

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: P488505

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-2HI-50-120-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: P488505  
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-12-2-INS-P12125-LD4-2HI-50-120-EDD  
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

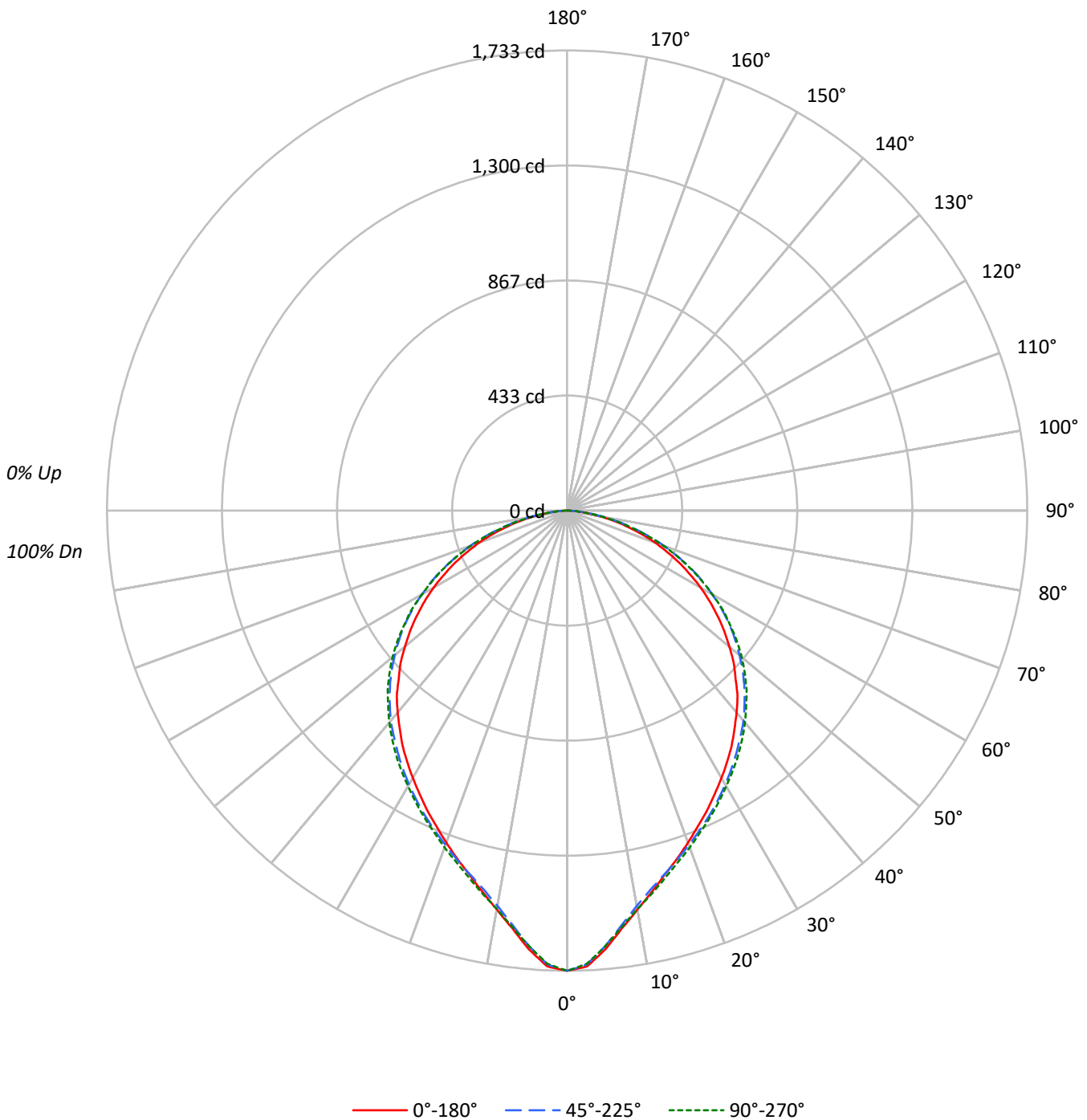
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4025.9 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 2' 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°	9328	9328	9328
5°	8957	8894	8894
10°	8336	8260	8324
15°	7910	7896	7973
20°	7620	7675	7734
25°	7402	7523	7567
30°	7224	7402	7448
35°	7099	7307	7381
40°	6974	7257	7318
45°	6830	7186	7272
50°	6679	7097	7191
55°	6494	6993	7022
60°	6260	6802	6788
65°	5934	6541	6497
70°	5541	6099	6025
75°	4891	5404	5350
80°	3973	4404	4187
85°	2754	2810	2699



