

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: P489273

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-2LO-50-120-EDD**

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: P489273  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/11/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: CLM-24-2-INS-P12125-LD4-2LO-50-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

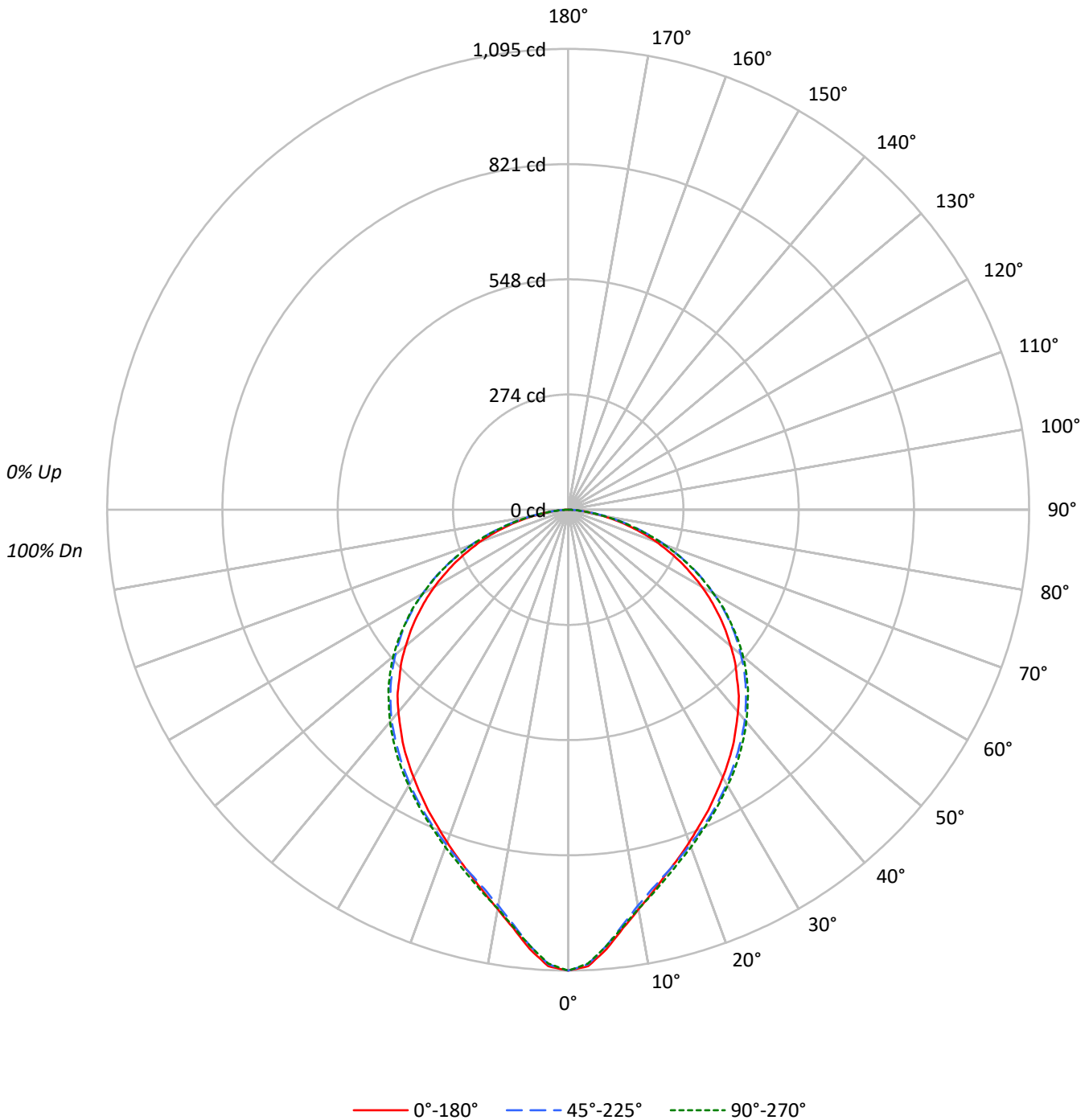
Lumens per Lamp: N/A  
Luminaire Lumens: 2543.9 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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

