

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: P1357121

Luminaire Tested: 4ASL4-10HE-2-92765-UNV_5000K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357121
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: 4ASL4-10HE-2-92765-UNV_5000K
Description: 4FT 1000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 5000K LEDS 2 ROW
Light Source: -
Ballast/Driver: -

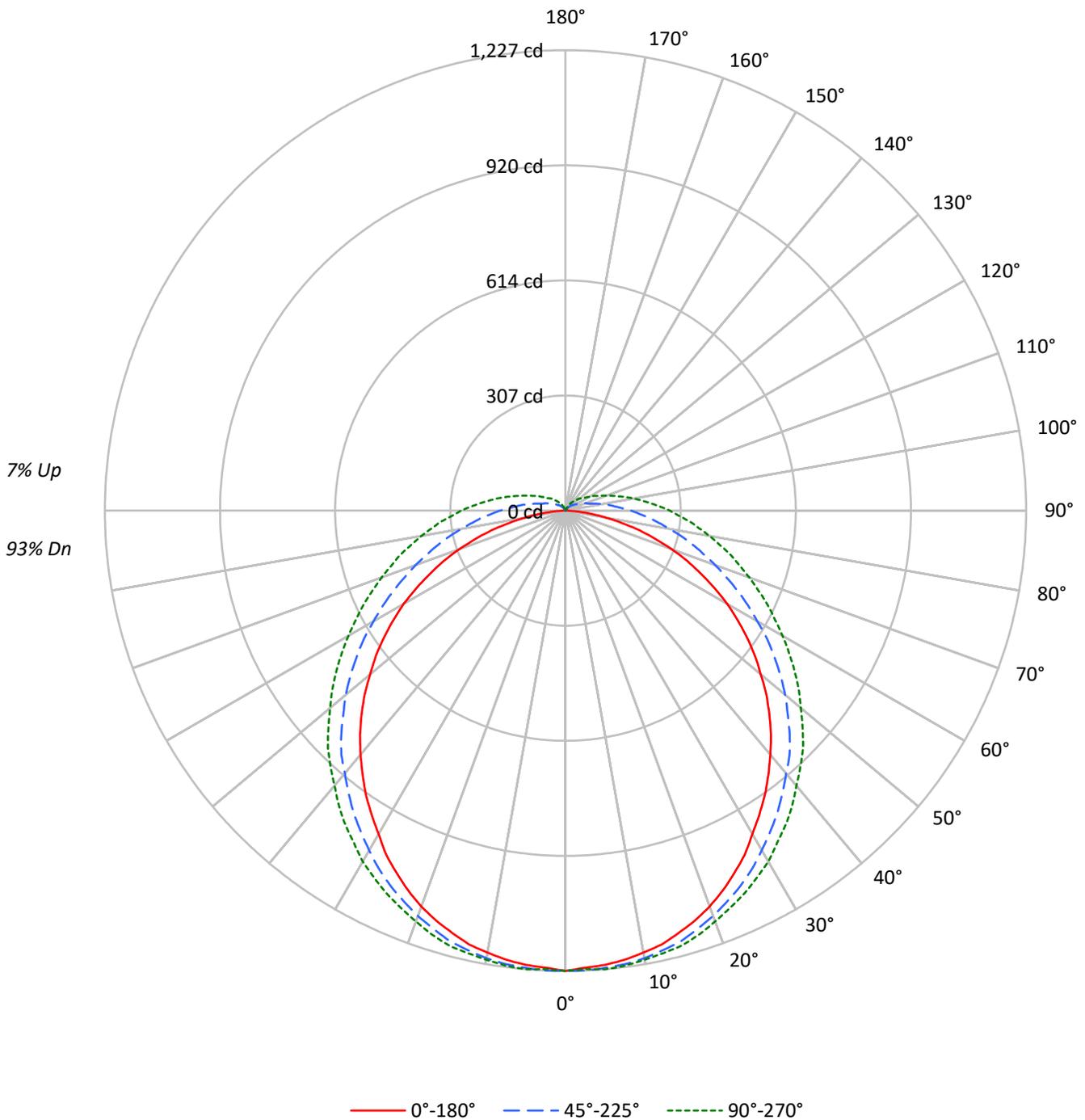
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4212.0 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 35.1
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°	9957	9957	9957
5°	9878	9759	9729
10°	9810	9579	9492
15°	9721	9382	9302
20°	9604	9133	9035
25°	9420	8888	8805
30°	9189	8608	8576
35°	9009	8347	8310
40°	8799	8066	8030
45°	8587	7823	7827
50°	8313	7503	7524
55°	8051	7159	7284
60°	7728	6772	7029
65°	7225	6412	6832
70°	6661	6074	6650
75°	5841	5813	6590
80°	4554	5581	6569
85°	2766	5576	6757

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8587 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.4	2.8
10°-20°	334.5	7.9
20°-30°	506.8	12.0
30°-40°	612.9	14.6
40°-50°	646.2	15.3
50°-60°	603.1	14.3
60°-70°	497.9	11.8
70°-80°	361.2	8.6
80°-90°	228.2	5.4
90°-100°	136.2	3.2
100°-110°	78.1	1.9
110°-120°	44.3	1.1
120°-130°	25.3	0.6
130°-140°	13.7	0.3
140°-150°	6.0	0.1
150°-160°	1.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	957.6	22.7
0°-40°	1570.6	37.3
0°-60°	2819.8	66.9
0°-90°	3907.2	92.8
90°-120°	258.7	6.1
90°-150°	303.7	7.2
90°-180°	305.0	7.2
0°-180°	4212.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1227	1227	1227	1227	1227	
5°	1215	1227	1223	1223	1227	115
15°	1165	1181	1188	1192	1200	329
25°	1065	1080	1103	1119	1127	491
35°	926	949	984	1011	1022	579
45°	768	799	845	880	895	592
55°	590	625	679	725	745	528
65°	397	440	505	567	594	395
75°	204	258	351	424	455	215
