

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: P1357264

Luminaire Tested: 4ASL4-5HE-2-92765-UNV_4000K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357264
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_4000K
Description: 4FT 500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 4000K LEDS 2 ROW
Light Source: -
Ballast/Driver: -

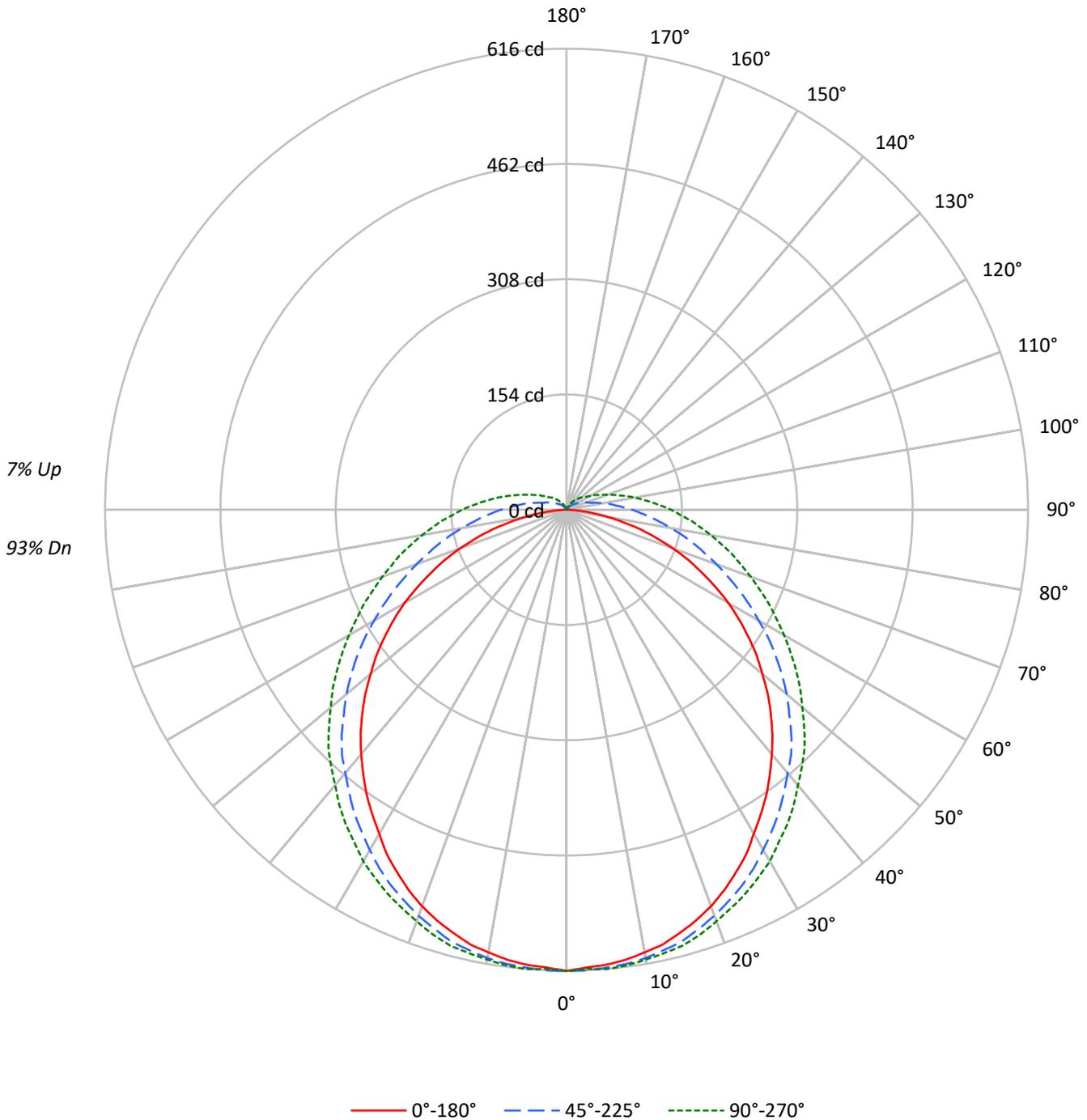
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2115.0 lumens
Efficiency: N/A
Efficacy: 123.7 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				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°	5000	5000	5000
5°	4960	4900	4885
10°	4926	4810	4767
15°	4882	4711	4671
20°	4823	4586	4537
25°	4730	4463	4421
30°	4614	4322	4307
35°	4524	4191	4173
40°	4418	4051	4033
45°	4311	3929	3930
50°	4175	3768	3778
55°	4042	3595	3658
60°	3880	3400	3530
65°	3627	3220	3431
70°	3345	3050	3338
75°	2934	2919	3309
80°	2287	2802	3299
85°	1390	2800	3393

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4311 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.4	2.8
10°-20°	167.9	7.9
20°-30°	254.5	12.0
30°-40°	307.8	14.6
40°-50°	324.5	15.3
50°-60°	302.9	14.3
60°-70°	250.0	11.8
70°-80°	181.4	8.6
80°-90°	114.6	5.4
90°-100°	68.4	3.2
100°-110°	39.2	1.9
110°-120°	22.3	1.1
120°-130°	12.7	0.6
130°-140°	6.9	0.3
140°-150°	3.0	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	480.8	22.7
0°-40°	788.6	37.3
0°-60°	1416.0	66.9
0°-90°	1962.0	92.8
90°-120°	129.9	6.1
90°-150°	152.5	7.2
90°-180°	153.0	7.2
0°-180°	2115.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	616	616	616	616	616	
5°	610	616	614	614	616	58
15°	585	593	597	599	602	165
25°	535	542	554	562	566	246
35°	465	477	494	508	513	291
45°	386	401	424	442	450	297
55°	296	314	341	364	374	265
65°	200	221	254	285	298	198
