

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: P1356812

Luminaire Tested: 2ASL4-10HE-2-92765-UNV_3000K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1356812
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_3000K
Description: 2FT 1000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 3000K LEDS 2 ROW
Light Source: -
Ballast/Driver: -

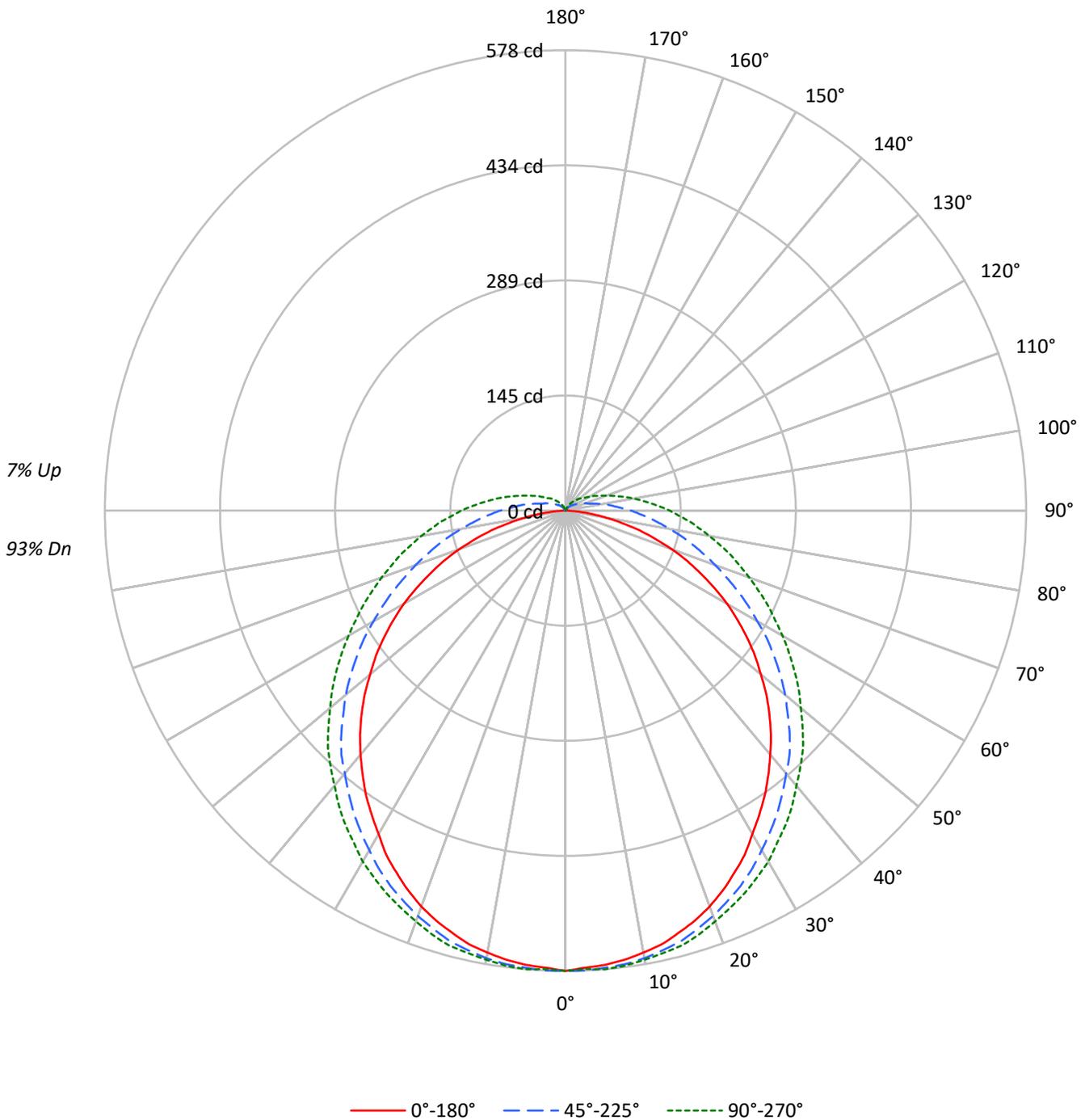
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1984.0 lumens
Efficiency: N/A
Efficacy: 112.7 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°	9429	9429	9429
5°	9334	9227	9213
10°	9248	9042	8990
15°	9141	8842	8809
20°	9011	8596	8556
25°	8814	8352	8339
30°	8574	8075	8122
35°	8379	7817	7870
40°	8155	7540	7605
45°	7929	7299	7412
50°	7641	6984	7126
55°	7358	6648	6898
60°	7010	6271	6656
65°	6494	5916	6470
70°	5910	5579	6296
75°	5074	5310	6239
80°	3813	5060	6223
85°	2127	4994	6400

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7929 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.8	2.8
10°-20°	157.5	7.9
20°-30°	238.7	12.0
30°-40°	288.7	14.6
40°-50°	304.4	15.3
50°-60°	284.1	14.3
60°-70°	234.6	11.8
70°-80°	170.2	8.6
80°-90°	107.5	5.4
90°-100°	64.2	3.2
100°-110°	36.8	1.9
110°-120°	20.9	1.1
120°-130°	11.9	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°	451.1	22.7
0°-40°	739.8	37.3
0°-60°	1328.3	66.9
0°-90°	1840.5	92.8
90°-120°	121.8	6.1
90°-150°	143.0	7.2
90°-180°	144.0	7.3
0°-180°	1984.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	578	578	578	578	578	
5°	572	578	576	576	578	54
15°	549	556	560	562	565	155
25°	502	509	520	527	531	231
35°	436	447	463	476	482	273
45°	362	376	398	414	422	279
55°	278	294	320	342	351	249
65°	187	207	238	267	280	186
