

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: P489561

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5LO-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: P489561  
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-50-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

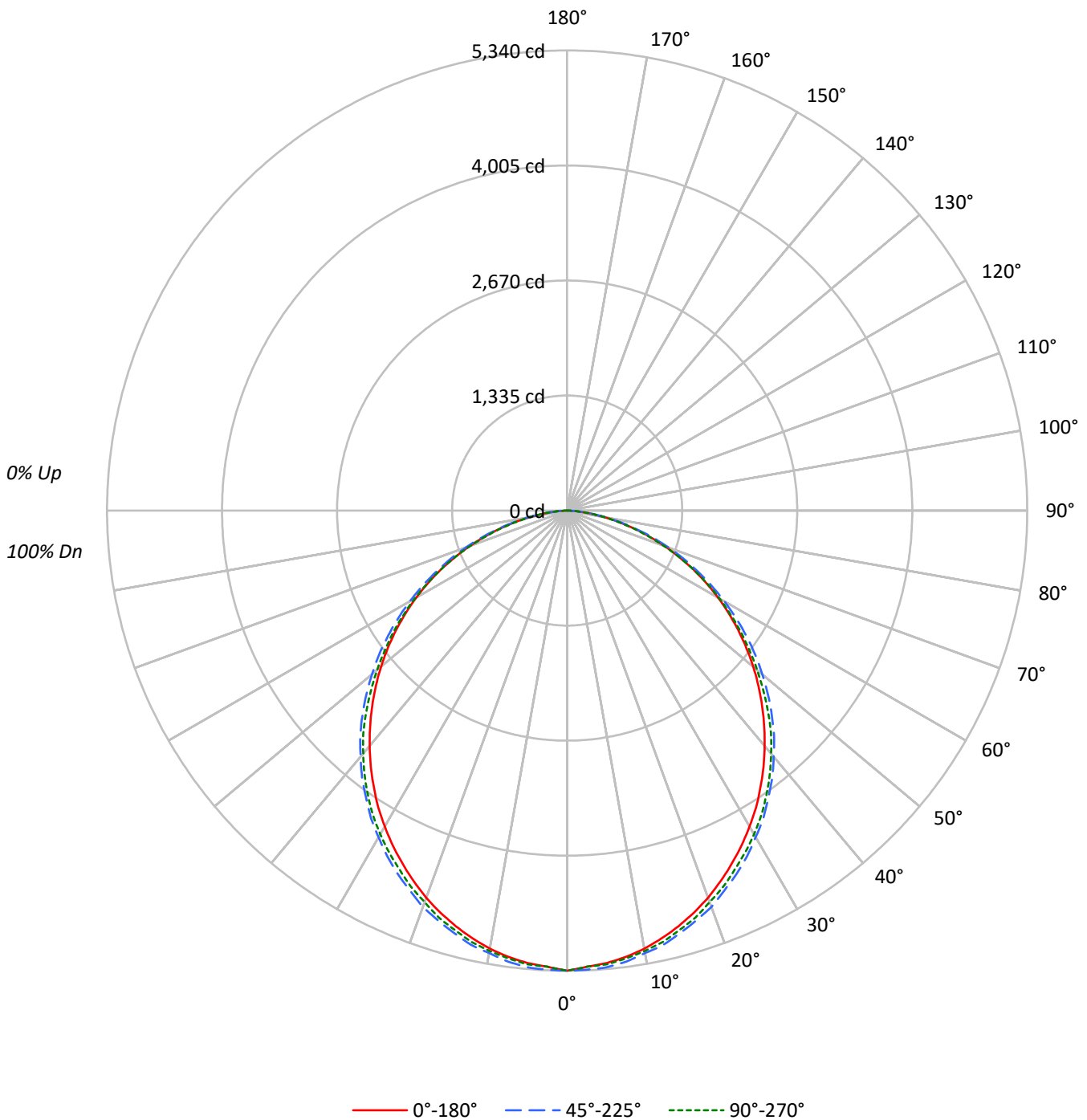
Lumens per Lamp: N/A  
Luminaire Lumens: 14038.8 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	7185	7185	7185
5°	7118	7185	7141
10°	7053	7125	7090
15°	6955	7068	7018
20°	6846	7009	6924
25°	6713	6907	6828
30°	6577	6800	6738
35°	6429	6684	6622
40°	6262	6550	6467
45°	6086	6393	6272
50°	5903	6189	6027
55°	5689	5955	5772
60°	5447	5673	5497
65°	5133	5330	5137
70°	4723	4914	4671
75°	4159	4347	4095
80°	3380	3526	3341
85°	2353	2509	2448



