

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: P1357104

Luminaire Tested: 4ASL4-10-1-92765-UNV_3500K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357104
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_3500K
Description: 4FT 1000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 3500K LEDS 1 ROW
Light Source: -
Ballast/Driver: -

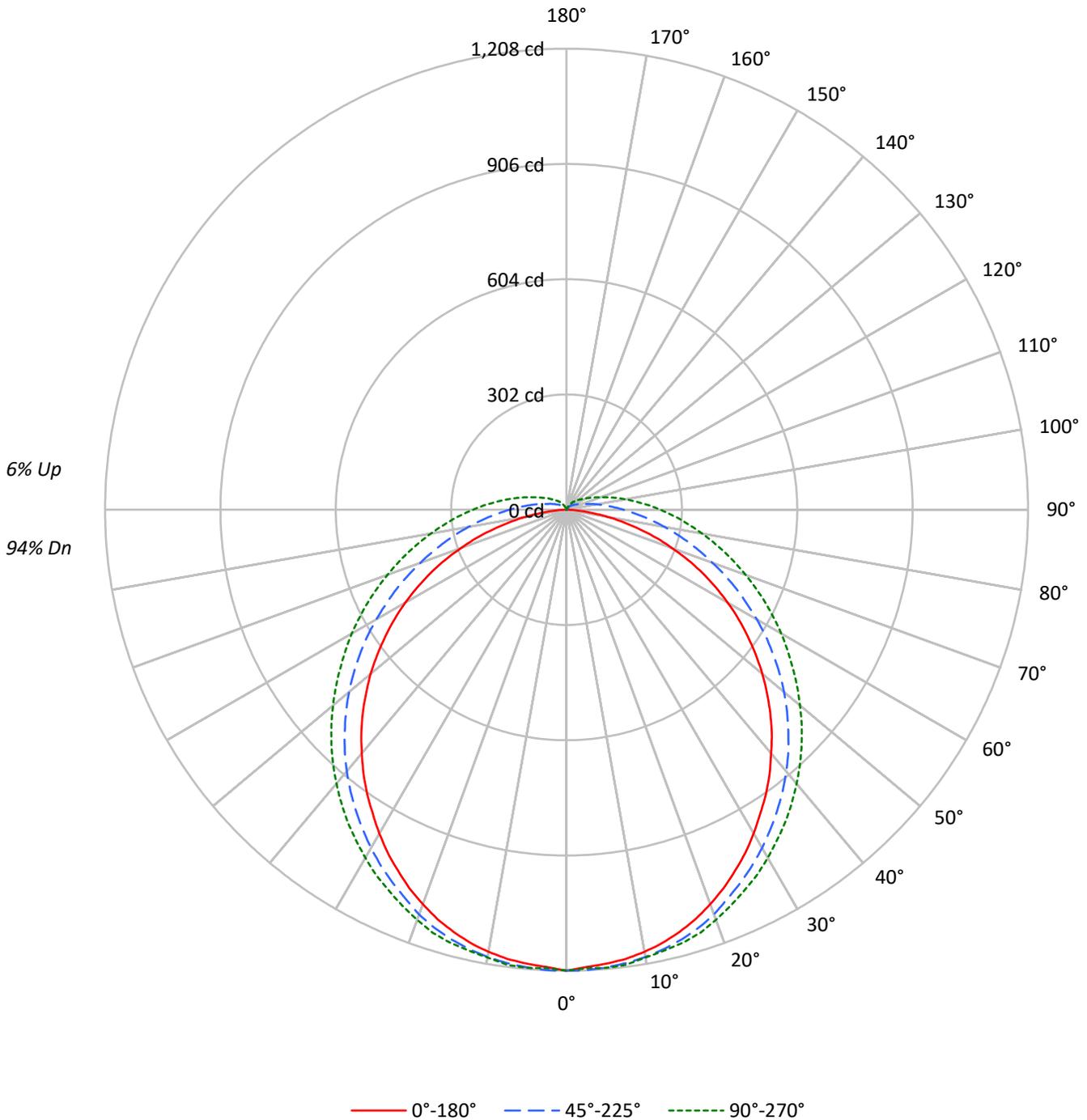
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4043.0 lumens
Efficiency: N/A
Efficacy: 112.3 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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CATALOG NUMBER: 4ASL4-10-1-92765-UNV_3500K

