

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: P489905

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-5HI-35-120-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: P489905  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)  
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-P12125-LD4-5HI-35-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

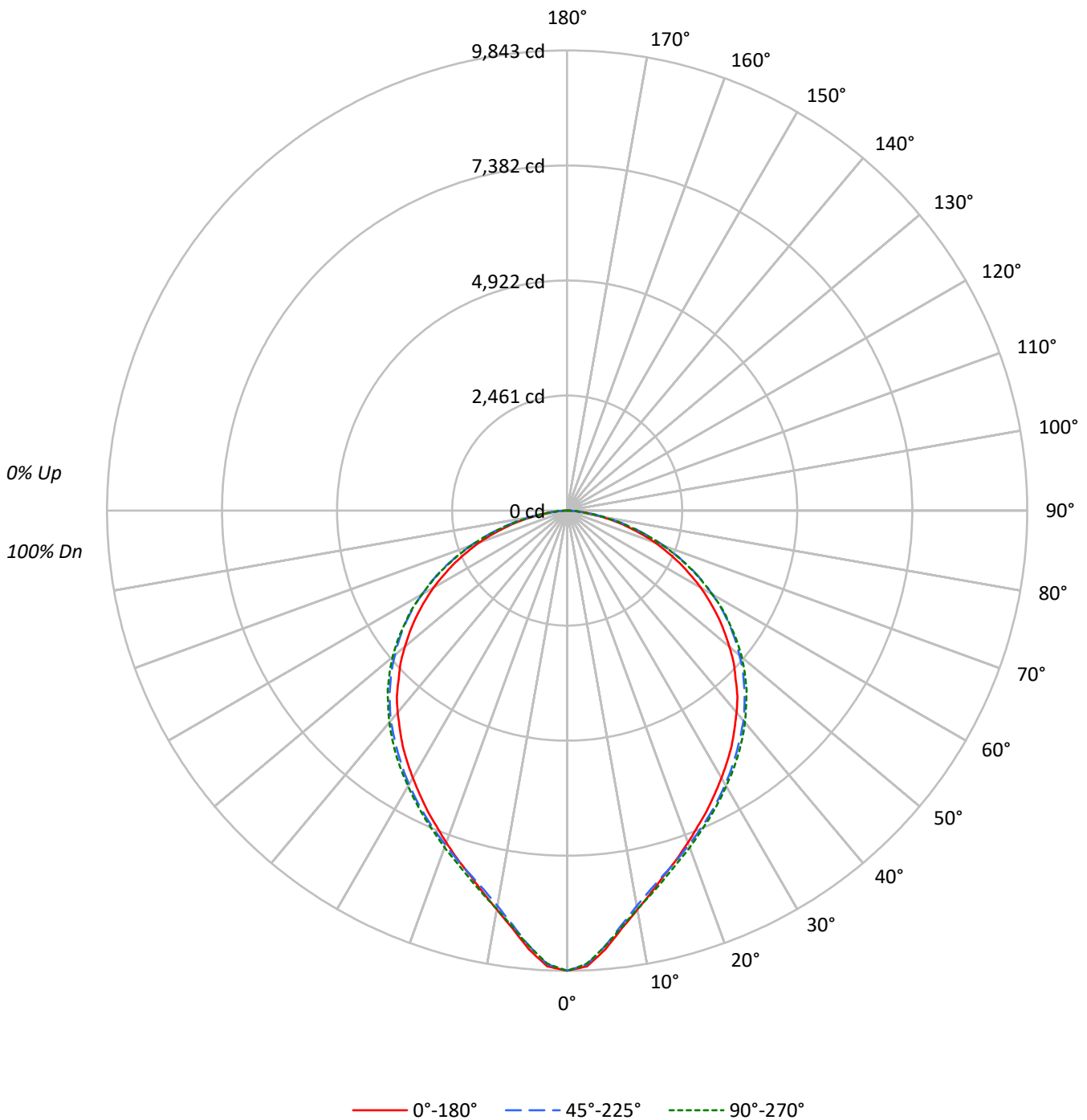
Lumens per Lamp: N/A  
Luminaire Lumens: 22862.3 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	13243	13243	13243
5°	12716	12626	12626
10°	11834	11727	11818
15°	11230	11209	11319
20°	10818	10895	10980
25°	10508	10680	10742
30°	10256	10508	10573
35°	10079	10374	10479
40°	9901	10303	10389
45°	9697	10202	10324
50°	9483	10075	10209
55°	9219	9929	9969
60°	8888	9656	9636
65°	8425	9286	9223
70°	7866	8659	8553
75°	6943	7672	7595
80°	5640	6251	5945
85°	3912	3986	3835



