

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: P489392

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-5STD-50-120-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: P489392  
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-24-2-INS-P12125-LD4-5STD-50-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

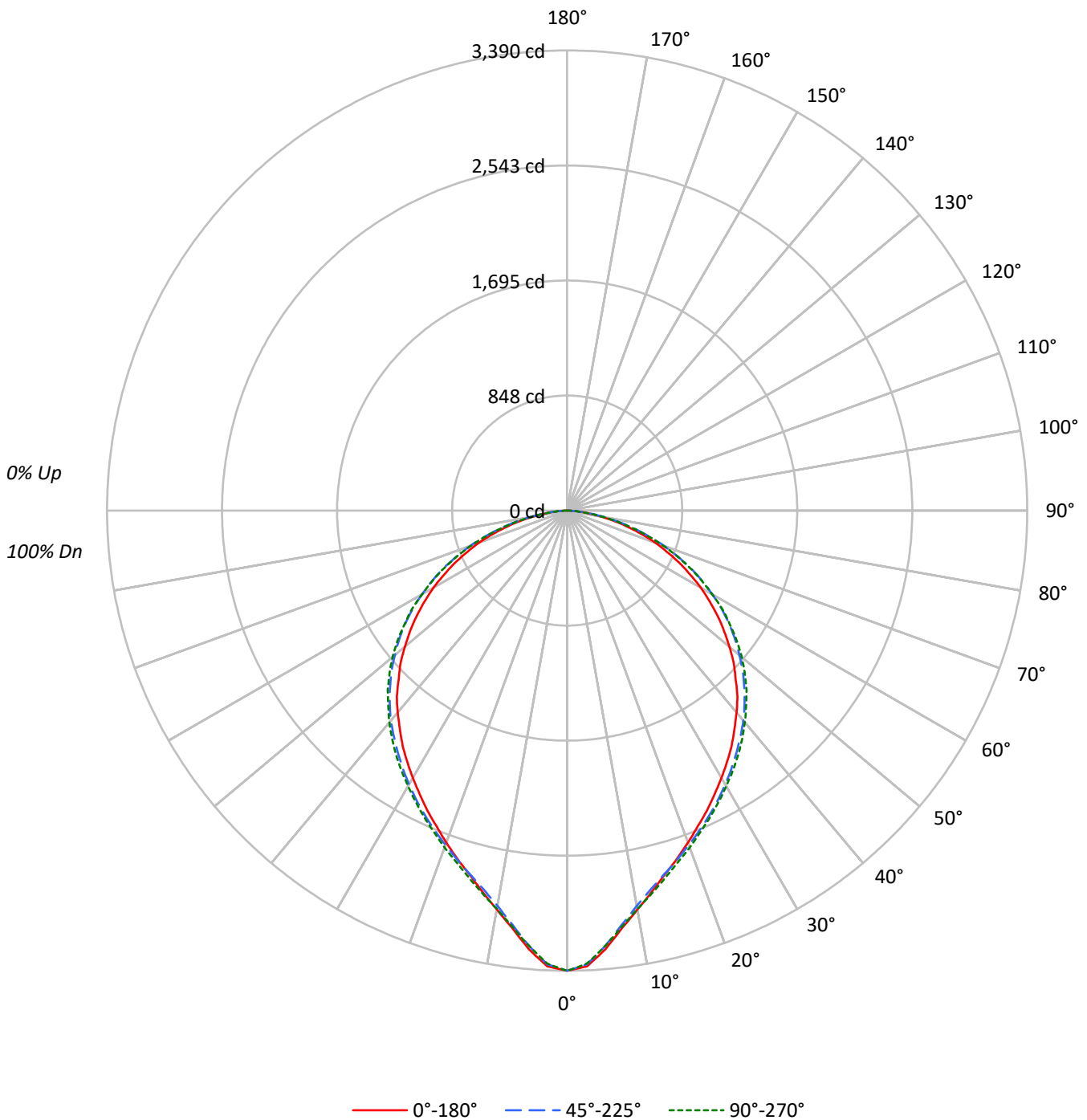
Lumens per Lamp: N/A  
Luminaire Lumens: 7873.7 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 83.2  
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°	9122	9122	9122
5°	8759	8697	8697
10°	8152	8077	8140
15°	7735	7721	7796
20°	7451	7505	7563
25°	7238	7356	7399
30°	7064	7238	7283
35°	6942	7145	7218
40°	6820	7096	7156
45°	6679	7027	7111
50°	6532	6939	7032
55°	6350	6839	6867
60°	6122	6651	6638
65°	5803	6396	6353
70°	5418	5965	5891
75°	4782	5284	5231
80°	3885	4305	4094
85°	2695	2745	2640



