

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: P488637

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-3STD-50-120-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: P488637  
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-LD4-3STD-50-120-EDD  
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

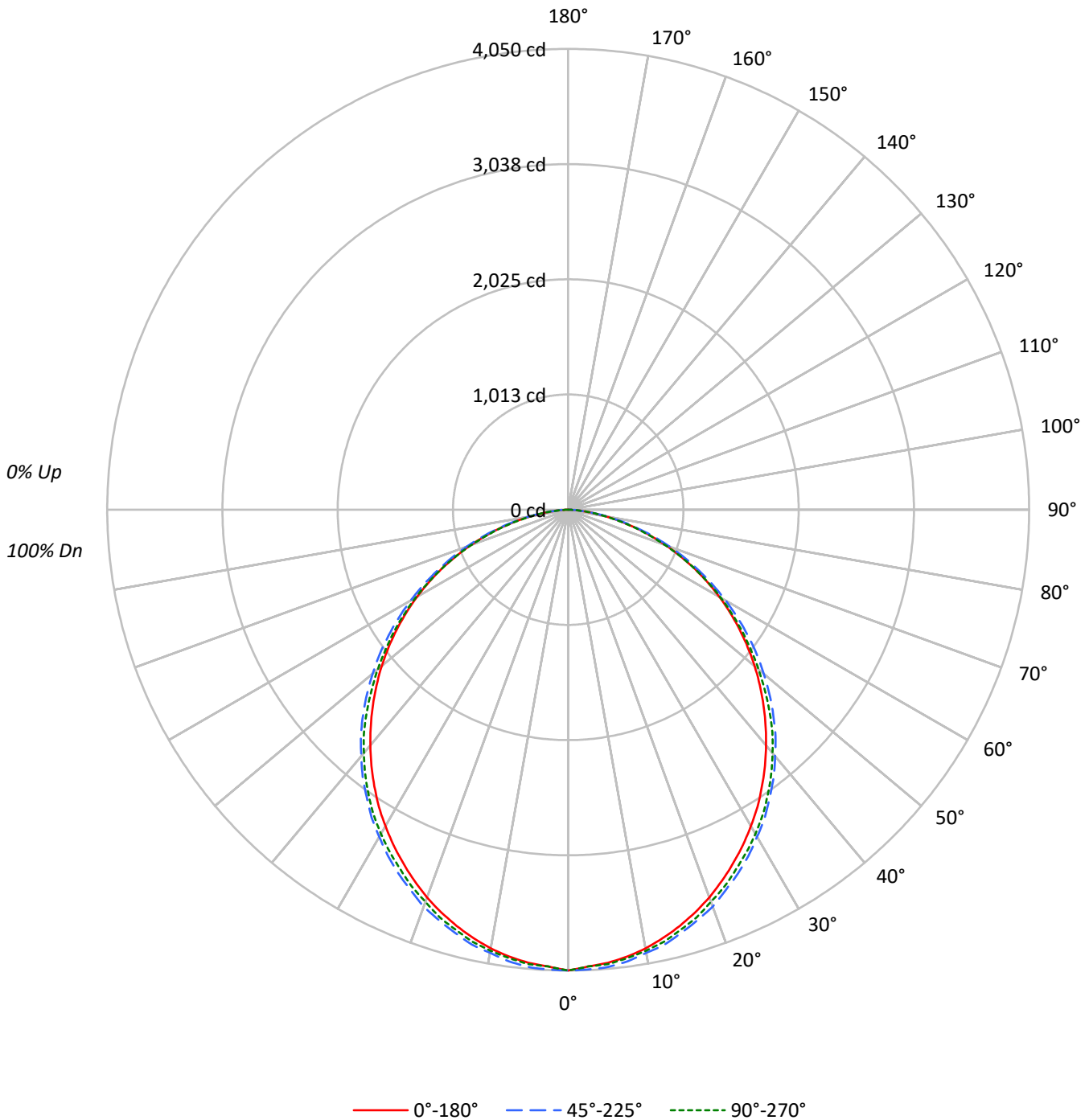
Lumens per Lamp: N/A  
Luminaire Lumens: 10647.5 lumens  
Efficiency: N/A  
Efficacy: 106.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 99.9  
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°	10898	10898	10898
5°	10797	10899	10832
10°	10699	10807	10755
15°	10551	10721	10646
20°	10385	10631	10503
25°	10182	10478	10357
30°	9977	10315	10220
35°	9752	10138	10044
40°	9498	9936	9810
45°	9232	9697	9514
50°	8954	9387	9141
55°	8629	9033	8756
60°	8262	8605	8339
65°	7786	8085	7792
70°	7165	7453	7085
75°	6309	6594	6212
80°	5126	5349	5067
85°	3569	3804	3714