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	502.9	3.6
10°-20°	1425.1	10.2
20°-30°	2125.5	15.1
30°-40°	2518.8	17.9
40°-50°	2548.6	18.2
50°-60°	2225.8	15.9
60°-70°	1626.5	11.6
70°-80°	865.5	6.2
80°-90°	200.0	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°	4053.6	28.9
0°-40°	6572.3	46.8
0°-60°	11346.8	80.8
0°-90°	14038.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14038.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5340	5340	5340	5340	5340	
5°	5270	5280	5320	5332	5287	500
15°	4993	5027	5074	5104	5038	1408
25°	4522	4577	4653	4670	4599	2083
35°	3914	3975	4069	4098	4031	2448
45°	3198	3255	3360	3363	3296	2467
55°	2425	2474	2539	2502	2461	2168
65°	1612	1645	1674	1641	1613	1595
75°	800	818	836	806	788	851
85°	152	155	162	164	159	193
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5339.9	5339.9	5339.9	5339.9	5339.9
2.5°	5298.1	5315.4	5333.2	5341.0	5297.6
5°	5270.3	5280.3	5319.8	5332.1	5287.0
7.5°	5224.7	5239.7	5278.1	5283.7	5240.3
10°	5162.4	5189.1	5214.7	5242.5	5189.6
12.5°	5082.8	5119.0	5162.4	5167.4	5127.3
15°	4993.3	5026.6	5073.9	5104.5	5038.3
17.5°	4893.1	4925.4	4986.6	4992.1	4952.1
20°	4781.3	4821.3	4894.8	4907.6	4835.8
22.5°	4654.4	4708.4	4769.6	4781.8	4729.0
25°	4521.5	4577.1	4652.8	4670.0	4599.4
27.5°	4382.4	4435.8	4520.9	4533.2	4473.6
30°	4233.3	4283.3	4376.8	4397.4	4336.8
32.5°	4081.9	4132.0	4235.5	4252.7	4193.8
35°	3913.9	3975.1	4069.2	4097.5	4031.3
37.5°	3742.6	3802.1	3908.9	3934.5	3863.3
40°	3565.1	3624.1	3729.2	3750.4	3681.9
42.5°	3383.7	3442.7	3555.1	3558.4	3501.7
45°	3198.5	3255.2	3359.8	3362.6	3296.4
47.5°	3010.4	3067.7	3161.2	3150.6	3088.3
50°	2820.1	2874.7	2956.5	2935.3	2879.1
52.5°	2623.2	2676.0	2753.4	2718.9	2666.0
55°	2425.1	2474.1	2538.6	2501.9	2460.7
57.5°	2225.4	2274.9	2324.4	2287.2	2251.6
60°	2024.0	2067.4	2108.0	2070.2	2042.9
62.5°	1819.3	1856.5	1891.6	1855.4	1829.8
65°	1612.3	1645.1	1674.1	1640.7	1613.4
67.5°	1406.5	1434.3	1461.0	1426.5	1398.1
70°	1200.6	1224.5	1249.0	1213.4	1187.3
72.5°	997.5	1018.7	1040.4	1005.9	983.1
75°	800.0	818.4	836.2	805.6	787.8
77.5°	611.4	627.0	639.2	619.8	602.5
80°	436.2	447.9	455.1	447.3	431.2
82.5°	280.4	288.7	292.6	292.1	281.5
85°	152.4	155.2	162.5	164.1	158.6
87.5°	59.0	62.9	64.5	69.5	64.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)