

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: P1356814

Luminaire Tested: 2ASL4-10HE-2-92765-UNV_4000K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1356814
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: 2ASL4-10HE-2-92765-UNV_4000K
Description: 2FT 1000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 4000K LEDS 2 ROW
Light Source: -
Ballast/Driver: -

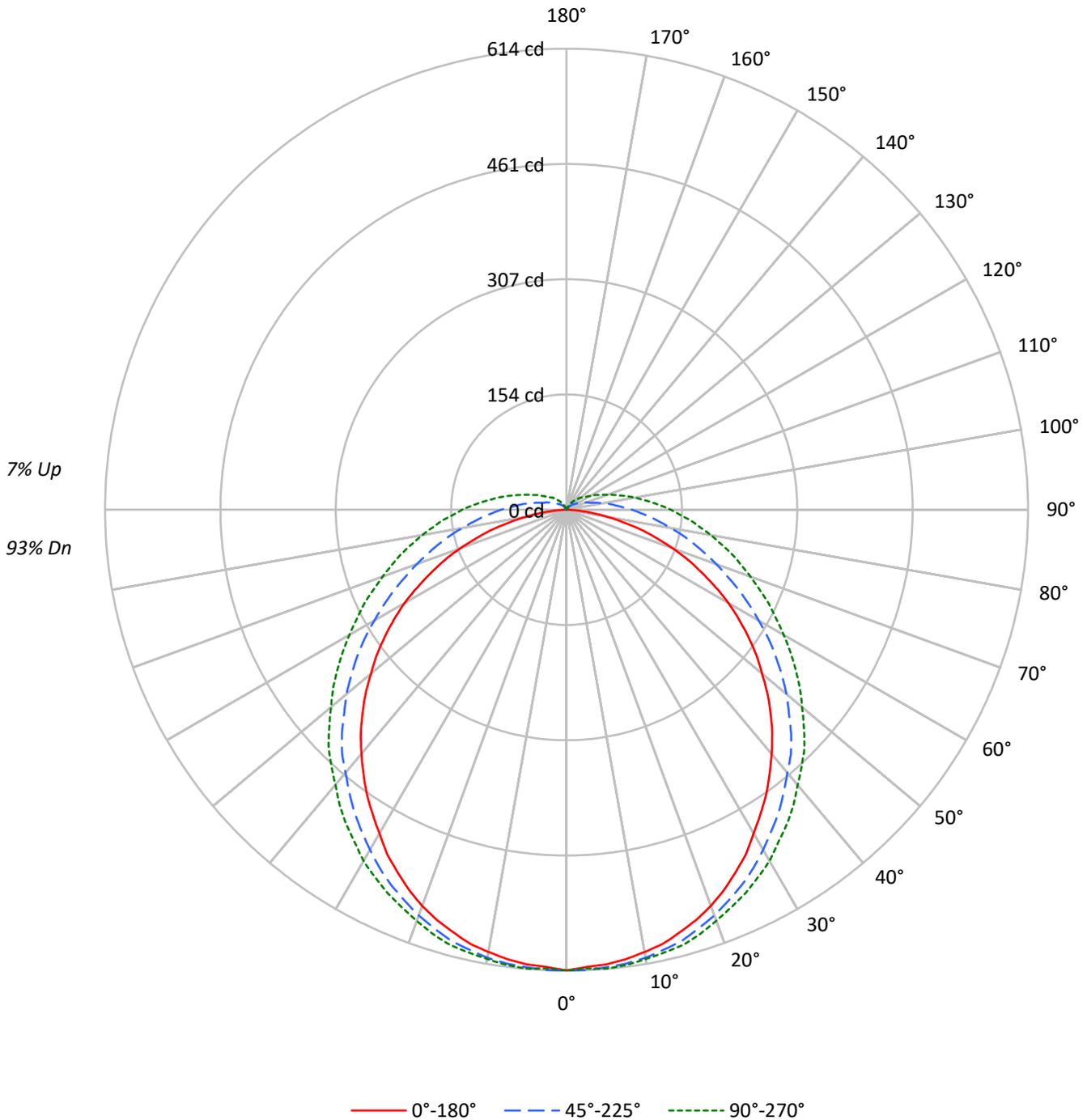
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2106.0 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 17.6
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°	10010	10010	10010
5°	9907	9794	9781
10°	9816	9598	9542
15°	9704	9388	9352
20°	9564	9125	9083
25°	9355	8865	8851
30°	9100	8572	8620
35°	8894	8298	8354
40°	8657	8004	8073
45°	8415	7748	7869
50°	8109	7415	7564
55°	7810	7056	7322
60°	7444	6656	7065
65°	6893	6279	6868
70°	6273	5922	6684
75°	5385	5634	6623
80°	4045	5369	6602
85°	2256	5302	6793

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8415 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.2	2.8
10°-20°	167.2	7.9
20°-30°	253.4	12.0
30°-40°	306.5	14.6
40°-50°	323.1	15.3
50°-60°	301.6	14.3
60°-70°	249.0	11.8
70°-80°	180.6	8.6
80°-90°	114.1	5.4
90°-100°	68.1	3.2
100°-110°	39.1	1.9
110°-120°	22.2	1.1
120°-130°	12.6	0.6
130°-140°	6.8	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°	478.8	22.7
0°-40°	785.3	37.3
0°-60°	1409.9	66.9
0°-90°	1953.7	92.8
90°-120°	129.4	6.1
90°-150°	151.8	7.2
90°-180°	152.0	7.2
0°-180°	2106.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	614	614	614	614	614	
5°	608	614	612	612	614	58
15°	583	590	594	596	600	164
25°	532	540	552	559	563	245
35°	463	475	492	505	511	289
45°	384	399	422	440	448	296
55°	295	312	340	363	372	264
65°	199	220	253	284	297	197
