

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: P489503

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-4HI-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: P489503  
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-LD4-4HI-20-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

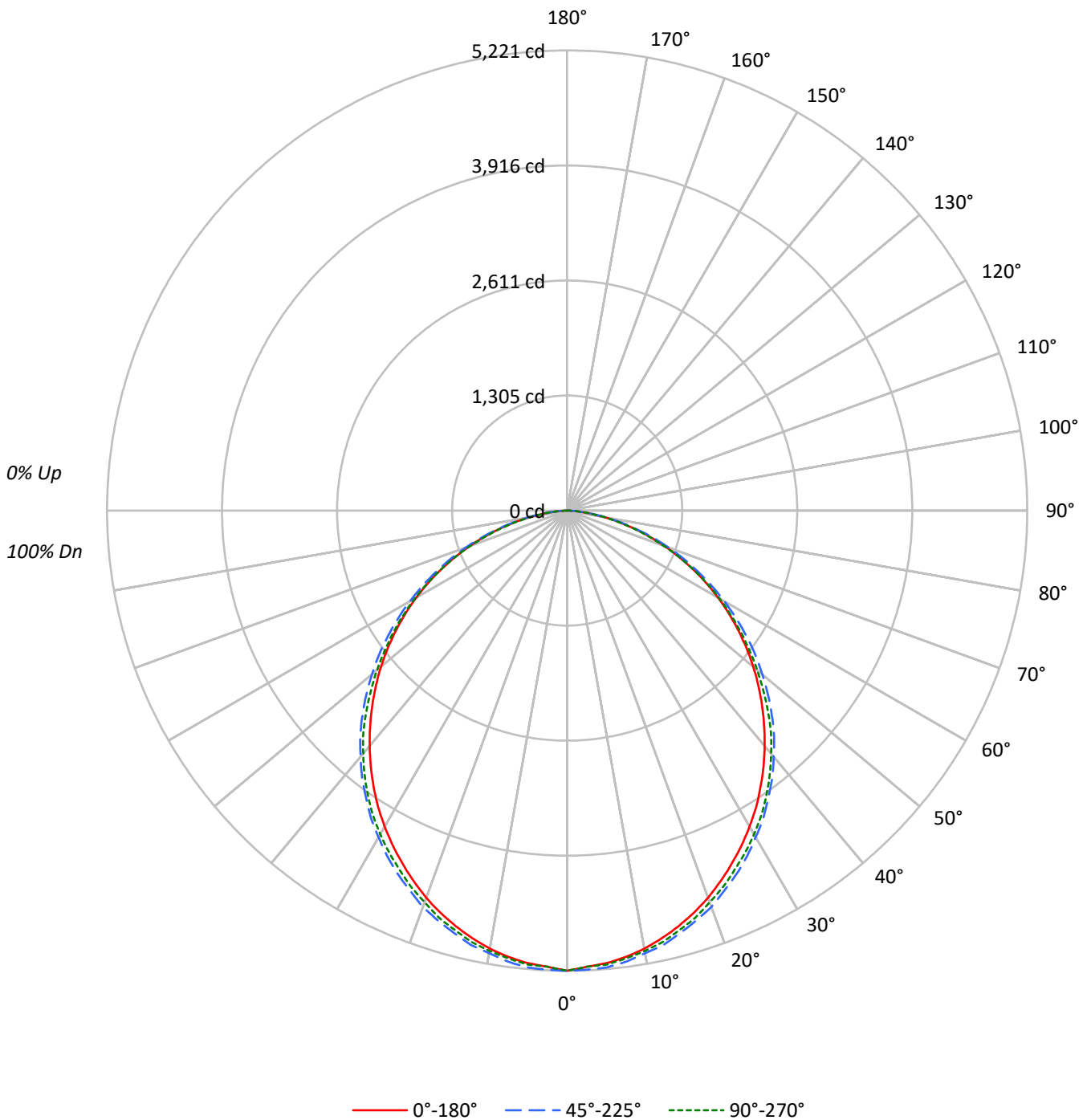
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13726.8 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): 172.8  
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

