

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: P488352

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-2HI-27-120-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: P488352  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)  
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-A12125-LD4-2HI-27-120-EDD-90  
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

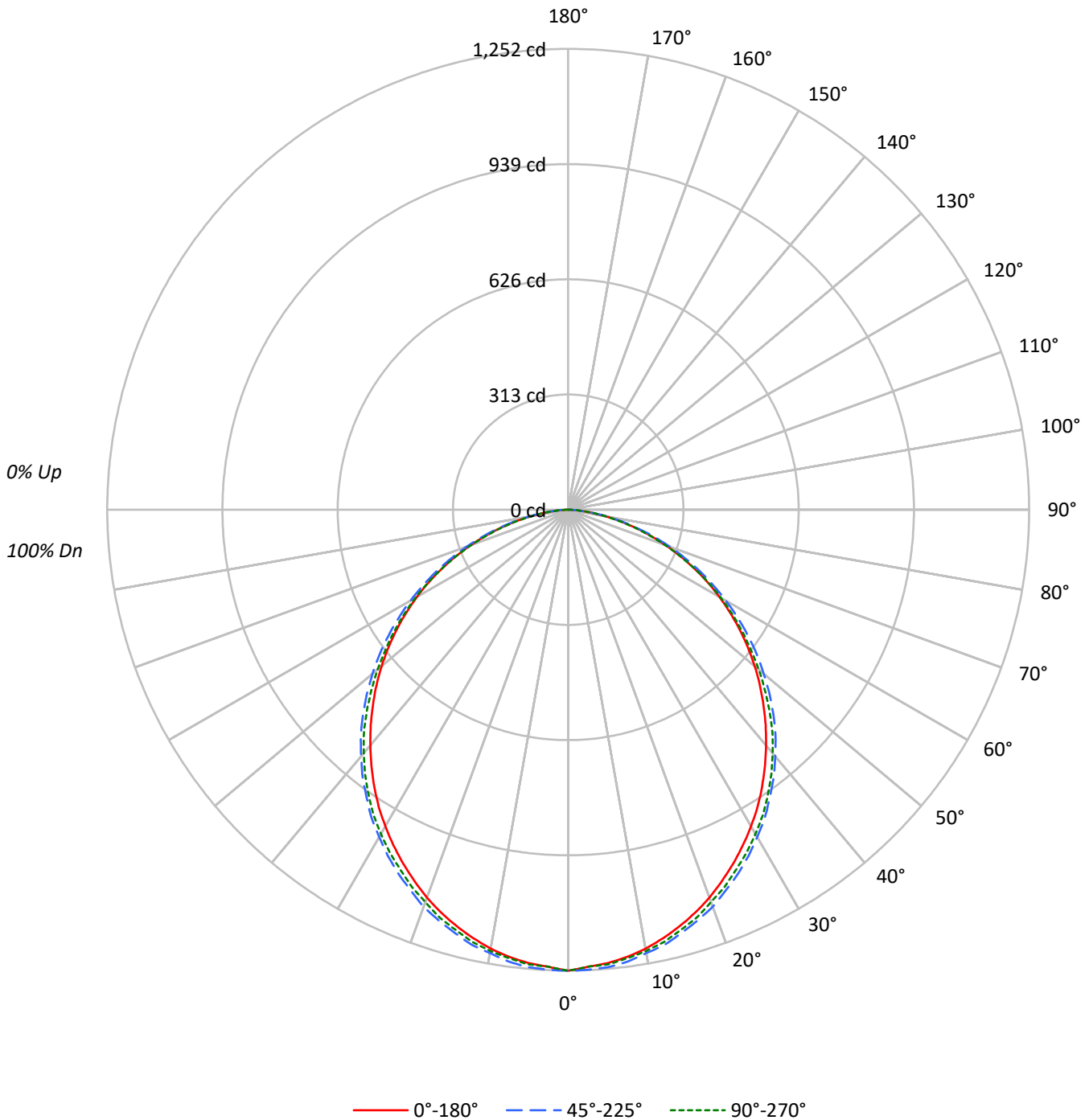
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3293.0 lumens  
Efficiency: N/A  
Efficacy: 76.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	6741	6741	6741
5°	6679	6741	6700
10°	6618	6685	6653
15°	6526	6632	6585
20°	6423	6576	6497
25°	6298	6481	6406
30°	6171	6380	6321
35°	6032	6271	6213
40°	5875	6145	6067
45°	5710	5998	5885
50°	5539	5807	5654
55°	5337	5588	5416
60°	5111	5323	5158
65°	4816	5001	4820
70°	4431	4611	4382
75°	3903	4078	3843
80°	3171	3307	3133
85°	2211	2353	2297



