

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: P489889

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-4STD-27-120-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: P489889  
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-LD4-4STD-27-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

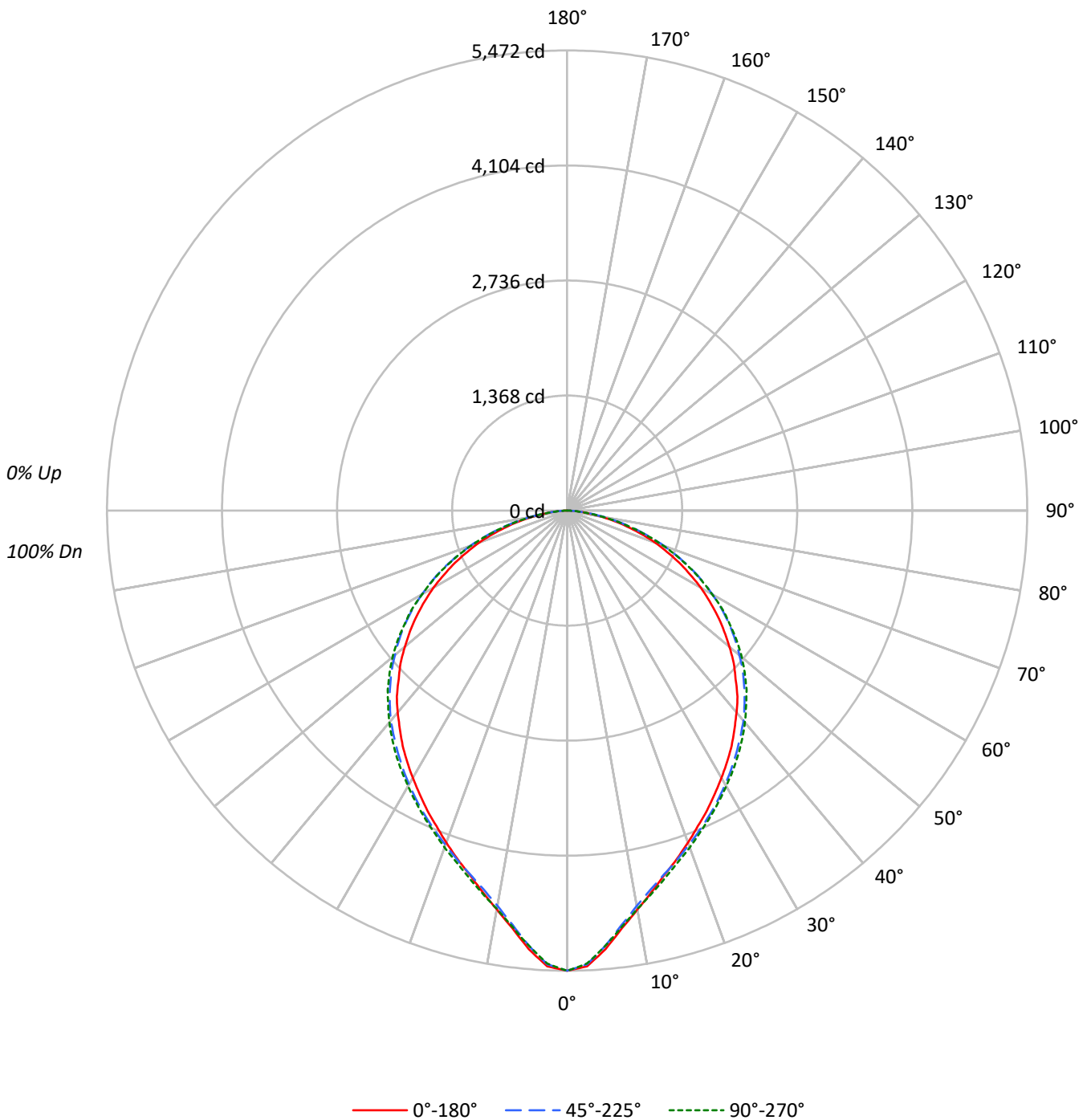
Lumens per Lamp: N/A  
Luminaire Lumens: 12709.8 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 133.2  
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°	7362	7362	7362
5°	7069	7019	7019
10°	6579	6519	6570
15°	6243	6232	6293
20°	6014	6057	6104
25°	5842	5937	5972
30°	5701	5842	5878
35°	5603	5767	5826
40°	5504	5727	5775
45°	5391	5672	5739
50°	5272	5601	5675
55°	5125	5520	5542
60°	4941	5368	5357
65°	4684	5162	5128
70°	4373	4814	4755
75°	3859	4265	4222
80°	3136	3475	3305
85°	2175	2215	2132



