

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: P489551

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5LO-20-120-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: P489551  
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-24-4-INS-A12125-LD4-5LO-20-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

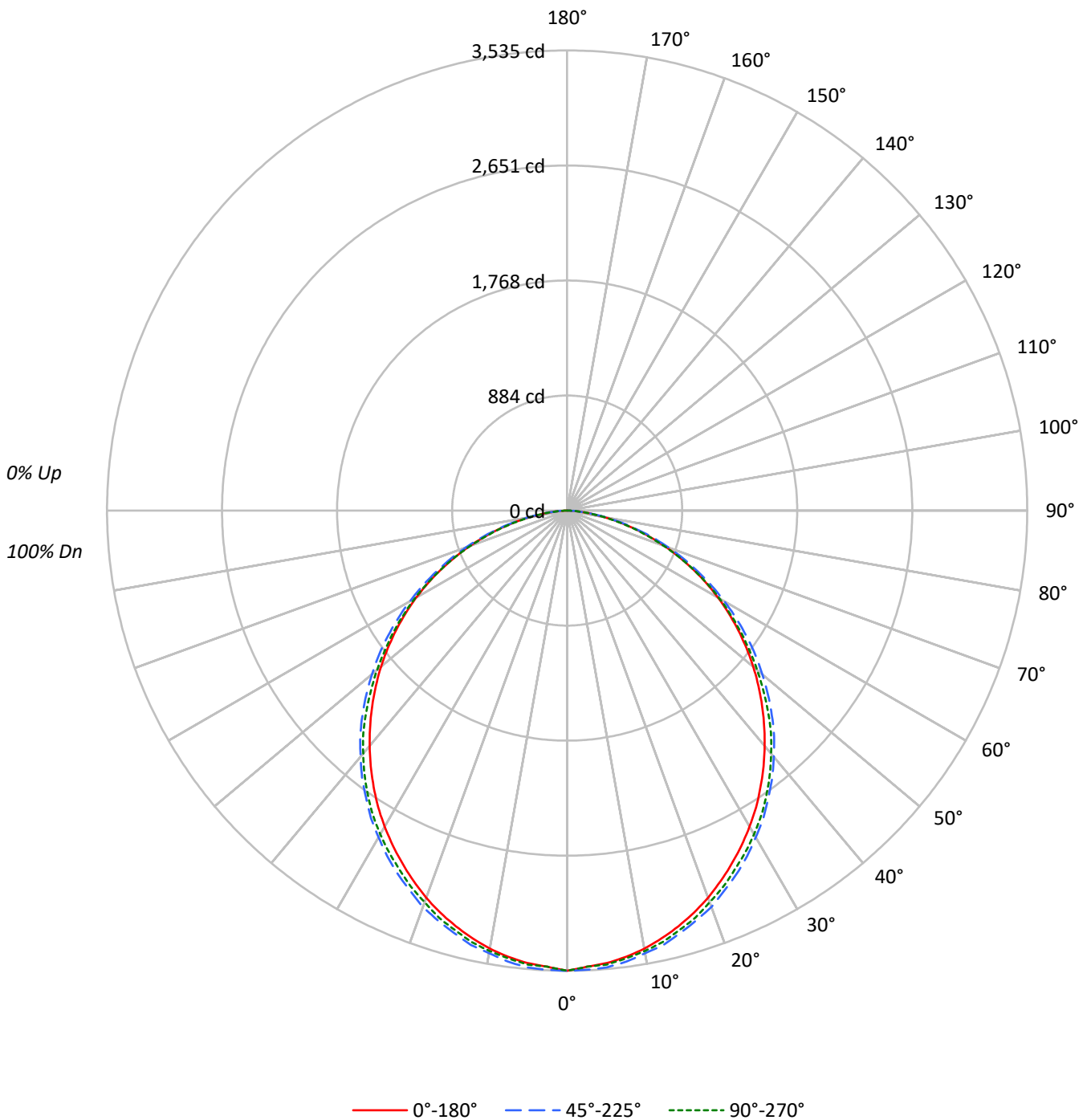
Lumens per Lamp: N/A  
Luminaire Lumens: 9294.2 lumens  
Efficiency: N/A  
Efficacy: 79.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 117  
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°	4757	4757	4757
5°	4712	4757	4727
10°	4669	4717	4694
15°	4605	4679	4646
20°	4532	4640	4584
25°	4444	4573	4520
30°	4354	4502	4461
35°	4256	4425	4384
40°	4145	4336	4281
45°	4029	4232	4153
50°	3908	4097	3990
55°	3766	3943	3822
60°	3606	3756	3640
65°	3398	3528	3401
70°	3127	3253	3092
75°	2754	2878	2711
80°	2238	2335	2212
85°	1558	1661	1621