85°	39	120	224	301	332	47
90°	0	73	174	247	278	2
95°	0	46	131	201	228	0
105°	0	15	73	127	147	0
115°	0	8	42	77	93	0
125°	0	4	27	50	58	0
135°	0	0	15	31	39	0
145°	0	0	8	19	23	0
155°	0	0	0	4	8	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°	1226.9	1226.9	1226.9	1226.9	1226.9
2.5°	1219.2	1230.8	1226.9	1223.1	1223.1
5°	1215.3	1226.9	1223.1	1223.1	1226.9
7.5°	1207.6	1219.2	1219.2	1219.2	1223.1
10°	1196.0	1211.5	1211.5	1211.5	1215.3
12.5°	1184.5	1196.0	1199.9	1203.8	1207.6
15°	1165.2	1180.6	1188.3	1192.2	1199.9
17.5°	1145.9	1157.5	1169.0	1180.6	1184.5
20°	1122.7	1138.2	1149.7	1161.3	1165.2
22.5°	1095.7	1111.2	1126.6	1138.2	1145.9
25°	1064.9	1080.3	1103.4	1118.9	1126.6
27.5°	1034.0	1049.4	1076.4	1095.7	1103.4
30°	995.4	1018.6	1045.6	1068.7	1080.3
32.5°	960.7	983.8	1014.7	1041.7	1049.4
35°	926.0	949.1	983.8	1010.9	1022.4
37.5°	887.4	914.4	949.1	980.0	991.6
40°	848.8	875.8	914.4	949.1	956.8
42.5°	810.2	837.2	883.5	914.4	926.0
45°	767.8	798.7	844.9	879.7	895.1
47.5°	725.3	756.2	802.5	841.1	856.5
50°	679.0	713.8	763.9	802.5	817.9
52.5°	636.6	671.3	721.5	763.9	783.2
55°	590.3	625.0	679.0	725.3	744.6
57.5°	544.0	578.7	636.6	686.8	706.1
60°	497.7	532.4	590.3	648.2	667.5
62.5°	447.6	486.1	547.9	605.7	628.9
65°	397.4	439.8	505.4	567.2	594.2
67.5°	351.1	393.5	463.0	532.4	555.6
70°	300.9	347.2	424.4	493.9	520.9
72.5°	250.8	300.9	385.8	459.1	486.1
75°	204.5	258.5	351.1	424.4	455.3
77.5°	154.3	219.9	316.4	393.5	420.5
80°	111.9	181.3	281.6	362.7	389.7
82.5°	73.3	146.6	250.8	331.8	358.8
85°	38.6	119.6	223.8	300.9	331.8
87.5°	11.6	92.6	196.8	273.9	300.9
90°	0.0	73.3	173.6	246.9	277.8
92.5°	0.0	57.9	150.5	223.8	250.8
95°	0.0	46.3	131.2	200.6	227.6
97.5°	0.0	38.6	115.7	181.3	204.5
100°	0.0	30.9	100.3	162.0	185.2
102.5°	0.0	23.1	84.9	142.8	165.9
105°	0.0	15.4	73.3	127.3	146.6
107.5°	0.0	11.6	61.7	111.9	131.2
