

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: P1357251

Luminaire Tested: 4ASL4-5-1-92765-UNV_6500K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357251
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: 4ASL4-5-1-92765-UNV_6500K
Description: 4FT 500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 6500K LEDS 1 ROW
Light Source: -
Ballast/Driver: -

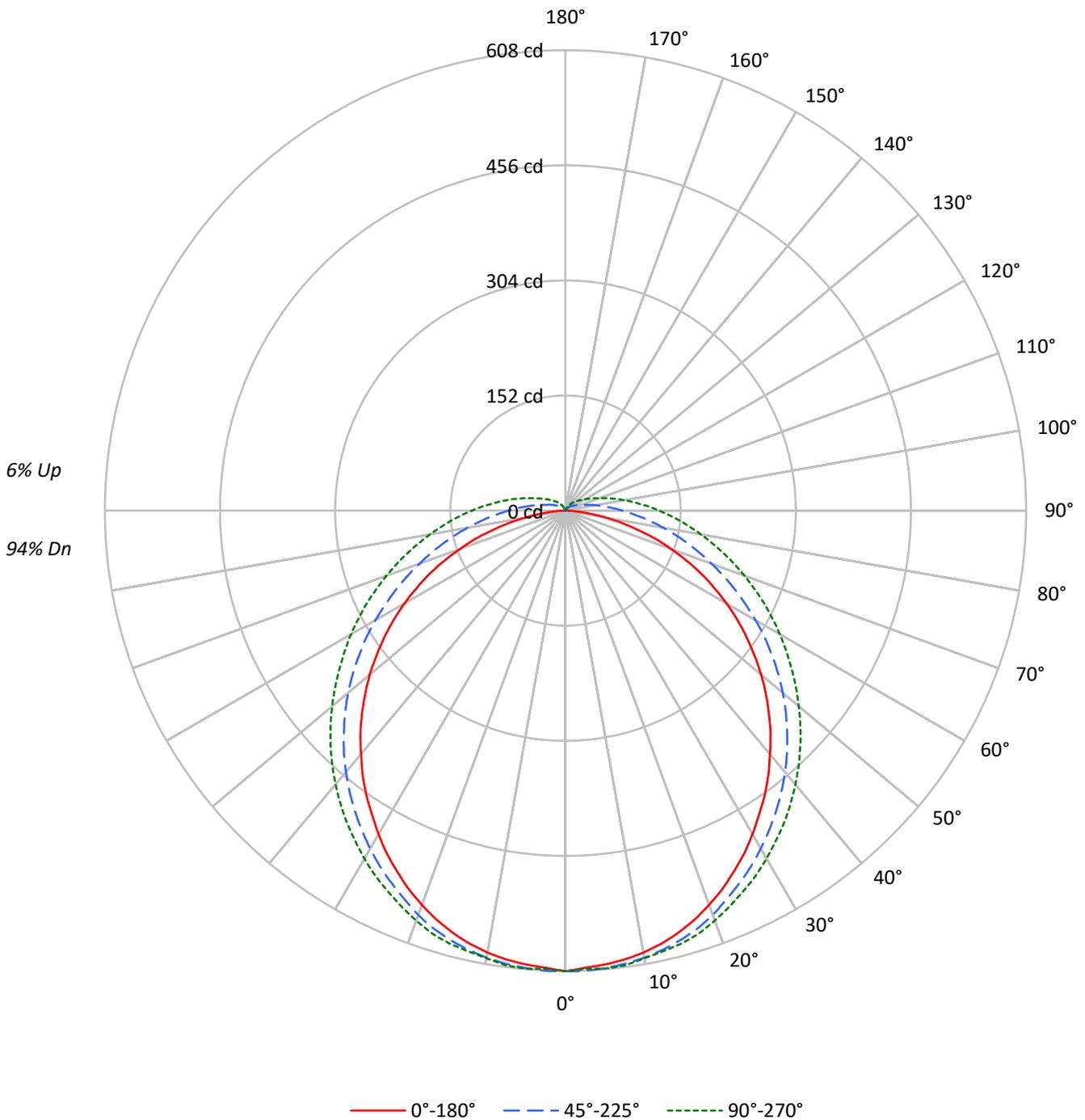
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2037.0 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
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

