

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: P488747

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-1HI-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: P488747  
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-LD4-1HI-20-120-EDD  
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

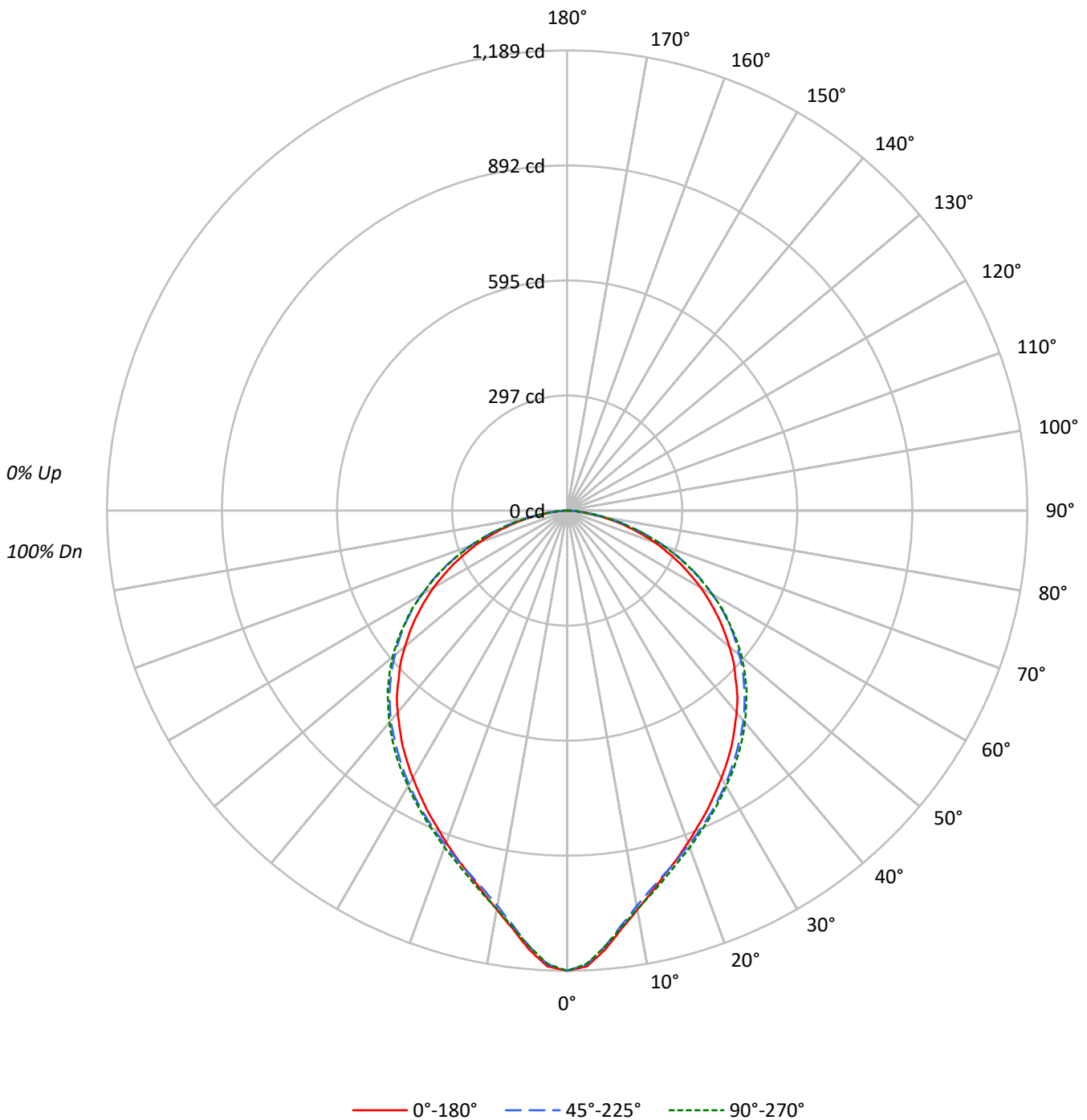
Lumens per Lamp: N/A  
Luminaire Lumens: 2761.8 lumens  
Efficiency: N/A  
Efficacy: 63.9 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 43.2  
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