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.0	3.6
10°-20°	334.3	10.2
20°-30°	498.6	15.1
30°-40°	590.8	17.9
40°-50°	597.8	18.2
50°-60°	522.1	15.9
60°-70°	381.5	11.6
70°-80°	203.0	6.2
80°-90°	46.9	1.4
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°	950.8	28.9
0°-40°	1541.6	46.8
0°-60°	2661.5	80.8
0°-90°	3293.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3293.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1252	1252	1252	1252	1252	
5°	1236	1239	1248	1251	1240	117
15°	1171	1179	1190	1197	1182	330
25°	1061	1074	1091	1095	1079	489
35°	918	932	954	961	946	574
45°	750	764	788	789	773	579
55°	569	580	596	587	577	508
65°	378	386	393	385	378	374
75°	188	192	196	189	185	200
85°	36	36	38	38	37	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1252.5	1252.5	1252.5	1252.5	1252.5
2.5°	1242.8	1246.8	1251.0	1252.8	1242.6
5°	1236.2	1238.6	1247.8	1250.7	1240.1
7.5°	1225.5	1229.0	1238.1	1239.4	1229.2
10°	1210.9	1217.2	1223.2	1229.7	1217.3
12.5°	1192.2	1200.7	1210.9	1212.1	1202.7
15°	1171.2	1179.1	1190.2	1197.3	1181.8
17.5°	1147.7	1155.3	1169.7	1171.0	1161.6
20°	1121.5	1130.9	1148.1	1151.1	1134.3
22.5°	1091.8	1104.4	1118.8	1121.6	1109.3
25°	1060.6	1073.6	1091.4	1095.4	1078.8
27.5°	1027.9	1040.5	1060.4	1063.3	1049.4
30°	993.0	1004.7	1026.6	1031.5	1017.2
32.5°	957.5	969.2	993.5	997.5	983.7
35°	918.1	932.4	954.5	961.1	945.6
37.5°	877.9	891.8	916.9	922.9	906.2
40°	836.2	850.1	874.7	879.7	863.6
42.5°	793.7	807.5	833.9	834.7	821.4
45°	750.2	763.6	788.1	788.7	773.2
47.5°	706.1	719.6	741.5	739.0	724.4
50°	661.5	674.3	693.5	688.5	675.3
52.5°	615.3	627.7	645.8	637.8	625.4
55°	568.8	580.3	595.5	586.9	577.2
57.5°	522.0	533.6	545.2	536.5	528.1
60°	474.8	484.9	494.5	485.6	479.2
62.5°	426.7	435.5	443.7	435.2	429.2
65°	378.2	385.9	392.7	384.8	378.5
67.5°	329.9	336.4	342.7	334.6	327.9
70°	281.6	287.2	293.0	284.6	278.5
72.5°	234.0	238.9	244.0	235.9	230.6
75°	187.7	192.0	196.1	189.0	184.8
77.5°	143.4	147.1	149.9	145.4	141.3
80°	102.3	105.1	106.7	104.9	101.1
82.5°	65.8	67.7	68.6	68.5	66.0
85°	35.8	36.4	38.1	38.5	37.2
87.5°	13.8	14.7	15.1	16.3	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)