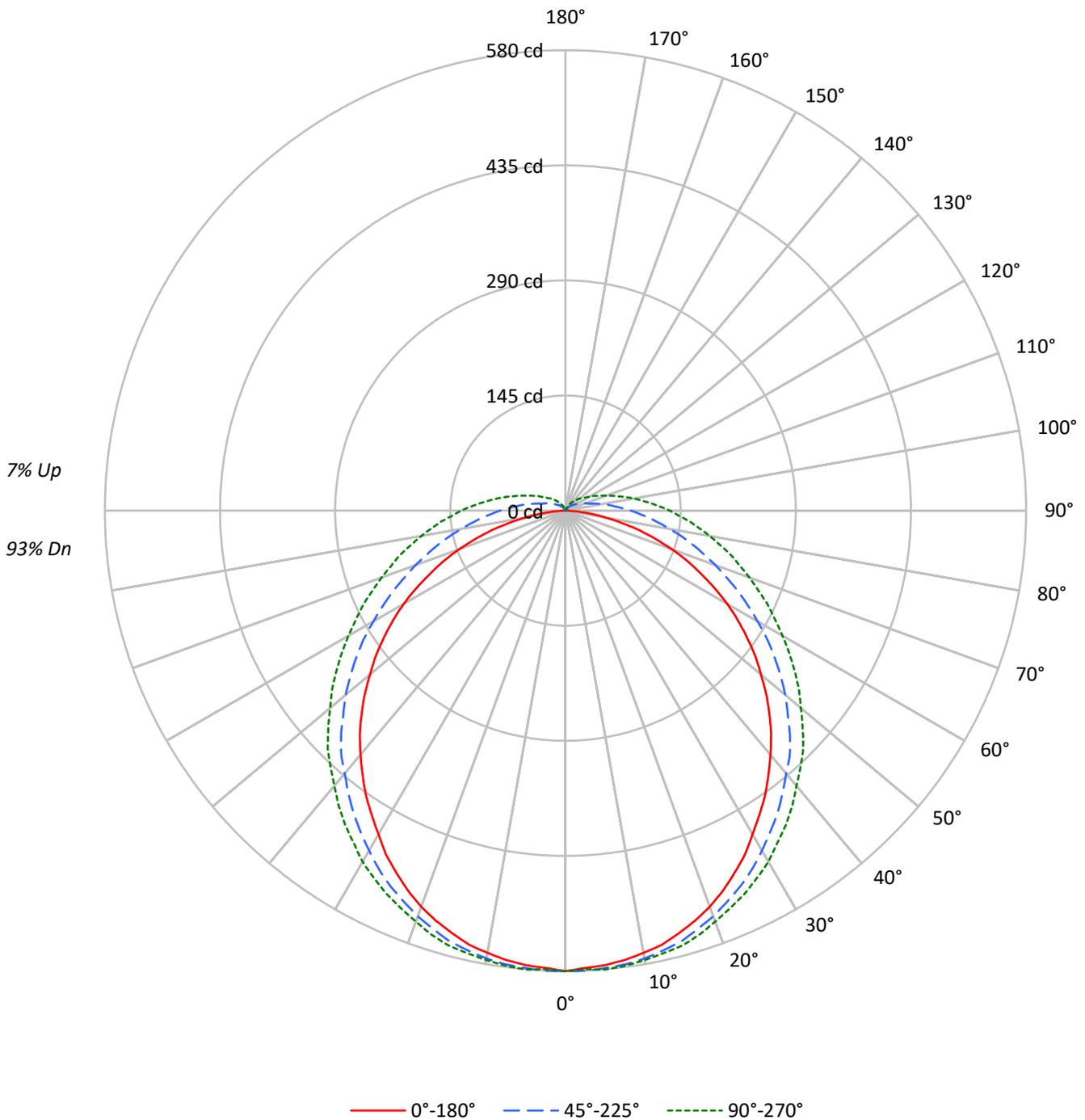
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1991.9 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 17.1
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				
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°	4708	4708	4708
5°	4672	4615	4601
10°	4640	4530	4489
15°	4598	4437	4399
20°	4542	4320	4273
25°	4455	4204	4164
30°	4346	4071	4056
35°	4260	3948	3930
40°	4161	3814	3798
45°	4061	3700	3701
50°	3931	3549	3558
55°	3808	3385	3445
60°	3655	3203	3325
65°	3416	3032	3231
70°	3150	2872	3144
75°	2762	2748	3116
80°	2153	2640	3107
85°	1304	2636	3195

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4061 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.0	2.8
10°-20°	158.2	7.9
20°-30°	239.7	12.0
30°-40°	289.9	14.6
40°-50°	305.6	15.3
50°-60°	285.2	14.3
60°-70°	235.5	11.8
70°-80°	170.8	8.6
80°-90°	107.9	5.4
90°-100°	64.4	3.2
100°-110°	36.9	1.9
110°-120°	21.0	1.1
120°-130°	12.0	0.6
130°-140°	6.5	0.3
140°-150°	2.8	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	452.9	22.7
0°-40°	742.8	37.3
0°-60°	1333.6	67.0
0°-90°	1847.9	92.8
90°-120°	122.3	6.1
90°-150°	143.6	7.2
90°-180°	144.0	7.2
0°-180°	1991.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	580	580	580	580	580	
5°	575	580	578	578	580	55
15°	551	558	562	564	568	156
25°	504	511	522	529	533	232
35°	438	449	465	478	484	274
45°	363	378	400	416	423	280
55°	279	296	321	343	352	250
65°	188	208	239	268	281	187
75°	97	122	166	201	215	102
85°	18	57	106	142	157	22
90°	0	35	82	117	131	1
95°	0	22	62	95	108	0
105°	0	7	35	60	69	0
115°	0	4	20	36	44	0
125°	0	2	13	24	27	0
135°	0	0	7	15	18	0
145°	0	0	4	9	11	0
155°	0	0	0	2	4	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°	580.2	580.2	580.2	580.2	580.2
