

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: P489843

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-3LO-30-120-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: P489843  
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-24-4-INS-P12125-LD4-3LO-30-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

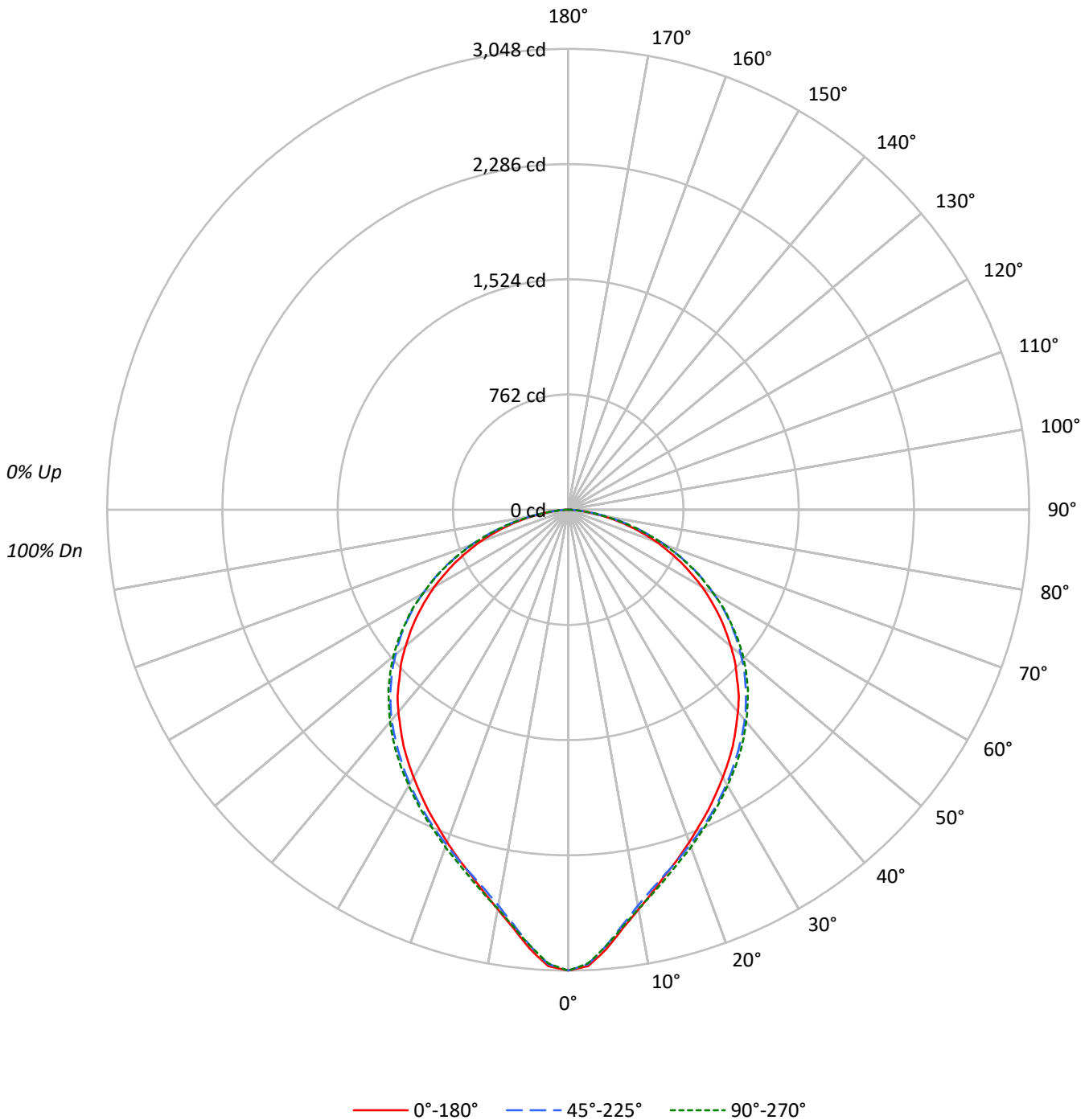
Lumens per Lamp: N/A  
Luminaire Lumens: 7079.3 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 70.2  
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°	4101	4101	4101
5°	3937	3910	3910
10°	3665	3631	3659
15°	3477	3471	3505
20°	3350	3374	3400
25°	3254	3307	3326
30°	3176	3254	3274
35°	3121	3212	3245
40°	3066	3190	3217
45°	3003	3159	3197
50°	2936	3120	3161
55°	2855	3074	3087
60°	2752	2990	2984
65°	2609	2876	2856
70°	2436	2681	2648
75°	2150	2376	2352
80°	1746	1936	1841
85°	1212	1233	1187



