

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: P488821

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-3HI-27-120-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: P488821  
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-12-4-INS-P12125-LD4-3HI-27-120-EDD  
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

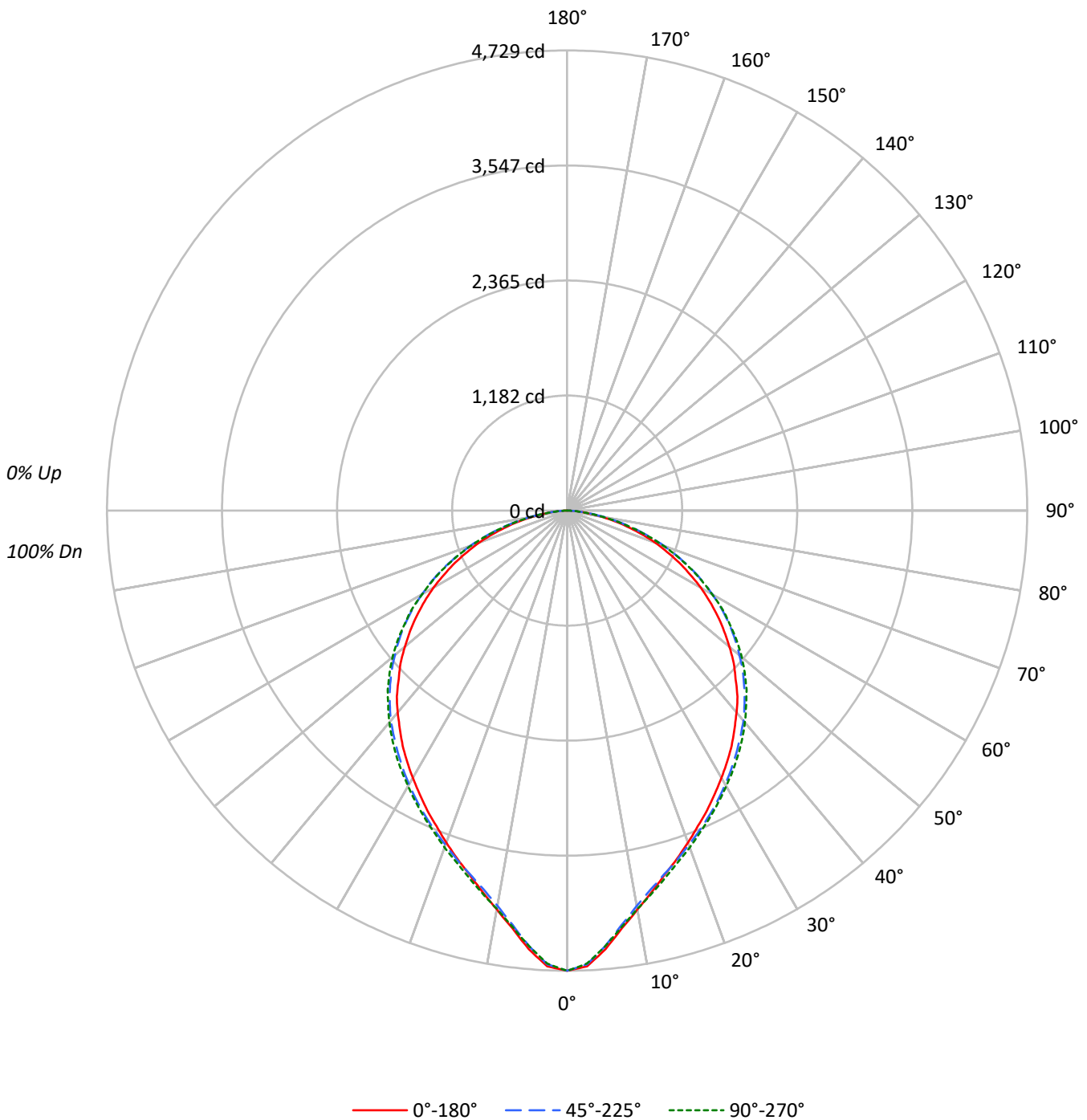
Lumens per Lamp: N/A  
Luminaire Lumens: 10984.4 lumens  
Efficiency: N/A  
Efficacy: 84.8 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 129.6  
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	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													100															
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84													84															
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70													70															
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59													59															
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51													51															
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44													44															
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38													38															
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34													34															
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30													30															
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27													27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25													25															

