

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: P488476

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-1LO-35-120-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: P488476  
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-12-2-INS-P12125-LD4-1LO-35-120-EDD-90  
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

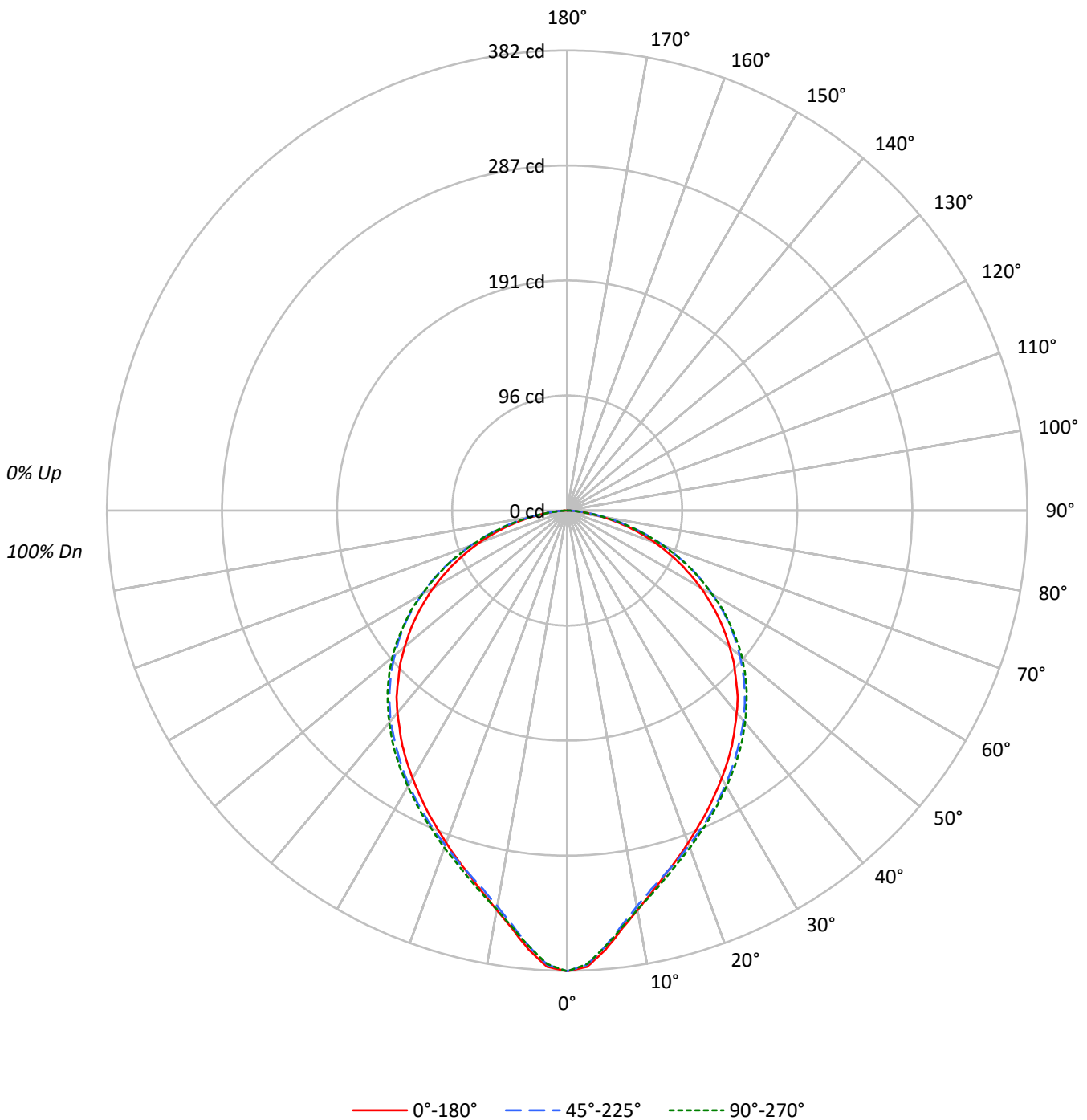
Lumens per Lamp: N/A  
Luminaire Lumens: 888.3 lumens  
Efficiency: N/A  
Efficacy: 75.9 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.7  
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°	2058	2058	2058
5°	1976	1962	1962
10°	1840	1823	1837
15°	1745	1742	1759
20°	1682	1694	1707
25°	1633	1660	1669
30°	1594	1633	1643
35°	1566	1612	1629
40°	1539	1601	1614
45°	1507	1585	1604
50°	1474	1566	1587
55°	1433	1544	1549
60°	1381	1500	1497
65°	1309	1443	1434
70°	1223	1345	1330
75°	1079	1192	1181
80°	877	970	924
85°	605	618	593



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.8	3.8
10°-20°	88.5	10.0
20°-30°	128.7	14.5
30°-40°	153.2	17.2
40°-50°	159.0	17.9
50°-60°	144.1	16.2
60°-70°	108.7	12.2
70°-80°	59.2	6.7
80°-90°	13.0	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°	251.0	28.3
0°-40°	404.2	45.5
0°-60°	707.3	79.6
0°-90°	888.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	888.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	382	382	382	382	382	
5°	366	365	363	363	363	34
15°	313	312	313	315	316	88
25°	275	277	280	282	281	127
35°	238	241	245	249	248	149
45°	198	202	208	211	211	153
55°	153	156	164	166	165	136
65°	103	106	113	113	113	102
75°	52	54	57	58	57	55
85°	10	10	10	10	10	12
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	382.4	382.4	382.4	382.4	382.4
2.5°	379.1	378.7	377.5	377.0	376.9
5°	365.8	364.9	363.2	363.0	363.2
7.5°	349.9	349.0	347.3	347.9	348.8
10°	336.6	334.2	333.5	334.5	336.1
12.5°	324.6	322.7	322.1	324.6	325.8
15°	313.2	312.5	312.7	314.8	315.7
17.5°	303.4	302.9	304.2	305.8	306.3
20°	293.6	294.5	295.7	297.4	298.0
22.5°	283.9	285.7	287.6	289.9	289.2
25°	275.0	277.3	279.5	281.8	281.1
27.5°	265.6	268.2	271.3	273.8	272.8
30°	256.5	259.8	262.8	265.8	264.4
32.5°	247.5	250.7	254.2	257.9	256.3
35°	238.4	241.3	245.4	249.1	247.9
37.5°	228.4	231.9	236.6	239.8	239.0
40°	219.0	222.3	227.9	230.0	229.8
42.5°	209.6	212.2	218.2	220.5	220.2
45°	198.0	201.5	208.3	210.6	210.8
47.5°	187.8	190.7	198.0	199.8	200.2
50°	176.0	179.7	187.0	189.2	189.5
52.5°	164.5	168.5	175.9	177.4	177.7
55°	152.7	156.3	164.5	165.6	165.1
57.5°	140.4	144.8	152.2	152.8	153.3
60°	128.3	132.2	139.4	140.2	139.1
62.5°	115.2	119.2	126.6	126.8	125.9
65°	102.8	105.8	113.3	113.1	112.6
67.5°	89.8	93.5	99.0	99.2	98.7
70°	77.7	80.2	85.5	85.6	84.5
72.5°	64.6	67.3	71.6	71.0	70.7
75°	51.9	54.0	57.3	57.7	56.8
77.5°	40.2	41.8	44.2	44.0	42.9
80°	28.3	29.5	31.3	31.0	29.8
82.5°	18.1	18.8	20.0	19.5	19.0
85°	9.8	9.9	10.0	9.9	9.6
87.5°	3.6	3.7	3.7	3.6	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)