

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: P488358

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-2HI-40-120-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: P488358  
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-40-120-EDD-90  
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

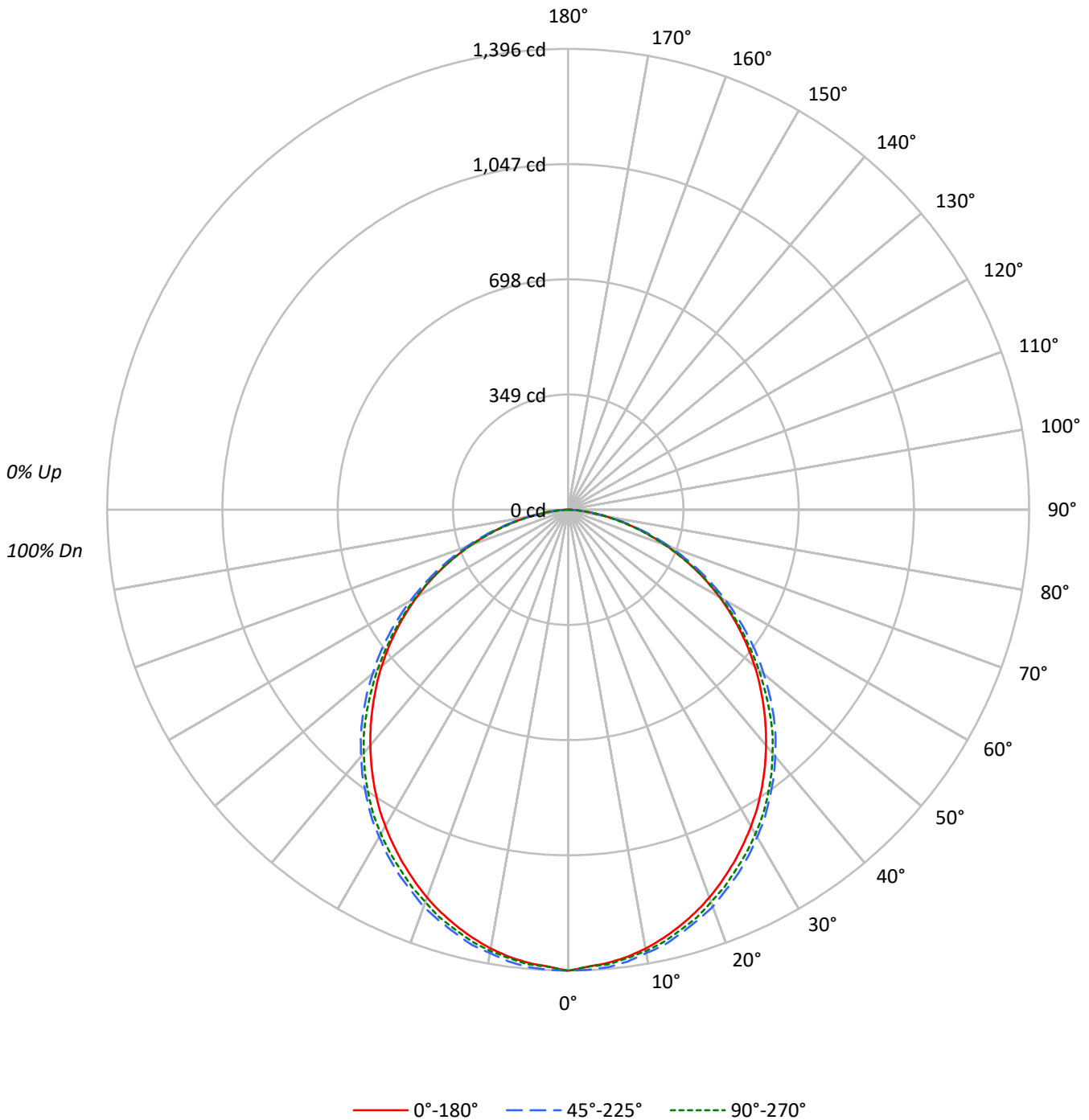
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3671.2 lumens  
Efficiency: N/A  
Efficacy: 85.0 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°	7515	7515	7515
5°	7446	7516	7470
10°	7378	7453	7417
15°	7276	7393	7341
20°	7161	7331	7243
25°	7021	7225	7142
30°	6880	7113	7048
35°	6725	6991	6926
40°	6550	6851	6764
45°	6366	6687	6561
50°	6175	6473	6304
55°	5951	6229	6038
60°	5697	5934	5750
65°	5369	5575	5373
70°	4941	5139	4886
75°	4350	4548	4284
80°	3536	3688	3496
85°	2464	2624	2563