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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°	3200	3200	3200
5°	3072	3051	3051
10°	2859	2833	2855
15°	2713	2708	2735
20°	2614	2632	2653
25°	2539	2580	2595
30°	2478	2539	2554
35°	2435	2507	2532
40°	2392	2489	2510
45°	2343	2465	2494
50°	2291	2434	2467
55°	2228	2399	2409
60°	2147	2333	2328
65°	2036	2243	2229
70°	1900	2092	2066
75°	1677	1854	1835
80°	1362	1511	1437
85°	945	963	926



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.1	3.8
10°-20°	275.2	10.0
20°-30°	400.2	14.5
30°-40°	476.2	17.2
40°-50°	494.5	17.9
50°-60°	448.0	16.2
60°-70°	338.0	12.2
70°-80°	184.2	6.7
80°-90°	40.5	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°	780.4	28.3
0°-40°	1256.7	45.5
0°-60°	2199.1	79.6
0°-90°	2761.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2761.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1189	1189	1189	1189	1189	
5°	1137	1135	1129	1129	1129	106
15°	974	972	972	979	982	275
25°	855	862	869	876	874	394
35°	741	750	763	775	771	463
45°	616	627	648	655	655	476
55°	475	486	511	515	513	424
65°	320	329	352	352	350	316
75°	161	168	178	180	176	172
85°	31	31	31	31	30	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1189.0	1189.0	1189.0	1189.0	1189.0
2.5°	1178.6	1177.4	1173.5	1172.1	1171.8
5°	1137.3	1134.6	1129.3	1128.7	1129.3
7.5°	1088.0	1085.0	1079.7	1081.7	1084.4
10°	1046.4	1039.0	1036.9	1039.8	1044.9
12.5°	1009.2	1003.3	1001.5	1009.2	1012.8
15°	973.9	971.5	972.1	978.7	981.6
17.5°	943.3	941.8	945.7	950.7	952.2
20°	912.7	915.7	919.2	924.6	926.4
22.5°	882.7	888.3	894.3	901.4	899.0
25°	855.1	862.2	869.0	876.1	874.1
27.5°	825.6	833.9	843.5	851.2	848.2
30°	797.4	807.8	817.0	826.5	822.1
32.5°	769.5	779.3	790.3	801.9	796.8
35°	741.3	750.2	763.0	774.6	770.7
37.5°	710.1	721.1	735.6	745.7	743.1
40°	681.0	691.1	708.6	715.1	714.5
42.5°	651.5	659.9	678.3	685.7	684.5
45°	615.6	626.6	647.7	654.8	655.4
47.5°	583.8	593.0	615.6	621.2	622.4
50°	547.3	558.9	581.4	588.2	589.2
52.5°	511.3	523.8	547.0	551.7	552.6
55°	474.8	486.0	511.3	514.9	513.4
57.5°	436.4	450.1	473.3	475.1	476.5
60°	399.0	410.9	433.5	435.8	432.6
62.5°	358.3	370.5	393.7	394.2	391.6
65°	319.7	328.9	352.3	351.8	350.0
67.5°	279.3	290.6	307.8	308.4	306.9
70°	241.5	249.3	265.9	266.2	262.6
72.5°	200.8	209.2	222.5	220.7	219.9
75°	161.3	167.9	178.3	179.5	176.5
77.5°	125.1	129.8	137.6	136.7	133.4
80°	87.9	91.8	97.5	96.3	92.7
82.5°	56.1	58.5	62.1	60.6	59.1
85°	30.6	30.9	31.2	30.9	30.0
87.5°	11.3	11.6	11.6	11.3	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)