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	78	78	78	75
2	95	86	79	73	92	84	77	71	79	74	69	75	70	66	71	67	64	64	64	64	61
3	87	76	67	60	84	73	65	59	69	63	57	66	60	55	62	58	54	54	54	54	51
4	79	67	57	50	76	65	56	50	62	54	48	58	52	47	56	50	46	46	46	46	43
5	73	59	50	43	70	58	49	43	55	47	42	52	46	41	50	44	40	40	40	40	37
6	67	53	44	38	65	52	43	37	50	42	36	47	41	35	45	39	35	35	35	35	32
7	62	48	39	33	60	47	39	33	45	37	32	43	36	31	41	35	31	31	31	31	29
8	58	44	35	29	56	43	35	29	41	34	29	39	33	28	38	32	27	27	27	27	25
9	54	40	32	26	52	39	32	26	38	31	26	36	30	25	35	29	25	25	25	25	23
10	51	37	29	24	49	36	29	24	35	28	23	34	27	23	32	27	22	22	22	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9800	9800	9800
5°	9704	9603	9554
10°	9648	9408	9303
15°	9551	9200	9108
20°	9407	8964	8866
25°	9233	8681	8605
30°	9042	8423	8361
35°	8851	8159	8117
40°	8638	7893	7865
45°	8434	7602	7609
50°	8196	7299	7339
55°	7900	6956	7070
60°	7572	6598	6833
65°	7153	6222	6597
70°	6501	5826	6365
75°	5659	5474	6189
80°	4505	5170	6079
85°	2645	4968	6120

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8434 cd/sqm



TEST NUMBER: P1357104
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	2.8
10°-20°	328.3	8.1
20°-30°	496.3	12.3
30°-40°	600.0	14.8
40°-50°	630.8	15.6
50°-60°	587.6	14.5
60°-70°	482.8	11.9
70°-80°	342.7	8.5
80°-90°	206.6	5.1
90°-100°	115.7	2.9
100°-110°	64.1	1.6
110°-120°	35.7	0.9
120°-130°	20.6	0.5
130°-140°	11.3	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°	939.0	23.2
0°-40°	1538.9	38.1
0°-60°	2757.3	68.2
0°-90°	3789.4	93.7
90°-120°	215.6	5.3
90°-150°	252.4	6.2
90°-180°	254.0	6.3
0°-180°	4043.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1208	1208	1208	1208	1208	
5°	1194	1205	1204	1202	1205	113
15°	1145	1160	1165	1171	1175	323
25°	1044	1063	1078	1093	1101	481
35°	910	933	962	986	999	569
45°	754	781	821	855	870	581
55°	579	612	660	704	723	518
65°	393	429	490	548	574	388
75°	198	249	331	399	428	212
85°	37	107	199	273	300	46
90°	0	63	149	219	244	1
95°	0	37	109	172	197	0
105°	0	14	57	104	123	0
115°	0	7	36	63	75	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°	1207.6	1207.6	1207.6	1207.6	1207.6
2.5°	1199.4	1210.3	1207.6	1202.1	1202.1
5°	1193.9	1204.9	1203.5	1202.1	1204.9
7.5°	1187.1	1198.0	1198.0	1199.4	1202.1
10°	1176.2	1189.9	1189.9	1189.9	1191.2
12.5°	1162.5	1176.2	1178.9	1180.3	1183.0
15°	1144.8	1159.8	1165.3	1170.7	1174.8
17.5°	1124.3	1139.3	1148.9	1155.7	1162.5
20°	1099.7	1116.1	1128.4	1136.6	1143.4
22.5°	1073.7	1090.1	1102.4	1114.7	1122.9
25°	1043.7	1062.8	1077.8	1092.9	1101.1
27.5°	1013.6	1032.8	1051.9	1069.6	1079.2
30°	979.5	1001.3	1023.2	1043.7	1053.2
32.5°	944.0	967.2	993.1	1015.0	1025.9
35°	909.8	933.0	961.7	986.3	998.6
37.5°	872.9	896.1	928.9	956.3	968.5
40°	833.3	859.3	894.8	923.5	937.1
42.5°	795.1	821.0	859.3	890.7	904.3
45°	754.1	781.4	821.0	855.2	870.2
47.5°	711.7	740.4	782.8	818.3	834.7
50°	669.4	699.4	743.1	781.4	797.8
52.5°	624.3	655.7	702.2	743.1	760.9
55°	579.2	612.0	659.8	703.5	722.7
57.5°	534.1	566.9	618.8	665.3	685.8
60°	487.7	521.8	575.1	625.7	648.9
62.5°	439.9	475.4	531.4	586.0	610.6
65°	393.4	428.9	490.4	547.8	573.8
67.5°	344.3	382.5	448.1	508.2	535.5
70°	293.7	337.4	407.1	471.3	498.6
72.5°	248.6	293.7	368.8	434.4	463.1
75°	198.1	248.6	330.6	398.9	427.6
77.5°	154.4	209.0	295.1	364.7	393.4
80°	110.7	170.8	260.9	332.0	360.6
82.5°	71.0	136.6	229.5	301.9	329.2
85°	36.9	106.6	199.4	273.2	300.5
87.5°	10.9	82.0	172.1	244.5	271.8
90°	0.0	62.8	148.9	218.6	244.5
92.5°	0.0	47.8	128.4	195.3	221.3
95°	0.0	36.9	109.3	172.1	196.7
97.5°	0.0	28.7	94.3	151.6	176.2
100°	0.0	23.2	80.6	133.9	157.1
102.5°	0.0	19.1	69.7	118.8	139.3
105°	0.0	13.7	57.4	103.8	122.9
107.5°	0.0	9.6	50.5	91.5	107.9
110°	0.0	8.2	45.1	79.2	95.6