TEST NUMBER: P489503

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-4HI-20-120-EDD

### 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°	7025	7025	7025
5°	6960	7025	6982
10°	6896	6966	6933
15°	6801	6911	6862
20°	6694	6853	6770
25°	6563	6754	6676
30°	6431	6649	6588
35°	6286	6535	6474
40°	6123	6404	6323
45°	5951	6251	6133
50°	5772	6051	5893
55°	5562	5823	5644
60°	5325	5547	5375
65°	5019	5211	5023
70°	4618	4805	4567
75°	4067	4250	4004
80°	3305	3448	3267
85°	2302	2452	2393



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	491.7	3.6
10°-20°	1393.5	10.2
20°-30°	2078.3	15.1
30°-40°	2462.8	17.9
40°-50°	2492.0	18.2
50°-60°	2176.4	15.9
60°-70°	1590.4	11.6
70°-80°	846.2	6.2
80°-90°	195.6	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°	3963.5	28.9
0°-40°	6426.3	46.8
0°-60°	11094.6	80.8
0°-90°	13726.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13726.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5221	5221	5221	5221	5221	
5°	5153	5163	5202	5214	5170	489
15°	4882	4915	4961	4991	4926	1376
25°	4421	4475	4549	4566	4497	2037
35°	3827	3887	3979	4006	3942	2393
45°	3127	3183	3285	3288	3223	2413
55°	2371	2419	2482	2446	2406	2120
65°	1576	1609	1637	1604	1578	1560
75°	782	800	818	788	770	832
85°	149	152	159	160	155	189
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5221.2	5221.2	5221.2	5221.2	5221.2
2.5°	5180.4	5197.3	5214.7	5222.3	5179.8
5°	5153.2	5163.0	5201.6	5213.6	5169.5
7.5°	5108.6	5123.3	5160.8	5166.2	5123.8
10°	5047.7	5073.8	5098.8	5126.0	5074.3
12.5°	4969.9	5005.2	5047.7	5052.6	5013.4
15°	4882.3	4914.9	4961.2	4991.1	4926.3
17.5°	4784.4	4815.9	4875.8	4881.2	4842.0
20°	4675.0	4714.2	4786.0	4798.5	4728.3
22.5°	4551.0	4603.8	4663.6	4675.6	4623.9
25°	4421.0	4475.4	4549.4	4566.2	4497.1
27.5°	4285.0	4337.2	4420.4	4432.4	4374.2
30°	4139.2	4188.2	4279.5	4299.7	4240.4
32.5°	3991.2	4040.2	4141.4	4158.2	4100.6
35°	3826.9	3886.8	3978.7	4006.5	3941.7
37.5°	3659.4	3717.6	3822.1	3847.1	3777.4
40°	3485.9	3543.5	3646.3	3667.0	3600.1
42.5°	3308.5	3366.2	3476.1	3479.3	3423.9
45°	3127.4	3182.9	3285.1	3287.9	3223.1
47.5°	2943.5	2999.5	3090.9	3080.6	3019.7
50°	2757.5	2810.8	2890.7	2870.1	2815.1
52.5°	2564.9	2616.6	2692.2	2658.5	2606.8
55°	2371.2	2419.1	2482.2	2446.3	2406.1
57.5°	2175.9	2224.4	2272.8	2236.3	2201.5
60°	1979.0	2021.5	2061.2	2024.2	1997.5
62.5°	1778.8	1815.3	1849.6	1814.2	1789.2
65°	1576.5	1608.6	1636.9	1604.2	1577.6
67.5°	1375.2	1402.4	1428.5	1394.8	1367.0
70°	1173.9	1197.3	1221.3	1186.4	1160.9
72.5°	975.4	996.0	1017.3	983.5	961.2
75°	782.3	800.2	817.6	787.7	770.3
77.5°	597.8	613.1	625.0	606.0	589.1
80°	426.5	437.9	445.0	437.4	421.6
82.5°	274.2	282.3	286.1	285.6	275.3
85°	149.1	151.8	158.8	160.5	155.0
87.5°	57.7	61.5	63.1	68.0	62.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)