

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: P1357107

Luminaire Tested: 4ASL4-10-1-92765-UNV_6500K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357107
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: 4ASL4-10-1-92765-UNV_6500K
Description: 4FT 1000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 6500K LEDS 1 ROW
Light Source: -
Ballast/Driver: -

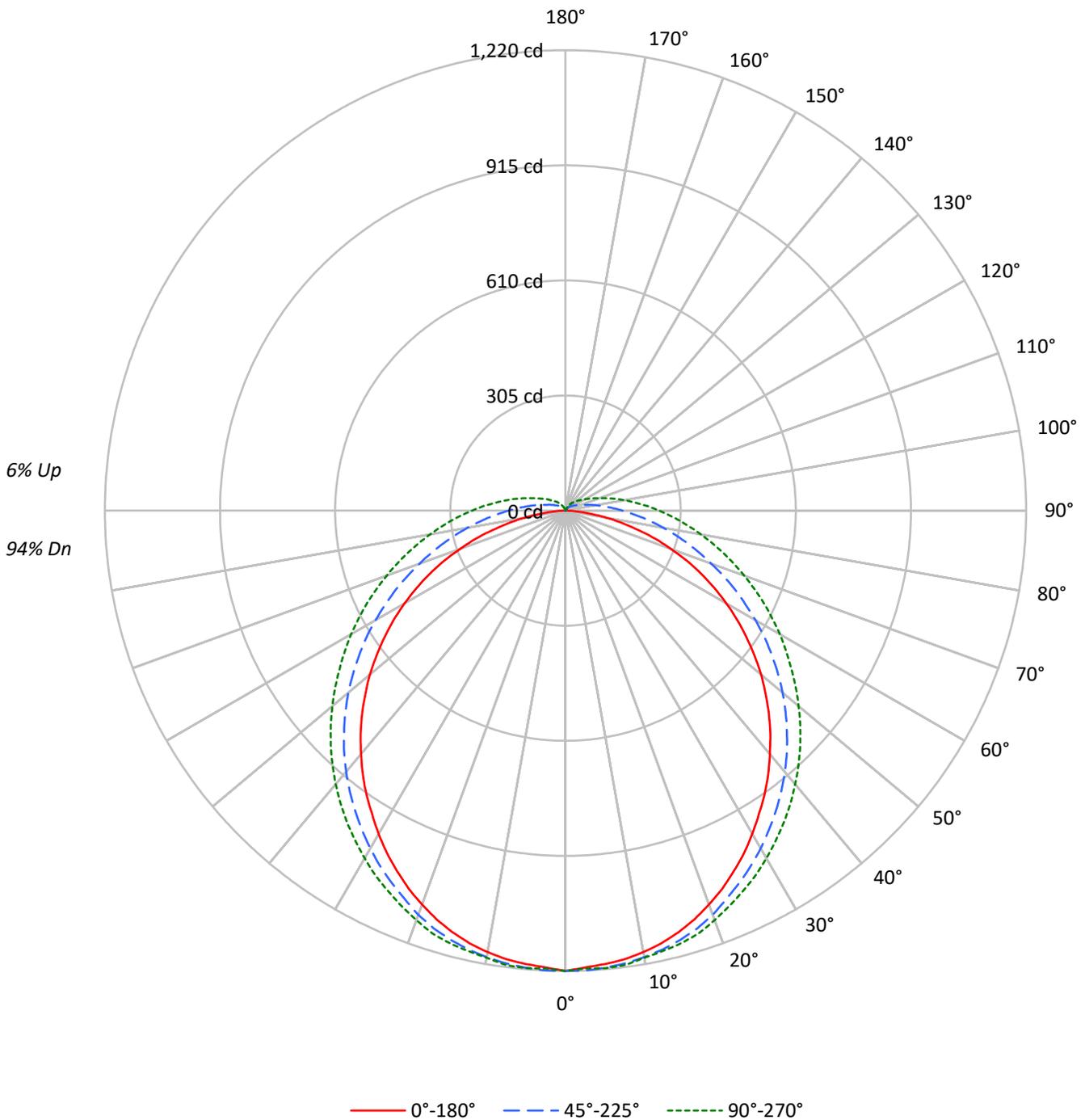
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4084.0 lumens
Efficiency: N/A
Efficacy: 113.4 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): 36
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	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°	9900	9900	9900
5°	9803	9700	9651
10°	9746	9503	9398
15°	9648	9293	9200
20°	9502	9054	8956
25°	9327	8770	8692
30°	9133	8509	8446
35°	8941	8242	8199
40°	8726	7973	7945
45°	8519	7679	7686
50°	8279	7373	7414
55°	7980	7027	7141
60°	7648	6664	6903
65°	7225	6285	6664
70°	6568	5885	6430
75°	5716	5528	6251
80°	4549	5224	6141
85°	2673	5020	6183

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8519 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.5	2.8
10°-20°	331.6	8.1
20°-30°	501.4	12.3
30°-40°	606.0	14.8
40°-50°	637.2	15.6
50°-60°	593.6	14.5
60°-70°	487.7	11.9
70°-80°	346.2	8.5
80°-90°	208.7	5.1
90°-100°	116.9	2.9
100°-110°	64.8	1.6
110°-120°	36.1	0.9
120°-130°	20.8	0.5
130°-140°	11.4	0.3
140°-150°	5.0	0.1
150°-160°	1.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	948.5	23.2
0°-40°	1554.5	38.1
0°-60°	2785.3	68.2
0°-90°	3827.8	93.7
90°-120°	217.8	5.3
90°-150°	255.0	6.2
90°-180°	256.0	6.3
0°-180°	4084.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1220	1220	1220	1220	1220	
5°	1206	1217	1216	1214	1217	115
15°	1156	1172	1177	1183	1187	326
25°	1054	1074	1089	1104	1112	486
35°	919	942	972	996	1009	575
45°	762	789	829	864	879	587
55°	585	618	666	711	730	523
