

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: P488605

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-3HI-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: P488605  
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-12-4-INS-A12125-LD4-3HI-27-120-EDD  
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

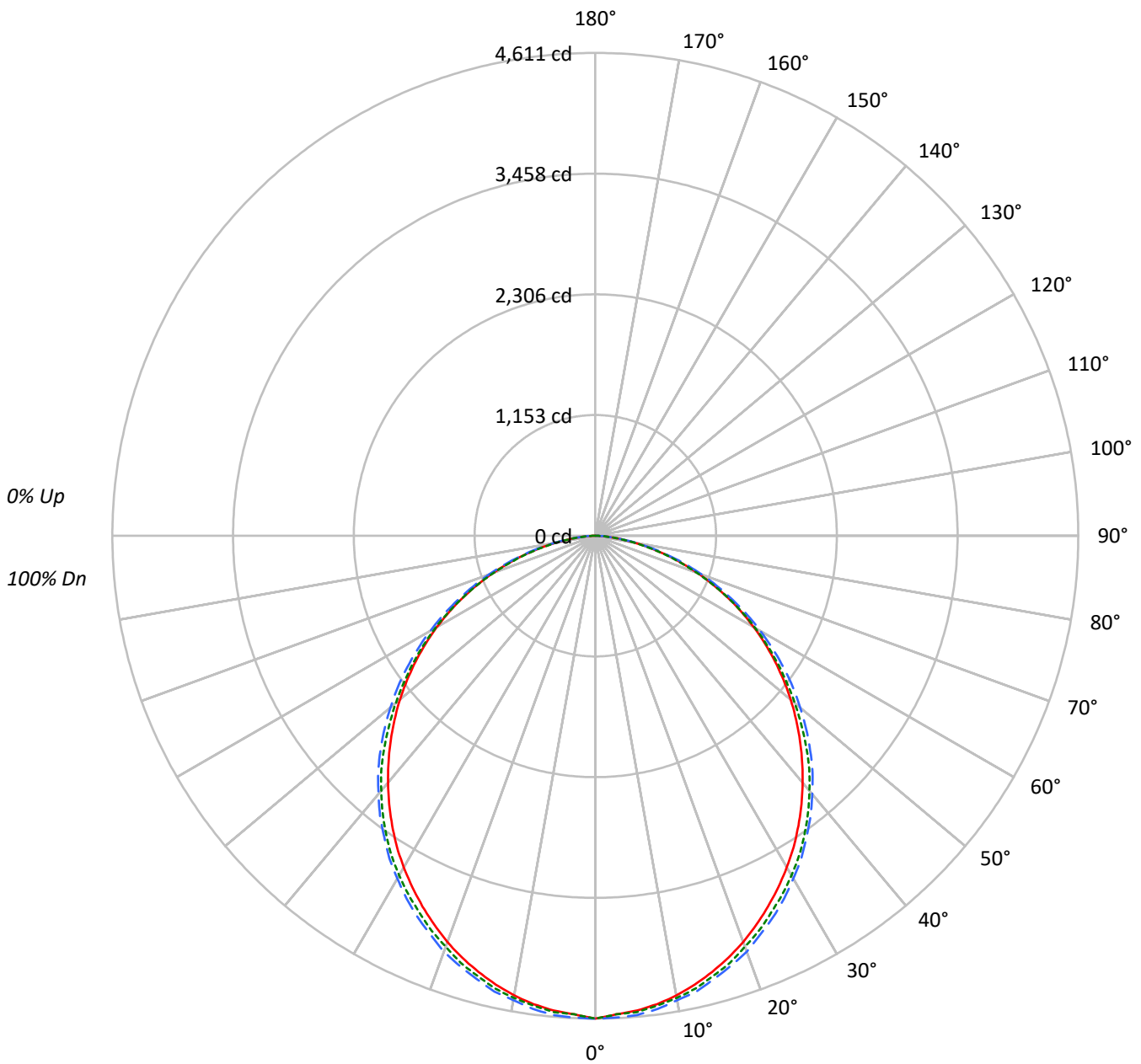
Lumens per Lamp: N/A  
Luminaire Lumens: 12123.5 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 129.6  
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: P488605

