

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: P489539

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5HI-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: P489539  
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-LD4-5HI-20-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

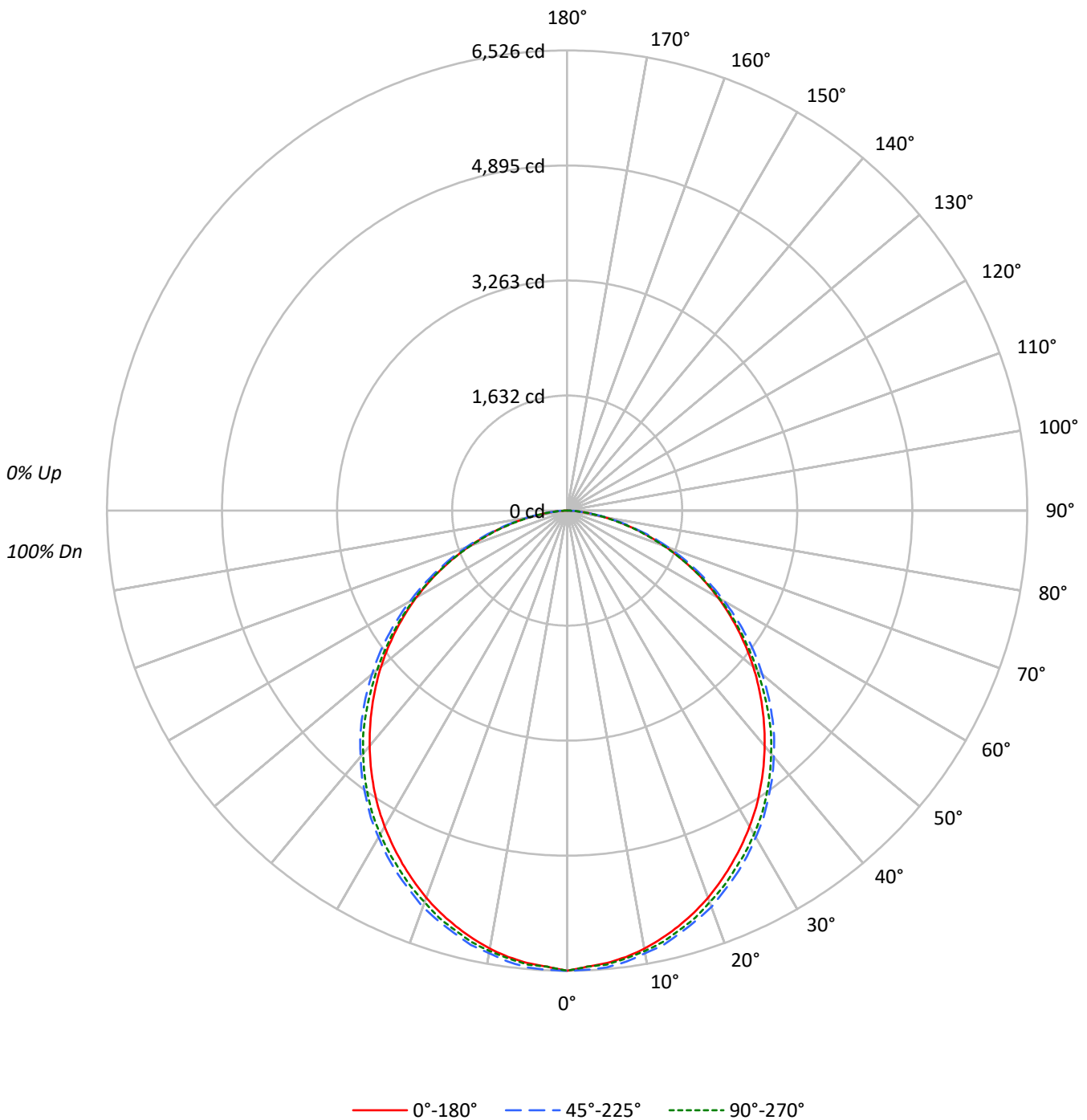
Lumens per Lamp: N/A  
Luminaire Lumens: 17158.4 lumens  
Efficiency: N/A  
Efficacy: 79.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 216  
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°	8781	8781	8781
5°	8700	8782	8727
10°	8620	8708	8666
15°	8501	8638	8578
20°	8367	8566	8463
25°	8204	8442	8345
30°	8039	8311	8235
35°	7857	8169	8093
40°	7653	8006	7904
45°	7438	7814	7666
50°	7215	7564	7366
55°	6953	7278	7055
60°	6657	6933	6719
65°	6274	6514	6278
70°	5773	6006	5709
75°	5083	5313	5006
80°	4131	4310	4083
85°	2876	3066	2992