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

	0°	45°	90°
0°	12726	12726	12726
5°	12219	12132	12132
10°	11372	11269	11356
15°	10791	10771	10876
20°	10395	10470	10551
25°	10098	10262	10322
30°	9855	10097	10160
35°	9685	9969	10069
40°	9514	9900	9983
45°	9318	9803	9920
50°	9112	9681	9810
55°	8859	9541	9580
60°	8541	9278	9260
65°	8096	8923	8863
70°	7558	8321	8219
75°	6671	7372	7298
80°	5419	6007	5712
85°	3758	3829	3683



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	417.9	3.8
10°-20°	1094.5	10.0
20°-30°	1591.7	14.5
30°-40°	1894.0	17.2
40°-50°	1966.7	17.9
50°-60°	1781.7	16.2
60°-70°	1344.5	12.2
70°-80°	732.5	6.7
80°-90°	161.0	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°	3104.1	28.3
0°-40°	4998.1	45.5
0°-60°	8746.4	79.6
0°-90°	10984.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10984.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4729	4729	4729	4729	4729	
5°	4523	4513	4491	4489	4491	420
15°	3873	3864	3866	3892	3904	1093
25°	3401	3429	3456	3485	3476	1567
35°	2948	2984	3034	3081	3065	1843
45°	2448	2492	2576	2604	2607	1893
55°	1888	1933	2034	2048	2042	1686
65°	1271	1308	1401	1399	1392	1257
75°	642	668	709	714	702	683
85°	122	123	124	123	119	154
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4729.0	4729.0	4729.0	4729.0	4729.0
2.5°	4687.6	4682.9	4667.5	4661.6	4660.4
5°	4523.4	4512.7	4491.4	4489.1	4491.4
7.5°	4327.2	4315.3	4294.1	4302.4	4313.0
10°	4161.8	4132.2	4123.9	4135.7	4155.8
12.5°	4014.0	3990.4	3983.3	4014.0	4028.3
15°	3873.4	3863.9	3866.4	3892.4	3904.1
17.5°	3751.7	3745.8	3761.2	3781.3	3787.2
20°	3630.0	3641.9	3656.0	3677.3	3684.4
22.5°	3510.7	3533.1	3556.8	3585.1	3575.7
25°	3400.8	3429.1	3456.3	3484.7	3476.4
27.5°	3283.8	3316.8	3354.7	3385.4	3373.6
30°	3171.5	3212.9	3249.5	3287.3	3269.6
32.5°	3060.5	3099.5	3143.2	3189.3	3169.2
35°	2948.2	2983.7	3034.5	3080.6	3065.2
37.5°	2824.2	2867.8	2925.7	2965.9	2955.3
40°	2708.3	2748.5	2818.2	2844.2	2841.8
42.5°	2591.3	2624.5	2697.7	2727.2	2722.5
45°	2448.4	2492.1	2576.0	2604.4	2606.7
47.5°	2321.9	2358.6	2448.4	2470.8	2475.5
50°	2176.6	2222.7	2312.5	2339.6	2343.2
52.5°	2033.6	2083.2	2175.4	2194.3	2197.9
55°	1888.2	1933.1	2033.6	2047.8	2041.9
57.5°	1735.9	1790.2	1882.4	1889.4	1895.4
60°	1586.9	1634.2	1724.0	1733.4	1720.5
62.5°	1425.1	1473.5	1565.7	1568.0	1557.4
65°	1271.4	1308.1	1401.4	1399.1	1391.9
67.5°	1110.7	1155.6	1224.2	1226.5	1220.7
70°	960.6	991.4	1057.6	1058.8	1044.6
72.5°	798.8	831.9	885.0	878.0	874.5
75°	641.6	667.6	709.0	713.7	701.9
77.5°	497.5	516.4	547.1	543.6	530.5
80°	349.7	365.1	387.6	382.9	368.6
82.5°	223.3	232.8	247.0	241.1	235.1
85°	121.7	122.8	124.0	122.8	119.3
87.5°	44.9	46.1	46.1	44.9	41.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)