

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: P488894

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-2HI-30-120-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: P488894  
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-LD4-2HI-30-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

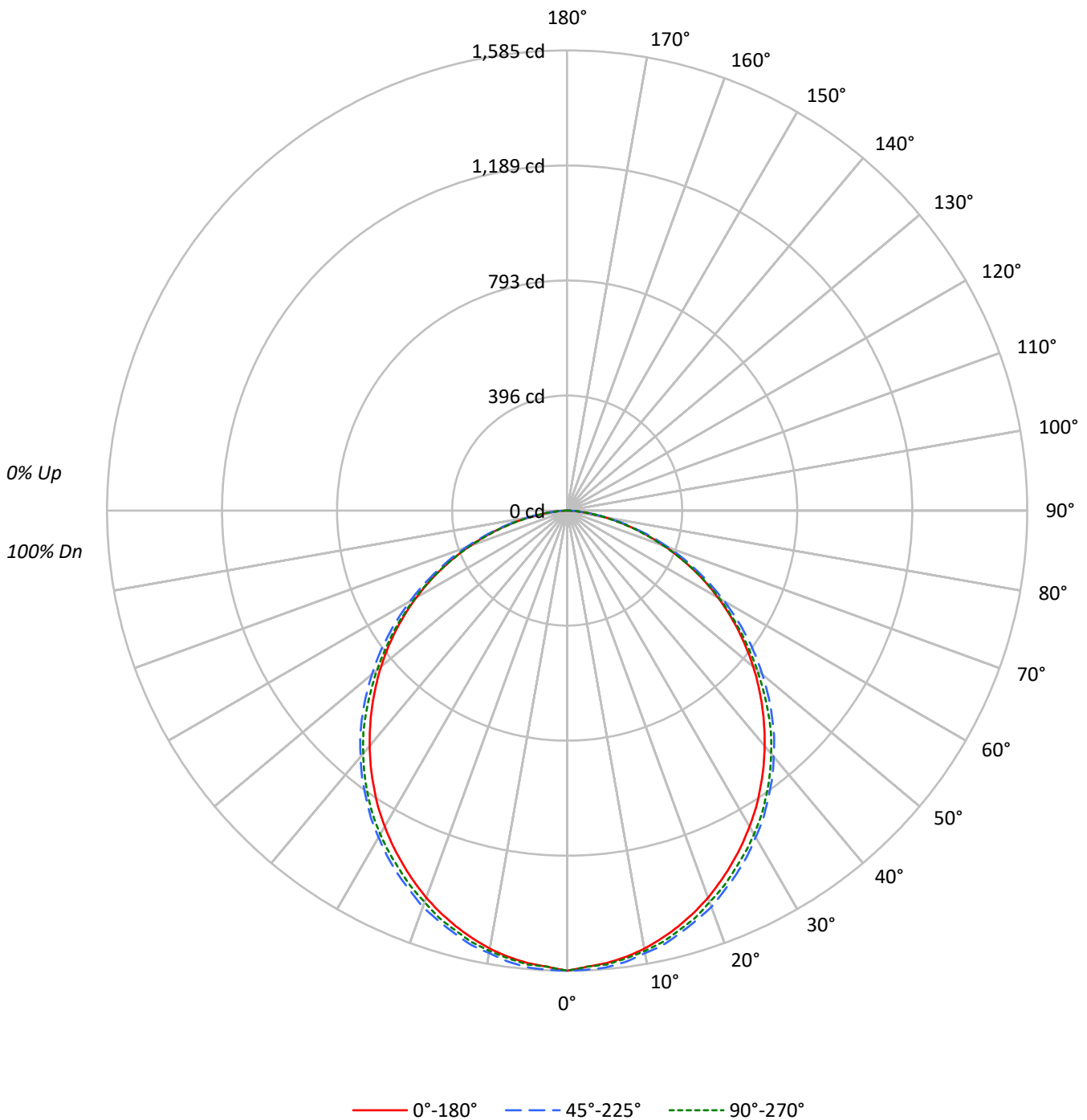
Lumens per Lamp: N/A  
Luminaire Lumens: 4166.9 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	4265	4265	4265
5°	4226	4265	4239
10°	4187	4229	4209
15°	4129	4196	4166
20°	4064	4160	4110
25°	3985	4100	4053
30°	3904	4037	4000
35°	3816	3968	3931
40°	3717	3888	3839
45°	3613	3795	3723
50°	3504	3674	3578
55°	3377	3535	3427
60°	3233	3367	3264
65°	3047	3164	3049
70°	2804	2917	2773
75°	2469	2581	2431
80°	2007	2094	1984
85°	1396	1488	1454