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.2	3.8
10°-20°	401.2	10.0
20°-30°	583.4	14.5
30°-40°	694.2	17.2
40°-50°	720.8	17.9
50°-60°	653.0	16.2
60°-70°	492.8	12.2
70°-80°	268.5	6.7
80°-90°	59.0	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°	1137.7	28.3
0°-40°	1831.9	45.5
0°-60°	3205.7	79.6
0°-90°	4025.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4025.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1733	1733	1733	1733	1733	
5°	1658	1654	1646	1645	1646	154
15°	1420	1416	1417	1427	1431	401
25°	1246	1257	1267	1277	1274	574
35°	1080	1094	1112	1129	1123	676
45°	897	913	944	954	955	694
55°	692	708	745	751	748	618
65°	466	479	514	513	510	461
75°	235	245	260	262	257	251
85°	45	45	46	45	44	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1733.2	1733.2	1733.2	1733.2	1733.2
2.5°	1718.0	1716.3	1710.7	1708.5	1708.1
5°	1657.9	1654.0	1646.2	1645.3	1646.2
7.5°	1586.0	1581.6	1573.8	1576.9	1580.8
10°	1525.3	1514.5	1511.4	1515.8	1523.2
12.5°	1471.2	1462.5	1459.9	1471.2	1476.4
15°	1419.6	1416.2	1417.1	1426.6	1430.9
17.5°	1375.1	1372.9	1378.5	1385.9	1388.1
20°	1330.4	1334.8	1340.0	1347.8	1350.4
22.5°	1286.7	1294.9	1303.6	1314.0	1310.5
25°	1246.4	1256.8	1266.8	1277.2	1274.2
27.5°	1203.5	1215.7	1229.5	1240.8	1236.5
30°	1162.4	1177.6	1191.0	1204.8	1198.4
32.5°	1121.7	1136.0	1152.0	1168.9	1161.5
35°	1080.5	1093.5	1112.2	1129.1	1123.4
37.5°	1035.1	1051.1	1072.3	1087.0	1083.2
40°	992.6	1007.4	1032.9	1042.4	1041.6
42.5°	949.8	961.9	988.7	999.6	997.8
45°	897.4	913.4	944.1	954.5	955.4
47.5°	851.0	864.5	897.4	905.6	907.3
50°	797.7	814.6	847.6	857.5	858.8
52.5°	745.3	763.5	797.3	804.2	805.6
55°	692.1	708.5	745.3	750.6	748.4
57.5°	636.2	656.1	689.9	692.5	694.7
60°	581.6	599.0	631.9	635.3	630.6
62.5°	522.3	540.1	573.8	574.7	570.8
65°	466.0	479.4	513.6	512.8	510.2
67.5°	407.1	423.5	448.7	449.5	447.4
70°	352.1	363.3	387.6	388.1	382.9
72.5°	292.8	304.9	324.4	321.8	320.5
75°	235.2	244.7	259.9	261.6	257.3
77.5°	182.3	189.3	200.5	199.2	194.4
80°	128.2	133.8	142.1	140.3	135.1
82.5°	81.8	85.3	90.5	88.4	86.2
85°	44.6	45.0	45.5	45.0	43.7
87.5°	16.5	16.9	16.9	16.5	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)