75°	103	130	176	213	229	108
85°	19	60	112	151	167	24
90°	0	37	87	124	140	1
95°	0	23	66	101	114	0
105°	0	8	37	64	74	0
115°	0	4	21	39	46	0
125°	0	2	14	25	29	0
135°	0	0	8	16	19	0
145°	0	0	4	10	12	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°	616.1	616.1	616.1	616.1	616.1
2.5°	612.2	618.0	616.1	614.1	614.1
5°	610.3	616.1	614.1	614.1	616.1
7.5°	606.4	612.2	612.2	612.2	614.1
10°	600.6	608.3	608.3	608.3	610.3
12.5°	594.8	600.6	602.5	604.5	606.4
15°	585.1	592.8	596.7	598.6	602.5
17.5°	575.4	581.2	587.0	592.8	594.8
20°	563.8	571.5	577.3	583.1	585.1
22.5°	550.2	558.0	565.7	571.5	575.4
25°	534.7	542.5	554.1	561.8	565.7
27.5°	519.2	527.0	540.5	550.2	554.1
30°	499.8	511.5	525.0	536.6	542.5
32.5°	482.4	494.0	509.5	523.1	527.0
35°	465.0	476.6	494.0	507.6	513.4
37.5°	445.6	459.2	476.6	492.1	497.9
40°	426.2	439.8	459.2	476.6	480.5
42.5°	406.8	420.4	443.7	459.2	465.0
45°	385.5	401.0	424.3	441.7	449.5
47.5°	364.2	379.7	403.0	422.3	430.1
50°	341.0	358.4	383.6	403.0	410.7
52.5°	319.7	337.1	362.3	383.6	393.3
55°	296.4	313.9	341.0	364.2	373.9
57.5°	273.2	290.6	319.7	344.8	354.5
60°	249.9	267.4	296.4	325.5	335.2
62.5°	224.7	244.1	275.1	304.2	315.8
65°	199.5	220.9	253.8	284.8	298.4
67.5°	176.3	197.6	232.5	267.4	279.0
70°	151.1	174.4	213.1	248.0	261.5
72.5°	125.9	151.1	193.7	230.5	244.1
75°	102.7	129.8	176.3	213.1	228.6
77.5°	77.5	110.4	158.9	197.6	211.2
80°	56.2	91.1	141.4	182.1	195.7
82.5°	36.8	73.6	125.9	166.6	180.2
85°	19.4	60.1	112.4	151.1	166.6
87.5°	5.8	46.5	98.8	137.6	151.1
90°	0.0	36.8	87.2	124.0	139.5
92.5°	0.0	29.1	75.6	112.4	125.9
95°	0.0	23.2	65.9	100.7	114.3
97.5°	0.0	19.4	58.1	91.1	102.7
100°	0.0	15.5	50.4	81.4	93.0
102.5°	0.0	11.6	42.6	71.7	83.3
105°	0.0	7.7	36.8	63.9	73.6
107.5°	0.0	5.8	31.0	56.2	65.9
110°	0.0	5.8	29.1	48.4	58.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	3.9	25.2	44.6	52.3