75°	102	129	176	212	228	108
85°	19	60	112	150	166	24
90°	0	37	87	124	139	1
95°	0	23	66	100	114	0
105°	0	8	37	64	73	0
115°	0	4	21	39	46	0
125°	0	2	14	25	29	0
135°	0	0	8	15	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°	613.5	613.5	613.5	613.5	613.5
2.5°	609.6	615.4	613.5	611.5	611.5
5°	607.7	613.5	611.5	611.5	613.5
7.5°	603.8	609.6	609.6	609.6	611.5
10°	598.0	605.7	605.7	605.7	607.7
12.5°	592.2	598.0	600.0	601.9	603.8
15°	582.6	590.3	594.2	596.1	600.0
17.5°	572.9	578.7	584.5	590.3	592.2
20°	561.4	569.1	574.9	580.7	582.6
22.5°	547.9	555.6	563.3	569.1	572.9
25°	532.4	540.1	551.7	559.4	563.3
27.5°	517.0	524.7	538.2	547.9	551.7
30°	497.7	509.3	522.8	534.4	540.1
32.5°	480.3	491.9	507.4	520.9	524.7
35°	463.0	474.6	491.9	505.4	511.2
37.5°	443.7	457.2	474.6	490.0	495.8
40°	424.4	437.9	457.2	474.6	478.4
42.5°	405.1	418.6	441.8	457.2	463.0
45°	383.9	399.3	422.5	439.8	447.6
47.5°	362.7	378.1	401.3	420.5	428.3
50°	339.5	356.9	382.0	401.3	409.0
52.5°	318.3	335.7	360.7	382.0	391.6
55°	295.2	312.5	339.5	362.7	372.3
57.5°	272.0	289.4	318.3	343.4	353.0
60°	248.9	266.2	295.2	324.1	333.7
62.5°	223.8	243.1	273.9	302.9	314.4
65°	198.7	219.9	252.7	283.6	297.1
67.5°	175.5	196.8	231.5	266.2	277.8
70°	150.5	173.6	212.2	246.9	260.4
72.5°	125.4	150.5	192.9	229.6	243.1
75°	102.2	129.3	175.5	212.2	227.6
77.5°	77.2	110.0	158.2	196.8	210.3
80°	55.9	90.7	140.8	181.3	194.8
82.5°	36.7	73.3	125.4	165.9	179.4
85°	19.3	59.8	111.9	150.5	165.9
87.5°	5.8	46.3	98.4	137.0	150.5
90°	0.0	36.7	86.8	123.5	138.9
92.5°	0.0	28.9	75.2	111.9	125.4
95°	0.0	23.1	65.6	100.3	113.8
97.5°	0.0	19.3	57.9	90.7	102.2
100°	0.0	15.4	50.2	81.0	92.6
102.5°	0.0	11.6	42.4	71.4	83.0
105°	0.0	7.7	36.7	63.7	73.3
107.5°	0.0	5.8	30.9	55.9	65.6
