

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: P1357117

Luminaire Tested: 4ASL4-10HE-2-92765-UNV\_2700K

Issue Date: 2/17/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1357117  
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: 4ASL4-10HE-2-92765-UNV\_2700K  
Description: 4FT 1000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 2700K LEDS 2 ROW  
Light Source: -  
Ballast/Driver: -

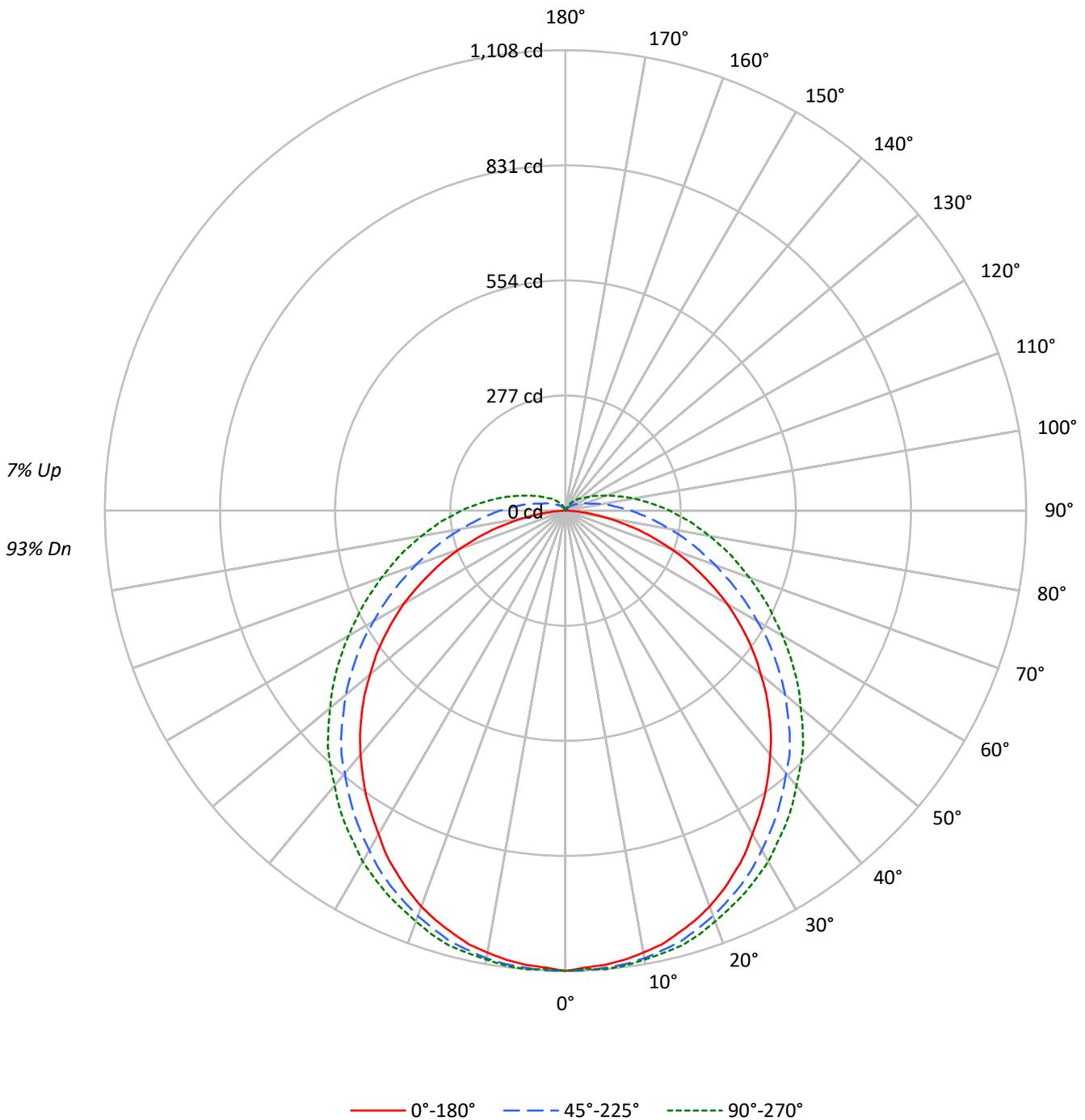
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3803.0 lumens  
Efficiency: N/A  
Efficacy: 108.3 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): 35.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P1357117  
CATALOG NUMBER: 4ASL4-10HE-2-92765-UNV\_2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P1357117  
 CATALOG NUMBER: 4ASL4-10HE-2-92765-UNV\_2700K