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.3	3.6
10°-20°	423.0	10.2
20°-30°	630.9	15.1
30°-40°	747.6	17.9
40°-50°	756.5	18.2
50°-60°	660.7	15.9
60°-70°	482.8	11.6
70°-80°	256.9	6.2
80°-90°	59.4	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°	1203.1	28.9
0°-40°	1950.8	46.8
0°-60°	3367.9	80.8
0°-90°	4166.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4166.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1585	1585	1585	1585	1585	
5°	1564	1567	1579	1583	1569	148
15°	1482	1492	1506	1515	1495	418
25°	1342	1358	1381	1386	1365	618
35°	1162	1180	1208	1216	1196	726
45°	949	966	997	998	978	732
55°	720	734	754	743	730	643
65°	479	488	497	487	479	474
75°	238	243	248	239	234	253
85°	45	46	48	49	47	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1584.9	1584.9	1584.9	1584.9	1584.9
2.5°	1572.6	1577.7	1583.0	1585.3	1572.4
5°	1564.3	1567.3	1579.0	1582.6	1569.3
7.5°	1550.8	1555.2	1566.6	1568.3	1555.4
10°	1532.3	1540.2	1547.8	1556.0	1540.4
12.5°	1508.6	1519.4	1532.3	1533.7	1521.9
15°	1482.1	1492.0	1506.0	1515.1	1495.4
17.5°	1452.3	1461.9	1480.1	1481.7	1469.8
20°	1419.1	1431.0	1452.8	1456.6	1435.3
22.5°	1381.5	1397.5	1415.7	1419.3	1403.6
25°	1342.0	1358.5	1381.0	1386.1	1365.1
27.5°	1300.7	1316.6	1341.9	1345.5	1327.8
30°	1256.5	1271.4	1299.1	1305.2	1287.2
32.5°	1211.6	1226.4	1257.2	1262.3	1244.8
35°	1161.7	1179.9	1207.8	1216.2	1196.5
37.5°	1110.8	1128.5	1160.2	1167.8	1146.7
40°	1058.2	1075.7	1106.9	1113.2	1092.8
42.5°	1004.3	1021.8	1055.2	1056.2	1039.3
45°	949.3	966.2	997.2	998.1	978.4
47.5°	893.5	910.5	938.3	935.1	916.6
50°	837.1	853.2	877.5	871.2	854.6
52.5°	778.6	794.3	817.2	807.0	791.3
55°	719.8	734.3	753.5	742.6	730.4
57.5°	660.5	675.2	689.9	678.9	668.3
60°	600.8	613.6	625.7	614.5	606.4
62.5°	540.0	551.0	561.5	550.7	543.1
65°	478.6	488.3	496.9	487.0	478.9
67.5°	417.5	425.7	433.6	423.4	415.0
70°	356.4	363.5	370.7	360.2	352.4
72.5°	296.1	302.4	308.8	298.6	291.8
75°	237.5	242.9	248.2	239.1	233.8
77.5°	181.5	186.1	189.7	184.0	178.8
80°	129.5	132.9	135.1	132.8	128.0
82.5°	83.2	85.7	86.9	86.7	83.6
85°	45.2	46.1	48.2	48.7	47.1
87.5°	17.5	18.7	19.2	20.6	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)