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	381.4	3.6
10°-20°	1080.9	10.2
20°-30°	1612.1	15.1
30°-40°	1910.3	17.9
40°-50°	1933.0	18.2
50°-60°	1688.1	15.9
60°-70°	1233.6	11.6
70°-80°	656.4	6.2
80°-90°	151.7	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
0°-30°	3074.4	28.9
0°-40°	4984.7	46.8
0°-60°	8605.8	80.8
0°-90°	10647.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10647.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4050	4050	4050	4050	4050	
5°	3997	4005	4035	4044	4010	379
15°	3787	3812	3848	3871	3821	1068
25°	3429	3471	3529	3542	3488	1580
35°	2968	3015	3086	3108	3058	1856
45°	2426	2469	2548	2550	2500	1871
55°	1839	1876	1925	1898	1866	1644
65°	1223	1248	1270	1244	1224	1210
75°	607	621	634	611	598	645
85°	116	118	123	124	120	146
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4049.9	4049.9	4049.9	4049.9	4049.9
2.5°	4018.3	4031.4	4044.9	4050.8	4017.9
5°	3997.2	4004.8	4034.7	4044.0	4009.8
7.5°	3962.6	3974.0	4003.1	4007.3	3974.4
10°	3915.3	3935.6	3955.0	3976.1	3936.0
12.5°	3855.0	3882.4	3915.3	3919.1	3888.7
15°	3787.1	3812.4	3848.2	3871.4	3821.2
17.5°	3711.1	3735.6	3782.0	3786.2	3755.8
20°	3626.3	3656.7	3712.4	3722.1	3667.6
22.5°	3530.1	3571.0	3617.4	3626.7	3586.6
25°	3429.2	3471.4	3528.8	3541.9	3488.3
27.5°	3323.7	3364.3	3428.8	3438.1	3392.9
30°	3210.7	3248.6	3319.5	3335.1	3289.1
32.5°	3095.9	3133.9	3212.3	3225.4	3180.7
35°	2968.5	3014.9	3086.2	3107.7	3057.5
37.5°	2838.5	2883.6	2964.7	2984.1	2930.1
40°	2703.9	2748.6	2828.4	2844.4	2792.5
42.5°	2566.3	2611.1	2696.3	2698.8	2655.8
45°	2425.8	2468.9	2548.2	2550.3	2500.1
47.5°	2283.2	2326.7	2397.6	2389.5	2342.3
50°	2138.9	2180.2	2242.3	2226.2	2183.6
52.5°	1989.5	2029.6	2088.3	2062.1	2022.0
55°	1839.3	1876.4	1925.4	1897.5	1866.3
57.5°	1687.8	1725.4	1762.9	1734.7	1707.7
60°	1535.1	1568.0	1598.8	1570.1	1549.4
62.5°	1379.8	1408.1	1434.6	1407.2	1387.8
65°	1222.8	1247.7	1269.7	1244.3	1223.7
67.5°	1066.7	1087.8	1108.1	1081.9	1060.4
70°	910.6	928.7	947.3	920.3	900.5
72.5°	756.6	772.6	789.1	762.9	745.6
75°	606.8	620.7	634.2	611.0	597.5
77.5°	463.7	475.5	484.8	470.1	457.0
80°	330.8	339.7	345.2	339.3	327.0
82.5°	212.7	219.0	221.9	221.5	213.5
85°	115.6	117.7	123.2	124.5	120.3
87.5°	44.7	47.7	48.9	52.7	48.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)