

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P489408

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-1LO-27-120-EDD-90**

Issue Date: 3/11/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P489408  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/11/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: CLM-24-4-INS-A12125-LD4-1LO-27-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

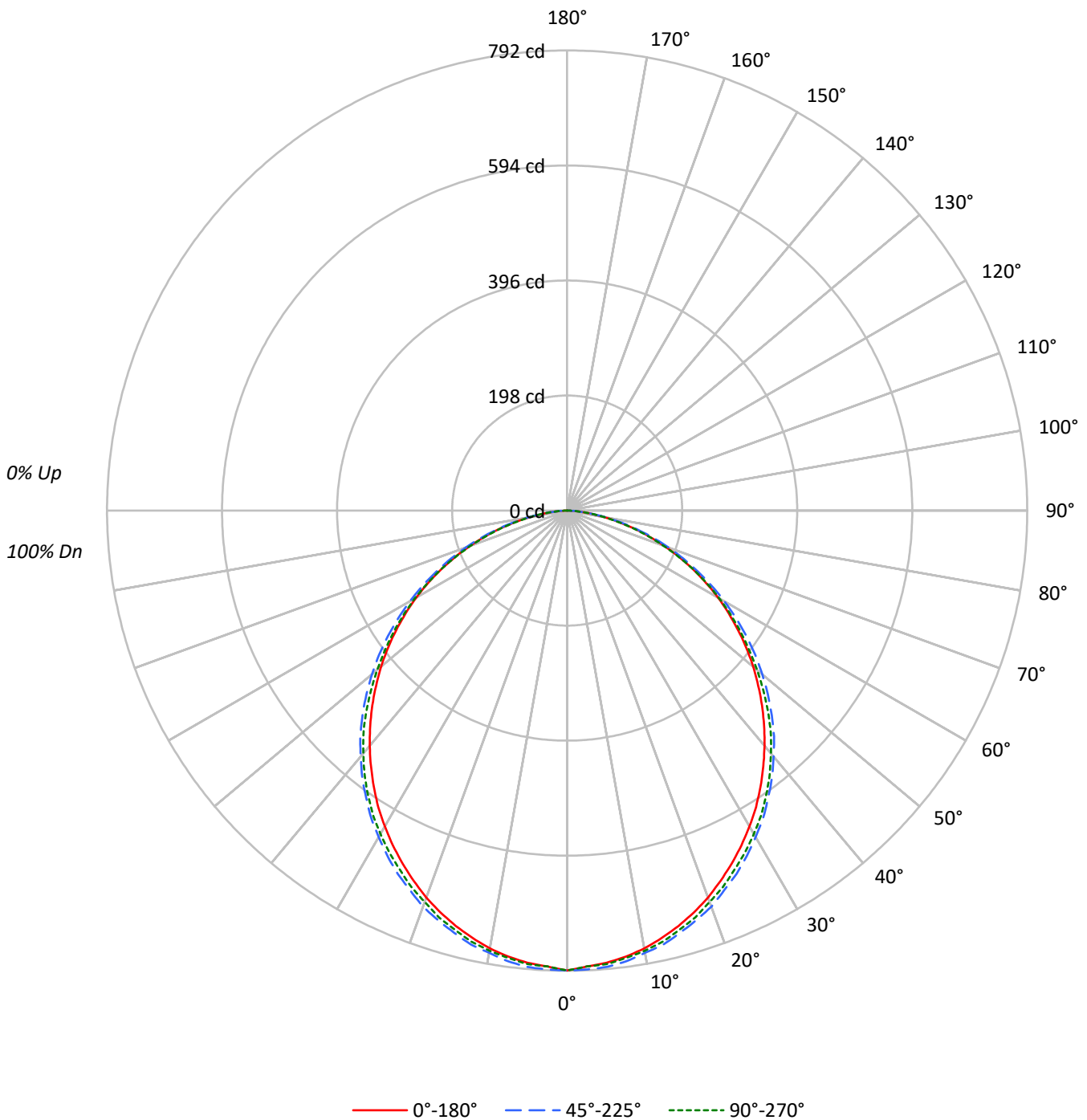
Lumens per Lamp: N/A  
Luminaire Lumens: 2080.9 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.4  
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: 25 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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1065	1065	1065
5°	1055	1065	1058
10°	1045	1056	1051
15°	1031	1048	1040
20°	1015	1039	1026
25°	995	1024	1012
30°	975	1008	999
35°	953	991	981
40°	928	971	959
45°	902	948	930
50°	875	917	893
55°	843	883	856
60°	807	841	815
65°	761	790	761
70°	700	728	692
75°	617	644	607
80°	501	523	495
85°	349	372	363



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.5	3.6
10°-20°	211.2	10.2
20°-30°	315.1	15.1
30°-40°	373.3	17.9
40°-50°	377.8	18.2
50°-60°	329.9	15.9
60°-70°	241.1	11.6
70°-80°	128.3	6.2
80°-90°	29.7	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	600.8	28.9
0°-40°	974.2	46.8
0°-60°	1681.9	80.8
0°-90°	2080.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2080.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	792	792	792	792	792	
5°	781	783	788	790	784	74
15°	740	745	752	757	747	209
25°	670	678	690	692	682	309
35°	580	589	603	607	598	363
45°	474	482	498	498	489	366
55°	360	367	376	371	365	321
65°	239	244	248	243	239	237
75°	119	121	124	119	117	126
85°	23	23	24	24	24	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	791.5	791.5	791.5	791.5	791.5
2.5°	785.3	787.9	790.5	791.7	785.2
5°	781.2	782.7	788.5	790.3	783.7
7.5°	774.4	776.7	782.3	783.2	776.7
10°	765.2	769.2	772.9	777.1	769.2
12.5°	753.4	758.8	765.2	765.9	760.0
15°	740.1	745.1	752.1	756.6	746.8
17.5°	725.3	730.1	739.1	740.0	734.0
20°	708.7	714.6	725.5	727.4	716.8
22.5°	689.9	697.9	707.0	708.8	701.0
25°	670.2	678.4	689.7	692.2	681.7
27.5°	649.6	657.5	670.1	671.9	663.1
30°	627.5	634.9	648.8	651.8	642.8
32.5°	605.0	612.5	627.8	630.4	621.6
35°	580.1	589.2	603.1	607.4	597.5
37.5°	554.7	563.6	579.4	583.2	572.6
40°	528.4	537.2	552.8	555.9	545.8
42.5°	501.6	510.3	527.0	527.4	519.0
45°	474.1	482.5	498.0	498.4	488.6
47.5°	446.2	454.7	468.6	467.0	457.8
50°	418.0	426.1	438.2	435.1	426.8
52.5°	388.8	396.7	408.1	403.0	395.2
55°	359.5	366.7	376.3	370.8	364.7
57.5°	329.9	337.2	344.5	339.0	333.7
60°	300.0	306.4	312.5	306.9	302.8
62.5°	269.7	275.2	280.4	275.0	271.2
65°	239.0	243.8	248.1	243.2	239.1
67.5°	208.5	212.6	216.6	211.4	207.2
70°	178.0	181.5	185.1	179.9	176.0
72.5°	147.9	151.0	154.2	149.1	145.7
75°	118.6	121.3	123.9	119.4	116.8
77.5°	90.6	92.9	94.8	91.9	89.3
80°	64.7	66.4	67.5	66.3	63.9
82.5°	41.6	42.8	43.4	43.3	41.7
85°	22.6	23.0	24.1	24.3	23.5
87.5°	8.7	9.3	9.6	10.3	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)