110°	0.0	11.6	57.9	96.5	115.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	7.7	50.2	88.7	104.2
115°	0.0	7.7	42.4	77.2	92.6
117.5°	0.0	7.7	38.6	69.4	84.9
120°	0.0	7.7	34.7	61.7	73.3
122.5°	0.0	3.9	30.9	54.0	65.6
125°	0.0	3.9	27.0	50.2	57.9
127.5°	0.0	3.9	23.1	46.3	54.0
130°	0.0	3.9	23.1	42.4	50.2
132.5°	0.0	0.0	19.3	38.6	46.3
135°	0.0	0.0	15.4	30.9	38.6
137.5°	0.0	0.0	15.4	27.0	34.7
140°	0.0	0.0	11.6	27.0	30.9
142.5°	0.0	0.0	7.7	23.1	27.0
145°	0.0	0.0	7.7	19.3	23.1
147.5°	0.0	0.0	3.9	15.4	19.3
150°	0.0	0.0	3.9	11.6	15.4
152.5°	0.0	0.0	0.0	7.7	11.6
155°	0.0	0.0	0.0	3.9	7.7
157.5°	0.0	0.0	0.0	0.0	3.9
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	17.30	18.83	17.77	19.29	19.78	19.36	20.89	19.83	21.35	21.84
	3H	18.80	20.20	19.28	20.67	21.20	21.81	23.21	22.29	23.68	24.21
	4H	19.28	20.61	19.79	21.09	21.64	23.02	24.35	23.52	24.83	25.38
	6H	19.55	20.79	20.07	21.29	21.85	24.29	25.53	24.81	26.03	26.59
	8H	19.61	20.79	20.14	21.32	21.88	24.95	26.13	25.48	26.66	27.22
	12H	19.62	20.76	20.16	21.28	21.87	25.68	26.81	26.21	27.33	27.93
4H	2H	18.18	19.50	18.68	19.99	20.54	19.79	21.12	20.29	21.60	22.15
	3H	19.92	21.05	20.44	21.58	22.15	22.47	23.60	22.99	24.13	24.70
	4H	20.53	21.56	21.07	22.10	22.70	23.85	24.89	24.39	25.43	26.03
	6H	20.93	21.84	21.49	22.41	23.02	25.32	26.24	25.88	26.80	27.42
	8H	21.03	21.89	21.59	22.45	23.08	26.09	26.95	26.65	27.52	28.14
	12H	21.07	21.86	21.66	22.45	23.08	26.94	27.73	27.53	28.32	28.95
8H	4H	21.22	22.08	21.79	22.65	23.28	24.07	24.93	24.64	25.50	26.13
	6H	21.81	22.54	22.41	23.15	23.78	25.72	26.45	26.31	27.06	27.69
	8H	22.00	22.66	22.61	23.28	23.92	26.63	27.29	27.24	27.91	28.55
	12H	22.12	22.71	22.73	23.32	24.03	27.67	28.26	28.28	28.87	29.58
12H	4H	21.42	22.21	22.01	22.80	23.43	24.08	24.86	24.67	25.46	26.09
	6H	22.11	22.77	22.72	23.39	24.04	25.76	26.42	26.36	27.04	27.68
	8H	22.40	22.99	23.01	23.60	24.31	26.74	27.33	27.35	27.93	28.64