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-3HI-27-120-EDD

### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    . . . 90°-270°



TEST NUMBER: P488605

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-3HI-27-120-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	50	30	10	50	30	10	
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100	
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85	85	85	85	85	85	
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71	71	71	71	71	71	
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60	60	60	60	60	60	
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51	51	51	51	51	51	
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45	45	45	45	45	45	
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39	39	39	39	39	39	
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35	35	35	35	35	35	
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31	31	31	31	31	31	
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28	28	28	28	28	28	
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25	25	25	25	25	25	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	12409	12409	12409
5°	12294	12410	12333
10°	12182	12305	12246
15°	12013	12207	12121
20°	11824	12105	11959
25°	11593	11930	11793
30°	11359	11745	11637
35°	11104	11544	11436
40°	10815	11313	11169
45°	10511	11042	10833
50°	10196	10688	10409
55°	9826	10285	9970
60°	9407	9797	9495
65°	8865	9205	8872
70°	8157	8486	8067
75°	7183	7508	7073
80°	5838	6090	5769
85°	4063	4332	4227

TEST NUMBER: P488605

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-3HI-27-120-EDD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	434.3	3.6
10°-20°	1230.7	10.2
20°-30°	1835.5	15.1
30°-40°	2175.1	17.9
40°-50°	2200.9	18.2
50°-60°	1922.2	15.9
60°-70°	1404.6	11.6
70°-80°	747.4	6.2
80°-90°	172.7	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
<b>0°-30°</b>	<b>3500.5</b>	<b>28.9</b>
<b>0°-40°</b>	<b>5675.7</b>	<b>46.8</b>
<b>0°-60°</b>	<b>9798.7</b>	<b>80.8</b>
<b>0°-90°</b>	<b>12123.5</b>	<b>100.0</b>
<b>90°-120°</b>	<b>0.0</b>	<b>0.0</b>
<b>90°-150°</b>	<b>0.0</b>	<b>0.0</b>
<b>90°-180°</b>	<b>0.0</b>	<b>0.0</b>
<b>0°-180°</b>	<b>12123.5</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4611	4611	4611	4611	4611	
5°	4551	4560	4594	4605	4566	432
15°	4312	4341	4382	4408	4351	1216
25°	3905	3953	4018	4033	3972	1799
35°	3380	3433	3514	3538	3481	2114
45°	2762	2811	2901	2904	2847	2131
55°	2094	2137	2192	2161	2125	1872
65°	1392	1421	1446	1417	1393	1378
75°	691	707	722	696	680	735
85°	132	134	140	142	137	167
90°	0	0	0	0	0	



TEST NUMBER: P488605

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-3HI-27-120-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4611.3	4611.3	4611.3	4611.3	4611.3
2.5°	4575.3	4590.2	4605.6	4612.3	4574.8
5°	4551.3	4559.9	4594.1	4604.6	4565.7
7.5°	4511.9	4524.9	4558.0	4562.8	4525.3
10°	4458.1	4481.1	4503.2	4527.3	4481.6
12.5°	4389.4	4420.6	4458.1	4462.4	4427.8
15°	4312.0	4340.9	4381.7	4408.1	4350.9
17.5°	4225.5	4253.4	4306.3	4311.1	4276.5
20°	4129.0	4163.6	4227.0	4238.0	4176.1
22.5°	4019.4	4066.0	4118.9	4129.5	4083.8
25°	3904.6	3952.7	4018.0	4032.9	3971.9
27.5°	3784.5	3830.6	3904.1	3914.7	3863.3
30°	3655.7	3699.0	3779.7	3797.5	3745.1
32.5°	3525.1	3568.3	3657.7	3672.6	3621.6
35°	3380.0	3432.8	3514.0	3538.5	3481.3
37.5°	3232.0	3283.4	3375.6	3397.7	3336.2
40°	3078.7	3129.6	3220.4	3238.7	3179.6
42.5°	2922.1	2973.0	3070.1	3073.0	3023.9
45°	2762.1	2811.1	2901.4	2903.8	2846.7
47.5°	2599.7	2649.2	2729.9	2720.8	2667.0
50°	2435.4	2482.5	2553.1	2534.8	2486.3
52.5°	2265.3	2311.0	2377.7	2348.0	2302.3
55°	2094.3	2136.6	2192.3	2160.6	2125.0
57.5°	1921.8	1964.6	2007.3	1975.1	1944.4
60°	1747.9	1785.3	1820.4	1787.8	1764.2
62.5°	1571.1	1603.3	1633.5	1602.3	1580.2
65°	1392.3	1420.7	1445.7	1416.8	1393.3
67.5°	1214.6	1238.6	1261.7	1231.9	1207.4
70°	1036.8	1057.5	1078.6	1047.9	1025.3
72.5°	861.4	879.7	898.4	868.7	849.0
75°	690.9	706.7	722.1	695.7	680.3
77.5°	528.0	541.5	552.0	535.2	520.3
80°	376.7	386.8	393.0	386.3	372.3
82.5°	242.1	249.4	252.7	252.2	243.1
85°	131.6	134.0	140.3	141.7	136.9
87.5°	50.9	54.3	55.7	60.1	55.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)