

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: P489540

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5HI-27-120-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: P489540  
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-27-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

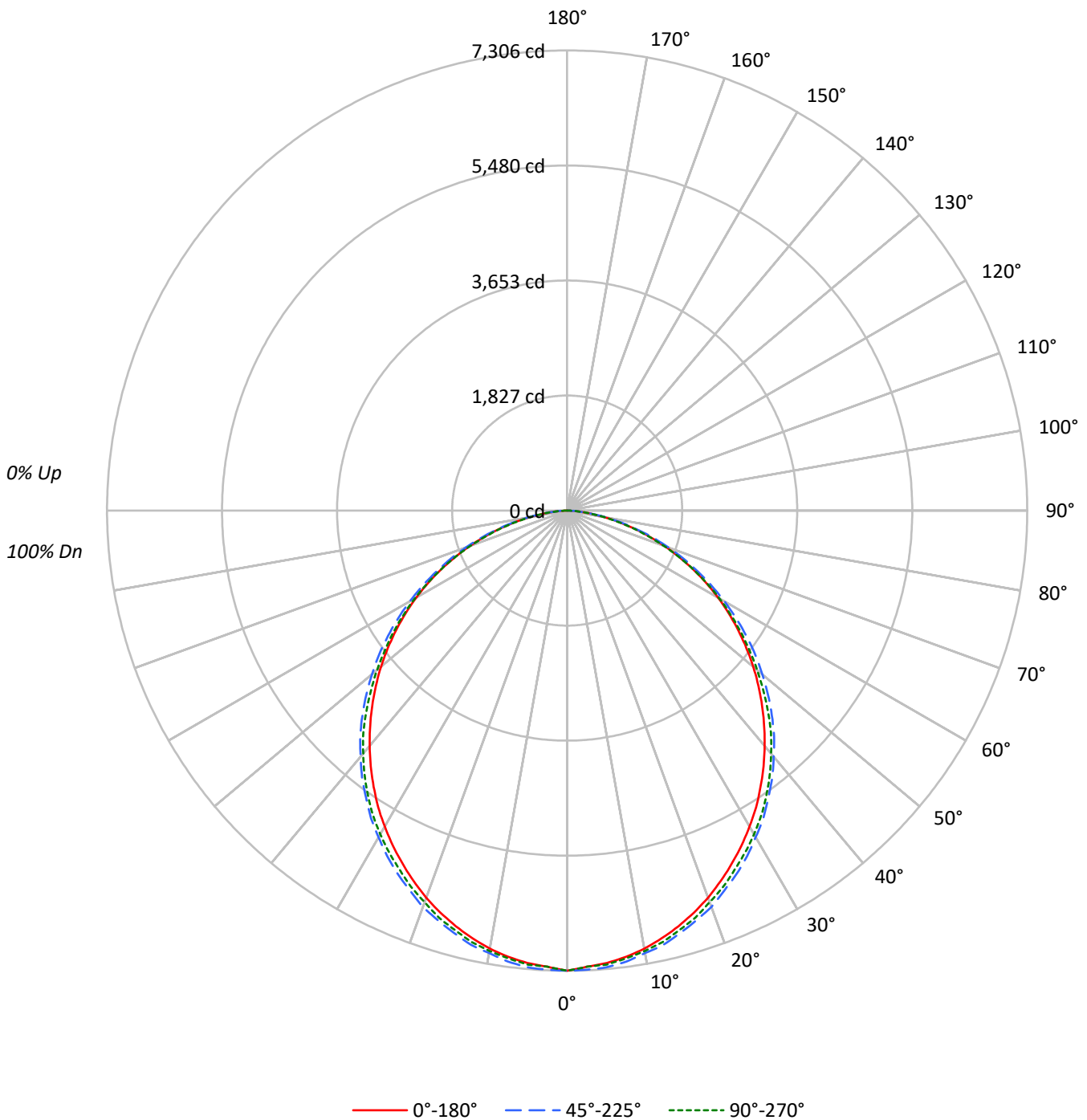
Lumens per Lamp: N/A  
Luminaire Lumens: 19207.9 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	9830	9830	9830
5°	9739	9831	9770
10°	9650	9748	9701
15°	9516	9670	9602
20°	9367	9589	9474
25°	9184	9451	9342
30°	8999	9304	9219
35°	8796	9145	9060
40°	8567	8962	8848
45°	8327	8747	8582
50°	8077	8467	8246
55°	7784	8148	7898
60°	7452	7761	7522
65°	7023	7292	7028
70°	6462	6723	6390
75°	5690	5948	5604
80°	4624	4825	4571
85°	3220	3432	3348



