

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: P1357105

Luminaire Tested: 4ASL4-10-1-92765-UNV_4000K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357105
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_4000K
Description: 4FT 1000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 4000K LEDS 1 ROW
Light Source: -
Ballast/Driver: -

Summary

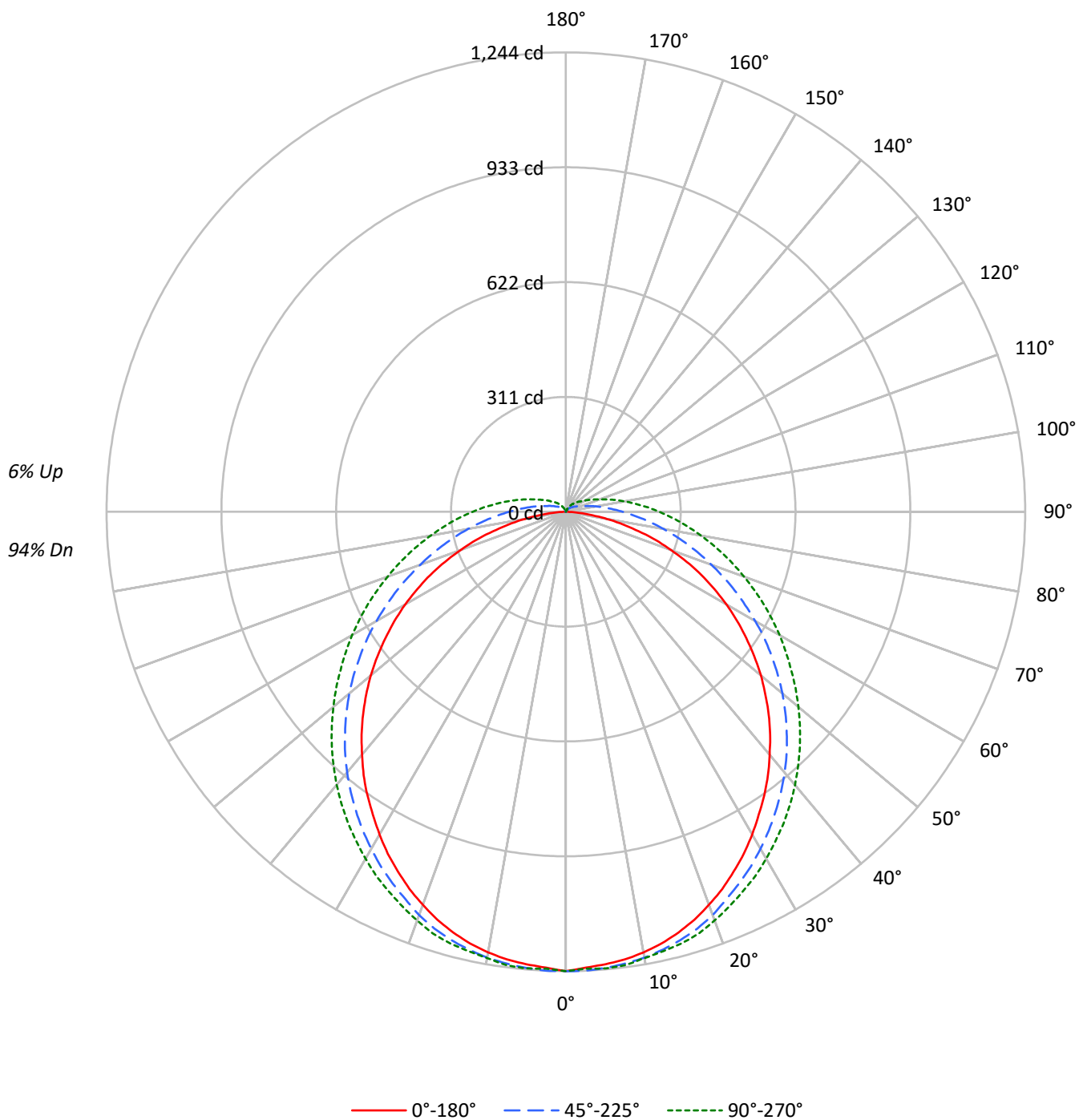
Lumens per Lamp: N/A
Luminaire Lumens: 4165.0 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 36
Input Voltage (V): NR
Input Current (Ain): 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
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	118	118	118	118	114	114	114	114	108	108	108		102	102	102		96
1	106	100	95	91	102	97	93	89	92	88	85		87	84	81		82
2	95	86	79	73	92	84	77	71	79	74	69		75	70	66		71
3	87	76	67	60	84	73	65	59	69	63	57		66	60	55		62
4	79	67	57	50	76	65	56	50	62	54	48		58	52	47		56
5	73	59	50	43	70	58	49	43	55	47	42		52	46	41		50
6	67	53	44	38	65	52	43	37	50	42	36		47	41	35		45
7	62	48	39	33	60	47	39	33	45	37	32		43	36	31		41
8	58	44	35	29	56	43	35	29	41	34	29		39	33	28		38
9	54	40	32	26	52	39	32	26	38	31	26		36	30	25		35
10	51	37	29	24	49	36	29	24	35	28	23		34	27	23		32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10096	10096	10096
5°	9997	9892	9842
10°	9939	9692	9585
15°	9839	9477	9383
20°	9691	9234	9134
25°	9511	8944	8865
30°	9314	8678	8613
35°	9119	8405	8362
40°	8899	8131	8103
45°	8688	7831	7838
50°	8443	7520	7561
55°	8138	7166	7283
60°	7801	6797	7040
65°	7369	6409	6796
70°	6698	6002	6558
75°	5830	5639	6376
80°	4639	5327	6263
85°	2723	5120	6305