TEST NUMBER: P1357251
CATALOG NUMBER: 4ASL4-5-1-92765-UNV_6500K

Luminous Intensity Polar Plot





TEST NUMBER: P1357251

CATALOG NUMBER: 4ASL4-5-1-92765-UNV_6500K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4937	4937	4937
5°	4890	4839	4814
10°	4861	4740	4688
15°	4812	4635	4589
20°	4740	4516	4467
25°	4651	4374	4335
30°	4556	4244	4213
35°	4460	4111	4089
40°	4352	3977	3963
45°	4249	3831	3833
50°	4130	3677	3698
55°	3980	3504	3562
60°	3815	3325	3442
65°	3604	3135	3324
70°	3276	2935	3207
75°	2851	2758	3118
80°	2271	2606	3063
85°	1333	2504	3083

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4249 cd/sqm



TEST NUMBER: P1357251
 CATALOG NUMBER: 4ASL4-5-1-92765-UNV_6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.6	2.8
10°-20°	165.4	8.1
20°-30°	250.1	12.3
30°-40°	302.3	14.8
40°-50°	317.8	15.6
50°-60°	296.1	14.5
60°-70°	243.2	11.9
70°-80°	172.7	8.5
80°-90°	104.1	5.1
90°-100°	58.3	2.9
100°-110°	32.3	1.6
110°-120°	18.0	0.9
120°-130°	10.4	0.5
130°-140°	5.7	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°	473.1	23.2
0°-40°	775.4	38.1
0°-60°	1389.2	68.2
0°-90°	1909.2	93.7
90°-120°	108.6	5.3
90°-150°	127.2	6.2
90°-180°	128.0	6.3
0°-180°	2037.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	608	608	608	608	608	
5°	602	607	606	606	607	57
15°	577	584	587	590	592	163
25°	526	536	543	551	555	242
35°	458	470	484	497	503	287
45°	380	394	414	431	438	293
55°	292	308	332	354	364	261
65°	198	216	247	276	289	195
75°	100	125	167	201	215	107
85°	19	54	100	138	151	23
90°	0	32	75	110	123	1
95°	0	19	55	87	99	0
105°	0	7	29	52	62	0
115°	0	3	18	32	38	0
125°	0	2	11	21	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



TEST NUMBER: P1357251

CATALOG NUMBER: 4ASL4-5-1-92765-UNV_6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	608.4	608.4	608.4	608.4	608.4
2.5°	604.3	609.8	608.4	605.7	605.7
5°	601.6	607.1	606.4	605.7	607.1
7.5°	598.1	603.6	603.6	604.3	605.7
10°	592.6	599.5	599.5	599.5	600.2
12.5°	585.7	592.6	594.0	594.7	596.0
15°	576.8	584.3	587.1	589.9	591.9
17.5°	566.5	574.0	578.8	582.3	585.7
20°	554.1	562.3	568.5	572.6	576.1
22.5°	541.0	549.2	555.4	561.6	565.8
25°	525.8	535.5	543.0	550.6	554.7
27.5°	510.7	520.3	530.0	538.9	543.7
30°	493.5	504.5	515.5	525.8	530.7
32.5°	475.6	487.3	500.4	511.4	516.9
35°	458.4	470.1	484.5	496.9	503.1
37.5°	439.8	451.5	468.0	481.8	488.0
40°	419.8	432.9	450.8	465.3	472.2
42.5°	400.6	413.7	432.9	448.8	455.6
45°	379.9	393.7	413.7	430.9	438.4
47.5°	358.6	373.0	394.4	412.3	420.5
50°	337.3	352.4	374.4	393.7	402.0
52.5°	314.5	330.4	353.8	374.4	383.4
55°	291.8	308.3	332.4	354.5	364.1
57.5°	269.1	285.6	311.8	335.2	345.5
60°	245.7	262.9	289.8	315.2	326.9
62.5°	221.6	239.5	267.7	295.3	307.7
65°	198.2	216.1	247.1	276.0	289.1
67.5°	173.4	192.7	225.8	256.0	269.8
70°	148.0	170.0	205.1	237.5	251.2
72.5°	125.3	148.0	185.8	218.9	233.3
75°	99.8	125.3	166.6	201.0	215.4
77.5°	77.8	105.3	148.7	183.8	198.2
80°	55.8	86.0	131.5	167.3	181.7
82.5°	35.8	68.8	115.6	152.1	165.9
85°	18.6	53.7	100.5	137.7	151.4
87.5°	5.5	41.3	86.7	123.2	137.0
90°	0.0	31.7	75.0	110.1	123.2
92.5°	0.0	24.1	64.7	98.4	111.5
95°	0.0	18.6	55.1	86.7	99.1
97.5°	0.0	14.5	47.5	76.4	88.8
100°	0.0	11.7	40.6	67.5	79.2
102.5°	0.0	9.6	35.1	59.9	70.2
105°	0.0	6.9	28.9	52.3	61.9
107.5°	0.0	4.8	25.5	46.1	54.4
110°	0.0	4.1	22.7	39.9	48.2