65°	397	433	495	553	580	392
75°	200	251	334	403	432	214
85°	37	108	202	276	304	46
90°	0	64	150	221	247	2
95°	0	37	110	174	199	0
105°	0	14	58	105	124	0
115°	0	7	36	64	76	0
125°	0	4	22	41	48	0
135°	0	1	14	26	33	0
145°	1	0	6	15	19	1
155°	1	1	0	4	6	1
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°	1219.9	1219.9	1219.9	1219.9	1219.9
2.5°	1211.6	1222.6	1219.9	1214.3	1214.3
5°	1206.1	1217.1	1215.7	1214.3	1217.1
7.5°	1199.2	1210.2	1210.2	1211.6	1214.3
10°	1188.1	1201.9	1201.9	1201.9	1203.3
12.5°	1174.3	1188.1	1190.9	1192.3	1195.0
15°	1156.4	1171.6	1177.1	1182.6	1186.7
17.5°	1135.7	1150.9	1160.5	1167.4	1174.3
20°	1110.8	1127.4	1139.8	1148.1	1155.0
22.5°	1084.6	1101.2	1113.6	1126.0	1134.3
25°	1054.3	1073.6	1088.8	1103.9	1112.2
27.5°	1023.9	1043.2	1062.5	1080.5	1090.1
30°	989.4	1011.5	1033.6	1054.3	1063.9
32.5°	953.5	977.0	1003.2	1025.3	1036.3
35°	919.0	942.5	971.5	996.3	1008.7
37.5°	881.8	905.2	938.4	965.9	978.4
40°	841.8	868.0	903.9	932.8	946.6
42.5°	803.1	829.3	868.0	899.7	913.5
45°	761.7	789.3	829.3	863.8	879.0
47.5°	718.9	747.9	790.7	826.6	843.1
50°	676.2	706.5	750.7	789.3	805.9
52.5°	630.6	662.4	709.3	750.7	768.6
55°	585.1	618.2	666.5	710.7	730.0
57.5°	539.6	572.7	625.1	672.0	692.7
60°	492.6	527.1	580.9	632.0	655.5
62.5°	444.3	480.2	536.8	592.0	616.8
65°	397.4	433.3	495.4	553.4	579.6
67.5°	347.7	386.4	452.6	513.3	540.9
70°	296.7	340.8	411.2	476.1	503.7
72.5°	251.1	296.7	372.6	438.8	467.8
75°	200.1	251.1	333.9	402.9	431.9
77.5°	155.9	211.1	298.1	368.4	397.4
80°	111.8	172.5	263.6	335.3	364.3
82.5°	71.8	138.0	231.8	305.0	332.6
85°	37.3	107.6	201.5	276.0	303.6
87.5°	11.0	82.8	173.9	247.0	274.6
90°	0.0	63.5	150.4	220.8	247.0
92.5°	0.0	48.3	129.7	197.3	223.5
95°	0.0	37.3	110.4	173.9	198.7
97.5°	0.0	29.0	95.2	153.2	178.0
100°	0.0	23.5	81.4	135.2	158.7
102.5°	0.0	19.3	70.4	120.1	140.8
105°	0.0	13.8	58.0	104.9	124.2
107.5°	0.0	9.7	51.1	92.5	109.0
