

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: P488921

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-2STD-35-120-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: P488921  
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-24-2-INS-A12125-LD4-2STD-35-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

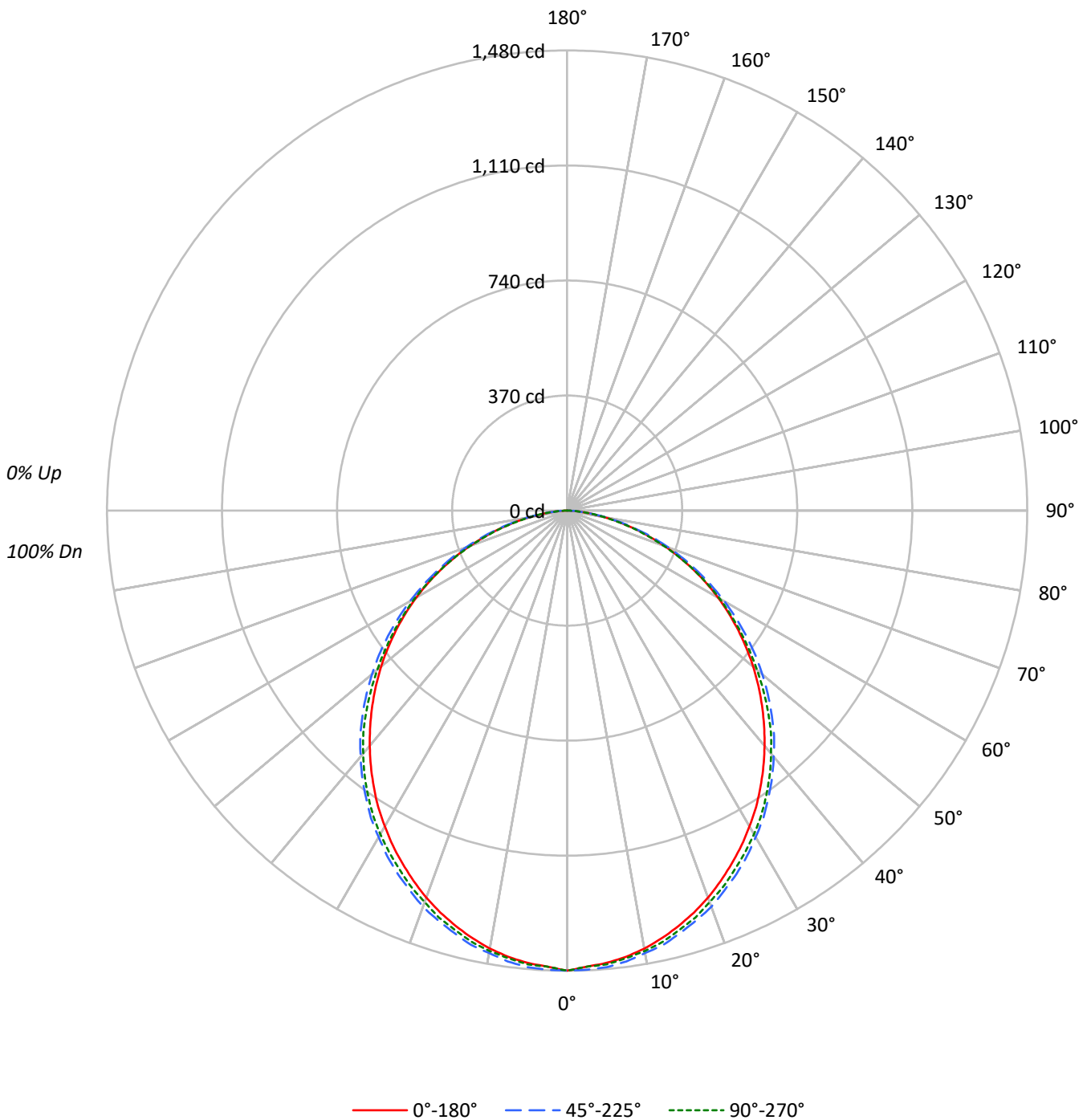
Lumens per Lamp: N/A  
Luminaire Lumens: 3889.9 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
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°	3982	3982	3982
5°	3945	3982	3957
10°	3909	3948	3929
15°	3854	3917	3889
20°	3794	3884	3837
25°	3720	3828	3784
30°	3645	3768	3734
35°	3563	3704	3669
40°	3470	3630	3584
45°	3373	3543	3476
50°	3271	3430	3340
55°	3153	3300	3199
60°	3018	3144	3047
65°	2844	2954	2846
70°	2618	2723	2589
75°	2305	2409	2270
80°	1874	1954	1852
85°	1303	1389	1355



