

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: P488572

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-2HI-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: P488572  
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-LD4-2HI-35-120-EDD-90  
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

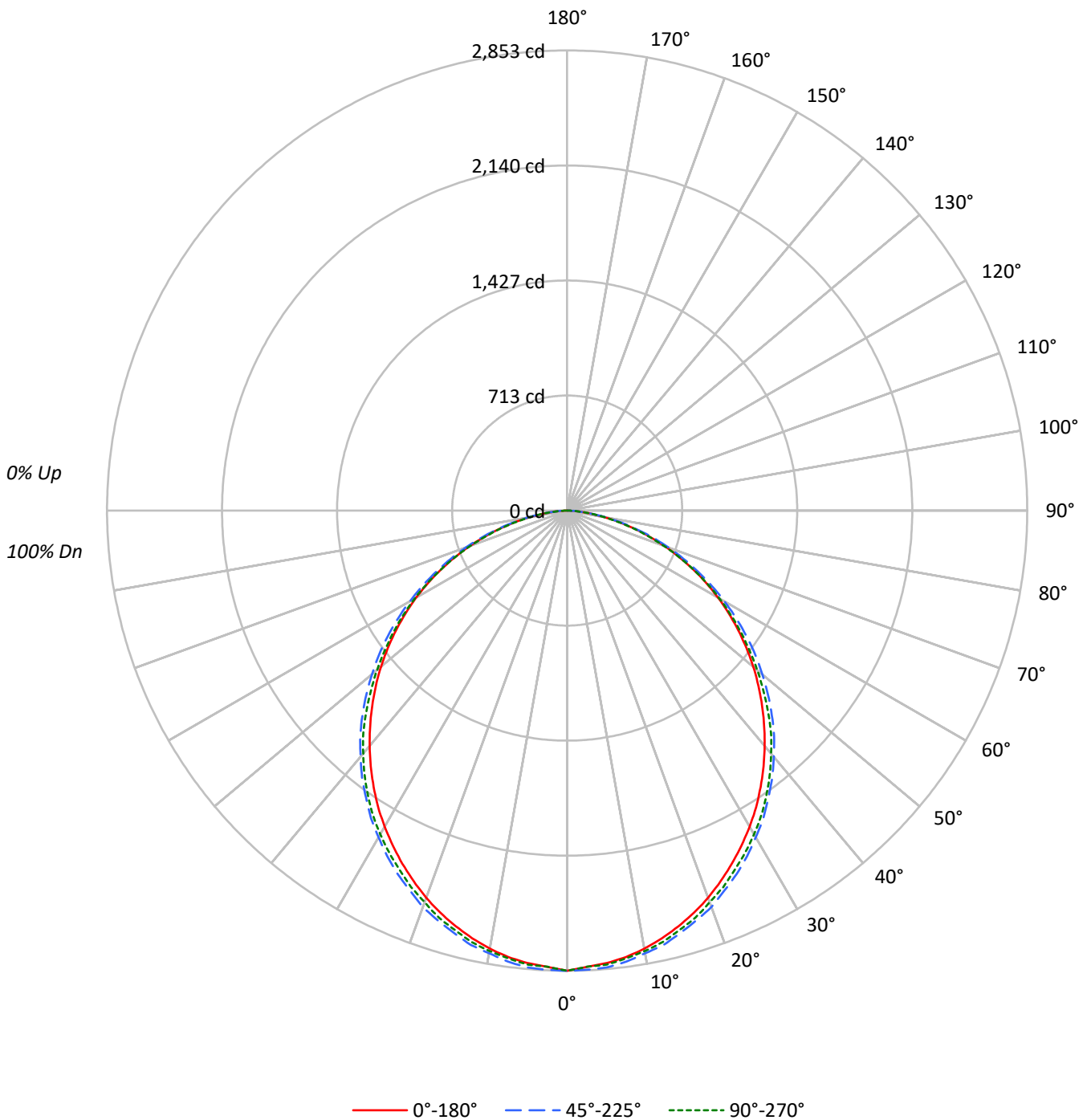
Lumens per Lamp: N/A  
Luminaire Lumens: 7501.7 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 86.4  
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°	7678	7678	7678
5°	7607	7679	7631
10°	7538	7614	7577
15°	7433	7553	7500
20°	7316	7490	7400
25°	7174	7382	7297
30°	7029	7267	7201
35°	6870	7143	7077
40°	6692	7000	6911
45°	6504	6832	6703
50°	6309	6614	6441
55°	6080	6364	6169
60°	5821	6062	5875
65°	5486	5696	5489
70°	5047	5251	4991
75°	4445	4645	4377
80°	3612	3769	3570
85°	2516	2680	2615



