

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: P488469

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-1HI-50-120-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: P488469  
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-LD4-1HI-50-120-EDD  
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

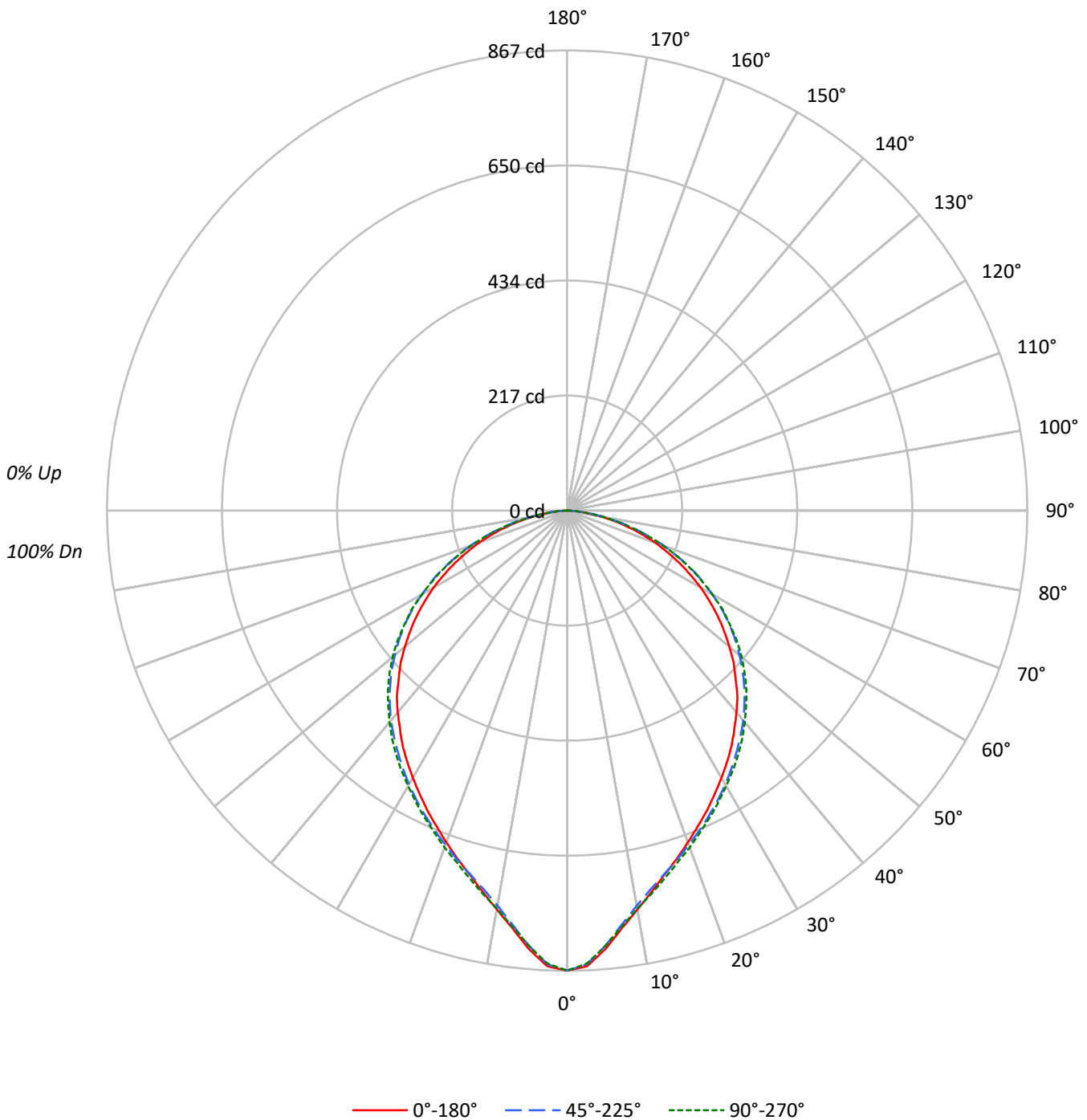
Lumens per Lamp: N/A  
Luminaire Lumens: 2013.0 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.6  
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