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	688.1	3.6
10°-20°	1949.9	10.2
20°-30°	2908.1	15.1
30°-40°	3446.2	17.9
40°-50°	3487.0	18.2
50°-60°	3045.4	15.9
60°-70°	2225.4	11.6
70°-80°	1184.1	6.2
80°-90°	273.7	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°	5546.1	28.9
0°-40°	8992.3	46.8
0°-60°	15524.7	80.8
0°-90°	19207.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19207.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7306	7306	7306	7306	7306	
5°	7211	7225	7279	7295	7234	684
15°	6832	6877	6942	6984	6893	1926
25°	6186	6262	6366	6390	6293	2850
35°	5355	5439	5567	5606	5516	3349
45°	4376	4454	4597	4601	4510	3376
55°	3318	3385	3473	3423	3367	2966
65°	2206	2251	2290	2245	2208	2183
75°	1095	1120	1144	1102	1078	1164
85°	209	212	222	225	217	264
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7306.0	7306.0	7306.0	7306.0	7306.0
2.5°	7248.9	7272.5	7296.9	7307.5	7248.2
5°	7210.9	7224.6	7278.6	7295.3	7233.7
7.5°	7148.4	7169.0	7221.5	7229.1	7169.7
10°	7063.2	7099.7	7134.7	7172.8	7100.5
12.5°	6954.3	7003.8	7063.2	7070.0	7015.2
15°	6831.8	6877.4	6942.1	6984.0	6893.4
17.5°	6694.8	6738.9	6822.6	6830.3	6775.4
20°	6541.8	6596.6	6697.0	6714.5	6616.4
22.5°	6368.2	6442.0	6525.8	6542.5	6470.2
25°	6186.3	6262.4	6365.9	6389.5	6292.8
27.5°	5996.0	6069.1	6185.5	6202.3	6120.8
30°	5792.0	5860.5	5988.4	6016.5	5933.6
32.5°	5584.9	5653.4	5795.0	5818.6	5737.9
35°	5355.0	5438.8	5567.4	5606.2	5515.7
37.5°	5120.6	5202.0	5348.2	5383.2	5285.8
40°	4877.8	4958.5	5102.3	5131.3	5037.6
42.5°	4629.6	4710.3	4864.1	4868.6	4791.0
45°	4376.1	4453.8	4596.9	4600.7	4510.1
47.5°	4118.9	4197.3	4325.1	4310.7	4225.4
50°	3858.5	3933.1	4045.0	4016.1	3939.2
52.5°	3589.1	3661.4	3767.2	3720.0	3647.7
55°	3318.1	3385.1	3473.4	3423.1	3366.8
57.5°	3044.8	3112.5	3180.3	3129.3	3080.6
60°	2769.2	2828.6	2884.2	2832.4	2795.1
62.5°	2489.1	2540.1	2588.1	2538.6	2503.6
65°	2206.0	2250.9	2290.5	2244.8	2207.5
67.5°	1924.3	1962.4	1998.9	1951.7	1912.9
70°	1642.7	1675.4	1708.9	1660.2	1624.4
72.5°	1364.8	1393.8	1423.4	1376.3	1345.0
75°	1094.6	1119.7	1144.1	1102.2	1077.9
77.5°	836.6	857.9	874.6	848.0	824.4
80°	596.8	612.8	622.7	612.0	589.9
82.5°	383.6	395.1	400.4	399.6	385.2
85°	208.6	212.4	222.3	224.6	216.9
87.5°	80.7	86.0	88.3	95.2	87.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)