110°	0.0	8.3	45.5	80.0	96.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	6.9	40.0	71.8	85.6
115°	0.0	6.9	35.9	63.5	75.9
117.5°	0.0	5.5	30.4	56.6	67.6
120°	0.0	5.5	27.6	51.1	60.7
122.5°	0.0	4.1	24.8	45.5	55.2
125°	0.0	4.1	22.1	41.4	48.3
127.5°	0.0	2.8	19.3	37.3	44.2
130°	0.0	2.8	17.9	33.1	40.0
132.5°	0.0	1.4	16.6	30.4	35.9
135°	0.0	1.4	13.8	26.2	33.1
137.5°	0.0	0.0	12.4	23.5	29.0
140°	0.0	0.0	9.7	20.7	26.2
142.5°	1.4	0.0	8.3	17.9	22.1
145°	1.4	0.0	5.5	15.2	19.3
147.5°	1.4	1.4	4.1	12.4	15.2
150°	1.4	1.4	2.8	8.3	12.4
152.5°	1.4	1.4	1.4	5.5	8.3
155°	1.4	1.4	0.0	4.1	5.5
157.5°	1.4	1.4	0.0	1.4	2.8
160°	1.4	1.4	0.0	0.0	1.4
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	17.37	18.92	17.83	19.36	19.83	19.35	20.90	19.81	21.35	21.81
	3H	18.86	20.28	19.33	20.73	21.24	21.76	23.18	22.23	23.63	24.14
	4H	19.34	20.68	19.83	21.15	21.67	22.93	24.27	23.42	24.74	25.26
	6H	19.61	20.86	20.12	21.35	21.89	24.14	25.38	24.64	25.87	26.41
	8H	19.67	20.86	20.18	21.37	21.91	24.76	25.95	25.27	26.46	27.00
	12H	19.68	20.83	20.20	21.33	21.90	25.44	26.59	25.96	27.09	27.66
4H	2H	18.23	19.57	18.73	20.04	20.57	19.79	21.13	20.28	21.60	22.12
	3H	19.96	21.10	20.47	21.62	22.16	22.42	23.56	22.93	24.07	24.62
	4H	20.56	21.61	21.09	22.13	22.71	23.75	24.80	24.28	25.32	25.90
	6H	20.96	21.88	21.50	22.43	23.02	25.15	26.07	25.70	26.62	27.22
	8H	21.05	21.92	21.60	22.47	23.07	25.88	26.74	26.43	27.29	27.90
	12H	21.09	21.88	21.67	22.46	23.07	26.68	27.47	27.25	28.05	28.66
8H	4H	21.21	22.08	21.76	22.63	23.24	23.97	24.83	24.52	25.38	25.99
	6H	21.78	22.52	22.36	23.11	23.72	25.53	26.26	26.11	26.86	27.47
	8H	21.96	22.62	22.55	23.23	23.85	26.39	27.05	26.99	27.66	28.28
	12H	22.07	22.66	22.66	23.25	23.94	27.38	27.97	27.98	28.57	29.26
12H	4H	21.39	22.18	21.97	22.76	23.37	23.97	24.76	24.55	25.34	25.95
	6H	22.05	22.72	22.65	23.32	23.95	25.56	26.23	26.16	26.83	27.46
	8H	22.32	22.92	22.92	23.51	24.20	26.50	27.09	27.09	27.68	28.37