**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°	8990	8990	8990
5°	8918	8811	8784
10°	8858	8648	8570
15°	8777	8470	8399
20°	8672	8246	8157
25°	8506	8025	7950
30°	8297	7771	7743
35°	8134	7537	7503
40°	7945	7283	7251
45°	7753	7064	7067
50°	7506	6774	6794
55°	7269	6464	6577
60°	6978	6115	6347
65°	6524	5789	6168
70°	6014	5484	6004
75°	5273	5249	5950
80°	4110	5040	5930
85°	2494	5033	6102

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7753 cd/sqm



TEST NUMBER: P1357117  
 CATALOG NUMBER: 4ASL4-10HE-2-92765-UNV\_2700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.1	2.8
10°-20°	302.0	7.9
20°-30°	457.6	12.0
30°-40°	553.4	14.6
40°-50°	583.5	15.3
50°-60°	544.5	14.3
60°-70°	449.6	11.8
70°-80°	326.1	8.6
80°-90°	206.1	5.4
90°-100°	123.0	3.2
100°-110°	70.5	1.9
110°-120°	40.1	1.1
120°-130°	22.9	0.6
130°-140°	12.4	0.3
140°-150°	5.4	0.1
150°-160°	1.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	864.6	22.7
0°-40°	1418.1	37.3
0°-60°	2546.0	66.9
0°-90°	3527.8	92.8
90°-120°	233.6	6.1
90°-150°	274.2	7.2
90°-180°	275.0	7.2
0°-180°	3803.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1108	1108	1108	1108	1108	
5°	1097	1108	1104	1104	1108	104
15°	1052	1066	1073	1076	1083	297
25°	962	975	996	1010	1017	443
35°	836	857	888	913	923	523
45°	693	721	763	794	808	535
55°	533	564	613	655	672	476
65°	359	397	456	512	536	356
75°	185	233	317	383	411	194
85°	35	108	202	272	300	43
90°	0	66	157	223	251	1
95°	0	42	118	181	206	0
105°	0	14	66	115	132	0
115°	0	7	38	70	84	0
125°	0	4	24	45	52	0
135°	0	0	14	28	35	0
145°	0	0	7	17	21	0
155°	0	0	0	4	7	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P1357117  
 CATALOG NUMBER: 4ASL4-10HE-2-92765-UNV\_2700K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1107.8	1107.8	1107.8	1107.8	1107.8
2.5°	1100.8	1111.3	1107.8	1104.3	1104.3
5°	1097.3	1107.8	1104.3	1104.3	1107.8
7.5°	1090.4	1100.8	1100.8	1100.8	1104.3
10°	1079.9	1093.8	1093.8	1093.8	1097.3
12.5°	1069.5	1079.9	1083.4	1086.9	1090.4
15°	1052.0	1066.0	1072.9	1076.4	1083.4
17.5°	1034.6	1045.1	1055.5	1066.0	1069.5
20°	1013.7	1027.7	1038.1	1048.6	1052.0
22.5°	989.3	1003.3	1017.2	1027.7	1034.6
25°	961.5	975.4	996.3	1010.2	1017.2
27.5°	933.6	947.5	971.9	989.3	996.3
30°	898.8	919.7	944.0	964.9	975.4
32.5°	867.4	888.3	916.2	940.6	947.5
35°	836.1	857.0	888.3	912.7	923.1
37.5°	801.2	825.6	857.0	884.8	895.3
40°	766.4	790.8	825.6	857.0	863.9
42.5°	731.5	755.9	797.7	825.6	836.1
45°	693.2	721.1	762.9	794.3	808.2
47.5°	654.9	682.8	724.6	759.4	773.4
50°	613.1	644.5	689.7	724.6	738.5
52.5°	574.8	606.1	651.4	689.7	707.2
55°	533.0	564.3	613.1	654.9	672.3
57.5°	491.2	522.5	574.8	620.1	637.5
60°	449.4	480.7	533.0	585.2	602.7
62.5°	404.1	438.9	494.7	546.9	567.8
65°	358.8	397.1	456.3	512.1	536.5
67.5°	317.0	355.3	418.0	480.7	501.6
70°	271.7	313.5	383.2	445.9	470.3
72.5°	226.4	271.7	348.4	414.5	438.9
75°	184.6	233.4	317.0	383.2	411.1
77.5°	139.3	198.6	285.7	355.3	379.7
80°	101.0	163.7	254.3	327.5	351.8
82.5°	66.2	132.4	226.4	299.6	324.0
85°	34.8	108.0	202.0	271.7	299.6
87.5°	10.5	83.6	177.7	247.3	271.7
90°	0.0	66.2	156.8	222.9	250.8
92.5°	0.0	52.3	135.9	202.0	226.4
95°	0.0	41.8	118.4	181.1	205.5
97.5°	0.0	34.8	104.5	163.7	184.6
100°	0.0	27.9	90.6	146.3	167.2
102.5°	0.0	20.9	76.6	128.9	149.8
105°	0.0	13.9	66.2	115.0	132.4
107.5°	0.0	10.5	55.7	101.0	118.4
110°	0.0	10.5	52.3	87.1	104.5