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	299.5	3.8
10°-20°	784.6	10.0
20°-30°	1140.9	14.5
30°-40°	1357.7	17.2
40°-50°	1409.7	17.9
50°-60°	1277.1	16.2
60°-70°	963.7	12.2
70°-80°	525.1	6.7
80°-90°	115.4	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°	2225.0	28.3
0°-40°	3582.7	45.5
0°-60°	6269.5	79.6
0°-90°	7873.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7873.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3390	3390	3390	3390	3390	
5°	3242	3235	3220	3218	3220	301
15°	2776	2770	2771	2790	2798	784
25°	2438	2458	2478	2498	2492	1123
35°	2113	2139	2175	2208	2197	1321
45°	1755	1786	1846	1867	1868	1357
55°	1354	1386	1458	1468	1464	1209
65°	911	938	1004	1003	998	901
75°	460	479	508	512	503	490
85°	87	88	89	88	86	110
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3389.8	3389.8	3389.8	3389.8	3389.8
2.5°	3360.1	3356.7	3345.7	3341.4	3340.6
5°	3242.4	3234.7	3219.5	3217.8	3219.5
7.5°	3101.8	3093.3	3078.1	3084.0	3091.6
10°	2983.2	2962.0	2956.0	2964.5	2978.9
12.5°	2877.3	2860.3	2855.2	2877.3	2887.5
15°	2776.5	2769.7	2771.4	2790.1	2798.5
17.5°	2689.3	2685.0	2696.0	2710.4	2714.7
20°	2602.0	2610.5	2620.7	2635.9	2641.0
22.5°	2516.5	2532.5	2549.5	2569.8	2563.1
25°	2437.7	2458.0	2477.5	2497.8	2491.9
27.5°	2353.8	2377.5	2404.7	2426.7	2418.2
30°	2273.3	2303.0	2329.3	2356.4	2343.7
32.5°	2193.8	2221.7	2253.0	2286.1	2271.7
35°	2113.3	2138.7	2175.1	2208.2	2197.2
37.5°	2024.4	2055.7	2097.2	2126.0	2118.4
40°	1941.4	1970.2	2020.1	2038.8	2037.0
42.5°	1857.5	1881.2	1933.7	1954.9	1951.5
45°	1755.0	1786.4	1846.5	1866.8	1868.5
47.5°	1664.4	1690.7	1755.0	1771.1	1774.5
50°	1560.2	1593.3	1657.6	1677.1	1679.6
52.5°	1457.7	1493.2	1559.3	1572.9	1575.5
55°	1353.5	1385.7	1457.7	1467.9	1463.7
57.5°	1244.3	1283.2	1349.3	1354.4	1358.6
60°	1137.5	1171.4	1235.8	1242.5	1233.3
62.5°	1021.5	1056.2	1122.3	1124.0	1116.3
65°	911.4	937.6	1004.5	1002.9	997.8
67.5°	796.2	828.3	877.5	879.2	875.0
70°	688.6	710.6	758.1	758.9	748.8
72.5°	572.6	596.3	634.4	629.3	626.8
75°	459.9	478.6	508.2	511.6	503.1
77.5°	356.6	370.1	392.2	389.7	380.3
80°	250.7	261.7	277.8	274.5	264.2
82.5°	160.1	166.9	177.0	172.8	168.5
85°	87.3	88.1	88.9	88.1	85.5
87.5°	32.2	33.0	33.0	32.2	29.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)