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	869.7	3.8
10°-20°	2278.1	10.0
20°-30°	3312.8	14.5
30°-40°	3942.1	17.2
40°-50°	4093.3	17.9
50°-60°	3708.3	16.2
60°-70°	2798.3	12.2
70°-80°	1524.7	6.7
80°-90°	335.0	1.5
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°	6460.6	28.3
0°-40°	10402.7	45.5
0°-60°	18204.3	79.6
0°-90°	22862.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22862.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9843	9843	9843	9843	9843	
5°	9415	9392	9348	9343	9348	874
15°	8062	8042	8047	8101	8126	2275
25°	7078	7137	7194	7253	7236	3262
35°	6136	6210	6316	6412	6380	3836
45°	5096	5187	5362	5421	5425	3939
55°	3930	4024	4233	4262	4250	3509
65°	2646	2722	2917	2912	2897	2616
75°	1336	1390	1476	1486	1461	1423
85°	253	256	258	256	248	320
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9842.6	9842.6	9842.6	9842.6	9842.6
2.5°	9756.5	9746.6	9714.6	9702.3	9699.8
5°	9414.6	9392.5	9348.2	9343.4	9348.2
7.5°	9006.4	8981.7	8937.6	8954.7	8976.9
10°	8662.0	8600.6	8583.2	8607.9	8649.7
12.5°	8354.5	8305.4	8290.5	8354.5	8384.2
15°	8061.8	8042.2	8047.2	8101.4	8125.8
17.5°	7808.7	7796.3	7828.3	7870.1	7882.5
20°	7555.3	7580.0	7609.4	7653.8	7668.4
22.5°	7306.9	7353.6	7402.9	7461.8	7442.2
25°	7078.2	7137.2	7193.8	7252.8	7235.7
27.5°	6834.7	6903.5	6982.3	7046.2	7021.6
30°	6601.0	6687.1	6763.4	6842.0	6805.2
32.5°	6369.9	6451.1	6542.0	6638.0	6596.1
35°	6136.2	6210.0	6315.8	6411.8	6379.8
37.5°	5878.0	5969.0	6089.4	6173.0	6151.1
40°	5637.0	5720.6	5865.7	5919.8	5914.8
42.5°	5393.4	5462.4	5614.8	5676.3	5666.5
45°	5096.0	5186.9	5361.5	5420.6	5425.4
47.5°	4832.8	4909.1	5096.0	5142.6	5152.4
50°	4530.3	4626.2	4813.1	4869.6	4877.1
52.5°	4232.6	4335.8	4527.7	4567.0	4574.6
55°	3930.1	4023.5	4232.6	4262.2	4249.9
57.5°	3612.9	3726.0	3917.9	3932.6	3944.9
60°	3302.9	3401.3	3588.2	3607.9	3580.9
62.5°	2966.1	3066.9	3258.8	3263.6	3241.4
65°	2646.2	2722.5	2916.8	2911.9	2897.1
67.5°	2311.7	2405.2	2548.0	2552.8	2540.7
70°	1999.4	2063.4	2201.2	2203.7	2174.2
72.5°	1662.6	1731.4	1842.0	1827.4	1820.0
75°	1335.5	1389.6	1475.7	1485.6	1460.9
77.5°	1035.5	1074.8	1138.7	1131.4	1104.2
80°	727.9	759.9	806.7	796.9	767.2
82.5°	464.7	484.6	514.1	501.7	489.4
85°	253.4	255.7	258.2	255.7	248.4
87.5°	93.4	96.0	96.0	93.4	86.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)