

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: P488621

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-3LO-35-120-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: P488621  
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-35-120-EDD  
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

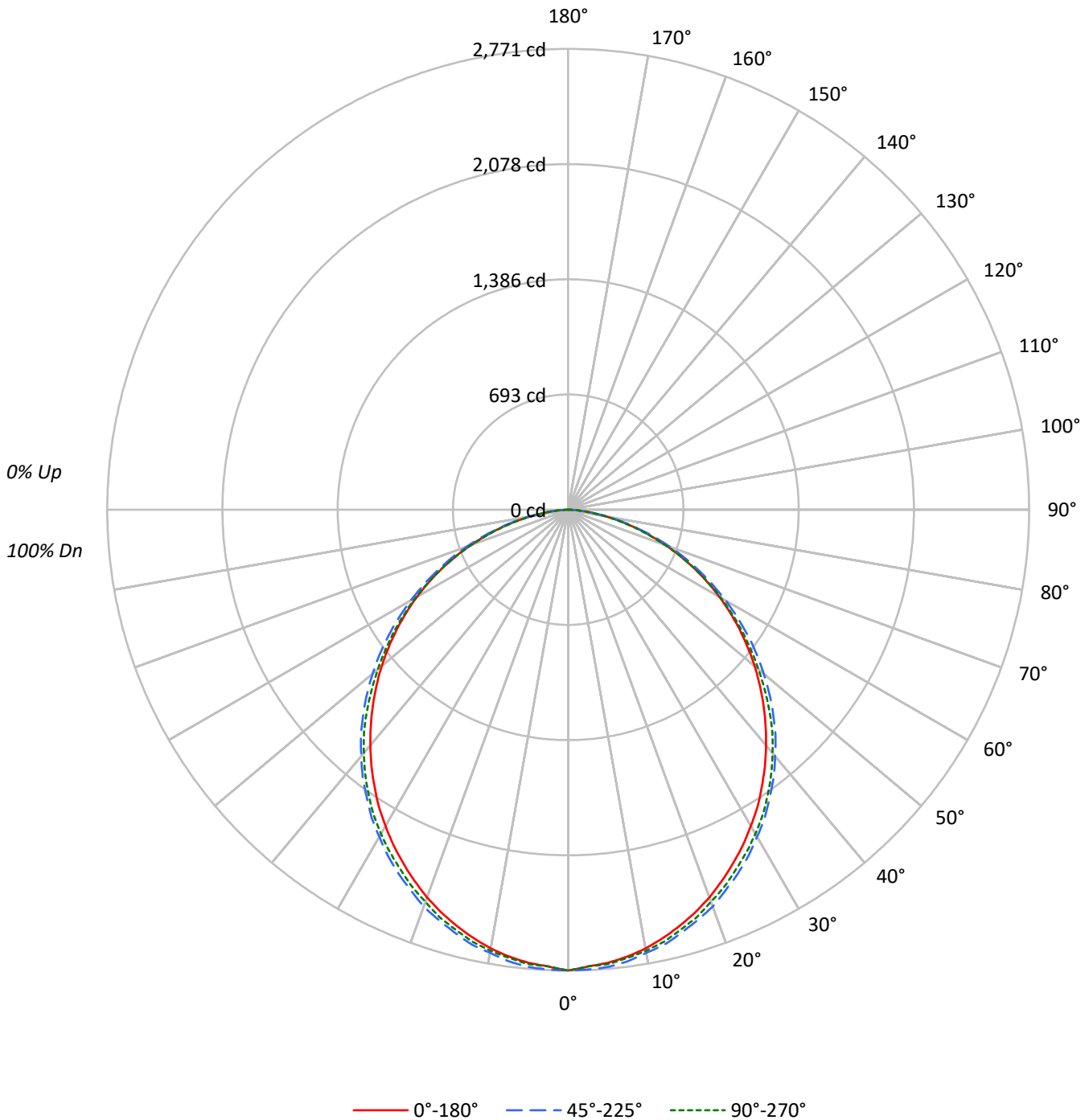
Lumens per Lamp: N/A  
Luminaire Lumens: 7284.3 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