TEST NUMBER: P1357117  
 CATALOG NUMBER: 4ASL4-10HE-2-92765-UNV\_2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	7.0	45.3	80.1	94.1
115°	0.0	7.0	38.3	69.7	83.6
117.5°	0.0	7.0	34.8	62.7	76.6
120°	0.0	7.0	31.4	55.7	66.2
122.5°	0.0	3.5	27.9	48.8	59.2
125°	0.0	3.5	24.4	45.3	52.3
127.5°	0.0	3.5	20.9	41.8	48.8
130°	0.0	3.5	20.9	38.3	45.3
132.5°	0.0	0.0	17.4	34.8	41.8
135°	0.0	0.0	13.9	27.9	34.8
137.5°	0.0	0.0	13.9	24.4	31.4
140°	0.0	0.0	10.5	24.4	27.9
142.5°	0.0	0.0	7.0	20.9	24.4
145°	0.0	0.0	7.0	17.4	20.9
147.5°	0.0	0.0	3.5	13.9	17.4
150°	0.0	0.0	3.5	10.5	13.9
152.5°	0.0	0.0	0.0	7.0	10.5
155°	0.0	0.0	0.0	3.5	7.0
157.5°	0.0	0.0	0.0	0.0	3.5
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



TEST NUMBER: P1357117  
 CATALOG NUMBER: 4ASL4-10HE-2-92765-UNV\_2700K

**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	16.94	18.48	17.41	18.94	19.43	19.00	20.54	19.47	21.00	21.49
	3H	18.44	19.84	18.93	20.31	20.85	21.45	22.85	21.94	23.32	23.85
	4H	18.92	20.25	19.43	20.74	21.28	22.66	23.99	23.17	24.48	25.02
	6H	19.20	20.44	19.72	20.94	21.50	23.93	25.17	24.45	25.67	26.23
	8H	19.25	20.44	19.78	20.96	21.53	24.59	25.78	25.12	26.30	26.87
	12H	19.27	20.40	19.81	20.92	21.52	25.32	26.46	25.86	26.98	27.57
4H	2H	17.82	19.15	18.33	19.64	20.18	19.43	20.76	19.94	21.25	21.79
	3H	19.56	20.70	20.08	21.23	21.79	22.11	23.25	22.63	23.78	24.34
	4H	20.17	21.21	20.71	21.75	22.35	23.50	24.53	24.04	25.07	25.67
	6H	20.57	21.49	21.13	22.06	22.67	24.97	25.88	25.53	26.45	27.06
	8H	20.67	21.53	21.24	22.10	22.73	25.73	26.60	26.30	27.16	27.79
	12H	20.72	21.50	21.30	22.10	22.73	26.59	27.37	27.17	27.97	28.60
8H	4H	20.87	21.73	21.43	22.30	22.92	23.72	24.58	24.28	25.15	25.77
	6H	21.45	22.19	22.05	22.79	23.43	25.36	26.09	25.96	26.70	27.33
	8H	21.64	22.30	22.25	22.92	23.56	26.27	26.93	26.88	27.55	28.20
	12H	21.76	22.35	22.37	22.96	23.67	27.31	27.90	27.92	28.51	29.22
12H	4H	21.07	21.85	21.65	22.45	23.08	23.73	24.51	24.31	25.10	25.74
	6H	21.76	22.42	22.37	23.04	23.68	25.40	26.06	26.01	26.68	27.32
	8H	22.05	22.64	22.66	23.24	23.95	26.38	26.97	26.99	27.58	28.29