

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: P489532

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-4STD-35-120-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: P489532  
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-LD4-4STD-35-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

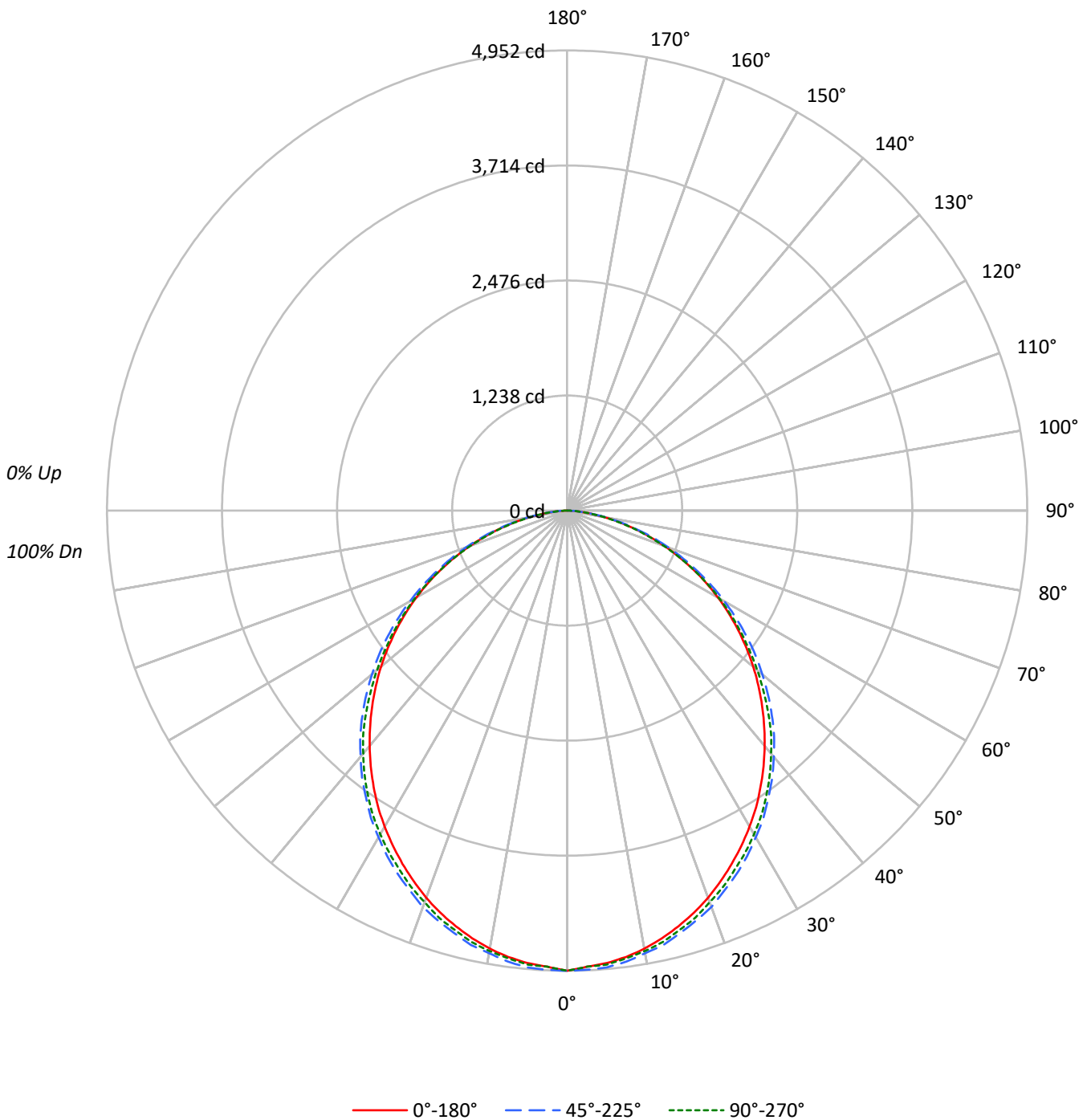
Lumens per Lamp: N/A  
Luminaire Lumens: 13020.1 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 133.2  
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: P489532