2.5°	576.6	582.1	580.2	578.4	578.4
5°	574.8	580.2	578.4	578.4	580.2
7.5°	571.1	576.6	576.6	576.6	578.4
10°	565.7	573.0	573.0	573.0	574.8
12.5°	560.2	565.7	567.5	569.3	571.1
15°	551.1	558.4	562.0	563.8	567.5
17.5°	541.9	547.4	552.9	558.4	560.2
20°	531.0	538.3	543.8	549.2	551.1
22.5°	518.2	525.5	532.8	538.3	541.9
25°	503.6	510.9	521.9	529.2	532.8
27.5°	489.0	496.3	509.1	518.2	521.9
30°	470.8	481.7	494.5	505.4	510.9
32.5°	454.3	465.3	479.9	492.7	496.3
35°	437.9	448.9	465.3	478.1	483.5
37.5°	419.7	432.4	448.9	463.5	468.9
40°	401.4	414.2	432.4	448.9	452.5
42.5°	383.2	396.0	417.9	432.4	437.9
45°	363.1	377.7	399.6	416.0	423.3
47.5°	343.0	357.6	379.5	397.8	405.1
50°	321.1	337.6	361.3	379.5	386.8
52.5°	301.1	317.5	341.2	361.3	370.4
55°	279.2	295.6	321.1	343.0	352.2
57.5°	257.3	273.7	301.1	324.8	333.9
60°	235.4	251.8	279.2	306.5	315.7
62.5°	211.7	229.9	259.1	286.5	297.4
65°	187.9	208.0	239.0	268.2	281.0
67.5°	166.0	186.1	219.0	251.8	262.8
70°	142.3	164.2	200.7	233.6	246.3
72.5°	118.6	142.3	182.5	217.1	229.9
75°	96.7	122.3	166.0	200.7	215.3
77.5°	73.0	104.0	149.6	186.1	198.9
80°	52.9	85.8	133.2	171.5	184.3
82.5°	34.7	69.3	118.6	156.9	169.7
85°	18.2	56.6	105.8	142.3	156.9
87.5°	5.5	43.8	93.1	129.6	142.3
90°	0.0	34.7	82.1	116.8	131.4
92.5°	0.0	27.4	71.2	105.8	118.6
95°	0.0	21.9	62.0	94.9	107.7
97.5°	0.0	18.2	54.7	85.8	96.7
100°	0.0	14.6	47.4	76.6	87.6
102.5°	0.0	10.9	40.1	67.5	78.5
105°	0.0	7.3	34.7	60.2	69.3
107.5°	0.0	5.5	29.2	52.9	62.0
110°	0.0	5.5	27.4	45.6	54.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	3.6	23.7	42.0	49.3
115°	0.0	3.6	20.1	36.5	43.8
117.5°	0.0	3.6	18.2	32.8	40.1
120°	0.0	3.6	16.4	29.2	34.7
122.5°	0.0	1.8	14.6	25.5	31.0
125°	0.0	1.8	12.8	23.7	27.4
127.5°	0.0	1.8	10.9	21.9	25.5
