

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: P488623

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-3LO-40-120-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: P488623  
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-LD4-3LO-40-120-EDD  
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

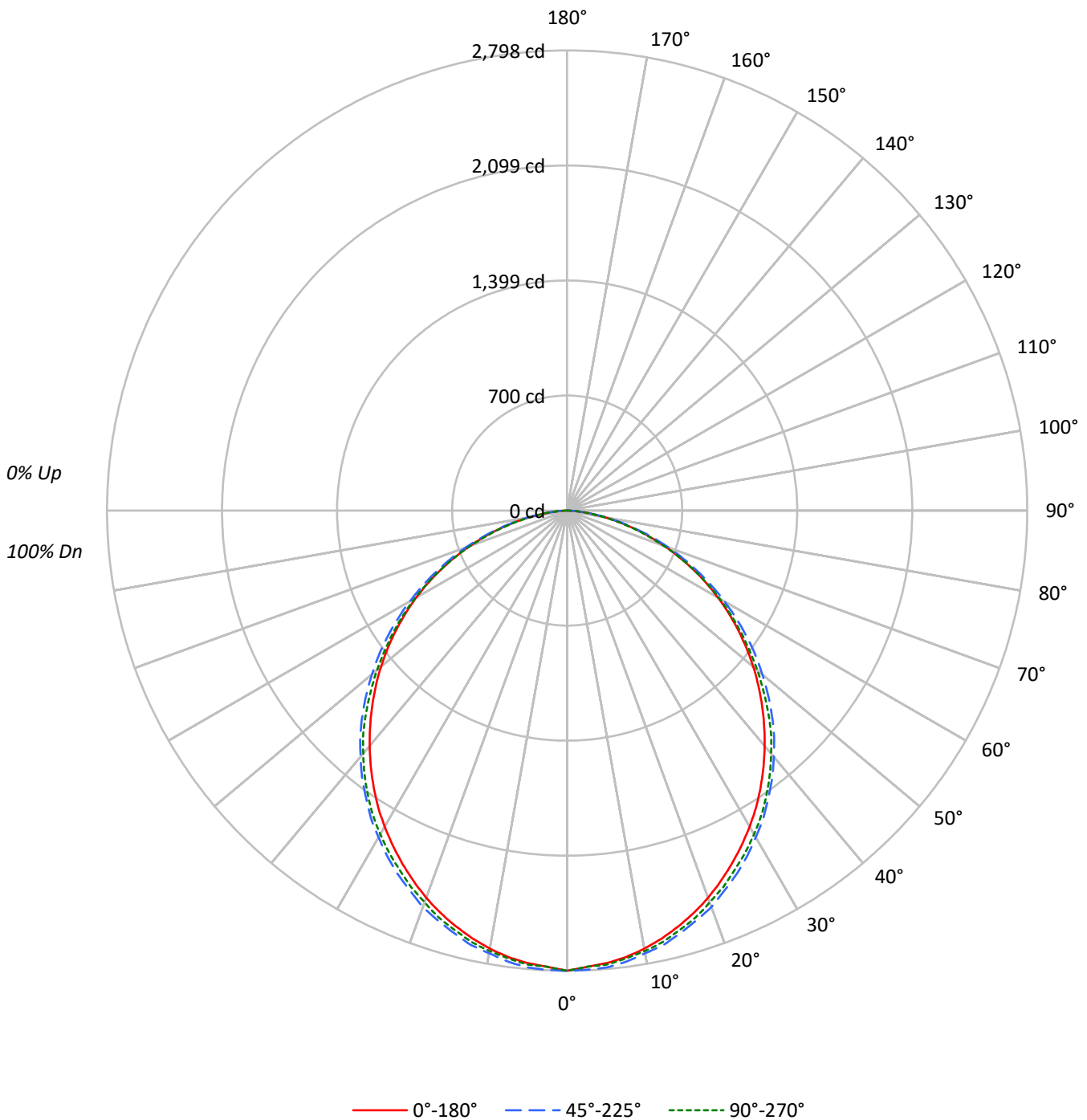
Lumens per Lamp: N/A  
Luminaire Lumens: 7357.2 lumens  
Efficiency: N/A  
Efficacy: 104.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 70.2  
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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	7530	7530	7530
5°	7461	7531	7484
10°	7392	7467	7432
15°	7290	7408	7356
20°	7176	7346	7257
25°	7035	7240	7157
30°	6893	7127	7062
35°	6738	7005	6940
40°	6563	6865	6778
45°	6379	6701	6574
50°	6187	6486	6316
55°	5963	6242	6050
60°	5709	5945	5762
65°	5380	5586	5384
70°	4950	5150	4895
75°	4360	4556	4293
80°	3543	3696	3502
85°	2467	2628	2566



