

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: P489770

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-1LO-30-120-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: P489770  
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-30-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

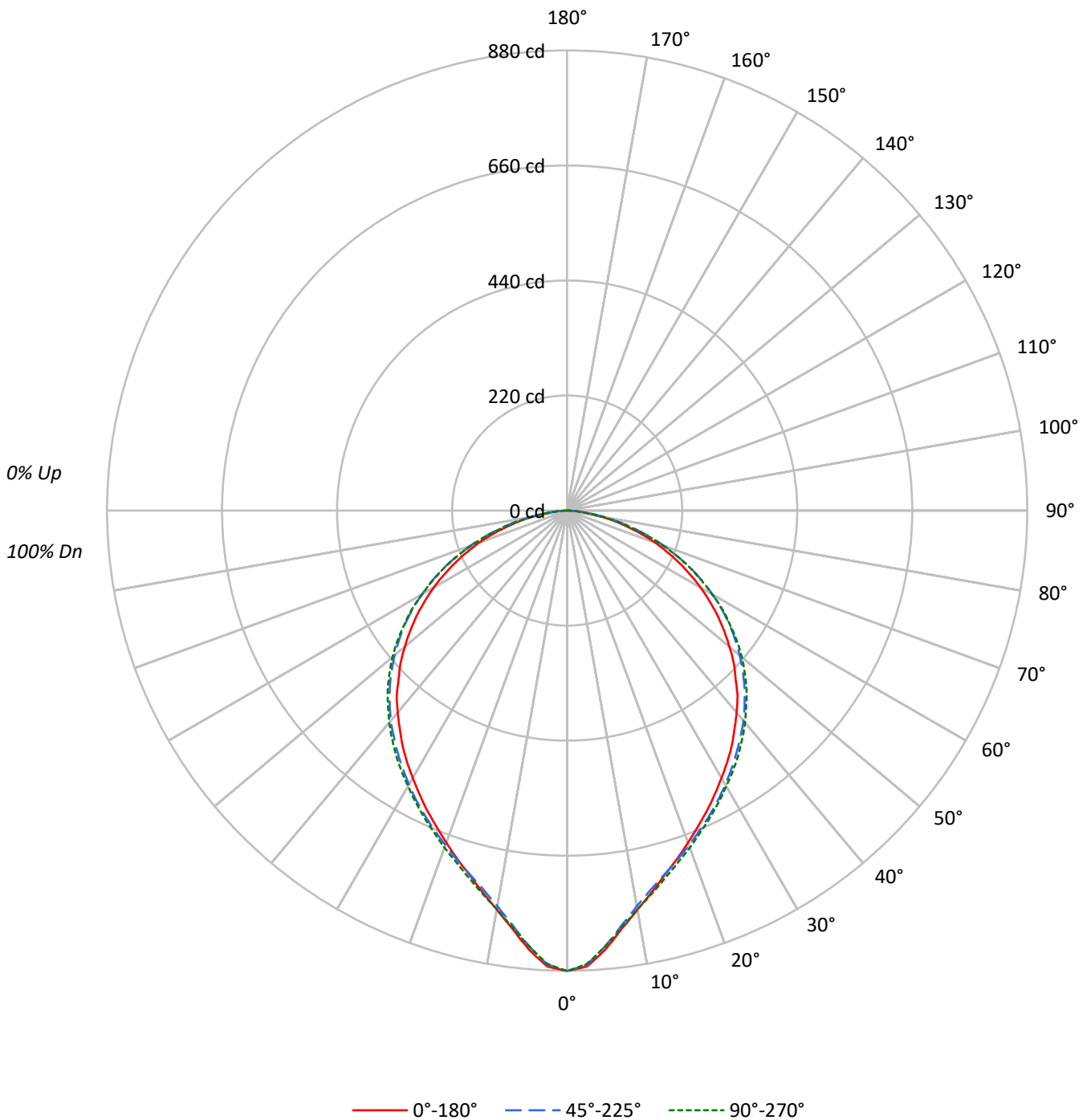
Lumens per Lamp: N/A  
Luminaire Lumens: 2045.1 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	1185	1185	1185
5°	1137	1129	1129
10°	1059	1049	1057
15°	1005	1003	1013
20°	968	975	982
25°	940	955	961
30°	917	940	946
35°	902	928	937
40°	886	922	929
45°	867	913	923
50°	848	901	913
55°	825	888	892
60°	795	864	862
65°	754	831	825
70°	704	775	765
75°	621	686	679
80°	504	559	532
85°	350	357	343



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.8	3.8
10°-20°	203.8	10.0
20°-30°	296.3	14.5
30°-40°	352.6	17.2
40°-50°	366.2	17.9
50°-60°	331.7	16.2
60°-70°	250.3	12.2
70°-80°	136.4	6.7
80°-90°	30.0	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°	577.9	28.3
0°-40°	930.6	45.5
0°-60°	1628.4	79.6
0°-90°	2045.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2045.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	880	880	880	880	880	
5°	842	840	836	836	836	78
15°	721	719	720	725	727	204
25°	633	638	644	649	647	292
35°	549	556	565	574	571	343
45°	456	464	480	485	485	352
55°	352	360	379	381	380	314
65°	237	244	261	260	259	234
75°	120	124	132	133	131	127
85°	23	23	23	23	22	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	880.4	880.4	880.4	880.4	880.4
2.5°	872.7	871.9	869.0	867.9	867.7
5°	842.2	840.2	836.2	835.8	836.2
7.5°	805.6	803.4	799.5	801.0	803.0
10°	774.8	769.3	767.8	770.0	773.7
12.5°	747.3	742.9	741.6	747.3	750.0
15°	721.2	719.4	719.8	724.7	726.9
17.5°	698.5	697.4	700.3	704.0	705.1
20°	675.8	678.1	680.7	684.7	686.0
22.5°	653.6	657.8	662.2	667.5	665.7
25°	633.2	638.4	643.5	648.8	647.3
27.5°	611.4	617.5	624.6	630.3	628.1
30°	590.5	598.2	605.0	612.0	608.7
32.5°	569.8	577.1	585.2	593.8	590.0
35°	548.9	555.5	565.0	573.6	570.7
37.5°	525.8	533.9	544.7	552.2	550.2
40°	504.2	511.7	524.7	529.5	529.1
42.5°	482.5	488.6	502.3	507.8	506.9
45°	455.8	464.0	479.6	484.9	485.3
47.5°	432.3	439.1	455.8	460.0	460.9
50°	405.2	413.8	430.5	435.6	436.3
52.5°	378.6	387.9	405.0	408.5	409.2
55°	351.6	359.9	378.6	381.3	380.2
57.5°	323.2	333.3	350.5	351.8	352.9
60°	295.5	304.3	321.0	322.7	320.3
62.5°	265.3	274.3	291.5	291.9	290.0
65°	236.7	243.5	260.9	260.5	259.2
67.5°	206.8	215.2	227.9	228.4	227.3
70°	178.9	184.6	196.9	197.1	194.5
72.5°	148.7	154.9	164.8	163.5	162.8
75°	119.5	124.3	132.0	132.9	130.7
77.5°	92.6	96.1	101.9	101.2	98.8
80°	65.1	68.0	72.2	71.3	68.6
82.5°	41.6	43.3	46.0	44.9	43.8
85°	22.7	22.9	23.1	22.9	22.2
87.5°	8.4	8.6	8.6	8.4	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)