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°	7456	7456	7456
5°	7387	7456	7410
10°	7319	7393	7358
15°	7218	7334	7283
20°	7105	7273	7186
25°	6966	7168	7086
30°	6825	7057	6992
35°	6671	6936	6871
40°	6498	6797	6711
45°	6316	6634	6509
50°	6126	6422	6254
55°	5903	6180	5990
60°	5652	5887	5705
65°	5327	5531	5331
70°	4902	5099	4847
75°	4316	4511	4250
80°	3507	3659	3467
85°	2442	2603	2541



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.9	3.6
10°-20°	739.5	10.2
20°-30°	1102.9	15.1
30°-40°	1306.9	17.9
40°-50°	1322.4	18.2
50°-60°	1154.9	15.9
60°-70°	844.0	11.6
70°-80°	449.1	6.2
80°-90°	103.8	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°	2103.3	28.9
0°-40°	3410.2	46.8
0°-60°	5887.5	80.8
0°-90°	7284.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7284.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2771	2771	2771	2771	2771	
5°	2735	2740	2760	2767	2743	259
15°	2591	2608	2633	2649	2614	730
25°	2346	2375	2414	2423	2386	1081
35°	2031	2063	2111	2126	2092	1270
45°	1660	1689	1743	1745	1710	1280
55°	1258	1284	1317	1298	1277	1125
65°	837	854	869	851	837	828
75°	415	425	434	418	409	441
85°	79	80	84	85	82	100
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2770.7	2770.7	2770.7	2770.7	2770.7
2.5°	2749.0	2758.0	2767.2	2771.3	2748.7
5°	2734.6	2739.8	2760.3	2766.6	2743.3
7.5°	2710.9	2718.7	2738.6	2741.5	2719.0
10°	2678.6	2692.5	2705.7	2720.2	2692.7
12.5°	2637.3	2656.1	2678.6	2681.2	2660.4
15°	2590.8	2608.2	2632.7	2648.6	2614.2
17.5°	2538.9	2555.6	2587.4	2590.3	2569.5
20°	2480.9	2501.6	2539.7	2546.4	2509.2
22.5°	2415.0	2443.0	2474.8	2481.1	2453.7
25°	2346.0	2374.9	2414.2	2423.1	2386.5
27.5°	2273.9	2301.6	2345.8	2352.1	2321.2
30°	2196.5	2222.5	2271.0	2281.7	2250.2
32.5°	2118.0	2144.0	2197.7	2206.6	2176.0
35°	2030.8	2062.6	2111.4	2126.1	2091.7
37.5°	1941.9	1972.8	2028.2	2041.5	2004.5
40°	1849.8	1880.4	1935.0	1945.9	1910.4
42.5°	1755.7	1786.3	1844.6	1846.4	1816.9
45°	1659.6	1689.0	1743.3	1744.7	1710.4
47.5°	1562.0	1591.7	1640.2	1634.8	1602.4
50°	1463.3	1491.6	1534.0	1523.0	1493.9
52.5°	1361.1	1388.5	1428.6	1410.7	1383.3
55°	1258.3	1283.7	1317.2	1298.2	1276.8
57.5°	1154.7	1180.4	1206.1	1186.7	1168.3
60°	1050.2	1072.7	1093.8	1074.2	1060.0
62.5°	944.0	963.3	981.5	962.7	949.4
65°	836.6	853.6	868.6	851.3	837.2
67.5°	729.8	744.2	758.1	740.2	725.4
70°	623.0	635.4	648.1	629.6	616.0
72.5°	517.6	528.6	539.8	521.9	510.1
75°	415.1	424.6	433.9	418.0	408.8
77.5°	317.3	325.3	331.7	321.6	312.6
80°	226.3	232.4	236.1	232.1	223.7
82.5°	145.5	149.8	151.8	151.6	146.1
85°	79.1	80.5	84.3	85.2	82.3
87.5°	30.6	32.6	33.5	36.1	33.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)