

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: P488376

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-2STD-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: P488376  
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-12-2-INS-A12125-LD4-2STD-27-120-EDD-90  
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

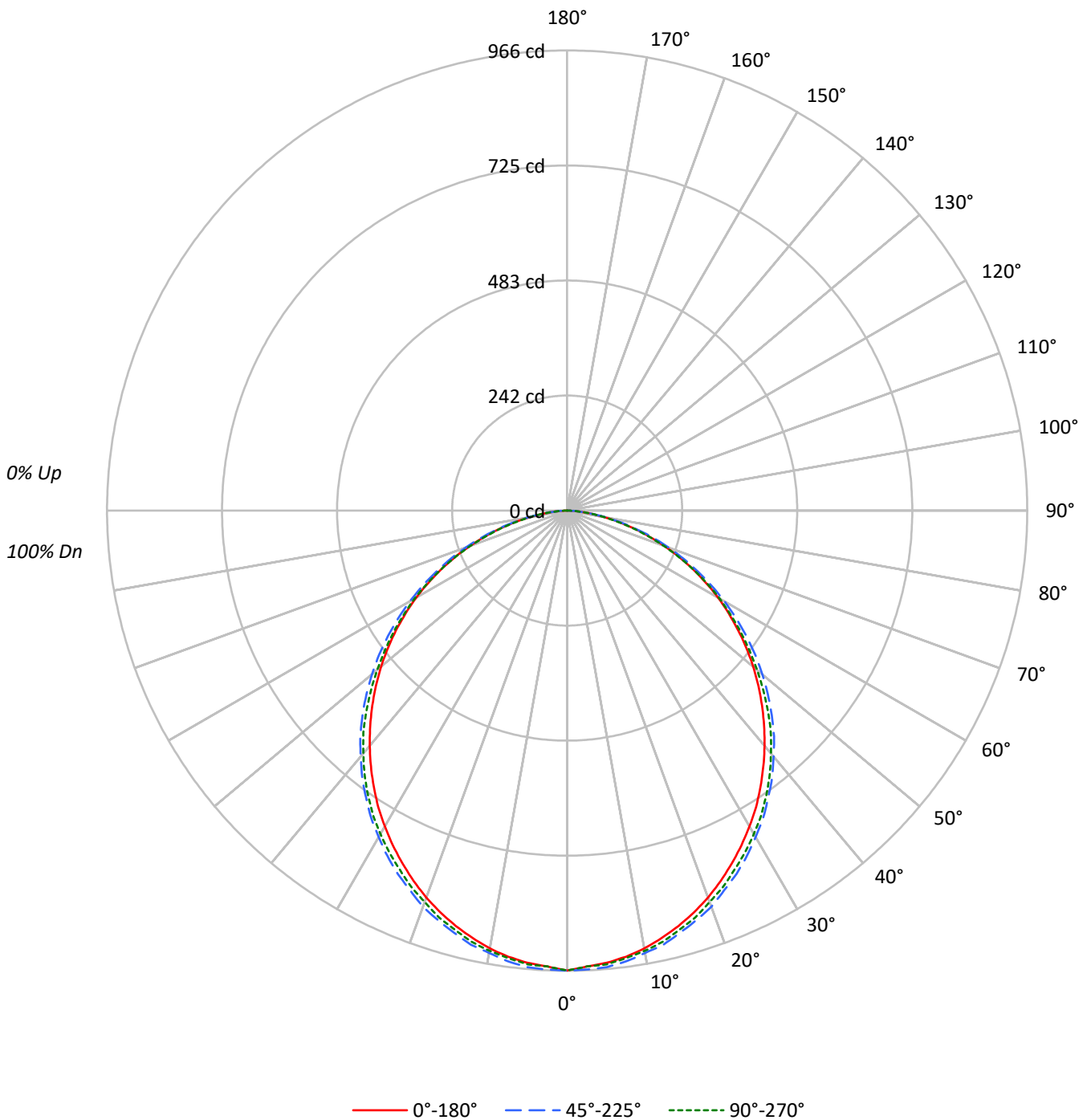
Lumens per Lamp: N/A  
Luminaire Lumens: 2538.4 lumens  
Efficiency: N/A  
Efficacy: 76.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	5196	5196	5196
5°	5148	5197	5165
10°	5101	5153	5128
15°	5030	5112	5076
20°	4951	5069	5008
25°	4855	4996	4938
30°	4757	4918	4873
35°	4650	4834	4789
40°	4529	4737	4677
45°	4402	4624	4536
50°	4269	4476	4359
55°	4115	4307	4175
60°	3940	4103	3976
65°	3712	3855	3715
70°	3416	3553	3378
75°	3009	3144	2961
80°	2445	2551	2417
85°	1704	1815	1772



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.9	3.6
10°-20°	257.7	10.2
20°-30°	384.3	15.1
30°-40°	455.4	17.9
40°-50°	460.8	18.2
50°-60°	402.5	15.9
60°-70°	294.1	11.6
70°-80°	156.5	6.2
80°-90°	36.2	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°	732.9	28.9
0°-40°	1188.4	46.8
0°-60°	2051.6	80.8
0°-90°	2538.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2538.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	966	966	966	966	966	
5°	953	955	962	964	956	90
15°	903	909	917	923	911	255
25°	818	828	841	844	832	377
35°	708	719	736	741	729	443
45°	578	589	608	608	596	446
55°	438	447	459	452	445	392
65°	292	298	303	297	292	288
75°	145	148	151	146	142	154
85°	28	28	29	30	29	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	965.5	965.5	965.5	965.5	965.5
2.5°	958.0	961.1	964.3	965.7	957.9
5°	952.9	954.8	961.9	964.1	956.0
7.5°	944.7	947.4	954.4	955.4	947.5
10°	933.4	938.3	942.9	947.9	938.4
12.5°	919.0	925.6	933.4	934.3	927.1
15°	902.8	908.9	917.4	923.0	911.0
17.5°	884.7	890.6	901.6	902.6	895.4
20°	864.5	871.8	885.0	887.4	874.4
22.5°	841.6	851.3	862.4	864.6	855.1
25°	817.5	827.6	841.3	844.4	831.6
27.5°	792.4	802.0	817.4	819.7	808.9
30°	765.4	774.5	791.4	795.1	784.1
32.5°	738.1	747.1	765.8	769.0	758.3
35°	707.7	718.8	735.8	740.9	728.9
37.5°	676.7	687.5	706.8	711.4	698.5
40°	644.6	655.3	674.3	678.1	665.7
42.5°	611.8	622.5	642.8	643.4	633.1
45°	578.3	588.6	607.5	608.0	596.0
47.5°	544.3	554.7	571.6	569.7	558.4
50°	509.9	519.8	534.6	530.7	520.6
52.5°	474.3	483.9	497.8	491.6	482.1
55°	438.5	447.3	459.0	452.4	444.9
57.5°	402.4	411.3	420.3	413.5	407.1
60°	366.0	373.8	381.2	374.3	369.4
62.5°	328.9	335.7	342.0	335.5	330.9
65°	291.5	297.5	302.7	296.7	291.7
67.5°	254.3	259.3	264.2	257.9	252.8
70°	217.1	221.4	225.8	219.4	214.7
72.5°	180.4	184.2	188.1	181.9	177.8
75°	144.7	148.0	151.2	145.7	142.4
77.5°	110.6	113.4	115.6	112.1	108.9
80°	78.9	81.0	82.3	80.9	78.0
82.5°	50.7	52.2	52.9	52.8	50.9
85°	27.6	28.1	29.4	29.7	28.7
87.5°	10.7	11.4	11.7	12.6	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)