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.5	3.6
10°-20°	372.7	10.2
20°-30°	555.8	15.1
30°-40°	658.7	17.9
40°-50°	666.5	18.2
50°-60°	582.1	15.9
60°-70°	425.3	11.6
70°-80°	226.3	6.2
80°-90°	52.3	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°	1060.0	28.9
0°-40°	1718.7	46.8
0°-60°	2967.2	80.8
0°-90°	3671.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3671.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1396	1396	1396	1396	1396	
5°	1378	1381	1391	1394	1383	131
15°	1306	1314	1327	1335	1318	368
25°	1182	1197	1217	1221	1203	545
35°	1024	1040	1064	1072	1054	640
45°	836	851	879	879	862	645
55°	634	647	664	654	644	567
65°	422	430	438	429	422	417
75°	209	214	219	211	206	222
85°	40	41	42	43	42	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1396.4	1396.4	1396.4	1396.4	1396.4
2.5°	1385.5	1390.0	1394.6	1396.7	1385.3
5°	1378.2	1380.8	1391.2	1394.4	1382.6
7.5°	1366.3	1370.2	1380.2	1381.7	1370.4
10°	1350.0	1357.0	1363.7	1370.9	1357.1
12.5°	1329.2	1338.6	1350.0	1351.3	1340.8
15°	1305.8	1314.5	1326.9	1334.9	1317.5
17.5°	1279.6	1288.0	1304.0	1305.5	1295.0
20°	1250.3	1260.8	1280.0	1283.3	1264.6
22.5°	1217.2	1231.3	1247.3	1250.5	1236.6
25°	1182.4	1196.9	1216.7	1221.2	1202.7
27.5°	1146.0	1160.0	1182.2	1185.4	1169.9
30°	1107.0	1120.1	1144.6	1149.9	1134.1
32.5°	1067.4	1080.5	1107.6	1112.1	1096.7
35°	1023.5	1039.5	1064.1	1071.5	1054.2
37.5°	978.7	994.3	1022.2	1028.9	1010.3
40°	932.3	947.7	975.2	980.7	962.8
42.5°	884.9	900.3	929.7	930.5	915.7
45°	836.4	851.3	878.6	879.3	862.0
47.5°	787.2	802.2	826.7	823.9	807.6
50°	737.5	751.7	773.1	767.6	752.9
52.5°	686.0	699.8	720.0	711.0	697.2
55°	634.2	647.0	663.9	654.3	643.5
57.5°	582.0	594.9	607.8	598.1	588.8
60°	529.3	540.6	551.3	541.4	534.2
62.5°	475.7	485.5	494.7	485.2	478.5
65°	421.6	430.2	437.8	429.0	421.9
67.5°	367.8	375.1	382.1	373.0	365.6
70°	314.0	320.2	326.6	317.3	310.5
72.5°	260.9	266.4	272.1	263.0	257.1
75°	209.2	214.0	218.7	210.7	206.0
77.5°	159.9	164.0	167.2	162.1	157.6
80°	114.1	117.1	119.0	117.0	112.8
82.5°	73.3	75.5	76.5	76.4	73.6
85°	39.9	40.6	42.5	42.9	41.5
87.5°	15.4	16.4	16.9	18.2	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)