110°	0.0	5.8	28.9	48.2	57.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	3.9	25.1	44.4	52.1
115°	0.0	3.9	21.2	38.6	46.3
117.5°	0.0	3.9	19.3	34.7	42.4
120°	0.0	3.9	17.4	30.9	36.7
122.5°	0.0	1.9	15.4	27.0	32.8
125°	0.0	1.9	13.5	25.1	28.9
127.5°	0.0	1.9	11.6	23.1	27.0
130°	0.0	1.9	11.6	21.2	25.1
132.5°	0.0	0.0	9.6	19.3	23.1
135°	0.0	0.0	7.7	15.4	19.3
137.5°	0.0	0.0	7.7	13.5	17.4
140°	0.0	0.0	5.8	13.5	15.4
142.5°	0.0	0.0	3.9	11.6	13.5
145°	0.0	0.0	3.9	9.6	11.6
147.5°	0.0	0.0	1.9	7.7	9.6
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	17.28	18.82	17.76	19.28	19.77	19.26	20.80	19.73	21.26	21.75
	3H	18.79	20.19	19.27	20.66	21.19	21.68	23.08	22.16	23.55	24.08
	4H	19.27	20.60	19.78	21.09	21.63	22.86	24.18	23.36	24.67	25.21
	6H	19.55	20.78	20.07	21.28	21.84	24.08	25.31	24.60	25.81	26.37
	8H	19.60	20.79	20.13	21.31	21.88	24.70	25.88	25.23	26.41	26.97
	12H	19.62	20.75	20.15	21.27	21.87	25.37	26.50	25.90	27.02	27.62
4H	2H	18.15	19.48	18.65	19.96	20.51	19.70	21.02	20.20	21.51	22.06
	3H	19.89	21.02	20.41	21.55	22.12	22.34	23.47	22.86	24.00	24.57
	4H	20.50	21.54	21.04	22.08	22.68	23.70	24.73	24.23	25.27	25.87
	6H	20.90	21.82	21.46	22.39	23.00	25.12	26.03	25.67	26.60	27.21
	8H	21.00	21.86	21.57	22.43	23.06	25.84	26.71	26.41	27.27	27.90
	12H	21.05	21.83	21.64	22.43	23.06	26.64	27.42	27.22	28.01	28.65
8H	4H	21.18	22.04	21.74	22.61	23.23	23.92	24.78	24.48	25.35	25.97
	6H	21.76	22.49	22.36	23.10	23.73	25.52	26.25	26.11	26.86	27.49
	8H	21.95	22.61	22.56	23.23	23.87	26.39	27.05	27.00	27.67	28.31
	12H	22.07	22.66	22.68	23.27	23.98	27.37	27.96	27.98	28.57	29.28
12H	4H	21.37	22.15	21.95	22.75	23.38	23.93	24.71	24.52	25.31	25.94
	6H	22.06	22.72	22.66	23.34	23.98	25.56	26.22	26.16	26.84	27.48
	8H	22.34	22.93	22.95	23.54	24.25	26.50	27.09	27.11	27.70	28.41