

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: P489767

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-1LO-20-120-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: P489767  
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-24-4-INS-P12125-LD4-1LO-20-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

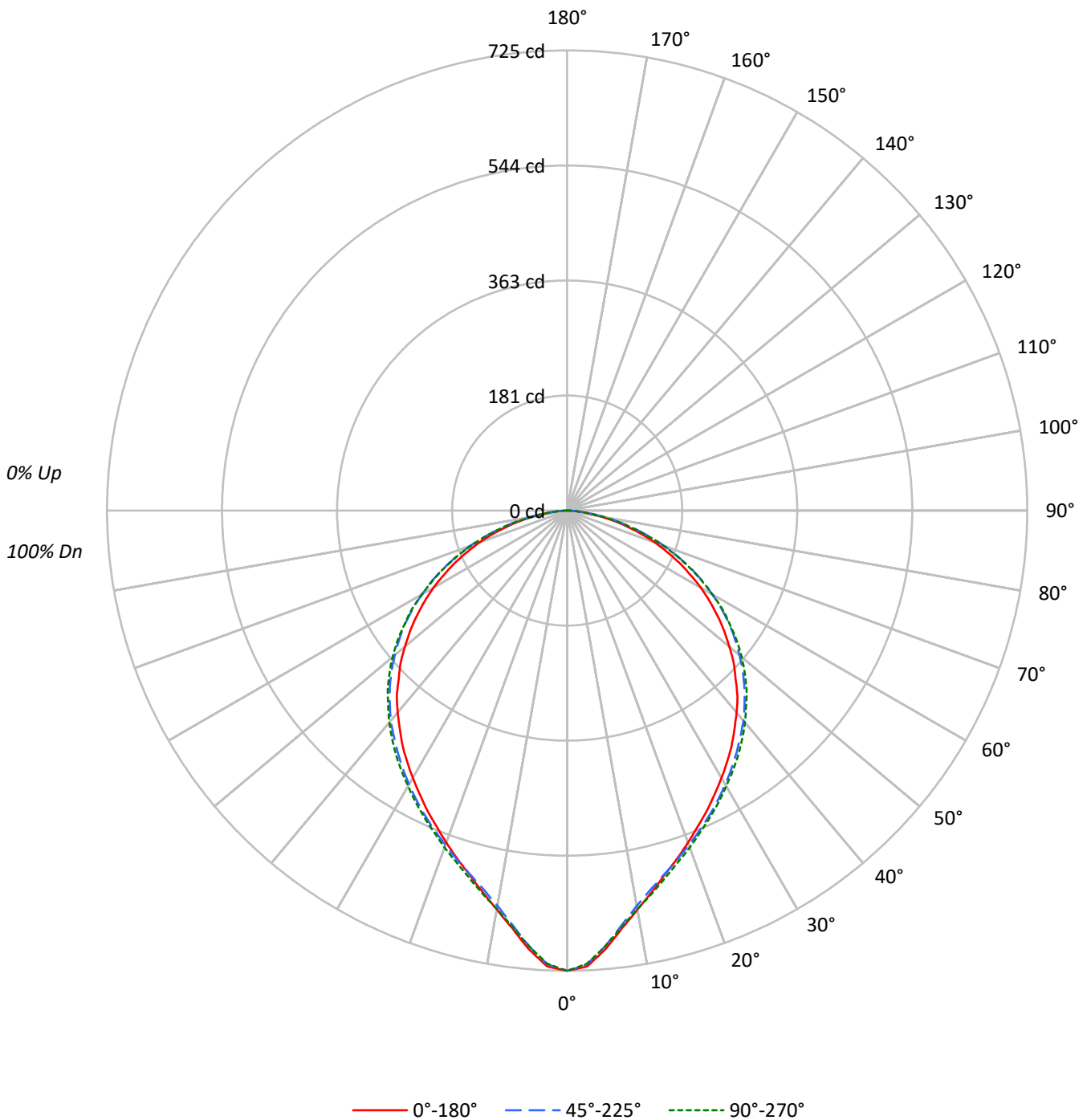
Lumens per Lamp: N/A  
Luminaire Lumens: 1684.2 lumens  
Efficiency: N/A  
Efficacy: 72.0 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.23  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	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°	976	976	976
5°	937	930	930
10°	872	864	871
15°	827	826	834
20°	797	803	809
25°	774	787	791
30°	756	774	779
35°	742	764	772
40°	729	759	765
45°	714	752	761
50°	699	742	752
55°	679	731	734
60°	655	711	710
65°	621	684	679
70°	579	638	630
75°	512	565	559
80°	415	460	438
85°	289	293	283



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.1	3.8
10°-20°	167.8	10.0
20°-30°	244.0	14.5
30°-40°	290.4	17.2
40°-50°	301.5	17.9
50°-60°	273.2	16.2
60°-70°	206.1	12.2
70°-80°	112.3	6.7
80°-90°	24.7	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°	475.9	28.3
0°-40°	766.3	45.5
0°-60°	1341.0	79.6
0°-90°	1684.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1684.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	725	725	725	725	725	
5°	694	692	689	688	689	64
15°	594	592	593	597	599	168
25°	521	526	530	534	533	240
35°	452	458	465	472	470	283
45°	375	382	395	399	400	290
55°	290	296	312	314	313	259
65°	195	201	215	214	213	193
75°	98	102	109	109	108	105
85°	19	19	19	19	18	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	725.1	725.1	725.1	725.1	725.1
2.5°	718.7	718.0	715.6	714.7	714.6
5°	693.5	691.9	688.7	688.3	688.7
7.5°	663.5	661.7	658.4	659.7	661.3
10°	638.1	633.6	632.3	634.1	637.2
12.5°	615.5	611.8	610.7	615.5	617.6
15°	593.9	592.4	592.8	596.8	598.6
17.5°	575.2	574.3	576.7	579.8	580.7
20°	556.6	558.4	560.6	563.8	564.9
22.5°	538.3	541.7	545.4	549.7	548.2
25°	521.4	525.8	529.9	534.3	533.0
27.5°	503.5	508.6	514.4	519.1	517.3
30°	486.3	492.6	498.2	504.0	501.3
32.5°	469.3	475.2	481.9	489.0	485.9
35°	452.0	457.5	465.3	472.3	470.0
37.5°	433.0	439.7	448.6	454.7	453.1
40°	415.3	421.4	432.1	436.1	435.7
42.5°	397.3	402.4	413.6	418.2	417.4
45°	375.4	382.1	395.0	399.3	399.7
47.5°	356.0	361.6	375.4	378.8	379.6
50°	333.7	340.8	354.6	358.7	359.3
52.5°	311.8	319.4	333.5	336.4	337.0
55°	289.5	296.4	311.8	314.0	313.1
57.5°	266.2	274.5	288.6	289.7	290.6
60°	243.3	250.6	264.3	265.8	263.8
62.5°	218.5	225.9	240.1	240.4	238.8
65°	194.9	200.6	214.9	214.5	213.4
67.5°	170.3	177.2	187.7	188.1	187.2
70°	147.3	152.0	162.2	162.3	160.2
72.5°	122.5	127.5	135.7	134.6	134.1
75°	98.4	102.4	108.7	109.4	107.6
77.5°	76.3	79.2	83.9	83.3	81.3
80°	53.6	56.0	59.4	58.7	56.5
82.5°	34.2	35.7	37.9	37.0	36.1
85°	18.7	18.8	19.0	18.8	18.3
87.5°	6.9	7.1	7.1	6.9	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)