115°	0.0	3.9	21.3	38.7	46.5
117.5°	0.0	3.9	19.4	34.9	42.6
120°	0.0	3.9	17.4	31.0	36.8
122.5°	0.0	1.9	15.5	27.1	32.9
125°	0.0	1.9	13.6	25.2	29.1
127.5°	0.0	1.9	11.6	23.2	27.1
130°	0.0	1.9	11.6	21.3	25.2
132.5°	0.0	0.0	9.7	19.4	23.2
135°	0.0	0.0	7.7	15.5	19.4
137.5°	0.0	0.0	7.7	13.6	17.4
140°	0.0	0.0	5.8	13.6	15.5
142.5°	0.0	0.0	3.9	11.6	13.6
145°	0.0	0.0	3.9	9.7	11.6
147.5°	0.0	0.0	1.9	7.7	9.7
150°	0.0	0.0	1.9	5.8	7.7
152.5°	0.0	0.0	0.0	3.9	5.8
155°	0.0	0.0	0.0	1.9	3.9
157.5°	0.0	0.0	0.0	0.0	1.9
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	14.90	16.44	15.38	16.90	17.39	16.96	18.50	17.43	18.96	19.45
	3H	16.41	17.81	16.89	18.28	18.81	19.41	20.81	19.90	21.28	21.82
	4H	16.89	18.21	17.39	18.70	19.25	20.62	21.95	21.13	22.44	22.98
	6H	17.16	18.40	17.68	18.90	19.46	21.89	23.13	22.41	23.63	24.19
	8H	17.22	18.40	17.75	18.92	19.49	22.55	23.74	23.09	24.26	24.83
	12H	17.23	18.37	17.77	18.89	19.48	23.28	24.42	23.82	24.94	25.53
4H	2H	15.78	17.11	16.29	17.60	18.14	17.39	18.72	17.90	19.21	19.75
	3H	17.53	18.66	18.05	19.19	19.76	20.07	21.21	20.59	21.74	22.30
	4H	18.13	19.17	18.67	19.71	20.31	21.46	22.50	22.00	23.04	23.63
	6H	18.54	19.45	19.09	20.02	20.63	22.93	23.84	23.49	24.41	25.02
	8H	18.63	19.50	19.20	20.06	20.69	23.70	24.56	24.26	25.12	25.75
	12H	18.68	19.46	19.27	20.06	20.69	24.55	25.33	25.14	25.93	26.56
8H	4H	18.83	19.69	19.39	20.26	20.88	21.68	22.54	22.24	23.11	23.73
	6H	19.42	20.15	20.01	20.76	21.39	23.32	24.05	23.92	24.66	25.29
	8H	19.60	20.26	20.21	20.88	21.53	24.23	24.89	24.84	25.51	26.16
	12H	19.73	20.31	20.34	20.92	21.63	25.28	25.86	25.89	26.47	27.18
12H	4H	19.03	19.81	19.62	20.41	21.04	21.69	22.47	22.27	23.07	23.70
	6H	19.72	20.38	20.33	21.00	21.64	23.36	24.02	23.97	24.64	25.29
	8H	20.01	20.60	20.62	21.20	21.91	24.34	24.93	24.95	25.54	26.25