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	614.7	3.6
10°-20°	1741.8	10.2
20°-30°	2597.8	15.1
30°-40°	3078.5	17.9
40°-50°	3114.9	18.2
50°-60°	2720.4	15.9
60°-70°	1988.0	11.6
70°-80°	1057.8	6.2
80°-90°	244.5	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
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0°-30°	4954.3	28.9
0°-40°	8032.8	46.8
0°-60°	13868.2	80.8
0°-90°	17158.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17158.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6526	6526	6526	6526	6526	
5°	6441	6454	6502	6517	6462	611
15°	6103	6144	6201	6239	6158	1720
25°	5526	5594	5687	5708	5621	2546
35°	4784	4858	4973	5008	4927	2992
45°	3909	3979	4106	4110	4029	3016
55°	2964	3024	3103	3058	3008	2650
65°	1971	2011	2046	2005	1972	1950
75°	978	1000	1022	985	963	1040
85°	186	190	199	201	194	236
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6526.4	6526.4	6526.4	6526.4	6526.4
2.5°	6475.4	6496.5	6518.3	6527.8	6474.8
5°	6441.4	6453.7	6502.0	6516.9	6461.8
7.5°	6385.7	6404.0	6451.0	6457.8	6404.7
10°	6309.5	6342.2	6373.4	6407.4	6342.9
12.5°	6212.3	6256.5	6309.5	6315.7	6266.7
15°	6102.8	6143.6	6201.4	6238.8	6157.9
17.5°	5980.4	6019.9	6094.7	6101.5	6052.5
20°	5843.7	5892.7	5982.5	5998.1	5910.4
22.5°	5688.7	5754.7	5829.5	5844.4	5779.8
25°	5526.2	5594.2	5686.7	5707.7	5621.4
27.5°	5356.2	5421.5	5525.5	5540.5	5467.7
30°	5174.0	5235.2	5349.4	5374.6	5300.4
32.5°	4989.0	5050.2	5176.7	5197.8	5125.7
35°	4783.7	4858.5	4973.4	5008.1	4927.1
37.5°	4574.2	4647.0	4777.5	4808.8	4721.8
40°	4357.3	4429.4	4557.9	4583.7	4500.1
42.5°	4135.6	4207.7	4345.1	4349.1	4279.8
45°	3909.2	3978.6	4106.4	4109.8	4028.9
47.5°	3679.4	3749.4	3863.6	3850.7	3774.6
50°	3446.8	3513.5	3613.4	3587.6	3518.9
52.5°	3206.1	3270.7	3365.2	3323.1	3258.5
55°	2964.0	3023.9	3102.7	3057.9	3007.6
57.5°	2719.9	2780.4	2841.0	2795.4	2751.9
60°	2473.8	2526.8	2576.4	2530.2	2496.9
62.5°	2223.5	2269.1	2311.9	2267.7	2236.5
65°	1970.6	2010.7	2046.1	2005.3	1971.9
67.5°	1719.0	1753.0	1785.6	1743.5	1708.8
70°	1467.4	1496.6	1526.6	1483.0	1451.1
72.5°	1219.2	1245.0	1271.6	1229.4	1201.5
75°	977.8	1000.3	1022.0	984.6	962.9
77.5°	747.3	766.3	781.3	757.5	736.4
80°	533.1	547.4	556.2	546.7	527.0
82.5°	342.7	352.9	357.7	357.0	344.1
85°	186.3	189.7	198.6	200.6	193.8
87.5°	72.1	76.8	78.9	85.0	78.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)