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.3	3.6
10°-20°	394.9	10.2
20°-30°	588.9	15.1
30°-40°	697.9	17.9
40°-50°	706.2	18.2
50°-60°	616.7	15.9
60°-70°	450.7	11.6
70°-80°	239.8	6.2
80°-90°	55.4	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°	1123.2	28.9
0°-40°	1821.1	46.8
0°-60°	3144.0	80.8
0°-90°	3889.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3889.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1480	1480	1480	1480	1480	
5°	1460	1463	1474	1477	1465	138
15°	1384	1393	1406	1414	1396	390
25°	1253	1268	1289	1294	1274	577
35°	1084	1101	1128	1135	1117	678
45°	886	902	931	932	913	684
55°	672	686	703	693	682	601
65°	447	456	464	455	447	442
75°	222	227	232	223	218	236
85°	42	43	45	46	44	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1479.6	1479.6	1479.6	1479.6	1479.6
2.5°	1468.0	1472.8	1477.7	1479.9	1467.9
5°	1460.3	1463.1	1474.0	1477.4	1464.9
7.5°	1447.7	1451.8	1462.5	1464.0	1452.0
10°	1430.4	1437.8	1444.9	1452.6	1438.0
12.5°	1408.4	1418.4	1430.4	1431.8	1420.7
15°	1383.5	1392.8	1405.9	1414.4	1396.0
17.5°	1355.8	1364.7	1381.7	1383.2	1372.1
20°	1324.8	1335.9	1356.3	1359.8	1339.9
22.5°	1289.7	1304.6	1321.6	1325.0	1310.3
25°	1252.8	1268.2	1289.2	1294.0	1274.4
27.5°	1214.3	1229.1	1252.7	1256.1	1239.6
30°	1173.0	1186.8	1212.7	1218.4	1201.6
32.5°	1131.0	1144.9	1173.6	1178.4	1162.0
35°	1084.5	1101.4	1127.5	1135.4	1117.0
37.5°	1037.0	1053.5	1083.1	1090.2	1070.5
40°	987.8	1004.2	1033.3	1039.2	1020.2
42.5°	937.6	953.9	985.1	986.0	970.3
45°	886.2	902.0	930.9	931.7	913.4
47.5°	834.1	850.0	875.9	873.0	855.7
50°	781.4	796.5	819.2	813.3	797.8
52.5°	726.8	741.5	762.9	753.4	738.7
55°	672.0	685.5	703.4	693.2	681.8
57.5°	616.6	630.3	644.1	633.7	623.9
60°	560.8	572.8	584.1	573.6	566.1
62.5°	504.1	514.4	524.1	514.1	507.0
65°	446.7	455.8	463.9	454.6	447.0
67.5°	389.7	397.4	404.8	395.3	387.4
70°	332.7	339.3	346.1	336.2	329.0
72.5°	276.4	282.3	288.3	278.7	272.4
75°	221.7	226.8	231.7	223.2	218.3
77.5°	169.4	173.7	177.1	171.7	166.9
80°	120.9	124.1	126.1	123.9	119.5
82.5°	77.7	80.0	81.1	80.9	78.0
85°	42.2	43.0	45.0	45.5	43.9
87.5°	16.3	17.4	17.9	19.3	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)