75°	96	122	165	200	214	101
85°	18	56	105	142	156	22
90°	0	34	82	116	131	1
95°	0	22	62	94	107	0
105°	0	7	34	60	69	0
115°	0	4	20	36	44	0
125°	0	2	13	24	27	0
135°	0	0	7	14	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°	577.9	577.9	577.9	577.9	577.9
2.5°	574.3	579.7	577.9	576.1	576.1
5°	572.5	577.9	576.1	576.1	577.9
7.5°	568.8	574.3	574.3	574.3	576.1
10°	563.4	570.6	570.6	570.6	572.5
12.5°	557.9	563.4	565.2	567.0	568.8
15°	548.8	556.1	559.7	561.6	565.2
17.5°	539.8	545.2	550.7	556.1	557.9
20°	528.9	536.1	541.6	547.0	548.8
22.5°	516.1	523.4	530.7	536.1	539.8
25°	501.6	508.9	519.8	527.0	530.7
27.5°	487.1	494.3	507.0	516.1	519.8
30°	468.9	479.8	492.5	503.4	508.9
32.5°	452.5	463.4	478.0	490.7	494.3
35°	436.2	447.1	463.4	476.1	481.6
37.5°	418.0	430.7	447.1	461.6	467.1
40°	399.8	412.5	430.7	447.1	450.7
42.5°	381.6	394.4	416.2	430.7	436.2
45°	361.7	376.2	398.0	414.4	421.6
47.5°	341.7	356.2	378.0	396.2	403.5
50°	319.9	336.2	359.8	378.0	385.3
52.5°	299.9	316.2	339.8	359.8	368.9
55°	278.1	294.4	319.9	341.7	350.7
57.5°	256.2	272.6	299.9	323.5	332.6
60°	234.4	250.8	278.1	305.3	314.4
62.5°	210.8	229.0	258.1	285.3	296.2
65°	187.2	207.2	238.1	267.2	279.9
67.5°	165.4	185.4	218.1	250.8	261.7
70°	141.8	163.6	199.9	232.6	245.3
72.5°	118.1	141.8	181.7	216.3	229.0
75°	96.3	121.8	165.4	199.9	214.4
77.5°	72.7	103.6	149.0	185.4	198.1
80°	52.7	85.4	132.7	170.8	183.6
82.5°	34.5	69.1	118.1	156.3	169.0
85°	18.2	56.3	105.4	141.8	156.3
87.5°	5.5	43.6	92.7	129.0	141.8
90°	0.0	34.5	81.8	116.3	130.8
92.5°	0.0	27.3	70.9	105.4	118.1
95°	0.0	21.8	61.8	94.5	107.2
97.5°	0.0	18.2	54.5	85.4	96.3
100°	0.0	14.5	47.3	76.3	87.2
102.5°	0.0	10.9	40.0	67.2	78.1
105°	0.0	7.3	34.5	60.0	69.1
107.5°	0.0	5.5	29.1	52.7	61.8