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8688 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	2.8
10°-20°	338.2	8.1
20°-30°	511.3	12.3
30°-40°	618.1	14.8
40°-50°	649.8	15.6
50°-60°	605.4	14.5
60°-70°	497.3	11.9
70°-80°	353.0	8.5
80°-90°	212.8	5.1
90°-100°	119.2	2.9
100°-110°	66.0	1.6
110°-120°	36.8	0.9
120°-130°	21.2	0.5
130°-140°	11.6	0.3
140°-150°	5.1	0.1
150°-160°	1.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	967.3	23.2
0°-40°	1585.4	38.1
0°-60°	2840.6	68.2
0°-90°	3903.8	93.7
90°-120°	222.1	5.3
90°-150°	260.0	6.2
90°-180°	261.0	6.3
0°-180°	4165.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1244	1244	1244	1244	1244	
5°	1230	1241	1240	1238	1241	117
15°	1179	1195	1200	1206	1210	332
25°	1075	1095	1110	1126	1134	495
35°	937	961	991	1016	1029	586
45°	777	805	846	881	896	599
55°	597	630	680	725	744	534
65°	405	442	505	564	591	400
75°	204	256	341	411	440	218
85°	38	110	206	282	310	47
90°	0	65	153	225	252	2
95°	0	38	113	177	203	0
105°	0	14	59	107	127	0
115°	0	7	37	65	77	0
125°	0	4	22	42	49	0
135°	0	1	14	27	34	0
145°	1	0	6	16	20	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°	1244.1	1244.1	1244.1	1244.1	1244.1
2.5°	1235.6	1246.9	1244.1	1238.4	1238.4
5°	1230.0	1241.2	1239.8	1238.4	1241.2
7.5°	1222.9	1234.2	1234.2	1235.6	1238.4
10°	1211.7	1225.8	1225.8	1225.8	1227.2
12.5°	1197.6	1211.7	1214.5	1215.9	1218.7
15°	1179.3	1194.8	1200.4	1206.1	1210.3
17.5°	1158.2	1173.7	1183.5	1190.6	1197.6
20°	1132.9	1149.8	1162.4	1170.9	1177.9
22.5°	1106.1	1123.0	1135.7	1148.4	1156.8
25°	1075.2	1094.9	1110.4	1125.8	1134.3
27.5°	1044.2	1063.9	1083.6	1101.9	1111.8
30°	1009.0	1031.5	1054.1	1075.2	1085.0
32.5°	972.4	996.4	1023.1	1045.6	1056.9
35°	937.3	961.2	990.7	1016.1	1028.7
37.5°	899.3	923.2	957.0	985.1	997.8
40°	858.5	885.2	921.8	951.3	965.4
42.5°	819.0	845.8	885.2	917.6	931.6
45°	776.8	805.0	845.8	881.0	896.4
47.5°	733.2	762.8	806.4	843.0	859.9
50°	689.6	720.5	765.6	805.0	821.9
52.5°	643.1	675.5	723.4	765.6	783.9
55°	596.7	630.5	679.7	724.8	744.5
57.5°	550.3	584.0	637.5	685.4	706.5
60°	502.4	537.6	592.5	644.5	668.5
62.5°	453.1	489.7	547.4	603.7	629.1
65°	405.3	441.9	505.2	564.3	591.1
67.5°	354.6	394.0	461.6	523.5	551.7
70°	302.6	347.6	419.4	485.5	513.7
72.5°	256.1	302.6	380.0	447.5	477.1
75°	204.1	256.1	340.6	410.9	440.5
