

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: P489558

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5LO-40-120-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: P489558  
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-40-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

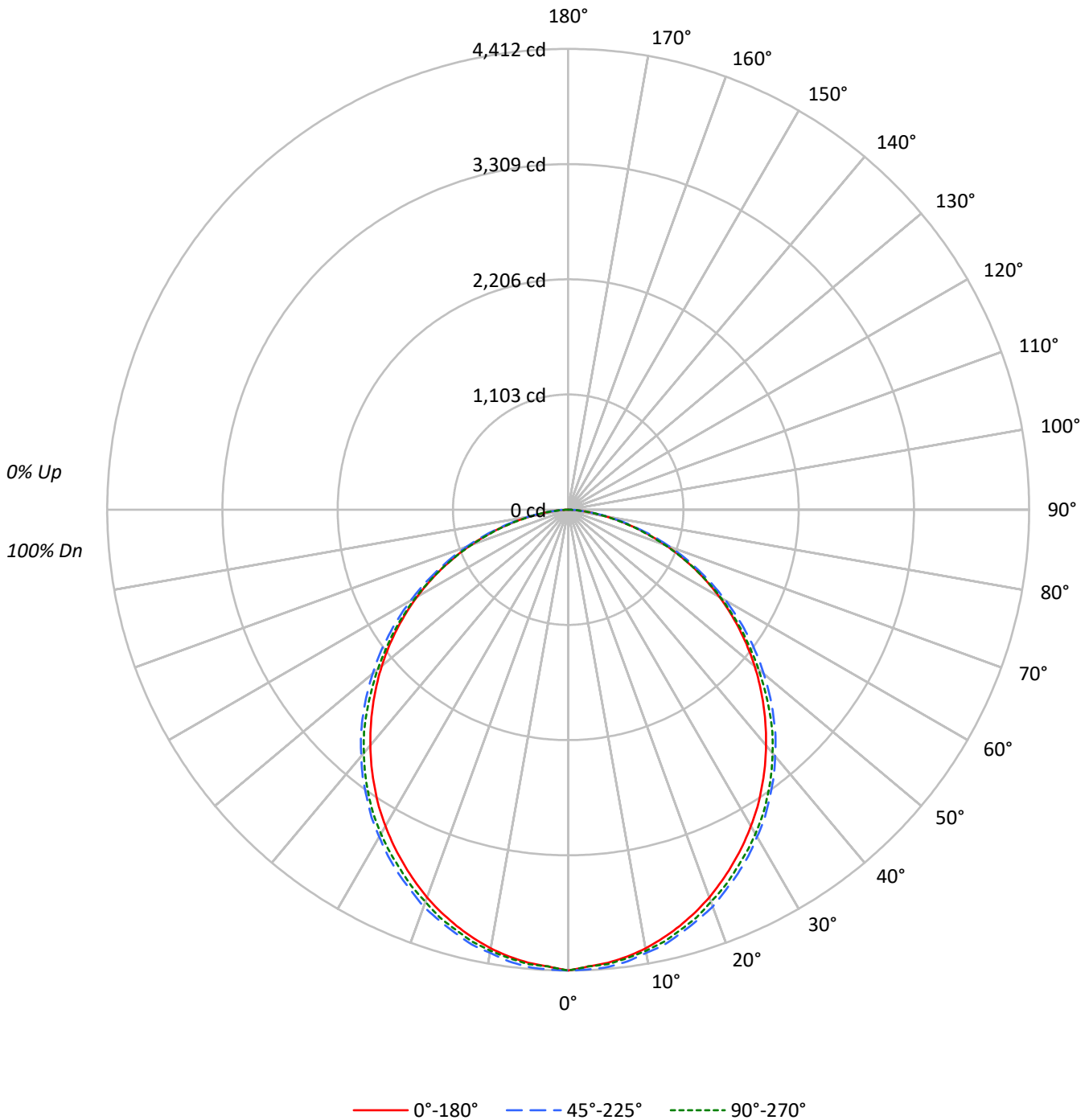
Lumens per Lamp: N/A  
Luminaire Lumens: 11599.0 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	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°	5936	5936	5936
5°	5881	5936	5900
10°	5827	5886	5858
15°	5747	5839	5798
20°	5656	5791	5721
25°	5546	5707	5641
30°	5434	5618	5567
35°	5311	5522	5471
40°	5174	5412	5343
45°	5028	5282	5182
50°	4877	5113	4979
55°	4700	4920	4769
60°	4500	4687	4542
65°	4241	4403	4244
70°	3902	4059	3859
75°	3436	3592	3384
80°	2793	2913	2760
85°	1944	2072	2022



