

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: P488804

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-2LO-50-120-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: P488804  
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-LD4-2LO-50-120-EDD-90  
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

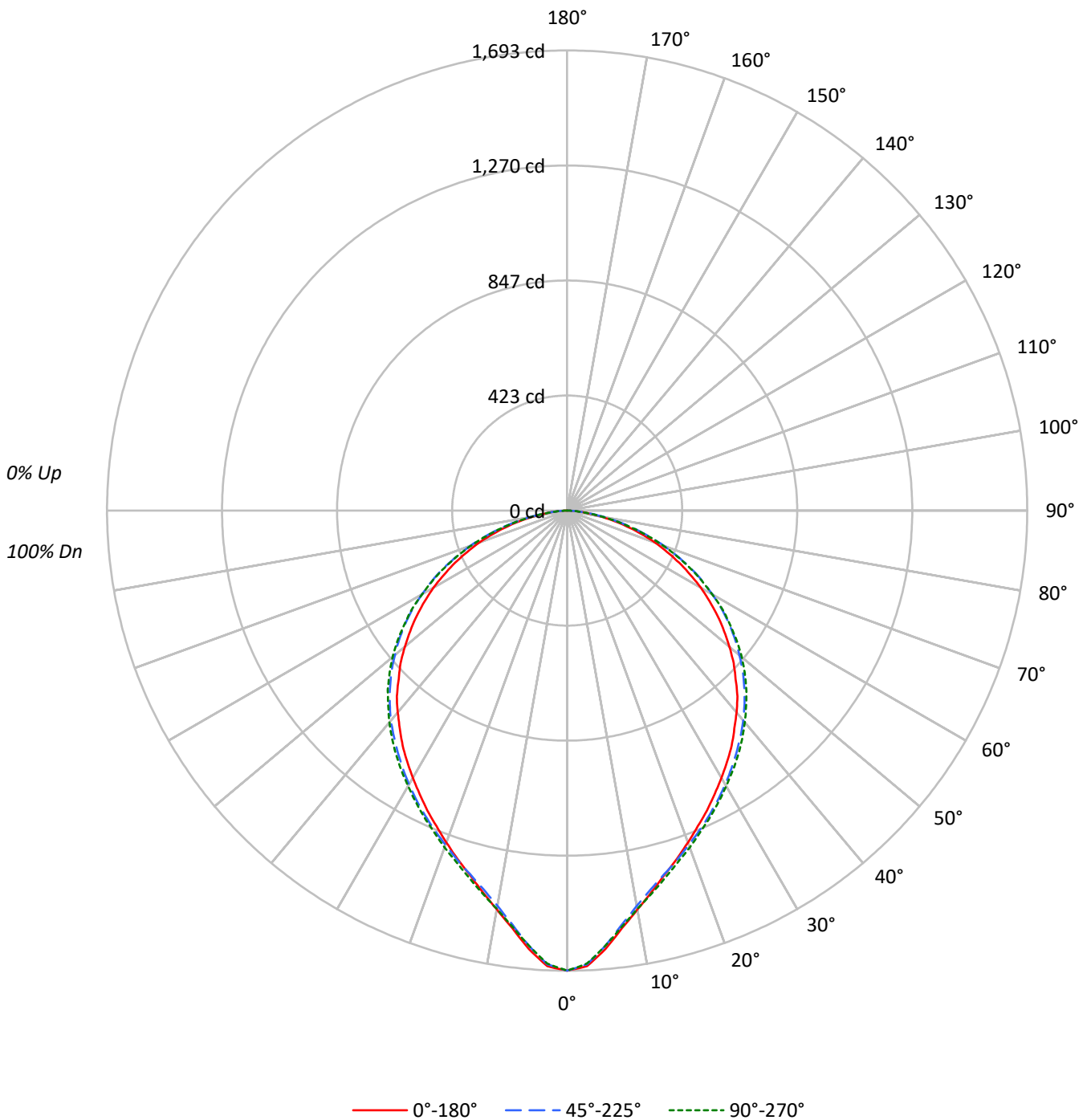
Lumens per Lamp: N/A  
Luminaire Lumens: 3931.9 lumens  
Efficiency: N/A  
Efficacy: 84.0 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 46.8  
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°	4555	4555	4555
5°	4374	4343	4343
10°	4071	4034	4065
15°	3863	3856	3893
20°	3721	3748	3777
25°	3614	3673	3695
30°	3527	3614	3637
35°	3467	3568	3604
40°	3406	3544	3573
45°	3335	3509	3551
50°	3262	3466	3512
55°	3171	3415	3429
60°	3057	3321	3315
65°	2898	3194	3172
70°	2706	2979	2942
75°	2388	2639	2612
80°	1940	2149	2046
85°	1346	1371	1318