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	483.5	3.8
10°-20°	1266.5	10.0
20°-30°	1841.7	14.5
30°-40°	2191.5	17.2
40°-50°	2275.6	17.9
50°-60°	2061.6	16.2
60°-70°	1555.6	12.2
70°-80°	847.6	6.7
80°-90°	186.2	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°	3591.6	28.3
0°-40°	5783.2	45.5
0°-60°	10120.3	79.6
0°-90°	12709.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12709.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5472	5472	5472	5472	5472	
5°	5234	5222	5197	5194	5197	486
15°	4482	4471	4474	4504	4517	1265
25°	3935	3968	3999	4032	4022	1813
35°	3411	3452	3511	3564	3547	2133
45°	2833	2884	2981	3014	3016	2190
55°	2185	2237	2353	2370	2363	1951
65°	1471	1514	1622	1619	1611	1454
75°	742	772	820	826	812	791
85°	141	142	144	142	138	178
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5471.8	5471.8	5471.8	5471.8	5471.8
2.5°	5423.9	5418.4	5400.6	5393.8	5392.4
5°	5233.9	5221.5	5196.9	5194.2	5196.9
7.5°	5006.9	4993.2	4968.7	4978.2	4990.5
10°	4815.5	4781.3	4771.7	4785.4	4808.6
12.5°	4644.5	4617.2	4609.0	4644.5	4661.0
15°	4481.8	4470.9	4473.7	4503.8	4517.4
17.5°	4341.1	4334.2	4352.0	4375.2	4382.1
20°	4200.2	4213.9	4230.3	4254.9	4263.1
22.5°	4062.1	4088.1	4115.5	4148.3	4137.3
25°	3935.0	3967.8	3999.3	4032.0	4022.5
27.5°	3799.6	3837.8	3881.6	3917.2	3903.5
30°	3669.7	3717.5	3760.0	3803.7	3783.2
32.5°	3541.2	3586.3	3636.9	3690.2	3667.0
35°	3411.3	3452.3	3511.1	3564.5	3546.7
37.5°	3267.8	3318.3	3385.3	3431.8	3419.6
40°	3133.8	3180.3	3260.9	3291.0	3288.2
42.5°	2998.4	3036.7	3121.4	3155.6	3150.2
45°	2833.0	2883.5	2980.6	3013.5	3016.2
47.5°	2686.7	2729.1	2833.0	2858.9	2864.4
50°	2518.5	2571.8	2675.7	2707.1	2711.3
52.5°	2353.0	2410.4	2517.1	2539.0	2543.1
55°	2184.8	2236.8	2353.0	2369.5	2362.6
57.5°	2008.5	2071.4	2178.1	2186.2	2193.1
60°	1836.2	1890.9	1994.8	2005.7	1990.7
62.5°	1648.9	1705.0	1811.6	1814.3	1802.0
65°	1471.1	1513.5	1621.5	1618.8	1610.6
67.5°	1285.2	1337.1	1416.5	1419.2	1412.4
70°	1111.5	1147.1	1223.7	1225.1	1208.7
72.5°	924.3	962.5	1024.0	1015.9	1011.8
75°	742.4	772.5	820.4	825.9	812.1
77.5°	575.6	597.5	633.1	629.0	613.9
80°	404.7	422.5	448.5	443.0	426.5
82.5°	258.4	269.4	285.8	278.9	272.1
85°	140.9	142.1	143.5	142.1	138.1
87.5°	52.0	53.3	53.3	52.0	47.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)