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.7	3.6
10°-20°	761.5	10.2
20°-30°	1135.8	15.1
30°-40°	1345.9	17.9
40°-50°	1361.9	18.2
50°-60°	1189.4	15.9
60°-70°	869.1	11.6
70°-80°	462.5	6.2
80°-90°	106.9	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°	2166.0	28.9
0°-40°	3512.0	46.8
0°-60°	6063.2	80.8
0°-90°	7501.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7501.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2853	2853	2853	2853	2853	
5°	2816	2822	2843	2849	2825	267
15°	2668	2686	2711	2728	2692	752
25°	2416	2446	2486	2495	2458	1113
35°	2091	2124	2174	2190	2154	1308
45°	1709	1739	1795	1797	1761	1319
55°	1296	1322	1356	1337	1315	1158
65°	862	879	894	877	862	853
75°	428	437	447	430	421	455
85°	82	83	87	88	85	103
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2853.4	2853.4	2853.4	2853.4	2853.4
2.5°	2831.1	2840.3	2849.8	2854.0	2830.8
5°	2816.2	2821.6	2842.7	2849.2	2825.1
7.5°	2791.8	2799.9	2820.4	2823.4	2800.2
10°	2758.5	2772.8	2786.5	2801.4	2773.1
12.5°	2716.0	2735.4	2758.5	2761.2	2739.8
15°	2668.2	2686.0	2711.3	2727.6	2692.2
17.5°	2614.7	2631.9	2664.6	2667.6	2646.2
20°	2554.9	2576.3	2615.5	2622.4	2584.0
22.5°	2487.1	2516.0	2548.7	2555.2	2527.0
25°	2416.1	2445.8	2486.2	2495.4	2457.7
27.5°	2341.7	2370.3	2415.8	2422.3	2390.5
30°	2262.1	2288.8	2338.8	2349.8	2317.4
32.5°	2181.2	2208.0	2263.3	2272.5	2241.0
35°	2091.4	2124.1	2174.4	2189.5	2154.2
37.5°	1999.9	2031.7	2088.8	2102.4	2064.4
40°	1905.0	1936.5	1992.7	2004.0	1967.5
42.5°	1808.1	1839.6	1899.7	1901.5	1871.1
45°	1709.1	1739.4	1795.3	1796.8	1761.4
47.5°	1608.6	1639.3	1689.2	1683.5	1650.3
50°	1507.0	1536.1	1579.8	1568.5	1538.5
52.5°	1401.7	1430.0	1471.3	1452.9	1424.6
55°	1295.9	1322.0	1356.5	1336.9	1314.9
57.5°	1189.2	1215.6	1242.1	1222.2	1203.1
60°	1081.5	1104.7	1126.4	1106.2	1091.6
62.5°	972.1	992.1	1010.8	991.5	977.8
65°	861.5	879.1	894.5	876.7	862.1
67.5°	751.5	766.4	780.7	762.2	747.1
70°	641.5	654.3	667.4	648.4	634.4
72.5°	533.0	544.3	555.9	537.5	525.3
75°	427.5	437.3	446.8	430.5	421.0
77.5°	326.7	335.0	341.6	331.2	322.0
80°	233.1	239.3	243.2	239.0	230.4
82.5°	149.8	154.3	156.4	156.1	150.4
85°	81.5	82.9	86.8	87.7	84.7
87.5°	31.5	33.6	34.5	37.2	34.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)