

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: P488575

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-2HI-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: P488575  
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-40-120-EDD  
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

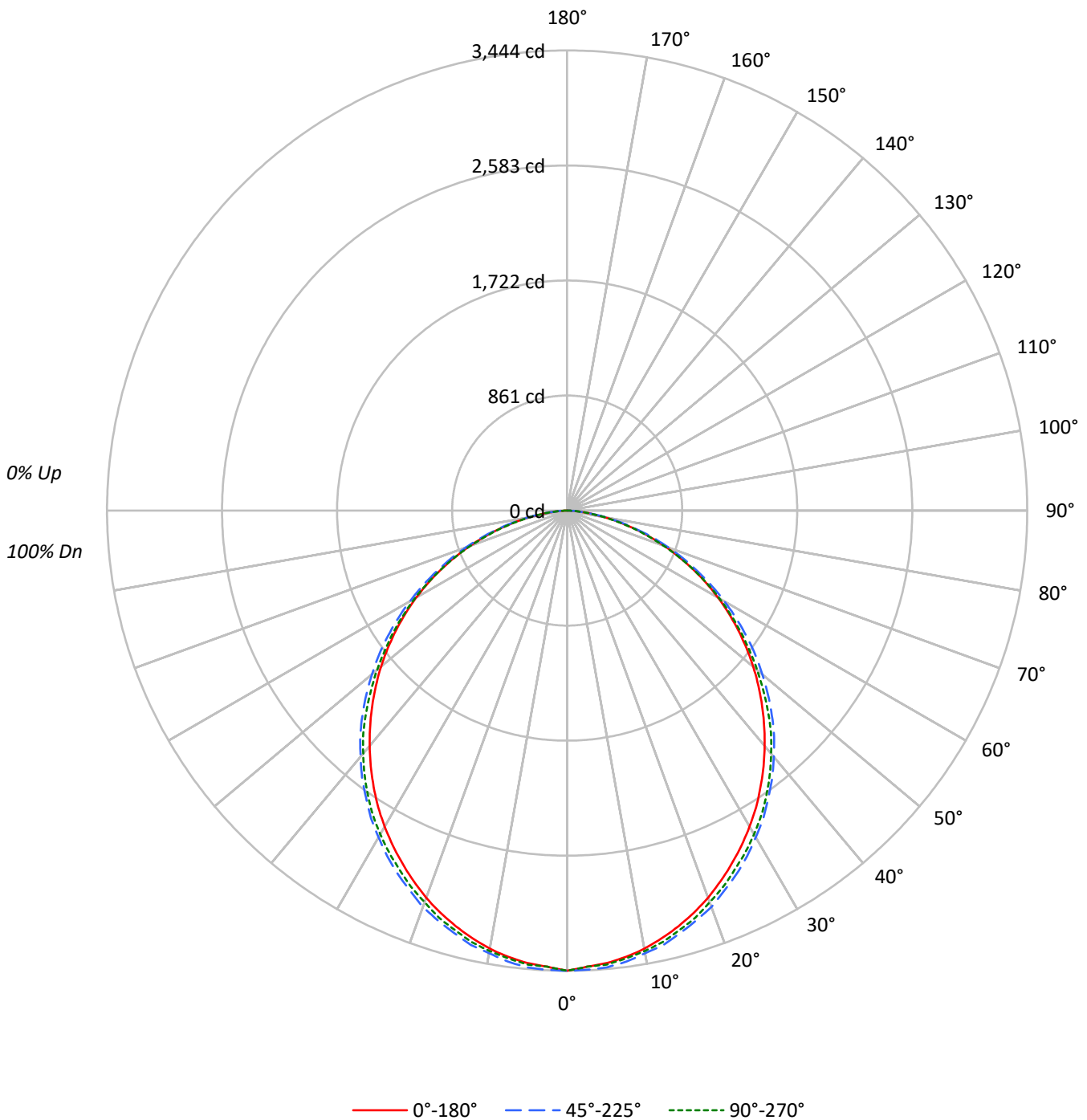
Lumens per Lamp: N/A  
Luminaire Lumens: 9055.0 lumens  
Efficiency: N/A  
Efficacy: 104.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	9268	9268	9268
5°	9182	9269	9212
10°	9098	9191	9146
15°	8972	9117	9053
20°	8831	9041	8932
25°	8659	8910	8808
30°	8484	8772	8692
35°	8293	8622	8542
40°	8078	8449	8342
45°	7851	8247	8092
50°	7615	7983	7774
55°	7339	7682	7446
60°	7026	7318	7092
65°	6621	6876	6627
70°	6093	6338	6025
75°	5365	5607	5283
80°	4359	4548	4310
85°	3035	3236	3159