77.5°	159.0	215.3	304.0	375.7	405.3
80°	114.0	175.9	268.8	342.0	371.5
82.5°	73.2	140.7	236.4	311.0	339.2
85°	38.0	109.8	205.5	281.5	309.6
87.5°	11.3	84.4	177.3	251.9	280.1
90°	0.0	64.7	153.4	225.2	251.9
92.5°	0.0	49.3	132.3	201.2	228.0
95°	0.0	38.0	112.6	177.3	202.7
97.5°	0.0	29.6	97.1	156.2	181.5
100°	0.0	23.9	83.0	137.9	161.8
102.5°	0.0	19.7	71.8	122.4	143.5
105°	0.0	14.1	59.1	107.0	126.7
107.5°	0.0	9.9	52.1	94.3	111.2
110°	0.0	8.4	46.4	81.6	98.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	7.0	40.8	73.2	87.3
115°	0.0	7.0	36.6	64.7	77.4
117.5°	0.0	5.6	31.0	57.7	69.0
120°	0.0	5.6	28.1	52.1	61.9
122.5°	0.0	4.2	25.3	46.4	56.3
125°	0.0	4.2	22.5	42.2	49.3
127.5°	0.0	2.8	19.7	38.0	45.0
130°	0.0	2.8	18.3	33.8	40.8
132.5°	0.0	1.4	16.9	31.0	36.6
135°	0.0	1.4	14.1	26.7	33.8
137.5°	0.0	0.0	12.7	23.9	29.6
140°	0.0	0.0	9.9	21.1	26.7
142.5°	1.4	0.0	8.4	18.3	22.5
145°	1.4	0.0	5.6	15.5	19.7
147.5°	1.4	1.4	4.2	12.7	15.5
150°	1.4	1.4	2.8	8.4	12.7
152.5°	1.4	1.4	1.4	5.6	8.4
155°	1.4	1.4	0.0	4.2	5.6
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	17.44	18.99	17.90	19.43	19.90	19.42	20.97	19.88	21.41	21.88
	3H	18.93	20.34	19.40	20.80	21.31	21.83	23.25	22.30	23.70	24.21
	4H	19.41	20.75	19.90	21.22	21.74	23.00	24.34	23.49	24.81	25.33
	6H	19.68	20.93	20.19	21.41	21.95	24.20	25.45	24.71	25.94	26.47
	8H	19.73	20.93	20.25	21.44	21.98	24.82	26.02	25.34	26.53	27.07
	12H	19.75	20.89	20.27	21.40	21.97	25.51	26.65	26.03	27.16	27.73
4H	2H	18.30	19.64	18.80	20.11	20.64	19.86	21.20	20.35	21.67	22.19
	3H	20.03	21.17	20.54	21.69	22.23	22.49	23.63	22.99	24.14	24.69
	4H	20.63	21.67	21.16	22.20	22.78	23.82	24.87	24.35	25.39	25.97
	6H	21.03	21.95	21.57	22.50	23.09	25.22	26.14	25.76	26.69	27.28
	8H	21.12	21.99	21.67	22.54	23.14	25.94	26.81	26.49	27.36	27.97
	12H	21.16	21.95	21.73	22.53	23.14	26.75	27.54	27.32	28.12	28.73
8H	4H	21.28	22.15	21.83	22.70	23.30	24.03	24.90	24.59	25.45	26.06
	6H	21.85	22.58	22.43	23.18	23.79	25.60	26.33	26.18	26.92	27.54
	8H	22.03	22.69	22.62	23.29	23.92	26.46	27.12	27.06	27.73	28.35
	12H	22.14	22.73	22.73	23.32	24.01	27.45	28.04	28.05	28.63	29.32
12H	4H	21.46	22.25	22.03	22.83	23.44	24.04	24.83	24.62	25.41	26.02
	6H	22.12	22.79	22.72	23.39	24.01	25.63	26.30	26.23	26.90	27.52
	8H	22.39	22.98	22.99	23.58	24.27	26.56	27.16	27.16	27.75	28.44