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	415.5	3.6
10°-20°	1177.5	10.2
20°-30°	1756.1	15.1
30°-40°	2081.0	17.9
40°-50°	2105.7	18.2
50°-60°	1839.0	15.9
60°-70°	1343.9	11.6
70°-80°	715.1	6.2
80°-90°	165.3	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°	3349.1	28.9
0°-40°	5430.1	46.8
0°-60°	9374.8	80.8
0°-90°	11599.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11599.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4412	4412	4412	4412	4412	
5°	4354	4363	4395	4405	4368	413
15°	4126	4153	4192	4217	4163	1163
25°	3736	3782	3844	3858	3800	1721
35°	3234	3284	3362	3385	3331	2022
45°	2643	2690	2776	2778	2724	2039
55°	2004	2044	2097	2067	2033	1791
65°	1332	1359	1383	1356	1333	1318
75°	661	676	691	666	651	703
85°	126	128	134	136	131	159
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4411.8	4411.8	4411.8	4411.8	4411.8
2.5°	4377.4	4391.6	4406.3	4412.8	4376.9
5°	4354.4	4362.7	4395.3	4405.4	4368.2
7.5°	4316.7	4329.1	4360.8	4365.4	4329.6
10°	4265.2	4287.3	4308.4	4331.4	4287.7
12.5°	4199.5	4229.4	4265.2	4269.4	4236.3
15°	4125.5	4153.1	4192.1	4217.4	4162.7
17.5°	4042.7	4069.4	4120.0	4124.6	4091.5
20°	3950.3	3983.4	4044.1	4054.7	3995.4
22.5°	3845.5	3890.1	3940.7	3950.8	3907.1
25°	3735.7	3781.6	3844.2	3858.4	3800.0
27.5°	3620.8	3664.9	3735.2	3745.3	3696.2
30°	3497.6	3538.9	3616.2	3633.2	3583.1
32.5°	3372.5	3413.9	3499.4	3513.7	3464.9
35°	3233.7	3284.3	3362.0	3385.4	3330.7
37.5°	3092.2	3141.3	3229.6	3250.7	3191.9
40°	2945.5	2994.2	3081.1	3098.6	3042.1
42.5°	2795.7	2844.4	2937.2	2940.0	2893.1
45°	2642.6	2689.5	2775.9	2778.2	2723.5
47.5°	2487.2	2534.6	2611.8	2603.1	2551.6
50°	2330.0	2375.1	2442.6	2425.2	2378.8
52.5°	2167.3	2211.0	2274.9	2246.4	2202.7
55°	2003.7	2044.1	2097.4	2067.1	2033.1
57.5°	1838.7	1879.6	1920.5	1889.7	1860.3
60°	1672.3	1708.1	1741.7	1710.4	1687.9
62.5°	1503.1	1533.9	1562.9	1533.0	1511.8
65°	1332.1	1359.2	1383.1	1355.5	1333.0
67.5°	1162.0	1185.0	1207.1	1178.6	1155.1
70°	992.0	1011.7	1031.9	1002.5	980.9
72.5°	824.2	841.6	859.6	831.1	812.2
75°	661.0	676.2	690.9	665.6	650.9
77.5°	505.2	518.0	528.2	512.1	497.8
80°	360.4	370.0	376.0	369.6	356.2
82.5°	231.7	238.6	241.8	241.3	232.6
85°	125.9	128.2	134.2	135.6	131.0
87.5°	48.7	51.9	53.3	57.5	52.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)