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.6	3.8
10°-20°	391.8	10.0
20°-30°	569.7	14.5
30°-40°	678.0	17.2
40°-50°	704.0	17.9
50°-60°	637.8	16.2
60°-70°	481.2	12.2
70°-80°	262.2	6.7
80°-90°	57.6	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°	1111.1	28.3
0°-40°	1789.1	45.5
0°-60°	3130.8	79.6
0°-90°	3931.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3931.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1693	1693	1693	1693	1693	
5°	1619	1615	1608	1607	1608	150
15°	1386	1383	1384	1393	1398	391
25°	1217	1228	1237	1247	1244	561
35°	1055	1068	1086	1103	1097	660
45°	876	892	922	932	933	677
55°	676	692	728	733	731	603
65°	455	468	502	501	498	450
75°	230	239	254	256	251	245
85°	44	44	44	44	43	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1692.7	1692.7	1692.7	1692.7	1692.7
2.5°	1677.9	1676.2	1670.7	1668.6	1668.2
5°	1619.1	1615.3	1607.7	1606.9	1607.7
7.5°	1548.9	1544.7	1537.1	1540.0	1543.9
10°	1489.7	1479.1	1476.2	1480.4	1487.6
12.5°	1436.8	1428.4	1425.8	1436.8	1441.9
15°	1386.5	1383.1	1384.0	1393.3	1397.5
17.5°	1343.0	1340.8	1346.3	1353.5	1355.6
20°	1299.4	1303.6	1308.7	1316.3	1318.8
22.5°	1256.7	1264.7	1273.2	1283.3	1279.9
25°	1217.3	1227.5	1237.2	1247.3	1244.4
27.5°	1175.4	1187.3	1200.8	1211.8	1207.6
30°	1135.2	1150.1	1163.2	1176.7	1170.4
32.5°	1095.5	1109.5	1125.1	1141.6	1134.4
35°	1055.3	1068.0	1086.2	1102.7	1097.2
37.5°	1010.9	1026.6	1047.3	1061.6	1057.9
40°	969.5	983.8	1008.8	1018.1	1017.2
42.5°	927.6	939.4	965.6	976.2	974.5
45°	876.4	892.1	922.1	932.2	933.1
47.5°	831.1	844.3	876.4	884.4	886.1
50°	779.1	795.6	827.8	837.5	838.8
52.5°	727.9	745.7	778.7	785.4	786.7
55°	675.9	692.0	727.9	733.0	730.9
57.5°	621.4	640.8	673.8	676.3	678.5
60°	568.0	585.0	617.1	620.5	615.9
62.5°	510.1	527.4	560.4	561.3	557.5
65°	455.1	468.2	501.6	500.8	498.2
67.5°	397.6	413.6	438.2	439.0	436.9
70°	343.9	354.9	378.6	379.0	373.9
72.5°	285.9	297.8	316.8	314.3	313.0
75°	229.7	239.0	253.8	255.5	251.2
77.5°	178.1	184.8	195.8	194.6	189.9
80°	125.2	130.7	138.7	137.1	132.0
82.5°	79.9	83.3	88.4	86.3	84.2
85°	43.6	44.0	44.4	44.0	42.7
87.5°	16.1	16.5	16.5	16.1	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)