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	324.4	3.6
10°-20°	919.2	10.2
20°-30°	1371.0	15.1
30°-40°	1624.6	17.9
40°-50°	1643.9	18.2
50°-60°	1435.7	15.9
60°-70°	1049.1	11.6
70°-80°	558.2	6.2
80°-90°	129.0	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°	2614.5	28.9
0°-40°	4239.1	46.8
0°-60°	7318.7	80.8
0°-90°	9055.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9055.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3444	3444	3444	3444	3444	
5°	3399	3406	3431	3439	3410	322
15°	3221	3242	3273	3292	3250	908
25°	2916	2952	3001	3012	2967	1344
35°	2524	2564	2625	2643	2600	1579
45°	2063	2100	2167	2169	2126	1592
55°	1564	1596	1637	1614	1587	1398
65°	1040	1061	1080	1058	1041	1029
75°	516	528	539	520	508	549
85°	98	100	105	106	102	125
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3444.2	3444.2	3444.2	3444.2	3444.2
2.5°	3417.3	3428.4	3439.9	3444.9	3416.9
5°	3399.3	3405.8	3431.3	3439.2	3410.1
7.5°	3369.9	3379.6	3404.4	3408.0	3380.0
10°	3329.7	3347.0	3363.5	3381.4	3347.3
12.5°	3278.4	3301.7	3329.7	3333.0	3307.1
15°	3220.6	3242.2	3272.7	3292.4	3249.7
17.5°	3156.0	3176.9	3216.3	3219.9	3194.1
20°	3083.9	3109.8	3157.1	3165.4	3119.1
22.5°	3002.1	3036.9	3076.4	3084.3	3050.2
25°	2916.3	2952.2	3001.0	3012.1	2966.6
27.5°	2826.6	2861.1	2916.0	2923.9	2885.5
30°	2730.5	2762.8	2823.0	2836.3	2797.2
32.5°	2632.8	2665.1	2731.9	2743.0	2705.0
35°	2524.5	2564.0	2624.6	2642.9	2600.2
37.5°	2414.0	2452.4	2521.2	2537.8	2491.8
40°	2299.5	2337.5	2405.3	2419.0	2374.8
42.5°	2182.5	2220.5	2293.0	2295.2	2258.6
45°	2063.0	2099.6	2167.1	2168.9	2126.2
47.5°	1941.7	1978.7	2039.0	2032.1	1992.0
50°	1819.0	1854.2	1906.9	1893.3	1857.0
52.5°	1692.0	1726.0	1775.9	1753.7	1719.6
55°	1564.2	1595.8	1637.4	1613.7	1587.2
57.5°	1435.4	1467.3	1499.3	1475.2	1452.2
60°	1305.5	1333.5	1359.7	1335.3	1317.7
62.5°	1173.4	1197.5	1220.1	1196.7	1180.2
65°	1039.9	1061.1	1079.8	1058.2	1040.7
67.5°	907.2	925.1	942.3	920.1	901.8
70°	774.4	789.8	805.6	782.6	765.8
72.5°	643.4	657.0	671.0	648.8	634.1
75°	516.0	527.9	539.3	519.6	508.1
77.5°	394.4	404.4	412.3	399.8	388.6
80°	281.3	288.9	293.5	288.5	278.1
82.5°	180.9	186.2	188.8	188.4	181.6
85°	98.3	100.1	104.8	105.9	102.3
87.5°	38.0	40.5	41.6	44.9	41.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)