110°	0.0	5.5	27.3	45.4	54.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	3.6	23.6	41.8	49.1
115°	0.0	3.6	20.0	36.3	43.6
117.5°	0.0	3.6	18.2	32.7	40.0
120°	0.0	3.6	16.4	29.1	34.5
122.5°	0.0	1.8	14.5	25.4	30.9
125°	0.0	1.8	12.7	23.6	27.3
127.5°	0.0	1.8	10.9	21.8	25.4
130°	0.0	1.8	10.9	20.0	23.6
132.5°	0.0	0.0	9.1	18.2	21.8
135°	0.0	0.0	7.3	14.5	18.2
137.5°	0.0	0.0	7.3	12.7	16.4
140°	0.0	0.0	5.5	12.7	14.5
142.5°	0.0	0.0	3.6	10.9	12.7
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	17.08	18.61	17.55	19.07	19.56	19.05	20.59	19.53	21.05	21.54
	3H	18.58	19.98	19.07	20.45	20.98	21.47	22.87	21.95	23.34	23.87
	4H	19.06	20.39	19.57	20.88	21.42	22.65	23.98	23.15	24.46	25.01
	6H	19.34	20.58	19.86	21.08	21.64	23.87	25.11	24.39	25.61	26.17
	8H	19.39	20.58	19.92	21.10	21.67	24.49	25.68	25.02	26.20	26.77
	12H	19.41	20.55	19.95	21.06	21.66	25.16	26.30	25.70	26.81	27.41
4H	2H	17.94	19.27	18.45	19.76	20.30	19.49	20.82	20.00	21.30	21.85
	3H	19.68	20.82	20.20	21.35	21.91	22.13	23.27	22.65	23.80	24.36
	4H	20.29	21.33	20.83	21.87	22.47	23.49	24.52	24.03	25.07	25.66
	6H	20.70	21.61	21.26	22.18	22.79	24.91	25.82	25.47	26.39	27.00
	8H	20.79	21.66	21.36	22.22	22.85	25.64	26.50	26.20	27.07	27.69
	12H	20.84	21.63	21.43	22.22	22.85	26.43	27.21	27.02	27.81	28.44
8H	4H	20.97	21.83	21.53	22.40	23.02	23.71	24.57	24.28	25.14	25.77
	6H	21.56	22.29	22.15	22.90	23.53	25.31	26.04	25.91	26.65	27.28
	8H	21.74	22.40	22.35	23.02	23.67	26.18	26.84	26.79	27.46	28.10
	12H	21.87	22.46	22.48	23.06	23.77	27.16	27.75	27.77	28.36	29.07
12H	4H	21.16	21.94	21.75	22.54	23.17	23.72	24.50	24.31	25.10	25.73
	6H	21.85	22.51	22.46	23.13	23.77	25.35	26.01	25.96	26.63	27.27
	8H	22.14	22.72	22.75	23.33	24.04	26.29	26.88	26.90	27.49	28.20