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-4STD-35-120-EDD-90

### Luminous Intensity Polar Plot





TEST NUMBER: P489532

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-4STD-35-120-EDD-90

**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°	6663	6663	6663
5°	6602	6664	6623
10°	6541	6608	6576
15°	6451	6555	6509
20°	6349	6500	6422
25°	6225	6406	6333
30°	6100	6307	6249
35°	5962	6199	6141
40°	5807	6075	5998
45°	5644	5929	5817
50°	5475	5739	5589
55°	5276	5523	5354
60°	5051	5261	5099
65°	4761	4943	4764
70°	4380	4557	4332
75°	3857	4031	3798
80°	3134	3271	3099
85°	2183	2326	2271



TEST NUMBER: P489532

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-4STD-35-120-EDD-90

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	466.4	3.6
10°-20°	1321.7	10.2
20°-30°	1971.3	15.1
30°-40°	2336.0	17.9
40°-50°	2363.7	18.2
50°-60°	2064.3	15.9
60°-70°	1508.5	11.6
70°-80°	802.7	6.2
80°-90°	185.5	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
0°-30°	3759.4	28.9
0°-40°	6095.4	46.8
0°-60°	10523.4	80.8
0°-90°	13020.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13020.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4952	4952	4952	4952	4952	
5°	4888	4897	4934	4945	4903	463
15°	4631	4662	4706	4734	4673	1306
25°	4193	4245	4315	4331	4266	1932
35°	3630	3687	3774	3800	3739	2270
45°	2966	3019	3116	3119	3057	2288
55°	2249	2295	2354	2320	2282	2011
65°	1495	1526	1553	1522	1496	1480
75°	742	759	776	747	731	789
85°	141	144	151	152	147	179
90°	0	0	0	0	0	



TEST NUMBER: P489532

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-4STD-35-120-EDD-90

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4952.4	4952.4	4952.4	4952.4	4952.4
2.5°	4913.7	4929.7	4946.2	4953.4	4913.2
5°	4887.9	4897.2	4933.8	4945.2	4903.4
7.5°	4845.6	4859.5	4895.1	4900.3	4860.0
10°	4787.8	4812.6	4836.3	4862.1	4813.1
12.5°	4714.0	4747.5	4787.8	4792.4	4755.3
15°	4630.9	4661.9	4705.7	4734.1	4672.7
17.5°	4538.1	4568.0	4624.7	4629.9	4592.7
20°	4434.3	4471.5	4539.6	4551.5	4484.9
22.5°	4316.7	4366.7	4423.5	4434.9	4385.8
25°	4193.4	4245.0	4315.1	4331.1	4265.6
27.5°	4064.4	4113.9	4192.9	4204.2	4149.0
30°	3926.1	3972.5	4059.2	4078.3	4022.1
32.5°	3785.8	3832.2	3928.2	3944.2	3889.5
35°	3629.9	3686.7	3773.9	3800.2	3738.8
37.5°	3471.0	3526.2	3625.3	3649.0	3583.0
40°	3306.4	3361.1	3458.6	3478.2	3414.8
42.5°	3138.2	3192.9	3297.1	3300.2	3247.6
45°	2966.4	3019.0	3116.0	3118.6	3057.2
47.5°	2792.0	2845.1	2931.8	2922.0	2864.2
50°	2615.5	2666.1	2741.9	2722.3	2670.2
52.5°	2432.8	2481.9	2553.6	2521.6	2472.6
55°	2249.2	2294.6	2354.4	2320.4	2282.2
57.5°	2063.9	2109.8	2155.8	2121.2	2088.2
60°	1877.1	1917.4	1955.1	1920.0	1894.7
62.5°	1687.3	1721.8	1754.3	1720.8	1697.1
65°	1495.3	1525.8	1552.6	1521.6	1496.3
67.5°	1304.4	1330.2	1355.0	1323.0	1296.7
70°	1113.5	1135.7	1158.4	1125.4	1101.1
72.5°	925.2	944.8	964.9	932.9	911.7
75°	742.0	759.0	775.5	747.1	730.6
77.5°	567.1	581.5	592.9	574.8	558.8
80°	404.5	415.4	422.1	414.8	399.9
82.5°	260.1	267.8	271.4	270.9	261.1
85°	141.4	144.0	150.7	152.2	147.1
87.5°	54.7	58.3	59.9	64.5	59.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)