130°	0.0	1.8	10.9	20.1	23.7
132.5°	0.0	0.0	9.1	18.2	21.9
135°	0.0	0.0	7.3	14.6	18.2
137.5°	0.0	0.0	7.3	12.8	16.4
140°	0.0	0.0	5.5	12.8	14.6
142.5°	0.0	0.0	3.6	10.9	12.8
145°	0.0	0.0	3.6	9.1	10.9
147.5°	0.0	0.0	1.8	7.3	9.1
150°	0.0	0.0	1.8	5.5	7.3
152.5°	0.0	0.0	0.0	3.6	5.5
155°	0.0	0.0	0.0	1.8	3.6
157.5°	0.0	0.0	0.0	0.0	1.8
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



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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	14.70	16.23	15.17	16.69	17.18	16.75	18.29	17.23	18.75	19.24
	3H	16.20	17.60	16.68	18.07	18.60	19.21	20.61	19.69	21.08	21.61
	4H	16.68	18.01	17.18	18.49	19.04	20.42	21.74	20.92	22.23	22.78
	6H	16.95	18.19	17.47	18.69	19.25	21.69	22.92	22.21	23.42	23.98
	8H	17.01	18.19	17.54	18.72	19.28	22.35	23.53	22.88	24.06	24.62
	12H	17.02	18.16	17.56	18.68	19.27	23.07	24.21	23.61	24.73	25.33
4H	2H	15.57	16.90	16.08	17.39	17.93	17.19	18.51	17.69	19.00	19.55
	3H	17.32	18.45	17.84	18.98	19.55	19.87	21.00	20.39	21.53	22.10
	4H	17.93	18.96	18.47	19.50	20.10	21.25	22.29	21.79	22.83	23.43
	6H	18.33	19.24	18.89	19.81	20.42	22.72	23.64	23.28	24.20	24.82
	8H	18.43	19.29	18.99	19.85	20.48	23.49	24.35	24.05	24.92	25.54
	12H	18.47	19.26	19.06	19.85	20.48	24.34	25.12	24.93	25.72	26.35
8H	4H	18.62	19.48	19.19	20.05	20.67	21.47	22.33	22.04	22.90	23.53
	6H	19.21	19.94	19.80	20.55	21.18	23.12	23.85	23.71	24.45	25.09
	8H	19.40	20.06	20.00	20.67	21.32	24.03	24.69	24.63	25.31	25.95
	12H	19.52	20.11	20.13	20.71	21.42	25.07	25.66	25.68	26.26	26.97
12H	4H	18.82	19.60	19.41	20.20	20.83	21.48	22.26	22.07	22.86	23.49
	6H	19.51	20.17	20.12	20.79	21.44	23.15	23.81	23.76	24.43	25.08
	8H	19.80	20.39	20.41	21.00	21.71	24.14	24.72	24.75	25.33	26.04