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.3	3.8
10°-20°	705.4	10.0
20°-30°	1025.8	14.5
30°-40°	1220.7	17.2
40°-50°	1267.5	17.9
50°-60°	1148.3	16.2
60°-70°	866.5	12.2
70°-80°	472.1	6.7
80°-90°	103.7	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°	2000.5	28.3
0°-40°	3221.2	45.5
0°-60°	5637.0	79.6
0°-90°	7079.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7079.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3048	3048	3048	3048	3048	
5°	2915	2908	2895	2893	2895	271
15°	2496	2490	2492	2509	2516	705
25°	2192	2210	2228	2246	2240	1010
35°	1900	1923	1956	1985	1976	1188
45°	1578	1606	1660	1678	1680	1220
55°	1217	1246	1311	1320	1316	1087
65°	819	843	903	902	897	810
75°	414	430	457	460	452	440
85°	78	79	80	79	77	99
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3047.8	3047.8	3047.8	3047.8	3047.8
2.5°	3021.1	3018.0	3008.1	3004.3	3003.5
5°	2915.2	2908.4	2894.7	2893.2	2894.7
7.5°	2788.8	2781.2	2767.5	2772.8	2779.7
10°	2682.2	2663.2	2657.8	2665.4	2678.4
12.5°	2587.0	2571.8	2567.2	2587.0	2596.2
15°	2496.3	2490.3	2491.8	2508.6	2516.2
17.5°	2418.0	2414.1	2424.0	2437.0	2440.8
20°	2339.5	2347.1	2356.3	2370.0	2374.5
22.5°	2262.6	2277.0	2292.3	2310.6	2304.5
25°	2191.8	2210.0	2227.6	2245.8	2240.5
27.5°	2116.4	2137.7	2162.1	2181.9	2174.2
30°	2044.0	2070.7	2094.3	2118.6	2107.2
32.5°	1972.5	1997.6	2025.7	2055.4	2042.5
35°	1900.1	1922.9	1955.7	1985.4	1975.5
37.5°	1820.1	1848.3	1885.6	1911.5	1904.7
40°	1745.5	1771.4	1816.3	1833.1	1831.5
42.5°	1670.1	1691.4	1738.6	1757.7	1754.6
45°	1578.0	1606.1	1660.2	1678.5	1680.0
47.5°	1496.5	1520.1	1578.0	1592.4	1595.4
50°	1402.8	1432.5	1490.4	1507.9	1510.2
52.5°	1310.6	1342.6	1402.0	1414.2	1416.5
55°	1216.9	1245.9	1310.6	1319.8	1316.0
57.5°	1118.7	1153.8	1213.2	1217.7	1221.5
60°	1022.7	1053.2	1111.1	1117.2	1108.8
62.5°	918.4	949.7	1009.1	1010.6	1003.7
65°	819.4	843.0	903.2	901.7	897.1
67.5°	715.8	744.8	789.0	790.5	786.7
70°	619.1	638.9	681.6	682.4	673.2
72.5°	514.8	536.1	570.4	565.8	563.6
75°	413.5	430.3	457.0	460.0	452.4
77.5°	320.6	332.8	352.6	350.3	341.9
80°	225.4	235.3	249.8	246.8	237.6
82.5°	143.9	150.1	159.2	155.4	151.5
85°	78.5	79.2	79.9	79.2	76.9
87.5°	28.9	29.7	29.7	28.9	26.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)