	0°	45°	90°
0°	2947	2947	2947
5°	2830	2810	2810
10°	2634	2610	2630
15°	2499	2495	2519
20°	2407	2425	2444
25°	2339	2377	2390
30°	2282	2339	2353
35°	2243	2309	2332
40°	2203	2293	2312
45°	2158	2270	2297
50°	2110	2242	2272
55°	2052	2210	2219
60°	1978	2149	2145
65°	1875	2066	2053
70°	1751	1927	1903
75°	1545	1707	1691
80°	1255	1392	1323
85°	871	886	852



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.8	3.8
10°-20°	253.5	10.0
20°-30°	368.6	14.5
30°-40°	438.6	17.2
40°-50°	455.5	17.9
50°-60°	412.6	16.2
60°-70°	311.4	12.2
70°-80°	169.7	6.7
80°-90°	37.3	1.5
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°	718.9	28.3
0°-40°	1157.5	45.5
0°-60°	2025.6	79.6
0°-90°	2543.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2543.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1095	1095	1095	1095	1095	
5°	1048	1045	1040	1040	1040	97
15°	897	895	895	901	904	253
25°	788	794	800	807	805	363
35°	683	691	703	713	710	427
45°	567	577	597	603	604	438
55°	437	448	471	474	473	390
65°	294	303	324	324	322	291
75°	149	155	164	165	163	158
85°	28	28	29	28	28	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1095.2	1095.2	1095.2	1095.2	1095.2
2.5°	1085.6	1084.5	1081.0	1079.6	1079.3
5°	1047.6	1045.1	1040.2	1039.6	1040.2
7.5°	1002.1	999.4	994.5	996.4	998.9
10°	963.8	957.0	955.1	957.8	962.5
12.5°	929.6	924.1	922.5	929.6	932.9
15°	897.0	894.9	895.4	901.4	904.2
17.5°	868.9	867.5	871.1	875.7	877.1
20°	840.7	843.4	846.7	851.6	853.3
22.5°	813.0	818.2	823.7	830.3	828.1
25°	787.6	794.2	800.5	807.0	805.1
27.5°	760.5	768.2	776.9	784.0	781.3
30°	734.5	744.1	752.6	761.3	757.2
32.5°	708.8	717.8	727.9	738.6	734.0
35°	682.8	691.0	702.8	713.4	709.9
37.5°	654.1	664.2	677.6	686.9	684.4
40°	627.2	636.5	652.7	658.7	658.1
42.5°	600.1	607.8	624.8	631.6	630.5
45°	567.0	577.1	596.6	603.2	603.7
47.5°	537.7	546.2	567.0	572.2	573.3
50°	504.1	514.8	535.6	541.8	542.7
52.5°	471.0	482.4	503.8	508.2	509.0
55°	437.3	447.7	471.0	474.3	472.9
57.5°	402.0	414.6	435.9	437.6	439.0
60°	367.5	378.5	399.3	401.5	398.5
62.5°	330.0	341.3	362.6	363.1	360.7
65°	294.4	302.9	324.5	324.0	322.4
67.5°	257.2	267.6	283.5	284.0	282.7
70°	222.5	229.6	244.9	245.2	241.9
72.5°	185.0	192.7	205.0	203.3	202.5
75°	148.6	154.6	164.2	165.3	162.6
77.5°	115.2	119.6	126.7	125.9	122.9
80°	81.0	84.6	89.8	88.7	85.4
82.5°	51.7	53.9	57.2	55.8	54.5
85°	28.2	28.4	28.7	28.4	27.6
87.5°	10.4	10.7	10.7	10.4	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)