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	332.9	3.6
10°-20°	943.5	10.2
20°-30°	1407.2	15.1
30°-40°	1667.5	17.9
40°-50°	1687.3	18.2
50°-60°	1473.6	15.9
60°-70°	1076.8	11.6
70°-80°	573.0	6.2
80°-90°	132.4	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°	2683.6	28.9
0°-40°	4351.1	46.8
0°-60°	7512.0	80.8
0°-90°	9294.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9294.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3535	3535	3535	3535	3535	
5°	3489	3496	3522	3530	3500	331
15°	3306	3328	3359	3379	3336	932
25°	2993	3030	3080	3092	3045	1379
35°	2591	2632	2694	2713	2669	1620
45°	2118	2155	2224	2226	2182	1634
55°	1606	1638	1681	1656	1629	1435
65°	1067	1089	1108	1086	1068	1056
75°	530	542	554	533	522	563
85°	101	103	108	109	105	128
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3535.2	3535.2	3535.2	3535.2	3535.2
2.5°	3507.6	3519.0	3530.8	3535.9	3507.2
5°	3489.1	3495.8	3521.9	3530.0	3500.2
7.5°	3458.9	3468.9	3494.3	3498.0	3469.3
10°	3417.7	3435.4	3452.3	3470.7	3435.7
12.5°	3365.0	3389.0	3417.7	3421.0	3394.5
15°	3305.7	3327.8	3359.1	3379.4	3335.6
17.5°	3239.4	3260.8	3301.3	3305.0	3278.5
20°	3165.4	3191.9	3240.5	3249.0	3201.5
22.5°	3081.4	3117.1	3157.6	3165.8	3130.8
25°	2993.4	3030.2	3080.3	3091.7	3044.9
27.5°	2901.3	2936.7	2993.0	3001.1	2961.7
30°	2802.6	2835.7	2897.6	2911.2	2871.1
32.5°	2702.4	2735.5	2804.1	2815.5	2776.4
35°	2591.2	2631.7	2693.9	2712.7	2668.9
37.5°	2477.7	2517.1	2587.9	2604.8	2557.6
40°	2360.2	2399.3	2468.9	2482.9	2437.6
42.5°	2240.2	2279.2	2353.6	2355.8	2318.2
45°	2117.5	2155.1	2224.3	2226.2	2182.3
47.5°	1993.0	2030.9	2092.8	2085.8	2044.6
50°	1867.0	1903.1	1957.3	1943.3	1906.1
52.5°	1736.7	1771.6	1822.8	1800.0	1765.0
55°	1605.5	1637.9	1680.7	1656.4	1629.1
57.5°	1473.3	1506.1	1538.9	1514.2	1490.6
60°	1340.0	1368.7	1395.6	1370.5	1352.5
62.5°	1204.4	1229.1	1252.3	1228.4	1211.4
65°	1067.4	1089.1	1108.3	1086.2	1068.1
67.5°	931.1	949.5	967.2	944.4	925.6
70°	794.8	810.7	826.9	803.3	786.0
72.5°	660.4	674.4	688.8	665.9	650.8
75°	529.7	541.8	553.6	533.3	521.5
77.5°	404.8	415.1	423.2	410.3	398.9
80°	288.8	296.5	301.3	296.1	285.5
82.5°	185.6	191.2	193.7	193.4	186.4
85°	100.9	102.8	107.6	108.7	105.0
87.5°	39.0	41.6	42.7	46.0	42.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)