TEST NUMBER: P488469

CATALOG NUMBER: CLM-12-2-INS-P12125-LD4-1HI-50-120-EDD

### Luminous Intensity Polar Plot





TEST NUMBER: P488469

CATALOG NUMBER: CLM-12-2-INS-P12125-LD4-1HI-50-120-EDD

**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°	4664	4664	4664
5°	4478	4447	4447
10°	4168	4130	4162
15°	3955	3948	3987
20°	3810	3837	3867
25°	3701	3761	3783
30°	3612	3701	3724
35°	3550	3654	3690
40°	3487	3629	3659
45°	3415	3593	3636
50°	3340	3548	3595
55°	3247	3497	3511
60°	3130	3400	3394
65°	2967	3270	3249
70°	2769	3050	3012
75°	2445	2701	2674
80°	1987	2201	2095
85°	1377	1402	1352



TEST NUMBER: P488469

CATALOG NUMBER: CLM-12-2-INS-P12125-LD4-1HI-50-120-EDD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.6	3.8
10°-20°	200.6	10.0
20°-30°	291.7	14.5
30°-40°	347.1	17.2
40°-50°	360.4	17.9
50°-60°	326.5	16.2
60°-70°	246.4	12.2
70°-80°	134.2	6.7
80°-90°	29.5	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°	568.8	28.3
0°-40°	915.9	45.5
0°-60°	1602.9	79.6
0°-90°	2013.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2013.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	867	867	867	867	867	
5°	829	827	823	823	823	77
15°	710	708	708	713	716	200
25°	623	628	633	639	637	287
35°	540	547	556	564	562	338
45°	449	457	472	477	478	347
55°	346	354	373	375	374	309
65°	233	240	257	256	255	230
75°	118	122	130	131	129	125
85°	22	22	23	22	22	28
90°	0	0	0	0	0	



TEST NUMBER: P488469

CATALOG NUMBER: CLM-12-2-INS-P12125-LD4-1HI-50-120-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	866.6	866.6	866.6	866.6	866.6
2.5°	859.0	858.2	855.4	854.3	854.1
5°	828.9	827.0	823.1	822.7	823.1
7.5°	793.0	790.8	786.9	788.5	790.4
10°	762.7	757.3	755.7	757.9	761.6
12.5°	735.6	731.3	730.0	735.6	738.2
15°	709.8	708.1	708.5	713.3	715.5
17.5°	687.5	686.5	689.3	693.0	694.0
20°	665.2	667.4	670.0	673.9	675.2
22.5°	643.4	647.5	651.8	657.0	655.3
25°	623.2	628.4	633.4	638.6	637.1
27.5°	601.8	607.8	614.8	620.4	618.2
30°	581.2	588.8	595.5	602.4	599.2
32.5°	560.9	568.0	576.0	584.5	580.8
35°	540.3	546.8	556.1	564.5	561.7
37.5°	517.6	525.6	536.2	543.5	541.6
40°	496.3	503.7	516.5	521.2	520.8
42.5°	474.9	481.0	494.4	499.8	498.9
45°	448.7	456.7	472.1	477.3	477.7
47.5°	425.5	432.2	448.7	452.8	453.7
50°	398.9	407.3	423.8	428.8	429.4
52.5°	372.7	381.8	398.7	402.1	402.8
55°	346.0	354.3	372.7	375.3	374.2
57.5°	318.1	328.1	345.0	346.3	347.3
60°	290.8	299.5	315.9	317.7	315.3
62.5°	261.2	270.0	286.9	287.4	285.4
65°	233.0	239.7	256.8	256.4	255.1
67.5°	203.5	211.8	224.3	224.8	223.7
70°	176.0	181.7	193.8	194.0	191.4
72.5°	146.4	152.4	162.2	160.9	160.3
75°	117.6	122.4	129.9	130.8	128.6
77.5°	91.2	94.6	100.3	99.6	97.2
80°	64.1	66.9	71.0	70.2	67.6
82.5°	40.9	42.7	45.3	44.2	43.1
85°	22.3	22.5	22.7	22.5	21.9
87.5°	8.2	8.4	8.4	8.2	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)