TEST NUMBER: P1357251

CATALOG NUMBER: 4ASL4-5-1-92765-UNV_6500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	3.4	20.0	35.8	42.7
115°	0.0	3.4	17.9	31.7	37.9
117.5°	0.0	2.8	15.1	28.2	33.7
120°	0.0	2.8	13.8	25.5	30.3
122.5°	0.0	2.1	12.4	22.7	27.5
125°	0.0	2.1	11.0	20.6	24.1
127.5°	0.0	1.4	9.6	18.6	22.0
130°	0.0	1.4	8.9	16.5	20.0
132.5°	0.0	0.7	8.3	15.1	17.9
135°	0.0	0.7	6.9	13.1	16.5
137.5°	0.0	0.0	6.2	11.7	14.5
140°	0.0	0.0	4.8	10.3	13.1
142.5°	0.7	0.0	4.1	8.9	11.0
145°	0.7	0.0	2.8	7.6	9.6
147.5°	0.7	0.7	2.1	6.2	7.6
150°	0.7	0.7	1.4	4.1	6.2
152.5°	0.7	0.7	0.7	2.8	4.1
155°	0.7	0.7	0.0	2.1	2.8
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



TEST NUMBER: P1357251
 CATALOG NUMBER: 4ASL4-5-1-92765-UNV_6500K

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	14.95	16.50	15.41	16.95	17.41	16.93	18.49	17.39	18.93	19.40
	3H	16.44	17.86	16.92	18.31	18.82	19.35	20.76	19.82	21.21	21.72
	4H	16.92	18.26	17.41	18.73	19.25	20.51	21.85	21.00	22.32	22.84
	6H	17.20	18.45	17.70	18.93	19.47	21.72	22.97	22.22	23.45	23.99
	8H	17.25	18.45	17.77	18.95	19.50	22.34	23.54	22.86	24.04	24.59
	12H	17.26	18.41	17.79	18.91	19.49	23.02	24.17	23.55	24.67	25.25
4H	2H	15.82	17.16	16.31	17.63	18.15	17.37	18.71	17.86	19.18	19.70
	3H	17.55	18.69	18.05	19.20	19.75	20.00	21.14	20.51	21.66	22.20
	4H	18.14	19.19	18.67	19.71	20.29	21.34	22.38	21.86	22.91	23.48
	6H	18.54	19.46	19.09	20.01	20.61	22.73	23.66	23.28	24.21	24.80
	8H	18.63	19.50	19.19	20.05	20.66	23.46	24.33	24.01	24.88	25.48
	12H	18.68	19.46	19.25	20.04	20.65	24.26	25.05	24.84	25.63	26.24
8H	4H	18.80	19.66	19.35	20.21	20.82	21.55	22.42	22.10	22.97	23.57
	6H	19.36	20.10	19.95	20.69	21.30	23.11	23.85	23.70	24.44	25.05
	8H	19.54	20.20	20.14	20.81	21.43	23.98	24.64	24.57	25.24	25.87
	12H	19.65	20.24	20.25	20.83	21.53	24.96	25.56	25.56	26.15	26.84
12H	4H	18.98	19.76	19.55	20.34	20.95	21.56	22.34	22.13	22.92	23.53
	6H	19.64	20.30	20.23	20.91	21.53	23.15	23.81	23.74	24.42	25.04
	8H	19.91	20.50	20.51	21.09	21.78	24.08	24.67	24.68	25.26	25.95