TEST NUMBER: P1357104
 CATALOG NUMBER: 4ASL4-10-1-92765-UNV_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	6.8	39.6	71.0	84.7
115°	0.0	6.8	35.5	62.8	75.1
117.5°	0.0	5.5	30.1	56.0	66.9
120°	0.0	5.5	27.3	50.5	60.1
122.5°	0.0	4.1	24.6	45.1	54.6
125°	0.0	4.1	21.9	41.0	47.8
127.5°	0.0	2.7	19.1	36.9	43.7
130°	0.0	2.7	17.8	32.8	39.6
132.5°	0.0	1.4	16.4	30.1	35.5
135°	0.0	1.4	13.7	26.0	32.8
137.5°	0.0	0.0	12.3	23.2	28.7
140°	0.0	0.0	9.6	20.5	26.0
142.5°	1.4	0.0	8.2	17.8	21.9
145°	1.4	0.0	5.5	15.0	19.1
147.5°	1.4	1.4	4.1	12.3	15.0
150°	1.4	1.4	2.7	8.2	12.3
152.5°	1.4	1.4	1.4	5.5	8.2
155°	1.4	1.4	0.0	4.1	5.5
157.5°	1.4	1.4	0.0	1.4	2.7
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	17.33	18.89	17.79	19.33	19.80	19.32	20.87	19.78	21.31	21.78
	3H	18.83	20.24	19.30	20.69	21.20	21.73	23.14	22.20	23.59	24.10
	4H	19.30	20.64	19.79	21.11	21.64	22.89	24.23	23.39	24.70	25.23
	6H	19.58	20.83	20.08	21.31	21.85	24.10	25.35	24.61	25.83	26.37
	8H	19.63	20.83	20.15	21.34	21.88	24.72	25.92	25.24	26.43	26.97
	12H	19.64	20.79	20.17	21.29	21.87	25.40	26.55	25.93	27.05	27.63
4H	2H	18.20	19.54	18.69	20.01	20.53	19.75	21.09	20.24	21.56	22.08
	3H	19.93	21.07	20.43	21.58	22.13	22.38	23.53	22.89	24.04	24.59
	4H	20.53	21.57	21.05	22.10	22.67	23.72	24.76	24.24	25.29	25.87
	6H	20.92	21.84	21.47	22.40	22.99	25.12	26.04	25.66	26.59	27.18
	8H	21.02	21.88	21.57	22.43	23.04	25.84	26.71	26.39	27.26	27.86
	12H	21.06	21.85	21.63	22.43	23.04	26.65	27.43	27.22	28.01	28.62
8H	4H	21.18	22.04	21.73	22.60	23.20	23.93	24.80	24.48	25.35	25.95
	6H	21.75	22.48	22.33	23.07	23.68	25.49	26.23	26.08	26.82	27.43
	8H	21.92	22.59	22.52	23.19	23.81	26.36	27.02	26.95	27.62	28.25
	12H	22.03	22.62	22.63	23.22	23.91	27.35	27.94	27.94	28.53	29.22
12H	4H	21.36	22.14	21.93	22.72	23.33	23.94	24.73	24.51	25.31	25.92
	6H	22.02	22.68	22.62	23.29	23.91	25.53	26.19	26.12	26.80	27.42
	8H	22.29	22.88	22.89	23.47	24.16	26.46	27.05	27.06	27.65	28.34