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.6	3.6
10°-20°	746.9	10.2
20°-30°	1113.9	15.1
30°-40°	1320.0	17.9
40°-50°	1335.6	18.2
50°-60°	1166.5	15.9
60°-70°	852.4	11.6
70°-80°	453.6	6.2
80°-90°	104.8	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
0°-30°	2124.3	28.9
0°-40°	3444.3	46.8
0°-60°	5946.4	80.8
0°-90°	7357.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7357.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2798	2798	2798	2798	2798	
5°	2762	2767	2788	2794	2771	262
15°	2617	2634	2659	2675	2640	738
25°	2370	2399	2438	2447	2410	1092
35°	2051	2083	2132	2147	2113	1283
45°	1676	1706	1761	1762	1728	1293
55°	1271	1297	1330	1311	1290	1136
65°	845	862	877	860	846	836
75°	419	429	438	422	413	446
85°	80	81	85	86	83	101
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2798.4	2798.4	2798.4	2798.4	2798.4
2.5°	2776.5	2785.6	2794.9	2799.0	2776.3
5°	2762.0	2767.2	2787.9	2794.3	2770.7
7.5°	2738.1	2745.9	2766.1	2769.0	2746.2
10°	2705.4	2719.4	2732.8	2747.4	2719.7
12.5°	2663.7	2682.7	2705.4	2708.0	2687.0
15°	2616.8	2634.3	2659.1	2675.1	2640.4
17.5°	2564.3	2581.2	2613.3	2616.2	2595.2
20°	2505.7	2526.7	2565.2	2571.9	2534.3
22.5°	2439.2	2467.5	2499.6	2506.0	2478.3
25°	2369.5	2398.7	2438.3	2447.4	2410.3
27.5°	2296.6	2324.6	2369.2	2375.7	2344.5
30°	2218.5	2244.7	2293.7	2304.5	2272.7
32.5°	2139.2	2165.4	2219.7	2228.7	2197.8
35°	2051.1	2083.2	2132.5	2147.4	2112.7
37.5°	1961.3	1992.5	2048.5	2061.9	2024.6
40°	1868.3	1899.2	1954.3	1965.4	1929.6
42.5°	1773.3	1804.2	1863.1	1864.8	1835.1
45°	1676.2	1705.9	1760.7	1762.2	1727.5
47.5°	1577.6	1607.7	1656.7	1651.1	1618.5
50°	1477.9	1506.5	1549.4	1538.3	1508.8
52.5°	1374.7	1402.4	1442.9	1424.9	1397.2
55°	1270.9	1296.6	1330.4	1311.2	1289.6
57.5°	1166.3	1192.2	1218.1	1198.6	1180.0
60°	1060.7	1083.4	1104.7	1084.9	1070.6
62.5°	953.4	972.9	991.3	972.4	958.9
65°	844.9	862.2	877.3	859.8	845.5
67.5°	737.1	751.6	765.6	747.6	732.7
70°	629.2	641.7	654.6	635.9	622.2
72.5°	522.8	533.9	545.2	527.1	515.2
75°	419.3	428.9	438.2	422.2	412.9
77.5°	320.4	328.6	335.0	324.8	315.8
80°	228.6	234.7	238.5	234.4	226.0
82.5°	146.9	151.3	153.4	153.1	147.5
85°	79.9	81.3	85.1	86.0	83.1
87.5°	30.9	32.9	33.8	36.4	33.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)